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A-802FH SHADE STRUCTURE

PLUMBING
P-001FH PLUMBING LEGEND, INDEX, AND NOTES
P-002FH PLUMBING SCHEDULES
P-101FH FIELD HOUSE PLUMBING PLANS
P-201FH FIELD HOUSE PLUMBING RISER DIAGRAMS
P-501FH FIELD HOUSE PLUMBING DETAILS

MECHANICAL
M-001FH MECHANICAL LEGEND AND NOTES
M-002FH MECHANICAL SCHEDULES
M-101FH FIELD HOUSE MECHANICAL PLAN

ELECTRICAL
E-001FH ELECTRICAL LEGEND AND NOTES
E-002FH ELECTRICAL NOTES
E-010FH ELECTRICAL SITE PLAN
E-101FH BASEBALL FIELD ELECTRICAL PLAN AND BALLFIELD FIXTURE SCHEDULE
E-102FH SOFTBALL FIELD ELECTRICAL PLAN
E-103FH FOOTBALL FIELD ELECTRICAL PLAN
E-111FH FIELD HOUSE ELECTRICAL PLANS
E-601FH ELECTRICAL DETAILS
E-602FH ELECTRICAL DETAILS
E-701FH ELECTRICAL DIAGRAMS AND PANEL SCHEDULES
E-801FH ELECTRICAL SCHEDULES

TECHNOLOGY
T-001FH TECHNOLOGY LEGEND AND NOTES
T-010FH TECHNOLOGY SITE PLAN
T-101FH FIELD HOUSE TECHNOLOGY PLANS
T-501FH TECHNOLOGY DETAILS
Grand total: 39

PROJECT TEAM

Brooke Matthews _____
Superintendent

Steve Matthews _____
Maintenance Director

CIVIL ENGINEER:
Timmons Group
5410 Trinity Road, Suite 102
Raleigh, North Carolina 27607
Telephone: 919-866-4938

STRUCTURAL ENGINEER:
Bennett & Pless
5430 Wade Park Blvd., Suite 400
Raleigh, North Carolina 27607
Telephone: 919-832-5587

FOOD SERVICE DESIGNER:
Foodesign Associates
220 N Ames Street Suite 101
Matthews, NC 28105
Telephone: 704-546-6151

PLUMBING/MECHANICAL/ ELECTRICAL ENGINEER/TECH.
Optima Engineering, PA
434 Fayetteville Street, Suite 2450
Raleigh, NC 27601
Telephone: 919- 926-2200

FIRE PROTECTION/FIRE ALARM
Optima Engineering, PA
434 Fayetteville Street, Suite 2450
Raleigh, NC 27601
Telephone: 919- 926-2200

NOTICE TO CONTRACTOR:
All construction must comply with current NC Building Codes and is subject to field inspection and verification.
Reviewed for Code Compliance
07/11/2025
Harnett COUNTY NORTH CAROLINA

HARNETT COUNTY SCHOOLS
FLATWOODS MIDDLE SCHOOL
3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

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PROJECT NUMBER: 02208.000

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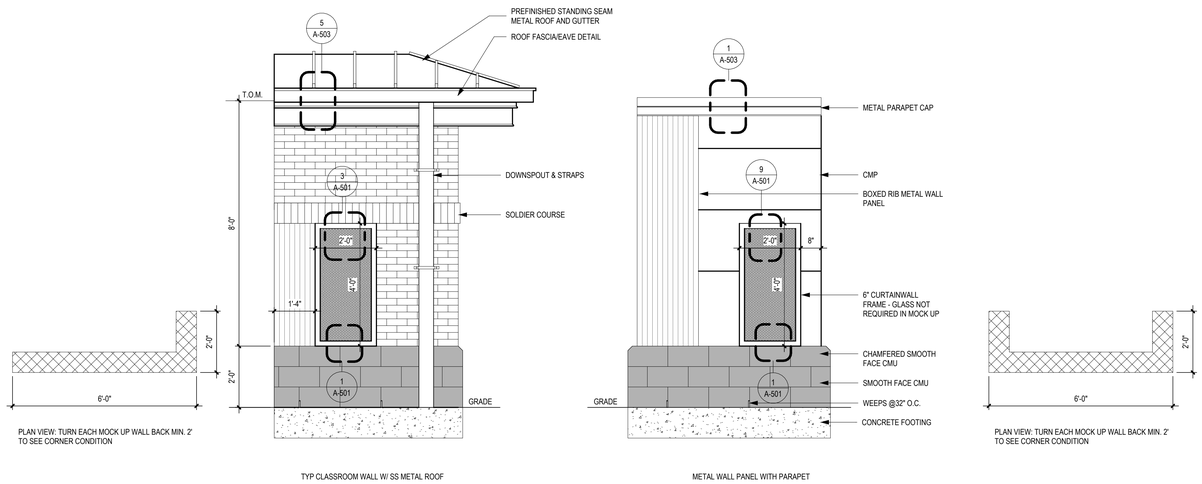
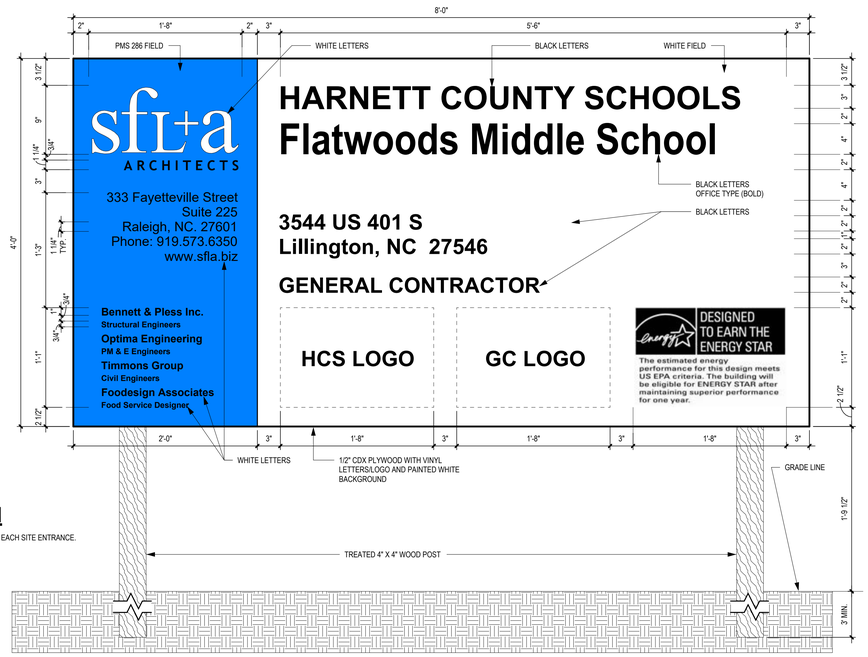


1) LOCATE MOCKUP PANEL SO EXTERIOR FACE IS IN THE SUNLIGHT
2) BRACE MOCK UP PANEL SUFFICIENTLY TO KEEP IT FROM FALLING OVER
3) COORDINATE MOCK UP PANEL WITH ACTUAL BUILDING ELEVATION FOR BASE, FIELD AND ACCENT BANDS

2 G-001 MOCK UP WALL DETAIL

SCALE: 1/2" = 1'-0"



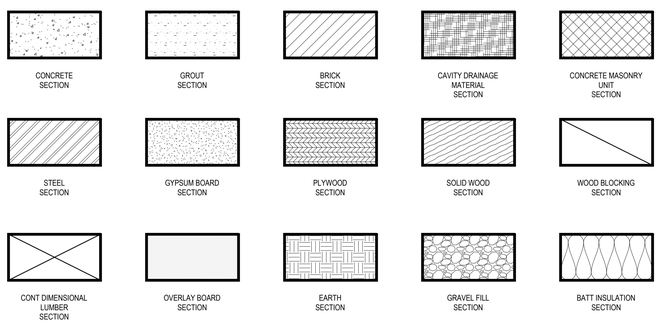
PROJECT SIGN

GC TO PROVIDE TWO ON SITE. ONE AT EACH SITE ENTRANCE.

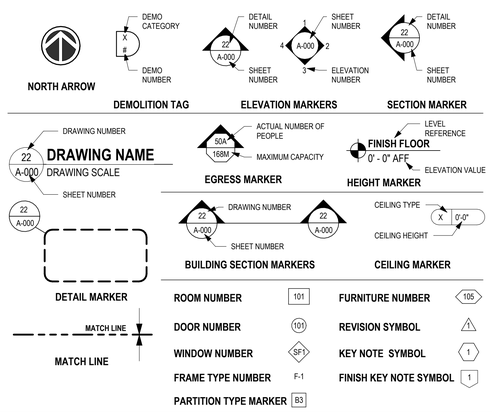
ABBREVIATIONS

A/C	AIR CONDITIONING
AB	ANCHOR BOLT
AD	AREA DRAIN
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
AMP	AMPERE
APPROX	APPROXIMATE
ARCH	ARCHITECT (URAL)
AUTO	AUTOMATIC
BB	BULLETIN BOARD
BBRG	BEAM BEARING
BD	BOARD
BFF	BELOW FINISHED FLOOR
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK (ING)
BM	BENCH MARK
BOD	BOTTOM OF DECK
BTM	BOTTOM
BPL	BEARING PLATE
BRG	BEARING
BSMT	BASEMENT
BTW	BETWEEN
BUR	BUILT-UP ROOFING
BW	BOTH WAYS
CB	CATCH BASIN
CAB	CABINET
CEM	CEMENT
CER	CERAMIC
CF	CUBIC FOOT
CI	CAST IRON
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLOS	CLOSET
CLR	CLEAR (ANCE)
CMP	COMPOSITE METAL PANEL
CMT	CERAMIC MOSAIC (TILE)
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONTR	CONTRACT (OR)
CORR	CORRIDOR
CPT	CARPET (ED)
CSMT	CASEMENT
CT	CERAMIC TILE
CTR	CENTER
CY	CUBIC YARD
DEMO	DEMOLISH, DEMOLITION
DET	DETAIL
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIAM	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DL	DEAD LOAD
DM	DECORATIVE MASONRY
DPR	DAMPER
DR	DOOR
DS	DOWNSPOUT
DT	DRAIN TILE
DWG	DRAWING
E	EAST
EA	EACH
EC	ELECTRICAL CONTRACTOR
EJ	EXPANSION JOINT
ELEC	ELECTRIC
ELEV	ELEVATION
EMER	EMERGENCY
ENCL	ENCLOSE (URE)
ENG	ENGINEER (ING)
EOD	EMERGENCY OVERFLOW DRAIN
EP	ELECTRIC PANEL
EQ	EQUAL
EQP	EQUIPMENT
EST	ESTIMATE
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FA	FIRE ALARM
FB	FACE BRICK
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FFE	FINISH FLOOR ELEVATION
FHC	FIRE HOSE CABINET
FIN	FINISH (ED)
FLR	FLOOR (ING)
FLUOR	FLUORESCENT
FLEX	FLEXIBLE
FOB	FACE OF BRICK
FOGB	FACE OF GYPSUM BOARD
FP	FIREPROOF
FR	FRAME (D)
FRMG	FRAMING
FRT	FIRE-RETARDANT
FT	FOOT / FEET
FTG	FOOTING
FUR	FURRED (ING)
GA	GAGE, GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GBL	GLASS BLOCK
GC	GENERAL CONTRACT (OR)
GCMU	GLAZED CONC. MASONRY UNIT
GF	GROUND FACE
GFRC	GLASS FIBER RE. CONC.
GL	GLASS, GLAZING
GP	GALVANIZED PIPE
GYP	GYPSUM
GWB	GYPSUM WALL BOARD
HB	HOSE BIBB
HC	HOLLOW CORE
HD	HEAVY DUTY
HDR	HEADER
HDW	HARDWARE
HM	HOLLOW METAL
HOR	HORIZONTAL JOINT REINFORCEMENT
HJT	
HT	HEIGHT
HTG	HEATING
HWD	HARDWOOD
HWH	HOT WATER HEATER
HVAC	HEATING / VENTILATING / A/C
ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUDE (D), (ING)
INT	INTERIOR
INV	INVERT
IWB	INTERACTIVE WHITE BOARD
JAN	JANITOR
JC	JANITOR'S CLOSET
JT	JOINT
JST	JOIST
KD	KNOCK DOWN
KIT	KITCHEN
KPL	KICK PLATE
L	LENGTH
LAB	LABORATORY
LAD	LADDER
LAV	LAVATORY
LB	LAG BOLT
LBL	LABEL
LBS	POUND (S)
LH	LEFT HAND
LT	LIGHT
LW	LIGHTWEIGHT
LWC	LIGHTWEIGHT CONCRETE
LVL	LAMINATED VENEER LUMBER
MAS	MASONRY
MAT	MATERIAL (S)
MAX	MAXIMUM
MB	MARKER BOARD
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MED	MEDIUM
MFR	MANUFACTURE (R)
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MH	MANHOLE
MEMB	MEMBRANE
MO	MASONRY OPENING
MR	MOISTURE RESISTANT
MUL	MULLION
MTL	METAL
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPG	OPENING
OPP	OPPOSITE
OPPH	OPPOSITE HAND
OS	OVERFLOW SCUPPER
PAR	PARALLEL
PBD	PARTICLE BOARD
PC	PLUMBING CONTRACTOR
PCF	POUNDS PER CUBIC FOOT
PCT	PORCELAIN CERAMIC TILE
PERF	PERFORATED
PERIM	PERIMETER
PG	PLATE GLASS
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLF	POUNDS PER LINEAL FOOT
PT	PRESSURE TREATED
PRV	POWER ROOF VENT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PWD	PLYWOOD
QT	QUARRY TILE
R	RISER
RA	RETURN AIR
RAD	RADIUS
RB	RUBBER BASE
RT	RUBBER TILE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REIN	REINFORCE (D), (ING)
REF	REFERENCE
REFR	REFRIGERATOR
REG	REGISTER
REQ	REQUIRED
RET	RETURN
REV	REVISION (S), REVISED
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
S	SOUTH
SAP	SUSPENDED ACOUSTICAL PANELS
SB	SPLASH BLOCK
SC	SOLID CORE
SCH	SCHEDULE
SD	STORM DRAIN
SEC	SECTION
SF	STOREFRONT
SIM	SIMILAR
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SP	SOUNDPROOF
SPKR	SPEAKER
SQ	SQUARE
SS	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STR	STRUCTURAL
SUS	SUSPENDED
SYM	SYMMETRICAL
SYS	SYSTEM
T	TREAD
T&G	TONGUE AND GROOVE
TB	TACK BOARD
TEL	TELEPHONE
TG	TEMPERED GLASS
THR	THRESHOLD
TP	TOILET PARTITION
TOB	TOP OF BEAM
TOF	TOP OF FOOTING
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TS	TACK STRIP
TTD	TOILET TISSUE DISPENSER
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORY
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
US	UTILITY SHELF
V	VOLT
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEN	VENEER
VIF	VERIFY IN FIELD
VR	VAPOR RETARDER
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	WEST
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
WG	WIRE GLASS
WH	WALL HUNG
WI	WROUGHT IRON
WM	WIRE MESH
W/O	WITHOUT
WP	WATERPROOFING
WT	WEIGHT
WWF	WELDED WIRE FABRIC

SYMBOLS LEGEND



KEY SYMBOLS LEGEND



GENERAL NOTES

1. WALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF METAL STUD, FACE OF STEEL OR CENTERLINE & STEEL COLUMN, UNLESS OTHERWISE NOTED. DETERMINE LOCATION OF WALLS NOT DIMENSIONED BY THEIR RELATION TO ADJACENT DIMENSIONED WALLS AND COLUMNS.
2. ALL EXTERIOR SIDEWALKS SHALL SLOPE AWAY FROM THE BUILDING AT 1/4" PER FOOT.
3. MAINTAIN INTEGRITY OF ACOUSTIC WALLS AND CEILINGS AT ALL WALL PENETRATIONS AND EQUIPMENT RECESSES.
4. ALL CERAMIC TILE TO HAVE CONTROL JOINTS THAT ALIGN WITH CONTROL JOINTS IN CONCRETE SLAB.
5. THERE SHALL BE NO PENETRATIONS IN THROUGH WALL FLASHING.
6. DOOR JAMB FROM INTERSECTING WALLS: STUD 6"/MASONRY 4" TYPICAL UNLESS OTHERWISE NOTED.
7. CONTRACT SHALL AVOID THE USE OF DISSIMILAR METALS IN CONTACT WITH ONE ANOTHER AS MUCH AS POSSIBLE AND SHALL PROVIDE FELTS, BOND BREAKERS, TAPE, OR OTHER APPLICABLE MATERIAL SEPARATION WHERE SUCH CONTACT IS UNAVOIDABLE.

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NORTH CAROLINA
RALEIGH
11/8/24

CONSTRUCTION DOCUMENTS

HARNETT COUNTY SCHOOLS
FLATWOODS MIDDLE SCHOOL
3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

ISSUE DATE: 11/08/24
PROJECT #: 02208.000
DRAWN BY: Author
CHECKED BY: Checker

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GENERAL NOTES, ABBREVIATIONS & LEGENDS

G-001

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2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Flatwoods Middle School
Address: 3544 US 401 S, Lillington, NC Zip Code: 27546
Owner/Authorized Agent: Harnett County Schools Phone # (910) 893-8151
E-Mail: wmatthews@harnett.k12.nc.us
Owned By: County
Code Enforcement Jurisdiction: County

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	SfL+a	Robert W. Ferris	6184	(919)573-6350	rferris@sfla.biz
Civil	Timmons Group	Will Altman	045892	(919) 866-4938	William.Altman@timmons.com
Electrical	Optima Engineering	Morgan Gunter	048210	(919)926-2200	mgunter@optimaengineering.com
Fire Alarm	Optima Engineering	Morgan Gunter	048210	(919)926-2200	mgunter@optimaengineering.com
Plumbing	Optima Engineering	Daniel Revilla	043866	(919)926-2200	drevilla@optimaengineering.com
Mechanical	Optima Engineering	Thomas Landen	040316	(919)926-2200	dlanden@optimaengineering.com
Sprinkler-Standpipe	Optima Engineering	Daniel Revilla	043866	(919)926-2200	drevilla@optimaengineering.com
Structural	Bennett & Pless	Timothy Hilton	037412	(919)832-5587	thilton@bennett-pless.com
Retaining Walls >5' High				( )	
Other				( )	

("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: New Building
2018 NC EXISTING BUILDING CODE: N/A N/A N/A
CONSTRUCTED: (date) _____ **CURRENT OCCUPANCY(S)** (Ch. 3): _____
RENOVATED: (date) _____ **PROPOSED OCCUPANCY(S)** (Ch. 3): _____
RISK CATEGORY (Table 1604.5): **Current:** III **Proposed:** Select one

BASIC BUILDING DATA
Construction Type: II-B
Sprinklers: Yes NFPA 13
Standpipes: No
Primary Fire District: No **Flood Hazard Area:** No
Special Inspections Required: Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

Gross Building Area:

FLOOR	BLDG 1	BLDG 2	BLDG 3	BLDG 4	BLDG 5	SUBTOTAL
1st Floor	7,781	55,361	12,730	21,985	25,843	123,700
2nd Floor	-	5,445	-	-	24,885	30,330
TOTAL						154,030

ALLOWABLE AREA

Primary Occupancy Classification(s): Educational
Accessory Occupancy Classification(s): Business (administration area), Storage S-2
Incidental Uses (Table 509): N/A
Special Uses (Chapter 4 – List Code Sections): 410 Stage
Special Provisions: (Chapter 5 – List Code Sections):
Mixed Occupancy: No Separation: Select one Exception: N/A
Select one

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

$$___ + ___ + \ldots = ___ \leq 1.00$$

BUILDING NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1 (And)	Education	7,781	58,000	NOT USED	58,000
2 (100-300)	Education	55,361	43,500	19,376	74,737
2 (600 cellab.)	Education	5,445	43,500	NOT USED	43,500
3 (Gym)	Education	12,730	58,000	NOT USED	58,000
4	Education	21,985	58,000	NOT USED	58,000
5 (500)	Education	25,843	43,500	27,840	71,340
5 (600 wing classrooms on 2nd floor)	Education	24,885	43,500	NOT USED	43,500

Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = 30' (F)
b. Total Building Perimeter = 1384 (P)
c. Ratio (F/P) = .599 (F/P)
d. W = Minimum width of public way = 30' (W)
e. Percent of frontage increase $I_f = 100(F/P - 0.25) \times W/30 = 349$ (%)

[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
[4] The maximum area of open parking garages must comply with Table 406.5.4.
[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE [1]
Building Height in Feet (Table 504.3) [2]	75'	41'	
Building Height in Stories (Table 504.4) [3]	3	2	

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
[2] The maximum height of air traffic control towers must comply with Table 412.3.1.
[3] The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/_____* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses							
Bearing Walls							
Exterior							
North	30	0	0				
East	30	0	0				
West	30	0	0				
South	30	0	0				
Interior		0	0				
Nonbearing Walls and Partitions							
Exterior walls							
North		n/a					
East		n/a					
West		n/a					
South		n/a					
Interior walls and partitions		0	0				
Floor Construction Including supporting beams and joists		0	0				
Floor Ceiling Assembly		0	0				
Columns Supporting Floors			0				
Roof Construction, including supporting beams and joists		0	0				
Roof Ceiling Assembly		0	0				
Columns Supporting Roof		0	0				
Shaft Enclosures - Exit		1	1	2-G-003	UL U905		
Shaft Enclosures - Other							
Corridor Separation							
Occupancy/Fire Barrier Separation							
Party/Fire Wall Separation		2	2-706.4	1-G-003	UL U905		
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation		2	2		U905/U419		

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
30'-0" min	NL	NL	
Firewall	NP	0	0

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: Yes
Exit Signs: Yes
Fire Alarm: Yes
Emergency Voice/Alarm System: Yes
Smoke Detection Systems: Yes
Carbon Monoxide Detection: No

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: **G-111 and G-112**

- [x] Fire and/or smoke rated wall locations (Chapter 7)
- [x] Assumed and real property line locations (if not on the site plan)
- [x] Exterior wall opening area with respect to distance to assumed property lines (705.8)
- [x] Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.2)
- [x] Occupant loads for each area
- [x] Exit access travel distances (1017)
- [x] Common path of travel distances (1006.2.1 & 2006.3.2(1))
- [x] Dead end lengths (1020.4)
- [x] Clear exit widths for each exit door
- [x] Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
- [x] Actual occupant load for each exit door
- [ ] A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation and supporting construction for a fire barrier/fire partition/smoke barrier.
- [x] Location of doors with panic hardware (1010.1.10)
- [ ] Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
- [x] Location of doors with electromagnetic egress locks (1010.1.9.9)
- [x] Location of doors equipped with hold-open devices
- [ ] Location of emergency escape windows (1030)
- [x] The square footage of each fire area (202)
- [ ] The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
- [ ] Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS
(SECTION 1107)

UNIT CLASSIFICATION	TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED		TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	96" SPACES	132" SPACES	
PARKING AREA	240	437	8	3	11
TOTAL	240	437	8	3	11

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATER CLOSETS			URINALS	LAVATORIES			SHOWERS / TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
STAFF	REQ'D	1	3	0	0	1	1	0	0	0	0
	PROV.	4	4	0	0	4	4	0	2	0	0
STUDENT	REQ'D	11	35	1	21	17	17	1	0	16	0
	PROV.	16	37	1	21	18	18	1	4	12	5

* Section 2902.9 &NCBC 2018)- Fixtures in group toilet facilities provided for classroom areas may be used toward satisfying the total number of required fixtures for gymnasium, cafeterias, auditoriums provide that such facilities are located w/in 200 feet from space and cannot be locked off from access during after-school-hours use of the gymnasium, cafeteria, or auditorium.

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

NCDOI, NCDPI, Harnett County Health Department, NC Department of Labor, NC Department of Transportation

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum, and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.
Existing building envelope complies with code: Select one

Exempt Building: Select one Provide code or statutory reference:

Climate Zone: 4A **(Harnett County)**

Method of Compliance: Energy Code - Prescriptive
(If "Other" specify source here)

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
Description of assembly: Standing Seam metal roof over 5.2" rigid insulation over 1-1/2" metal decking
U-Value of total assembly: .037
R-Value of insulation: R-30
Skylights in each assembly: N/A
U-Value of skylight: N/A
total square footage of skylights in each assembly: N/A

Exterior Walls (each assembly)
Description of assembly: 4" masonry veneer w/ 1-3/8" air space over 3" foamed-in-place closed cell insulation over 8" or 12" CMU
U-Value of total assembly: .045
R-Value of insulation: R-19ci
Openings (windows or doors with glazing): Insulated glass in aluminum frames
U-Value of assembly: E_W_S – SunGuard SNX 51/23_N – SunGuard SN54
Solar heat gain coefficient: 0.16/0.28
projection factor: 6%
Door R-Values: R-8

Walls below grade (each assembly)
Description of assembly: 4" solid grouted masonry w/ 4-3/8" rigid insulation over 8" or 12" solid grouted CMU
U-Value of total assembly: 0.23
R-Value of insulation: R-27

Floors over unconditioned space (each assembly)
Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of insulation: N/A

Floors slab on grade
Description of assembly: 4" concrete w/ WWF over 10 mil vapor barrier over 4" granular fill on compacted fill
U-Value of total assembly: 0.79
R-Value of insulation: R-15
Horizontal/vertical requirement: 24"
slab heated: No

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (I_s) 1.1
Seismic (I_E) 1.25

Live Loads: Roof 20 psf
Mezzanine 150 psf
Floor 60 psf

Ground Snow Load: 10 psf

Wind Load: Ultimate Wind Speed 127 mph (ASCE-7)
Exposure Category C

SEISMIC DESIGN CATEGORY: B
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) III
Spectral Response Acceleration S_s: 18.7 %g S_1: 8.7 %g
Site Classification (ASCE 7) C
Data Source: Field Test
Basic structural system Bearing Wall
Analysis Procedure: Equivalent Lateral Force
Architectural, Mechanical, Components anchored? No

LATERAL DESIGN CONTROL: Select one SEISMIC

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) 2,000 psf
Pile size, type, and capacity: N/A

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb:
summer dry bulb:

Interior design conditions
winter dry bulb:
summer dry bulb:
relative humidity:

Building heating load:

Building cooling load:

Mechanical Spacing Conditioning System
Unitary
description of unit:
heating efficiency:
cooling efficiency:
size category of unit:
Boiler
Size category. If oversized, state reason.:
Chiller
Size category. If oversized, state reason.:

List equipment efficiencies:

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Select one

Lighting schedule (each fixture type)
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole building or space by space)
total exterior wattage specified vs. allowed

Additional Efficiency Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)
- [ ] C406.2 More Efficient HVAC Equipment Performance
- [ ] C406.3 Reduced Lighting Power Density
- [ ] C406.4 Enhanced Digital Lighting Controls
- [ ] C406.5 On-Site Renewable Energy
- [ ] C406.6 Dedicated Outdoor Air System
- [ ] C406.7 Reduced Energy Use in Service Water Heating

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CONSTRUCTION DOCUMENTS

HARNETT COUNTY SCHOOLS
FLATWOODS MIDDLE SCHOOL
3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

ISSUE DATE: 11/08/24
PROJECT #: 02208.000
DRAWN BY: Author
CHECKED BY: Checker

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BUILDING CODE SUMMARY-SCHOOL

G-002

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ADA AND LEGAL DISCLAIMER: This document is intended to comply with the requirements of the Americans with Disabilities Act (ADA). However architects and engineers are not licensed to interpret laws or give advice concerning laws. The owner should have this document reviewed by his attorney to determine if it complies with ADA and other laws.

TOP OF RATED WALL

ONLINE CERTIFICATIONS DIRECTORY

System No. HW-D-0098
XHBN.HW-D-0098
Joint Systems

Page Bottom

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction is started to determine whether any code requirements or any additional requirements, the published information cannot always address every construction nuance encountered in the field.
- When Field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted in the Certification. Some manufacturers may require their technical service staff be present during installation of their products, accessories and/or each group of assemblies. The Guide Information includes specific cautionary concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHBN - Joint Systems

See General Information for Joint Systems

System No. HW-D-0098

June 04, 2010

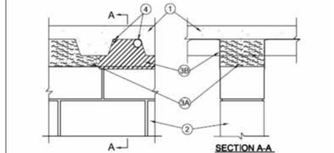
Assembly Rating — 1 and 2 Hr (See Item 4)

Nominal Joint Gap Width – 1 In.

L Rating At Ambient — Less Than 1 CFM/Lin Ft (See Item 4)

L Rating At 400°F — Less Than 1 CFM/Lin Ft (See Item 4)

Class II and III Movement Capabilities - 12.5% Compression or Extension



SECTION A-A

1. **Floor Assembly** — The fire rated Rolled steel units/concrete floor assembly shall be constructed of the materials and in a manner described in the individual 3799 or 9960 Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Steel Floor and Form Units*** — Max 3 in. (76 mm) deep galv steel fluted floor units.

B. **Concrete** — Min 2-1/2 in. (64 mm) thick reinforced concrete as measured from top plane of the floor units.

C. **Spray-Applied Fire Resistive Materials**** — (Optional)—(Not Shown)—Prior to the installation of the steel ceiling runners, Forming Material and Fill, Void or Cavity Material (Items 3A, 3A, 3B), the roof assembly shall be sprayed with the type and thickness of fire resistive material indicated in the individual FSK Series design.

SCP APPLIED TECHNOLOGIES INC — Type 996-to-HY

ISOLATEK INTERNATIONAL — Type 300

1A. **Roof Assembly** — (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:

A. **Steel Roof Deck** — Max 3 in. (76 mm) deep galv steel fluted roof deck.

B. **Roof Insulation** — Min 2-3/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units.

1B. **Roof Assembly** — As an alternate to Items 1 and 1A, a fire rated protected fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:

A. **Steel Roof Deck** — Max 3 in. (76 mm) deep galv steel fluted roof deck.

B. **Spray—Applied Fire Resistive Materials**** — (Not Shown) - Prior to the installation of the steel ceiling runners, Forming Material and Fill, Void or Cavity Material (Items 3A, 3A, 3B), the roof assembly shall be sprayed with the type and thickness of fire resistive material indicated in the individual FSK Series design.

2. **Wall Assembly** — Min 6 in. (152 mm) thick steel-reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) structural concrete, Wall may also be constructed of any UL Classified **Concrete Blocks***.

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

3. **Joint System — Max separation between bottom of floor or roof and top of wall at time of installation of joint system is 5 in (25 mm). The joint system is designed to accommodate a max 12.5 percent compression or extension from its installed width.** The joint system shall consist of the following:

A. **Forming Material** — Nom 4 pcf (64 kg/m³) mineral wool batt insulation compressed and firmly packed to fill the annular space between the top of the fire rated floor deck, approx 33 percent larger than the flutes. Press compressed and installed vertically into the flutes above the top of the wall. Additional pieces shall be installed on both sides of the wall assembly, such that batt sections are compressed over 50 percent of their thickness. Compressed batt sections are flush with both surfaces of wall. Adjoining lengths of batt to be tightly butted with butted seams spaced min 48 in. (1.22 m) apart along the length of the joint.

ROCK WOOL MANUFACTURING CO — Delta Board

A1. **Forming Material**—Plugs** — (Optional-Not Shown) Performed mineral wool plugs, formed to the shape of the fluted floor units, friction fit to completely fill the flutes above the ceiling runner. The plugs shall be flush with both wall surfaces. Additional forming material, described in Item 3A, to be used in conjunction with the plugs to fill the gap between the top of the wall and the bottom of the steel floor units.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP777 Speed Plugs

B. **FB, Void or Cavity Material*** — Min 5/8 in. (13.0 mm) wet thickness (min 1/16 in. or 1.6mm dry thickness) of fill material sprayed or troweled on each side of the wall to completely cover mineral wool forming material and to overlap a min of 1/2 in. (13 mm) onto wall and steel deck on both sides of wall. Where gaps exist between the bottom flange of steel floor units and the top of the wall, fill shall be applied a min of 1/2 in. (14 mm) and to overlap the spray-applied fire resistive material a min of 2 in. (51 mm) on both sides of wall. When through-penetrants (Item 4) are installed within flute, the fill material shall overlap a min 1/2 in. (13 mm) into the periphery of each penetrant, on both sides of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP672 Firestop Spray or CFS-SP WB Firestop Joint Spray.

4. **Through-Penetrants** — Max of two penetrants may be installed parallel with and within the flutes of the steel floor or roof deck. The annular space between penetrants and steel deck or spray-applied fire resistive material on steel deck shall be min 0 in. (point contact) to max 2 in. (51 mm) as measured between the outer surface of the pipe or tube and the bottom of the floor or wall assembly. The following types and sizes of penetrants may be used:

A. **Polyvinyl Chloride (PVC) Pipe** — Nom 3-1/2 in. (38 mm) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) piping systems.

B. **Rigid Nonmetallic Conduit** — Nom 3-1/2 in. (38 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).

C. **Steel Conduit or Tubing** — Nom 3-1/2 in. (13 mm) diam rigid steel conduit or steel electrical metallic tubing (EMT) installed in accordance with the National Electrical Code (NFPA No. 70).

When Through-Penetrant(s) installed in flute of steel deck, the hourly rating of the joint system is 1 hr.

When Through-Penetrant(s) installed in flute of steel deck, L Ratings do not apply.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2010-06-04

1, 2, 3, 4HR RATED CFS METAL WALL - NON-BEARING

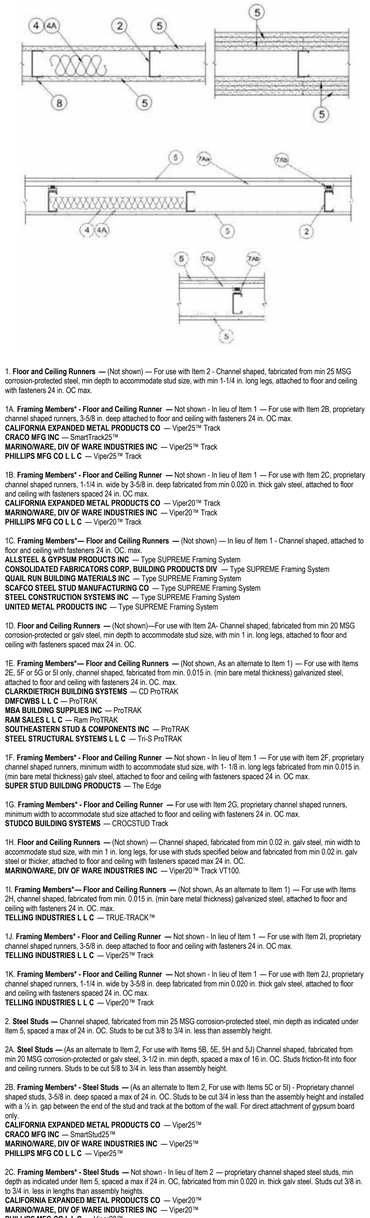
Fire-resistance Ratings - ANSI/UL 263

See General Information for Fire-resistance Ratings - ANSI/UL 263

Design No. U419

May 14, 2014

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5)



1. **Floor and Ceiling Runners** — (Not shown) — For use with Item 2 - Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. **Framing Members* - Floor and Ceiling Runner** — Not shown - In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™ Track
CRACO MFG INC — SmartStud25™
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track
PHILLIPS MFG CO L L C — Viper25™ Track

1B. **Framing Members* - Floor and Ceiling Runner** — Not shown - In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track
PHILLIPS MFG CO L L C — Viper20™ Track

1C. **Framing Members*— Floor and Ceiling Runners** — (Not shown) — In lieu of Item 1 - Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System
CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System
QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System
SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System
STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System
UNITED METAL PRODUCTS INC — Type SUPREME Framing System

1D. **Floor and Ceiling Runners** — (Not shown)—For use with Item 2A- Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1E. **Framing Members*— Floor and Ceiling Runners** — (Not shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.
CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK
DMFCWBS L L C — ProTRAK
MBA BUILDING SUPPLIES INC — ProTRAK
RAM SALES L L C — Ram ProTRAK
SOUTHEASTERN STUD & COMPONENTS INC — ProTRAK
STEEL STRUCTURAL SYSTEMS L L C — Tri-S ProTRAK

1F. **Framing Members* - Floor and Ceiling Runner** — Not shown - In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
SUPER STUD BUILDING PRODUCTS — The Edge

1G. **Framing Members* - Floor and Ceiling Runner** — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.
STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. **Floor and Ceiling Runners** — (Not shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.02 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100.

1I. **Framing Members*— Floor and Ceiling Runners** — (Not shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.
TELLING INDUSTRIES L L C — TRUE-TRACK™

1J. **Framing Members* - Floor and Ceiling Runner** — Not shown - In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.
TELLING INDUSTRIES L L C — Viper25™ Track

1K. **Framing Members* - Floor and Ceiling Runner** — Not shown - In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
TELLING INDUSTRIES L L C — Viper20™ Track

2. **Steel Studs** — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. **Steel Studs** — (As an alternate to Item 2, For use with Items 5B, 5E, 5H and 5J) Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2B. **Framing Members* - Steel Studs** — (As an alternate to Item 2, For use with Items 5C or 5I) - Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a ½ in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™
CRACO MFG INC — SmartStud25™
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™
PHILLIPS MFG CO L L C — Viper25™

2C. **Framing Members* - Steel Studs** — Not shown - In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™
PHILLIPS MFG CO L L C — Viper20™

2D. **Framing Members*— Steel Studs** — In lieu of Item 2 - Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System
CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System
QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System
SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System
STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System
UNITED METAL PRODUCTS INC — Type SUPREME Framing System

2E. **Framing Members*— Steel Studs** — (Not shown, As an alternate to Item 2) —For use with Items 5F or 5G or 5I only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD
DMFCWBS L L C — ProSTUD
MBA BUILDING SUPPLIES INC — ProSTUD
RAM SALES L L C — Ram ProSTUD
SOUTHEASTERN STUD & COMPONENTS INC — ProSTUD
STEEL STRUCTURAL SYSTEMS L L C — Tri-S ProSTUD

2F. **Framing Members* - Steel Studs** — Not shown - In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.
SUPER STUD BUILDING PRODUCTS — The Edge

2G. **Framing Members* - Steel Studs** — Not shown - In lieu of Item 2 - proprietary channel shaped studs, minimum width indicated under Item 5. Studs to be cut 3/8 to 3/4 in less than the assembly height.
STUDCO BUILDING SYSTEMS — CROCSTUD

2H. **Framing Members*— Steel Studs** — (Not shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
TELLING INDUSTRIES L L C — TRUE-STUD™

2I. **Framing Members* - Steel Studs** — (As an alternate to Item 2. For use with Items 5C or 5L) - Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a ½ in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.
TELLING INDUSTRIES L L C — Viper25™

2J. **Framing Members* - Metal Studs** — Not shown - In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights
TELLING INDUSTRIES L L C — Viper20™

3. **Wood Structural Panel Sheathing** — (Optional, For use with Item 5 Only) - (Not Shown) - 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from adjacent board joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, fastener lengths for gypsum panels increased by min. 1/2 in.

4. **Batts and Blankets*** — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

4A. **Batts and Blankets*** — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

5. **Gypsum Board* —** Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Item 2, 2C, 2D, 2F and 2G	No. of Layers & Thkns of Panel	MinThkns of Insulation(Item 4)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC, 3/4 in. thick Types IP-X3 or ULTRACODE
UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR ; 3/4 in. thick Types IP-X3 or ULTRACODE
USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE
When Item 7B, Steel Framing Members*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. **Gypsum Board* —** (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.
CGC INC — Type SHX.
UNITED STATES GYPSUM CO — Type FRX-G, SHX.
USG MEXICO S A DE C V — Type SHX.

5B. **Gypsum Board* —** (Not Shown) - As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or ½ in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 in. or ¼ in. may be used as alternate to all 5/8 in. or 1/2 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or ¼ in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).
RAY-BAR ENGINEERING CORP — Type RB-LBG

5C. **Gypsum Board* —** (For Use With Item 2B) Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.
CGC INC — Type SCX.
UNITED STATES GYPSUM CO — Type SCX, SGX.
USG MEXICO S A DE C V — Type SCX.

5D. **Gypsum Board* —** (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.
UNITED STATES GYPSUM CO — Type USGX.

5E. **Gypsum Board* —** (Not Shown) - (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco

5F. **Gypsum Board* —** (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.
UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX.

5G. **Gypsum Board* —** (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Item 2E	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR;, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE
UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR ; 3/4 in. thick Types IP-X3 or ULTRACODE
USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

5H. **Gypsum Board* —** (Not Shown) - (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

5I. **Gypsum Board* —** (As an alternate to Item 5) - Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.
CGC INC — Type ULX
UNITED STATES GYPSUM CO — Type ULX
USG MEXICO S A DE C V — Type ULX

5J. **Gypsum Board* —** (Not Shown) - (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

6. **Fasteners —** (Not shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. **Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

7. **Furring Channels —** (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A and 5E.

7A. **Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.
b. **Steel Framing Members* —** Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL INC — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

7B. **Framing Members* —** (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A and 5E.
b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 9 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.
KINETICS NOISE CONTROL INC — Type Isomax

7C. **Framing Members* —** (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.
b. **Steel Framing Members* —** Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PLITEQ INC — Type GENIECLIP

7D. **Steel Framing Members —** (Optional, Not Shown)* - Furring channels and resilient sound isolation clip as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item A. Side joint furring channels shall be attached to studs with RESILMOUNT Sound Isolation Clips - located approximately 2 in. from

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CLASSROOM WING 400
CLASSROOM WING 500 /600
FLATWOODS MIDDLE SCHOOL JETS
FLATWOODS MIDDLE SCHOOL JETS
GYM 307
STAGE 102C
TECH. 105A
VESTIBULE 105B
LOBBY C106
INSTRUMENTAL MUSIC 100
VOCAL MUSIC 101
DRAMA 102
ART 103
FAMILY & CONSUMER SCIENCES 104
STEM CLASSROOM 401
ES CS CLASSROOM 403
CORE CLASSROOM 402
CORE CLASSROOM 404
CORE CLASSROOM 405
CORE CLASSROOM 406
FLEX CLASSROOM 407
SCIENCE 408
SCIENCE 409
CORE CLASSROOM 410
CORE CLASSROOM 411
CORE CLASSROOM 412
CORE CLASSROOM 413
CORE CLASSROOM 414
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CORE CLASSROOM 416
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CORE CLASSROOM 419
CORE CLASSROOM 420
CORE CLASSROOM 421
COLLABORATION C402
RESOURCE 412
RESOURCE 413
RESOURCE 414
RESOURCE 415
RESOURCE 416
RESOURCE 417
RESOURCE 418
RESOURCE 419
RESOURCE 420
RESOURCE 421
TEACHER WORK ROOM 410
TEACHER WORK ROOM 508
ITINERANT TEACHER OFFICES 402
GREEN ROOM 104
STAGE STORAGE 102D
MEN DRESS 107
WOMEN DRESS 108
BOYS 109
GIRLS 110
CUST. 406
CUST. 407
CUST. 408
CUST. 409
CUST. 410
CUST. 411
CUST. 412
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1 G-102 **ROOM USE PLAN-SECOND FLOOR**
SCALE: 1" = 20'-0"

ROOM USE LEGEND

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- CLASSROOMS
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- TOILETS
- UTILITY, CIRC

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CONSTRUCTION DOCUMENTS

HARNETT COUNTY SCHOOLS

FLATWOODS MIDDLE SCHOOL

3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

ISSUE DATE: 11/08/24
PROJECT #: 02208.000
DRAWN BY: Author
CHECKED BY: Checker

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ROOM USE FLOOR PLAN

G-102

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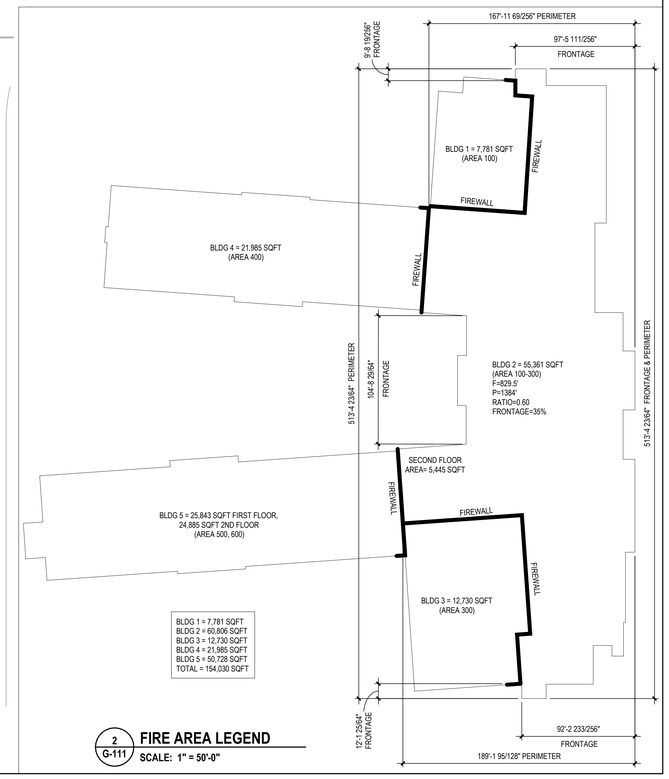
1 G-111 **FIRST FLOOR LIFE SAFETY PLAN**
SCALE: 1" = 20'-0"



2 G-111 **FIRE AREA LEGEND**
SCALE: 1" = 50'-0"

LIFE SAFETY LEGEND

SYMBOL	DESCRIPTION
	1 HR FIRE RATED
	2 HR FIRE RATED
20	DOOR FIRE RATING IN MINUTES
	DOOR WITH PANIC HARDWARE
1A / 7M	ACTUAL NUMBER OF OCCUPANTS EGRESSING THROUGH EXIT / MAXIMUM NUMBER OF OCCUPANTS ALLOWED THROUGH EXIT
FEC	FIRE EXTINGUISHER CABINET (250' TRAVEL DISTANCE MAX)
F	MANUAL FIRE ALARM PULL BOX
	EXIT SIGN (CEILING MOUNTED) / EXIT SIGN (WALL MOUNTED)
MHO	MAGNETIC HOLD OPEN
36DW	36" DOOR WIDTH NOMINAL = 33.5" CLEAR (223 OCCUPANTS PER DOOR AT .15)
42DW	42" DOOR WIDTH NOMINAL = 39.5" CLEAR (264 OCCUPANTS PER DOOR AT .15)
48DW	48" DOORS WIDTH NOMINAL = 45.5" CLEAR (302 OCCUPANTS PER DOOR AT .15)
72DW	(PAIR) 36" DOORS WIDTH NOMINAL = 68.5" CLEAR (456 OCCUPANTS PER DOOR AT .15)
84DW	(PAIR) 42" DOORS WIDTH NOMINAL = 80.5" CLEAR (536 OCCUPANTS PER DOOR AT .15)
96DW	(PAIR) 48" DOORS WIDTH NOMINAL = 92.5" CLEAR (616 OCCUPANTS PER DOOR AT .15)
108DW	(SET OF 3) 36" DOORS WIDTH NOMINAL = 104.5" CLEAR (696 OCCUPANTS PER DOOR AT .15)

LIFE SAFETY GENERAL NOTES:

1. SEE SHEET G-003 FOR UL DESIGNS
2. SEE SHEET A-010 & FLOOR PLANS FOR PARTITION TYPES.
3. DEDICATED FIRE EXTINGUISHERS SHALL BE PROVIDED IN THE FOLLOWING ROOMS: ELEVATOR EQUIPMENT ROOMS, MDF AND IDF ROOMS.

ROOM	TRAVEL DISTANCE
BLDG 1/AUDITORIUM 105	91' - 2"
BLDG 2/COLLAB 600	221' - 7"
BLDG 2/CONFERENCE 217	200' - 0"
BLDG 2/DRAMA 102	164' - 9"
BLDG 2/ES CS 403	206' - 7"
BLDG 2/HEALTH ROOM 317	245' - 1"
BLDG 2/MEDIA 223	180' - 6"
BLDG 4/CLASSROOM 416	147' - 5"
BLDG 4/SCIENCE 408	158' - 6"
BLDG 5/CLASSROOM 515	159' - 3"
BLDG 5/CLASSROOM 616	214' - 4"
BLDG 5/SCIENCE 504	181' - 8"
BLDG 5/SCIENCE 608	189' - 1"

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REGISTERED
LANDSCAPE
ARCHITECT
RALEIGH

CONSTRUCTION DOCUMENTS

HARNETT COUNTY SCHOOLS

FLATWOODS MIDDLE SCHOOL

3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description
1	12-06-24	NCDOI CD

ISSUE DATE: 11/08/24
PROJECT #: 02208.000
DRAWN BY: Author
CHECKED BY: Checker

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LIFE SAFETY PLAN-FIRST FLOOR

G-111

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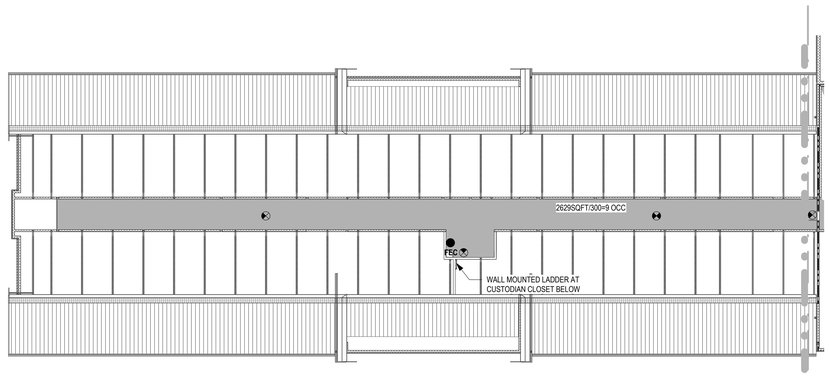


1 G-112 **MECH PLATFORM- AREA 400 LIFE SAFETY PLAN**

SCALE: 1" = 20'-0"

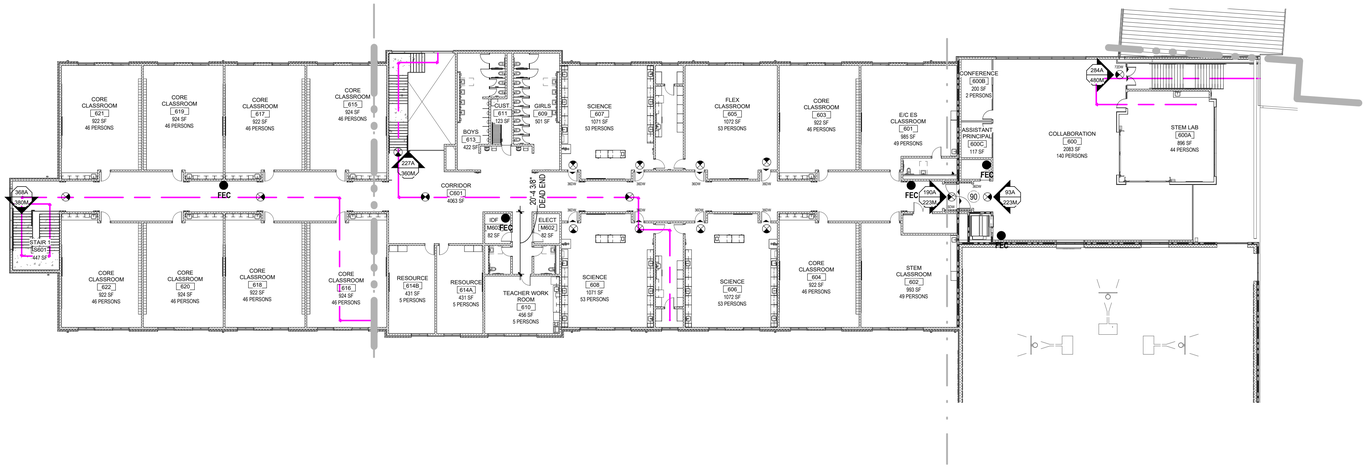
ROOM	TRAVEL DISTANCE
BLDG 1/AUDITORIUM 105	91' - 2"
BLDG 2/COLLAB 600	221' - 7"
BLDG 2/CONFERENCE 217	200' - 0"
BLDG 2/DRAMA 102	164' - 9"
BLDG 2/ES CS 403	206' - 7"
BLDG 2/HEALTH ROOM 317	245' - 1"
BLDG 2/MEDIA 223	180' - 6"
BLDG 4/CLASSROOM 416	147' - 5"
BLDG 4/SCIENCE 408	158' - 6"
BLDG 5/CLASSROOM 515	159' - 3"
BLDG 5/CLASSROOM 616	214' - 4"
BLDG 5/SCIENCE 504	181' - 8"
BLDG 5/SCIENCE 608	189' - 1"

LIFE SAFETY LEGEND

SYMBOL	DESCRIPTION
	1 HR FIRE RATED
	2 HR FIRE RATED
20	DOOR FIRE RATING IN MINUTES
	DOOR WITH PANIC HARDWARE
1A / 1M	ACTUAL NUMBER OF OCCUPANTS EGRESSING THROUGH EXIT MAXIMUM NUMBER OF OCCUPANTS ALLOWED THROUGH EXIT
FEC	FIRE EXTINGUISHER CABINET (250' TRAVEL DISTANCE MAX)
F	MANUAL FIRE ALARM PULL BOX
	EXIT SIGN (CEILING MOUNTED) / EXIT SIGN (WALL MOUNTED)
MHO	MAGNETIC HOLD OPEN
36DW	36" DOOR WIDTH NOMINAL = 33.5" CLEAR (223 OCCUPANTS PER DOOR AT .15)
42DW	42" DOOR WIDTH NOMINAL = 39.5" CLEAR (264 OCCUPANTS PER DOOR AT .15)
48DW	48" DOORS WIDTH NOMINAL = 45.5" CLEAR (302 OCCUPANTS PER DOOR AT .15)
72DW	(PAIR) 36" DOORS WIDTH NOMINAL = 68.5" CLEAR (456 OCCUPANTS PER DOOR AT .15)
84DW	(PAIR) 42" DOORS WIDTH NOMINAL = 80.5" CLEAR (536 OCCUPANTS PER DOOR AT .15)
96DW	(PAIR) 48" DOORS WIDTH NOMINAL = 92.5" CLEAR (616 OCCUPANTS PER DOOR AT .15)
108DW	(SET OF 3) 36" DOORS WIDTH NOMINAL = 104.5" CLEAR (696 OCCUPANTS PER DOOR AT .15)

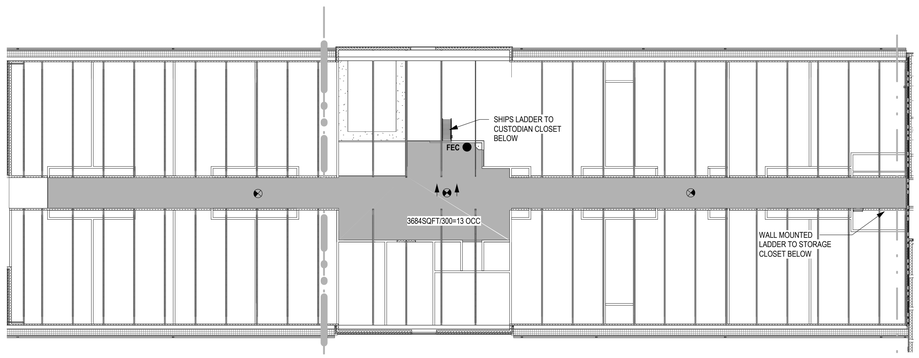
LIFE SAFETY GENERAL NOTES:

1. SEE SHEET G-003 FOR UL DESIGNS
2. SEE SHEET A-010 & FLOOR PLANS FOR PARTITION TYPES.
3. DEDICATED FIRE EXTINGUISHERS SHALL BE PROVIDED IN THE FOLLOWING ROOMS: ELEVATOR EQUIPMENT ROOMS, MDF AND IDF ROOMS.



2 G-112 **SECOND FLOOR LIFE SAFETY PLAN**

SCALE: 1" = 20'-0"



3 G-112 **MECH PLATFORM- AREA 600 LIFE SAFETY PLAN**

SCALE: 1" = 20'-0"

...Becoming the Leading Designer of High Performance Facilities in the Nation with a Specialty in Alternative Delivery Methods

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CERT. NO. 10678
NORTH CAROLINA
REGISTERED
RALEIGH

ROBERT W. FENTRESS
10678
NORTH CAROLINA
REGISTERED
ARCHITECT
RALEIGH

CONSTRUCTION DOCUMENTS

HARNETT COUNTY SCHOOLS

FLATWOODS MIDDLE SCHOOL

3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

ISSUE DATE: 11/08/24
PROJECT #: 02208.000
DRAWN BY: Author
CHECKED BY: Checker

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LIFE SAFETY PLAN-SECOND FLOOR & MECH PLATFORMS

G-112

Autodesk Docs://HCS Flatwoods MS/2208 HCS Flatwoods MS.rvt
12/13/2024 9:29:18 AM

CONSTRUCTION DOCUMENTS

FLATWOODS MIDDLE SCHOOL

3544 US 401 S, LILLINGTON, NORTH CAROLINA 27546

CONSULTANT CONTACTS:

OWNER
HARNETT COUNTY BOARD OF EDUCATION
STEVE MATTHEWS
DIRECTOR OF MAINTENANCE OPERATIONS
HARNETT COUNTY SCHOOLS
910-893-4804

ARCHITECT
ROBERT W. FERRIS, AIA, REFP, LEED AP
CEO/PRESIDENT
SFL+A ARCHITECTS
333 FAYETTEVILLE, SUITE 225
RALEIGH, NC 27601
919-573-6350

SITE ENGINEER/ LANDSCAPE ARCHITECT
TIMMONS GROUP
CONTACT: WILL ALTMAN, PE
5410 TRINITY ROAD, SUITE 102
RALEIGH, NC 27607
PHONE: 919-866-4938

SURVEYOR
TIMMONS GROUP
CONTACT: TERRY WESTENDORF, NCPLS
5410 TRINITY ROAD, SUITE 102
RALEIGH, NC 27607
PHONE: 984-255-2353

SITE DATA TABLE	
PROJECT ADDRESS	US 401 S, LILLINGTON, NC 27546
PIN #	0558-92-8764
DEED	BK 4062 PG 0586
JURISDICTION	HARNETT COUNTY
ZONING	RA-20R
SETBACKS	FRONT: 35' CORNER: 20' SIDE: 10' REAR: 25'
RIVER BASIN	CAPE FEAR
EXISTING USE	RESIDENTIAL / AGRICULTURAL DISTRICT
PROPOSED USE	MIDDLE SCHOOL
FLOOD ZONE	ZONE: AE REFERENCE NUMBER: 370328
CONSTRUCTION TYPE	TYPE II-B
EXISTING PARCEL AREA	96.7 AC
PROPOSED PARCEL AREA	96.7 AC
DISTURBED AREA	60.0 AC
EXISTING IMPERVIOUS SURFACE AREA	13,479 SF / 0.31 AC
PROPOSED IMPERVIOUS SURFACE AREA	564,010 SF/ 12.95 AC
PROPOSED % IMPERVIOUS	13.4%
VEHICLE PARKING SUMMARY: REQUIRED	5 SPACES PER CLASSROOM (48 CLASSROOMS) **=MINIMUM OF 240 PARKING SPACES REQUIRED**
VEHICLE PARKING SUMMARY: PROVIDED	BASE BID: 268 PARKING SPACES (INCLUDING 11 ADA SPACES) & 14 BUS PARKING SPACES ALTERNATE #2: 70 ADDITIONAL PARKING SPACES ALTERNATE #3: 99 ADDITIONAL PARKING SPACES
BUILDING SPRINKLED	YES
PROPOSED BUILDING SIZE:	157,213-SF

GENERAL NOTES:
1. ALL CONSTRUCTION SHALL CONFORM TO HARNETT COUNTY DESIGN AND CONSTRUCTION STANDARDS.
2. IF THERE IS A GEODETIC MONUMENT LOCATED ON THIS SITE, IT MUST BE PROTECTED OR IF RELOCATION IS NEEDED IT WILL BE THE RESPONSIBILITY OF THE DEVELOPER TO RELOCATE IT WITH SURVEY ACCURACY.
3. ALL NEW UTILITY LINES (POWER, CABLE, ETC.) MUST BE UNDERGROUND

VICINITY MAP
1" = 1000'

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C1.1	EXISTING CONDITIONS AND DEMOLITION PLAN
C1.2	EXISTING CONDITIONS AND DEMOLITION PLAN
C2.0	PHASE I EROSION CONTROL PLAN
C2.1	PHASE I EROSION CONTROL PLAN
C2.2	PHASE I EROSION CONTROL PLAN
C2.3	PHASE II EROSION CONTROL PLAN
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C3.5	UTILITY PLAN
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C3.8	UTILITY PROFILES
C4.0	GRADING PLAN
C4.1	GRADING PLAN
C4.2	STORMWATER PROFILES
C4.3	STORMWATER PROFILES
C4.4	STORMWATER PROFILES
C4.5	STORMWATER PROFILES
C4.6	STORMWATER COMPLIANCE PLAN
C4.7	SCM DETAIL SHEET POND A
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C4.9	O&M AGREEMENT
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C5.0	NOTES AND DETAILS
C5.1	NOTES AND DETAILS
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C5.3	NOTES AND DETAILS
C5.4	NOTES AND DETAILS
C5.5	NOTES AND DETAILS
C5.6	NOTES AND DETAILS
C5.7	NOTES AND DETAILS
C5.8	NOTES AND DETAILS
C5.9	NOTES AND DETAILS
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L1.0	PLANTING PLAN
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--	LIGHTING PLAN
--	LIGHTING PLAN-ALTERNATE

NORTH CAROLINA PROFESSIONAL SEAL 045892 ENGINEER William P. Altman 12-13-24

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Harnett County Schools
FLATWOODS MIDDLE SCHOOL
3544 US 401 S
Lillington, NC 27546

ENERGY STAR PARTNER

No.	Date	Description
1	12-06-24	NCDOI CD
2	12-13-24	CD REVISIONS
3	12-06-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24
PROJECT #: 63089
DRAWN BY: JG
CHECKED BY: WA

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COVER

C0.0

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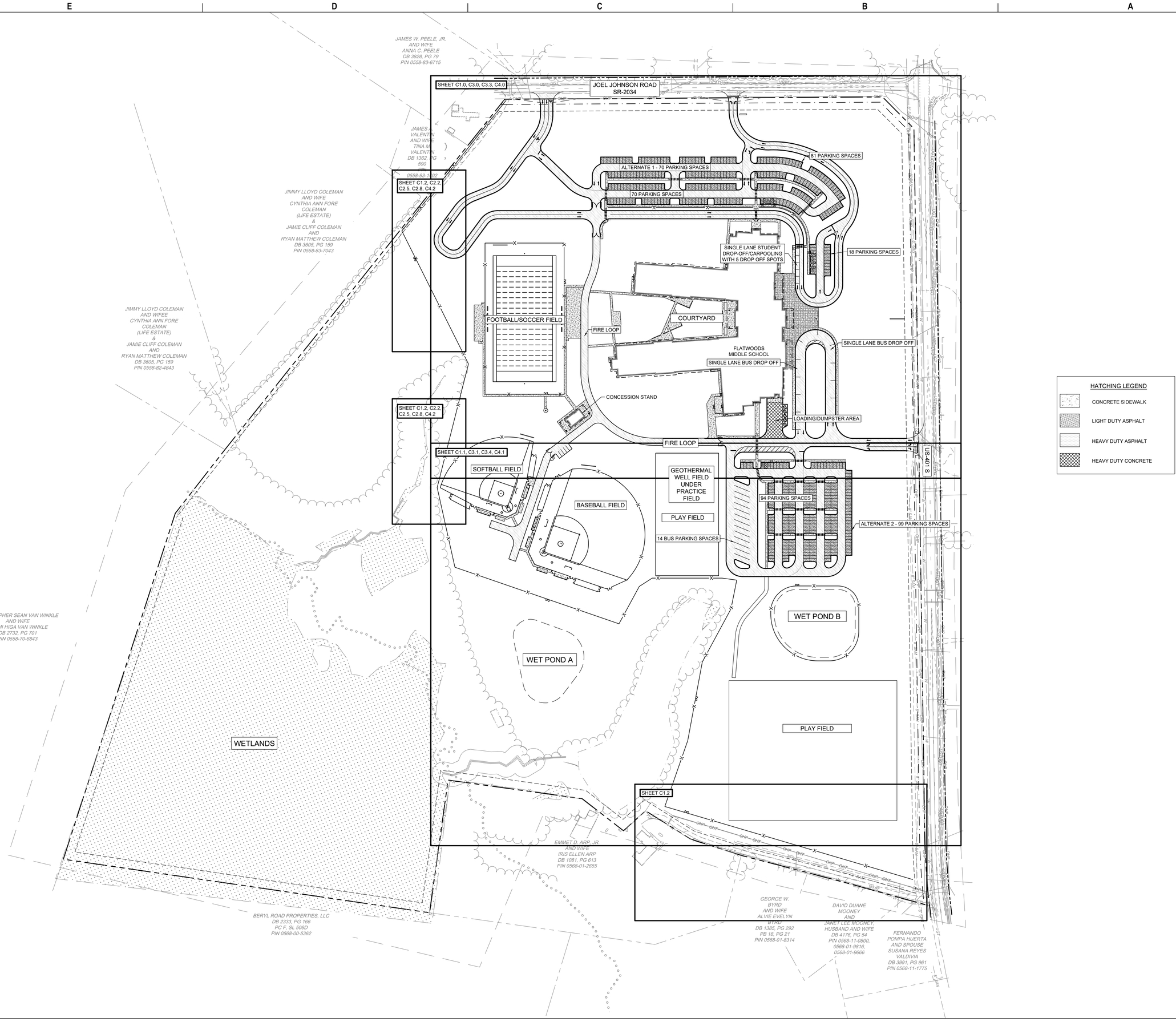

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KEY PLAN

C0.1

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E D C B A

5 4 3 2 1

JOEL JOHNSON ROAD
SR-2034

N68°13'53"E 1079.46'

15" RCP
INV=165.76

15" RCP
INV=165.97

18" RCP
INV=164.35

15" RCP
INV=164.28

Gravel Road

Wood Fence

ABOVE-GROUND SWIMMING POOL

11+12.18' - Existing Iron Rod on Property Line

9+33.45' - 0.45' SE of Property Line

MATCHLINE
SHEET C1.2

MATCHLINE
SHEET C1.1

EXISTING WETLAND

HARNETT COUNTY
BOARD OF EDUCATION
DB 4062, PG 586
PIN 0558-92-8764
PID 100568 0049
AREA: 96.72 Acres

NCSPCS
NAD 1983 (2011)
NORTH: 583,980.36 FEET
EAST: 2,060,366.59 FEET

SSMH
RIM=165.79
IN=150.64-8" PVC
OUT=150.60-8" PVC

SSMH
RIM=164.42
IN=149.84-8" PVC
OUT=149.80-8" PVC

18" RCP W/CONC
INV=161.37

18" RCP
INV=160.70

SSMH
RIM=163.83
IN=148.58-8" PVC
OUT=148.53-8" PVC

CLEAN UP OVERGROWTH AROUND THE PERIMETER OF ROADS. ENSURE EXISTING UTILITIES REMAIN ACTIVE FOR THE DURATION OF CONSTRUCTION. SEE SHEET C4.0 AND C4.1 FOR POWER POLES, MANHOLES, FIRE HYDRANTS, ETC. THAT MUST BE RAISED OR LOWERED. (TYP.)

DEMOLITION LEGEND

- REMOVE
- STABILIZE POND BANKS
- LOD — LIMITS OF WORK

DEMOLITION NOTES:

1. NOTIFY OWNER AND ARCHITECT IMMEDIATELY OF UTILITY SERVICE INTERRUPTIONS TO NEIGHBORING PROPERTIES.
2. UTILITIES ENCOUNTERED THAT ARE NOT INCLUDED WITHIN THE EXISTING CONDITIONS PLANS SHALL BE REMOVED OR RELOCATED PER THE OWNER, ARCHITECT AND UTILITY PROVIDERS DIRECTION.
3. ALL ITEMS WITHIN THE LIMITS OF DISTURBANCE REQUIRED TO BE REMOVED TO COMPLETE THE WORK SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL VISIT THE SITE TO CONFIRM EXISTING CONDITIONS PRIOR TO BIDDING.
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5. ALL TRASH AND MISCELLANEOUS DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANOR.
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7. OPEN BURNING OF TREES, LIMBS, STUMPS, AND CONSTRUCTION DEBRIS ASSOCIATED WITH THIS DEVELOPMENT IS PROHIBITED.
8. ALL EXISTING FIRE HYDRANTS TO REMAIN CLEAR AND OPERATIONAL DURING ALL PHASES OF CONSTRUCTION
9. ALL EXISTING OVERHEAD UTILITIES TO BE RELOCATED UNDERGROUND

LEGEND

NEW PROPERTY LINE	IPF - IRON PIPE FOUND
OLD LOT LINE	IRF - IRON ROD FOUND
LINE NOT SURVEYED	IRS- IRON ROD SET
FENCE	SANITARY MANHOLE
OVERHEAD POWER LINE	TELEPHONE PEDESTAL
PAINTED GAS LINE	CABLE TV PEDESTAL
PAINTED POWER LINE	SIGN
PAINTED TELEPHONE LINE	ELECTRIC METER
PAINTED WATER LINE	POWER POLE
PAINTED CABLE TV LINE	LIGHT POLE
UTILITY LINE	GAS TEST LOCATION
EASEMENT LINE	BOLLARD
RIGHT OF WAY LINE	MAILBOX
EDGE OF PAVEMENT	YARD LIGHT
GRAVEL ROAD	GUY

GENERAL NOTES:

1. ALL DISTANCES ARE HORIZONTAL GROUND, U.S. SURVEY FEET.
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7. ELEVATIONS ARE NAVD '88 DATUM.
8. WETLANDS WERE MARKED BY TIMMONS GROUP.
9. CONTRACTOR RESPONSIBLE FOR ALL DEMOLITION REQUIRED WITHIN THE LIMITS OF WORK SHOWN.

LEGEND

WETLAND

NAD 88

SCALE 1"=40'

0 40' 80'

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NORTH CAROLINA PROFESSIONAL SEAL 045892 ENGINEER William P. Allman 12-13-24

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Harnett County Schools

FLATWOODS MIDDLE SCHOOL

3544 US 401 S
Lillington, NC 27546

ENERGY STAR PARTNER

No.	Date	Description
1	12-06-24	NCDOI CD
2	12-13-24	CD REVISIONS
3	12-06-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24

PROJECT #: 63089
DRAWN BY: JG
CHECKED BY: WA

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EXISTING CONDITIONS AND DEMOLITION PLAN

C1.0

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LEGEND

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OLD LOT LINE	IRF - IRON ROD FOUND
LINE NOT SURVEYED	IRS- IRON ROD SET
FENCE	SANITARY MANHOLE
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PAINTED GAS LINE	CABLE TV PEDESTAL
PAINTED POWER LINE	SIGN
PAINTED TELEPHONE LINE	ELECTRIC METER
PAINTED WATER LINE	POWER POLE
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UTILITY LINE	GAS TEST LOCATION
EASEMENT LINE	BOLLARD
RIGHT OF WAY LINE	MAILBOX
EDGE OF PAVEMENT	YARD LIGHT
GRAVEL ROAD	GUY

DEMOLITION LEGEND

REMOVE

STABILIZE POND BANKS

LOD LIMITS OF WORK

LEGEND

WETLAND

NORTH CAROLINA PROFESSIONAL SEAL 045892 ENGINEER William P. Ammon 12-13-24

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EXISTING CONDITIONS AND DEMOLITION PLAN

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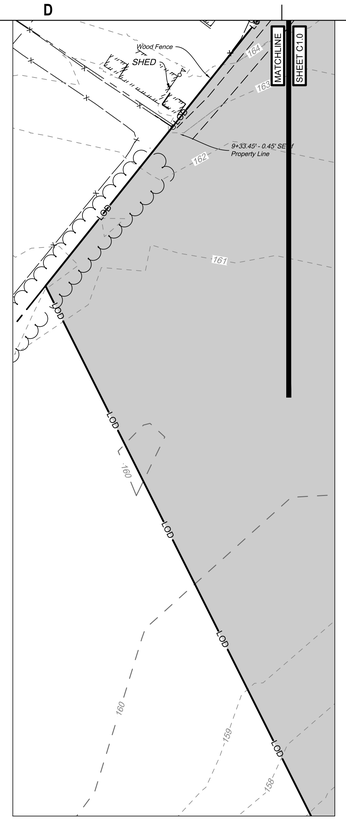

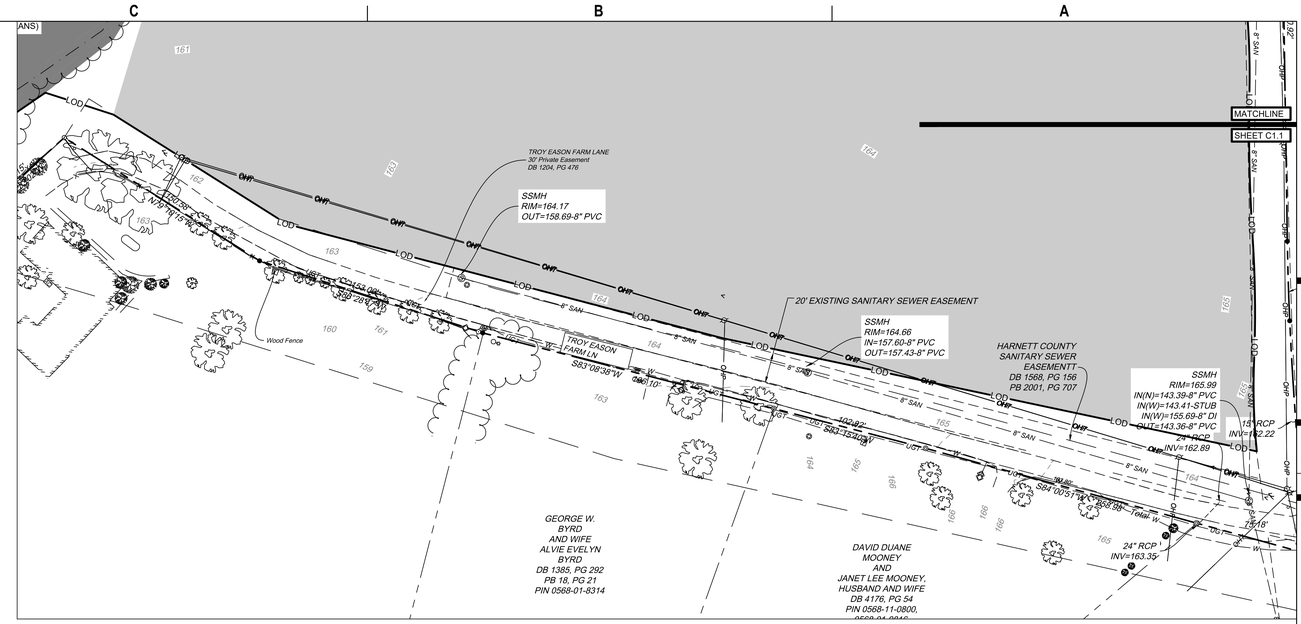

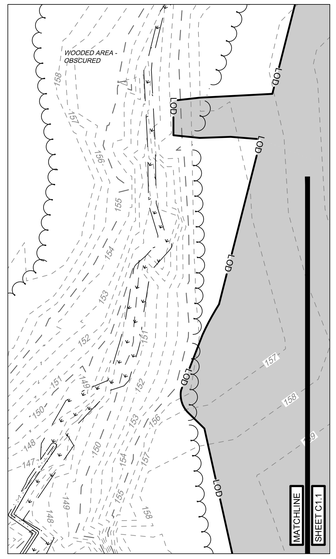

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RIGHT OF WAY LINE	MAILBOX
EDGE OF PAVEMENT	YARD LIGHT
GRAVEL ROAD	GUY

DEMOLITION LEGEND

REMOVE

STABILIZE POND BANKS

LOD — LIMITS OF WORK

LEGEND

WETLAND

NAD 83

SCALE 1"=40'

0 40' 80'

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NORTH CAROLINA PROFESSIONAL SEAL 045892 ENGINEER William P. Ahrnen 12-13-24

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3	12-06-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24
PROJECT #: 63089
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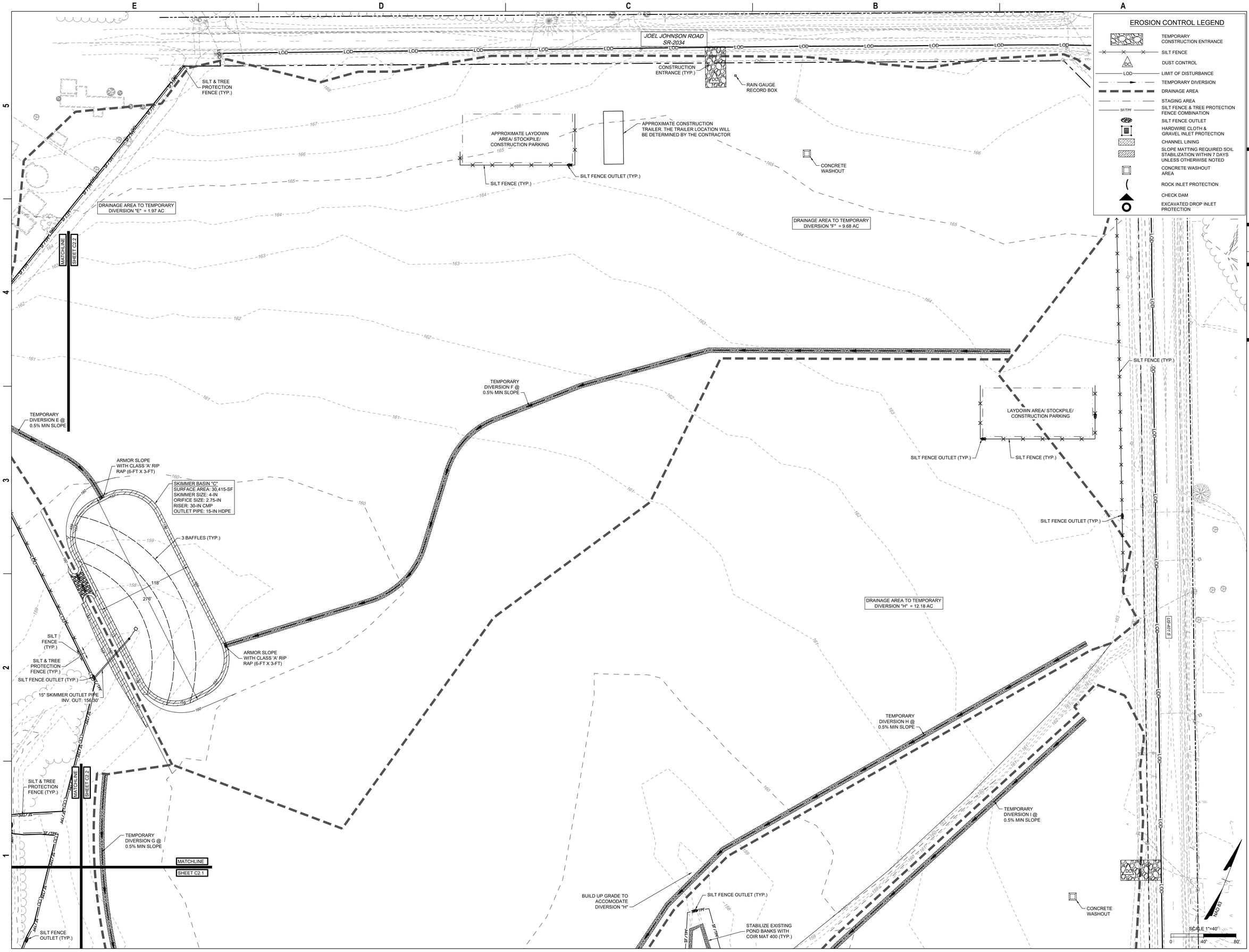
EXISTING CONDITIONS AND DEMOLITION PLAN

C1.2



EROSION CONTROL LEGEND

- TEMPORARY CONSTRUCTION ENTRANCE
- SILT FENCE
- DUST CONTROL
- LOD — LIMIT OF DISTURBANCE
- TEMPORARY DIVERSION
- DRAINAGE AREA
- STAGING AREA
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- CONCRETE WASHOUT AREA
- ROCK INLET PROTECTION
- CHECK DAM
- EXCAVATED DROP INLET PROTECTION

[redacted]

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045892 William P. Allman 12-13-24

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Harnett County Schools

FLATWOODS MIDDLE SCHOOL

3544 US 401 S
Lillington, NC 27546

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PHASE I EROSION CONTROL PLAN

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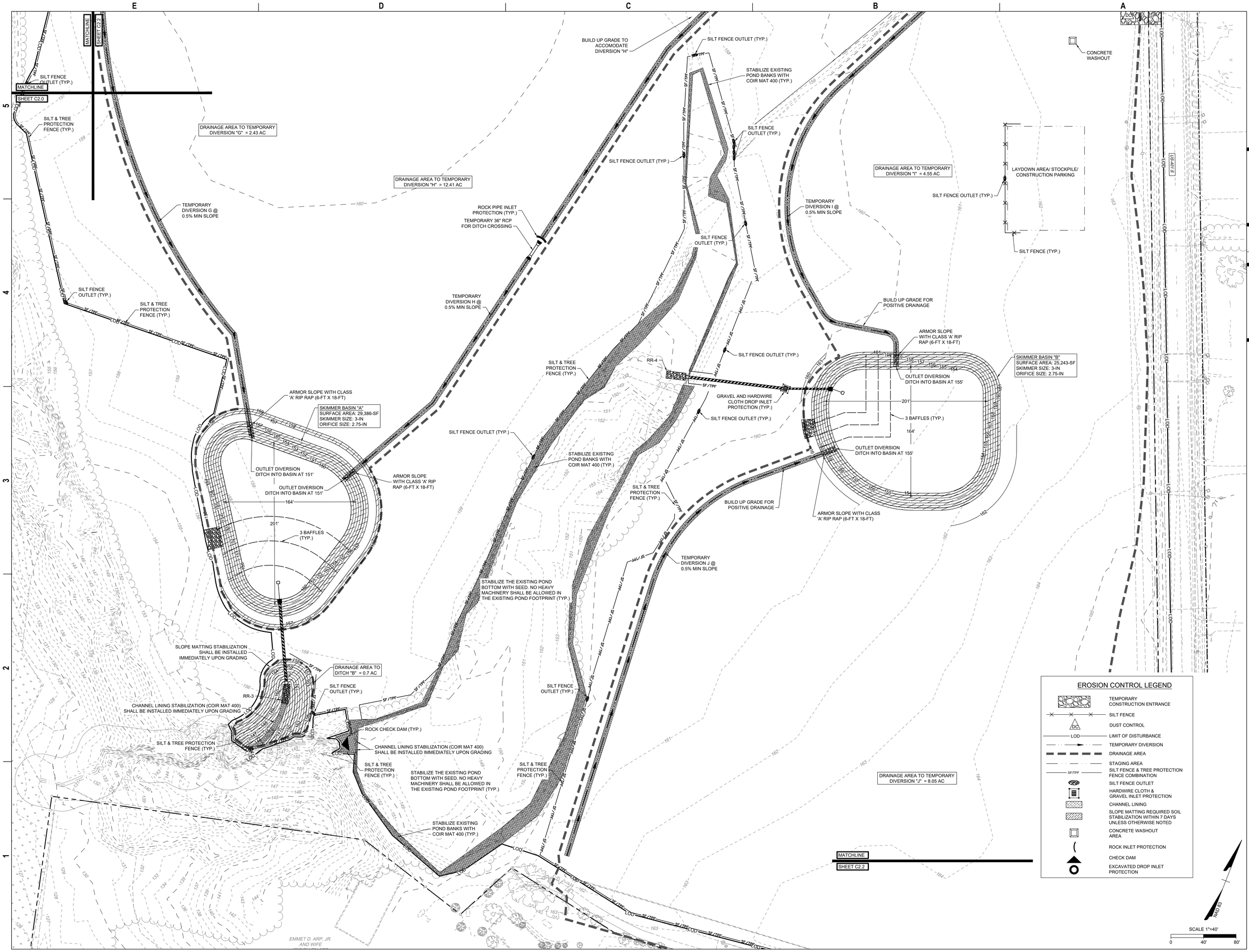

EROSION CONTROL LEGEND

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NORTH CAROLINA PROFESSIONAL SEAL 045892 ENGINEER William P. Ahlman 12-13-24

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PHASE I EROSION CONTROL PLAN

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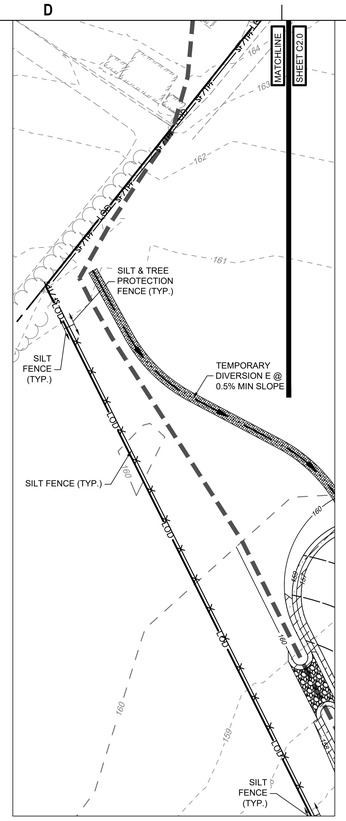

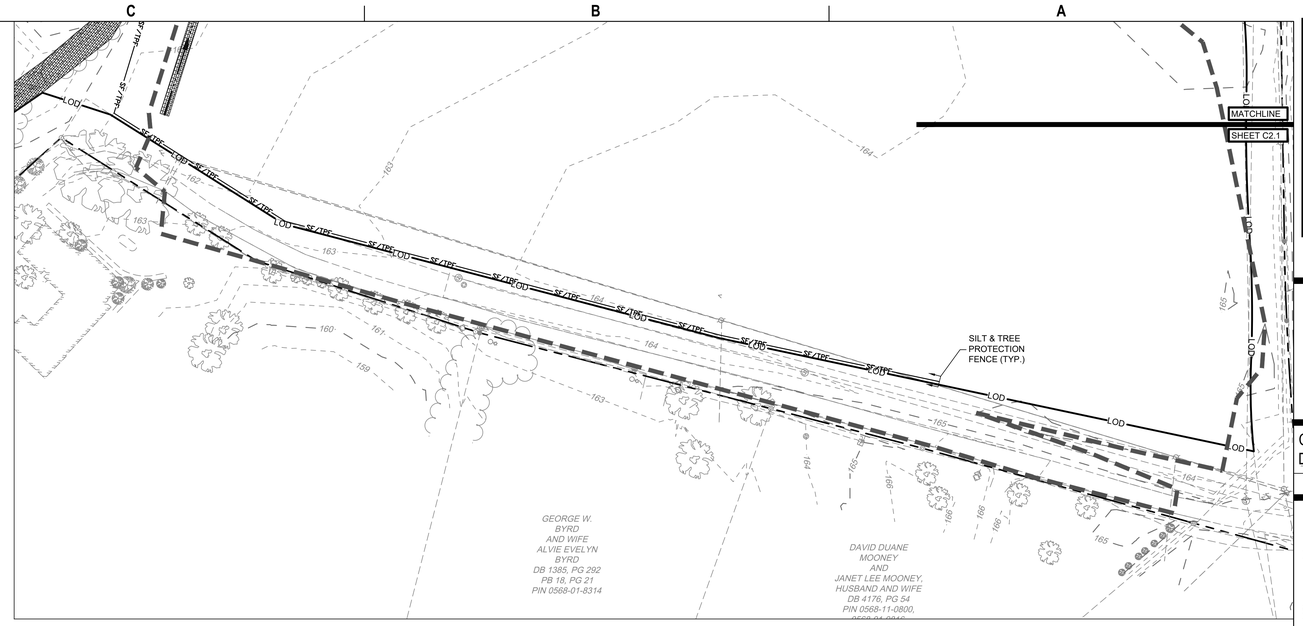

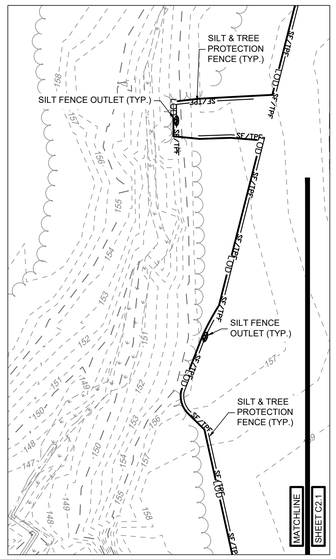

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

1. ALL CONSTRUCTION SHALL COMPLY WITH NCDENR STANDARDS AND SPECIFICATIONS.
2. A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
3. FAILURE TO FOLLOW THE APPROVED PLAN SEQUENCE AND DETAILS COULD SUBJECT THE CONTRACTOR TO FINES AND PENALTIES ISSUED BY THE DWQ.
4. FIELD VERIFY ALL DIMENSIONS AND GRADES ON THESE PLANS PRIOR TO CONSTRUCTION. FAILURE TO NOTIFY THE OWNER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH PLAN OR GRADE CHANGES, MAY RESULT IN NO EXTRA COMPENSATION PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY.
5. EXCAVATION AND EARTH MOVING OPERATIONS SHALL BE CONDUCTED UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER.
6. VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE RECORDS AND FROM A SURVEY OF ABOVE GROUND FEATURES. NO WARRANTY IS GIVEN OR IMPLIED AS TO THE ACCURACY OF THE INFORMATION. ALL EXISTING UTILITIES SHOULD BE CONSIDERED APPROXIMATE IN LOCATION AND VERIFIED PRIOR TO COMMENCING ACTIVITY ON SITE.
7. ALL ADJACENT ROADS TO THE SITE ARE TO BE SWEPT AND WASHED AT THE END OF EACH WORK DAY TO ENSURE NO SEDIMENT COLLECTS ON THE ROADWAYS.
8. INSPECT AND PROPERLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER EVERY RAINFALL EVENT.
9. INSTALL ANY ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY TO PREVENT SEDIMENT RUNOFF.
10. PROVIDE NCDENR-DWQ WITH THE LOCATION OF OFFSITE STOCKPILES USED TO STORE EXCAVATED SOIL FROM THE SITE. THE LOCATION OF OFFSITE STOCKPILES MUST BE AN UPLAND AREA. IF AN OFFSITE BORROW OR SPOIL SITE IS UTILIZED, THEN THE DISTURBED AREA FOR THE BORROW/SPOIL SITE MUST BE INCLUDED IN THE LAND DISTURBANCE PERMIT. THE CONTRACTOR WILL PROVIDE THE LOCATION OF ALL EXCAVATED SOILS USED FOR THIS PROJECT TO NCDENR-DWQ. THIS AREA MUST ALSO BE AN UPLAND AREA.

PHASE I EROSION CONTROL CONSTRUCTION SEQUENCE:

1. OBTAIN AND APPROVED PLAN AND APPLICABLE PERMIT PRIOR TO COMMENCING ANY LAND DISTURBING ACTIVITY. A COPY OF THE APPROVED PLAN AND APPROVAL LETTER MUST BE ON FILE AT THE JOB SITE. NOTIFY EROSION CONTROL AUTHORITIES OF PROPOSED STARTING DATE OF LAND DISTURBING ACTIVITIES BY CALLING THE FAYETTEVILLE REGIONAL OFFICE AT (910)433-3300.
2. CONDUCT PRE-CONSTRUCTION CONFERENCE AND INVITE NCDEQ LAND QUALITY SECTION, FAYETTEVILLE REGIONAL OFFICE, BY CALLING (919)433-3300.
3. INSTALL CONSTRUCTION ENTRANCE, PERIMETER SILT FENCE AND REINFORCED SILT FENCE OUTLETS.
4. CLEAR/GRUB AND GRADE ONLY AS NECESSARY TO INSTALL EROSION CONTROL MEASURES AND BASINS.
5. INSTALL STORM NETWORK STRUCTURES 'FES 3B' TO 'POND B RISER' AND 'FES 2A' TO 'POND A RISER'.
6. CALL NCDEQ AND THE ENGINEER TO ARRANGE AN INSPECTION OF INSTALLED EROSION CONTROL DEVICES. (NOTE: DEMOLITION, GRADING, AND ANY OTHER CONSTRUCTION WORK SHALL NOT OCCUR UNTIL THE EROSION CONTROL FEATURES ARE INSTALLED AND APPROVED BY NCDEQ INSPECTOR.)
7. PROCEED TO PHASE II OF THE EROSION CONTROL SEQUENCE ONCE PHASE I MEASURES HAVE BEEN COMPLETED, INSPECTED, AND APPROVED.

NPDES GROUND STABILIZATION:

SOIL STABILIZATION SHALL BE ACHIEVED ON ANY AREA OF A SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE:

1. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
2. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.

NOTE:

THE NPDES CONSTRUCTION PERMIT REQUIRES EROSION CONTROL DEVICES AND STORM WATER OUTFALLS BE INSPECTED WEEKLY (EVERY 7 CALENDAR DAYS) AND WITHIN 24 HRS OF A .5 INCH RAIN EVENT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT THESE INSPECTIONS AND MAINTAIN RECORDS UNTIL THE AREA HAS STABILIZED, EVIDENT BY 95% VEGETATIVE GROWTH FOR AREAS PROVIDED SEEDING. TO FACILITATE RAINFALL MONITORING A RAIN GAUGE IS REQUIRED TO BE ON SITE. ADDITIONALLY THE CONTRACTOR IS RESPONSIBLE FOR CONDUCTING "SELF INSPECTIONS" INDICATING THE DATE BMPS ARE INSTALLED AND STABILIZATION MEASURES (SEEDING/MULCHING OR SOD) ARE INITIATED. THE "SELF INSPECTION" REPORTS WILL BE MAINTAINED ALONG WITH THE "NPDES" INSPECTION REPORTS. ONCE STABILIZATION HAS BEEN ACCOMPLISHED INSPECTION RECORDS ARE TO BE FORWARDED TO EAD AND ALL TEMPORARY EROSION/SEDIMENTATION CONTROL DEVICES REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING COMPLIANCE WITH ALL PERMITS AND PLANS, ANY CHANGES WILL BE APPROVED BY THE STATE PRIOR TO EXECUTION. A COPY OF THE EROSION AND SEDIMENTATION CONTROL PLAN, LETTER OF APPROVAL, AND NPDES CONSTRUCTION PERMIT WILL BE MAINTAINED BY THE CONTRACTOR AT THE ONSITE OFFICE. IF SOIL IS REMOVED FROM OR BROUGHT ONSITE, THE APPLICABLE SOLID WASTE MANAGEMENT PERMIT NUMBER, EROSION SEDIMENTATION PERMIT NUMBER OR MINE PERMIT NUMBER WILL BE DISCLOSED.

SILT FENCE OUTLETS ARE TO BE PROVIDED ALONG ALL LOW POINTS OF SILT FENCE AND AREAS WHERE RUNOFF MAY CONCENTRATE CAUSING DAMAGE TO SILT FENCE. CONTRACTOR TO INSTALL OUTLETS AS NECESSARY TO ENSURE SILT FENCE IS FULLY FUNCTIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.

LIMITS OF DISTURBANCE: 60.0 AC

EROSION CONTROL LEGEND

- TEMPORARY CONSTRUCTION ENTRANCE
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- DC — DUST CONTROL
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- CHECK DAM
- EXCAVATED DROP INLET PROTECTION

NAD 83

SCALE 1"=40'

0 40' 80'

[redacted]

NORTH CAROLINA PROFESSIONAL SEAL 045892 ENGINEER William P. Ahrnsen 12-13-24

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Harnett County Schools

FLATWOODS MIDDLE SCHOOL

3544 US 401 S
Lillington, NC 27546

ENERGY STAR PARTNER

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PHASE I EROSION CONTROL PLAN

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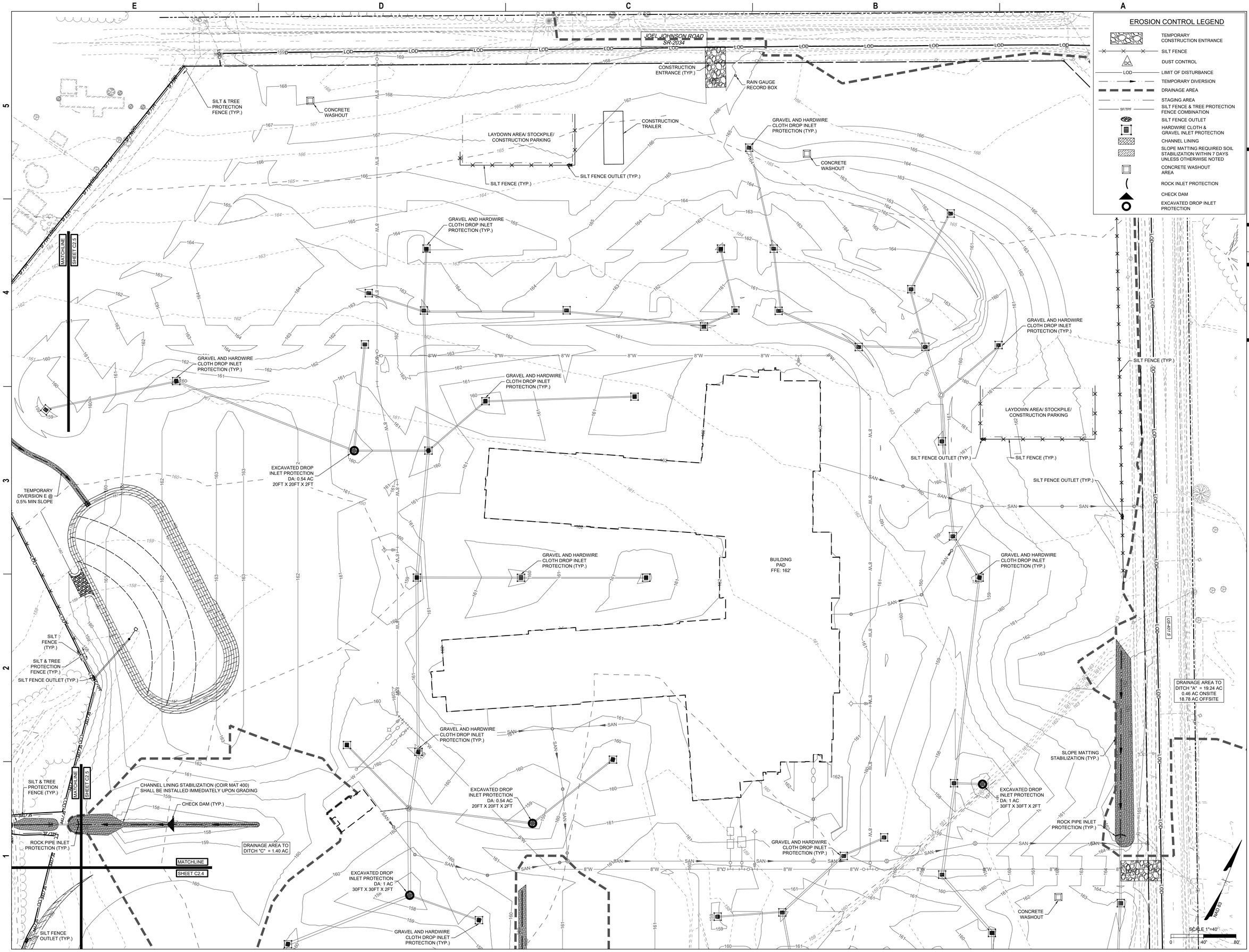

EROSION CONTROL LEGEND

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045892 William P. Allman 12-13-24

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PHASE II EROSION CONTROL PLAN

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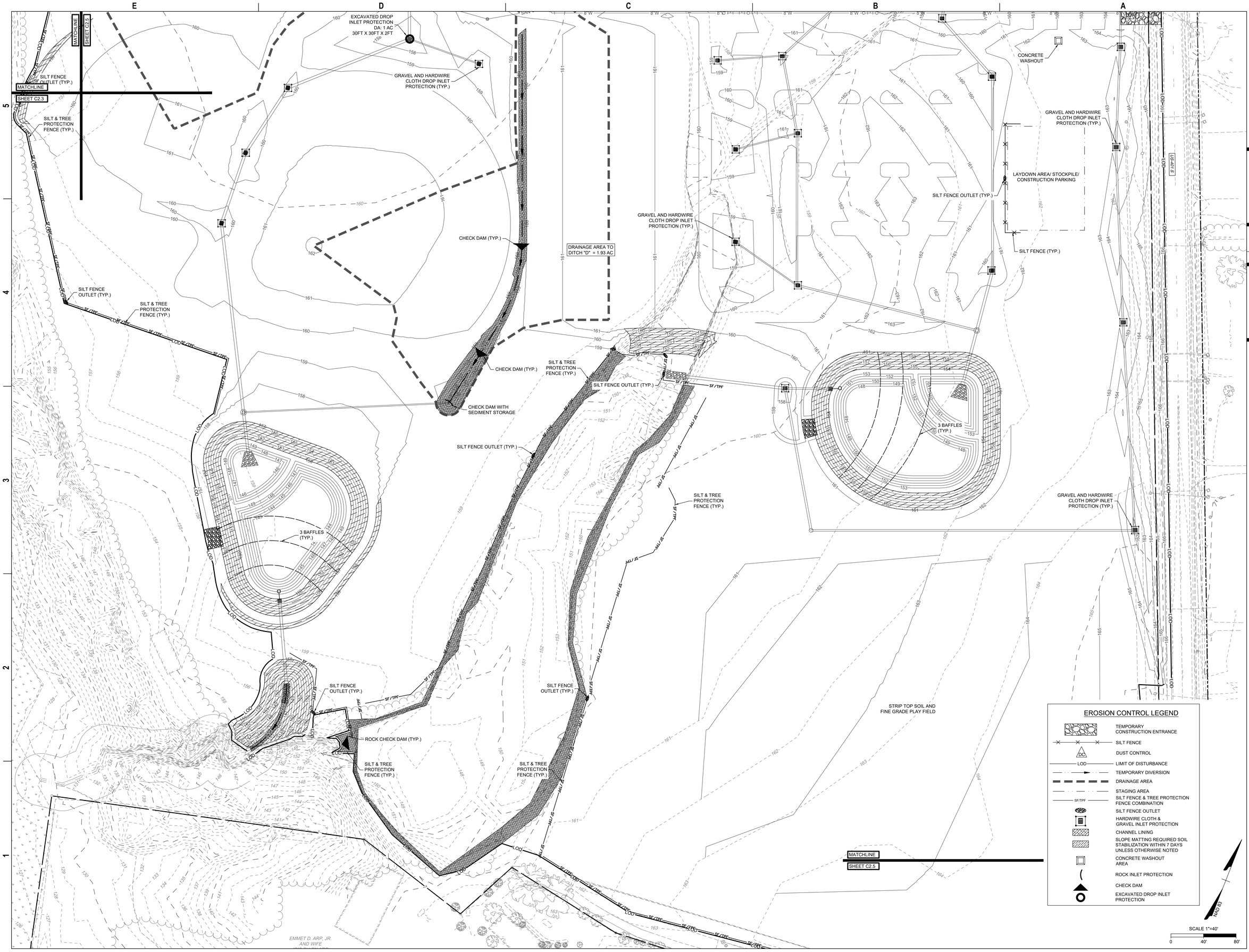

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PHASE II EROSION CONTROL PLAN

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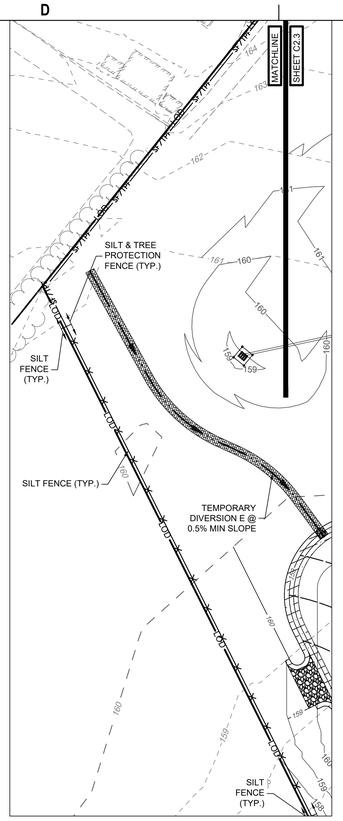

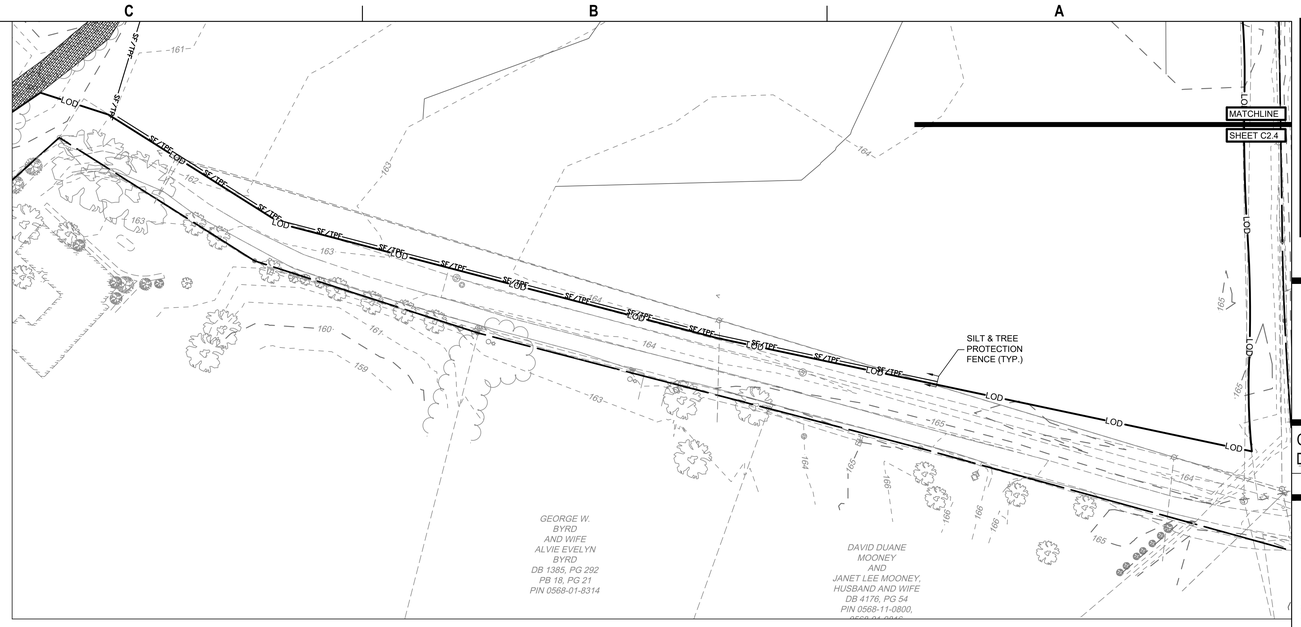

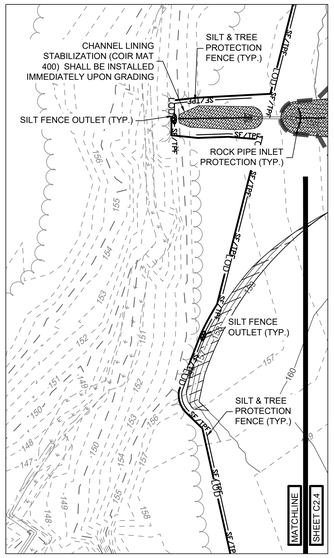

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2. A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
3. FAILURE TO FOLLOW THE APPROVED PLAN SEQUENCE AND DETAILS COULD SUBJECT THE CONTRACTOR TO FINES AND PENALTIES ISSUED BY THE DWQ.
4. FIELD VERIFY ALL DIMENSIONS AND GRADES ON THESE PLANS PRIOR TO CONSTRUCTION. FAILURE TO NOTIFY THE OWNER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH PLAN OR GRADE CHANGES, MAY RESULT IN NO EXTRA COMPENSATION PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY.
5. EXCAVATION AND EARTH MOVING OPERATIONS SHALL BE CONDUCTED UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER.
6. VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE RECORDS AND FROM A SURVEY OF ABOVE GROUND FEATURES. NO WARRANTY IS GIVEN OR IMPLIED AS TO THE ACCURACY OF THE INFORMATION. ALL EXISTING UTILITIES SHOULD BE CONSIDERED APPROXIMATE IN LOCATION AND VERIFIED PRIOR TO COMMENCING ACTIVITY ON SITE.
7. ALL ADJACENT ROADS TO THE SITE ARE TO BE SWEPT AND WASHED AT THE END OF EACH WORK DAY TO ENSURE NO SEDIMENT COLLECTS ON THE ROADWAYS.
8. INSPECT AND PROPERLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER EVERY RAINFALL EVENT.
9. INSTALL ANY ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY TO PREVENT SEDIMENT RUNOFF.
10. PROVIDE NCDENR-DWQ WITH THE LOCATION OF OFFSITE STOCKPILES USED TO STORE EXCAVATED SOIL FROM THE SITE. THE LOCATION OF OFFSITE STOCKPILES MUST BE AN UPLAND AREA. IF AN OFFSITE BORROW OR SPOIL SITE IS UTILIZED, THEN THE DISTURBED AREA FOR THE BORROW/SPOIL SITE MUST BE INCLUDED IN THE LAND DISTURBANCE PERMIT. THE CONTRACTOR WILL PROVIDE THE LOCATION OF ALL EXCAVATED SOILS USED FOR THIS PROJECT TO NCDENR-DWQ. THIS AREA MUST ALSO BE AN UPLAND AREA.

PHASE II EROSION CONTROL CONSTRUCTION SEQUENCE:

1. MAINTAIN ALL EXISTING EROSION & SEDIMENT CONTROL FEATURES PREVIOUSLY CONSTRUCTED AND ASSOCIATED WITH PHASE I. ADJUST AS NEEDED.
2. PROCEED WITH DEMOLITION, GRADING, AND SITE WORK AS SHOWN ON PLANS. COMPLY WITH ALL HAZARDOUS MATERIALS AND CODES AND REGULATIONS. STOCKPILE ALL MATERIALS TO BE REUSED ONSITE IN THE DESIGNATED AREA.
3. BEGIN EXCAVATION AND ROUGH GRADING, LAY SLOPES BACK AT A MAXIMUM OF 2:1 AND STABILIZE IMMEDIATELY. EXCAVATION SHALL BE PERFORMED UNDER THE DIRECTION OF THE OWNERS GEOTECHNICAL ENGINEER. BRING SITE UP TO GRADE AND BEGIN GRADING OF BUILDING PAD.
4. AS SITE IS BROUGHT UP TO GRADE, DEWATER SKIMMER BASIN 'C' BY PUMPING WATER THROUGH SILT BAG AS SHOWN ON PLANS. REMOVE SKIMMER BASIN 'C' AND STABILIZE WITH TEMPORARY GROUND COVER.
5. BEGIN UTILITY AND REMAINING STORM DRAINAGE AND CULVERT INSTALLATION AS SHOWN ON DRAWINGS. INSTALL INLET AND OUTLET PROTECTION DEVICES AT NEW STRUCTURES AS THEY ARE CONSTRUCTED.
6. DENUDED AREAS SHALL BE SEEDED WITHIN FOURTEEN (14) DAYS OF COMPLETION OF ANY PHASE OF CONSTRUCTION FOR FLAT AREAS AND SEVEN (7) DAYS ON ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL.
7. SLOPES 3:1 OR GREATER SHALL BE HYDROSEEDED UNLESS OTHERWISE STABILIZED WITH EROSION CONTROL MATTING.
8. MAINTAIN ALL EROSION & SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION. REMOVE AND STABILIZE CONSTRUCTION LAYDOWN, STAGING, DIRT & WASTE PILE AREAS. ALL APPLICABLE E&S CONTROL MEASURES ARE TO REMAIN UNTIL PERMANENT VEGETATION IS ESTABLISHED.
9. ONCE THE SITE IS READY TO MOVE FORWARD WITH SITE PAVING, STABILIZE THE SITE AND PROCEED TO PHASE III EROSION CONTROL.

NPDES GROUND STABILIZATION:

SOIL STABILIZATION SHALL BE ACHIEVED ON ANY AREA OF A SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE:

1. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.

2. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.

NOTE:

THE NPDES CONSTRUCTION PERMIT REQUIRES EROSION CONTROL DEVICES AND STORM WATER OUTFALLS BE INSPECTED WEEKLY (EVERY 7 CALENDAR DAYS) AND WITHIN 24 HRS OF A 0.5 INCH RAIN EVENT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT THESE INSPECTIONS AND MAINTAIN RECORDS UNTIL THE AREA HAS STABILIZED, EVIDENT BY 95% VEGETATIVE GROWTH FOR AREAS PROVIDED SEEDING. TO FACILITATE RAINFALL MONITORING A RAIN GAUGE IS REQUIRED TO BE ON SITE. ADDITIONALLY THE CONTRACTOR IS RESPONSIBLE FOR CONDUCTING "SELF INSPECTIONS" INDICATING THE DATE BMPS ARE INSTALLED AND STABILIZATION MEASURES (SEEDING/MULCHING OR SOD) ARE INITIATED. THE "SELF INSPECTION" REPORTS WILL BE MAINTAINED ALONG WITH THE "NPDES" INSPECTION REPORTS. ONCE STABILIZATION HAS BEEN ACCOMPLISHED INSPECTION RECORDS ARE TO BE FORWARDED TO EAD AND ALL TEMPORARY EROSION/SEDIMENTATION CONTROL DEVICES REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING COMPLIANCE WITH ALL PERMITS AND PLANS, ANY CHANGES WILL BE APPROVED BY THE STATE PRIOR TO EXECUTION. A COPY OF THE EROSION AND SEDIMENTATION CONTROL PLAN, LETTER OF APPROVAL, AND NPDES CONSTRUCTION PERMIT WILL BE MAINTAINED BY THE CONTRACTOR AT THE ONSITE OFFICE. IF SOIL IS REMOVED FROM OR BROUGHT ONSITE, THE APPLICABLE SOLID WASTE MANAGEMENT PERMIT NUMBER, EROSION SEDIMENTATION PERMIT NUMBER OR MINE PERMIT NUMBER WILL BE DISCLOSED.

EROSION CONTROL LEGEND

- TEMPORARY CONSTRUCTION ENTRANCE
- SILT FENCE
- DUST CONTROL
- LIMIT OF DISTURBANCE
- TEMPORARY DIVERSION
- DRAINAGE AREA
- STAGING AREA
- SILT FENCE & TREE PROTECTION FENCE COMBINATION
- SILT FENCE OUTLET
- HARDWIRE CLOTH & GRAVEL INLET PROTECTION
- CHANNEL LINING
- SLOPE MATTING REQUIRED SOIL STABILIZATION WITHIN 7 DAYS UNLESS OTHERWISE NOTED
- CONCRETE WASHOUT AREA
- ROCK INLET PROTECTION
- CHECK DAM
- EXCAVATED DROP INLET PROTECTION

SILT FENCE OUTLETS ARE TO BE PROVIDED ALONG ALL LOW POINTS OF SILT FENCE AND AREAS WHERE RUNOFF MAY CONCENTRATE CAUSING DAMAGE TO SILT FENCE. CONTRACTOR TO INSTALL OUTLETS AS NECESSARY TO ENSURE SILT FENCE IS FULLY FUNCTIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.

LIMITS OF DISTURBANCE: 60.0 AC

NAD 83

SCALE 1"=40'

0 40' 80'

[redacted]

NORTH CAROLINA PROFESSIONAL 12-13-24 SEAL 045892 ENGINEER William P. Ahrnsen

CONSTRUCTION DOCUMENTS

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Harnett County Schools

FLATWOODS MIDDLE SCHOOL

3544 US 401 S
Lillington, NC 27546

ENERGY STAR PARTNER

No.	Date	Description
1	12-06-24	NCDOI CD
2	12-13-24	CD REVISIONS
3	12-06-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24
PROJECT #: 63089
DRAWN BY: JG
CHECKED BY: WA

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PHASE II EROSION CONTROL PLAN

C2.5

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JOEL JOHNSON ROAD
SR-2034

SILT & TREE PROTECTION FENCE (TYP.)

USE COMPOST SOCK INLET PROTECTION IF ALTERNATE 2 IS CONSTRUCTED

USE COMPOST SOCK INLET PROTECTION IF ALTERNATE 2 IS CONSTRUCTED

COMPOST SOCK INLET PROTECTION (TYP.)

COMPOST SOCK INLET PROTECTION (TYP.)

COMPOST SOCK INLET PROTECTION (TYP.)

GRAVEL AND HARDWIRE CLOTH DROP INLET PROTECTION (TYP.)

GRAVEL AND HARDWIRE CLOTH DROP INLET PROTECTION (TYP.)

COMPOST SOCK INLET PROTECTION (TYP.)

SILT FENCE (TYP.)

COMPOST SOCK INLET PROTECTION (TYP.)

GRAVEL AND HARDWIRE CLOTH DROP INLET PROTECTION (TYP.)

FLATWOODS MIDDLE SCHOOL
FFE: 162'

GRAVEL AND HARDWIRE CLOTH DROP INLET PROTECTION (TYP.)

SILT FENCE (TYP.)

SILT FENCE OUTLET (TYP.)

SILT & TREE PROTECTION FENCE (TYP.)

GRAVEL AND HARDWIRE CLOTH DROP INLET PROTECTION (TYP.)

SILT & TREE PROTECTION FENCE (TYP.)

ROCK PIPE INLET PROTECTION (TYP.)

COMPOST SOCK INLET PROTECTION (TYP.)

ROCK PIPE INLET PROTECTION (TYP.)

GRAVEL AND HARDWIRE CLOTH DROP INLET PROTECTION (TYP.)

SILT FENCE OUTLET (TYP.)

USE COMPOST SOCK INLET PROTECTION IF ALTERNATE 3 IS CONSTRUCTED

MATCHLINE SHEET C2.8

MATCHLINE SHEET C2.8

MATCHLINE SHEET C2.7

US-401 S

NAD 83

SCALE 1"=40'
0 40' 80'

EROSION CONTROL LEGEND

- TEMPORARY CONSTRUCTION ENTRANCE
- SILT FENCE
- DUST CONTROL
- LOD — LIMIT OF DISTURBANCE
- TEMPORARY DIVERSION
- DRAINAGE AREA
- STAGING AREA
- SF/TPF — SILT FENCE & TREE PROTECTION FENCE COMBINATION
- SILT FENCE OUTLET
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- SLOPE MATTING REQUIRED SOIL STABILIZATION WITHIN 7 DAYS UNLESS OTHERWISE NOTED
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- ROCK INLET PROTECTION
- CHECK DAM
- EXCAVATED DROP INLET PROTECTION

NORTH CAROLINA PROFESSIONAL SEAL 045892 ENGINEER William P. Allman 12-13-24

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Harnett County Schools

FLATWOODS MIDDLE SCHOOL

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Lillington, NC 27546

ENERGY STAR PARTNER

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1	12-06-24	NCDOI CD
2	12-13-24	CD REVISIONS
3	12-06-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24
PROJECT #: 63089
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CHECKED BY: WA

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PHASE III EROSION CONTROL PLAN

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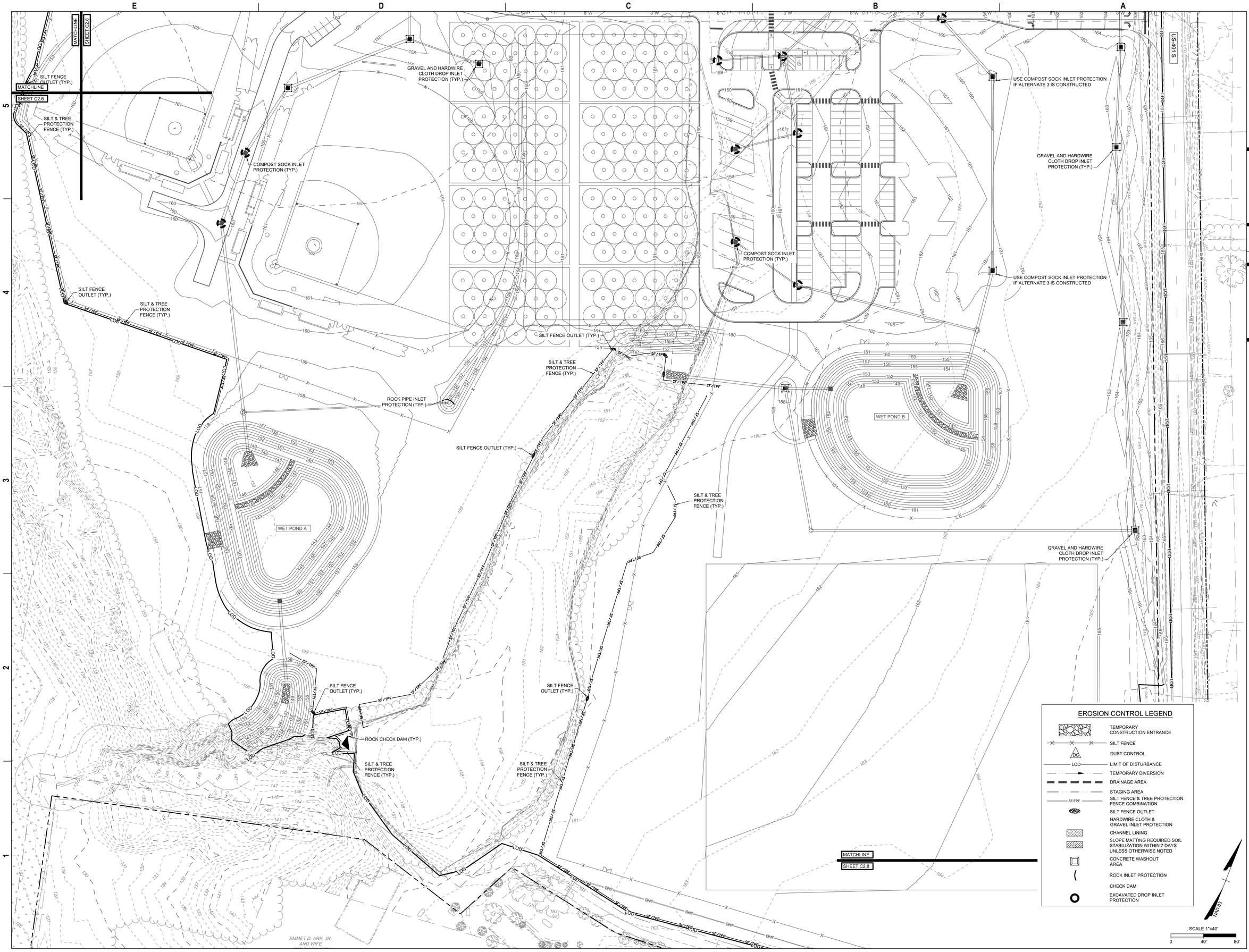

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ISSUE DATE: 11-08-24

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PHASE III EROSION CONTROL PLAN

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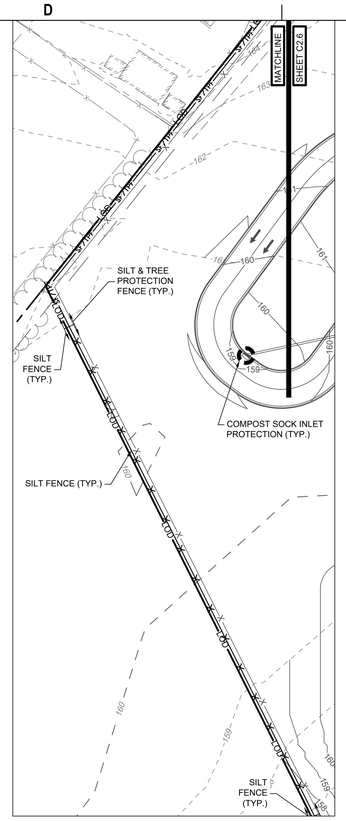

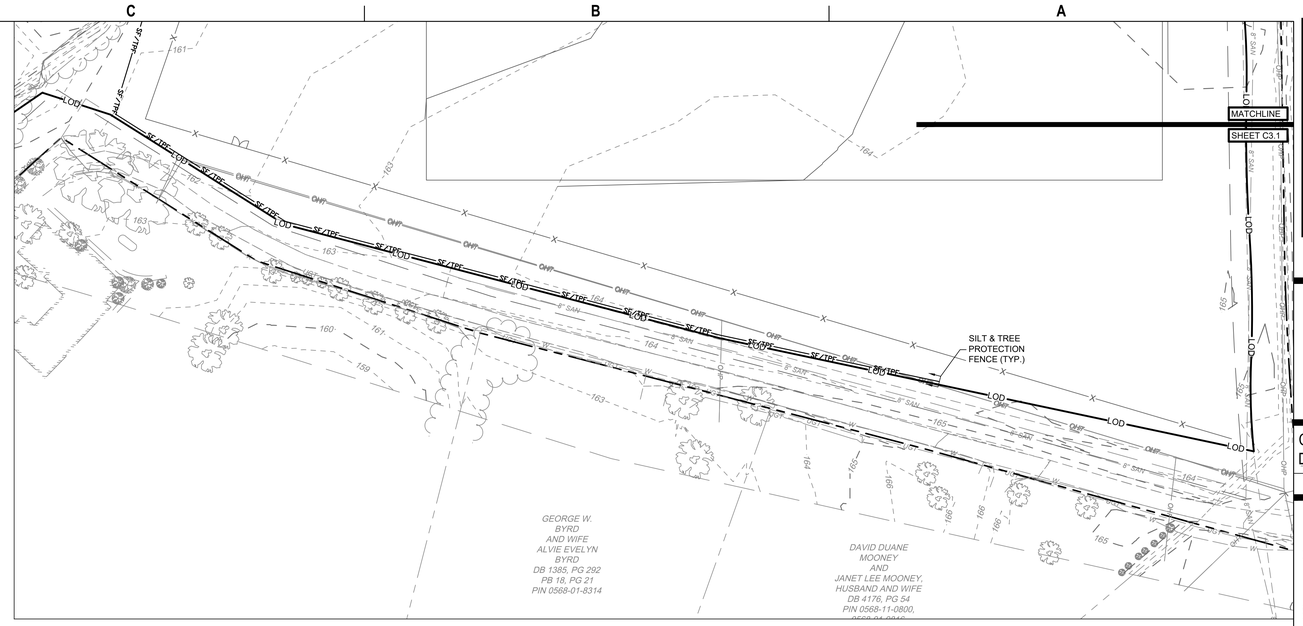

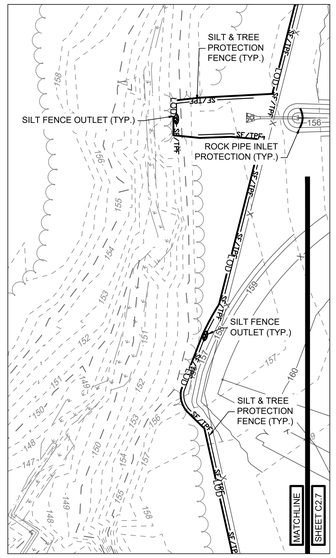

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

1. ALL CONSTRUCTION SHALL COMPLY WITH NCDENR STANDARDS AND SPECIFICATIONS.
2. A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
3. FAILURE TO FOLLOW THE APPROVED PLAN SEQUENCE AND DETAILS COULD SUBJECT THE CONTRACTOR TO FINES AND PENALTIES ISSUED BY THE DWQ.
4. FIELD VERIFY ALL DIMENSIONS AND GRADES ON THESE PLANS PRIOR TO CONSTRUCTION. FAILURE TO NOTIFY THE OWNER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH PLAN OR GRADE CHANGES, MAY RESULT IN NO EXTRA COMPENSATION PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY.
5. EXCAVATION AND EARTH MOVING OPERATIONS SHALL BE CONDUCTED UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER.
6. VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE RECORDS AND FROM A SURVEY OF ABOVE GROUND FEATURES. NO WARRANTY IS GIVEN OR IMPLIED AS TO THE ACCURACY OF THE INFORMATION. ALL EXISTING UTILITIES SHOULD BE CONSIDERED APPROXIMATE IN LOCATION AND VERIFIED PRIOR TO COMMENCING ACTIVITY ON SITE.
7. ALL ADJACENT ROADS TO THE SITE ARE TO BE SWEPT AND WASHED AT THE END OF EACH WORK DAY TO ENSURE NO SEDIMENT COLLECTS ON THE ROADWAYS.
8. INSPECT AND PROPERLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER EVERY RAINFALL EVENT.
9. INSTALL ANY ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY TO PREVENT SEDIMENT RUNOFF.
10. PROVIDE NCDENR-DWQ WITH THE LOCATION OF OFFSITE STOCKPILES USED TO STORE EXCAVATED SOIL FROM THE SITE. THE LOCATION OF OFFSITE STOCKPILES MUST BE AN UPLAND AREA. IF AN OFFSITE BORROW OR SPOIL SITE IS UTILIZED, THEN THE DISTURBED AREA FOR THE BORROW/SPOIL SITE MUST BE INCLUDED IN THE LAND DISTURBANCE PERMIT. THE CONTRACTOR WILL PROVIDE THE LOCATION OF ALL EXCAVATED SOILS USED FOR THIS PROJECT TO NCDENR-DWQ. THIS AREA MUST ALSO BE AN UPLAND AREA.

PHASE III EROSION CONTROL CONSTRUCTION SEQUENCE:

1. MAINTAIN ALL EXISTING EROSION & SEDIMENT CONTROL MEASURES PREVIOUSLY CONSTRUCTED AND ASSOCIATED WITH PHASE II. ADJUST AS NEEDED.
2. AS SITE IS PAVED AND BROUGHT UP TO FINAL GRADE COMPLETE UTILITY INSTALLATION.
3. INSTALL REMAINDER OF PAVING AND SITE FEATURES. ADJUST INLET PROTECTION DEVICES IN PERVIOUS AREAS AS SHOWN ON PLANS.
4. RESPREAD TOPSOIL, INSTALL SLOPE PROTECTION BLANKETS ON ANY 3:1 SLOPES AND VEGETATE STEEP SLOPES AS THEY ARE ESTABLISHED ON PLANS.
5. VEGETATE ALL DISTURBED AREAS ACCORDING TO THE NPDES CHART.
6. WHEN THE SITE IS STABILIZED, CONTACT NCDEQ AT (910)433-3300 AND TIMMONS GROUP AT (919)866-4938 FOR AN INSPECTION.
7. IF APPROVAL IS GRANTED BY NCDEQ AND TIMMONS GROUP, REMOVE TEMPORARY SILT FENCING AND OTHER TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES.
8. DEWATER SKIMMER BASINS 'A' AND 'B' BY PUMPKING WATER THROUGH SILT BAG AS SHOWN ON PLANS.
9. REMOVE SKIMMER BASINS AND ALL OTHER TEMPORARY EROSION CONTROL MEASURES. CONVERT SKIMMER BASIN 'A' AND 'B' TO WET PONDS. REFER TO CONVERSION SEQUENCE ON SCM DETAILS SHEET.
10. FINE GRADE AND PROVIDE ALL REMAINING IMPROVEMENTS.
11. SEED AND RE-SEED ALL BARE AREAS WITH PERMANENT SEEDING, MULCH OR LANDSCAPING.

NPDES GROUND STABILIZATION:

SOIL STABILIZATION SHALL BE ACHIEVED ON ANY AREA OF A SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE:

1. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.

2. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.

NOTE:

THE NPDES CONSTRUCTION PERMIT REQUIRES EROSION CONTROL DEVICES AND STORM WATER OUTFALLS BE INSPECTED WEEKLY (EVERY 7 CALENDAR DAYS) AND WITHIN 24 HRS OF A .5 INCH RAIN EVENT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT THESE INSPECTIONS AND MAINTAIN RECORDS UNTIL THE AREA HAS STABILIZED, EVIDENT BY 95% VEGETATIVE GROWTH FOR AREAS PROVIDED SEEDING. TO FACILITATE RAINFALL MONITORING A RAIN GAUGE IS REQUIRED TO BE ON SITE. ADDITIONALLY THE CONTRACTOR IS RESPONSIBLE FOR CONDUCTING "SELF INSPECTIONS" INDICATING THE DATE BMPS ARE INSTALLED AND STABILIZATION MEASURES (SEEDING/MULCHING OR SOD) ARE INITIATED. THE "SELF INSPECTION" REPORTS WILL BE MAINTAINED ALONG WITH THE "NPDES" INSPECTION REPORTS. ONCE STABILIZATION HAS BEEN ACCOMPLISHED INSPECTION RECORDS ARE TO BE FORWARDED TO EAD AND ALL TEMPORARY EROSION/SEDIMENTATION CONTROL DEVICES REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING COMPLIANCE WITH ALL PERMITS AND PLANS, ANY CHANGES WILL BE APPROVED BY THE STATE PRIOR TO EXECUTION. A COPY OF THE EROSION AND SEDIMENTATION CONTROL PLAN, LETTER OF APPROVAL, AND NPDES CONSTRUCTION PERMIT WILL BE MAINTAINED BY THE CONTRACTOR AT THE ONSITE OFFICE. IF SOIL IS REMOVED FROM OR BROUGHT ONSITE, THE APPLICABLE SOLID WASTE MANAGEMENT PERMIT NUMBER, EROSION SEDIMENTATION PERMIT NUMBER OR MINE PERMIT NUMBER WILL BE DISCLOSED.

EROSION CONTROL LEGEND

- TEMPORARY CONSTRUCTION ENTRANCE
- SILT FENCE
- DUST CONTROL
- LOD — LIMIT OF DISTURBANCE
- TEMPORARY DIVERSION
- DRAINAGE AREA
- STAGING AREA
- SF/TPF — SILT FENCE & TREE PROTECTION FENCE COMBINATION
- SILT FENCE OUTLET
- HARDWIRE CLOTH & GRAVEL INLET PROTECTION
- CHANNEL LINING
- SLOPE MATTING REQUIRED SOIL STABILIZATION WITHIN 7 DAYS UNLESS OTHERWISE NOTED
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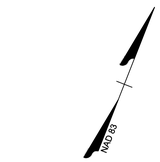
SILT FENCE OUTLETS ARE TO BE PROVIDED ALONG ALL LOW POINTS OF SILT FENCE AND AREAS WHERE RUNOFF MAY CONCENTRATE CAUSING DAMAGE TO SILT FENCE. CONTRACTOR TO INSTALL OUTLETS AS NECESSARY TO ENSURE SILT FENCE IS FULLY FUNCTIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.

LIMITS OF DISTURBANCE: 60.0 AC



SCALE 1"=40'
0 40' 80'

[redacted]

NORTH CAROLINA PROFESSIONAL SEAL 045892 ENGINEER William P. Ahlman 12-13-24

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Harnett County Schools

FLATWOODS MIDDLE SCHOOL

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Lillington, NC 27546

ENERGY STAR PARTNER

No.	Date	Description
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3	12-06-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24
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CHECKED BY: WA

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PHASE III EROSION CONTROL PLAN

C2.8

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SITE LAYOUT NOTES

1. ALL CONSTRUCTION WILL BE TO HARNETT COUNTY OR NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS.
2. ALL DRIVEWAYS MUST BE INSTALLED TO THE MINIMUM HARNETT COUNTY OR NCDOT STANDARDS.
3. WHERE SIDEWALK IS PROPOSED AT THE BACK OF CURB SIDEWALK SHALL BE A MINIMUM OF 6' WIDE.
4. EMPLOY A LICENSED SURVEYOR FOR CONSTRUCTION STAKEOUT. GRADING EQUIPMENT USING GPS IS ACCEPTABLE FOR BULK GRADING ONLY.
5. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
6. RAISE ALL STRUCTURES WITHIN THE AREAS TO BE OVERLAID SUCH THAT THE TOP OF THE STRUCTURE EQUALS THE FINISH GRADE OF THE NEW ASPHALT.
7. COORDINATE THE PROJECT SCHEDULE WITH THE CIVIL ENGINEER AND OWNER IN ACCORDANCE WITH THE OWNER'S ONGOING ONSITE OPERATIONS.
8. ALL PAVING SHALL BE PERFORMED BY A NCDOT APPROVED CONTRACTOR. COORDINATE WITH NCDOT FOR WORK IN THE RIGHT OF WAY.
9. PROVIDE A SMOOTH TRANSITION BETWEEN NEW PAVEMENT AND EXISTING PAVEMENT / GRAVEL SURFACES.
10. PROVIDE A 1-FT OVERLAP OF THE FINAL SURFACE COURSE OVER THE FIRST LIFT OF ASPHALT AT COLD JOINTS.
11. THE OWNER WILL HIRE A THIRD-PARTY INSPECTOR FOR PAVING INSPECTIONS. CORE SAMPLES WILL BE TAKEN IN ASPHALT TO CHECK FOR DENSITY AND THICKNESS.
12. COORDINATE CONCRETE CONTRACTION AND EXPANSION JOINT LOCATIONS WITH THE ENGINEER PRIOR TO CONCRETE PAVING, MOW STRIPS, AND CURBING. PROVIDE ADDITIONAL JOINTS AT PENETRATIONS THROUGH CONCRETE.
13. INSTALL FIBER JOINT FILLER AND CAULK AT EACH CONCRETE EXPANSION JOINT AND WHERE CONCRETE PAVEMENT ABUTS OTHER PAVEMENTS, SIDEWALKS, OR HARD SURFACES.
14. PRIOR TO FINAL PROJECT ACCEPTANCE, PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY SYSTEMS AND STORM SEWERS.
15. SLOPES 3:1 CAN BE SEEDED, SLOPES 2:1 SHALL BE SODDED, SLOPES 1:1 REQUIRE AN ENGINEERED DESIGN.
16. EXISTING DITCH BANKS ARE NOT TO BE DISTURBED. IF DITCH BANKS ARE DISTURBED, THEY SHALL BE REGARDED TO HAVE 3:1 OR FLATTER SIDE SLOPES AND THE CENTERLINE GRADED TO PRODUCE POSITIVE DRAINAGE.
17. AREAS NOTED FOR TRAILS AND GREENWAYS AND/OR REQUIRED SIDEWALKS SHALL BE UNOBSTRUCTED FROM 6 INCHES BELOW GRADE TO 10 FEET ABOVE GRADE (OVERHEAD CLEARANCE). TELEPHONE PEDESTALS, ELECTRIC TRANSFORMERS, DROP INLETS, FENCES OR ANY OTHER OBSTRUCTIONS SHALL BE REMOVED AND OR RELOCATED IN TO CREATE AND OR MAINTAIN THIS CLEARANCE. SIDEWALKS SHALL BE FREE OF CRACKS AND DAMAGE PRIOR TO THE ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY.
18. NO SIGHT OBSTRUCTING OR PARTIALLY OBSTRUCTING WALL, FENCE, FOLIAGE, BERM, SIGN, PARKED VEHICLE, OR OTHER OBJECTS BETWEEN THE HEIGHTS OF TWO FEET AND EIGHT FEET ABOVE THE CURB LINE ELEVATION (OR THE EDGE OF PAVEMENT IF NO CURB EXISTS) SHALL BE PLACED WITHIN SIGHT DISTANCE TRIANGLE.
19. FUTURE LAND USE CLASSIFICATION IS LOW DENSITY / AGRICULTURE.
20. THIS DEVELOPMENT IS WITHIN ONE MILE OF A VOLUNTARY AGRICULTURAL DISTRICT.
21. THIS PROJECT IS LOCATED WITHIN THE HARNETT COUNTY WATER SUPPLY WATERSHED IV DISTRICT, AND A MAXIMUM OF 36% IMPERVIOUS IS ALLOWED
22. KNOX BOX LOCATIONS ARE SHOWN ON ARCHITECTURAL SHEETS A-101, A-112, AND A-113.2.

As the owner of record, I hereby formally consent to the proposed development shown on this site plan and all regulations and requirements of the Harnett County ordinances.

9-17-24

Date Owner Signature

HATCHING LEGEND

- CONCRETE SIDEWALK
- LIGHT DUTY ASPHALT
- HEAVY DUTY ASPHALT
- HEAVY DUTY CONCRETE

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045892 William P. Ahrnen 12-13-24

CONSTRUCTION DOCUMENTS

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DRAWN BY: JG
CHECKED BY: WA

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SITE PLAN

C3.0

SCALE 1"=40'
0 40' 80'

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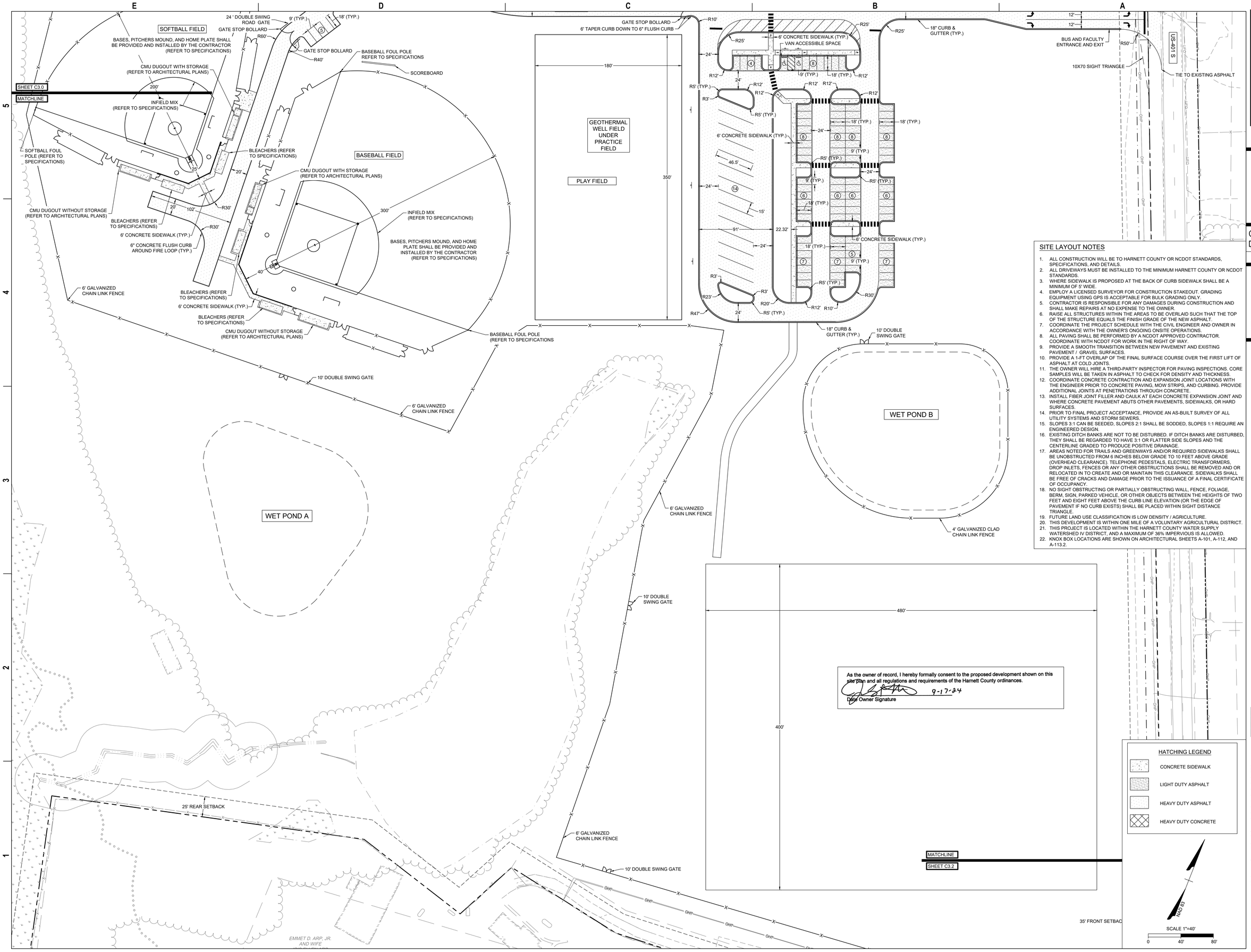

SITE LAYOUT NOTES

1. ALL CONSTRUCTION WILL BE TO HARNETT COUNTY OR NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS.
2. ALL DRIVEWAYS MUST BE INSTALLED TO THE MINIMUM HARNETT COUNTY OR NCDOT STANDARDS.
3. WHERE SIDEWALK IS PROPOSED AT THE BACK OF CURB SIDEWALK SHALL BE A MINIMUM OF 5' WIDE.
4. EMPLOY A LICENSED SURVEYOR FOR CONSTRUCTION STAKEOUT. GRADING EQUIPMENT USING GPS IS ACCEPTABLE FOR BULK GRADING ONLY.
5. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
6. RAISE ALL STRUCTURES WITHIN THE AREAS TO BE OVERLAID SUCH THAT THE TOP OF THE STRUCTURE EQUALS THE FINISH GRADE OF THE NEW ASPHALT.
7. COORDINATE THE PROJECT SCHEDULE WITH THE CIVIL ENGINEER AND OWNER IN ACCORDANCE WITH THE OWNER'S ONGOING ONSITE OPERATIONS.
8. ALL PAVING SHALL BE PERFORMED BY A NCDOT APPROVED CONTRACTOR. COORDINATE WITH NCDOT FOR WORK IN THE RIGHT OF WAY.
9. PROVIDE A SMOOTH TRANSITION BETWEEN NEW PAVEMENT AND EXISTING PAVEMENT / GRAVEL SURFACES.
10. PROVIDE A 1-FT OVERLAP OF THE FINAL SURFACE COURSE OVER THE FIRST LIFT OF ASPHALT AT COLD JOINTS.
11. THE OWNER WILL HIRE A THIRD-PARTY INSPECTOR FOR PAVING INSPECTIONS. CORE SAMPLES WILL BE TAKEN IN ASPHALT TO CHECK FOR DENSITY AND THICKNESS.
12. COORDINATE CONCRETE CONTRACTION AND EXPANSION JOINT LOCATIONS WITH THE ENGINEER PRIOR TO CONCRETE PAVING, MOW STRIPS, AND CURBING. PROVIDE ADDITIONAL JOINTS AT PENETRATIONS THROUGH CONCRETE.
13. INSTALL FIBER JOINT FILLER AND CAULK AT EACH CONCRETE EXPANSION JOINT AND WHERE CONCRETE PAVEMENT ABUTS OTHER PAVEMENTS, SIDEWALKS, OR HARD SURFACES.
14. PRIOR TO FINAL PROJECT ACCEPTANCE, PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY SYSTEMS AND STORM SEWERS.
15. SLOPES 3:1 CAN BE SEEDED, SLOPES 2:1 SHALL BE SODDED, SLOPES 1:1 REQUIRE AN ENGINEERED DESIGN.
16. EXISTING DITCH BANKS ARE NOT TO BE DISTURBED. IF DITCH BANKS ARE DISTURBED, THEY SHALL BE REGARDED TO HAVE 3:1 OR FLATTER SIDE SLOPES AND THE CENTERLINE GRADED TO PRODUCE POSITIVE DRAINAGE.
17. AREAS NOTED FOR TRAILS AND GREENWAYS AND/OR REQUIRED SIDEWALKS SHALL BE UNOBSTRUCTED FROM 6 INCHES BELOW GRADE TO 10 FEET ABOVE GRADE (OVERHEAD CLEARANCE). TELEPHONE PEDESTALS, ELECTRIC TRANSFORMERS, DROP INLETS, FENCES OR ANY OTHER OBSTRUCTIONS SHALL BE REMOVED AND OR RELOCATED IN TO CREATE AND OR MAINTAIN THIS CLEARANCE. SIDEWALKS SHALL BE FREE OF CRACKS AND DAMAGE PRIOR TO THE ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY.
18. NO SIGHT OBSTRUCTING OR PARTIALLY OBSTRUCTING WALL, FENCE, FOLIAGE, BERM, SIGN, PARKED VEHICLE, OR OTHER OBJECTS BETWEEN THE HEIGHTS OF TWO FEET AND EIGHT FEET ABOVE THE CURB LINE ELEVATION (OR THE EDGE OF PAVEMENT IF NO CURB EXISTS) SHALL BE PLACED WITHIN SIGHT DISTANCE TRIANGLE.
19. FUTURE LAND USE CLASSIFICATION IS LOW DENSITY / AGRICULTURE.
20. THIS DEVELOPMENT IS WITHIN ONE MILE OF A VOLUNTARY AGRICULTURAL DISTRICT.
21. THIS PROJECT IS LOCATED WITHIN THE HARNETT COUNTY WATER SUPPLY WATERSHED IV DISTRICT, AND A MAXIMUM OF 36% IMPERVIOUS IS ALLOWED.
22. KNOX BOX LOCATIONS ARE SHOWN ON ARCHITECTURAL SHEETS A-101, A-112, AND A-113.2.

HATCHING LEGEND

- CONCRETE SIDEWALK
- LIGHT DUTY ASPHALT
- HEAVY DUTY ASPHALT
- HEAVY DUTY CONCRETE

NORTH CAROLINA PROFESSIONAL SEAL 045892 ENGINEER William P. Ahrnsbrak 12-13-24

CONSTRUCTION DOCUMENTS

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Harnett County Schools

FLATWOODS MIDDLE SCHOOL

3544 US 401 S
Lillington, NC 27546

ENERGY STAR PARTNER

No.	Date	Description
1	12-06-24	NCDOX CD
2	12-13-24	CD REVISIONS
3	12-06-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24
PROJECT #: 63089
DRAWN BY: JG
CHECKED BY: WA

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SITE PLAN

C3.1

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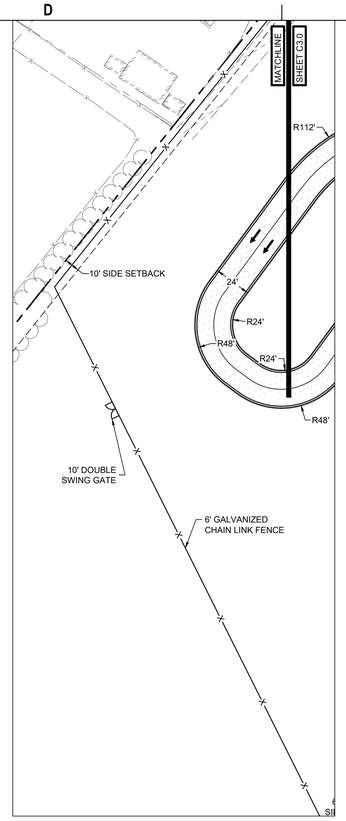
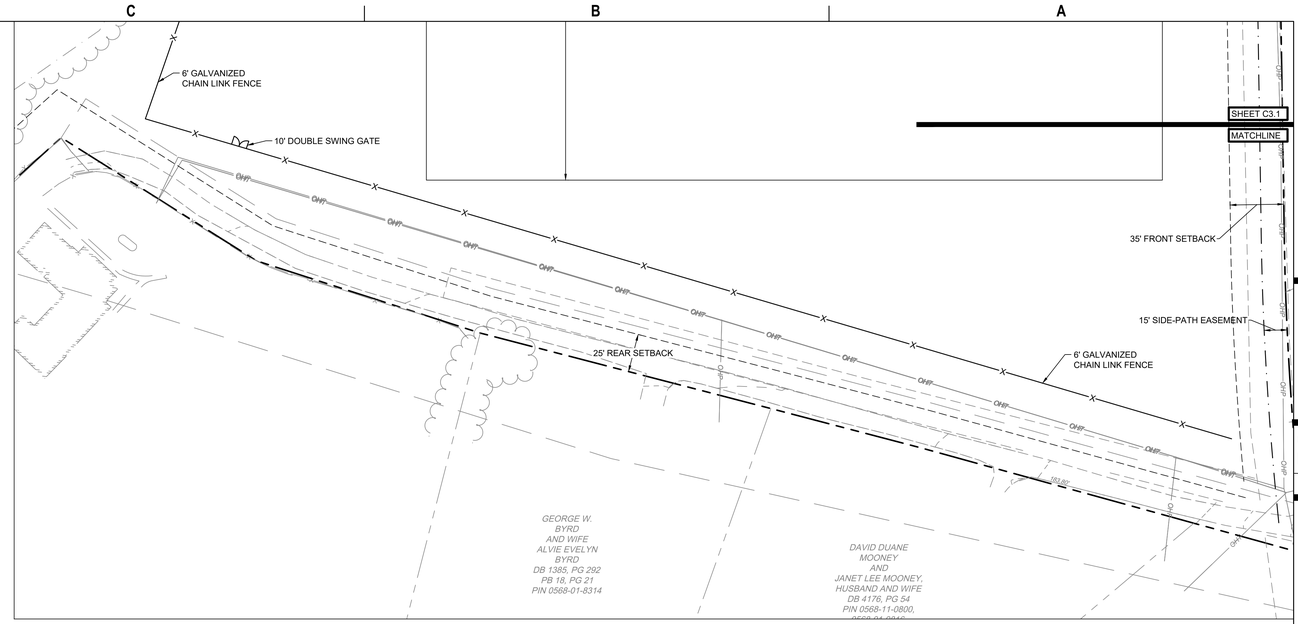
9-17-24

Date Owner Signature





SITE LAYOUT NOTES

1. ALL CONSTRUCTION WILL BE TO HARNETT COUNTY OR NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS.
2. ALL DRIVEWAYS MUST BE INSTALLED TO THE MINIMUM HARNETT COUNTY OR NCDOT STANDARDS.
3. WHERE SIDEWALK IS PROPOSED AT THE BACK OF CURB SIDEWALK SHALL BE A MINIMUM OF 5' WIDE.
4. EMPLOY A LICENSED SURVEYOR FOR CONSTRUCTION STAKEOUT. GRADING EQUIPMENT USING GPS IS ACCEPTABLE FOR BULK GRADING ONLY.
5. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
6. RAISE ALL STRUCTURES WITHIN THE AREAS TO BE OVERLAID SUCH THAT THE TOP OF THE STRUCTURE EQUALS THE FINISH GRADE OF THE NEW ASPHALT.
7. COORDINATE THE PROJECT SCHEDULE WITH THE CIVIL ENGINEER AND OWNER IN ACCORDANCE WITH THE OWNER'S ONGOING ONSITE OPERATIONS.
8. ALL PAVING SHALL BE PERFORMED BY A NCDOT APPROVED CONTRACTOR. COORDINATE WITH NCDOT FOR WORK IN THE RIGHT OF WAY.
9. PROVIDE A SMOOTH TRANSITION BETWEEN NEW PAVEMENT AND EXISTING PAVEMENT / GRAVEL SURFACES.
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HATCHING LEGEND

- CONCRETE SIDEWALK
- LIGHT DUTY ASPHALT
- HEAVY DUTY ASPHALT
- HEAVY DUTY CONCRETE

NORTH

SCALE 1"=40'

0 40' 80'

[redacted]

NORTH CAROLINA PROFESSIONAL SEAL 045892 ENGINEER William P. Ammon 12-13-24

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Harnett County Schools

FLATWOODS MIDDLE SCHOOL

3544 US 401 S
Lillington, NC 27546

ENERGY STAR PARTNER

No.	Date	Description
1	12-06-24	NCDOT CD
2	12-13-24	CD REVISIONS
3	12-06-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24

PROJECT #: 63089
DRAWN BY: JG
CHECKED BY: WA

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SITE PLAN

C3.2

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JOEL JOHNSON ROAD
SR-2034

10X70 SIGHT TRIANGLE

As the owner of record, I hereby formally consent to the proposed development shown on this site plan and all regulations and requirements of the Harnett County ordinances.

9-17-24
Date Owner Signature

FLATWOODS
MIDDLE SCHOOL
FFE: 162'

US-401 S

NAD 83

SCALE 1"=40'
0 40' 80'

GENERAL SIGNAGE AND STRIPING NOTES

1. ALL SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF EACH OF THE FOLLOWING AND AMENDMENTS AND SUPPLEMENTS THERETO:
   1.1. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
   1.2. NORTH CAROLINA DEPARTMENT OF TRANSPORTATION ROADWAY STANDARDS.
   1.3. THE 2003 INTERNATIONAL FIRE CODE.
2. SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE MODIFIED IN THE FIELD TO AVOID CONFLICT WITH UNDERGROUND UTILITIES OR OTHER OBSTRUCTIONS AND TO COMPLY WITH STANDARDS REFERENCED IN NOTE 1 ABOVE.
3. PROVIDE ALL SIGNS, SIGN POSTS AND PAVEMENT MARKINGS.
4. ALL PAVEMENT MARKINGS WITHIN THE NCDOT PUBLIC RIGHT OF WAY SHALL BE 0.125 MIL THERMOPLASTIC

FOR WORK WITHIN THE NCDOT RIGHT OF WAY:
5. ALL PAVING SHALL BE PERFORMED BY A NCDOT APPROVED CONTRACTOR.
6. ALL PAVEMENT MARKINGS SHALL BE PERFORMED BY A NCDOT APPROVED CONTRACTOR.
7. THIS PROJECT IS SUBJECT TO SUPERPAVE MIX REQUIREMENTS AND FILL IMPLEMENTATION OF THE QMS (QUALITY MANAGEMENT SYSTEM) SPECIFICATIONS FOR ALL ASPHALT PAVEMENTS.
8. THE CONTRACTOR MUST NOTIFY NCDOT 48 HOURS IN ADVANCE PRIOR TO BEGINNING WORK.

LEGEND

1. 2' WIDE PAINTED WHITE STOP BAR
2. 6' LONG BY 2' WIDE PAINT STRIPES 4' ON CENTER
3. PAINTED WHITE DIRECTION ARROWS
4. NO PARKING - FIRE LANE MARKING
5. 4" WIDE WHITE SOLID PAINT STRIPE
6. ACCESSIBLE SPACES SIGNS INCLUDING VAN ACCESSIBLE
7. NCDOT R1-1 STOP SIGN
8. 4" WIDE WHITE SOLID PAINT STRIPES, 2' ON CENTER AND ON A 45° ANGLE
9. SCHOOL MONUMENT SIGN, BY OTHERS
10. PASSENGER LOADING ZONE
11. SCHOOL DIRECTIONAL SIGNAGE
12. VISITOR PARKING SIGNAGE
13. PARKING SPACE STRIPING
14. DO NOT ENTER SIGNAGE

1. ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.

SIGN	MUTCD STD	SIZE
STOP	R1-1	30"X30"
ONE WAY	R6-2	24"X30"
DO NOT ENTER (DNE)	R5-1	30"X30"
NO PARKING ANY LEFT TIME FIRE LANE	-	12"X18"
LEFT TURN ONLY	R3-5L	30"X36"

2. ALL SIGNS SHALL BE MOUNTED WITH 7' MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 3 LB. GALV. STEEL U-CHANNEL POST SET IN 3' DEEP x 12" DIA. CONCRETE FOOTING.
3. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS.

MARKING	NCDOT STD.	SIZE	COLOR
PARKING SPACES	-	4"	WHITE
CROSSWALK	1205.07(HI-VIS)	24"	WHITE
CROSSWALK	1205.07(STANDARD)	8"	WHITE
NO PARKING - FIRE LANE *	-	4"	YELLOW
SKIP	1205.01	4"	WHITE
MINI-SKIP (3'-9' TYPE)	1205.01	4"	WHITE
SOLID	1205.01	4"	WHITE
DIAGONAL	1205.09	8"	YELLOW
STOP BAR	-	24"	WHITE
DIRECTIONAL ARROW	1205.08	STD.	WHITE

** NO PARKING - FIRE LAND MARKING SHALL BE THERMOPLASTIC AND CONSIST OF A 4" SOLID YELLOW STRIPE AND 8" HIGH YELLOW TEXT "NO PARKING - FIRE LAND" AT 40' INTERVALS

4. ALL PAVEMENT MARKINGS SHALL BE ALKYD-RESIN TYPE PAINT.
5. ALL SIGNAGE SHALL BE FIELD STAKED A THE LOCATIONS APPROVED BY TIMMONS GROUP PRIOR TO SIGN INSTALLATION
6. CENTER ALL DIRECTIONAL ARROWS WITHIN TRAVEL LANE.
7. COORDINATE FIRE LANE MARKINGS WITH HARNETT COUNTY FIRE MARSHAL.
8. ALL SIGNS SHALL USE PRISMATIC SHEETING THAT MEETS MINIMUM REFLECTIVITY STANDARDS FOUND IN THE LATEST EDITION OF THE MUTCD.

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045892 William P. Ahmen 12-13-24

CONSTRUCTION DOCUMENTS

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Harnett County Schools

FLATWOODS MIDDLE SCHOOL

3544 US 401 S
Lillington, NC 27546

ENERGY STAR PARTNER

No.	Date	Description
1	12-06-24	NCDOI CD
2	12-13-24	CD REVISIONS
3	12-06-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24
PROJECT #: 63089
DRAWN BY: JG
CHECKED BY: WA

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STRIPING & SIGNAGE PLAN

C3.3

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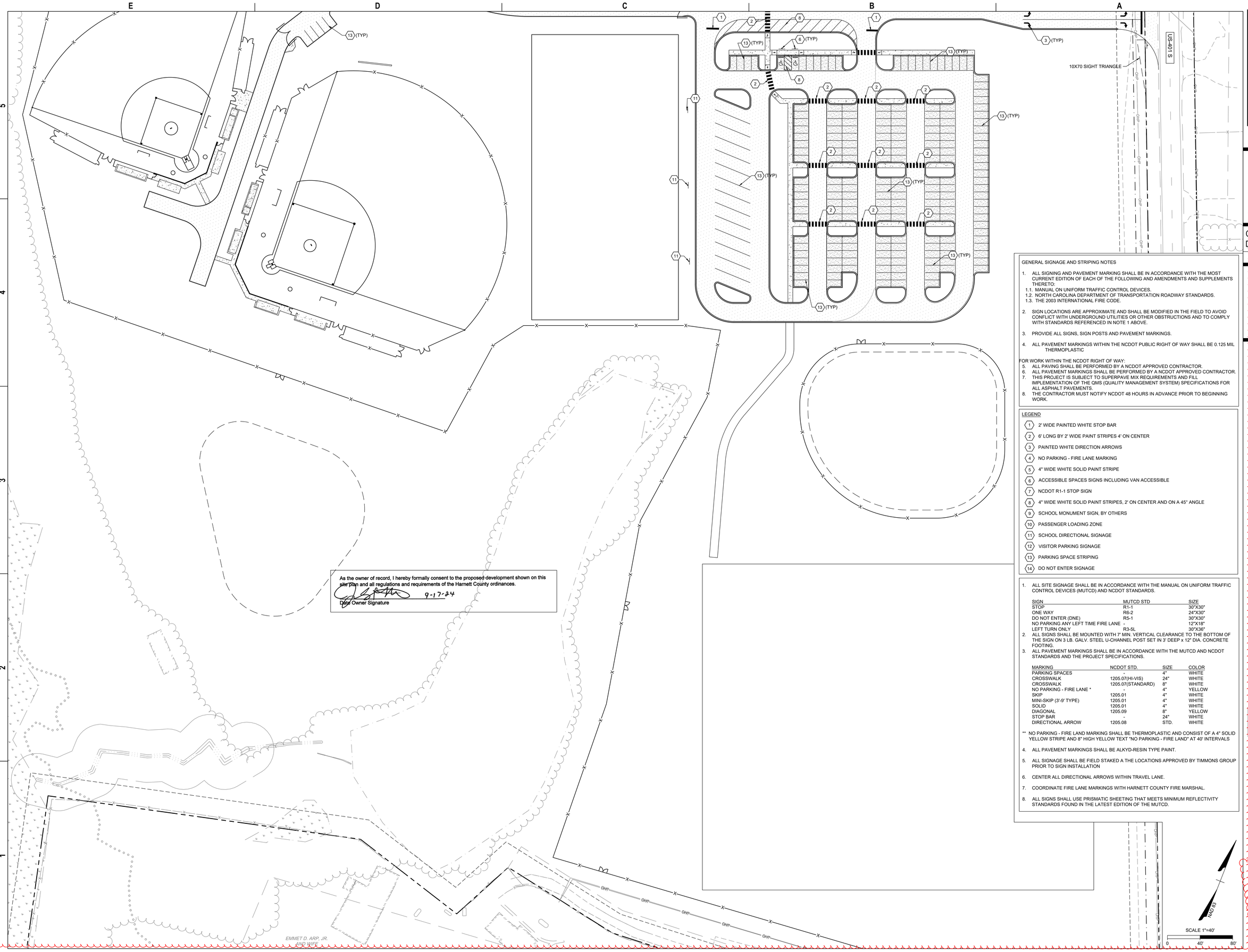

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CROSSWALK	1205.07(STANDARD)	8"	WHITE
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NORTH CAROLINA PROFESSIONAL SEAL 045892 ENGINEER William P. Ahmen 12-13-24

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STRIPING & SIGNAGE PLAN

C3.4

NAD 83

SCALE 1"=40'
0 40' 80'

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UTILITY NOTES

1. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
2. ALL UNDERGROUND FEATURES INDICATED ON THE PLANS SHOULD BE CONSIDERED APPROXIMATE IN LOCATION AND SHOULD BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. NOTIFY THE DESIGN ENGINEER IMMEDIATELY IF ANY CONFLICTS OR DISCREPANCIES ARE NOTED.
3. CONTRACTOR SHALL COORDINATE THE LOCATION OR RELOCATION OF ALL OVERHEAD AND UNDERGROUND COMMUNICATION LINES, ELECTRIC AND GAS SERVICE WITH THE APPROPRIATE UTILITY COMPANY AND/OR THE CITY PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL PROVIDE CONDUITS AS REQUIRED FOR THESE UTILITIES UNDER PAVED AREAS.
4. ALL ILLUSTRATED UTILITY INFRASTRUCTURE IS DIAGRAMMATIC AND MAY NOT REPRESENT THE ACTUAL SIZE OF INFRASTRUCTURE. NOTIFY THE DESIGN ENGINEER IMMEDIATELY IF ANY CONFLICTS OR DISCREPANCIES ARE NOTED.
5. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HARNETT COUNTY AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
6. CURB STOPS ARE REQUIRED AND SHALL BE LOCATED 1 FOOT FROM THE METER BOX. CURB STOPS SHALL BE INSTALLED IN A CURB STOP BOX AS MANUFACTURED BY FORD, A.Y. McDONALD, OR TRUMBULL.
7. SERVICE SADDLES SHALL BE ALL BRONZE WITH DOUBLE BRONZE STRAPS WITH A NEOPRENE "O" RING GASKET ATTACHED TO THE BODY.
8. ALL WATER METERS SHALL BE PROVIDED AND INSTALLED BY HARNETT REGIONAL WATER.
9. A 3' CLEAR SPACE SHALL BE MAINTAINED AROUND ALL WATER METERS.
10. ALL 6" SANITARY SEWER SERVICES CONNECTIONS SHALL BE MADE INTO MANHOLES ONLY.
11. UTILITY TRENCHES SHALL BE CUT AND PAVEMENT REPAIRED TO HARNETT COUNTY STANDARDS.
12. ALL DISTURBED HARDSCAPE AND LANDSCAPING (CONCRETE, ASPHALT, BRICK, TREES, SHRUBS, ETC) SHALL BE REPLACED ACCORDING TO THE HARNETT COUNTY AND NCDOT STANDARDS AND SPECIFICATIONS.
13. BOUNDARY AND SURVEY INFORMATION IS TAKEN FROM A SURVEY BY TIMMONS GROUP.
14. ALL CLEANOUTS LOCATED IN PAVED AREAS ARE REQUIRED TO BE LOCATED IN A TRAFFIC LOAD BEARING MINI MANHOLE.
15. ALL NEW UTILITY LINES (POWER, CABLE, ETC.) MUST BE UNDERGROUND
16. ALL WATERLINES BENEATH ASPHALT OR CONCRETE SHALL BE DUCTILE IRON. WATERLINES NOT UNDER ASPHALT OR CONCRETE MAY BE C-900 PVC.
17. REFER TO PLUMBING PLANS FOR GAS METER LOCATION.
18. THE EXISTING GAS MAIN IS UNKOWN AT THIS TIME. CONTRACTOR TO COORDINATE WITH GAS AUTHORITY ON TIE IN LOCATION.
19. ALL WATERMAINS SHALL BE 8" IN DIAMETER UNLESS OTHERWISE NOTED.
20. WATER AND WASTEWATER CONSTRUCTION AND TIE-INS WILL NEED TO BE COORDINATED AND INSPECTED BY HRW CONSTRUCTION INSPECTOR CHAD EVERETT.

EASEMENTS:

1. WATER AND SANITARY SEWER MAINS SHALL BE LOCATED IN A 20' WIDE PUBLIC UTILITY EASEMENT. IN THE CASE OF UTILITES EXTENDING ADJACENT TO EACH OTHER THE EASEMENT MAY BE A VARIABLE WIDTH EASEMENT BUT NO LESS THAN 10' FROM EACH UTILITY LINE. WATER SERVICES UP TO THE METER AND FIRE HYDRANT ASSEMBLIES SHALL BE LOCATED IN A 10' WIDE PUBLIC UTILITY EASEMENT. SEE UTILITY PLANS FOR LOCATIONS OF EASEMENTS.
2. ALL PRIVATE STORM DRAINAGE PIPE WITH THE EXCEPTION OF SERVICE LINES TO BUILDINGS SHALL BE LOCATED IN A 20' PRIVATE STORM DRAINAGE EASEMENT. SEE GRADING AND STORM DRAINAGE PLANS FOR LOCATION OF EASEMENTS.
3. ANY STORM DRAINAGE PIPE EXTENDING FROM A PUBLIC RIGHT-OF-WAY INTO THE SITE SHALL BE LOCATED IN A 20' PUBLIC STORM DRAINAGE EASEMENT.

JOEL JOHNSON ROAD
SR-2034

6" x 6" TAPPING TEE w/ (1) GATE VALVE
6" x 8" REDUCER
EXISTING 6" WATERLINE
8" C-900 PVC WATERLINE
20' WATERMAIN EASEMENT
ALIGNMENT 1
ALIGNMENT 2
8" x 8" TEE w/ (3) GATE VALVES
FIRE HYDRANT ASSEMBLY W/ VALVE (TYP.)
8" DIP WATERLINE
8" x 6" FIRE HYDRANT ASSEMBLY W/ VALVE (TYP.)
STAND PIPE (REFER TO PLUMBING PLANS)
2" IRRIGATION WATER METER IN VAULT
2" RPZ BACKFLOW PREVENTER WITH HEATED ENCLOSURE
8" x 2" SERVICE SADDLE
2" x 1" REDUCER
1" DOMESTIC WATER METER IN VAULT
1" x 2" REDUCER
CAP (REFER TO IRRIGATION PLANS)
4" SANITARY LATERAL INV: 158.47' (28" BELOW FFE)
2" DOMESTIC WATER LATERAL INV: 36" BELOW FFE
FIELD HOUSE FFE: 160.80' (REFER TO ARCHITECTURAL PLANS)
4" PVC SANITARY SEWER LATERAL AT 1.04% MIN. SLOPE
GEOTHERMAL FIELD (REFER TO PLUMBING PLANS)
4" SANITARY LATERAL INV: 159.33' (32" BELOW FFE)
4" PVC SANITARY SEWER LATERAL AT 1.04% MIN. SLOPE
6" SANITARY LATERAL INV: 159.33' (32" BELOW FFE)
4" SANITARY LATERAL INV: 159.5' (30" BELOW FFE)
CLEANOUT (TYP.)
6" PVC SANITARY SEWER LATERAL AT 1.04% MIN. SLOPE
8" PVC FIRE SERVICE LINE INV: 36" BELOW FFE
4" PVC DOMESTIC WATER LINE INV: 36" BELOW FFE
4" PVC DOMESTIC WATER METER IN VAULT
4" PVC RPZ BACKFLOW PREVENTER WITH HEATED ENCLOSURE
8" RPDA BACKFLOW PREVENTER WITH HEATED ENCLOSURE & FDC MOUNTED
PIV
10' MIN. SEPARATION
30' UTILITY EASEMENT
8" x 4" TEE w/ (2) GATE VALVES
8" x 8" TEE w/ (2) GATE VALVES
FIRE HYDRANT ASSEMBLY W/ VALVE (TYP.)
MH 1
MH 2
MH 3
MH 4
6" SANITARY LATERAL INV: 154.58' (89" BELOW FFE)
6" PVC SANITARY LATERAL AT 1.04% MIN. SLOPE
TIE TO EXISTING MANHOLE EX MH 2 INV IN: 149.90'
SSMH RIM=164.42 IN=149.84-8" PVC OUT=149.80-8" PVC
18" RCP W/CONC INV=161.37
18" RCP INV=160.70
CLEANOUT (TYP)
4" PVC SANITARY SEWER LATERAL AT 1.04% MIN. SLOPE
20' WATERMAIN EASEMENT
FLATWOODS MIDDLE SCHOOL FFE: 162'
4" SANITARY LATERAL INV: 159.18' (33.81" BELOW FFE)
CLEANOUT (TYP)
4" SANITARY LATERAL INV: 158.83' (38" BELOW FFE)
REFER TO PLUMBING PLANS FOR GREASE INTERCEPTER DETAILS
4" SANITARY LATERAL INV: 157.92' (49" BELOW FFE)
4" SANITARY LATERAL INV: 159.42' (31" BELOW FFE)
CLEANOUT (TYP.)
8" DIP WATERLINE
6" PVC SANITARY SEWER LATERAL AT 1.04% MIN. SLOPE
20' SANITARY SEWER EASEMENT
ALIGNMENT 3
TIE TO EXISTING SANITARY MANHOLE EX MH 1
SSMH RIM=163.83 IN=148.58-8" PVC OUT=148.53-8" PVC
16" x 8" TAPPING TEE w/ (1) GATE VALVE
EXISTING 16" WATERLINE
20' WATERMAIN EASEMENT
SSMH RIM=165.79 IN=150.64-8" PVC OUT=150.60-8" PVC
15" RCP INV=165.97
18" RCP INV=164.35
15" RCP INV=164.28
US-401 S
NAD 83
SCALE 1"=40'
0 40' 80'

NORTH CARLINA PROFESSIONAL SEAL 045892 ENGINEER William P. Ahlman 12-13-24

CONSTRUCTION DOCUMENTS

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Harnett County Schools

FLATWOODS MIDDLE SCHOOL

3544 US 401 S
Lillington, NC 27546

ENERGY STAR PARTNER

No.	Date	Description
1	12-06-24	NCDOI CD
2	12-13-24	CD REVISIONS
3	12-06-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24
PROJECT #: 63089
DRAWN BY: JG
CHECKED BY: WA

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UTILITY PLAN

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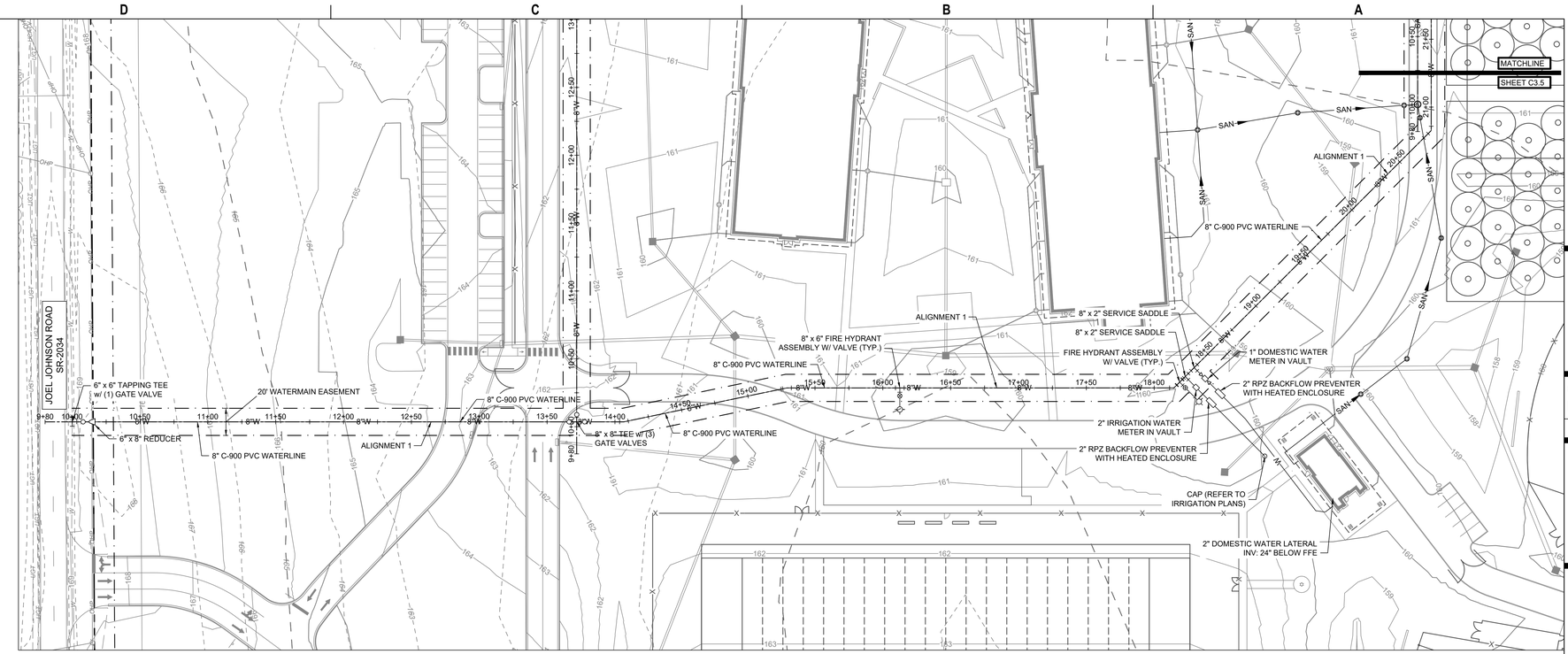
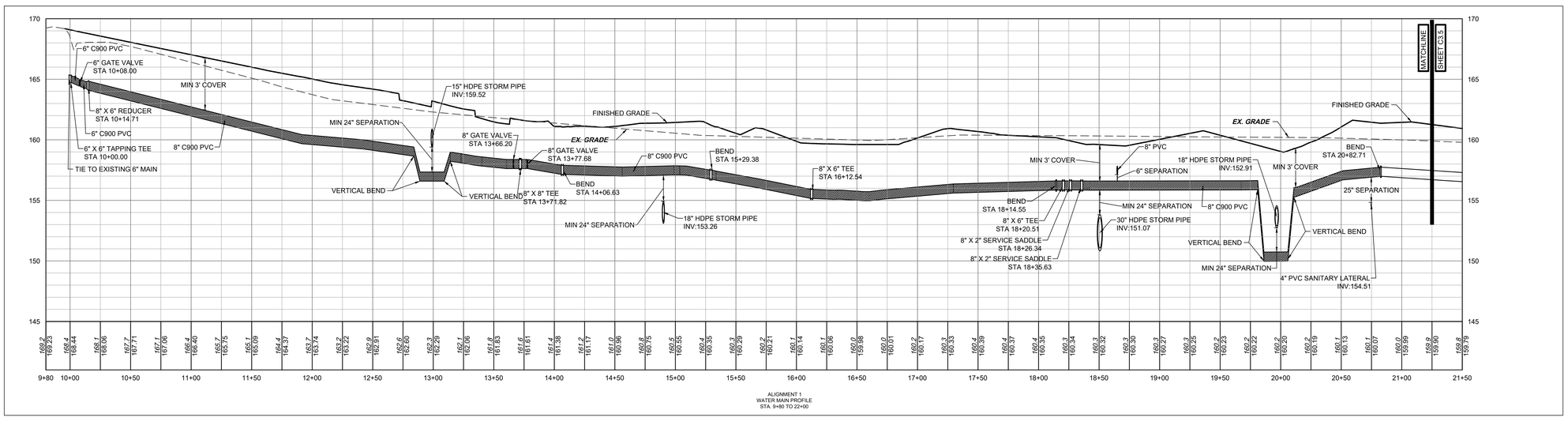
17. ALL WATERMAINS SHALL BE 8" IN DIAMETER UNLESS OTHERWISE NOTED.



KEY

DUCTILE IRON WATERLINE

C-900 PVC WATERLINE



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PROFILE SCALE

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045892 William P. Ahrnen 12-13-24

CONSTRUCTION DOCUMENTS

Harnett County Schools

FLATWOODS MIDDLE SCHOOL

3544 US 401 S
Lillington, NC 27546

ENERGY STAR PARTNER

No.	Date	Description
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PROJECT #: 63089
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UTILITY PROFILES

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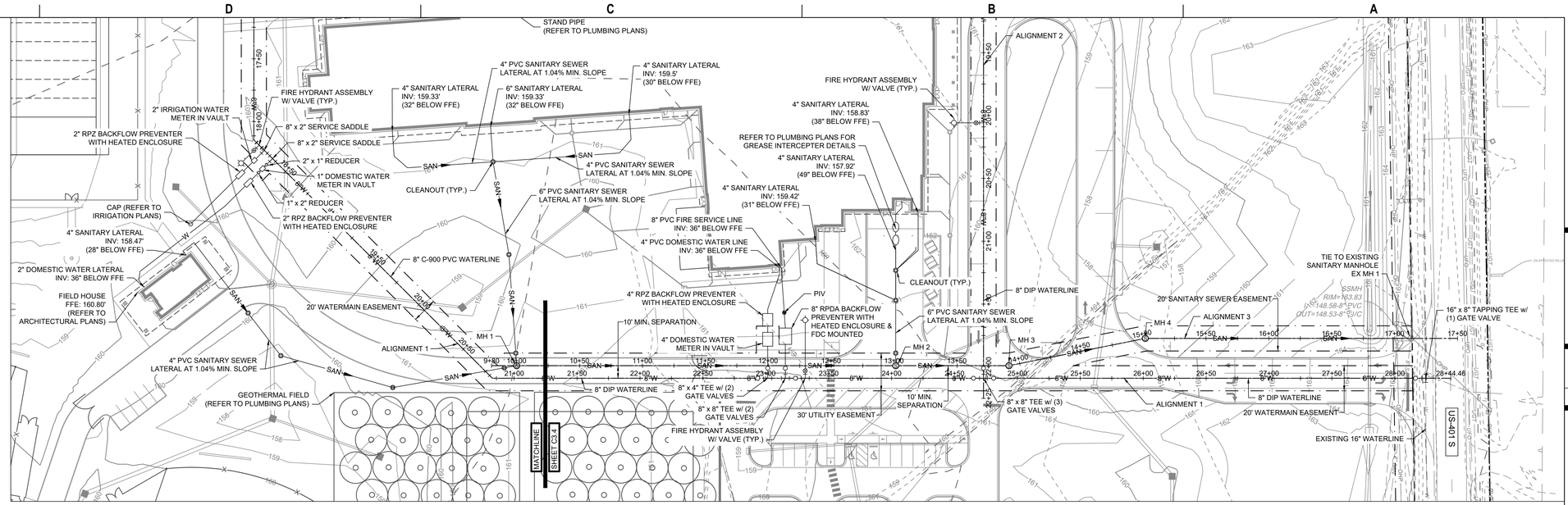
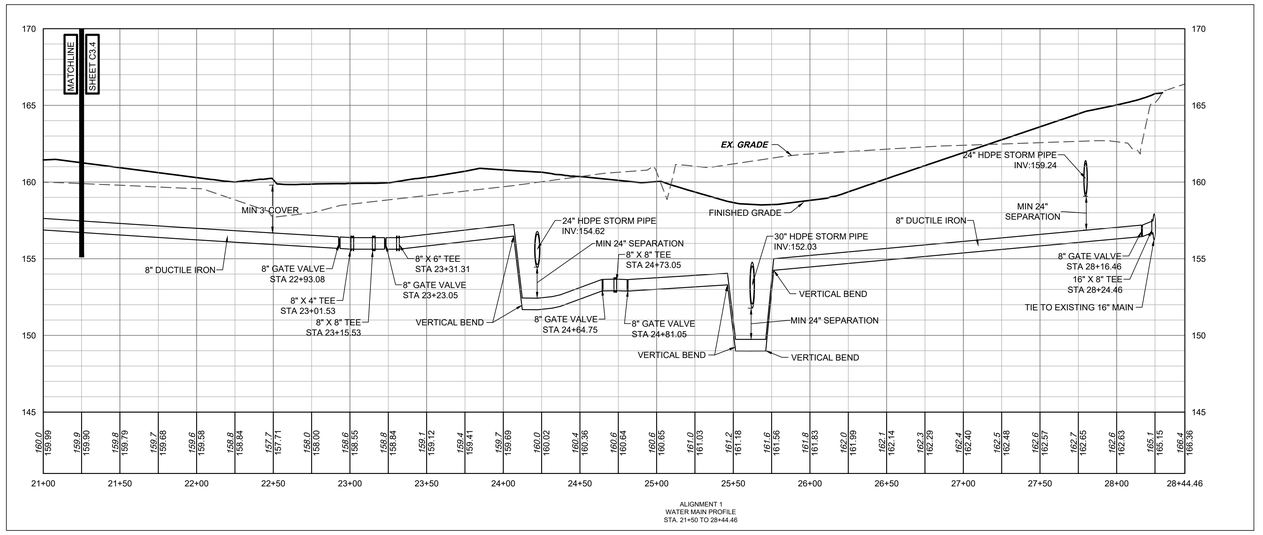


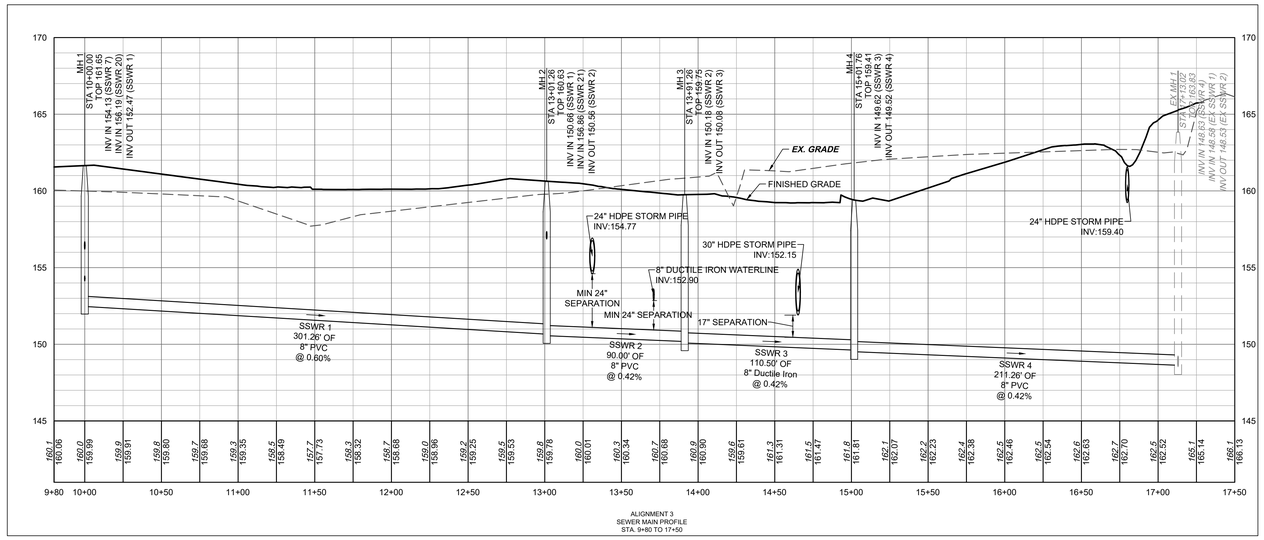
KEY

DUCTILE IRON WATERLINE

C-900 PVC WATERLINE



ALIGNMENT 1
WATER MAIN PROFILE
STA. 21+50 TO 28+44.46



ALIGNMENT 3
SEWER MAIN PROFILE
STA. 9+80 TO 17+50

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CONSTRUCTION DOCUMENTS

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045892 William P. Ahrnen 12-13-24

Harnett County Schools

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Lillington, NC 27546

ENERGY STAR PARTNER

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DRAWN BY: JG
CHECKED BY: WA

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UTILITY PROFILES

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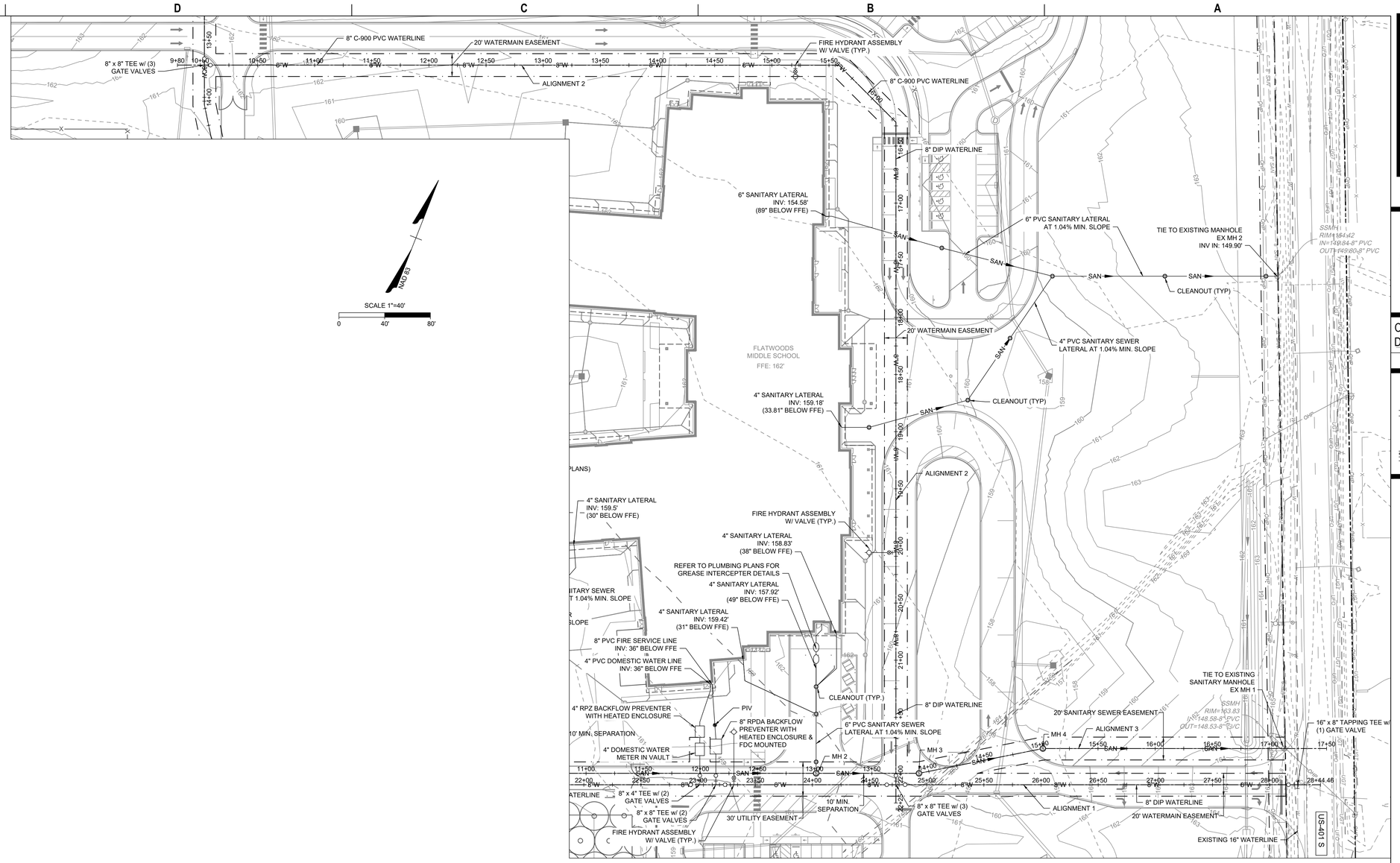
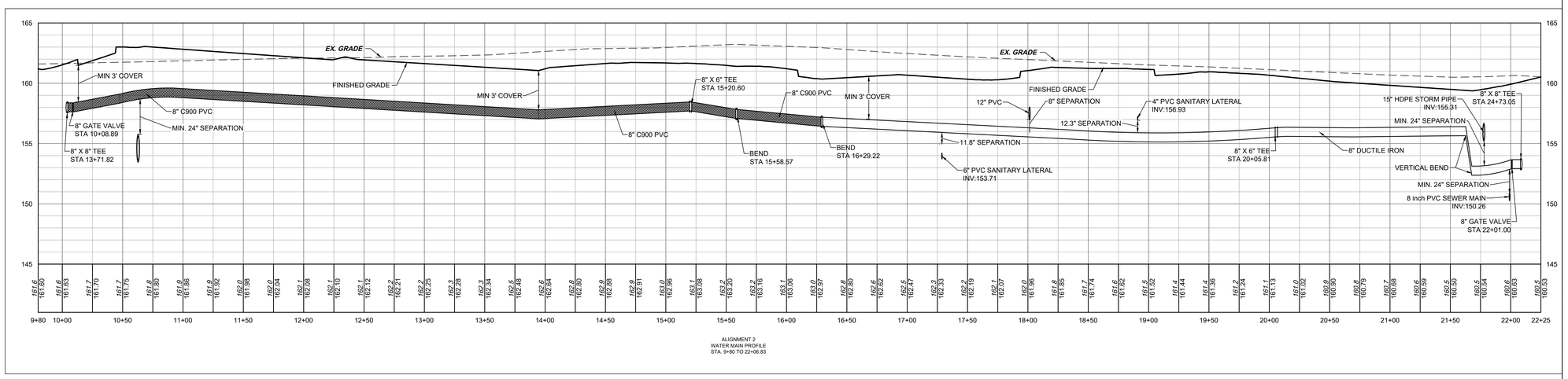
KEY

DUCTILE IRON WATERLINE

C-900 PVC WATERLINE





ALIGNMENT 2
WATER MAIN PROFILE
STA. 9+80 TO 22+06.83

4
0
0 40
PROFILE SCALE

NORTH CAROLINA PROFESSIONAL SEAL 045892 ENGINEER William P. Altman 12-13-24

CONSTRUCTION DOCUMENTS

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FLATWOODS MIDDLE SCHOOL

Harnett County Schools

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Lillington, NC 27546

ENERGY STAR PARTNER

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2	12-13-24	CD REVISIONS
3	12-06-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24
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DRAWN BY: JG
CHECKED BY: WA

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UTILITY PROFILES

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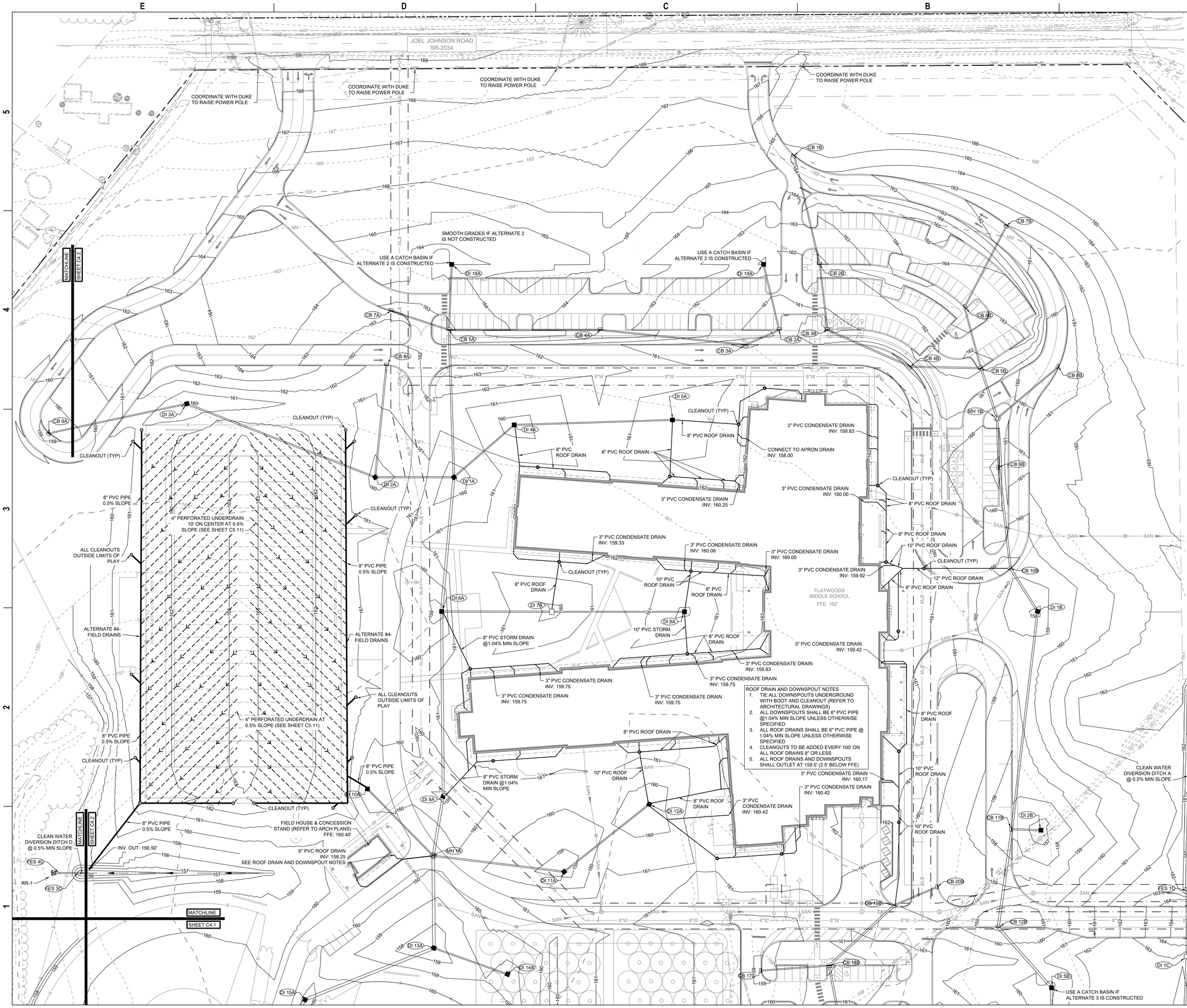

GRADING AND STORM DRAINAGE NOTES

1. CONTRACTOR SHALL CALL "NORTH CAROLINA ONE CALL" (811) AT LEAST 3-12 BUSINESS DAYS PRIOR TO DIGGING TO HAVE EXISTING UTILITIES LOCATED. REPORT ANY DISCREPANCIES TO THE ENGINEER.
2. CONTRACTOR TO COORDINATE ACTIVITIES WITH UTILITY COMPANIES INVOLVED IN ANY RELATED RELOCATION (I.E. POWER POLES, TELEPHONE PEDESTALS, WATER METERS, ETC.).
3. EXISTING UTILITIES SHOWN ARE BASED ON FIELD SURVEYS AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
4. THE CATCH BASINS AND YARD INLETS SHALL BE CONSTRUCTED IN THE LOCATIONS SHOWN UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR REPORTING ANY DISCREPANCIES IN THE CATCH BASIN ELEVATIONS OR THE PROPOSED PIPE SLOPES TO THE ENGINEER. THE CONTRACTOR IS ALSO RESPONSIBLE TO REPORT ANY CONFLICTS BETWEEN ANY UTILITY, STORM DRAIN LINE, WATER LINE, SEWER LINE OR ANY OTHER PROPOSED OR EXISTING STRUCTURE TO THE ENGINEER.
5. A LAND DISTURBING PERMIT WILL BE REQUIRED PRIOR TO THE COMMENCEMENT OF ANY LAND-DISTURBING ACTIVITIES.
6. ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, VALVE BOXES, CLEANOUTS, ETC. SHALL BE ADJUSTED AS NEEDED TO MATCH FINISHED GRADE.
7. ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNER'S INDEPENDENT TESTING LABORATORY.
8. ALL SPOT ELEVATIONS INDICATED ARE AT TOP OF CURB UNLESS NOTED OTHERWISE. ALL ELEVATIONS ARE BASED ON VERTICAL DATUM NAVD88.
9. A PRE-CONSTRUCTION MEETING MUST BE SCHEDULED PRIOR TO ANY WORK, GRADING OR INSTALLATION OF EROSION CONTROL MEASURES.
10. ALL HANDICAP PARKING SPACES AND STRIPED ACCESSIBILITY AISLES ARE TO HAVE NO MORE THAN A 1:50 (2.0%) SLOPE IN ALL DIRECTIONS. ALL SIDEWALKS ARE TO HAVE NO MORE THAN A 1:20 (5.0%) SLOPE FOR THE LENGTH OF THE SIDEWALK AND NO MORE THAN A 1:50 (2.0%) SLOPE FOR THE WIDTH OF THE SIDEWALK.
11. CONTRACTOR TO IDENTIFY ALL NECESSARY SPILL CURB SECTION LOCATIONS AND INSTALL TO ENSURE POSITIVE DRAINAGE TO STORM STRUCTURES.
12. IF CONTRACTOR NOTICES ANY DISCREPANCIES IN ANY OF THESE SLOPE REQUIREMENTS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER PRIOR TO POURING ANY CONCRETE SO THAT A SOLUTION CAN BE FOUND.
13. SPOT ELEVATIONS ARE GIVEN AT THE MAJORITY OF THE MAJOR BREAK POINTS BUT IT SHOULD NOT BE ASSUMED THAT ALL NECESSARY SPOT ELEVATIONS ARE SHOWN. DUE TO SPACE LIMITATIONS, THERE MAY BE OTHER CRITICAL SPOTS NOT LABELED THAT SHOULD BE TAKEN INTO CONSIDERATION. THE CONTRACTOR SHALL REVIEW THE GRADING PLAN IN DETAIL AND SHALL ENSURE THAT ALL CRITICAL GRADE POINTS ARE STAKED AND FOLLOWED TO PROVIDE POSITIVE DRAINAGE.
14. EXISTING VEGETATION WITHIN TREE PROTECTIVE AREAS SHALL REMAIN UNDISTURBED UNLESS NOTED OTHERWISE. ANY AND ALL LANDSCAPING AND EXISTING TREES AND SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR USING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
15. THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE. THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY THE EROSION CONTROL INSPECTOR OR THE ENGINEER.
16. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
17. ALL CATCH BASINS MUST BE MARKED "DUMP NO WASTE DRAINS TO STREAM" OR EQUIVALENT.
18. TIE INTO EXISTING ROADS.
19. SCM A AND SCM B SHALL BE MAINTAINED BY THE HARNETT COUNTY BOARD OF EDUCATION AFTER FINAL COMPLETION.
20. THE CONTRACTOR SHALL COORDINATE SPORT FIELD DRAINAGE AND IRRIGATION INSTALLATION.

NORTH CAROLINA PROFESSIONAL 12-13-24 SEAL 045892 ENGINEER William P. Altman

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GRADING PLAN

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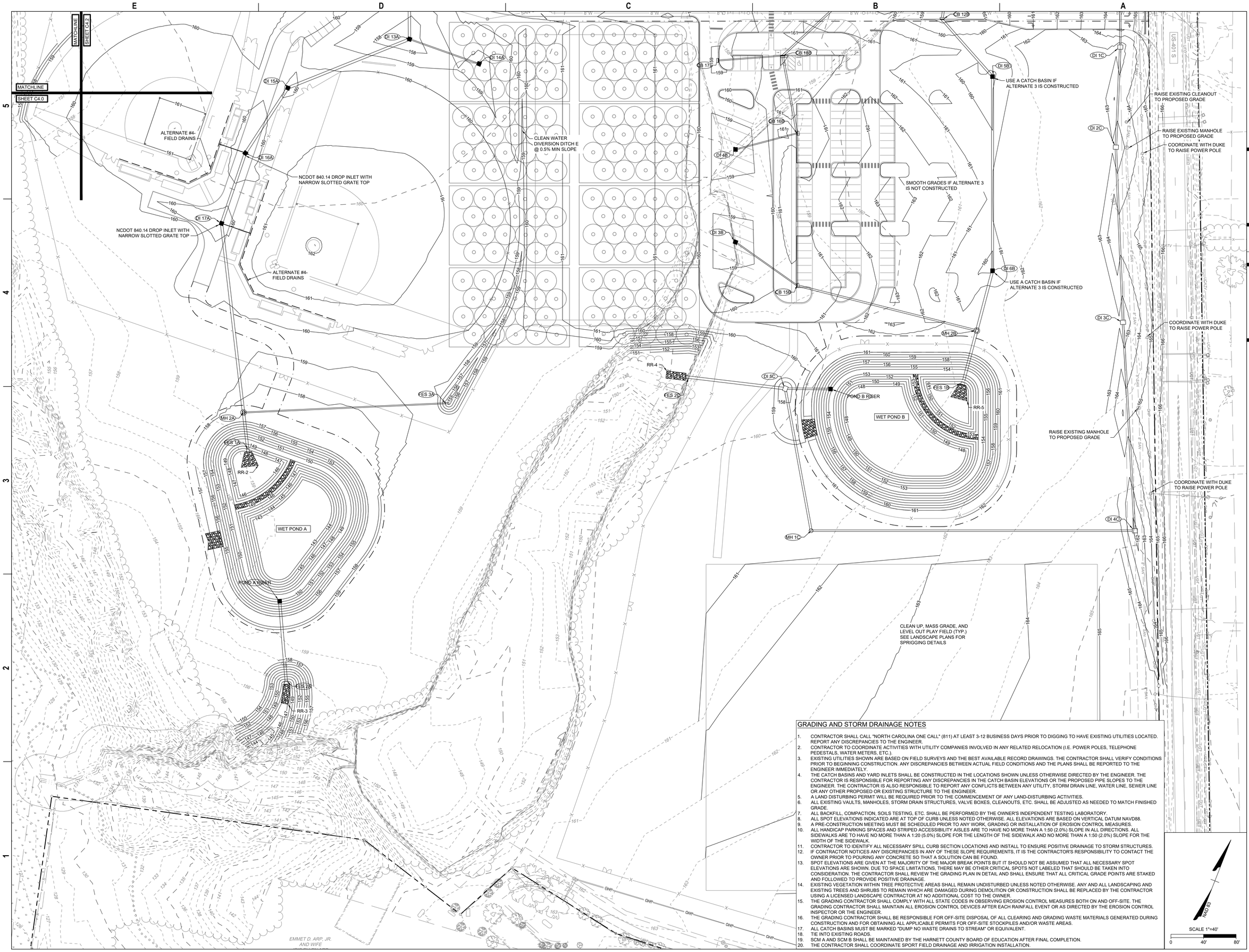

GRADING AND STORM DRAINAGE NOTES

1. CONTRACTOR SHALL CALL "NORTH CAROLINA ONE CALL" (811) AT LEAST 3-12 BUSINESS DAYS PRIOR TO DIGGING TO HAVE EXISTING UTILITIES LOCATED. REPORT ANY DISCREPANCIES TO THE ENGINEER.
2. CONTRACTOR TO COORDINATE ACTIVITIES WITH UTILITY COMPANIES INVOLVED IN ANY RELATED RELOCATION (I.E. POWER POLES, TELEPHONE PEDESTALS, WATER METERS, ETC.).
3. EXISTING UTILITIES SHOWN ARE BASED ON FIELD SURVEYS AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
4. THE CATCH BASINS AND YARD INLETS SHALL BE CONSTRUCTED IN THE LOCATIONS SHOWN UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR REPORTING ANY DISCREPANCIES IN THE CATCH BASIN ELEVATIONS OR THE PROPOSED PIPE SLOPES TO THE ENGINEER. THE CONTRACTOR IS ALSO RESPONSIBLE TO REPORT ANY CONFLICTS BETWEEN ANY UTILITY, STORM DRAIN LINE, WATER LINE, SEWER LINE OR ANY OTHER PROPOSED OR EXISTING STRUCTURE TO THE ENGINEER.
5. A LAND DISTURBING PERMIT WILL BE REQUIRED PRIOR TO THE COMMENCEMENT OF ANY LAND-DISTURBING ACTIVITIES.
6. ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, VALVE BOXES, CLEANOUTS, ETC. SHALL BE ADJUSTED AS NEEDED TO MATCH FINISHED GRADE.
7. ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNER'S INDEPENDENT TESTING LABORATORY.
8. ALL SPOT ELEVATIONS INDICATED ARE AT TOP OF CURB UNLESS NOTED OTHERWISE. ALL ELEVATIONS ARE BASED ON VERTICAL DATUM NAVD88.
9. A PRE-CONSTRUCTION MEETING MUST BE SCHEDULED PRIOR TO ANY WORK, GRADING OR INSTALLATION OF EROSION CONTROL MEASURES.
10. ALL HANDICAP PARKING SPACES AND STRIPED ACCESSIBILITY AISLES ARE TO HAVE NO MORE THAN A 1:50 (2.0%) SLOPE IN ALL DIRECTIONS. ALL SIDEWALKS ARE TO HAVE NO MORE THAN A 1:20 (5.0%) SLOPE FOR THE LENGTH OF THE SIDEWALK AND NO MORE THAN A 1:50 (2.0%) SLOPE FOR THE WIDTH OF THE SIDEWALK.
11. CONTRACTOR TO IDENTIFY ALL NECESSARY SPILL CURB SECTION LOCATIONS AND INSTALL TO ENSURE POSITIVE DRAINAGE TO STORM STRUCTURES.
12. IF CONTRACTOR NOTICES ANY DISCREPANCIES IN ANY OF THESE SLOPE REQUIREMENTS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER PRIOR TO POURING ANY CONCRETE SO THAT A SOLUTION CAN BE FOUND.
13. SPOT ELEVATIONS ARE GIVEN AT THE MAJORITY OF THE MAJOR BREAK POINTS BUT IT SHOULD NOT BE ASSUMED THAT ALL NECESSARY SPOT ELEVATIONS ARE SHOWN. DUE TO SPACE LIMITATIONS, THERE MAY BE OTHER CRITICAL SPOTS NOT LABELED THAT SHOULD BE TAKEN INTO CONSIDERATION. THE CONTRACTOR SHALL REVIEW THE GRADING PLAN IN DETAIL AND SHALL ENSURE THAT ALL CRITICAL GRADE POINTS ARE STAKED AND FOLLOWED TO PROVIDE POSITIVE DRAINAGE.
14. EXISTING VEGETATION WITHIN TREE PROTECTIVE AREAS SHALL REMAIN UNDISTURBED UNLESS NOTED OTHERWISE. ANY AND ALL LANDSCAPING AND EXISTING TREES AND SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR USING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
15. THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE. THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY THE EROSION CONTROL INSPECTOR OR THE ENGINEER.
16. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
17. ALL CATCH BASINS MUST BE MARKED "DUMP NO WASTE DRAINS TO STREAM" OR EQUIVALENT.
18. TIE INTO EXISTING ROADS.
19. SCM A AND SCM B SHALL BE MAINTAINED BY THE HARNETT COUNTY BOARD OF EDUCATION AFTER FINAL COMPLETION.
20. THE CONTRACTOR SHALL COORDINATE SPORT FIELD DRAINAGE AND IRRIGATION INSTALLATION.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045892 William P. Ahrnsen 12-13-24

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Harnett County Schools

FLATWOODS MIDDLE SCHOOL

3544 US 401 S
Lillington, NC 27546

ENERGY STAR PARTNER

No.	Date	Description
1	12-06-24	NCDOI CD
2	12-13-24	CD REVISIONS
3	12-06-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24

PROJECT #: 63089
DRAWN BY: JG
CHECKED BY: WA

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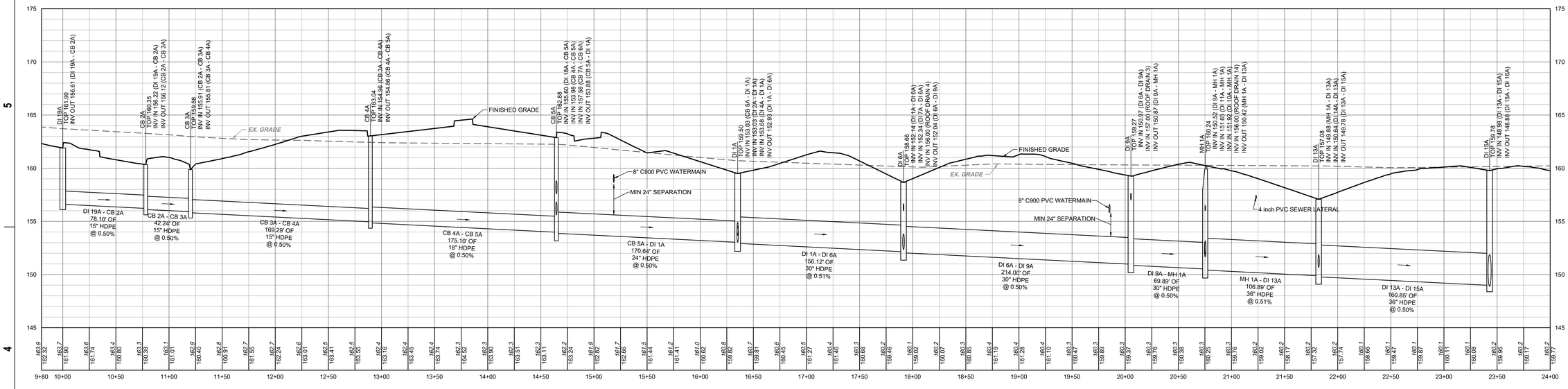
GRADING PLAN

C4.1



STORM MAIN A PROFILE
STA. 9+80 TO 24+00

PROFILE SCALE
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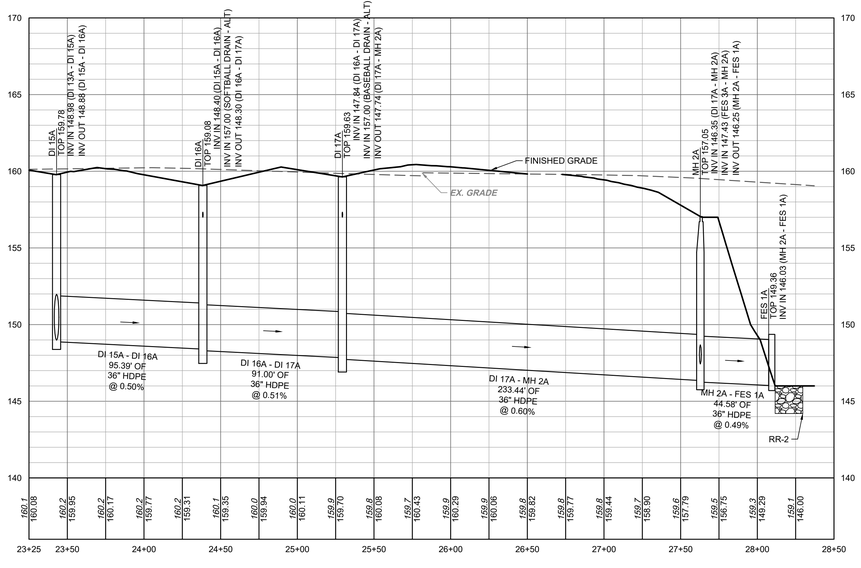
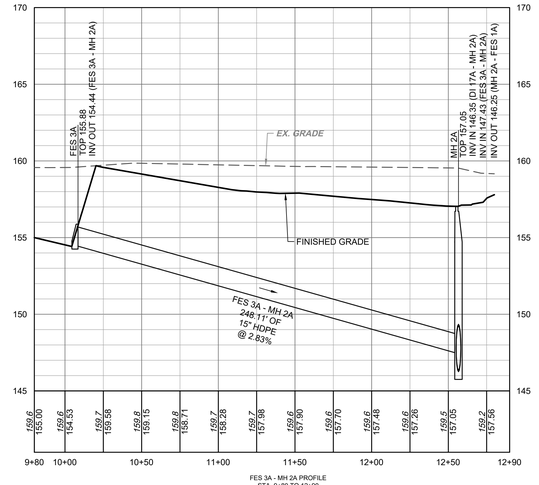
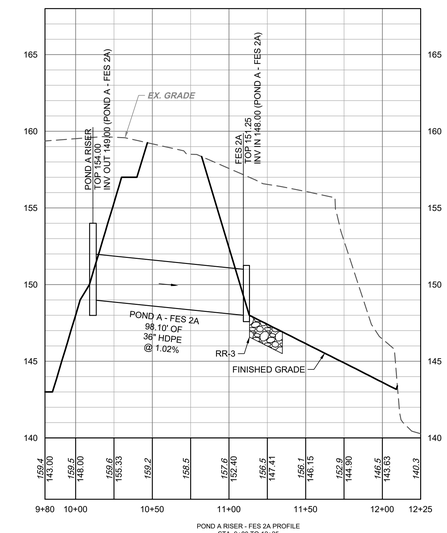


STORM MAIN A PROFILE
STA. 23+25 TO 28+50



FES 3A - MH 2A PROFILE
STA. 9+80 TO 12+90



POND A RISER - FES 2A PROFILE
STA. 9+80 TO 12+25

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NORTH CAROLINA
PROFESSIONAL
12-13-24
SEAL
045892
ENGINEER
William P. Ahman

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Harnett County Schools

FLATWOODS MIDDLE SCHOOL

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ENERGY STAR PARTNER

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ISSUE DATE: 11-08-24
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STORMWATER PROFILES

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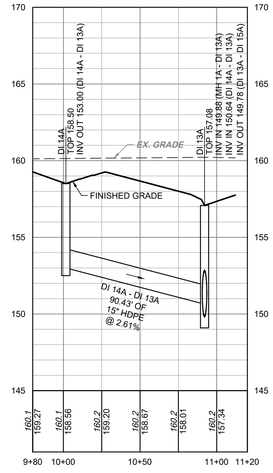
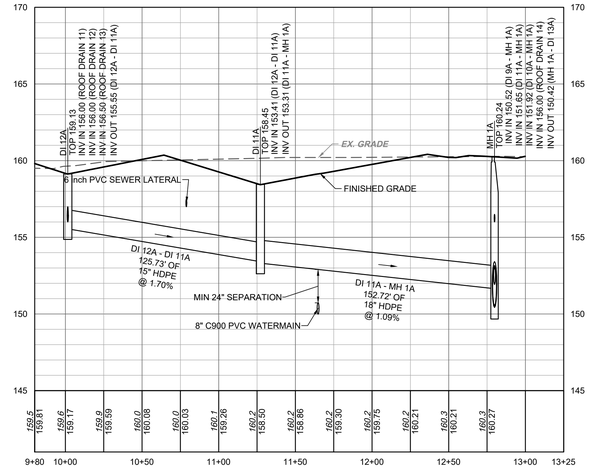
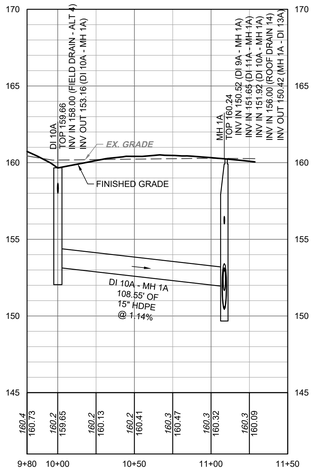


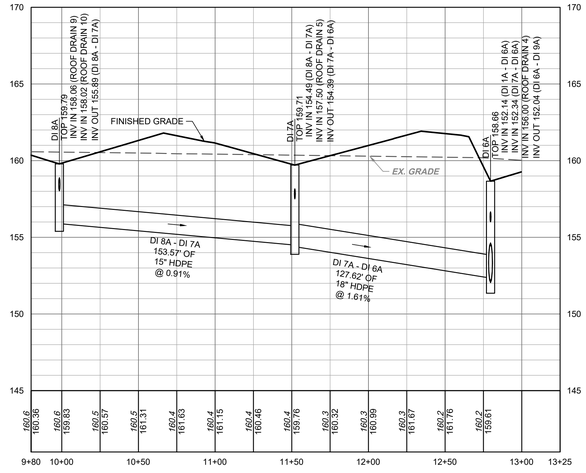
DI 14A - DI 13A PROFILE
STA. 9+80 TO 11+20



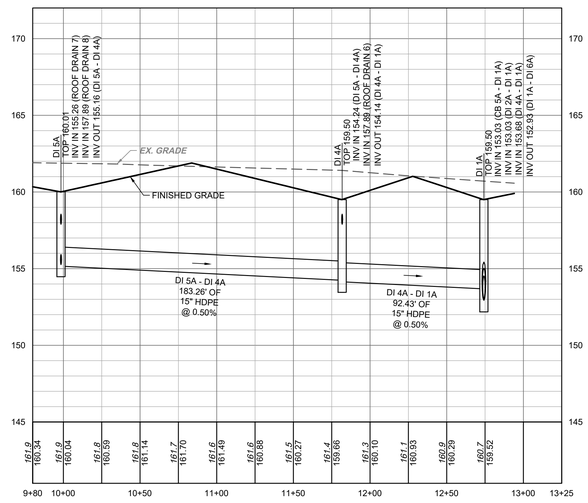
DI 12A - MH 1A PROFILE
STA. 9+80 TO 13+25



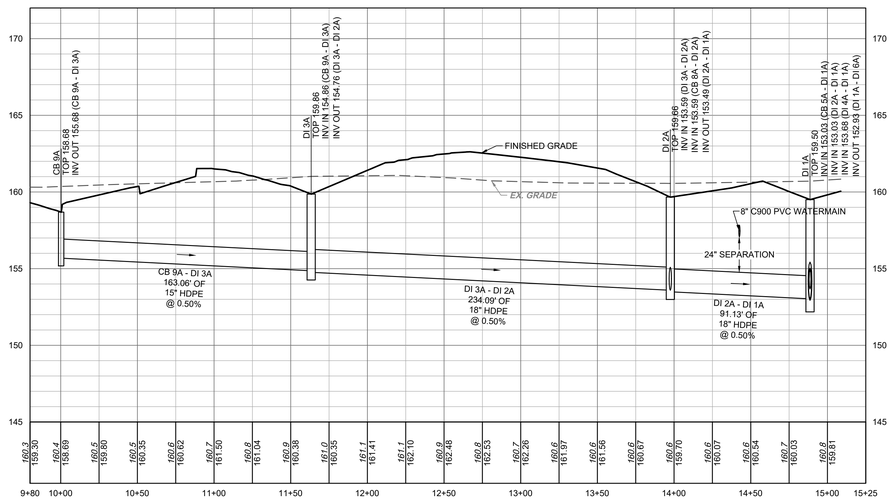
DI 10A - MH 1A PROFILE
STA. 9+80 TO 11+50



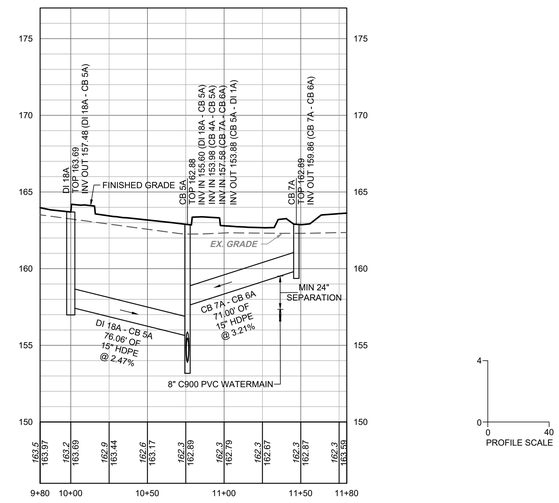
DI 8A - DI 6A PROFILE
STA. 9+80 TO 13+25



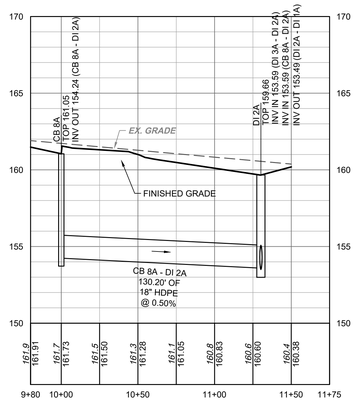
DI 5A - DI 1A PROFILE
STA. 9+80 TO 13+25



CB 9A - DI 1A PROFILE
STA. 9+80 TO 15+25



CB 7A - CB 5A PROFILE
STA. 9+80 TO 11+80



CB 8A - DI 2A PROFILE
STA. 9+80 TO 11+75

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NORTH CAROLINA
PROFESSIONAL ENGINEER
SEAL
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STORMWATER PROFILES

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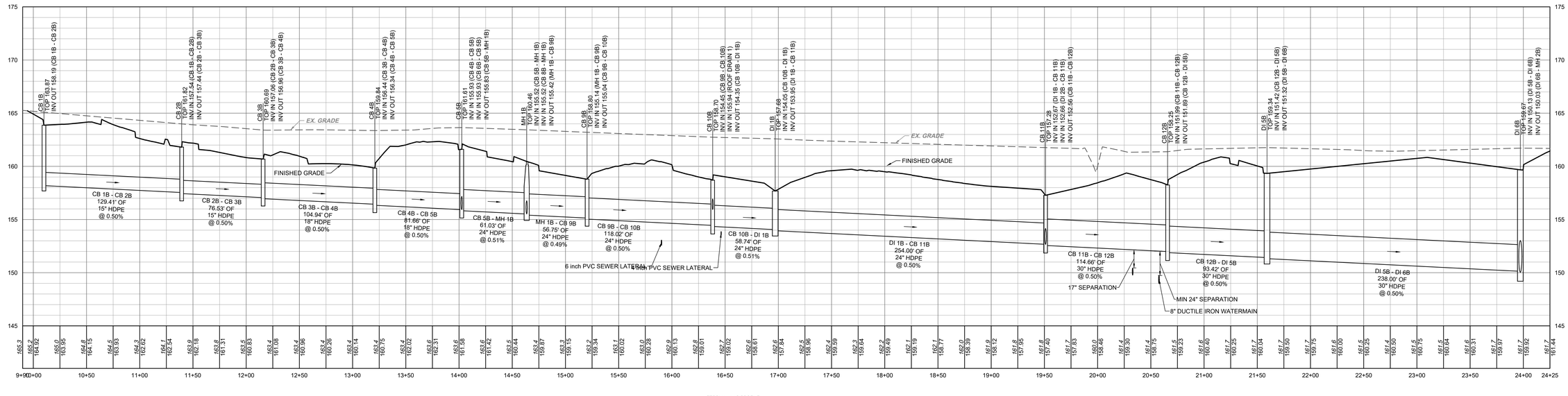
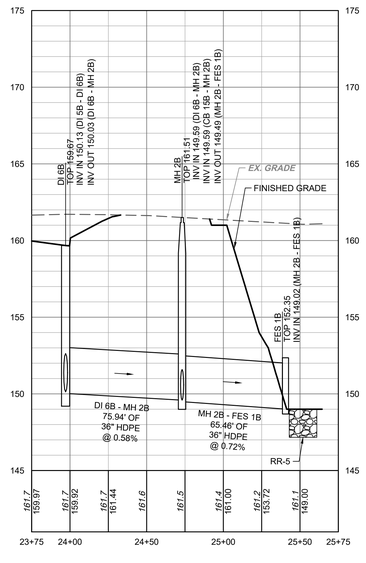


STORM MAIN B PROFILE
STA. 9+90 TO 24+25



STORM MAIN B PROFILE
STA. 23+75 TO 25+75

STORM STRUCTURE TABLE

STRUCTURE #	TOP	STRUCTURE HEIGHT	DESCRIPTION
CB 1B	163.87	5.68'	NCDOT 840.02 CONCRETE CATCH BASIN
CB 2A	160.35	4.23'	NCDOT 840.02 CONCRETE CATCH BASIN
CB 2B	161.82	4.56'	NCDOT 840.02 CONCRETE CATCH BASIN
CB 3A	159.88	4.07'	NCDOT 840.02 CONCRETE CATCH BASIN
CB 3B	160.66	3.89'	NCDOT 840.02 CONCRETE CATCH BASIN
CB 4A	163.04	8.18'	NCDOT 840.02 CONCRETE CATCH BASIN
CB 4B	159.84	3.69'	NCDOT 840.02 CONCRETE CATCH BASIN
CB 5A	162.88	9.21'	NCDOT 840.02 CONCRETE CATCH BASIN
CB 5B	161.61	5.96'	NCDOT 840.02 CONCRETE CATCH BASIN
CB 6B	163.01	6.71'	NCDOT 840.02 CONCRETE CATCH BASIN
CB 7A	162.89	3.03'	NCDOT 840.02 CONCRETE CATCH BASIN
CB 7B	161.50	4.76'	NCDOT 840.02 CONCRETE CATCH BASIN
CB 8A	161.05	6.83'	NCDOT 840.02 CONCRETE CATCH BASIN
CB 8B	159.15	3.17'	NCDOT 840.02 CONCRETE CATCH BASIN
CB 9A	158.68	3.00'	NCDOT 840.02 CONCRETE CATCH BASIN
CB 9B	158.80	3.93'	NCDOT 840.02 CONCRETE CATCH BASIN
CB 10B	158.70	4.56'	NCDOT 840.02 CONCRETE CATCH BASIN
CB 11B	157.28	4.93'	NCDOT 840.02 CONCRETE CATCH BASIN
CB 12B	158.25	6.61'	NCDOT 840.02 CONCRETE CATCH BASIN
CB 15B	160.11	8.27'	NCDOT 840.02 CONCRETE CATCH BASIN
CB 16B	160.23	7.16'	NCDOT 840.02 CONCRETE CATCH BASIN
CB 17B	158.65	3.44'	NCDOT 840.02 CONCRETE CATCH BASIN
CB 18B	159.90	6.36'	NCDOT 840.02 CONCRETE CATCH BASIN
CB 19B	160.11	5.23'	NCDOT 840.02 CONCRETE CATCH BASIN
CB 20B	159.10	3.60'	NCDOT 840.02 CONCRETE CATCH BASIN
DI 1A	159.51	6.83'	NCDOT 840.14 DROP INLET
DI 1B	157.68	3.73'	NCDOT 840.14 DROP INLET
DI 1C	162.38	3.45'	NCDOT 840.14 DROP INLET
DI 2A	158.31	4.82'	NCDOT 840.14 DROP INLET
DI 2B	156.26	3.38'	NCDOT 840.14 DROP INLET
DI 2C	162.39	4.67'	NCDOT 840.14 DROP INLET
DI 3A	157.87	3.11'	NCDOT 840.14 DROP INLET
DI 3B	158.10	4.45'	NCDOT 840.14 DROP INLET
DI 3C	162.37	5.82'	NCDOT 840.14 DROP INLET

STRUCTURE #	TOP	STRUCTURE HEIGHT	DESCRIPTION
DI 4A	159.51	5.56'	NCDOT 840.14 DROP INLET
DI 4B	157.92	4.16'	NCDOT 840.14 DROP INLET
DI 4C	161.73	6.56'	NCDOT 840.14 DROP INLET
DI 5A	160.01	5.03'	NCDOT 840.14 DROP INLET
DI 5B	159.34	8.02'	36 x 48 inch Rectangular Structure
DI 5C	157.83	6.99'	NCDOT 840.14 DROP INLET
DI 6A	158.66	6.81'	NCDOT 840.14 DROP INLET
DI 6B	159.67	9.98'	36 x 48 inch Rectangular Structure
DI 7A	159.71	5.32'	NCDOT 840.14 DROP INLET
DI 8A	159.79	3.90'	NCDOT 840.14 DROP INLET
DI 9A	159.26	8.58'	NCDOT 840.14 DROP INLET
DI 10A	159.66	7.12'	NCDOT 840.14 DROP INLET
DI 11A	158.45	5.33'	NCDOT 840.14 DROP INLET
DI 12A	159.13	3.76'	NCDOT 840.14 DROP INLET
DI 13A	157.08	7.49'	NCDOT 840.14 DROP INLET
DI 14A	158.50	5.50'	NCDOT 840.14 DROP INLET
DI 15A	159.78	10.90'	NCDOT 840.14 DROP INLET
DI 16A	159.08	11.11'	NCDOT 840.14 DROP INLET
DI 17A	159.63	12.22'	NCDOT 840.14 DROP INLET
DI 18A	163.69	6.21'	36 x 48 inch Rectangular Structure
DI 19A	161.90	5.29'	36 x 48 inch Rectangular Structure
FES 1A	149.36		NCDOT ES-1 for 36 inch Pipe
FES 1B	152.35		NCDOT ES-1 for 36 inch Pipe
FES 1C	161.66		NCDOT ES-1 for 24 inch Pipe
FES 2A	151.25		NCDOT ES-1 for 36 inch Pipe
FES 2C	152.66		NCDOT ES-1 for 36 inch Pipe
FES 3A	155.88		NCDOT ES-1 for 15 inch Pipe
FES 3C	156.30		NCDOT ES-1 for 15 inch Pipe
FES 4C	156.08		NCDOT ES-1 for 15 inch Pipe
MH 1A	160.24	10.07'	NCDOT 840.52 PRECAST MANHOLE
MH 1B	160.46	5.04'	NCDOT 840.52 PRECAST MANHOLE
MH 1C	160.79	8.19'	NCDOT 840.52 PRECAST MANHOLE
MH 2A	157.05	10.80'	NCDOT 840.52 PRECAST MANHOLE
MH 2B	161.51	12.02'	NCDOT 840.52 PRECAST MANHOLE

STORM PIPE TABLE

PIPE #	DIA	FROM - TO	UPSTREAM INVERT	DOWNSTREAM INVERT	SLOPE	LENGTH	DESCRIPTION
CB 1B - CB 2B	15"	CB 1B - CB 2B	158.19	157.54	0.50%	129.41 LF	15" HDPE
CB 2A - CB 3A	15"	CB 2A - CB 3A	156.12	155.91	0.50%	42.24 LF	15" HDPE
CB 2B - CB 3B	15"	CB 2B - CB 3B	157.44	157.06	0.50%	76.24 LF	15" HDPE
CB 3A - CB 4A	15"	CB 3A - CB 4A	155.81	154.96	0.50%	169.29 LF	15" HDPE
CB 3B - CB 4B	18"	CB 3B - CB 4B	156.96	156.44	0.48%	107.69 LF	18" HDPE
CB 4A - CB 5A	18"	CB 4A - CB 5A	154.86	153.98	0.50%	175.10 LF	18" HDPE
CB 4B - CB 5B	18"	CB 4B - CB 5B	156.34	155.93	0.50%	81.66 LF	18" HDPE
CB 5A - DI 1A	24"	CB 5A - DI 1A	153.88	153.03	0.50%	170.64 LF	24" HDPE
CB 5B - MH 1B	24"	CB 5B - MH 1B	155.83	155.52	0.51%	61.03 LF	24" HDPE
CB 6B - CB 5B	15"	CB 6B - CB 5B	156.30	155.93	0.51%	73.13 LF	15" HDPE
CB 7A - CB 6A	15"	CB 7A - CB 5A	159.86	157.58	3.21%	71.00 LF	15" HDPE
CB 7B - CB 6B	15"	CB 7B - CB 6B	156.93	156.40	0.50%	106.73 LF	15" HDPE
CB 8A - DI 2A	18"	CB 8A - DI 2A	154.24	153.59	0.50%	130.20 LF	18" HDPE
CB 8B - MH 1B	15"	CB 8B - MH 1B	155.98	155.52	0.50%	92.90 LF	15" HDPE
CB 9A - DI 3A	15"	CB 9A - DI 3A	155.68	154.86	0.50%	163.06 LF	15" HDPE
CB 9B - CB 10B	24"	CB 9B - CB 10B	155.04	154.45	0.50%	118.02 LF	24" HDPE
CB 10B - DI 1B	24"	CB 10B - DI 1B	154.35	154.05	0.51%	58.74 LF	24" HDPE
CB 11B - CB 12B	30"	CB 11B - CB 12B	152.56	151.99	0.50%	114.66 LF	30" HDPE
CB 12B - DI 5B	30"	CB 12B - DI 5B	151.89	151.42	0.50%	93.42 LF	30" HDPE
CB 15B - MH 2B	24"	CB 15B - MH 2B	151.84	149.59	0.99%	227.52 LF	24" HDPE
CB 16B - CB 15B	24"	CB 16B - CB 15B	153.07	151.94	0.61%	186.54 LF	24" HDPE
CB 17B - CB 18B	15"	CB 17B - CB 18B	155.40	153.83	2.00%	78.55 LF	15" HDPE
CB 18B - CB 16B	24"	CB 18B - CB 16B	153.73	153.17	0.58%	96.80 LF	24" HDPE
CB 19B - CB 18B	24"	CB 19B - CB 18B	154.88	153.83	1.02%	102.96 LF	24" HDPE
CB 20B - CB 19B	15"	CB 20B - CB 19B	155.50	154.98	0.95%	54.73 LF	15" HDPE
DI 1A - DI 6A	30"	DI 1A - DI 6A	152.93	152.14	0.51%	156.12 LF	30" HDPE
DI 1B - CB 11B	24"	DI 1B - CB 11B	153.95	152.67	0.50%	254.00 LF	24" HDPE
DI 1C - DI 2C	24"	DI 1C - DI 2C	158.93	157.82	0.90%	122.87 LF	24" HDPE
DI 2A - DI 1A	18"	DI 2A - DI 1A	153.49	153.03	0.50%	91.13 LF	18" HDPE
DI 2B - CB 11B	18"	DI 2B - CB 11B	152.88	152.66	0.65%	33.64 LF	18" HDPE
DI 2C - DI 3C	24"	DI 2C - DI 3C	157.72	156.65	0.50%	214.91 LF	24" HDPE
DI 3A - DI 2A	18"	DI 3A - DI 2A	154.76	153.59	0.50%	234.09 LF	18" HDPE

STORM PIPE TABLE

DI 3B - CB 15B	15"	DI 3B - CB 15B	153.78	152.24	1.67%	92.13 LF	15" HDPE
DI 3C - DI 4C	24"	DI 3C - DI 4C	156.55	155.27	0.50%	255.98 LF	24" HDPE
DI 4A - DI 1A	15"	DI 4A - DI 1A	154.14	153.68	0.50%	92.43 LF	15" HDPE
DI 4B - CB 16B	15"	DI 4B - CB 16B	153.95	153.17	1.00%	78.00 LF	15" HDPE
DI 4C - MH 1C	24"	DI 4C - MH 1C	155.17	152.70	0.62%	397.00 LF	24" HDPE
DI 5A - DI 4A	15"	DI 5A - DI 4A	155.16	154.24	0.50%	183.26 LF	15" HDPE
DI 5B - DI 6B	30"	DI 5B - DI 6B	151.32	150.13	0.50%	238.00 LF	30" HDPE
DI 5C - FES 2C	36"	DI 5C - FES 2C	150.84	149.33	1.27%	119.01 LF	36" HDPE
DI 6A - DI 9A	30"	DI 6A - DI 9A	152.04	150.97	0.50%	214.00 LF	30" HDPE
DI 6B - MH 2B	36"	DI 6B - MH 2B	150.03	149.59	0.58%	75.94 LF	36" HDPE
DI 7A - DI 6A	18"	DI 7A - DI 6A	154.39	152.34	1.61%	127.62 LF	18" HDPE
DI 8A - DI 7A	15"	DI 8A - DI 7A	155.89	154.49	0.91%	153.57 LF	15" HDPE
DI 9A - MH 1A	30"	DI 9A - MH 1A	150.87	150.52	0.50%	69.89 LF	30" HDPE
DI 10A - MH 1A	15"	DI 10A - MH 1A	153.16	151.92	1.14%	108.55 LF	15" HDPE
DI 11A - MH 1A	18"	DI 11A - MH 1A	153.31	151.65	1.09%	152.72 LF	18" HDPE
DI 12A - DI 11A	15"	DI 12A - DI 11A	155.55	153.41	1.70%	125.73 LF	15" HDPE
DI 13A - DI 15A	36"	DI 13A - DI 15A	149.78	148.98	0.50%	160.85 LF	36" HDPE
DI 14A - DI 13A	15"	DI 14A - DI 13A	153.00	150.64	2.61%	90.43 LF	15" HDPE
DI 15A - DI 16A	36"	DI 15A - DI 16A	148.88	148.40	0.50%	95.39 LF	36" HDPE
DI 16A - DI 17A	36"	DI 16A - DI 17A	148.30	147.84	0.51%	91.00 LF	36" HDPE
DI 17A - MH 2A	36"	DI 17A - MH 2A	147.74	146.35	0.60%	233.44 LF	36" HDPE
DI 18A - CB 5A	15"	DI 18A - CB 5A	157.48	155.60	2.47%	76.06 LF	15" HDPE
DI 19A - CB 2A	15"	DI 19A - CB 2A	156.61	156.22	0.50%	78.10 LF	15" HDPE
FES 1C - DI 1C	24"	FES 1C - DI 1C	159.41	159.03	0.50%	76.11 LF	24" HDPE
FES 3A - MH 2A	15"	FES 3A - MH 2A	154.44	147.43	2.83%	248.11 LF	15" HDPE
FES 3C - FES 4C	15"	FES 3C - FES 4C	154.86	154.64	1.05%	21.00 LF	15" HDPE
MH 1A - DI 13A	36"	MH 1A - DI 13A	150.42	149.88	0.51%	106.89 LF	36" HDPE
MH 1B - CB 9B	24"	MH 1B - CB 9B	155.42	155.14	0.49%	56.75 LF	24" HDPE
MH 1C - DI 5C	30"	MH 1C - DI 5C	152.60	151.04	0.88%	177.08 LF	30" HDPE
MH 2A - FES 1A	36"	MH 2A - FES 1A	146.25	146.03	0.49%	44.58 LF	36" HDPE
MH 2B - FES 1B	36"	MH 2B - FES 1B	149.49	149.02	0.72%	65.46 LF	36" HDPE

[redacted]

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045892 William P. Ahman 09-13-24

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Harnett County Schools

FLATWOODS MIDDLE SCHOOL

3544 US 401 S
Lillington, NC 27546

ENERGY STAR PARTNER

No.	Date	Description
1	12-06-24	NCDOI CD
2	12-13-24	CD REVISIONS
3	12-06-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24
PROJECT #: 63089
DRAWN BY: JG
CHECKED BY: WA

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STORMWATER PROFILES

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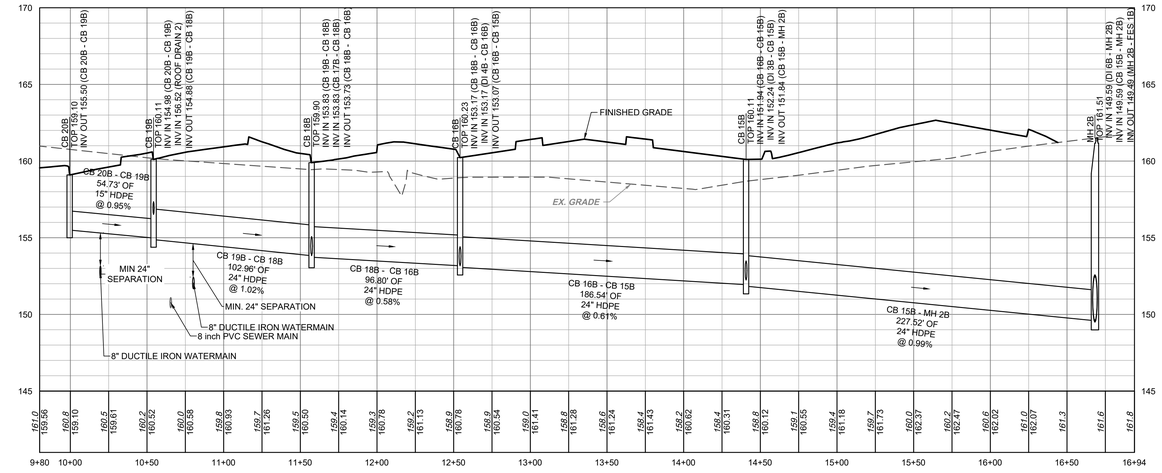
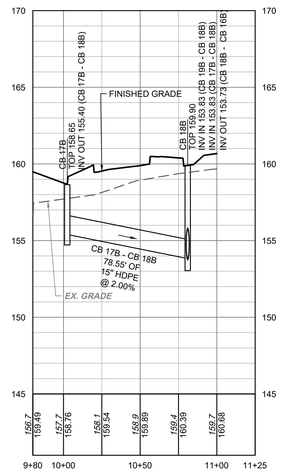
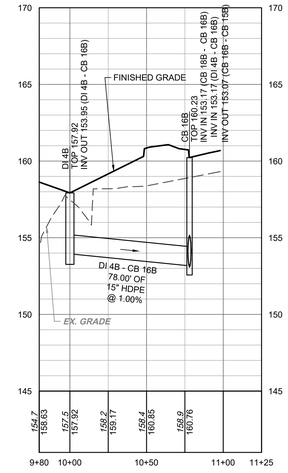


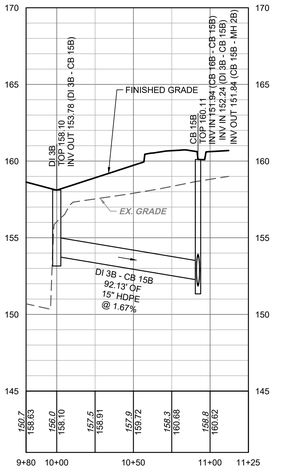
CB 20B - MH 2B PROFILE
STA. 9+80 TO 16+94



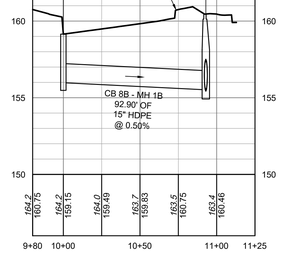
CB 17B - CB 18B PROFILE
STA. 9+80 TO 11+25



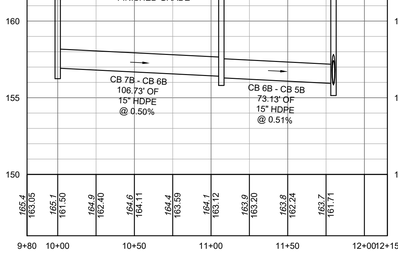
DI 4B - CB 16B PROFILE
STA. 9+80 TO 11+25



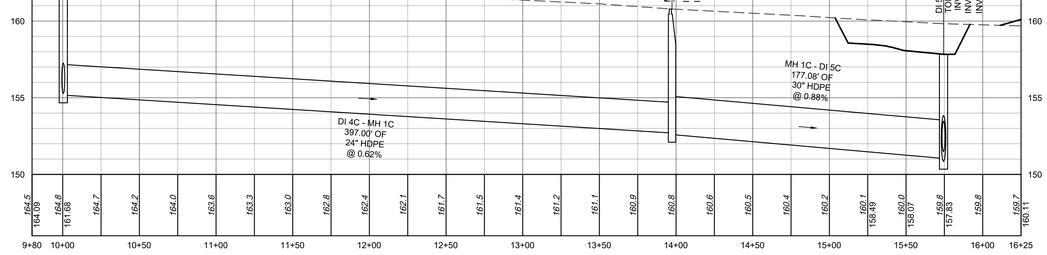
DI 3B - CB 15B PROFILE
STA. 9+80 TO 11+25



CB 8B - MH 1B PROFILE
STA. 9+80 TO 11+25



CB 7B - CB 5B PROFILE
STA. 9+80 TO 12+15



DI 4C - DI 5C PROFILE
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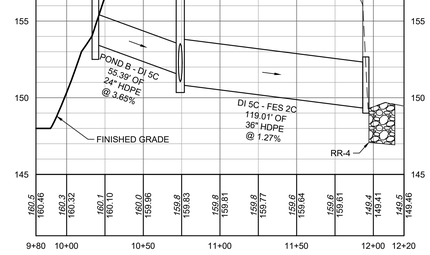
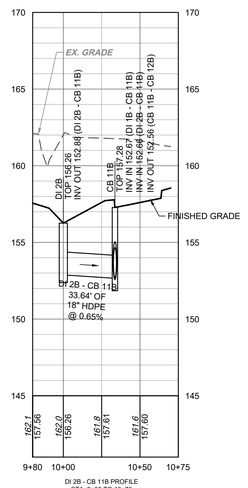
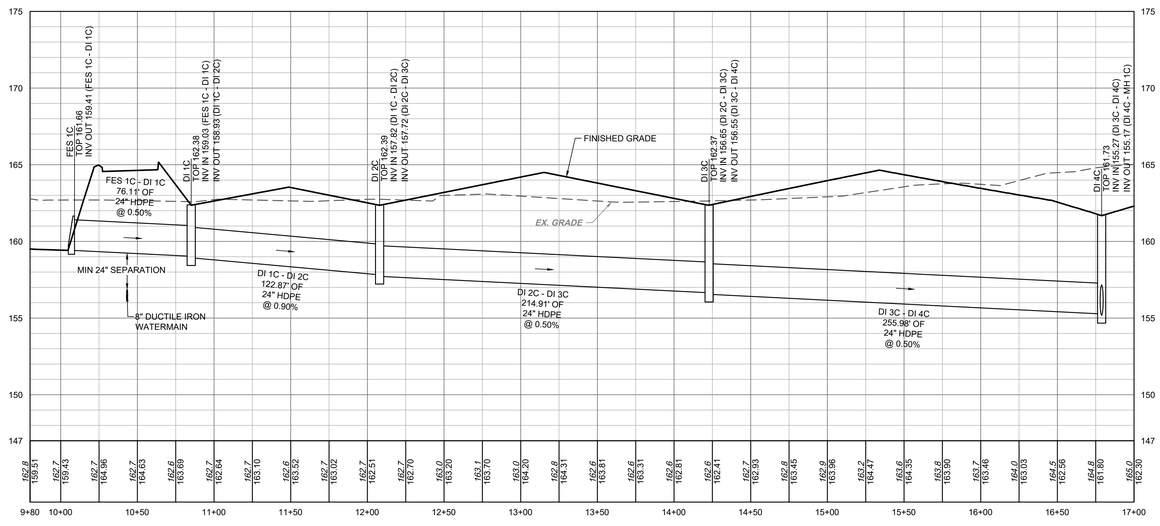


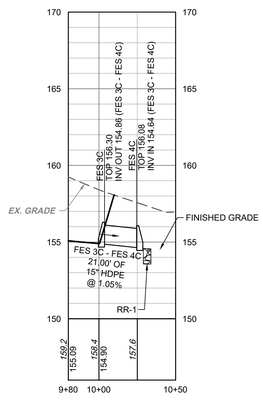
POND B RISER - FES 2C PROFILE
STA. 9+80 TO 12+20



DI 2B - CB 11B PROFILE
STA. 9+80 TO 10+75



FES 1C - DI 4C PROFILE
STA. 9+80 TO 17+00



FES 3C - FES 4C PROFILE
STA. 9+80 TO 10+50

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PROFILE SCALE

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CONSTRUCTION DOCUMENTS

Harnett County Schools

FLATWOODS MIDDLE SCHOOL

3544 US 401 S
Lillington, NC 27546

ENERGY STAR PARTNER

No.	Date	Description
1	12-06-24	NCDOT CD
2	12-13-24	CD REVISIONS
3	12-06-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24
PROJECT #: 63089
DRAWN BY: JG
CHECKED BY: WA

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STORMWATER PROFILES

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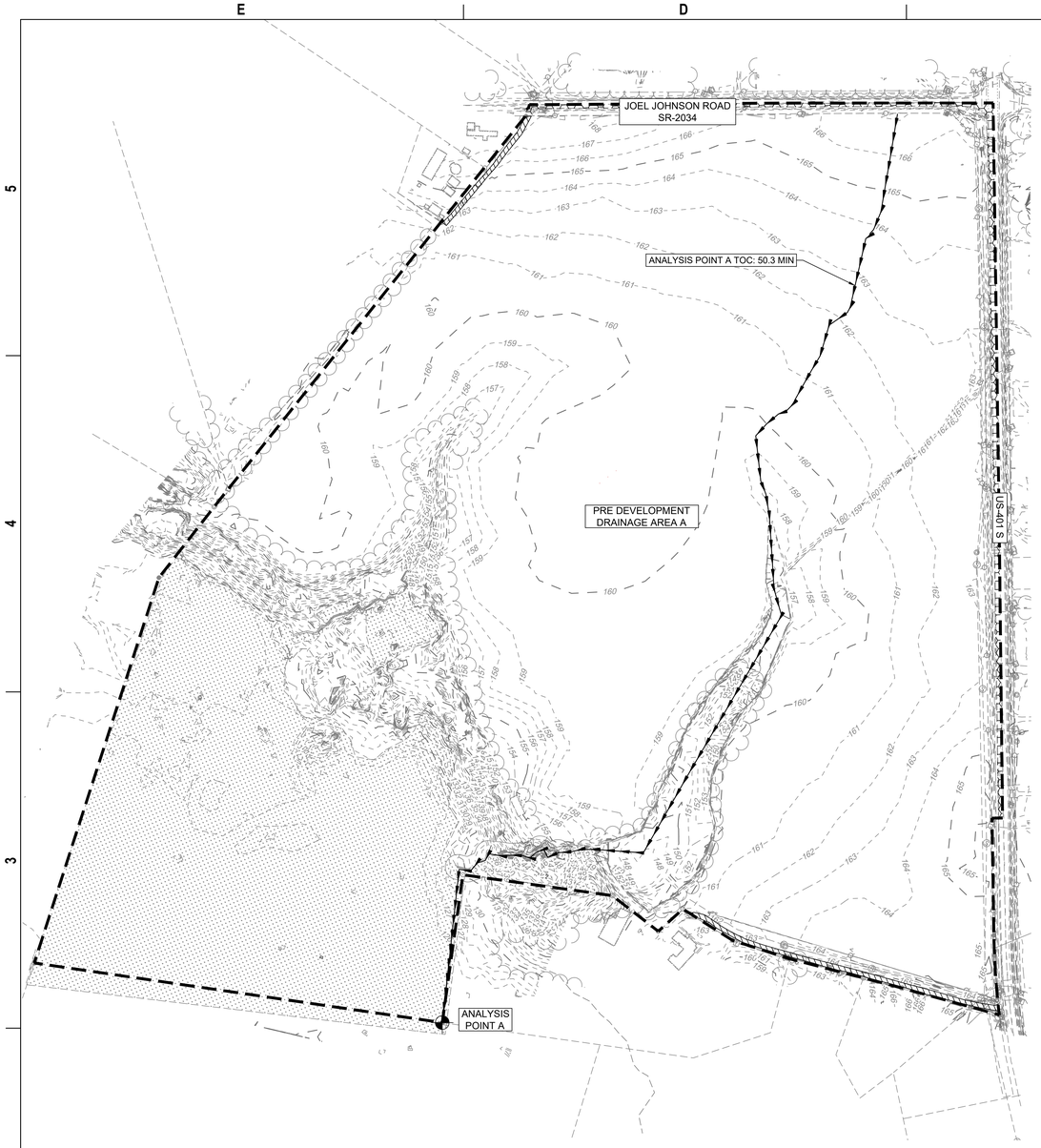
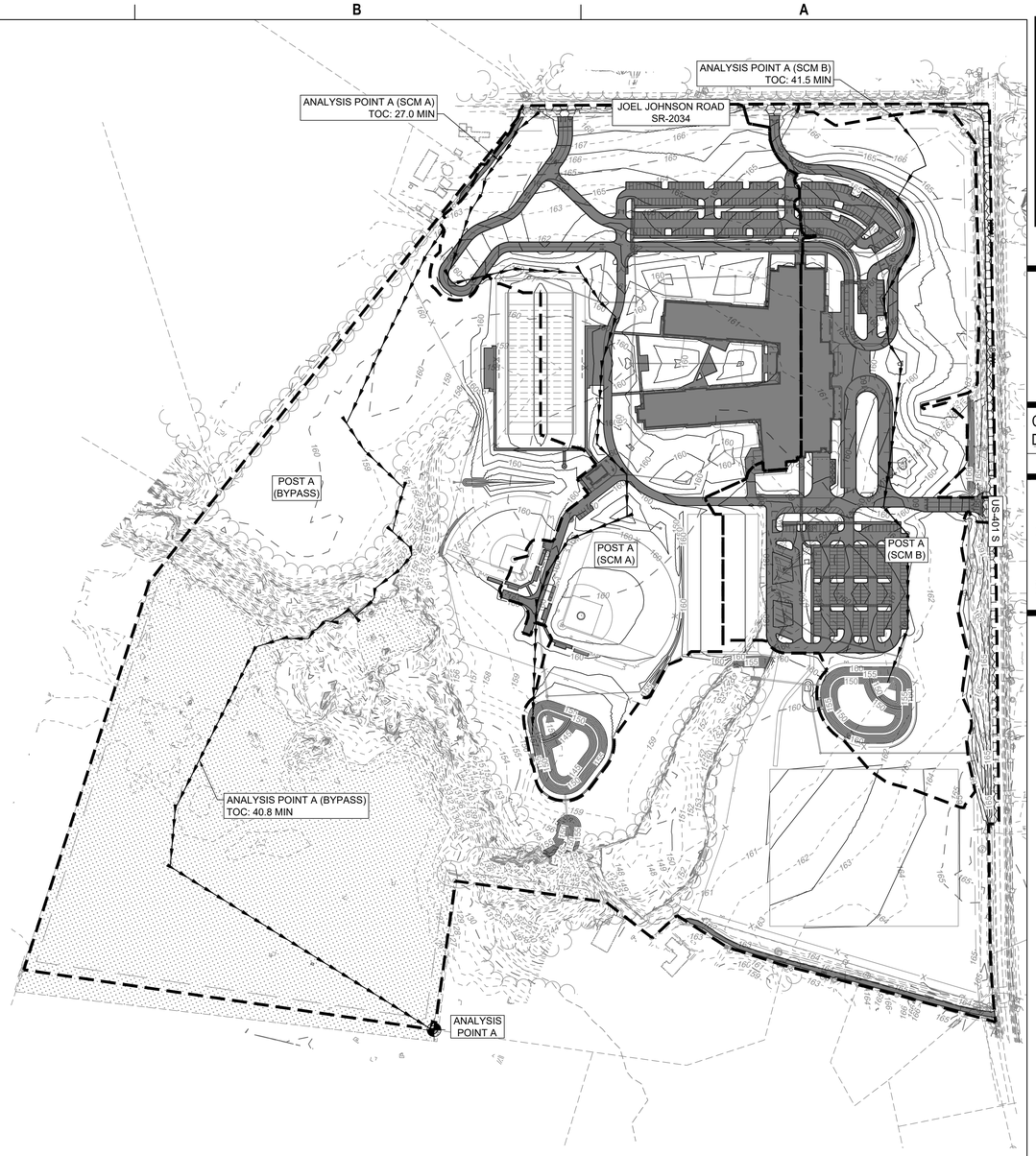


PRE-DEVELOPMENT IMPERVIOUS ANALYSIS MAP

1"=150'

STORM WATER QUANTITY CALCULATIONS						
ANALYSIS POINT	DRAINAGE AREA (ac)	IMPERVIOUS AREA (ac)	COMPOSITE C	Q1	Q10	Q25
A	98.86	1.16	84	87.85	212.82	271.52



POST-DEVELOPMENT IMPERVIOUS ANALYSIS MAP

1"=150'

STORM WATER QUANTITY CALCULATIONS						
ANALYSIS POINT A	DRAINAGE AREA (AC)	CURVE NUMBER	FLOW TYPE	Q1	Q10	Q25
BYPASS (LOW DENSITY)	57.70	74	BYPASS	39.52	125.68	169.51
SCM A (HIGH DENSITY)	22.59	81	MANAGED	3.22	43.04	57.50
SCM B (HIGH DENSITY)	18.65	83	MANAGED	1.99	17.07	27.77
COMBINED	98.94	N/A	TOTAL	39.87	171.32	231.74

LANDUSE SUMMARY			
LEGEND	LANDUSE	EXISTING AREA (SF)	PROPOSED AREA (SF)
	ON-SITE IMPERVIOUS	13,479	554,677
	OFF-SITE IMPERVIOUS	36,879	40,834
	PERVIOUS	4,256,017	3,755,149
	DRAINAGE AREA BOUNDARY		

STORMWATER QUALITY CALCULATIONS:

PRE-DEVELOPMENT ON-SITE IMPERVIOUS SURFACES (BUILT BEFORE 1997): 0.31 AC (13,479-SF)

POST-DEVELOPMENT ON-SITE IMPERVIOUS SURFACES: 13.00 AC (566,280-SF)

IMPERVIOUS AREA REQUIRED TO BE TREATED: 12.69 AC

IMPERVIOUS AREA TREATED BY WET POND SCM A: 6.25 AC

IMPERVIOUS AREA TREATED BY WET POND SCM B: 6.62 AC

TOTAL IMPERVIOUS AREA TREATED BY WET POND SCM: 12.87 AC

IMPERVIOUS AREA TO BYPASS WET POND SCM: 0.16 AC

OVERALL SUMMARY						
ANALYSIS POINT	Q1 (PRE)	Q1 (POST)	Q10 (PRE)	Q10 (POST)	Q25 (PRE)	Q25 (POST)
A	87.85	39.87	212.82	171.32	271.52	231.74

THIS PROJECT IS LOCATED WITHIN THE HARNETT COUNTY WATER SUPPLY WATERSHED IV DISTRICT, AND A MAXIMUM OF 36% IMPERVIOUS IS ALLOWED.

NORTH

SCALE 1"=150'

0 150' 300'

[redacted]

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045892 William P. Ahrnsen 12-13-24

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STORMWATER COMPLIANCE PLAN

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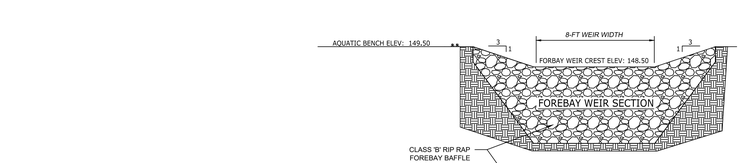
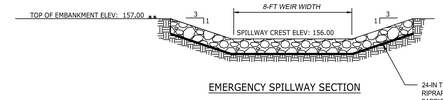


SCHEDULE A PRE-INSTALLATION CONFERENCE PRIOR TO CONSTRUCTION OF THE STORMWATER CONTROL MEASURE

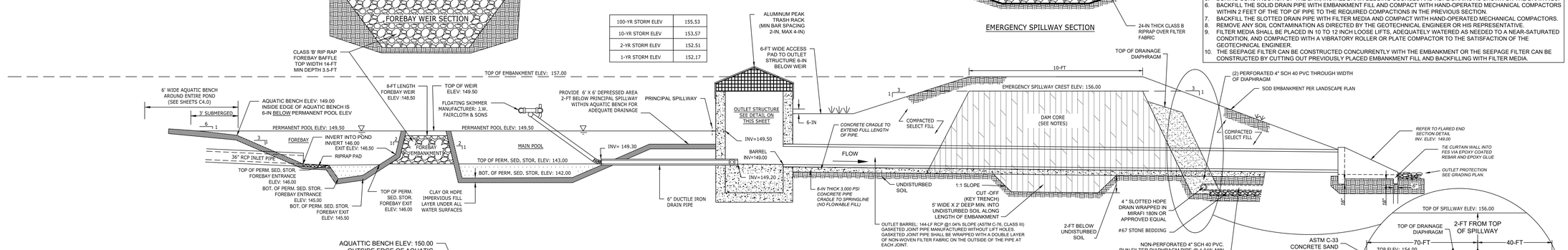
100-YR STORM ELEV	155.53
10-YR STORM ELEV	153.57
2-YR STORM ELEV	152.51
1-YR STORM ELEV	152.17



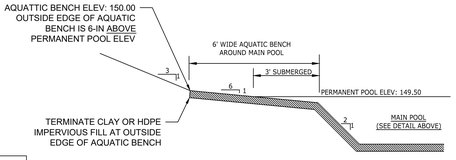
EMERGENCY SPILLWAY SECTION

FILTER DIAPHRAGM NOTES:

1. 4" DRAIN OUTLET FOR DIAPHRAGM SHALL BE PROTECTED BY AN APPROPRIATE RODENT GUARD: ½" X ½" STAINLESS STEEL MESH SECURED WITH STAINLESS STEEL CLAMP OR APPROVED EQUAL.
2. PIPE SHALL INCLUDE EXPANSION JOINTS SPACED EVERY 8 FEET ON CENTER.
3. JOINTS WRAPPED WITH DOUBLE LAYER OF NON-WOVEN GEOTEXTILE FILTER FABRIC ON OUTSIDE OF PIPE SHALL COVER 2 FEET BY 3 FEET OF PIPE CENTERED ON JOINT.
4. CONTRACTOR SHALL SUBMIT ONE (1) 5 GALLON BUCKET SAMPLE OF FILTER MEDIA TO THE GEOTECHNICAL ENGINEER FOR APPROVAL PRIOR TO PLACEMENT IN THE FILTER DIAPHRAGM.
5. DURING CONSTRUCTION OF THE DAM, INSTALL DRAIN BEDDING COURSES AND HDPE DRAINS AS SHOWN ON THE DRAWINGS.
6. BACKFILL THE SOLID DRAIN PIPE WITH EMBANKMENT FILL AND COMPACT WITH HAND-OPERATED MECHANICAL COMPACTORS WITHIN 2 FEET OF THE TOP OF PIPE TO THE REQUIRED COMPACTIONS IN THE PREVIOUS SECTION.
7. BACKFILL THE SLOTTED DRAIN PIPE WITH FILTER MEDIA AND COMPACT WITH HAND-OPERATED MECHANICAL COMPACTORS.
8. REMOVE ANY SOIL CONTAMINATION AS DIRECTED BY THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE.
9. FILTER MEDIA SHALL BE PLACED IN 10 TO 12 INCH LOOSE LIFTS, ADEQUATELY WATERED AS NEEDED TO A NEAR-SATURATED CONDITION, AND COMPACTED WITH A VIBRATORY ROLLER OR PLATE COMPACTOR TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
10. THE SEEPAGE FILTER CAN BE CONSTRUCTED CONCURRENTLY WITH THE EMBANKMENT OR THE SEEPAGE FILTER CAN BE CONSTRUCTED BY CUTTING OUT PREVIOUSLY PLACED EMBANKMENT FILL AND BACKFILLING WITH FILTER MEDIA.



POND AND EMBANKMENT SECTION

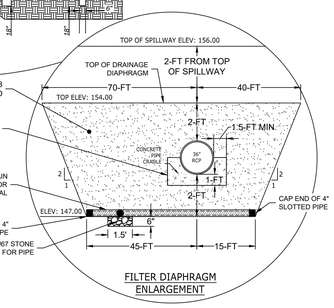


AQUATIC BENCH SECTION

WET DETENTION BASIN MAINTENANCE SCHEDULE			
DESCRIPTION	METHOD	FREQUENCY	SEASON
EMBANKMENT			
INSPECT AND REPAIR EROSION / ANIMAL NESTINGS	VISUAL	ONCE PER YEAR	ALL
INSPECT AND RESEED GRASS COVERAGE	VISUAL	WHENEVER NEEDED	ALL
OUTLET STRUCTURE			
DEBRIS / OBSTRUCTIONS	BY HAND	WHENEVER NEEDED	ALL
OPERATE POND DRAIN VALVE	BY HAND	ONCE PER YEAR	ALL
EROSION AT OUTLET DISCHARGE	VISUAL	ONCE PER YEAR	ALL
FOREBAY / MAIN POOL			
SEDIMENT / DEBRIS	BY HAND	ONCE PER YEAR	ALL
REMOVE TRASH	BY HAND	WHENEVER NEEDED	ALL
CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE UNTIL PROJECT CLOSE OUT AT WHICH TIME OWNER WILL ASSUME MAINTENANCE RESPONSIBILITY.			

DAM CORE, CUTOFF TRENCH, AND EMBANKMENT FILL NOTES:

1. DAM CORE AND CUTOFF TRENCH FILL MATERIAL SHALL CLASSIFY AS ML, MH, CL OR CH PER USCS. THIS MATERIAL MAY CONSIST OF MATERIAL FROM ON-SITE BORROW PITS, OR APPROVED OFF-SITE BORROW SOURCES.
2. EMBANKMENT FILL SOIL MATERIAL SHALL CALSIFY SM, SC, ML OR CL PER USCS. THIS MATERIAL MAY CONSIST OF MATERIAL FROM ON-SITE EXCAVATIONS, ON-SITE BORROW PIS OR APPROVED OFF-SITE BORROW SOURCES.
3. UNSUITABLE EMBANKMENT FILL IS CLASSIFIED AS GW, GP, GM, GC, SW, SP, OH, OL PER USCS



FILTER DIAPHRAGM ENLARGEMENT

EMBANKMENT CONSTRUCTION STANDARDS

1. CONTROLLED FILL, AS SPECIFIED BY THE GEOTECHNICAL ENGINEER, IN THE DAM EMBANKMENT SHALL BE PLACED IN 6-INCH LOOSE LAYERS (3-INCH LOOSE LAYERS WITHIN 3-FEET OF EITHER SIDE OF THE PRINCIPAL SPILLWAY PIPE TO A DEPTH OF 2-FEET OVER THE PIPE) AND SHALL BE COMPACTED TO A DENSITY OF NO LESS THAN 95% OF THE STANDARD PROCTOR MAXIMUM DENSITY AT A MOISTURE CONTENT OF + OR - TWO PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698.
2. ALL VISIBLE ORGANIC DEBRIS SUCH AS ROOTS AND LIMBS SHALL BE REMOVED FROM THE FILL MATERIAL PRIOR TO COMPACTION TO THE REQUIRED DENSITY. SOILS WITH ORGANIC MATTER CONTENT EXCEEDING 5% BY WEIGHT SHALL NOT BE USED. STONES GREATER THAN 3-INCH (IN ANY DIRECTION) SHALL BE REMOVED FROM THE FILL PRIOR TO COMPACTION.
3. FILL MATERIAL PLACED AT DENSITIES LOWER THAN SPECIFIED MINIMUM DENSITIES OR AT MOISTURE CONTENTS OUTSIDE THE SPECIFIED RANGES OR OTHERWISE NOT CONFORMING TO SPECIFIED REQUIREMENTS SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIALS.
4. ANY FILL LAYER THAT IS SMOOTH DRUM ROLLED TO REDUCE MOISTURE PENETRATION DURING A STORM EVENT SHALL BE PROPERLY SCARIFIED PRIOR TO THE PLACEMENT OF THE NEXT SOIL LIFT.
5. SURFACE WATER AND STREAM FLOW SHALL BE CONTINUOUSLY CONTROLLED THROUGHOUT CONSTRUCTION AND THE PLACEMENT OF CONTROLLED FILL.
6. FOUNDATION AREAS MAY REQUIRE UNDERCUTTING OF COMPRESSIBLE AND/OR UNSUITABLE SOILS IN ADDITION TO THAT INDICATED ON THE PLANS. ALL SUCH UNDERCUTTING SHALL BE PERFORMED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER AND SHALL BE MONITORED AND DOCUMENTED. IN NO CASE SHALL THERE BE AN ATTEMPT TO STABILIZE ANY PORTIONS OF THE FOUNDATION SOILS WITH CRUSHED STONE.
7. FILL ADJACENT TO THE RISER AND PRINCIPAL SPILLWAY PIPE SHALL BE PLACED SO THAT LIFTS ARE AT THE SAME LEVEL ON BOTH SIDES OF THE STRUCTURES.
8. HEAVY EQUIPMENT SHALL NOT BE ALLOWED TO PASS OVER CAST-IN-PLACE STRUCTURES (INCLUDING THE CRADLE) UNTIL ADEQUATE CURING TIME HAS ELAPSED.
9. TO RE-ESTABLISH VEGETATION AFTER CONSTRUCTION, PLACE A 3-INCH LAYER OF TOPSOIL ON THE DISTURBED EMBANKMENT SURFACE AND SEED AND MULCH OR HYDROSEED THE AREA.

TESTING, OBSERVATION, AND CERTIFICATION

1. TESTS OF THE DEGREE (%) OF COMPACTION OF THE PLACED FILL IN THE DAM SHALL BE PERFORMED AS A PART OF THE CONTRACTOR'S NORMAL QUALITY CONTROL PROGRAM FOR THE CONSTRUCTION OF THE DAM. TESTS SHALL BE CONDUCTED CONCURRENT WITH THE INSTALLATION OF THE COMPACTED FILL AND THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF THE DAM SO THAT THE TESTING CAN BE COMPLETED. SHOULD THE RESULTS OF THE TESTS INDICATE THAT THE SPECIFIED DEGREE OF COMPACTION HAS NOT BEEN OBTAINED; THE PORTIONS OF THE DAM REPRESENTED BY SUCH TESTS SHALL BE REWORKED OR REBUILT. ALL PORTIONS OF THE DAM SHALL ACHIEVE THE SPECIFIED MINIMUM DEGREE OF COMPACTION.

WET DETENTION BASIN CONSTRUCTION SEQUENCE:

1. IF THE WET DETENTION BASIN IS USED AS A SEDIMENT TRAP DURING CONSTRUCTION, ALL SEDIMENT DEPOSITED DURING CONSTRUCTION MUST BE REMOVED. EROSION FEATURES MUST BE REPAIRED, AND THE VEGETATED SHELF MUST BE RESTORED, BEFORE OPERATION AS A STORMWATER SCM BEGINS.
2. DO NOT BEGIN CONSTRUCTION OF WET DETENTION BASIN AREAS UNTIL SITE CONSTRUCTION IS COMPLETE, ALL PARKING SURFACES ARE PAVED, AND THE ENTIRE SITE HAS BEEN ESTABLISHED WITH A GOOD STAND OF GRASS.
3. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE AND THE SLOPES DRAINING TO THE WET DETENTION BASIN AREA SHALL BE STABILIZED BEFORE CONSTRUCTION OF THE WET DETENTION BASIN BEGINS.
4. INSTALL TEMPORARY SILT FENCE AROUND THE WET DETENTION BASIN AREA AS NEEDED.
5. EXCAVATE WET DETENTION BASIN AREA, PER THE GRADES AND DETAILED ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS.
6. CONTACT ENGINEER SO AN AS-BUILT SURVEY CAN BE PERFORMED OF THE WET DETENTION BASIN.
7. INSTALL ANY REMAINING STORM DRAINAGE PIPES AND INLETS.
8. FINE GRADE THE SIDE SLOPES OF THE WET DETENTION BASIN AREA. DRESS UP VELOCITY DISSIPATER AS NEEDED PER THE PLANS.
9. INSTALL GRASS PER GRASS SPECIFICATIONS.
10. PLANT ALL PROPOSED VEGETATION PER WET DETENTION BASIN PLANTING PLAN. CONTACT THE PROJECT LANDSCAPE ARCHITECT TO COORDINATE AS NEEDED.
11. FINE GRADE, SEED AND STABILIZE ANY REMAINING DISTURBED AREAS AROUND THE OUTSIDE OF THE WET DETENTION BASIN AREA. REMOVE SILT FENCE.
12. UPON COMPLETION OF WORK, CONTACT THE PROJECT ENGINEER AND LANDSCAPE ARCHITECT FOR AN INSPECTION AND TO BEGIN THE AS-BUILT CERTIFICATION PROCESS. AN AS-BUILT SURVEY OF ALL ASPECTS OF THIS FACILITY WILL BE PERFORMED BY THE ENGINEER. CERTIFICATIONS WILL NOT BE ISSUED IF THE SCM DOES NOT MEET OR EXCEED THE REQUIREMENTS CONTAINED IN THE CONSTRUCTION DOCUMENTS. SHOULD REMEDIAL WORK BE REQUIRED, ALL COSTS ASSOCIATED WITH THE REMEDIAL WORK INCLUDING RE-SURVEY AND RE-INSPECTIONS WILL BE BORNE BY THE CONTRACTOR.

WET DETENTION POND SUBMITTALS AND INSPECTIONS

WET DETENTION POND MATERIAL SUBMITTALS:

SUBMITTALS FOR THE FOLLOWING ITEMS ARE REQUIRED TO BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO INSTALLATION. COPIES OF SUBMITTALS SHALL BE RETAINED BY THE OWNER AND ENGINEER OF RECORD AND MADE AVAILABLE TO GUILFORD COUNTY UPON REQUEST.

1. PIPE & JOINTS:
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   - 1.2. ENTRANCE PIPES
   - 1.3. FLARED END SECTIONS
2. OUTLET CONTROL STRUCTURE:
   - 2.1. SHOP DRAWINGS (SIGNED/SEALED) OF STRUCTURE WITH COMPLETE DETAILS OF JOINTS, STEEL PLACEMENT, STEPS/RUNGS, PENETRATIONS AND ASSOCIATED COMPONENTS.
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   - 2.3. POND DRAIN AND VALVE
   - 2.4. WEIGHT OF STRUCTURE
   - 2.5. CONCRETE MIX DESIGN WITH UNIT WEIGHT OF CONCRETE
3. CAST IN-PLACE CONCRETE MIX DESIGN WITH UNIT WEIGHT SPECIFIED FOR:
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   - 3.2. OTHER SCM COMPONENTS UTILIZING CAST IN-PLACE CONCRETE
4. TRASH RACK SHOP DRAWINGS
5. SEEPAGE DIAPHRAGM:
   - 5.1. SAND GRADATION REPORT
   - 5.2. PERFORATED PIPE, SOLID-WALL PIPE, AND FITTINGS
6. HEADWALL
7. RIPRAP

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Photographic evidence of installed wet detention pond components shall be made available to Guilford County upon request prior to final inspection.

1. Cutoff Trench upon excavation and prior to backfill
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5. Seepage Diaphragm prior to sand placement (or anti-seep collars when specified)
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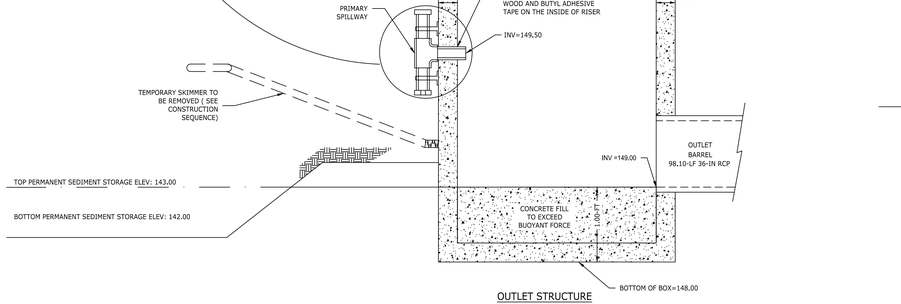
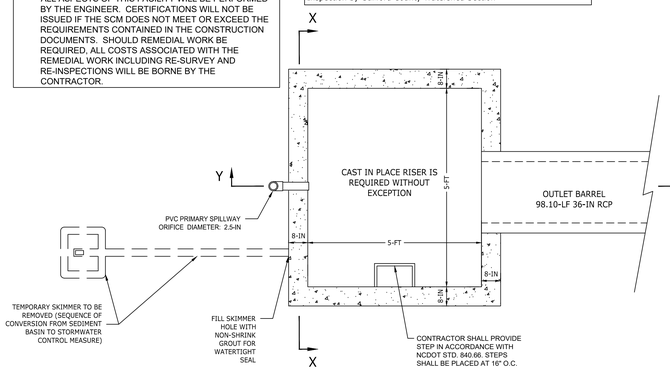
Final SCM Inspection by Engineer of Record prior to requesting Final Inspection by Guilford County Watershed Section

PRIMARY SPILLWAY ENLARGEMENT



OUTLET STRUCTURE SECTION Y-Y



OUTLET STRUCTURE PLAN VIEW

AS-BUILT SURVEY REQUIREMENTS

NOTE:CONTRACTOR SHALL PROVIDE AS-BUILT TOPOGRAPHIC SURVEY PERFORMED BY A PROFESSIONAL LAND SURVEYOR CERTIFYING WET DETENTION POND AREA DIMENSIONS AND ELEVATIONS OF THE FOLLOWING:

1. TOPOGRAPHIC SURVEY OF THE WET POND AND EMBANKMENT
2. OUTLET STRUCTURE TOPS AND INVERTS
3. OUTLET STRUCTURE DIMENSIONS
4. ORIFICE DIAMETERS
5. BARREL PIPE SIZES AND INVERTS
6. EMERGENCY SPILLWAY ELEVATION AND DIMENSIONS.

OUTLET STRUCTURE NOTES

1. CAST-IN-PLACE CONCRETE RISER IS REQUIRED WITHOUT EXCEPTION.
2. CLASS "A" (3,000 PSI) CONCRETE TO BE USED.
6. ALL MORTOR JOINTS ARE 1/2" ± 1/8".
7. GROUT SHALL BE NON-SHRINK (ASTM-C1107)
8. ALL STRUCTURES OVER 3'-6" IN DEPTH TO BE PROVIDED WITH STEPS 1'-2" ON CENTERS. STEPS SHALL BE IN ACCORDANCE WITH STANDARD 840.66.
9. LOCATE MANHOLE OVER STEPS.

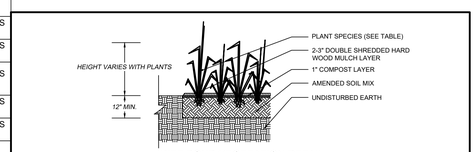
WET POND VEGETATED SHELF PLANT LIST

MINIMUM REQUIRED PLANT DENSITY = 50 PLANTS PER 200 SQUARE FEET OF VEGETATED SHELF (3,145 SF / 200 SF) * 50 PLANTS = 787 MINIMUM PLANTS REQUIRED.

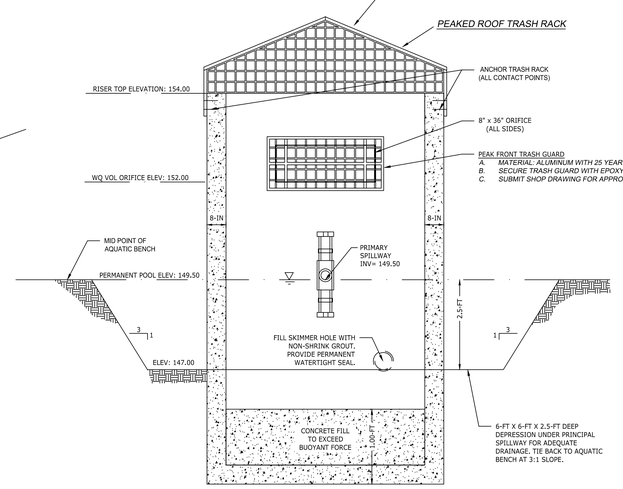
THE FOLLOWING PLANTS SHALL BE PLANTED ON THE 6-FOOT WIDE VEGETATED SHELF BETWEEN THE ELEVATIONS OF 152 - 151:

QUANTITY	BOTANICAL NAME	COMMON NAME	SPACING	NOTES
132	EUPATORIADELPHUS FISTULOSUS	JOE PYE WEED	4' O.C.	PLANT IN GROUPS OF 5
132	LOBELIA SIPHILITICA	GREAT BLUE LOBELIA	4' O.C.	PLANT IN GROUPS OF 5
132	LOBELIA CARDINALIS	CARDINAL FLOWER	4' O.C.	PLANT IN GROUPS OF 5
132	EUPATORIADELPHUS MACULATUS	SPOTTED TRUMPETWEED	4' O.C.	PLANT IN GROUPS OF 5
132	ASCLEPIAS INCARNATA	SWAMP MILKWEED	4' O.C.	PLANT IN GROUPS OF 5
127	RHYNCHOSPORA COLORATA	STARRUSH PLUMEGRASS	4' O.C.	PLANT IN GROUPS OF 5

NURSERY SOURCES:
MELLOW MARSH FARM (919) 742-1200
CURE NURSERY (919) 542-6186



WET POND VEGETATION DETAIL
N.T.S.



OUTLET STRUCTURE SECTION X-X

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.
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Raleigh, NC 27607
TEL 919.866.4951
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Site Development | Residential | Infrastructure | Technology
X20091-222

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045892 William P. Ammon 12-13-24

CONSTRUCTION DOCUMENTS

Harnett County Schools

FLATWOODS MIDDLE SCHOOL

3544 US 401 S
Lillington, NC 27546

ENERGY STAR PARTNER

No.	Date	Description
1	12-06-24	NCDOT CD
2	12-13-24	CD REVISIONS
3	12-06-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24
PROJECT #: 63089
DRAWN BY: JG
CHECKED BY: WA

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SCM DETAIL SHEET POND A

C4.7

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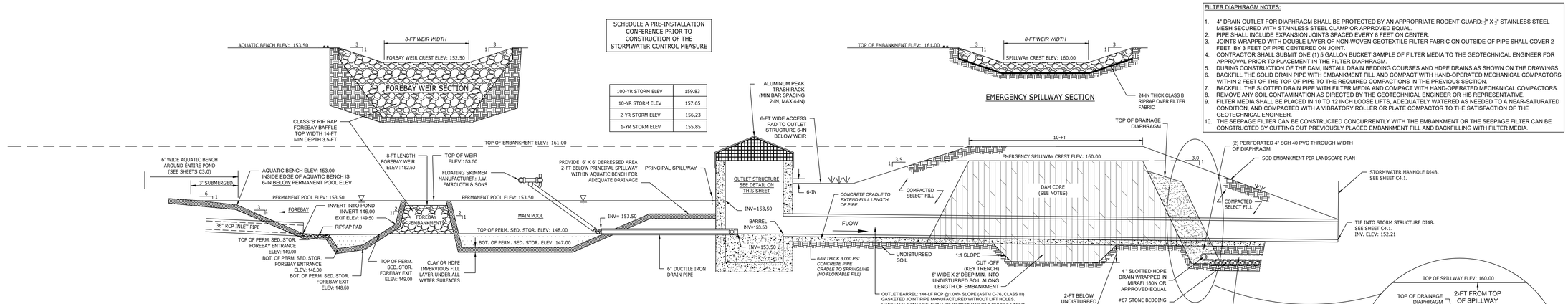
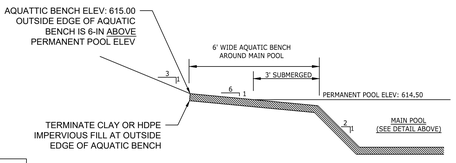


POND AND EMBANKMENT SECTION



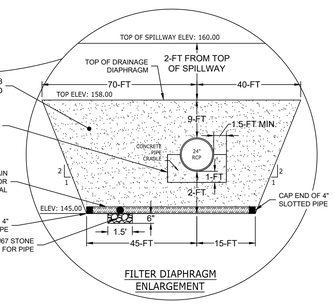
AQUATIC BENCH SECTION

SCHEDULE A PRE-INSTALLATION CONFERENCE PRIOR TO CONSTRUCTION OF THE STORMWATER CONTROL MEASURE	
100-YR STORM ELEV	159.83
10-YR STORM ELEV	157.65
2-YR STORM ELEV	156.23
1-YR STORM ELEV	155.85

FILTER DIAPHRAGM NOTES:

1. 4" DRAIN OUTLET FOR DIAPHRAGM SHALL BE PROTECTED BY AN APPROPRIATE RODENT GUARD: ½" X ½" STAINLESS STEEL MESH SECURED WITH STAINLESS STEEL CLAMP OR APPROVED EQUAL.
2. PIPE SHALL INCLUDE EXPANSION JOINTS SPACED EVERY 8 FEET ON CENTER.
3. JOINTS WRAPPED WITH DOUBLE LAYER OF NON-WOVEN GEOTEXTILE FILTER FABRIC ON OUTSIDE OF PIPE SHALL COVER 2 FEET BY 3 FEET OF PIPE CENTERED ON JOINT.
4. CONTRACTOR SHALL SUBMIT ONE (1) 5 GALLON BUCKET SAMPLE OF FILTER MEDIA TO THE GEOTECHNICAL ENGINEER FOR APPROVAL PRIOR TO PLACEMENT IN THE FILTER DIAPHRAGM.
5. DURING CONSTRUCTION OF THE DAM, INSTALL DRAIN BEDDING COURSES AND HDPE DRAINS AS SHOWN ON THE DRAWINGS.
6. BACKFILL THE SOLID DRAIN PIPE WITH EMBANKMENT FILL AND COMPACT WITH HAND-OPERATED MECHANICAL COMPACTORS WITHIN 2 FEET OF THE TOP OF PIPE TO THE REQUIRED COMPACTIONS IN THE PREVIOUS SECTION.
7. BACKFILL THE SLOTTED DRAIN PIPE WITH FILTER MEDIA AND COMPACT WITH HAND-OPERATED MECHANICAL COMPACTORS.
8. REMOVE ANY SOIL CONTAMINATION AS DIRECTED BY THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE.
9. FILTER MEDIA SHALL BE PLACED IN 10 TO 12 INCH LOOSE LIFTS, ADEQUATELY WATERED AS NEEDED TO A NEAR-SATURATED CONDITION, AND COMPACTED WITH A VIBRATORY ROLLER OR PLATE COMPACTOR TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
10. THE SEEPAGE FILTER CAN BE CONSTRUCTED CONCURRENTLY WITH THE EMBANKMENT OR THE SEEPAGE FILTER CAN BE CONSTRUCTED BY CUTTING OUT PREVIOUSLY PLACED EMBANKMENT FILL AND BACKFILLING WITH FILTER MEDIA.

EMERGENCY SPILLWAY SECTION



FILTER DIAPHRAGM ENLARGEMENT

DAM CORE, CUTOFF TRENCH, AND EMBANKMENT FILL NOTES:

1. DAM CORE AND CUTOFF TRENCH FILL MATERIAL SHALL CLASSIFY AS ML, MH, CL OR CH PER USCS. THIS MATERIAL MAY CONSIST OF MATERIAL FROM ON-SITE BORROW PITS, OR APPROVED OFF-SITE BORROW SOURCES.
2. EMBANKMENT FILL SOIL MATERIAL SHALL CALSIFY SM, SC, ML OR CL PER USCS. THIS MATERIAL MAY CONSIST OF MATERIAL FROM ON-SITE EXCAVATIONS, ON-SITE BORROW PIS OR APPROVED OFF-SITE BORROW SOURCES.
3. UNSUITABLE EMBANKMENT FILL IS CLASSIFIED AS GW, GP, GM, GC, SW, SP, OH, OL PER USCS

EMBANKMENT CONSTRUCTION STANDARDS

1. CONTROLLED FILL, AS SPECIFIED BY THE GEOTECHNICAL ENGINEER, IN THE DAM EMBANKMENT SHALL BE PLACED IN 6-INCH LOOSE LAYERS (3-INCH LOOSE LAYERS WITHIN 3-FEET OF EITHER SIDE OF THE PRINCIPAL SPILLWAY PIPE TO A DEPTH OF 2-FEET OVER THE PIPE) AND SHALL BE COMPACTED TO A DENSITY OF NO LESS THAN 95% OF THE STANDARD PROCTOR MAXIMUM DENSITY AT A MOISTURE CONTENT OF + OR - TWO PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698.
2. ALL VISIBLE ORGANIC DEBRIS SUCH AS ROOTS AND LIMBS SHALL BE REMOVED FROM THE FILL MATERIAL PRIOR TO COMPACTION TO THE REQUIRED DENSITY. SOILS WITH ORGANIC MATTER CONTENT EXCEEDING 5% BY WEIGHT SHALL NOT BE USED. STONES GREATER THAN 3-INCH (IN ANY DIRECTION) SHALL BE REMOVED FROM THE FILL PRIOR TO COMPACTION.
3. FILL MATERIAL PLACED AT DENSITIES LOWER THAN SPECIFIED MINIMUM DENSITIES OR AT MOISTURE CONTENTS OUTSIDE THE SPECIFIED RANGES OR OTHERWISE NOT CONFORMING TO SPECIFIED REQUIREMENTS SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIALS.
4. ANY FILL LAYER THAT IS SMOOTH DRUM ROLLED TO REDUCE MOISTURE PENETRATION DURING A STORM EVENT SHALL BE PROPERLY SCARIFIED PRIOR TO THE PLACEMENT OF THE NEXT SOIL LIFT.
5. SURFACE WATER AND STREAM FLOW SHALL BE CONTINUOUSLY CONTROLLED THROUGHOUT CONSTRUCTION AND THE PLACEMENT OF CONTROLLED FILL.
6. FOUNDATION AREAS MAY REQUIRE UNDERCUTTING OF COMPRESSIBLE AND/OR UNSUITABLE SOILS IN ADDITION TO THAT INDICATED ON THE PLANS. ALL SUCH UNDERCUTTING SHALL BE PERFORMED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER AND SHALL BE MONITORED AND DOCUMENTED. IN NO CASE SHALL THERE BE AN ATTEMPT TO STABILIZE ANY PORTIONS OF THE FOUNDATION SOILS WITH CRUSHED STONE.
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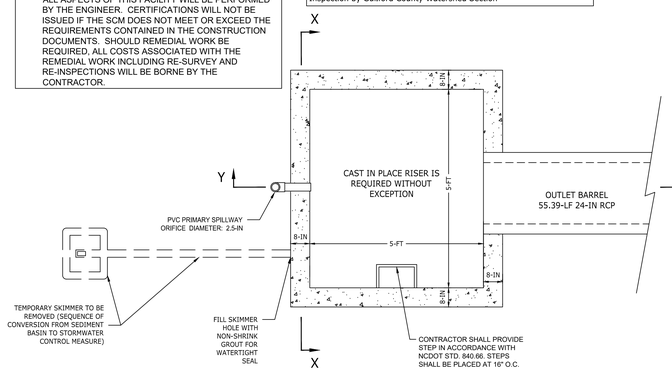
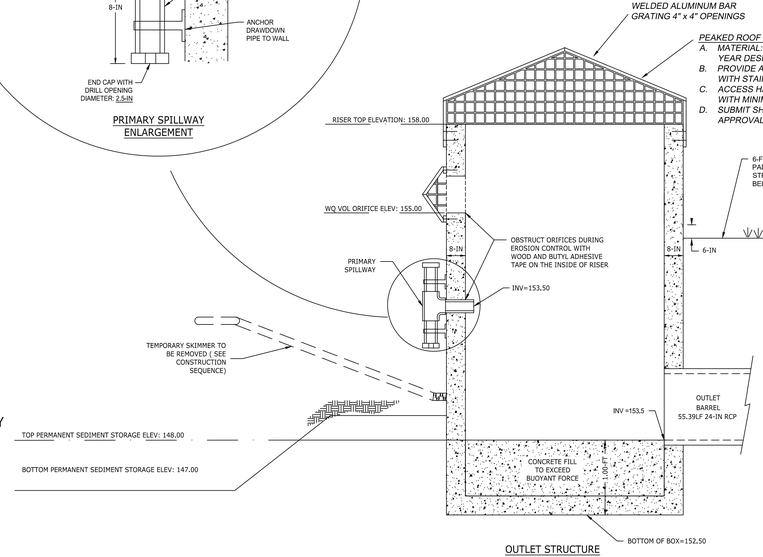
Final SCM Inspection by Engineer of Record prior to requesting Final Inspection by Guilford County Watershed Section

WET DETENTION BASIN MAINTENANCE SCHEDULE			
DESCRIPTION	METHOD	FREQUENCY	SEASON
EMBANKMENT			
INSPECT AND REPAIR EROSION / ANIMAL NESTINGS	VISUAL	ONCE PER YEAR	ALL
INSPECT AND RESEED GRASS COVERAGE	VISUAL	WHENEVER NEEDED	ALL
OUTLET STRUCTURE			
DEBRIS / OBSTRUCTIONS	BY HAND	WHENEVER NEEDED	ALL
OPERATE POND DRAIN VALVE	BY HAND	ONCE PER YEAR	ALL
EROSION AT OUTLET DISCHARGE	VISUAL	ONCE PER YEAR	ALL
FOREBAY / MAIN POOL			
SEDIMENT / DEBRIS	BY HAND	ONCE PER YEAR	ALL
REMOVE TRASH	BY HAND	WHENEVER NEEDED	ALL
CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE UNTIL PROJECT CLOSE OUT AT WHICH TIME OWNER WILL ASSUME MAINTENANCE RESPONSIBILITY.			

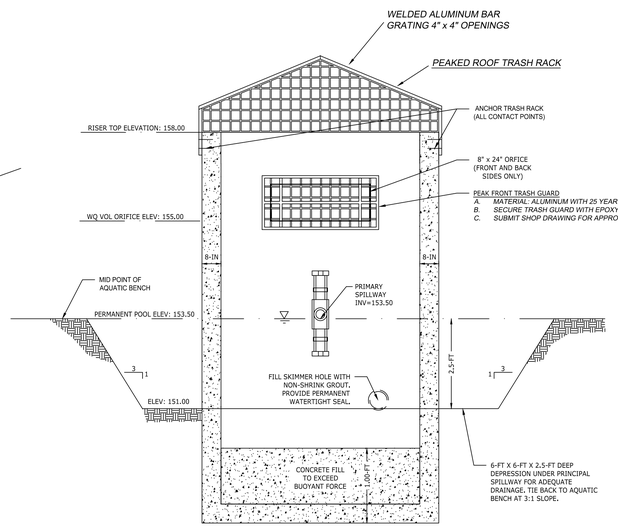
PRIMARY SPILLWAY ENLARGEMENT



OUTLET STRUCTURE PLAN VIEW



OUTLET STRUCTURE SECTION Y-Y



OUTLET STRUCTURE SECTION X-X

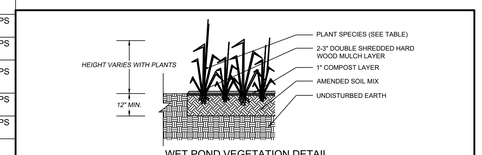
WET POND VEGETATED SHELF PLANT LIST

MINIMUM REQUIRED PLANT DENSITY = 50 PLANTS PER 200 SQUARE FEET OF VEGETATED SHELF (3,303 SF / 200 SF) * 50 PLANTS = 826 MINIMUM PLANTS REQUIRED.

THE FOLLOWING PLANTS SHALL BE PLANTED ON THE 6-FOOT WIDE VEGETATED SHELF BETWEEN THE ELEVATIONS OF 154 - 153:

QUANTITY	BOTANICAL NAME	COMMON NAME	SPACING	NOTES
138	EUPATORIADELPHUS FISTULOSUS	JOE PYE WEED	4' O.C.	PLANT IN GROUPS OF 5
138	LOBELIA SIPHILITICA	GREAT BLUE LOBELIA	4' O.C.	PLANT IN GROUPS OF 5
138	LOBELIA CARDINALIS	CARDINAL FLOWER	4' O.C.	PLANT IN GROUPS OF 5
138	EUPATORIADELPHUS MACULATUS	SPOTTED TRUMPETWEED	4' O.C.	PLANT IN GROUPS OF 5
138	ASCLEPIAS INCARNATA	SWAMP MILKWEED	4' O.C.	PLANT IN GROUPS OF 5
136	RHYNCHOSPORA COLORATA	STARRUSH PLUMEGRASS	4' O.C.	PLANT IN GROUPS OF 5

NURSERY SOURCES:
MELLOW MARSH FARM (919) 742-1200
CURE NURSERY (919) 542-6186



WET POND VEGETATION DETAIL
N.T.S.

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NORTH CAROLINA PROFESSIONAL SEAL 045892 ENGINEER William P. Ahrnen 12-13-24

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Harnett County Schools

FLATWOODS MIDDLE SCHOOL

3544 US 401 S
Lillington, NC 27546

ENERGY STAR PARTNER

No.	Date	Description
1	12-06-24	NCDOT CD
2	12-13-24	CD REVISIONS
3	12-06-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24
PROJECT #: 63089
DRAWN BY: JG
CHECKED BY: WA

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SCM DETAIL SHEET POND B

C4.8

Wet Detention Pond Design Summary

Wet Pond Diagram

WET POND ID		FOREBAY		MAIN POND	
SCM A		Permanent Pool El:	149.5	Permanent Pool El:	149.5
		Temporary Pool El:	151.2	Temporary Pool El:	151.2
Pretreatment other than foreby?	No	Clean Out Depth:	4.5	Clean Out Depth:	7.5
Has Veg. Filter?	Yes	Sediment Removal El:	145	Sediment Removal El:	142
		Bottom Elevation:	146	Bottom Elevation:	143

WET POND ID		FOREBAY		MAIN POND	
SCM B		Permanent Pool El:	153.5	Permanent Pool El:	153.5
		Temporary Pool El:	155	Temporary Pool El:	155
Pretreatment other than foreby?	No	Clean Out Depth:	5.5	Clean Out Depth:	6.5
Has Veg. Filter?	Yes	Sediment Removal El:	148	Sediment Removal El:	147
		Bottom Elevation:	149	Bottom Elevation:	148

ATTACH ADDITIONAL SHEETS IF NECESSARY

1

Wet Pond Maintenance Requirements (Continued)

SCM element:	Potential problem:	How to remediate the problem:
The main treatment area	Sediment has accumulated to a depth greater than the original design sediment storage depth.	Search for the source of the sediment and remedy the problem if possible. Remove the sediment and dispose of it in a location where it will not cause impacts to streams or the SCM.
	Algal growth covers over 50% of the area.	Consult a professional to remove and control the algal growth.
	Cattails, phragmites or other invasive plants cover 50% of the basin surface.	Remove the plants by wiping them with pesticide (do not spray).
The vegetated shelf	Best professional practices show that pruning is needed to maintain optimal plant health.	Prune according to best professional practices.
	Plants are dead, diseased or dying.	Determine the source of the problem: soils, hydrology, disease, etc. Remedy the problem and replace plants. Provide a one-time fertilizer application to establish the ground cover if a soil test indicates it is necessary.
	Weeds are present.	Remove the weeds, preferably by hand. If pesticide is used, wipe it on the plants rather than spraying.
The embankment	Shrubs have started to grow on the embankment.	Remove shrubs immediately.
	Evidence of muskrat or beaver activity is present.	Consult a professional to remove muskrats or beavers and repair any holes or erosion.
	A tree has started to grow on the embankment.	Consult a dam safety specialist to remove the tree.
	An annual inspection by an appropriate professional shows that the embankment needs repair.	Make all needed repairs immediately.
The outlet device	Clogging has occurred.	Clean out the outlet device and dispose of any sediment in a location where it will not cause impacts to streams or the SCM.
	The outlet device is damaged.	Repair or replace the outlet device.
Floating wetland island (if applicable)	Weeds or volunteer trees are growing on the mat.	Remove the weeds or trees.
	The anchor cable is damaged, disconnected or missing.	Restore the anchor cable to its design state.

Wet Pond Maintenance Requirements (Continued)

SCM element:	Potential problem:	How to remediate the problem:
The receiving water	Erosion or other signs of damage have occurred at the outlet.	Repair the damage and improve the flow dissipation structure.
	Discharges from the wet pond are causing erosion or sedimentation in the receiving water.	Contact the local NCDEQ Regional Office.

Operation & Maintenance Agreement

Project Name: Flatwoods Middle School

Project Location: US 401 S, Lillington, NC 27546

Cover Page

Maintenance records shall be kept on the following SCM(s). This maintenance record shall be kept in a log in a known set location. Any deficient SCM elements noted in the inspection will be corrected, repaired, or replaced immediately. These deficiencies can affect the integrity of structures, safety of the public, and the pollutant removal efficiency of the SCM(s).

The SCM(s) on this project include (check all that apply & corresponding O&M sheets will be added automatically):

Infiltration Basin	Quantity:		Location(s):	
Infiltration Trench	Quantity:		Location(s):	
Bioretention Cell	Quantity:		Location(s):	
Wet Pond	Quantity:	2	Location(s):	South east and south west of site
Stormwater Wetland	Quantity:		Location(s):	
Permeable Pavement	Quantity:		Location(s):	
Sand Filter	Quantity:		Location(s):	
Rainwater Harvesting	Quantity:		Location(s):	
Green Roof	Quantity:		Location(s):	
Level Spreader - Filter Strip	Quantity:		Location(s):	
Proprietary System	Quantity:		Location(s):	
Treatment Swale	Quantity:		Location(s):	
Dry Pond	Quantity:		Location(s):	
Disconnected Impervious Surface	Present:	No	Location(s):	
User Defined SCM	Present:	No	Location(s):	
Low Density	Present:	No	Type:	

I acknowledge and agree by my signature below that I am responsible for the performance of the maintenance procedures listed for each SCM above, and attached O&M tables. I agree to notify NCDEQ of any problems with the system or prior to any changes to the system or responsible party.

Responsible Party:	James Steven Matthews
Title & Organization:	Director - Harnett County Schools
Street address:	1500 S. Main St.
City, state, zip:	Lillington, NC 27546
Phone number(s):	910-893-4908
Email:	smatthews@harnett.k12.nc.us

Signature: _____ Date: 6-5-24

I, Tammy S. Johnson, a Notary Public for the State of North Carolina County of Harnett, do hereby certify that James Steven Matthews personally appeared before me this 5 day of June, 2024 and acknowledge the due execution of the Operations and Maintenance Agreement.

Witness my hand and official seal, Tammy S. Johnson

TAMMY S JOHNSON NOTARY PUBLIC HARNETT COUNTY NC MY COMMISSION EXPIRES 12-20-27

Seal

My commission expires 12-20-27

Wet Pond Maintenance Requirements

Important operation and maintenance procedures:

- Immediately after the wet detention basin is established, the plants on the vegetated shelf and perimeter of the basin should be watered twice weekly if needed, until the plants become established (commonly six weeks).
- No portion of the wet pond should be fertilized after the initial fertilization that is required to establish the plants on the vegetated shelf.
- Stable groundcover will be maintained in the drainage area to reduce the sediment load to the wet pond.
- If the pond must be drained for an emergency or to perform maintenance, the flushing of sediment through the emergency drain will be minimized as much as possible.
- At least once annually, a dam safety expert will inspect the embankment. Any problems that are found will be repaired immediately.
- The measuring device used to determine the sediment elevation shall be such that it will give an accurate depth reading and not readily penetrate into accumulated sediments.

After the wet pond is established, it will be inspected **quarterly and within 24 hours after every storm event greater than 1.0 inches (or 1.5 inches if in a Coastal County)**. Records of operation and maintenance shall be kept in a known set location and shall be available upon request.

Inspection activities shall be performed as follows. Any problems that are found shall be repaired immediately.

SCM element:	Potential problem:	How to remediate the problem:
The entire wet pond	Trash/debris is present.	Remove the trash/debris.
The perimeter of the wet pond	Areas of bare soil and/or erosive gullies have formed.	Regrade the soil if necessary to remove the gully, plant ground cover and water until it is established. Provide lime and a one-time fertilizer application.
The inlet device	The inlet pipe is clogged (if applicable).	Unclog the pipe. Dispose of the sediment off-site.
	The inlet pipe is cracked or otherwise damaged (if applicable).	Repair or replace the pipe.
	Erosion is occurring in the swale (if applicable).	Regrade the swale if necessary and provide erosion control devices such as reinforced turf matting or riprap to avoid future problems with erosion.
The forebay	Sediment has accumulated to a depth greater than the original design depth for sediment storage.	Search for the source of the sediment and remedy the problem if possible. Remove the sediment and dispose of it in a location where it will not cause impacts to streams or the SCM.
	Erosion has occurred.	Provide additional erosion protection such as reinforced turf matting or riprap if needed to prevent future erosion problems.
	Weeds are present.	Remove the weeds, preferably by hand. If pesticide is used, wipe it on the plants rather than spraying.

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Lillington, NC 27546

ENERGY STAR PARTNER

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ISSUE DATE: 11-08-24
PROJECT #: 63089
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O&M AGREEMENT

C4.9

FLATWOODS MIDDLE SCHOOL

Harnett County Schools

3544 US 401 S
Lillington, NC 27546

ENERGY STAR PARTNER

No.	Date	Description
1	12-06-24	NCDOT CD
2	12-13-24	DD RESPONSES
3	12-20-24	DOMTY CD RETHEW

ISSUE DATE: 11-08-24
PROJECT #: 63089
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DRAINAGE AREA MAP

C4.10

CONSTRUCTION DOCUMENTS

NORTH CAROLINA PROFESSIONAL SEAL 045992 ENGINEER William P. Allen

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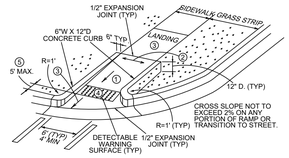
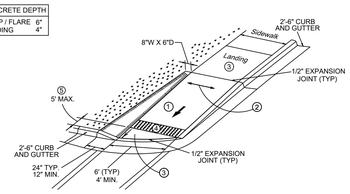


TYPE A

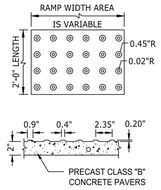
CONCRETE DEPTH	
RAMP / FLARE	6"
LANDING	4"



TYPE B

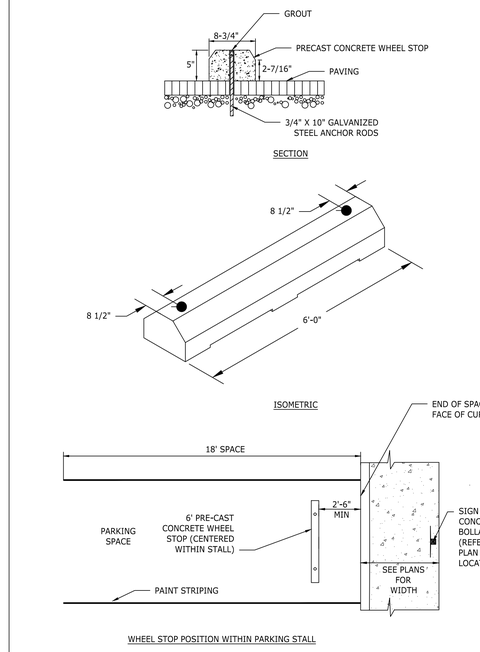
NOTES:

1. 8.33% (12:1) MAX RAMP SLOPE
2. CROSS SLOPE: 2.00%
3. CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.
4. RAMPS AND DOMES SHALL BE INSTALLED THE SAME WIDTH AS THE SIDEWALK. DETECTABLE WARNING DOMES SHALL COVER 2'-0" LENGTH OF THE RAMP.
5. IF LENGTH EXCEEDS 5', TRUNCATED DOMES SHALL BE INSTALLED ALONG THE BACK OF THE CURB COVERING THE FULL WIDTH OF THE RAMP.

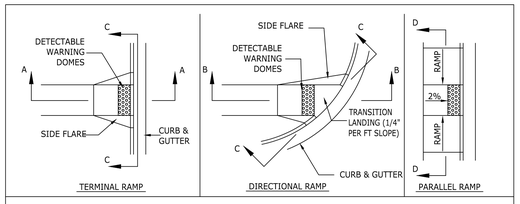


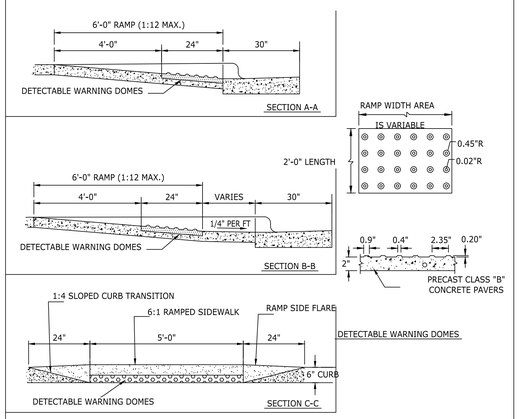
DETECTABLE WARNING DOMES

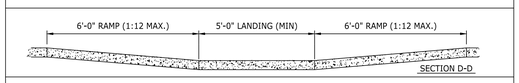
ACCESSIBLE CURB RAMPS
NO SCALE



PRE-CAST CONCRETE WHEELSTOP
NO SCALE



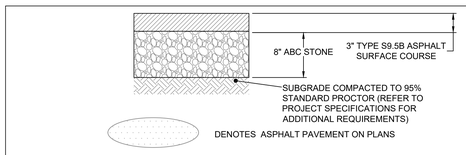




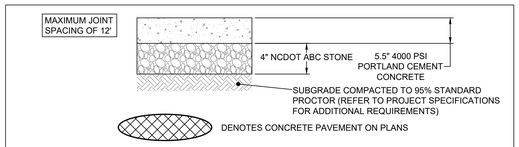
NOTES:

1. NO SLOPE ON THE SIDEWALK ACCESS RAMP SHALL EXCEED 1"/1' (1:12) IN RELATIONSHIP TO THE GRADE OF THE STREET.
2. IN NO CASE SHALL THE WIDTH OF THE ACCESS RAMP BE LESS THAN 48" (4'-0")
3. DETECTABLE WARNING DOMES SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN.

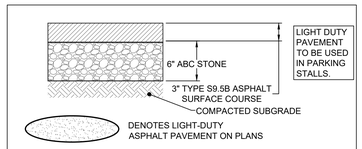
ACCESSIBLE CURB RAMPS
NO SCALE



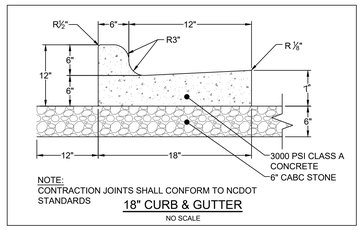
HEAVY DUTY ASPHALT
NO SCALE



HEAVY DUTY CONCRETE PAVEMENT
NO SCALE

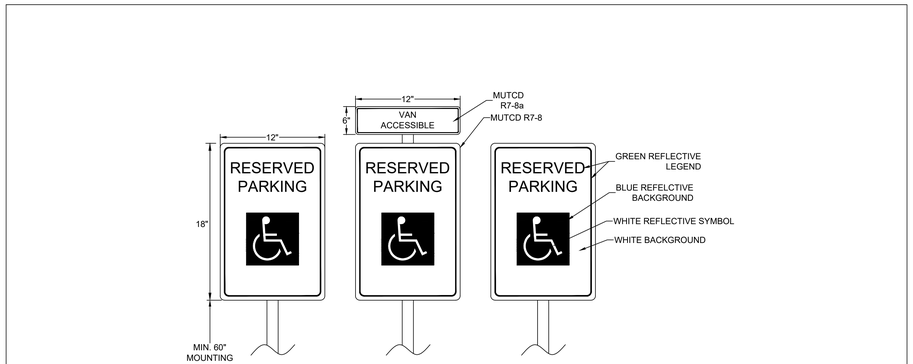


LIGHT-DUTY ASPHALT
NO SCALE



NOTE:
CONTRACTION JOINTS SHALL CONFORM TO NCDOT STANDARDS

18" CURB & GUTTER
NO SCALE



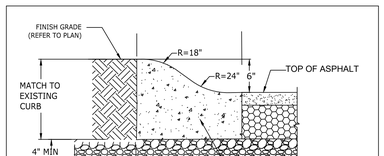
ACCESSIBLE & PREFERRED PARKING SIGN FOUNDATION
N.T.S.

TYPICAL ACCESSIBLE SPACE LAYOUT

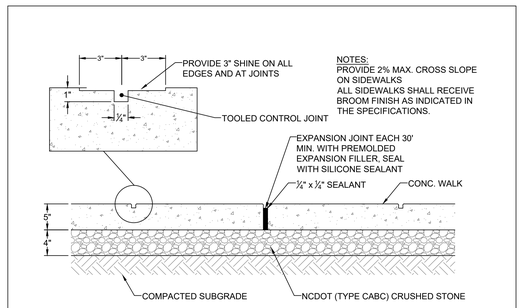
NOTE:

1. VERIFY WITH SITE PLANS FOR NON-TYPICAL ACCESSIBLE SPACES.
2. FOR SPACES LABELED 'VAN' PROVIDE MUTCD R7-8 SIGN AND ADDITIONAL R7-8a.

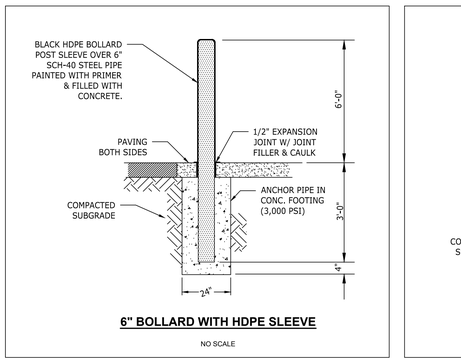
ACCESSIBLE PARKING SPACE MARKINGS AND SIGNAGE
NO SCALE



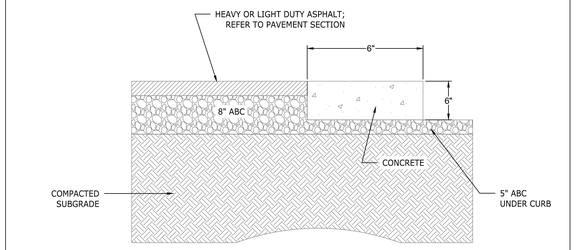
ROLLED FACE CURB & GUTTER (SECTION)
NO SCALE



CONCRETE SIDEWALK
NO SCALE



6" BOLLARD WITH HDPE SLEEVE
NO SCALE



6" RIBBON CURB DETAIL
NOT TO SCALE

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NOTES AND DETAILS

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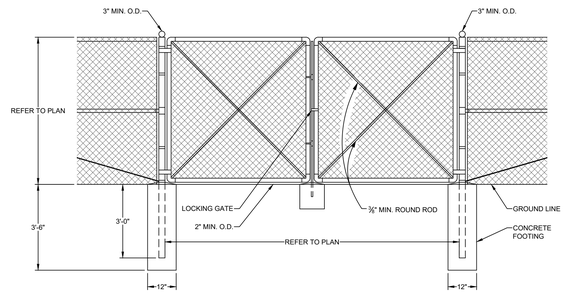
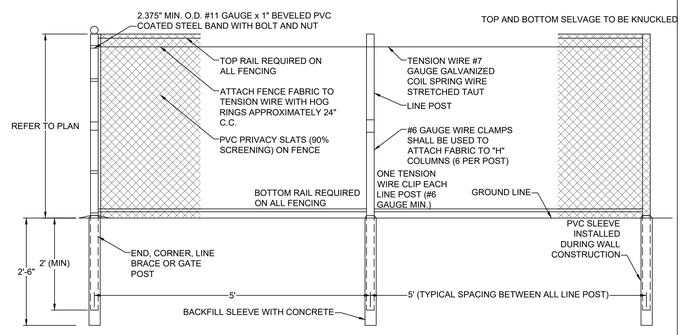


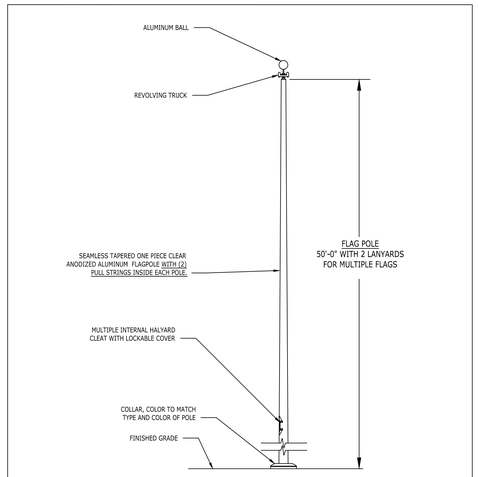
GALVANIZED CHAIN LINK DOUBLE SWING GATE

NO SCALE



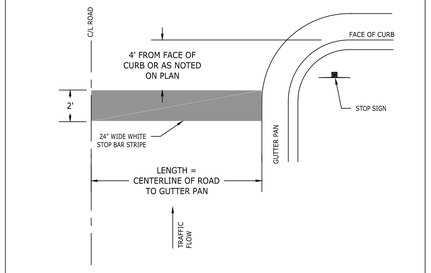
GALVANIZED CHAIN LINK FENCE DETAIL

NO SCALE



FLAG POLE

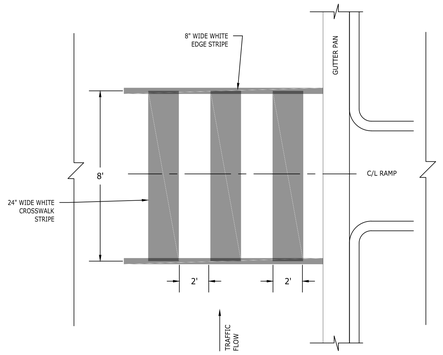
NO SCALE



NOTE:
1. ALL STOP BAR MARKINGS SHALL BE REFLECTORIZED 120-mil THICK WHITE THERMOPLASTIC WITH GLASS BEADS.

STOP BAR

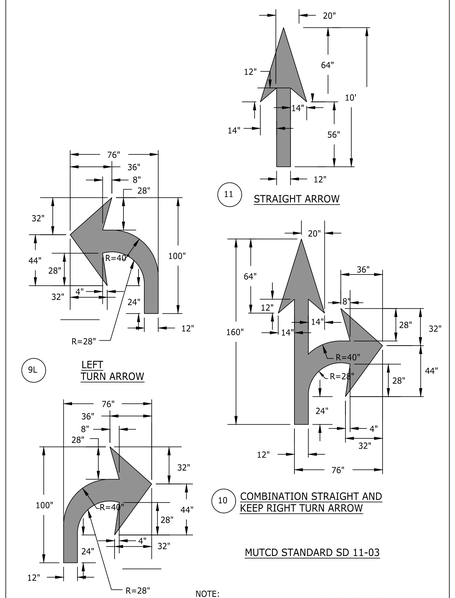
NO SCALE



NOTES:
1. ALL CROSSWALK MARKINGS SHALL BE REFLECTORIZED 120-mil THERMOPLASTIC.

HIGH VISIBILITY CROSSWALK

NO SCALE

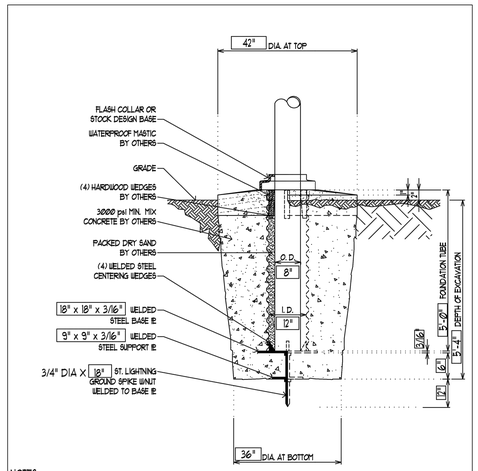


MUTCD STANDARD SD 11-03

NOTE:
1. ALL ARROW MARKINGS SHALL BE REFLECTORIZED 120-mil THICK WHITE THERMOPLASTIC WITH GLASS BEADS.

PAVEMENT ARROW SYMBOLS

NO SCALE

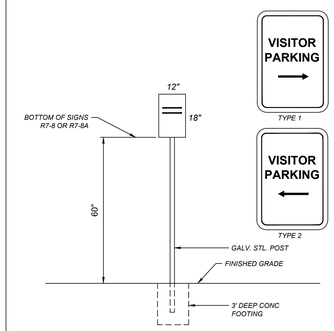


NOTES-
THIS FOUNDATION DETAIL IS A RECOMMENDATION ONLY AND IS BASED ON GOOD, FIRM, DRY SOIL. ACTUAL FOUNDATION DESIGN IS THE RESPONSIBILITY OF THE PROJECT ENGINEER. IF ADDITIONAL FOUNDATION DEPTH IS REQUIRED, THE SPIKE CAN BE LENGTHENED AND THE DISTANCE BETWEEN THE BASEPLATE AND SUPPORT PLATE CAN BE INCREASED.

CARE MUST BE EXERCISED IN SETTING TUBE PLUMB & LEVEL IN FORMS AND IT MUST BE SECURED SO IT DOES NOT SHIFT WHEN POURING CONCRETE

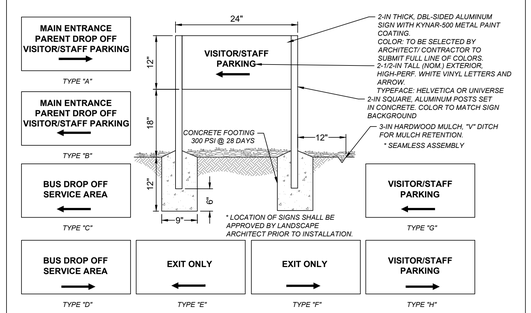
50' FLAG POLE BASE

NO SCALE



VISITOR PARKING SIGNAGE

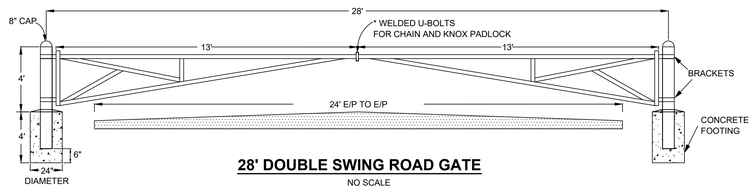
N.T.S.



SCHOOL DIRECTIONAL SIGNAGE

N.T.S.

GATES SHALL BE 3" GALVANIZED PIPE (WELD SEAMS AND PAINT W/ GALVANIZED PRIMER AND PAINT)

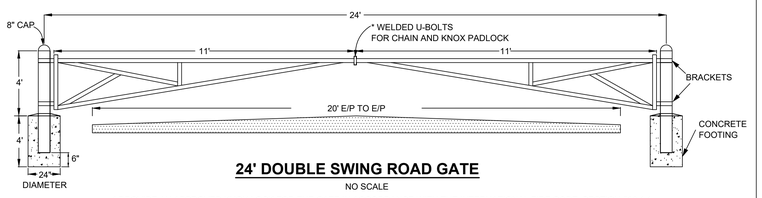


28' DOUBLE SWING ROAD GATE

NO SCALE

* PROVIDE AN APPROVED KNOX LOCK FOR THE GATE IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE, SECTION 506.1.1.
* CONSTRUCT GATE STOPS TO HOLD GATES IN OPEN POSITION
SUBMIT FABRICATION DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION

GATES SHALL BE 3" GALVANIZED PIPE (WELD SEAMS AND PAINT W/ GALVANIZED PRIMER AND PAINT)



24' DOUBLE SWING ROAD GATE

NO SCALE

* PROVIDE AN APPROVED KNOX LOCK FOR THE GATE IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE, SECTION 506.1.1.
* CONSTRUCT GATE STOPS TO HOLD GATES IN OPEN POSITION
SUBMIT FABRICATION DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION

[redacted]

NORTH CAROLINA PROFESSIONAL SEAL 045892 ENGINEER William P. Ahlman 12-13-24

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R2009-222

Harnett County Schools

FLATWOODS MIDDLE SCHOOL

3544 US 401 S
Lillington, NC 27546

ENERGY STAR PARTNER

No.	Date	Description
1	12-06-24	NCDOI CD
2	12-13-24	CD REVISIONS
3	12-06-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24
PROJECT #: 63089
DRAWN BY: JG
CHECKED BY: WA

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NOTES AND DETAILS

C5.1

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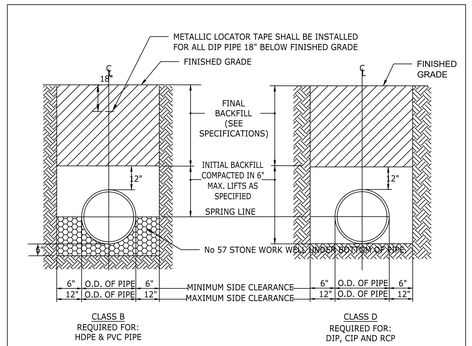
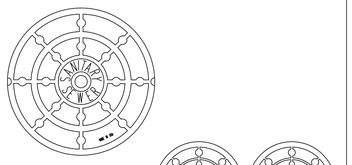


NOTES

1. FOR TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL BACKFILL.
3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.
4. BACKFILL SHALL BE TAMPED IN 6" LAYERS.
5. IF ROCK IS ENCOUNTERED AT BOTTOM OF TRENCH, OVER EXCAVATE ROCK A MIN. OF 6"CHS AND BACK FILL WITH NO. 67 STONE TO THE BOTTOM OF PIPE.

TRENCH BOTTOM AND BACKFILLING REQUIREMENTS

NO SCALE

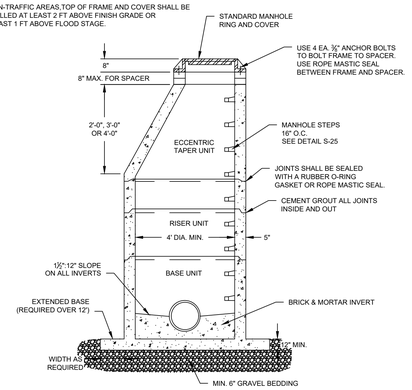


NOTE:
CONCRETE ENCASEMENT SHALL ONLY BE USED IN AREAS WHERE COVER IS TO BE FLUSH WITH PAVEMENT OR CONCRETE. CONCRETE ENCASEMENT SHALL NOT BE USED IN NON-TRAFFIC AREAS AND ABOVE GRADE INSTALLATIONS.

TYPICAL STANDARD MANHOLE FRAME & COVER DETAIL

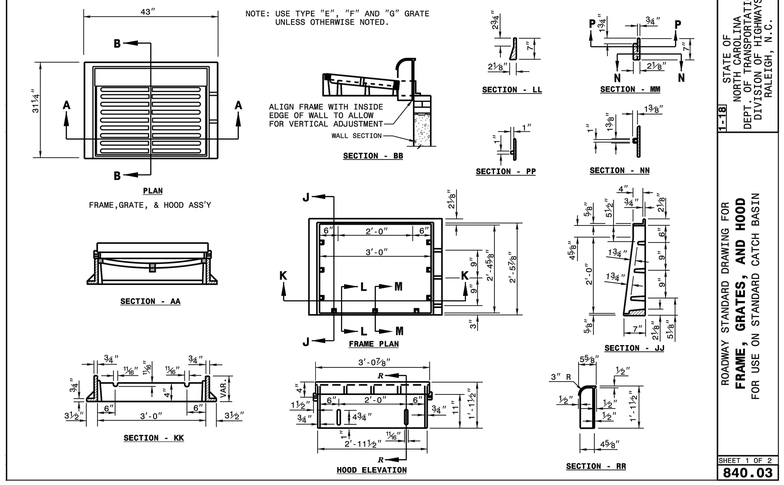
NO SCALE

NOTE:
IN NON-TRAFFIC AREAS,TOP OF FRAME AND COVER SHALL BE INSTALLED AT LEAST 2 FT ABOVE FINISH GRADE OR AT LEAST 1 FT ABOVE FLOOD STAGE.



TYPICAL STANDARD PRECAST CONCRETE MANHOLE DETAIL

NO SCALE



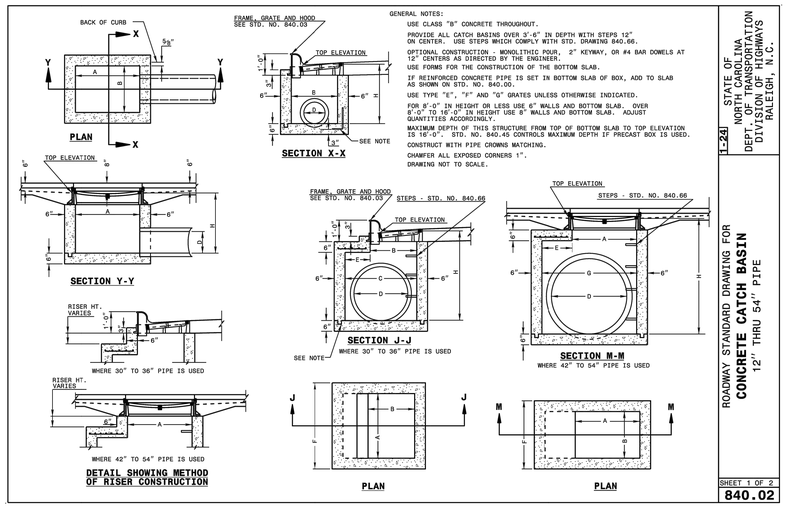
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-18

ROADWAY STANDARD DRAWING FOR **FRAME, GRATES, AND HOOD** FOR USE ON STANDARD CATCH BASIN

SHEET 1 OF 2

840.03



GENERAL NOTES:

USE CLASS "B" CONCRETE THROUGHOUT.

PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.

OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.

USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.

IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.

USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.

FOR 8'-0" IN HEIGHT OR LESS USE 6" WALLS AND BOTTOM SLAB. OVER 8'-0" TO 16'-0" IN HEIGHT USE 8" WALLS AND BOTTOM SLAB. ADJUST QUANTITIES ACCORDINGLY.

MAXIMUM DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 16'-0". STD. NO. 840.45 CONTROLS MAXIMUM DEPTH IF PRECAST BOX IS USED.

CONSTRUCT WITH PIPE CROWNS MATCHING.

CHAMFER ALL EXPOSED CORNERS 1".

DRAWING NOT TO SCALE.

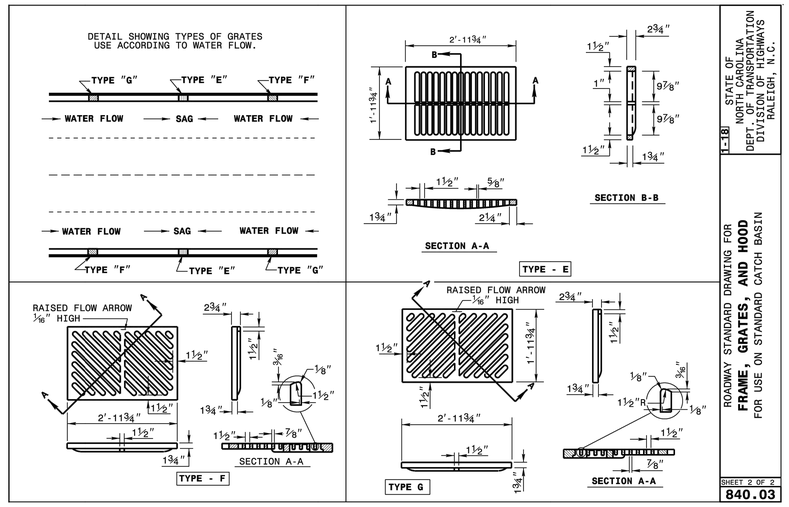
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR **CONCRETE CATCH BASIN** 12" THRU 54" PIPE

SHEET 1 OF 2

840.02



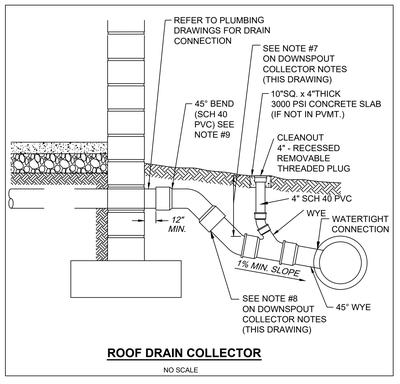
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-18

ROADWAY STANDARD DRAWING FOR **FRAME, GRATES, AND HOOD** FOR USE ON STANDARD CATCH BASIN

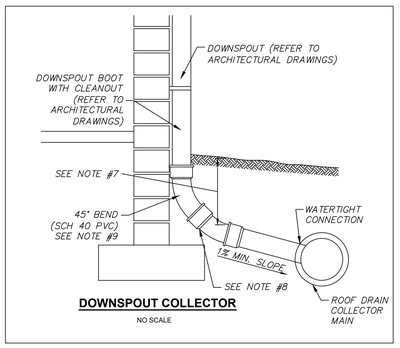
SHEET 2 OF 2

840.03



ROOF DRAIN COLLECTOR

NO SCALE

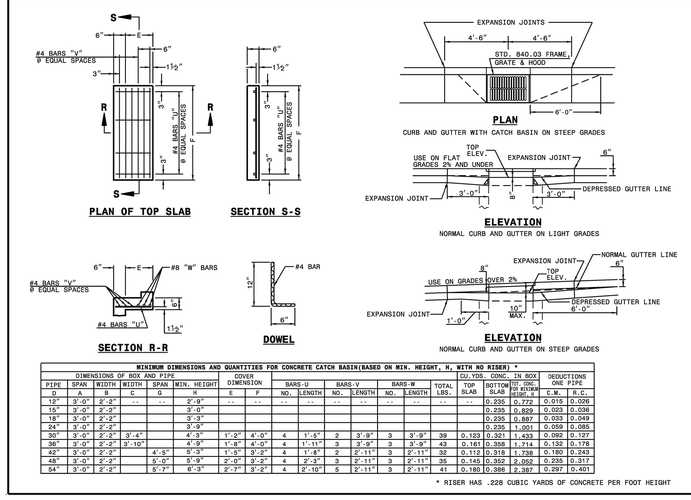


DOWNSPOUT COLLECTOR

NO SCALE

DOWNSPOUT COLLECTOR NOTES:

1. CONNECT ALL BUILDING DOWNSPOUTS INTO THE ROOF DRAIN COLLECTOR SYSTEM OR DIRECTLY INTO THE STORM SEWER SYSTEM.
2. THE ROOF DRAIN COLLECTOR SYSTEM IS SMOOTH-LINED, CORRUGATED POLYETHYLENE PIPE LAID AT MINIMUM SLOPES AS INDICATED.
3. PIPES CONNECTING TO INDIVIDUAL DOWNSPOUTS ARE 6" PROVIDE MINIMUM 6" PIPE SIZE 5' OUTSIDE BUILDING. ALL OTHER DRAIN PIPES ARE SIZED AS INDICATED INCREASING IN SIZE FROM UPSTREAM TO DOWNSTREAM.
4. PROVIDE CLEANOUTS AS INDICATED AND AS REQUIRED BY LOCAL BUILDING CODE.
5. MAKE CONNECTIONS INTO CONCRETE PIPES WITH A FLEXIBLE WATERTIGHT TEE CONNECTOR THAT IS MECHANICALLY EXPANDED INTO A CORDED OPENING. CONNECTOR SHALL BE KOR-N-TEE OR APPROVED EQUAL.
6. MAINTAIN ADEQUATE OUTFALL FOR ROOF DRAIN DURING AND AFTER THE COMPLETION OF CONSTRUCTION.
7. MINIMUM DEPTH OF COVER SHALL BE ONE (1) FOOT. FOR ALL DEPTHS OF COVER LESS THAN TWO (2) FEET, PIPE MUST BE SCHEDULE 40 PVC. FOR DEPTHS OF COVER GREATER THAN TWO (2) FEET, FLEXIBLE PIPE MAY BE USED. REFER TO SPECIFICATIONS FOR ALLOWABLE PIPE TYPES.
8. MAINTAIN A WATERTIGHT CONNECTION AT ALL PIPE CONNECTIONS BELOW GRADE.
9. INSTALL THE DOWNSPOUT COLLECTOR DRAIN BEFORE THE DOWNSPOUTS ARE INSTALLED ON THE BUILDING. THE SITE WORK CONTRACTOR IS RESPONSIBLE FOR ALL WORK TO AND INCLUDING THE 45° BEND. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DOWNSPOUTS ON BUILDING EXTERIOR WALLS.



MINIMUM DIMENSIONS AND QUANTITIES FOR CONCRETE CATCH BASIN(BASED ON MIN. HEIGHT, H, WITH NO RISER) *

DIMENSIONS OF BOX AND PIPE							COVER DIMENSION		BARS-U		BARS-V		BARS-W		TOTAL LBS.	CU.YDS. CONC. IN BOX		DEDUCTIONS ONE PIPE	
PIPE D	SPAN A	WIDTH B	C	SPAN G	MIN. HEIGHT H		E	F	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH		TOP SLAB	BOTTOM SLAB	INT. CONC. FOR RISER HEIGHT, H	C.W.	R.C.
12"	3'-0"	2'-2"	--	--	2'-9"		--	--	--	--	--	--	--	--	--	--	0.235	0.772	0.015	0.026
15"	3'-0"	2'-2"			3'-0"												0.235	0.829	0.023	0.036
18"	3'-0"	2'-2"			3'-3"												0.235	0.887	0.033	0.049
24"	3'-0"	2'-2"			3'-9"												0.235	1.001	0.059	0.085
30"	3'-0"	2'-2"	3'-4"		4'-3"		1'-2"	4'-0"	4	1'-5"	2	3'-9"	3	3'-9"	39	0.123	0.321	1.433	0.090	0.127
36"	3'-0"	2'-2"	3'-10"		4'-9"		1'-8"	4'-0"	4	1'-11"	3	3'-9"	3	3'-9"	43	0.161	0.358	1.714	0.132	0.178
42"	3'-0"	2'-2"		4'-5"	5'-3"		1'-5"	3'-2"	4	1'-8"	2	2'-11"	3	2'-11"	32	0.112	0.318	1.738	0.180	0.243
48"	3'-0"	2'-2"		5'-0"	5'-9"		2'-0"	3'-2"	4	2'-3"	3	2'-11"	3	2'-11"	35	0.145	0.352	2.052	0.235	0.317
54"	3'-0"	2'-2"		5'-7"	6'-3"		2'-7"	3'-2"	4	2'-10"	5	2'-11"	3	2'-11"	41	0.180	0.386	2.387	0.297	0.401

* RISER HAS .228 CUBIC YARDS OF CONCRETE PER FOOT HEIGHT

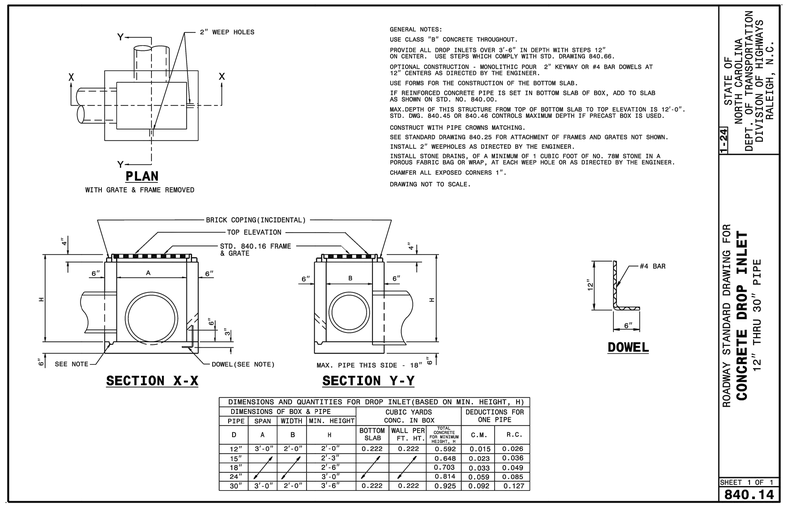
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR **CONCRETE CATCH BASIN** 12" THRU 54" PIPE

SHEET 2 OF 2

840.02



GENERAL NOTES:

USE CLASS "B" CONCRETE THROUGHOUT.

PROVIDE ALL DROP INLETS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.

OPTIONAL CONSTRUCTION - MONOLITHIC POUR 2" KEYWAY OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.

USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.

IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.

MAX.DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 12'-0". STD. DWG. 840.45 OR 840.46 CONTROLS MAXIMUM DEPTH IF PRECAST BOX IS USED.

CONSTRUCT WITH PIPE CROWNS MATCHING.

SEE STANDARD DRAWING 840.25 FOR ATTACHMENT OF FRAMES AND GRATES NOT SHOWN.

INSTALL 2" WEEPHOLES AS DIRECTED BY THE ENGINEER.

INSTALL STONE DRAINS, OF A MINIMUM OF 1 CUBIC FOOT OF NO. 78M STONE IN A POROUS FABRIC BAG OR WRAP, AT EACH WEEP HOLE OR AS DIRECTED BY THE ENGINEER.

CHAMFER ALL EXPOSED CORNERS 1".

DRAWING NOT TO SCALE.

DIMENSIONS AND QUANTITIES FOR DROP INLET(BASED ON MIN. HEIGHT, H)

DIMENSIONS OF BOX & PIPE				CUBIC YARDS CONC. IN BOX			DEDUCTIONS FOR ONE PIPE	
PIPE D	SPAN A	WIDTH B	MIN. HEIGHT H	BOTTOM SLAB	WALL PER FT. HT.	TOTAL CONCRETE FOR MINIMUM HEIGHT	C.W.	R.C.
12"	3'-0"	2'-0"	2'-0"	0.222	0.222	0.592	0.015	0.026
15"	/	/	2'-3"	/	/	0.648	0.023	0.036
18"	/	/	2'-6"	/	/	0.703	0.033	0.049
24"	/	/	3'-0"	/	/	0.814	0.059	0.085
30"	3'-0"	2'-0"	3'-6"	0.222	0.222	0.925	0.092	0.127

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR **CONCRETE DROP INLET** 12" THRU 30" PIPE

SHEET 1 OF 1

840.14

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Harnett County Schools

FLATWOODS MIDDLE SCHOOL

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ENERGY STAR PARTNER

No.	Date	Description
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ISSUE DATE: 11-08-24
PROJECT #: 63089
DRAWN BY: JG
CHECKED BY: WA

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NOTES AND DETAILS

C5.2

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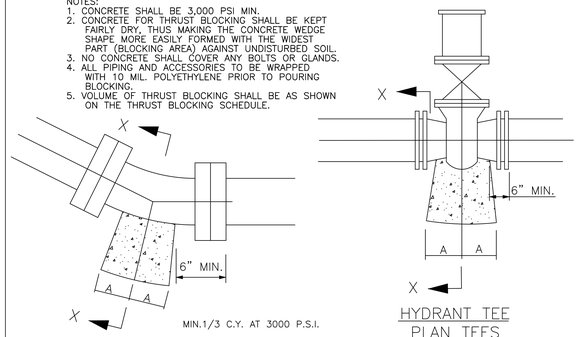
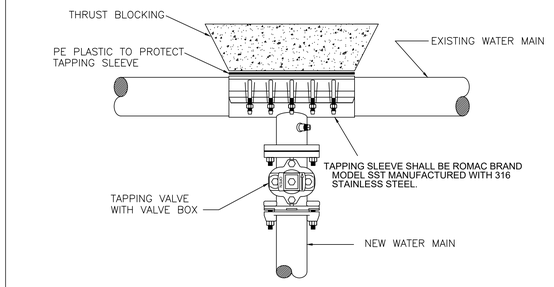
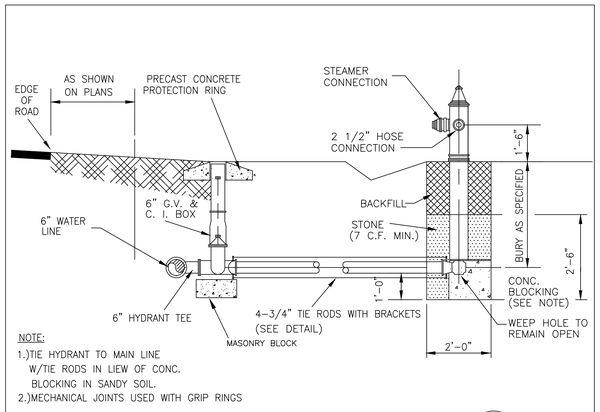


PIPE SIZE	90° BEND		45° BEND		22 1/2° BEND		11/4° BEND		TEE		PLUG	
	A	B	A	B	A	B	A	B	A	B	C	D
4"	8"	12"	8"	8"	6"	6"	6"	6"	8"	9"	10"	16"
6"	10"	12"	8"	10"	8"	8"	8"	8"	10"	10"	12"	18"
8"	15"	13"	10"	10"	8"	8"	8"	8"	10"	12"	12"	24"
10"	16"	14"	10"	12"	6"	10"	6"	10"	11"	14"	14"	25"
12"	20"	16"	12"	14"	8"	12"	8"	12"	14"	16"	16"	30"
14"	22"	18"	14"	16"	10"	14"	10"	14"	16"	18"	18"	34"
16"	26"	20"	16"	18"	12"	16"	12"	16"	18"	20"	20"	36"

TYPICAL THRUST BLOCK DETAIL — W 7
NO SCALE

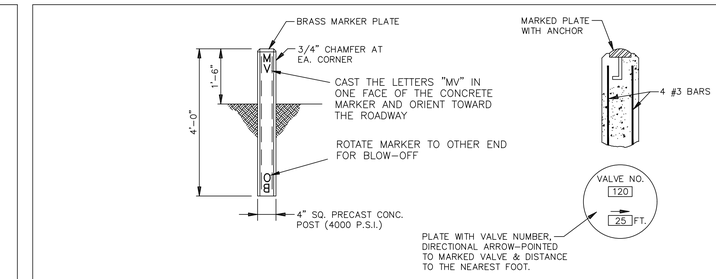


TYPICAL TAPPING SLEEVE AND VALVE ASSEMBLY DETAIL — W 5
NO SCALE



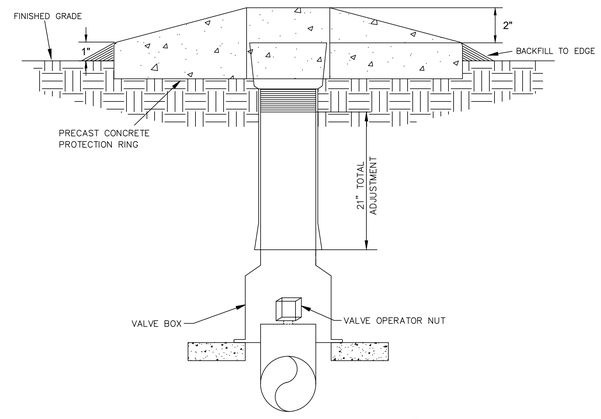
NOTE:
1.)TIE HYDRANT TO MAIN LINE W/TIE RODS IN LIEW OF CONC. BLOCKING IN SANDY SOIL.
2.)MECHANICAL JOINTS USED WITH GRIP RINGS

TYPICAL FIRE HYDRANT INSTALLATION DETAIL — W 6
NO SCALE



TYPICAL VALVE MARKER DETAIL — W 1
NO SCALE

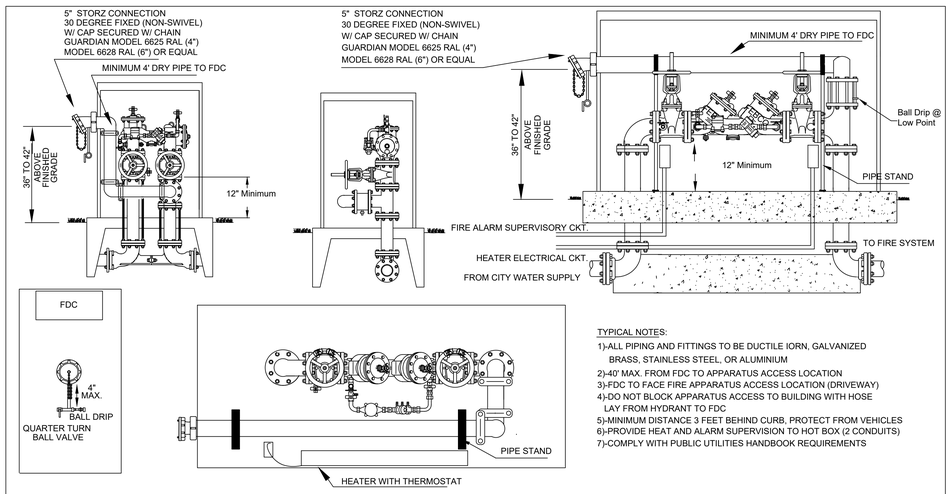
NOTES:
PAINT MARKER BLUE AFTER INSTALLATION



TYPICAL VALVE BOX DETAIL — W 2
NO SCALE

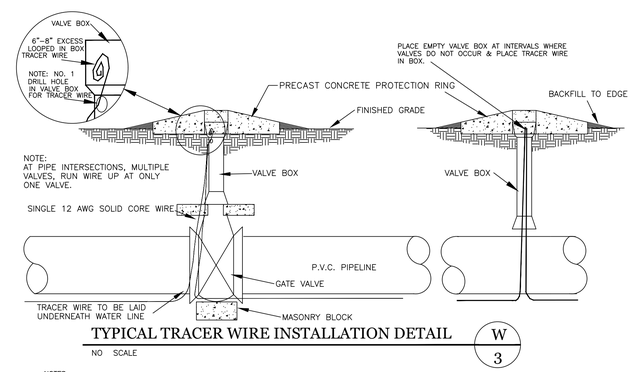
LAYING CONDITIONS	DESCRIPTION	PROJECT USE
TYPE 1	FLAT BOTTOM UNDISTURBED EARTH TRENCH, LOOSE BACKFILL	NOT USED.
TYPE 2	FLAT BOTTOMED UNDISTURBED EARTH TRENCH, BACKFILL LIGHTLY CONSOLIDATED TO CENTERLINE OF PIPE.	NOT USED.
TYPE 3	PIPE BEDDED IN 4" MININUM JOB EXCAVATED MATERIAL, BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE.	ALL DUCTILE IRON GRAVITY SEWER LINE.
TYPE 4	PIPE BEDDED IN SAND, GRANULAR MATERIAL OR GRADED GRAVEL TO THE DEPTH OF 1/8 PIPE DIAMETER, 4" MIN. JOB EXCAVATED MATERIAL COMPACTED TO 4" ABOVE TOP OF PIPE. (APPROX. 95% STANDARD PROCTOR, AASHTO T-99)	ALL PVC WATER LINE AND PVC FORCE MAIN.
TYPE 5	PIPE BEDDED TO ITS CENTERLINE IN COMPACTED GRANULAR MATERIAL 4" MIN. UNDER PIPE. COMPACTED GRANULAR OR SAND MATERIAL TO 4"ABOVE TOP OF PIPE. (APPROX. 95% STANDARD PROCTOR, AASHTO T-99)	ALL PVC GRAVITY SEWER LINE.

TYPICAL LAYING CONDITIONS DETAIL — S 33
NO SCALE



TYPICAL NOTES:
1)-ALL PIPING AND FITTINGS TO BE DUCTILE IORN, GALVANIZED BRASS, STAINLESS STEEL, OR ALUMINIUM
2)-40' MAX. FROM FDC TO APPARATUS ACCESS LOCATION
3)-FDC TO FACE FIRE APPARATUS ACCESS LOCATION (DRIVEWAY)
4)-DO NOT BLOCK APPARATUS ACCESS TO BUILDING WITH HOSE LAY FROM HYDRANT TO FDC
5)-MINIMUM DISTANCE 3 FEET BEHIND CURB, PROTECT FROM VEHICLES
6)-PROVIDE HEAT AND ALARM SUPERVISION TO HOT BOX (2 CONDUITS)
7)-COMPLY WITH PUBLIC UTILITIES HANDBOOK REQUIREMENTS

8" FIRE SERVICE HOTBOX BACKFLOW W/ FDC MOUNTED
NOT TO SCALE



TYPICAL TRACER WIRE INSTALLATION DETAIL — W 3
NO SCALE

NOTES:
1. DRILL HOLE IN VALVE BOX TO INSERT TRACER WIRE,BRING UP TO INSIDE AND ROLL UP AT LEAST 6"-8" EXCESS
2. PLACE TRACER WIRE IN VALVE BOX AT 1,000" INTERVALS OR AS NOTED ON THE PLANS, TYPICAL.
3. DO NOT SPLICE WIRE WHEN BEGINNING A NEW SPOOL. INSTEAD INSTALL A VALVE BOX AND ATTACH EACH WIRE WITH A BRASS SCREW TO THE VALVE BOX.

NORTH CAROLINA PROFESSIONAL SEAL 045892 ENGINEER William P. Ahrnen 12-13-24

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Harnett County Schools

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CHECKED BY: WA

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NOTES AND DETAILS

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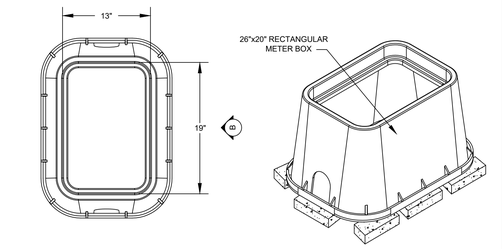
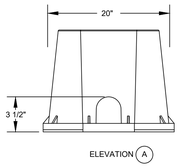
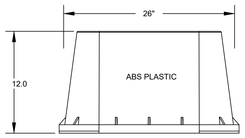
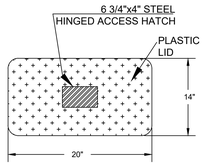
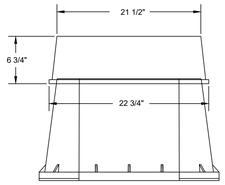




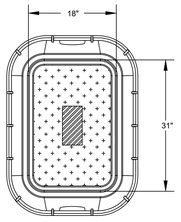


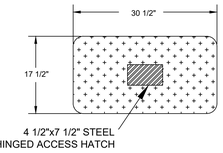


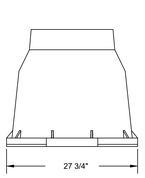


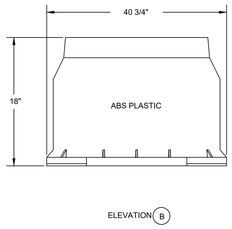
TYPICAL METER BOX DETAIL FOR 1" SERVICE — W 17

NO SCALE



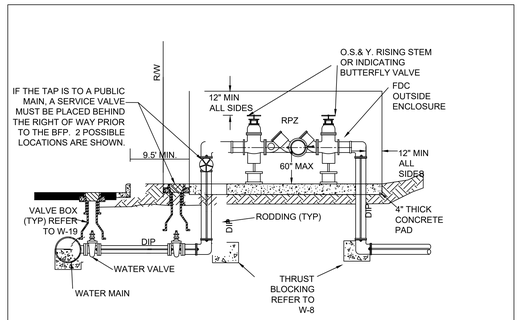






TYPICAL METER BOX DETAIL FOR 2" SERVICE — W 19

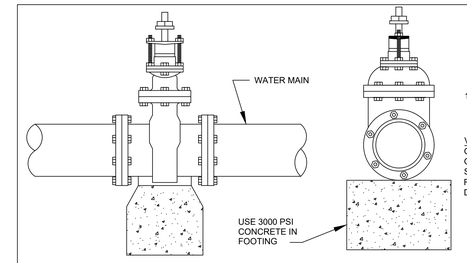
NO SCALE



1. ALL ABOVE GROUND ENCLOSURES MUST HAVE ADEQUATE DRAINAGE (TWICE THE DIAMETER OF THE SUPPLY PIPE) TO DAYLIGHT ABOVE GRADE.
2. REDUCED PRESSURE BACKFLOW PRESENTERS MAY BE LOCATED IN A BUILDING PROVIDED THERE ARE NO OTHER UNPROTECTED TAPS BETWEEN THE MAIN AND THE BUILDING. DRAINAGE IN A BUILDING MUST BE TWICE THE DIAMETER OF THE SUPPY PIPE.
3. ABOVE GROUND INSULATED VAULTS MUST BE ASSE 1060 APPROVED ABOVE GROUND ENCLOSURES. SEE CROSS CONNECTION MANUAL FOR ENCLOSURE FREEZE PROTECTION AND CERTIFICATION REQUIREMENTS.
4. RESIDENTIAL LAWN IRRIGATION R.P. ASSEMBLIES THAT ARE REMOVED TO PREVENT FREEZING IN THE WINTER MONTHS MUST BE CAPPED OFF. ALL ABOVE GROUND ASSEMBLIES, EXCEPT RESIDENTIAL LAWN IRRIGATION ASSEMBLIES, MUST BE PROTECTED FROM FROST.
6. FOR ENCLOSURE DIMENSIONS SEE DETAIL W-34.
7. STEEL RODS AND BOLTS SHALL BE 3/4" HOT DIPPED GALVANIZED.
8. ALL ASSEMBLIES MUST BE ON THE CURRENT APPROVAL LIST.

TYPICAL REDUCED PRESSURE ZONE BACKFLOW PREVENTER ASSEMBLY

NOT TO SCALE



1. "X"x"Y" MUST EQUAL THE SQUARE FOOTAGE OF THE BEARING AREA AS SHOWN IN THE TABLE BELOW.

BEARING SURFACE AREA FOR VALVE FOOTINGS

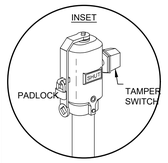
VALVE SIZE	6"	8"
QUICKSAND,POOR SOIL (1000 PSF)	7	12
GRAVEL,COURSE SAND (1600 PSF)	5	8
SOFT CLAY (2000 PSF)	4	6
FAIRLY DRY CLAY, CLEAN DRY SAND (4000 PSF)	2	3
DRY CLAY, COMPACT SAND (8000 PSF)	1	2

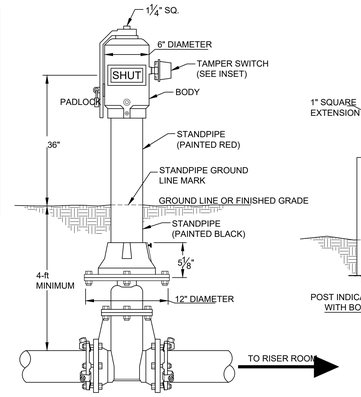
STANDARD VALVE FTG. FOR WATER MAINS

NO SCALE

FIELD ADJUSTMENT INSTRUCTIONS

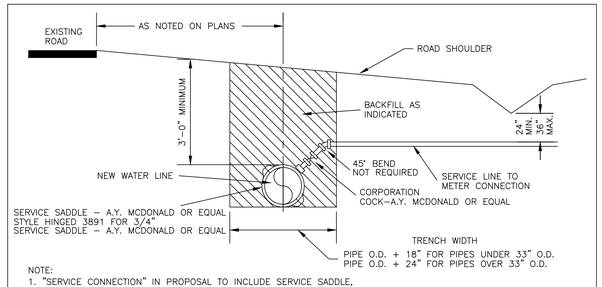
1. REMOVE THE BODY FROM THE TOP OF THE INDICATOR POST ASSEMBLY.
2. CUT THE REQUIRED LENGTH OFF THE BOTTOM OF THE STANDPIPE FOR THE GROUND LINE TO MATCH UP WITH STANDPIPE GROUND LINE MARK.
3. CUT THE 1" SQ. EXTENSION AT A DISTANCE OF 9" ABOVE THE TOP OF THE STANDPIPE.
4. SET THE "OPEN" AND "SHUT" TARGETS FOR THE APPROPRIATE VALVE SIZE.
5. RE-ATTACH THE BODY TO THE TOP OF THE INDICATOR POST ASSEMBLY.
6. ALL POST INDICATOR VALVES SHALL BE INSTALLED WITH AN ELECTRONIC UL LISTED TAMPER SWITCH.
7. THERE SHALL BE 36" OF UNOBSTRUCTED CLEARANCE AROUND THE PERIMETER OF ALL POST INDICATOR VALVES.
8. POST INDICATOR VALVE SHALL BE LOCATED AT A MINIMUM 5-ft FROM BUILDING.





STANDARD POST INDICATOR VALVE

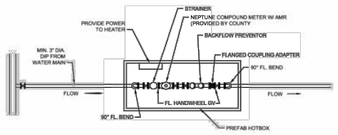
NO SCALE



NOTE:
1. "SERVICE CONNECTION" IN PROPOSAL TO INCLUDE SERVICE SADDLE, 45° BEND, CORPORATION COCK AND ALL LABOR INVOLVED IN MAKING A COMPLETE SERVICE CONNECTION.
2. SERVICE PIPING TO BE 3/4" SDR-9 PE TUBING
3. ALL BRASS FITTINGS SHALL BE COMPRESSION TYPE

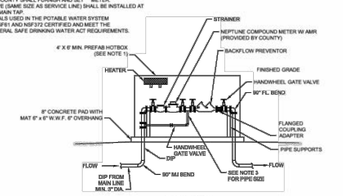
TYPICAL WATER SERVICE CONNECTION USING TAPPING SADDLE DETAIL — W 13

NO SCALE



NOTES:
1. PREFABRICATED HOTBOX SHALL HAVE MINIMUM INSIDE DIMENSIONS OF 3' W x 6' L x 4' D. DIMENSIONS OF HOTBOX SHALL INCREASE WITH LARGER METER SIZES. CONTACT COUNTY FOR EXACT HOTBOX DIMENSIONS WITH COUNTY PRIOR TO ORDERING VAULT.
2. METER, STRAINER, BFP, AND VALVES MAY BE INSTALLED ABOVE GROUND IN HOTBOX ON 4" CONCRETE PAD. PAD SHALL BE 6" WIDER THAN HOTBOX ON ALL SIDES AND REINFORCED WITH 1 MAT OF 6x6 W.W.F. HOTBOX SHALL BE SIZED TO HAVE MIN. 9" CLEARANCE ON ALL SIDES OF METER.
3. BYPASS PIPING SHALL BE 2" FOR 3" METERS AND 3" FOR 4" METERS.
4. JOHNSTON COUNTY SHALL FURNISH AND SET METER.
5. ALL PIPING (EXCEPT SIZE AS SERVICE LINE) SHALL BE INSTALLED AT THE WATER MAIN TAP.
6. ALL MATERIALS USED IN THE POTABLE WATER SYSTEM MUST BE NSF61 AND NSF372 CERTIFIED AND MEET THE LATEST FEDERAL SAFE DRINKING WATER ACT REQUIREMENTS.

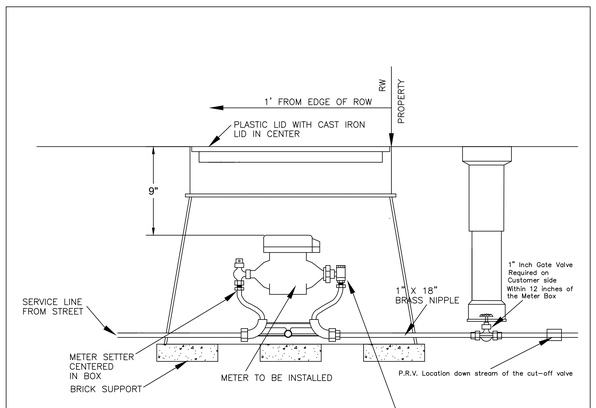
PLAN



SECTION

3" & ABOVE WATER SERVICE W/ BFP-ABOVE GRADE

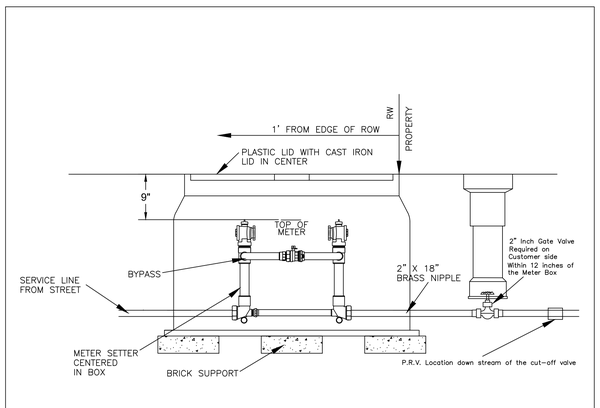
NOT TO SCALE



1. METER AND PRIVATE SERVICE LINE NOT IN CONTRACT UNLESS SPECIFIED
2. INCLUDE STONE IN PRICE OF METER BOX.
3. METER SETTER SIZE AS NOTED ON PLANS.
4. ALL BRASS FITTINGS SHALL BE COMPRESSION TYPE.

TYPICAL 1" METER SETTER INSTALLATION DETAIL — W 16

NO SCALE



1. METER AND PRIVATE SERVICE LINE NOT IN CONTRACT UNLESS SPECIFIED
2. INCLUDE STONE IN PRICE OF METER BOX.
3. METER SETTER SIZE AS NOTED ON PLANS.
4. ALL BRASS FITTINGS SHALL BE COMPRESSION TYPE.

TYPICAL 2" METER SETTER INSTALLATION DETAIL — W 18

NO SCALE

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ENERGY STAR PARTNER

No.	Date	Description
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2	12-13-24	CD REVISIONS
3	12-06-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24

PROJECT #: 63089
DRAWN BY: JG
CHECKED BY: WA

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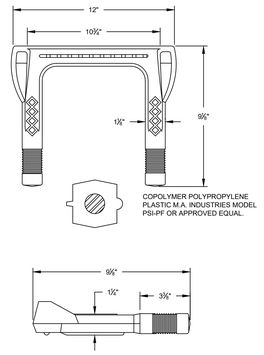
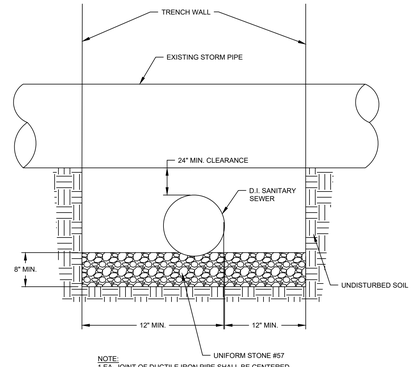


TYPICAL POLYPROPYLENE PLASTIC STEP DETAIL — S 27

NO SCALE

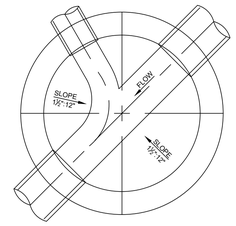


NOTE:
1 EA. JOINT OF DUCTILE IRON PIPE SHALL BE CENTERED UNDER STORM PIPE FOR ALL CROSSINGS.

TYPICAL STORM SEWER CROSSING FOR SANITARY SEWER DETAIL — S 31

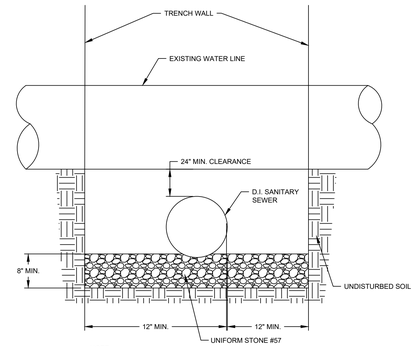
NO SCALE

NOTE:
1. THE FLOW CHANNEL THROUGH MANHOLES SHOULD BE MADE TO CONFORM IN SHAPE AND SLOPE TO THE SEWER MAIN.
2. CHANGE IN DIRECTION OF THE CHANNEL SHALL NOT BE EXCEED 90 DEGREES.
3. SEE DETAIL S-24 FOR TYPICAL MANHOLE STRUCTURE.



TYPICAL MANHOLE INVERT DETAIL — S 28

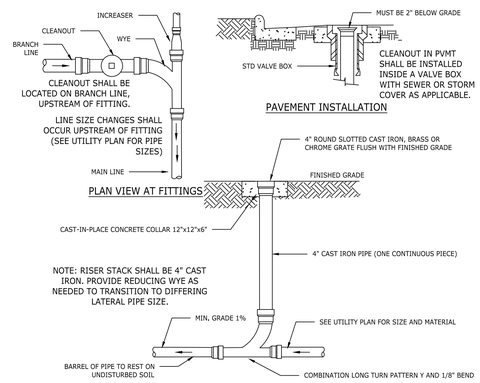
NO SCALE



NOTE:
1 EA. JOINT OF DUCTILE IRON PIPE SHALL BE CENTERED UNDER WATER LINE FOR ALL CROSSINGS.

TYPICAL WATER LINE CROSSING FOR SANITARY SEWER DETAIL — S 32

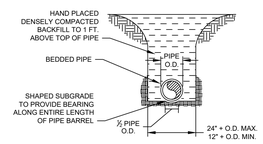
NO SCALE



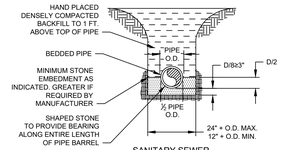
NOTES:
-THE FULL LENGTH OF THE SERVICE DITCH BE COMPACTED IN 6" LAYERS WITH MECHANICAL TAMP.
-CONCRETE COLLAR SHALL BE CAST-IN-PLACE, PRE-CAST CONCRETE DONUTS NOT ALLOWED.

STANDARD CLEANOUT

NO SCALE



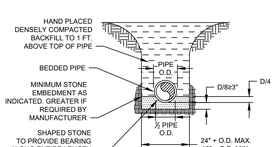
SANITARY SEWER
(DUCTILE IRON ONLY)
(0'-16' DEPTH)
PIPE LAYING
CONDITION "C"



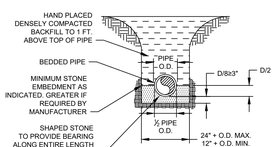
SANITARY SEWER
(DUCTILE IRON ONLY)
(>16' DEPTH)
PIPE LAYING
CONDITION "D"

TYPICAL PIPE LAYING CONDITION DETAIL — S 17

NO SCALE



SANITARY SEWER
(0'-8' DEPTH)
PIPE LAYING
CONDITION "A"



SANITARY SEWER
(<8'-16' DEPTH)
PIPE LAYING
CONDITION "B"

TYPICAL PIPE LAYING CONDITION DETAIL — S 16

NO SCALE

[redacted]

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045892 William P. Ahrnsen 12-13-24

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DRAWN BY: JG

CHECKED BY: WA

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2022 HRW REQUIRED UTILITY NOTES
(Revision 10- April 19, 2022)

The following utility notes should be added to the coversheet of utility plans for projects located in Harnett County:

WATER

A. The Fire Marshal's Office shall approve all hydrant types and locations in new subdivisions. However, Harnett Regional Water (HRW) prefers the contractors to install one of the following fire hydrants:

1. **Mueller - Super Centurion 250 A-423 model with a 5¼" main valve opening three way (two hose nozzles and one pumper nozzle);**
2. **American Darling - Mark B-84-B model with a 5¼" main valve opening three way (two hose nozzles and one pumper nozzle);**
3. **Waterous - Pacer B-67-250 model with a 5¼" main valve opening three way (two hose nozzles and one pumper nozzle) or approved equal for standardization.**

***All fire hydrants listed above must have "American National Fire Hose Connection Screw Threads" NST/NH hose threads.**

B. Fire hydrants are installed at certain elevations. Any grade change near any fire hydrant, which impedes its operation, shall become the responsibility of the Utility Contractor for correction. Corrections will be monitored by the HRW Utility Construction Inspector and the Harnett County Fire Marshal.

C. The Professional Engineer (PE) shall obtain and provide the NCDEQ "Authorization to Construct" permit to the Utility Contractor before the construction of the water line shall begin. The Utility Contractor must post a copy of the NCDEQ "Authorization to Construct" permit issued by the North Carolina Department of Environmental Quality (NCDEQ) on site prior to the start of construction. The permit must be maintained on site throughout the entire construction process of the proposed water lines that will serve this project.

D. The Utility Contractor shall notify Harnett Regional Water (HRW) and the Professional Engineer (PE) at least two days prior to construction commencing. The Utility Contractor must schedule a pre-construction conference with Mr. Chad Everette, HRW Utility Construction Inspector at least two (2) days before construction will begin and the Utility Contractor must coordinate with HRW for regular inspection visitations and acceptance of the water system(s). Construction work shall be performed only during the normal working hours of HRW which is 8:00 am – 5:00 pm Monday through Friday. Holiday and weekend work is not permitted by HRW.

E. The Professional Engineer (PE) shall provide HRW and the Utility Contractor with a set of NCDEQ approved plans marked "Released for Construction" at least two days prior to construction commencing. The Registered Land Surveyor (RLS) should stake out all lot corners and the grade stakes for the proposed finish grade for each street before the Utility Contractor begins construction or after the installation of the manholes, sanitary sewer gravity line(s), sewer lift stations and/or sanitary sewer force main(s). The grade stakes should be set with a consistent offset from the street centerline so as not to interfere with the street grading and utility construction.

F. The Utility Contractor shall provide the HRW Utility Construction Inspector with material submittals and shop drawings for all project materials prior to the construction of any water line extension(s), associated water services in Harnett County. The materials to be used on the project must meet the established specifications of HRW and be approved by the Engineer of Record prior to construction. All substandard materials or materials not approved for use in Harnett County found on the project site must be removed immediately when notified by the HRW Utility Construction Inspector.

G. The water main(s), fire hydrants, service lines, meter setters and all associated appurtenances shall be constructed in strict in accordance with the standard specifications of the Harnett Regional Water (HRW). The Utility Contractor shall be responsible to locate the newly installed water main(s), water service lines and all associated meter setters and meter boxes for other utility companies and their contractors until the new water main(s) have been approved by the North Carolina Department of Environmental Quality, Division of Environmental Health, Public Water Supply Section (NCDEQ, DEH, PWS) and accepted by HRW.

H. Prior to acceptance, all services will be inspected to ensure that they are installed at the proper depth. All meter boxes must be flush with the ground level at finish grade and the meter setters must be a minimum of 8" below the meter box lid. Meter setters shall be centered in the meter box and supported by brick, block or stone.

I. The Utility Contractor shall provide the Professional Engineer (PE) and HRW Utility Construction Inspector with a set of red line drawings identifying the complete water system installed for each project. The red line drawings should identify the materials, pipe sizes and approximate depths of the water lines as well as the gate valves, fire hydrants, meter setters, blow off assemblies and all associated appurtenances for all water line(s) constructed in Harnett County. The red line drawings should clearly identify any deviations from the NCDEQ approved plans. All change orders must be approved by HRW and the Professional Engineer (PE) in writing and properly documented in the red line field drawings.

J. Potable water mains crossing other utilities and non-potable water lines (sanitary sewer, storm sewer, RCP, etc.) shall be laid to provide a minimum vertical distance of twenty-four (24") inches between the potable water main and all other utilities. NCDOT requires the new water mains to be installed under the storm water lines. The potable water main shall be installed with twenty-four (24") inches of vertical separation and with ductile iron pipe when designed to be placed under a non-potable water line such as sanitary sewer or storm sewer lines. If these separations cannot be maintained then the water main shall be installed with ductile iron pipe. Both the potable water main and the non-potable water line must be cast iron or ductile iron pipe (DIP) if the state minimum separations cannot be maintained. The ductile iron pipe must be laid so the mechanical joints are at least (10') feet from the point where the potable water main crosses the non-potable water line.

K. Potable water mains installed parallel to non-potable water lines (sanitary sewer, storm sewer, RCP, etc.) shall be laid to provide a minimum horizontal distance of ten (10') feet between the potable water main and sanitary sewer mains, sewer laterals and services. The horizontal separation between the potable water main and any other utility or storm sewer shall not be less than five (5') feet. The potable water main must be ductile iron pipe if this horizontal separation of ten (10') feet cannot be maintained. The ductile iron pipe shall extend at least ten (10') feet beyond the point where the minimum required horizontal separation of ten (10') feet can be re-established.

L. Meter setters shall be installed in pairs on every other lot line where possible to leave adequate space for other utilities to be installed at a later time. The meter setters shall be installed at least one (1') foot inside the right-of-way and at least three (3') to five (5') feet from the property line between the lots.

M. HRW requires that meter boxes for ¾" services shall be 12" wide x 17" long ABS plastic boxes at least 18" in height with cast iron lids/covers. Meter boxes for 1" services shall be 17" wide x 21" long ABS plastic boxes at least 18" in height with plastic lids and cast iron flip covers in the center of the lids. Meter boxes for 2" services shall be 20" wide x 32" long ABS plastic boxes at least 20" in height with plastic lids and cast iron flip covers in the center of the lids.

N. Master meters must be installed in concrete vaults sized for the meter assembly and associated appurtenances so as to provide at least eighteen (18") inches of clearance between the bottom of the concrete vault and the bottom of the meter setter. The master meter must be provided test ports if the meter is not equipped with test ports from the manufacturer in accordance with the HRW established standard specifications and details. Ductile iron pipe must be used for the master meter vault piping and valve vault piping. The Utility Contractor must provide shop drawings for the meter vaults to HRW prior to ordering the concrete vaults.

O. The Utility Contractor will install polyethylene SDR-9 water service lines that cross under the pavement inside a schedule 40 PVC conduit to allow for removal and replacement in the future. Two (2) independent ¾" water service lines may be installed inside one (1) – two (2") inch schedule 40 PVC conduit or two (2) independent 1" water service lines may be installed inside one (1) – three (3") inch schedule 40 PVC conduit, but each water service shall be tapped directly to the water main. Split services are not allowed by HRW. If sidewalks are proposed, the conduit must extend past the sidewalk.

P. The water main(s), fire hydrants, gate valves, service lines, meter setters and associated appurtenances must be rated for 200 psi and hydrostatically pressure tested to 200 psi. The hydrostatic pressure test(s) must be witnessed by the HRW Utility Construction Inspector. The Utility Contractor must notify HRW when they are ready to begin filling in lines and coordinate with Harnett Regional Water to witness all pressure testing.

Q. The Utility Contractor shall complete the pneumatic pressure test using compressed air or other inert gas on the stainless steel tapping sleeve(s) prior to making the tap on the existing water main. This pneumatic pressure test must be witnessed by the HRW Utility Construction Inspector. The Utility Contractor shall use Romac brand stainless steel tapping sleeve(s) or approved equal for all taps made in Harnett County. All new water line extensions must begin with a resilient wedge type gate valve sized equal to the diameter of the new water line extension in order to provide a means of isolation between Harnett Regional Water's existing water mains and the new water line extensions under construction.

R. All water mains will be constructed with SDR-21 PVC Pipe or Class 50 Ductile Iron Pipe rated for at least 200 psi or greater. All pipes must be protected during loading, transport, unloading, staging, and installation. PVC pipe must be protected from extended exposure to sunlight prior to installation.

S. All water mains will be flushed and disinfected in strict accordance with the standard specifications of the Harnett Regional Water. All water samples collected for bacteria testing will be collected by the HRW Utility Construction Inspector and tested in the HRW Laboratory.

T. All fittings larger than two (2") inches diameter shall be ductile iron. HRW requires that all mechanical joints be assembled with grip rings as "Megalug" fittings are not approved by Harnett Regional Water for pipe sizes smaller than twelve inches (12") diameter. PVC pipe used for water mains shall be connected by slip joint or mechanical joint with grip rings. Glued pipe joints are not allowed on PVC pipe used for water mains in Harnett County.

U. HRW requires that the Utility Contractor install tracer wire in the trench with all water lines. The tracer wire shall be 12 ga. insulated, solid copper conductor and it shall be terminated at the top of the valve boxes or manholes. No spliced wire connections shall be made underground on tracer wire installed in Harnett County. The tracer wire may be secured with duct tape to the top of the pipe before backfilling.

V. The Utility Contractor will provide Professional Engineer (PE) and the HRW Utility Construction Inspector with a set of red line field drawings to identify the installed locations of the water line(s) and all associated services. All change orders must be pre-approved by HRW and the Professional Engineer (PE) in writing and properly documented in the red line field drawings.

W. The Utility Contractor shall spot dig to expose each utility pipe or line which may conflict with construction of proposed water line extensions well in advance to verify locations of the existing utilities. The Utility Contractor shall coordinate with the utility owner and be responsible for temporary relocation and/or securing existing utility poles, pipes, wires, cables, signs and/or utilities including services in accordance with the utility owner requirements during water line installation, grading and street construction.

X. Prior to the commencement of any work within established utility easements or NCDOT right-of-ways the Utility Contractor is required to have a signed NCDOT encroachment agreement posted on site and notify all concerned utility companies in accordance with G.S. 87-102. The Utility Contractor must call the NC One Call Center at 811 or (800) 632-4949 to verify the location of existing utilities prior to the beginning of construction. Existing utilities shown in these plans are taken from maps furnished by various utility companies and have not been physically located or verified by the P.E. (i.e. TELEPHONE, CABLE, WATER, SEWER, ELECTRICAL POWER, FIBER OPTIC, NATURAL GAS, ETC.). The Utility Contractor will be responsible to repair any and all damages to the satisfaction of the related utility company.

Y. The Utility Contractor shall provide HRW with at least one (1) fire hydrant wrench and one (1) break-away flange kit for every subdivision with fire hydrants developed in Harnett County. These items must be provided to HRW before the final inspection will be scheduled by the HRW Utility Construction Inspector. In addition, the Utility Contractor shall install a 4" x 4" concrete valve marker at the edge of the right-of-way to identify the location of each gate valve installed in the new water system with the exception of the fire hydrant isolation valves. The contractor shall measure the distance from the center of the concrete marker to the center of the valve box. This distance (in linear feet) shall be stamped on the brass plate located on the top of the concrete valve marker. In lieu of installing the concrete valve markers, the Utility Contractor may provide at least two measurements from two independent permanent above ground structures to the Professional Engineer (PE) in the red line drawings to identify the valve locations. The Professional Engineer (PE) must include these measurements in the As-Built Record Drawings submitted to HRW.

Z. The Utility Contractor will be responsible for any and all repairs due to leakage damage from poor workmanship during the one (1) year warranty period once the water system improvements have been accepted by Harnett Regional Water. Harnett Regional Water will provide maintenance and repairs when requested and bill the Developer and/or Utility Contractor if necessary due to lack of response within 48 hours of notification of warranty work. The Utility Contractor will be responsible for any and all repairs due to damages resulting from failure to locate the new water lines and associated appurtenances for other utilities and their contractors until the water lines have been approved by NCDEQ and accepted by HRW. The final inspection of water system improvements cannot be scheduled with HRW until the streets have been paved; the rights-of-way and utility easements have been seeded and stabilized with an adequate stand of grass in place to prevent erosion issues on site.

AA The Engineer of Record is responsible to ensure that construction is, at all times, in compliance with accepted sanitary engineering practices and approved plans and specifications. No field changes to the approved plans are allowed without prior written approval by HRW. A copy of each engineer's field report is to be submitted to HRW as each such inspection is made on system improvements or testing is performed by the contractor. Water and sewer infrastructure must pass all tests required by HRW specifications and those of all applicable regulatory agencies. These tests include, but are not limited to: air test, vacuum test, mandrel test, visual test, pressure test, bacteriological test, etc. A HRW Inspector must be present during testing and all test results shall be submitted to HRW. All tests must be satisfied before the final inspection will be scheduled with the HRW Inspector. The Engineer of Record must request in writing to schedule the final inspection once all construction is complete. The Developer's Engineer of Record and the HRW Utility Construction Inspector shall prepare a written punch list of any defects or deficiencies noted during the final inspection, should any exist. Upon completion of the punch list, the Developer's Engineer of Record will schedule another inspection. In the event the number of inspections performed by the HRW exceeds two, additional fees may be assessed to the Developer.

SANITARY SEWER

A. The Professional Engineer (PE) shall obtain and supply a copy of the sewer permit for the construction and operation of the wastewater collection system to the Utility Contractor before the construction of the sanitary sewer line, sewer lift station and associated force main shall begin. The Utility Contractor must post a copy of the sewer permit issued by the North Carolina Department of Environmental Quality (NCDEQ) on site prior to the start of construction. The permit must be maintained on site during the construction of the sewer system improvements.

B. The Utility Contractor shall notify Harnett Regional Water (HRW) and the Professional Engineer (PE) at least two days prior to construction commencing. The Utility Contractor must schedule a pre-construction conference with Mr. Chad Everette, HRW Utility Construction Inspector at least two (2) days before construction will begin and the Utility Contractor must coordinate with HRW for regular inspection visitations and acceptance of the wastewater system(s). Construction work shall be performed only during the normal working hours of HRW which is 8:00 am – 5:00 pm Monday through Friday. Holiday and weekend work is not permitted by HRW.

C. The Professional Engineer (PE) shall provide HRW with a set of NCDEQ approved plans marked "Released for Construction" at least two days prior to construction commencing. HRW will stamp the approved plans as "Released for Construction" and provide copies to the utility contractor. The Registered Land Surveyor (RLS) shall stake out all lot corners and establish grade stakes for the proposed finish grade for each street and sewer line before the Utility Contractor begins construction or installation of the manholes, sanitary sewer gravity line(s), sewer lift stations and/or sanitary sewer force main(s). The grade stakes should be set with a consistent offset from the street centerline so as not to interfere with the street grading or utility construction.

D. The Utility Contractor shall provide the HRW Utility Construction Inspector with material submittals and shop drawings for all project materials prior to the construction of any gravity sewer line(s), manhole(s), sewer lift station(s) and associated force main(s) in Harnett County. The materials to be used on the project must meet the established specifications of HRW and be approved by the Engineer of Record prior to construction. All substandard materials or materials not approved for use in Harnett County found on the project site must be removed immediately when notified by the HRW Utility Construction Inspector.

E. The sanitary sewer lateral connections should be installed 90° (perpendicular) to the sanitary sewer gravity lines with schedule 40 PVC pipe. HRW requires the Utility Contractor to provide the Professional Engineer (PE) with accurate measurements for locating sanitary sewer service lateral and associated each sanitary sewer clean-out. These measurements should be taken from the nearest downstream manhole up along the sanitary sewer main to the in-line wye fitting (or tapping saddle) and then another measurement from the in-line wye fitting (or tapping saddle) to the 4" x 4" long sweep combination wye fitting at the bottom of the sewer clean-out stack. These field measurements must be provided to the Professional Engineer (PE) in the red line drawings from the Utility Contractor for proper documentation in the As-Built Record Drawings submitted to HRW.

F. The Utility Contractor shall be responsible to locate the newly installed sanitary sewer gravity line(s), sanitary sewer force main(s), sanitary sewer service lateral(s) and all associated sewer clean-out(s) in the proposed sanitary sewer system for other utility companies and their contractors until the new sanitary sewer line(s) and associated appurtenances have been approved by the North Carolina Department of Environmental Quality (NCDEQ) and accepted by HRW. All new sanitary sewer lines must have at least three (3 ft.) feet of cover and extend under all existing water main and storm water lines with a least 24" of vertical clearance below the bottom of the existing water main and storm water lines. ALL ductile iron sewer piping must be 401 epoxy coated or approved equal.

G. The sanitary sewer gravity line(s), manhole(s), sanitary sewer service lateral(s) and associated clean-out(s) shall be constructed in strict accordance with the standard specifications of the Harnett Regional Water. The sanitary sewer gravity line(s) must pneumatically pressure tested with compressed air at 5 psi and the sanitary sewer force main(s) must hydrostatically pressure tested with water at 200 psi. Sanitary sewer manholes must be vacuum tested to 10 inches of mercury and cannot drop below 9 inches in 60 seconds for 4 ft. diameter manholes, 75 seconds for 5 ft. diameter manholes. The test must be in accordance with the following standards: For ductile iron pipelines test in accordance with the applicable requirements of ASTM C924. For PVC pipelines test in accordance with ASTM F1417-98 and Uni-B-6. Vacuum testing shall be performed in accordance with ASTM C1244. The HRW Utility Construction Inspector and Engineer must witness all tests mentioned above.

H. Prior to acceptance, all sewer service laterals will be inspected to ensure that they are installed at the proper depth. All sewer clean-outs must be installed so the 4" x 4" long sweep combination wye is at least three (3') feet but no more than four (4') feet below the finish grade unless otherwise approved in writing by HRW. The sewer cleanouts shall have a four (4") schedule 40 PVC pipe stubbed up from both ends of the 4" x 4" long sweep combination wye to be at least two (2') feet above the finish grade and cover each end with a four (4") inch temporary cap to keep out dirt, sand, rocks, water and construction debris. The vertical stack on each clean-out must be provided with a concrete donut for protection.

I. Once the sanitary sewer gravity line(s) have been installed, pneumatically pressure tested and in place for at least 30 days, the Utility Contractor must contact the HRW Utility Construction Inspector to witness the mandrel test on each PVC sanitary sewer gravity line. The Utility Contractor will notify HRW to schedule the mandrel testing. The mandrel and proving ring must be supplied by the Utility Contractor. Closed circuit video camera inspections (at the Utility Contractor's expense) may be required by the HRW Utility Construction Inspector if the mandrel and mirror tamping testing cannot be completed with satisfactory results. The sanitary sewer lines should be flushed clean using a sewer ball of the proper diameter before any mandrel testing can be performed. The Utility Contractor is responsible to remove all dirt, sand, silt, gravel, mud and debris from the newly constructed sewer lines exercising care to keep the Harnett Regional Water's existing sanitary sewer systems clean. Sanitary sewer force main(s) shall be pressure tested to 200 psi for at least 2 hours like water lines.

J. The Utility Contractor shall be responsible to locate the newly installed sanitary sewer system(s) for other utility companies and their contractors until the new sanitary sewer system(s) have been approved by the North Carolina Department of Environmental Quality (NCDEQ) and accepted by HRW.

K. HRW requires that the Utility Contractor install tracer wire in the trench with all sanitary sewer force mains. The tracer wire shall be 12 ga. insulated, solid copper conductor and it shall be terminated at the top of the valve boxes or manholes. No spliced wire connections shall be made underground on tracer wire installed in Harnett County. The tracer wire may be secured with duct tape to the top of the pipe before backfilling. The tracer wire is not required for the gravity sewer line(s) between manholes.

L. The Utility Contractor shall provide the Professional Engineer (PE) and HRW Utility Construction Inspector with a set of red line drawings identifying the complete sewer system installed for each project. The red line drawings should identify the materials, pipe sizes and approximate depths of the sewer lines as well as the installed locations of the manhole(s), sanitary sewer gravity line(s), sanitary sewer service laterals, clean-outs, sewer lift station(s) and associated force main(s). The red line drawings should clearly identify any deviations from the NCDEQ approved plans. All change orders must be approved by HRW and the Professional Engineer (PE) in writing and properly documented in the red line field drawings.

M. Prior to the commencement of any work within established utility easements or NCDOT right-of-ways the Utility Contractor is required to notify all concerned utility companies in accordance with G.S. 87-102. The Utility Contractor must call the NC One Call Center at 811 or (800) 632-4949 to verify the location of existing utilities prior to the beginning of construction. Existing utilities shown in these plans are taken from maps furnished by various utility companies and have not been physically located by the P.E. (i.e. TELEPHONE, CABLE, WATER, SEWER, ELECTRICAL POWER, FIBER OPTIC, NATURAL GAS, ETC.).

N. The Utility Contractor shall spot dig to expose each existing utility pipe or line which may conflict with construction of proposed sanitary sewer line extensions well in advance to verify locations of the existing utilities. The Utility Contractor shall provide both horizontal and vertical clearances to the Professional Engineer (PE) to allow the PE to adjust the sanitary sewer line design in order to avoid conflicts with existing underground utilities. The Utility Contractor shall coordinate with the utility owner and be responsible for temporary relocation of existing utilities and/or securing existing utility poles, pipes, wires, cables, signs and/or utilities including services in accordance with the utility owner's requirements during sanitary sewer line installation, grading and street construction.

O. When making a tap on an existing sewer force main, the Utility Contractor must have a permit from the North Carolina Department of Environmental Quality (NCDEQ) prior to begin the tap work. The Utility Contractor shall conduct a pneumatic pressure test using compressed air or other inert gas on the stainless steel tapping sleeve and gate valve prior to making the tap on an existing sanitary sewer force main. This pneumatic pressure test must be witnessed by the HRW Utility Construction Inspector. The Utility Contractor shall use Romac brand stainless steel tapping sleeve(s) or approved equal for all taps made on sanitary sewer force mains in Harnett County. The Utility Contractor shall use Romac brand Style "CB" sewer saddles with stainless steel bands or approved equal for all taps made on existing sanitary sewer force mains in Harnett County.

P. The Utility Contractor shall provide a grease trap for each sanitary sewer service lateral that will be connected to a restaurant, food processing facility and any other commercial or industrial facility as required by the Harnett County Fat, Oil & Grease Ordinance. The grease trap must be rated for a minimum capacity of at least 1,000 gallons unless otherwise approved in writing by the HRW Pre-Treatment Coordinator. Garbage disposals should not be installed in homes and businesses that discharge wastewater to the Harnett Regional Water's Sanitary Sewer System as they are not approved by HRW.

Q. Each sewer lift station must be provided with three phase power (at least 480 volts) and constructed to meet the minimum requirements of the latest version of the National Electrical Code (NEC) and Harnett Regional Water standard specifications and details. If three phase power is not available from the power company other arrangements must be approved by HRW Engineering prior to the start of construction.

R. Where a new sanitary sewer force main is connected to an existing manhole in the Harnett Regional Water sewer collections system, the Utility Contractor must provide a protective coating (epoxy) for the interior surfaces of the manhole to protect it against corrosion, erosion and deterioration from the release of sewer gases such as methane and hydrogen sulfide.

S. The sewer lift station design and associated equipment must meet or exceed the MINIMUM REQUIREMENTS FOR HARNETT COUNTY SEWER LIFT STATIONS. Each sanitary sewer lift station as possible once the new sanitary sewer lines have been inspected, pressure tested, mandrel tested, approved by the North Carolina Department of Environmental Quality (NCDEQ) and accepted by HRW to allow the sewer to flow as designed in Harnett Regional Water's existing sanitary sewer lines or when so ordered by the HRW Collections Supervisor to limit interruptions to the normal flow of the sanitary sewer collection system(s). The Utility Contractor must provide the pumps hoses and necessary connectors for a temporary pump around setup if required by the HRW Collections Supervisor. Mr. Randolph Clegg, HRW Collections Supervisor may be contacted between 8:00 am and 5:00 pm Monday through Friday at (910) 893-7575 extension 3241.

Y. The Utility Contractor will be responsible for any and all repairs due to leakage or damage resulting from poor workmanship during the one (1) year warranty period once the sewer system improvements have been approved by the North Carolina Department of Environmental Quality (NCDEQ) and accepted by HRW. The Utility Contractor will be responsible for any and all repairs due to damages resulting from failure to locate the new sanitary sewer lines and associated appurtenances for other utilities and their contractors until the sanitary sewer lines have been approved by NCDEQ and accepted by HRW. HRW will provide maintenance and warranty repairs if necessary due to lack of response within 48 hours of notification of warranty work. HRW will invoice the Developer and/or Utility Contractor for materials and labor in such cases.

Z. In developments and projects that require utility easements to be established for future HRW right-of-way, the Registered Land Surveyor (RLS) must provide the HRW Right-of-Way Agent with an official copy of the recorded plat and legal description of the said easement as recorded with the Harnett County Register of Deeds. The recorded documents must be provided to the HRW Right-of-Way Agent before the utility improvements within the said easement can be placed into operation. Any and all easements that must be obtained from adjoining property owners must be provided to HRW by the Developer at no cost to Harnett County. The final inspection of all sanitary sewer system improvements cannot be scheduled with HRW until the streets have been paved; the rights-of-way and utility easements have been seeded and stabilized with an adequate stand of grass in place to prevent erosion issues on site.

AA. The Engineer of Record is responsible to ensure that construction is, at all times, in compliance with accepted sanitary engineering practices and approved plans and specifications. No field changes to the approved plans are allowed without prior written approval by HRW. A copy of each engineer's field report is to be submitted to HRW as each such inspection is made on system improvements or testing is performed by the contractor. Water and sewer infrastructure must pass all tests required by HRW specifications and those of all applicable regulatory agencies. These tests include, but are not limited to: air test, vacuum test, mandrel test, visual test, pressure test, bacteriological test, etc. A HRW Inspector must be present during testing and all test results shall be submitted to HRW. All tests must be satisfied before the final inspection will be scheduled with the HRW Inspector. The Engineer of Record must request in writing to schedule the final inspection once all construction is complete. The Developer's Engineer of Record and the HRW Utility Construction Inspector shall prepare a written punch list of any defects or deficiencies noted during the final inspection, should any exist. Upon completion of the punch list, the Developer's Engineer of Record will schedule another inspection. In the event the number of inspections performed by the HRW exceeds two, additional fees may be assessed to the Developer.

CONSTRUCTION DOCUMENTS

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.
VIRGINIA | NORTH CAROLINA
THIS DRAWING PREPARED AT THE RALEIGH OFFICE
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Site Development | Residential | Infrastructure | Technology
X2009-222

Harnett County Schools
FLATWOODS MIDDLE SCHOOL
3544 US 401 S
Lillington, NC 27546

ENERGY STAR PARTNER

No.	Date	Description
1	12-06-24	NCDOI CD
2	12-13-24	CD REVISIONS
3	12-16-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24
PROJECT #: 63089
DRAWN BY: JG
CHECKED BY: WA

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NOTES AND DETAILS

C5.6

ADA AND LEGAL DISCLAIMER: This document is intended to comply with the requirements of the Americans with Disabilities Act (ADA). However architects and engineers are not licensed to interpret laws or give advice concerning laws. The owner should have this document reviewed by his attorney to determine if it complies with ADA and other laws.

TEMPORARY SEEDING SPECIFICATIONS

COMPLETE GRADING BEFORE PREPARING SEEDBEDS, AND INSTALL ALL NECESSARY EROSION CONTROL PRACTICES SUCH AS, DIKES, WATERWAYS, AND BASINS. MINIMIZE STEEP SLOPES BECAUSE THEY MAKE SEEDBED PREPARATION DIFFICULT AND INCREASE THE EROSION HAZARD. IF SOILS BECOME COMPACTED DURING GRADING, LOOSEN THEM TO A DEPTH OF 6-8 INCHES USING A RIPPER, HARROW, OR CHISEL PLOW.

SEEDBED PREPARATIONS

GOOD SEEDBED PREPARATION IS ESSENTIAL TO SUCCESSFUL PLANT ESTABLISHMENT. A GOOD SEEDBED IS WELL-PULVERIZED, LOOSE, AND UNIFORM. WHERE HYDROSEEDING METHODS ARE USED, THE SURFACE MAY BE LEFT WITH A MORE IRREGULAR SURFACE OF LARGE CLODS AND STONES.

- **LIMING -** APPLY LIME ACCORDING TO SOIL TEST RECOMMENDATIONS. IF THE PH (ACIDITY) OF THE SOIL IS NOT KNOWN, AN APPLICATION OF GROUND AGRICULTURAL LIMESTONE AT THE RATE OF 1 TO 1 1/2 TONS/ACRE ON COARSE-TEXTURED SOILS AND 2-3 TONS/ACRE ON FINE-TEXTURED SOILS IS USUALLY SUFFICIENT. APPLY LIMESTONE UNIFORMLY AND INCORPORATE INTO THE TOP 4-6 INCHES OF SOIL. SOILS WITH A PH OF 6 OR HIGHER NEED NOT BE LIMED.
- **FERTILIZER -** BASE APPLICATION RATES ON SOIL TESTS. WHEN THESE ARE NOT POSSIBLE, APPLY A 10-10-10 GRADE FERTILIZER AT 700-1,00 LB/ACRE. BOTH FERTILIZER AND LIME SHOULD BE INCORPORATED INTO THE TOP 4-6 INCHES OF SOIL. IF A HYDRAULIC SEEDER IS USED, DO NOT MIX SEED AND FERTILIZER MORE THAN 30 MINUTES BEFORE APPLICATION.
- **SURFACE ROUGHENING -** IF RECENT TILLAGE OPERATIONS HAVE RESULTED IN A LOOSE SURFACE, ADDITIONAL ROUGHENING MAY NOT BE REQUIRED, EXCEPT TO BREAK UP LARGE CLODS. IF RAINFALL CAUSES THE SURFACE TO BECOME SEALED OR CRUSTED, LOOSEN IT JUST PRIOR TO SEEDING BY DISKING, RAKING, HARROWING, OR OTHER SUITABLE METHODS. GROOVE OR FURROW SLOPES STEEPER THAN 3:1 ON THE CONTOUR BEFORE SEEDING (REFER TO THE NCDEQ EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, PRACTICE 6.03, SURFACE ROUGHENING).

PLANT SELECTION

- SELECT AN APPROPRIATE SPECIES OR SPECIES MIXTURE FROM TABLE 6.10A FOR SEEDING IN LATE WINTER AND EARLY SPRING, TABLE 6.10B FOR SUMMER, AND TABLE 6.10C FOR FALL.
- IN THE MOUNTAINS, DECEMBER AND JANUARY SEEDING HAVE POOR CHANCES OF SUCCESS. WHEN IT IS NECESSARY TO PLANT AT THESE TIMES, USE RECOMMENDATIONS FOR FALL AND A SECURELY TACKED MULCH.

SEEDING

- EVENLY APPLY SEED USING A CYCLONE SEEDER (BROADCAST), DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. USE SEEDING RATES GIVEN IN TABLES 6.10A-6.10C. BROADCAST SEEDING AND HYDROSEEDING ARE APPROPRIATE FOR STEEL SLOPES WHERE EQUIPMENT CANNOT BE DRIVEN. HAND BROADCASTING IS NOT RECOMMENDED BECAUSE OF THE DIFFICULTY IN ACHIEVING A UNIFORM DISTRIBUTION.
- SMALL GRAINS SHOULD BE PLANTED NO MORE THAN 1 INCH DEEP, AND GRASSES AND LEGUMES NO MORE THAN 1/2 INCH. BROADCAST SEED MUST BE COVERED BY RAKING OR CHAIN DRAGGING, AND THEN LIGHTLY FIRMED WITH A ROLLER OR CULTIPACKER. HYDROSEEDED MIXTURES SHOULD INCLUDE A WOOD FIBER (CELLULOSE) MULCH.

MULCHING

THE USE OF AN APPROPRIATE MULCH WILL HELP ENSURE ESTABLISHMENT UNDER NORMAL CONDITIONS, AND IS ESSENTIAL TO SEEDING SUCCESS UNDER HARSH SITE CONDITIONS (REFER TO THE NCDEQ EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, PRACTICE 6.14, MULCHING). HARSH SITE CONDITIONS INCLUDE:

- SEEDING IN FALL FOR WINTER COVER (WOOD FIBER MULCHES ARE NOT CONSIDERED ADEQUATE FOR THIS USE),
- SLOPES STEEPER THAN 3:1,
- EXCESSIVELY HOT OR DRY WEATHER,
- ADVERSE SOILS (SHALLOW, ROCKY, OR HIGH IN CLAY OR SAND), AND
- AREAS RECEIVING CONCENTRATED FLOW.

IF THE AREA TO BE MULCHED IS SUBJECT TO CONCENTRATED WATERFLOW, AND IN CHANNELS, ANCHOR MULCH WITH NETTING (REFER TO THE NCDEQ EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, PRACTICE 6.14, MULCHING).

TEMPORARY SEEDING MAINTENANCE

RESEED AND MULCH AREAS WHERE SEEDING EMERGENCE IS POOR, OR WHERE EROSION OCCURS, AS SOON AS POSSIBLE. DO NOT MOW. PROTECT FROM TRAFFIC AS MUCH AS POSSIBLE.

TEMPORARY SEED SCHEDULE (Jan 1 - May 1)

GRASS SPECIES BLEND	PLANTING RATE	MIN. % PURE SEED	MAX. % WEED SEED
ANNUAL RYE GRASS	50-LBS PER 1-ACRE	85%	1%

SOIL AMENDMENTS:
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2.00LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

MULCH:
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

TEMPORARY SEED SCHEDULE (Oct 1 - Dec 30)

GRASS SPECIES BLEND	PLANTING RATE	MIN. % PURE SEED	MAX. % WEED SEED
ANNUAL RYE GRASS	50-LBS PER 1-ACRE	85%	1%

SOIL AMENDMENTS:
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2.00LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER.

MULCH:
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:
REPAIR AND REFERTILIZE DAMAGES AREAS IMMEDIATELY. TOPDRESS WITH 50 LB/ACRE OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/ACRE KOBE (PIEDMONT AND COASTAL PLAIN) OR KOREAN (MOUNTAINS) LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

TEMPORARY SEED SCHEDULE (May 1 - Sept 30)

GRASS SPECIES BLEND	PLANTING RATE	MIN. % PURE SEED	MAX. % WEED SEED
GERMAN MILLET	30-LBS PER 1-ACRE	85%	1%

SOIL AMENDMENTS:
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2.00LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

MULCH:
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

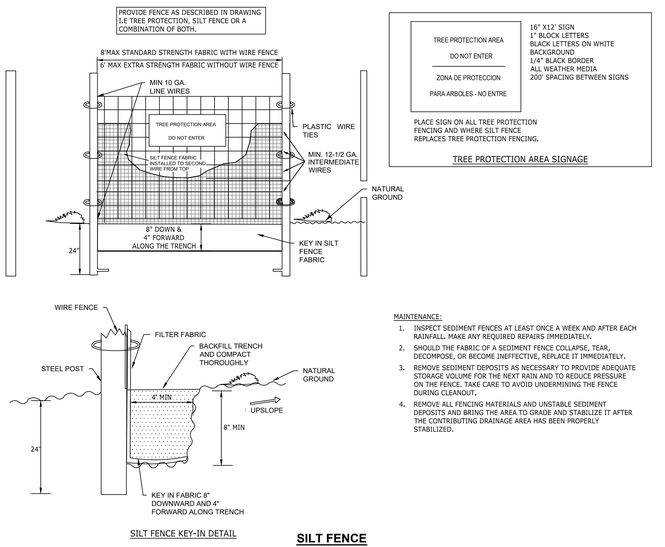
MAINTENANCE:
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

PERMANENT SEED SCHEDULE (MAY 1-AUGUST 15)

GRASS SPECIES BLEND	PLANTING RATE	MIN. % PURE SEED	MAX. % WEED SEED
HULLED SUNSTAR OR RIVIERA BERMUDA	200-LBS PER 1-ACRE	98%	1%

NOTES:
1. PERMANENT SEEDING FOR THIS PROJECT SHALL OCCUR BETWEEN MAY 1-AUGUST 15. ADJUSTED AS NECESSARY FOR ADEQUATE GROUND TEMPERATURES. GROUND TEMPERATURES SHALL BE IN THE RANGE OF 60-80 DEGREES FOR GERMINATION.
2. REFER TO SPECIFICATION SECTION 329200

TEMPORARY/PERMANENT SEEDING
NO SCALE

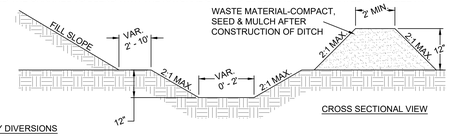


MAINTENANCE:
1. INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY.
3. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
4. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

SILT FENCE
NO SCALE

NOTES:
1. TEMPORARY DIVERSION DITCH TO BE USED TO INTERCEPT FLOW AND/OR DIVERT TO A SEDIMENT CONTROL MEASURE OR BMP.
2. SILT SHALL BE REMOVED WHEN DITCH IS ONE-HALF FULL.
3. DITCH SHALL BE RECONSTRUCTED WHEN DAMAGED BY EQUIPMENT OR COVERED BY FILL.
4. STABILIZE DIVERSION DITCH BERM WITH TEMPORARY SEEDING, MULCH WITH TAC, AND/OR EROSION CONTROL NETTING.

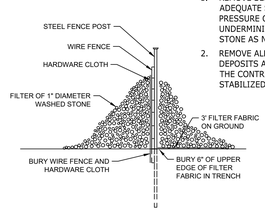
MAINTENANCE
INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.



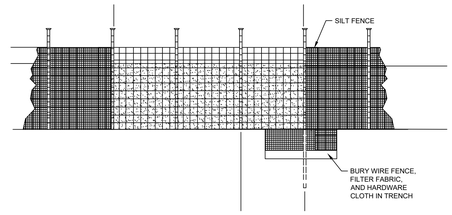
DITCH	TOTAL FLOW (CFS)	SLOPE (%)	BOTTOM WIDTH (FT)	RIGHT SLOPE (H:V)	LEFT SLOPE (H:V)	FLOW DEPTH (FT)	TEMPORARY LINER	PERMANENT LINER
A	90.9	0.50	2	3:1	3:1	2.45	NORTH AMERICAN GREEN, S75	GRASS
B	43.8	5.20	6	3:1	3:1	0.75	NORTH AMERICAN GREEN, COIR MAT 400	NORTH AMERICAN GREEN, COIR MAT 400 W/ GRASS
C	5.90	1.00	0	3:1	3:1	0.90	NORTH AMERICAN GREEN, COIR MAT 400	NORTH AMERICAN GREEN, COIR MAT 400 W/ GRASS
D	9.10	1.00	0	3:1	3:1	1.05	NORTH AMERICAN GREEN, S75	GRASS
E	9.30	1.20	0	3:1	3:1	0.98	NORTH AMERICAN GREEN, S75	N/A
F	45.7	0.50	0	3:1	3:1	1.90	NORTH AMERICAN GREEN, S75	N/A
G	11.5	1.20	0	3:1	3:1	1.14	NORTH AMERICAN GREEN, S75	N/A
H	57.4	0.90	0	3:1	3:1	1.98	NORTH AMERICAN GREEN, S75	N/A
I	21.5	0.90	0	3:1	3:1	1.42	NORTH AMERICAN GREEN, S75	N/A
J	37.9	1.00	0	3:1	3:1	1.84	NORTH AMERICAN GREEN, S75	N/A

DIVERSION DITCH
NO SCALE

MAINTENANCE NOTES:
1. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE/OUTLET. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE & REPLACE STONE AS NECESSARY AS IT BECOMES CLOGGED WITH SEDIMENT.
2. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

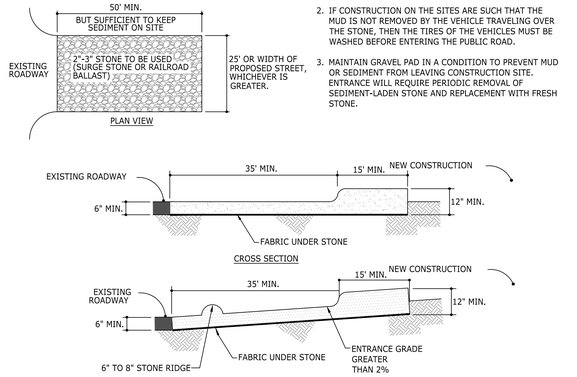


NOTES:
1. INSTALL SILT FENCE PER STD. SILT FENCE DETAIL.
2. LOCATE REINFORCED OUTLET AT LOW POINTS OF SILT FENCE BARRIER.
3. PLACE RIP RAP WITH CARE. DO NOT TEAR SILT FENCE FABRIC.



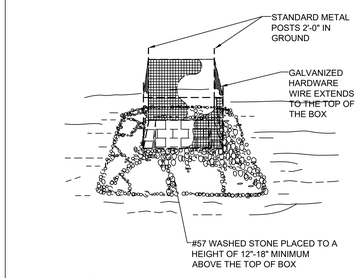
REINFORCED SILT FENCE OUTLET
NO SCALE

NOTES:
1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.
3. MAINTAIN GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING CONSTRUCTION SITE. ENTRANCE WILL REQUIRE PERIODIC REMOVAL OF SEDIMENT-LADEN STONE AND REPLACEMENT WITH FRESH STONE.



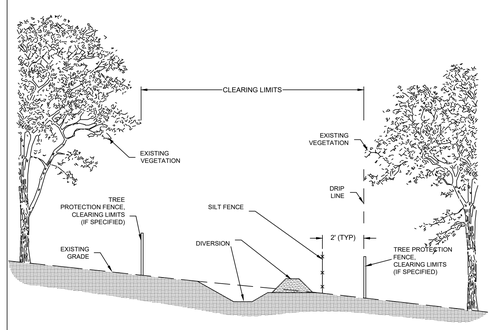
MAINTENANCE
MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH TWO-INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.

GRAVEL CONSTRUCTION ENTRANCE
NO SCALE



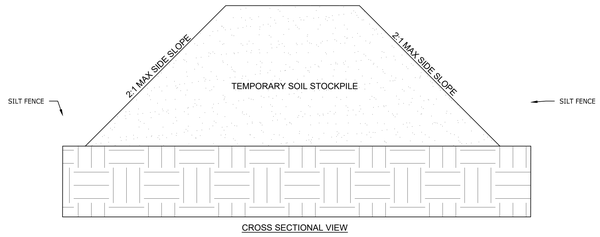
NOTE:
1. INSPECT INLET PROTECTION AND REMOVE SEDIMENT AFTER EACH RAIN EVENT. GRAVEL SHOULD BE REPLACED AND REPAIRS MADE AS NEEDED.

HARDWARE CLOTH AND GRAVEL YARD INLET PROTECTION
NO SCALE



* REFER TO THE SPECIFICATIONS AND MAINTENANCE REQUIREMENTS IN THE "NORTH CAROLINA EROSION CONTROL PLANNING MANUAL" JUNE 1, 2006 EDITION.

TYPICAL EROSION CONTROL INSTALLATION
NO SCALE



NOTES:
1. SEDIMENT BARRIERS: USE SEDIMENT FENCES OR OTHER BARRIERS WHERE NECESSARY TO RETAIN SEDIMENT.
2. TEMPORARY SEEDING: PROTECT TOPSOIL STOCKPILES BY TEMPORARILY SEEDING AS SOON AS POSSIBLE, NO MORE THAN 7 CALENDAR DAYS AFTER THE FORMATION OF THE STOCKPILE (NCG01 GROUND STABILIZATION).
3. PERMANENT VEGETATION: IF STOCKPILES WILL NOT BE USED WITHIN 90 DAYS THEY MUST BE STABILIZED WITH PERMANENT VEGETATION TO CONTROL EROSION AND WEED GROWTH (PRACTICE 6.11, PERMANENT SEEDING).
4. INSTALL SILT FENCE OUTLETS AT LOW POINTS AS NEEDED.
5. HEIGHT OF STOCKPILE CAN BE NO MORE THAN 10' MAX

TEMPORARY SOIL STOCKPILE
NOT TO SCALE

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045892 William P. Ahmon 12-13-24

CONSTRUCTION DOCUMENTS

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FLATWOODS MIDDLE SCHOOL

Harnett County Schools
3544 US 401 S
Lillington, NC 27546

ENERGY STAR PARTNER

No.	Date	Description
1	12-06-24	NCDQ CD
2	12-13-24	CD REVISIONS
3	12-06-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24
PROJECT #: 63089
DRAWN BY: JG
CHECKED BY: WA

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NOTES AND DETAILS

C5.7

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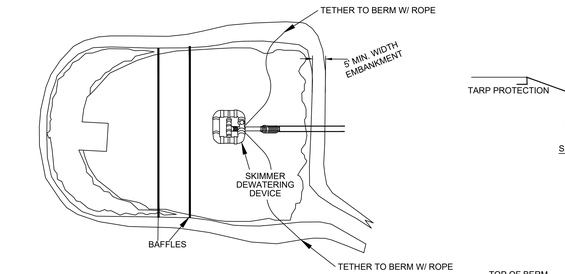
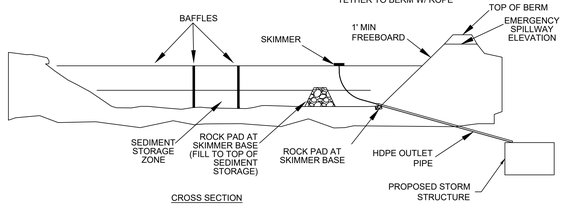
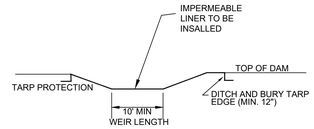
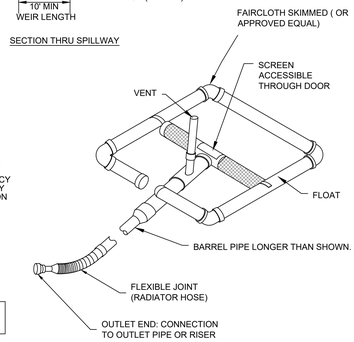




CROSS SECTION



SECTION THRU SPILLWAY



BASIN NUMBER	DRAINAGE AREA (AC)	DISTB. AREA (AC)	PEAK FLOW(CFS)	BASIN SURFACE AREA(SF)	REQUIRED SURFACE AREA(SF)	BASIN VOLUME (CF)	REQUIRED BASIN VOLUME (CF)	SPILLWAY WIDTH (FT)	SKIMMER SIZE (IN.)	SKIMMER ORIFICE DIAMETER (IN.)	TOP OF BERM ELEV.	EMERGENCY SPILLWAY ELEV.	BOTTOM OF BASIN ELEV.	SIDE SLOPES	DEWATERING TIME (DAYS)
A	16.05	16.05	60.48	32,855	26,307	162,816	28,890	25	3	2.75	157	156	150	3:1	3.31
B	15.38	15.38	57.95	32,784	25,209	115,913	27,684	20	3	2.75	161	160	154	3:1	3.17
C	18.35	18.35	69.14	30,415	30,077	56,704	33,030	25	4	2.75	159	158	157	3:1	3.28

BASIN SIDES AND WEIR SHALL HAVE MAXIMUM SLOPES OF 2:1 OR FLATTER. DIMENSIONS SHOWN ARE AT WEIR ELEVATION OF BASIN VOLUMES PROVIDED ARE BASED ON AVAILABLE VOLUME AT THE PRINCIPAL SPILLWAY

SEDIMENT BASIN WITH STANDARD SKIMMER

NO SCALE

MAINTENANCE NOTES:

INSPECT SKIMMER SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (ONE-HALF INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OR THE FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER.

REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM. IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO REMOVE THE DEBRIS.

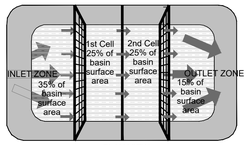
IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER.

CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE. AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS.

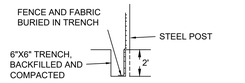
FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.

CONSTRUCTION SEQUENCE

1. CLEAR, GRUB, AND STRIP THE AREA UNDER THE EMBANKMENT OF ALL VEGETATION AND ROOT MAT. REMOVE ALL SURFACE SOIL CONTAINING HIGH AMOUNTS OF ORGANIC MATTER AND STOCKPILE OR DISPOSE OF IT PROPERLY. HAUL ALL OBJECTIONABLE MATERIAL TO THE DESIGNATED DISPOSAL AREA. PLACE TEMPORARY SEDIMENT CONTROL MEASURES BELOW BASIN AS NEEDED.
2. ENSURE THAT FILL MATERIAL FOR THE EMBANKMENT IS FREE OF ROOTS, WOODY VEGETATION, ORGANIC MATTER, AND OTHER OBJECTIONABLE MATERIAL. PLACE THE FILL IN LIFTS NOT TO EXCEED 9 INCHES, AND MACHINE COMPACT IT. OVER FILL THE EMBANKMENT 6 INCHES TO ALLOW FOR SETTLEMENT.
3. SHAPE THE BASIN TO THE SPECIFIED DIMENSIONS. PREVENT THE SKIMMING DEVICE FROM SETTLING INTO THE MUD BY EXCAVATING A SHALLOW PIT UNDER THE SKIMMER OR PROVIDING A LOW SUPPORT UNDER THE SKIMMER OF STONE OR TIMBER.
4. PLACE THE BARREL (TYPICALLY 4-INCH SCHEDULE 40 PVC PIPE) ON A FIRM, SMOOTH FOUNDATION OF IMPERVIOUS SOIL. DO NOT USE PERVIOUS MATERIAL SUCH AS SAND, GRAVEL, OR CRUSHED STONE AS BACKFILL AROUND THE PIPE. PLACE THE FILL MATERIAL AROUND THE PIPE SPILLWAY IN 4-INCH LAYERS AND COMPACT IT UNDER AND AROUND THE PIPE TO AT LEAST THE SAME DENSITY AS THE ADJACENT EMBANKMENT. CARE MUST BE TAKEN NOT TO RAISE THE PIPE FROM THE FIRM CONTACT WITH ITS FOUNDATION WHEN COMPACTING UNDER THE PIPE HAUNCHES. PLACE A MINIMUM DEPTH OF 2 FEET OF COMPACTED BACKFILL OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT. IN NO CASE SHOULD THE PIPE CONDUIT BE INSTALLED BY CUTTING A TRENCH THROUGH THE DAM AFTER THE EMBANKMENT IS COMPLETE.
5. ASSEMBLE THE SKIMMER FOLLOWING THE MANUFACTURERS INSTRUCTIONS, OR AS DESIGNED.
6. LAY THE ASSEMBLED SKIMMER ON THE BOTTOM OF THE BASIN WITH THE FLEXIBLE JOINT AT THE INLET OF THE BARREL PIPE. ATTACH THE FLEXIBLE JOINT TO THE BARREL PIPE AND POSITION THE SKIMMER OVER THE EXCAVATED PIT OR SUPPORT. BE SURE TO ATTACH A ROPE TO THE SKIMMER AND ANCHOR IT TO THE SIDE OF THE BASIN. THIS WILL BE USED TO PULL THE SKIMMER TO THE SIDE FOR MAINTENANCE.
7. EARTHEN SPILLWAYS--INSTALL THE SPILLWAY IN UNDISTURBED SOIL TO THE GREATEST EXTENT POSSIBLE. THE ACHIEVEMENT OF PLANNED ELEVATIONS, GRADE, DESIGN WIDTH, AND ENTRANCE AND EXIT CHANNEL SLOPES ARE CRITICAL TO THE SUCCESSFUL OPERATION OF THE SPILLWAY. THE SPILLWAY SHOULD BE LINED WITH LAMINATED PLASTIC OR IMPERMEABLE GEOTEXTILE FABRIC. THE FABRIC MUST BE WIDE AND LONG ENOUGH TO COVER THE BOTTOM AND SIDES AND EXTEND ONTO THE TOP OF THE DAM FOR ANCHORING IN A TRENCH. THE EDGES MAY BE SECURED WITH 8-INCH STAPLES OR PINS. THE FABRIC MUST BE LONG ENOUGH TO EXTEND DOWN THE SLOPE AND EXIT ONTO STABLE GROUND. THE WIDTH OF THE FABRIC MUST BE ONE PIECE, NOT JOINED OR SPLICED; OTHERWISE WATER CAN GET UNDER THE FABRIC. IF THE LENGTH OF THE FABRIC IS INSUFFICIENT FOR THE ENTIRE LENGTH OF THE SPILLWAY, MULTIPLE SECTIONS, SPANNING THE COMPLETE WIDTH, MAY BE USED. THE UPPER SECTION(S) SHOULD OVERLAP THE LOWER SECTION(S) SO THAT WATER CANNOT FLOW UNDER THE FABRIC. SECURE THE UPPER EDGE AND SIDES OF THE FABRIC IN A TRENCH WITH STAPLES OR PINS. (ADAPTED FROM "A MANUAL FOR DESIGNING, INSTALLING AND MAINTAINING SKIMMER SEDIMENT BASINS." FEBRUARY, 1999. J. W. FAIRCLOTH & SON.).
8. INLETS--DISCHARGE WATER INTO THE BASIN IN A MANNER TO PREVENT EROSION. USE TEMPORARY SLOPE DRAINS OR DIVERSIONS WITH OUTLET PROTECTION TO DIVERT SEDIMENT- LADEN WATER TO THE UPPER END OF THE POOL AREA TO IMPROVE BASIN TRAP EFFICIENCY (REFERENCES: RUNOFF CONTROL MEASURES AND OUTLET PROTECTION).
9. EROSION CONTROL--CONSTRUCT THE STRUCTURE SO THAT THE DISTURBED AREA IS MINIMIZED. DIVERT SURFACE WATER AWAY FROM BARE AREAS. COMPLETE THE EMBANKMENT BEFORE THE AREA IS CLEARED. STABILIZE THE EMERGENCY SPILLWAY EMBANKMENT AND ALL OTHER DISTURBED AREAS ABOVE THE CREST OF THE PRINCIPAL SPILLWAY IMMEDIATELY AFTER CONSTRUCTION (REFERENCES: SURFACE STABILIZATION).
10. INSTALL POROUS BAFFLES AS SPECIFIED IN PRACTICE 6.65
11. AFTER ALL THE SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL THE UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND STABILIZE PROPERLY (REFERENCES: SURFACE STABILIZATION).



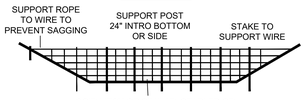
PLAN VIEW



SECTION VIEW AT OPENING

NOTES:
1. BAFFLE MATERIAL SHOULD BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR SILT FENCE.
2. MOST OF THE SEDIMENT WILL ACCUMULATE IN THE 1ST BAY, WHICH SHOULD BE READILY ACCESSIBLE FOR MAINTENANCE.
3. PROVIDE 3 BAFFLES (USE TWO IF LESS THAN 20 FEET IN LENGTH). PROVIDE 5 BAFFLES FOR DRAINAGE AREAS GREATER THAN 10 ACRES.
4. BAFFLE SHALL BE 700 G/M2 COIR EROSION BLANKET.
5. TOPS OF BAFFLES SHOULD BE 2 INCHES LOWER THAN THE TOP OF THE BERMS
6. INSPECT BAFFLES FOR REPAIR ONCE A WEEK AND AFTER EACH RAINFALL

CROSS SECTION



MAINTENANCE
INSPECT BAFFLES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.

BE SURE TO MAINTAIN ACCESS TO THE BAFFLES. SHOULD THE FABRIC OF A BAFFLE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.

REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF FULL TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE BAFFLES. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGNED STORAGE DEPTH.

REMOVE ALL BAFFLE MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

COIR MESH BAFFLES DETAIL (*NCDENR 6.65)

NOT TO SCALE

DATE:

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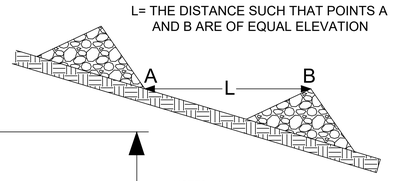
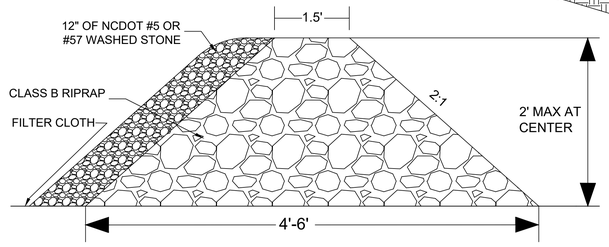
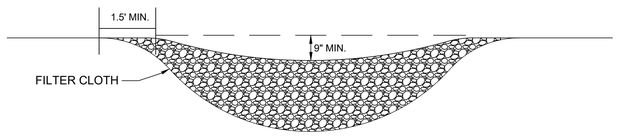




CROSS-SECTION VIEW



PLAN VIEW

NOTES:
1. Place stone on a filter fabric foundation.
2. The center stone section must be at least 9 inches below natural ground level where the dam abuts the channel banks.
3. Extend stone at least 1.5 feet beyond the ditch bank to keep water from cutting around the ends of the check dam.
4. Set spacing between dams to assure that the elevation at the top of the lower dam is the same as the toe elevation of the upper dam.
5. Protect the channel after the lowest check dam from heavy flow that could cause erosion.
6. Make sure the channel reach above the most upstream dam is stable.
7. Ensure that other areas of the channel, such as culvert entrances below the check dams, are not subject to damage or blockage from displaced stones.
8. Riprap and filter fabric should be keyed in to prevent under cutting.
9. Ends of check dams may need to be turned uphill to prevent bypass and better conform to site conditions.
10. Do not place check dams in intermittent or perennial streams.

MAINTENANCE:
1. Inspect check dams and channels at least weekly and after each rainfall of 1.0 inch or greater. Clean out sediment, straw, limbs or other debris that could clog the channel when needed.
2. Anticipate submergence and deposition above the check dam and erosion from high flows around the edges of the dam. Correct all damage immediately. If significant erosion occurs between dams, additional measures can be taken such as, installing a protective riprap liner in that portion of the channel.
3. Remove sediment accumulated behind the dams as needed to prevent damage to channel vegetation, allow the channel to drain through the stone check dam, and prevent large flows from carrying sediment over the dam. Add stones to the dams as needed to maintain design height and cross section.

DEQ ECOSYSTEM PROTECTION

CHECK DAM

Effective Date: 9/1/2023
In accordance with the 2013 Design Manual Updates

NORTH AMERICAN GREEN MATTING MAINTENANCE NOTES

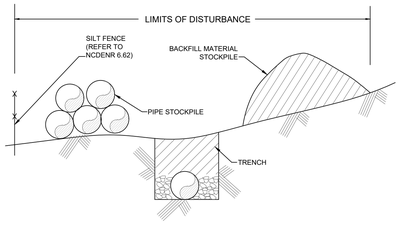
1. INSPECT ROLLED EROSION CONTROL PRODUCTS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAIN FALL EVENT REPAIR IMMEDIATELY.
2. GOOD CONTACT WITH THE GROUND MUST BE MAINTAINED, AND EROSION MUST NOT OCCUR BENEATH THE RECP.
3. ANY AREAS OF THE RECP THAT ARE DAMAGED OR NOT IN CLOSE CONTACT WITH THE GROUND SHALL BE REPAIRED AND STAPLED.
4. IF EROSION OCCURS DUE TO POORLY CONTROLLED DRAINAGE, THE PROBLEM SHALL BE FIXED AND THE ERODED AREA PROTECTED.
5. MONITOR AND REPAIR THE RECP AS NECESSARY UNTIL GROUND COVER IS ESTABLISHED.

CONSTRUCTION SPECIFICATIONS
1. MATERIALS USED IN THE COMPOST SOCK MUST MEET THE SPECIFICATIONS OUTLINED ABOVE AND IN PRACTICE 6.18, COMPOST BLANKETS.
2. COMPOST SOCKS SHOULD BE LOCATED AS SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN.
3. PRIOR TO INSTALLATION, CLEAR ALL OBSTRUCTIONS INCLUDING ROCKS, CLODS, AND OTHER DEBRIS GREATER THAN ONE INCH THAT MAY INTERFERE WITH PROPER FUNCTION OF THE COMPOST SOCK.
4. COMPOST SOCKS SHOULD BE INSTALLED PARALLEL TO THE TOE OF A GRADED SLOPE, A MINIMUM OF 10 FEET BEYOND THE TOE OF THE SLOPE. SOCKS LOCATED BELOW FLAT AREAS SHOULD BE LOCATED AT THE EDGE OF THE LAND-DISTURBANCE. THE ENDS OF THE SOCKS SHOULD BE TURNED SLIGHTLY UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE END OF THE SOCKS.
5. FILL SOCK NETTING UNIFORMLY WITH COMPOST TO THE DESIRED LENGTH SUCH THAT LOGS DO NOT DEFORM.
6. OAK OR OTHER DURABLE HARDWOOD STAKES 2" X 2" IN CROSS SECTION SHOULD BE DRIVEN VERTICALLY PLUMB, THROUGH THE CENTER OF THE COMPOST SOCK. STAKES SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 4 FEET, OR A MAXIMUM INTERVAL OF 8 FEET IF THE SOCK IS PLACED IN A 4 INCH TRENCH. SEE FIGURE 6.66B. THE STAKES SHOULD BE DRIVEN TO A MINIMUM DEPTH OF 12 INCHES, WITH A MINIMUM OF 3 INCHES PROTRUDING ABOVE THE COMPOST SOCK.
7. IN THE EVENT STAKING IS NOT POSSIBLE (I.E., WHEN SOCKS ARE USED ON PAVEMENT) HEAVY CONCRETE BLOCKS SHALL BE USED BEHIND THE SOCK TO HOLD IT IN PLACE DURING RUNOFF EVENTS.
8. IF THE COMPOST SOCK IS TO BE LEFT AS PART OF THE NATURAL LANDSCAPE, IT MAY BE SEEDED AT TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION USING THE SEEDING SPECIFICATION IN THE EROSION AND SEDIMENTATION CONTROL PLAN.
9. COMPOST SOCKS ARE NOT TO BE USED IN PERENNIAL OR INTERMITTENT STREAMS.

MAINTENANCE:
1. INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER). REMOVE ACCUMULATED SEDIMENT AND ANY DEBRIS. THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN. IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE. THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLODGED. THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.

DISPOSAL/RECYCLING:
1. COMPOST MEDIA IS A COMPOSTED ORGANIC PRODUCT RECYCLED AND MANUFACTURED FROM LOCALLY GENERATED ORGANIC, NATURAL, AND BIOLOGICALLY BASED MATERIALS. ONCE ALL SOIL HAS BEEN STABILIZED AND CONSTRUCTION ACTIVITY HAS BEEN COMPLETED, THE COMPOST MEDIA MAY BE DISPERSED WITH A LOADER, RAKE, BULLDOZER OR SIMILAR DEVICE AND MAY BE INCORPORATED INTO THE SOIL AS AN AMENDMENT OR LEFT ON THE SOIL SURFACE TO AID IN PERMANENT SEEDING OR LANDSCAPING. LEAVING THE COMPOST MEDIA ON SITE REDUCES REMOVAL AND DISPOSAL COSTS COMPARED TO OTHER SEDIMENT CONTROL DEVICES. THE MESH NETTING MATERIAL WILL BE EXTRACTED FROM THE MEDIA AND DISPOSED OF PROPERLY. THE PHOTODEGRADABLE MESH NETTING MATERIAL WILL DEGRADE IN 2 TO 5 YEARS IF LEFT ON SITE. BIODEGRADABLE MESH NETTING MATERIAL IS AVAILABLE AND DOES NOT NEED TO BE EXTRACTED AND DISPOSED OF, AS IT WILL COMPLETELY DECOMPOSE IN APPROXIMATELY 6 TO 12 MONTHS. USING BIODEGRADABLE COMPOST SOCKS COMPLETELY ELIMINATES THE NEED AND COST OF REMOVAL AND DISPOSAL.

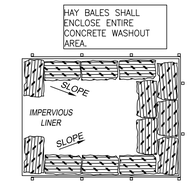
COMPOST SOCK
NOT TO SCALE



EROSION CONTROL PROTECTION FOR PIPE TRENCHING

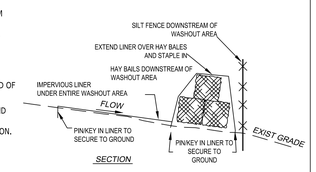
NO SCALE

MAINTENANCE NOTES:
1. INSPECT AREA REGULARLY AND AFTER EACH RAIN EVENT AND MAKE REPAIRS PROMPTLY.
2. ENSURE CONCRETE IS BEING CAPTURED AND IS NOT FLOWING THROUGH OR AROUND BARRIERS.
3. REPLACE HAY BALES AND SILT FENCE THAT NO LONGER DRAIN OR FILTER EFFICIENTLY.
4. REPLACE OR PATCH IMPERVIOUS LINER THAT IS BECOMES DAMAGED. RE-ANCHOR LINER AS NEEDED.
5. REMOVE ACCUMULATED DRIED CONCRETE THAT IS IMPEDING DRAINAGE OR REDUCING STORAGE VOLUME. DISPOSE OF WASTE CONCRETE PROPERLY.



PLAN

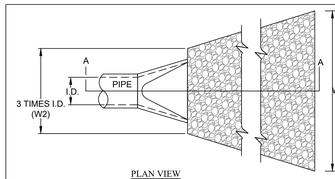
NOTES:
1. LOCATE WASH-OUT AREA AT LEAST 50' FROM OPEN WATERS AND DRAINAGE INLETS.
2. LINE LIMITS OF TEMP CONCRETE WASH OUT AREA WITH IMPERVIOUS LINER OF 8-MIL LAMINATED PLASTIC GEOTEXTILE FABRIC (DURA-SKRIM 8BW OR APPROVED EQUAL).
3. ADD STRAW BAILS ON DOWN-GRADIENT END OF LINER.
4. PROPERLY DISPOSE OF DRIED CONCRETE AND RESTORE AREA TO FINAL GRADES AND SURFACES AT COMPLETION OF CONSTRUCTION.



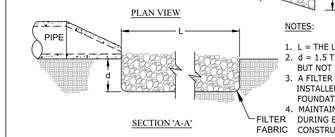
SECTION

CONCRETE WASHOUT AREA

NO SCALE



MAINTENANCE
RIP RAP SHOULD BE INSPECTED PERIODICALLY FOR SCOUR OR DISLODGED STONES. CONTROL OF WEED AND BRUSH GROWTH MAY BE NEEDED IN SOME LOCATIONS.



NOTES:
1. L = THE LENGTH OF THE RIPRAP APRON.
2. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6" (INCHES).
3. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.
4. MAINTAIN ENERGY DISSIPATERS INSTALLED DURING EARLY SITE WORK THROUGHOUT THE CONSTRUCTION AREA.

ENERGY DISSIPATER SCHEDULE

	PIPE SIZE	W1 (FT)	W2 (FT)	LENGTH (FT)	THICKNESS (IN). (d)	D50 SIZE (IN.)	STONE CLASS
RR 1	15"	6.3	3.8	5.0	12	3	A
RR 2	36"	21.0	9.0	18.0	22	6	B
RR 3	36"	9.0	9.0	24.0	26	10	B
RR 4	36"	9.0	9.0	24.0	26	10	B
RR 5	36"	21.0	9.0	18.0	22	6	B

RIPRAP OUTLET PROTECTION

NO SCALE

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045892 William P. Almon 12-13-24

CONSTRUCTION DOCUMENTS

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Harnett County Schools
FLATWOODS MIDDLE SCHOOL
3544 US 401 S
Lillington, NC 27546

ENERGY STAR PARTNER

No.	Date	Description
1	12-06-24	NCDOI CD
2	12-13-24	CD REVISIONS
3	12-06-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24
PROJECT #: 63089
DRAWN BY: JG
CHECKED BY: WA

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NOTES AND DETAILS

C5.8

ADA AND LEGAL DISCLAIMER: This document is intended to comply with the requirements of the Americans with Disabilities Act (ADA). However architects and engineers are not licensed to interpret laws or give advice concerning laws. The owner should have this document reviewed by his attorney to determine if it complies with ADA and other laws.

Date:

Page:

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	**Stabilize within this many calendar days after ceasing land disturbance**	**Timeframe variations**
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10 feet or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
· Temporary grass seed covered with straw or other mulches and tackifiers. · Hydroseeding · Rolled erosion control products with or without temporary grass seed · Appropriately applied straw or other mulch · Plastic sheeting	· Permanent grass seed covered with straw or other mulches and tackifiers · Geotextile fabrics such as permanent soil reinforcement matting · Hydroseeding · Shrubs or other permanent plantings covered with mulch · Uniform and evenly distributed ground cover sufficient to restrain erosion · Structural methods such as concrete, asphalt or retaining walls · Rolled erosion control products with grass seed

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

EARTHEN STOCKPILE MANAGEMENT

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

HERBICIDES, PESTICIDES AND RODENTICIDES

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials onsite.

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

NORTH CAROLINA Environmental Quality

EFFECTIVE DATE: 11/12/2020

NCG-01 GROUND COVER

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

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SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	**Stabilize within this many calendar days after ceasing land disturbance**	**Timeframe variations**
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt or retaining walls • Rolled erosion control products with grass seed

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3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sized and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

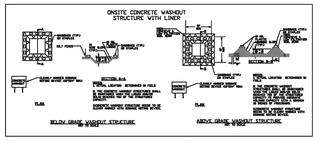
EARTHEN STOCKPILE MANAGEMENT

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

NORTH CAROLINA Environmental Quality

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19



CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un-attended days (anc this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDCs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the aproved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

(a) This General Permit as well as the Certificate of Coverage, after it is received.

(b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• ***Within 24 hours,*** an oral or electronic notification. • ***Within 7 calendar days,*** a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	• ***Within 24 hours,*** an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses (40 CFR 122.41(m)(3))	• ***A report at least ten days before the date of the bypass, if possible.*** The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses (40 CFR 122.41(m)(3))	• ***Within 24 hours,*** an oral or electronic notification. • ***Within 7 calendar days,*** a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment(40 CFR 122.41(l)(7))	• ***Within 24 hours,*** an oral or electronic notification. • ***Within 7 calendar days,*** a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. (40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

PART II, SECTION G, ITEM (4)
DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

(a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
(b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
(c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
(f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

NORTH CAROLINA Environmental Quality

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

NORTH CAROLINA PROFESSIONAL SEAL 045892 ENGINEER William P. Allman 12-13-24

CONSTRUCTION DOCUMENTS

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Harnett County Schools
FLATWOODS MIDDLE SCHOOL
3544 US 401 S
Lillington, NC 27546

ENERGY STAR PARTNER

No.	Date	Description
1	12-06-24	NCDQ CD
2	12-13-24	CD REVISIONS
3	12-06-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24

PROJECT #: 63089
DRAWN BY: JG
CHECKED BY: WA

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NOTES AND DETAILS

C5.9

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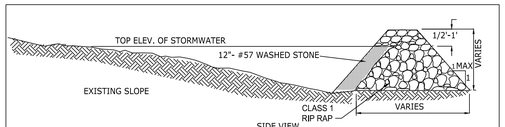


SIDE VIEW

DESIGN OF SPILLWAYS

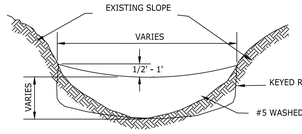
DRAINAGE AREA (ACRES)	MIN. WEIR LENGTH (FT)
1	4.0
2	6.0
3	8.0
4	10.0
5	12.0

NOTES:

HEIGHT AND WIDTH DETERMINED BY EXISTING TOPOGRAPHY AND SEDIMENT STORAGE REQUIRED.

KEY RIP RAP INTO THE DAM FOR STABILIZATION.

STEP SEQUENCE



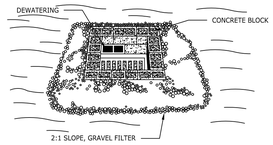
FRONT VIEW

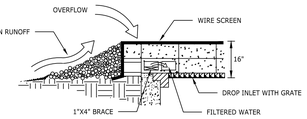
MAINTENANCE NOTES:

1. INSPECT CHECK PROTECTION WEEKLY AND AFTER ½" RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED.
2. IMMEDIATELY CORRECT ANY DAMAGE CAUSED BY SUBMERGED AND DEPOSITION ABOVE THE CHECK DAM AND FROM HIGH FLOWS AROUND THE EDGES.
3. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION, ALLOW THE CHANNEL TO DRAINTHROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

CHECK DAM

NO SCALE





NOTES:

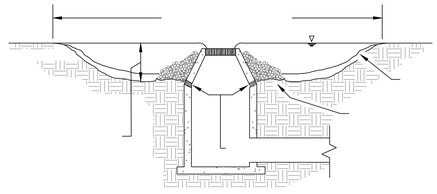
1. PLACE CONCRETE BLOCKS LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET WITH THE ENDS OF ADJACENT BLOCKS ABUTTING. THE HEIGHT OF THE BLOCKS SHALL BE 12".
2. WIRE MESH OR HARDWARE CLOTH SHALL BE PLACED OVER THE OUTSIDE VERTICAL FACE (WEBBING) OF THE BLOCKS, TO PREVENT STONE FROM BEING WASHED THROUGH THE HOLES IN THE BLOCKS.
3. #57 WASHED STONE SHALL BE PILED AGAINST THE WIRE TO THE TOP OF THE BLOCK.
4. PLACE 1"x4" BOARDS THROUGH THE HOLES OF CORNER BLOCKS.

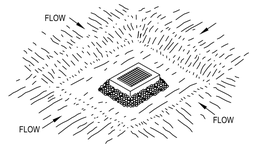
MAINTENANCE NOTES:

1. INSPECT THE BARRIER AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL AND MAKE REPAIRS AS NEEDED.
2. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS.
3. REPLACE #57 WASHED STONE IF IT BECOMES CLOGGED WITH SEDIMENT AND DOES NOT DRAIN EFFICIENTLY.
4. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

TEMPORARY CATCH BASIN INLET PROTECTION

NO SCALE





NO.	TOP OF GRATE ELEV	BOT ELEV	SURF. AREA REQ (SF)	VOLUME REQ (CF)
DI-3A	159.56	157.56	828	972
DI-13A	158.43	156.43	828	972
DI-16A	160.13	158.13	1,533	1,800
DI-2B	156.26	154.26	1,533	1,800

EXCAVATE STORAGE AREA ABOVE CHECK DAM TO MEET REQUIRED SURFACE AREA AND VOLUME.

CONSTRUCTION SPECIFICATIONS:

1. CLEAR THE AREA OF ALL DEBRIS THAT MIGHT HINDER EXCAVATION AND DISPOSAL OF SPOIL.
2. GRADE THE APPROACH OF THE INLET UNIFORMLY.
3. PROTECT WEEP HOLES BY GRAVEL.
4. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, SEAL WEEP HOLES, FILL THE EXCAVATED BASIN WITH STABLE SOIL TO FINAL GRADING ELEVATIONS, COMPACT THE FILL PROPERLY AND STABILIZE.

MAINTENANCE NOTES:

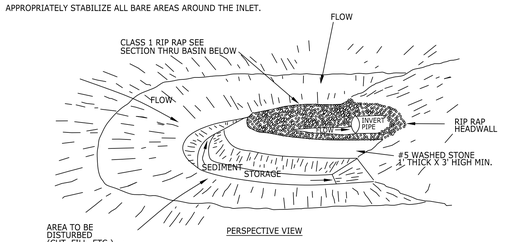
INSPECT, CLEAN, AND PROPERLY MAINTAIN THE EXCAVATED BASIN AFTER EVERY STORM UNTIL THE COMBINATION DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED. TO PROVIDE SATISFACTORY BASIN EFFICIENCY, REMOVE SEDIMENT WHEN THE VOLUME OF THE BASIN HAS BEEN REDUCED BY ONE-HALF. SPREAD ALL EXCAVATED MATERIAL EVENLY OVER THE SURROUNDING LAND AREA OR STOCKPILING AND STABILIZE IT APPROPRIATELY.

EXCAVATED DROP INLET PROTECTION

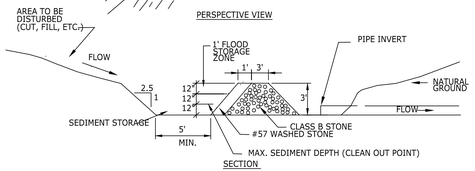
NO SCALE

MAINTENANCE NOTES:

1. INSPECT THE BARRIER AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL AND REPAIR IMMEDIATELY.
2. REMOVE SEDIMENT AND RESTORE SEDIMENT STORAGE AREA TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP.
3. CHECK THE STRUCTURE FOR DAMAGE AND REPLACE ANY DISPLACED RIPRAP IMMEDIATELY.
4. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.



PERSPECTIVE VIEW



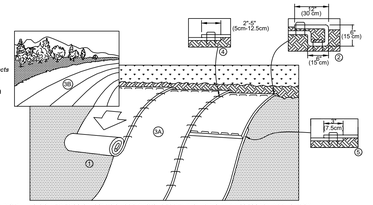
SECTION

EXCAVATED PIPE INLET PROTECTION

NO SCALE

SLOPE INSTALLATION

NORTH AMERICAN GREEN
EROSION CONTROL *Products Guaranteed* SOLUTIONS
14649 HIGHWAY 41 NORTH
EVANSVILLE, IN 47725
800-772-2040
www.nagreen.com



1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPs), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
   NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPs IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP's.
3. ROLL THE RECP's (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP's TYPE.
5. CONSECUTIVE RECP's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP's WIDTH.
   NOTE:
   *IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.

REV. 01/05

CHANNEL INSTALLATION

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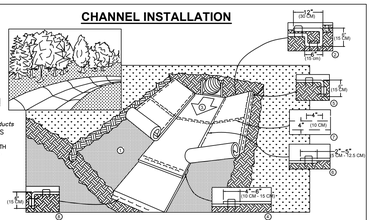
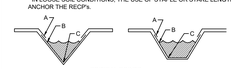
800-772-2040
www.nagreen.com



1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPs), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE RECP's IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) ACROSS THE WIDTH OF THE RECP's.
3. ROLL CENTER RECP's IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. TM WHEN USING THE DOT SYSTEM , STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. PLACE CONSECUTIVE RECP's END OVER END (SHINGLE STYLE) WITH A 4" - 6" (10 CM -15 CM) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER TO SECURE RECP's.
5. FULL LENGTH EDGE OF RECP's AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT RECP's MUST BE OVERLAPPED APPROXIMATELY 2" - 5" (5 CM -12.5 CM) (DEPENDING ON RECP's TYPE) AND STAPLED.
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9 M - 12 M) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
8. THE TERMINAL END OF THE RECP's MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

NOTE:
* IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP's.



CRITICAL POINTS
1 A. OVERLAPS AND SEAMS
B. PROJECTED WATER LINE
C. CHANNEL BOTTOM/SIDE SLOPE VERTICES

NOTE:
* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.

** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP's.

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045892 William P. Allman 12-13-24

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Harnett County Schools

FLATWOODS MIDDLE SCHOOL

3544 US 401 S
Lillington, NC 27546

ENERGY STAR PARTNER

No.	Date	Description
1	12-06-24	NCDOI CD
2	12-13-24	CD REVISIONS
3	12-06-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24
PROJECT #: 63089
DRAWN BY: JG
CHECKED BY: WA

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NOTES AND DETAILS

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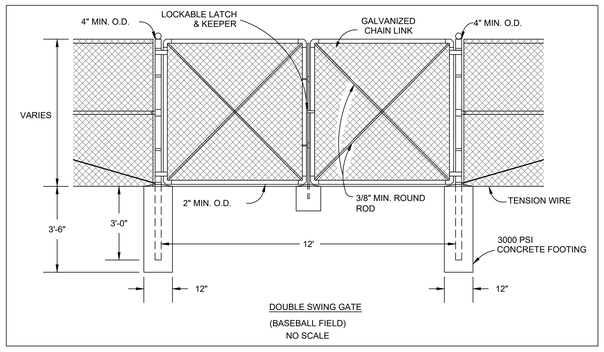
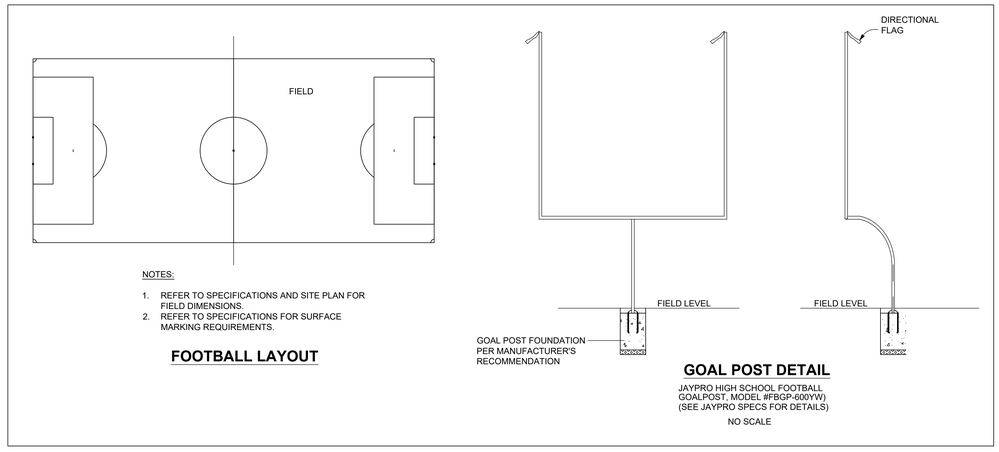


DOUBLE SWING GATE

(BASEBALL FIELD)

NO SCALE

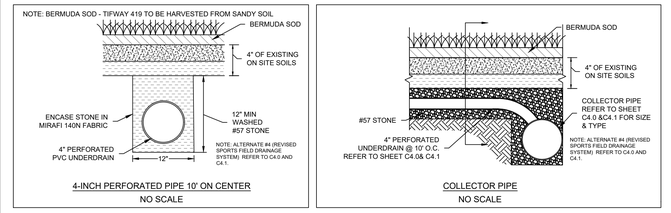


FOOTBALL LAYOUT

GOAL POST DETAIL

JAYPRO HIGH SCHOOL FOOTBALL GOALPOST, MODEL #FBGP-600YW) (SEE JAYPRO SPECS FOR DETAILS)

NO SCALE

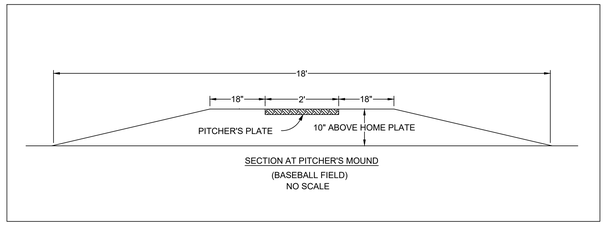


4-INCH PERFORATED PIPE 10' ON CENTER

NO SCALE

COLLECTOR PIPE

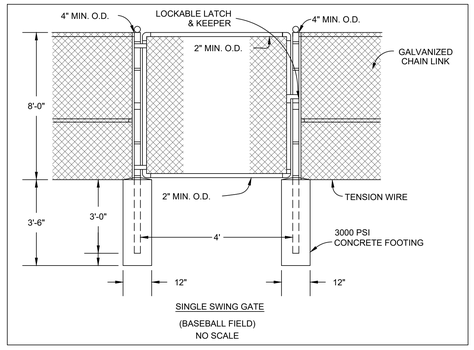
NO SCALE



SECTION AT PITCHER'S MOUND

(BASEBALL FIELD)

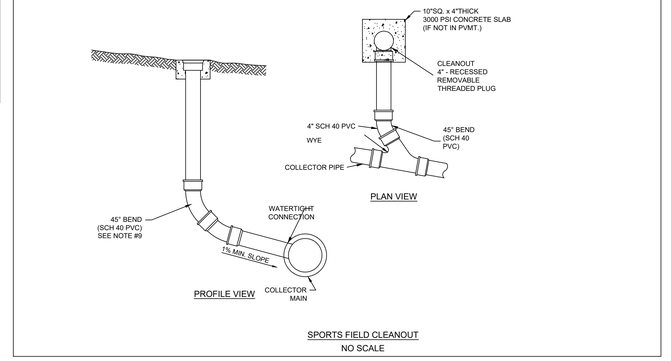
NO SCALE



SINGLE SWING GATE

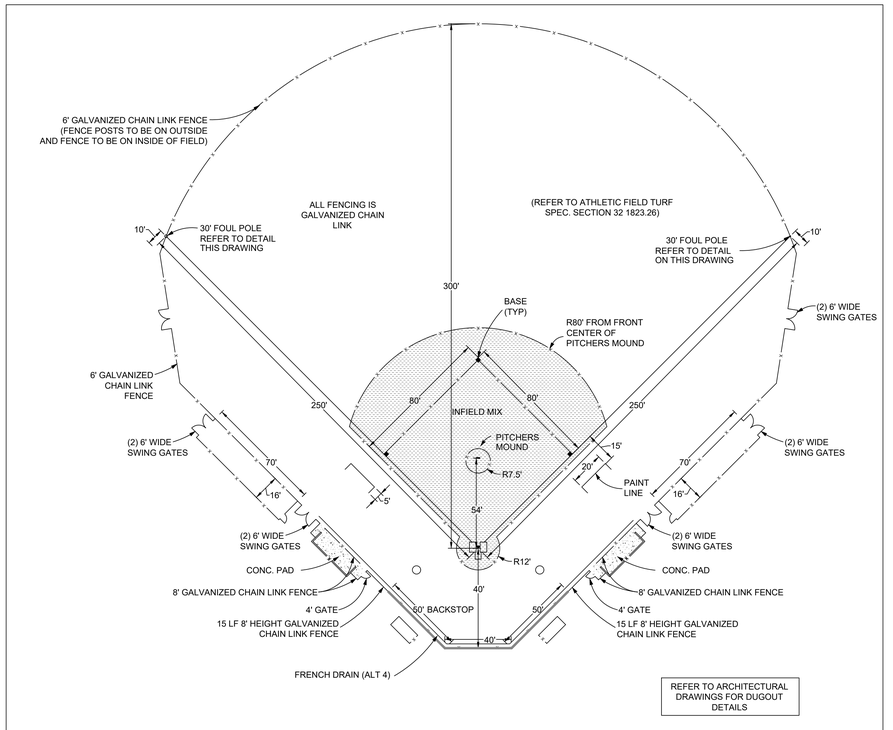
(BASEBALL FIELD)

NO SCALE



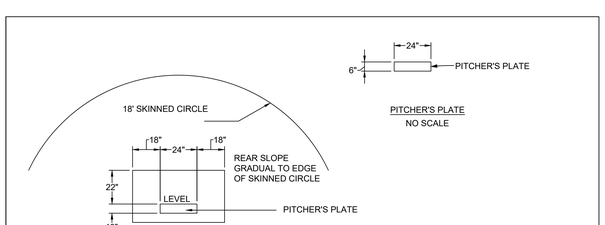
SPORTS FIELD CLEANOUT

NO SCALE



COMPETITION BASEBALL FIELD

NO SCALE

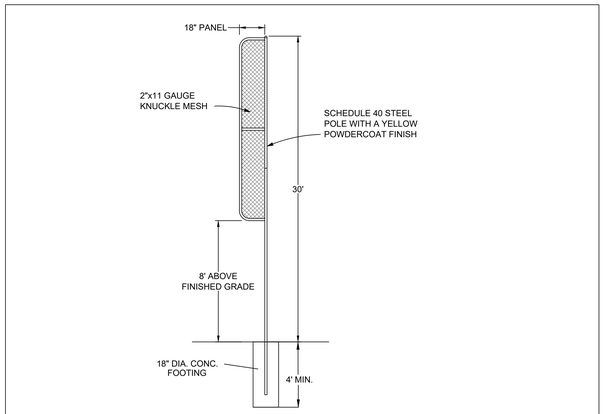


PITCHER'S PLATE

NO SCALE

LAYOUT AT PITCHER'S MOUND

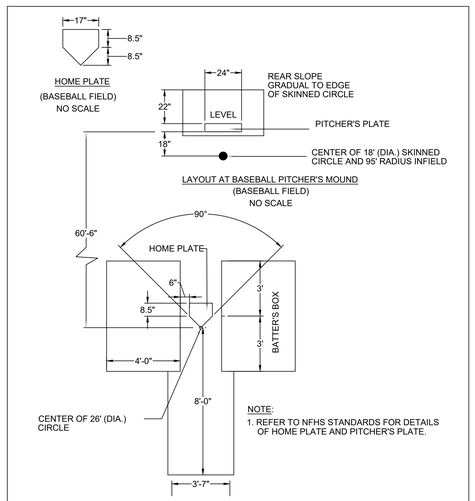
NO SCALE



FOUL BALL POLE

(BASEBALL FIELD)

NO SCALE



BASEBALL LAYOUT AT HOME PLATE

(BASEBALL FIELD)

NO SCALE

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CONSTRUCTION DOCUMENTS

No.	Date	Description
1	12-06-24	NCDOI CD
2	12-13-24	CD REVISIONS
3	12-06-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24

PROJECT #: 63089

DRAWN BY: JG

CHECKED BY: WA

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NOTES AND DETAILS

Harnett County Schools

FLATWOODS MIDDLE SCHOOL

3544 US 401 S
Lillington, NC 27546

ENERGY STAR PARTNER

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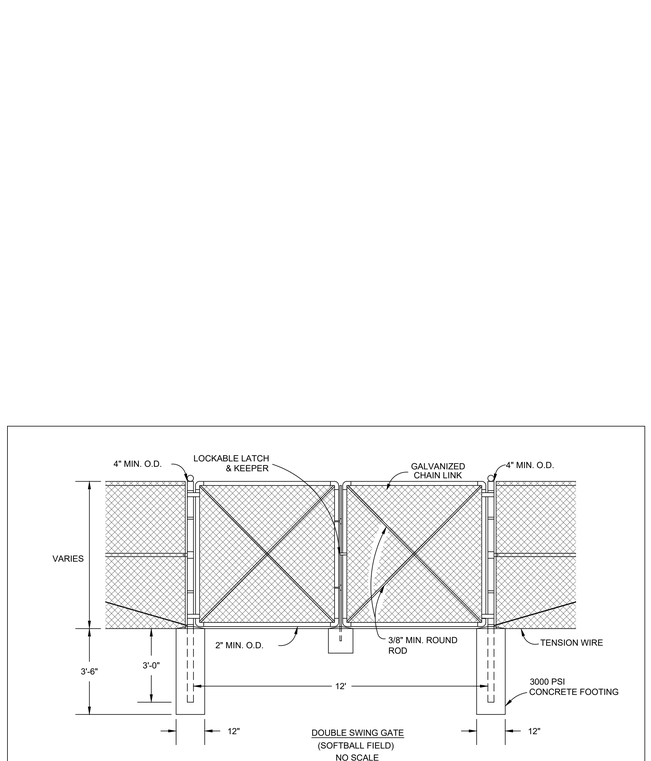
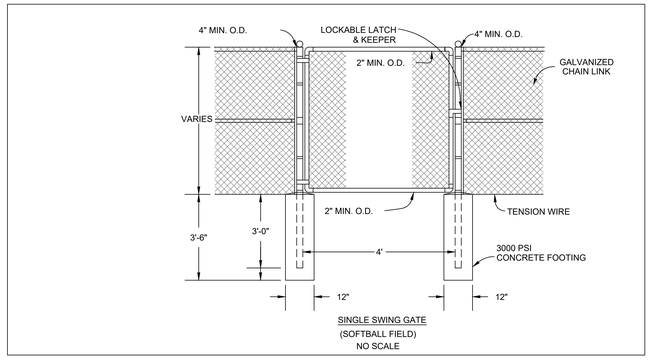
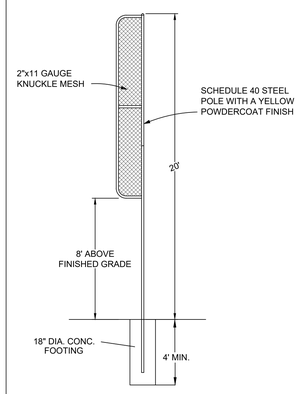


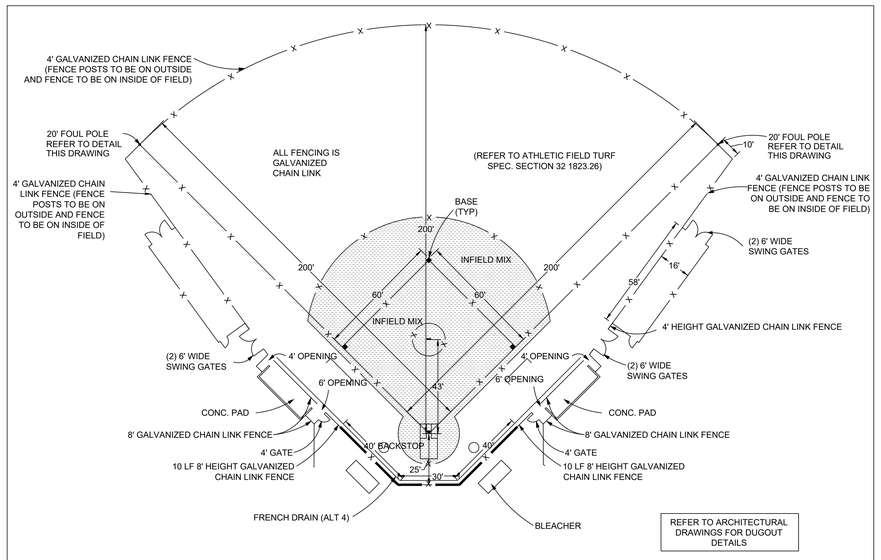
DOUBLE SWING GATE
(SOFTBALL FIELD)
NO SCALE



SINGLE SWING GATE
(SOFTBALL FIELD)
NO SCALE



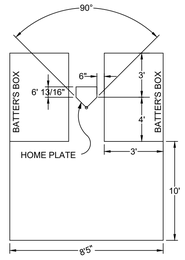
FOUL BALL POLE
(SOFTBALL FIELD)
NO SCALE



COMPETITION SOFTBALL FIELD
NO SCALE

NOTE:

1. REFER TO NFHS STANDARDS FOR DETAILS OF HOME PLATE AND PITCHER'S PLATE.



HOME PLATE
(SOFTBALL FIELD)
NO SCALE

PITCHER'S PLATE
(SOFTBALL FIELD)
NO SCALE

SOFTBALL LAYOUT AT HOME PLATE
(SOFTBALL FIELD)
NO SCALE

[redacted]

NORTH CAROLINA PROFESSIONAL SEAL 045892 ENGINEER William P. Ahrnsen 12-13-24

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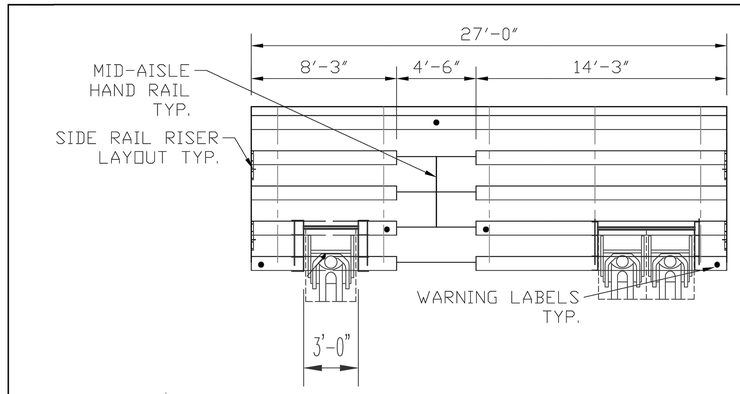
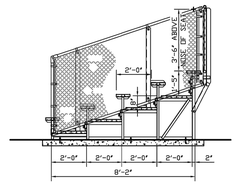
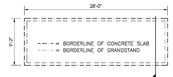




5 ROW NON-ELEVATED

SEATING LAYOUT: 5 ROW
VARSITY BASEBALL & SOFTBALL
SCALE:3/16"=1'-0"



CONCRETE LAYOUT: 5 ROW
VARSITY BASEBALL & SOFTBALL
SCALE:3/16"=1'-0"

Goalline BLEACHER COMPANY
P.O. BOX 1298 — CELINA, TEXAS 75009-1298

PG. ___ LINE ___

5 ROW X 27'-0"

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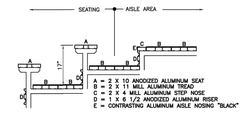


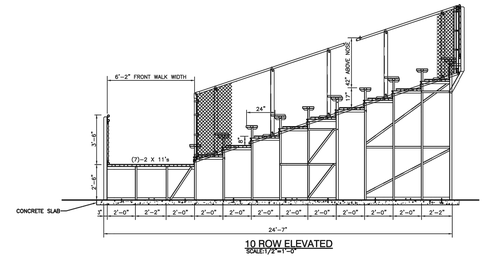
PLANK ARRANGEMENT
1" = 1'-0"
8' X 24"

DESIGN LOADING

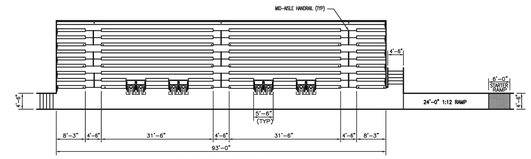
TREAD & SEAT AREA (GROSS AREA) 100psf.
SEAT (PERPENDICULAR SWAY) 10 lbs/ft.
SEAT (PARALLEL SWAY) 24lbs/ft.
HANDRAILS (PERPENDICULAR) 50 lbs/ft.
HANDRAILS (VERTICAL) 100 lbs/ft.
SEAT & TREAD 120 lbs/ft.

NOTES

1. ANODIZED ALUMINUM RAIL IS 1 1/4" NOMINAL PIPE SIZE.



10 ROW ELEVATED
SCALE:1/2"=1'-0"



SEATING LAYOUT
SCALE:1/8"=1'-0"

NOT FOR FABRICATION

Southern BLEACHER COMPANY
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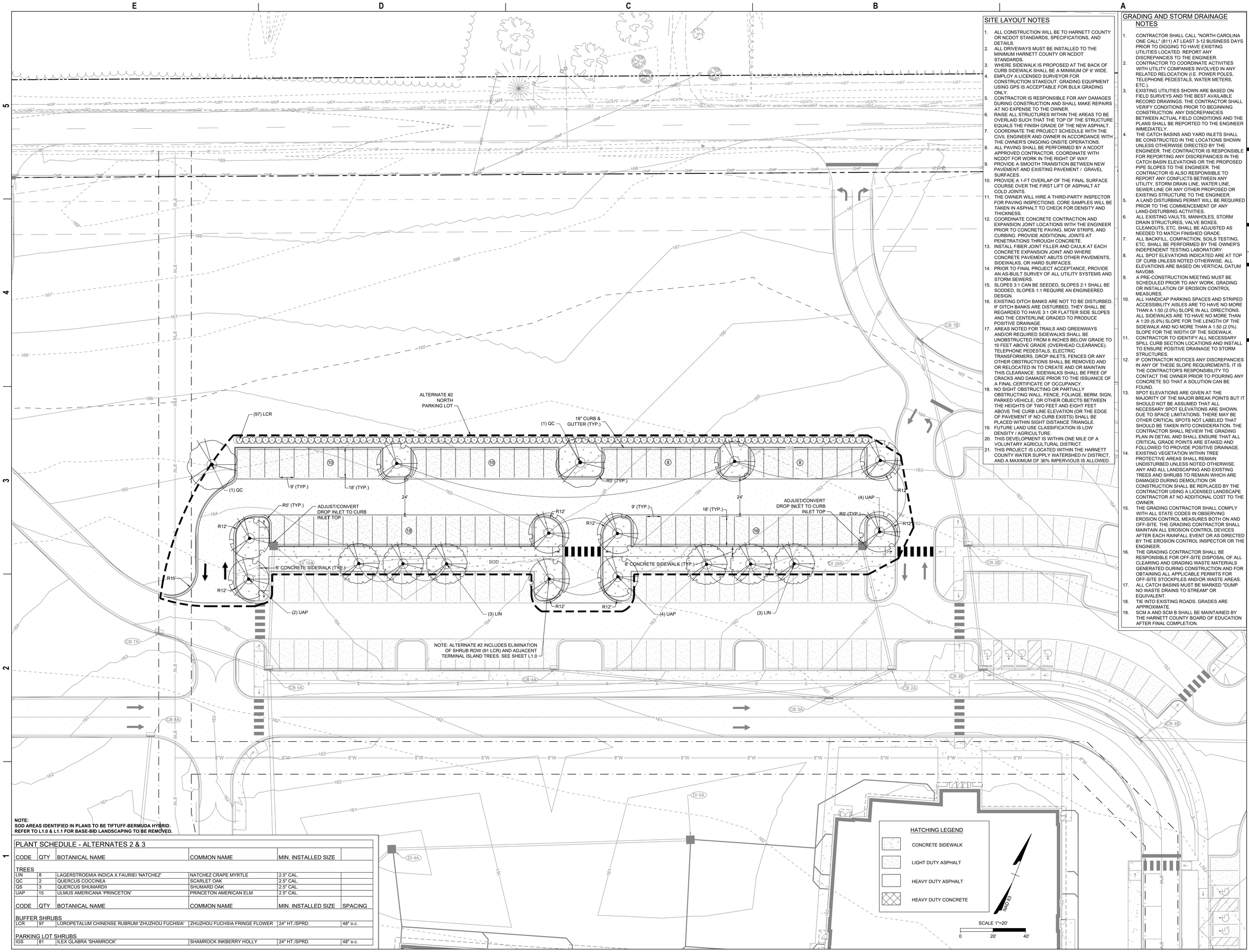
Phone: 940.382.3556 Fax: 940.382.3557
www.southernbleacher.com

PLAN VIEW: 6" RISE X 24" TREAD / 10 ROW
30" ELEVATED ANGLE FRAME BLEACHER

NO.	DESCRIPTION	DATE	BY
1		9/15/09	SRJ

SHEET NO. 1 OF 1

135'-0"
14'-3"
4'-6"
31'-6"
4'-6"
31'-6"
4'-6"
14'-3"
HANDRAILS LABELS TYP.
HEAD RAIL SAND RAIL TYP.
SEE ELEVATION FOR HEIGHT
SEE ELEVATION FOR HEIGHT
SEE ELEVATION FOR HEIGHT



NOTE:
SOD AREAS IDENTIFIED IN PLANS TO BE TIFTUFF-BERMUDA HYBRID.
REFER TO L1.0 & L1.1 FOR BASE-BID LANDSCAPING TO BE REMOVED.

PLANT SCHEDULE - ALTERNATES 2 & 3

CODE	QTY	BOTANICAL NAME	COMMON NAME	MIN. INSTALLED SIZE	
TREES					
LIN	8	LAGERSTROEMIA INDICA X FAURIEI 'NATCHEZ'	NATCHEZ CRAPE MYRTLE	2.5" CAL.	
QC	2	QUERCUS COCCINEA	SCARLET OAK	2.5" CAL.	
QS	3	QUERCUS SHUMARDII	SHUMARD OAK	2.5" CAL.	
UAP	15	ULMUS AMERICANA 'PRINCETON'	PRINCETON AMERICAN ELM	2.5" CAL.	
CODE	QTY	BOTANICAL NAME	COMMON NAME	MIN. INSTALLED SIZE	SPACING
BUFFER SHRUBS					
LCR	97	LOROPETALUM CHINENSE RUBRUM 'ZHUZHOU FUCHSIA'	ZHUZHOU FUCHSIA FRINGE FLOWER	24" HT./SPRD.	48" o.c.
PARKING LOT SHRUBS					
IGS	81	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY HOLLY	24" HT./SPRD.	48" o.c.

SITE LAYOUT NOTES

1. ALL CONSTRUCTION WILL BE TO HARNETT COUNTY OR NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS.
2. ALL DRIVEWAYS MUST BE INSTALLED TO THE MINIMUM HARNETT COUNTY OR NCDOT STANDARDS.
3. WHERE SIDEWALK IS PROPOSED AT THE BACK OF CURB SIDEWALK SHALL BE A MINIMUM OF 6' WIDE.
4. EMPLOY A LICENSED SURVEYOR FOR CONSTRUCTION STAKEOUT. GRADING EQUIPMENT USING GPS IS ACCEPTABLE FOR BULK GRADING ONLY.
5. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
6. RAISE ALL STRUCTURES WITHIN THE AREAS TO BE OVERLAID SUCH THAT THE TOP OF THE STRUCTURE EQUALS THE FINISH GRADE OF THE NEW ASPHALT.
7. COORDINATE THE PROJECT SCHEDULE WITH THE CIVIL ENGINEER AND OWNER IN ACCORDANCE WITH THE OWNER'S ONGOING ONSITE OPERATIONS.
8. ALL PAVING SHALL BE PERFORMED BY A NCDOT APPROVED CONTRACTOR. COORDINATE WITH NCDOT FOR WORK IN THE RIGHT OF WAY.
9. PROVIDE A SMOOTH TRANSITION BETWEEN NEW PAVEMENT AND EXISTING PAVEMENT / GRAVEL SURFACES.
10. PROVIDE A 1-FT OVERLAP OF THE FINAL SURFACE COURSE OVER THE FIRST LIFT OF ASPHALT AT COLD JOINTS.
11. THE OWNER WILL HIRE A THIRD-PARTY INSPECTOR FOR PAVING INSPECTIONS. CORE SAMPLES WILL BE TAKEN IN ASPHALT TO CHECK FOR DENSITY AND THICKNESS.
12. COORDINATE CONCRETE CONTRACTION AND EXPANSION JOINT LOCATIONS WITH THE ENGINEER PRIOR TO CONCRETE PAVING, MOW STRIPS, AND CURBING. PROVIDE ADDITIONAL JOINTS AT PENETRATIONS THROUGH CONCRETE.
13. INSTALL FIBER JOINT FILLER AND CAULK AT EACH CONCRETE EXPANSION JOINT AND WHERE CONCRETE PAVEMENT ABUTS OTHER PAVEMENTS, SIDEWALKS, OR HARD SURFACES.
14. PRIOR TO FINAL PROJECT ACCEPTANCE, PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY SYSTEMS AND STORM SEWERS.
15. SLOPES 3:1 CAN BE SEEDED, SLOPES 2:1 SHALL BE SODDED, SLOPES 1:1 REQUIRE AN ENGINEERED DESIGN.
16. EXISTING DITCH BANKS ARE NOT TO BE DISTURBED. IF DITCH BANKS ARE DISTURBED, THEY SHALL BE REGARDED TO HAVE 3:1 OR FLATTER SIDE SLOPES AND THE CENTERLINE GRADED TO PRODUCE POSITIVE DRAINAGE.
17. AREAS NOTED FOR TRAILS AND GREENWAYS AND/OR REQUIRED SIDEWALKS SHALL BE UNOBSTRUCTED FROM 6 INCHES BELOW GRADE TO 10 FEET ABOVE GRADE (OVERHEAD CLEARANCE). TELEPHONE PEDESTALS, ELECTRIC TRANSFORMERS, DROP INLETS, FENCES OR ANY OTHER OBSTRUCTIONS SHALL BE REMOVED AND OR RELOCATED IN TO CREATE AND OR MAINTAIN THIS CLEARANCE. SIDEWALKS SHALL BE FREE OF CRACKS AND DAMAGE PRIOR TO THE ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY.
18. NO SIGHT OBSTRUCTING OR PARTIALLY OBSTRUCTING WALL, FENCE, FOLIAGE, BERM, SIGN, PARKED VEHICLE, OR OTHER OBJECTS BETWEEN THE HEIGHTS OF TWO FEET AND EIGHT FEET ABOVE THE CURB LINE ELEVATION (OR THE EDGE OF PAVEMENT IF NO CURB EXISTS) SHALL BE PLACED WITHIN SIGHT DISTANCE TRIANGLE.
19. FUTURE LAND USE CLASSIFICATION IS LOW DENSITY / AGRICULTURE.
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NORTH CAROLINA PROFESSIONAL SEAL 045892 ENGINEER William P. Altman 12-13-24

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ENERGY STAR PARTNER

No.	Date	Description
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ISSUE DATE: 11-08-24

PROJECT #: 63089
DRAWN BY: JG
CHECKED BY: WA

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ALTERNATE 2

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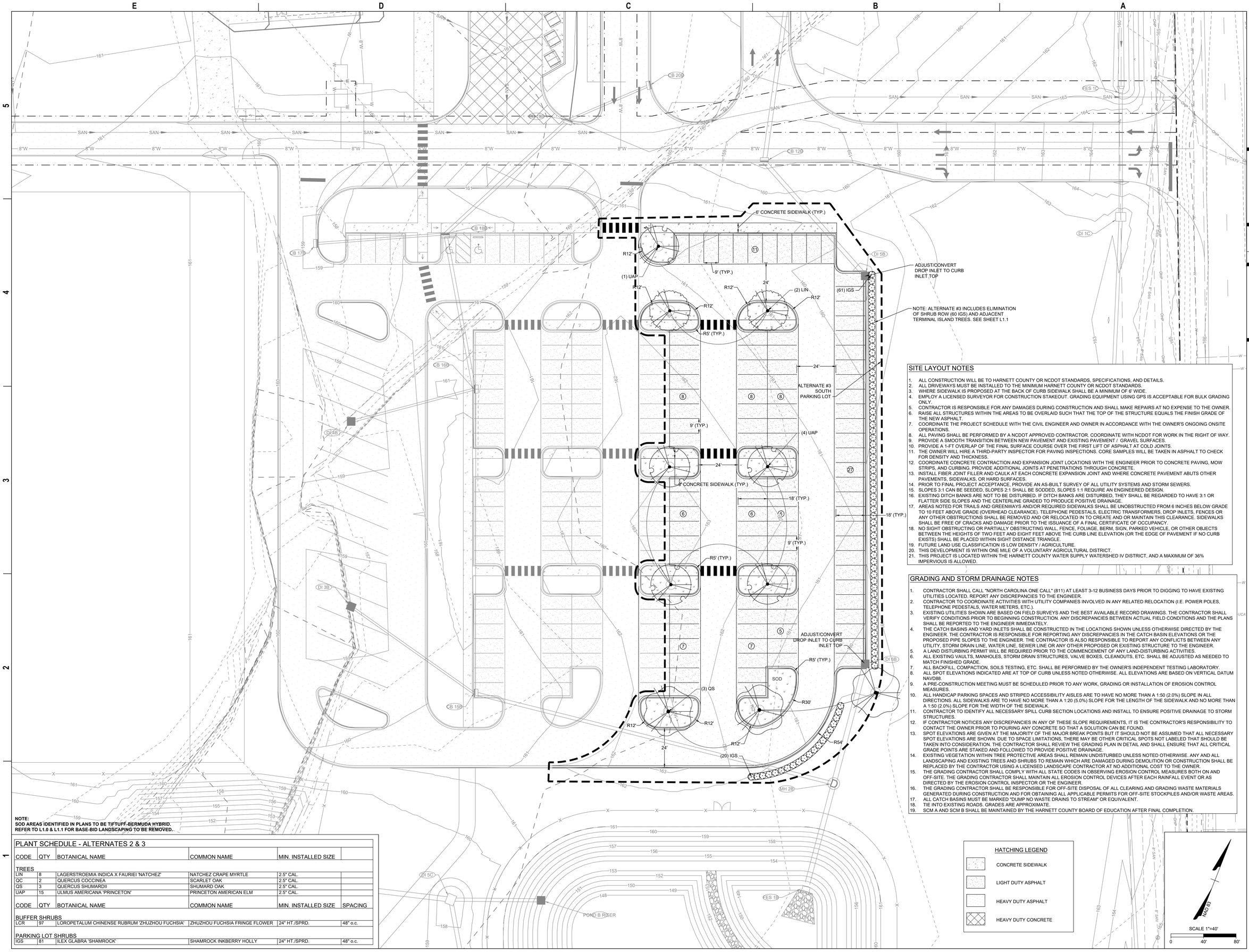

NOTE:
SOD AREAS IDENTIFIED IN PLANS TO BE TIFTUFF-BERMUDA HYBRID.
REFER TO L1.0 & L1.1 FOR BASE-BID LANDSCAPING TO BE REMOVED.

PLANT SCHEDULE - ALTERNATES 2 & 3

CODE	QTY	BOTANICAL NAME	COMMON NAME	MIN. INSTALLED SIZE	
TREES					
LIN	8	LAGERSTROEMIA INDICA X FAURIEI 'NATCHEZ'	NATCHEZ CRAPE MYRTLE	2.5" CAL.	
QC	2	QUERCUS COCCINEA	SCARLET OAK	2.5" CAL.	
QS	3	QUERCUS SHUMARDII	SHUMARD OAK	2.5" CAL.	
UAP	15	ULMUS AMERICANA 'PRINCETON'	PRINCETON AMERICAN ELM	2.5" CAL.	
CODE	QTY	BOTANICAL NAME	COMMON NAME	MIN. INSTALLED SIZE	SPACING
BUFFER SHRUBS					
LCR	97	LOROPETALUM CHINENSE RUBRUM 'ZHUZHOU FUCHSIA'	ZHUZHOU FUCHSIA FRINGE FLOWER	24" HT./SPRD.	48" o.c.
PARKING LOT SHRUBS					
IGS	81	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY HOLLY	24" HT./SPRD.	48" o.c.

SITE LAYOUT NOTES

1. ALL CONSTRUCTION WILL BE TO HARNETT COUNTY OR NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS.
2. ALL DRIVEWAYS MUST BE INSTALLED TO THE MINIMUM HARNETT COUNTY OR NCDOT STANDARDS.
3. WHERE SIDEWALK IS PROPOSED AT THE BACK OF CURB SIDEWALK SHALL BE A MINIMUM OF 6' WIDE.
4. EMPLOY A LICENSED SURVEYOR FOR CONSTRUCTION STAKEOUT. GRADING EQUIPMENT USING GPS IS ACCEPTABLE FOR BULK GRADING ONLY.
5. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
6. RAISE ALL STRUCTURES WITHIN THE AREAS TO BE OVERLAID SUCH THAT THE TOP OF THE STRUCTURE EQUALS THE FINISH GRADE OF THE NEW ASPHALT.
7. COORDINATE THE PROJECT SCHEDULE WITH THE CIVIL ENGINEER AND OWNER IN ACCORDANCE WITH THE OWNER'S ONGOING ONSITE OPERATIONS.
8. ALL PAVING SHALL BE PERFORMED BY A NCDOT APPROVED CONTRACTOR. COORDINATE WITH NCDOT FOR WORK IN THE RIGHT OF WAY.
9. PROVIDE A SMOOTH TRANSITION BETWEEN NEW PAVEMENT AND EXISTING PAVEMENT / GRAVEL SURFACES.
10. PROVIDE A 1-FT OVERLAP OF THE FINAL SURFACE COURSE OVER THE FIRST LIFT OF ASPHALT AT COLD JOINTS.
11. THE OWNER WILL HIRE A THIRD-PARTY INSPECTOR FOR PAVING INSPECTIONS. CORE SAMPLES WILL BE TAKEN IN ASPHALT TO CHECK FOR DENSITY AND THICKNESS.
12. COORDINATE CONCRETE CONTRACTION AND EXPANSION JOINT LOCATIONS WITH THE ENGINEER PRIOR TO CONCRETE PAVING, MOW STRIPS, AND CURBING. PROVIDE ADDITIONAL JOINTS AT PENETRATIONS THROUGH CONCRETE.
13. INSTALL FIBER JOINT FILLER AND CAULK AT EACH CONCRETE EXPANSION JOINT AND WHERE CONCRETE PAVEMENT ABUTS OTHER PAVEMENTS, SIDEWALKS, OR HARD SURFACES.
14. PRIOR TO FINAL PROJECT ACCEPTANCE, PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY SYSTEMS AND STORM SEWERS.
15. SLOPES 3:1 CAN BE SEEDED, SLOPES 2:1 SHALL BE SODDED, SLOPES 1:1 REQUIRE AN ENGINEERED DESIGN.
16. EXISTING DITCH BANKS ARE NOT TO BE DISTURBED. IF DITCH BANKS ARE DISTURBED, THEY SHALL BE REGARDED TO HAVE 3:1 OR FLATTER SIDE SLOPES AND THE CENTERLINE GRADED TO PRODUCE POSITIVE DRAINAGE.
17. AREAS NOTED FOR TRAILS AND GREENWAYS AND/OR REQUIRED SIDEWALKS SHALL BE UNOBSTRUCTED FROM 6 INCHES BELOW GRADE TO 10 FEET ABOVE GRADE (OVERHEAD CLEARANCE). TELEPHONE PEDESTALS, ELECTRIC TRANSFORMERS, DROP INLETS, FENCES OR ANY OTHER OBSTRUCTIONS SHALL BE REMOVED AND OR RELOCATED IN TO CREATE AND OR MAINTAIN THIS CLEARANCE. SIDEWALKS SHALL BE FREE OF CRACKS AND DAMAGE PRIOR TO THE ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY.
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HATCHING LEGEND

- CONCRETE SIDEWALK
- LIGHT DUTY ASPHALT
- HEAVY DUTY ASPHALT
- HEAVY DUTY CONCRETE

MAG N

SCALE 1"=40'
0 40' 80'

[redacted]

NORTH CAROLINA PROFESSIONAL SEAL 045892 ENGINEER William P. Ahmen
12-13-24

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CHECKED BY: WA

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ALTERNATE 3

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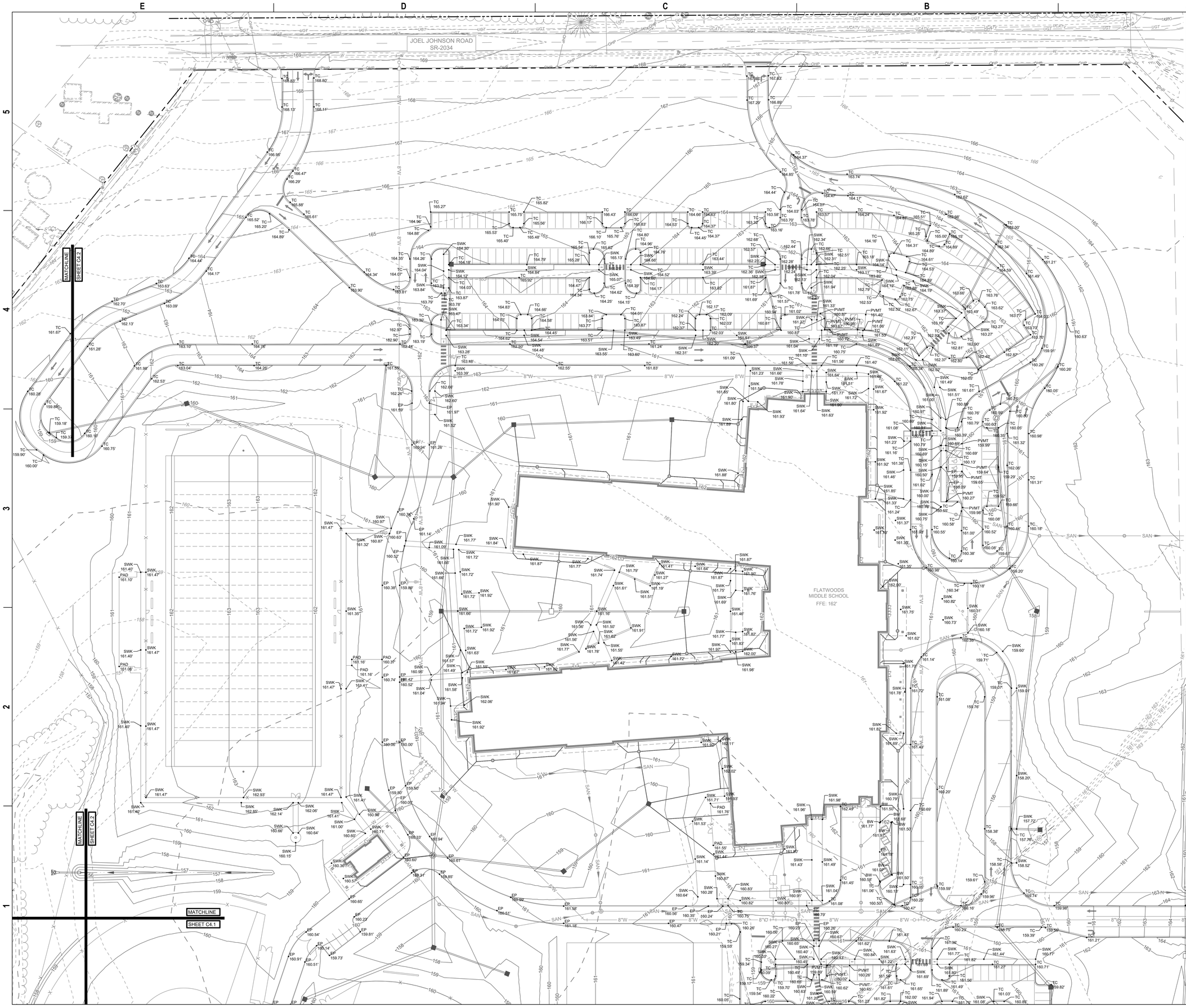

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SPOT GRADING PLAN

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14. EXISTING VEGETATION WITHIN TREE PROTECTIVE AREAS SHALL REMAIN UNDISTURBED UNLESS NOTED OTHERWISE. ANY AND ALL LANDSCAPING AND EXISTING TREES AND SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR USING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
15. THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE. THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY THE EROSION CONTROL INSPECTOR OR THE ENGINEER.
16. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
17. ALL CATCH BASINS MUST BE MARKED "DUMP NO WASTE DRAINS TO STREAM" OR EQUIVALENT.
18. TIE INTO EXISTING ROADS. GRADES ARE APPROXIMATE.
19. SCM A AND SCM B SHALL BE MAINTAINED BY THE HARNETT COUNTY BOARD OF EDUCATION AFTER FINAL COMPLETION.

NAD 83

SCALE 1"=40'

0 40' 80'

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045892 William P. Ahrnen 12-13-24

CONSTRUCTION DOCUMENTS

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Harnett County Schools

FLATWOODS MIDDLE SCHOOL

3544 US 401 S
Lillington, NC 27546

ENERGY STAR PARTNER

No.	Date	Description
1	12-06-24	NCDOT CD
2	12-13-24	CD REVISIONS
3	12-06-24	COUNTY CD REVIEW

ISSUE DATE: 11-08-24

PROJECT #: 63089
DRAWN BY: JG
CHECKED BY: WA

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SPOT GRADING PLAN

C7.1

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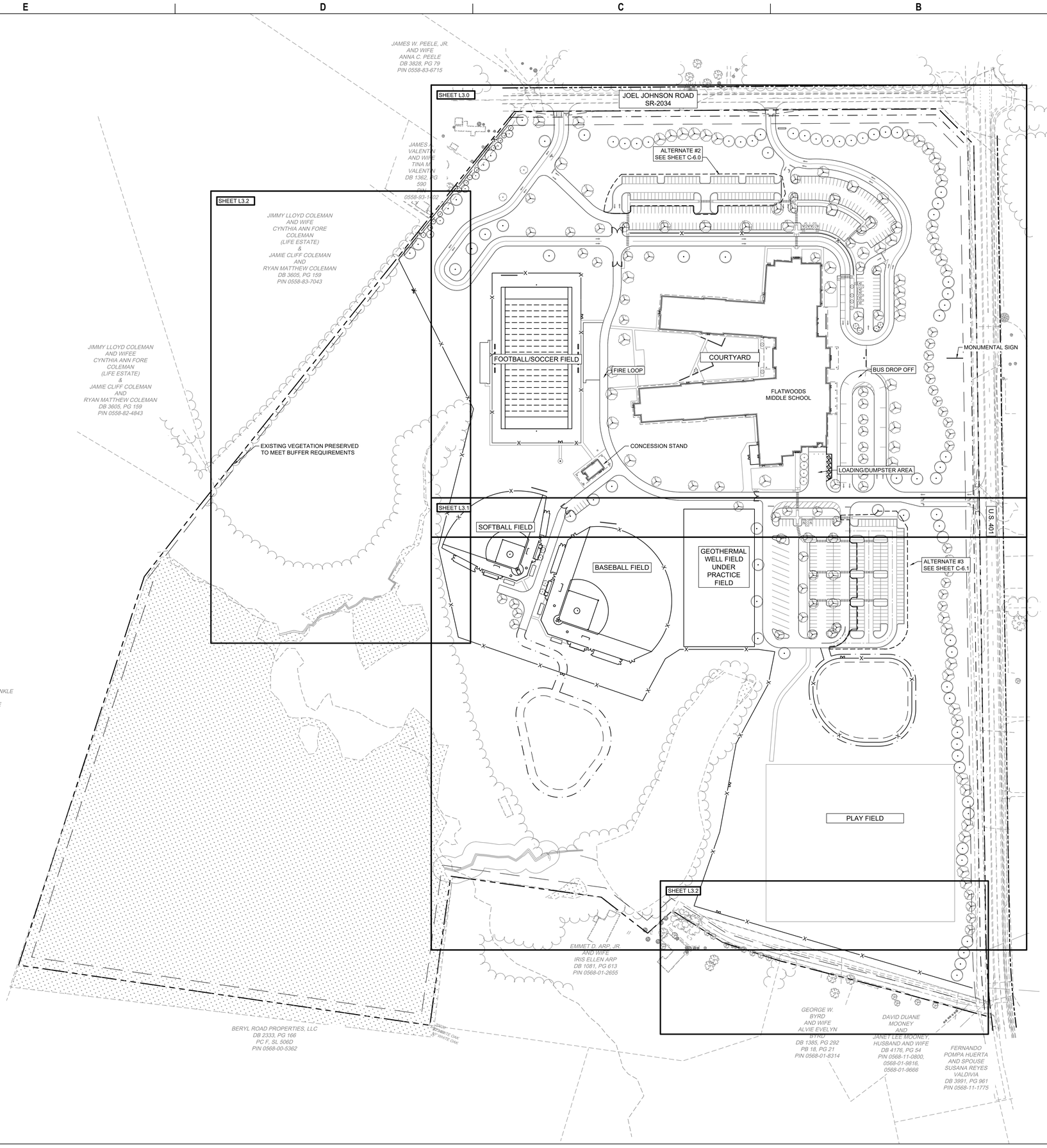

NORTH CAROLINA LICENSED LANDSCAPE ARCHITECT 2069 KEVIN T. BARNES 11/08/24

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ENERGY STAR PARTNER

No.	Date	Description
	11-08-24	CONSTRUCTION DRAWINGS

ISSUE DATE: 11-08-24
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PLANTING KEY PLAN

L0.1

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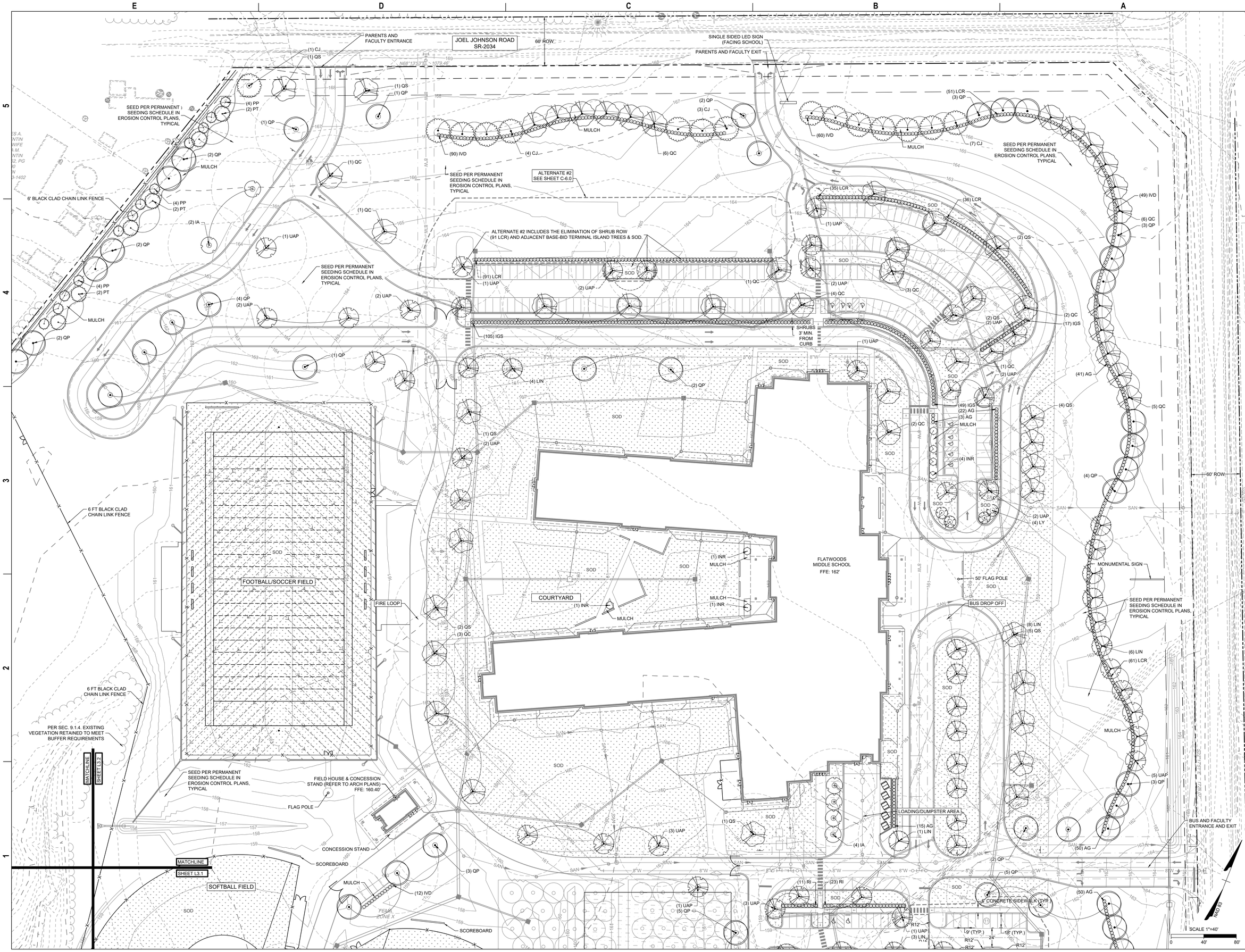

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11/08/24

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Harnett County Schools

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PLANTING PLAN

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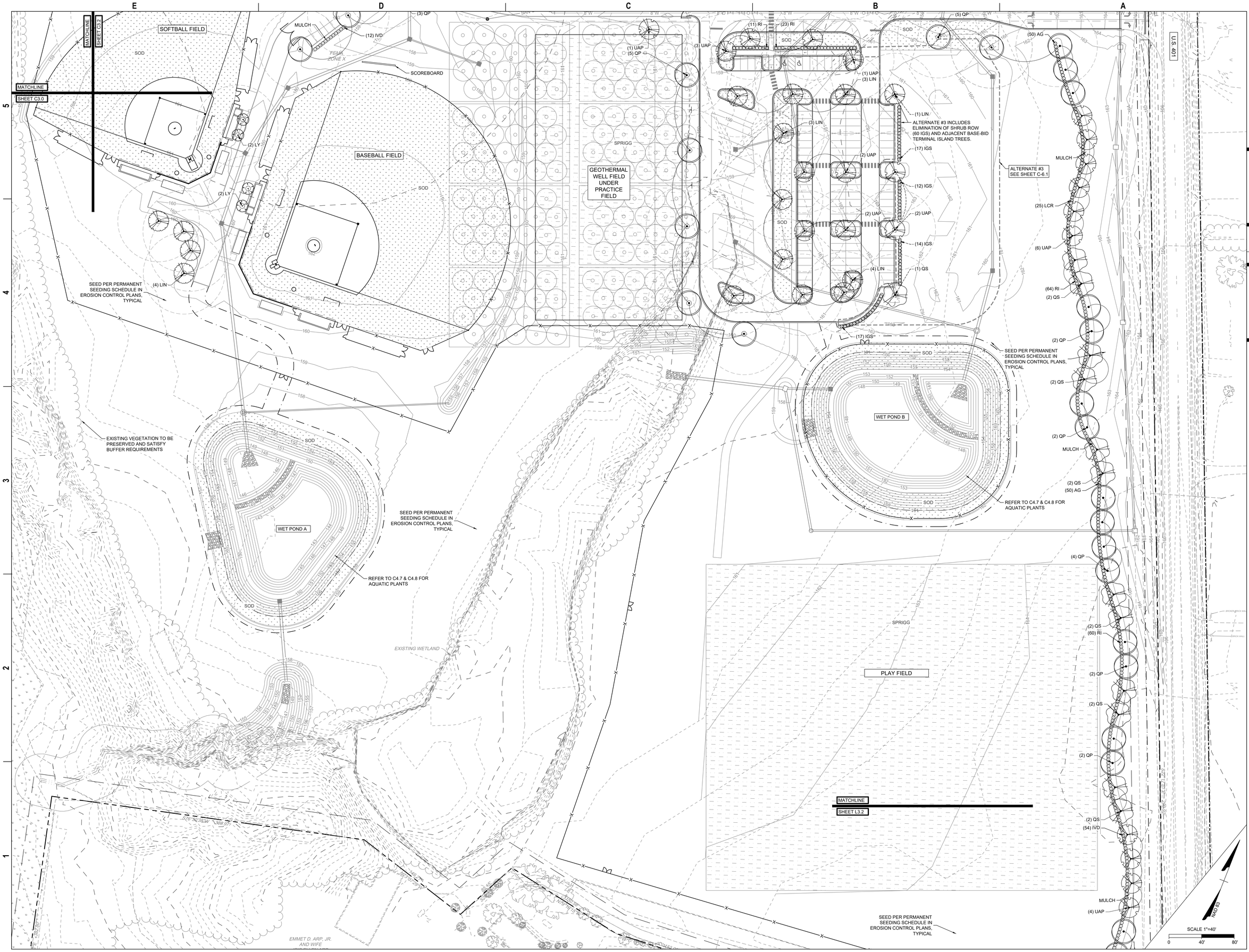

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 2069 KEVIN T. BARNES
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PLANTING PLAN

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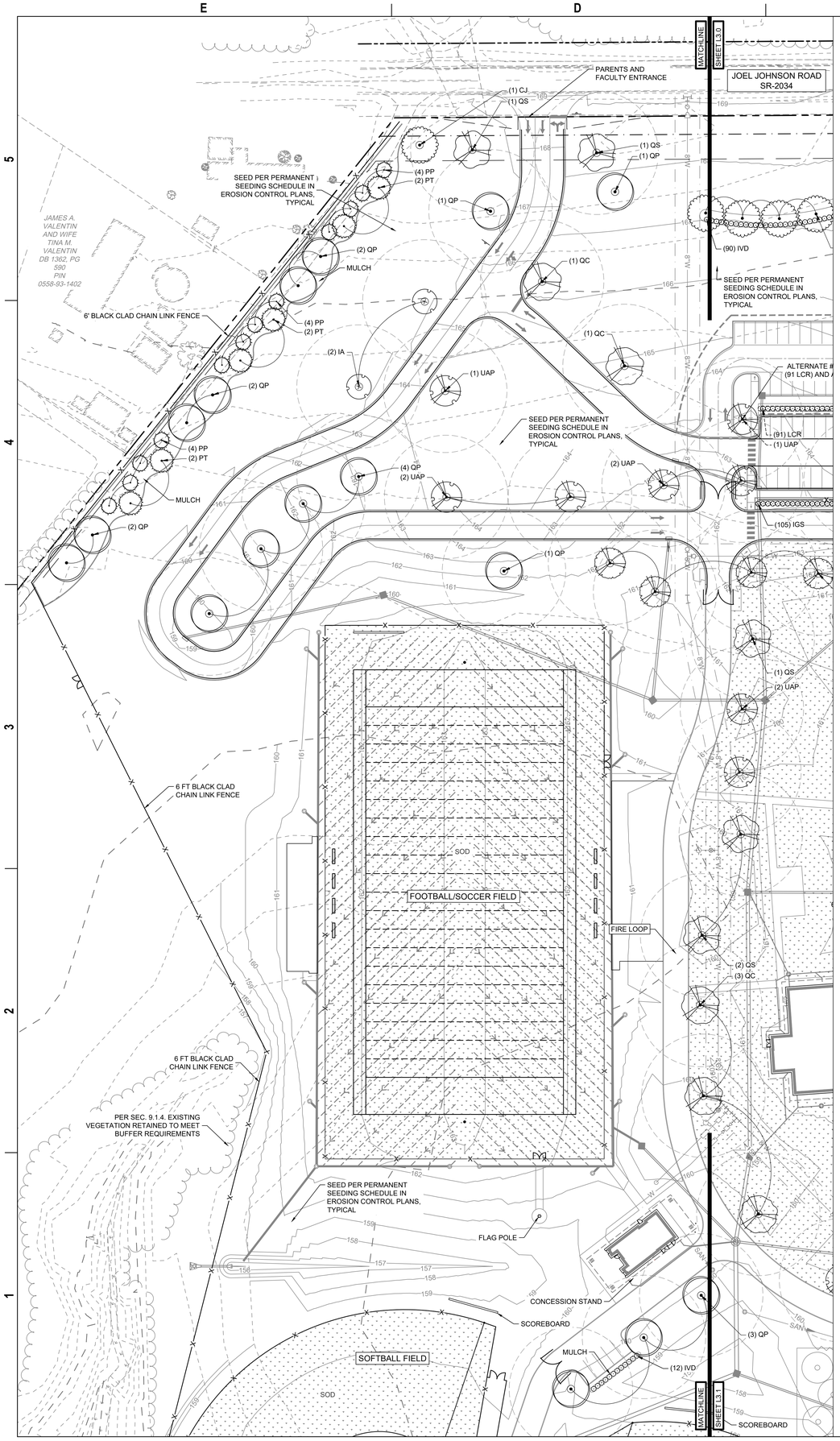

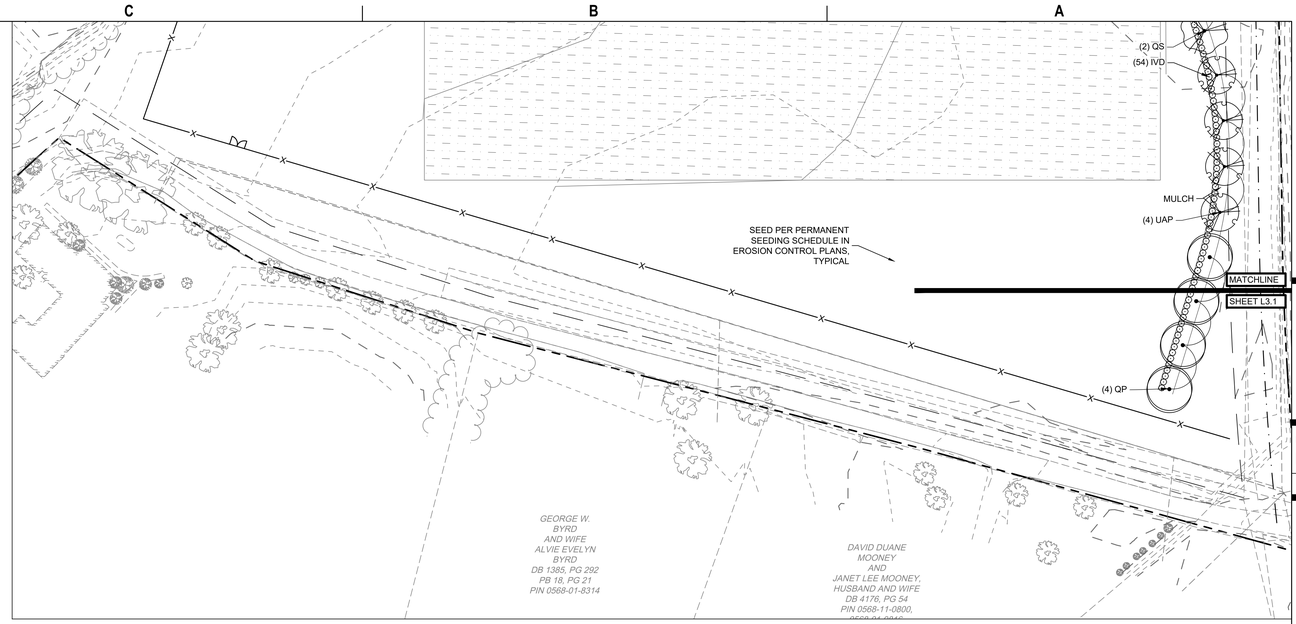

PLANT SCHEDULE					
CODE	QTY	BOTANICAL NAME	COMMON NAME	MIN. INSTALLED SIZE	REMARKS
TREES					
CJ	15	CRYPTOMERIA JAPONICA	JAPANESE CEDAR	2.5" CAL.	FULL TO GROUND, MATCHED
IA	6	ILEX OPACA	AMERICAN HOLLY	2" CAL., 6' HT. MIN.	FULL TO GROUND, MATCHED
INR	7	ILEX X 'NELLIE R. STEVENS'	NELLIE R. STEVENS HOLLY	2" CAL., 6' HT. MIN.	FULL TO GROUND, MATCHED
LY	8	LAGERSTROEMIA INDICA X FAURIEI 'ARAPAHO'	ARAPAHO CRAPE MYRTLE	2.5" CAL.	3-5 STEMS, MATCHED
LIN	34	LAGERSTROEMIA INDICA X FAURIEI 'NATCHEZ'	NATCHEZ CRAPE MYRTLE	2.5" CAL.	SINGLE TRUNK.
PP	12	PINUS PALUSTRIS	LONGLEAF PINE	2.5" CAL.	STRONG CENTRAL LEADER
PT	6	PINUS TAEDA	LOBLOLLY PINE	2.5" CAL.	STRONG CENTRAL LEADER
QC	35	QUERCUS COCCINEA	SCARLET OAK	2.5" CAL.	STRONG CENTRAL LEADER, MATCHED
QP	61	QUERCUS PHELLOS	WILLOW OAK	2.5" CAL.	STRONG CENTRAL LEADER, MATCHED
QS	32	QUERCUS SHUMARDII	SHUMARD OAK	2.5" CAL.	STRONG CENTRAL LEADER, MATCHED
UAP	49	ULMUS AMERICANA 'PRINCETON'	PRINCETON AMERICAN ELM	2.5" CAL.	MATCHED
BUFFER SHRUBS					
LCR	299	LOROPETALUM CHINENSE RUBRUM 'ZHUZHOU FUCHSIA'	ZHUZHOU FUCHSIA FRINGE FLOWER	24" HT./SPRD.	FULL, MATCHED
PARKING LOT SHRUBS					
AG	231	ABELIA X GRANDIFLORA	GLOSSY ABELIA	24" HT./SPRD.	FULL, MATCHED
IGS	231	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY HOLLY	24" HT./SPRD.	FULL, MATCHED
IVD	265	ILEX VOMITORIA 'SCHILLINGS DWARF'	SCHILLINGS DWARF YAUPON HOLLY	24" HT./SPRD.	FULL, MATCHED
RI	158	RHAPHIOLEPIS INDICA	INDIAN HAWTHORN	24" HT./SPRD.	FULL, MATCHED

[redacted]

NORTH CAROLINA
REGISTERED LANDSCAPE ARCHITECT
11/08/24
2069
SEAL
KEVIN T. BARRETT

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ENERGY STAR PARTNER

No.	Date	Description
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ISSUE DATE: 11-08-24
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PLANTING PLAN

NAD 83
SCALE 1"=40'
0 40' 80'

L1.2

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LANDSCAPE CALCULATIONS

VEHICLE USE AREA (VUA) LANDSCAPING (SEC. 3.3.1.B.)

- ENTIRE LENGTH OF PARKING AND VEHICLE CIRCULATION AREAS LOCATED ALONG PUBLIC OR PRIVATE R.O.W. SHALL BE SCREENED.
- THE ENTIRE LENGTH OF PARKING AND VEHICLE CIRCULATION AREAS LOCATED ALONG THE PUBLIC OR PRIVATE RIGHT(S)-OF-WAY SHALL BE SCREENED USING THE FOLLOWING:
  - EVERGREEN VEGETATION WITH A 18" MINIMUM HEIGHT AT INSTALLATION AND MAINTAINED AT 3 FOOT HEIGHT.
  - MINIMUM OF 3 FEET MAINTAINED BETWEEN VEGETATION AND CURB AND/OR WHEELSTOP.
  - SEE PLANT SCHEDULE FOR REMARKS.

VUA PLANTING (SEC. 3.3.3)

- ALL PARKING SPACES WITHIN 50 FT OF A TREE TRUNK.
- ALL CANOPY TREES PLANTED WITH A 2" CALIPER MINIMUM AT INSTALLATION.

BUFFER LANDSCAPING (SEC. 9.1.8.)

LAND USE: GROUP 2 (OFFICE & INSTITUTIONAL)
ADJACENT LAND USE: GROUP 1 (RESIDENTIAL) & GROUP 3 (COMMERCIAL)
REQUIRED BUFFERS: BUFFER TYPES A & C

BUFFER REQUIREMENTS:

- LARGE SHADE TREES @ 30' O.C. MAXIMUM.
- EVERGREEN SHRUBS OR GROUND COVERS.
  - TYPE A: 15' MIN., HEDGE ROW OF EVERGREEN SHRUBS @ 6' HT MIN.
  - TYPE C: 10' MIN., 5 EVERGREEN SHRUBS PER LARGE SHADE TREE.

NOTE:
SPRIGG WITH TIFTUFF GRASS.
SOD AREAS IDENTIFIED IN PLANS TO BE TIFTUFF-BERMUDA HYBRID.

GENERAL NOTES:

PRE-CONSTRUCTION

1. PRIOR TO CONSTRUCTION LOCATE ALL UNDERGROUND UTILITIES WITHIN AND ADJACENT TO THE WORK AREA. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. PROTECT ALL UTILITIES DURING CONSTRUCTION. REPAIR ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF CONSTRUCTION.
2. CONTRACTOR ENGAGED IN LANDSCAPE IMPLEMENTATION SHALL BE A LANDSCAPE CONTRACTOR REGISTERED IN THE STATE OF NORTH CAROLINA.
3. VERIFY ALL PLANT MATERIAL QUANTITIES ON PLANS PRIOR TO BIDDING. PLANT LIST TOTALS ARE FOR CONVENIENCE ONLY AND MUST BE VERIFIED.
4. SUBSTITUTIONS OF PLANT MATERIALS SPECIFIED CAN ONLY OCCUR WITH PRIOR WRITTEN APPROVAL BY LANDSCAPE ARCHITECT.
5. PRIOR TO THE COMMENCEMENT OF ANY ACTIVITIES REQUIRING A BUILDING OR ZONING PERMIT AN ON-SITE PRE-CONSTRUCTION CONFERENCE SHALL TAKE PLACE WITH THE DEVELOPER AND THE ADMINISTRATOR TO REVIEW PROCEDURES FOR THE PROTECTION AND MANAGEMENT OF ALL LANDSCAPE ELEMENTS THAT ARE TO REMAIN AS IDENTIFIED ON THE LANDSCAPE PLAN.
6. ALL PLANT MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION.
7. ANY PLANT MATERIAL WHICH IS DISEASED, DISTRESSED, DEAD, OR REJECTED (PRIOR TO SUBSTANTIAL COMPLETION) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE.
8. PROVIDE PLANT MATERIALS OF QUANTITY, SIZE, GENUS, SPECIES, AND VARIETY INDICATED ON PLANS. ALL PLANT MATERIALS AND INSTALLATION SHALL COMPLY WITH RECOMMENDATIONS AND REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK".
   - 8.1. ALL PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE OF PESTS AND DISEASE.
   - 8.2. ALL PLANT MATERIAL SHALL BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE PLANT LIST.
   - 8.3. ALL TREES SHALL HAVE A STRAIGHT TRUNK AND FULL HEAD.

CONSTRUCTION / INSTALLATION

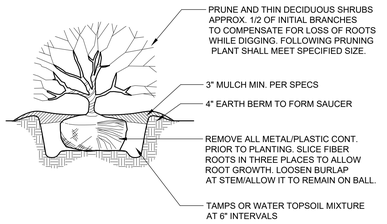
1. CONTRACTOR SHALL TAKE 3 REPRESENTATIVE SOIL SAMPLES OF EACH PROPOSED PLANT BED AND SUBMIT COPIES OF THE RESULTS TO THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR DELIVERY SCHEDULE AND PROTECTION BETWEEN DELIVERY AND PLANTING TO MAINTAIN HEALTHY PLANT CONDITIONS.
3. ALL LANDSCAPED AND LAWN AREAS ARE TO RECEIVE A MINIMUM OF 4" OF TOPSOIL.
4. ALL LANDSCAPE ISLANDS SHALL BE GRADED FOR POSITIVE DRAINAGE WITH NO LOW SPOTS ALLOWING WATER TO BE TRAPPED.
5. INSTALL LANDSCAPE PLANTINGS AT ENTRANCES/EXITS AND PARKING AREAS ACCORDING TO PLANS SO THAT MATERIALS WILL NOT INTERFERE WITH SIGHT DISTANCES.
6. THE SIZE OF THE PLANTING AREA AND SIZE OF PLANT MATERIAL AT MATURITY SHALL ALLOW FOR A 2.5' BUMPER OVERHANG FROM THE BACK OF CURB.
7. ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.
8. AREAS DAMAGED FROM PLANT RELOCATION OR OTHER ACTIVITIES OF LANDSCAPE CONTRACTOR TO BE RESEEDED AND ESTABLISHED AT NO ADDITIONAL COST TO THE OWNER.
9. CONTRACTOR IS RESPONSIBLE FOR WATERING ALL PLANT MATERIAL DURING INSTALLATION AND UNTIL FINAL INSPECTION AND ACCEPTANCE BY OWNER. CONTRACTOR SHALL NOTIFY OWNER OF CONDITIONS WHICH AFFECTS THE GUARANTEE. IT MAY BE NECESSARY TO TRUCK IN NON-CITY WATER TO MEET THE NEEDS OF PLANTS.
10. USE HERBICIDES, PESTICIDES, AND FERTILIZER IN A MANNER CONSISTENT WITH THE FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT AND IN ACCORDANCE WITH LABEL RESTRICTIONS.
11. ALL LAWN AREAS TO BE SEEDED SHALL USE A LOCALLY GROWN COMMERCIAL BERMUDA SEED MIX MEETING LATEST STATE OF NORTH CAROLINA AGRICULTURE STANDARDS FOR SEED AND PLANT CERTIFICATION.
12. SEEDING AND STRAW NOTES FOR LAWN AREAS:
    - 12.1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL TO DEPTH NOTED IN SPECIFICATIONS.
    - 12.2. RIP THE ENTIRE AREA TO DEPTH OF NOT LESS THAN 6".
    - 12.3. REMOVE ALL LOOSE ROCKS, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE SMOOTH AND UNIFORM. DISPOSE OF WASTE MATERIAL OFF-SITE.
    - 12.4. APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPER PHOSPHATE UNIFORMLY AND MIX WITH SOIL. APPLY SOIL AMENDMENTS PER REQUIRED SOIL ANALYSIS RECOMMENDATIONS.
    - 12.5. CONTINUE TILAGE UNTIL A WELL PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED.
    - 12.6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
    - 12.7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
    - 12.8. INSPECT ALL SEEDED AREAS AND IF POSSIBLE, MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON. IF GRAND/SAND SHOULD BE OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER, AND SEEDING RATES.
    - 12.9. ANCHOR TACK WITH LIQUID ASPHALT AT 400 GAL/ACRE OR EMULSIFIED ASPHALT AT 300 GAL/ACRE.
13. BIODEGRADABLE WEED MATTING (ALL-PRO WEED MAT OR APPROVED EQUAL) SHALL BE REQUIRED IN SHRUB BEDS ADJACENT TO BUILDING FACADE.
14. PLANTING BEDS ARE TO BE COMPLETELY COVERED WITH A MINIMUM 4" DEPTH OF BARK MULCH FROM A LOCAL MULCH SOURCE HARVESTED IN A SUSTAINABLE MANNER.
15. MULCH ALL PLANT BEDS AND TREE RINGS WITH FRESH, CLEAN MATERIAL PER SPECIFICATIONS. DO NOT PILE MULCH AROUND THE BASE OF PLANTS OR TREE TRUNKS. ALL MULCH EDGES SHALL BE NEATLY TUCKED. ALL STRING AND/OR BAILING WIRE SHALL BE REMOVED. DUST SHRUBS AND GROUND COVER AFTER MULCHING TO REMOVE LOOSE MATERIAL FROM PLANTS. DO NOT PLACE MULCH IN CONTACT WITH THE TREE TRUNK; KEEP A MINIMUM OF 4 INCHES AWAY FROM THE TRUNK BASE.
16. MULCH AND NO-MOW MIXES SHALL BE REPLENISHED AS NEEDED, ESPECIALLY AFTER HEAVY RAIN EVENTS. IF NO-MOW MIX GERMINATES AT A RATE OF LESS THAN 90%, THEN REMOVE OTHER SPECIES AND RESEED.

TEMPORARY IRRIGATION

1. CONTRACTOR TO PROVIDE AND MAINTAIN TEMPORARY IRRIGATION FOR SOD WITHIN THE STORMWATER CONTROL MEASURE UNTIL SOD BECOMES ESTABLISHED.

INSPECTIONS/GUARANTEE

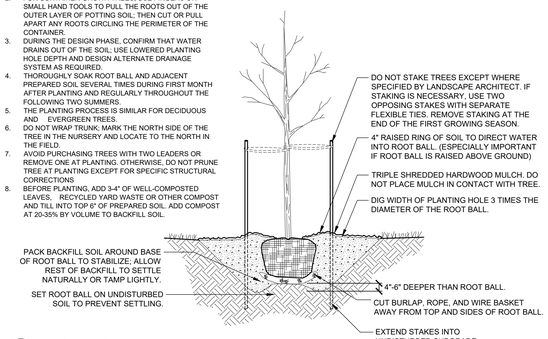
1. LANDSCAPE CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR, UPON COMPLETION OF LANDSCAPE INSTALLATION, WHO WILL VERIFY COMPLETENESS INCLUDING THE REPLACEMENT OF ALL DEAD PLANT MATERIAL. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A FINAL INSPECTION BY THE LANDSCAPE ARCHITECT.
2. PLANT MATERIAL QUANTITIES AND SIZES WILL BE INSPECTED FOR COMPLIANCE WITH APPROVED PLANS BY A SITE PLAN REVIEW AGENT PRIOR TO THE RELEASE OF THE CERTIFICATE OF OCCUPANCY.
3. GUARANTEE ALL EXTERIOR PLANT MATERIALS FOR ONE FULL YEAR AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH. WARRANTY PERIOD SHALL BEGIN UPON CERTIFICATE OF OCCUPANCY OR WHEN THE OWNER TAKES OVER MAINTENANCE, WHICHEVER COMES FIRST.



NOTES:
1. SOIL MIX: 1/3 ORGANIC MATTER, 2/3 EXIST SOIL.
2. WIDTH OF PLANT PIT: SANDY SOIL, 24" WIDER THAN PLANT BALL; CLAY SOIL, 12" WIDER THAN PLANT BALL
3. FOR PLANTING AREAS WHERE SOIL HAS BEEN COM-PACTED BY EQUIP. CONTACT LA PRIOR TO PLANTING.
4. FOR CAMELLIAS, RHODOS, AZALEAS, AND LAURELS: SOIL MIX, 2/3 ORGANIC AND 1/3 EXISTING SOIL
5. SHRUB SHALL BEAR SAME RELATIONSHIP TO GRADE AS IT DID PRIOR TO DIGGING.

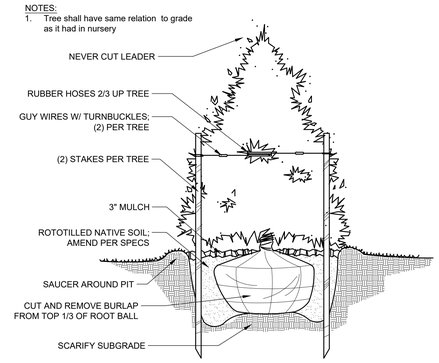
2 SHRUB PLANTING
NTS

NOTES:
1. WHERE SEVERAL TREES WILL BE PLANTED CLOSE TOGETHER, PLANT SO THAT THEY WILL LIKELY SHARE ROOT SPACE. TILL IN SOIL AMENDMENTS TO A DEPTH OF 4-6" (10-15CM) OVER THE ENTIRE AREA.
2. FOR CONTAINER-GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
3. DURING THE DESIGN PHASE, CONFIRM THAT WATER DRAINS OUT OF THE SOIL; USE LOWERED PLANTING HOLE DEPTH AND DESIGN ALTERNATE DRAINAGE SYSTEM AS REQUIRED.
4. THOROUGHLY SOAK ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
5. THE PLANTING PROCESS IS SIMILAR FOR DECIDUOUS AND EVERGREEN TREES.
6. DO NOT WRAP TRUNK; MARK THE NORTH SIDE OF THE TREE IN THE NURSERY AND LOCATE TO THE NORTH IN THE FIELD.
7. AVOID PURCHASING TREES WITH TWO LEADERS OR REMOVE ONE AT PLANTING. OTHERWISE, DO NOT PRUNE TREE AT PLANTING EXCEPT FOR SPECIFIC STRUCTURAL CORRECTIONS
8. BEFORE PLANTING, ADD 3-4" OF WELL-COMPOSTED LEAVES, RECYCLED YARD WASTE OR OTHER COMPOST AND TILL INTO TOP 6" OF PREPARED SOIL. ADD COMPOST AT 20-35% BY VOLUME TO BACKFILL SOIL.

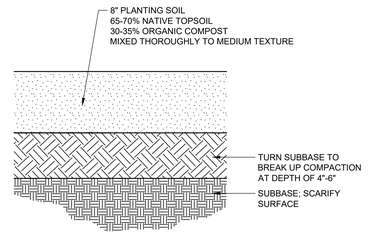


4 TREE PLANTING
NTS

NOTES:
1. Tree shall have same relation to grade as it had in nursery

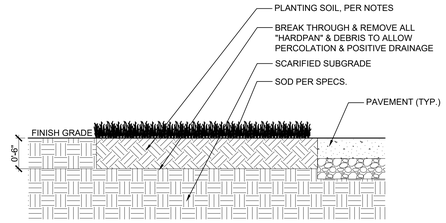


1 EVERGREEN PLANTING
NTS



NOTES:
1. All material to be free of toxic substances, weed seed, stones, sticks or other material harmful to plant growth. Topsoil: ph range of 6.0 to 7.0, min. 6% organic matter.
2. Compost: well-composted, stable, weed-free organic matter, ph range of 5.5 to 8.
3. Submit soil sample for analysis ... provide amendments per recommendations.
4. Remove any debris, rocks, or clumps 2" or larger.
5. Do not spread if planting soil, topsoil or subgrade is frozen, muddy, or excessively wet.

3 PLANTING BEDS SOIL PROFILE
NTS



NOTES:
1. All sod shall be from a certified grower and be 99% weed free.
2. The sod shall not be shipped until the site is substantially prepared. It shall be stored and maintained in accordance with the American Nursery Association.
3. The general contractor will provide grades to within an inch of proposed final grades.
4. Planting soil to a minimum depth of 6" (4" uncompacted in situ soil and 2" soil conditioner, such as pine fines or organic compost, thoroughly mixed; or 6" native topsoil), hand-rake smooth.
5. Add additives (per soil test analysis) & blend.
6. Water area to be sodded prior to laying sod.
7. Lay & roll sod, ensuring no gaps; stagger seams; water thoroughly.

5 SOD INSTALLATION DETAIL
1" = 1'-0"

811 KNOW WHAT'S BELOW. CALL 811 BEFORE YOU DIG.

SCALE 1"=40'
0 40' 80'

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 11/08/24 2069 KEVIN T. BRYANT

CONSTRUCTION DOCUMENTS

TIMMONS GROUP
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TEL 919.866.4951
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Site Development | Residential | Infrastructure | Technology
830081.222

Harnett County Schools

FLATWOODS MIDDLE SCHOOL

US 401 S
Lillington, NC 27546

ENERGY STAR PARTNER

No.	Date	Description
	11-08-24	CONSTRUCTION DRAWINGS

ISSUE DATE: 11-08-24
PROJECT #: 63089
DRAWN BY: JM
CHECKED BY: KB

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LANDSCAPE NOTES AND DETAILS

L1.3

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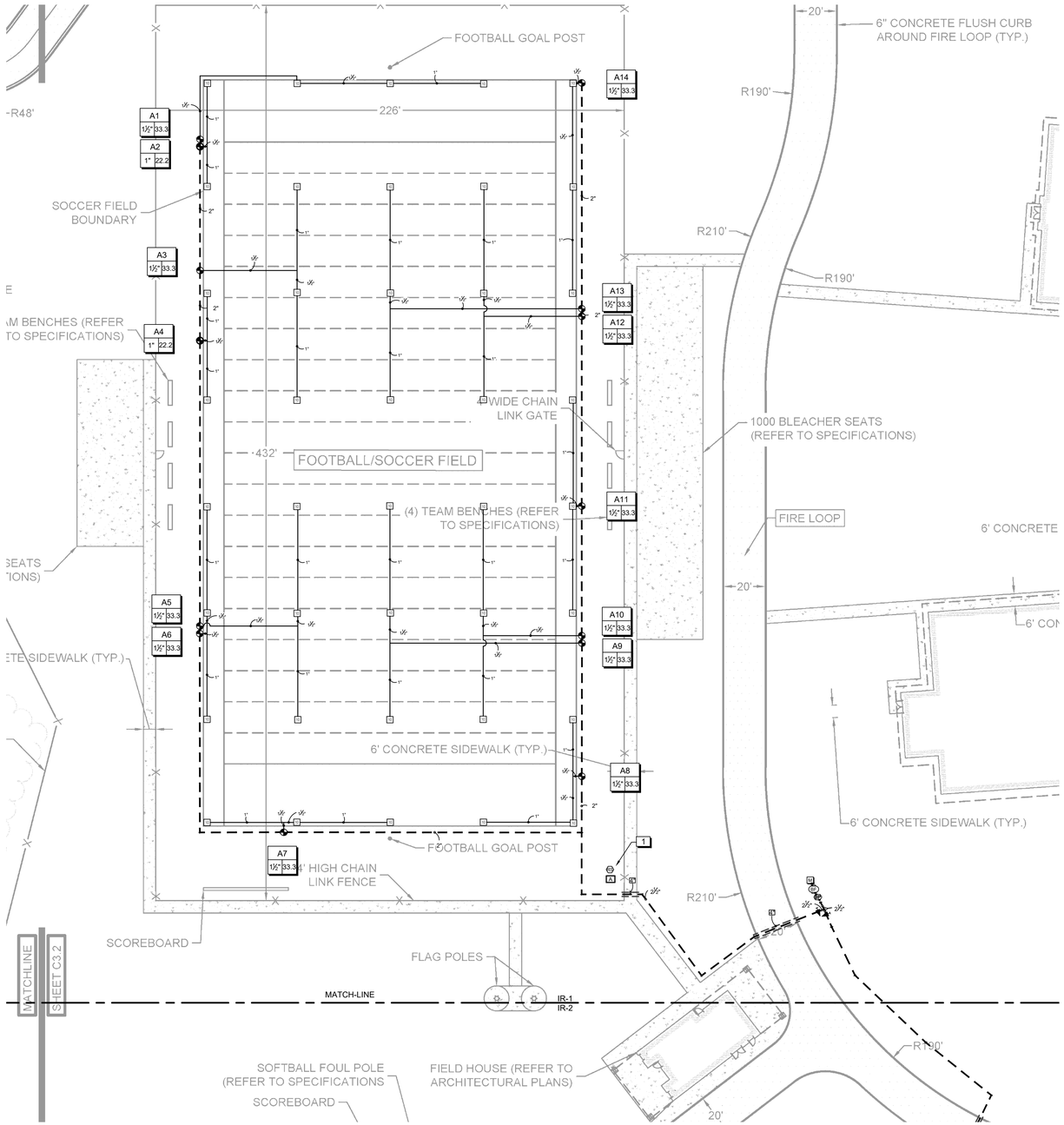

IRRIGATION SCHEDULE	
SYMBOL	MANUFACTURER/MODEL
M A B	HUNTER MP1000 PROS-06-PRS-40-CV ROTATOR
ADJ. 360	HUNTER MP800SR PROS-06-PRS-40-CV ROTATOR
SYMBOL	MANUFACTURER/MODEL
10	HUNTER I-25-04 ROTOR 10
1.5	HUNTER PGP-04 ROTOR 1.5
3.0	HUNTER PGP-04 ROTOR 3.0
2.0	HUNTER PGP-04-LA ROTOR 2.0
2.5	HUNTER PGP-04-LA ROTOR 2.5
SYMBOL	MANUFACTURER/MODEL
	TORO P220-26-0 GLOBE ELECTRIC VALVE 1"
	TORO P220-26-0 GLOBE ELECTRIC VALVE 1-1/2"
	TORO 100-SLSC QUICK COUPLER VALVE 1"
	SLIP BALL VALVE (MAINLINE SIZE)
BF	RPZ BY OTHERS 2"
A	IRRITROL TC-24EX-R CONTROLLER IN METAL ENCLOSURE
B	IRRITROL TC-48EX-R CONTROLLER IN METAL ENCLOSURE
RS	HUNTER MINI-CLIK RAIN SENSOR
BP	BOOSTER PUMP (MODEL TBD BASED ON PSI REQUIREMENTS)
M	WATER METER 2"
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 1"
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 1 1/2"
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 2"
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 2"
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 2 1/2"
	PIPE SLEEVE: PVC SCHEDULE 40 4"

Valve Callout

IRRIGATION NOTES

1. IRRIGATION SYSTEM DESIGN BASED ON 80 GPM AT 104 PSI.
2. IRRIGATION DESIGN IS FROM THE POINT OF CONNECTION(POC)ONLY. THE DESIGN IS BASED ON GALLONS PER MINUTE(GPM)AND POUNDS PER SQUARE INCH(PSI)FURNISHED BY OTHERS.
3. IRRIGATION CONTRACTOR IS TO VERIFY POINT OF CONNECTION IN THE FIELD. INSTALLER IS TO CONFIRM THE MINIMUM DISCHARGE REQUIREMENTS OF THE POINT OF CONNECTION AS INDICATED ON THE LEGEND PRIOR TO INSTALLATION.
4. THE PRESSURE REQUIREMENT AT THE POINT OF CONNECTION IS BASED ON NO MORE THAN 5-FEET OF ELEVATION CHANGE IN THE AREAS OF IRRIGATION.
5. ALL PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ACCORDING TO LOCAL BUILDING, ELECTRICAL AND PLUMBING CODES.
6. IRRIGATION CONTRACTOR WILL ARRANGE INSPECTIONS REQUIRED BY LOCAL AGENCIES AND ORDINANCES DURING THE COURSE OF CONSTRUCTION AS REQUIRED. ALL WIRING TO BE PER LOCAL CODE. BACKFLOW PREVENTION PER LOCAL CODE.
7. LOCATION OF IRRIGATION COMPONENTS SHOWN ON DRAWINGS IS APPROXIMATE. ACTUAL PLACEMENT MAY VARY SLIGHTLY AS REQUIRED TO ACHIEVE FULL, EVEN COVERAGE.
8. ALL SPRINKLER HEADS SHALL BE INSTALLED PERPENDICULAR TO FINISH GRADES, EXCEPT AS OTHERWISE INDICATED.
9. INSTALL IRRIGATION MAINS WITH A MINIMUM 18" OF COVER BASED ON FINISH GRADES. INSTALL IRRIGATION LATERAL WITH A MINIMUM 12" OF COVER BASED ON FINISH GRADES.
10. PIPE LOCATIONS ARE DIAGRAMATIC. VALVES AND MAINLINE SHOWN IN PAVED AREAS ARE FOR GRAPHIC CLARITY ONLY.
11. THE IRRIGATION CONTRACTOR SHALL COMPLY WITH PIPE SIZES AS INDICATED.
12. ALL WIRE SPLICES OR CONNECTIONS SHALL BE MADE WITH APPROVED WATERPROOF WIRE CONNECTORS AND BE IN A VALVE OR SPLICE BOX.
13. ALL CONTROL WIRING DOWNSTREAM OF THE CONTROLLER IS TO BE 14 AWG, UL APPROVED DIRECT BURY.
14. THE DESIGN IS BASED ON THE SITE INFORMATION AND/OR DRAWING SUPPLIED WITH THE DESIGN CRITERIA BEING SET(AREA TO BE IRRIGATED, EQUIPMENT MANUFACTURER AND MODEL TO BE USED, WATER SOURCE INFORMATION, ELECTRICAL POWER AVAILABILITY, ETC...). SITEONE LANDSCAPE SUPPLY BEARS NO RESPONSIBILITY OR LIABILITY FOR ANY ERRORS IN DESIGN OR INSTALLATION THAT ARISE DUE TO INACCURACIES IN THE ABOVE REFERENCED INFORMATION SUPPLIED TO SITEONE LANDSCAPE SUPPLY IN RELATION TO THIS PROJECT, UNLESS OTHERWISE NOTED.
15. THE INSTALLING CONTRACTOR MUST HOLD A CURRENT, VALID NC IRRIGATION CONTRACTOR'S LICENSE.

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SCALE 1" = 30'
0' 15' 30' 60'

SiteOne™ Project Services
www.projectservices.siteone.com

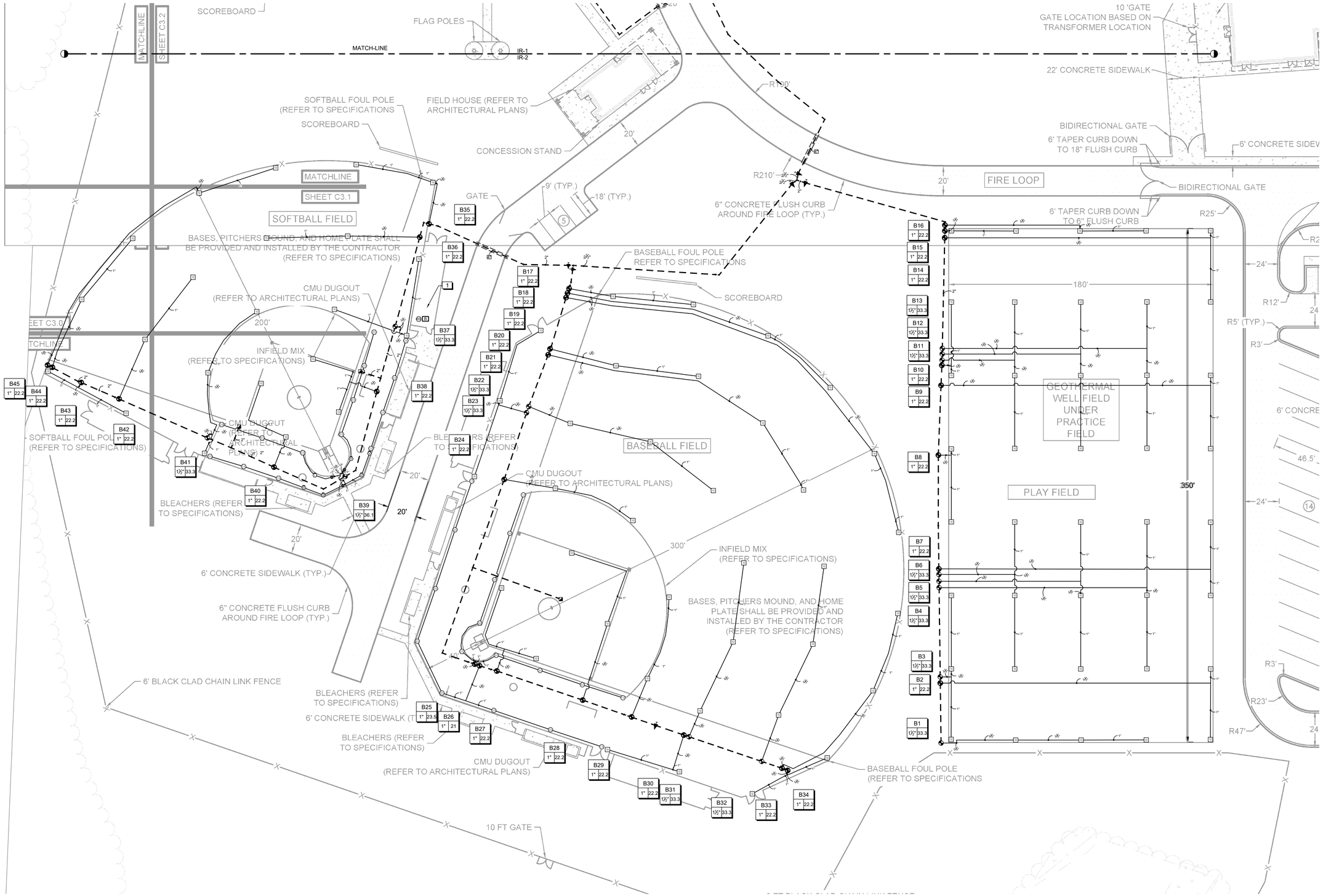
PROJECT NAME
FLATWOODS MIDDLE SCHOOL
LILLINGTON, NC 27546

Project Title
IRRIGATION PLAN

Project Number:	369816
Design Date:	08/09/2024
Drawn By:	CLC
Checked By:	
Drawing Scale:	1" = 30'

Revisions	Date
1.	08/29/2024
2.	10/15/2024
3.	
4.	
5.	
6.	
7.	
8.	

Sheet Number:
IR-1
Sheet: 1 OF 3



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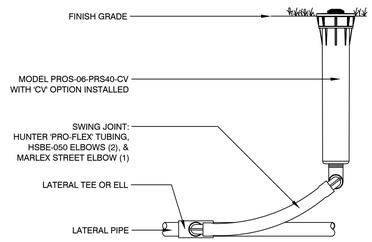
4.	
5.	
6.	
7.	
8.	

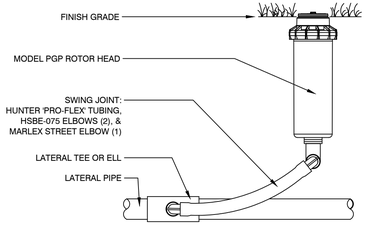
Sheet Number:
IR-2
Sheet: 2 OF 3

*When using larger GPM nozzles, beware of high friction loss in swing joints.



1 PROS-06-PRS40-CV MP ROTATOR SPRINKLER

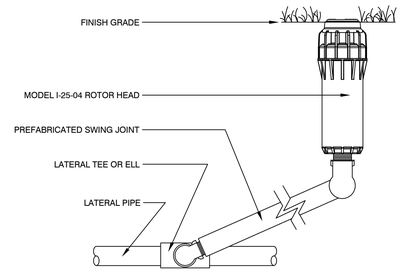
S1-RO1-HUN-02



OPTIONS:
☐ R = FACTORY INSTALLED RECLAIMED RUBBER COVER
☐ CV = FACTORY INSTALLED DRAIN CHECK VALVE

2 PGP ROTOR HEAD WITH PRO-FLEX TUBING

NTS S1-RO-HUN-01



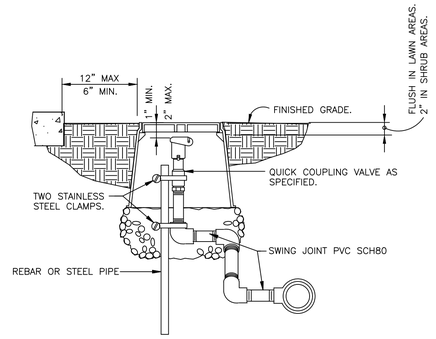
OPTIONS:
☐ R = FACTORY INSTALLED RECLAIMED RUBBER COVER
☐ SS = STAINLESS STEEL RISER
☐ HS = HIGH SPEED VERSION

3 I-25-04 ROTOR HEAD

NTS S1-RO-HUN-07

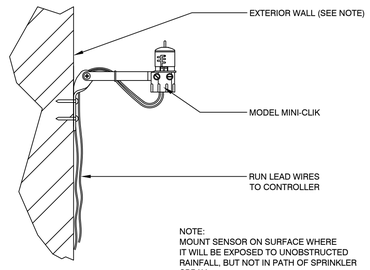
Hunter®

INSTALLATION MAY DIFFER PER LOCAL CODE



4 QUICK COUPLING VALVE IN BOX

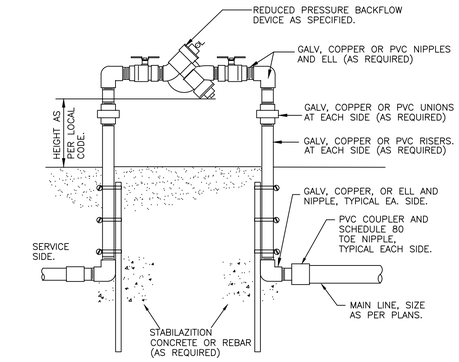
S1-QU-01



NOTE:
MOUNT SENSOR ON SURFACE WHERE IT WILL BE EXPOSED TO UNOBSTRUCTED RAINFALL, BUT NOT IN PATH OF SPRINKLER SPRAY.

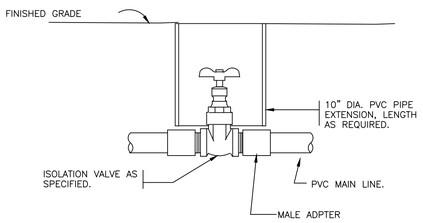
5 MINI-CLIK

3" = 1'-0" FX-IR-HUNT-SENS-13



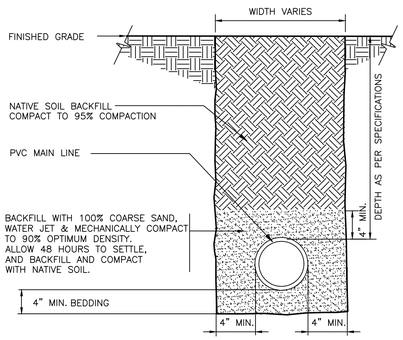
6 REDUCED PRESSURE BACKFLOW DEVICE STANDARD

S1-BA-01



7 ISOLATION GATE VALVE

S1-MI-02



8 SLEEVE AT ROAD

S1-MI-01

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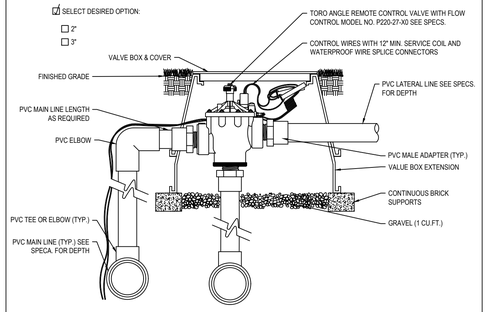
TORO COMPANY - IRRIGATION DIVISION
5825 JASMINE ST.
RIVERSIDE, CA 92504
TOLL FREE: 1-877-345-8676
PHONE: (951) 785-3152
FAX: (951) 359-1870
www.toro.com



SECTION

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
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5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER FLATWOODS MIDDLE SCHOOL-369816

VALVES
P-220 & P-220S SERIES - 2" AND 3" PLASTIC ELECTRIC VALVE

FLATWOODS MIDDLE SCHOOL-369816 REVISION DATE 10/15/2024

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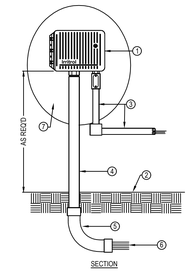
IRRITROL SYSTEMS
5825 JASMINE ST.
RIVERSIDE, CA 92504
TOLL FREE: 1-800-634-8873
PHONE: (951) 785-3454
www.irritrol.com



SECTION

LEGEND:
1. IRRITROL TC-EX TOTAL CONTROL SERIES AUTOMATIC SPRINKLER CONTROLLER (EXTERIOR WALL MOUNT).
2. FINISH GRADE.
3. 1/2" UL APPROVED ELECTRICAL CONDUIT, RING NUT AND JUNCTION BOX FOR 120V AC ELECTRICAL POWER.
4. PVC SCHEDULE 40 CONTROL WIRE CONDUIT (SIZE AS REQUIRED).
5. PVC SWEEP ELL (DEPTH AS REQUIRED).
6. CONTROL WIRES TO ELECTRIC VALVES.
7. EXTERIOR SURFACE FOR MOUNTING OF SPRINKLER CONTROLLER.

NOTES:
1. ALL ELECTRICAL WORK MUST CONFORM TO LOCAL CODES. REFER TO PRODUCT LITERATURE FOR ADDITIONAL INSTALLATION REQUIREMENTS.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
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6. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 743-010.

CONTROLLERS
TOTAL CONTROL SERIES: OUTDOOR

743-010 REVISION DATE 06/17/2015

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PROJECT NAME
FLATWOODS MIDDLE SCHOOL
LILLINGTON, NC 27546

Project Title
DETAIL SHEET

Project Number:	369816
Design Date:	08/09/2024
Drawn By:	CLC
Checked By:	
Drawing Scale:	N.T.S

Revisions	Date
1.	08/29/2024
2.	10/15/2024
3.	
4.	
5.	
6.	
7.	
8.	

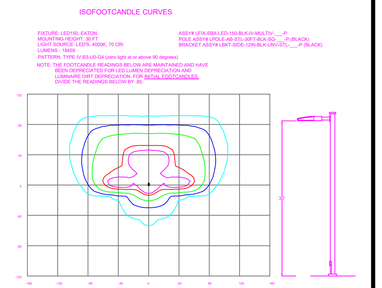
Sheet Number:
IR-3
Sheet: 3 OF 3

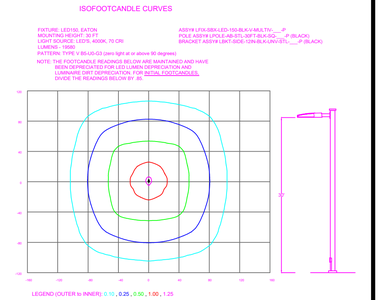
Statistics

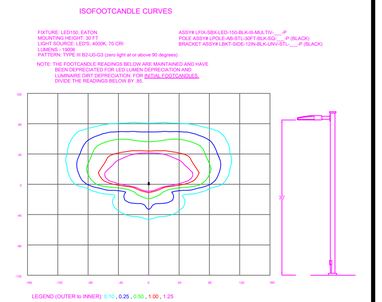
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking	+	1.1 fc	3.3 fc	0.3 fc	11.0:1	3.7:1

Schedule

Symbol	Label	QTY	Description	Number Lamps	Lamp Output	LLF
	A	13	LED 150w Shoebox - Type IV - 4000K	48	337	0.85
	B	13	LED 150w Shoebox - Type V - 4000K	48	400	0.85
	C	15	LED 150w Shoebox - Type III - 4000K	48	396	0.85
	D	2	LED 150w Shoebox - Type IV - 3000K	48	337	0.85







NO.	DATE	REVISION	BY
REV D	11/11/24	PARKING OPTIONS	NJ
REV C	11/11/24	UPDATED SITE PLAN	NJ
REV B	09/12/24	UPDATED SITE PLAN	NJ

DISTANCE CALIBRATION (INCHES)
0 0.5 1.0 2.0 3.0 4.0

LIGHTING DESIGN TOLERANCE

The calculated footcandle light levels in this lighting design are predicted values and are based on specific information that has been supplied to Duke Energy. Any inaccuracies in the supplied information, differences in luminaire installation, lighted area geometry including elevation differences, reflective properties of surrounding surfaces, obstructions (foliage or otherwise) in the lighted area, or lighting from sources other than listed in this design may produce different results from the predicted values. Normal tolerances of voltage, lamp output, and ballast and luminaire manufacture will also affect results.

DUKE ENERGY® PROGRESS

PROPRIETARY & CONFIDENTIAL

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HARNETT MIDDLE SCHOOL
Harnett County, NC
SITE LIGHTING ARRANGEMENT

Designed by	DUKE ENERGY PROGRESS LIGHTING SOLUTIONS
Reviewed by	N. Johnson
Scale	1" = 80'
Date	11/11/2024
Size	Drawing size "D"
Description	LED Shoebox
Drawing No.	24-0258D
Sht.	1 OF 1

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking	+	1.1 fc	3.3 fc	0.3 fc	11.0:1	3.7:1

Schedule

Symbol	Label	QTY	Description	Number Lamps	Lamp Output	LLF
	A	15	LED 150w Shoebox - Type IV - 4000K	48	337	0.85
	B	13	LED 150w Shoebox - Type V - 4000K	48	400	0.85
	C	15	LED 150w Shoebox - Type III - 4000K	48	396	0.85
	D	2	LED 150w Shoebox - Type IV - 3000K	48	337	0.85

Outdoor Lighting

SHOEBOX LED
(Meets Dark Sky Criteria)

LED (Light-emitting diode)	150 | 220 | 420 | 530 watts
Mounting height	25', 30', 35'
Color	Black | Bronze | Gray | White
Pole	Fiberglass *(1 or 2 fixtures per pole)* Decorative tapered metal Decorative square metal
Applications	Neighborhoods Roadways Shopping centers

Light source: *LED (white)*

Wattage: 150 | 220 | 420 | 530 watts

Light pattern: IES Type V | Type IV (forward throw) | Type III

IESNA cutoff classification: Full-cutoff

BUG rating: 150W Type III = B2U0G3 / Type IV = B3U0G4 / Type V = B5U0G3
220W Type III = B2U0G4 / Type IV = B3U0G4 / Type V = B4U0G3
420W Type IV = B3U0G5 / Type V = B5U0G5
530W Type IV = B3U0G5 / Type V = B5U0G5

Color temperature: 4,000K

light distribution pattern

POLE AVAILABLE	MOUNTING HEIGHT	COLOR
Round tapered decorative metal*	35'	Black, Bronze
Decorative square metal*	25' and 30'	Black, Bronze, Gray, White
Fiberglass	25' and 30'	Black *(1 or 2 fixtures per pole)* Gray *(2 or 3 fixtures per pole)*

FEATURES	BENEFITS
Turnkey operation	Provides hassle-free installation and service
Little or no installation cost	Frees up capital for other projects
Design services by lighting professionals included	Meets industry standards and lighting ordinances
Maintenance, electricity & warranty included	Eliminates high and unexpected repair bills
One low monthly cost on your electric bill	Convenience and savings for you

For additional information, email us at
ODLCarolinas@duke-energy.com.

DUKE ENERGY. PROGRESS

*ESU012 | 08/2019 (10/21/15)DE**

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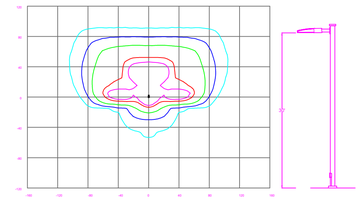
ISOFOOTCANDLE CURVES

FIXTURE: LED150, EATON
MOUNTING HEIGHT: 30'FT
LIGHT SOURCE: LED'S, 4000K, 70 CRI
LUMENS - 19458
PATTERN: TYPE IV B3-U0-G4 (zero light at or above 90 degrees)
NOTE: THE FOOTCANDLE READINGS BELOW ARE MAINTAINED AND HAVE BEEN DEPRECIATED FOR LED LUMEN DEPRECIATION AND LUMINAIRE DIRT DEPRECIATION. FOR INITIAL FOOTCANDLES, DIVIDE THE READINGS BELOW BY .89.

ASSYM LFIX-SBK-LED-150-BLK-IV-MULTIV-____-P
POLE ASSY# LPOLE-AB-STL-30FT-BLK-SQ-____-P (BLACK)
BRACKET ASSY# LBKT-SIDE-1SN-BLK-UNIV-STD-____-P (BLACK)

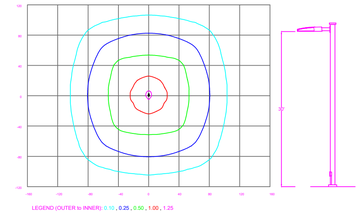


LEGEND (OUTER to INNER): 0.10 , 0.25 , 0.50 , 1.00 , 1.25

ISOFOOTCANDLE CURVES

FIXTURE: LED150, EATON
MOUNTING HEIGHT: 30'FT
LIGHT SOURCE: LED'S, 4000K, 70 CRI
LUMENS - 19458
PATTERN: TYPE V B5-U0-G3 (zero light at or above 90 degrees)
NOTE: THE FOOTCANDLE READINGS BELOW ARE MAINTAINED AND HAVE BEEN DEPRECIATED FOR LED LUMEN DEPRECIATION AND LUMINAIRE DIRT DEPRECIATION. FOR INITIAL FOOTCANDLES, DIVIDE THE READINGS BELOW BY .89.

ASSYM LFIX-SBK-LED-150-BLK-IV-MULTIV-____-P
POLE ASSY# LPOLE-AB-STL-30FT-BLK-SQ-____-P (BLACK)
BRACKET ASSY# LBKT-SIDE-1SN-BLK-UNIV-STD-____-P (BLACK)

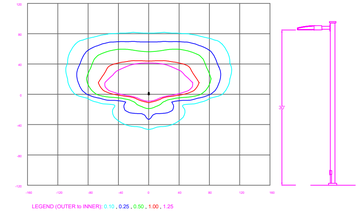


LEGEND (OUTER to INNER): 0.10 , 0.25 , 0.50 , 1.00 , 1.25

ISOFOOTCANDLE CURVES

FIXTURE: LED150, EATON
MOUNTING HEIGHT: 30'FT
LIGHT SOURCE: LED'S, 4000K, 70 CRI
LUMENS - 19458
PATTERN: TYPE III B2-U0-G2 (zero light at or above 90 degrees)
NOTE: THE FOOTCANDLE READINGS BELOW ARE MAINTAINED AND HAVE BEEN DEPRECIATED FOR LED LUMEN DEPRECIATION AND LUMINAIRE DIRT DEPRECIATION. FOR INITIAL FOOTCANDLES, DIVIDE THE READINGS BELOW BY .89.

ASSYM LFIX-SBK-LED-150-BLK-III-MULTIV-____-P
POLE ASSY# LPOLE-AB-STL-30FT-BLK-SQ-____-P (BLACK)
BRACKET ASSY# LBKT-SIDE-1SN-BLK-UNIV-STD-____-P (BLACK)



LEGEND (OUTER to INNER): 0.10 , 0.25 , 0.50 , 1.00 , 1.25

NO.	DATE	REVISION	BY
REV C	11/11/24	UPDATED SITE PLAN	NJ
REV B	09/12/24	UPDATED SITE PLAN	NJ

DISTANCE CALIBRATION (INCHES)

0 0.5 1.0 2.0 3.0 4.0

LIGHTING DESIGN TOLERANCE

The calculated footcandle light levels in this lighting design are predicted values and are based on specific information that has been supplied to Duke Energy. Any inaccuracies in the supplied information, differences in luminaire installation, lighted area geometry including elevation differences, reflective properties of surrounding surfaces, obstructions (foliage or otherwise) in the lighted area, or lighting from sources other than listed in this design may produce different results from the predicted values. Normal tolerances of voltage, lamp output, and ballast and luminaire manufacture will also affect results.

DUKE ENERGY® PROGRESS

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HARNETT MIDDLE SCHOOL
Harnett County, NC
SITE LIGHTING ARRANGEMENT

Designed by DUKE ENERGY PROGRESS LIGHTING SOLUTIONS
Reviewed by N. Johnson Scale 1" = 80'
Date 11/11/2024 Size Drawing size "D"
Description LED Shoebox
Drawing No. 24-0258C Sht. 1 OF 1

ADA AND LEGAL DISCLAIMER: This document is intended to comply with the requirements of the Americans with Disabilities Act (ADA). However architects and engineers are not licensed to interpret laws or give advice concerning laws. The owner should have this document reviewed by his attorney to determine if it complies with ADA and other laws.

GENERAL:

1. PROVIDE CONSTRUCTION CONFORMING TO THE 2018 NORTH CAROLINA BUILDING CODE (2015 INTERNATIONAL BUILDING CODE W/ NORTH CAROLINA AMMENDMENTS). REFERENCE TO LATEST EDITION OR OTHER STANDARDS, SPECIFICATIONS OR CODES SHALL MEET THE LATEST STANDARD OR CODE PUBLISHED AND ADOPTED BY THE LISTED BUILDING CODE.
2. MATERIAL TESTS AND INSPECTIONS ARE REQUIRED PER CHAPTER 17 OF THE 2015 INTERNATIONAL BUILDING CODE. REFER TO THE PROJECT STATEMENT OF SPECIAL INSPECTIONS FOR REQUIRED TESTS AND INSPECTIONS.
3. THESE NOTES APPLY EXCEPT WHERE OTHERWISE INDICATED BY DRAWINGS OR SPECIFICATIONS.
4. STRUCTURAL DRAWINGS INDICATE TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. SUBMITTED SHOP DRAWINGS DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND THE SPECIFIC REQUIREMENTS OF THIS PROJECT AS INDICATED ON THE DRAWINGS.
5. COORDINATE THE STRUCTURAL CONTRACT DOCUMENTS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL AND ALL OTHER CONSULTANTS. NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCY OR ANY CONFLICT AND/OR OMISSION. WHERE A CONFLICT OCCURS, THE STRICTEST REQUIREMENT SHALL GOVERN UNLESS OTHERWISE DECIDED BY THE DESIGN TEAM.
6. COORDINATE AND VERIFY FLOOR AND ROOF OPENING SIZES AND LOCATIONS SHOWN WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. FOR ADDITIONAL OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS REFER TO THE ARCHITECTURAL AND MECHANICAL DRAWINGS. OBTAIN WRITTEN APPROVAL OF ADDITIONAL OPENINGS LARGER THAN 12" x 12" FROM THE STRUCTURAL ENGINEER OF RECORD.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS AND ALL OTHER MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION.
8. COORDINATE THE BUILDING OPENINGS WITH ARCHITECTURAL DRAWINGS.
9. COMPLETE SHOP DRAWINGS FOR CONSTRUCTION OF EACH BUILDING COMPONENT NOT DESIGNED BY THE DESIGN TEAM OF RECORD AND NOT SPECIFIED ON THE PROJECT CONSTRUCTION DOCUMENTS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE MADE AVAILABLE AT THE JOB SITE.
10. UNO, FIREPROOFING REQUIREMENTS, METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS, REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
11. ALL REACTIONS AND FORCES SHOWN ON THE DRAWINGS ARE SERVICE LOADS (ASD COMBINATIONS) UNO.
12. DO NOT SCALE OFF OF DRAWINGS, ASK ARCHITECT FOR DIMENSIONS NOT SHOWN.

DESIGN LOADS

1. LIVE LOADS: UNIFORM
   - MECHANICAL = 150 PSF
   - ROOF = 20 PSF
   - CLASSROOMS = 60 PSF
   - CORRIDORS ABOVE FIRST FLOOR = 80 PSF
   - FIRST FLOOR CORRIDORS = 100 PSF
2. DEAD LOADS:
   - SUPERIMPOSED ROOF DEAD LOAD = 20 PSF
3. WIND DESIGN DATA:
   - ULTIMATE WIND SPEED, V_{ULT} = 127 MPH
   - NOMINAL DESIGN WIND SPEED, V_{ASD} = 98 MPH
   - RISK CATEGORY = III
   - WIND EXPOSURE = C
   - INTERNAL PRESSURE COEFFICIENT = ± 0.18
   - COMPONENTS AND CLADDING PRESSURES = SEE S-003
   - DESIGN BASE SHEAR V_X = 750 KIPS V_Y = 1010 KIPS
4. ROOF SNOW LOADING:
   - GROUND SNOW LOAD (P_G) = 10 PSF
   - FLAT-ROOF SNOW LOAD (P_F) = 11 PSF
   - SNOW EXPOSURE FACTOR (C_E) = 1.0
   - SNOW LOAD IMPORTANCE FACTOR (I) = 1.1
   - THERMAL FACTOR (C_T) = 1.0
5. SEISMIC DESIGN DATA:
   - SEISMIC IMPORTANCE FACTOR (I) = 1.25
   - MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS
     - (S_S) = 0.187
     - (S_1) = 0.087
   - SITE CLASS = D (PER GEOTECH REPORT)
   - DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS
     - (S_{DS}) = 0.149
     - (S_{D1}) = 0.099
   - SEISMIC DESIGN CATEGORY = B
   - BASIC SEISMIC FORCE RESISTING SYSTEM
     - = INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
   - DESIGN BASE SHEAR = 1220 KIPS
   - SEISMIC RESPONSE COEFFICIENT (C_S) = 0.053
   - RESPONSE MODIFICATION COEFFICIENT (R) = 3.5
   - PROCEDURE USED
     - = EQUIVALENT LATERAL FORCE PROCEDURE

SHOP DRAWINGS

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS THAT ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN IN THE CONTRACT DOCUMENTS. STRUCTURAL DRAWINGS INDICATE TYPICAL AND CERTAIN CONDITIONS ONLY. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND SPECIFIC REQUIREMENTS OF THIS PROJECT.
2. REVIEW OF SUBMITTALS AND SHOP DRAWINGS BY THE ARCHITECT/ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATIONS OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.
3. SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF QUANTITIES, LENGTHS, ELEVATIONS, DIMENSIONS, ETC.
4. SHOP DRAWING SUBMITTALS SHALL BE SUBMITTED ELECTRONICALLY. SHOP DRAWINGS SHALL BE REVIEWED, STAMPED AND SIGNED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. DRAWINGS SUBMITTED WITHOUT REVIEW WILL BE RETURNED UNCHECKED.
5. THE USE OR REPRODUCTIONS OF THESE CONTRACT DRAWINGS OR ANY PART OF THEM BY CONTRACTOR IN LIEU OF PREPARATION OF SHOP DRAWINGS WILL BE REJECTED UNCHECKED.
6. MAXIMUM REQUIRED TURN AROUND TIME FOR SHOP DRAWING APPROVAL BY STRUCTURAL ENGINEER IS TEN (10) WORKING DAYS.
7. THE FOLLOWING SHOP DRAWINGS SHALL BE SUBMITTED PRIOR TO CONSTRUCTION:
   A. CONCRETE MIX DESIGN
   B. CONCRETE REINFORCING
   C. HEAVY TIMBER
   D. TIMBER CONNECTIONS
   E. WOOD ROOF TRUSSES
   F. MASONRY REINFORCEMENT
   G. MASONRY
   H. STRUCTURAL STEEL
   I. STRUCTURAL STEEL CONNECTIONS REQUIRING ENGINEERING
   J. PREFABRICATED STEEL STAIRS, RAILINGS AND LADDERS
   K. METAL ROOF DECK ASSEMBLIES
   L. OPEN WEB STEEL JOISTS AND/OR GIRDERS
   M. LIGHT GAUGE STEEL EXTERIOR OR LOADBEARING WALL SYSTEMS
   N. GLAZED CURTAIN WALLS
   O. PRECAST CONCRETE ELEMENTS
   P. EXCAVATION SHORING AND RETAINING SYSTEMS
   Q. MECHANICAL ANCHORS
   R. CHEMICAL ANCHORS

SPECIAL INSPECTIONS:

1. IN ACCORDANCE WITH THE BUILDING CODE, SECTION 1704, THE OWNER WILL RETAIN THE SERVICES OF "SPECIAL INSPECTOR(S)" TO PERFORM INSPECTIONS PURSUANT TO THE "STATEMENT OF SPECIAL INSPECTIONS" AND THE "SCHEDULE OF SPECIAL INSPECTIONS." THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN SECTION 110 OF THE BUILDING CODE.
2. THE SPECIAL INSPECTOR SHALL BE QUALIFIED IN ACCORDANCE WITH THE BUILDING CODE.
3. THE CONTRACTOR SHALL COOPERATE WITH SPECIAL INSPECTOR(S) TO FACILITATE EXECUTION OF REQUIRED SERVICES. CONTRACTOR SHALL PROVIDE SPECIAL INSPECTOR(S) WITH CURRENT CONSTRUCTION SCHEDULE.
4. THE CONTRACTOR IS SHALL SUPPLY SPECIAL INSPECTOR WITH ALL CONTRACT DOCUMENTS, INCLUDING REVISIONS, AMENDMENTS, ETC.
5. THE CONTRACTOR SHALL SECURE AND DELIVER TO SPECIAL INSPECTORS ALL REQUIRED SUBMITTALS AND MATERIAL SAMPLES FOR TESTING.
6. THE CONTRACTOR SHALL PROVIDE SAFE ACCESS TO THE WORK TO BE INSPECTED BY THE SPECIAL INSPECTORS.
7. THE CONTRACTOR SHALL NOTIFY SPECIAL INSPECTOR SUFFICIENTLY IN ADVANCE OF OPERATIONS TO ALLOW FOR PERSONNEL ASSIGNMENT AND SCHEDULING BY SPECIAL INSPECTOR. WHEN TEST OR INSPECTION CAN NOT BE PERFORMED AFTER SUCH NOTICE (AND WITHOUT ADEQUATE CANCELLATION NOTICE), THE CONTRACTOR SHALL REIMBURSE OWNER THROUGH SPECIFICATION, DIVISION 1, PROCEDURES, FOR SPECIAL INSPECTOR'S COSTS AND EXPENSES. THE CONTRACTOR IS RESPONSIBLE FOR COSTS OF RE-TESTING (INSPECTIONS, TESTS, QUALITY ASSURANCE WORK, ETC.) WHERE RESULTS PROVE UNSATISFACTORY OR NONCOMPLIANT, REGARDLESS OF WHETHER ORIGINAL TEST WAS THE CONTRACTOR'S RESPONSIBILITY. COSTS OF RE-TESTING ARE THE RESPONSIBILITY OF THE CONTRACTOR.
8. THE SPECIAL INSPECTOR SHALL VERIFY THAT THE CONSTRUCTION FOLLOWS THE INTENT OF THE CONTRACT DOCUMENTS, APPLICABLE CODES AND THE PERMIT SUCH THAT THE PUBLIC SAFETY SHALL BE PROVIDED TO OCCUPANTS OF THE STRUCTURE.
9. THE SPECIAL INSPECTOR SHALL:
   A. REVIEW AND BE FAMILIAR WITH THE CONTRACT DOCUMENTS FOR ALL AREAS DEFINED IN THE "SCHEDULE OF SPECIAL INSPECTIONS."
   B. CONSULT WITH THE DESIGN PROFESSIONALS FOR CLARIFICATIONS CONCERNING QUESTIONS, PROBLEMS, ETC.
   C. ATTEND PRE-CONSTRUCTION AND ROUTINE JOB MEETINGS REQUIRED OF THE CONTRACTOR TO ASSURE THAT THE CONTRACTOR UNDERSTANDS THE CONTRACT DOCUMENTS.
   D. NOTIFY THE CONTRACTOR OF THEIR PRESENCE AND RESPONSIBILITIES AT THE JOB SITE.
   E. PROVIDE ADEQUATE OBSERVATIONS TO ASSURE THAT THE WORK BY THE CONTRACTOR IS IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.
   F. PERFORM ALL WORK AS DEFINED IN THE "SCHEDULE OF SPECIAL INSPECTIONS", INCLUDING REVIEW OF APPLICABLE SUBMITTALS. PERFORM ALL SPECIAL INSPECTIONS INDICATED IN THE SPECIFICATIONS.
   G. REPORT NONCONFORMING ITEMS TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
   H. PREPARE AND SUBMIT DAILY, INTERIM AND FINAL REPORT OF SPECIAL INSPECTIONS.
   I. REPORT ANY DAMAGING EVENTS AND OBSERVED NONCONFORMING CONDITIONS SUCH AS EXPOSED REINFORCEMENT, UNSPECIFIED FIELD ALTERATIONS TO STEEL, ETC. AND PREPARE AND SUBMIT A DISCREPANCY REPORT.
   J. INITIAL AND DATE THE "DATE COMPLETED" BOX IN THE SCHEDULE OF SPECIAL INSPECTIONS SERVICES AS THE INSPECTION AND ESTING ACTIVITIES ARE COMPLETED.
10. THE DISCREPANCY REPORT SHALL BE WRITTEN FOR EACH NONCONFORMING ITEM AND SHALL CONTAIN:
    A. DESCRIPTION AND EXACT LOCATION.
    B. REFERENCE TO APPLICABLE DRAWINGS AND SPECIFICATIONS.
    C. RESOLUTION OR CORRECTIVE ACTION TAKEN AND THE DATE.
11. THE DAILY AND INTERIM REPORT SHALL CONTAIN:
    A. DESCRIPTION OF THE SPECIAL INSPECTION AND TESTS MADE WITH LOCATION.
    B. INDICATION OF NONCONFORMING ITEMS AND THEIR RESOLUTION.
    C. LISTING OF UNRESOLVED ITEMS AND PARTIES NOTIFIED.
    D. ITEMIZATION OF ANY CHANGES AUTHORIZED BY THE DESIGN PROFESSIONAL
12. SPECIAL INSPECTION REPORTS AND A FINAL REPORT IN ACCORDANCE WITH THE BUILDING CODE SHALL BE AVAILABLE AT THE TIME THE BUILDING IS APPROVED FOR OCCUPANCY.

FOUNDATION:

1. THE DESIGN OF FOUNDATIONS, RETAINING WALLS AND SLABS-ON-GRADE IS BASED ON THE FOLLOWING CRITERIA ESTABLISHED IN THE GEOTECHNICAL ENGINEERING REPORT BY TERRACON DATED MAY 16, 2024 WITH REPORT NUMBER 70245033.
   - ALLOWABLE SOIL BEARING PRESSURE: 2,000 PSF
   - EQUIVALENT PASSIVE LATERAL FLUID PRESSURE: 279 PSF/FT
   - COEFFICIENT OF SLIDING FRICTION: 0.35
   - SOIL DENSITY: 120 PCF
   - MODULUS OF SUBGRADE REACTION: 125 PCI
2. DURING THE GEOTECHNICAL INVESTIGATION, EXPANSIVE SOILS WERE FOUND ON SITE. FAT CLAY SOIL BENEATH THE PROPOSED BUILDING FLOOR SLABS AND EXTERIOR PAVEMENT SHALL BE REMOVED TO A DEPTH OF 2' BELOW THE PROPOSED SLAB OR PAVEMENT FFE, OR EXISTING GRADE, WHICHEVER IS GREATER.
3. IT IS ANTICIPATED THAT UNDERCUTTING OF VERY SOFT TO SOFT OR VERY LOOSE NEAR-SURFACE NATURAL SOILS WILL BE NECESSARY IN MULTIPLE LOCATIONS ACROSS THE SITE.
4. SUBGRADE SHALL BE PROOFROLLED UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER OR THEIR REPRESENTATIVE WITH AN ADEQUATELY LOADED VEHICLE (20 TONS MIN.). AREAS EXCESSIVELY YIELDING OR CONSIDERED UNSTABLE UNDER THE RPOOFROLL SHOULD BE DELINEATED AND ADDRESSED BY THE GEOTECHNICAL ENGINEER. SUCH AREAS SHALL EITHER BE REMOVED OR MODIFIED BY SCARIFICATION AND RECOMPACTION, BLENDED SOIL/PROCESSED FILL OR TREATING/MIXING WITH LIME OR CEMENT. EXCESSIVELY WET OR DRY MATERIAL SHOULD EITHER BY REMOVED OF MOISTURE CONDITIONED AND RECOMPACTED.
5. AFTER EXCAVATION, IF THE CONDITION OF THE SOILS DO NOT MEET THE RECOMMENDED DESIGN CRITERIA STATED IN THE GEOTECHNICAL REPORT, NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD SO THAT THE FOUNDATIONS MAY BE REDESIGNED IF NECESSARY.
6. STRUCTURAL FILL PLACED BENEATH THE ENTIRE FOOTPRINT OF THE STRUCTURES SHALL EXTEND A MINIMUM DISTANCE OF 5 FEET HORIZONTALLY BEYOND THE OUTSIDE EDGE OF FOOTINGS. ON-SITE SOILS MAY BE SELECTIVELY REUSED AS STRUCTURAL FILL PROVIDED IT IS APPROVED BY THE GEOTECHNICAL ENGINEER. ON-SITE SOILS MAY REQUIRE MOISTURE-CONDITIONING IN ORDER TO ACHIEVE REQUIRED COMPACTION.
7. THE GEOTECHNICAL ENGINEER MUST VERIFY THE CONDITION AND/OR ADEQUACY OF ALL SUB-GRADES, FILLS AND BACKFILLS PRIOR TO THE PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS, WALLS, ETC.
8. BEAR ALL FOOTINGS ON ORIGINAL, UNDISTURBED LOW PLASTICITY SOIL (PI<30) OR STRUCTURAL FILL APPROVED BY THE GEOTECHNICAL ENGINEER AND HAVING THE THE PROPERTIES SUMMARIZED IN THE TABLE BELOW.
9. BACK FILLING WALLS:
   A. DEPOSIT BACKFILL AGAINST WALLS EVENLY AGAINST BOTH SIDES OF WALL UNTIL THE LOWER FINAL GRADE IS REACHED.
   B. DO NOT PLACE BACKFILL AGAINST WALLS DEPENDENT UPON TOP AND BOTTOM CONCRETE SLABS FOR SUPPORT UNTIL CONCRETE SLABS HAVE ATTAINED 65% OF THEIR DESIGN 28 DAY COMPRESSION STRENGTH.
   C. SHORE AND BRACE WALLS SHOWN MONOLITHIC WITH A SLAB-ON-GRADE AT THE TOP OF THE WALL DURING BACKFILLING OPERATIONS.
10. CONSTRUCT COLUMN FOOTINGS AND WALL FOOTINGS MONOLITHICALLY WITH TOPS OF ADJACENT FOOTINGS AT THE SAME ELEVATION.
11. DOWELS FROM FOUNDATIONS INTO PIERS, COLUMNS, BUTTRESSES, OR WALLS ABOVE SHALL BE THE SAME SIZE AND NUMBER AS VERTICAL REINFORCEMENT IN PIERS, COLUMNS, BUTTRESSES OR WALLS ABOVE, EXCEPT AS OTHERWISE SHOWN ON THE DRAWINGS.
12. UNLESS OTHERWISE NOTED, ALL FOOTINGS AND PILASTERS SHALL BE CENTERED UNDERS UPPORTED MEMBERS.
13. FILLS:
   A. REMOVE ALL UNSUITABLE SOILS AND REPLACE WITH CLEAN STRUCTURAL FILL AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER.
   B. PLACE FILL SOILS AS DESCRIBED IN THE GEOTECHNICAL REPORT AND SUMMARIZED IN THE TABLE BELOW.
   C. COMPACT ALL FILL WITHIN 10'-0" OF THE BUILDING LIMIT AS STATED IN THE TABLE BELOW.
   D. TEST FIELD DENSITY AS DESCRIBED IN THE GEOTECHNICAL REPORT TO VERIFY ADEQUATE COMPACTION AND DESIGN BEARING PRESSURE.
14. ALL FOOTING EXCAVATIONS ARE TO BE FINISHED BY HAND.
15. ALL FINISHED FOUNDATION EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE ARCHITECT OR HIS DESIGNATE BEFORE ANY CONCRETE IS PLACED.
16. WHERE FOOTING STEPS ARE NECESSARY, SLOPE NO STEEPER THAN ONE VERTICAL TO TWO HORIZONTAL.
17. CONTRACTOR SHALL PROVIDE CONTINUOUS CONTROL OF SURFACE AND UNDERGROUND WATER AS REQUIRED DURING CONSTRUCTION SUCH THAT THE WORK IS DONE IN THE DRY.
18. NO FOUNDATIONS SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
19. COORDINATE UNDERFLOOR DUCTWORK REQUIREMENTS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER.

STRUCTURAL FILL INDEX PROPERTIES

SUBJECT	PROPERTY
BUILDING AND PAVEMENT AREAS	LL < 50, PI < 30
MAX PARTICAL SIZE	3 INCHES
COMPOSITION	FREE OF DELETERIOUS MATERIAL

STRUCTURAL FILL COMPACTION REQUIREMENTS

SUBJECT	REQUIREMENT
COMPACTION STANDARD	STANDARD PROCTOR, ASTM D698
REQUIRED COMPACTION	98% OF MAX DRY DENSITY WITHIN TOP OF 12", AND 95% ELSEWHERE
MOISTURE CONTENT	-3 TO +3% POINTS OF SOIL'S OPTIMUM VALUE
LOOSE THICKNESS	10 INCHES PRIOR TO COMPACTION WHEN HEAVY, SELF-PROPELLED EQUIPMENT IS USED 6 INCHES PRIOR TO COMPACTION WHEN HAND-GUIDED EQUIPMENT IS USED

REINFORCED CONCRETE:

1. PROVIDE REINFORCED CONCRETE CONFORMING TO THE FOLLOWING STANDARDS.
   A. ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, LATEST EDITION.
   B. ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, LATEST EDITION.
   C. ACI 302.1R, GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION, LATEST EDITION.
   D. ACI 360R, DESIGN OF SLABS-ON-GROUND, LATEST EDITION.
   E. PROJECT SPECIFICATION MANUAL DIVISION 3
2. FULLY DOCUMENT AND SUBMIT FOR REVIEW THE PROPOSED MATERIALS AND MIX DESIGN FOR ALL CONCRETE. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE REQUIRED DESIGN STRENGTH. ALL CONCRETE TEST DATA MUST BE AVAILABLE AT THE JOB SITE.
3. DETAIL CONCRETE REINFORCEMENT ACCORDING TO ACI SP-66 DETAILING MANUAL. SUBMIT SHOP DRAWINGS FOR APPROVAL, SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING CONCRETE REINFORCING AND ACCESSORIES. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED BY THE STRUCTURAL EOR. UNLESS SPECIFICALLY APPROVED OTHERWISE, DETAIL ALL CONCRETE WALLS AND BEAMS IN ELEVATION.
4. PROVIDE NORMAL WEIGHT CONCRETE WITH THE FOLLOWING 28 DAY COMPRESSIVE STRENGTHS:
   - FOUNDATIONS: 3000 PSI NW
   - RETAINING WALLS AND PIERS: 4000 PSI NW
   - SLABS-ON-GRADE: 3000 PSI NW
   - SLABS-ON-GRADE EXPOSED TO WEATHER: 5000 PSI NW, AIR-ENTRAINED
   - SUPPORTED SLABS ON STEEL DECK: 3500 PSI LW
5. PROVIDE CONCRETE WITH:
   A. 4% TO 6% ENTRAINED AIR BY VOLUME IN CONCRETE PERMANENTLY EXPOSED TO WEATHER.
   B. THE USE OF CALCIUM CHLORIDE, CHLORIDE IONS OR OTHER SALTS IS NOT PERMITTED.
   C. PLACE CONCRETE AT A SLUMP OF 5" ± 1" UNO.
6. UNO, PROVIDE REINFORCING STEEL CONFORMING TO ASTM A 615, GRADE 60.
7. PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE. SPLICE ONLY AS SHOWN OR APPROVED. LAP LENGTHS, EXPRESSED IN NUMBER OF BAR DIAMETERS, SHALL BE AS FOLLOWS:

BAR SIZE	NORMAL WT. CONCRETE STRENGTH, fc (psi)		
	3000	4000	5000
#6 OR SMALLER	57 DIA.	49 DIA.	44 DIA.
#7 OR LARGER	71 DIA.	62 DIA.	55 DIA.

MULTIPLY THE ABOVE LENGTHS BY 1.3 FOR TOP BARS AND BY 1.3 FOR LIGHTWEIGHT CONCRETE. WHERE BARS OF UNEQUAL DIAMETER ARE LAPPED, USE THE LAP LENGTH OF THE SMALLER BAR. THE MINIMUM LENGTHS ARE CLASS "B" TENSION LAP SPLICES BASED ON GRADE 60 BARS WITH A COVER OF AT LEAST 1 BAR DIA. AND SPACING AT LEAST 3 BAR DIA. LAP LENGTHS SHALL BE INCREASED IN ACCORDANCE WITH ACI 318 IF COVER IS LESS THAN 1 BAR DIA. OR SPACING IS LESS THAN 3 BAR DIA.

8. ACCURATELY INSTALL AND PROPERLY SECURE ANCHORS, BEARING PLATES, SLEEVES, AND OTHER EMBEDDED ITEMS.
9. ACCURATELY LOCATE AND BOND OUTLET OPENINGS AND PENETRATIONS.
10. COORDINATE WITH OTHER TRADES FOR ANCHORS, EMBEDDED ITEMS, SLEEVES, AND PENETRATIONS REQUIRED AND/OR FURNISHED BY THE OTHER TRADES.
11. PROVIDE WELDED WIRE REINFORCEMENT (MESH) IN FLAT SHEETS (ROLLS NOT PERMITTED) CONFORMING TO ASTM A1064. LAP WWR A MINIMUM OF 6" AT EACH JOINT.
12. FIBER REINFORCING MAY BE SUBSTITUTED FOR WWR IN SLABS-ON-GRADE WITH THE APPROVAL OF THE STRUCTURAL EOR. PROVIDE FIBER REINFORCING CONFORMING TO ASTM C 1609, TYPE I.
13. SEE ARCHITECTURAL DRAWINGS FOR WATERSTOPS.
14. UNO, PROVIDE THE FOLLOWING CONCRETE COVER ON ALL REINFORCING STEEL:
   A. CONCRETE AGAINST EARTH (NOT FORMED): 3"
   B. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:
      a. #6 THROUGH #18 BARS: 2"
      b. #5 BARS SMALLER: 1 1/2"
   C. FORMED CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
      a. SLABS, JOISTS, AND WALLS: 3/4"
      b. BEAMS (STIRRUPS) AND COLUMNS (TIES): 1 1/2"
15. REINFORCING, INCLUDING DOWELS, SHALL BE SECURELY TIED AND CAST WITH THE LOWER MEMBER. PLACING REINFORCING AFTER CONCRETE HAS BEEN PLACED IS NOT PERMITTED.
16. FIELD BENDING OF REINFORCING PARTIALLY EMBEDDED IN CONCRETE IS NOT ALLOWED UNLESS SPECIFICALLY NOTED IN THE STRUCTURAL DOCUMENTS OR APPROVED BY STRUCTURAL ENGINEER.
17. PROVIDE DOWELS FROM THE FOUNDATION WHICH ARE THE SAME GRADE, SIZE AND NUMBER AS VERTICAL WALL OR COLUMN REINFORCING UNO.
18. TIE ALL REINFORCING AND EMBEDDED ITEMS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF THE REINFORCEMENT WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES.
19. PROVIDE CORNER BARS AT ALL CORNERS AND INTERSECTIONS OF ALL FOOTINGS, BEAMS AND WALLS.
20. PROVIDE CONSTRUCTION OR CONTRACTION JOINTS IN SLABS-ON-GRADE SPACED AT A MAXIMUM 12'-0" OC IN EACH DIRECTION AND WITH THE LENGTH BETWEEN CONTROL JOINTS NO GREATER THAN 1 1/4 TIMES THE WIDTH BETWEEN CONTROL JOINTS.
21. SAWCUT CONTROL JOINTS AS SOON AFTER PLACING AS POSSIBLE, WHEN CONCRETE WILL NOT RAVEL, TEAR, CRACK OR OTHERWISE DAMAGE THE SURFACE AND BEFORE THE CONCRETE DEVELOPS RANDOM SHRINKAGE CRACKING. CURE CONCRETE IN ACCORDANCE WITH ACI 301. BEGIN CURING IMMEDIATELY AFTER PLACING TO LIMIT CRACKING PRIOR TO SAWCUTTING CONTROL JOINTS.
22. UNLESS NOTED OTHERWISE, AT BASEMENT WALLS AND RETAINING WALLS:
   A. PROVIDE VERTICAL CONTROL JOINTS IN BASEMENT WALLS AND RETAINING WALLS WITH A MAXIMUM SPACING OF 15'-0" ON CENTER AND 3/4" DEEP V-CHAMFER ON BOTH FACES.
   B. INTERRUPT HALF OF THE SPECIFIED HORIZONTAL REINFORCEMENT AT CONTROL JOINTS.
   C. CENTER CHAMFER STRIPS BETWEEN VERTICAL REINFORCING BARS.
23. NON-STRUCTURAL EMBEDMENTS (CONDUIT, PIPES, SLEEVES, ETC) WITHIN WALLS, BEAMS OR SLABS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. ALL EMBEDMENTS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH ACI STANDARDS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
   A. ALUMINUM MATERIALS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE
   B. OVERALL OUTSIDE DIMENSION OF EMBEDMENTS SHALL NOT EXCEED 1/3 THE CONCRETE MEMBER THICKNESS UP TO 2" MAXIMUM.
      a. FOR CONCRETE SLABS ON METAL DECK THE MEMBER THICKNESS SHALL BE THE CONTINOUS SLAB THICKNESS ABOVE THE DECK.
   C. EMBEDMENTS SHALL BE SPACED A MINIMUM OF 6" OC AND SHALL NOT ALTER OR DISPLACE REINFORCING.

STEEL COMPOSITE FLOOR CONSTRUCTION:

1. COMPOSITE FLOOR MEMBERS ARE DESIGNED TO BE UNSHORED, UNO.
2. SHEAR STUD CONNECTORS SHALL BE AS SHOWN ON PLANS OR DETAILS AND SHALL BE WELDED THROUGH STEEL DECK OR THRU METAL DECK. DO NOT WELD TO CLOSURE PLATES.
3. SHEAR STUD CONNECTORS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE", SECTION 7 - STUD WELDING. STUD WELDING SHALL BE BY AUTOMATIC WELDING EQUIPMENT ONLY. HAND WELDING OF STUDS IS NOT ALLOWED. STUDS SHALL BE TYPE 'B', HEADED STUDS HAVING A MINIMUM TENSILE STRENGTH OF 60 KSI AND SHALL BE OF LENGTH AND DIAMETER SHOWN ON STRUCTURAL DRAWINGS.
4. SUBMIT SHOP DRAWINGS INDICATING SHEAR STUD LOCATIONS ON EACH BEAM.
5. SHEAR STUD INSTALLATION SHALL BE TESTED BY THE TESTING INSPECTOR PER AWS SPECIFICATIONS AND APPROVED BEFORE ANY CONCRETE IS PLACED.
6. CONCRETE THICKNESS INDICATED ON PLAN IS NOMINAL. CONTRACTOR SHALL ALLOW FOR DEFLECTION OF THE FLOOR ASSEMBLY DUE TO THE WET WEIGHT OF THE CONCRETE WHEN CALCULATING CONCRETE QUANTITY.
7. CONDUITS, SLEEVES AND PIPING SHALL NOT BE LOCATED WITHIN THE ELEVATED SLAB THICKNESS (NO CONDUIT IN SLAB).
8. PLACEMENT OF CONTROL JOINTS IN THE COMPOSITE FLOOR SLAB IS PROHIBITED. IF CONSTRUCTION JOINT IS REQUIRED, LOCATION SHALL BE APPROVED BY ENGINEER PRIOR TO CONSTRUCTION.
9. COMPOSITE FLOOR DECK SHALL BE GALVANIZED.
10. PROVIDE ADDITIONAL SUPPORT AND CLOSURE PIECES AS REQUIRED FOR STRENGTH, CONTINUITY OF DECK AND SUPPORT OF OTHER WORK.
11. 2" COMPOSITE DECK WITH DESIGN THICKNESS 0.0358" (20 GA) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
    - Ip = 0.418 IN^4/FT
    - In = 0.415 IN^4/FT
    - Sp = 0.355 IN^3/FT
    - Sn = 0.360 IN^3/FT
    - Fy = 50 KSI
12. 3" COMPOSITE FLOOR DECK WITH DESIGN THICKNESS 0.0474 (18GA) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
    - I = 1.253 IN^4/FT
    - Sp = 0.76 IN^3/FT
    - Sn = 0.794 IN^3/FT
    - Fy = 50 KSI
13. COMPOSITE FLOOR DECK SHALL BE WELDED TO SUPPORTS, BOTH PERPENDICULAR AND PARALLEL TO DECK, WITH 5/8" DIAMETER PUDDLE WELDS AND FASTENED AT SIDELAPS WITH #10 SCREWS AS FOLLOWS.
    A. TYPICAL INSTALLATION, UNLESS NOTED OTHERWISE:
       a. WELD PATTERN: 36/4
       b. SIDELAP FASTENERS: (3) FASTENERS / SPAN, MAXIMUM 36" OC
       c. AT PERIMETER EDGES BETWEEN SUPPORTS, FASTEN WITH 1 1/2" LONG WELD SPACED A MAXIMUM OF 36" APART.
       d. END BEARING: 1 1/2" MINIMUM.
       e. END JOINTS: BUTTED OF LAPPED.

WOOD FRAMING - GENERAL:

1. ALL WORK SHALL BE IN ACCORDANCE WITH AITC TIMBER CONSTRUCTION MANUAL AND THE

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1 S-003 **WIND UPLIFT PLAN**
SCALE: 1" = 30'-0"

ULTIMATE WIND LOADS ON COMPONENTS & CLADDING FOR GIVEN TRIBUTARY AREAS (psf)
HIGH FLAT ROOF

	ZONE	10 SQ FT	20 SQ FT	50 SQ FT	100 SQ FT	500 SQ FT
ROOF	1	+17.7/-43.4	+16.6/-42.3	+16.0/-40.9	+16.0/-39.8	+16.0/-39.8
ROOF	2	+39.8/-72.9	+38.0/-65.1	+35.7/-54.9	+33.9/-47.1	+29.8/-47.1
ROOF	3	+39.8/-72.9	+38.0/-65.1	+35.7/-54.9	+33.9/-47.1	+29.8/-47.1
PARAPET	2	+99.4/-69.6	+89.9/-66.1	+77.3/-61.4	+67.8/-57.9	+63.7/-49.7
PARAPET	3	+99.4/-79.5	+89.9/-74.2	+77.3/-67.3	+67.8/-62.0	+63.7/-49.7
WALL	4	+39.8/-43.1	+38.0/-41.3	+35.7/-39.0	+33.9/-37.2	+29.8/-33.1
WALL	5	+39.4/-53.0	+38.0/-49.5	+35.7/-44.8	+33.9/-41.3	+29.8/-33.1

ULTIMATE WIND LOADS ON COMPONENTS & CLADDING FOR GIVEN TRIBUTARY AREAS (psf)
AREA 500/600 ROOF

	ZONE	10 SQ FT	20 SQ FT	50 SQ FT	100 SQ FT	500 SQ FT
ROOF	1	+24.5/-38.9	+22.3/-37.8	+19.5/-36.4	+17.3/-35.3	+17.3/-35.3
ROOF	2	+24.5/-67.7	+22.3/-62.3	+19.5/-55.1	+17.3/-49.7	+17.3/-49.7
ROOF	3	+24.5/-100.2	+22.3/-93.7	+19.5/-85.0	+17.3/-78.5	+17.3/-78.5
ROOF O'HANG	2	-79.3	-79.3	-79.3	-79.3	-79.3
ROOF O'HANG	3	-133.3	-120.3	-103.0	-90.1	-90.1
WALL	4	+42.5/-46.1	+40.6/-44.2	+38.1/-41.7	+36.2/-39.8	+31.7/-35.3
WALL	5	+42.5/-56.9	+40.6/-53.1	+38.1/-48.0	+36.2/-44.2	+31.7/-35.3

ULTIMATE WIND LOADS ON COMPONENTS & CLADDING FOR GIVEN TRIBUTARY AREAS (psf)
AREA 200 HIGH ROOF

	ZONE	10 SQ FT	20 SQ FT	50 SQ FT	100 SQ FT	500 SQ FT
ROOF	1	+37.9/-41.4	+36.8/-39.3	+35.4/-36.5	+34.4/-34.4	+34.4/-34.4
ROOF	2	+37.9/-48.4	+36.8/-46.3	+35.4/-43.5	+34.4/-41.4	+34.4/-41.4
ROOF	3	+37.9/-48.4	+36.8/-46.3	+35.4/-43.5	+34.4/-41.4	+34.4/-41.4
ROOF O'HANG	2	-70.1	-68.0	-65.2	-63.1	-63.1
ROOF O'HANG	3	-70.1	-68.0	-65.2	-63.1	-63.1
WALL	4	+41.4/-44.9	+39.5/-43.0	+37.0/-40.5	+35.2/-38.7	+30.9/-34.4
WALL	5	+41.4/-55.4	+39.5/-51.7	+37.0/-46.7	+35.2/-43.0	+30.9/-34.4

ULTIMATE WIND LOADS ON COMPONENTS & CLADDING FOR GIVEN TRIBUTARY AREAS (psf)
AREA 400 ROOF
a = 8.6 FT

	ZONE	10 SQ FT	20 SQ FT	50 SQ FT	100 SQ FT	500 SQ FT
ROOF	1	+22.0/-34.9	+20.0/-33.9	+17.4/-32.6	+16.0/-31.6	+16.0/-31.6
ROOF	2	+22.0/-60.7	+20.0/-55.9	+17.4/-49.4	+16.0/-44.6	+16.0/-44.6
ROOF	3	+22.0/-89.8	+20.0/-84.0	+17.4/-76.2	+16.0/-70.4	+16.0/-70.4
ROOF O'HANG	2	-71.0	-71.0	-71.0	-71.0	-71.0
ROOF O'HANG	3	-119.5	-107.9	-92.4	-80.7	-80.7
WALL	4	+38.1/-41.3	+36.4/-39.6	+34.1/-37.4	+32.4/-35.6	+28.4/-31.6
WALL	5	+38.1/-51.0	+36.4/-47.6	+34.1/-43.1	+32.4/-36.2	+28.4/-31.6

ULTIMATE WIND LOADS ON COMPONENTS & CLADDING FOR GIVEN TRIBUTARY AREAS (psf)
CLERESTORY ROOF

	ZONE	10 SQ FT	20 SQ FT	50 SQ FT	100 SQ FT	500 SQ FT
ROOF	1	+16.9/-45.0	+16.0/-45.0	+16.0/-45.0	+16.0/-45.0	+16.0/-45.0
ROOF	2	+16.9/-52.1	+16.0/-51.0	+16.0/-49.6	+16.0/-48.5	+16.0/-48.5
ROOF	3	+16.9/-69.6	+16.0/-63.3	+16.0/-54.9	+16.0/-48.5	+16.0/-48.5
ROOF O'HANG	2	-62.6	-61.6	-60.1	-59.1	-59.1
ROOF O'HANG	3	-97.8	-87.2	-73.2	-62.6	-62.6
WALL	4	+38.0/-41.2	+36.3/-39.5	+34.1/-37.2	+32.4/-35.6	+28.5/-31.7
WALL	5	+38.0/-50.6	+36.3/-47.3	+34.1/-42.8	+32.4/-39.5	+28.5/-31.7

ULTIMATE WIND LOADS ON COMPONENTS & CLADDING FOR GIVEN TRIBUTARY AREAS (psf)
LOW ROOF

	ZONE	10 SQ FT	20 SQ FT	50 SQ FT	100 SQ FT	500 SQ FT
ROOF	1	+16.0/-41.3	+16.0/-41.3	+16.0/-41.3	+16.0/-41.3	+16.0/-41.3
ROOF	2	+16.0/-47.8	+16.0/-46.8	+16.0/-45.5	+16.0/-44.6	+16.0/-44.6
ROOF	3	+16.0/-63.8	+16.0/-58.1	+16.0/-50.4	+16.0/-44.6	+16.0/-44.6
ROOF O'HANG	2	-57.5	-56.5	-55.2	-54.3	-54.3
ROOF O'HANG	3	-89.8	-80.1	-67.2	-57.5	-57.5
WALL	4	+34.9/-37.8	+33.3/-36.2	+31.3/-34.2	+29.7/-32.7	+26.2/-29.1
WALL	5	+34.9/-46.5	+33.3/-43.4	+31.3/-39.3	+29.7/-36.2	+26.2/-29.1

1. DETERMINE WIND LOADS ON COMPONENTS IN ACCORDANCE WITH ASCE-7 OR WITH THESE TABLES. REFERENCE ASCE-7-10 CHAPTER 30. TRIBUTARY AREA = GREATER OF LxW OR LxL/3.
2. DESIGN FOR STRENGTH USING LOADS FROM ASCE-7 OR FROM THIS TABLE.
3. FOR SERVICEABILITY AND DEFLECTION REQUIREMENTS, REFER TO ASCE 7-10 APPENDIX C.
4. POSITIVE PRESSURES ARE DIRECTED TOWARD THE INTERIOR. NEGATIVE LOADS ARE DIRECTED AWAY FROM THE INTERIOR. NEGATIVE ROOF LOADS ARE UPLIFT LOADS.
5. NET UPLIFT IS EQUAL TO THE GROSS UPLIFT LOAD CALCULATED FROM ASCE-7 OR FROM THESE TABLES MINUS A RELIABLE ROOF DEAD LOAD OF 10 PSF.

ROOF UPLIFT DESIGN PRESSURE NOTES:

1. ROOF WIND UPLIFT DESIGN PRESSURE ZONES INDICATED ON THIS SHEET ARE FOR ROOFING MATERIAL COMPONENTS AND CLADDING ONLY. SEE THIS SHEET FOR DESIGN PRESSURES.
2. DESIGN NET WIND UPLIFT FOR JOISTS SHALL BE DETERMINED BASED ON WIND ZONES PER ASCE 7-10, JOIST TRIBUTARY AREA, AND WIND PRESSURES INDICATED ON THIS SHEET. NET UPLIFT SHALL BE CALCULATED USING A RELIABLE ROOF DEAD LOAF OF 10 PSF AND THE APPLICABLE LOAD COMBINATIONS PER ASCE 7-10.

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CONSTRUCTION DOCUMENTS

HARNETT COUNTY SCHOOLS
FLATWOODS MIDDLE SCHOOL
JOEL JOHNSON ROAD/US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

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ROOF UPLIFT DESIGN PRESSURES

S-003

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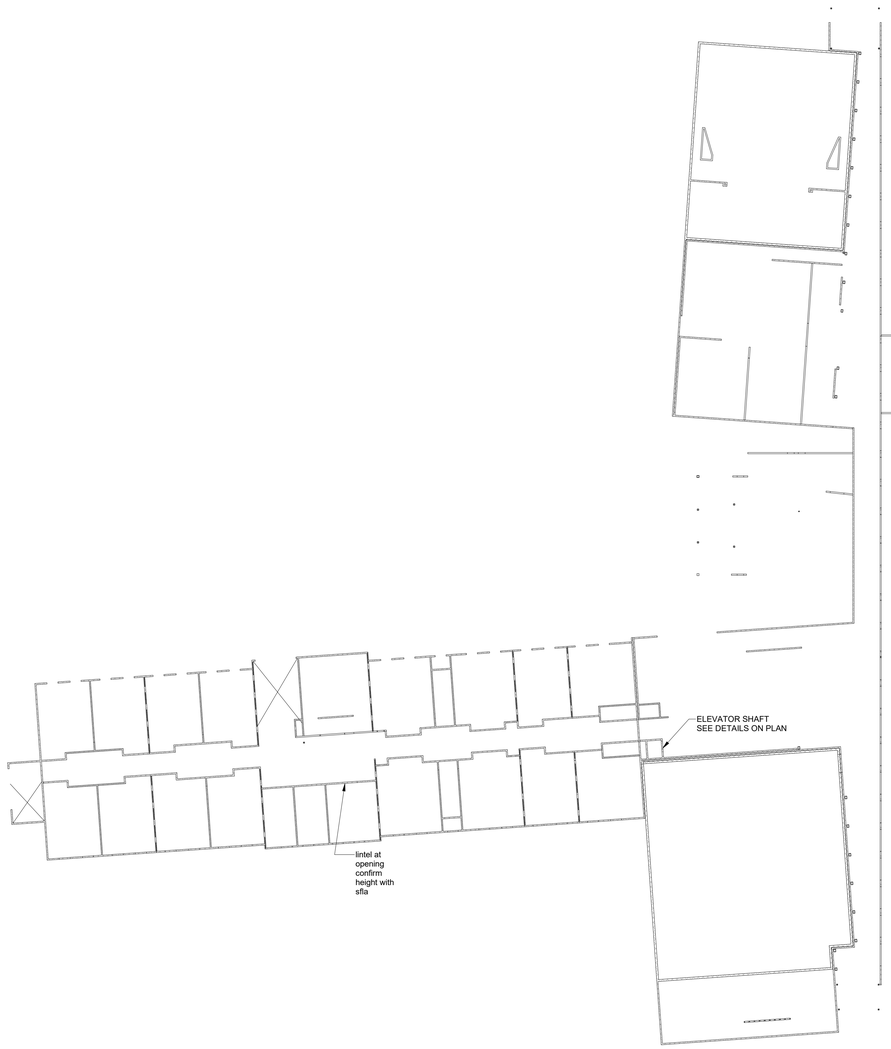

1 S-004 **CMU BRACING - HIGH**

SCALE: 1" = 30'-0"

2 S-004 **CMU BRACING - LOW**

SCALE: 1" = 30'-0"

CMU INTERIOR WALL BRACING PLAN NOTES:

1. REFER TO FRAMING PLANS FOR SECTIONS NOT IDENTIFIED ON THIS SHEET AND FOR SECTIONS AT EXTERIOR WALLS.
2. COORDINATE WALL TYPES WITH ARCH DWGS.

CMU INTERIOR WALL BRACING PLAN LEGEND:

- DENOTES CMU SHEARWALL UP TO UNDERSIDE OF ROOF DECK REFER TO DETAIL 7/S-501
- DENOTES CMU PARTITION WALL UP TO UNDERSIDE OF FLOOR OR ROOF DECK. REFER TO DETAIL 5/S-201
- DENOTES CMU PARTITION WALL BELOW UNDERSIDE OF DECK. REFER TO DETAIL 6/S-201
- DENOTES CMU WALL NO TOP OF WALL BRACING REQ'D

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CMU WALL BRACING OVERALL PLAN

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S-004

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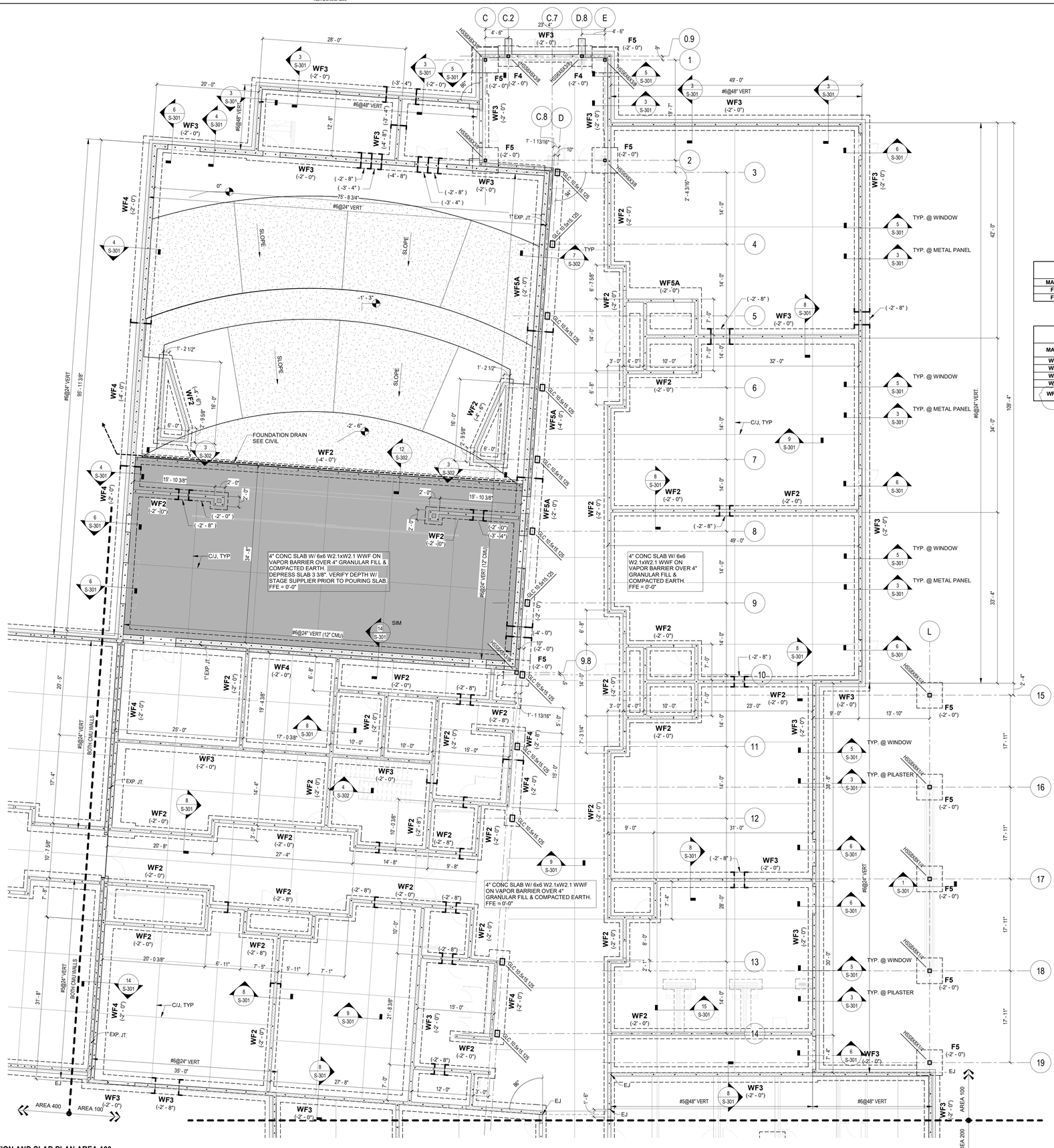

1 S-111 **FOUNDATION AND SLAB PLAN AREA 100**
SCALE: 1/8" = 1'-0"

COLUMN FOOTING SCHEDULE (2000 PSF BEARING)

MARK	SIZE	THICKNESS	REINFORCING	REMARKS
F4	4' - 0" x 4' - 0"	1' - 0"	(6)#5 EW BOTTOM	
F5	5' - 0" x 5' - 0"	1' - 2"	(6)#5 EW BOTTOM	

WALL FOUNDTION SCHEDULE

MARK	FOUNDATION SIZE (WIDTH x THICKNESS)	REINFORCING
WF2	2' - 0" x 1' - 0"	#5@12" EW BOTTOM
WF3	3' - 0" x 1' - 0"	#5@12" EW BOTTOM
WF4	4' - 0" x 1' - 0"	#5@12" EW BOTTOM
WF5	5' - 0" x 1' - 0"	#5@12" EW BOTTOM
WF5A	5' - 0" x 1' - 0"	#5@12" EW TOP & BOTTOM

FOUNDATION PLAN NOTES:

1. NUMBER IN PARENTHESIS DENOTES TOP OF FOOTING BELOW FIN. FLOOR ELEVATION = 0'-0" (REF. 162.0').
2. F# DENOTES COLUMN/SPREAD FOOTING. SEE S-111 FOR SCHEDULE.
3. SEE S-201, S-202, AND S-203 FOR CMU WALL REINFORCING REQUIREMENTS.
4. IN ADDITION TO REINFORCING SHOWN ON THE DRAWINGS, PROVIDE (1) VERT. BAR(SAME SIZE AS WALL REINF. BARS) IN JAMBS OF ALL DOORS AND WINDOWS AND (1) #6 BAR EACH SIDE OF EXPANSION AND CONTROL JOINTS. SEE ARCH'L FOR JOINT LOCATIONS. SEE DETAIL 4/S-201 .
5. ⌐¬ DENOTES STEPPED FOOTING. SEE 11/S-301 FOR DETAIL. G.C. COORDINATE STEP LOCATIONS AND DEPTH W/ PLUMBING CONTRACTOR PRIOR TO FOOTING EXCAVATION. CONTRACTOR'S OPTION: TOP OF FOOTING ELEVATIONS MAY BE LOWERED BETWEEN STEP LOCATIONS TO REDUCE THE NUMBER OF STEPS REQUIRED. SUBMIT FOR APPROVAL.
6. PROVIDE #5@48" VERTICAL @ INTERIOR CMU WALLS U.O.N. SEE FOUNDATION PLAN FOR VERTICAL REINFORCING IN EXTERIOR CMU WALLS. REBAR SHOWN ON PLAN IS NOT DRAWN TO SCALE. REFER TO TEXT CALLOUTS FOR REBAR SPACING.
7. REFER TO ARCH'L DRAWINGS FOR INTERIOR WALL DIMENSIONS NOT SHOWN ON STRUCTURAL.
8. PROVIDE BOND BEAMS IN MASONRY WALLS @ 8'-0" MAX AND TOP COURSE OF ALL WALLS.
9. PROVIDE CORNER BARS IN BOND BEAMS AT WALL CORNERS AND INTERSECTIONS. LAP 2'-0".
10. VERIFY ELEVATOR PIT DEPTH AND DIMENSIONS W/ ELEVATOR SUPPLIER PRIOR TO EXCAVATION. SEE DETAIL 12/S-301 .

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FOUNDATION AND SLAB PLAN AREA 100

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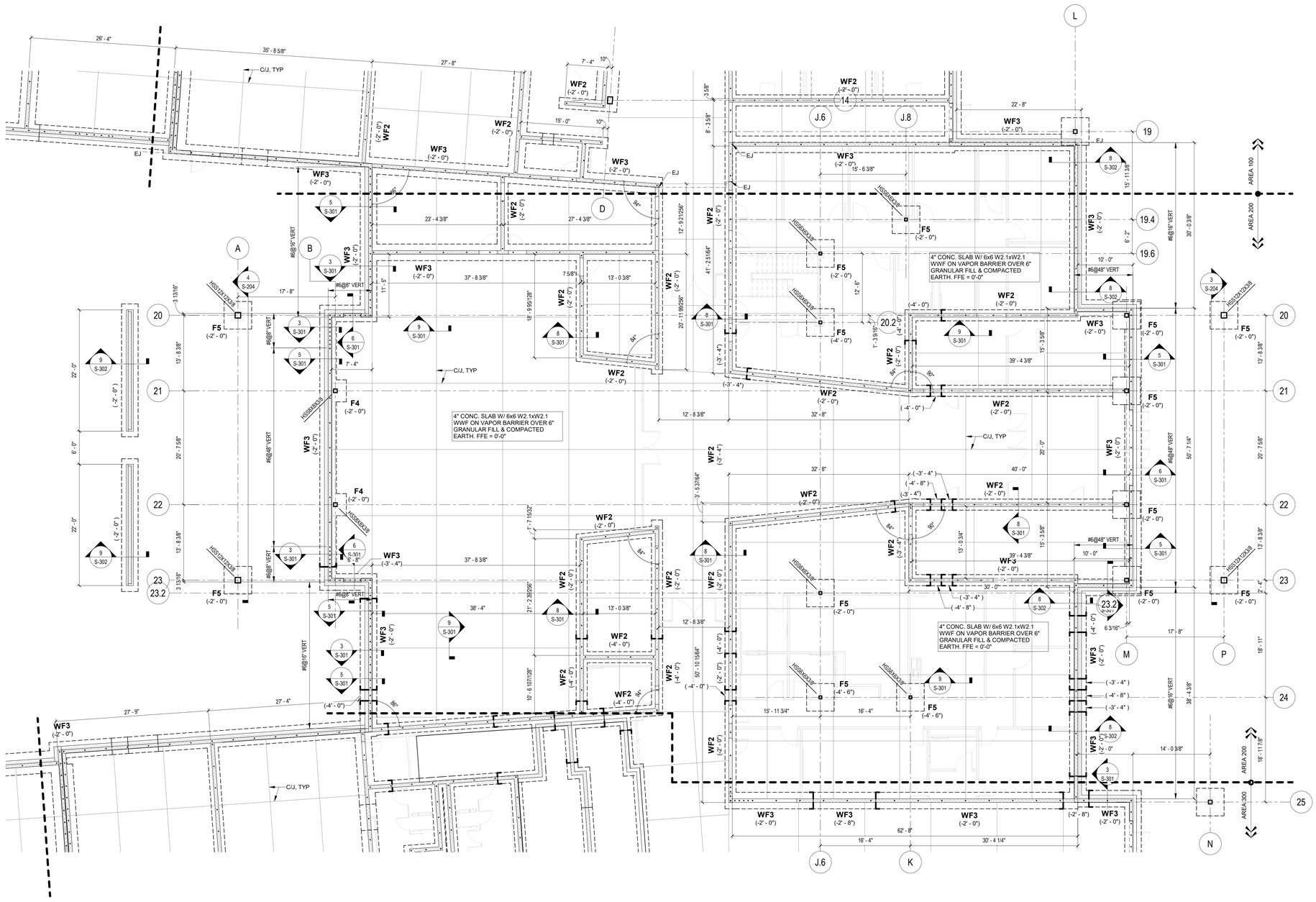
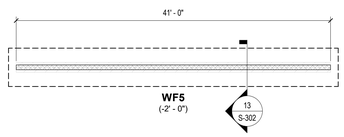


1 S-112 **FOUNDATION AND SLAB PLAN AREA 200**

SCALE: 1/8" = 1'-0"

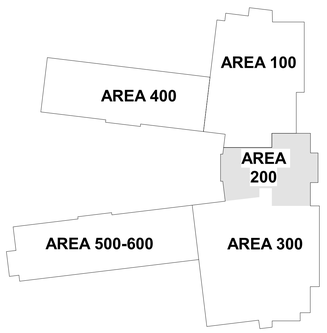
FOUNDATION PLAN NOTES:

1. NUMBER IN PARENTHESIS DENOTES TOP OF FOOTING BELOW FIN. FLOOR ELEVATION = 0'-0" (REF. 162.0').
2. **F#** DENOTES COLUMN/SPREAD FOOTING. SEE S-111 FOR SCHEDULE.
3. SEE S-201, S-202, AND S-203 FOR CMU WALL REINFORCING REQUIREMENTS.
4. IN ADDITION TO REINFORCING SHOWN ON THE DRAWINGS, PROVIDE (1) VERT. BAR(SAME SIZE AS WALL REINF. BARS) IN JAMBS OF ALL DOORS AND WINDOWS AND (1) #6 BAR EACH SIDE OF EXPANSION AND CONTROL JOINTS. SEE ARCH'L FOR JOINT LOCATIONS. SEE DETAIL 4/S-201 .
5. ⌐¬ DENOTES STEPPED FOOTING. SEE 11/S-301 FOR DETAIL. G.C. COORDINATE STEP LOCATIONS AND DEPTH W/ PLUMBING CONTRACTOR PRIOR TO FOOTING EXCAVATION. CONTRACTOR'S OPTION: TOP OF FOOTING ELEVATIONS MAY BE LOWERED BETWEEN STEP LOCATIONS TO REDUCE THE NUMBER OF STEPS REQUIRED. SUBMIT FOR APPROVAL.
6. PROVIDE #5@48" VERTICAL @ INTERIOR CMU WALLS U.O.N. SEE FOUNDATION PLAN FOR VERTICAL REINFORCING IN EXTERIOR CMU WALLS. REBAR SHOWN ON PLAN IS NOT DRAWN TO SCALE. REFER TO TEXT CALLOUTS FOR REBAR SPACING.
7. REFER TO ARCH'L DRAWINGS FOR INTERIOR WALL DIMENSIONS NOT SHOWN ON STRUCTURAL.
8. PROVIDE BOND BEAMS IN MASONRY WALLS @ 8'-0" MAX AND TOP COURSE OF ALL WALLS.
9. PROVIDE CORNER BARS IN BOND BEAMS AT WALL CORNERS AND INTERSECTIONS. LAP 2'-0".
10. VERIFY ELEVATOR PIT DEPTH AND DIMENSIONS W/ ELEVATOR SUPPLIER PRIOR TO EXCAVATION. SEE DETAIL 12/S-301 .



2 S-112 **ENTRANCE SIGN PLAN**

SCALE: 1/8" = 1'-0"



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FLATWOODS MIDDLE SCHOOL

JOEL JOHNSON ROAD/US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

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FOUNDATION AND SLAB PLAN AREA 200

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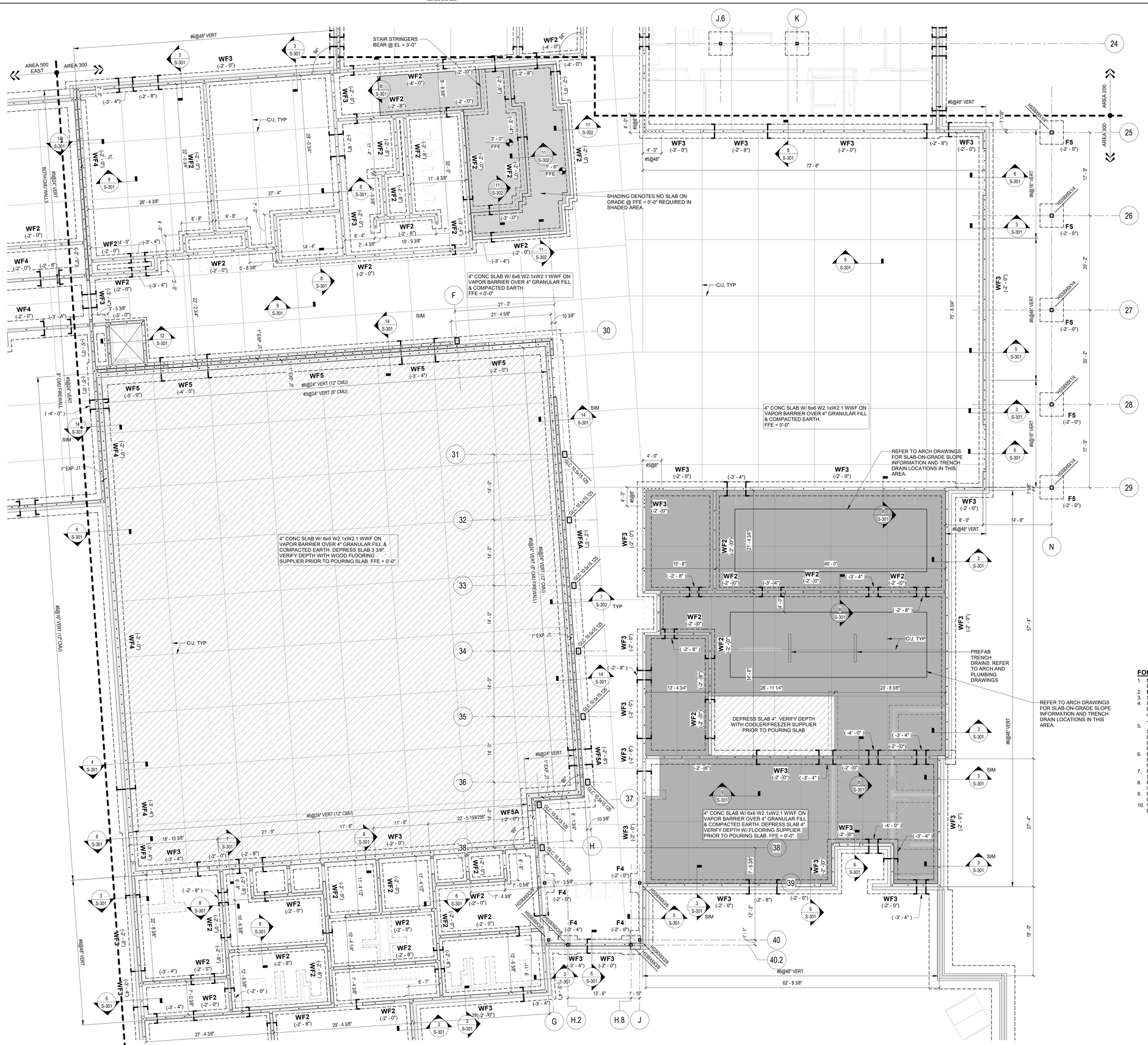
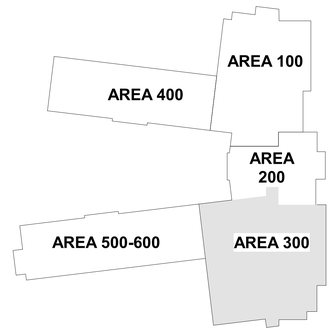


1 S-113 **FOUNDATION AND SLAB PLAN AREA 300**
SCALE: 1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. NUMBER IN PARENTHESIS DENOTES TOP OF FOOTING BELOW FIN. FLOOR ELEVATION = 0'-0" (REF. 162'-0").
2. F# DENOTES COLUMN/SPREAD FOOTING. SEE S-111 FOR SCHEDULE.
3. SEE S-201, S-202, AND S-203 FOR CMU WALL REINFORCING REQUIREMENTS.
4. IN ADDITION TO REINFORCING SHOWN ON THE DRAWINGS, PROVIDE (1) VERT. BAR(SAME SIZE AS WALL REINF. BARS) IN JAMBS OF ALL DOORS AND WINDOWS AND (1) #6 BAR EACH SIDE OF EXPANSION AND CONTROL JOINTS. SEE ARCH'L FOR JOINT LOCATIONS. SEE DETAIL 4/S-201
5. ⌐¬ DENOTES STEPPED FOOTING. SEE 11/S-301 FOR DETAIL. G.C. COORDINATE STEP LOCATIONS AND DEPTH W/ PLUMBING CONTRACTOR PRIOR TO FOOTING EXCAVATION. CONTRACTOR'S OPTION: TOP OF FOOTING ELEVATIONS MAY BE LOWERED BETWEEN STEP LOCATIONS TO REDUCE THE NUMBER OF STEPS REQUIRED. SUBMIT FOR APPROVAL.
6. PROVIDE #5@48" VERTICAL @ INTERIOR CMU WALLS U.O.N. SEE FOUNDATION PLAN FOR VERTICAL REINFORCING IN EXTERIOR CMU WALLS. REBAR SHOWN ON PLAN IS NOT DRAWN TO SCALE. REFER TO TEXT CALLOUTS FOR REBAR SPACING.
7. REFER TO ARCH'L DRAWINGS FOR INTERIOR WALL DIMENSIONS NOT SHOWN ON STRUCTURAL.
8. PROVIDE BOND BEAMS IN MASONRY WALLS @ 8'-0" MAX AND TOP COURSE OF ALL WALLS.
9. PROVIDE CORNER BARS IN BOND BEAMS AT WALL CORNERS AND INTERSECTIONS. LAP 2'-0".
10. VERIFY ELEVATOR PIT DEPTH AND DIMENSIONS W/ ELEVATOR SUPPLIER PRIOR TO EXCAVATION. SEE DETAIL 12/S-301 .



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FOUNDATION AND SLAB PLAN AREA 300

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1 / S-114 FOUNDATION AND SLAB PLAN AREA 400

SCALE: 1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. NUMBER IN PARENTHESIS DENOTES TOP OF FOOTING BELOW FIN. FLOOR ELEVATION = 0'-0" (REF. 162.0').
2. **F#** DENOTES COLUMN/SPREAD FOOTING. SEE S-111 FOR SCHEDULE.
3. SEE S-201, S-202, AND S-203 FOR CMU WALL REINFORCING REQUIREMENTS.
4. IN ADDITION TO REINFORCING SHOWN ON THE DRAWINGS, PROVIDE (1) VERT. BAR(SAME SIZE AS WALL REINF. BARS) IN JAMBS OF ALL DOORS AND WINDOWS AND (1) #6 BAR EACH SIDE OF EXPANSION AND CONTROL JOINTS. SEE ARCH'L FOR JOINT LOCATIONS. SEE DETAIL 4/S-201 .
5. ⌐ ¬ DENOTES STEPPED FOOTING. SEE 11/S-301 FOR DETAIL. G.C. COORDINATE STEP LOCATIONS AND DEPTH W/ PLUMBING CONTRACTOR PRIOR TO FOOTING EXCAVATION. CONTRACTOR'S OPTION: TOP OF FOOTING ELEVATIONS MAY BE LOWERED BETWEEN STEP LOCATIONS TO REDUCE THE NUMBER OF STEPS REQUIRED. SUBMIT FOR APPROVAL.
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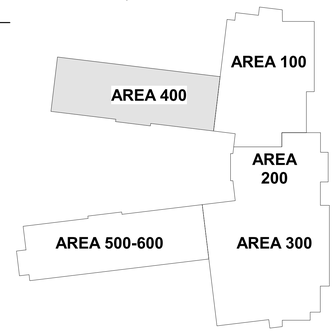
9. PROVIDE CORNER BARS IN BOND BEAMS AT WALL CORNERS AND INTERSECTIONS. LAP 2'-0".
10. VERIFY ELEVATOR PIT DEPTH AND DIMENSIONS W/ ELEVATOR SUPPLIER PRIOR TO EXCAVATION. SEE DETAIL 12/S-301 .



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FOUNDATION AND SLAB PLAN AREA 400

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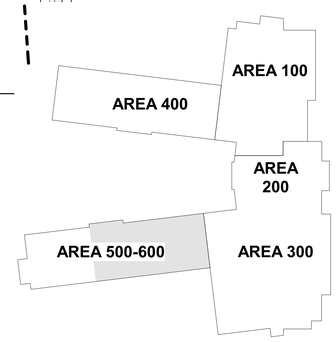
1 S-115A **FOUNDATION AND SLAB PLAN AREA 500 EAST**
SCALE: 1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. NUMBER IN PARENTHESIS DENOTES TOP OF FOOTING BELOW FIN. FLOOR ELEVATION = 0'-0" (REF. 162.0').
2. **F#** DENOTES COLUMN/SPREAD FOOTING. SEE S-111 FOR SCHEDULE.
3. SEE S-201, S-202, AND S-203 FOR CMU WALL REINFORCING REQUIREMENTS.
4. IN ADDITION TO REINFORCING SHOWN ON THE DRAWINGS, PROVIDE (1) VERT. BAR(SAME SIZE AS WALL REINF. BARS) IN JAMBS OF ALL DOORS AND WINDOWS AND (1) #6 BAR EACH SIDE OF EXPANSION AND CONTROL JOINTS. SEE ARCH'L FOR JOINT LOCATIONS. SEE DETAIL 4 / S-201.
5. ⌐¬ DENOTES STEPPED FOOTING. SEE 11 / S-301 FOR DETAIL. G.C. COORDINATE STEP LOCATIONS AND DEPTH W/ PLUMBING CONTRACTOR PRIOR TO FOOTING EXCAVATION. CONTRACTOR'S OPTION: TOP OF FOOTING ELEVATIONS MAY BE LOWERED BETWEEN STEP LOCATIONS TO REDUCE THE NUMBER OF STEPS REQUIRED. SUBMIT FOR APPROVAL.
6. PROVIDE #5@48" VERTICAL @ INTERIOR CMU WALLS U.O.N. SEE FOUNDATION PLAN FOR VERTICAL REINFORCING IN EXTERIOR CMU WALLS. REBAR SHOWN ON PLAN IS NOT DRAWN TO SCALE. REFER TO TEXT CALLOUTS FOR REBAR SPACING.
7. REFER TO ARCH'L DRAWINGS FOR INTERIOR WALL DIMENSIONS NOT SHOWN ON STRUCTURAL.
8. PROVIDE BOND BEAMS IN MASONRY WALLS @ 8'-0" MAX AND TOP COURSE OF ALL WALLS.
9. PROVIDE CORNER BARS IN BOND BEAMS AT WALL CORNERS AND INTERSECTIONS. LAP 2'-0".
10. VERIFY ELEVATOR PIT DEPTH AND DIMENSIONS W/ ELEVATOR SUPPLIER PRIOR TO EXCAVATION. SEE DETAIL 12 / S-301 .



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FOUNDATION AND SLAB PLAN AREA 500 EAST

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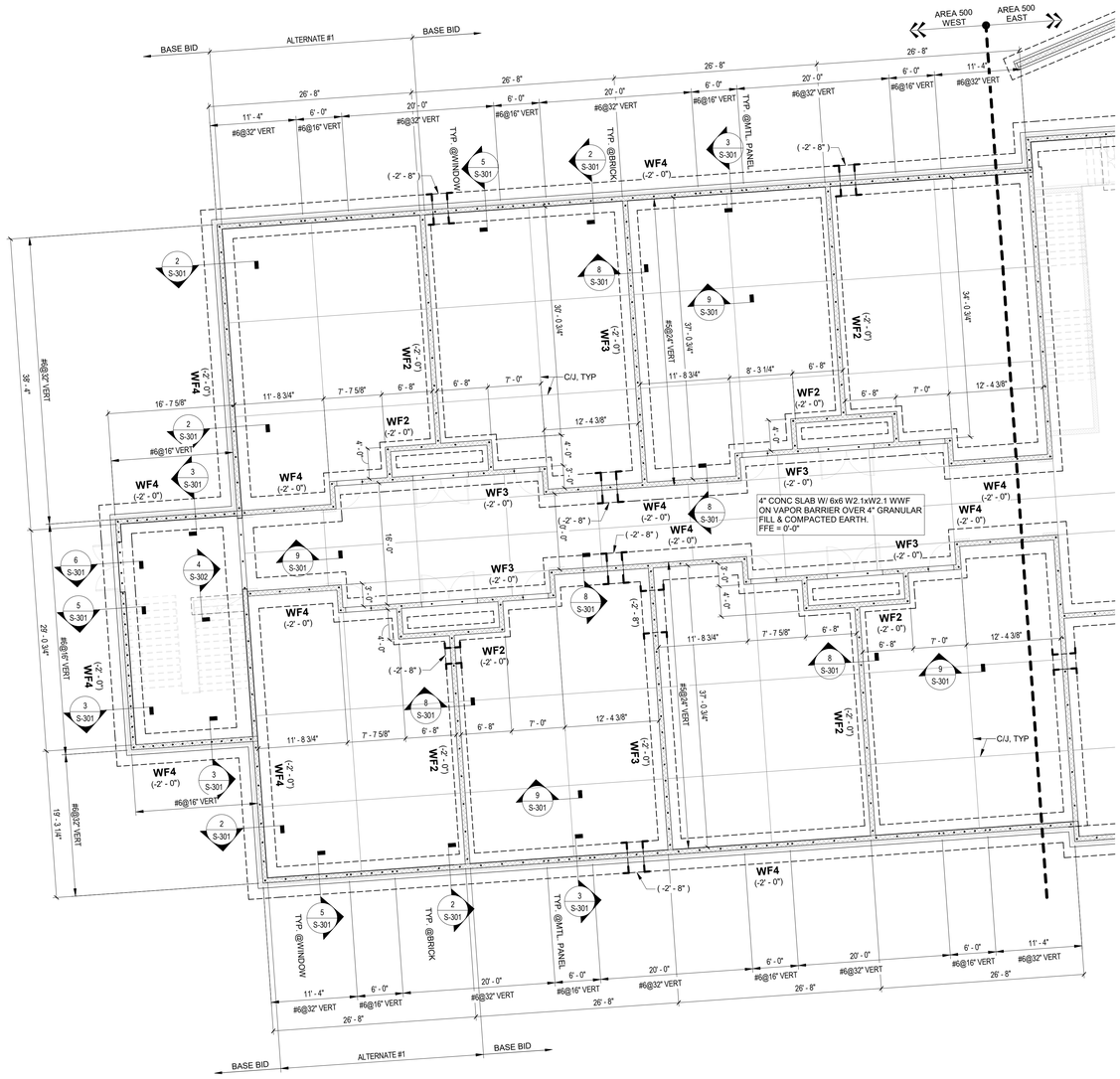
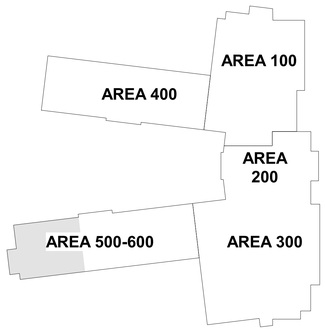


1 S-115B **FOUNDATION AND SLAB PLAN AREA 500 WEST**

SCALE: 1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. NUMBER IN PARENTHESIS DENOTES TOP OF FOOTING BELOW FIN. FLOOR ELEVATION = 0'-0" (REF. 162.0').
2. F# DENOTES COLUMN/SPREAD FOOTING. SEE S-111 FOR SCHEDULE.
3. SEE S-201, S-202, AND S-203 FOR CMU WALL REINFORCING REQUIREMENTS.
4. IN ADDITION TO REINFORCING SHOWN ON THE DRAWINGS, PROVIDE (1) VERT. BAR(SAME SIZE AS WALL REINF. BARS) IN JAMBS OF ALL DOORS AND WINDOWS AND (1) #6 BAR EACH SIDE OF EXPANSION AND CONTROL JOINTS. SEE ARCH'L FOR JOINT LOCATIONS. SEE DETAIL 4/S-201.
5. ⌐ ¬ DENOTES STEPPED FOOTING. SEE 11/S-301 FOR DETAIL. G.C. COORDINATE STEP LOCATIONS AND DEPTH W/ PLUMBING CONTRACTOR PRIOR TO FOOTING EXCAVATION. CONTRACTOR'S OPTION: TOP OF FOOTING ELEVATIONS MAY BE LOWERED BETWEEN STEP LOCATIONS TO REDUCE THE NUMBER OF STEPS REQUIRED. SUBMIT FOR APPROVAL.
6. PROVIDE #5@48" VERTICAL @ INTERIOR CMU WALLS U.O.N. SEE FOUNDATION PLAN FOR VERTICAL REINFORCING IN EXTERIOR CMU WALLS. REBAR SHOWN ON PLAN IS NOT DRAWN TO SCALE. REFER TO TEXT CALLOUTS FOR REBAR SPACING.
7. REFER TO ARCH'L DRAWINGS FOR INTERIOR WALL DIMENSIONS NOT SHOWN ON STRUCTURAL.
8. PROVIDE BOND BEAMS IN MASONRY WALLS @ 8'-0" MAX AND TOP COURSE OF ALL WALLS.
9. PROVIDE CORNER BARS IN BOND BEAMS AT WALL CORNERS AND INTERSECTIONS. LAP 2'-0".
10. VERIFY ELEVATOR PIT DEPTH AND DIMENSIONS W/ ELEVATOR SUPPLIER PRIOR TO EXCAVATION. SEE DETAIL 12/S-301 .



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FOUNDATION AND SLAB PLAN AREA 500 WEST

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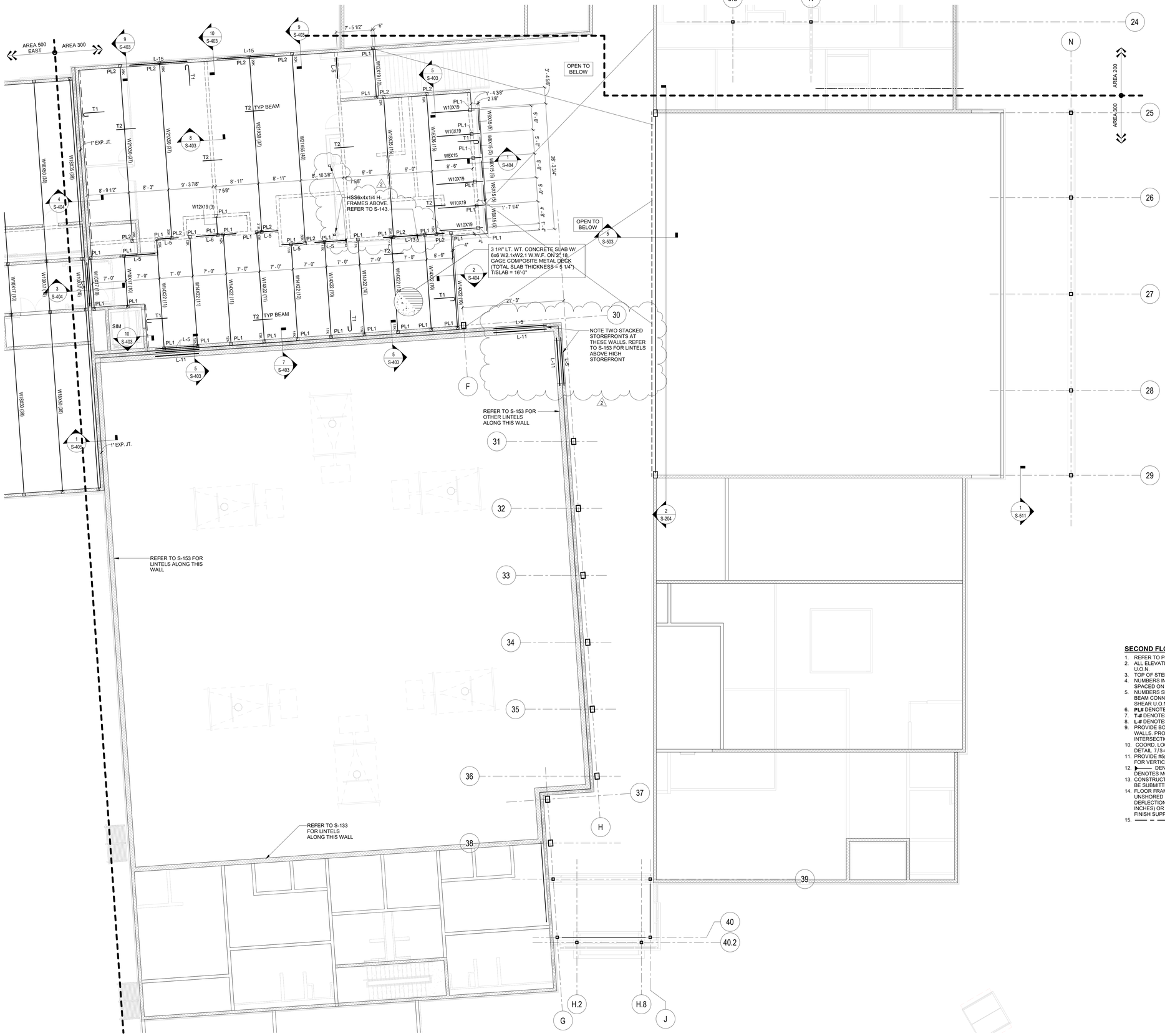
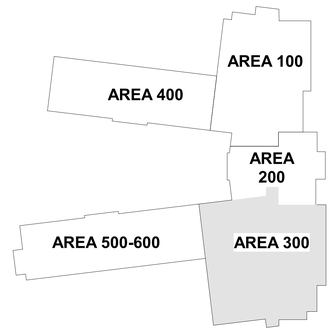


1 S-123 **SECOND FLOOR FRAMING PLAN AREA 300**
SCALE: 1/8" = 1'-0"

SECOND FLOOR PLAN NOTES:

1. REFER TO PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE REFERENCED FROM FIRST LEVEL FINISHED FLOOR (0'-0") U.O.N.
3. TOP OF STEEL = 5 1/4" BELOW FIN. FL. U.O.N.
4. NUMBERS IN PARENTHESIS DENOTES QUANTITY OF 3/4"Ø x 4" STUDS EQUALLY SPACED ON BEAM. SEE 8/S-401 FOR COMPOSITE BEAM LEGEND.
5. NUMBERS SHOWN THUS,^{10K}, DENOTES BEAM VERTICAL SHEAR REACTION IN KIPS. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 10k VERTICAL SHEAR U.O.N. ON PLAN. NOTED REACTIONS ARE SERVICE/UNFACTORED LOADS.
6. **PL#** DENOTES BEAM BEARING PLATE. SEE SCHEDULE ON S-201 . SEE DETAILS.
7. **T-#** DENOTES SLAB TOP BARS. SEE S-401 FOR SCHEDULE.
8. **L-#** DENOTES LOAD BEARING LINTEL. SEE SCHEDULE ON S-202.
9. PROVIDE BOND BEAMS IN MASONRY WALLS @ 8'-0" MAX. AND TOP COURSE OF ALL WALLS. PROVIDE CORNER BARS IN BOND BEAMS IN CORNERS AND INTERSECTIONS. SEE DETAILS ON 1/S-201 AND 2/S-201 .
10. COORD. LOCATIONS OF FLOOR OPENINGS W/ MECH'L CONTRACTOR. SEE DETAIL 7/S-401.
11. PROVIDE #5@48" VERTICAL @ INTERIOR CMU WALLS U.O.N. SEE FOUNDATION PLAN FOR VERTICAL REINFORCING IN EXTERIOR CMU WALLS.
12. ▶——— DENOTES A MOMENT CONNECTION. NUMBERS SHOWN THUS, 15k-ft, DENOTES MOMENT IN KIPS-FT (SERVICE LOADS).
13. CONSTRUCTION JOINTS IN ELEVATED CONCRETE ON METAL DECK POURS SHALL BE SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION. SEE DETAIL 2/S-401 .
14. FLOOR FRAMING AND COMPOSITE FLOOR DECK ARE DESIGNED TO REMAIN UNSHORED DURING CONCRETE PLACEMENT. ACCOUNT FOR AN EXPECTED DEFLECTION IN BEAMS AND GIRDERS OF UP TO 1/360 OF THE SPAN LENGTH (IN INCHES) OR 1", WHICHEVER IS LESS WHEN CALCULATING CONCRETE QUANITITES. FINISH SUPPORTED SLABS FLAT AND LEVEL.
15. ——— – – ——— DENOTES CONT. L6X4X3/8 LLV. REFER TO DETAIL 7/S-403 & 3/S-403.



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SECOND FLOOR FRAMING PLAN AREA 300

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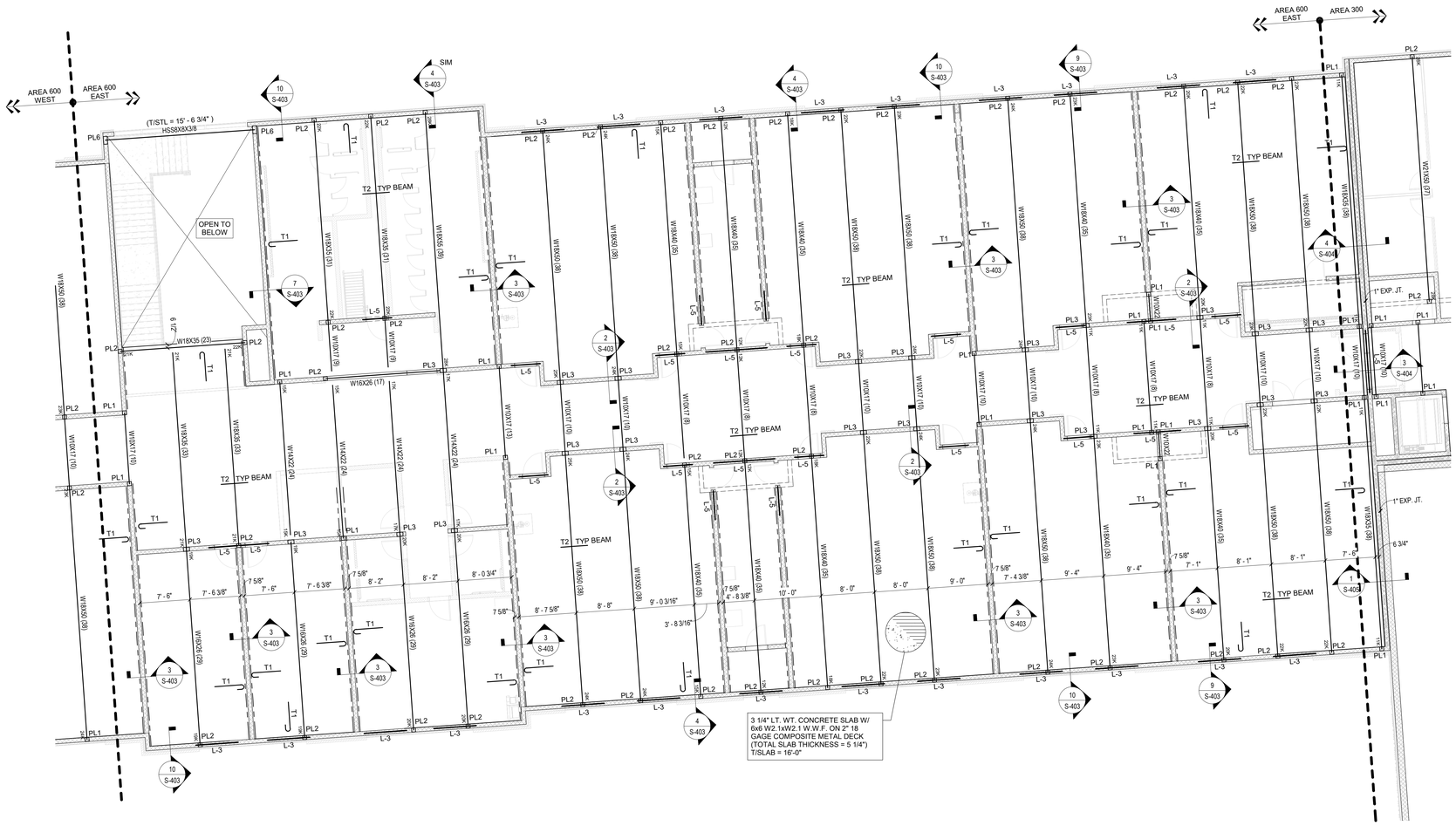
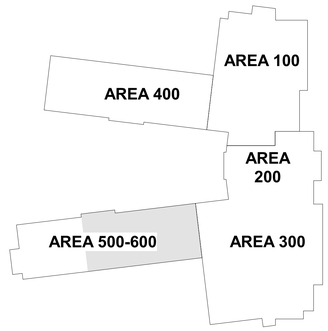


1 S-125A **SECOND FLOOR FRAMING PLAN AREA 600 EAST**

SCALE: 1/8" = 1'-0"

SECOND FLOOR PLAN NOTES:

1. REFER TO PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE REFERENCED FROM FIRST LEVEL FINISHED FLOOR (0'-0") U.O.N.
3. TOP OF STEEL = 5 1/4" BELOW FIN. FL. U.O.N.
4. NUMBERS IN PARENTHESIS DENOTES QUANTITY OF 3/4"Ø x 4" STUDS EQUALLY SPACED ON BEAM. SEE 8/S-401 FOR COMPOSITE BEAM LEGEND.
5. NUMBERS SHOWN THUS,^{16k} DENOTES BEAM VERTICAL SHEAR REACTION IN KIPS. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 10k VERTICAL SHEAR U.O.N. ON PLAN. NOTED REACTIONS ARE SERVICE/UNFACTORED LOADS.
6. **PL#** DENOTES BEAM BEARING PLATE. SEE SCHEDULE ON S-201 . SEE DETAILS.
7. **T-#** DENOTES SLAB TOP BARS. SEE S-401 FOR SCHEDULE.
8. **L-#** DENOTES LOAD BEARING LINTEL. SEE SCHEDULE ON S-202.
9. PROVIDE BOND BEAMS IN MASONRY WALLS @ 8'-0" MAX. AND TOP COURSE OF ALL WALLS. PROVIDE CORNER BARS IN BOND BEAMS IN CORNERS AND INTERSECTIONS. SEE DETAILS ON 1/S-201 AND 2/S-201.
10. COORD. LOCATIONS OF FLOOR OPENINGS W/ MECH'L CONTRACTOR. SEE DETAIL 7/S-401.
11. PROVIDE #5@48" VERTICAL @ INTERIOR CMU WALLS U.O.N. SEE FOUNDATION PLAN FOR VERTICAL REINFORCING IN EXTERIOR CMU WALLS.
12. ▶—— DENOTES A MOMENT CONNECTION. NUMBERS SHOWN THUS, 15k-ft, DENOTES MOMENT IN KIPS-FT (SERVICE LOADS).
13. CONSTRUCTION JOINTS IN ELEVATED CONCRETE ON METAL DECK POURS SHALL BE SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION. SEE DETAIL 2/S-401
14. FLOOR FRAMING AND COMPOSITE FLOOR DECK ARE DESIGNED TO REMAIN UNSHORED DURING CONCRETE PLACEMENT. ACCOUNT FOR AN EXPECTED DEFLECTION IN BEAMS AND GIRDERS OF UP TO 1/360 OF THE SPAN LENGTH (IN INCHES) OR 1", WHICHEVER IS LESS WHEN CALCULATING CONCRETE QUANTITES. FINISH SUPPORTED SLABS FLAT AND LEVEL.
15. —— – —— DENOTES CONT. L6X4X3/8 LLV. REFER TO DETAIL 7/S-403 & 3/S-403.



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CONSTRUCTION DOCUMENTS

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JOEL JOHNSON ROAD/US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

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SECOND FLOOR FRAMING PLAN AREA 600 EAST

S-125A

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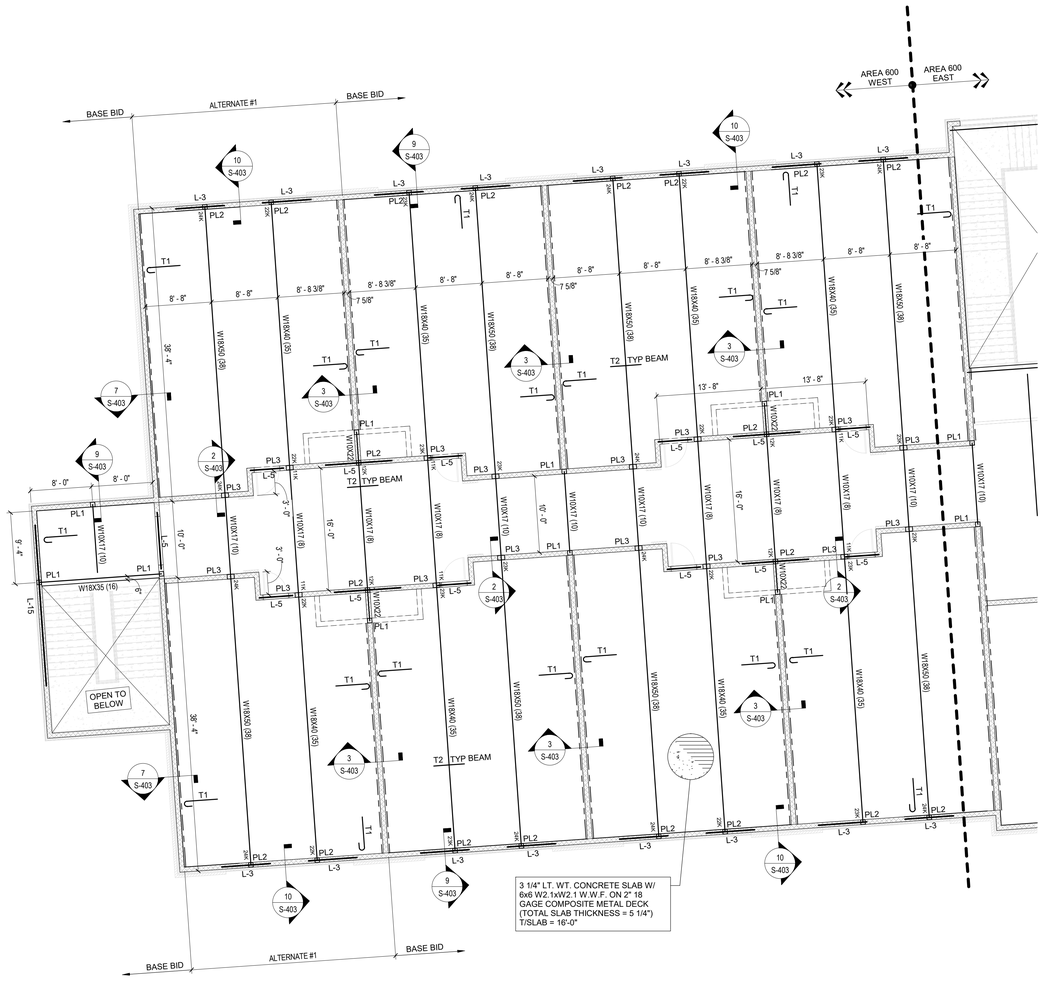
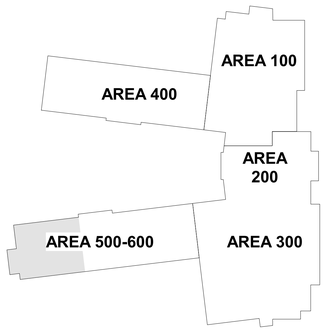


1 S-125B **SECOND FLOOR FRAMING PLAN AREA 600 WEST**
SCALE: 1/8" = 1'-0"

SECOND FLOOR PLAN NOTES:

1. REFER TO PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE REFERENCED FROM FIRST LEVEL FINISHED FLOOR (0'-0") U.O.N.
3. TOP OF STEEL = 5 1/4" BELOW FIN. FL. U.O.N.
4. NUMBERS IN PARENTHESIS DENOTES QUANTITY OF 3/4"Ø x 4" STUDS EQUALLY SPACED ON BEAM. SEE 8/S-401 FOR COMPOSITE BEAM LEGEND.
5. NUMBERS SHOWN THUS, $^{15}/_{36}$, DENOTES BEAM VERTICAL SHEAR REACTION IN KIPS. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 10k VERTICAL SHEAR U.O.N. ON PLAN. NOTED REACTIONS ARE SERVICE/UNFACTORED LOADS.
6. **PL#** DENOTES BEAM BEARING PLATE. SEE SCHEDULE ON S-201 . SEE DETAILS.
7. **T-#** DENOTES SLAB TOP BARS. SEE S-401 FOR SCHEDULE.
8. **L-#** DENOTES LOAD BEARING LINTEL. SEE SCHEDULE ON S-202.
9. PROVIDE BOND BEAMS IN MASONRY WALLS @ 8'-0" MAX. AND TOP COURSE OF ALL WALLS. PROVIDE CORNER BARS IN BOND BEAMS IN CORNERS AND INTERSECTIONS. SEE DETAILS ON 1/S-201 AND 2/S-201.
10. COORD. LOCATIONS OF FLOOR OPENINGS W/ MECH'L CONTRACTOR. SEE DETAIL 7/S-401.
11. PROVIDE #5@48" VERTICAL @ INTERIOR CMU WALLS U.O.N. SEE FOUNDATION PLAN FOR VERTICAL REINFORCING IN EXTERIOR CMU WALLS.
12. ▶—— DENOTES A MOMENT CONNECTION. NUMBERS SHOWN THUS, 15k-ft, DENOTES MOMENT IN KIPS-FT (SERVICE LOADS).
13. CONSTRUCTION JOINTS IN ELEVATED CONCRETE ON METAL DECK POURS SHALL BE SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION. SEE DETAIL 2/S-401 .
14. FLOOR FRAMING AND COMPOSITE FLOOR DECK ARE DESIGNED TO REMAIN UNSHORED DURING CONCRETE PLACEMENT. ACCOUNT FOR AN EXPECTED DEFLECTION IN BEAMS AND GIRDERS OF UP TO 1/360 OF THE SPAN LENGTH (IN INCHES) OR 1", WHICHEVER IS LESS WHEN CALCULATING CONCRETE QUANITITES. FINISH SUPPORTED SLABS FLAT AND LEVEL.
15. —— – —— DENOTES CONT. L6X4X3/8 LLV. REFER TO DETAIL 7/S-403 & 3/S-403.



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CONSTRUCTION DOCUMENTS

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FLATWOODS MIDDLE SCHOOL

JOEL JOHNSON ROAD/US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

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SECOND FLOOR FRAMING PLAN AREA 600 WEST

S-125B

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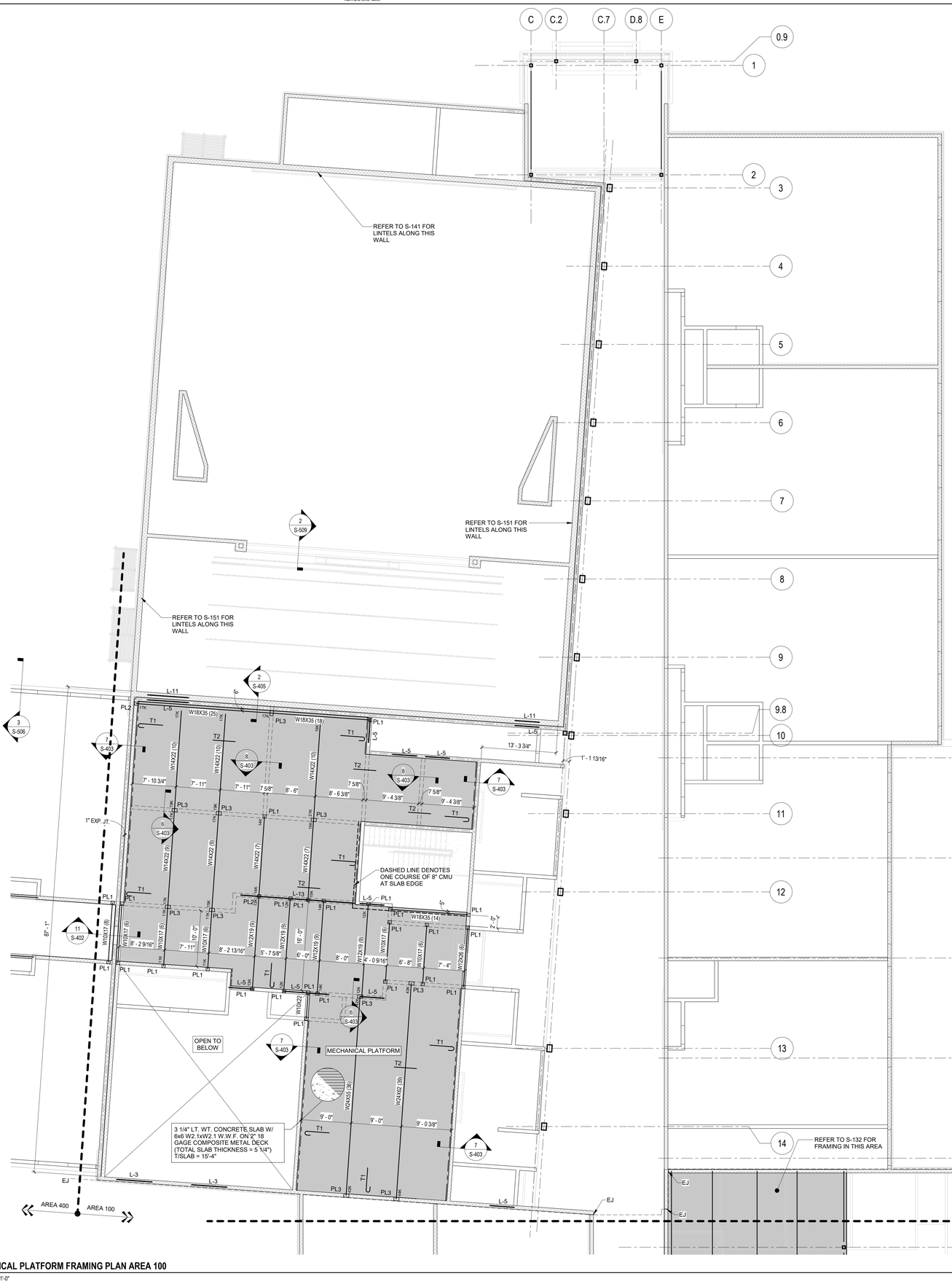

MECHANICAL PLATFORM PLAN NOTES:

1. SEE PLAN FOR FIN. FLOOR ELEV. AND MECHANICAL PLATFORM SLAB CONSTRUCTION. FOR 8" TOTAL SLAB THICKNESS (5" LW. WT. CONCRETE + 3" DECK) TOP OF STEEL ELEVATION = 8" BELOW F.F.E. FOR 5 1/4" TOTAL SLAB THICKNESS (3 1/4" LW. WT. CONCRETE + 2" DECK) TOP OF STEEL ELEVATION = 5 1/4" BELOW F.F.E.
2. ALL ELEVATIONS ARE REFERENCED FROM FIRST LEVEL FINISHED FLOOR (0'-0).
3. NUMBER IN BRACKETS ON STEEL BEAMS DENOTES QUANTITY OF EQUALLY SPACED 3/4"Ø HEADED STUDS. STUD LENGTH SHALL BE 4" LONG FOR 5 1/4" SLAB THICKNESS AND 6" LONG FOR 8" SLAB THICKNESS. SEE DETAIL 8/S-401 FOR COMPOSITE BEAM LEGEND.
4. NUMBERS SHOWN THUS,^{10k}, DENOTES BEAM VERTICAL SHEAR REACTION IN KIPS. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 10k VERTICAL SHEAR U.O.N. ON PLAN. NOTED REACTIONS ARE SERVICE/UNFACTORED LOADS.
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6. **T#** DENOTES SLAB TOP BARS. SEE S-401 FOR SCHEDULE.
7. **L-#** DENOTES LOAD BEARING LINTELS. SEE SCHEDULE ON S-202 .
8. PROVIDE BOND BEAMS IN MASONRY WALLS @ 8'-0" MAX. AND TOP COURSE OF ALL WALLS. PROVIDE CORNER BARS IN BOND BEAMS IN CORNERS AND INTERSECTIONS. SEE DETAILS 1/S-201 AND 2/S-201 .
9. FRAME FLOOR OPENINGS W/ L6x4x3/8. COORD. LOCATION W/ MECH'L CONTRACTOR. SEE DETAIL -/- .
10. PROVIDE #5@48" VERTICAL @ INTERIOR CMU WALLS U.O.N. SEE FOUNDATION PLAN FOR VERTICAL REINFORCING IN EXTERIOR CMU WALLS.
11. CONSTRUCTION JOINTS IN ELEVATED CONCRETE ON METAL DECK POURS SHALL BE SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION. SEE DETAIL 2/S-401
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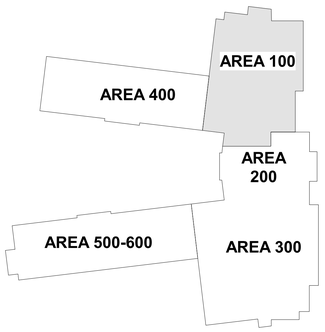
13. ——— – ——— DENOTES CONT. L6X4X3/8 LLV. REFER TO DETAIL 7/S-403 & 3/S-403 .



1 S-131 **MECHANICAL PLATFORM FRAMING PLAN AREA 100**
SCALE: 1/8" = 1'-0"

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MECHANICAL PLATFORM FRAMING PLAN AREA 100

S-131

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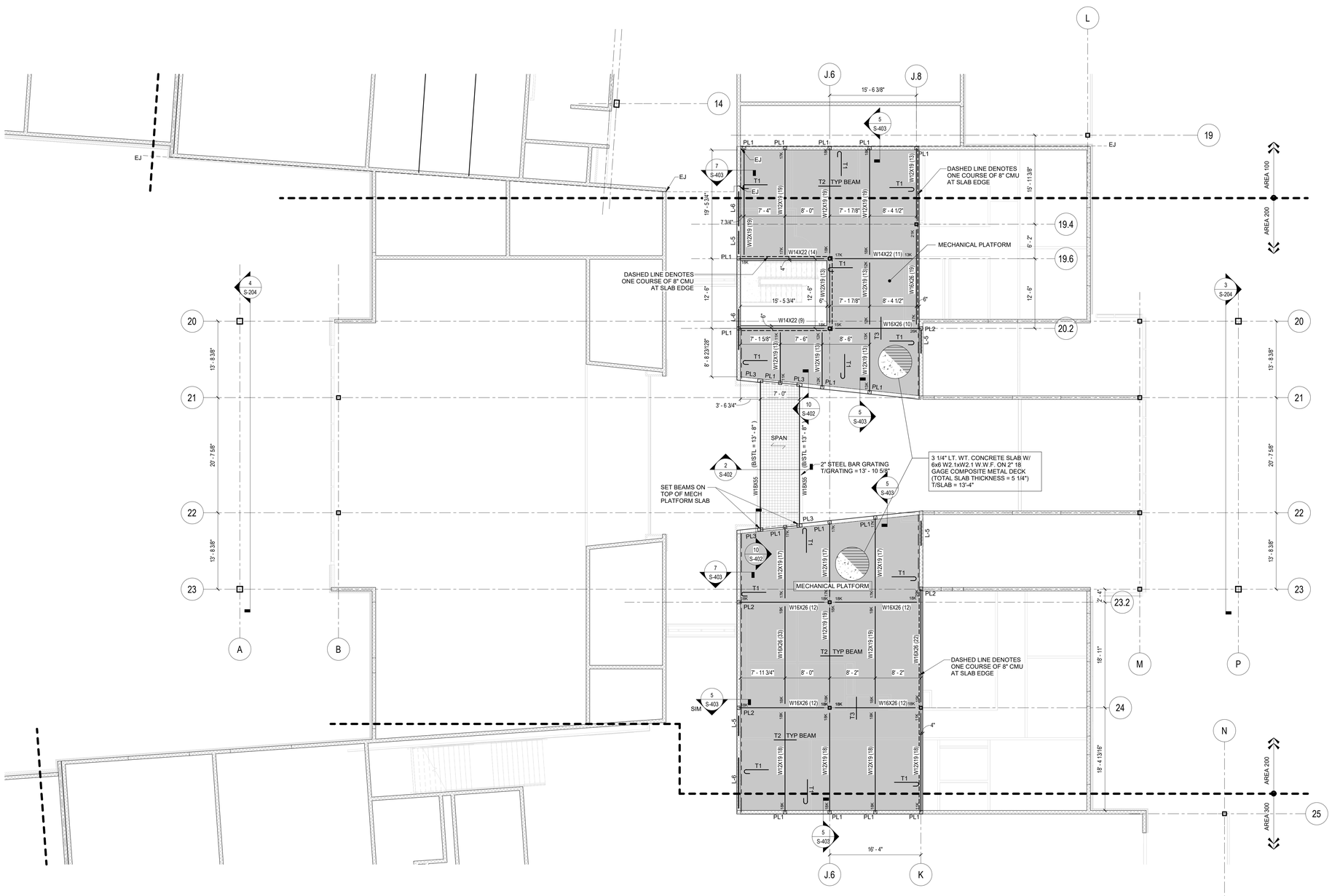

1 S-132 **MECHANICAL PLATFORM FRAMING PLAN AREA 200**

SCALE: 1/8" = 1'-0"

MECHANICAL PLATFORM PLAN NOTES:

1. SEE PLAN FOR FIN. FLOOR ELEV. AND MECHANICAL PLATFORM SLAB CONSTRUCTION. FOR 8" TOTAL SLAB THICKNESS (5" LW. WT. CONCRETE + 3" DECK) TOP OF STEEL ELEVATION = 8" BELOW F.F.E. FOR 5 1/4" TOTAL SLAB THICKNESS (3 1/4" LW. WT. CONCRETE + 2" DECK) TOP OF STEEL ELEVATION = 5 1/4" BELOW F.F.E.
2. ALL ELEVATIONS ARE REFERENCED FROM FIRST LEVEL FINISHED FLOOR (0'-0).
3. NUMBER IN BRACKETS ON STEEL BEAMS DENOTES QUANTITY OF EQUALLY SPACED 3/4"Ø HEADED STUDS. STUD LENGTH SHALL BE 4" LONG FOR 5 1/4" SLAB THICKNESS AND 6" LONG FOR 8" SLAB THICKNESS. SEE DETAIL 8/S-401 FOR COMPOSITE BEAM LEGEND.
4. NUMBERS SHOWN THUS,^{10k}, DENOTES BEAM VERTICAL SHEAR REACTION IN KIPS. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 10k VERTICAL SHEAR U.O.N. ON PLAN. NOTED REACTIONS ARE SERVICE/UNFACTORED LOADS.
5. **PL#** DENOTES BEAM BEARING PLATE. SEE SCHEDULE ON S-201. SEE DETAILS
6. **T#** DENOTES SLAB TOP BARS. SEE S-401 FOR SCHEDULE.
7. **L-#** DENOTES LOAD BEARING LINTELS. SEE SCHEDULE ON S-202.
8. PROVIDE BOND BEAMS IN MASONRY WALLS @ 8'-0" MAX. AND TOP COURSE OF ALL WALLS. PROVIDE CORNER BARS IN BOND BEAMS IN CORNERS AND INTERSECTIONS. SEE DETAILS 1/S-201 AND 2/S-201 .
9. FRAME FLOOR OPENINGS W/ L6x4x3/8. COORD. LOCATION W/ MECH'L CONTRACTOR. SEE DETAIL - / ---
10. PROVIDE #5@48" VERTICAL @ INTERIOR CMU WALLS U.O.N. SEE FOUNDATION PLAN FOR VERTICAL REINFORCING IN EXTERIOR CMU WALLS.
11. CONSTRUCTION JOINTS IN ELEVATED CONCRETE ON METAL DECK POURS SHALL BE SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION. SEE DETAIL 2/S-401 .
12. FLOOR FRAMING AND COMPOSITE FLOOR DECK ARE DESIGNED TO REMAIN UNSHORED DURING CONCRETE PLACEMENT. ACCOUTN FOR AN EXPECTED DEFLECTION IN BEAMS AND GIRDERS OF UP TO 1/360 OF THE SPAN LENGTH (IN INCHES) OR 1", WHICHEVER IS LESS WHEN CALCULATING CONCRETE QUANITITES. FINISH SUPPORTED SLABS FLAT AND LEVEL.
13. —— – —— DENOTES CONT. L6X4X3/8 LLV. REFER TO DETAIL 7/S-403 & 3/S-403 .

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MECHANICAL PLATFORM FRAMING PLAN AREA 200

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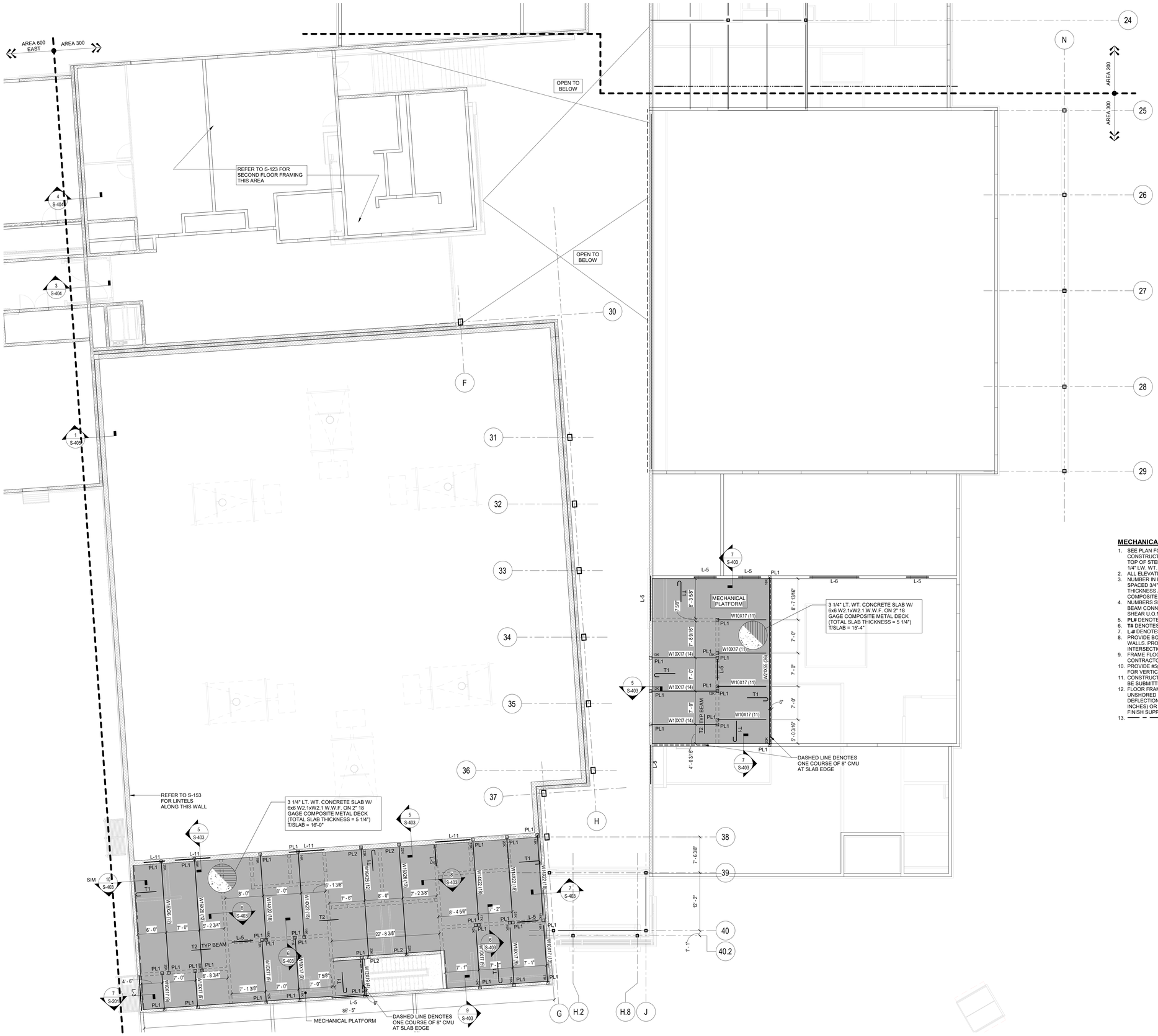
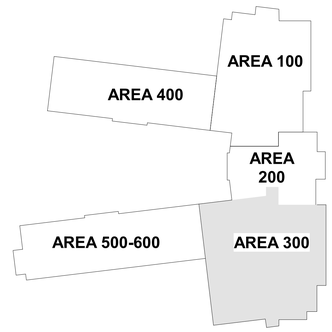


1 S-133 **MECHANICAL PLATFORM FRAMING PLAN AREA 300**
SCALE: 1/8" = 1'-0"

MECHANICAL PLATFORM PLAN NOTES:

1. SEE PLAN FOR FIN. FLOOR ELEV. AND MECHANICAL PLATFORM SLAB CONSTRUCTION. FOR 8" TOTAL SLAB THICKNESS (5" LW. WT. CONCRETE + 3" DECK) TOP OF STEEL ELEVATION = 8" BELOW F.F.E. FOR 5 1/4" TOTAL SLAB THICKNESS (3 1/4" LW. WT. CONCRETE + 2" DECK) TOP OF STEEL ELEVATION = 5 1/4" BELOW F.F.E.
2. ALL ELEVATIONS ARE REFERENCED FROM FIRST LEVEL FINISHED FLOOR (0'-0).
3. NUMBER IN BRACKETS ON STEEL BEAMS DENOTES QUANTITY OF EQUALLY SPACED 3/4"Ø HEADED STUDS. STUD LENGTH SHALL BE 4" LONG FOR 5 1/4" SLAB THICKNESS AND 6" LONG FOR 8" SLAB THICKNESS. SEE DETAIL 8/S-401 FOR COMPOSITE BEAM LEGEND.
4. NUMBERS SHOWN THUS,$^{10K}_{12K}$ DENOTES BEAM VERTICAL SHEAR REACTION IN KIPS. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 10k VERTICAL SHEAR U.O.N. ON PLAN. NOTED REACTIONS ARE SERVICE/UNFACTORED LOADS.
5. **PL#** DENOTES BEAM BEARING PLATE. SEE SCHEDULE ON S-201. SEE DETAILS
6. **T#** DENOTES SLAB TOP BARS. SEE S-401 FOR SCHEDULE.
7. **L-#** DENOTES LOAD BEARING LINTELS. SEE SCHEDULE ON S-202.
8. PROVIDE BOND BEAMS IN MASONRY WALLS @ 8'-0" MAX. AND TOP COURSE OF ALL WALLS. PROVIDE CORNER BARS IN BOND BEAMS IN CORNERS AND INTERSECTIONS. SEE DETAILS 1/S-201 AND 2/S-201
9. FRAME FLOOR OPENINGS W/ L6x4x3/8. COORD. LOCATION W/ MECH'L CONTRACTOR. SEE DETAIL -/--.
10. PROVIDE #5@48" VERTICAL @ INTERIOR CMU WALLS U.O.N. SEE FOUNDATION PLAN FOR VERTICAL REINFORCING IN EXTERIOR CMU WALLS.
11. CONSTRUCTION JOINTS IN ELEVATED CONCRETE ON METAL DECK POURS SHALL BE SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION. SEE DETAIL 2/S-401 .
12. FLOOR FRAMING AND COMPOSITE FLOOR DECK ARE DESIGNED TO REMAIN UNSHORED DURING CONCRETE PLACEMENT. ACCOUTN FOR AN EXPECTED DEFLECTION IN BEAMS AND GIRDERS OF UP TO 1/360 OF THE SPAN LENGTH (IN INCHES) OR 1", WHICHEVER IS LESS WHEN CALCULATING CONCRETE QUANITITES. FINISH SUPPORTED SLABS FLAT AND LEVEL.
13. —— – —— DENOTES CONT. L6X4X3/8 LLV. REFER TO DETAIL 7/S-403 & 3/S-403 .



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FLATWOODS MIDDLE SCHOOL

JOEL JOHNSON ROAD/US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

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MECHANICAL PLATFORM FRAMING PLAN AREA 300

S-133

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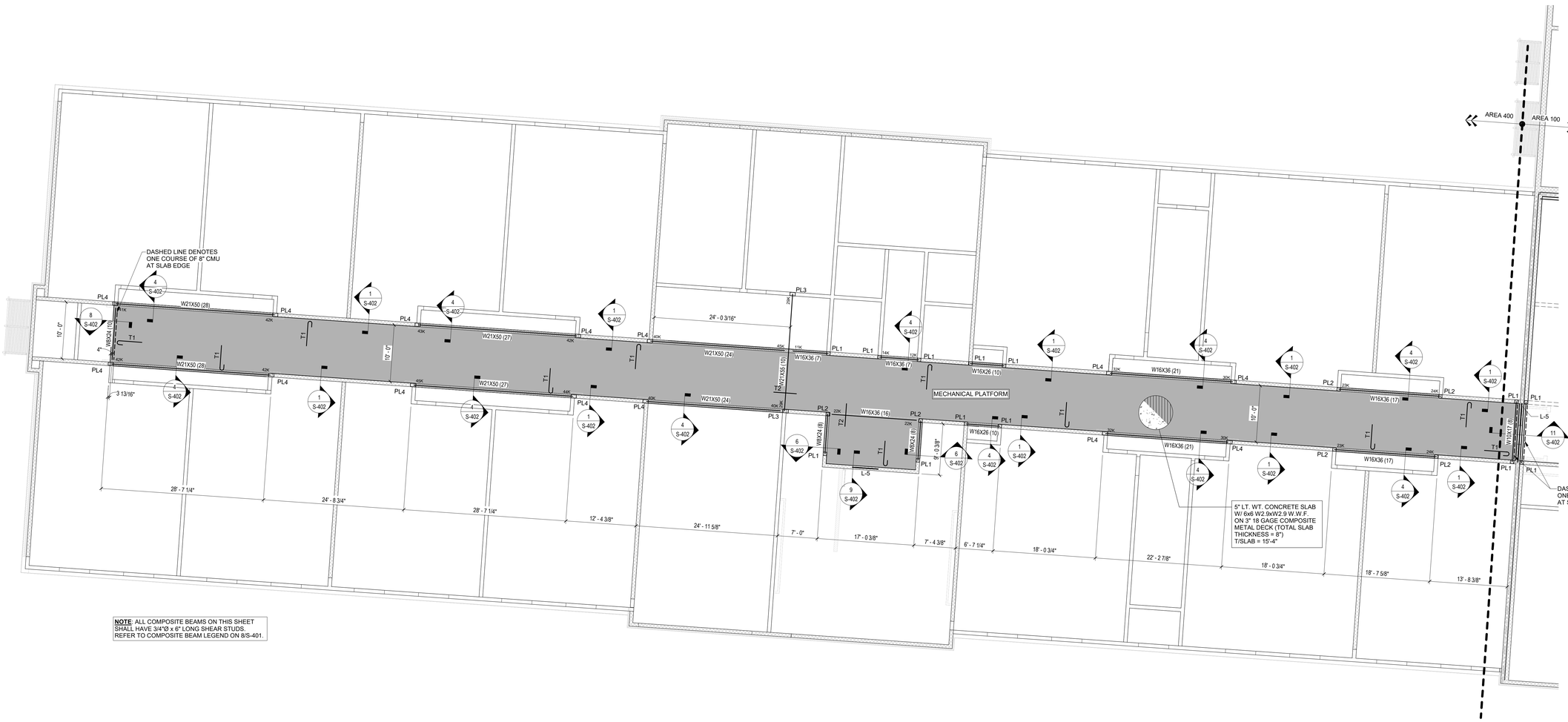

NOTE: ALL COMPOSITE BEAMS ON THIS SHEET SHALL HAVE 3/4"Ø x 6" LONG SHEAR STUDS. REFER TO COMPOSITE BEAM LEGEND ON 8/S-401.

1 / S-134 MECHANICAL PLATFORM FRAMING PLAN AREA 400

SCALE: 1/8" = 1'-0"

MECHANICAL PLATFORM PLAN NOTES:

1. SEE PLAN FOR FIN. FLOOR ELEV. AND MECHANICAL PLATFORM SLAB CONSTRUCTION. FOR 8" TOTAL SLAB THICKNESS (5" LW. WT. CONCRETE + 3" DECK) TOP OF STEEL ELEVATION = 8" BELOW F.F.E. FOR 5 1/4" TOTAL SLAB THICKNESS (3 1/4" LW. WT. CONCRETE + 2" DECK) TOP OF STEEL ELEVATION = 5 1/4" BELOW F.F.E.
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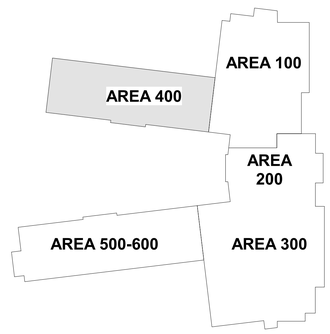
10. PROVIDE #5@48" VERTICAL @ INTERIOR CMU WALLS U.O.N. SEE FOUNDATION PLAN FOR VERTICAL REINFORCING IN EXTERIOR CMU WALLS.
11. CONSTRUCTION JOINTS IN ELEVATED CONCRETE ON METAL DECK POURS SHALL BE SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION. SEE DETAIL 2/S-401
12. FLOOR FRAMING AND COMPOSITE FLOOR DECK ARE DESIGNED TO REMAIN UNSHORED DURING CONCRETE PLACEMENT. ACCOUTN FOR AN EXPECTED DEFLECTION IN BEAMS AND GIRDERS OF UP TO 1/360 OF THE SPAN LENGTH (IN INCHES) OR 1", WHICHEVER IS LESS WHEN CALCULATING CONCRETE QUANITITES. FINISH SUPPORTED SLABS FLAT AND LEVEL.
13. —— – —— DENOTES CONT. L6X4X3/8 LLV. REFER TO DETAIL 7/S-403 & 3/S-403.



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MECHANICAL PLATFORM FRAMING PLAN AREA 400

S-134

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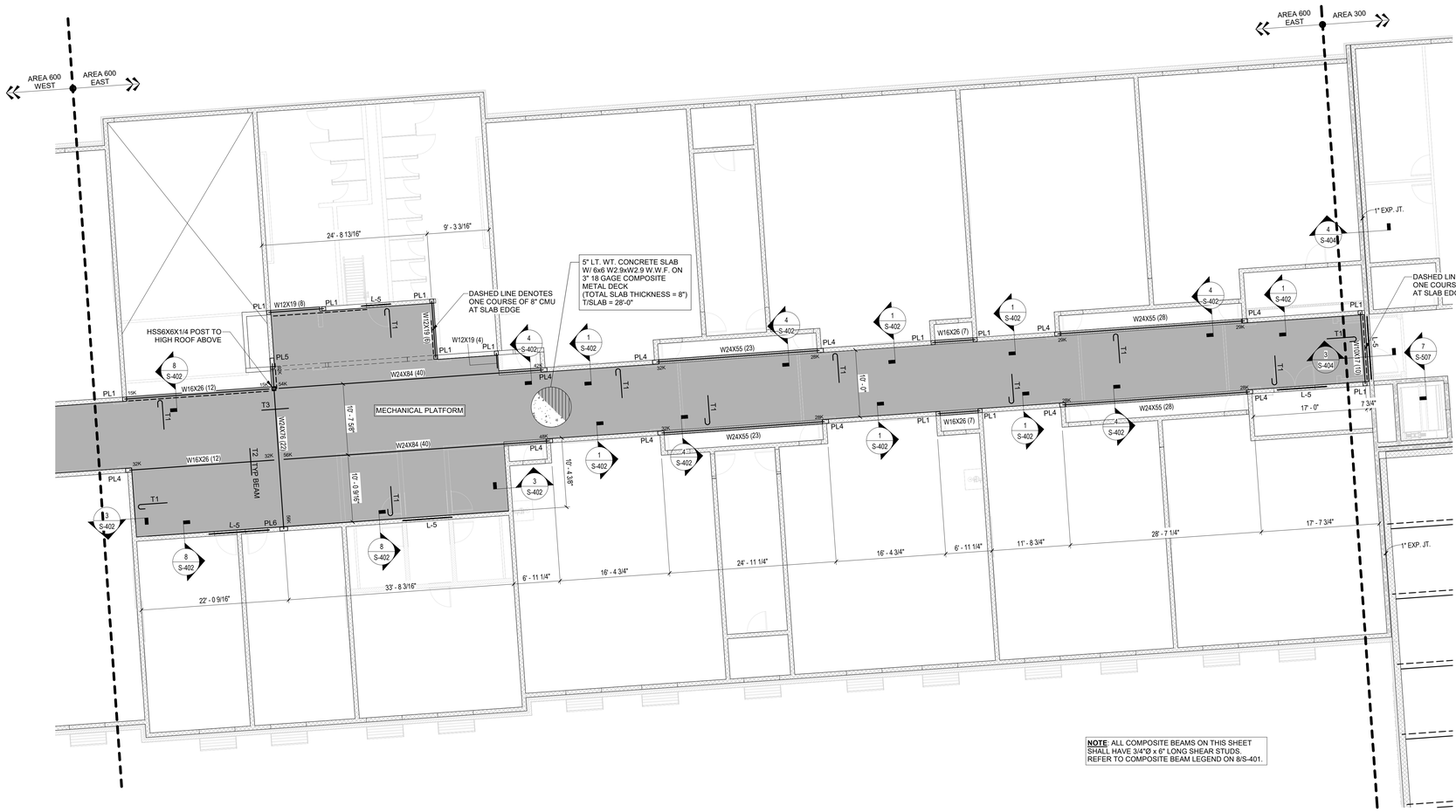

1 / S-135A MECHANICAL PLATFORM FRAMING PLAN AREA 500-600 EAST

SCALE: 1/8" = 1'-0"

MECHANICAL PLATFORM PLAN NOTES:

1. SEE PLAN FOR FIN. FLOOR ELEV. AND MECHANICAL PLATFORM SLAB CONSTRUCTION. FOR 8" TOTAL SLAB THICKNESS (5" LW. WT. CONCRETE + 3" DECK) TOP OF STEEL ELEVATION = 8" BELOW F.F.E. FOR 5 1/4" TOTAL SLAB THICKNESS (3 1/4" LW. WT. CONCRETE + 2" DECK) TOP OF STEEL ELEVATION = 5 1/4" BELOW F.F.E.
2. ALL ELEVATIONS ARE REFERENCED FROM FIRST LEVEL FINISHED FLOOR (0'-0).
3. NUMBER IN BRACKETS ON STEEL BEAMS DENOTES QUANTITY OF EQUALLY SPACED 3/4"Ø HEADED STUDS. STUD LENGTH SHALL BE 4" LONG FOR 5 1/4" SLAB THICKNESS AND 6" LONG FOR 8" SLAB THICKNESS. SEE DETAIL 8/S-401 FOR COMPOSITE BEAM LEGEND.
4. NUMBERS SHOWN THUS,^{15k}. DENOTES BEAM VERTICAL SHEAR REACTION IN KIPS. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 10k VERTICAL SHEAR U.O.N. ON PLAN. NOTED REACTIONS ARE SERVICE/UNFACTORED LOADS.
5. **PL#** DENOTES BEAM BEARING PLATE. SEE SCHEDULE ON S-201. SEE DETAILS
6. **T#** DENOTES SLAB TOP BARS. SEE S-401 FOR SCHEDULE.
7. **L-#** DENOTES LOAD BEARING LINTELS. SEE SCHEDULE ON S-202.
8. PROVIDE BOND BEAMS IN MASONRY WALLS @ 8'-0" MAX. AND TOP COURSE OF ALL WALLS. PROVIDE CORNER BARS IN BOND BEAMS IN CORNERS AND INTERSECTIONS. SEE DETAILS 1/S-201 AND 2/S-201 .
9. FRAME FLOOR OPENINGS W/ L6x4x3/8. COORD. LOCATION W/ MECH'L CONTRACTOR. SEE DETAIL /—
10. PROVIDE #5@48" VERTICAL @ INTERIOR CMU WALLS U.O.N. SEE FOUNDATION PLAN FOR VERTICAL REINFORCING IN EXTERIOR CMU WALLS.
11. CONSTRUCTION JOINTS IN ELEVATED CONCRETE ON METAL DECK POURS SHALL BE SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION. SEE DETAIL 2/S-401 .
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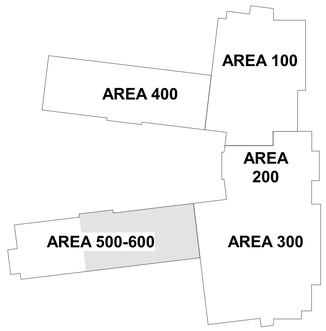
13. ——— ‒ ——— DENOTES CONT. L6X4X3/8 LLV. REFER TO DETAIL 7/S-403 & 3/S-403 .



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JOEL JOHNSON ROAD/US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

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MECHANICAL PLATFORM FRAMING PLAN AREA 500-600 EAST

S-135A

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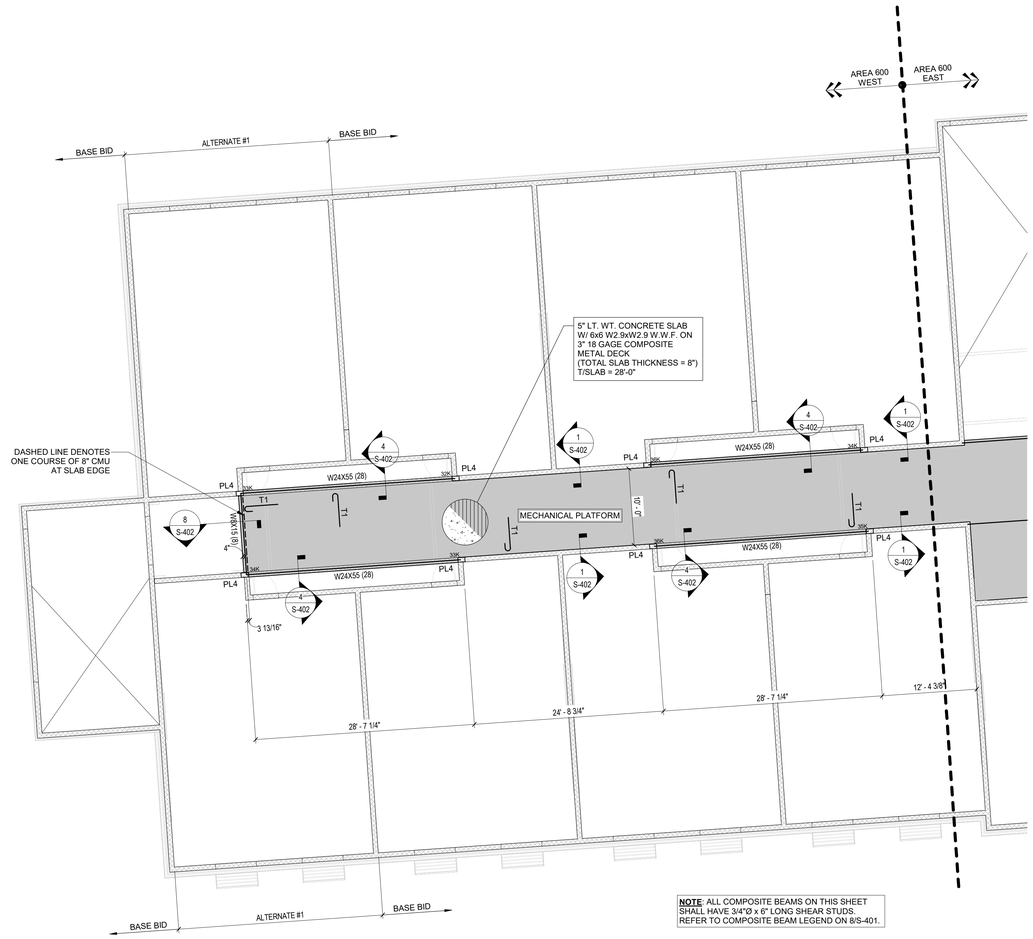

NOTE: ALL COMPOSITE BEAMS ON THIS SHEET SHALL HAVE 3/4"Ø x 6" LONG SHEAR STUDS. REFER TO COMPOSITE BEAM LEGEND ON 8/S-401.

1 / S-135B **MECHANICAL PLATFORM FRAMING PLAN AREA 500-600 WEST**

SCALE: 1/8" = 1'-0"

MECHANICAL PLATFORM PLAN NOTES:

1. SEE PLAN FOR FIN. FLOOR ELEV. AND MECHANICAL PLATFORM SLAB CONSTRUCTION. FOR 8" TOTAL SLAB THICKNESS (5" LW. WT. CONCRETE + 3" DECK) TOP OF STEEL ELEVATION = 8" BELOW F.F.E. FOR 5 1/4" TOTAL SLAB THICKNESS (3 1/4" LW. WT. CONCRETE + 2" DECK) TOP OF STEEL ELEVATION = 5 1/4" BELOW F.F.E.
2. ALL ELEVATIONS ARE REFERENCED FROM FIRST LEVEL FINISHED FLOOR (0'-0).
3. NUMBER IN BRACKETS ON STEEL BEAMS DENOTES QUANTITY OF EQUALLY SPACED 3/4"Ø HEADED STUDS. STUD LENGTH SHALL BE 4" LONG FOR 5 1/4" SLAB THICKNESS AND 6" LONG FOR 8" SLAB THICKNESS. SEE DETAIL 8/S-401 FOR COMPOSITE BEAM LEGEND.
4. NUMBERS SHOWN THUS,^k, DENOTES BEAM VERTICAL SHEAR REACTION IN KIPS. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 10k VERTICAL SHEAR U.O.N. ON PLAN. NOTED REACTIONS ARE SERVICE/UNFACTORED LOADS.
5. **PL#** DENOTES BEAM BEARING PLATE. SEE SCHEDULE ON S-201, SEE DETAILS
6. **T#** DENOTES SLAB TOP BARS. SEE S-401 FOR SCHEDULE.
7. **L-#** DENOTES LOAD BEARING LINTELS. SEE SCHEDULE ON S-202.
8. PROVIDE BOND BEAMS IN MASONRY WALLS @ 8'-0" MAX. AND TOP COURSE OF ALL WALLS. PROVIDE CORNER BARS IN BOND BEAMS IN CORNERS AND INTERSECTIONS. SEE DETAILS 1/S-201 AND 2/S-201.
9. FRAME FLOOR OPENINGS W/ L6x4x3/8. COORD. LOCATION W/ MECH'L CONTRACTOR. SEE DETAIL -/---
10. PROVIDE #5@48" VERTICAL @ INTERIOR CMU WALLS U.O.N. SEE FOUNDATION PLAN FOR VERTICAL REINFORCING IN EXTERIOR CMU WALLS.
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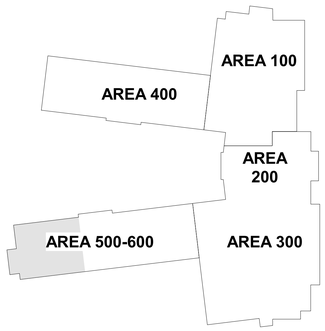
13. —— – —— DENOTES CONT. L6X4X3/8 LLV. REFER TO DETAIL 7/S-403 & 3/S-403 .



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NORTH CAROLINA PROFESSIONAL 037412 ENGINEER TIMOTHY K. HILTON 11-8-24

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FLATWOODS MIDDLE SCHOOL

JOEL JOHNSON ROAD/US 401 S, LILLINGTON NC 27546

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MECHANICAL PLATFORM FRAMING PLAN AREA 500-600 WEST

S-135B

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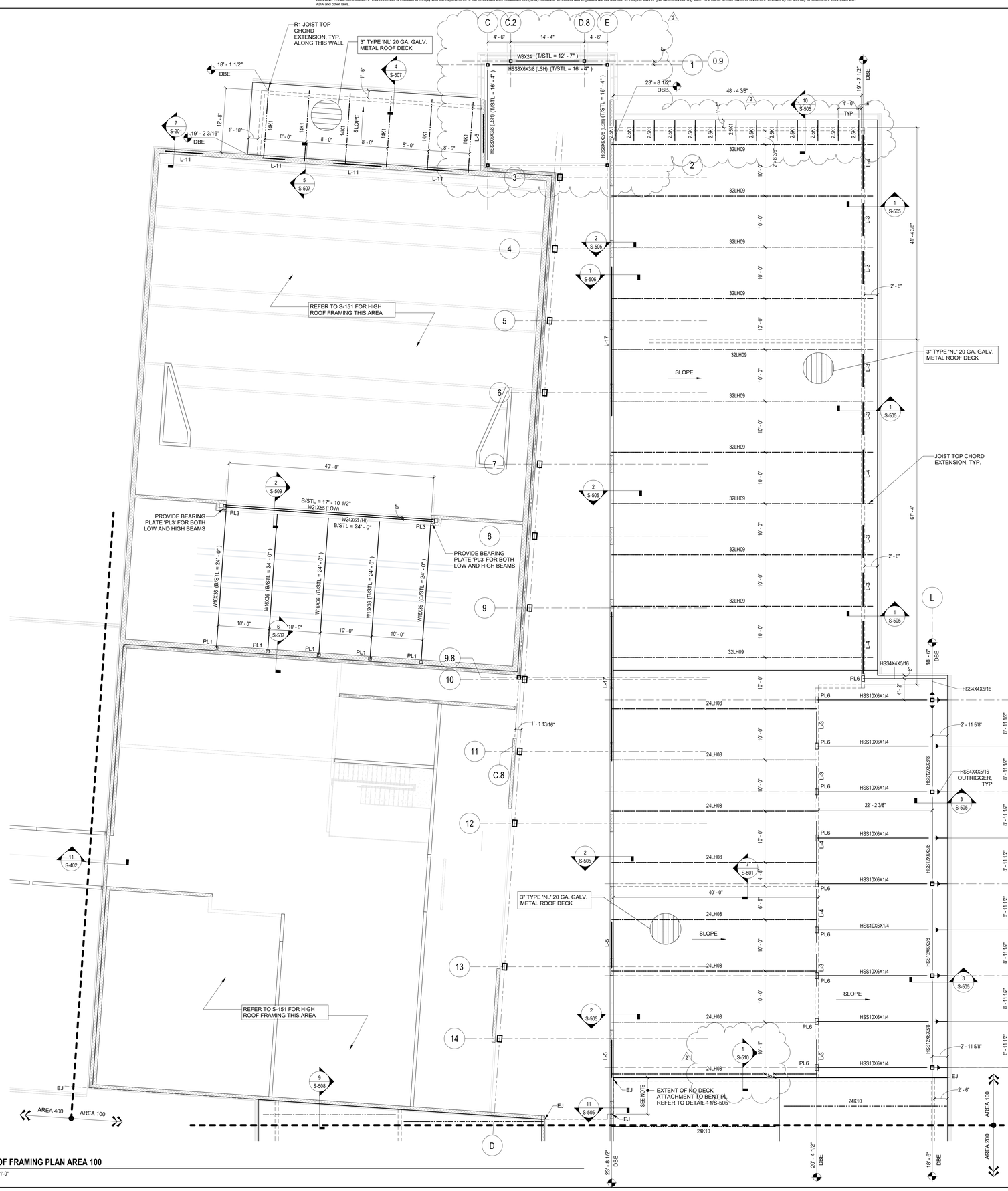
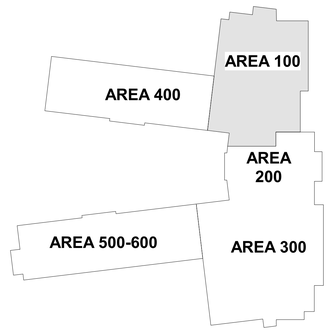


1 S-141 **LOW ROOF FRAMING PLAN AREA 100**
SCALE: 1/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. ——◔—— DENOTES ROOF DECK BEARING ELEVATION (DBE) U.O.N. ABOVE FIRST LEVEL FIN. FLOOR ELEV. = 0'-0".
2. [-X"] DENOTES TOP OF STEEL BELOW DECK BEARING ELEVATION.
3. NUMBERS SHOWN THUS,^{10k}, DENOTES BEAM VERTICAL SHEAR REACTION IN KIPS. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 10k VERTICAL SHEAR U.O.N. ON PLAN. NOTED REACTIONS ARE SERVICE/UNFACTORED LOADS.
4. **PL#** DENOTES BEAM BEARING PLATE. SEE SCHEDULE ON S-201. SEE DETAILS.
5. **L-#** DENOTES LOAD BEARING OR EXTERIOR LINTEL. SEE SCHEDULE ON S-202.
6. PROVIDE BOND BEAMS IN MASONRY WALLS @ 8'-0" MAX. AND TOP COURSE OF ALL WALLS. PROVIDE CORNER BARS IN BOND BEAMS IN CORNERS AND INTERSECTIONS. SEE DETAILS ON 1/S-201 AND 2/S-201.
7. ▶—— DENOTES A MOMENT CONNECTION. NUMBERS SHOWN THUS, 15k-ft, DENOTES MOMENT IN KIPS-FT (SERVICE LOADS).
8. FRAME ROOF OPENINGS W/ L4x4x5/16. COORD. LOCATION W/ MECH'L CONTRACTOR. SEE DETAIL 12/S-501.
9. DO NOT HANG ANYTHING FROM ROOF DECK.
10. REFER TO S-501 FOR ROOF DECK ATTACHMENT PATTERN.
11. HATCHED AREA DENOTES CFS JOISTS @ 16" OC TOPPED WITH 3/4" PLYWOOD TO SUPPORT CEILING AND MECHANICAL EQUIPMENT. COLD FORMED STEEL STUD CEILING JOISTS, AS WELL AS ANY REQUIRED GIRDERS SHALL BE DESIGNED FOR THE EQUIPMENT WEIGHT IN ADDITION TO 10 PSF DEAD LOAD AND 40 PSF LIVE LOAD. COORDINATE EQUIPMENT WEIGHT AND LOCATION WITH MECHANICAL CONTRACTOR.



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LOW ROOF FRAMING PLAN AREA 100

S-141

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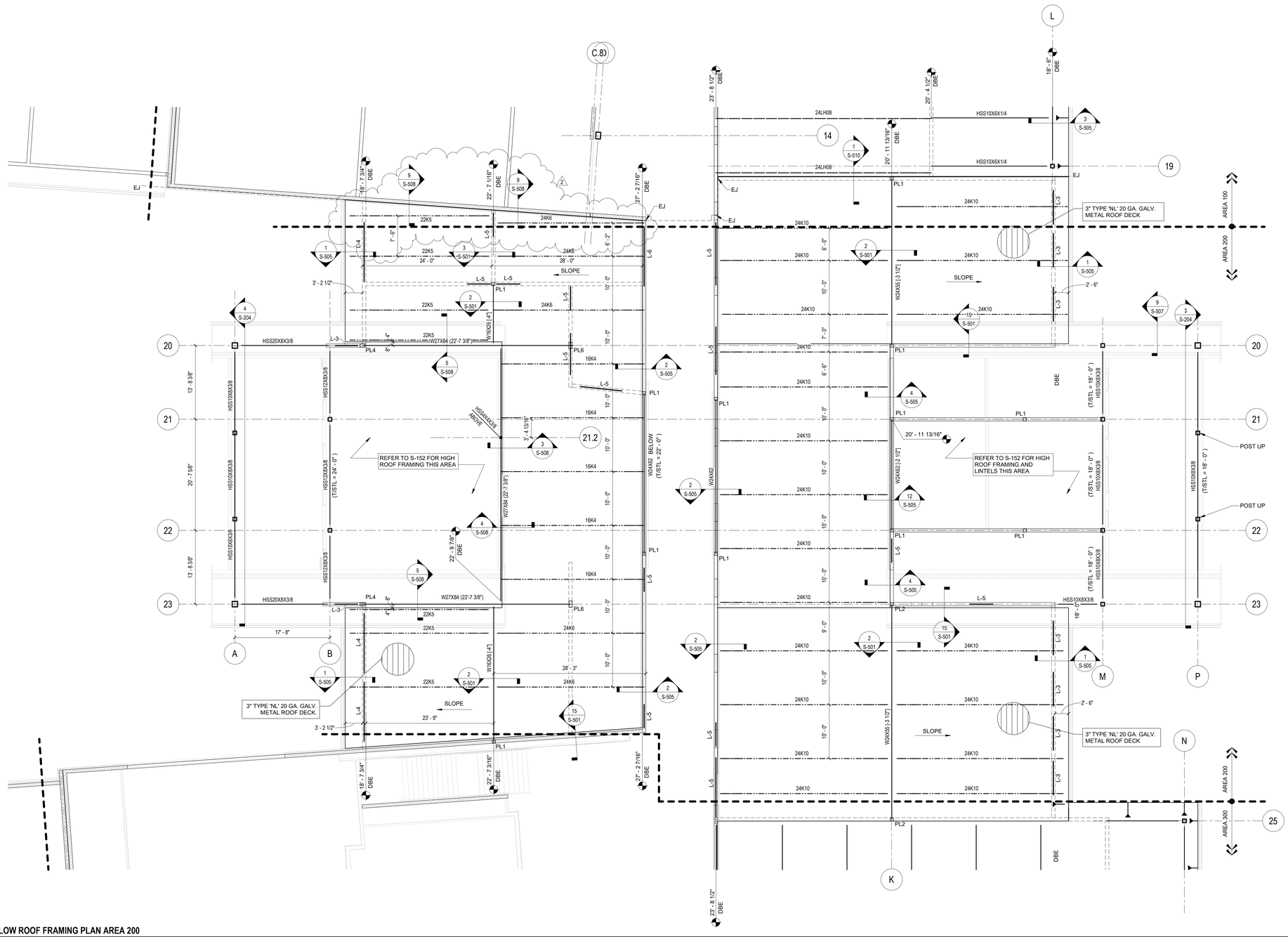
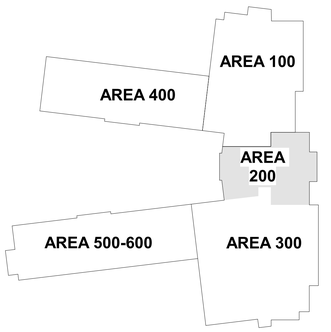


1 / S-142 **LOW ROOF FRAMING PLAN AREA 200**

SCALE: 1/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. ▽ DENOTES ROOF DECK BEARING ELEVATION (DBE) U.O.N. ABOVE FIRST LEVEL FIN. FLOOR ELEV. = 0'-0".
2. [-X"] DENOTES TOP OF STEEL BELOW DECK BEARING ELEVATION.
3. NUMBERS SHOWN THUS, ^{16K}, DENOTES BEAM VERTICAL SHEAR REACTION IN KIPS. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 10k VERTICAL SHEAR U.O.N. ON PLAN. NOTED REACTIONS ARE SERVICE/UNFACTORED LOADS.
4. **PL#** DENOTES BEAM BEARING PLATE. SEE SCHEDULE ON S-201. SEE DETAILS.
5. **L-#** DENOTES LOAD BEARING OR EXTERIOR LINTEL. SEE SCHEDULE ON S-202.
6. PROVIDE BOND BEAMS IN MASONRY WALLS @ 8'-0" MAX. AND TOP COURSE OF ALL WALLS. PROVIDE CORNER BARS IN BOND BEAMS IN CORNERS AND INTERSECTIONS. SEE DETAILS ON 1/S-201 AND 2/S-201.
7. ▶—— DENOTES A MOMENT CONNECTION. NUMBERS SHOWN THUS, 15k-ft, DENOTES MOMENT IN KIPS-FT (SERVICE LOADS).
8. FRAME ROOF OPENINGS W/ L4x4x5/16. COORD. LOCATION W/ MECH'L CONTRACTOR. SEE DETAIL 12/S-501.
9. DO NOT HANG ANYTHING FROM ROOF DECK.
10. REFER TO S-501 FOR ROOF DECK ATTACHMENT PATTERN.
11. HATCHED AREA DENOTES CFS JOISTS @ 16" OC TOPPED WITH 3/4" PLYWOOD TO SUPPORT CEILING AND MECHANICAL EQUIPMENT. COLD FORMED STEEL STUD CEILING JOISTS, AS WELL AS ANY REQUIRED GIRDERS SHALL BE DESIGNED FOR THE EQUIPMENT WEIGHT IN ADDITION TO 10 PSF DEAD LOAD AND 40 PSF LIVE LOAD. COORDINATE EQUIPMENT WEIGHT AND LOCATION WITH MECHANICAL CONTRACTOR.



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LOW ROOF FRAMING PLAN AREA 200

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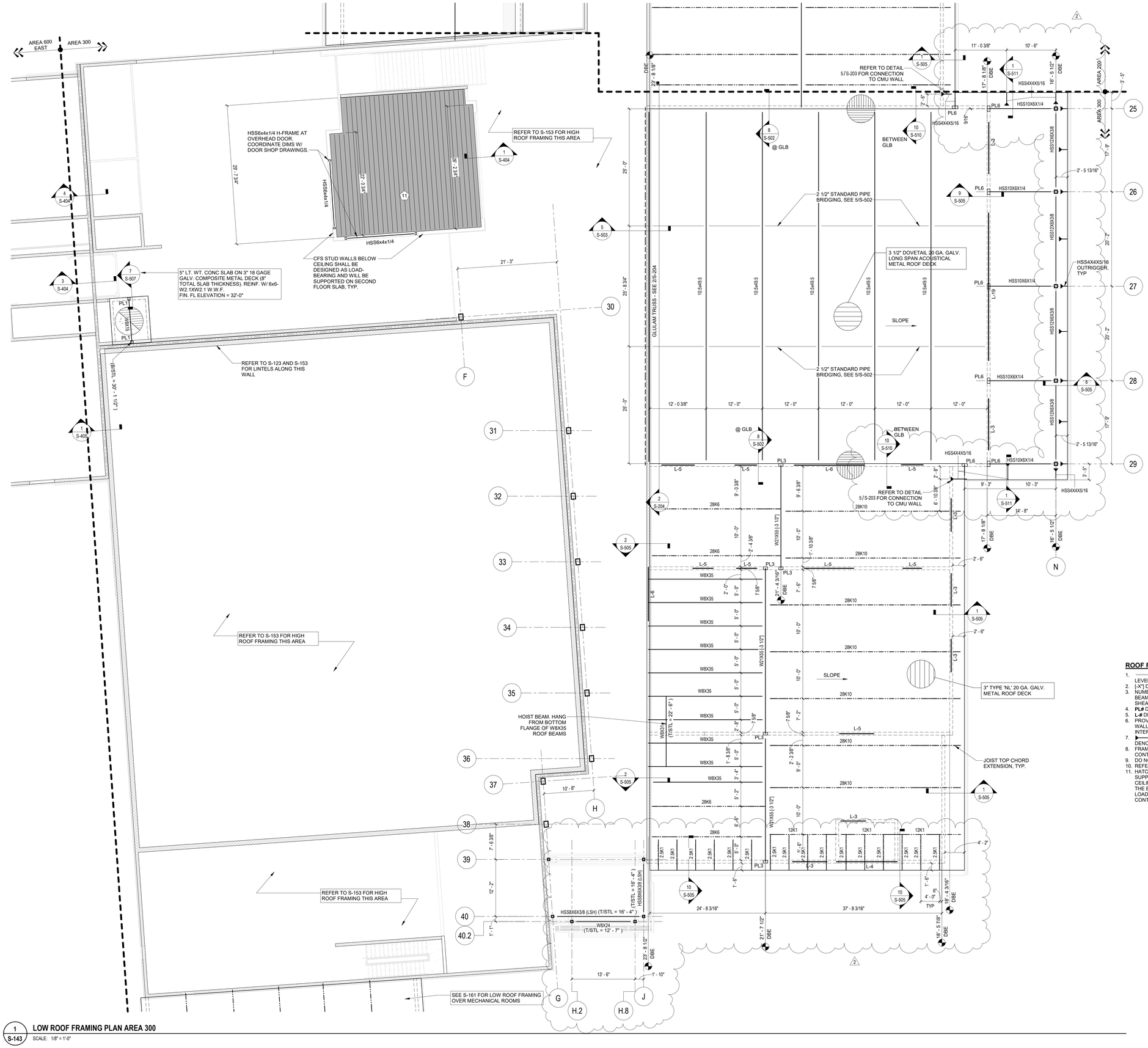

ROOF FRAMING PLAN NOTES:

1. ——◥ DENOTES ROOF DECK BEARING ELEVATION (DBE) U.O.N. ABOVE FIRST LEVEL FIN. FLOOR ELEV. = 0'-0"
2. [-X-] DENOTES TOP OF STEEL BELOW DECK BEARING ELEVATION.
3. NUMBERS SHOWN THUS,$^{10k}_{k}$, DENOTES BEAM VERTICAL SHEAR REACTION IN KIPS. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 10k VERTICAL SHEAR U.O.N. ON PLAN. NOTED REACTIONS ARE SERVICE/UNFACTORED LOADS.
4. **PL#** DENOTES BEAM BEARING PLATE. SEE SCHEDULE ON S-201. SEE DETAILS.
5. **L-#** DENOTES LOAD BEARING OR EXTERIOR LINTEL. SEE SCHEDULE ON S-202.
6. PROVIDE BOND BEAMS IN MASONRY WALLS @ 8'-0" MAX. AND TOP COURSE OF ALL WALLS. PROVIDE CORNER BARS IN BOND BEAMS IN CORNERS AND INTERSECTIONS. SEE DETAILS ON 1/S-201 AND 2/S-201.
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8. FRAME ROOF OPENINGS W/ L4x4x5/16. COORD. LOCATION W/ MECH'L CONTRACTOR. SEE DETAIL12/S-501.
9. DO NOT HANG ANYTHING FROM ROOF DECK.
10. REFER TO S-501 FOR ROOF DECK ATTACHMENT PATTERN.
11. HATCHED AREA DENOTES CFS JOISTS @ 16" OC TOPPED WITH 3/4" PLYWOOD TO SUPPORT CEILING AND MECHANICAL EQUIPMENT. COLD FORMED STEEL STUD CEILING JOISTS, AS WELL AS ANY REQUIRED GIRDERS SHALL BE DESIGNED FOR THE EQUIPMENT WEIGHT IN ADDITION TO 10 PSF DEAD LOAD AND 40 PSF LIVE LOAD. COORDINATE EQUIPMENT WEIGHT AND LOCATION WITH MECHANICAL CONTRACTOR.

1 S-143 **LOW ROOF FRAMING PLAN AREA 300**
SCALE: 1/8" = 1'-0"

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LOW ROOF FRAMING PLAN AREA 300

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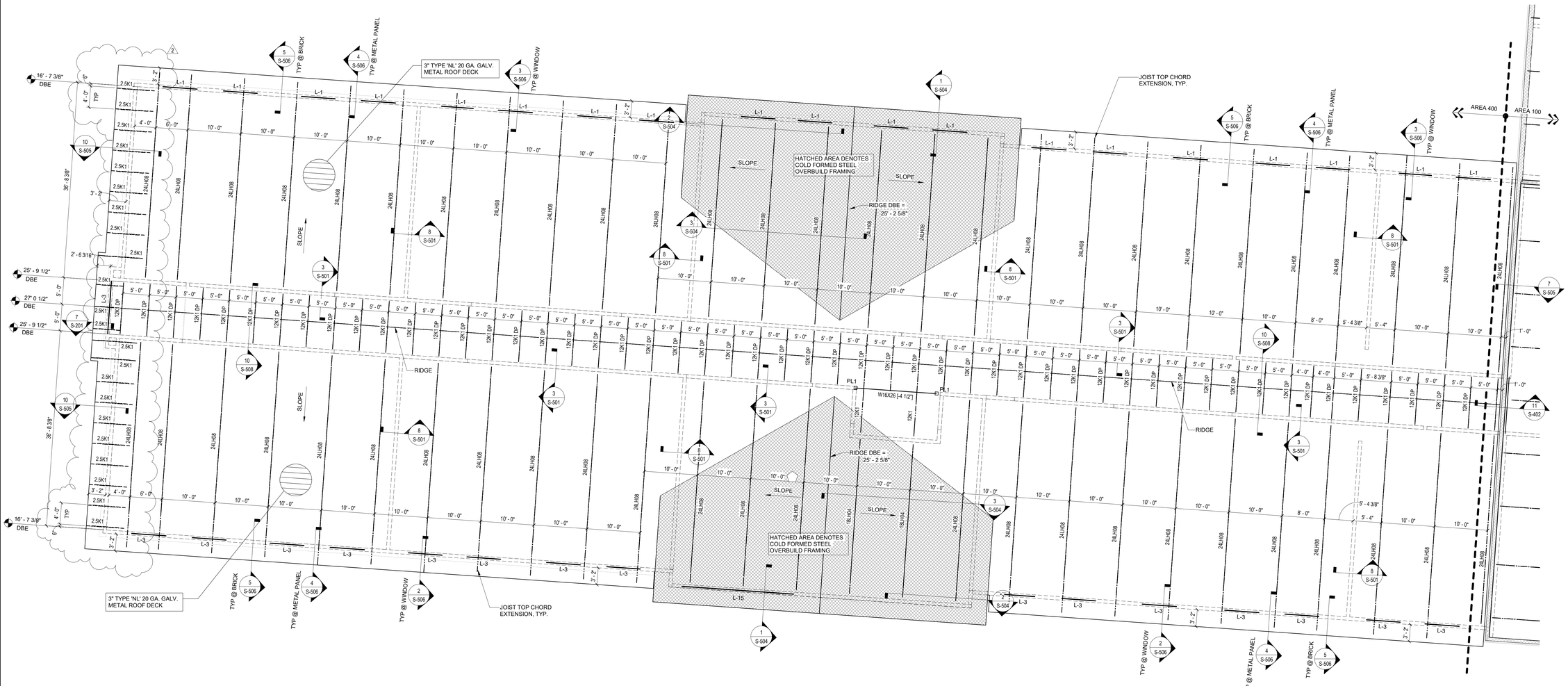
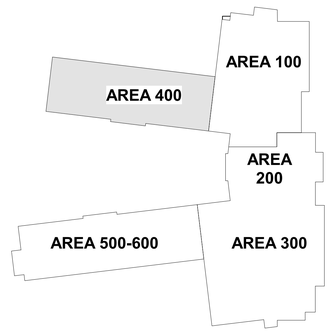


1 S-144 **LOW ROOF FRAMING PLAN AREA 400**

SCALE: 1/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. ——◔ DENOTES ROOF DECK BEARING ELEVATION (DBE) U.O.N. ABOVE FIRST LEVEL FIN. FLOOR ELEV. = 0'-0".
2. [-X"] DENOTES TOP OF STEEL BELOW DECK BEARING ELEVATION.
3. NUMBERS SHOWN THUS, ^{15k}, DENOTES BEAM VERTICAL SHEAR REACTION IN KIPS. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 10k VERTICAL SHEAR U.O.N. ON PLAN. NOTED REACTIONS ARE SERVICE/UNFACTORED LOADS.
4. **PL#** DENOTES BEAM BEARING PLATE. SEE SCHEDULE ON S-201. SEE DETAILS.
5. **L-#** DENOTES LOAD BEARING OR EXTERIOR LINTEL. SEE SCHEDULE ON S-202.
6. PROVIDE BOND BEAMS IN MASONRY WALLS @ 8'-0" MAX. AND TOP COURSE OF ALL WALLS. PROVIDE CORNER BARS IN BOND BEAMS IN CORNERS AND INTERSECTIONS. SEE DETAILS ON 1/S-201 AND 2/S-201.
7. ▶—— DENOTES A MOMENT CONNECTION. NUMBERS SHOWN THUS, 15k-ft, DENOTES MOMENT IN KIPS-FT (SERVICE LOADS).
8. FRAME ROOF OPENINGS W/ L4x4x5/16. COORD. LOCATION W/ MECH'L CONTRACTOR. SEE DETAIL 12/S-501.
9. DO NOT HANG ANYTHING FROM ROOF DECK.
10. REFER TO S-501 FOR ROOF DECK ATTACHMENT PATTERN.
11. HATCHED AREA DENOTES CFS JOISTS @ 16" OC TOPPED WITH 3/4" PLYWOOD TO SUPPORT CEILING AND MECHANICAL EQUIPMENT. COLD FORMED STEEL STUD CEILING JOISTS, AS WELL AS ANY REQUIRED GIRDERS SHALL BE DESIGNED FOR THE EQUIPMENT WEIGHT IN ADDITION TO 10 PSF DEAD LOAD AND 40 PSF LIVE LOAD. COORDINATE EQUIPMENT WEIGHT AND LOCATION WITH MECHANICAL CONTRACTOR.



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NORTH CAROLINA REGISTERED 037412 ENGINEER TIMOTHY K. HILTON
11-8-24

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HARNETT COUNTY SCHOOLS

FLATWOODS MIDDLE SCHOOL

JOEL JOHNSON ROAD/US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description
2	12-13-24	CD REVISIONS

ISSUE DATE: 11/08/2024

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LOW ROOF FRAMING PLAN AREA 400

S-144

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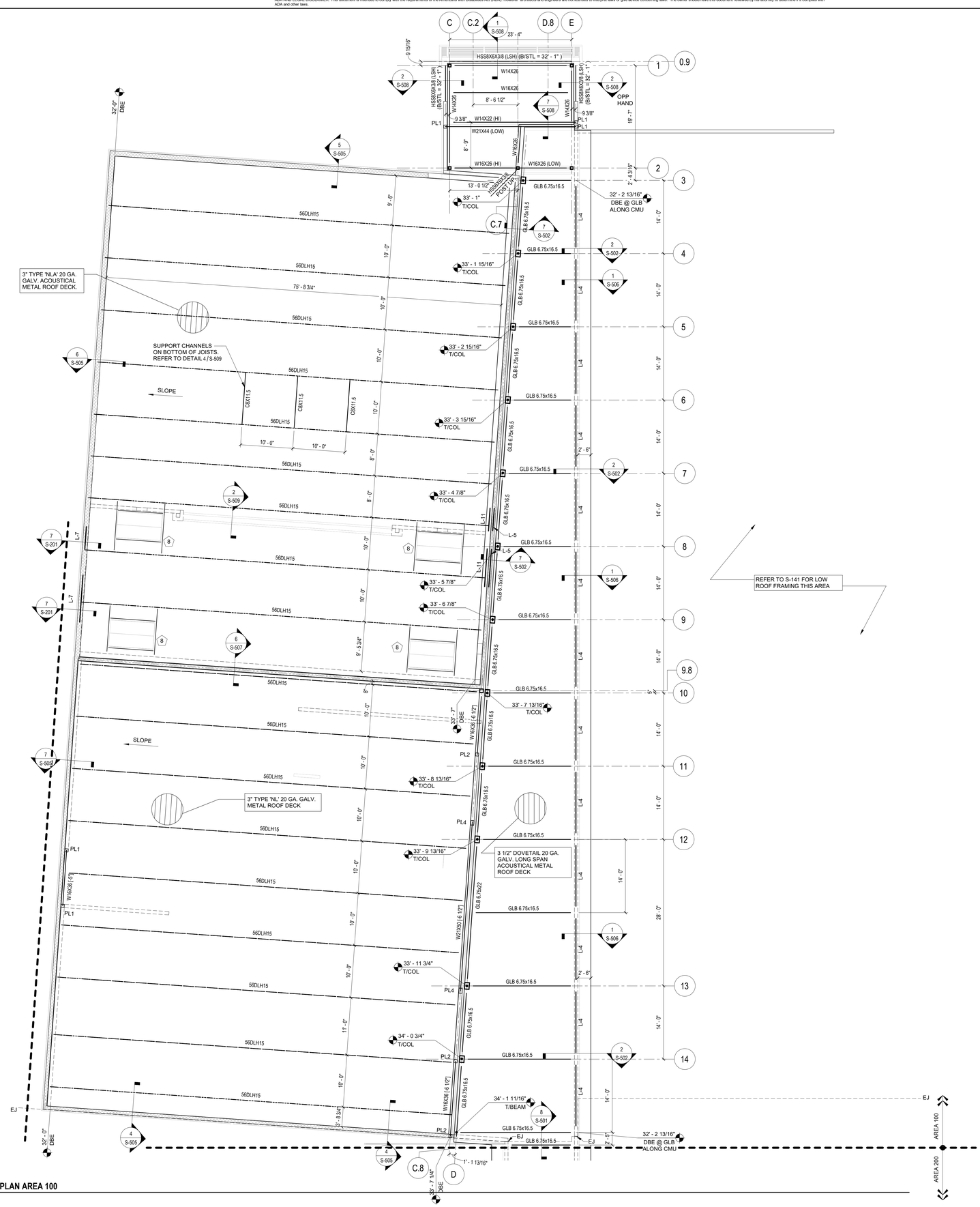
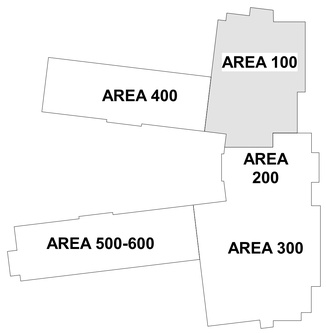


ROOF FRAMING PLAN NOTES:

1. ——◥ DENOTES ROOF DECK BEARING ELEVATION (DBE) U.O.N. ABOVE FIRST LEVEL FIN. FLOOR ELEV. = 0'-0".
2. [-X"] DENOTES TOP OF STEEL BELOW DECK BEARING ELEVATION.
3. NUMBERS SHOWN THUS, ^{15k}. DENOTES BEAM VERTICAL SHEAR REACTION IN KIPS. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 10k VERTICAL SHEAR U.O.N. ON PLAN. NOTED REACTIONS ARE SERVICE/UNFACTORED LOADS.
4. **PL#** DENOTES BEAM BEARING PLATE. SEE SCHEDULE ON S-201, SEE DETAILS.
5. **L#** DENOTES LOAD BEARING OR EXTERIOR LINTEL. SEE SCHEDULE ON S-202.
6. PROVIDE BOND BEAMS IN MASONRY WALLS @ 8'-0" MAX. AND TOP COURSE OF ALL WALLS. PROVIDE CORNER BARS IN BOND BEAMS IN CORNERS AND INTERSECTIONS. SEE DETAILS ON 1 / S-201 AND 2 / S-201.
7. ▶—— DENOTES A MOMENT CONNECTION. NUMBERS SHOWN THUS, 15k-ft, DENOTES MOMENT IN KIPS-FT (SERVICE LOADS).
8. FRAME ROOF OPENINGS W/ L4x4x5/16. COORD. LOCATION W/ MECH'L CONTRACTOR. SEE DETAIL 12 / S-501.
9. DO NOT HANG ANYTHING FROM ROOF DECK.
10. REFER TO S-501 FOR ROOF DECK ATTACHMENT PATTERN.
11. HATCHED AREA DENOTES CFS JOISTS @ 16" OC TOPPED WITH 3/4" PLYWOOD TO SUPPORT CEILING AND MECHANICAL EQUIPMENT. COLD FORMED STEEL STUD CEILING JOISTS, AS WELL AS ANY REQUIRED GIRDERS SHALL BE DESIGNED FOR THE EQUIPMENT WEIGHT IN ADDITION TO 10 PSF DEAD LOAD AND 40 PSF LIVE LOAD. COORDINATE EQUIPMENT WEIGHT AND LOCATION WITH MECHANICAL CONTRACTOR.



1 / S-151 **HIGH ROOF FRAMING PLAN AREA 100**
SCALE: 1/8" = 1'-0"

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HIGH ROOF FRAMING PLAN AREA 100

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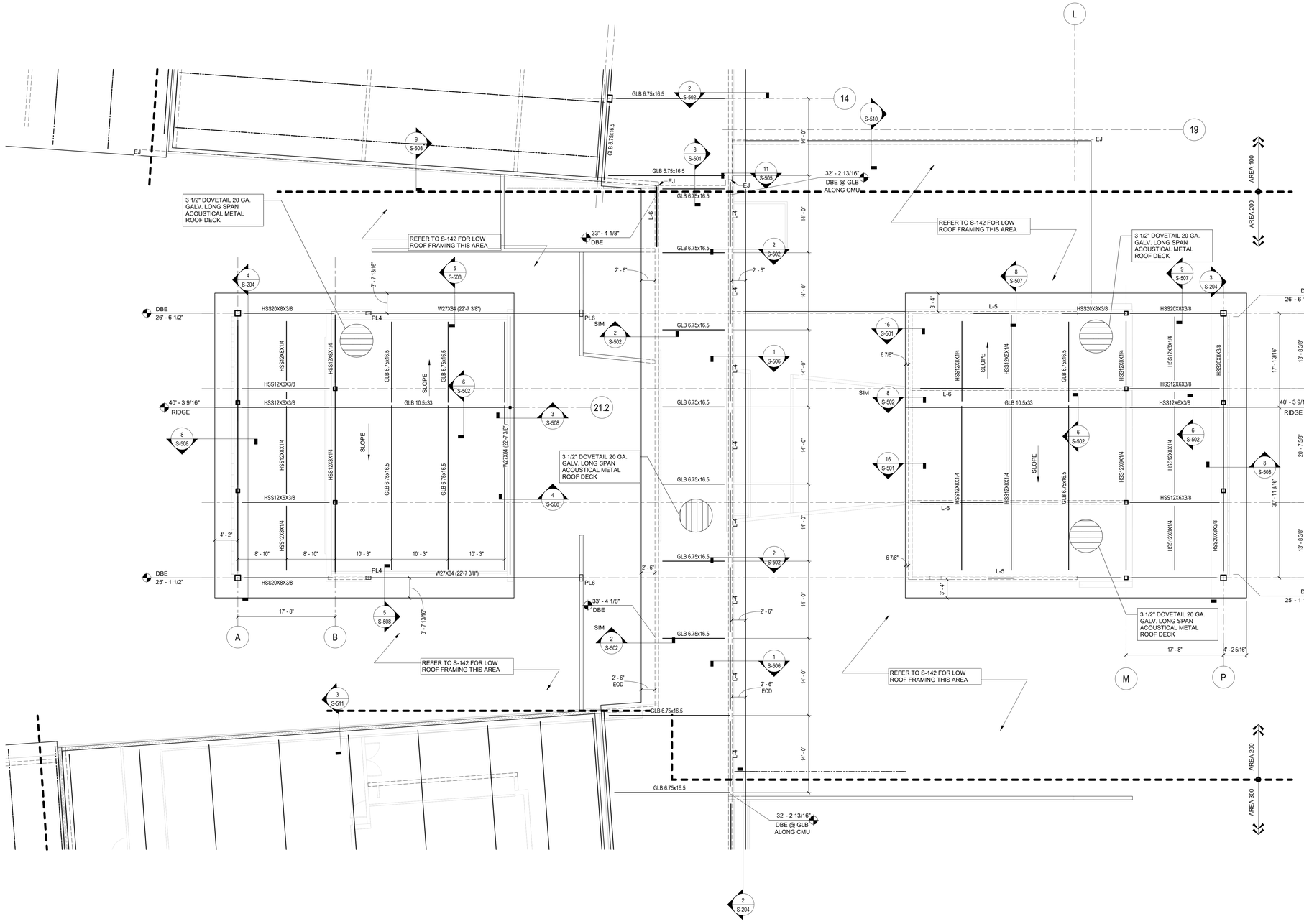
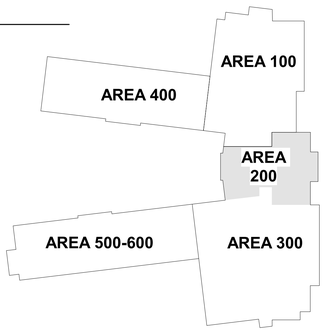


1 S-152 **HIGH ROOF FRAMING PLAN AREA 200**

SCALE: 1/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. ——◆ DENOTES ROOF DECK BEARING ELEVATION (DBE) U.O.N. ABOVE FIRST LEVEL FIN. FLOOR ELEV. = 0'-0".
2. [•X'] DENOTES TOP OF STEEL BELOW DECK BEARING ELEVATION.
3. NUMBERS SHOWN THUS,^{19K}, DENOTES BEAM VERTICAL SHEAR REACTION IN KIPS. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 10k VERTICAL SHEAR U.O.N. ON PLAN. NOTED REACTIONS ARE SERVICE/UNFACTORED LOADS.
4. **PL#** DENOTES BEAM BEARING PLATE. SEE SCHEDULE ON S-201. SEE DETAILS.
5. **L-#** DENOTES LOAD BEARING OR EXTERIOR LINTEL. SEE SCHEDULE ON S-202.
6. PROVIDE BOND BEAMS IN MASONRY WALLS @ 8'-0" MAX. AND TOP COURSE OF ALL WALLS. PROVIDE CORNER BARS IN BOND BEAMS IN CORNERS AND INTERSECTIONS. SEE DETAILS ON 1/S-201 AND 2/S-201.
7. ▶——— DENOTES A MOMENT CONNECTION. NUMBERS SHOWN THUS, 15k-ft, DENOTES MOMENT IN KIPS-FT (SERVICE LOADS).
8. FRAME ROOF OPENINGS W/ L4x4x5/16. COORD. LOCATION W/ MECH'L CONTRACTOR. SEE DETAIL 12/S-501.
9. DO NOT HANG ANYTHING FROM ROOF DECK.
10. REFER TO S-501 FOR ROOF DECK ATTACHMENT PATTERN.
11. HATCHED AREA DENOTES CFS JOISTS @ 16" OC TOPPED WITH 3/4" PLYWOOD TO SUPPORT CEILING AND MECHANICAL EQUIPMENT. COLD FORMED STEEL STUD CEILING JOISTS, AS WELL AS ANY REQUIRED GIRDERS SHALL BE DESIGNED FOR THE EQUIPMENT WEIGHT IN ADDITION TO 10 PSF DEAD LOAD AND 40 PSF LIVE LOAD. COORDINATE EQUIPMENT WEIGHT AND LOCATION WITH MECHANICAL CONTRACTOR.



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HIGH ROOF FRAMING PLAN AREA 200

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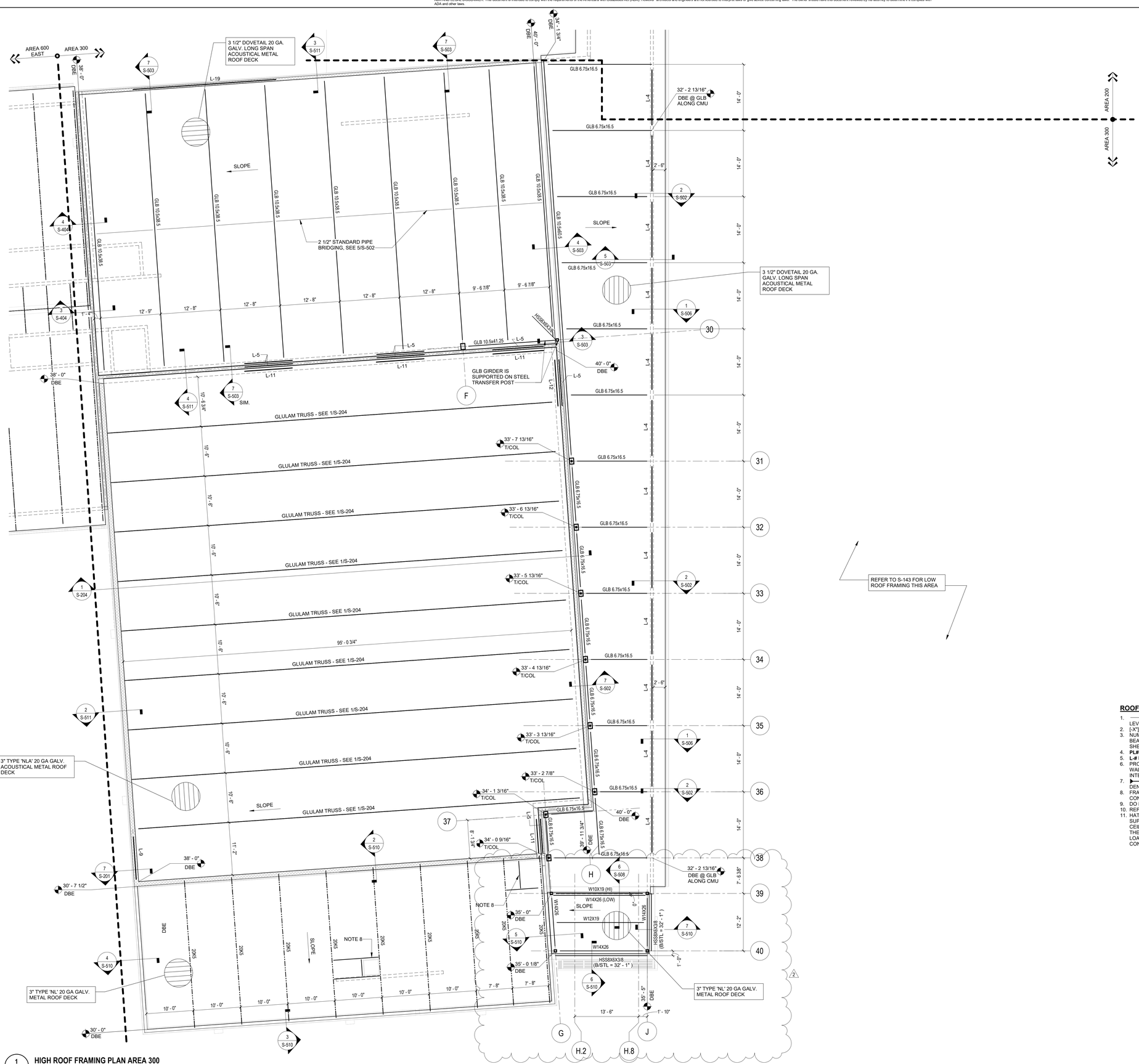

ROOF FRAMING PLAN NOTES:

1. ——◆ DENOTES ROOF DECK BEARING ELEVATION (DBE) U.O.N. ABOVE FIRST LEVEL FIN. FLOOR ELEV. = 0'-0".
2. [-X"] DENOTES TOP OF STEEL BELOW DECK BEARING ELEVATION.
3. NUMBERS SHOWN THUS,^{10k}, DENOTES BEAM VERTICAL SHEAR REACTION IN KIPS. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 10k VERTICAL SHEAR U.O.N. ON PLAN. NOTED REACTIONS ARE SERVICE/UNFACTORED LOADS.
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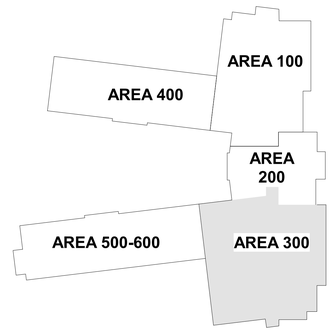

1 S-153 **HIGH ROOF FRAMING PLAN AREA 300**
SCALE: 1/8" = 1'-0"

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HIGH ROOF FRAMING PLAN AREA 300

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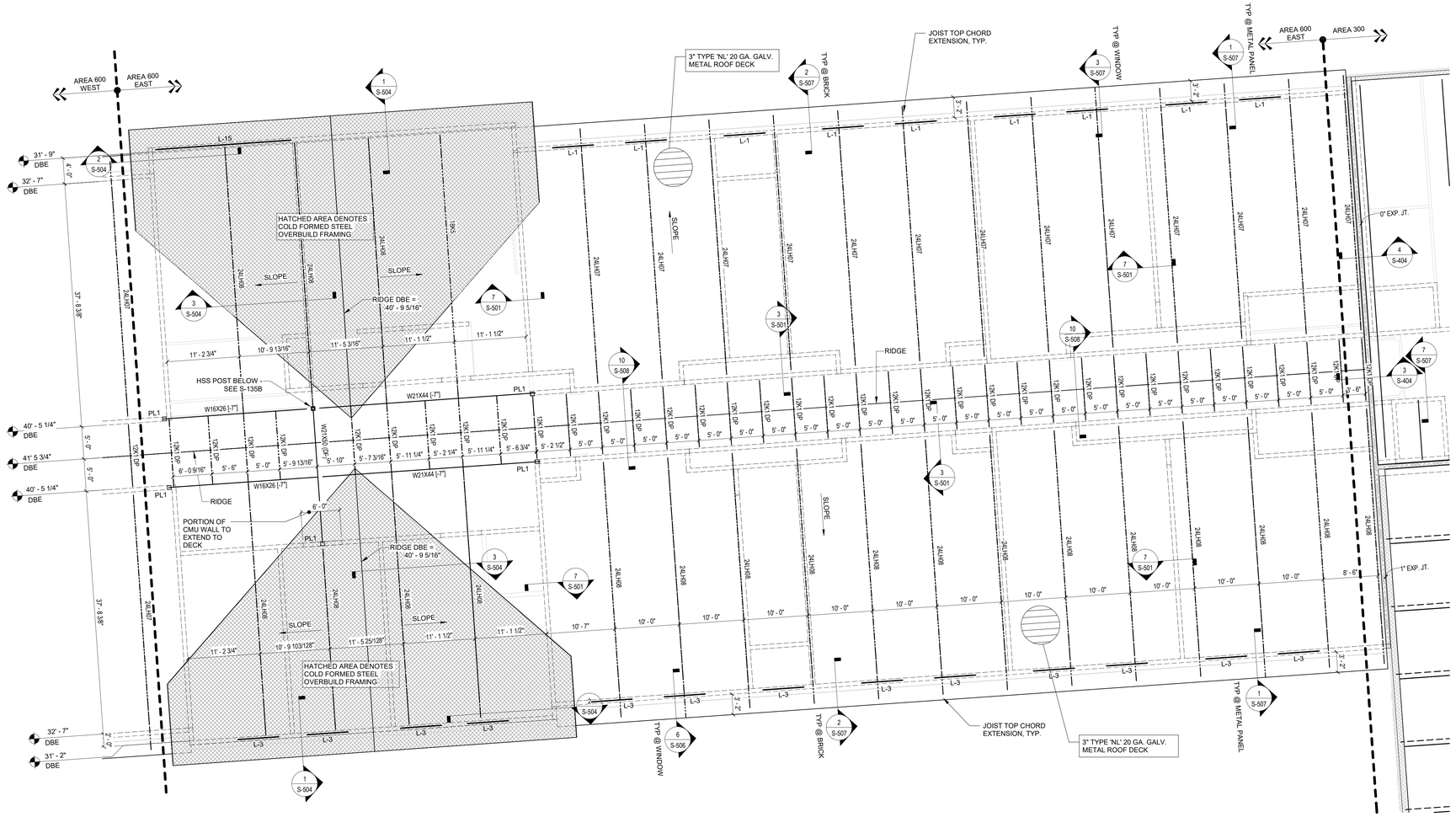
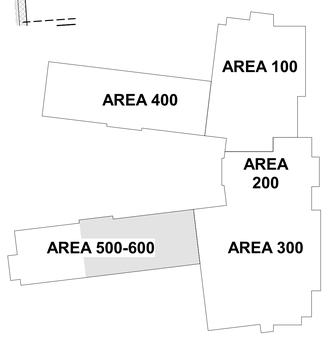


1 S-155A **HIGH ROOF FRAMING PLAN AREA 500-600 EAST**

SCALE: 1/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. ——◆ DENOTES ROOF DECK BEARING ELEVATION (DBE) U.O.N. ABOVE FIRST LEVEL FIN. FLOOR ELEV. = 0'-0".
2. [-X"] DENOTES TOP OF STEEL BELOW DECK BEARING ELEVATION.
3. NUMBERS SHOWN THUS, ^{15k}, DENOTES BEAM VERTICAL SHEAR REACTION IN KIPS. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 10k VERTICAL SHEAR U.O.N. ON PLAN. NOTED REACTIONS ARE SERVICE/UNFACTORED LOADS.
4. **PL#** DENOTES BEAM BEARING PLATE. SEE SCHEDULE ON S-201. SEE DETAILS.
5. **L-#** DENOTES LOAD BEARING OR EXTERIOR LINTEL. SEE SCHEDULE ON S-202.
6. PROVIDE BOND BEAMS IN MASONRY WALLS @ 8'-0" MAX. AND TOP COURSE OF ALL WALLS. PROVIDE CORNER BARS IN BOND BEAMS IN CORNERS AND INTERSECTIONS. SEE DETAILS ON 1/S-201 AND 2/S-201.
7. ▶—— DENOTES A MOMENT CONNECTION. NUMBERS SHOWN THUS, 15k-ft, DENOTES MOMENT IN KIPS-FT (SERVICE LOADS).
8. FRAME ROOF OPENINGS W/ L4x4x5/16. COORD. LOCATION W/ MECH'L CONTRACTOR. SEE DETAIL 1/S-501.
9. DO NOT HANG ANYTHING FROM ROOF DECK.
10. REFER TO S-501 FOR ROOF DECK ATTACHMENT PATTERN.
11. HATCHED AREA DENOTES CFS JOISTS @ 16" OC TOPPED WITH 3/4" PLYWOOD TO SUPPORT CEILING AND MECHANICAL EQUIPMENT. COLD FORMED STEEL STUD CEILING JOISTS, AS WELL AS ANY REQUIRED GIRDERS SHALL BE DESIGNED FOR THE EQUIPMENT WEIGHT IN ADDITION TO 10 PSF DEAD LOAD AND 40 PSF LIVE LOAD. COORDINATE EQUIPMENT WEIGHT AND LOCATION WITH MECHANICAL CONTRACTOR.



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HIGH ROOF FRAMING PLAN AREA 500-600 EAST

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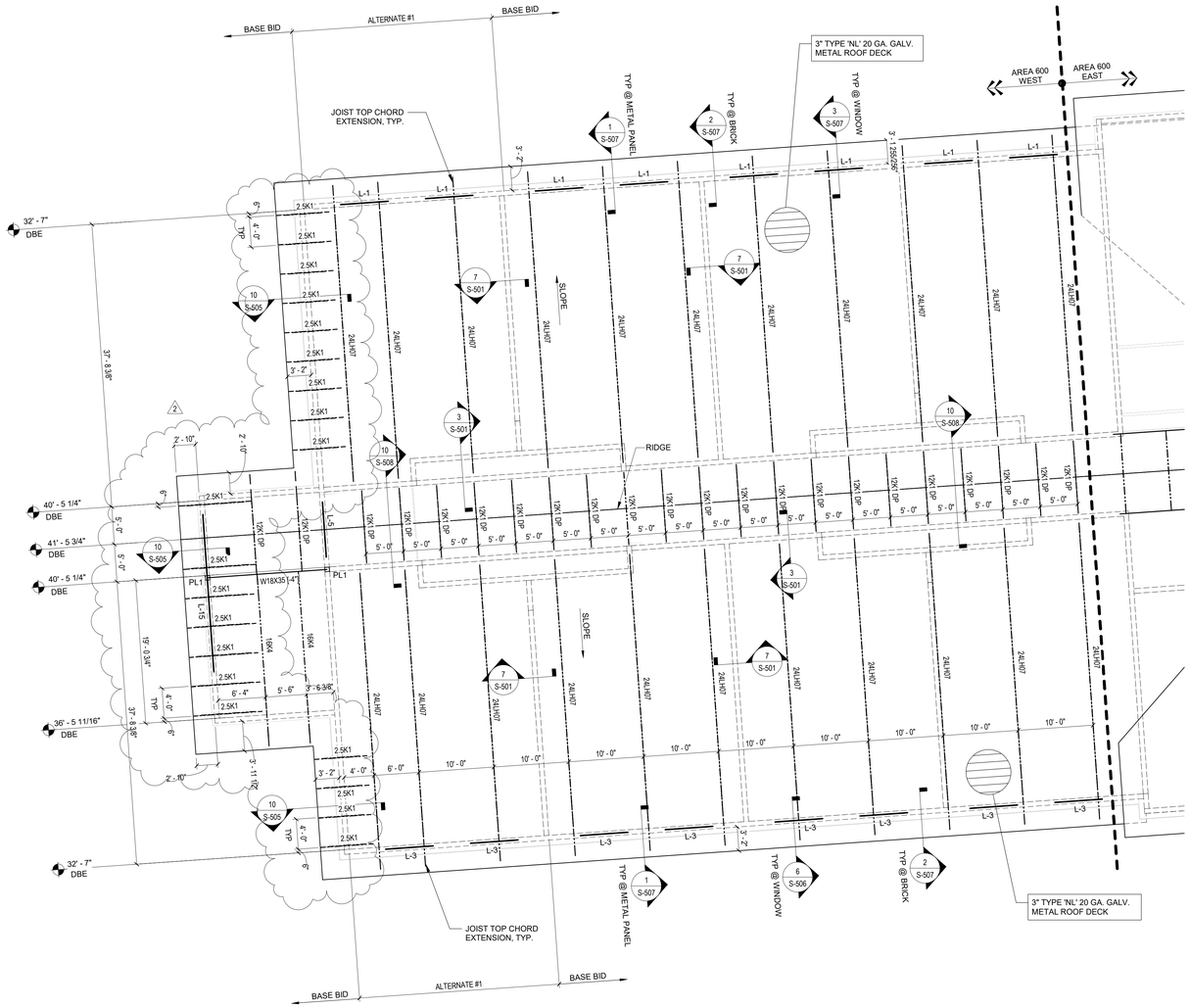

1 S-155B **HIGH ROOF FRAMING PLAN AREA 500-600 WEST**

SCALE: 1/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. ——◆ DENOTES ROOF DECK BEARING ELEVATION (DBE) U.O.N. ABOVE FIRST LEVEL FIN. FLOOR ELEV. = 0'-0".
2. [-X"] DENOTES TOP OF STEEL BELOW DECK BEARING ELEVATION.
3. NUMBERS SHOWN THUS,15k DENOTES BEAM VERTICAL SHEAR REACTION IN KIPS. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 10k VERTICAL SHEAR U.O.N. ON PLAN. NOTED REACTIONS ARE SERVICE/UNFACTORED LOADS.
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HIGH ROOF FRAMING PLAN AREA 500-600 WEST

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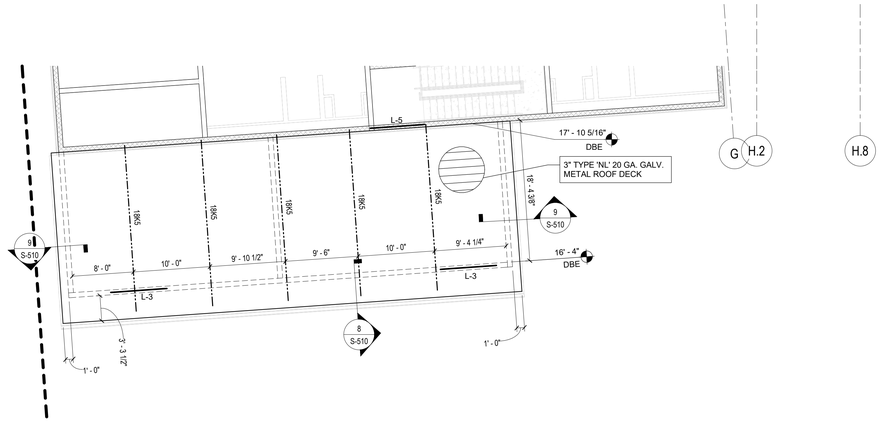
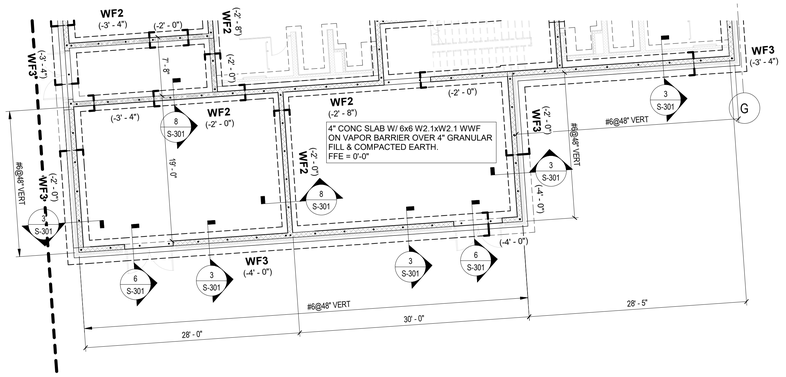


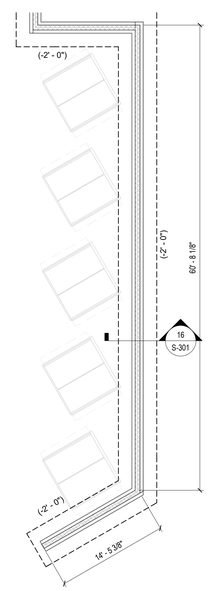
2 S-161 LOW ROOF FRAMING PLAN MEP ROOMS & DUMPSTER YARD

SCALE: 1/8" = 1'-0"



1 S-161 FOUNDATION & SLAB PLAN MEP ROOMS & DUMPSTER YARD

SCALE: 1/8" = 1'-0"



ROOF FRAMING PLAN NOTES:

1. ——◔ DENOTES ROOF DECK BEARING ELEVATION (DBE) U.O.N. ABOVE FIRST LEVEL FIN. FLOOR ELEV. = 0'-0".
2. [-X'] DENOTES TOP OF STEEL BELOW DECK BEARING ELEVATION.
3. NUMBERS SHOWN THUS, ^{15k}, DENOTES BEAM VERTICAL SHEAR REACTION IN KIPS. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 10k VERTICAL SHEAR U.O.N. ON PLAN. NOTED REACTIONS ARE SERVICE/UNFACTORED LOADS.
4. **PL#** DENOTES BEAM BEARING PLATE. SEE SCHEDULE ON S-201. SEE DETAILS.
5. **L-#** DENOTES LOAD BEARING OR EXTERIOR LINTEL. SEE SCHEDULE ON S-202.
6. PROVIDE BOND BEAMS IN MASONRY WALLS @ 8'-0" MAX. AND TOP COURSE OF ALL WALLS. PROVIDE CORNER BARS IN BOND BEAMS IN CORNERS AND INTERSECTIONS. SEE DETAILS ON 1/S-201 AND 2/S-201.
7. ▶—— DENOTES A MOMENT CONNECTION. NUMBERS SHOWN THUS, 15k-ft, DENOTES MOMENT IN KIPS-FT (SERVICE LOADS).
8. FRAME ROOF OPENINGS W/ L4x4x5/16. COORD. LOCATION W/ MECH'L CONTRACTOR. SEE DETAIL 12/S-501.
9. DO NOT HANG ANYTHING FROM ROOF DECK.
10. REFER TO S-501 FOR ROOF DECK ATTACHMENT PATTERN.
11. HATCHED AREA DENOTES CFS JOISTS @ 16" OC TOPPED WITH 3/4" PLYWOOD TO SUPPORT CEILING AND MECHANICAL EQUIPMENT. COLD FORMED STEEL STUD CEILING JOISTS, AS WELL AS ANY REQUIRED GIRDERS SHALL BE DESIGNED FOR THE EQUIPMENT WEIGHT IN ADDITION TO 10 PSF DEAD LOAD AND 40 PSF LIVE LOAD. COORDINATE EQUIPMENT WEIGHT AND LOCATION WITH MECHANICAL CONTRACTOR.

FOUNDATION PLAN NOTES:

1. NUMBER IN PARENTHESIS DENOTES TOP OF FOOTING BELOW FIN. FLOOR ELEVATION = 0'-0" (REF. 162.0').
2. **F#** DENOTES COLUMN/SPREAD FOOTING. SEE S-111 FOR SCHEDULE.
3. SEE S-201, S-202, AND S-203 FOR CMU WALL REINFORCING REQUIREMENTS.
4. IN ADDITION TO REINFORCING SHOWN ON THE DRAWINGS, PROVIDE (1) VERT. BAR(SAME SIZE AS WALL REINF. BARS) IN JAMBS OF ALL DOORS AND WINDOWS AND (1) #6 BAR EACH SIDE OF EXPANSION AND CONTROL JOINTS. SEE ARCH'L FOR JOINT LOCATIONS. SEE DETAIL 4/S-201.
5. ⌐¬ DENOTES STEPPED FOOTING. SEE 11/S-301 FOR DETAIL. G.C. COORDINATE STEP LOCATIONS AND DEPTH W/ PLUMBING CONTRACTOR PRIOR TO FOOTING EXCAVATION. CONTRACTOR'S OPTION: TOP OF FOOTING ELEVATIONS MAY BE LOWERED BETWEEN STEP LOCATIONS TO REDUCE THE NUMBER OF STEPS REQUIRED. SUBMIT FOR APPROVAL.
6. PROVIDE #5@48" VERTICAL @ INTERIOR CMU WALLS U.O.N. SEE FOUNDATION PLAN FOR VERTICAL REINFORCING IN EXTERIOR CMU WALLS. REBAR SHOWN ON PLAN IS NOT DRAWN TO SCALE. REFER TO TEXT CALLOUTS FOR REBAR SPACING.
7. REFER TO ARCH'L DRAWINGS FOR INTERIOR WALL DIMENSIONS NOT SHOWN ON STRUCTURAL.
8. PROVIDE BOND BEAMS IN MASONRY WALLS @ 8'-0" MAX AND TOP COURSE OF ALL WALLS.
9. PROVIDE CORNER BARS IN BOND BEAMS AT WALL CORNERS AND INTERSECTIONS. LAP 2'-0".
10. VERIFY ELEVATOR PIT DEPTH AND DIMENSIONS W/ ELEVATOR SUPPLIER PRIOR TO EXCAVATION. SEE DETAIL 12/S-301.

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CONSTRUCTION DOCUMENTS

HARNETT COUNTY SCHOOLS

FLATWOODS MIDDLE SCHOOL

JOEL JOHNSON ROAD/US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

ISSUE DATE: 11/08/2024
PROJECT #: 2208
DRAWN BY: MM
CHECKED BY: TH

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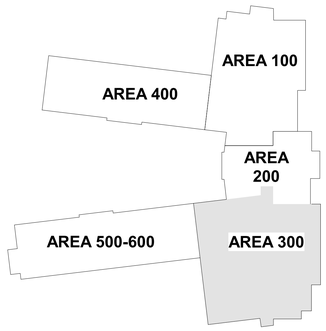

MEP ROOMS AND DUMPSTER YARD FRAMING PLANS

S-161

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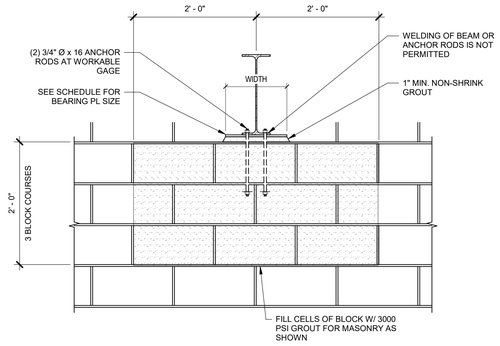
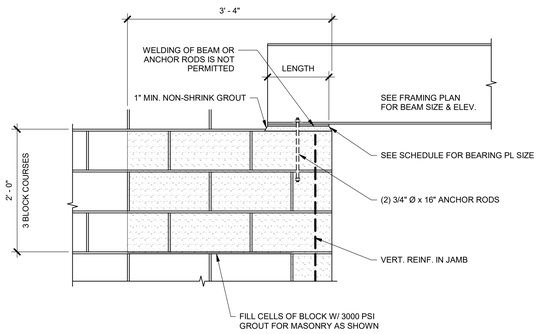
BEAM BEARING PLATE SCHEDULE

MARK	LENGTH	WIDTH	THICKNESS
PL1	7"	7"	1/2"
PL2	7"	7"	3/4"
PL3	7"	11"	1"
PL4	11"	7"	3/4"
PL5	20"	7"	3/4"
PL6	7"	14"	1 1/4"

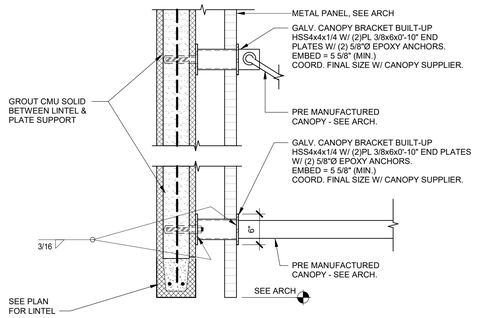
2



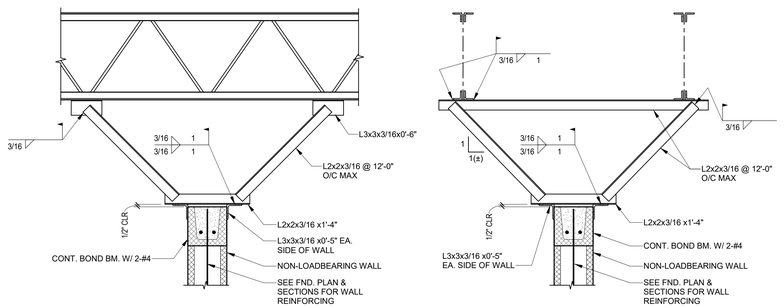
9 S-201 **BEAM BEARING DETAIL**
SCALE: 1" = 1'-0"



8 S-201 **BEAM BEARING DETAIL**
SCALE: 1" = 1'-0"

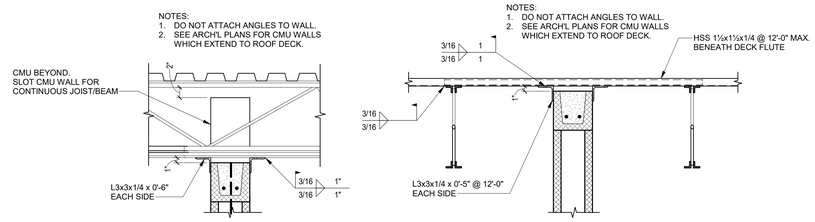


7 S-201 **SECTION AT TYPICAL CANOPY**
SCALE: 1" = 1'-0"



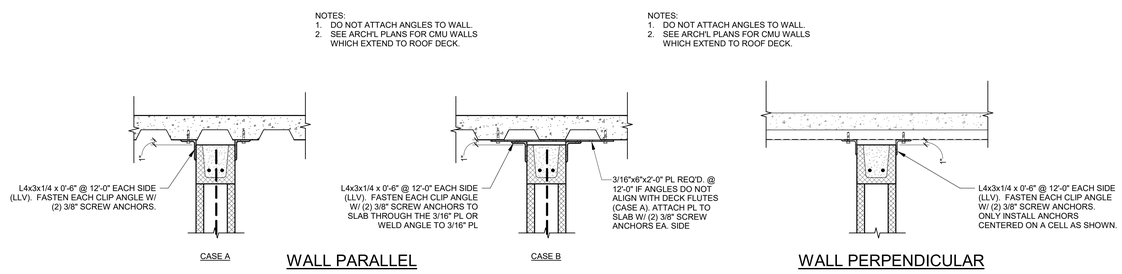
WALL PERPENDICULAR WALL PARALLEL

BELOW ROOF DECK



WALL PERPENDICULAR WALL PARALLEL

AT METAL DECK

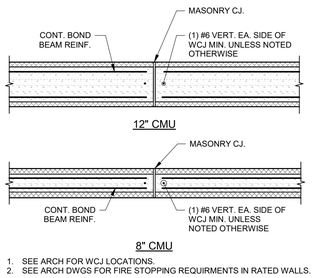


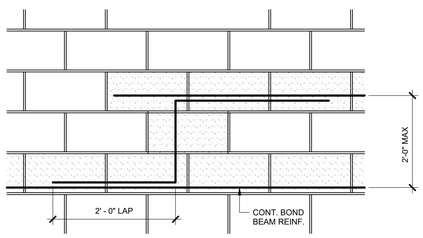
WALL PARALLEL WALL PERPENDICULAR

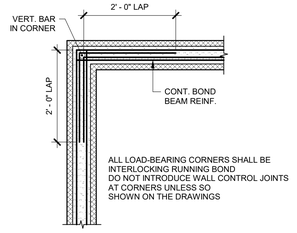
AT SLAB ON METAL DECK

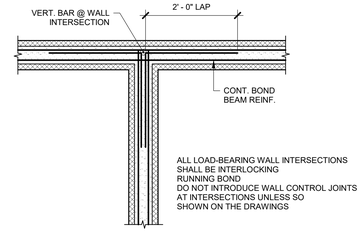
6 S-201 **PARTITION HEIGHT WALL BRACING DETAIL**
SCALE: 1" = 1'-0"

5 S-201 **FULL HEIGHT PARTITION WALL BRACING DETAIL**
SCALE: 1" = 1'-0"









4 S-201 **TYP. CONTROL JOINT DETAIL**
SCALE: 3/4" = 1'-0"

3 S-201 **TYP. STEP IN BOND BEAM**
SCALE: 1" = 1'-0"

2 S-201 **TYP. BOND BEAM CORNER**
SCALE: 3/4" = 1'-0"

1 S-201 **TYP. BOND BEAM INTERSECTION**
SCALE: 3/4" = 1'-0"

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HARNETT COUNTY SCHOOLS
FLATWOODS MIDDLE SCHOOL
JOEL JOHNSON ROAD/US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description
2	12-13-24	CD REVISIONS

ISSUE DATE: 11/08/2024
PROJECT #: 2208
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MASONRY TYPICAL DETAILS

S-201

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LOAD BEARING / EXTERIOR LINTEL SCHEDULE

MARK	WALL TYPE	LINTEL	SIZE	REINF.	SECTION	BEARING END	REMARKS
L-1	8" CMU 4" BRICK	U-BLOCK STEEL	8x16 STEEL ANGLE REFER TO DETAILS	(2) #5		8"	HOT DIPPED GALV.
L-2	8" CMU 4" BRICK	U-BLOCK STEEL	8x24 STEEL ANGLE REFER TO DETAILS	(2)#5		8"	HOT DIPPED GALV
L-3	8" CMU METAL PANEL	U-BLOCK	8x16	(2) #5		8"	----
L-4	8" CMU METAL PANEL	U-BLOCK	8x24	(2)#5		8"	----
L-5	8" CMU	U-BLOCK	8x16	(2) #5		8"	----
L-6	8" CMU	U-BLOCK	8x24	(2)#5		8"	----
L-7	12" CMU 4" BRICK	U-BLOCK STEEL	12x16 STEEL ANGLE REFER TO DETAILS	(2)#5		16"★	HOT DIPPED GALV
L-8	12" CMU 4" BRICK	U-BLOCK STEEL	12x24 STEEL ANGLE REFER TO DETAILS	(2)#5		16"★	HOT DIPPED GALV
L-9	12" CMU METAL PANEL	U-BLOCK	12x16	(2)#5		16"★	----
L-10	12" CMU METAL PANEL	U-BLOCK	12x24	(2)#5		16"★	----
L-11	12" CMU	U-BLOCK	12x16	(2)#5		16"★	----
L-12	12" CMU	U-BLOCK	12x24	(2)#5		16"★	----
L-13	8" CMU	STEEL	W16x40	----		16"★	1/2"Øx 4" HSA @ 16" BEARING PL 1/2x7x15
L-14	12" CMU	STEEL	W16x40 W/ 3/8"PL	----		16"★	HOT DIPPED GALV. 1/2" Ø x 4" HSA @ 16" BEARING PL 1/2x7x15
L-15	8" CMU METAL PANEL	STEEL	W16x40 W/ 3/8"PL	----		16"★	HOT DIPPED GALV. 1/2" Ø x 4" HSA @ 16" BEARING PL 1/2x7x15
L-16	12" CMU METAL PANEL	STEEL	W16x40 W/ 3/8"PL	----		16"★	HOT DIPPED GALV. 1/2" Ø x 4" HSA @ 16" BEARING PL 1/2x7x15

LOAD BEARING / EXTERIOR LINTEL SCHEDULE

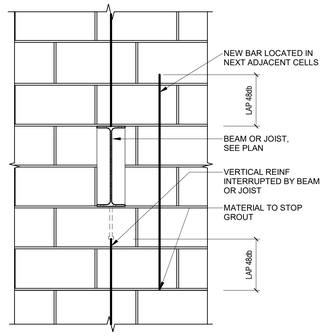
MARK	WALL TYPE	LINTEL	SIZE	REINF.	SECTION	BEARING END	REMARKS
L-17	8" CMU	STEEL	W24x55 W/ 3/8"PL	----		24"★	HOT DIPPED GALV. 1/2" Ø x 4" HSA @ 16" BEARING PL 1/2x7x15
L-18	12" CMU	STEEL	W24x55 W/ 3/8"PL	----		24"★	HOT DIPPED GALV. 1/2" Ø x 4" HSA @ 16" BEARING PL 1/2x7x15
L-19	8" CMU METAL PANEL	STEEL	W24x55 W/ 3/8"PL	----		16"★	HOT DIPPED GALV. 1/2" Ø x 4" HSA @ 16" BEARING PL 1/2x7x15
L-20	12" CMU METAL PANEL	STEEL	W24x55 W/ 3/8"PL	----		16"★	HOT DIPPED GALV. 1/2" Ø x 4" HSA @ 16" BEARING PL 1/2x7x15
L-21	8" CMU METAL PANEL	STEEL	W8x28 W/ 3/8"PL	----		8"	HOT DIPPED GALV. 1/2" Ø x 4" HSA @ 16" BEARING PL 1/2x7x7
L-22	12" CMU METAL PANEL	STEEL	W8x28 W/ 3/8"PL	----		8"	HOT DIPPED GALV. 1/2" Ø x 4" HSA @ 16" BEARING PL 1/2x7x7
MECH'L OPNG LESS THAN 30" WIDE	8" CMU	U-BLOCK	8x8	(2)#4		8"	----
MECH'L OPNG 30" TO 42" WIDE	8" CMU	U-BLOCK	8x16	(2)#4		8"	----

★ AT LINTELS W/ 16" OR 24" BEARING, EACH END OF LINTEL SHALL BEAR ON (2) OR (3) GROUTED CELLS, RESPECTIVELY, REINFORCED W/ #5 (INT.) OR #6 (EXT.)

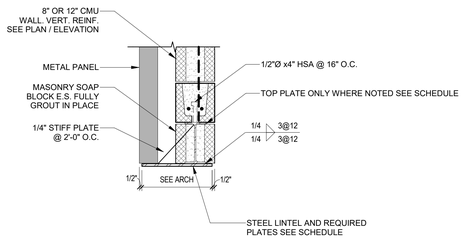
INTERIOR PARTITION WALL LINTEL SCHEDULE

WALL TYPE	OPENING WIDTH	LINTEL TYPE	LINTEL SIZE	REINF.	BEARING EA. END	REMARKS
8" CMU	<4'-0"	U-BLOCK	8x8	(2) #4	8"	
8" CMU	4' THRU 6'	U-BLOCK	8x8	(2) #5	8"	
8" CMU	6'-4"" THRU 8'-0"	U-BLOCK	8x16	(2) #5	8"	
8" CMU	8'-4"" THRU 12'-0"	U-BLOCK	8x16	(2) #6	8"	
8" CMU	12'-8"	U-BLOCK	8x16	(2) #6 TOP (2) #6 BOT	8"	
12" CMU	<4'-0"	U-BLOCK	12x8	(2) #4	8"	
12" CMU	4' THRU 6'	U-BLOCK	12x8	(2) #5	8"	
12" CMU	6'-4"" THRU 8'-0"	U-BLOCK	12x16	(2) #5	8"	
12" CMU	8'-4"" THRU 12'-0"	U-BLOCK	12x16	(2) #6	8"	

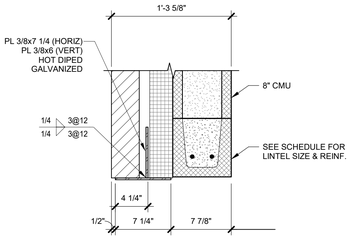
1. FILL CELLS OF LINTEL BLOCKS W/ 3000 PSI GROUT FOR MASONRY.
2. GENERAL CONTRACTOR SHALL COORDINATE LOCATION OF DUCT PENETRATIONS AND INSTALL LINTELS AS REQ'D DURING WALL CONSTRUCTION.
3. 8x16 REFERS TO 16" HIGH LINTEL BLOCK. DO NOT USE 8" HIGH LINTEL BLOCK W/ 8" HIGH REGULAR CMU.



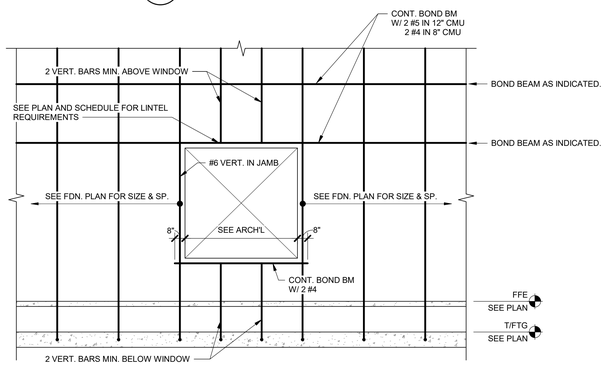
7 S-202 **TYPICAL INTERUPTED REINF. PLACEMENT AT BEARING PLATE**
SCALE: 1" = 1'-0"



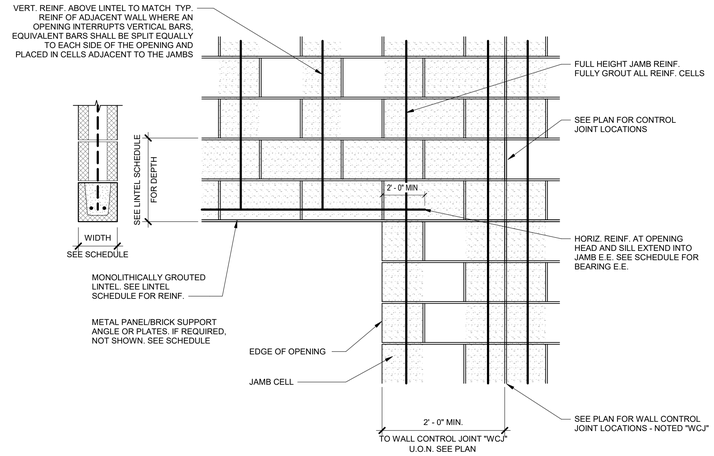
6 S-202 **STEEL LINTEL DETAIL**
SCALE: 1" = 1'-0"



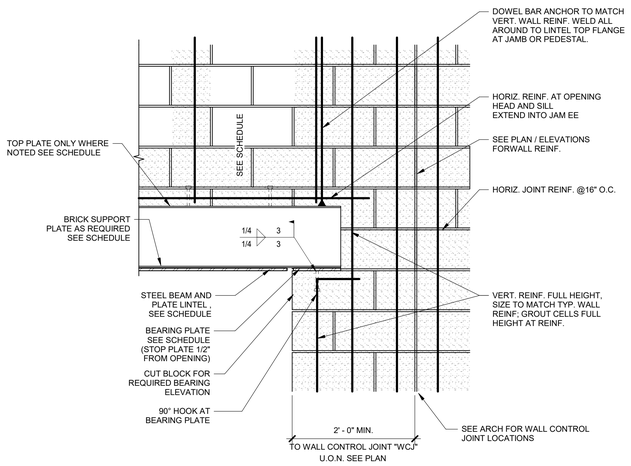
5 S-202 **LOOSE LINTEL DETAIL @ BRICK**
SCALE: 1 1/2" = 1'-0"



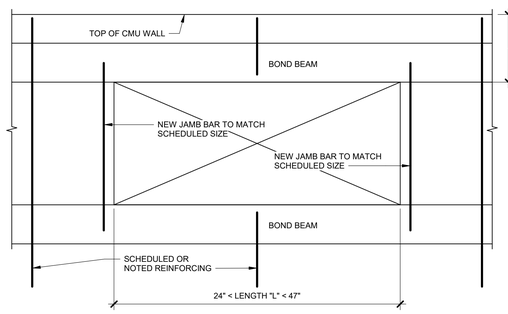
4 S-202 **TYP. WALL ELEVATION - AT WINDOW**
SCALE: 1/4" = 1'-0"



3 S-202 **TYP. CMU LINTEL DETAIL**
SCALE: 1" = 1'-0"



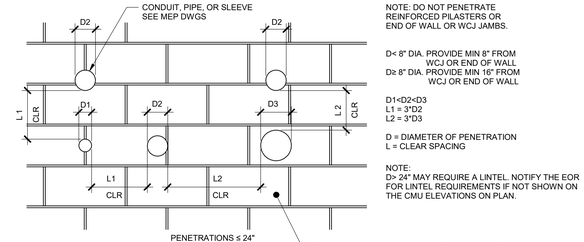
2 S-202 **TYP.STEEL LINTEL DETAIL**
SCALE: 1" = 1'-0"



DUCT OPENINGS UNDER 47" WIDE PROVIDE BOND BEAM AT BOTTOM. JAMB BARS ON EITHER SIDE, AND BOND BEAM ACROSS THE TOP -AS LONG AS DUCT IN NOT OVER 48" AND REBAR IS NOT MORE THAN 48" APART. IF REBAR IS MORE THAN 48", JAMB REINFORCING MUST BE INSTALLED FROM BELOW, FULL HT.

NON-LOAD BEARING INTERIOR PARTITIONS. PENETRATIONS > 24" < 47" REFER TO PLANS/ELEVATIONS FOR RQUIRED LOAD BEARING LINTELS OPENING SIZE:
LESS THAN OR EQUAL TO 24" - REFER TO ADJACENT DETAIL (ROUND OR RECTANGULAR)
GREATER THAN 24" AND LESS THAN 48" - SEE DETAIL ABOVE
GREATER THAN 48" - LINTEL SHALL BE PROVIDED IN ACCORDANCE WITH THE NON-LOAD BEARING LINTEL SCHEDULE ON SHEET S-202 , FOR MASONRY LINTEL - THE HEIGHT OF CMU ABOVE THE OPENING MUST MEET THE L/2 OR .5L CRITERIA-OTHERWISE A STEEL LINTEL MUST BE PROVIDED IN ACCORDANCE WITH THE SCHEDULE. PROVIDE FULL HEIGHT JAMBS EACH SIDE.

1 S-202 **CMU WALL UTILITY PENETRATION AND EMBEDMENT TYPICAL DETAIL**
SCALE: 1" = 1'-0"



NOTE: DO NOT PENETRATE REINFORCED PILASTERS OR END OF WALL OR WCJ JAMBS.

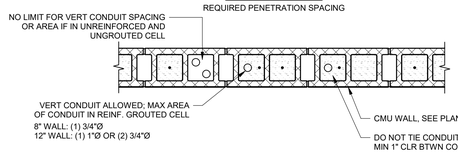
D< 8" DIA. PROVIDE MIN 8" FROM WCJ OR END OF WALL
D≥ 8" DIA. PROVIDE MIN 16" FROM WCJ OR END OF WALL

D1<D2<D3
L1 = 3*D2
L2 = 3*D3

D = DIAMETER OF PENETRATION
L = CLEAR SPACING

NOTE:
D> 24" MAY REQUIRE A LINTEL. NOTIFY THE EOR FOR LINTEL REQUIREMENTS IF NOT SHOWN ON THE CMU ELEVATIONS ON PLAN.

ELEVATION:
REQUIRED PENETRATION SPACING



PLAN DETAIL:
EMBEDDED UTILITIES

NOTES:
1. REFER TO MEP DRAWINGS FOR ALL TELECOM, CONDUIT, AND PIPES 8"Ø AND SMALLER. CONTRACTOR TO FOLLOW DETAIL SPACING REQUIREMENTS FOR LAYOUT. IF SPACING CANNOT BE MAINTAINED, PENETRATIONS MUST BE GROUPED BELOW CMU LINTEL. NOTIFY THE EOR FOR LINTEL REQUIREMENTS.
2. CONDUITS SHALL NOT PENETRATE BOND BEAMS NOR LINTELS IF AT ALL POSSIBLE.

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CONSTRUCTION DOCUMENTS

HARNETT COUNTY SCHOOLS
FLATWOODS MIDDLE SCHOOL
JOEL JOHNSON ROAD/US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

ISSUE DATE: 11/08/2024
PROJECT #: 2208
DRAWN BY: MM
CHECKED BY: TH

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MASONRY TYPICAL DETAILS

S-202

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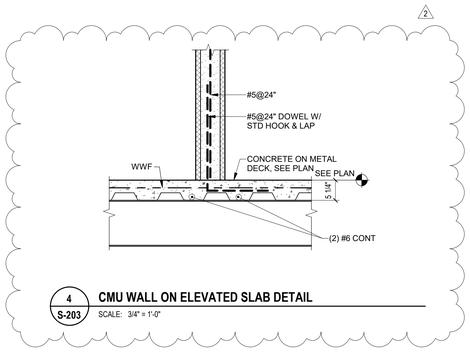
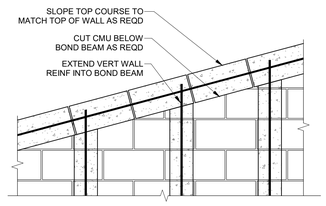
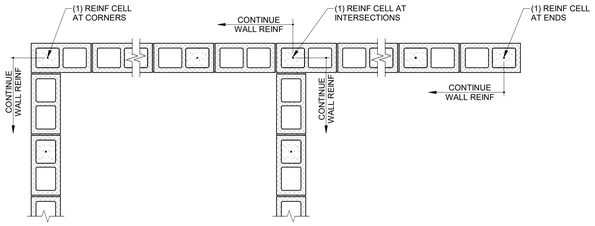


4 / S-203 CMU WALL ON ELEVATED SLAB DETAIL
SCALE: 3/4" = 1'-0"

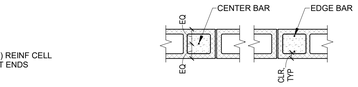


3 / S-203 TYPICAL SLOPED BOND BEAM
SCALE: 3/4" = 1'-0"
BP REF [CMU4114]



NOTES:
1. DETAIL SHOWS TYPICAL MINIMUM REINFORCING REQUIREMENTS FOR ALL LOAD BEARING WALLS, UNLESS NOTED OTHERWISE.
2. REINFORCED CELLS AT CORNERS, INTERSECTIONS, AND ENDS SHALL MATCH BAR SIZE AND COUNT OF ADJACENT WALL REINFORCING.

2 / S-203 MINIMUM REINF ARRANGEMENT AT LOAD BEARING WALL CORNERS, INTERSECTIONS AND ENDS
SCALE: 3/4" = 1'-0"
BP REF [CMU4110]



MINIMUM LAP SPLICE FOR DEFORMED BARS IN MASONRY - F'_m = 2000 PSI

BAR SIZE	8" OR 12" CMU EDGE BAR	8" CMU CENTER BAR	12" CMU CENTER BAR
#3	17"	15"	15"
#4	30"	15"	15"
#5	46"	20"	15"
#6	54"	37"	24"
#7	63"	52"	33"
#8	72"	72"	49"
#9	81"	81"	64"

NOTES:
1. UNLESS NOTED OTHERWISE, ALL LAP SPLICES AND BAR EMBEDMENTS SHALL BE AS SCHEDULED.
2. FOR EPOXY-COATED BARS, MULTIPLY SCHEDULED VALUES BY 1.5.
3. CLEAR COVER FOR EDGE BARS SHALL BE AS FOLLOWS:
   - 2" FOR #6 OR LARGER BARS EXPOSED TO EARTH OR WEATHER
   - 1 1/2" FOR ALL OTHER CONDITIONS

1 / S-203 MINIMUM LAP SPLICE FOR DEFORMED BARS IN MASONRY - F'm = 2000 PSI
SCALE: 3/4" = 1'-0"
BP REF [CMU4101]

5 / S-203 OUTRIGGER BRACKET DETAIL
SCALE: 1" = 1'-0"

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5430 Wade Park Boulevard, Suite 400
Raleigh, North Carolina 27607
919.832.5587
NC License #F-1105 Project # 23.08.035

NORTH CAROLINA PROFESSIONAL 037412 ENGINEER TIMOTHY K. HILTON 11-8-24

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MASONRY TYPICAL DETAILS

S-203

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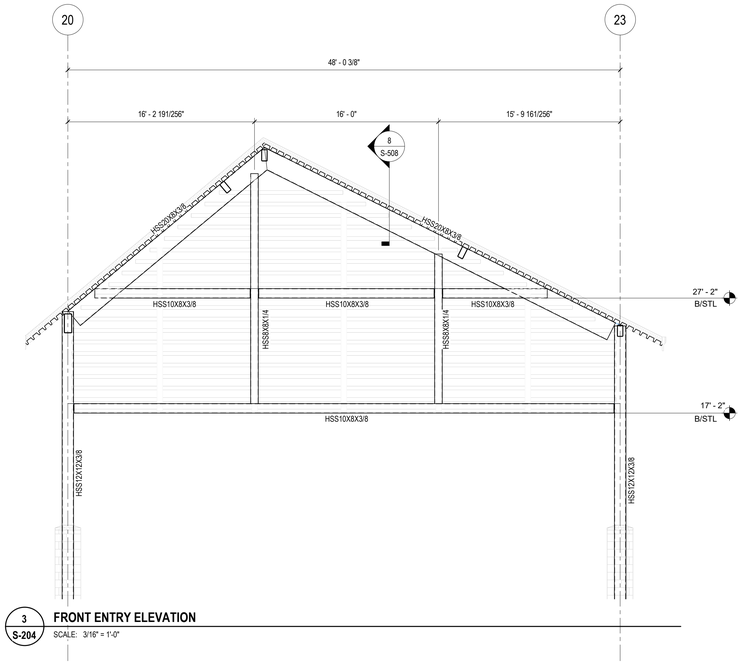
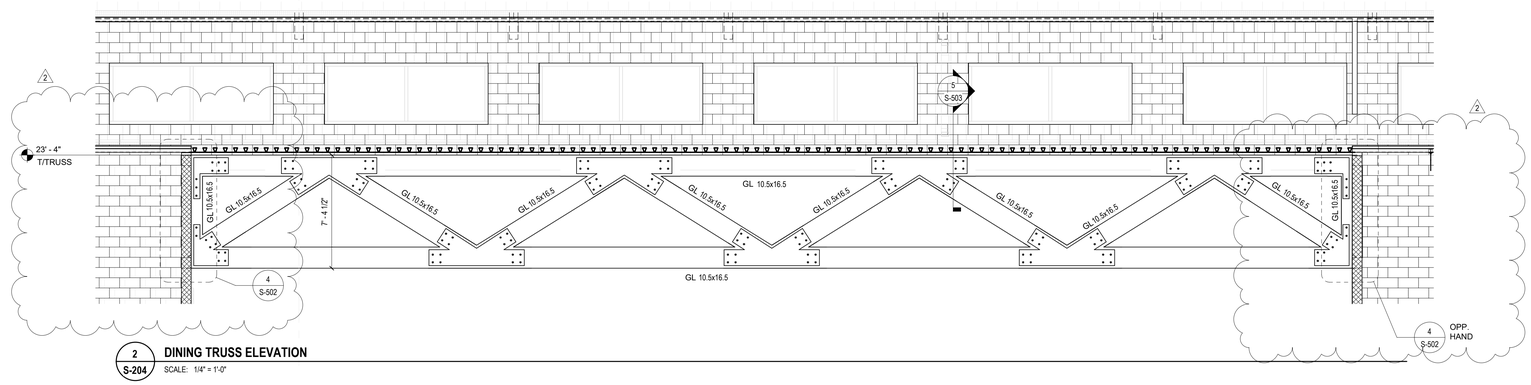
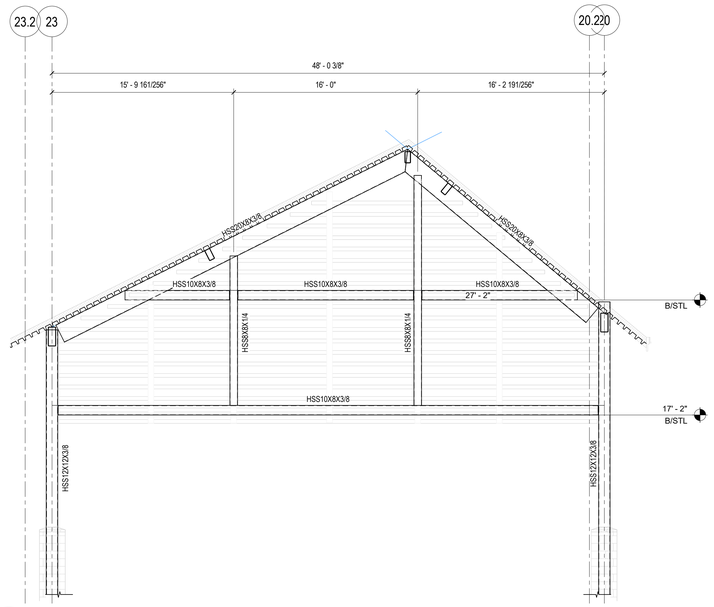


3 S-204 FRONT ENTRY ELEVATION
SCALE: 3/16" = 1'-0"



2 S-204 DINING TRUSS ELEVATION
SCALE: 1/4" = 1'-0"



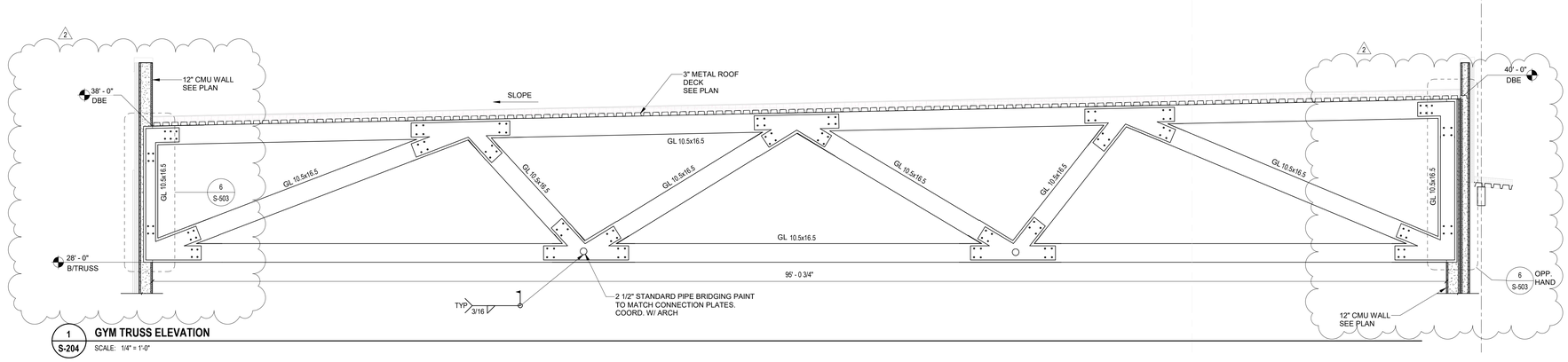
4 S-204 REAR ENTRY ELEVATION
SCALE: 3/16" = 1'-0"

GLULAM TRUSS NOTES

1. COMPLETE DESIGN CALCULATIONS, SEALED BY A NORTH CAROLINA PROFFESIONAL ENGINEER, ERECTION PLAN, AND BRACING PLAN SHALL BE PROVIDED TO THE CONTRACTOR BY THE TRUSS SUPPLIER. SUBMIT TO THE ARCHITECT FOR REVIEW.
2. ALL TRUSSES SHALL BE DESIGNED FOR THE APPLICABLE LOADINGS AS PRESCRIBED ON S-001 AND IN THE NORTH CAROLINA STATE BUILDING CODE.

   DEAD LOADS ARE SUPERIMPOSED LOADS. DESIGN SHALL INCLUDE SELF-WEIGHT OF TRUSSES AND OVERBUILD FRAMING.

   INCLUDE POINT LOADS AS SHOWN ON TRUSS ELEVATION IN DESIGN.
3. BRACE TRUSSES DURING CONSRUCTION FOR ALL LIVE AND WIND LOADS, INCLUDING WEIGHT OF MATERIAL STAGED ON TRUSSES DURING CONSTRUCTION.
4. INSTALL PERMANENT BRIDGING, BRACING, AND ANCHORAGES TO THE PRIMARY STRUCTURE AS INDICATED ON APPROVED SHOP DRAWINGS.



1 S-204 GYM TRUSS ELEVATION
SCALE: 1/4" = 1'-0"

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 037412 TIMOTHY K. HILTON 11-8-24

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TRUSS AND FRAMING ELEVATIONS

S-204

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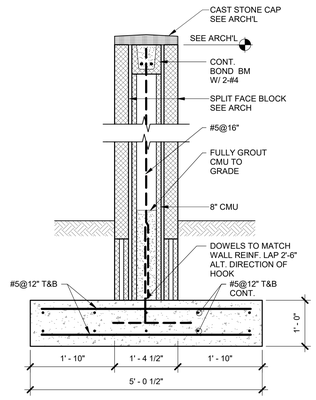
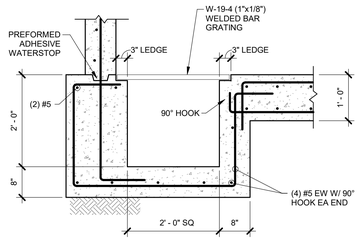
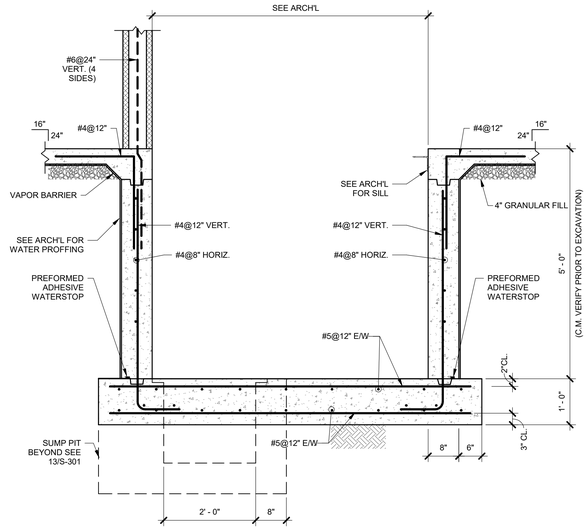


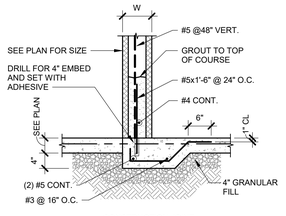
16 / S-301 — 8" CMU SCREEN WALL DETAIL
SCALE: 3/4" = 1'-0"



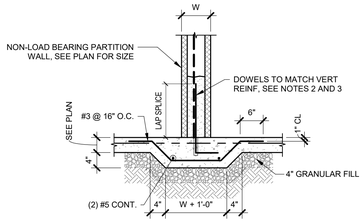
13 / S-301 — SUMP PIT DETAIL
SCALE: 3/4" = 1'-0"



12 / S-301 — SECTION THRU ELEVATOR PIT
SCALE: 3/4" = 1'-0"

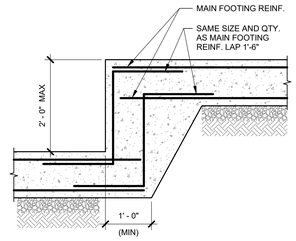


CONSTRUCTION JOINT

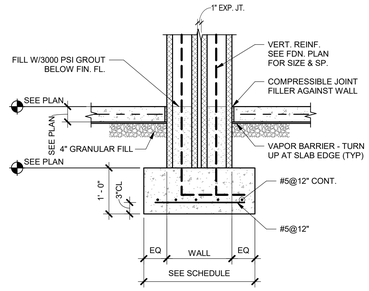


NOTES:
1. DETAIL APPLIES TO INTERIOR NON-LOAD BEARING PARTITION WALLS THAT ARE BRACED AT THE TOP OF THE WALL.
2. AT CONTRACTOR'S OPTION, DOWELS MAY BE POST-INSTALLED WITH AN APPROVED ADHESIVE (EMBED = 5" MIN).
3. FOR WALLS WITHOUT VERT REINF, PROVIDE #4 DOWELS @32" OC AND GROUT TO 4" ABOVE DOWELS.

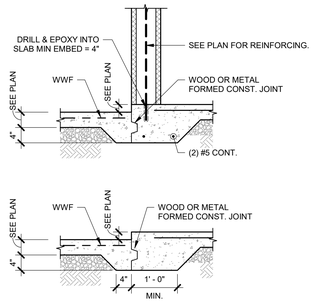
15 / S-301 — THICKENED SLAB @ NON-LOAD BEARING PARTITION WALL
SCALE: 3/4" = 1'-0"



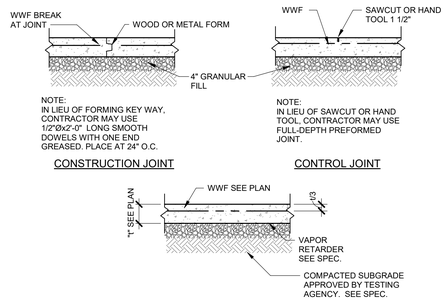
11 / S-301 — STEPPED FOOTING DETAIL
SCALE: 3/4" = 1'-0"



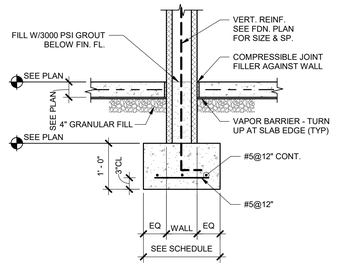
14 / S-301 — FOOTING DETAIL AT RATED WALL
SCALE: 3/4" = 1'-0"



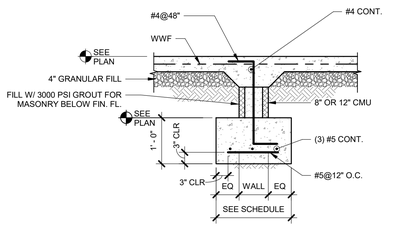
10 / S-301 — TYPICAL DEPRESSED SLAB
SCALE: 3/4" = 1'-0"



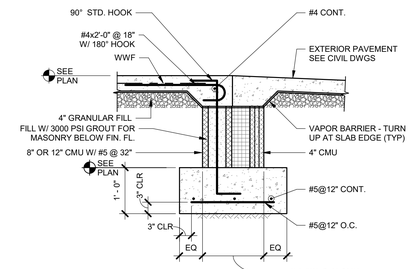
9 / S-301 — TYPICAL SLAB ON GRADE DETAIL
SCALE: 3/4" = 1'-0"



8 / S-301 — INTERIOR WALL FOOTING DETAIL
SCALE: 3/4" = 1'-0"



7 / S-301 — TYPICAL INTERIOR DOOR OPENING
SCALE: 3/4" = 1'-0"



6 / S-301 — TYPICAL DOOR OPENING
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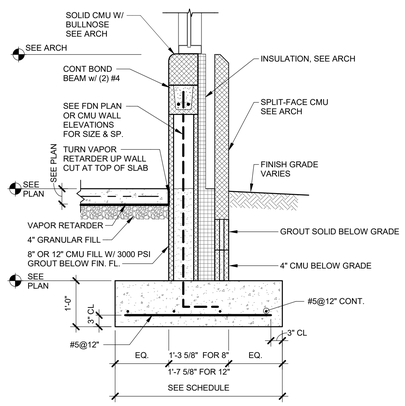
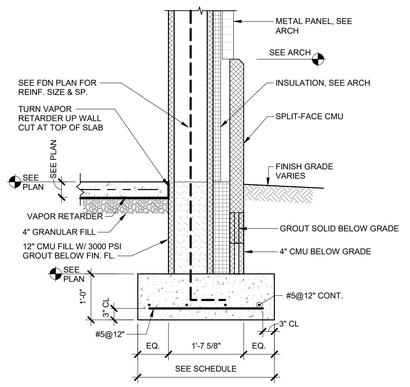
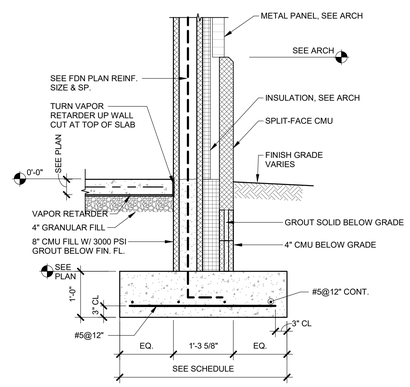


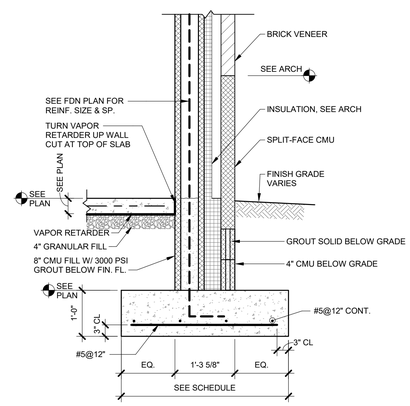
5 / S-301 — EXTERIOR WALL FOOTING @ WINDOW
SCALE: 3/4" = 1'-0"



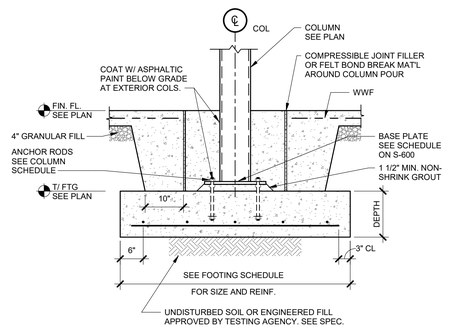
4 / S-301 — EXT. 12" CMU WALL FOOTING DETAIL @ METAL PANEL
SCALE: 3/4" = 1'-0"



3 / S-301 — EXT. 8" CMU WALL FOOTING DETAIL @ METAL PANEL
SCALE: 3/4" = 1'-0"



2 / S-301 — EXTERIOR 8" CMU WALL FOOTING DETAIL @ BRICK
SCALE: 3/4" = 1'-0"



1 / S-301 — STEEL COLUMN FOOTING DETAIL
SCALE: 3/4" = 1'-0"

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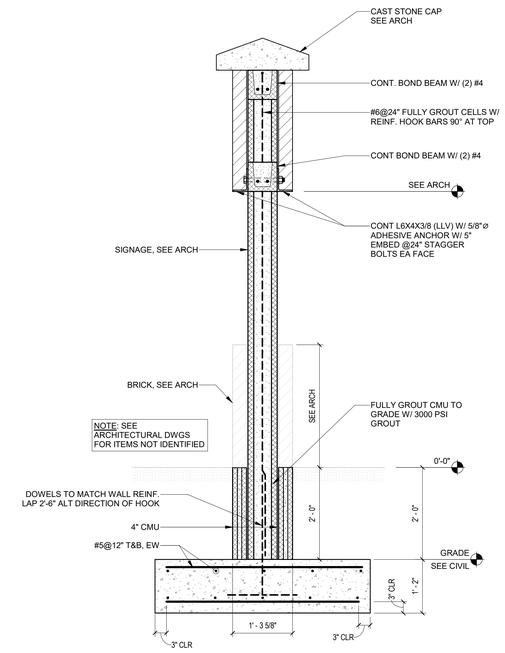
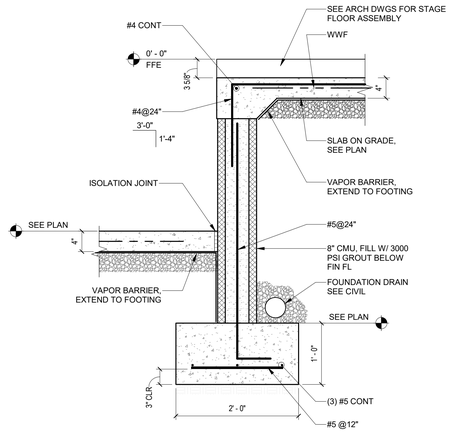
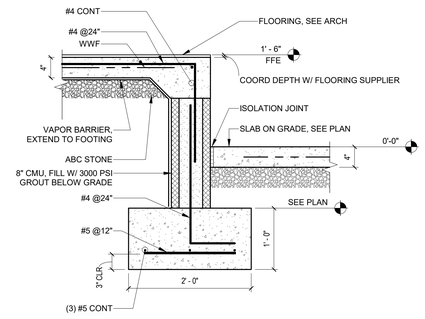


13 S-302 MONUMENTAL SIGN DETAIL
SCALE: 3/4" = 1'-0"



12 S-302 STAGE DETAIL
SCALE: 1" = 1'-0"



11 S-302 SECTION AT COLLABORATION STAIR
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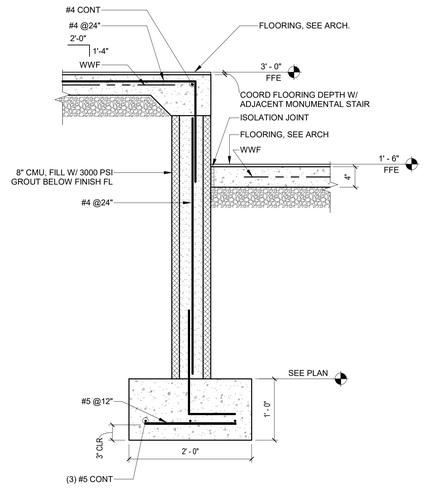

10 S-302 SECTION AT COLLABORATION STAIR
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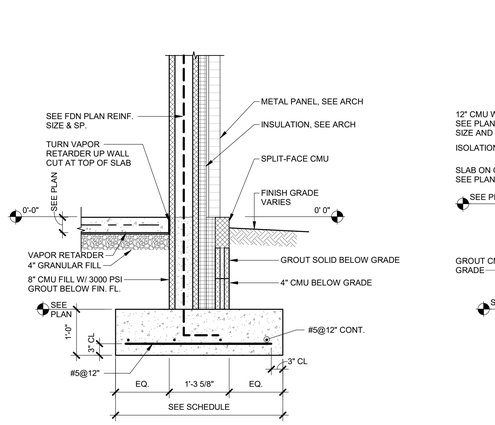
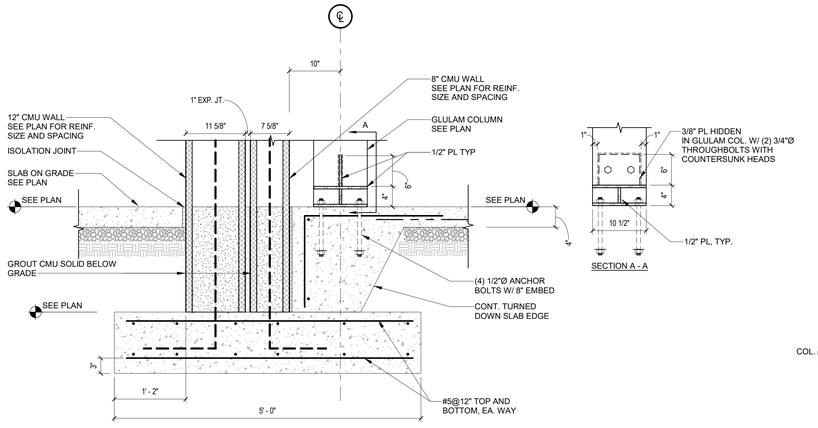
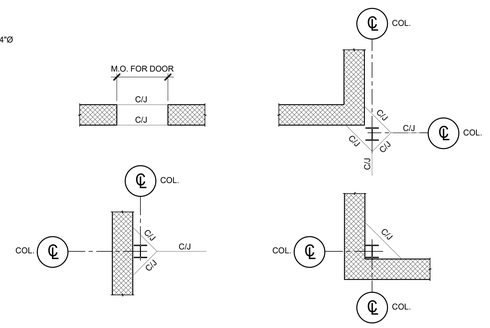


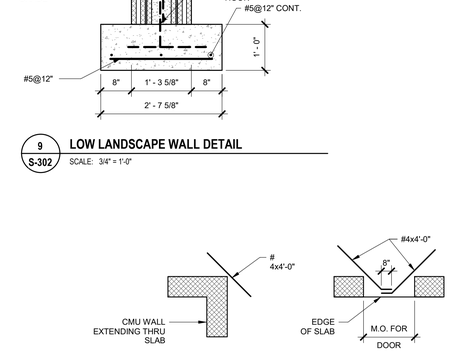
8 S-302 EXT. 8" CMU WALL FOOTING DETAIL @ METAL PANEL
SCALE: 3/4" = 1'-0"



7 S-302 GLULAM COLUMN FOOTING DETAIL
SCALE: 1" = 1'-0"

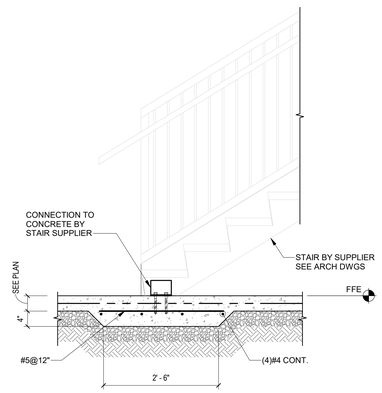


6 S-302 CONTROL JOINT DETAILS
SCALE: 1/4" = 1'-0"

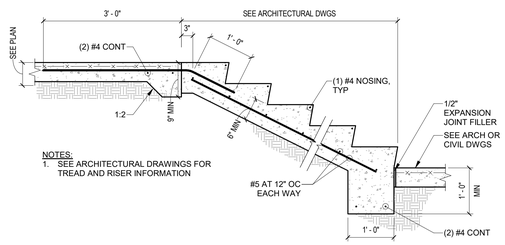


9 S-302 LOW LANDSCAPE WALL DETAIL
SCALE: 3/4" = 1'-0"

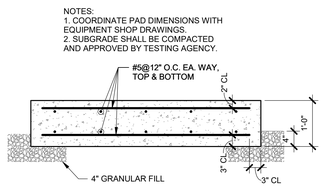
5 S-302 SLAB PLAN @ RE-ENTRANT CORNER
SCALE: 1/4" = 1'-0"



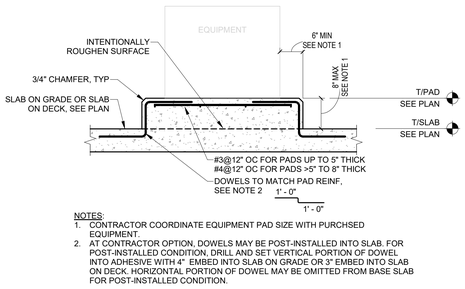
4 S-302 TYPICAL STAIR STRINGER @ THICKENED SLAB
SCALE: 3/4" = 1'-0"



3 S-302 SECTION AT TYPICAL STAIR ON GRADE
SCALE: 3/4" = 1'-0"
BP REF [FND-1.10]



2 S-302 EXTERIOR EQUIPMENT PAD
SCALE: 3/4" = 1'-0"



1 S-302 TYPICAL HOUSEKEEPING PAD
SCALE: 3/4" = 1'-0"
BP REF [FDN1103]

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NORTH CAROLINA PROFESSIONAL SEAL 037412 ENGINEER TIMOTHY K. HILTON 11-8-24

CONSTRUCTION DOCUMENTS

HARNETT COUNTY SCHOOLS

FLATWOODS MIDDLE SCHOOL

JOEL JOHNSON ROAD/US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

ISSUE DATE: 11/08/2024
PROJECT #: 2208
DRAWN BY: MM
CHECKED BY: TH

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FOUNDATION DETAILS

S-302

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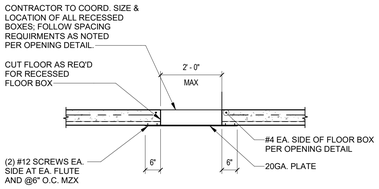
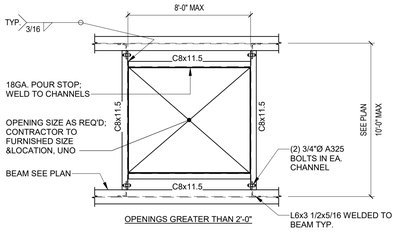


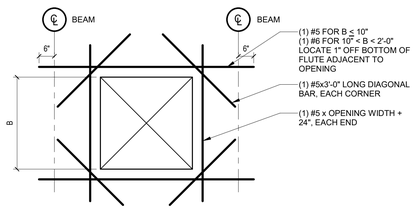
RECESSED FLOOR BOX



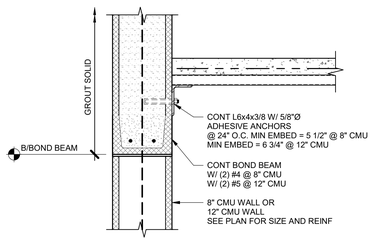
OPENINGS GREATER THAN 2'-0"

NOTES:
1. PROVIDE FRAMING AROUND ALL DUCT PENETRATIONS, CHASES, ELECTRICAL BOXES PLUMBING PIPES , AND OTHER OPENINGS IN SLABS, FOR OPENING LARGER 2'-0"x2'-0" IN ADDITION TO SLAB REINFORCEMENT.
2. OPENING THAT ARE SPACED CLOSER THAN (2) TIMES THE OPENING SIZE SHALL BE CONSIDERED ONE OPENING.
3. MINIMUM CLEAR DISTANCE BETWEEN OPENING IS 1'-0"
4. OPENINGS GREATER THAN 2'-0" NOT SHOWN ON STRUCTURAL DWGS. REQUIRE APPROVAL FROM THE ENGINEER OF RECORD.
5. FORM PENETRATIONS TO EXCLUDE CONCRETE. DO NOT CUT DECK UNTIL SLAB HAS REACHED DESIGN STRENGTH.

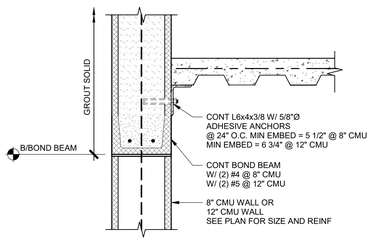
7 S-401 OPENING IN SLAB
SCALE: 1/2" = 1'-0"



NOTES:
1. PROVIDE REINFORCING AROUND ALL DUCT PENETRATIONS, CHASES, ELECTRICAL BOXES PLUMBING PIPES , AND OTHER OPENINGS IN SLABS, FOR OPENING FROM 8"x8" (OR 8"Ø) TO 4'-0"x4'-0" (OR 24"Ø).
2. MINIMUM CLEAR DISTANCE BETWEEN OPENING IS 2'-0".
3. ALL OPENINGS 10" TO 2'-0" MAY NOT BE SHOWN ON STRUCTURAL DWGS.
4. OPENINGS GREATER THAN 2'-0" NOT SHOWN ON STRUCTURAL DWGS. REQUIRE APPROVAL FROM THE ENGINEER OF RECORD.
5. OPENING FOR DUCT
   1. RUN DECK THRU OPENING AREA
   2. FORM OPENING
   3. POUR SLAB
   4. CUT DECK OUT AFTER CONCRETE HAS ATTAINED DESIGN STRENGTH.

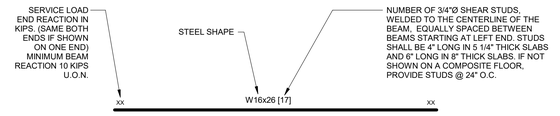


DECK PERPENDICULAR

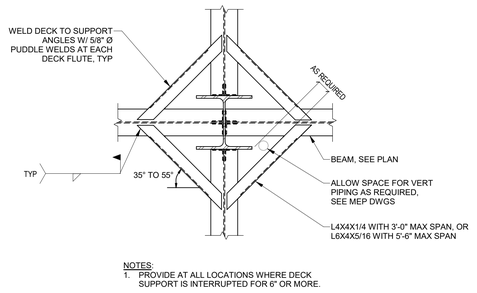


DECK PARALLEL

6 S-401 TYPICAL COMPOSITE SLAB SUPPORT @ CMU WALL
SCALE: 1" = 1'-0"



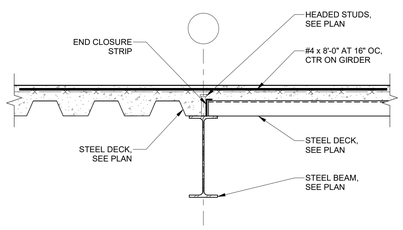
8 S-401 COMPOSITE BEAM LEGEND
SCALE: 1 1/2" = 1'-0"



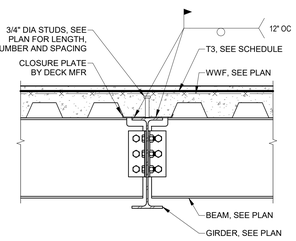
NOTES:
1. PROVIDE AT ALL LOCATIONS WHERE DECK SUPPORT IS INTERRUPTED FOR 6" OR MORE.

5 S-401 TYPICAL METAL DECK SUPPORT AT COLUMNS
SCALE: 3/4" = 1'-0"
BP REF [SS2204]

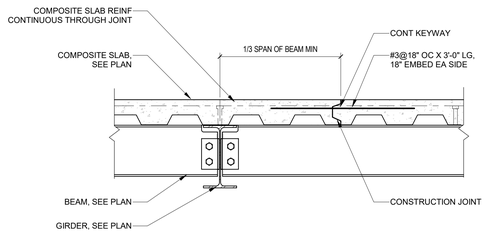
SLAB TOP BAR SCHEDULE			
MARK	SIZE & SP.	LENGTH	REMARK
T1	#4 @ 12"	3' - 6"	HOOK ONE END
T2	#4 @ 12"	4' - 0"	
T3	#4 @ 12"	3' - 0"	



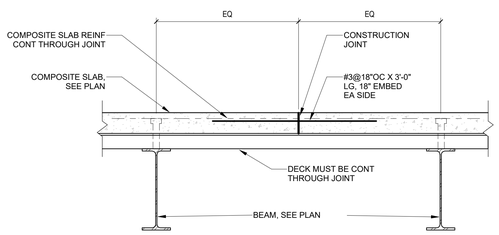
4 S-401 SECTION AT CLOSURE AT DECK DIRECTION CHANGE
SCALE: 1" = 1'-0"
BP REF [SS-2.05]



3 S-401 DETAIL AT TYPICAL COMPOSITE GIRDER
SCALE: 1" = 1'-0"
BP REF [SS-1.01]



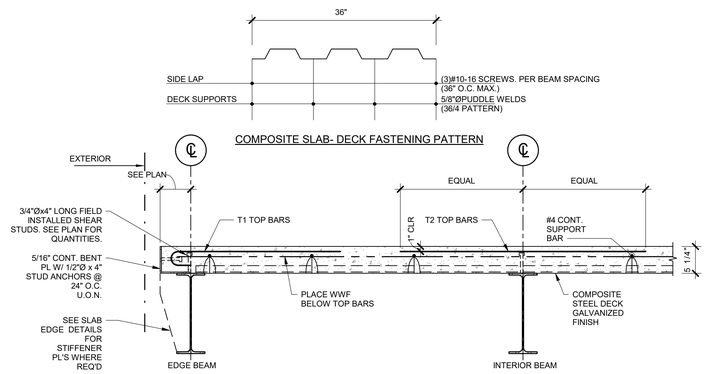
CONSTRUCTION JOINT PARALLEL TO GIRDER



CONSTRUCTION JOINT PARALLEL TO INFILL BEAMS

NOTES:
1. CONTRACTOR SHALL SUBMIT LOCATIONS OF ALL CONSTRUCTION JOINTS FOR APPROVAL PRIOR TO CONSTRUCTION AND FABRICATION.

2 S-401 CONSTRUCTION JOINTS IN COMPOSITE DECK
SCALE: 1" = 1'-0"
BP REF [SS2205]



NOTES:
1. DO NOT PAINT TOP SIDE OF TOP FLANGE OF BEAM.
2. COMPOSITE SLABS HAVE BEEN DESIGNED AS "UNSHORED" CONSTRUCTION.
3. DECK SHALL BE CONTINUOUS OVER 2 OR MORE SPANS. TYP.
4. CONCRETE OVERAGES IN ELEVATED DECK POURS. MAYBE CALCULATED BY THE CONTRACTOR FOR BEAM DEFLECTIONS L/300 ADDITIONAL DEFLECTIONS DUE TO DECK DEFLECTIONS PER SDI SHOULD BE INCLUDED.

1 S-401 TYPICAL COMPOSITE BEAM AND SLAB DETAIL
SCALE: 1" = 1'-0"

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NORTH CAROLINA PROFESSIONAL 037412 ENGINEER TIMOTHY K. HILTON 11-8-24

CONSTRUCTION DOCUMENTS

HARNETT COUNTY SCHOOLS
FLATWOODS MIDDLE SCHOOL
JOEL JOHNSON ROAD/US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

ISSUE DATE: 11/08/2024
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COMPOSITE FRAMING TYPICAL DETAILS

S-401

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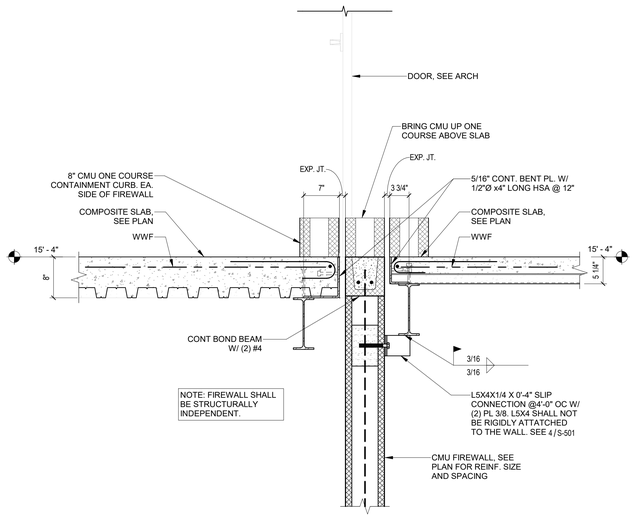
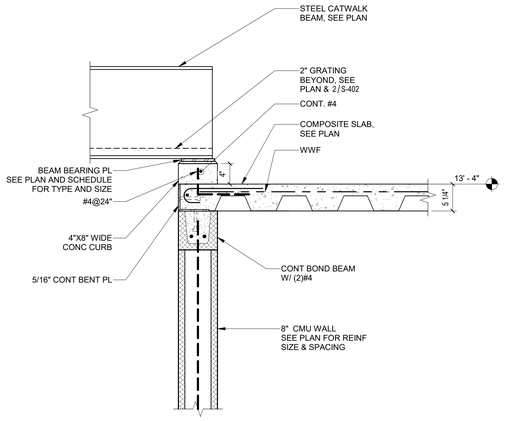
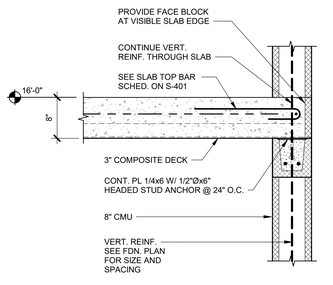


11 / S-402 SECTION THRU MECH'L PLATFORM
SCALE: 1" = 1'-0"



10 / S-402 DETAIL AT AREA 200 CATWALK
SCALE: 1" = 1'-0"



9 / S-402 SECT. THRU WALL AT EXPOSED CMU
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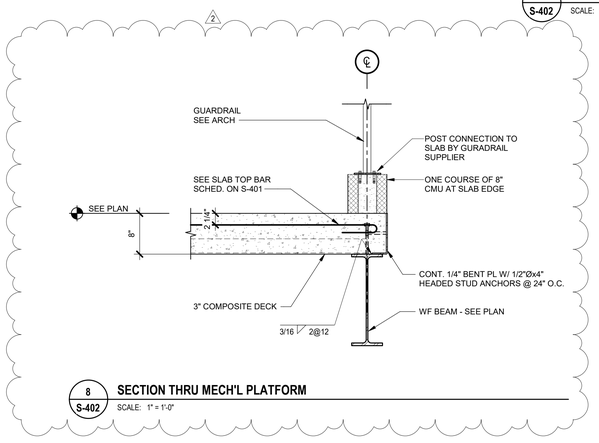

8 / S-402 SECTION THRU MECH'L PLATFORM
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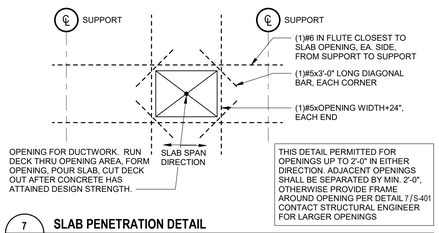
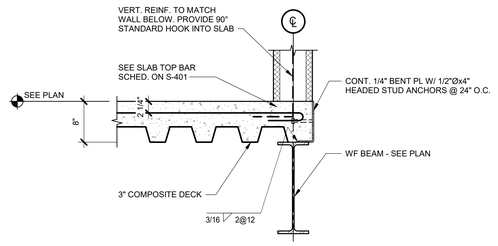
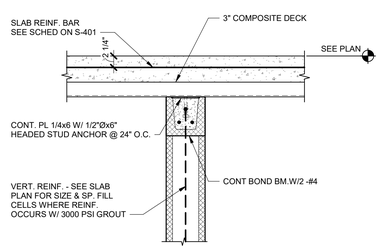


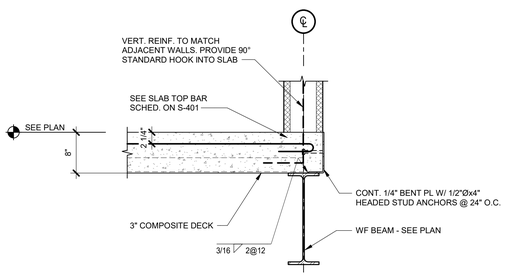
7 / S-402 SLAB PENETRATION DETAIL
SCALE: 1/2" = 1'-0"



6 / S-402 SECTION THRU MECH'L PLATFORM
SCALE: 1" = 1'-0"



5 / S-402 SLAB BEARING DETAIL
SCALE: 1" = 1'-0"



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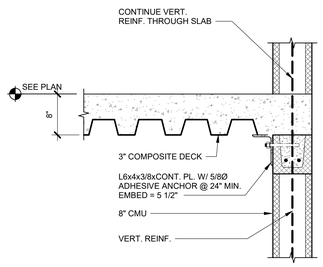

3 / S-402 SECTION THRU MECH'L PLATFORM
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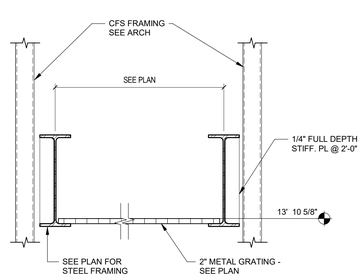
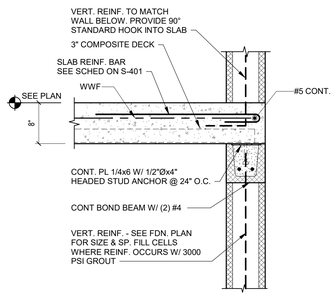


2 / S-402 SECTION AT CATWALK
SCALE: 1" = 1'-0"



1 / S-402 SECTION THRU WALL
SCALE: 1" = 1'-0"

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JOEL JOHNSON ROAD/US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description
2	12-13-24	CD REVISIONS

ISSUE DATE: 11/08/2024

PROJECT #: 2208
DRAWN BY: MM
CHECKED BY: TH

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MECH. PLATFORM 400 AND 500/600 TYPICAL DETAILS

S-402

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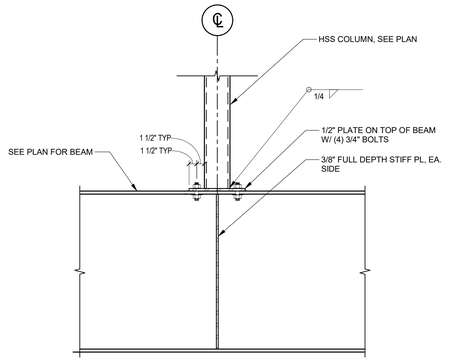
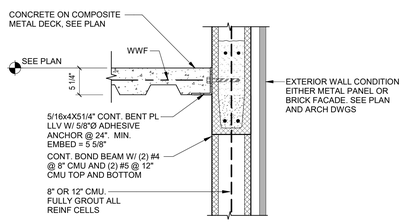


11 / S-403 STEEL POST TO TRANSFER BEAM CONNECTION
SCALE: 1" = 1'-0"



10 / S-403 SECTION THRU FLOOR
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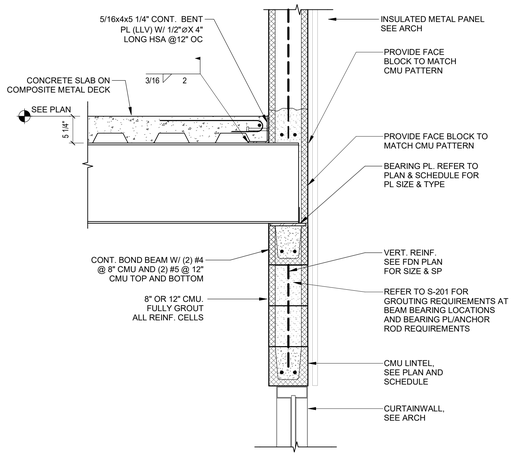

9 / S-403 SECTION THRU FLOOR
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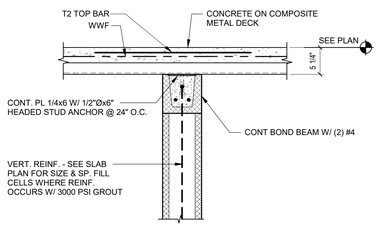

8 / S-403 SLAB BEARING DETAIL
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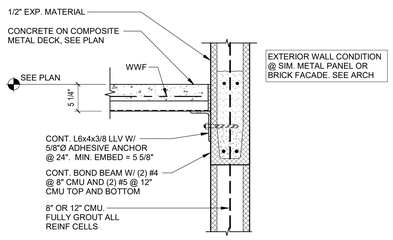

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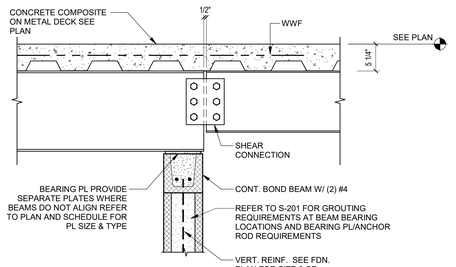
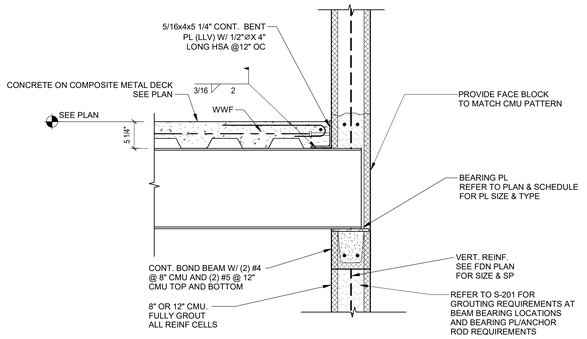


6 / S-403 BEAM BEARING DETAIL
SCALE: 1" = 1'-0"



5 / S-403 SECTION THRU FLOOR
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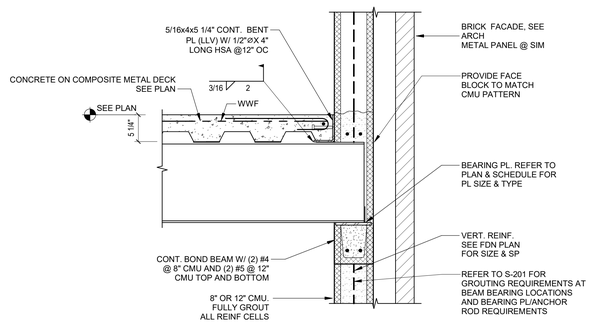

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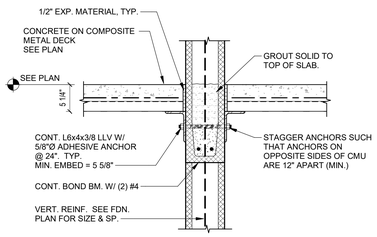
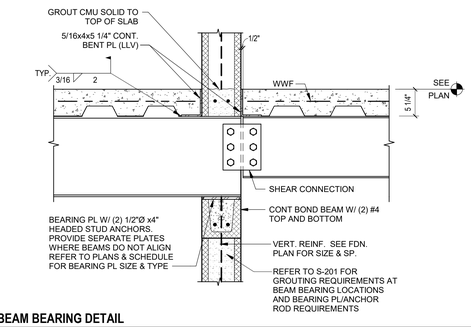
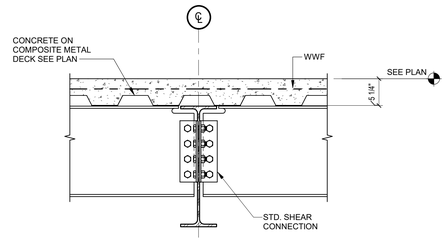


3 / S-403 SECTION THRU FLOOR
SCALE: 1" = 1'-0"



2 / S-403 BEAM BEARING DETAIL
SCALE: 1" = 1'-0"



1 / S-403 STEEL BEAM CONNECTION DETAIL
SCALE: 1" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 037412 ENGINEER TIMOTHY K. HILTON 11-8-24

CONSTRUCTION DOCUMENTS

HARNETT COUNTY SCHOOLS

FLATWOODS MIDDLE SCHOOL

JOEL JOHNSON ROAD/US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

ISSUE DATE: 11/08/2024
PROJECT #: 2208
DRAWN BY: MM
CHECKED BY: TH

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FLOOR FRAMING DETAILS

S-403

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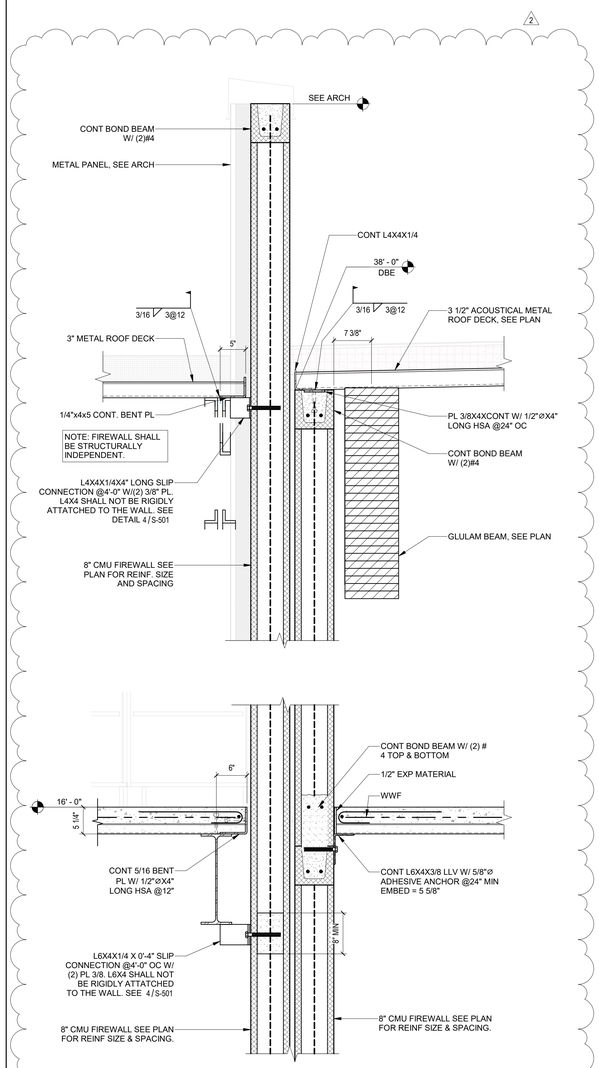
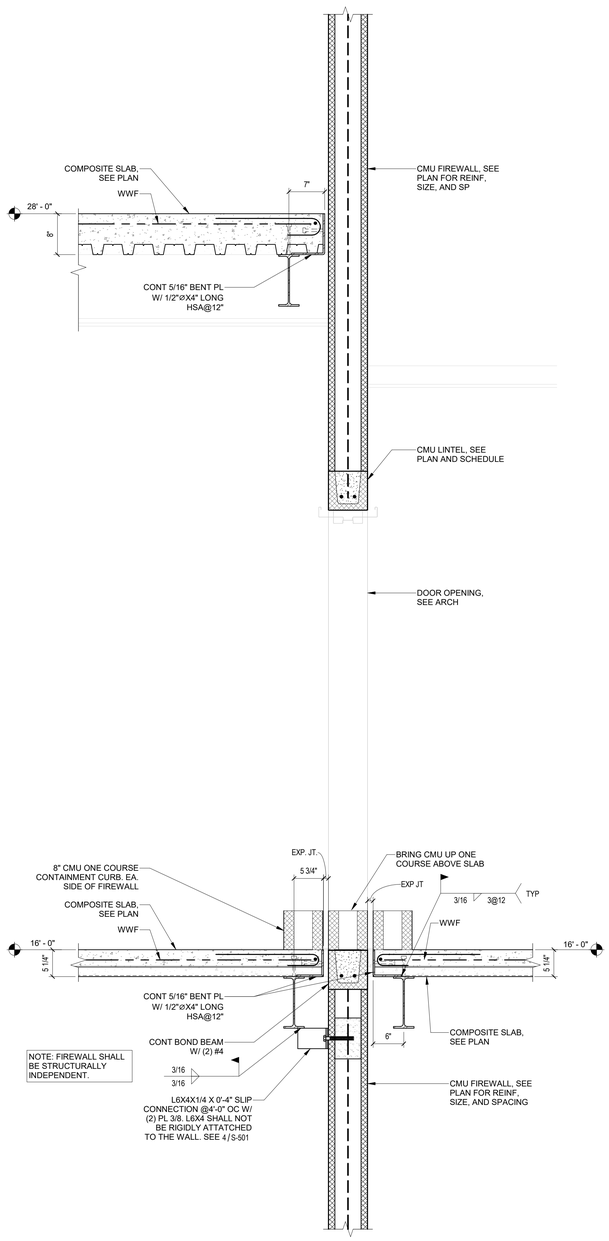
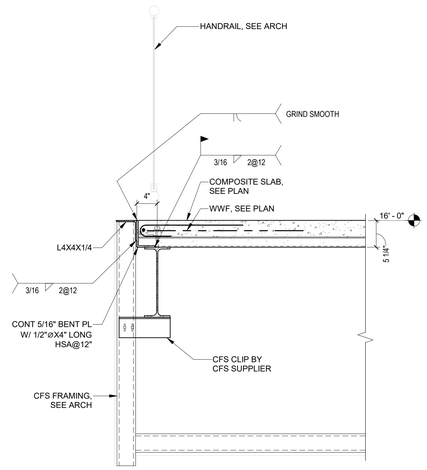


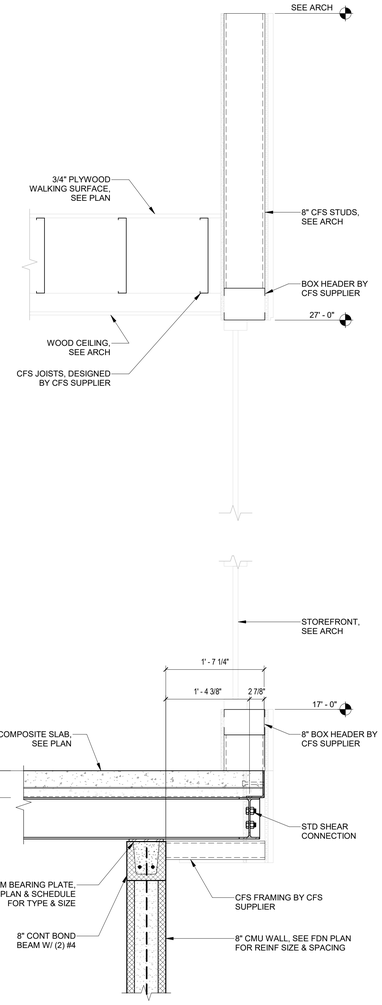
4 S-404 **SECTION AT EXPANSION JOINT**
SCALE: 1" = 1'-0"



3 S-404 **SECTION AT EXPANSION JOINT**
SCALE: 1" = 1'-0"



2 S-404 **SECTION THRU FLOOR**
SCALE: 1" = 1'-0"



1 S-404 **SECTION THRU FLOOR**
SCALE: 1" = 1'-0"

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NORTH CAROLINA PROFESSIONAL 037412 ENGINEER TIMOTHY K. HILTON
11-8-24

CONSTRUCTION DOCUMENTS

HARNETT COUNTY SCHOOLS

FLATWOODS MIDDLE SCHOOL

JOEL JOHNSON ROAD/US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description
2	12-13-24	CD REVISIONS

ISSUE DATE: 11/08/2024
PROJECT #: 2208
DRAWN BY: MM
CHECKED BY: TH

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FLOOR FRAMING DETAILS

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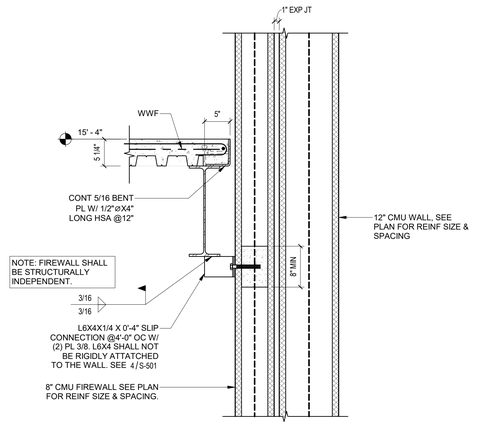
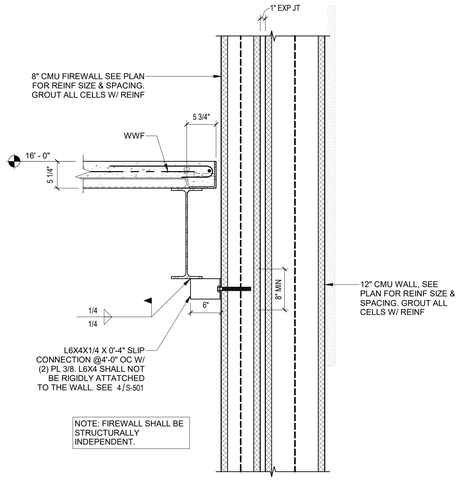


2 S-405 **SECTION AT FIREWALL**
SCALE: 1" = 1'-0"



1 S-405 **SECTION AT FIREWALL**
SCALE: 1" = 1'-0"

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NORTH CAROLINA PROFESSIONAL 037412 ENGINEER TIMOTHY K. HILTON
11-8-24

CONSTRUCTION DOCUMENTS

HARNETT COUNTY SCHOOLS

FLATWOODS MIDDLE SCHOOL

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No.	Date	Description

ISSUE DATE: 11/08/2024
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FLOOR FRAMING DETAILS

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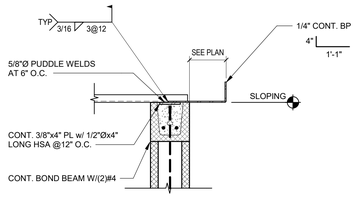
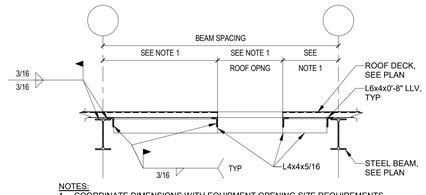
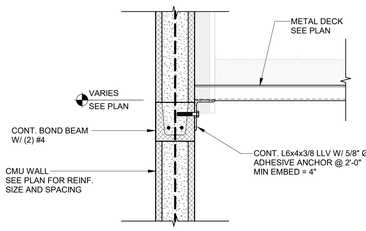


16 / S-501 SECTION ROOF EDGE
SCALE: 1" = 1'-0"

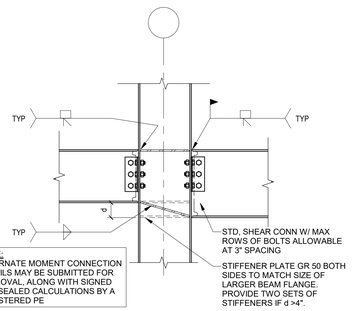


NOTES:
1. COORDINATE DIMENSIONS WITH EQUIPMENT OPENING SIZE REQUIREMENTS.
2. SEE "FRAMED ROOF OPENING NOTES" FOR ADDITIONAL INFORMATION.

12 / S-501 SECTION AT TYPICAL FRAMED ROOF OPENING
SCALE: 3/4" = 1'-0"
BP REF [SS-2.35A]



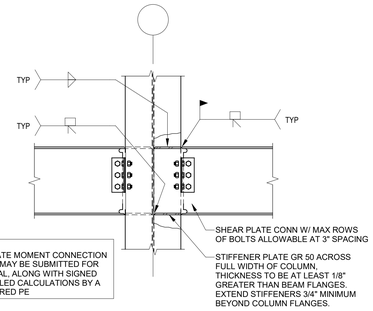
15 / S-501 ROOF DETAIL
SCALE: 1" = 1'-0"



NOTE:
ALTERNATE MOMENT CONNECTION DETAILS MAY BE SUBMITTED FOR APPROVAL, ALONG WITH SIGNED AND SEALED CALCULATIONS BY A REGISTERED PE

BEAM TO COLUMN FLANGES

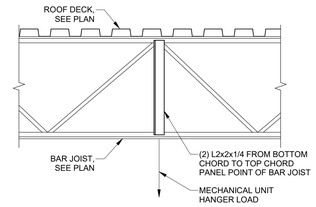
14 / S-501 DETAIL AT TYPICAL ECCENTRIC MOMENT CONNECTION
SCALE: 3/4" = 1'-0"
BP REF [SS-1.22]



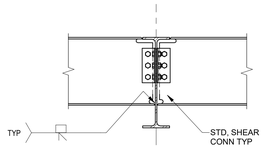
NOTE:
ALTERNATE MOMENT CONNECTION DETAILS MAY BE SUBMITTED FOR APPROVAL, ALONG WITH SIGNED AND SEALED CALCULATIONS BY A REGISTERED PE

BEAM TO COLUMN WEB

13 / S-501 DETAIL AT TYPICAL MOMENT CONNECTION
SCALE: 3/4" = 1'-0"
BP REF [SS-1.23]



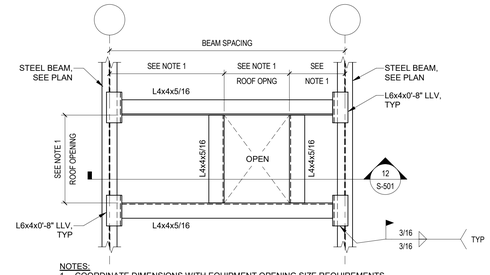
11 / S-501 DETAIL AT TYPICAL MECHANICAL HUNG FROM JOIST
SCALE: 1" = 1'-0"
BP REF [SS-1.16]



BEAM TO GIRDER

NOTE:
ALTERNATE MOMENT CONNECTION DETAILS MAY BE SUBMITTED FOR APPROVAL, ALONG WITH SIGNED AND SEALED CALCULATIONS BY A REGISTERED PE

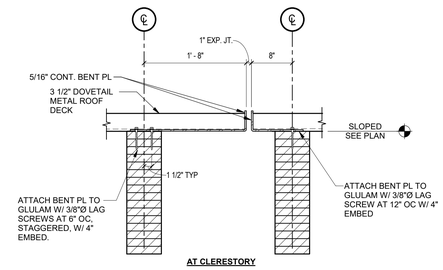
10 / S-501 DETAIL AT TYPICAL MOMENT CONNECTION
SCALE: 3/4" = 1'-0"
BP REF [SS-1.24]



NOTES:
1. COORDINATE DIMENSIONS WITH EQUIPMENT OPENING SIZE REQUIREMENTS.
2. SEE "FRAMED ROOF OPENING NOTES" FOR ADDITIONAL INFORMATION.

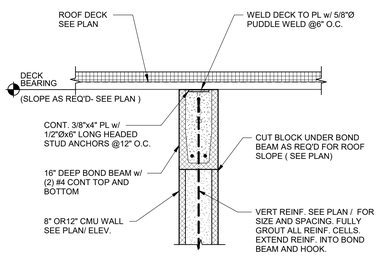
FRAMED ROOF OPENING NOTES:
A. FRAMED OPENING REQUIRED IN ROOF FOR ALL OPENINGS GREATER THAN 1'-0" AND/OR SUPPORTING EQUIPMENT GREATER THAN 100 POUNDS.
B. COORDINATE SIZE OF OPENING REQUIRED WITH APPROPRIATE MANUFACTURER.
C. SEE ROOF FRAMING PLAN FOR ORIENTATION.

9 / S-501 PLAN DETAIL AT TYPICAL FRAMED ROOF OPENING
SCALE: 3/4" = 1'-0"
BP REF [SS-2.35]

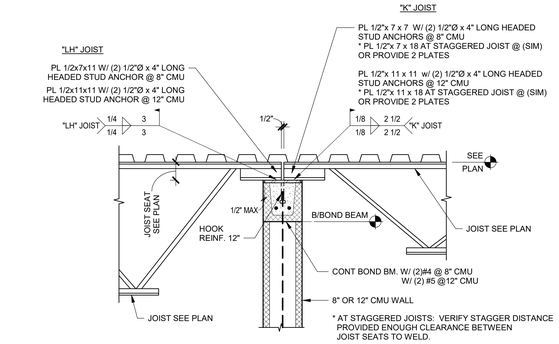


AT CLERESTORY

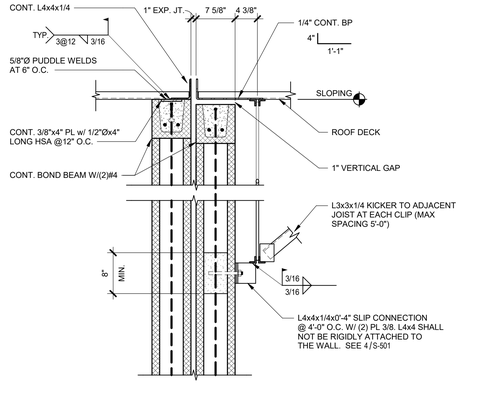
8 / S-501 SECTION THRU ROOF EXP. JT.
SCALE: 1" = 1'-0"



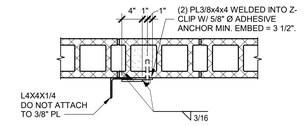
7 / S-501 SHEARWALL CONNECTION TO ROOF DECK
SCALE: 1" = 1'-0"



6 / S-501 JOIST BEARING DETAIL @ ROOF
SCALE: 1" = 1'-0"



5 / S-501 SECTION AT FIREWALL
SCALE: 1" = 1'-0"



4 / S-501 SLIP CONNECTION AT FIREWALL
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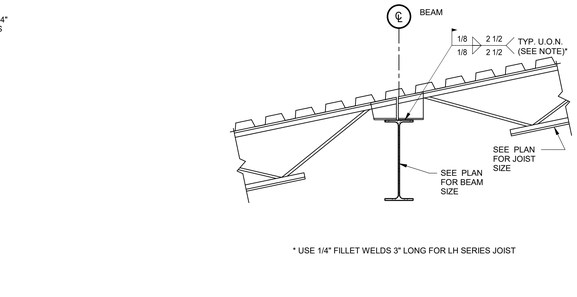
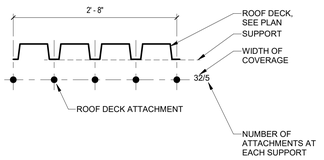


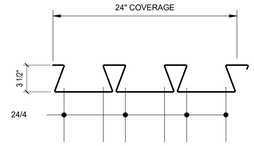
3 / S-501 JOIST BEARING DETAIL @ ROOF
SCALE: 1" = 1'-0"

* USE 1/4" FILLET WELDS 3" LONG FOR LH SERIES JOIST

2 / S-501 JOIST BEARING DETAIL
SCALE: 1" = 1'-0"



3" TYPE NL & NLA



3 1/2" LONG SPAN DOVETAIL ACOUSTICAL

1 / S-501 DECK ATTACHMENT PATTERNS
SCALE: 1 1/2" = 1'-0"

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 037412 TIMOTHY K. HILTON 11-8-24

CONSTRUCTION DOCUMENTS

HARNETT COUNTY SCHOOLS

FLATWOODS MIDDLE SCHOOL

JOEL JOHNSON ROAD/US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

ISSUE DATE: 11/08/2024
PROJECT #: 2208
DRAWN BY: MM
CHECKED BY: TH

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ROOF FRAMING STEEL TYPICAL DETAILS

S-501

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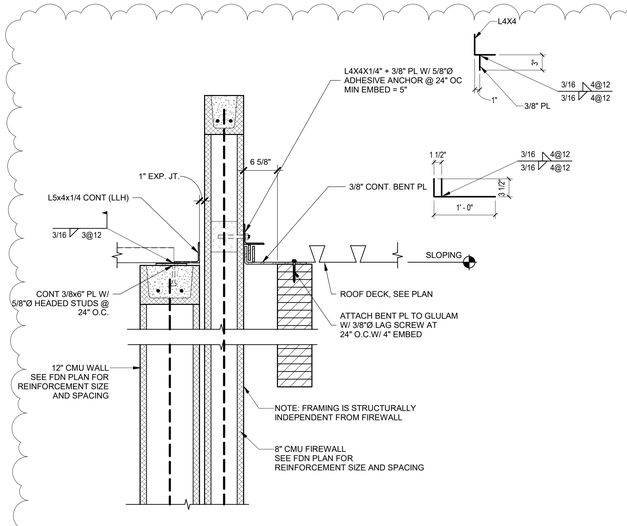
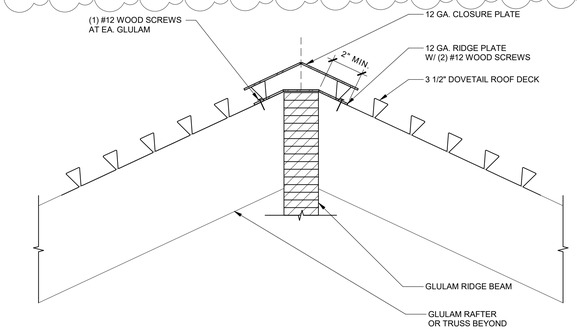


7 S-502 **SECTION THRU FIREWALL**
SCALE: 1" = 1'-0"



6 S-502 **SECTION AT RIDGE**
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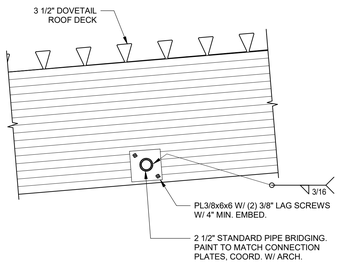
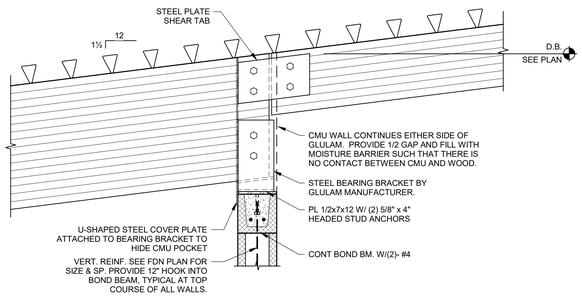
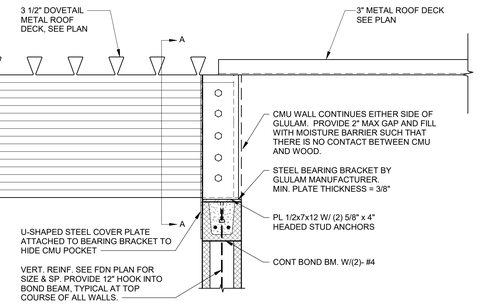


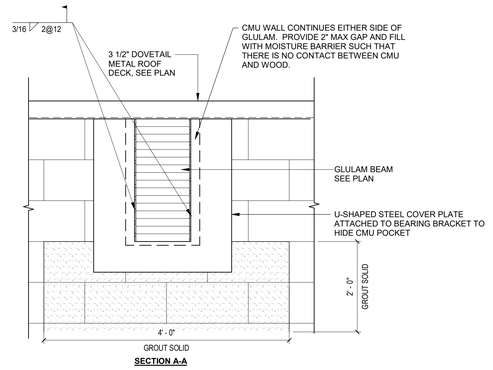
5 S-502 **SECTION AT GLULAM BRIDGING**
SCALE: 1" = 1'-0"



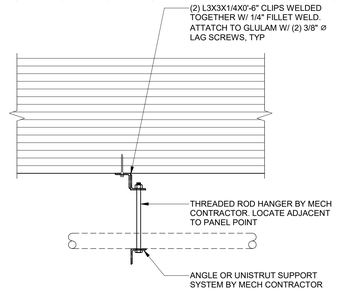
3 S-502 **JOIST BEARING DETAIL AT HIDDEN CONNECTIONS**
SCALE: 1" = 1'-0"



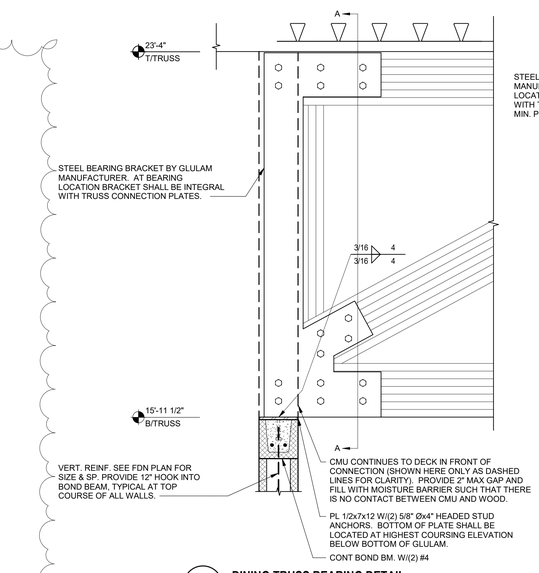
8 S-502 **GLULAM BEAM BEARING DETAIL AT DINING**
SCALE: 1" = 1'-0"



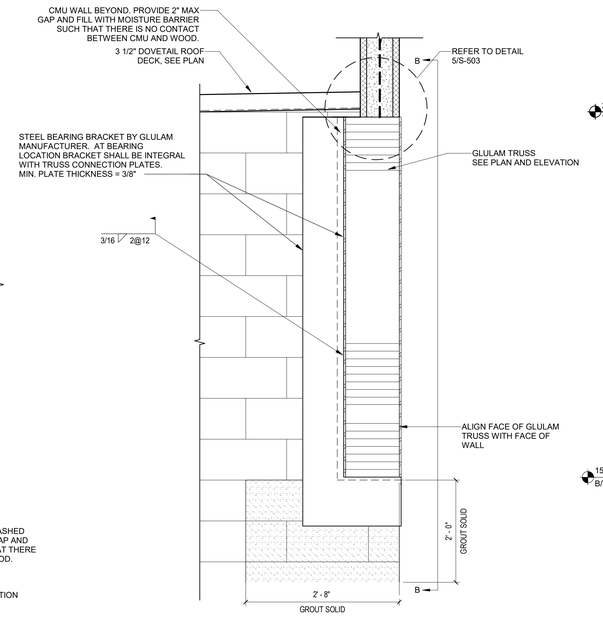
SECTION A-A



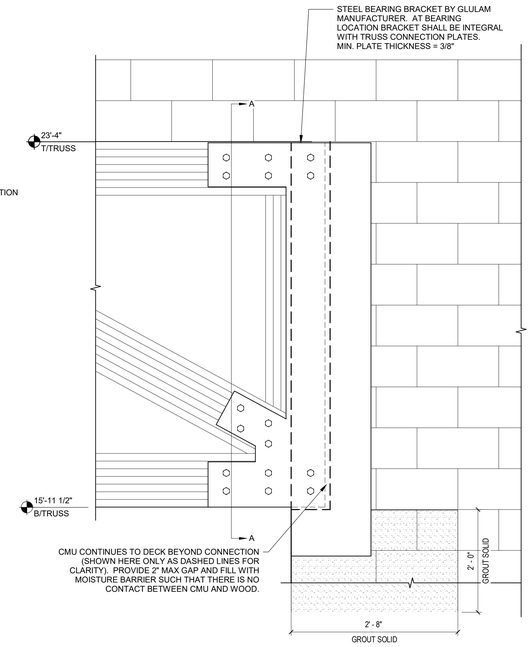
9 S-502 **UTILITY SUPPORT DETAIL**
SCALE: 1" = 1'-0"



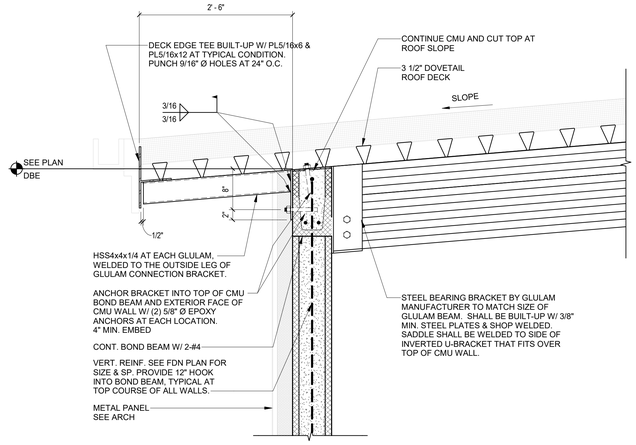
4 S-502 **DINING TRUSS BEARING DETAIL**
SCALE: 1" = 1'-0"



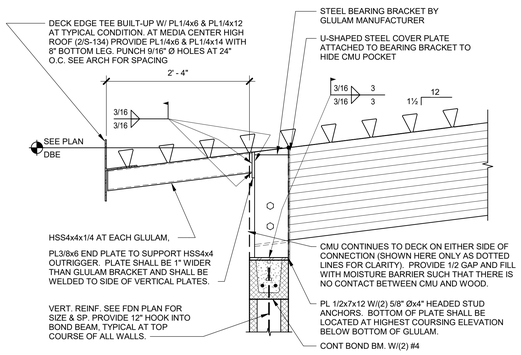
SECTION A-A



SECTION B-B



2 S-502 **SECTION THRU ROOF**
SCALE: 1" = 1'-0"



1 S-502 **SECTION THRU ROOF**
SCALE: 1" = 1'-0"

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HARNETT COUNTY SCHOOLS

FLATWOODS MIDDLE SCHOOL

JOEL JOHNSON ROAD/US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description
2	12-13-24	CD REVISIONS

ISSUE DATE: 11/08/2024

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ROOF FRAMING GLULAM DETAILS

S-502

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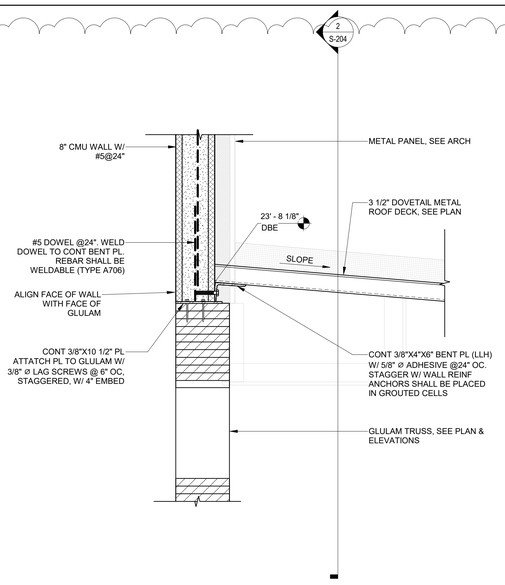
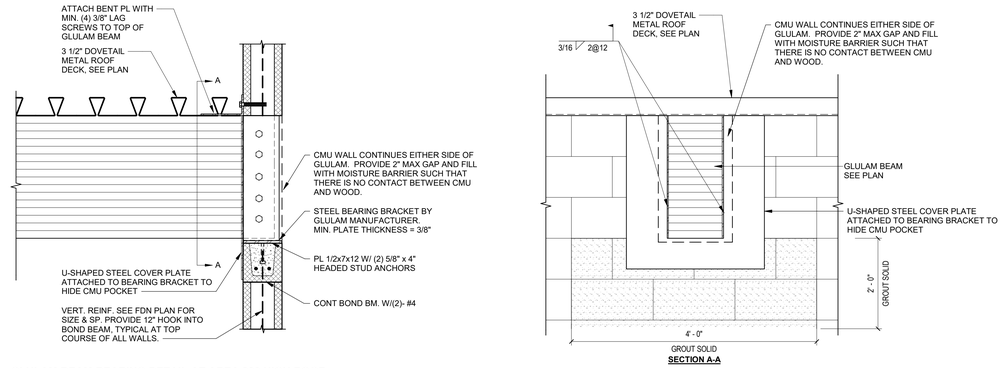


5 S-503 **DETAIL @ DINING GLULAM TRUSS**
SCALE: 1" = 1'-0"



7 S-503 **GLULAM BEAM BEARING DETAIL AT AREA 300 HIGH ROOF**
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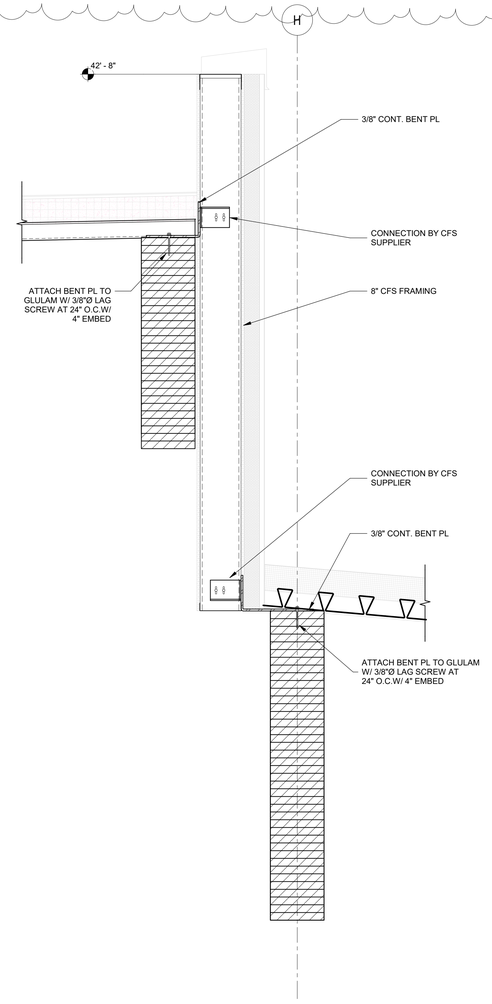
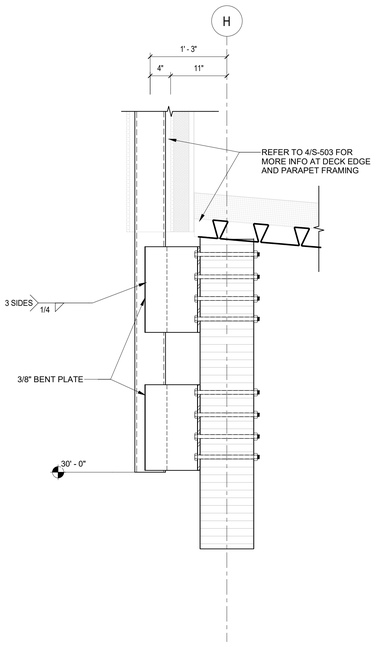


4 S-503 **SECTION AT GLULAM AND PARAPET**
SCALE: 1" = 1'-0"



3 S-503 **DETAIL AT SIDE-MOUNTED TRANSFER POST**
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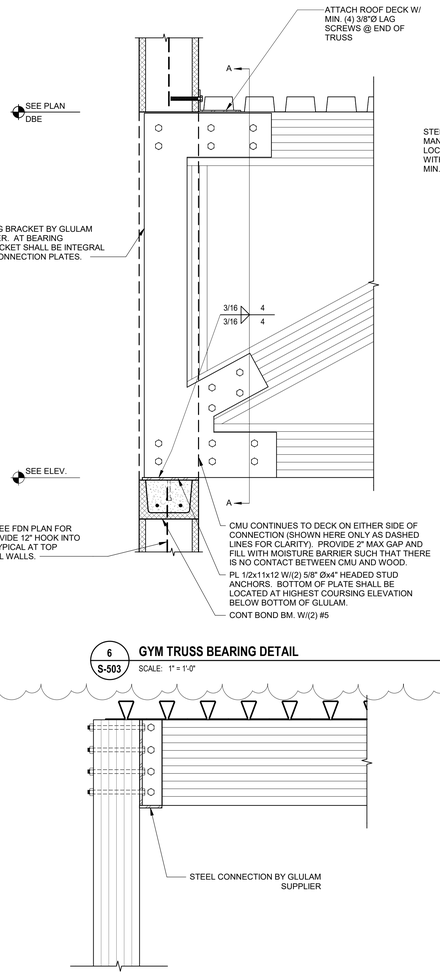

6 S-503 **GYM TRUSS BEARING DETAIL**
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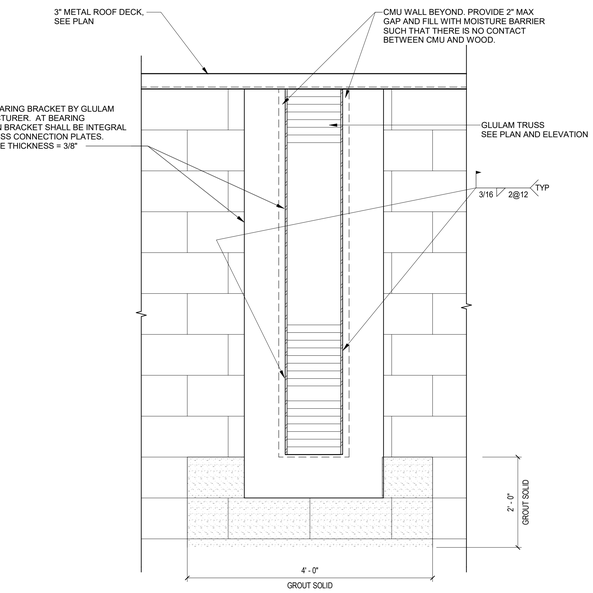

2 S-503 **TYPICAL GLULAM BEAM TO COLUMN CONNECTION**
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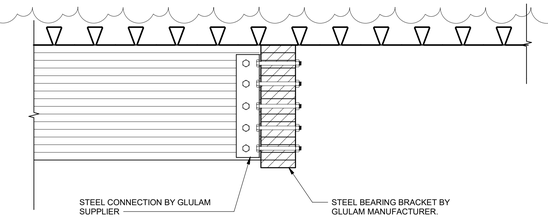

1 S-503 **TYPICAL GLULAM BEAM TO GIRDER CONNECTION**
SCALE: 1" = 1'-0"

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ENERGY STAR PARTNER

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ROOF FRAMING GLULAM DETAILS

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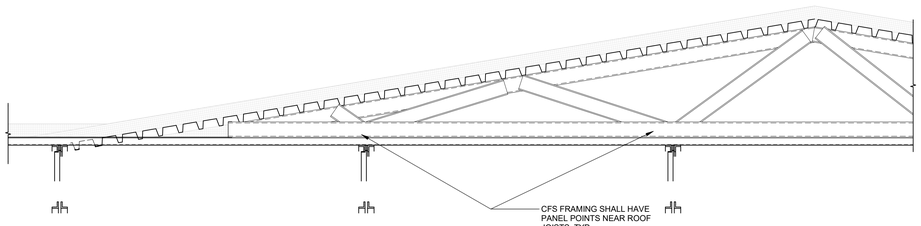
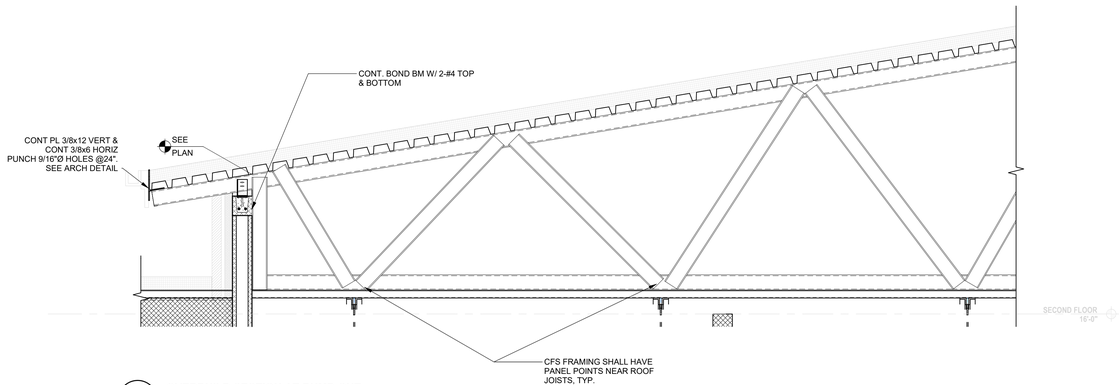
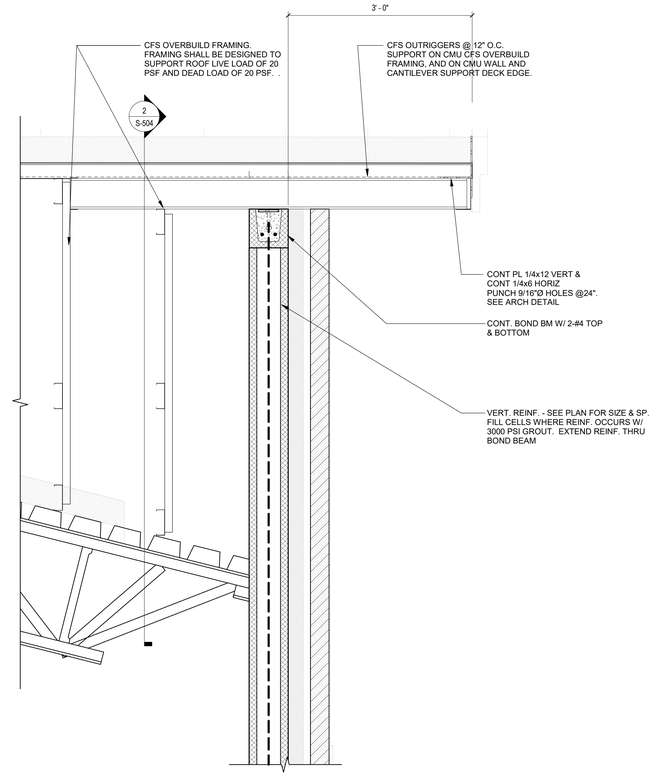


3 S-504 **TYPICAL OVERBUILD SECTION**
SCALE: 1/2" = 1'-0"



2 S-504 **OVERBUILD SECTION AT BUMP-OUT**
SCALE: 1/2" = 1'-0"



1 S-504 **TYPICAL OVERBUILD SECTION AT PERIMETER**
SCALE: 1" = 1'-0"

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ROOF CFS OVERBUILD DETAILS

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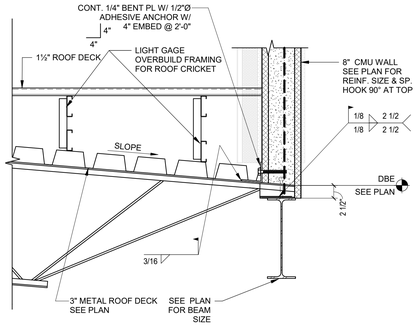

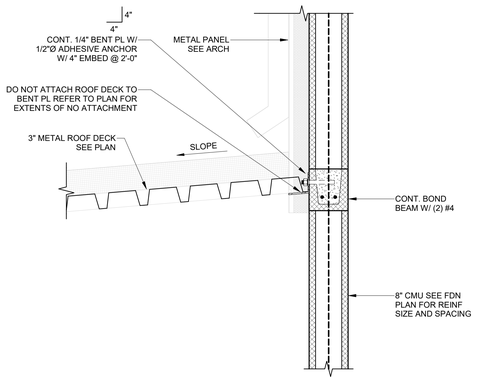

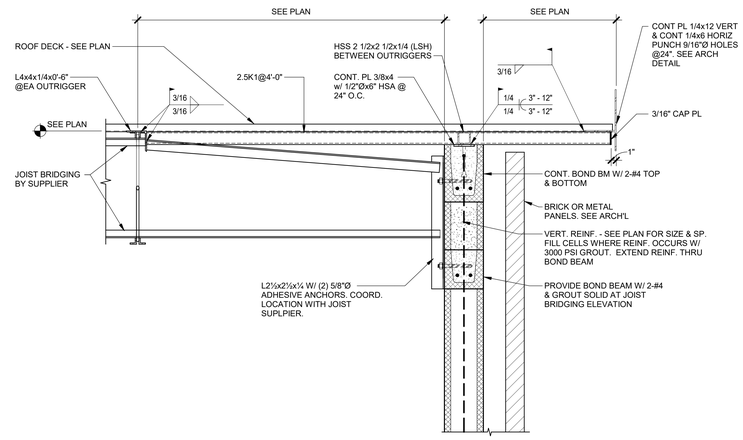

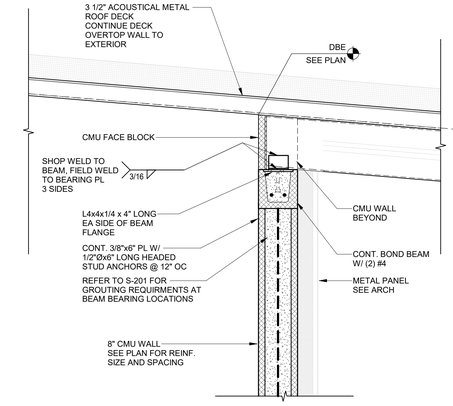

12 S-505 SECTION AT JOIST BEARING
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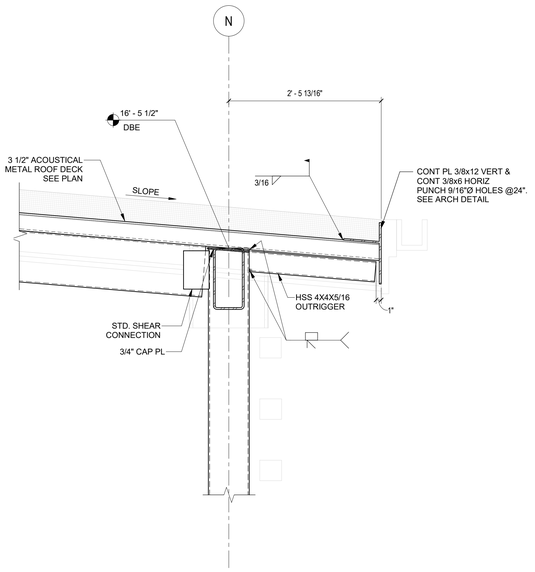

11 S-505 LOW ROOF DECK EDGE @ EXPANSION JOINT
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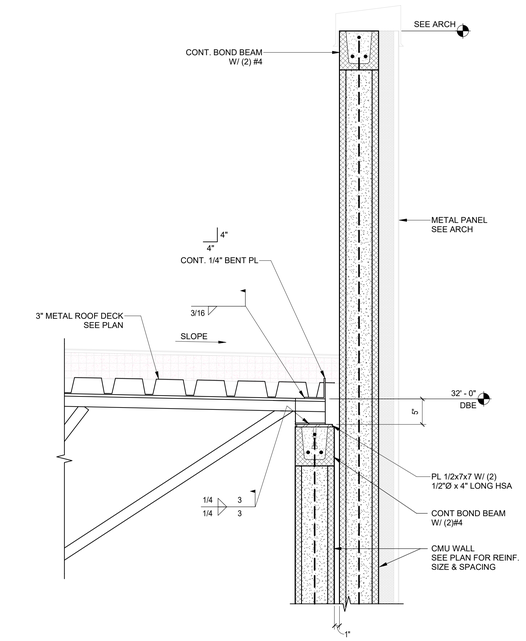

10 S-505 SECTION THRU ROOF
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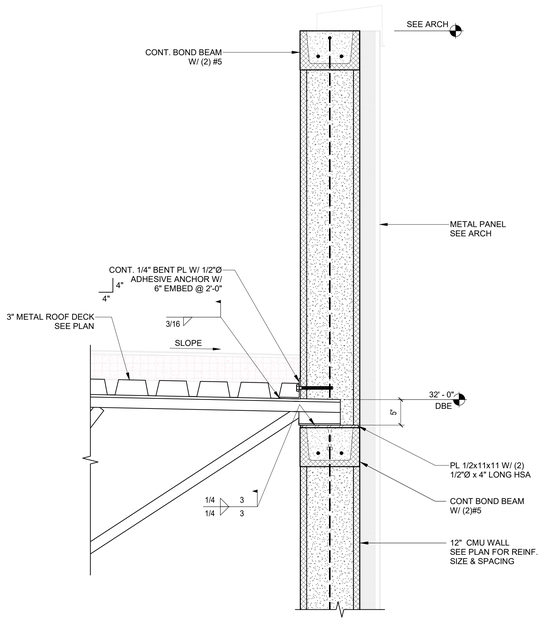

9 S-505 ROOF FRAMING DETAIL @ CAFETERIA
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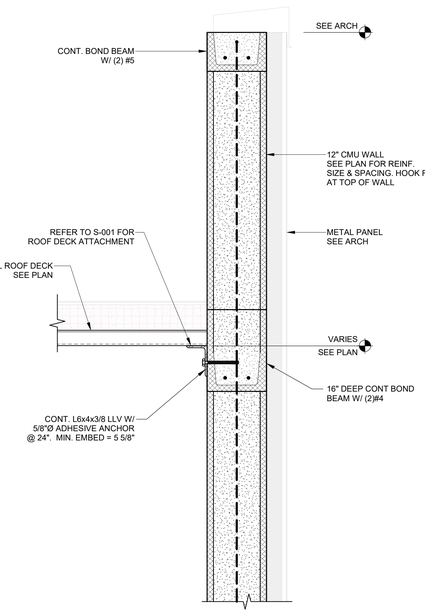
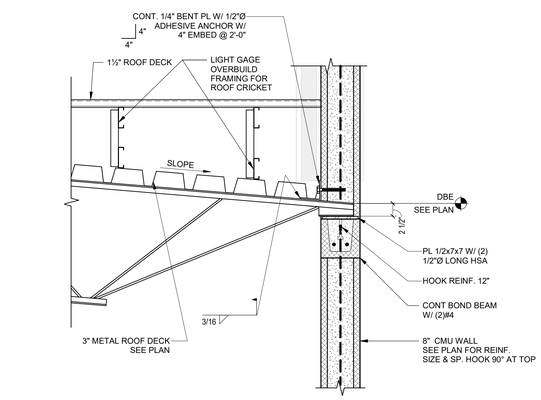


8 S-505 SECTION AT CANOPY
SCALE: 1" = 1'-0"



7 S-505 HIGH ROOF PARAPET AT RATED WALL
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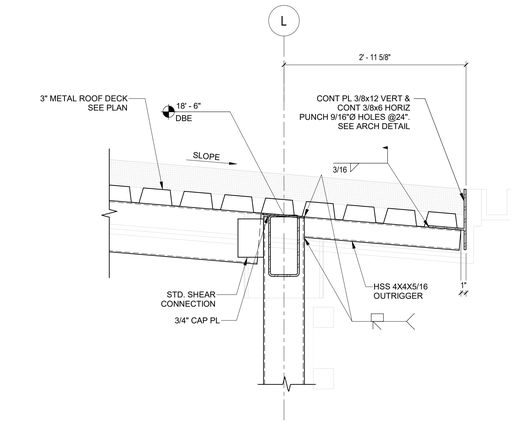

6 S-505 HIGH ROOF PARAPET AT JOIST BEARING
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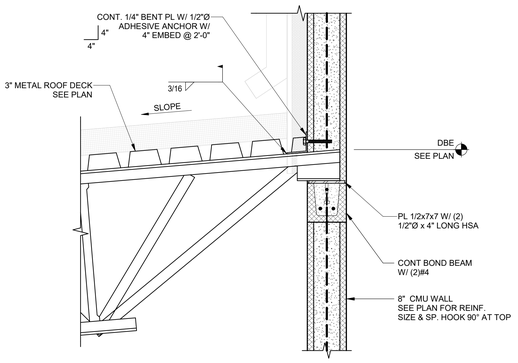

5 S-505 HIGH ROOF PARAPET SECTION
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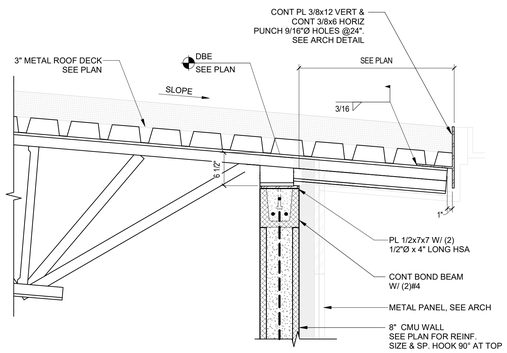

4 S-505 SECTION AT JOIST BEARING
SCALE: 1" = 1'-0"

3 S-505 SECTION AT CANOPY
SCALE: 1" = 1'-0"

2 S-505 SECTION AT JOIST BEARING
SCALE: 1" = 1'-0"

1 S-505 SECTION AT EAVE
SCALE: 1" = 1'-0"

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ROOF FRAMING DETAILS

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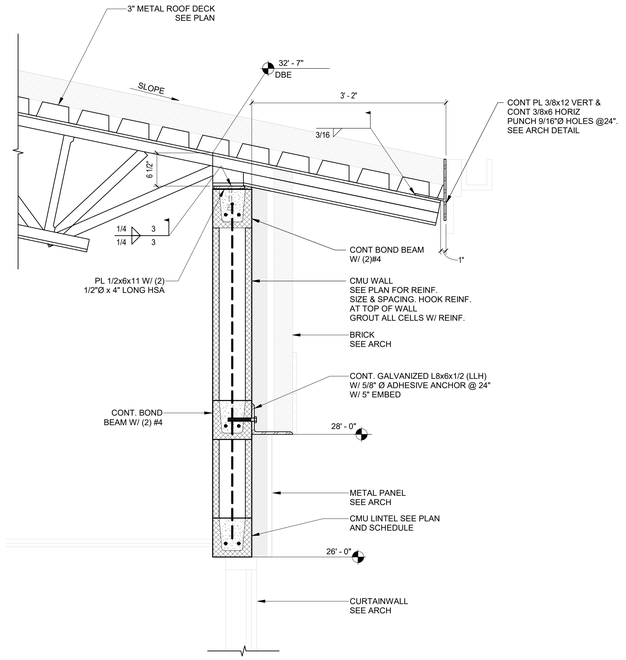
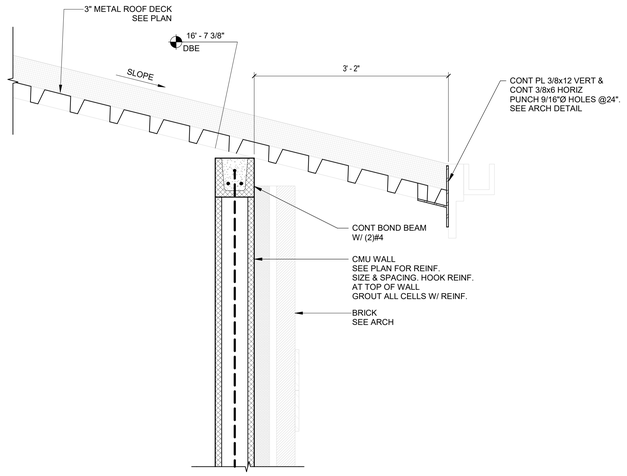


6 S-506 **AREA 600 ROOF SECTION**
SCALE: 1" = 1'-0"



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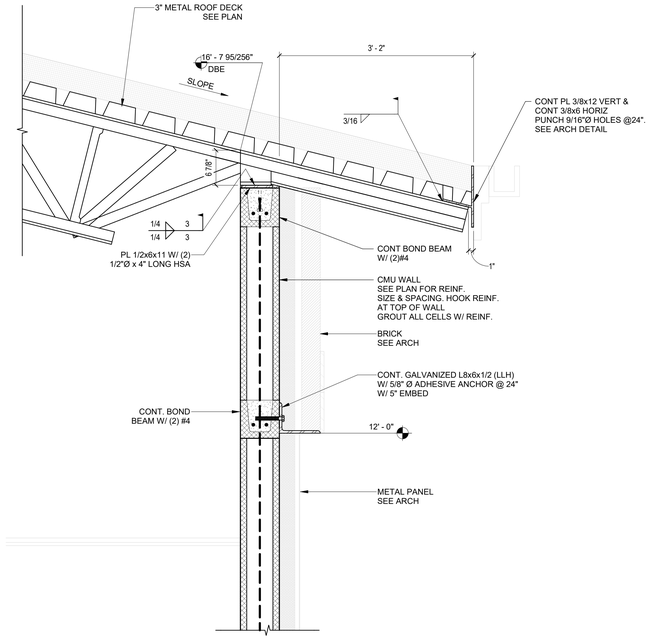

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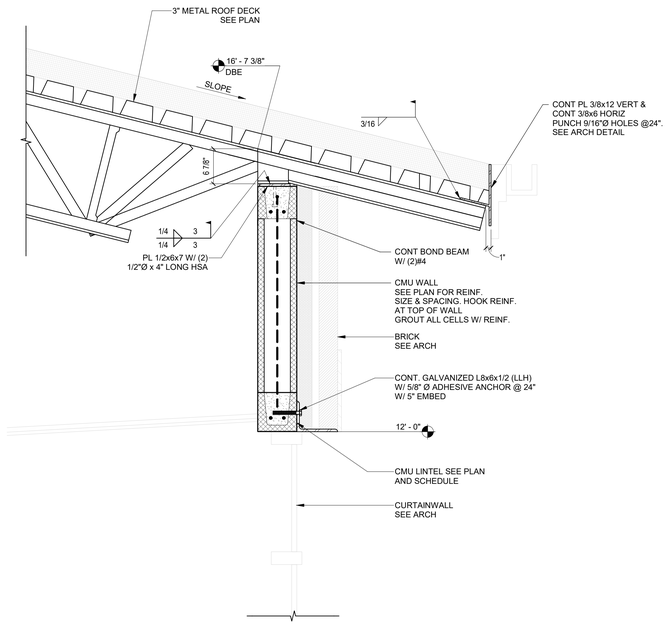

3 S-506 **AREA 400 ROOF SECTION**
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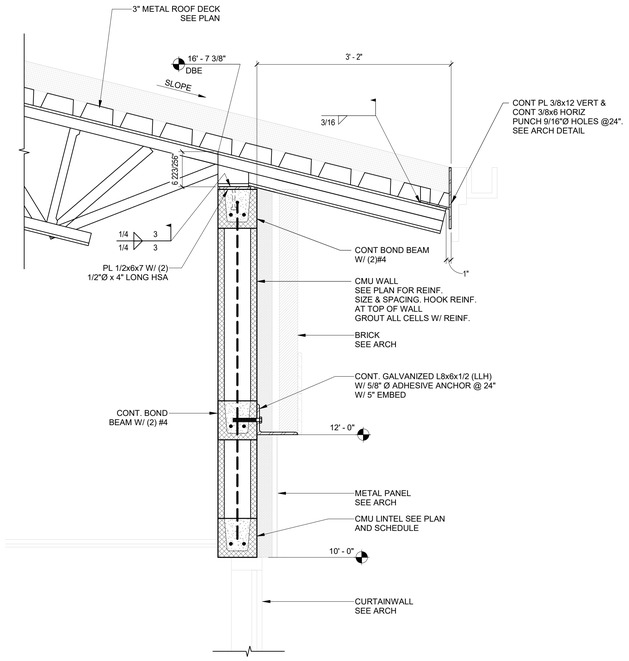

2 S-506 **AREA 400 ROOF SECTION**
SCALE: 1" = 1'-0"

1 S-506 **ROOF SECTION**
SCALE: 1" = 1'-0"

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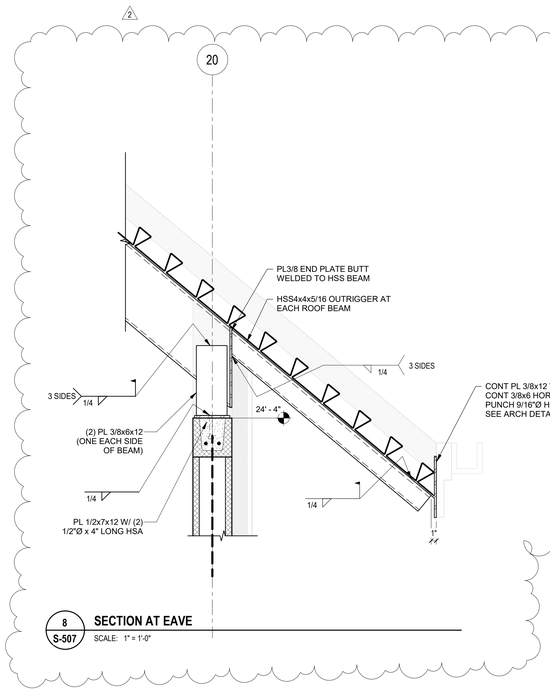
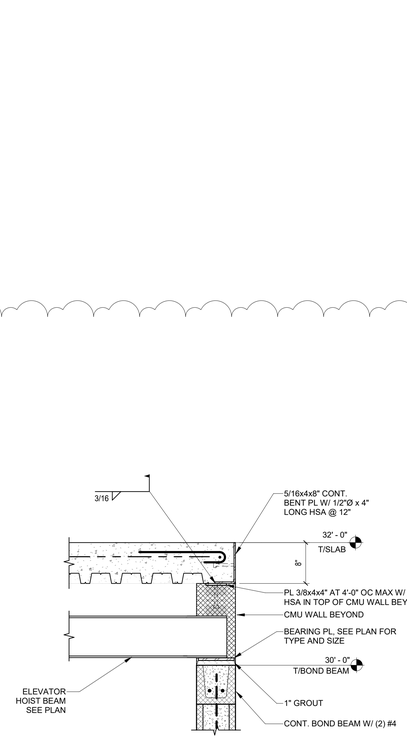


8 / S-507 SECTION AT EAVE
SCALE: 1" = 1'-0"



7 / S-507 SECTION @ ELEVATOR HOIST BEAM
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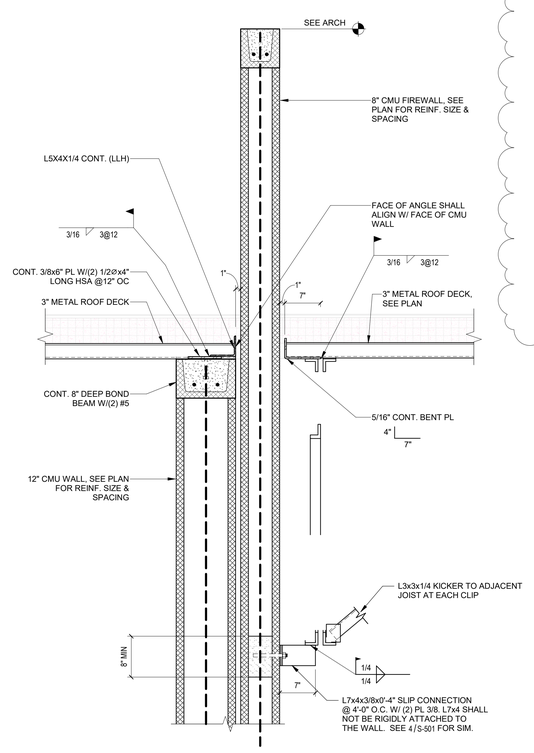

6 / S-507 FIREWALL DETAIL
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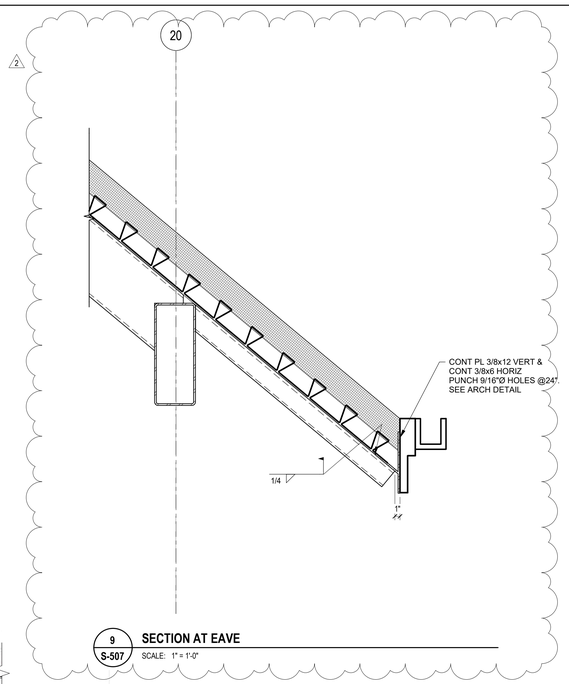

9 / S-507 SECTION AT EAVE
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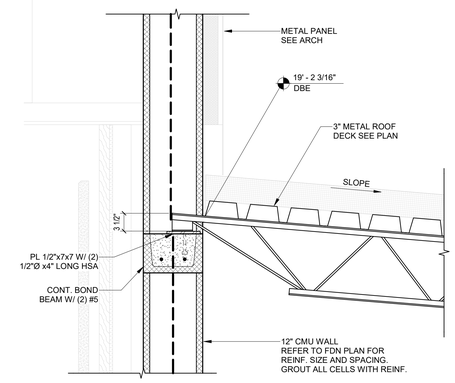

5 / S-507 LOW ROOF SECTION
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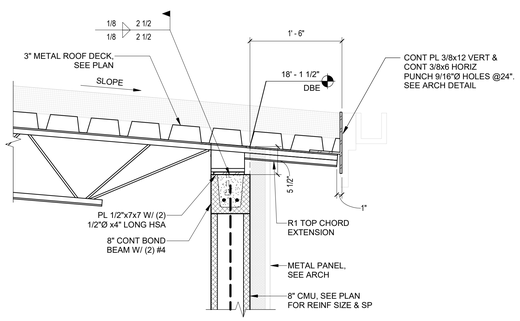

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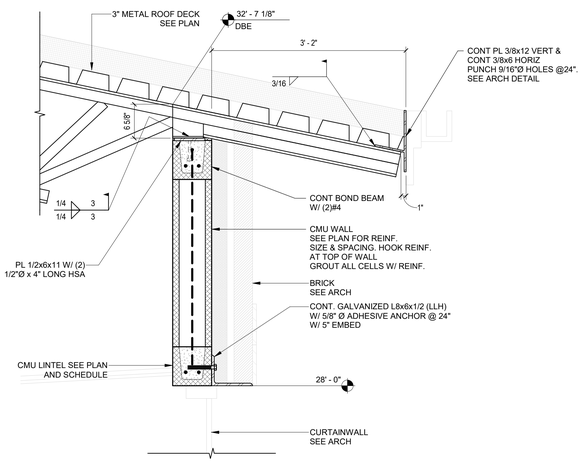
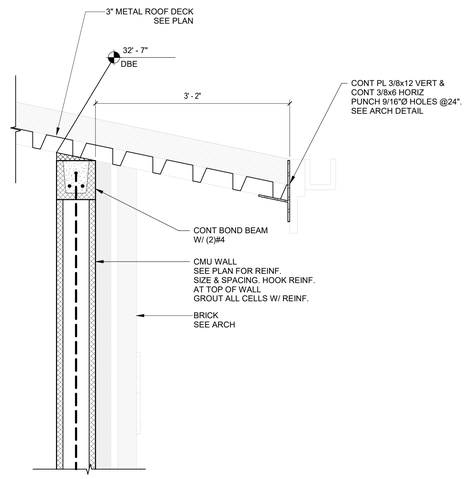
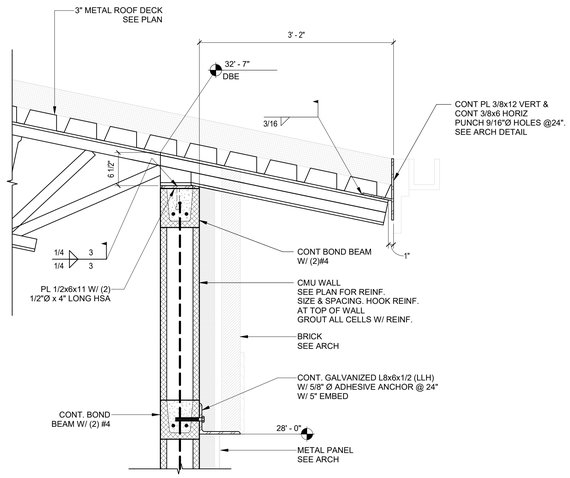


3 / S-507 AREA 600 ROOF SECTION
SCALE: 1" = 1'-0"



2 / S-507 AREA 600 ROOF SECTION
SCALE: 1" = 1'-0"



1 / S-507 AREA 600 ROOF SECTION
SCALE: 1" = 1'-0"

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CONSTRUCTION DOCUMENTS

HARNETT COUNTY SCHOOLS

FLATWOODS MIDDLE SCHOOL

JOEL JOHNSON ROAD/US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description
2	12-13-24	CD REVISIONS

ISSUE DATE: 11/08/2024
PROJECT #: 2208
DRAWN BY: MM
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ROOF FRAMING DETAILS

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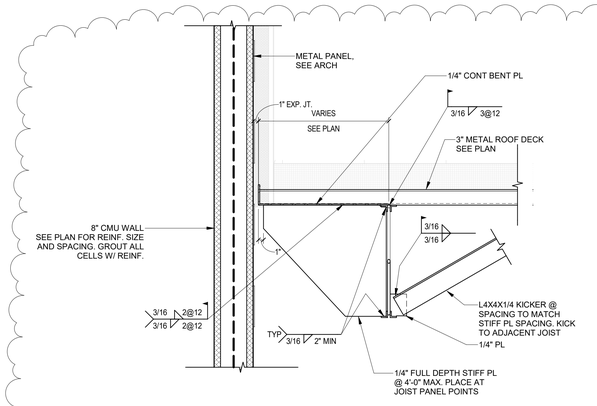

9 S-508 **DETAIL AT EXPANSION JOINT**
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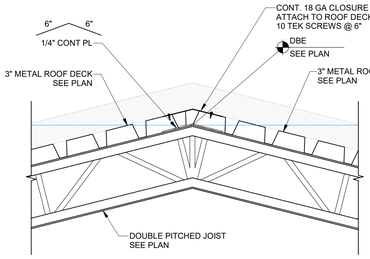

10 S-508 **ROOF RIDGE DETAIL**
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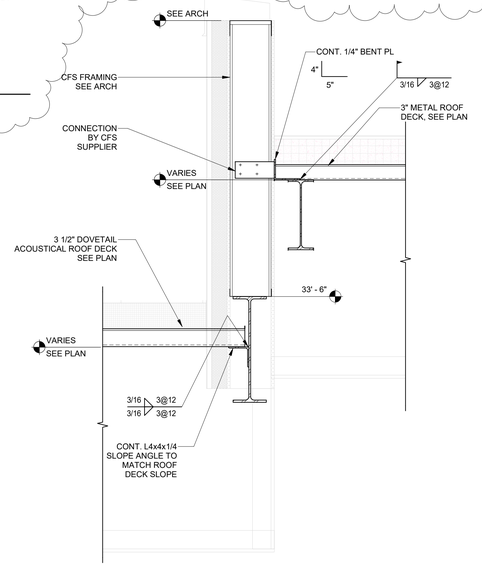
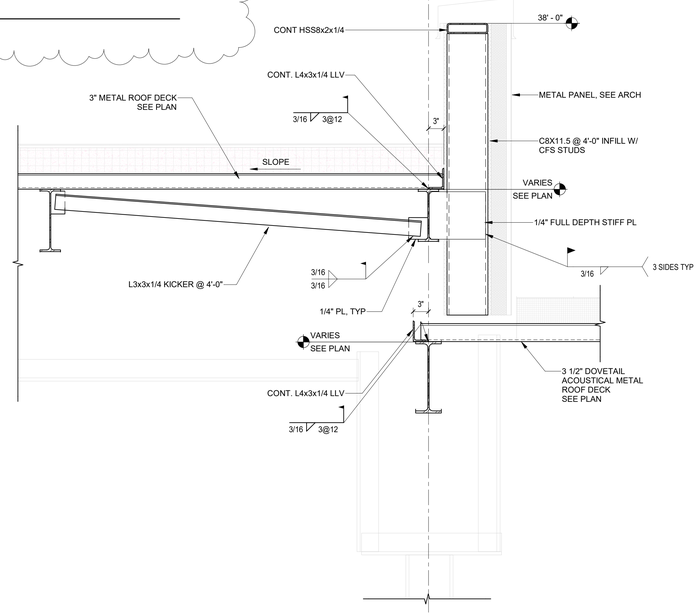
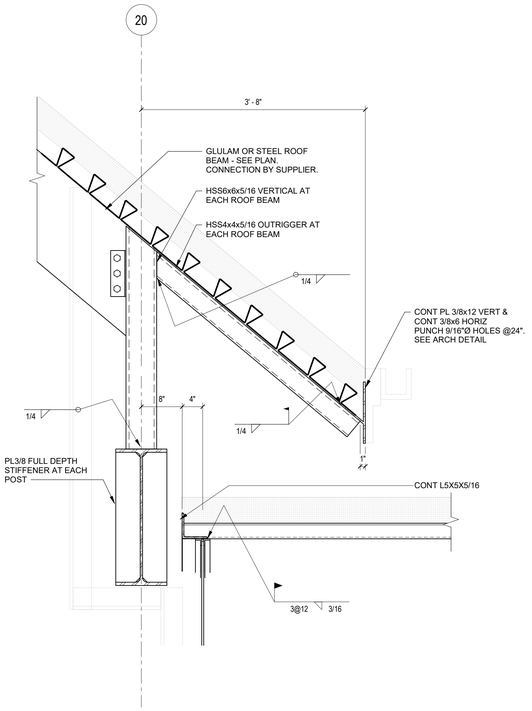
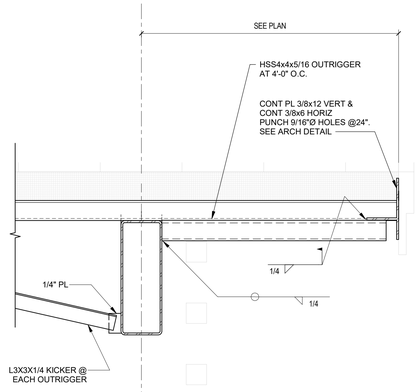






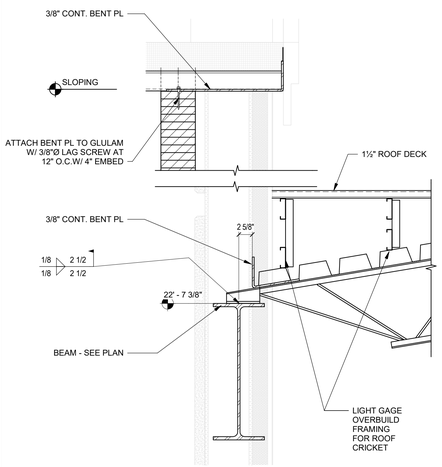


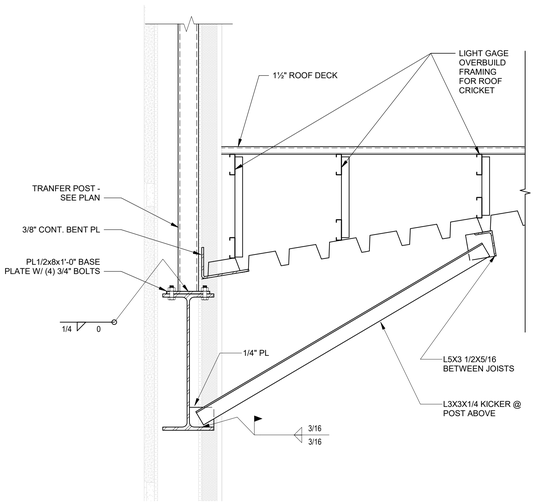
8 S-508 **SECTION AT ROOF EDGE**
SCALE: 1" = 1'-0"

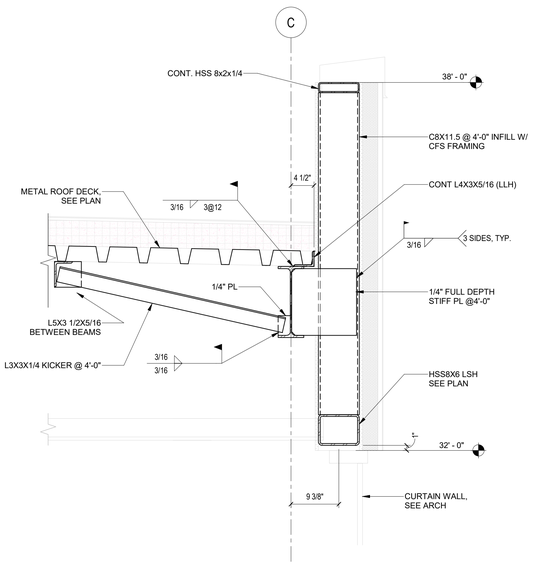
7 S-508 **SECTION THRU ROOF**
SCALE: 1" = 1'-0"

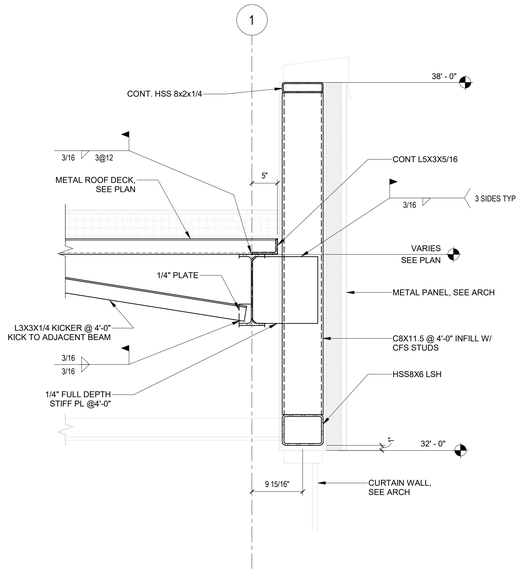
6 S-508 **SECTION THRU ROOF**
SCALE: 1" = 1'-0"

5 S-508 **SECTION AT EAVE**
SCALE: 1" = 1'-0"









4 S-508 **SECTION AT RAKE AND LOW ROOF**
SCALE: 1" = 1'-0"

3 S-508 **SECTION AT POST SUPPORT**
SCALE: 1" = 1'-0"

2 S-508 **SECTION**
SCALE: 1" = 1'-0"

1 S-508 **SECTION**
SCALE: 1" = 1'-0"

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ROOF FRAMING DETAILS

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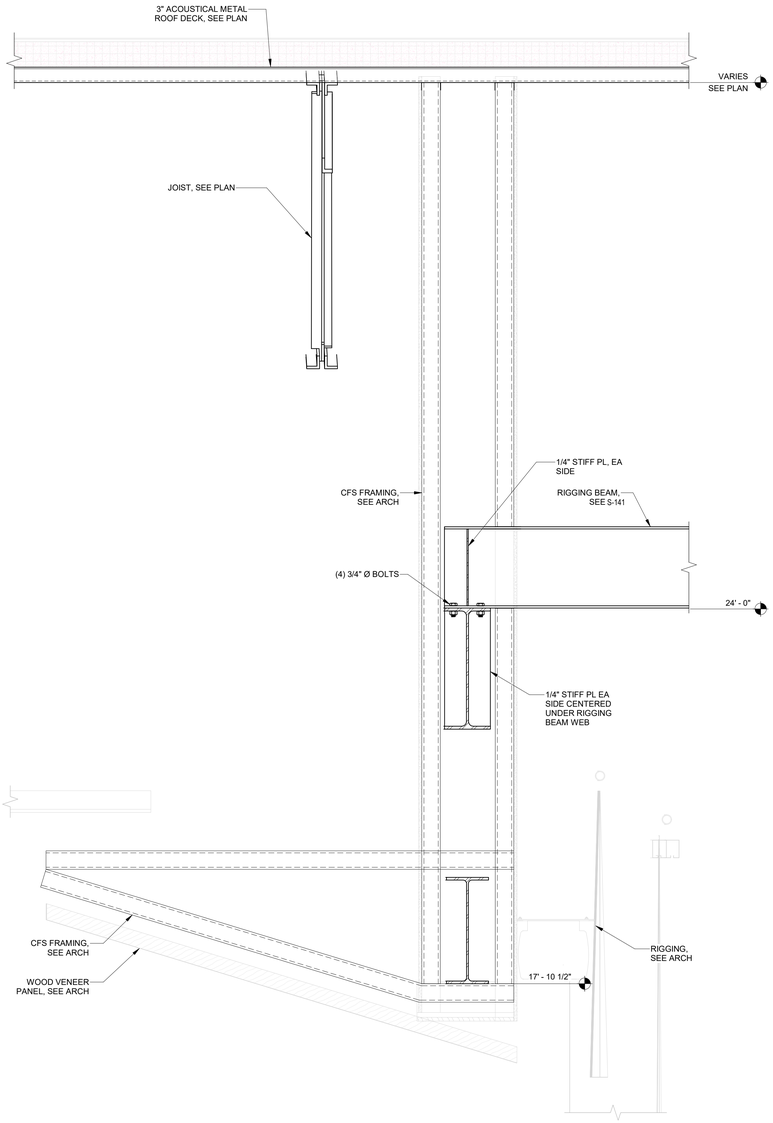

2 S-509 PROSCENIUM FRAMING SECTION
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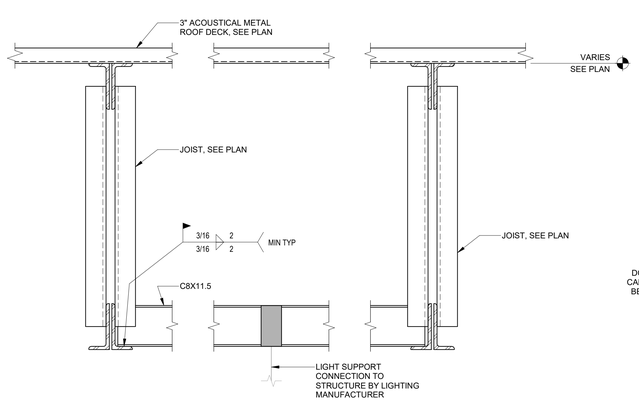

4 S-509 LIGHTING CHANNEL SUPPORT DETAIL
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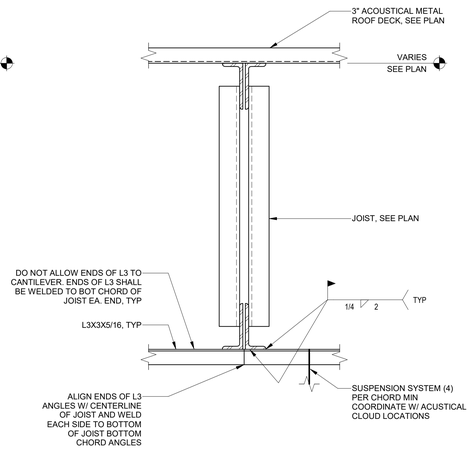

3 S-509 TYPICAL ACOUSTICAL CLOUD SUPPORT DETAIL
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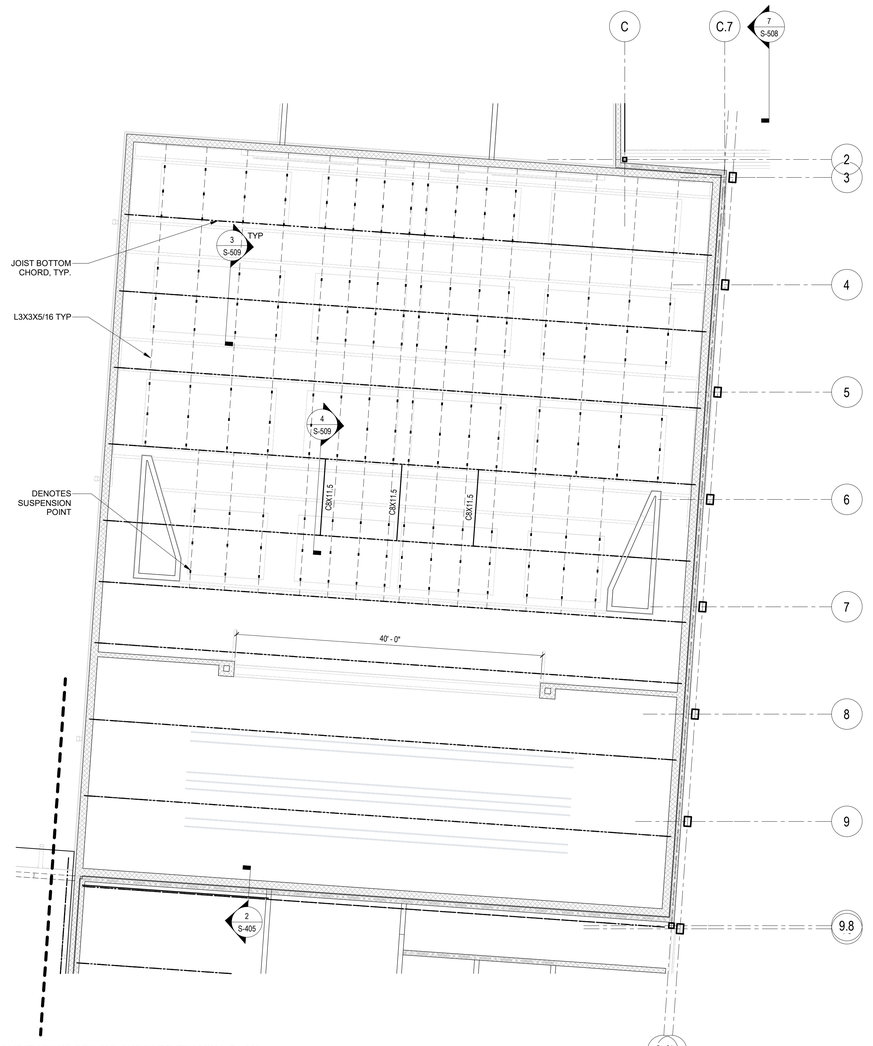

1 S-509 AUDITORIUM CEILING SUPPORT FRAMING PLAN
SCALE: 1/8" = 1'-0"

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AUDITORIUM FRAMING DETAILS

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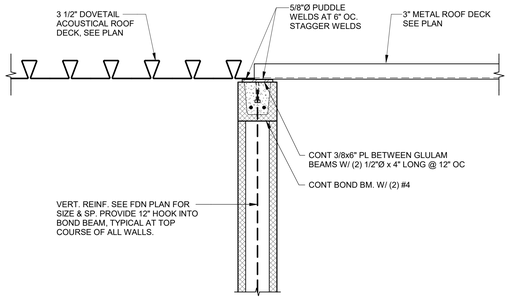

10 S-510 **ROOF DETAIL**
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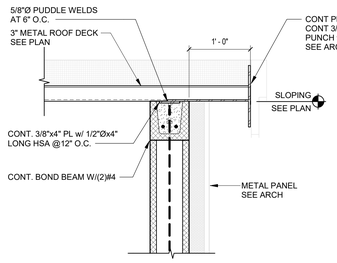

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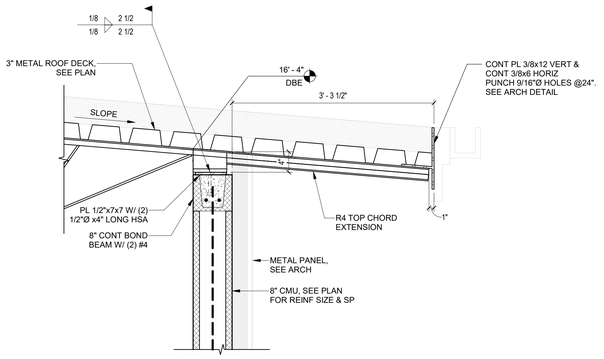

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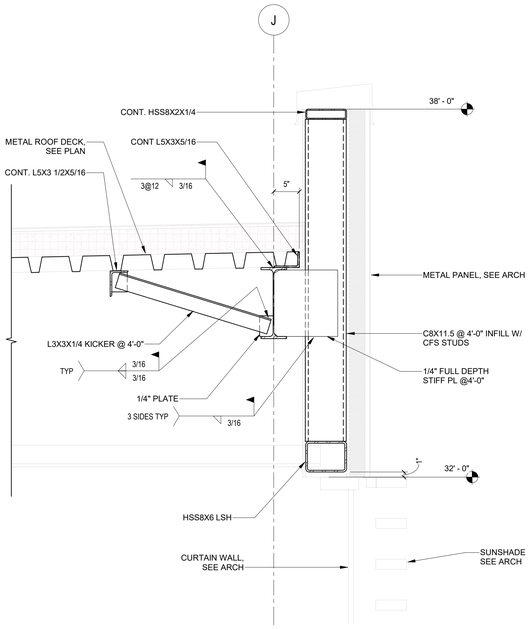

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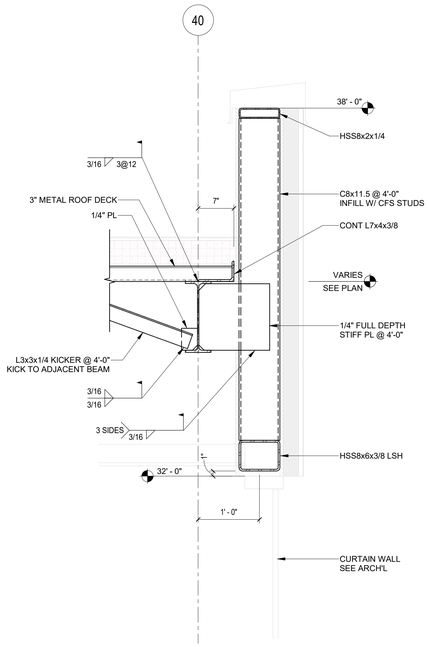

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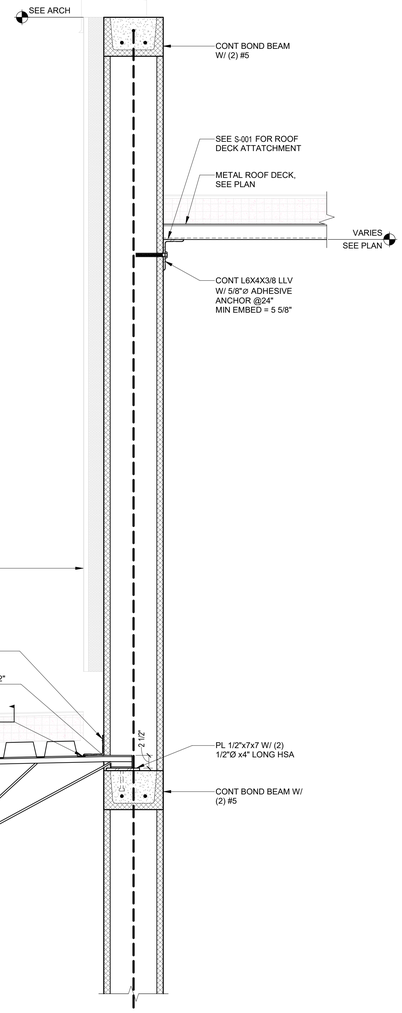

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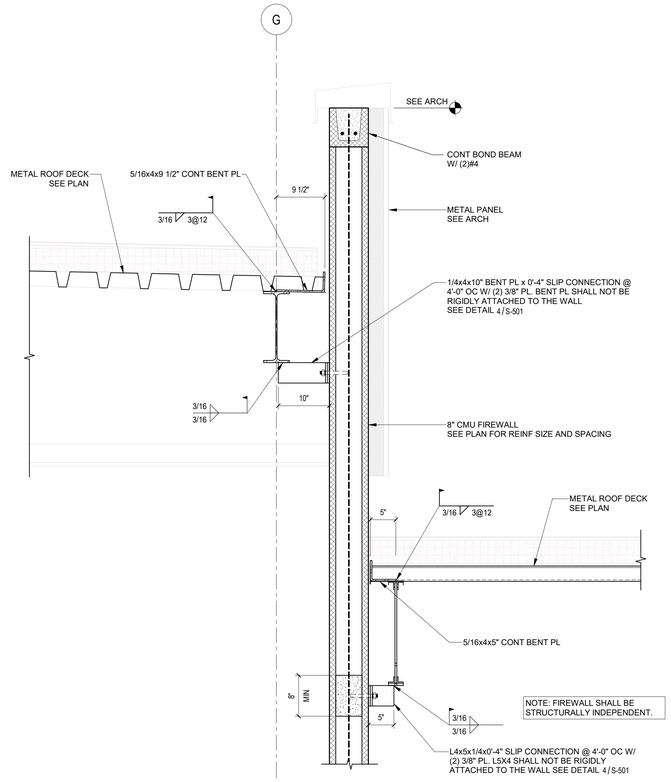

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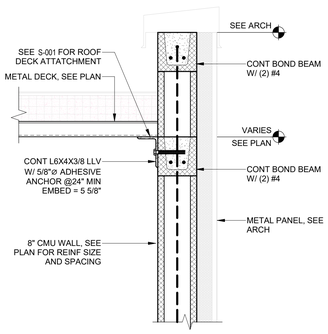

4 S-510 **ROOF SECTION**
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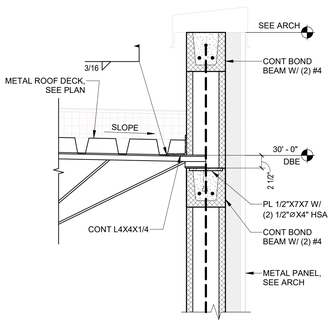

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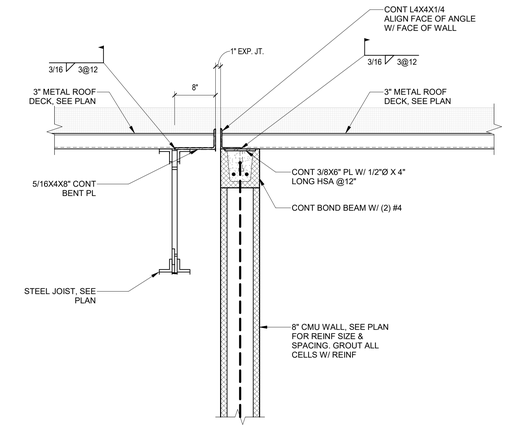

1 S-510 **DETAIL AT EXPANSION JOINT**
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ROOF FRAMING DETAILS

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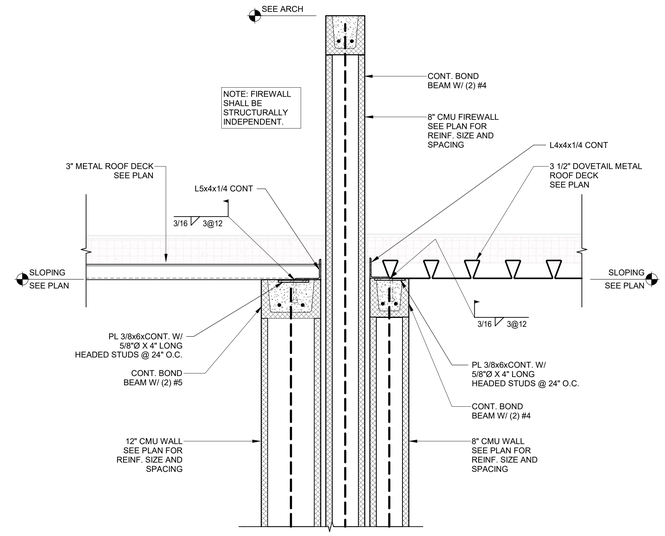

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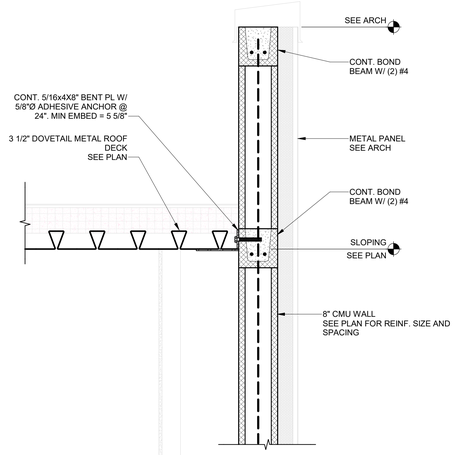

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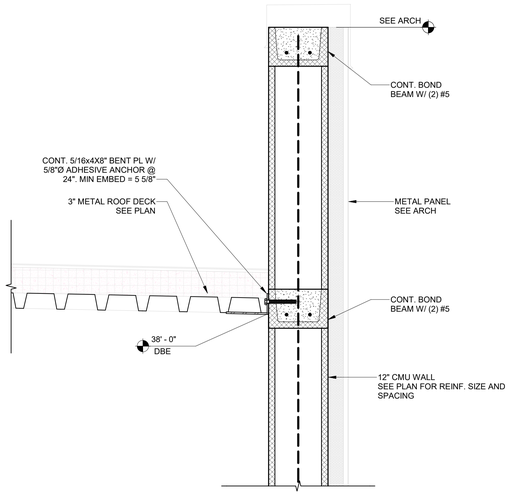

2 S-511 **GYM ROOF DETAIL**
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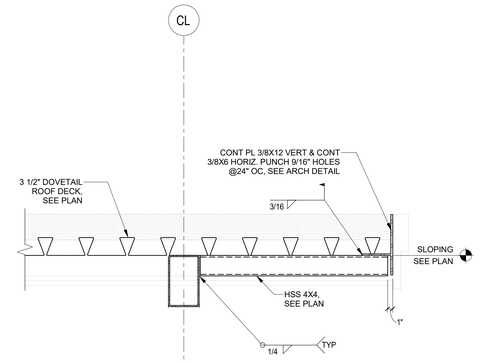

1 S-511 **ROOF DETAIL**
SCALE: 1" = 1'-0"

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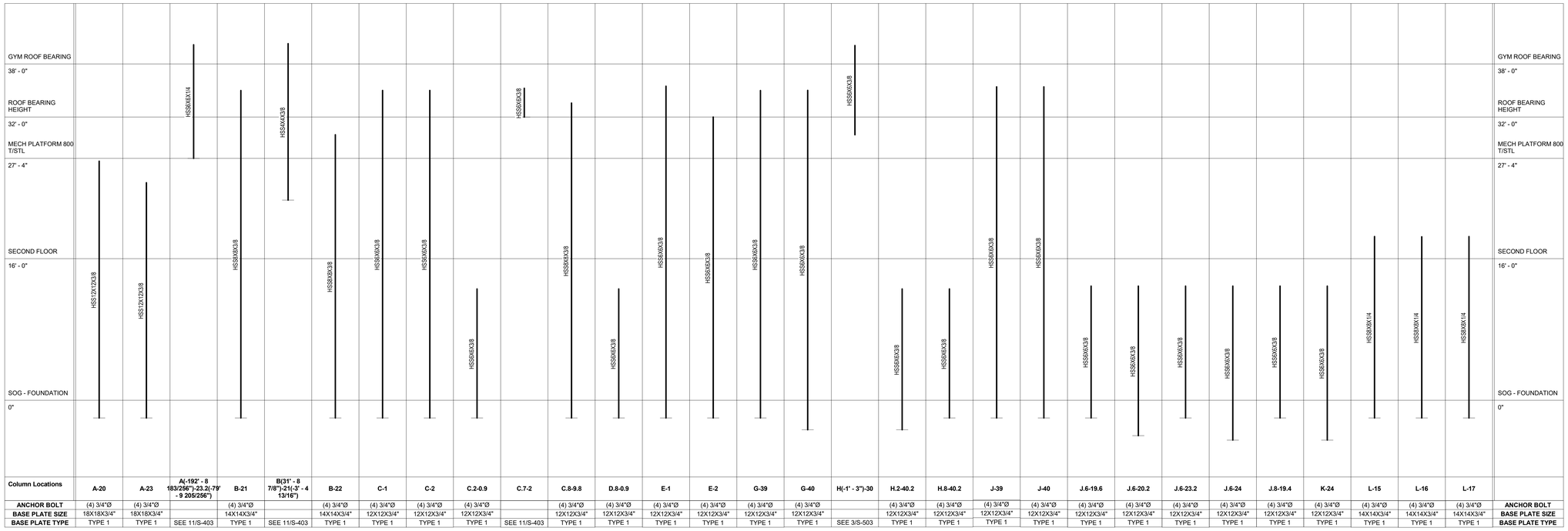

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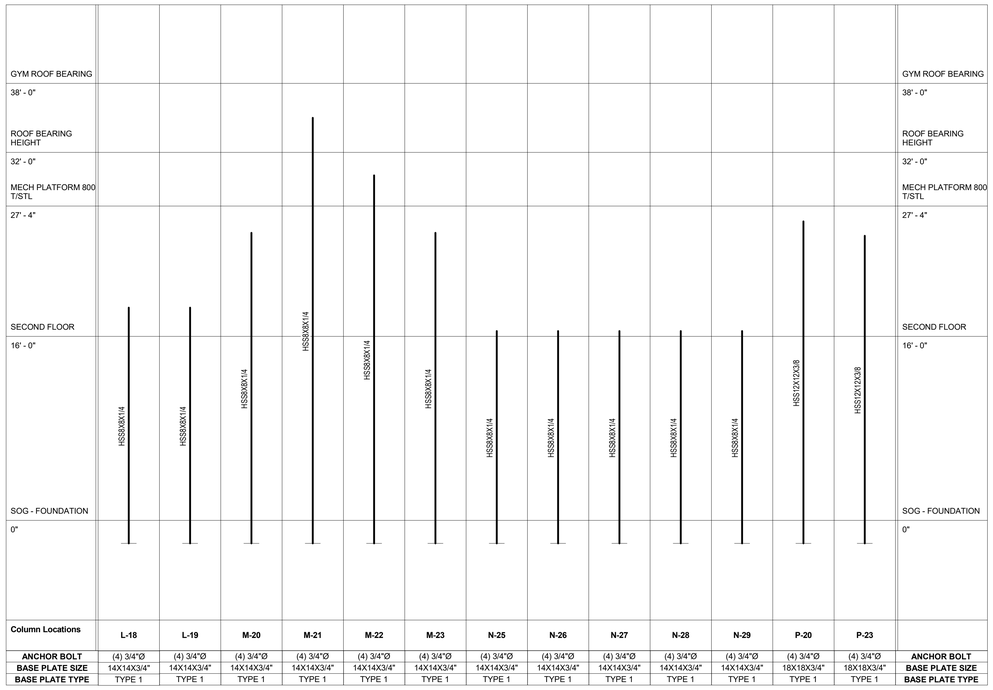
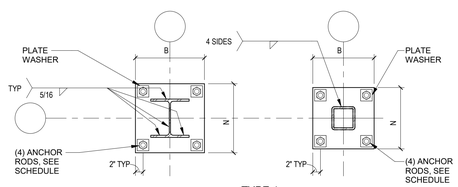
ANCHOR BOLT	(4) 3/4"Ø	(4) 3/4"Ø		(4) 3/4"Ø		(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø		(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø		(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	**ANCHOR BOLT**
BASE PLATE SIZE	18X18X3/4"	18X18X3/4"		14X14X3/4"		14X14X3/4"	12X12X3/4"	12X12X3/4"	12X12X3/4"		12X12X3/4"	12X12X3/4"	12X12X3/4"	12X12X3/4"	12X12X3/4"	12X12X3/4"		12X12X3/4"	12X12X3/4"	12X12X3/4"	12X12X3/4"	12X12X3/4"	12X12X3/4"	12X12X3/4"	12X12X3/4"	12X12X3/4"	14X14X3/4"	14X14X3/4"	14X14X3/4"	**BASE PLATE SIZE**
BASE PLATE TYPE	TYPE 1	TYPE 1	SEE 11/S-403	TYPE 1	SEE 11/S-403	TYPE 1	TYPE 1	TYPE 1	TYPE 1	SEE 11/S-403	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	SEE 3/S-503	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	**BASE PLATE TYPE**

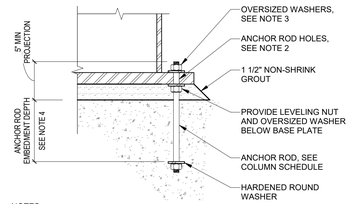


Column Locations	L-18	L-19	M-20	M-21	M-22	M-23	N-25	N-26	N-27	N-28	N-29	P-20	P-23	
ANCHOR BOLT	(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	(4) 3/4"Ø	**ANCHOR BOLT**
BASE PLATE SIZE	14X14X3/4"	14X14X3/4"	14X14X3/4"	14X14X3/4"	14X14X3/4"	14X14X3/4"	14X14X3/4"	14X14X3/4"	14X14X3/4"	14X14X3/4"	14X14X3/4"	18X18X3/4"	18X18X3/4"	**BASE PLATE SIZE**
BASE PLATE TYPE	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	**BASE PLATE TYPE**



TYPE 1

2 S-600 **DETAIL AT BASE PLATE TYPES**
SCALE: 3/4" = 1'-0"
BP REF [FND-1.21]



NOTES:
1. ANCHOR ROD MATERIAL : ASTM F1554, GRADE 36, UNO
2. PROVIDE ANCHOR ROD HOLES CONFORMING TO TABLE 14-2 (AISC STEEL CONSTRUCTION MANUAL.)
3. PROVIDE WASHERS CONFORMING TO TABLE 14-2 (AISC STEEL CONSTRUCTION MANUAL.)
4. MINIMUM EMBEDMENT LENGTH FOR ASTM F1554, GRADE 36 ANCHOR RODS:
   - 3/4" DIA = 8"
   - 1" DIA = 12"

1 S-600 **DETAIL AT ANCHOR ROD ASSEMBLY**
SCALE: 1 1/2" = 1'-0"
BP REF [FND-2.09]

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Raleigh, North Carolina 27607
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NORTH CAROLINA PROFESSIONAL 037412 ENGINEER TIMOTHY K. HILTON
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HARNETT COUNTY SCHOOLS

FLATWOODS MIDDLE SCHOOL

JOEL JOHNSON ROAD/US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

ISSUE DATE: 11/08/2024

PROJECT #: 2208
DRAWN BY: MM
CHECKED BY: TH

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STEEL COLUMN SCHEDULE AND DETAILS

S-600

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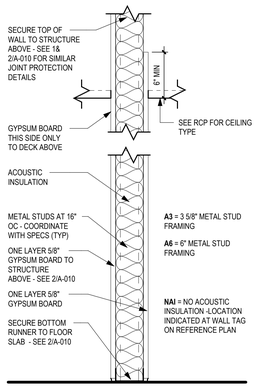
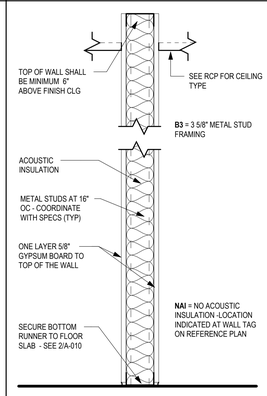
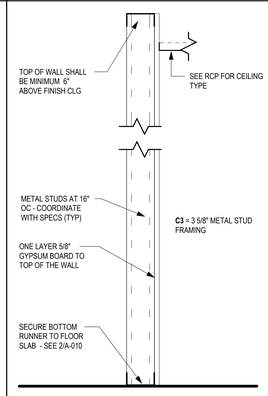
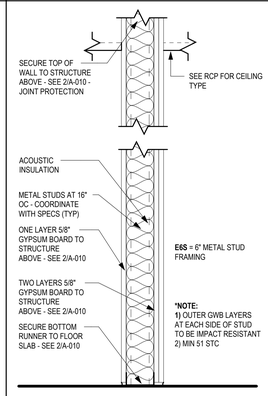
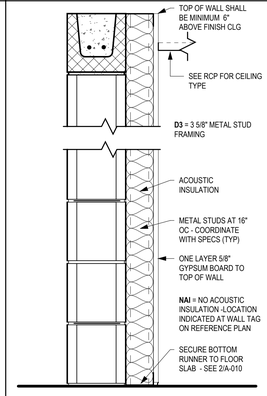
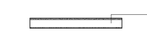
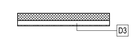
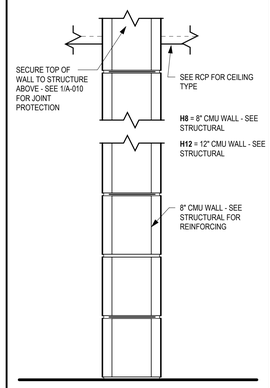
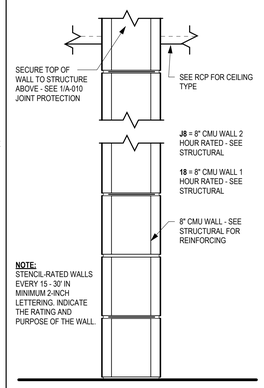
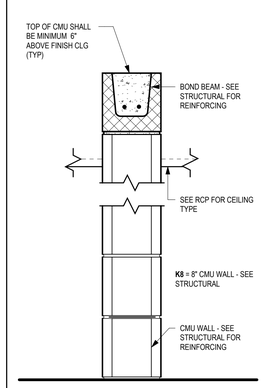
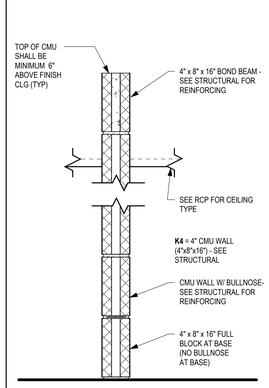
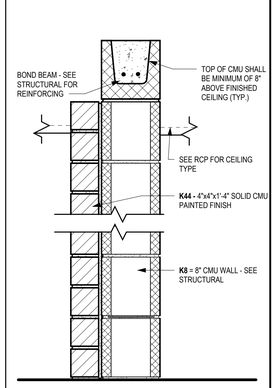
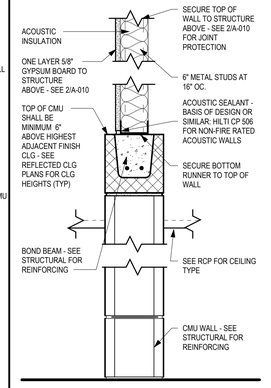
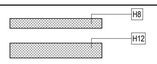
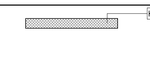
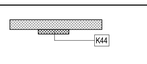
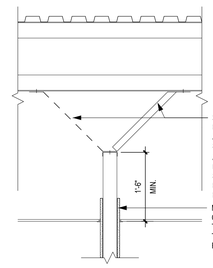
PARTITION TYPE LEGEND METAL STUD WALLS

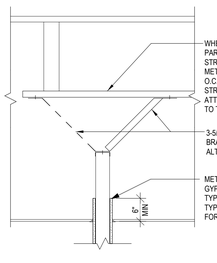
WALL TYPE MARKER	A3 A6	B3	C3	E6S	D3	
SECTION 1 1/2" = 1' - 0"						
PLAN 1/4" = 1' - 0"						
DESCRIPTION	METAL STUD NONRATED WALL	METAL STUD NONRATED WALL	METAL STUD NONRATED WALL	METAL STUD NONRATED ACOUSTIC WALL. ALL DOORS IN THIS WALL TYPE SHALL BE FIT WITH ACOUSTIC SEALS.	METAL STUD NONRATED WALL ADJACENT TO CMU WALL	
UL DESIGN #						

PARTITION TYPE LEGEND CONCRETE MASONRY UNIT WALLS

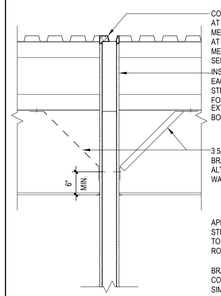
WALL TYPE MARKER	H8 H12	I8 J8	K8	K4	K44	M8
SECTION 1 1/2" = 1' - 0"						
PLAN 1/4" = 1' - 0"						
DESCRIPTION	CONCRETE MASONRY UNIT NONRATED BEARING WALL RAN TO BEARING POINT OR ROOF/FLOOR DECKING	CONCRETE MASONRY UNIT BEARING WALL **2 HOUR FIRE RATED** UP TO UNDERSIDE OF DECKING ABOVE (USED FOR 1 HOUR FIRE RATED MANSORY WALLS AS WELL)	CONCRETE MASONRY UNIT NONRATED PARTITION WALL TERMINATES AT 6" MIN ABOVE FINISH CEILING.	CONCRETE MASONRY UNIT NONRATED PARTITION WALL TERMINATES ABOVE CEILING AT 6" ABOVE FINISH CEILING - TYP (USED FOR SINK WALLS AT TOILETS UNO)	8" & 4" CONC MASONRY MASONRY UNIT NONRATED WALL TERM AT 6" ABOVE FINISH CLG WITH 8" CONCRETE MASONRY UNIT TO STRUCTURE TYP AT CORRIDOR PILASTERS	CONCRETE MASONRY UNIT NONRATED PARTITION WALL TERMINATES AT 6" ABOVE FINISH CEILING WITH METAL STUD NONRATED WALL TO STRUCTURE
UL DESIGN #		UL DESIGN **#U905**				



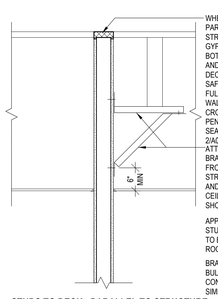
STUDS TO CEILING - PERPENDICULAR TO STRUCTURE



STUDS TO CEILING - PARALLEL TO STRUCTURE

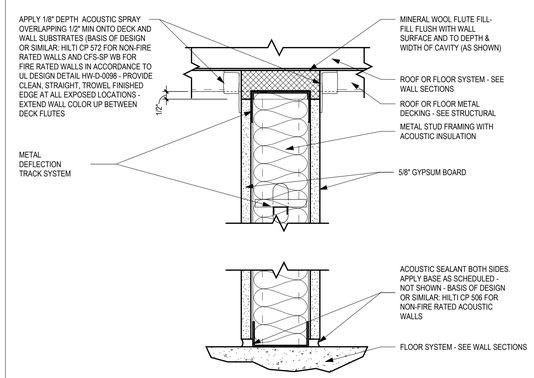


STUDS TO DECK - PERPENDICULAR TO STRUCTURE
PARALLEL TO DECK FLUTES
FULL-HEIGHT GWB

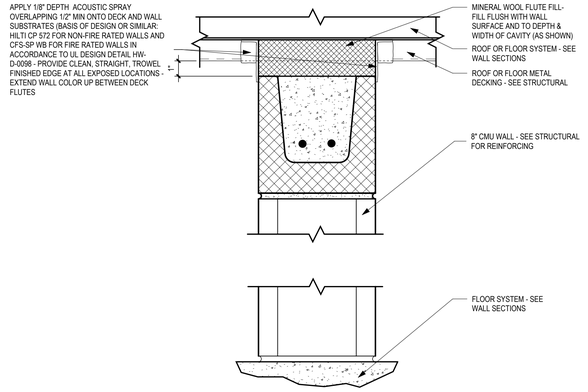


STUDS TO DECK - PARALLEL TO STRUCTURE
PERPENDICULAR TO DECK FLUTES
FULL-HEIGHT GWB

1 A-010 **METAL STUD PARTITION BRACING**
SCALE: 3/4" = 1'-0"



2 A-010 **JOINT PROTECTION DETAIL - METAL STUD WALLS**
SCALE: 3" = 1'-0"



3 A-010 **JOINT PROTECTION DETAIL - CMU WALLS**
SCALE: 3" = 1'-0"

PARTITION TYPES GENERAL NOTES:

1. USE MOISTURE RESISTANT GYPSUM BOARD AT ALL WALLS IN TOILET ROOMS, LOCKER ROOMS AND UTILITY ROOMS IF UTILIZED IN THOSE ROOMS.

2. AT WALL TILE, INSTALL WALL TILES OVER CEMENT BOARD IN ACCORDANCE WITH THE TCNA HANDBOOK METHOD.

3. "UNDERSIDE OF STRUCTURE" INDICATED AT HEAD CONDITION FOR EACH PARTITION TYPE IS DIAGRAMMATIC ONLY, AND DOES NOT INDICATE EXACT CONSTRUCTION CONDITIONS.

4. INSTALL FRAMING AND GYPSUM WALL BOARD TO OFFSET AROUND STRUCTURAL MEMBERS OR OTHER OBSTRUCTIONS TO MAINTAIN FIRE RESISTIVE RATINGS.

5. WHERE GYPSUM WALL BOARD EXTENDS TO THE UNDERSIDE OF STRUCTURE, STOP GYPSUM WALL BOARD 1/2" BELOW LINE OF STRUCTURE AND SEAL AS REQUIRED. DO NOT HANG METAL STUDS FROM METAL DECK.

7. FIRE RESISTANT, RATED PARTITIONS TO BE INSTALLED WITH FIRESTOP SEALANT, UNLESS NOTED OTHERWISE.

8. NON-RATED PARTITIONS TO BE INSTALLED WITH ACOUSTICAL SEALANT, UNLESS NOTED OTHERWISE.

9. REFER TO MECHANICAL DRAWINGS FOR PIPE PENETRATIONS THROUGH ACOUSTICAL PARTITIONS AS WELL AS RATED PARTITIONS. MAINTAIN STC AND FIRE RATING OF ALL PARTITIONS

10. INSTALL BLOCKING IN PARTITIONS FOR ACCESSORIES, CASEWORK, HANDRAILS, FIXTURES AND AS REQUIRED ON DRAWINGS.

11. PER MOLD PREVENTION GUIDELINES, DO NOT INSTALL GYPSUM WALL BOARD IN DIRECT CONTACT WITH THE FLOOR. ALL PARTITIONS SHALL BE SHIMMED 1/2" OFF THE FLOOR WITH NON-POROUS SHIMS. PLASTIC NON-POROUS HORSESHOE SHIMS ARE RECOMMENDED. GYPSUM WALL BOARD SHIMS ARE NOT ACCEPTABLE.

12. WHERE GYPSUM WALL BOARD AND WALL CONSTRUCTION DOES NOT EXTEND TO ROOF DECK OR CEILING FINISH TOP EDGE OF GYPSUM BOARD SHALL HAVE LEVEL "J" BEAD AND ALL CORNERS SHALL HAVE CORNER BEAD FOR FINISH EDGE.

13. AT RATED WALL LOCATIONS, STENCIL WALLS EVERY 15'-30' IN MINIMUM 2" RED LETTERING NOTING THE WALL RATING. EXAMPLE: "2-HR RATED WALL".

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ROBERT W. FERRELL - NORTH CAROLINA REGISTERED ARCHITECT - RALEIGH, N.C.

CONSTRUCTION DOCUMENTS

HARNETT COUNTY SCHOOLS
FLATWOODS MIDDLE SCHOOL
3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

ISSUE DATE: 11/08/24
PROJECT #: 02208.000
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CHECKED BY: Checker

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WALL PARTITION TYPES

A-010

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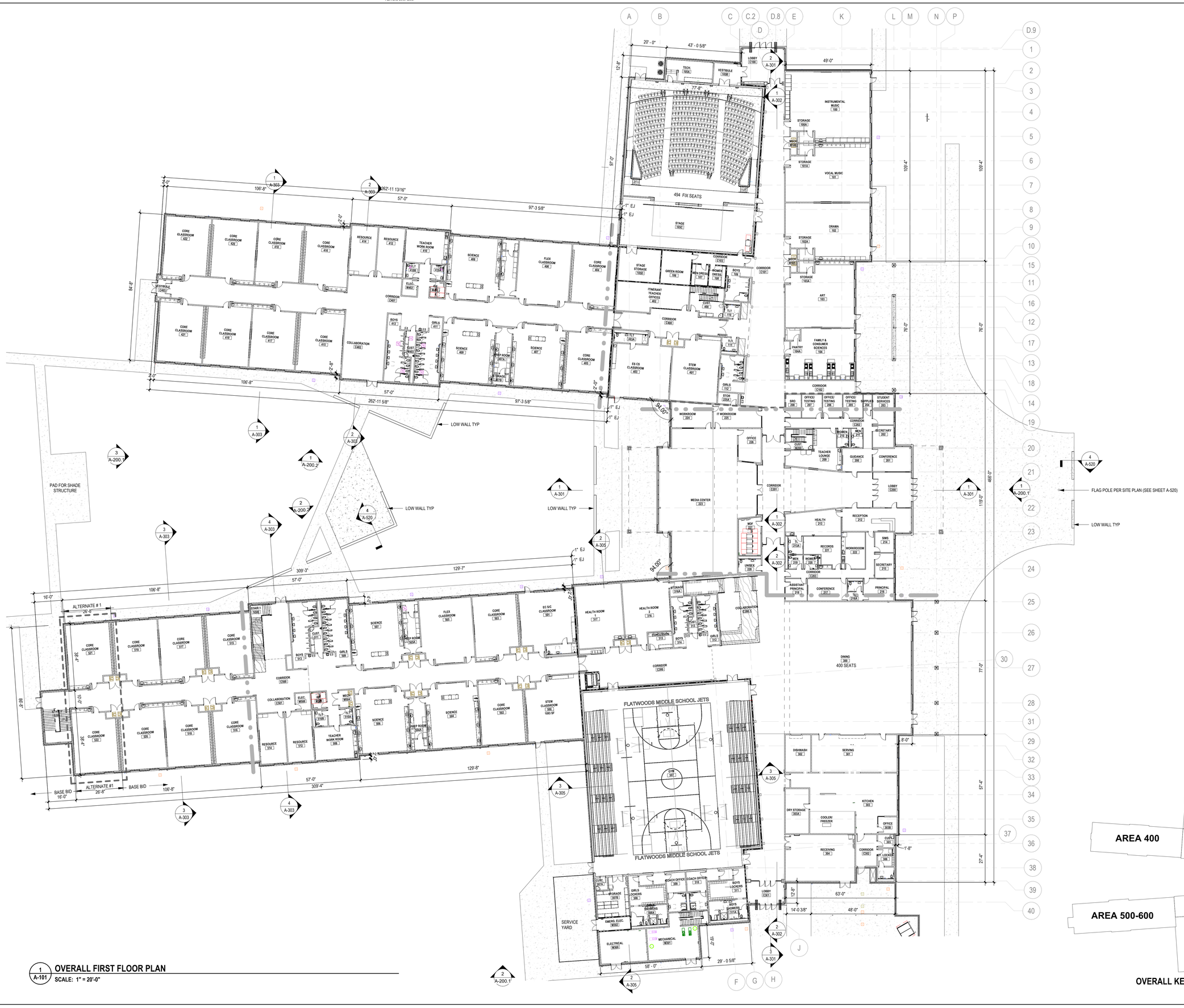
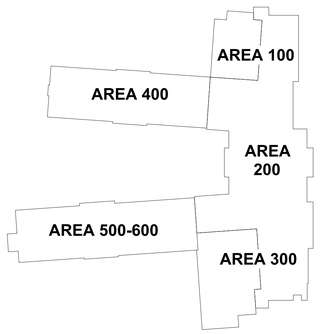


1 A-101 **OVERALL FIRST FLOOR PLAN**
SCALE: 1" = 20'-0"



OVERALL KEY PLAN

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ROBERT W. FENTRESS 10154 11/8/24 NORTH CAROLINA RALEIGH

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HARNETT COUNTY SCHOOLS

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OVERALL PLAN-FIRST FLOOR

A-101

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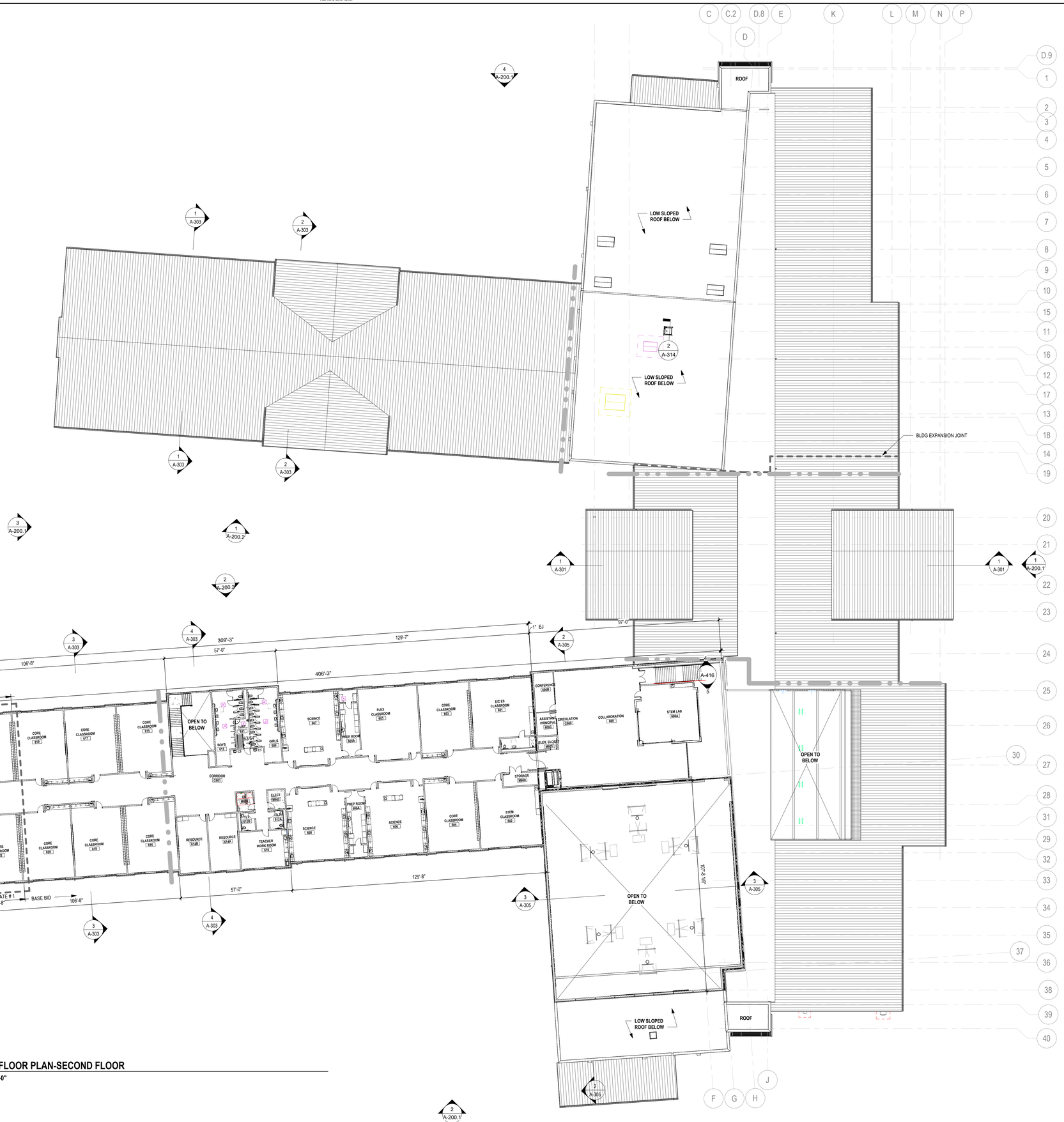

1 / A-102 OVERALL FLOOR PLAN-SECOND FLOOR
SCALE: 1" = 20'-0"

OVERALL KEY PLAN

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HARNETT COUNTY SCHOOLS

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OVERALL PLAN-SECOND FLOOR

A-102

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1 A-103 **OVERALL MECHANICAL PLAN**
SCALE: 1" = 20'-0"

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OVERALL BUILDING MECHANICAL PLAN

A-103

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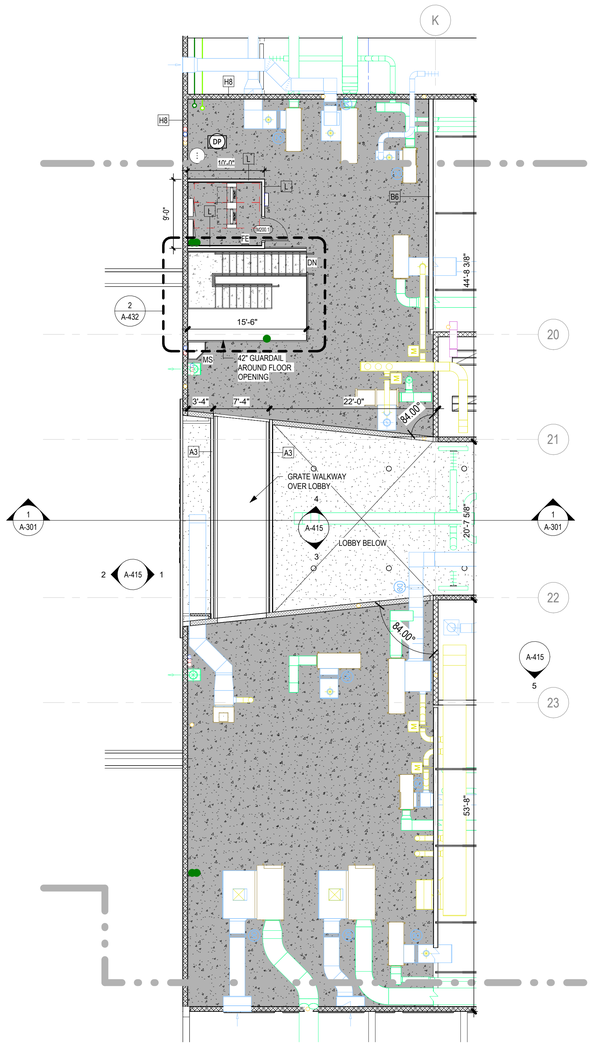
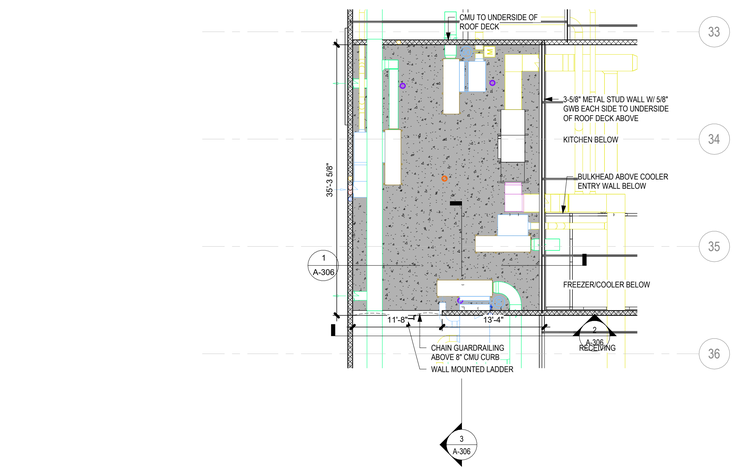


1 A-104 **MECH PLATFORM- AREA 200 ADMIN**
SCALE: 1/8" = 1'-0"

4 A-104 **MECH PLATFORM- AREA 100**
SCALE: 1/8" = 1'-0"



3 A-104 **MECH PLATFORM-AREA 300 KITCHEN**
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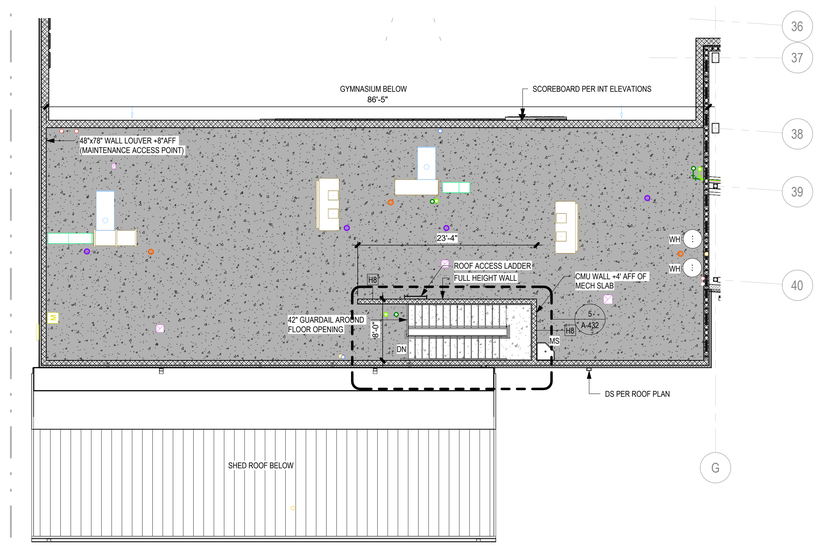

2 A-104 **MECH PLATFORM-AREA 300 GYM**
SCALE: 1/8" = 1'-0"

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FLATWOODS MIDDLE SCHOOL

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ENERGY STAR PARTNER

No.	Date	Description

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MECHANICAL PLANS

A-104

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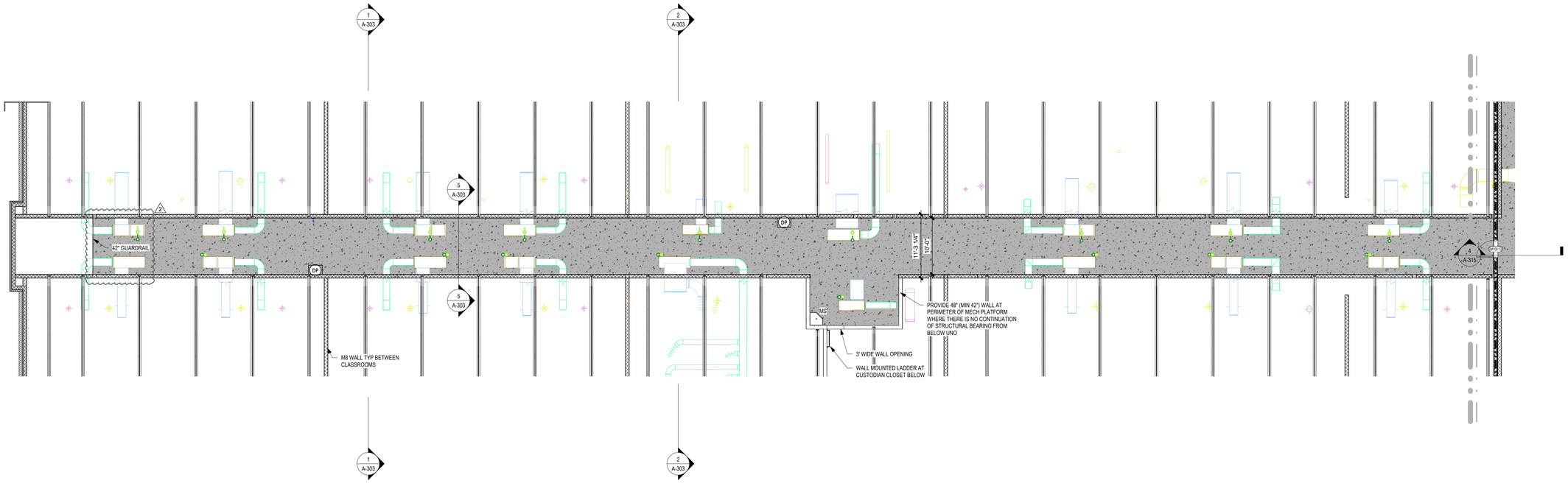

1 A-105 MECH PLATFORM- AREA 400
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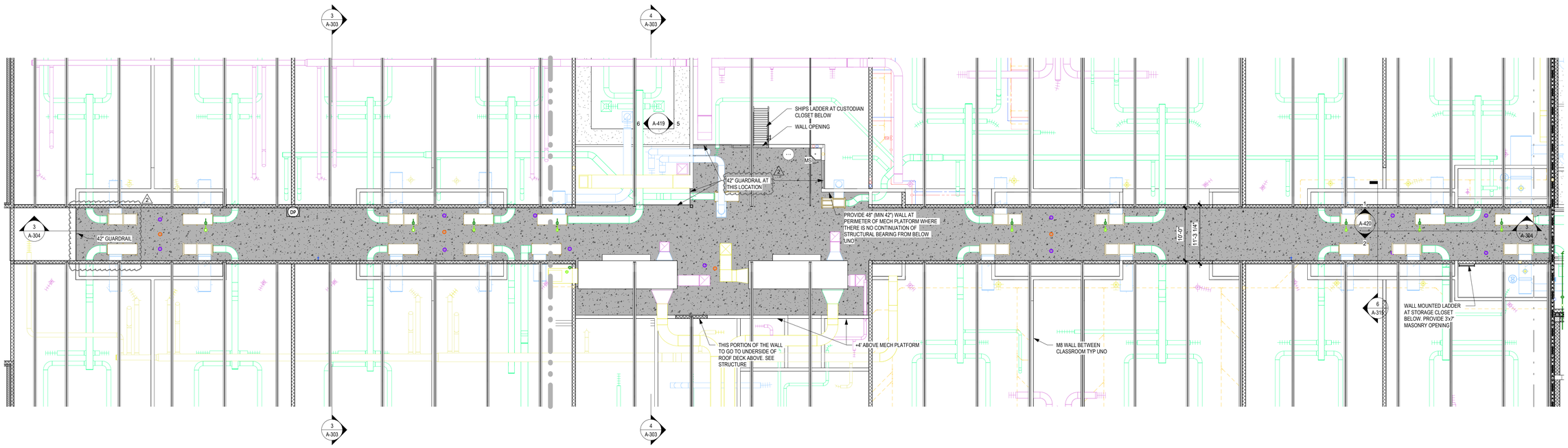

2 A-105 MECH PLATFORM 600
SCALE: 1/8" = 1'-0"

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MECHANICAL PLANS

A-105

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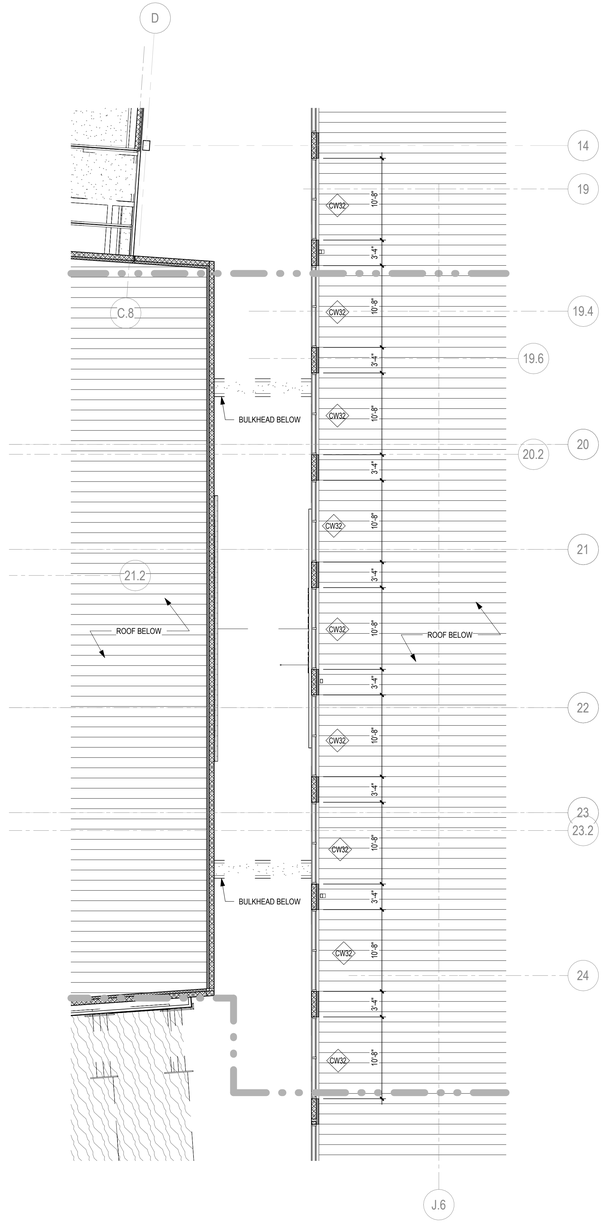
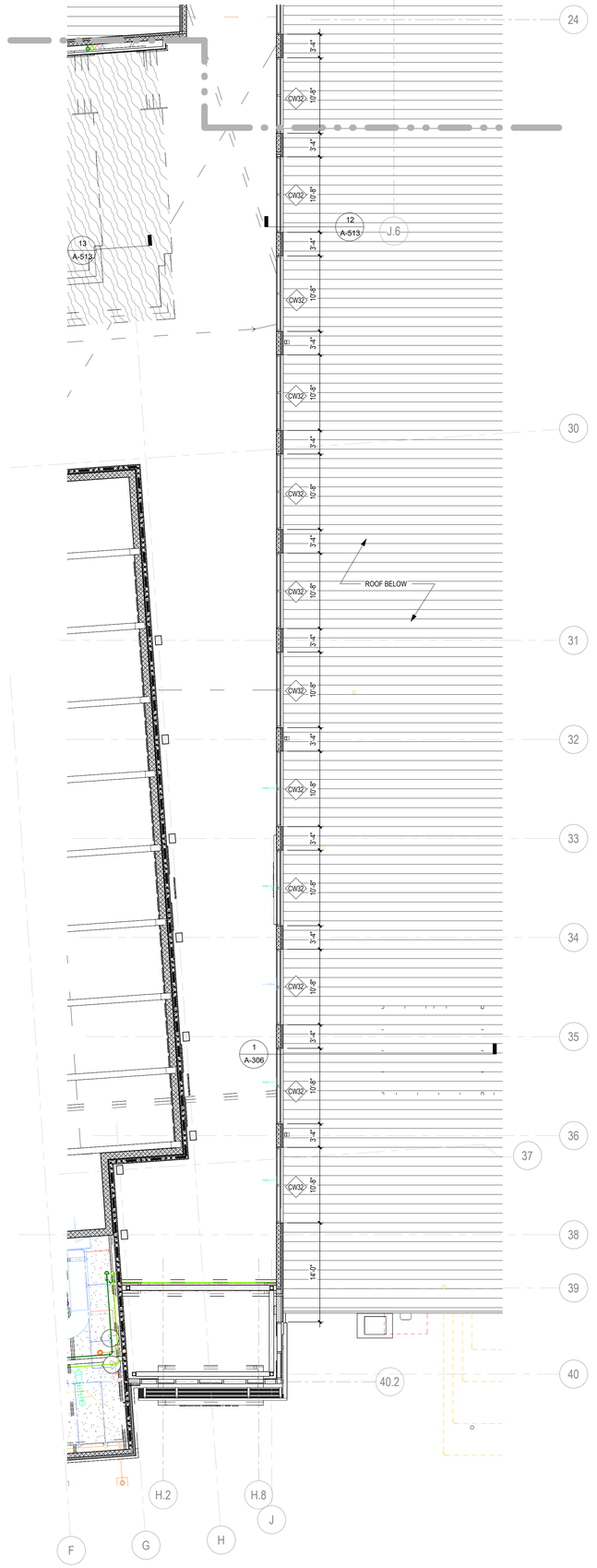
1 A-106 **OVERALL CLERESTORY PLAN-AREA 100**
SCALE: 1/8" = 1'-0"



2 A-106 **OVERALL CLERESTORY PLAN-AREA 200**
SCALE: 1/8" = 1'-0"



3 A-106 **OVERALL CLERESTORY PLAN-AREA 300**
SCALE: 1/8" = 1'-0"

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CLERESTORY PLAN

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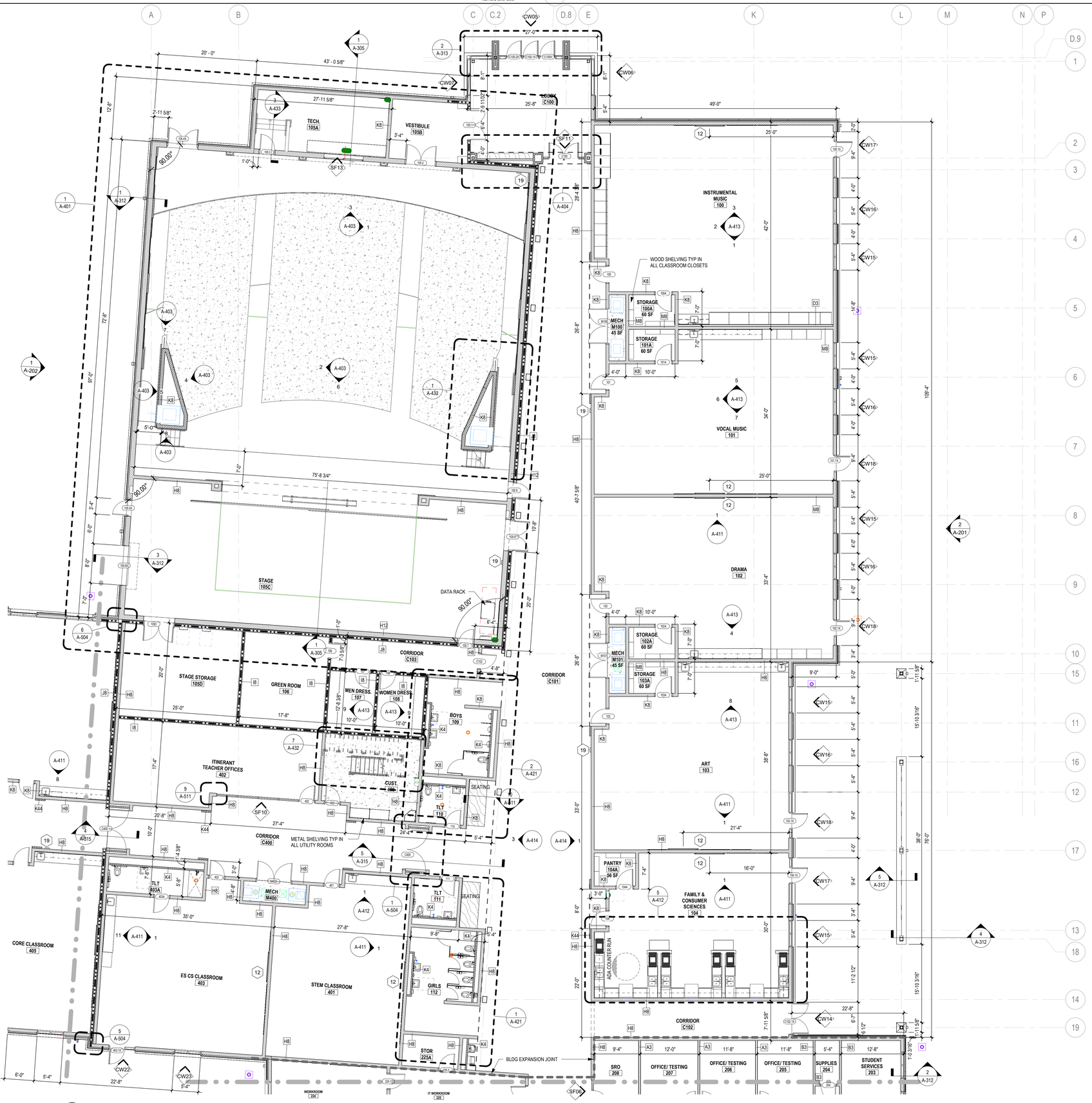
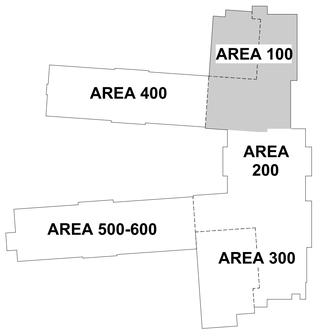


1 A-111 **PARTIAL FIRST FLOOR - AREA 100**
SCALE: 1/8" = 1'-0"



100 KEY PLAN

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	1 HR RATED EXIT ENCLOSURE (FIRE BARRIER)
	2 HOUR RATED WALL
CJ	CJ ON MASONRY
CA	CONTROL ACCESS - SEE LOW VOLTAGE DRAWINGS
KP	KEY PAD - SEE ELECTRICAL
EJ	BUILDING EXPANSION JOINT WITH COVER
DS	DOWNSPOUT - SEE CIVIL FOR CONNECTION INFORMATION
FD	FLOOR DRAIN - SEE PLUMBING DRAWINGS
H8	WALL TAG - SEE SHEET A-010 FOR WALL PARTITION TYPES
100	DOOR TAG - SEE SHEET A-601 AND FLOOR PLANS
W2	WINDOW TAG - SEE SHEET SEE SHEET A-611 THROUGH A-612 ALONG WITH FLOOR PLANS CURTAIN WALL TAG - SEE SHEET A-611 THROUGH A-612 ALONG WITH FLOOR PLANS

GENERAL NOTES:

1. SEE OVERALL PLAN ON A-101 FOR OVERALL BUILDING/MISSING DIMENSIONS.
2. SEE SHEET G-003 FOR UL DESIGNS.
3. SEE SHEET A-010 FOR WALL PARTITION TYPES.
4. ALL INTERIOR METAL STUD WALLS TO HAVE SOUND ATTENUATION BATTS.
5. PROVIDE POSITIVE FLOOR SLOPE TO ALL FLOOR DRAINS.
6. CONTROL JOINTS THAT ARE NOT SHOWN SHALL BE 25' MAX IN BRICK AND CMU WALLS.
7. SEE STRUCTURAL DRAWINGS FOR TYPES AND LOCATION OF LINTELS. WHERE NOT SHOWN, PROVIDE LINTELS FOR MECHANICAL, ELECTRICAL AND OTHER PENETRATIONS WHERE REQUIRED.

FLOOR PLAN KEY NOTES

1. METAL PAN STAIRS WITH RUBBER TREADS, RISERS AND LANDINGS
2. SEE FOOD SERVICE DRAWINGS FOR SERVING LAYOUT, KITCHEN LAYOUT, AND EQUIPMENT INCLUDINGS COOLER AND FREEZER
3. KNOX BOX - RECESSED IN EXTERIOR WALL, COORDINATE EXACT LOCATION WITH OWNER AND FIRE MARSHAL
4. GLASS DISPLAY CASES
5. SHIPS LADDER TO MECHANICAL PLATFORM, 3' WIDE TYP UNO
5A. WALL MOUNTED LADDER TO MECHANICAL PLATFORM, 3' WIDE TYP UNO
6. FURNITURE (N.I.C.) - FOR VENDING, RES. APPLIANCES, AND COPIERS, PROVIDE POWER PER MFR REQ'MTS
7. METAL UTILITY SHELVING - SEE SPECIFICATIONS
8. KILN AND VENT BY OWNER - COORDINATE MASONRY OPENING FOR VENT AND POWER REQUIREMENTS W/ MFR REQ'MTS
9. FIXED BASKETBALL HOOP. MAST COLOR TO BE SELECTED BY ARCHITECT.
10. ELECTRIC OPERATED BASKETBALL HOOP. MAST COLOR TO BE SELECTED BY ARCHITECT.
11. TWO TIER BUILT-IN BENCH SEATING, CMU WALL & SOLID SURFACE TOP
12. TEACHING WALL. LOCATE TV ON CORRIDOR SIDE & WHITEBOARD ON EXTERIOR WALL SIDE. DIMENSION IS TO CENTER OF THE TV. TV AND WHITEBOARD ONLY IN SCIENCE ROOMS. REFER TO DETAIL FOR MORE INFORMATION AND INTERIOR ELEVATIONS FOR TACKBOARD INFORMATION. (OWNER PROVIDED DISPLAY TV, COORDINATE OUTLET LOCATION)
13. LOW MASONRY WALL WITH PRE-CAST CAP - SEE SHEET A-520
14. ALUMINUM TRELLIS WITH WOOD GRAIN PATTERN. COLOR TO BE SELECTED FROM MANUF FULL LINE OF PATTERNS AND COLORS.
15. FURRING WITH GYP BOARD FINISH AROUND TEACHING WALL
16. TELESCOPING GYM BLEACHERS - OWNER PROVIDED, COORDINATE POWER REQUIREMENTS
17. MECHANICAL LOUVER - MATCH CW11 SIZE
18. 42" A.F.F. GUARD RAIL - SEE A-421 THRU A-423 FOR DTLS
19. WALL RECESSED FIRE EXTINGUISHER CABINET - SEE A5 SERIES SHEET FOR DETAILS
20. SCIENCE ROOM FE WITH FIRE BLANKET CAB W/ MSDS DISPLAY ABOVE FE
21. SCIENCE ROOM SHOWER AND EYE WASH WITH 3'x3' RECESSED FLOOR SLAB WITH DRAIN
22. UTILITY ROOM MOP SINK WITH SS WALL SPLASH GUARD & MOP HOLDER

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FLOOR PLAN AREA 100

A-111

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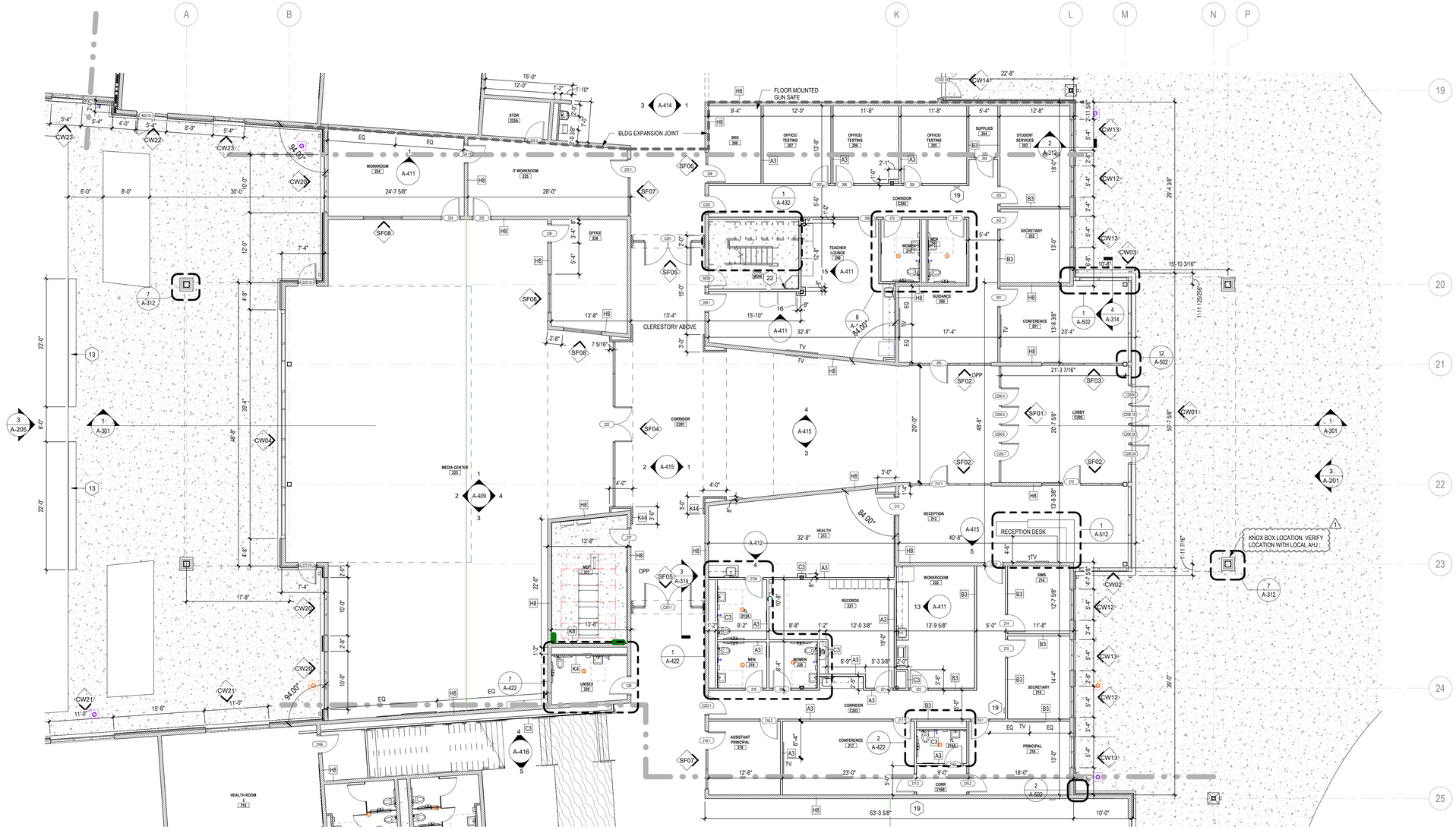

1 A-112 PARTIAL FIRST FLOOR - AREA 200

SCALE: 1/8" = 1'-0"

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	1 HR RATED EXIT ENCLOSURE (FIRE BARRIER)
	2 HOUR RATED WALL
CJ	CJ ON MASONRY
CA	CONTROL ACCESS - SEE LOW VOLTAGE DRAWINGS
KP	KEY PAD - SEE ELECTRICAL
EJ	BUILDING EXPANSION JOINT WITH COVER
DS	DOWNSPOUT - SEE CIVIL FOR CONNECTION INFORMATION
FD	FLOOR DRAIN - SEE PLUMBING DRAWINGS
H8	WALL TAG - SEE SHEET A-010 FOR WALL PARTITION TYPES
100	DOOR TAG - SEE SHEET A-601 AND FLOOR PLANS
W2	WINDOW TAG - SEE SHEET SEE SHEET A-611 THROUGH A-612 ALONG WITH FLOOR PLANS CURTAIN WALL TAG - SEE SHEET A-611 THROUGH A-612 ALONG WITH FLOOR PLANS

GENERAL NOTES:

1. SEE OVERALL PLAN ON A-101 FOR OVERALL BUILDING/MISSING DIMENSIONS.
2. SEE SHEET G-003 FOR UL DESIGNS.
3. SEE SHEET A-010 FOR WALL PARTITION TYPES.
4. ALL INTERIOR METAL STUD WALLS TO HAVE SOUND ATTENUATION BATTS.
5. PROVIDE POSITIVE FLOOR SLOPE TO ALL FLOOR DRAINS.
6. CONTROL JOINTS THAT ARE NOT SHOWN SHALL BE 25' MAX IN BRICK AND CMU WALLS.
7. SEE STRUCTURAL DRAWINGS FOR TYPES AND LOCATION OF LINTELS. WHERE NOT SHOWN, PROVIDE LINTELS FOR MECHANICAL, ELECTRICAL AND OTEHR PENETRATIONS WHERE REQUIRED.

FLOOR PLAN KEY NOTES

1. METAL PAN STAIRS WITH RUBBER TREADS, RISERS AND LANDINGS
2. SEE FOOD SERVICE DRAWINGS FOR SERVING LAYOUT, KITCHEN LAYOUT, AND EQUIPMENT INCLUDINGS COOLER AND FREEZER
3. KNOX BOX - RECESSED IN EXTERIOR WALL, COORDINATE EXACT LOCATION WITH OWNER AND FIRE MARSHAL
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5. SHIPS LADDER TO MECHANICAL PLATFORM, 3' WIDE TYP UNO
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6. FURNITURE (N.I.C.) - FOR VENDING, RES. APPLIANCES, AND COPIERS, PROVIDE POWER PER MFR REQMTS
7. METAL UTILITY SHELVING - SEE SPECIFICATIONS
8. KILN AND VENT BY OWNER - COORDINATE MASONRY OPENING FOR VENT AND POWER REQUIREMENTS W/ MFR REQMTS
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13. LOW MASONRY WALL WITH PRE-CAST CAP - SEE SHEET A-520
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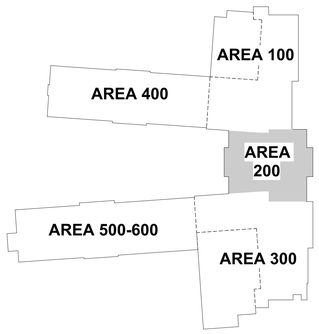
15. FURRING WITH GYP BOARD FINISH AROUND TEACHING WALL
16. TELESCOPING GYM BLEACHERS - OWNER PROVIDED, COORDINATE POWER REQUIREMENTS
17. MECHANICAL LOUVER - MATCH CW11 SIZE
18. 42" A.F.F. GUARD RAIL - SEE A-421 THRU A-423 FOR DTLS
19. WALL RECESSED FIRE EXTINGUISHER CABINET - SEE A5 SERIES SHEET FOR DETAILS
20. SCIENCE ROOM FE WITH FIRE BLANKET CAB W/ MSDS DISPLAY ABOVE FE
21. SCIENCE ROOM SHOWER AND EYE WASH WITH 3'x3' RECESSED FLOOR SLAB WITH DRAIN
22. UTILITY ROOM MOP SINK WITH SS WALL SPLASH GUARD & MOP HOLDER



200 KEY PLAN

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FLOOR PLAN AREA 200

A-112

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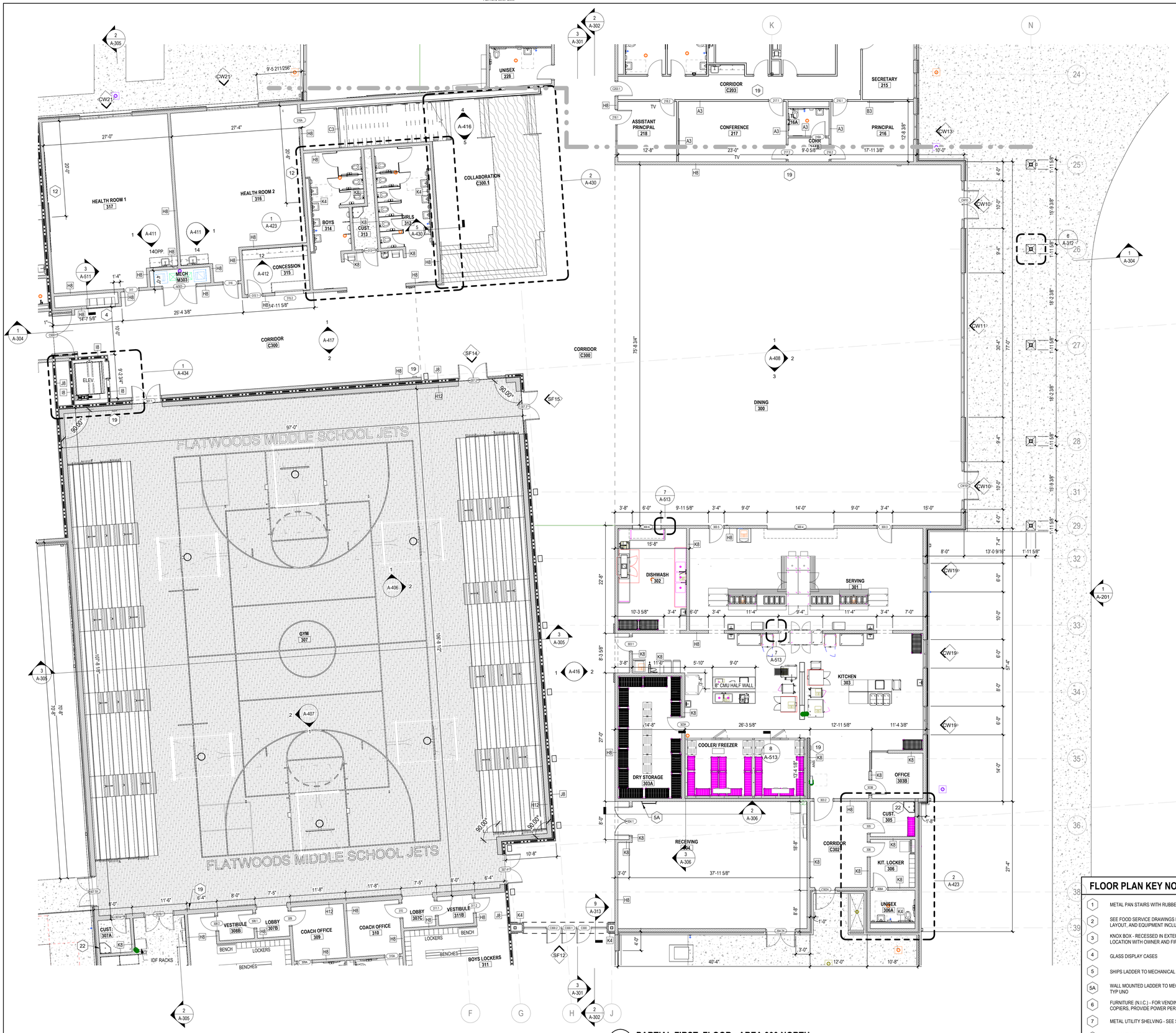
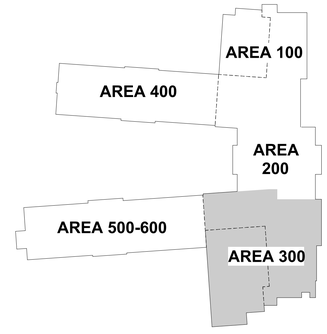


1 A-113.1 **PARTIAL FIRST FLOOR - AREA 300 NORTH**
SCALE: 1/8" = 1'-0"



300 KEY PLAN

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	1 HR RATED EXIT ENCLOSURE (FIRE BARRIER)
	2 HOUR RATED WALL
CJ	CJ ON MASONRY
CA	CONTROL ACCESS - SEE LOW VOLTAGE DRAWINGS
KP	KEY PAD - SEE ELECTRICAL
EJ	BUILDING EXPANSION JOINT WITH COVER
DS	DOWNSPOUT - SEE CIVIL FOR CONNECTION INFORMATION
FD	FLOOR DRAIN - SEE PLUMBING DRAWINGS
H8	WALL TAG - SEE SHEET A-010 FOR WALL PARTITION TYPES
100	DOOR TAG - SEE SHEET A-601 AND FLOOR PLANS
W2 / 37	WINDOW TAG - SEE SHEET SEE SHEET A-611 THROUGH A-612 ALONG WITH FLOOR PLANS CURTAIN WALL TAG - SEE SHEET A-611 THROUGH A-612 ALONG WITH FLOOR PLANS

GENERAL NOTES:

1. SEE OVERALL PLAN ON A-101 FOR OVERALL BUILDING/MISSING DIMENSIONS.
2. SEE SHEET G-003 FOR UL DESIGNS.
3. SEE SHEET A-010 FOR WALL PARTITION TYPES.
4. ALL INTERIOR METAL STUD WALLS TO HAVE SOUND ATTENUATION BATTS.
5. PROVIDE POSITIVE FLOOR SLOPE TO ALL FLOOR DRAINS.
6. CONTROL JOINTS THAT ARE NOT SHOWN SHALL BE 25' MAX IN BRICK AND CMU WALLS.
7. SEE STRUCTURAL DRAWINGS FOR TYPES AND LOCATION OF LINTELS. WHERE NOT SHOWN, PROVIDE LINTELS FOR MECHANICAL, ELECTRICAL AND OTEHR PENETRATIONS WHERE REQUIRED.

FLOOR PLAN KEY NOTES

1	METAL PAN STAIRS WITH RUBBER TREADS, RISERS AND LANDINGS	12	TEACHING WALL. LOCATE TV ON CORRIDOR SIDE & WHITEBOARD ON EXTERIOR WALL SIDE. DIMENSION IS TO CENTER OF THE TV. TV AND WHITEBOARD ONLY IN SCIENCE ROOMS. REFER TO DETAIL FOR MORE INFORMATION AND INTERIOR ELEVATIONS FOR TACKBOARD INFORMATION. (OWNER PROVIDED DISPLAY TV, COORDINATE OUTLET LOCATION)
2	SEE FOOD SERVICE DRAWINGS FOR SERVING LAYOUT, KITCHEN LAYOUT, AND EQUIPMENT INCLUDINGS COOLER AND FREEZER		
3	KNOX BOX - RECESSED IN EXTERIOR WALL, COORDINATE EXACT LOCATION WITH OWNER AND FIRE MARSHAL	13	LOW MASONRY WALL WITH PRE-CAST CAP - SEE SHEET A-520
4	GLASS DISPLAY CASES	14	ALUMINUM TRELLIS WITH WOOD GRAIN PATTERN. COLOR TO BE SELECTED FROM MANUF FULL LINE OF PATTERNS AND COLORS.
5	SHIPS LADDER TO MECHANICAL PLATFORM, 3' WIDE TYP UNO	15	FURRING WITH GYP BOARD FINISH AROUND TEACHING WALL
5A	WALL MOUNTED LADDER TO MECHANICAL PLATFORM, 3' WIDE TYP UNO	16	TELESCOPING GYM BLEACHERS - OWNER PROVIDED, COORDINATE POWER REQUIREMENTS
6	FURNITURE (N.I.C.) - FOR VENDING, RES. APPLIANCES, AND COPIERS, PROVIDE POWER PER MFR REQ'MTS	17	MECHANICAL LOUVER - MATCH CW11 SIZE
7	METAL UTILITY SHELVING - SEE SPECIFICATIONS	18	42" A.F.F. GUARD RAIL - SEE A-421 THRU A-423 FOR DTLS
8	KILN AND VENT BY OWNER - COORDINATE MASONRY OPENING FOR VENT AND POWER REQUIREMENTS W/ MFR REQ'MTS	19	WALL RECESSED FIRE EXTINGUISHER CABINET - SEE A5 SERIES SHEET FOR DETAILS
9	FIXED BASKETBALL HOOP. MAST COLOR TO BE SELECTED BY ARCHITECT.	20	SCIENCE ROOM FE WITH FIRE BLANKET CAB W/ MSDS DISPLAY ABOVE FE
10	ELECTRIC OPERATED BASKETBALL HOOP. MAST COLOR TO BE SELECTED BY ARCHITECT.	21	SCIENCE ROOM SHOWER AND EYE WASH WITH 3'x3' RECESSED FLOOR SLAB WITH DRAIN
11	TWO TIER BUILT-IN BENCH SEATING, CMU WALL & SOLID SURFACE TOP	22	UTILITY ROOM MOP SINK WITH SS WALL SPLASH GUARD & MOP HOLDER

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FLOOR PLAN AREA
300 NORTH

A-113.1

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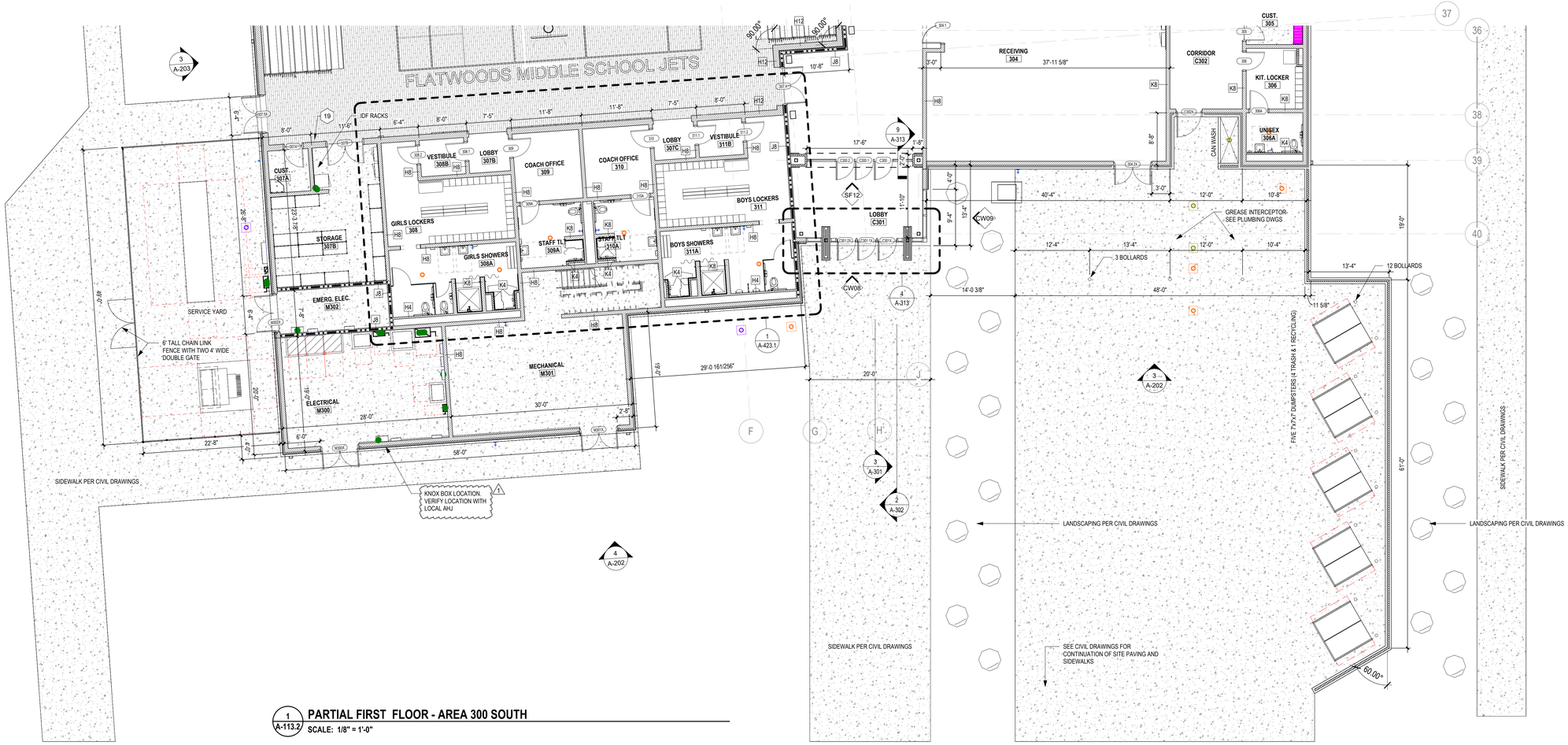


1 A-113.2 PARTIAL FIRST FLOOR - AREA 300 SOUTH

SCALE: 1/8" = 1'-0"

FLOOR PLAN LEGEND

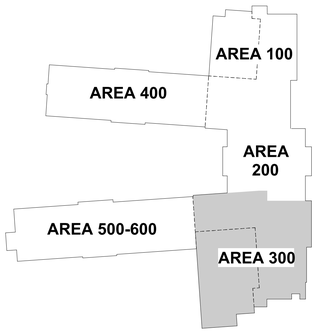
SYMBOL	DESCRIPTION
	1 HR RATED EXIT ENCLOSURE (FIRE BARRIER)
	2 HOUR RATED WALL
CJ	CJ ON MASONRY
CA	CONTROL ACCESS - SEE LOW VOLTAGE DRAWINGS
KP	KEY PAD - SEE ELECTRICAL
EJ	BUILDING EXPANSION JOINT WITH COVER
DS	DOWNSPOUT - SEE CIVIL FOR CONNECTION INFORMATION
FD	FLOOR DRAIN - SEE PLUMBING DRAWINGS
H8	WALL TAG - SEE SHEET A-010 FOR WALL PARTITION TYPES
100	DOOR TAG - SEE SHEET A-601 AND FLOOR PLANS
W2	WINDOW TAG - SEE SHEET SEE SHEET A-611 THROUGH A-612 ALONG WITH FLOOR PLANS CURTAIN WALL TAG - SEE SHEET A-611 THROUGH A-612 ALONG WITH FLOOR PLANS

GENERAL NOTES:

1. SEE OVERALL PLAN ON A-101 FOR OVERALL BUILDING/MISSING DIMENSIONS.
2. SEE SHEET G-003 FOR UL DESIGNS.
3. SEE SHEET A-010 FOR WALL PARTITION TYPES.
4. ALL INTERIOR METAL STUD WALLS TO HAVE SOUND ATTENUATION BATTS.
5. PROVIDE POSITIVE FLOOR SLOPE TO ALL FLOOR DRAINS.
6. CONTROL JOINTS THAT ARE NOT SHOWN SHALL BE 25' MAX IN BRICK AND CMU WALLS.
7. SEE STRUCTURAL DRAWINGS FOR TYPES AND LOCATION OF LINTELS. WHERE NOT SHOWN, PROVIDE LINTELS FOR MECHANICAL, ELECTRICAL AND OTEHR PENETRATIONS WHERE REQUIRED.

FLOOR PLAN KEY NOTES

1	METAL PAN STAIRS WITH RUBBER TREADS, RISERS AND LANDINGS	12	TEACHING WALL. LOCATE TV ON CORRIDOR SIDE & WHITEBOARD ON EXTERIOR WALL SIDE. DIMENSION IS TO CENTER OF THE TV. TV AND WHITEBOARD ONLY IN SCIENCE ROOMS. REFER TO DETAIL FOR MORE INFORMATION AND INTERIOR ELEVATIONS FOR TACKBOARD INFORMATION. (OWNER PROVIDED DISPLAY TV, COORDINATE OUTLET LOCATION)
2	SEE FOOD SERVICE DRAWINGS FOR SERVING LAYOUT, KITCHEN LAYOUT, AND EQUIPMENT INCLUDINGS COOLER AND FREEZER	13	LOW MASONRY WALL WITH PRE-CAST CAP - SEE SHEET A-520
3	KNOX BOX - RECESSED IN EXTERIOR WALL, COORDINATE EXACT LOCATION WITH OWNER AND FIRE MARSHAL	14	ALUMINUM TRELLIS WITH WOOD GRAIN PATTERN. COLOR TO BE SELECTED FROM MANUF FULL LINE OF PATTERNS AND COLORS.
4	GLASS DISPLAY CASES	15	FURRING WITH GYP BOARD FINISH AROUND TEACHING WALL
5	SHIPS LADDER TO MECHANICAL PLATFORM, 3' WIDE TYP UNO	16	TELESCOPING GYM BLEACHERS - OWNER PROVIDED, COORDINATE POWER REQUIREMENTS
5A	WALL MOUNTED LADDER TO MECHANICAL PLATFORM, 3' WIDE TYP UNO	17	MECHANICAL LOUVER - MATCH CW11 SIZE
6	FURNITURE (N.I.C.) - FOR VENDING, RES. APPLIANCES, AND COPIERS, PROVIDE POWER PER MFR REQ'MTS	18	42" A.F.F. GUARD RAIL - SEE A-421 THRU A-423 FOR DTLS
7	METAL UTILITY SHELVING - SEE SPECIFICATIONS	19	WALL RECESSED FIRE EXTINGUISHER CABINET - SEE A5 SERIES SHEET FOR DETAILS
8	KILN AND VENT BY OWNER - COORDINATE MASONRY OPENING FOR VENT AND POWER REQUIREMENTS W/ MFR REQ'MTS	20	SCIENCE ROOM FE WITH FIRE BLANKET CAB W/ MSDS DISPLAY ABOVE FE
9	FIXED BASKETBALL HOOP. MAST COLOR TO BE SELECTED BY ARCHITECT.	21	SCIENCE ROOM SHOWER AND EYE WASH WITH 3'x3' RECESSED FLOOR SLAB WITH DRAIN
10	ELECTRIC OPERATED BASKETBALL HOOP. MAST COLOR TO BE SELECTED BY ARCHITECT.	22	UTILITY ROOM MOP SINK WITH SS WALL SPLASH GUARD & MOP HOLDER
11	TWO TIER BUILT-IN BENCH SEATING, CMU WALL & SOLID SURFACE TOP		



300 KEY PLAN

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ROBERT W. FERRY ARCHITECT, P.A. 11/8/24 NORTH CAROLINA RALEIGH

CONSTRUCTION DOCUMENTS

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FLATWOODS MIDDLE SCHOOL

3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description
1	12-06-24	NCDOI CD

ISSUE DATE: 11/08/24

PROJECT #: 02208.000
DRAWN BY: Author
CHECKED BY: Checker

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FLOOR PLAN AREA 300 SOUTH

A-113.2

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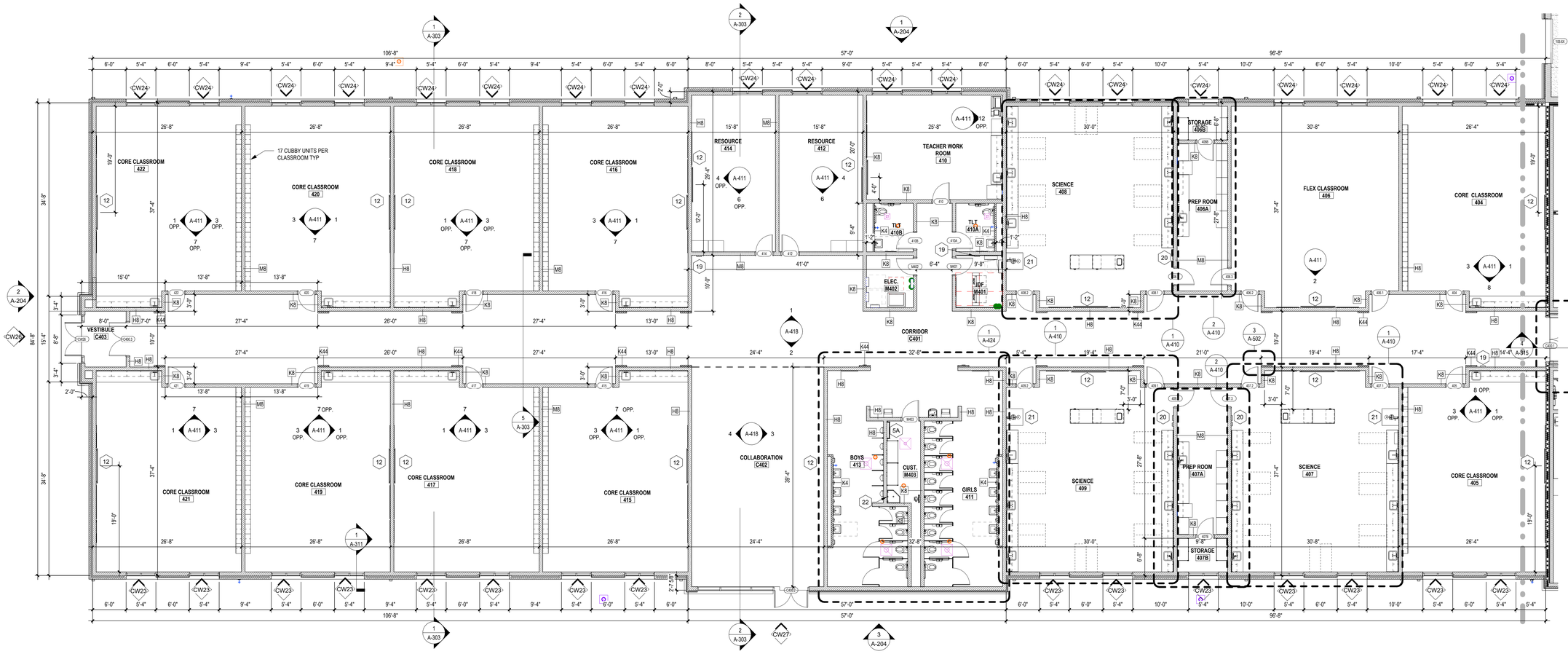

1 A-114 PARTIAL FIRST FLOOR PLAN - AREA 400

SCALE: 1/8" = 1'-0"

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	1 HR RATED EXIT ENCLOSURE (FIRE BARRIER)
	2 HOUR RATED WALL
CJ	CJ ON MASONRY
CA	CONTROL ACCESS - SEE LOW VOLTAGE DRAWINGS
KP	KEY PAD - SEE ELECTRICAL
EJ	BUILDING EXPANSION JOINT WITH COVER
DS	DOWNSPOUT - SEE CIVIL FOR CONNECTION INFORMATION
FD	FLOOR DRAIN - SEE PLUMBING DRAWINGS
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3. KNOX BOX - RECESSED IN EXTERIOR WALL, COORDINATE EXACT LOCATION WITH OWNER AND FIRE MARSHAL
4. GLASS DISPLAY CASES
5. SHIPS LADDER TO MECHANICAL PLATFORM, 3' WIDE TYP UNO
5A. WALL MOUNTED LADDER TO MECHANICAL PLATFORM, 3' WIDE TYP UNO
6. FURNITURE (N.I.C.) - FOR VENDING, RES. APPLIANCES, AND COPIERS, PROVIDE POWER PER MFR REQ'MTS
7. METAL UTILITY SHELVING - SEE SPECIFICATIONS
8. KILN AND VENT BY OWNER - COORDINATE MASONRY OPENING FOR VENT AND POWER REQUIREMENTS W/ MFR REQ'MTS
9. FIXED BASKETBALL HOOP. MAST COLOR TO BE SELECTED BY ARCHITECT.
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11. TWO TIER BUILT-IN BENCH SEATING, CMU WALL & SOLID SURFACE TOP
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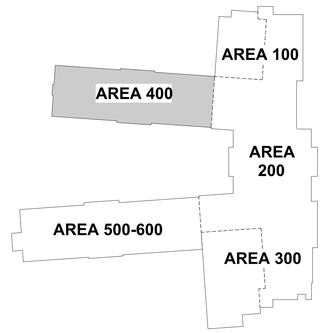

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CONSTRUCTION DOCUMENTS

HARNETT COUNTY SCHOOLS

FLATWOODS MIDDLE SCHOOL

3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

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PROJECT #: 02208.000
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FLOOR PLAN AREA 400

A-114

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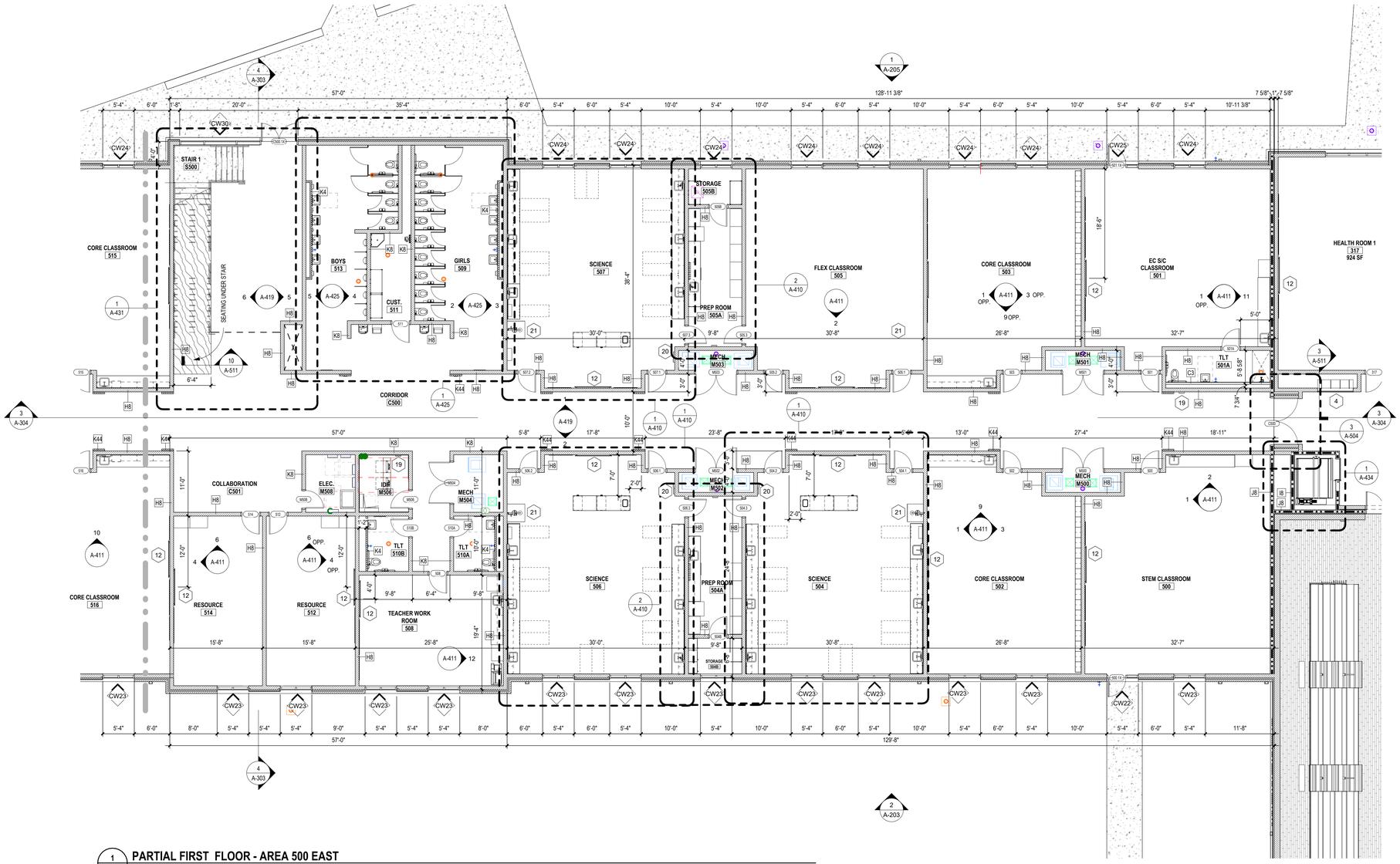

1 A-115.1 PARTIAL FIRST FLOOR - AREA 500 EAST

SCALE: 1/8" = 1'-0"

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	1 HR RATED EXIT ENCLOSURE (FIRE BARRIER)
	2 HOUR RATED WALL
CJ	CJ ON MASONRY
CA	CONTROL ACCESS - SEE LOW VOLTAGE DRAWINGS
KP	KEY PAD - SEE ELECTRICAL
EJ	BUILDING EXPANSION JOINT WITH COVER
DS	DOWNSPOUT - SEE CIVIL FOR CONNECTION INFORMATION
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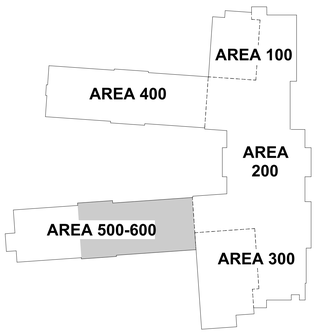

500/600 EAST KEY PLAN

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FLATWOODS MIDDLE SCHOOL

3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

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FLOOR PLAN AREA 500 EAST

A-115.1

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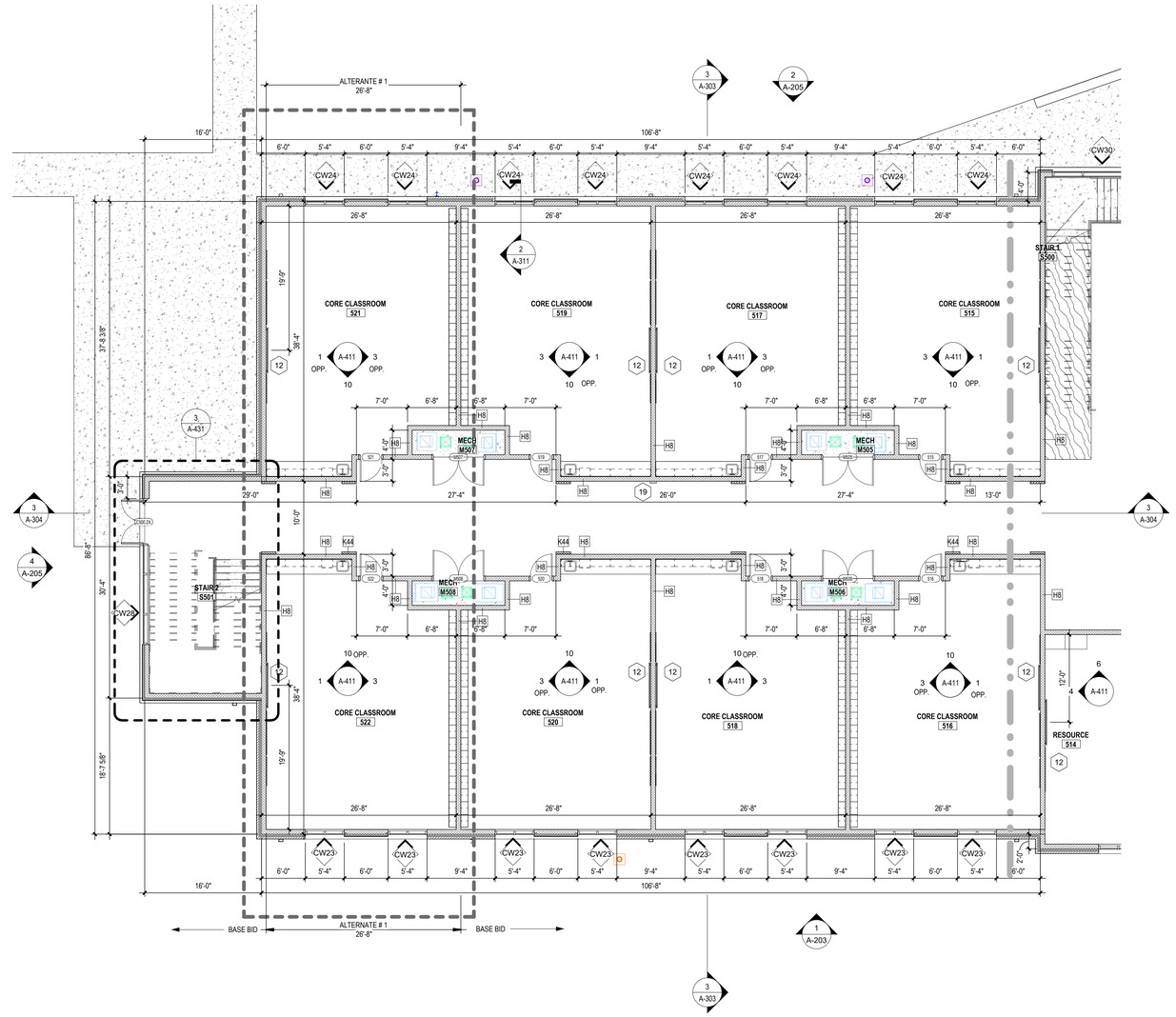

1 A-115.2 PARTIAL FIRST FLOOR - AREA 500 WEST

SCALE: 1/8" = 1'-0"

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	1 HR RATED EXIT ENCLOSURE (FIRE BARRIER)
	2 HOUR RATED WALL
CJ	CJ ON MASONRY
CA	CONTROL ACCESS - SEE LOW VOLTAGE DRAWINGS
KP	KEY PAD - SEE ELECTRICAL
EJ	BUILDING EXPANSION JOINT WITH COVER
DS	DOWNSPOUT - SEE CIVIL FOR CONNECTION INFORMATION
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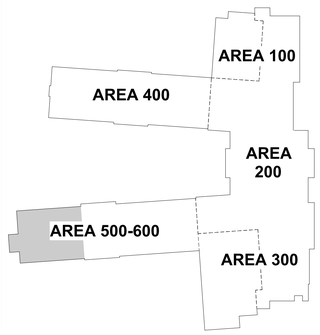

500/600 WEST KEY PLAN

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FLATWOODS MIDDLE SCHOOL

3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

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FLOOR PLAN AREA 500 WEST

A-115.2

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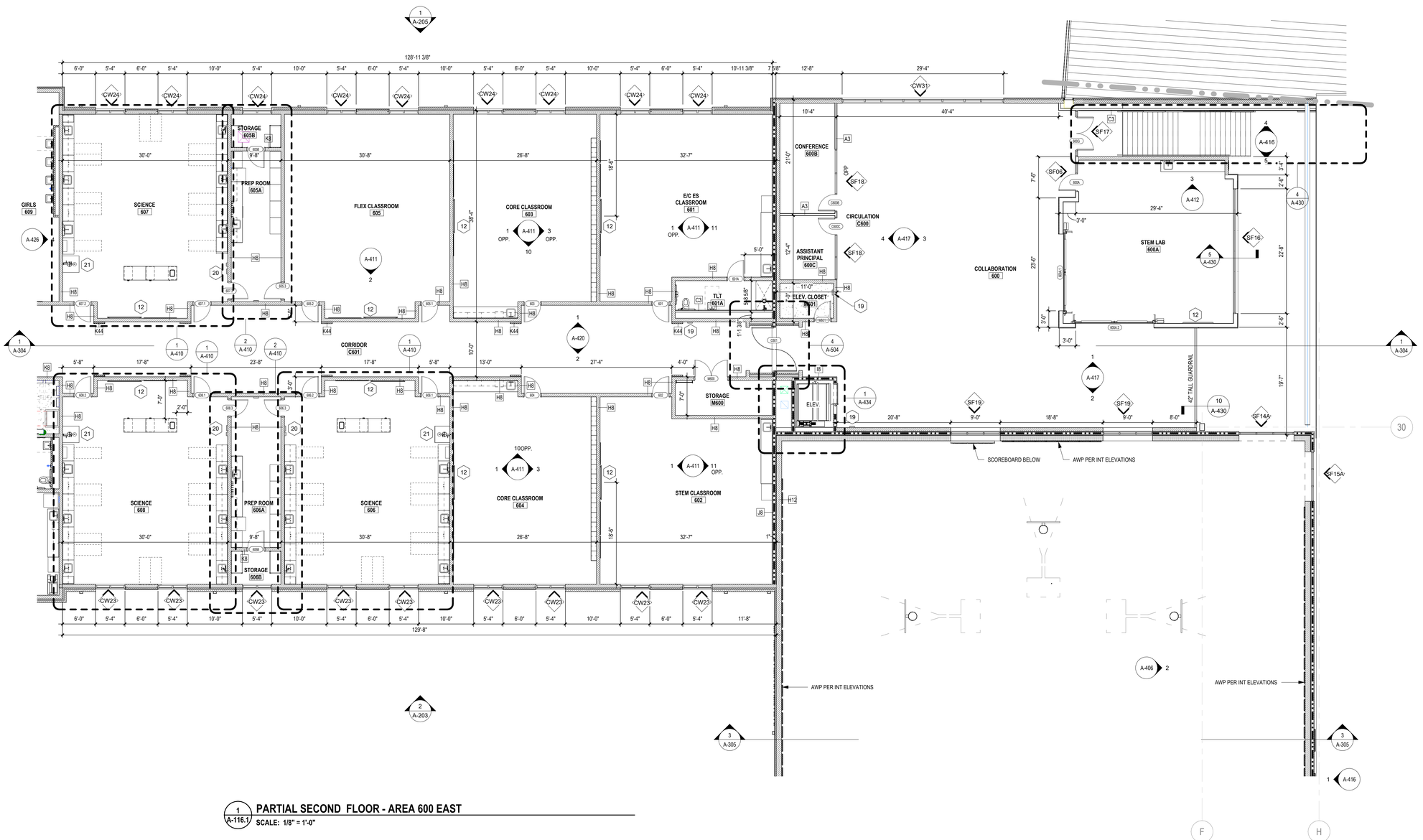

1 PARTIAL SECOND FLOOR - AREA 600 EAST
A-116.1

SCALE: 1/8" = 1'-0"

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	1 HR RATED EXIT ENCLOSURE (FIRE BARRIER)
	2 HOUR RATED WALL
CJ	CJ ON MASONRY
CA	CONTROL ACCESS - SEE LOW VOLTAGE DRAWINGS
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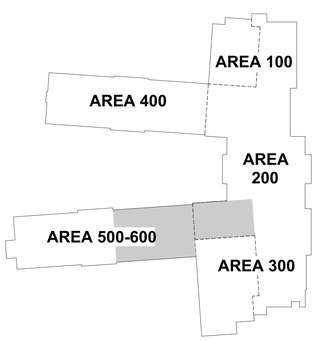
3. SEE SHEET A-010 FOR WALL PARTITION TYPES.
4. ALL INTERIOR METAL STUD WALLS TO HAVE SOUND ATTENUATION BATTS.
5. PROVIDE POSITIVE FLOOR SLOPE TO ALL FLOOR DRAINS.
6. CONTROL JOINTS THAT ARE NOT SHOWN SHALL BE 25' MAX IN BRICK AND CMU WALLS.
7. SEE STRUCTURAL DRAWINGS FOR TYPES AND LOCATION OF LINTELS. WHERE NOT SHOWN, PROVIDE LINTELS FOR MECHANICAL, ELECTRICAL AND OTEHR PENETRATIONS WHERE REQUIRED.

FLOOR PLAN KEY NOTES

1	METAL PAN STAIRS WITH RUBBER TREADS, RISERS AND LANDINGS	12	TEACHING WALL. LOCATE TV ON CORRIDOR SIDE & WHITEBOARD ON EXTERIOR WALL SIDE. DIMENSION IS TO CENTER OF THE TV. TV AND WHITEBOARD ONLY IN SCIENCE ROOMS. REFER TO DETAIL FOR MORE INFORMATION AND INTERIOR ELEVATIONS FOR TACKBOARD INFORMATION. (OWNER PROVIDED DISPLAY TV, COORDINATE OUTLET LOCATION)
2	SEE FOOD SERVICE DRAWINGS FOR SERVING LAYOUT, KITCHEN LAYOUT, AND EQUIPMENT INCLUDINGS COOLER AND FREEZER	13	LOW MASONRY WALL WITH PRE-CAST CAP - SEE SHEET A-520
3	KNOX BOX - RECESSED IN EXTERIOR WALL, COORDINATE EXACT LOCATION WITH OWNER AND FIRE MARSHAL	14	ALUMINUM TRELLIS WITH WOOD GRAIN PATTERN. COLOR TO BE SELECTED FROM MANUF FULL LINE OF PATTERNS AND COLORS.
4	GLASS DISPLAY CASES	15	FURRING WITH GYP BOARD FINISH AROUND TEACHING WALL
5	SHIPS LADDER TO MECHANICAL PLATFORM, 3' WIDE TYP UNO	16	TELESCOPING GYM BLEACHERS - OWNER PROVIDED, COORDINATE POWER REQUIREMENTS
5A	WALL MOUNTED LADDER TO MECHANICAL PLATFORM, 3' WIDE TYP UNO	17	MECHANICAL LOUVER - MATCH CW11 SIZE
6	FURNITURE (N.I.C.) - FOR VENDING, RES. APPLIANCES, AND COPIERS, PROVIDE POWER PER MFR REQMTS	18	42" A.F.F. GUARD RAIL - SEE A-421 THRU A-423 FOR DTLS
7	METAL UTILITY SHELVING - SEE SPECIFICATIONS	19	WALL RECESSED FIRE EXTINGUISHER CABINET - SEE A5 SERIES SHEET FOR DETAILS
8	KILN AND VENT BY OWNER - COORDINATE MASONRY OPENING FOR VENT AND POWER REQUIREMENTS W/ MFR REQMTS	20	SCIENCE ROOM FE WITH FIRE BLANKET CAB W/ MSDS DISPLAY ABOVE FE
9	FIXED BASKETBALL HOOP. MAST COLOR TO BE SELECTED BY ARCHITECT.	21	SCIENCE ROOM SHOWER AND EYE WASH WITH 3'x3' RECESSED FLOOR SLAB WITH DRAIN
10	ELECTRIC OPERATED BASKETBALL HOOP. MAST COLOR TO BE SELECTED BY ARCHITECT.	22	UTILITY ROOM MOP SINK WITH SS WALL SPLASH GUARD & MOP HOLDER
11	TWO TIER BUILT-IN BENCH SEATING, CMU WALL & SOLID SURFACE TOP		



600 EAST KEY PLAN

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FLOOR PLAN AREA 600 EAST

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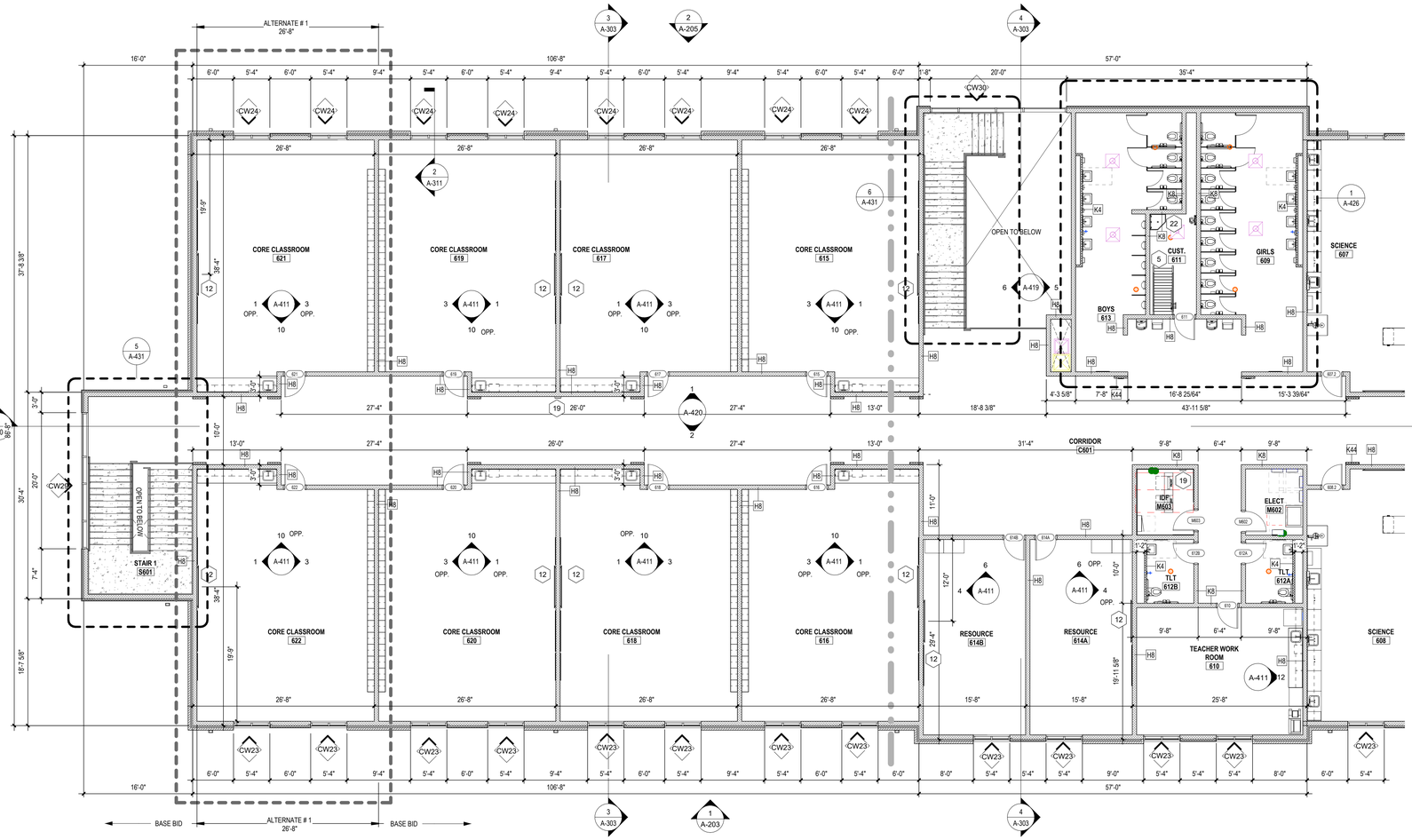


1 A-116.2 PARTIAL SECOND FLOOR - AREA 600 WEST

SCALE: 1/8" = 1'-0"

FLOOR PLAN LEGEND

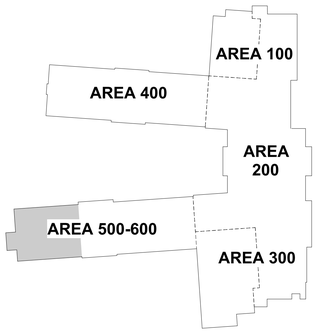
SYMBOL	DESCRIPTION
	1 HR RATED EXIT ENCLOSURE (FIRE BARRIER)
	2 HOUR RATED WALL
CJ	CJ ON MASONRY
CA	CONTROL ACCESS - SEE LOW VOLTAGE DRAWINGS
KP	KEY PAD - SEE ELECTRICAL
EJ	BUILDING EXPANSION JOINT WITH COVER
DS	DOWNSPOUT - SEE CIVIL FOR CONNECTION INFORMATION
FD	FLOOR DRAIN - SEE PLUMBING DRAWINGS
H8	WALL TAG - SEE SHEET A-010 FOR WALL PARTITION TYPES
100	DOOR TAG - SEE SHEET A-601 AND FLOOR PLANS
W2	WINDOW TAG - SEE SHEET SEE SHEET A-611 THROUGH A-612 ALONG WITH FLOOR PLANS CURTAIN WALL TAG - SEE SHEET A-611 THROUGH A-612 ALONG WITH FLOOR PLANS

GENERAL NOTES:

1. SEE OVERALL PLAN ON A-101 FOR OVERALL BUILDING/MISSING DIMENSIONS.
2. SEE SHEET G-003 FOR UL DESIGNS.
3. SEE SHEET A-010 FOR WALL PARTITION TYPES.
4. ALL INTERIOR METAL STUD WALLS TO HAVE SOUND ATTENUATION BATTS.
5. PROVIDE POSITIVE FLOOR SLOPE TO ALL FLOOR DRAINS.
6. CONTROL JOINTS THAT ARE NOT SHOWN SHALL BE 25' MAX IN BRICK AND CMU WALLS.
7. SEE STRUCTURAL DRAWINGS FOR TYPES AND LOCATION OF LINTELS. WHERE NOT SHOWN, PROVIDE LINTELS FOR MECHANICAL, ELECTRICAL AND OTEHR PENETRATIONS WHERE REQUIRED.

FLOOR PLAN KEY NOTES

1. METAL PAN STAIRS WITH RUBBER TREADS, RISERS AND LANDINGS
2. SEE FOOD SERVICE DRAWINGS FOR SERVING LAYOUT, KITCHEN LAYOUT, AND EQUIPMENT INCLUDINGS COOLER AND FREEZER
3. KNOX BOX - RECESSED IN EXTERIOR WALL, COORDINATE EXACT LOCATION WITH OWNER AND FIRE MARSHAL
4. GLASS DISPLAY CASES
5. SHIPS LADDER TO MECHANICAL PLATFORM, 3' WIDE TYP UNO
5A. WALL MOUNTED LADDER TO MECHANICAL PLATFORM, 3' WIDE TYP UNO
6. FURNITURE (N.I.C.) - FOR VENDING, RES. APPLIANCES, AND COPIERS, PROVIDE POWER PER MFR REQMTS
7. METAL UTILITY SHELVING - SEE SPECIFICATIONS
8. KILN AND VENT BY OWNER - COORDINATE MASONRY OPENING FOR VENT AND POWER REQUIREMENTS W/ MFR REQMTS
9. FIXED BASKETBALL HOOP. MAST COLOR TO BE SELECTED BY ARCHITECT.
10. ELECTRIC OPERATED BASKETBALL HOOP. MAST COLOR TO BE SELECTED BY ARCHITECT.
11. TWO TIER BUILT-IN BENCH SEATING, CMU WALL & SOLID SURFACE TOP
12. TEACHING WALL. LOCATE TV ON CORRIDOR SIDE & WHITEBOARD ON EXTERIOR WALL SIDE. DIMENSION IS TO CENTER OF THE TV. TV AND WHITEBOARD ONLY IN SCIENCE ROOMS. REFER TO DETAIL FOR MORE INFORMATION AND INTERIOR ELEVATIONS FOR TACKBOARD INFORMATION. (OWNER PROVIDED DISPLAY TV, COORDINATE OUTLET LOCATION)
13. LOW MASONRY WALL WITH PRE-CAST CAP - SEE SHEET A-520
14. ALUMINUM TRELLIS WITH WOOD GRAIN PATTERN. COLOR TO BE SELECTED FROM MANUF FULL LINE OF PATTERNS AND COLORS.
15. FURRING WITH GYP BOARD FINISH AROUND TEACHING WALL
16. TELESCOPING GYM BLEACHERS - OWNER PROVIDED, COORDINATE POWER REQUIREMENTS
17. MECHANICAL LOUVER - MATCH CW11 SIZE
18. 42" A.F.F. GUARD RAIL - SEE A-421 THRU A-423 FOR DTLS
19. WALL RECESSED FIRE EXTINGUISHER CABINET - SEE A5 SERIES SHEET FOR DETAILS
20. SCIENCE ROOM FE WITH FIRE BLANKET CAB W/ MSDS DISPLAY ABOVE FE
21. SCIENCE ROOM SHOWER AND EYE WASH WITH 3'x3' RECESSED FLOOR SLAB WITH DRAIN
22. UTILITY ROOM MOP SINK WITH SS WALL SPLASH GUARD & MOP HOLDER



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FLOOR PLAN AREA 600 WEST

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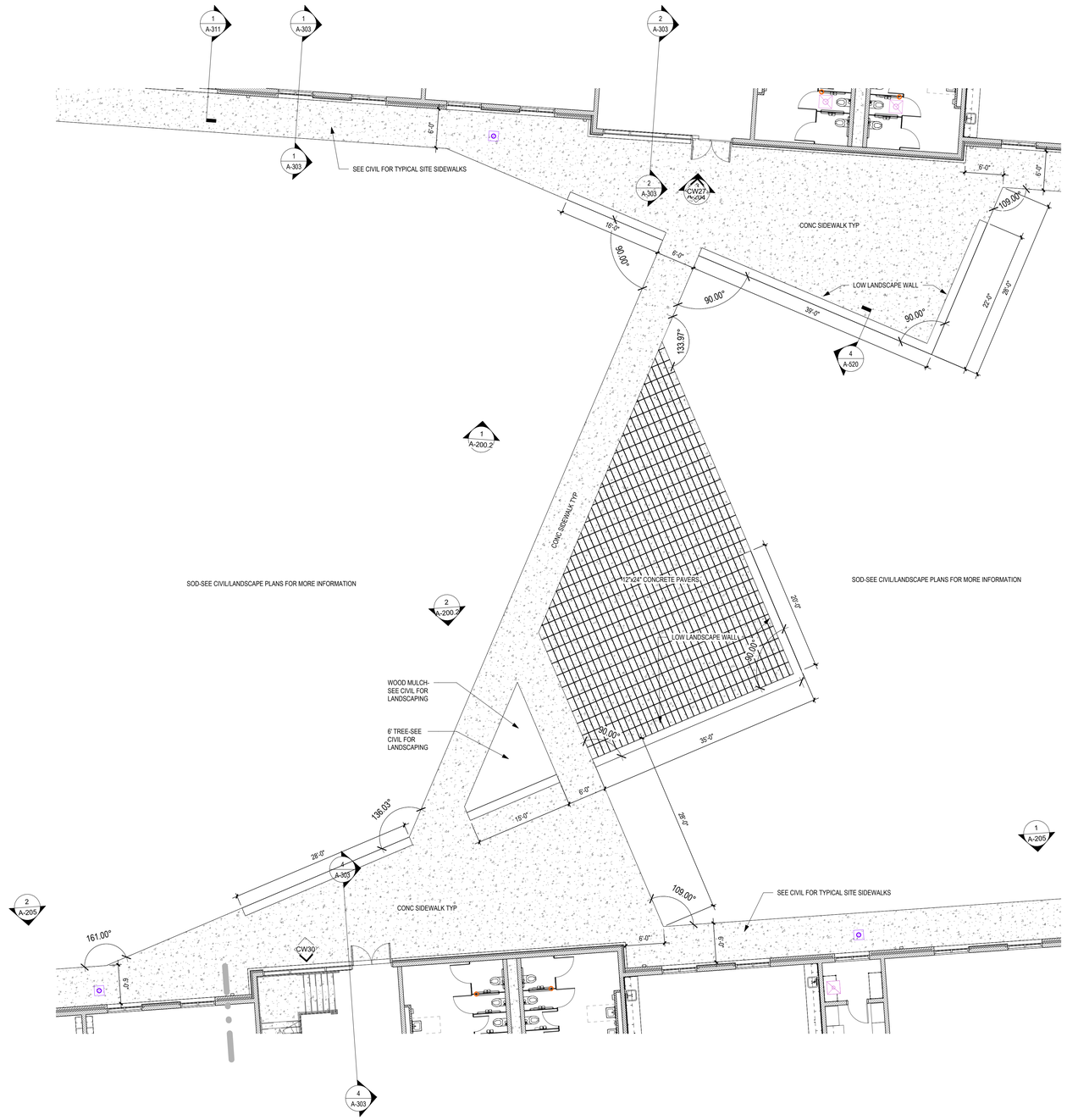

1 A-117 **PARTIAL FIRST FLOOR - COURTYARD PLAN**

SCALE: 1/8" = 1'-0"

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FLOOR PLAN - COURTYARD

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1 A-120.1 **OVERALL REFLECTED CEILING PLAN-FIRST FLOOR**

SCALE: 3/64" = 1'-0"

OVERALL KEY PLAN

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OVERALL CEILING PLAN - FIRST FLOOR

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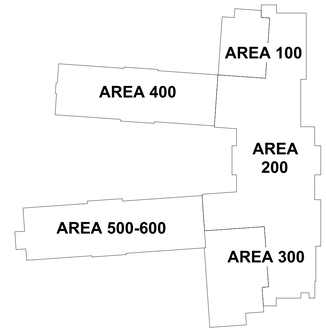
1 A-120.2 **OVERALL REFLECTED CEILING PLAN-SECOND FLOOR**
SCALE: 3/64" = 1'-0"



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OVERALL CEILING PLAN - SECOND FLOOR

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1 A-121 **REFLECTED CEILING PLAN-AREA 100**
SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

CEILING TYPE — CEILING HEIGHT (A 8' - 0")

TYPE	DESCRIPTION
	2' x 2' ACOUSTICAL PANELS
	TYPE "A": TYP. PANELS, WHITE WITH WHITE GRID
	TYPE "B": IMPERVIOUS PANELS, WHITE WITH WHITE GRID
	TYPE "C": BLACK PANELS WITH BLACK GRID
	GYPSUM BOARD CEILING
	TYPE "D": TYP. CEILING SYSTEM, PAINTED
	TYPE "E": TYP. CEILING SYSTEM, PAINTED, EPOXY
	TYPE "F": WOOD GRILLE

	EXTERIOR DOWNLIGHT (CLG MOUTNED) EXTERIOR DOWNLIGHT (WALL MOUNTED)
	LED EXIT SIGN - CEILING MOUNTED LED EXIT SIGN - WALL MOUNTED
	DOWNLIGHT - SEE ELECTRICAL
	DECORATIVE PENDANT
	GYM LIGHTING - SUSPENDED PENDANT
	FLUORESCENT STRIP LIGHT
	LINEAR FIXTURE
	2x4 ACRYLIC LAY-IN
	LINEAR PENDANT
	DIFFUSER - SEE MECHANICAL
	RETURN - SEE MECHANICAL
	DIFFUSER - SEE MECHANICAL
	CEILING ACOUSTICAL DIFFUSER PANEL

GENERAL NOTES

1. REFER TO ELECTRICAL SHEETS FOR LIGHT FIXTURE LOCATIONS, TYPES AND ADDITIONAL INFORMATION.
2. COORDINATE LOCATION OF ACCESS PANELS WITH PLUMBING CONTRACTOR.
3. ALL EXPOSED STRUCTURE, PIPING, DUCT WORK, ELECTRICAL DEVICES, ETC. IN AREAS INDICATED AS EXPOSED STRUCTURE TO BE PAINTED EXCEPT MECHANICAL ROOMS - SEE FINISH PLANS.
4. CONTROL JOINTS ARE NOTED IN GYP CEILINGS AS 'CJ' - CONTROL JOINTS NOT SHOWN TO BE SPACED AT 20' - 0" OC (TYP)
5. EAVE AND CANOPY SOFFITS TO BE 7" FLUSH METAL PANEL SYSTEM.
6. INTERIOR LOUVERS TO BE PAINTED TO MATCH THE WALL OR BULKHEAD COLOR THAT THE LOUVER IS INSTALLED IN.
7. ALL CLASSROOMS TO HAVE SOUND ATTENUATION BATTS ABOVE THE CEILING GRID - PROVIDE 4' - 0" MINIMUM COVERAGE FROM THE PERIMITER WALLS - SEE SPECIFICATIONS.
8. COORDINATE SLOPED CEILINGS TO PROVIDE 2" MINIMUM CLEARANCE OVER TOP OF WINDOW FRAME.

RCP KEY NOTES

1. OPEN TO STRUCTURE ABOVE. DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC WHITE
2. OPEN TO STRUCTURE ABOVE - DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC.: WHITE IN GYMNASIUM, STEEL TRUSSES TO BE PAINTED P2, EXPOSED DUCTS TO BE PAINTED P5; EVERYTHING ABOVE PLATFORM TO BE PAINTED BLACK
3. OPEN TO STRUCTURE ABOVE - DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC.: WHITE IN DINING, STEEL TRUSSES TO BE PAINTED P2, EXPOSED DUCTS TO BE PAINTED P4
4. OPEN TO STRUCTURE ABOVE - DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC.: WHITE IN MEDIA CENTER, COLLABORATION, & OCTOGON. EXPOSED DUCTS TO BE PAINTED P2, WOOD TRUSSES & CLULAMS NOT TO BE PAINTED
5. PRE-MANUFACTURED CANOPY SYSTEM
6. PRE-MANUFACTURED LOUVERED EXTERIOR SUN CONTROL DEVICE
7. ALUMINUM TRELLIS STRUCTURE WITH WOOD GRAIN TEXTURED FINISH
8. KITCHEN HOOD-SEE MECH AND FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE DIMENSIONS OF BULKHEAD WITH MANUF REQUIREMENT.
9. FIXED BASKETBALL HOOP, MAST STRUCTURE PAINTED BLACK
10. ELECTRIC OPERATED BASKETBALL HOOP, MAST STRUCTURE PAINTED BLACK
11. ACCESS PANEL
12. COORDINATE EXACT LOCATION OF THEATRICAL LIGHTING WITH MANUF.
13. OPEN TO STRUCTURE ABOVE
14. STRUCTURE ABOVE CEILING TO BE DRYFOG PAINTED BLACK

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RCP - AREA 100

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1 A-122 REFLECTED CEILING PLAN-AREA 200

SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

CEILING TYPE — CEILING HEIGHT (e.g. A 8' - 0")

TYPE	DESCRIPTION
	2' x 2' ACOUSTICAL PANELS
	TYPE "A": TYP. PANELS, WHITE WITH WHITE GRID
	TYPE "B": IMPERVIOUS PANELS, WHITE WITH WHITE GRID
	TYPE "C": BLACK PANELS WITH BLACK GRID
	GYPSUM BOARD CEILING
	TYPE "D": TYP. CEILING SYSTEM, PAINTED
	TYPE "E": TYP. CEILING SYSTEM, PAINTED, EPOXY
	TYPE "F": WOOD GRILLE

	EXTERIOR DOWNLIGHT (CLG MOUTNED) EXTERIOR DOWNLIGHT (WALL MOUNTED)
	LED EXIT SIGN - CEILING MOUNTED LED EXIT SIGN - WALL MOUNTED
	DOWNLIGHT - SEE ELECTRICAL
	DECORATIVE PENDANT
	GYM LIGHTING - SUSPENDED PENDANT
	FLUORESCENT STRIP LIGHT
	LINEAR FIXTURE
	2x4 ACRYLIC LAY-IN
	LINEAR PENDANT
	DIFFUSER - SEE MECHANICAL
	RETURN - SEE MECHANICAL
	DIFFUSER - SEE MECHANICAL
	CEILING ACOUSTICAL DIFFUSER PANEL

GENERAL NOTES

1. REFER TO ELECTRICAL SHEETS FOR LIGHT FIXTURE LOCATIONS, TYPES AND ADDITIONAL INFORMATION.
2. COORDINATE LOCATION OF ACCESS PANELS WITH PLUMBING CONTRACTOR.
3. ALL EXPOSED STRUCTURE, PIPING, DUCT WORK, ELECTRICAL DEVICES, ETC. IN AREAS INDICATED AS EXPOSED STRUCTURE TO BE PAINTED EXCEPT MECHANICAL ROOMS - SEE FINISH PLANS.
4. CONTROL JOINTS ARE NOTED IN GYP CEILINGS AS 'CJ' - CONTROL JOINTS NOT SHOWN TO BE SPACED AT 20' - 0" OC (TYP)
5. EAVE AND CANOPY SOFFITS TO BE 7" FLUSH METAL PANEL SYSTEM.
6. INTERIOR LOUVERS TO BE PAINTED TO MATCH THE WALL OR BULKHEAD COLOR THAT THE LOUVER IS INSTALLED IN.
7. ALL CLASSROOMS TO HAVE SOUND ATTENUATION BATTS ABOVE THE CEILING GRID - PROVIDE 4' - 0" MINIMUM COVERAGE FROM THE PERIMITER WALLS - SEE SPECIFICATIONS.
8. COORDINATE SLOPED CEILINGS TO PROVIDE 2" MINIMUM CLEARANCE OVER TOP OF WINDOW FRAME.

RCP KEY NOTES

1. OPEN TO STRUCTURE ABOVE. DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC WHITE
2. OPEN TO STRUCTURE ABOVE - DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC.: WHITE IN GYMNASIUM, STEEL TRUSSES TO BE PAINTED P2, EXPOSED DUCTS TO BE PAINTED P5; EVERYTHING ABOVE PLATFORM TO BE PAINTED BLACK
3. OPEN TO STRUCTURE ABOVE - DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC.: WHITE IN DINING, STEEL TRUSSES TO BE PAINTED P2, EXPOSED DUCTS TO BE PAINTED P4
4. OPEN TO STRUCTURE ABOVE - DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC.: WHITE IN MEDIA CENTER, COLLABORATION, & OCTOGON. EXPOSED DUCTS TO BE PAINTED P2, WOOD TRUSSES & GLULAMS NOT TO BE PAINTED
5. PRE-MANUFACTURED CANOPY SYSTEM
6. PRE-MANUFACTURED LOUVERED EXTERIOR SUN CONTROL DEVICE
7. ALUMINUM TRELLIS STRUCTURE WITH WOOD GRAIN TEXTURED FINISH
8. KITCHEN HOOD-SEE MECH AND FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE DIMENSIONS OF BULKHEAD WITH MANUF REQUIREMENT.
9. FIXED BASKETBALL HOOP, MAST STRUCTURE PAINTED BLACK
10. ELECTRIC OPERATED BASKETBALL HOOP, MAST STRUCTURE PAINTED BLACK
11. ACCESS PANEL
12. COORDINATE EXACT LOCATION OF THEATRICAL LIGHTING WITH MANUF.
13. OPEN TO STRUCTURE ABOVE
14. STRUCTURE ABOVE CEILING TO BE DRYFOG PAINTED BLACK

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RCP - AREA 200

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REFLECTED CEILING PLAN LEGEND

CEILING TYPE — CEILING HEIGHT (e.g. A | 8' - 0")

TYPE	DESCRIPTION
	2' x 2' ACOUSTICAL PANELS
	TYPE "A": TYP. PANELS, WHITE WITH WHITE GRID
	TYPE "B": IMPERVIOUS PANELS, WHITE WITH WHITE GRID
	TYPE "C": BLACK PANELS WITH BLACK GRID
	GYPSUM BOARD CEILING
	TYPE "D": TYP. CEILING SYSTEM, PAINTED
	TYPE "E": TYP. CEILING SYSTEM, PAINTED, EPOXY
	TYPE "F": WOOD GRILLE

	EXTERIOR DOWNLIGHT (CLG MOUTNED) EXTERIOR DOWNLIGHT (WALL MOUNTED)
	LED EXIT SIGN - CEILING MOUNTED LED EXIT SIGN - WALL MOUNTED
	DOWNLIGHT - SEE ELECTRICAL
	DECORATIVE PENDANT
	GYM LIGHTING - SUSPENDED PENDANT
	FLUORESCENT STRIP LIGHT
	LINEAR FIXTURE
	2x4 ACRYLIC LAY-IN
	LINEAR PENDANT
	DIFFUSER - SEE MECHANICAL
	RETURN - SEE MECHANICAL
	DIFFUSER - SEE MECHANICAL
	CEILING ACOUSTICAL DIFFUSER PANEL

GENERAL NOTES

1. REFER TO ELECTRICAL SHEETS FOR LIGHT FIXTURE LOCATIONS, TYPES AND ADDITIONAL INFORMATION.
2. COORDINATE LOCATION OF ACCESS PANELS WITH PLUMBING CONTRACTOR.
3. ALL EXPOSED STRUCTURE, PIPING, DUCT WORK, ELECTRICAL DEVICES, ETC. IN AREAS INDICATED AS EXPOSED STRUCTURE TO BE PAINTED EXCEPT MECHANICAL ROOMS - SEE FINISH PLANS.
4. CONTROL JOINTS ARE NOTED IN GYP CEILINGS AS 'C.J' - CONTROL JOINTS NOT SHOWN TO BE SPACED AT 20' - 0" OC (TYP)
5. EAVE AND CANOPY SOFFITS TO BE 7" FLUSH METAL PANEL SYSTEM.
6. INTERIOR LOUVERS TO BE PAINTED TO MATCH THE WALL OR BULKHEAD COLOR THAT THE LOUVER IS INSTALLED IN.
7. ALL CLASSROOMS TO HAVE SOUND ATTENUATION BATTS ABOVE THE CEILING GRID - PROVIDE 4' - 0" MINIMUM COVERAGE FROM THE PERIMITER WALLS - SEE SPECIFICATIONS.
8. COORDINATE SLOPED CEILINGS TO PROVIDE 2" MINIMUM CLEARANCE OVER TOP OF WINDOW FRAME.

RCP KEY NOTES

1. OPEN TO STRUCTURE ABOVE. DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC WHITE
2. OPEN TO STRUCTURE ABOVE - DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC.: WHITE IN GYMNASIUM, STEEL TRUSSES TO BE PAINTED P2, EXPOSED DUCTS TO BE PAINTED P5; EVERYTHING ABOVE PLATFORM TO BE PAINTED BLACK
3. OPEN TO STRUCTURE ABOVE - DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC.: WHITE IN DINING, STEEL TRUSSES TO BE PAINTED P2, EXPOSED DUCTS TO BE PAINTED P4
4. OPEN TO STRUCTURE ABOVE - DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC.: WHITE IN MEDIA CENTER, COLLABORATION, & OCTOGON. EXPOSED DUCTS TO BE PAINTED P2, WOOD TRUSSES & GLULAMS NOT TO BE PAINTED
5. PRE-MANUFACTURED CANOPY SYSTEM
6. PRE-MANUFACTURED LOUVERED EXTERIOR SUN CONTROL DEVICE
7. ALUMINUM TRELLIS STRUCTURE WITH WOOD GRAIN TEXTURED FINISH
8. KITCHEN HOOD-SEE MECH AND FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE DIMENSIONS OF BULKHEAD WITH MANUF REQUIREMENT.
9. FIXED BASKETBALL HOOP, MAST STRUCTURE PAINTED BLACK
10. ELECTRIC OPERATED BASKETBALL HOOP, MAST STRUCTURE PAINTED BLACK
11. ACCESS PANEL
12. COORDINATE EXACT LOCATION OF THEATRICAL LIGHTING WITH MANUF.
13. OPEN TO STRUCTURE ABOVE
14. STRUCTURE ABOVE CEILING TO BE DRYFOG PAINTED BLACK.

1 / A-123 **REFLECTED CEILING PLAN-AREA 300**
SCALE: 1/8" = 1'-0"

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ROBERT W. FERRELL SEAL 050676 11/8/24 NORTH CAROLINA RALEIGH

CONSTRUCTION DOCUMENTS

HARNETT COUNTY SCHOOLS

FLATWOODS MIDDLE SCHOOL

3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

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RCP - AREA 300

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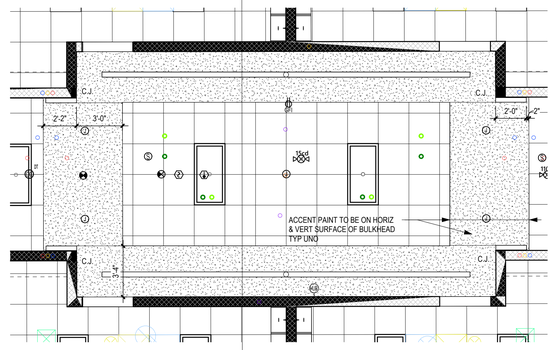
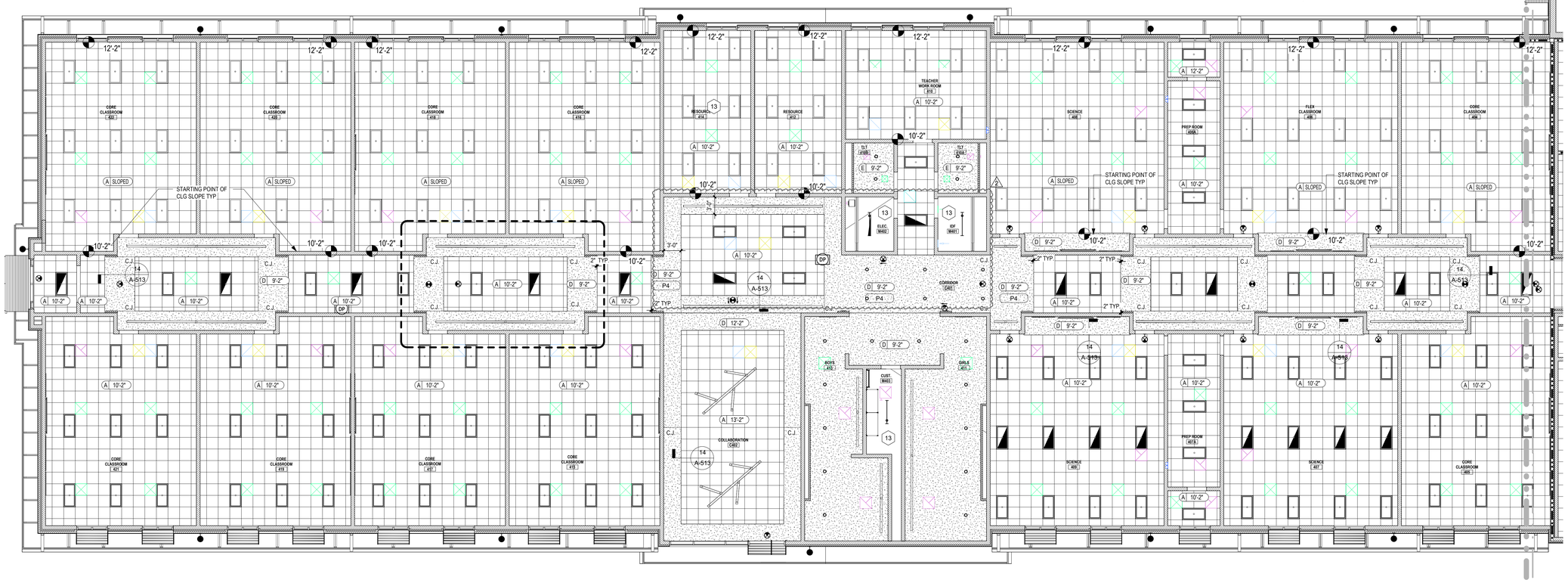


2 / A-124 **AREA 400 CORRIDOR ENLARGED CLG PLAN**
SCALE: 1/4" = 1'-0"
5 / A-303



1 / A-124 **REFLECTED CEILING PLAN-AREA 400**
SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

CEILING TYPE — CEILING HEIGHT (e.g. A 8' - 0")

TYPE	DESCRIPTION
	2' x 2' ACOUSTICAL PANELS
	TYPE "A": TYP. PANELS, WHITE WITH WHITE GRID
	TYPE "B": IMPERVIOUS PANELS, WHITE WITH WHITE GRID
	TYPE "C": BLACK PANELS WITH BLACK GRID
	GYPSUM BOARD CEILING
	TYPE "D": TYP. CEILING SYSTEM, PAINTED
	TYPE "E": TYP. CEILING SYSTEM, PAINTED, EPOXY
	TYPE "F": WOOD GRILLE

	EXTERIOR DOWNLIGHT (CLG MOUTNED) EXTERIOR DOWNLIGHT (WALL MOUNTED)
	LED EXIT SIGN - CEILING MOUNTED LED EXIT SIGN - WALL MOUNTED
	DOWNLIGHT - SEE ELECTRICAL
	DECORATIVE PENDANT
	GYM LIGHTING - SUSPENDED PENDANT
	FLUORESCENT STRIP LIGHT
	LINEAR FIXTURE
	2x4 ACRYLIC LAY-IN
	LINEAR PENDANT
	DIFFUSER - SEE MECHANICAL
	RETURN - SEE MECHANICAL
	DIFFUSER - SEE MECHANICAL
	CEILING ACOUSTICAL DIFFUSER PANEL

GENERAL NOTES

1. REFER TO ELECTRICAL SHEETS FOR LIGHT FIXTURE LOCATIONS, TYPES AND ADDITIONAL INFORMATION.
2. COORDINATE LOCATION OF ACCESS PANELS WITH PLUMBING CONTRACTOR.
3. ALL EXPOSED STRUCTURE, PIPING, DUCT WORK, ELECTRICAL DEVICES, ETC. IN AREAS INDICATED AS EXPOSED STRUCTURE TO BE PAINTED EXCEPT MECHANICAL ROOMS - SEE FINISH PLANS.
4. CONTROL JOINTS ARE NOTED IN GYP CEILINGS AS "CJ - CONTROL JOINTS NOT SHOWN TO BE SPACED AT 20' - 0" OC (TYP)
5. EAVE AND CANOPY SOFFITS TO BE 7" FLUSH METAL PANEL SYSTEM.
6. INTERIOR LOUVERS TO BE PAINTED TO MATCH THE WALL OR BULKHEAD COLOR THAT THE LOUVER IS INSTALLED IN.
7. ALL CLASSROOMS TO HAVE SOUND ATTENUATION BATTS ABOVE THE CEILING GRID - PROVIDE 4' - 0" MINIMUM COVERAGE FROM THE PERIMITER WALLS - SEE SPECIFICATIONS.
8. COORDINATE SLOPED CEILINGS TO PROVIDE 2" MINIMUM CLEARANCE OVER TOP OF WINDOW FRAME.

RCP KEY NOTES

1. OPEN TO STRUCTURE ABOVE. DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC WHITE
2. OPEN TO STRUCTURE ABOVE - DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC.: WHITE IN GYMNASIUM, STEEL TRUSSES TO BE PAINTED P2, EXPOSED DUCTS TO BE PAINTED P5, EVERYTHING ABOVE PLATFORM TO BE PAINTED BLACK
3. OPEN TO STRUCTURE ABOVE - DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC.: WHITE IN DINING, STEEL TRUSSES TO BE PAINTED P2, EXPOSED DUCTS TO BE PAINTED P4
4. OPEN TO STRUCTURE ABOVE - DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC.: WHITE IN MEDIA CENTER, COLLABORATION, & OCTOGON. EXPOSED DUCTS TO BE PAINTED P2, WOOD TRUSSES & GLULAMS NOT TO BE PAINTED
5. PRE-MANUFACTURED CANOPY SYSTEM
6. PRE-MANUFACTURED LOUVERED EXTERIOR SUN CONTROL DEVICE
7. ALUMINUM TRELLIS STRUCTURE WITH WOOD GRAIN TEXTURED FINISH
8. KITCHEN HOOD-SEE MECH AND FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE DIMENSIONS OF BULKHEAD WITH MANUF REQUIREMENT.
9. FIXED BASKETBALL HOOP, MAST STRUCTURE PAINTED BLACK
10. ELECTRIC OPERATED BASKETBALL HOOP, MAST STRUCTURE PAINTED BLACK
11. ACCESS PANEL
12. COORDINATE EXACT LOCATION OF THEATRICAL LIGHTING WITH MANUF.
13. OPEN TO STRUCTURE ABOVE
14. STRUCTURE ABOVE CEILING TO BE DRYFOG PAINTED BLACK

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FLATWOODS MIDDLE SCHOOL
3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description
2	12-13-24	CD REVISIONS

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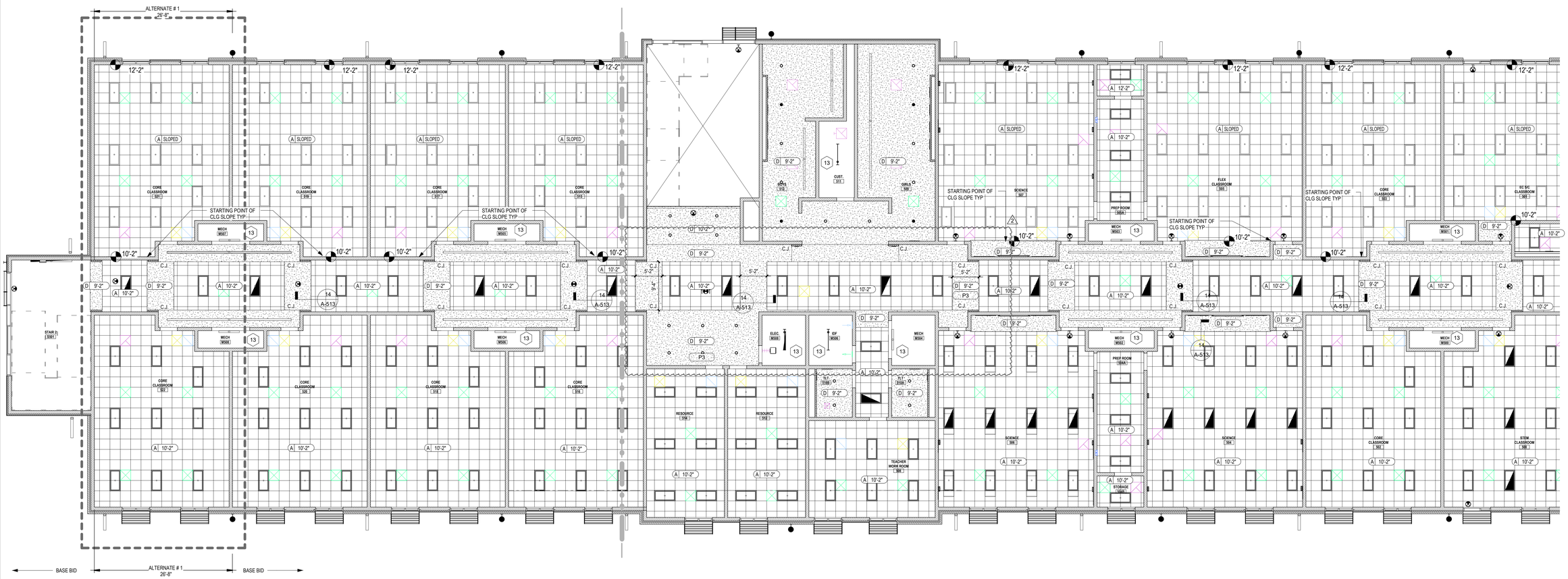

REFLECTED CEILING PLAN-AREA 500

1 / A-125

SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

CEILING TYPE — A — CEILING HEIGHT — A 8' - 0"

TYPE	DESCRIPTION
	2' x 2' ACOUSTICAL PANELS
	TYPE "A": TYP. PANELS, WHITE WITH WHITE GRID
	TYPE "B": IMPERVIOUS PANELS, WHITE WITH WHITE GRID
	TYPE "C": BLACK PANELS WITH BLACK GRID
	GYPSUM BOARD CEILING
	TYPE "D": TYP. CEILING SYSTEM, PAINTED
	TYPE "E": TYP. CEILING SYSTEM, PAINTED, EPOXY
	TYPE "F": WOOD GRILLE

	EXTERIOR DOWNLIGHT (CLG MOUTNED) EXTERIOR DOWNLIGHT (WALL MOUNTED)
	LED EXIT SIGN - CEILING MOUNTED LED EXIT SIGN - WALL MOUNTED
	DOWNLIGHT - SEE ELECTRICAL
	DECORATIVE PENDANT
	GYM LIGHTING - SUSPENDED PENDANT
	FLUORESCENT STRIP LIGHT
	LINEAR FIXTURE
	2x4 ACRYLIC LAY-IN
	LINEAR PENDANT
	DIFFUSER - SEE MECHANICAL
	RETURN - SEE MECHANICAL
	DIFFUSER - SEE MECHANICAL
	CEILING ACOUSTICAL DIFFUSER PANEL

GENERAL NOTES

1. REFER TO ELECTRICAL SHEETS FOR LIGHT FIXTURE LOCATIONS, TYPES AND ADDITIONAL INFORMATION.
2. COORDINATE LOCATION OF ACCESS PANELS WITH PLUMBING CONTRACTOR.
3. ALL EXPOSED STRUCTURE, PIPING, DUCT WORK, ELECTRICAL DEVICES, ETC. IN AREAS INDICATED AS EXPOSED STRUCTURE TO BE PAINTED EXCEPT MECHANICAL ROOMS - SEE FINISH PLANS.
4. CONTROL JOINTS ARE NOTED IN GYP CEILINGS AS 'CJ' - CONTROL JOINTS NOT SHOWN TO BE SPACED AT 20' - 0" OC (TYP)
5. EAVE AND CANOPY SOFFITS TO BE 7" FLUSH METAL PANEL SYSTEM.
6. INTERIOR LOUVERS TO BE PAINTED TO MATCH THE WALL OR BULKHEAD COLOR THAT THE LOUVER IS INSTALLED IN.
7. ALL CLASSROOMS TO HAVE SOUND ATTENUATION BATTS ABOVE THE CEILING GRID - PROVIDE 4' - 0" MINIMUM COVERAGE FROM THE PERIMITER WALLS - SEE SPECIFICATIONS.
8. COORDINATE SLOPED CEILINGS TO PROVIDE 2" MINIMUM CLEARANCE OVER TOP OF WINDOW FRAME.

RCP KEY NOTES

1. OPEN TO STRUCTURE ABOVE. DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC WHITE
2. OPEN TO STRUCTURE ABOVE - DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC.: WHITE IN GYMNASIUM, STEEL TRUSSES TO BE PAINTED P2, EXPOSED DUCTS TO BE PAINTED P5; EVERYTHING ABOVE PLATFORM TO BE PAINTED BLACK
3. OPEN TO STRUCTURE ABOVE - DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC.: WHITE IN DINING, STEEL TRUSSES TO BE PAINTED P2, EXPOSED DUCTS TO BE PAINTED P4
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5. PRE-MANUFACTURED CANOPY SYSTEM
6. PRE-MANUFACTURED LOUVERED EXTERIOR SUN CONTROL DEVICE
7. ALUMINUM TRELLIS STRUCTURE WITH WOOD GRAIN TEXTURED FINISH
8. KITCHEN HOOD-SEE MECH AND FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE DIMENSIONS OF BULKHEAD WITH MANUF REQUIREMENT.
9. FIXED BASKETBALL HOOP, MAST STRUCTURE PAINTED BLACK.
10. ELECTRIC OPERATED BASKETBALL HOOP, MAST STRUCTURE PAINTED BLACK
11. ACCESS PANEL
12. COORDINATE EXACT LOCATION OF THEATRICAL LIGHTING WITH MANUF.
13. OPEN TO STRUCTURE ABOVE
14. STRUCTURE ABOVE CEILING TO BE DRYFOG PAINTED BLACK

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CONSTRUCTION DOCUMENTS

HARNETT COUNTY SCHOOLS

FLATWOODS MIDDLE SCHOOL

3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description
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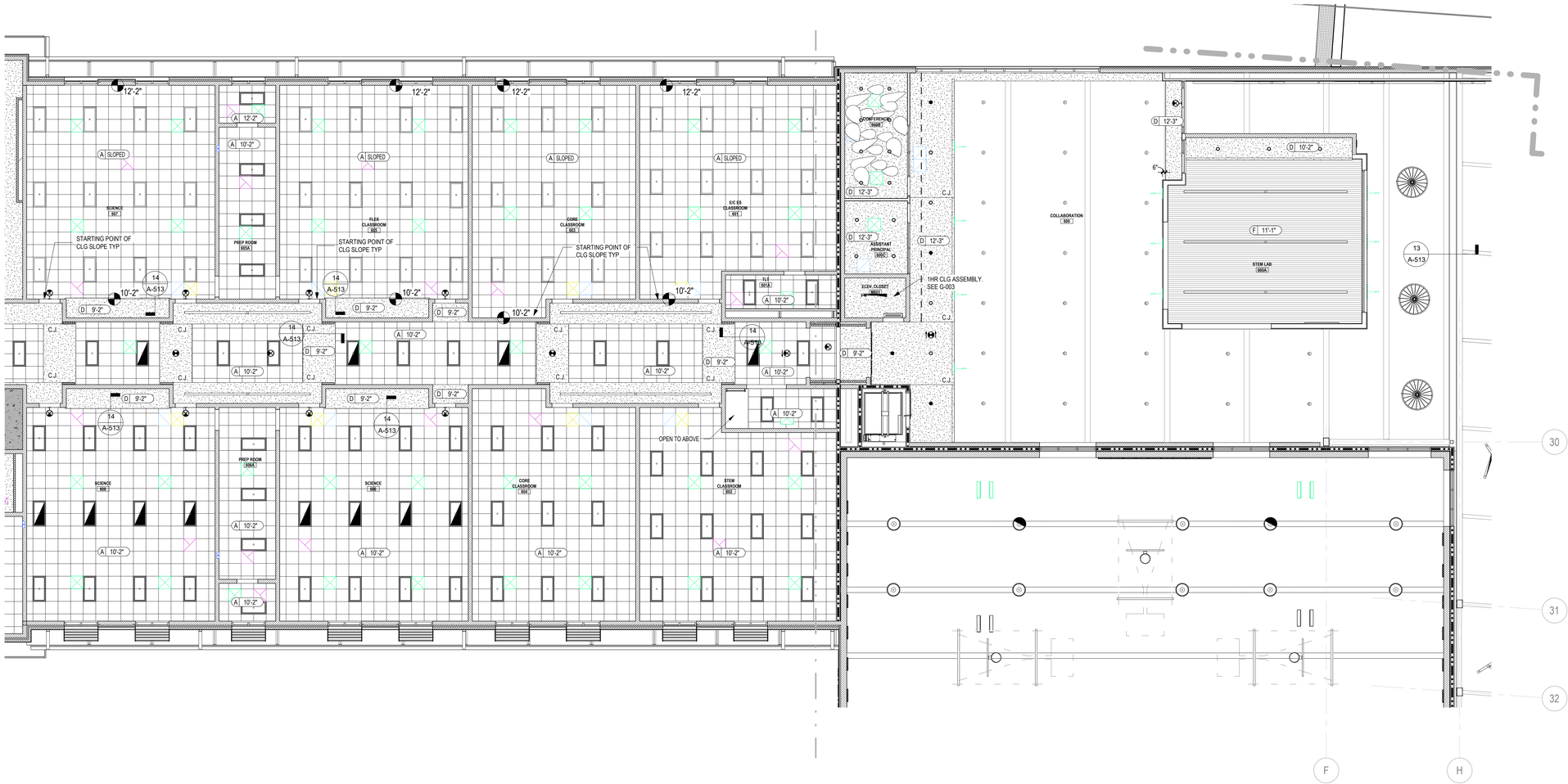

1 A-126.1 **REFLECTED CEILING PLAN-AREA 600 EAST**
SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

CEILING TYPE — CEILING HEIGHT (A | 8' - 0")

TYPE	DESCRIPTION
	2' x 2' ACOUSTICAL PANELS
	TYPE "A": TYP. PANELS, WHITE WITH WHITE GRID
	TYPE "B": IMPERVIOUS PANELS, WHITE WITH WHITE GRID
	TYPE "C": BLACK PANELS WITH BLACK GRID
	GYPSUM BOARD CEILING
	TYPE "D": TYP. CEILING SYSTEM, PAINTED
	TYPE "E": TYP. CEILING SYSTEM, PAINTED, EPOXY
	TYPE "F": WOOD GRILLE

	EXTERIOR DOWNLIGHT (CLG MOUTNED) EXTERIOR DOWNLIGHT (WALL MOUNTED)
	LED EXIT SIGN - CEILING MOUNTED LED EXIT SIGN - WALL MOUNTED
	DOWNLIGHT - SEE ELECTRICAL
	DECORATIVE PENDANT
	GYM LIGHTING - SUSPENDED PENDANT
	FLUORESCENT STRIP LIGHT
	LINEAR FIXTURE
	2x4 ACRYLIC LAY-IN
	LINEAR PENDANT
	DIFFUSER - SEE MECHANICAL
	RETURN - SEE MECHANICAL
	DIFFUSER - SEE MECHANICAL
	CEILING ACOUSTICAL DIFFUSER PANEL

GENERAL NOTES

1. REFER TO ELECTRICAL SHEETS FOR LIGHT FIXTURE LOCATIONS, TYPES AND ADDITIONAL INFORMATION.
2. COORDINATE LOCATION OF ACCESS PANELS WITH PLUMBING CONTRACTOR.
3. ALL EXPOSED STRUCTURE, PIPING, DUCT WORK, ELECTRICAL DEVICES, ETC. IN AREAS INDICATED AS EXPOSED STRUCTURE TO BE PAINTED EXCEPT MECHANICAL ROOMS - SEE FINISH PLANS.
4. CONTROL JOINTS ARE NOTED IN CYP CEILINGS AS 'C.J' - CONTROL JOINTS NOT SHOWN TO BE SPACED AT 20' - 0" OC (TYP)
5. EAVE AND CANOPY SOFFITS TO BE 7" FLUSH METAL PANEL SYSTEM.
6. INTERIOR LOUVERS TO BE PAINTED TO MATCH THE WALL OR BULKHEAD COLOR THAT THE LOUVER IS INSTALLED IN.
7. ALL CLASSROOMS TO HAVE SOUND ATTENUATION BATTS ABOVE THE CEILING GRID - PROVIDE 4' - 0" MINIMUM COVERAGE FROM THE PERIMITER WALLS - SEE SPECIFICATIONS.
8. COORDINATE SLOPED CEILINGS TO PROVIDE 2" MINIMUM CLEARANCE OVER TOP OF WINDOW FRAME.

RCP KEY NOTES

1. OPEN TO STRUCTURE ABOVE. DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC WHITE
2. OPEN TO STRUCTURE ABOVE - DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC.: WHITE IN GYMNASIUM, STEEL TRUSSES TO BE PAINTED P2, EXPOSED DUCTS TO BE PAINTED P5; EVERYTHING ABOVE PLATFORM TO BE PAINTED BLACK
3. OPEN TO STRUCTURE ABOVE - DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC.: WHITE IN DINING, STEEL TRUSSES TO BE PAINTED P2, EXPOSED DUCTS TO BE PAINTED P4
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5. PRE-MANUFACTURED CANOPY SYSTEM
6. PRE-MANUFACTURED LOUVERED EXTERIOR SUN CONTROL DEVICE
7. ALUMINUM TRELLIS STRUCTURE WITH WOOD GRAIN TEXTURED FINISH
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12. COORDINATE EXACT LOCATION OF THEATRICAL LIGHTING WITH MANUF.
13. OPEN TO STRUCTURE ABOVE
14. STRUCTURE ABOVE CEILING TO BE DRYFOG PAINTED BLACK

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FLATWOODS MIDDLE SCHOOL

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ENERGY STAR PARTNER

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RCP - AREA 600 EAST

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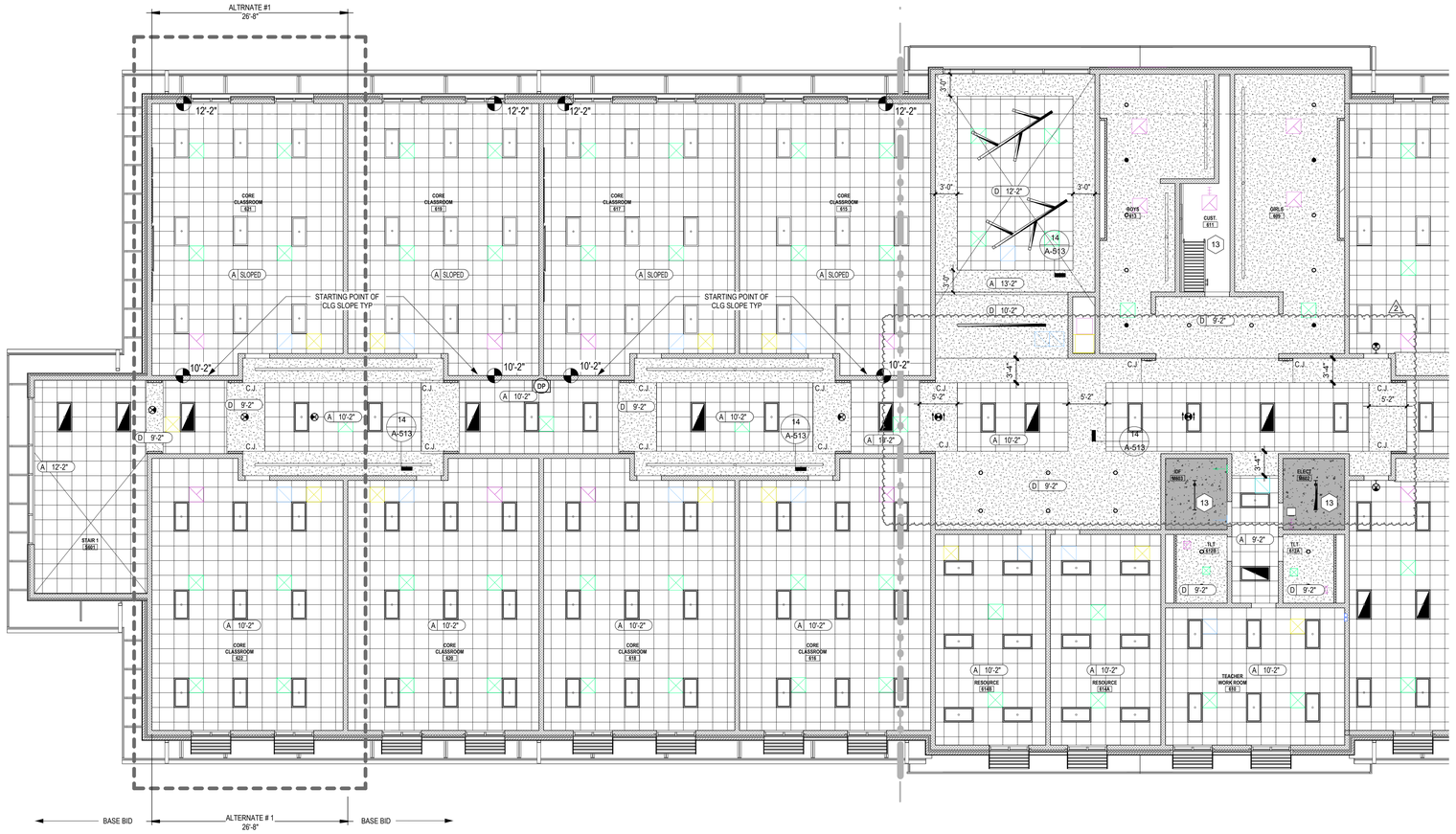

1 A-126.2 **REFLECTED CEILING PLAN-AREA 600 WEST**

SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

CEILING TYPE — A — CEILING HEIGHT — 8' - 0"

TYPE	DESCRIPTION
	2' x 2' ACOUSTICAL PANELS
	TYPE "A": TYP. PANELS, WHITE WITH WHITE GRID
	TYPE "B": IMPERVIOUS PANELS, WHITE WITH WHITE GRID
	TYPE "C": BLACK PANELS WITH BLACK GRID
	GYPSUM BOARD CEILING
	TYPE "D": TYP. CEILING SYSTEM, PAINTED
	TYPE "E": TYP. CEILING SYSTEM, PAINTED, EPOXY
	TYPE "F": WOOD GRILLE

	EXTERIOR DOWNLIGHT (CLG MOUTNED) EXTERIOR DOWNLIGHT (WALL MOUNTED)
	LED EXIT SIGN - CEILING MOUNTED LED EXIT SIGN - WALL MOUNTED
	DOWNLIGHT - SEE ELECTRICAL
	DECORATIVE PENDANT
	GYM LIGHTING - SUSPENDED PENDANT
	FLUORESCENT STRIP LIGHT
	LINEAR FIXTURE
	2x4 ACRYLIC LAY-IN
	LINEAR PENDANT
	DIFFUSER - SEE MECHANICAL
	RETURN - SEE MECHANICAL
	DIFFUSER - SEE MECHANICAL
	CEILING ACOUSTICAL DIFFUSER PANEL

GENERAL NOTES

1. REFER TO ELECTRICAL SHEETS FOR LIGHT FIXTURE LOCATIONS, TYPES AND ADDITIONAL INFORMATION.
2. COORDINATE LOCATION OF ACCESS PANELS WITH PLUMBING CONTRACTOR.
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4. CONTROL JOINTS ARE NOTED IN GYP CEILINGS AS "CJ" - CONTROL JOINTS NOT SHOWN TO BE SPACED AT 20' - 0" OC (TYP)
5. EAVE AND CANOPY SOFFITS TO BE 7" FLUSH METAL PANEL SYSTEM.
6. INTERIOR LOUVERS TO BE PAINTED TO MATCH THE WALL OR BULKHEAD COLOR THAT THE LOUVER IS INSTALLED IN.
7. ALL CLASSROOMS TO HAVE SOUND ATTENUATION BATTS ABOVE THE CEILING GRID - PROVIDE 4' - 0" MINIMUM COVERAGE FROM THE PERIMITER WALLS - SEE SPECIFICATIONS.
8. COORDINATE SLOPED CEILINGS TO PROVIDE 2" MINIMUM CLEARANCE OVER TOP OF WINDOW FRAME.

RCP KEY NOTES

1. OPEN TO STRUCTURE ABOVE. DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC WHITE
2. OPEN TO STRUCTURE ABOVE - DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC.: WHITE IN GYMNASIUM, STEEL TRUSSES TO BE PAINTED P2, EXPOSED DUCTS TO BE PAINTED P5; EVERYTHING ABOVE PLATFORM TO BE PAINTED BLACK
3. OPEN TO STRUCTURE ABOVE - DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC.: WHITE IN DINING, STEEL TRUSSES TO BE PAINTED P2, EXPOSED DUCTS TO BE PAINTED P4
4. OPEN TO STRUCTURE ABOVE - DRYFOG PAINT ALL EXPOSED DECKING, CONDUIT, ELECTRICAL DEVICES, ETC.: WHITE IN MEDIA CENTER, COLLABORATION, & OCTOGON. EXPOSED DUCTS TO BE PAINTED P2, WOOD TRUSSES & GLULAMS NOT TO BE PAINTED
5. PRE-MANUFACTURED CANOPY SYSTEM
6. PRE-MANUFACTURED LOUVERED EXTERIOR SUN CONTROL DEVICE
7. ALUMINUM TRELLIS STRUCTURE WITH WOOD GRAIN TEXTURED FINISH
8. KITCHEN HOOD-SEE MECH AND FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE DIMENSIONS OF BULKHEAD WITH MANUF REQUIREMENT.
9. FIXED BASKETBALL HOOP, MAST STRUCTURE PAINTED BLACK
10. ELECTRIC OPERATED BASKETBALL HOOP, MAST STRUCTURE PAINTED BLACK
11. ACCESS PANEL
12. COORDINATE EXACT LOCATION OF THEATRICAL LIGHTING WITH MANUF.
13. OPEN TO STRUCTURE ABOVE
14. STRUCTURE ABOVE CEILING TO BE DRYFOG PAINTED BLACK

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ENERGY STAR PARTNER

No.	Date	Description
2	12-13-24	CD REVISIONS

ISSUE DATE: 11/08/24

PROJECT #: 02208.000
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RCP - AREA 600 WEST

A-126.2

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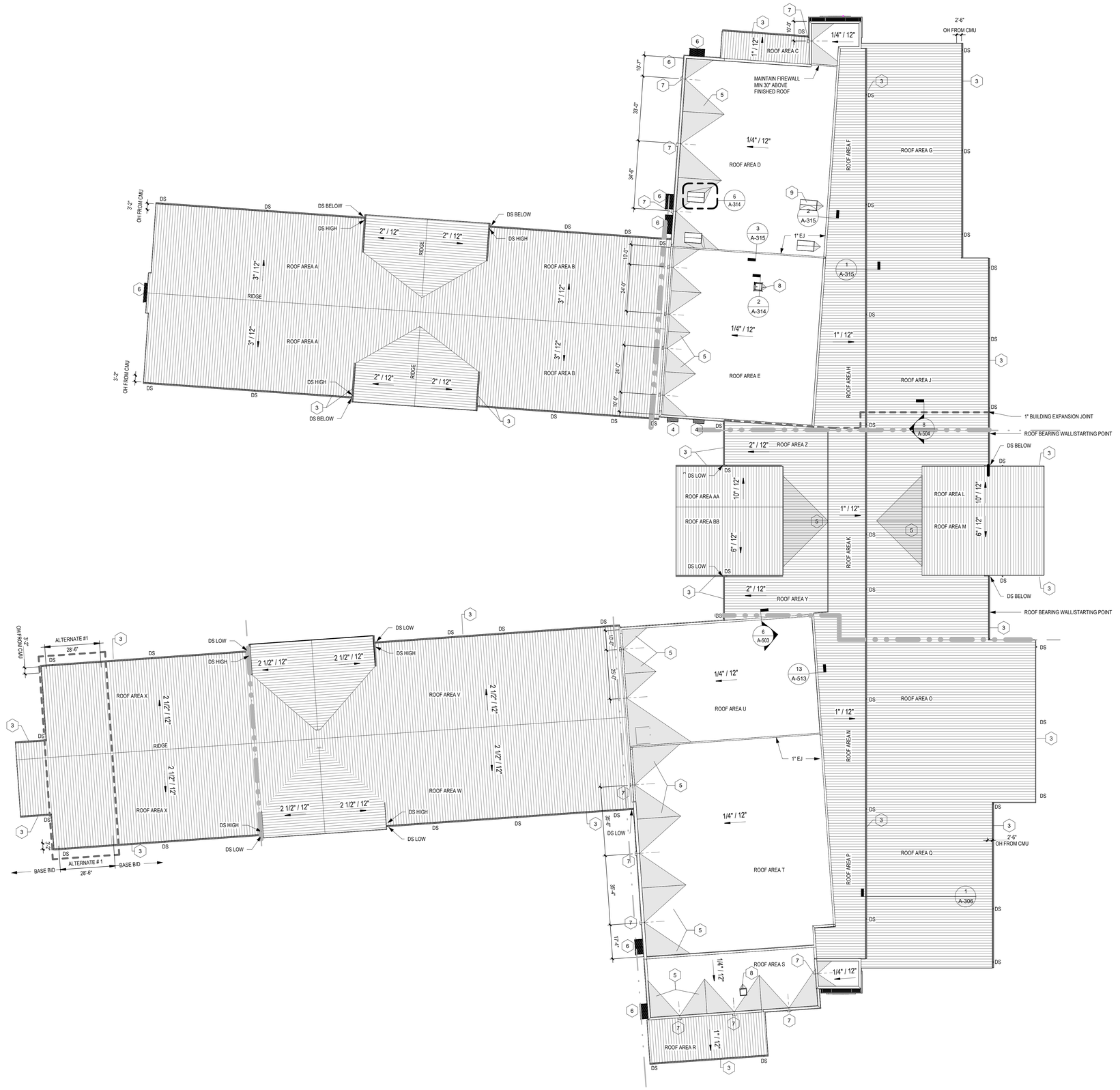

1 A-131 **OVERALL ROOF PLAN**
SCALE: 3/64" = 1'-0"

ROOF PLAN LEGEND

SYMBOL/ABB.	DESCRIPTION
DS	4" x 6" DOWNSPOUT
o	VENT PIPE ROOF PENETRATION - SEE SHEET A-521

GENERAL NOTES:

1. SEE PLUMBING AND MECHANICAL DRAWINGS FOR ROOF MOUNTED EQUIPMENT AND ROOF PENETRATIONS.
2. TYP OVERHANGS ARE 3'-2" AT MASONRY VENEER LOCATIONS, 2'-6" AT METAL WALL PANEL VENEER LOCATIONS. DIMENSION TAKEN FROM FACE OF EXTERIOR CMU BEARING WALL.

DRAINAGE CALCS:

SMACNA TABLE 1-2: RAINFALL DATA AND DRAINAGE FACTORS
RALEIGH NC - 7.3" INTENSITY = 160 SQFT ROOF AREA / SQIN DOWNSPOUT
4" x 6" DOWNSPOUT = 24 SQIN / 3,840 SQFT OF ROOF AREA PER DOWNSPOUT

-ROOF AREA A: 6,311 SQFT=1.7 DS REQ'D / 3 PROVIDED
-ROOF AREA B: 5,670 SQFT PITCHED ROOF+3,293 FLAT ROOF AREA FROM ABOVE=2.3 DS REQ'D / 4 PROVIDED
-ROOF AREA C: 829 SQFT=0.2 DS REQ'D / 1 PROVIDED
-ROOF AREA D: 7,270 SQFT=1.9 DS REQ'D / 3 PROVIDED
-ROOF AREA E: 6,585 SQFT=1.7 DS REQ'D / 4 PROVIDED
-ROOF AREA F: 1,731 SQFT=0.5 DS REQ'D / 2 PROVIDED
-ROOF AREA G: 5,205 SQFT PITCHED ROOF+1,731 PITCHED ROOF AREA FROM ABOVE=1.8 DS REQ'D / 3 PROVIDED
-ROOF AREA H: 2,004 SQFT=0.5 DS REQ'D / 2 PROVIDED
-ROOF AREA J: 7,386 SQFT PITCHED ROOF+2,945 PITCHED ROOF AREA FROM ABOVE=2.7 DS REQ'D / 4 PROVIDED
-ROOF AREA K: 1,782 SQFT=0.5 DS REQ'D / 1 PROVIDED
-ROOF AREA L: 1,332 SQFT=0.3 DS REQ'D / 1 PROVIDED
-ROOF AREA M: 2,057 SQFT=0.5 DS REQ'D / 1 PROVIDED
-ROOF AREA N: 2,187 SQFT=0.6 DS REQ'D / 2 PROVIDED
-ROOF AREA O: 8,618 SQFT PITCHED ROOF+3,087 PITCHED ROOF AREA FROM ABOVE=3 DS REQ'D / 3 PROVIDED
-ROOF AREA P: 1,556 SQFT=0.4 DS REQ'D / 2 PROVIDED
-ROOF AREA Q: 5,382 SQFT PITCHED ROOF+1,556 PITCHED ROOF AREA FROM ABOVE=1.8 DS REQ'D / 3 PROVIDED
-ROOF AREA R: 886 SQFT PITCHED ROOF+862 FLAT ROOF AREA FROM ABOVE=0.5 DS REQ'D / 2 PROVIDED
-ROOF AREA S: 2,587 SQFT=0.7 DS REQ'D / 3 PROVIDED
-ROOF AREA T: 10,163 SQFT=2.7 DS REQ'D / 3 PROVIDED
-ROOF AREA U: 5,789 SQFT=1.5 DS REQ'D / 3 PROVIDED
-ROOF AREA V: 7,449 SQFT PITCHED ROOF+5,789 FLAT ROOF AREA FROM ABOVE=3.4 DS REQ'D / 4 PROVIDED
-ROOF AREA W: 7,449 SQFT PITCHED ROOF+10,163 FLAT ROOF AREA FROM ABOVE=4.6 DS REQ'D / 5 PROVIDED
-ROOF AREA X: 6,708 SQFT=1.7 DS REQ'D / 3 PROVIDED
-ROOF AREA Y: 1,735 SQFT=0.5 DS REQ'D / 2 PROVIDED
-ROOF AREA Z: 1,735 SQFT=0.5 DS REQ'D / 2 PROVIDED
-ROOF AREA AA: 1,181 SQFT=0.3 DS REQ'D / 1 PROVIDED
-ROOF AREA BB: 1,992 SQFT=0.5 DS REQ'D / 1 PROVIDED

ROOF PLAN KEY NOTES

1. NOT USED
2. PLUMBING VENT - SEE PLUMBING DRAWINGS FOR SIZE
3. CONTINUOUS 6" x 6" GUTTER
4. MANUFACTURED ALUMINUM SUNCREEN AT WINDOW/DOOR BELOW
5. TAPERED ROOF INSULATION CRICKETS FOR DRAINAGE
6. MANUFACTURED ALUMINUM CANOPY - BELOW
7. COLLECTOR HEAD WITH WALL SCUPPER AND DOWNSPOUT
8. ROOF ACCESS HATCH WITH FALL PROTECTION
9. AUDITORIUM STAGE SMOKE VENT (2120SQFT*5%=4 VENTS REQUIRED)

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ROOF PLAN

A-131

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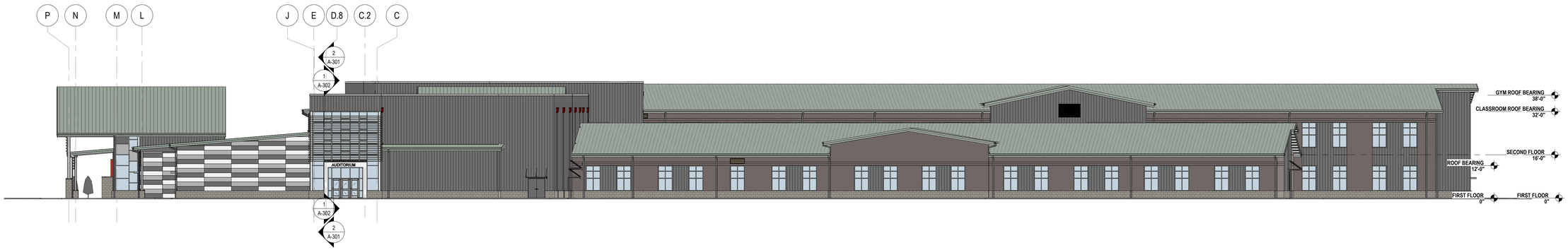
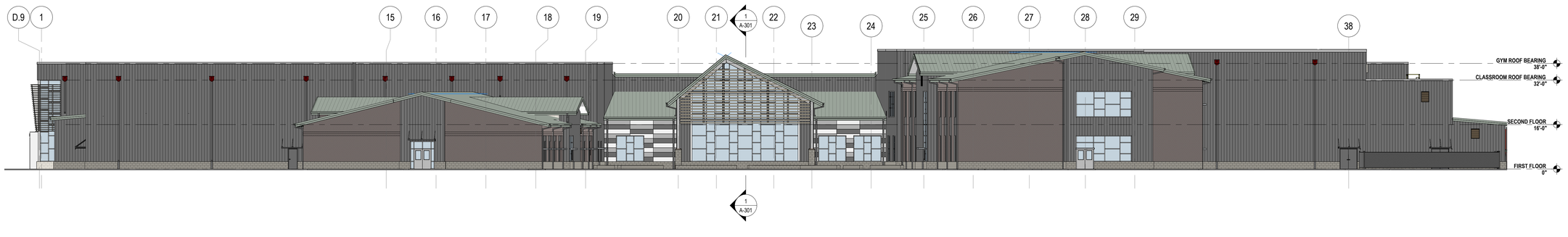
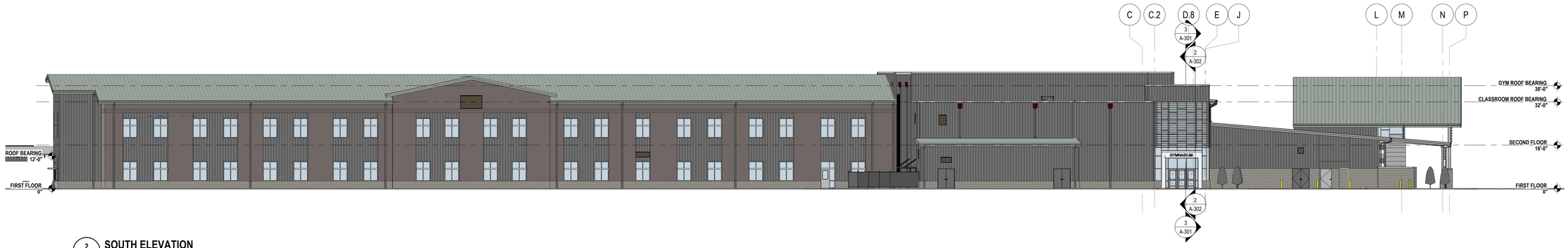


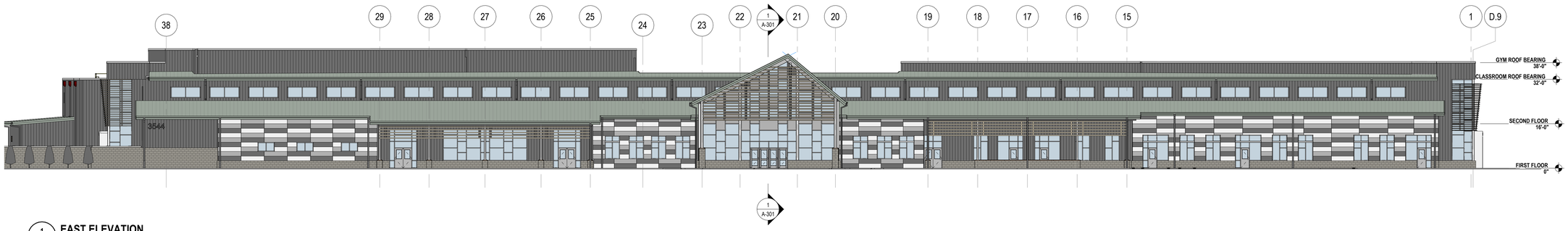
4 A-200.1 **NORTH ELEVATION**
SCALE: 1/16" = 1'-0"



3 A-200.1 **WEST ELEVATION**
SCALE: 1/16" = 1'-0"



2 A-200.1 **SOUTH ELEVATION**
SCALE: 1/16" = 1'-0"



1 A-200.1 **EAST ELEVATION**
SCALE: 1/16" = 1'-0"

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OVERALL EXTERIOR ELEVATIONS

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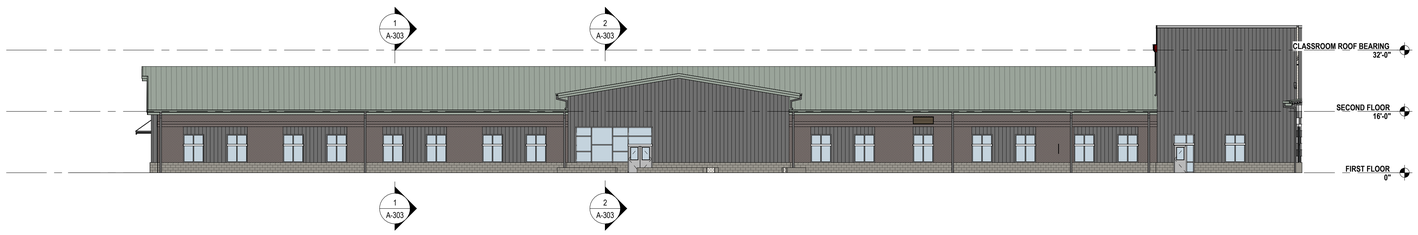
2 / A-200.2 **OVERALL COURTYARD SOUTH ELEVATION**

SCALE: 1/16" = 1'-0"



1 / A-200.2 **OVERALL COURTYARD NORTH ELEVATION**

SCALE: 1/16" = 1'-0"

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OVERALL EXTERIOR ELEVATIONS

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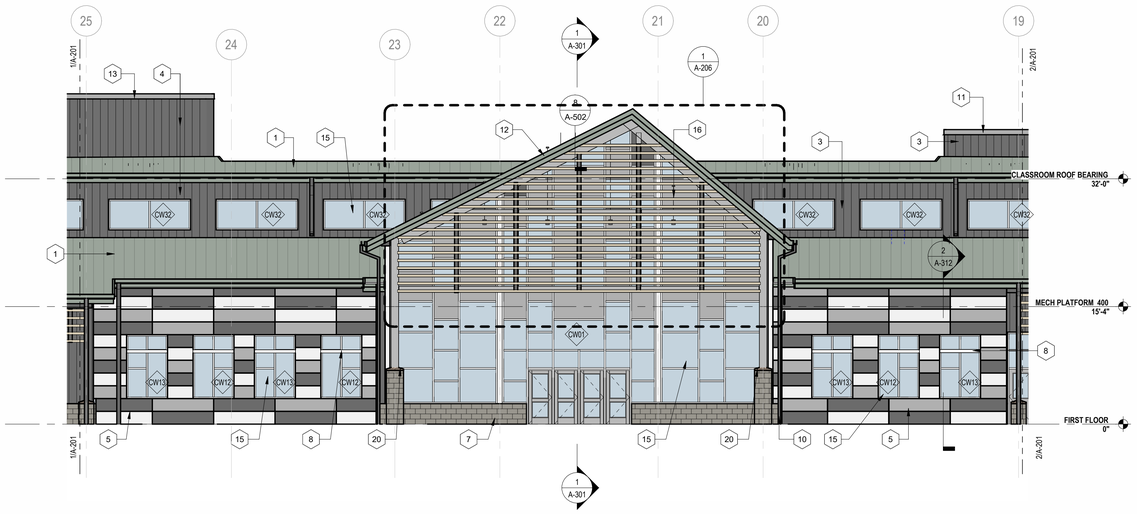
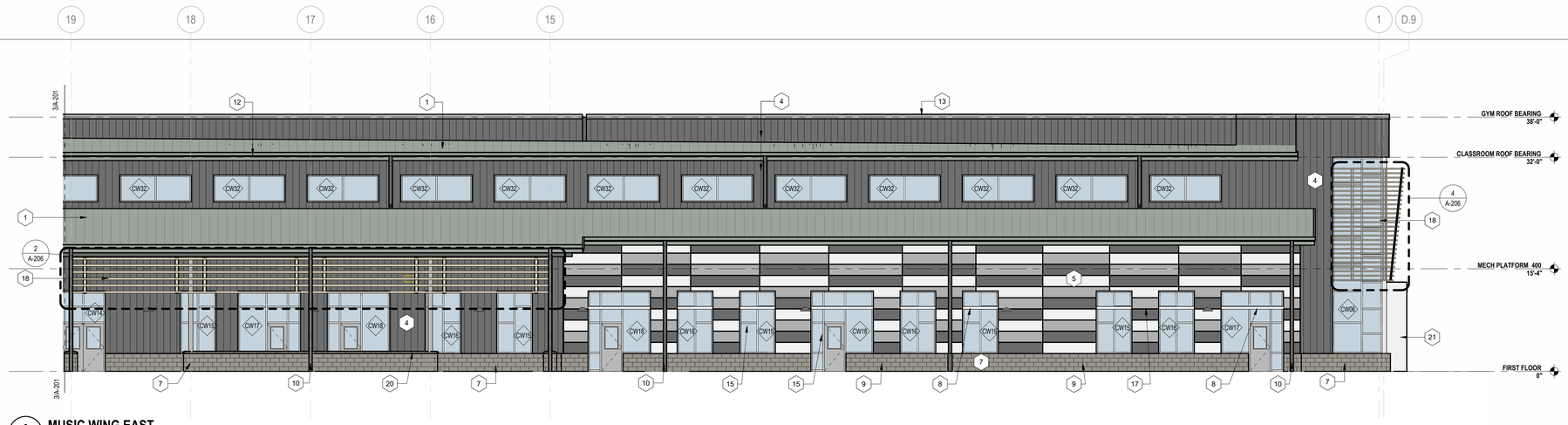
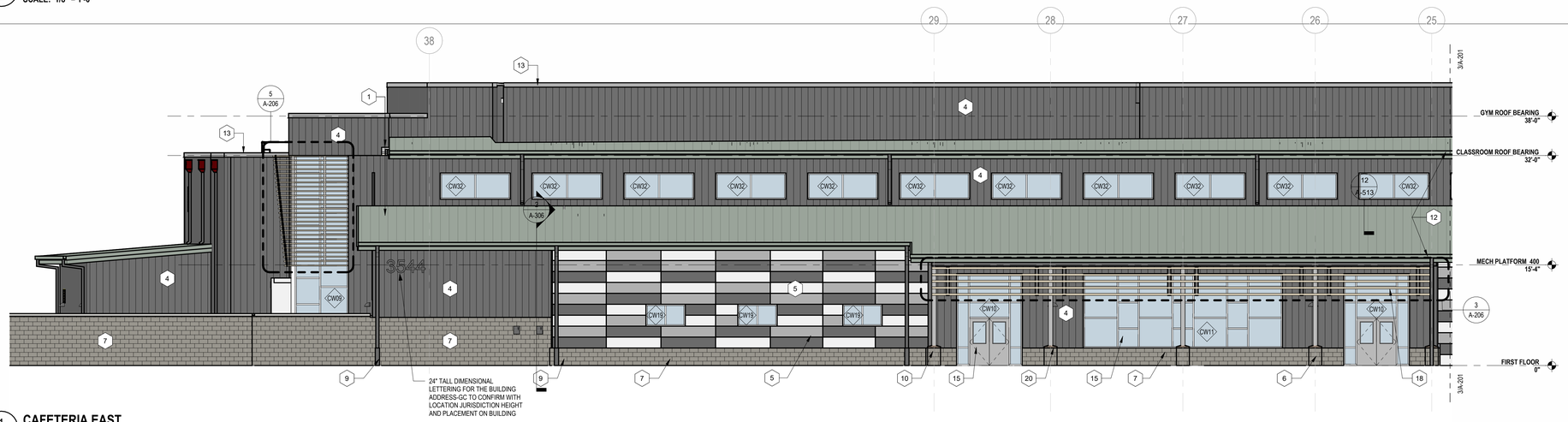


3 A-201 **MAIN ENTRY EAST**
SCALE: 1/8" = 1'-0"



2 A-201 **MUSIC WING EAST**
SCALE: 1/8" = 1'-0"



1 A-201 **CAFETERIA EAST**
SCALE: 1/8" = 1'-0"

ELEVATION LEGEND

SYMBOL	DESCRIPTION
CJ	CONTROL JOINT
EJ	BUILDING EXPANSION JOINT
(+3/8")	INDICATES PROJECTION DISTANCE FROM FACE OF BRICK - FACE OF BRICK IS (0")
(-3/8")	INDICATES RECESS DISTANCE FROM FACE OF BRICK - FACE OF BRICK IS (0")
W2	STOREFRONT/CURTAIN WALL TAG - SEE SHEET A-611 & A-612 WITH FLOOR PLANS

GENERAL NOTES:

1. SOLIDER COURSE ABOVE & BELOW WINDOW TO BE (+3/8") FROM FACE OF WALL U.N.O.
2. DOWNSPOUTS AT PERVIOUS (GRADE) SHALL RECEIVE A CAST IRON BOOT. ALL DOWNSPOUTS AT IMPERVIOUS (SIDEWALKS) LOCATIONS SHALL RUN THROUGH SIDEWALK WITH DOWNSPOUT CONNECTOR. SEE DETAILS ON SHEET A-503.

ELEVATION KEY NOTES

1. STANDING SEAM METAL PANEL ROOF - COLOR TBD
2. FIELD BRICK (BRK1)
3. ACCENT BRICK (BRK2) DOUBLE SOLDIER COURSE BANDING (PROJECT +3/8")
4. METAL PANEL MP-1, THREE VARYING BOX WIDTHS IN A REPEATING PATTERN
5. COMPOSITE METAL PANEL CMP-1,CMP-2, CMP3 - 3 DIFFERENT COLORS IN REPEATING PATTERN
6. METAL PANEL MP-2, BOX RIB PATTERN 1
7. SLIT FACE BLOCK OVER 1-3/8" AIR SPACE OVER 3" FOAMED- IN-PLACE INSULATION OVER CMU.
8. PRE-MANUFACTURED WINDOW-MOUNTED ALUMINUM SUNSHADE
9. 4" X 6" DOWNSPOUT WITH CAST IRON BOOT. TIE TO STORM DRAINS. AT PERVIOUS LOCATIONS ONLY.
10. 4" X 6" DOWNSPOUT WITH PVC BOOT. AT IMPERVIOUS LOCATIONS ONLY.
11. SCUPPER WITH COLLECTION BOX AND DOWNSPOUT
12. FACIA & GUTTER
13. CONT. PRE-FINISHED METAL COPING (COLOR TO MATCH ADJACENT MATERIAL)
14. PRE-MANUFACTURED WALL MOUNTED CANOPY
15. CUTAIN WALL WITH 1" INSULATED GLAZING- SEE SHEET A-611 & A612 FOR MORE INFORMATION
16. METAL WALL LOUVER - SEE MECHANICAL FOR SIZING. COLOR TO BE SELECTED FROM MANUF FULL LINE OF COLORS.
17. EXTERIOR WALL LIGHT FIXTURE - SEE ELECTRICAL
18. SUN SCREEN. ATTACHED TO CURTAINWALL
19. 14" HEIGHT ALUMINUM SIGNAGE LETTERS
20. CAST STONE CAP
21. COMPOSITE METAL PANEL CMP-2

EXTERIOR ELEVATION MATERIALS LEGEND

ALL COLORS LISTED ARE BASIS OF DESIGN FOR COLOR SELECTIONS AND MUST BE REVIEWED BY ARCHITECT FOR FINAL APPROVAL.

	MANUF	COLOR
CMP-1	PAC CLAD	CADET GREY
CMP-2	PAC CLAD	PURE WHITE
CMP-3	PAC CLAD	SLATE GREY
MP-1	PAC CLAD	SLATE GREY
MP-2	PAC CLAD	SLATE GREY
BRK-1	PALMETTO BRICK	PEWTER
SFB-1	OLD CASTLE/ECHELON	4106

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EXT. BUILDING ELEVATIONS

A-201

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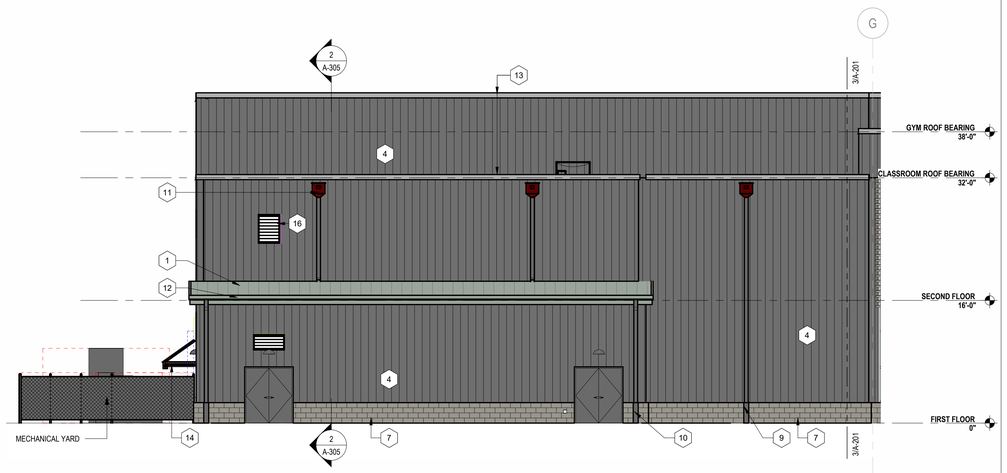
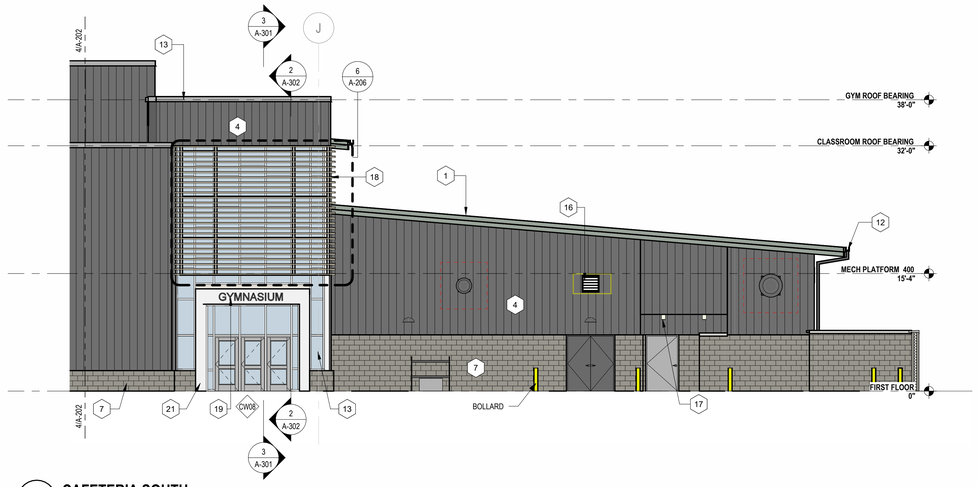
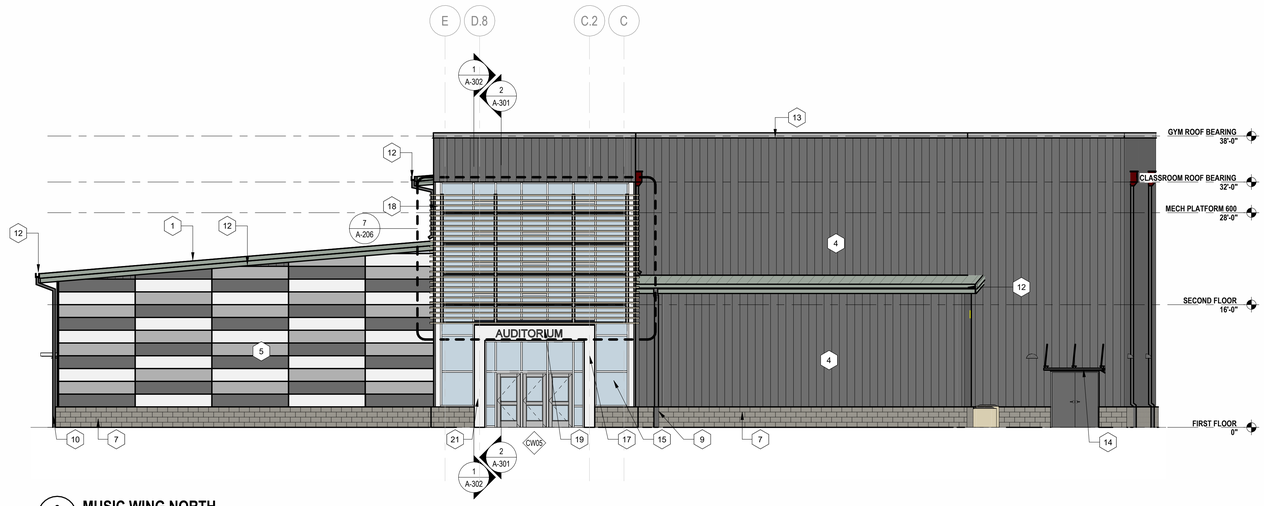


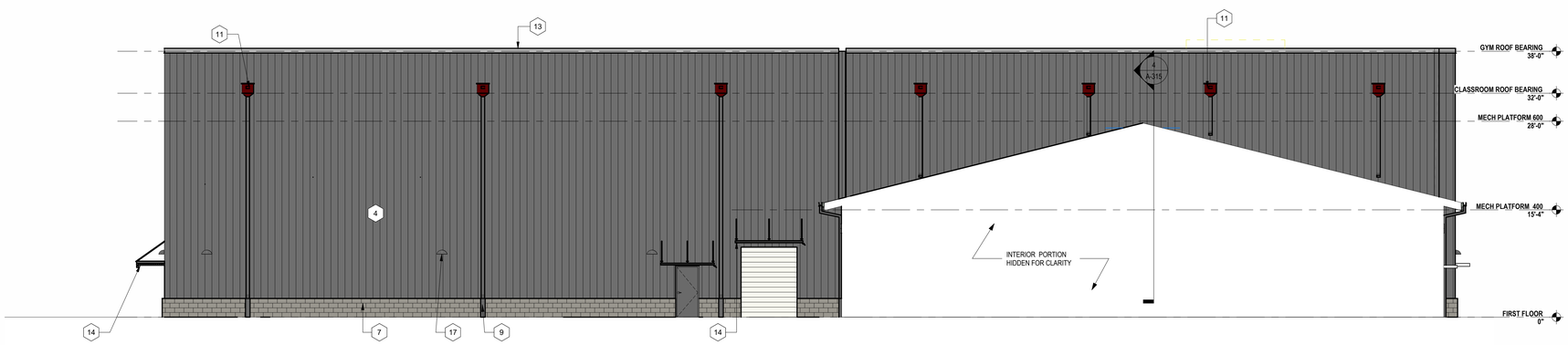
4 A-202 GYMNASIUM SOUTH
SCALE: 1/8" = 1'-0"



3 A-202 CAFETERIA SOUTH
SCALE: 1/8" = 1'-0"



2 A-202 MUSIC WING NORTH
SCALE: 1/8" = 1'-0"



1 A-202 AUDITORIUM WEST
SCALE: 1/8" = 1'-0"

ELEVATION LEGEND

SYMBOL	DESCRIPTION
CJ	CONTROL JOINT
EJ	BUILDING EXPANSION JOINT
(+3/8")	INDICATES PROJECTION DISTANCE FROM FACE OF BRICK - FACE OF BRICK IS (0")
(-3/8")	INDICATES RECESS DISTANCE FROM FACE OF BRICK - FACE OF BRICK IS (0")
W2	STOREFRONT/CURTAIN WALL TAG - SEE SHEET A-611 & A-612 WITH FLOOR PLANS

GENERAL NOTES:

1. SOLIDER COURSE ABOVE & BELOW WINDOW TO BE (+3/8") FROM FACE OF WALL U.N.O.
2. DOWNSPOUTS AT PERVIOUS (GRADE) SHALL RECEIVE A CAST IRON BOOT. ALL DOWNSPOUTS AT IMPERVIOUS (SIDEWALKS) LOCATIONS SHALL RUN THROUGH SIDEWALK WITH DOWNSPOUT CONNECTOR. SEE DETAILS ON SHEET A-503.

ELEVATION KEY NOTES

1. STANDING SEAM METAL PANEL ROOF - COLOR TBD
2. FIELD BRICK (BRK1)
3. ACCENT BRICK (BRK2) DOUBLE SOLDIER COURSE BANDING (PROJECT +3/8")
4. METAL PANEL MP-1, THREE VARYING BOX WIDTHS IN A REPEATING PATTERN
5. COMPOSITE METAL PANEL CMP-1,CMP-2, CMP3 - 3 DIFFERENT COLORS IN REPEATING PATTERN
6. METAL PANEL MP-2, BOX RIB PATTERN 1
7. SLIT FACE BLOCK OVER 1-3/8" AIR SPACE OVER 3" FOAMED- IN-PLACE INSULATION OVER CMU.
8. PRE-MANUFACTURED WINDOW-MOUNTED ALUMINUM SUNSHADE
9. 4" X 6" DOWNSPOUT WITH CAST IRON BOOT. TIE TO STORM DRAINS. AT PERVIOUS LOCATIONS ONLY.
10. 4" X 6" DOWNSPOUT WITH PVC BOOT. AT IMPERVIOUS LOCATIONS ONLY.
11. SCUPPER WITH COLLECTION BOX AND DOWNSPOUT
12. FACIA & GUTTER
13. CONT. PRE-FINISHED METAL COPING (COLOR TO MATCH ADJACENT MATERIAL)
14. PRE-MANUFACTURED WALL MOUNTED CANOPY
15. CUTAIN WALL WITH 1" INSULATED GLAZING- SEE SHEET A-611 & A612 FOR MORE INFORMATION
16. METAL WALL LOUVER - SEE MECHANICAL FOR SIZING. COLOR TO BE SELECTED FROM MANUF FULL LINE OF COLORS.
17. EXTERIOR WALL LIGHT FIXTURE - SEE ELECTRICAL
18. SUN SCREEN, ATTACHED TO CURTAINWALL
19. 14" HEIGHT ALUMINUM SIGNAGE LETTERS
20. CAST STONE CAP
21. COMPOSITE METAL PANEL CMP-2

EXTERIOR ELEVATION MATERIALS LEGEND

ALL COLORS LISTED ARE BASIS OF DESIGN FOR COLOR SELECTIONS AND MUST BE REVIEWED BY ARCHITECT FOR FINAL APPROVAL.

	MANUF	COLOR
CMP-1	PAC CLAD	CADET GREY
CMP-2	PAC CLAD	PURE WHITE
CMP-3	PAC CLAD	SLATE GREY
MP-1	PAC CLAD	SLATE GREY
MP-2	PAC CLAD	SLATE GREY
BRK-1	PALMETTO BRICK	PEWTER
SFB-1	OLD CASTLE/ECHELON	4106

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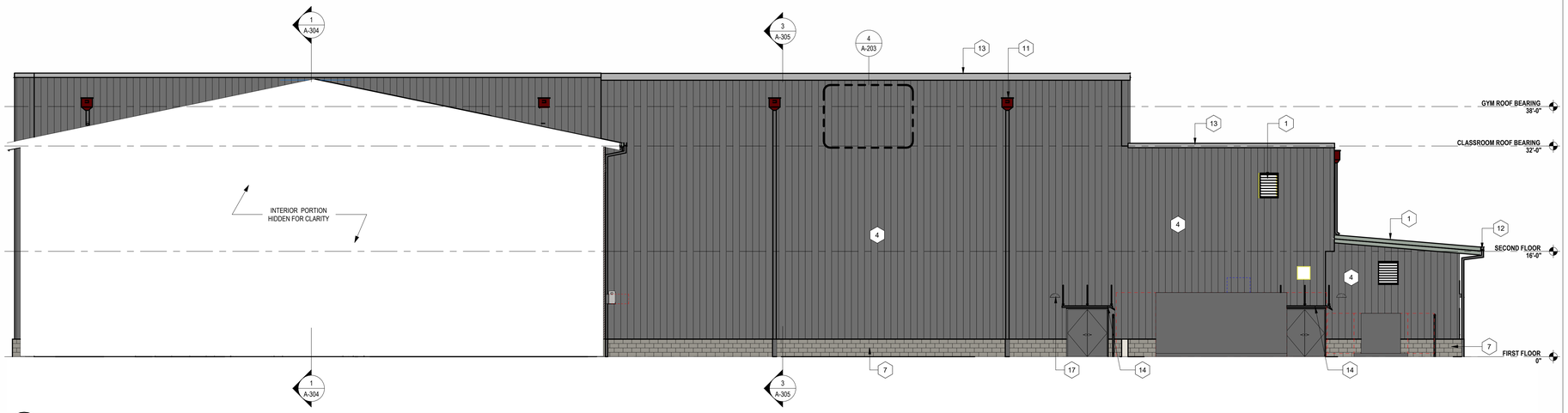
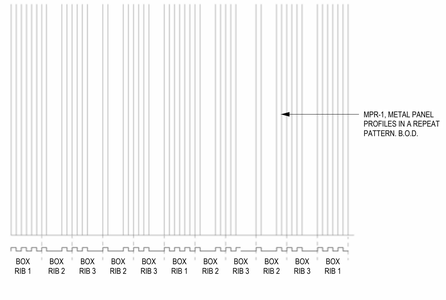


3 A-203 GYMNASIUM WEST
SCALE: 1/8" = 1'-0"



4 A-203 MPR-1 METAL WALL PANEL PATTERN
SCALE: 1/2" = 1'-0"

2 A-203 CLASSROOM WING 500 -600 SOUTH-RIGHT
SCALE: 1/8" = 1'-0"

1 A-203 CLASSROOM WING 500-600 SOUTH-LEFT
SCALE: 1/8" = 1'-0"

ELEVATION LEGEND

SYMBOL	DESCRIPTION
CJ	CONTROL JOINT
EJ	BUILDING EXPANSION JOINT
(+3/8")	INDICATES PROJECTION DISTANCE FROM FACE OF BRICK - FACE OF BRICK IS (0")
(-3/8")	INDICATES RECESS DISTANCE FROM FACE OF BRICK - FACE OF BRICK IS (0")
W2	STOREFRONT/CURTAIN WALL TAG - SEE SHEET A-611 & A-612 WITH FLOOR PLANS

GENERAL NOTES:

1. SOLIDER COURSE ABOVE & BELOW WINDOW TO BE (+3/8") FROM FACE OF WALL U.N.O.
2. DOWNSPOUTS AT PERVIOUS (GRADE) SHALL RECEIVE A CAST IRON BOOT. ALL DOWNSPOUTS AT IMPERVIOUS (SIDEWALKS) LOCATIONS SHALL RUN THROUGH SIDEWALK WITH DOWNSPOUT CONNECTOR. SEE DETAILS ON SHEET A-503.

ELEVATION KEY NOTES

1. STANDING SEAM METAL PANEL ROOF - COLOR TBD
2. FIELD BRICK (BRK1)
3. ACCENT BRICK (BRK2) DOUBLE SOLDIER COURSE BANDING (PROJECT +3/8")
4. METAL PANEL MP-1, THREE VARYING BOX WIDTHS IN A REPEATING PATTERN
5. COMPOSITE METAL PANEL CMP-1,CMP-2, CMP3 - 3 DIFFERENT COLORS IN REPEATING PATTERN
6. METAL PANEL MP-2, BOX RIB PATTERN 1
7. SLIT FACE BLOCK OVER 1-3/8" AIR SPACE OVER 3" FOAMED- IN-PLACE INSULATION OVER CMU.
8. PRE-MANUFACTURED WINDOW-MOUNTED ALUMINUM SUNSHADE
9. 4" X 6" DOWNSPOUT WITH CAST IRON BOOT. TIE TO STORM DRAINS. AT PERVIOUS LOCATIONS ONLY.
10. 4" X 6" DOWNSPOUT WITH PVC BOOT. AT IMPERVIOUS LOCATIONS ONLY.
11. SCUPPER WITH COLLECTION BOX AND DOWNSPOUT
12. FACIA & GUTTER
13. CONT. PRE-FINISHED METAL COPING (COLOR TO MATCH ADJACENT MATERIAL)
14. PRE-MANUFACTURED WALL MOUNTED CANOPY
15. CUTAIN WALL WITH 1" INSULATED GLAZING- SEE SHEET A-611 & A612 FOR MORE INFORMATION
16. METAL WALL LOUVER - SEE MECHANICAL FOR SIZING. COLOR TO BE SELECTED FROM MANUF FULL LINE OF COLORS.
17. EXTERIOR WALL LIGHT FIXTURE - SEE ELECTRICAL
18. SUN SCREEN, ATTACHED TO CURTAINWALL
19. 14" HEIGHT ALUMINUM SIGNAGE LETTERS
20. CAST STONE CAP
21. COMPOSITE METAL PANEL CMP-2

EXTERIOR ELEVATION MATERIALS LEGEND

		MANUF	COLOR
ALL COLORS LISTED ARE BASIS OF DESIGN FOR COLOR SELECTIONS AND MUST BE REVIEWED BY ARCHITECT FOR FINAL APPROVAL.			
	CMP-1	PAC CLAD	CADET GREY
	CMP-2	PAC CLAD	PURE WHITE
	CMP-3	PAC CLAD	SLATE GREY
	MP-1	PAC CLAD	SLATE GREY
	MP-2	PAC CLAD	SLATE GREY
	BRK-1	PALMETTO BRICK	PEWTER
	SFB-1	OLD CASTLE/ECHELON	4106

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FLATWOODS MIDDLE SCHOOL

3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

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EXT. BUILDING ELEVATIONS

A-203

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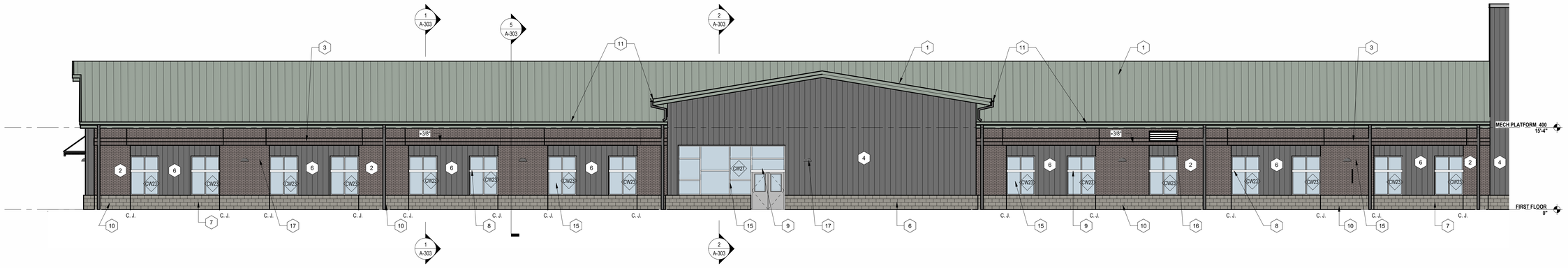
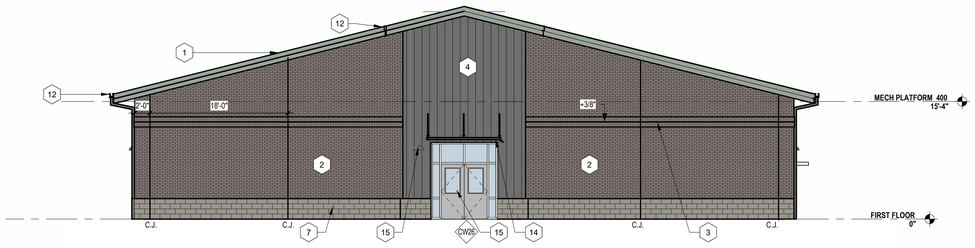


3 A-204 **CLASSROOM WING 400 SOUTH**
SCALE: 1/8" = 1'-0"



2 A-204 **CLASSROOM WING 400 WEST**
SCALE: 1/8" = 1'-0"

ELEVATION LEGEND

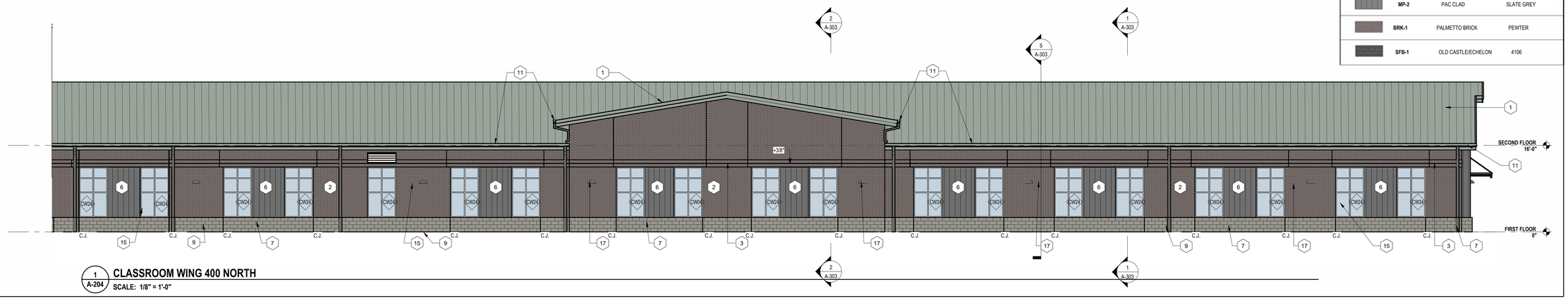
SYMBOL	DESCRIPTION
CJ	CONTROL JOINT
EJ	BUILDING EXPANSION JOINT
(+3/8")	INDICATES PROJECTION DISTANCE FROM FACE OF BRICK - FACE OF BRICK IS (0")
(-3/8")	INDICATES RECESS DISTANCE FROM FACE OF BRICK - FACE OF BRICK IS (0")
W2	STOREFRONT/CURTAIN WALL TAG - SEE SHEET A-611 & A-612 WITH FLOOR PLANS

GENERAL NOTES:

1. SOLIDER COURSE ABOVE & BELOW WINDOW TO BE (+3/8") FROM FACE OF WALL U.N.O.
2. DOWNSPOUTS AT PERVIOUS (GRADE) SHALL RECEIVE A CAST IRON BOOT. ALL DOWNSPOUTS AT IMPERVIOUS (SIDEWALKS) LOCATIONS SHALL RUN THROUGH SIDEWALK WITH DOWNSPOUT CONNECTOR. SEE DETAILS ON SHEET A-503.

ELEVATION KEY NOTES

1. STANDING SEAM METAL PANEL ROOF - COLOR TBD
2. FIELD BRICK (BRK1)
3. ACCENT BRICK (BRK2) DOUBLE SOLDIER COURSE BANDING (PROJECT +3/8")
4. METAL PANEL MP-1, THREE VARYING BOX WIDTHS IN A REPEATING PATTERN
5. COMPOSITE METAL PANEL CMP-1,CMP-2, CMP3 - 3 DIFFERENT COLORS IN REPEATING PATTERN
6. METAL PANEL MP-2, BOX RIB PATTERN 1
7. SLIT FACE BLOCK OVER 1-3/8" AIR SPACE OVER 3" FOAMED- IN-PLACE INSULATION OVER CMU.
8. PRE-MANUFACTURED WINDOW-MOUNTED ALUMINUM SUNSHADE
9. 4" X 6" DOWNSPOUT WITH CAST IRON BOOT. TIE TO STORM DRAINS. AT PERVIOUS LOCATIONS ONLY.
10. 4" X 6" DOWNSPOUT WITH PVC BOOT. AT IMPERVIOUS LOCATIONS ONLY.
11. SCUPPER WITH COLLECTION BOX AND DOWNSPOUT
12. FACIA & GUTTER
13. CONT. PRE-FINISHED METAL COPING (COLOR TO MATCH ADJACENT MATERIAL)
14. PRE-MANUFACTURED WALL MOUNTED CANOPY
15. CUTAIN WALL WITH 1" INSULATED GLAZING- SEE SHEET A-611 & A612 FOR MORE INFORMATION
16. METAL WALL LOUVER - SEE MECHANICAL FOR SIZING. COLOR TO BE SELECTED FROM MANUF FULL LINE OF COLORS.
17. EXTERIOR WALL LIGHT FIXTURE - SEE ELECTRICAL
18. SUN SCREEN, ATTACHED TO CURTAINWALL
19. 14" HEIGHT ALUMINUM SIGNAGE LETTERS
20. CAST STONE CAP
21. COMPOSITE METAL PANEL CMP-2



1 A-204 **CLASSROOM WING 400 NORTH**
SCALE: 1/8" = 1'-0"

EXTERIOR ELEVATION MATERIALS LEGEND

		MANUF	COLOR
ALL COLORS LISTED ARE BASIS OF DESIGN FOR COLOR SELECTIONS AND MUST BE REVIEWED BY ARCHITECT FOR FINAL APPROVAL.			
	CMP-1	PAC CLAD	CADET GREY
	CMP-2	PAC CLAD	PURE WHITE
	CMP-3	PAC CLAD	SLATE GREY
	MP-1	PAC CLAD	SLATE GREY
	MP-2	PAC CLAD	SLATE GREY
	BRK-1	PALMETTO BRICK	PEWTER
	SFB-1	OLD CASTLE/ECHELON	4106

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FLATWOODS MIDDLE SCHOOL

3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

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EXT, BUILDING ELEVATIONS

A-204

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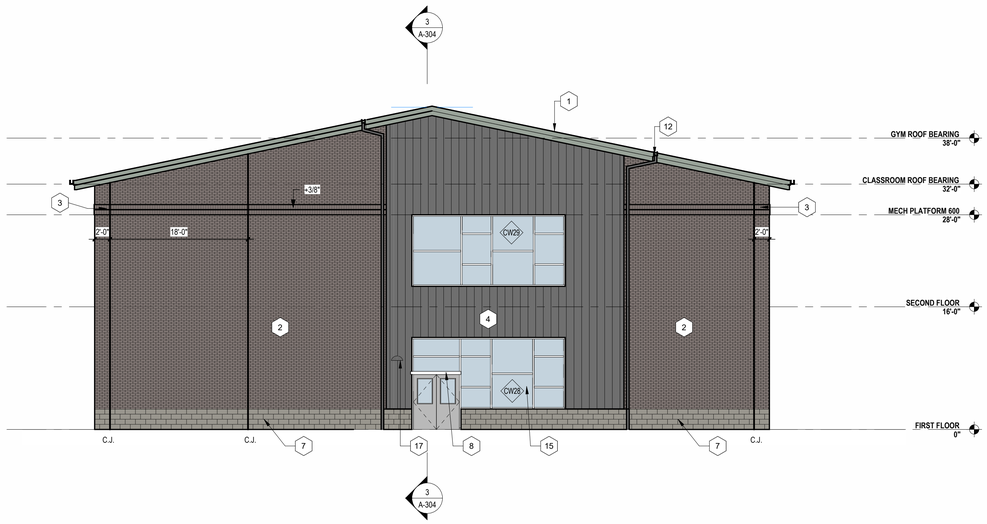
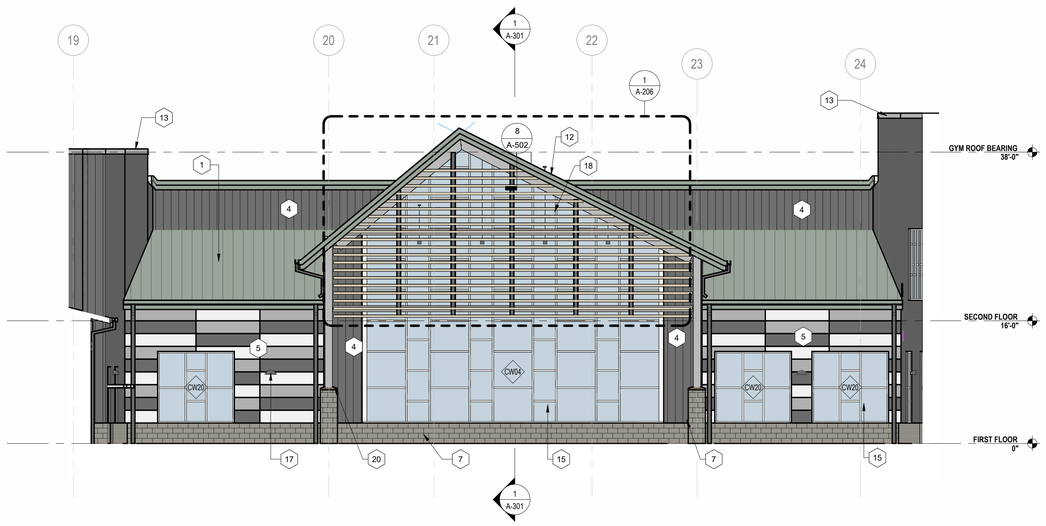


4 A-205 CLASSROOM WING 500-600 WEST
SCALE: 1/8" = 1'-0"



3 A-205 MEDIA WEST
SCALE: 1/8" = 1'-0"

2 A-205 CLASSROOM WING 500-600 NORTH-RIGHT
SCALE: 1/8" = 1'-0"

ELEVATION LEGEND

SYMBOL	DESCRIPTION
CJ	CONTROL JOINT
EJ	BUILDING EXPANSION JOINT
(+3/8")	INDICATES PROJECTION DISTANCE FROM FACE OF BRICK - FACE OF BRICK IS (0")
(-3/8")	INDICATES RECESS DISTANCE FROM FACE OF BRICK - FACE OF BRICK IS (0")
W2	STOREFRONT/CURTAIN WALL TAG - SEE SHEET A-611 & A-612 WITH FLOOR PLANS

GENERAL NOTES:

1. SOLIDER COURSE ABOVE & BELOW WINDOW TO BE (+3/8") FROM FACE OF WALL U.N.O.
2. DOWNSPOUTS AT PERVIOUS (GRADE) SHALL RECEIVE A CAST IRON BOOT. ALL DOWNSPOUTS AT IMPERVIOUS (SIDEWALKS) LOCATIONS SHALL RUN THROUGH SIDEWALK WITH DOWNSPOUT CONNECTOR. SEE DETAILS ON SHEET A-503.

ELEVATION KEY NOTES

1. STANDING SEAM METAL PANEL ROOF - COLOR TBD
2. FIELD BRICK (BRK1)
3. ACCENT BRICK (BRK2) DOUBLE SOLDIER COURSE BANDING (PROJECT +3/8")
4. METAL PANEL MP-1, THREE VARYING BOX WIDTHS IN A REPEATING PATTERN
5. COMPOSITE METAL PANEL CMP-1,CMP-2, CMP3 - 3 DIFFERENT COLORS IN REPEATING PATTERN
6. METAL PANEL MP-2, BOX RIB PATTERN 1
7. SLIT FACE BLOCK OVER 1-3/8" AIR SPACE OVER 3" FOAMED- IN-PLACE INSULATION OVER CMU.
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17. EXTERIOR WALL LIGHT FIXTURE - SEE ELECTRICAL
18. SUN SCREEN, ATTACHED TO CURTAINWALL
19. 14" HEIGHT ALUMINUM SIGNAGE LETTERS
20. CAST STONE CAP
21. COMPOSITE METAL PANEL CMP-2

1 A-205 CLASSROOM WING 500-600 NORTH-LEFT
SCALE: 1/8" = 1'-0"

EXTERIOR ELEVATION MATERIALS LEGEND

		MANUF	COLOR
ALL COLORS LISTED ARE BASIS OF DESIGN FOR COLOR SELECTIONS AND MUST BE REVIEWED BY ARCHITECT FOR FINAL APPROVAL.			
	CMP-1	PAC CLAD	CADET GREY
	CMP-2	PAC CLAD	PURE WHITE
	CMP-3	PAC CLAD	SLATE GREY
	MP-1	PAC CLAD	SLATE GREY
	MP-2	PAC CLAD	SLATE GREY
	BRK-1	PALMETTO BRICK	PEWTER
	SFB-1	OLD CASTLE/ECHELON	4106

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FLATWOODS MIDDLE SCHOOL

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ENERGY STAR PARTNER

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EXT. BUILDING ELEVATIONS

A-205

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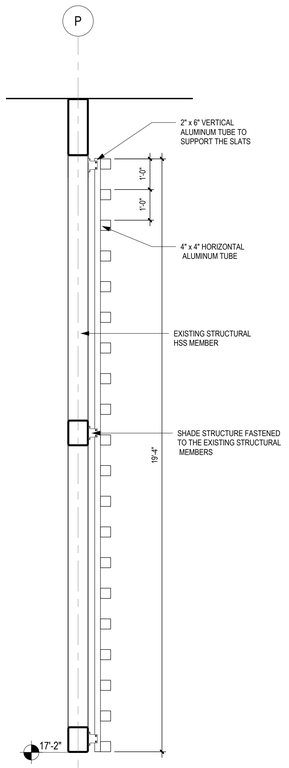
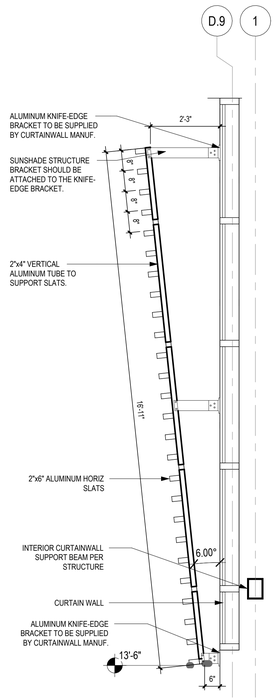
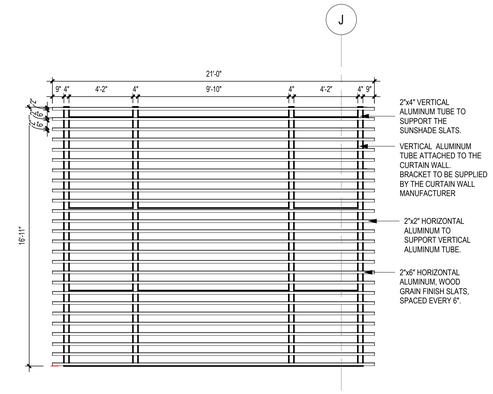


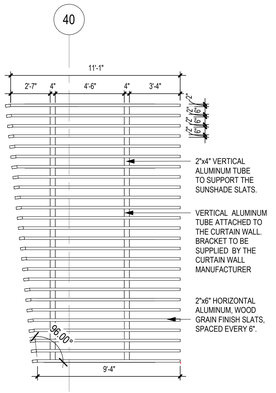
9 A-206 **SUN SHADE SECTION AT FRONT ENTRANCE**
SCALE: 1/2" = 1'-0"



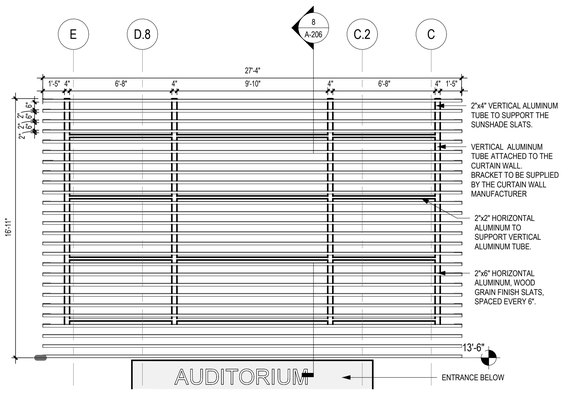
8 A-206 **SUNSHADE SECTION AT AUD/GYM ENTRANCE**
SCALE: 1/2" = 1'-0"



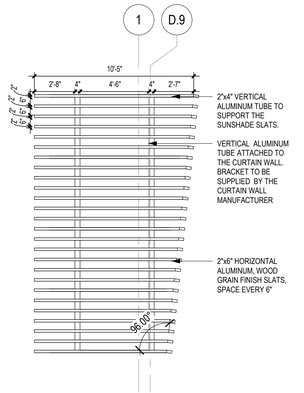
6 A-206 **SUN SHADE AT GYM ENTRANCE (SOUTH)**
SCALE: 1/4" = 1'-0"



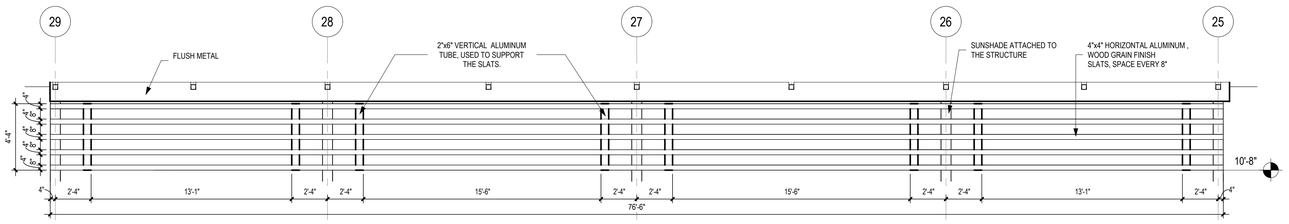
5 A-206 **SUN SHADE DETAIL AT GYM ENTRANCE (EAST)**
SCALE: 1/4" = 1'-0"



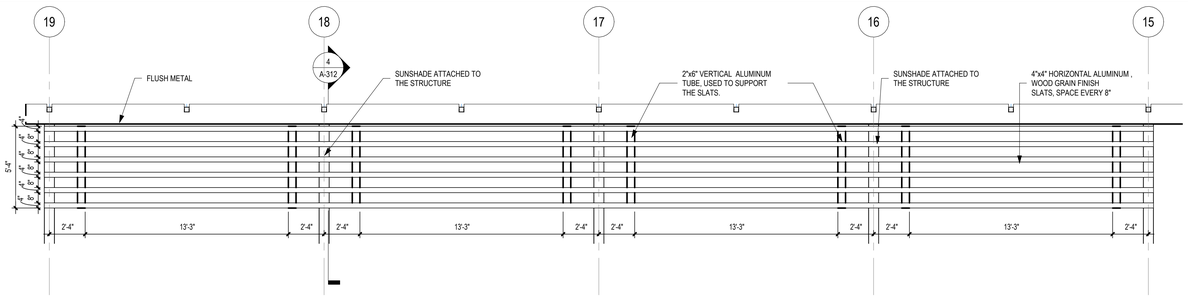
7 A-206 **SUN SHADE AT AUDITORIUM ENTRANCE (NORTH)**
SCALE: 1/4" = 1'-0"



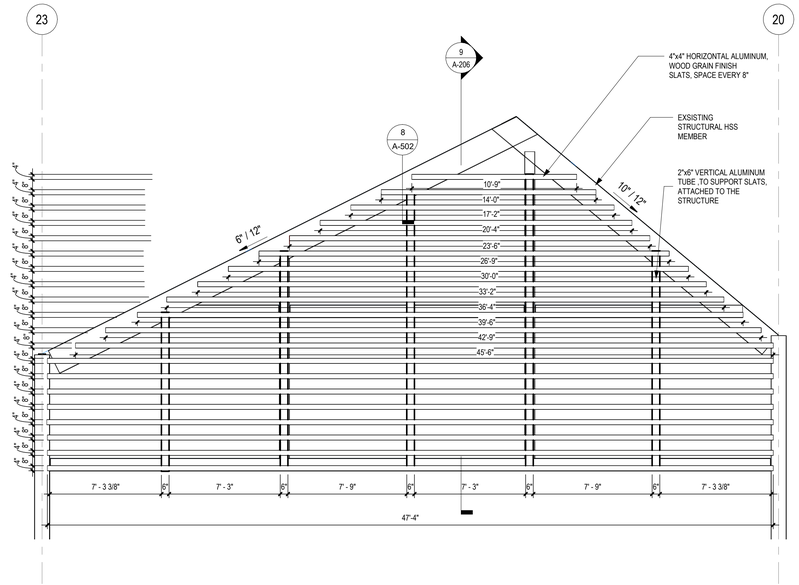
4 A-206 **SUN SHADE AT AUDITORIUM ENTRANCE (EAST)**
SCALE: 1/4" = 1'-0"



3 A-206 **SUN SHADE DETAL AT CAFETERIA**
SCALE: 1/4" = 1'-0"



2 A-206 **SUN SHADE DETAIL AT ART WING**
SCALE: 1/4" = 1'-0"



1 A-206 **MAIN ENTRY SUN SHADE**
SCALE: 1/4" = 1'-0"

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EXT. BUILDING SCREEN ELEVATIONS & DETAILS

A-206

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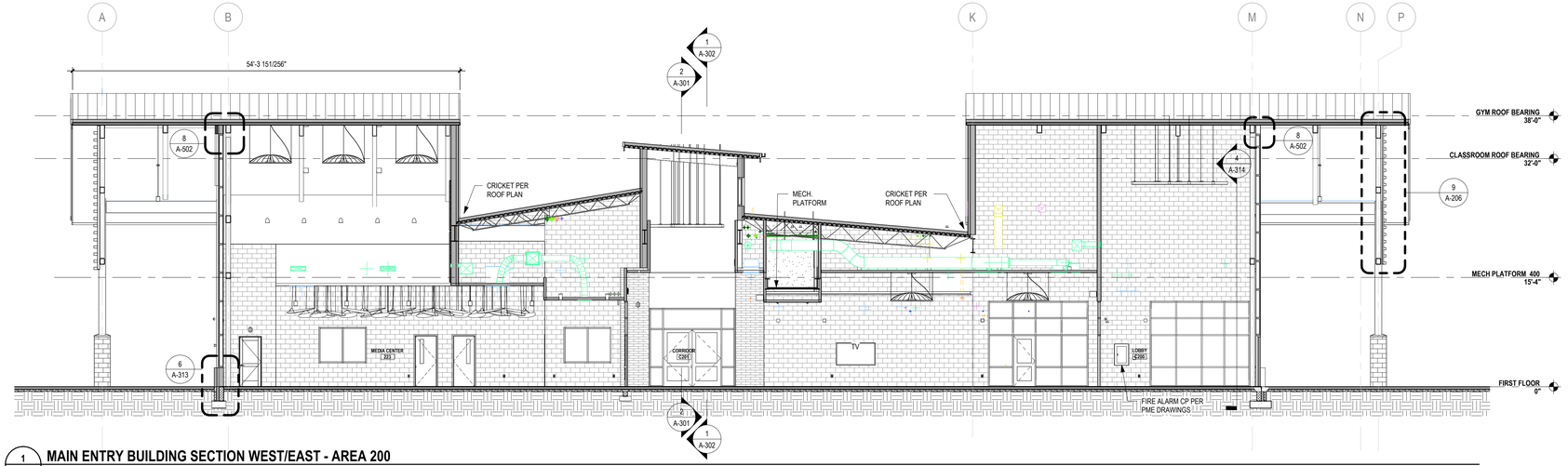
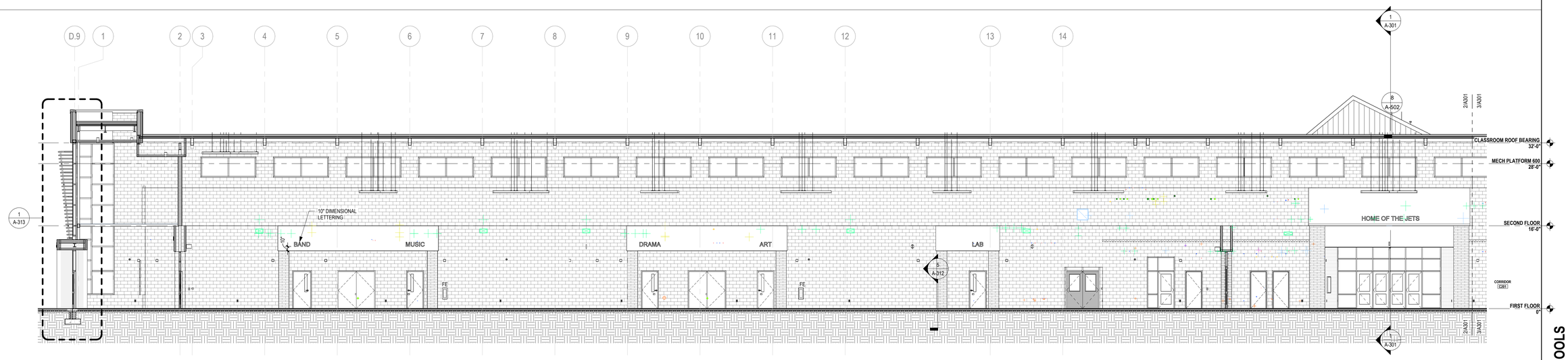


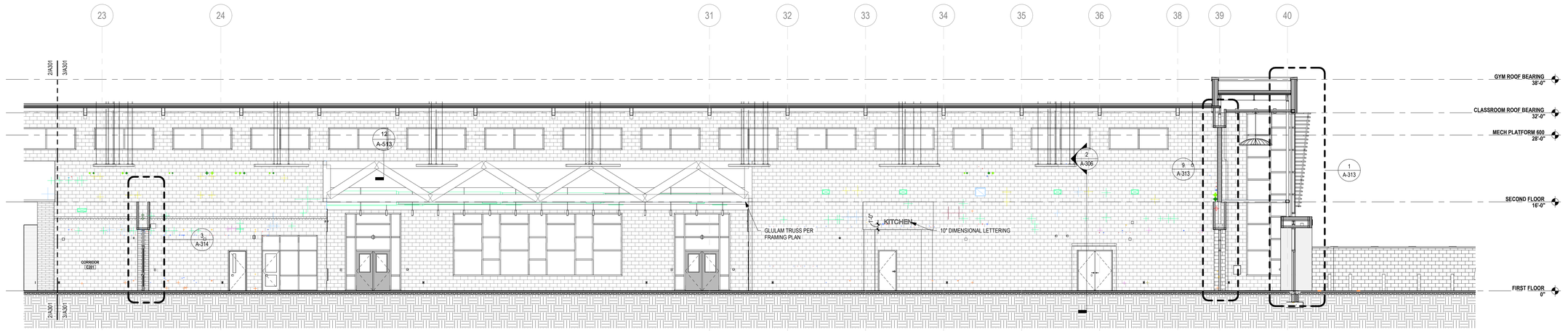
1 A-301 MAIN ENTRY BUILDING SECTION WEST/EAST - AREA 200

SCALE: 1/8" = 1'-0"



2 A-301 EAST CORRIDOR SECTION - AREA 100

SCALE: 1/8" = 1'-0"



3 A-301 EAST CORRIDOR SECTION - AREA 300

SCALE: 1/8" = 1'-0"

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BUILDING SECTION - MAIN CORRIDOR

A-301

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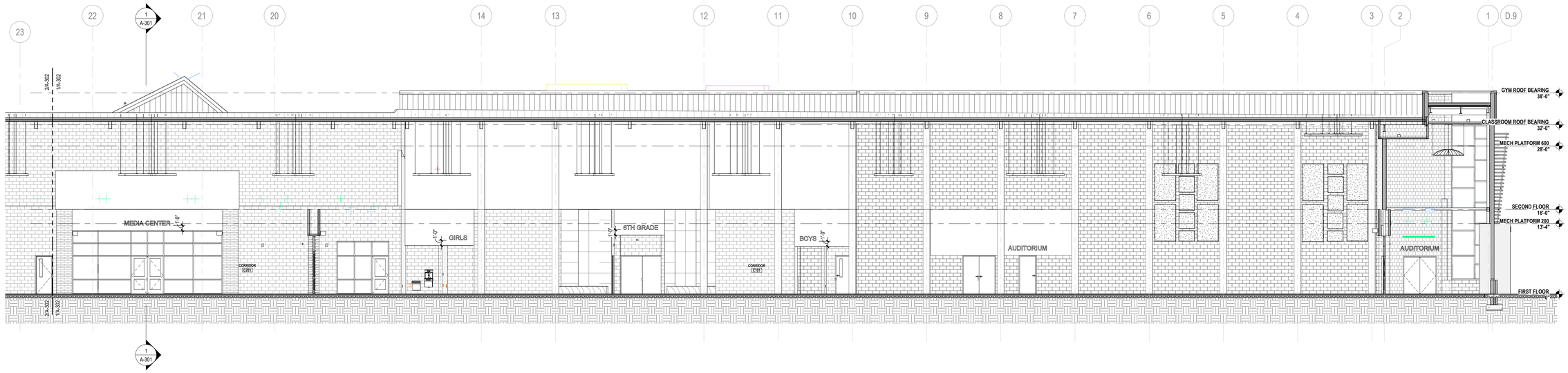
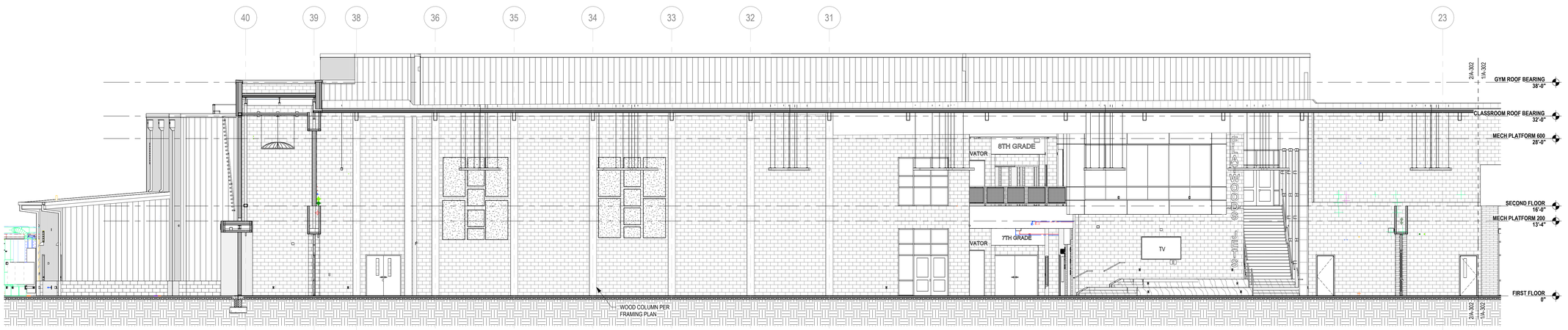


1 A-302 **WEST CORRIDOR SECTION-AREA 100**

SCALE: 1/8" = 1'-0"



2 A-302 **WEST CORRIDOR SECTION-AREA 300**

SCALE: 1/8" = 1'-0"

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BUILDING SECTION - MAIN CORRIDOR

A-302

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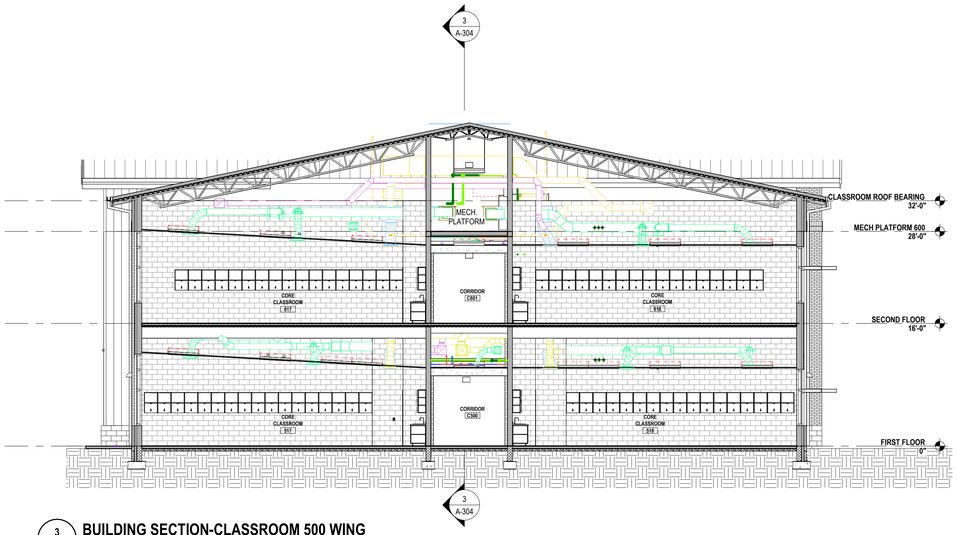
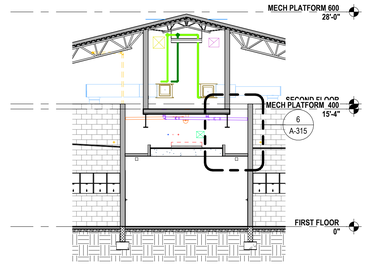
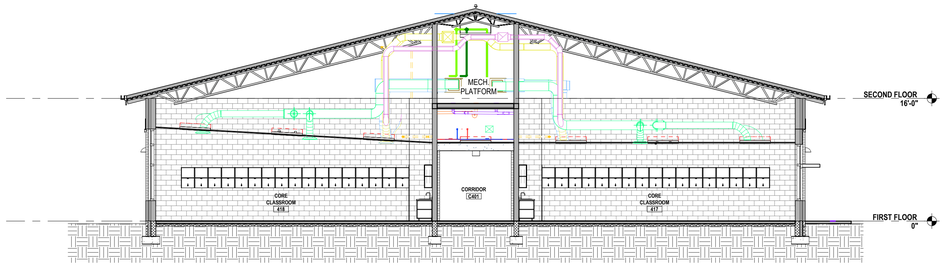


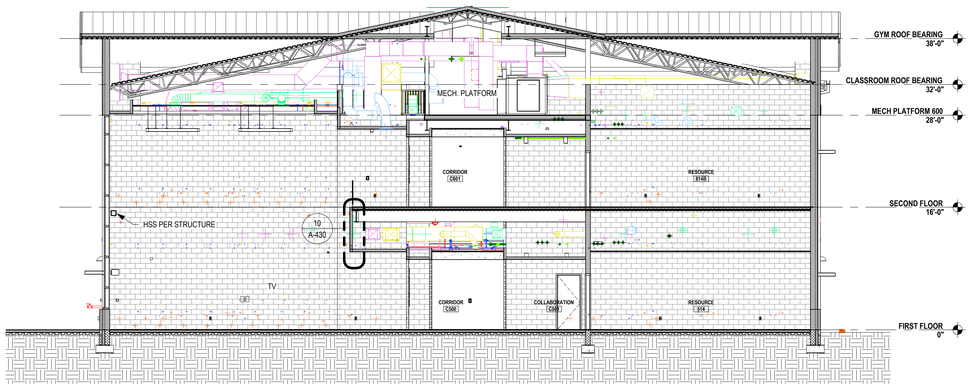
3 A-303 **BUILDING SECTION-CLASSROOM 500 WING**
SCALE: 1/8" = 1'-0"



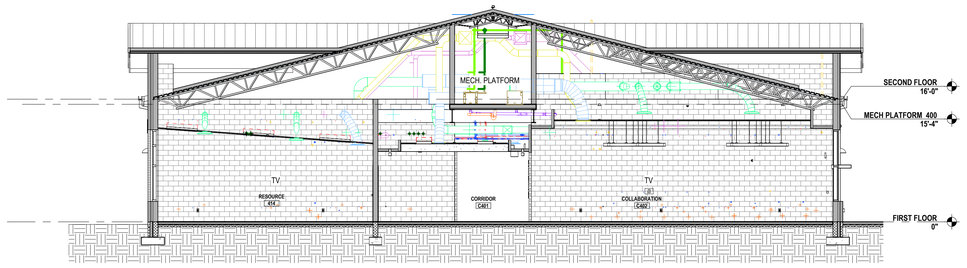
5 A-303 **BUILDING SECTION-CLASSROOM ENTRIES-TYP 400/600 WING**
SCALE: 1/8" = 1'-0"



1 A-303 **BUILDING SECTION-CLASSROOM 400 WING**
SCALE: 1/8" = 1'-0"



4 A-303 **BUILDING SECTION-CLASSROOM 500 WING COLLABORATION**
SCALE: 1/8" = 1'-0"



2 A-303 **BUILDING SECTION-CLASSROOM 400 WING COLLABORATION**
SCALE: 1/8" = 1'-0"

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BUILDING SECTION - CLASSROOM WINGS

A-303

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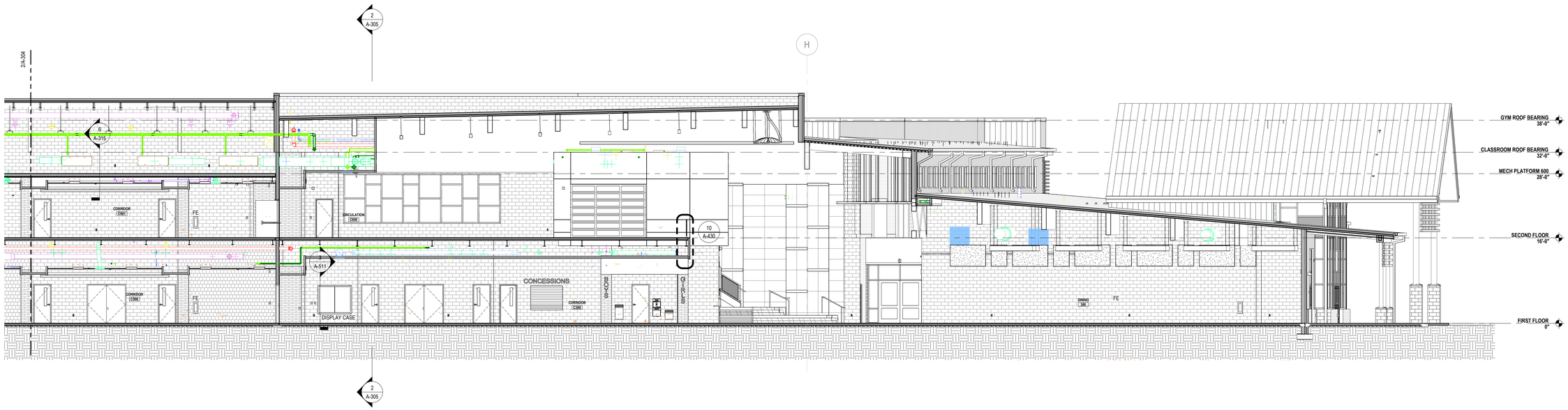
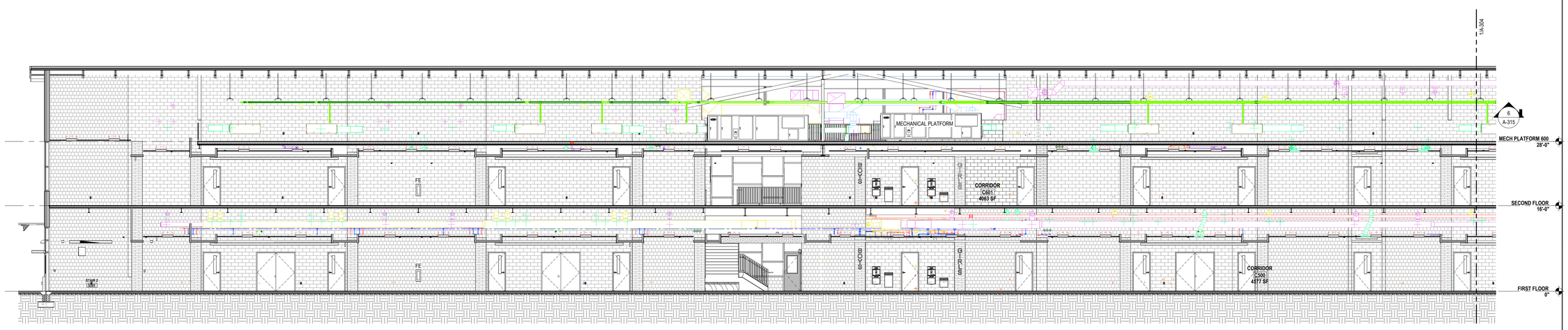


1 A-304 **LONGITUDINAL BUILDING SECTION -500/600 WING & CAFETERIA**

SCALE: 1/8" = 1'-0"



3 A-304 **LONGITUDINAL BUILDING SECTION - 500/600 WING**

SCALE: 1/8" = 1'-0"

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BUILDING SECTION - CLASSROOM WINGS

A-304

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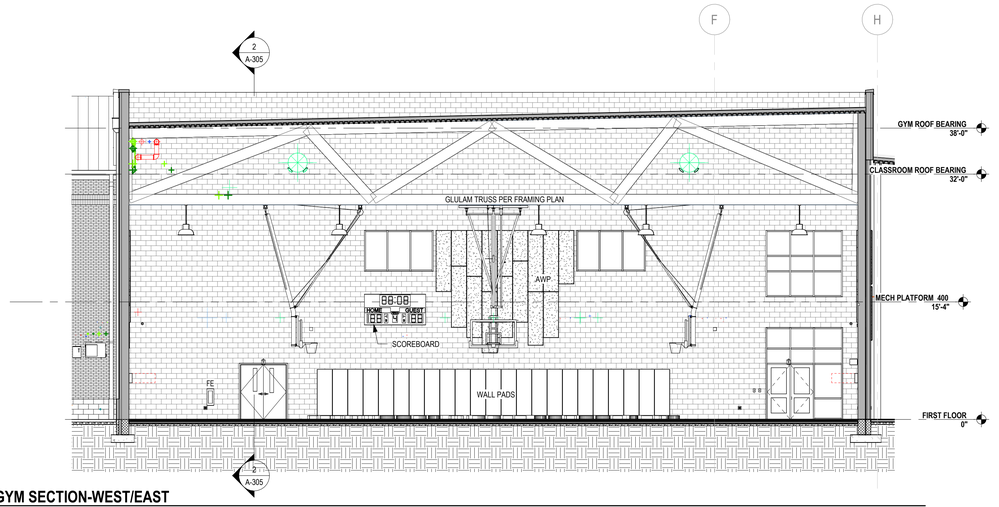
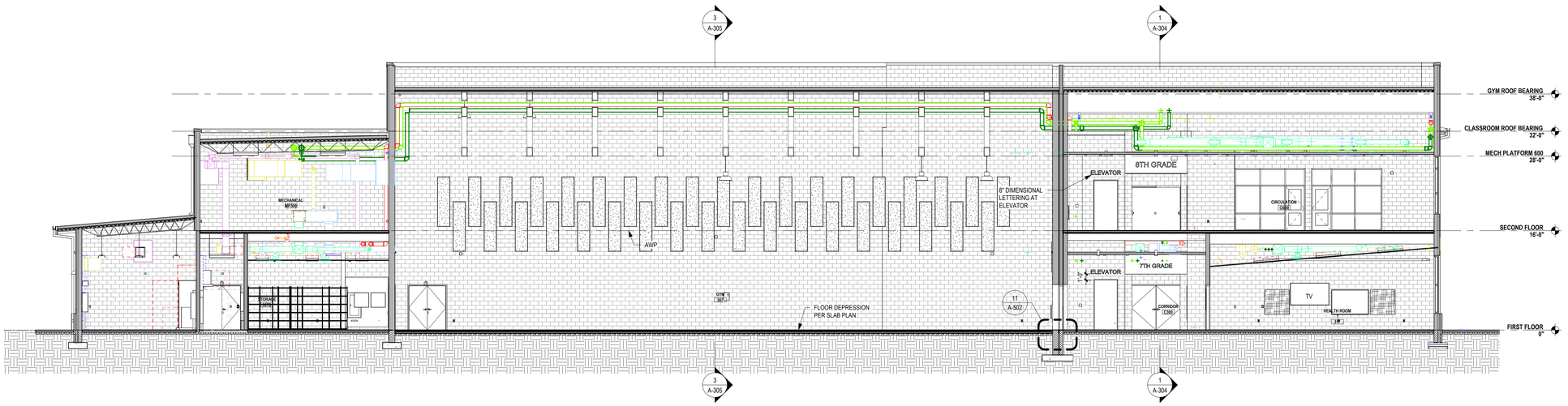
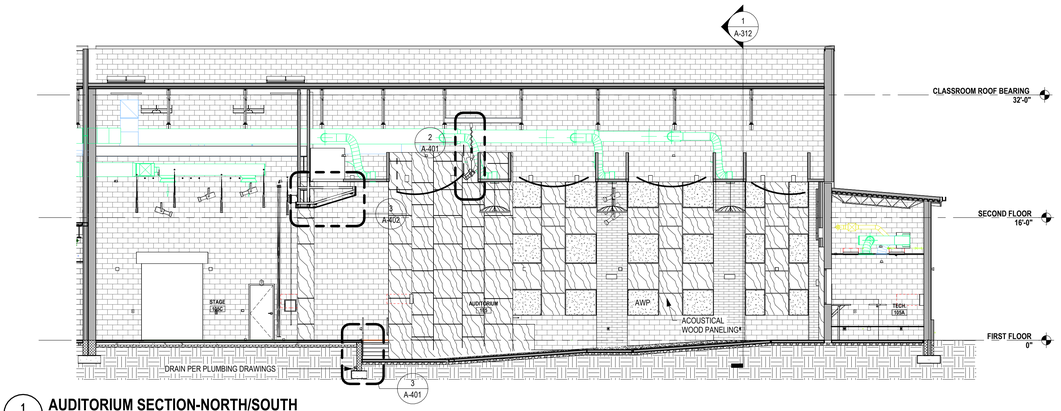


3 A-305 **GYM SECTION-WEST/EAST**
SCALE: 1/8" = 1'-0"



2 A-305 **GYM SECTION-NORTH/SOUTH**
SCALE: 1/8" = 1'-0"



1 A-305 **AUDITORIUM SECTION-NORTH/SOUTH**
SCALE: 1/8" = 1'-0"

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BUILDING SECTION - GYM & AUDITORIUM

A-305

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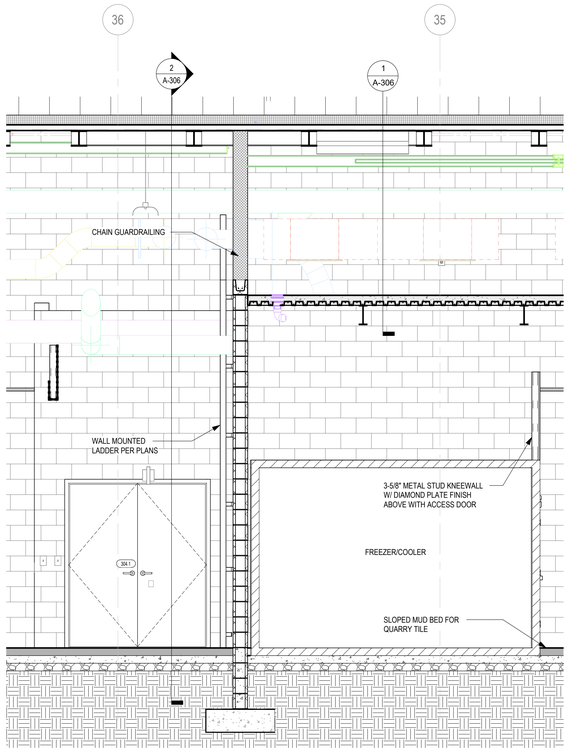
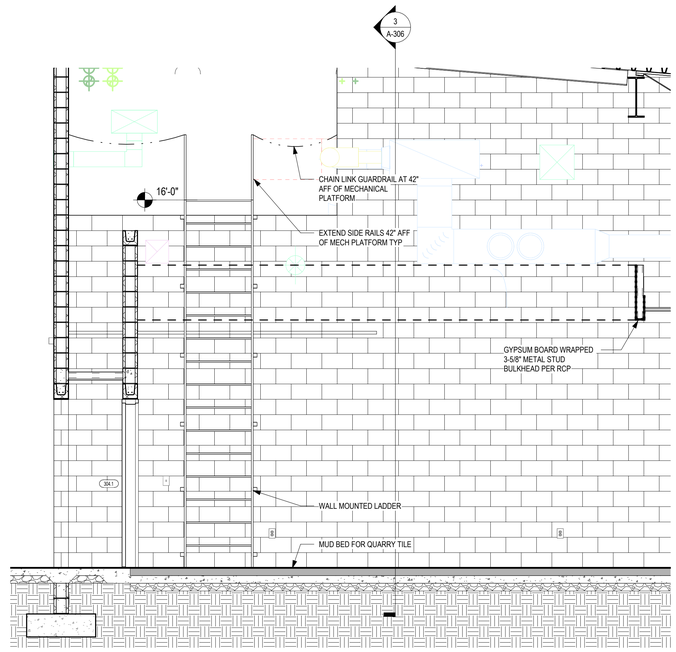
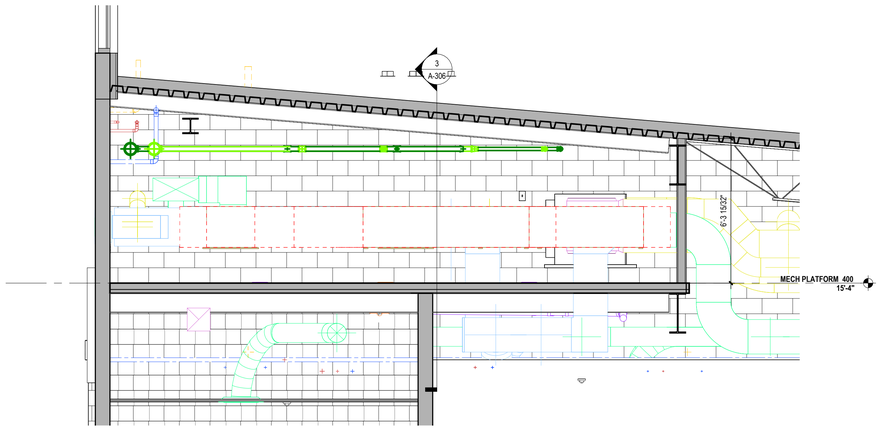


3 A-306 **KITCHEN MECHANICAL ACCESS SECTION 2**
SCALE: 3/8" = 1'-0"



2 A-306 **KITCHEN MECHANICAL ACCESS SECTION**
SCALE: 3/8" = 1'-0"



1 A-306 **ROOF SECTION AT KITCHEN MECHANICAL PLATFORM**
SCALE: 3/8" = 1'-0"

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BUILDING SECTION - KITCHEN MECHANICAL

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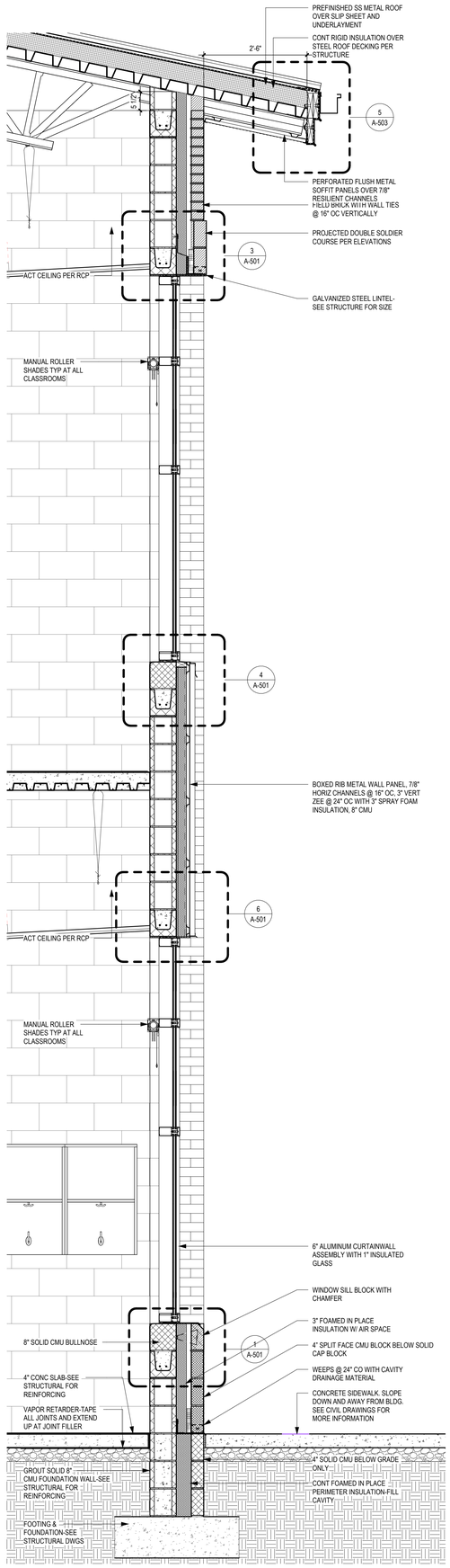
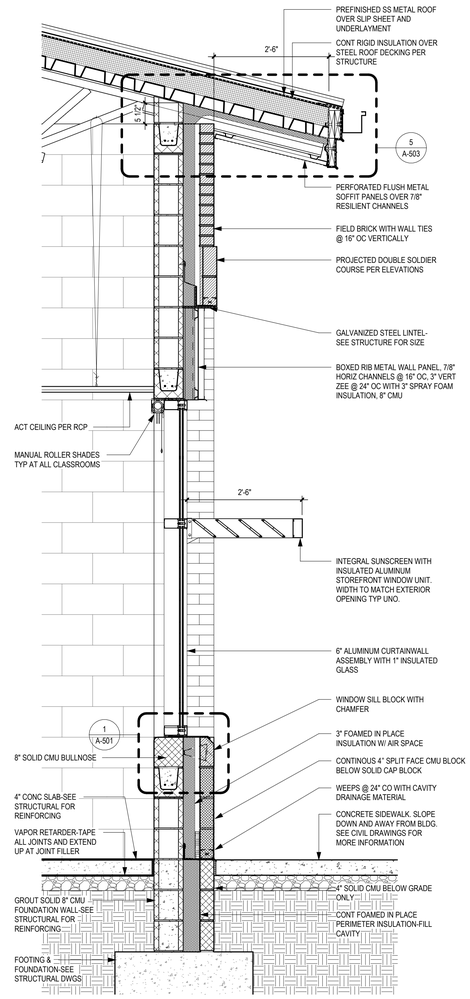


2 A-311 **TYP 500 / 600 WALL SECTION (NORTH)**
SCALE: 3/4" = 1'-0"



1 A-311 **TYP 400 WING WALL SECTION (SOUTH)**
SCALE: 3/4" = 1'-0"

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WALL SECTIONS

A-311

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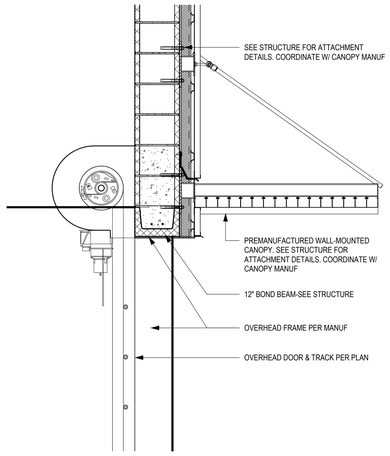
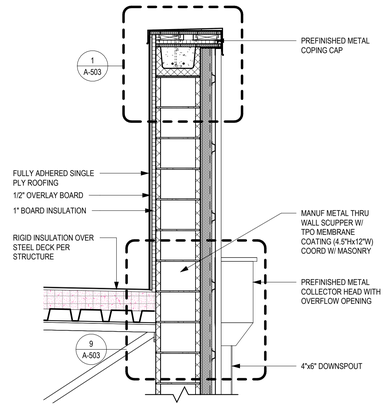
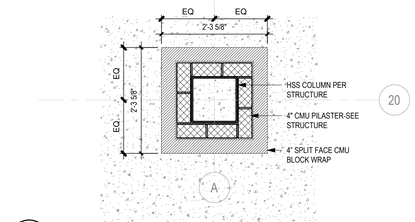
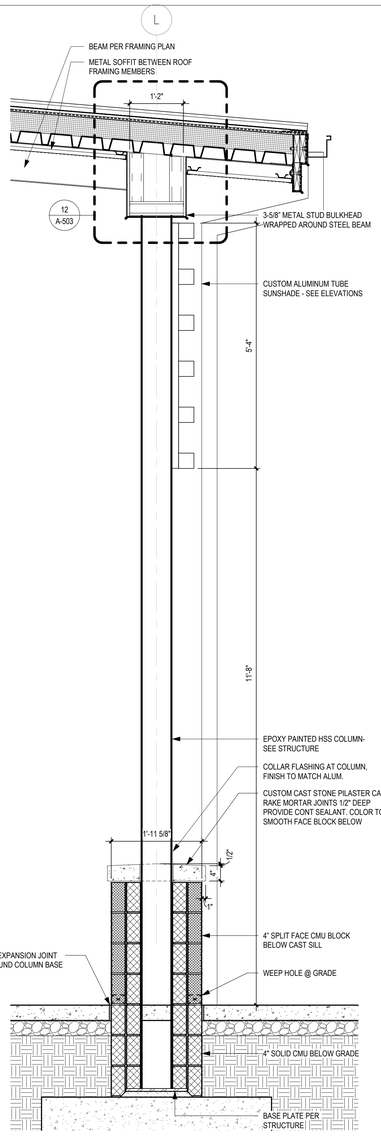


3 / A-312 **100 STAGE CANOPY/OH DOOR SECTION**
SCALE: 3/4" = 1'-0"

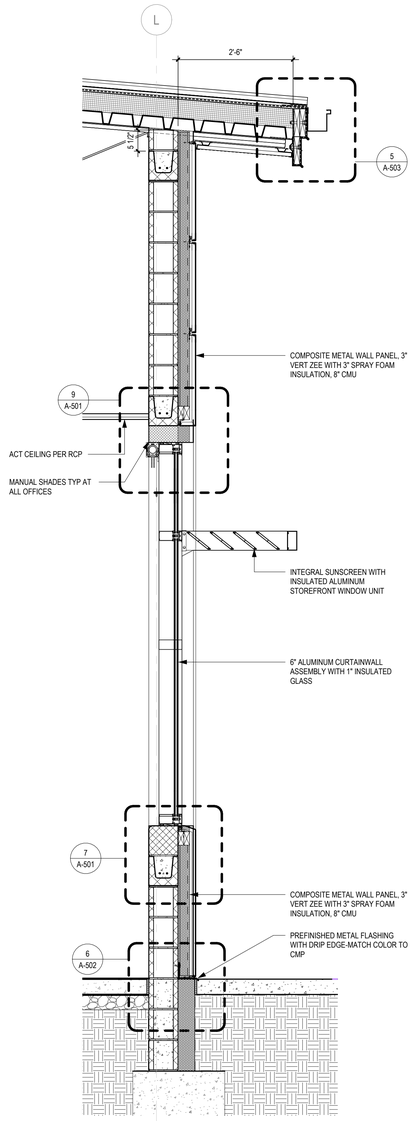




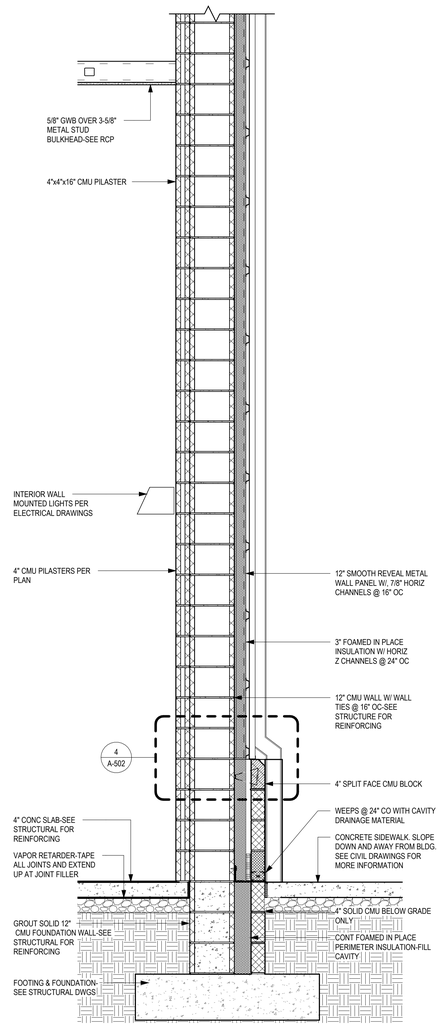
7 / A-312 **ENLARGED COLUMN PLAN DETAIL-AREA 200 ENTRY AND MEDIA**
SCALE: 3/4" = 1'-0"



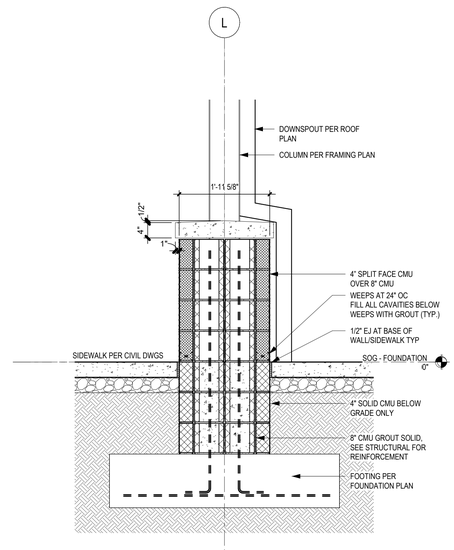
4 / A-312 **100& 300 WING COLUMN BASE SECTION**
SCALE: 3/4" = 1'-0"



2 / A-312 **200 WING WALL SECTION**
SCALE: 3/4" = 1'-0"



1 / A-312 **100 AUDITORIUM / GYMNASIUM WALL SECTION**
SCALE: 3/4" = 1'-0"



6 / A-312 **ENLARGED 300 COLUMN BASE PLAN**
SCALE: 3/4" = 1'-0"

5 / A-312 **ART CLASSROOM EXT PORCH WALL (AREA 100)**
SCALE: 3/4" = 1'-0"

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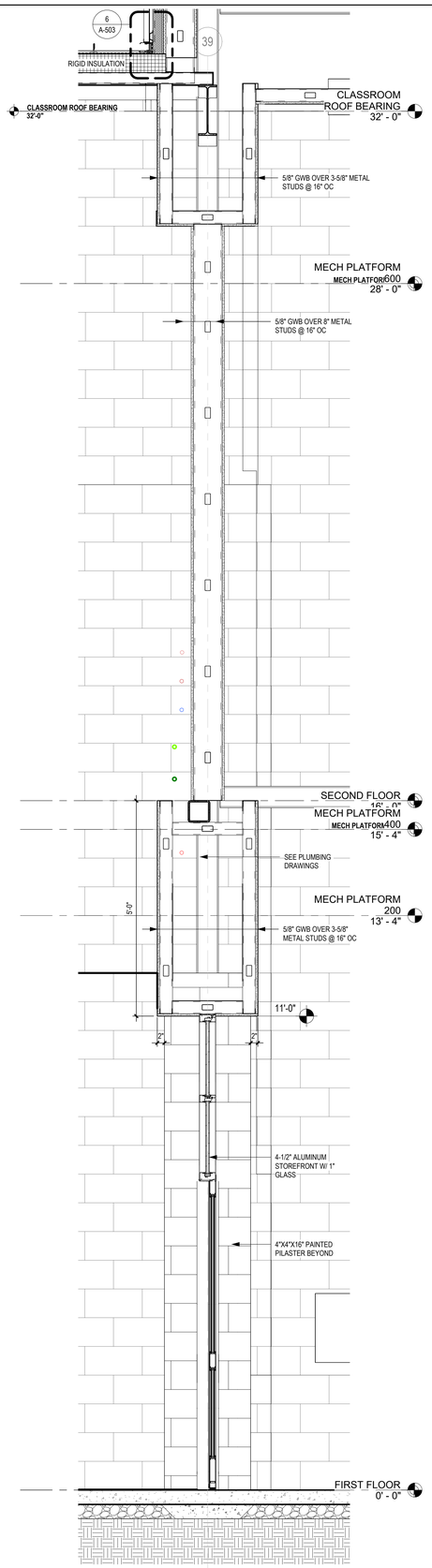
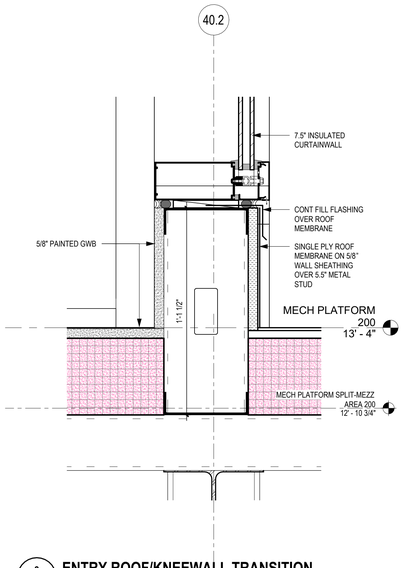
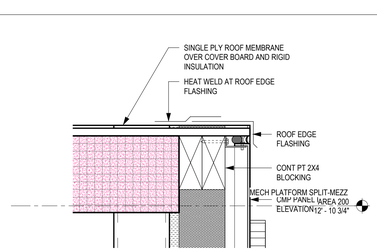


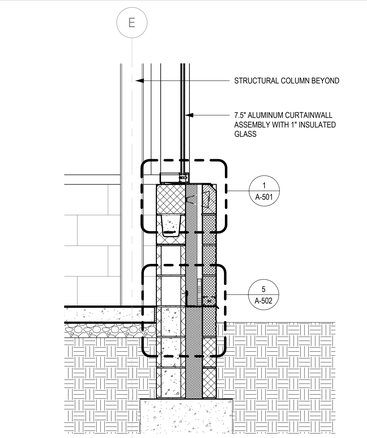
9 / A-313 CORRIDOR ENTRY INT WALL SECTION
SCALE: 3/4" = 1'-0"



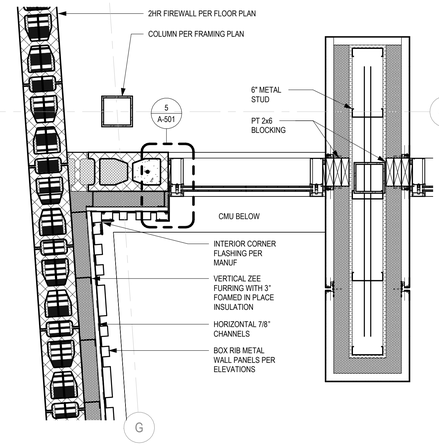
8 / A-313 ENTRY ROOF/KNEEWALL TRANSITION
SCALE: 3" = 1'-0"



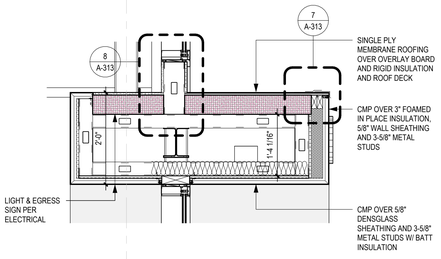
7 / A-313 TPO/CMP ROOF TRANSITION
SCALE: 3" = 1'-0"



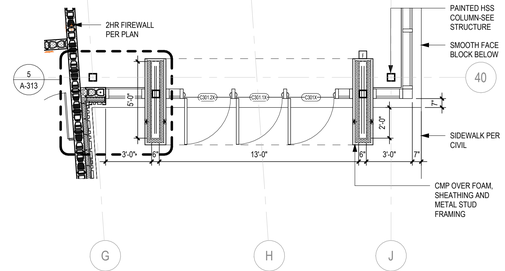
6 / A-313 WALL BASE SECTION AT CURTAINWALL
SCALE: 3/4" = 1'-0"



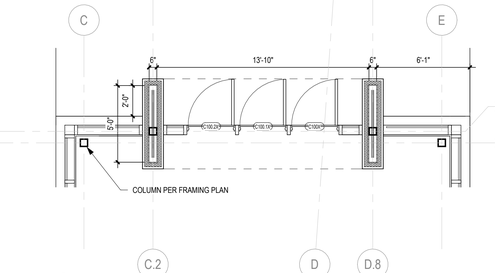
5 / A-313 PLAN DETAIL AT GYM ENTRY
SCALE: 1" = 1'-0"



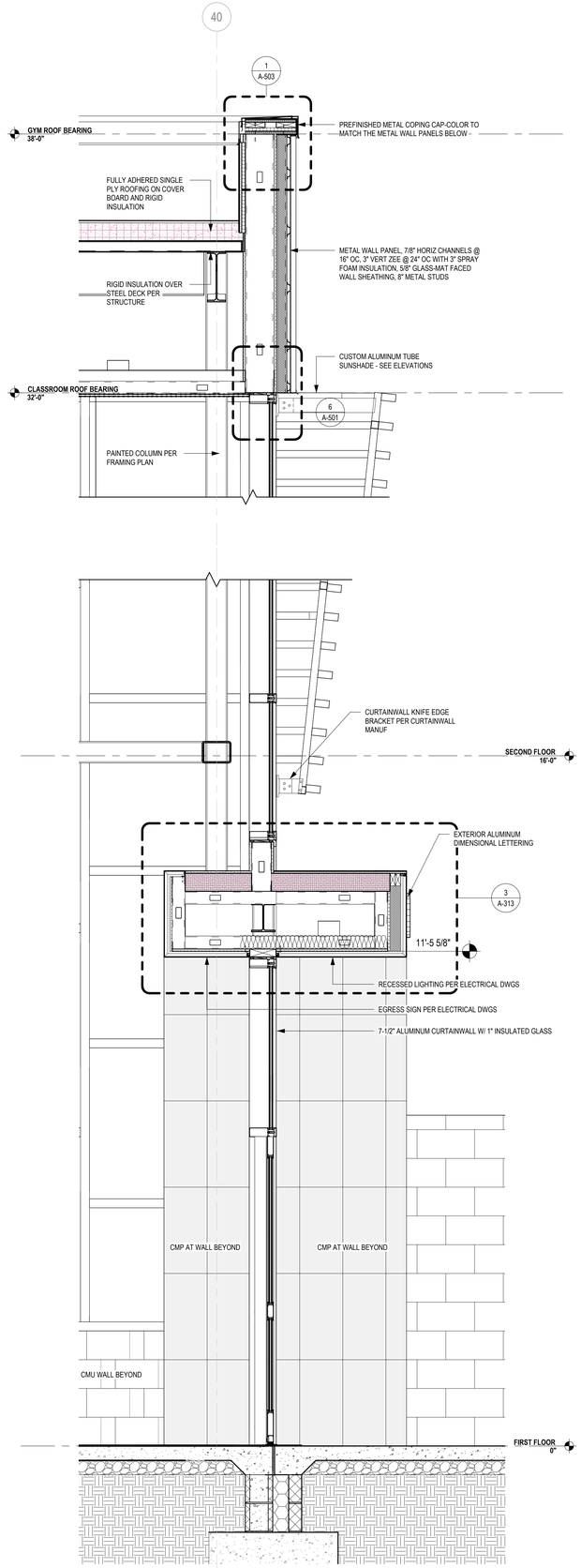
3 / A-313 NORTH/SOUTH ENTRY ENLARGED DETAIL
SCALE: 3/4" = 1'-0"



4 / A-313 SOUTH GYMNASIUM ENTRANCE ENLARGED PLAN
SCALE: 1/4" = 1'-0"



2 / A-313 NORTH AUDITORIUM ENTRANCE ENLARGED PLAN
SCALE: 1/4" = 1'-0"



1 / A-313 AUDITORIUM/GYM ENTRY WALL SECTION
SCALE: 3/4" = 1'-0"

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HARNETT COUNTY SCHOOLS

FLATWOODS MIDDLE SCHOOL

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WALL SECTIONS

A-313

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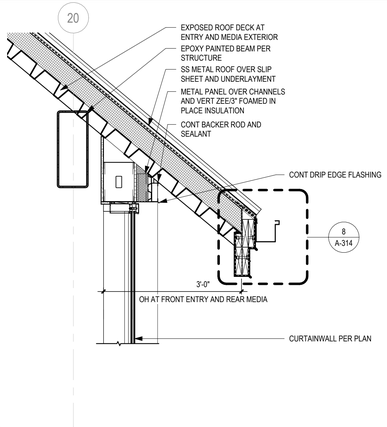
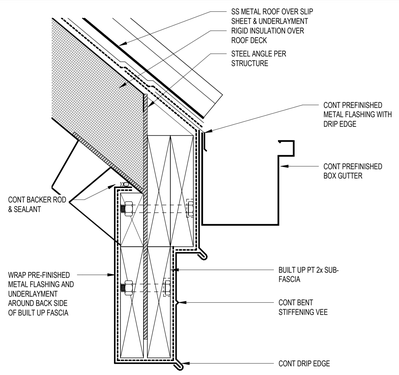
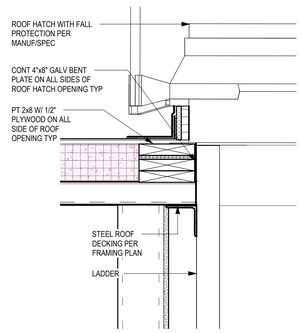


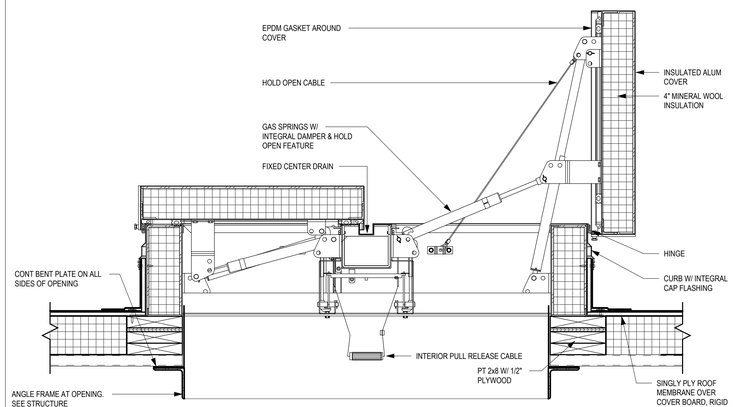
9 A-314 **ENLARGED TOW AT FRONT ENTRY OVERHANG**
SCALE: 3/4" = 1'-0"



8 A-314 **FASCIA DETAIL AT FRONT ENTRY AND MEDIA**
SCALE: 3" = 1'-0"



7 A-314 **ROOF HATCH CURB DETAIL**
SCALE: 1 1/2" = 1'-0"



6 A-314 **SMOKE VENT SECTION AT AUD ROOF**
SCALE: 1 1/2" = 1'-0"

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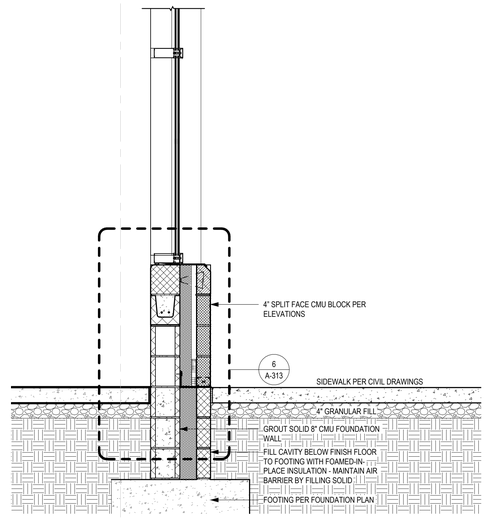
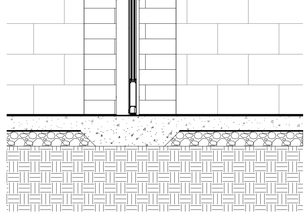
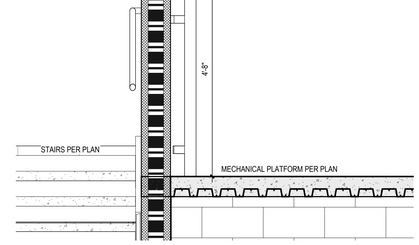


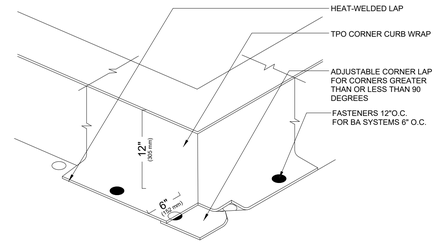
4 A-314 **FRONT ENTRY WALL SECTION**
SCALE: 3/4" = 1'-0"



3 A-314 **INT SECURITY DOOR WALL SECTION**
SCALE: 3/4" = 1'-0"



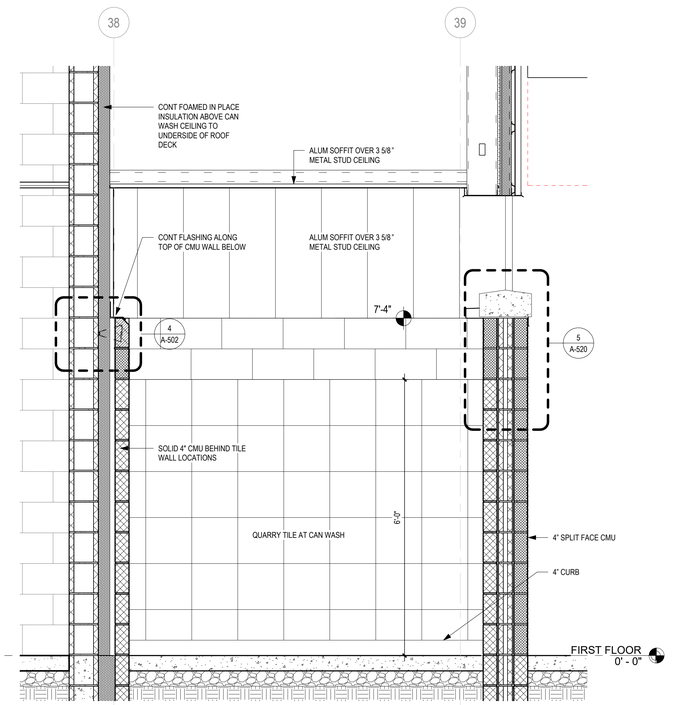
2 A-314 **AUD ROOF HATCH SECTION**
SCALE: 3/4" = 1'-0"



NOTE:

1. FOUR CORNER CURB WRAP PIECES ARE NEEDED TO COMPLETE. VARYING SIZES MAY BE NEEDED TO COMPLETE.
2.CORNER WRAP TO BE ADHERED.

5 A-314 **ROOF CURB CORNER DETAIL**
SCALE: 12" = 1'-0"



1 A-314 **CAN WASH WALL SECTION**
SCALE: 3/4" = 1'-0"

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WALL SECTIONS

A-314

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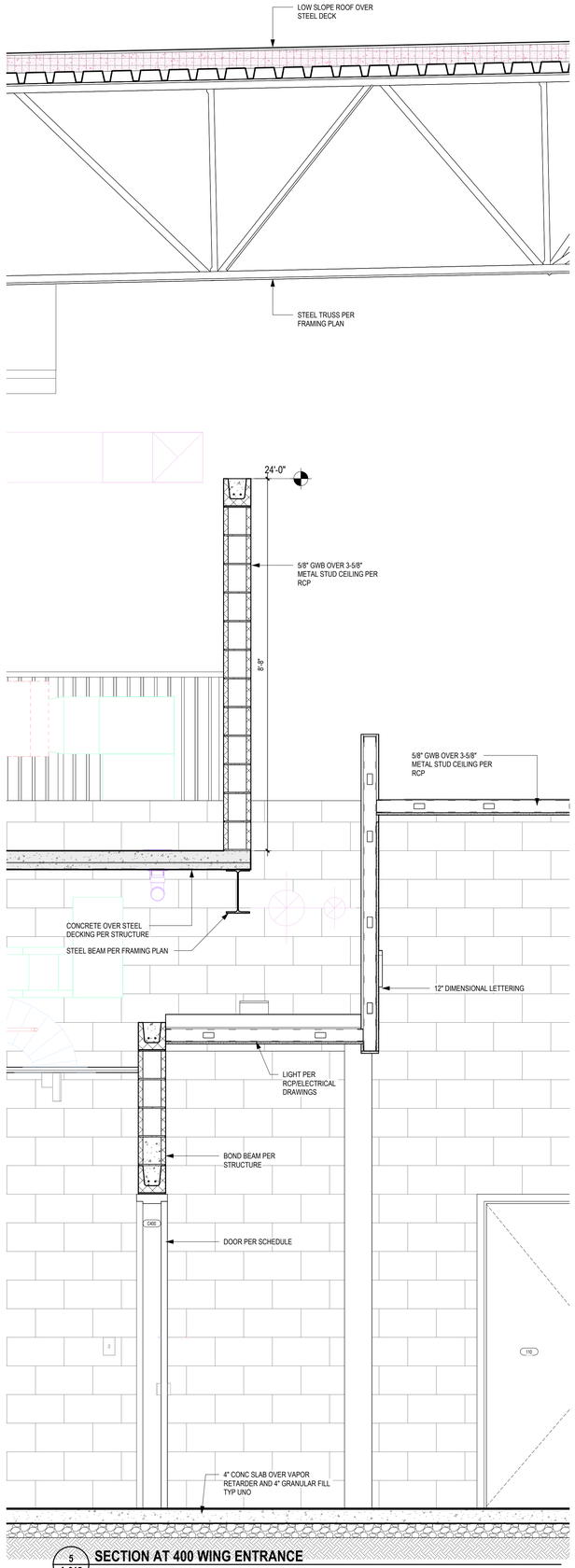
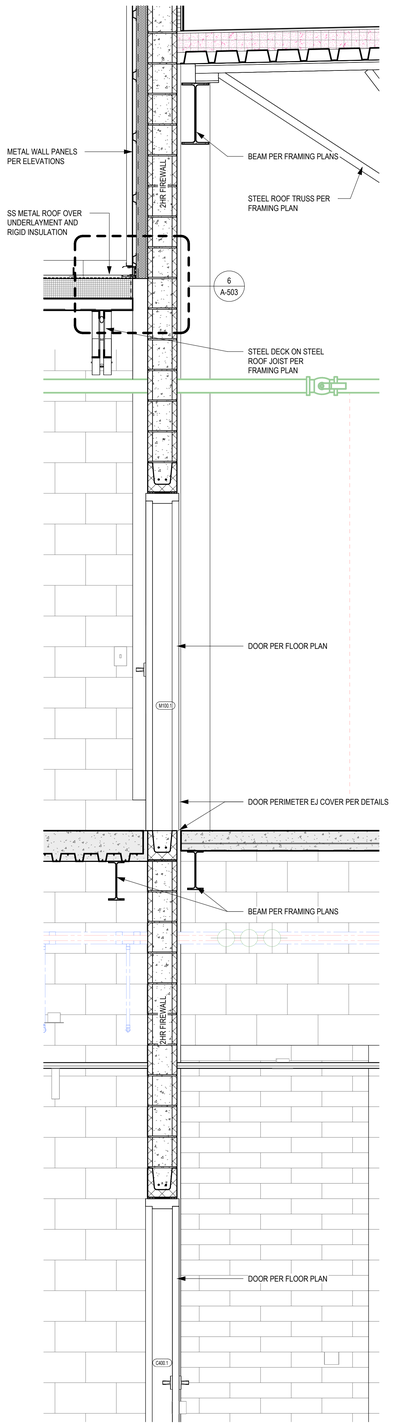
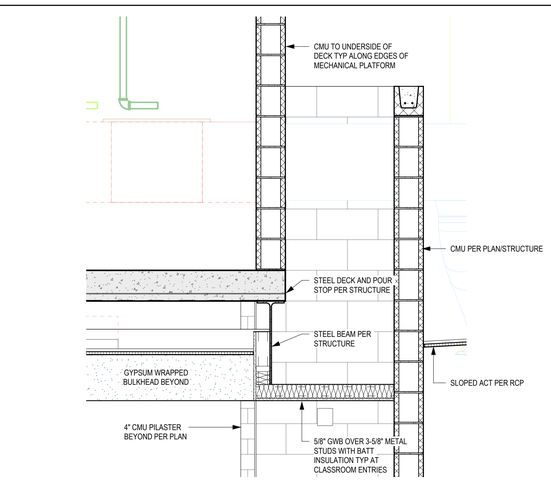


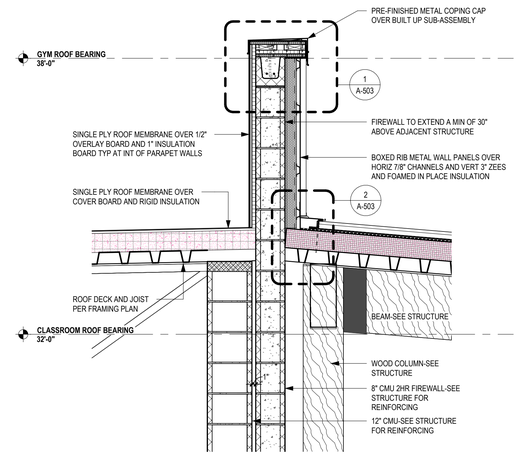
5 / A-315 SECTION AT 400 WING ENTRANCE
SCALE: 3/4" = 1'-0"



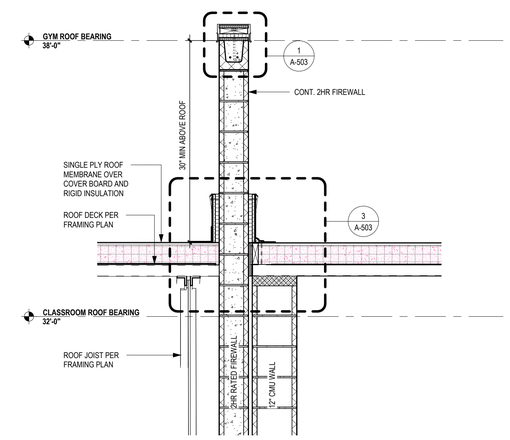
4 / A-315 SECTION AT 400 WING FIREDOOR
SCALE: 3/4" = 1'-0"



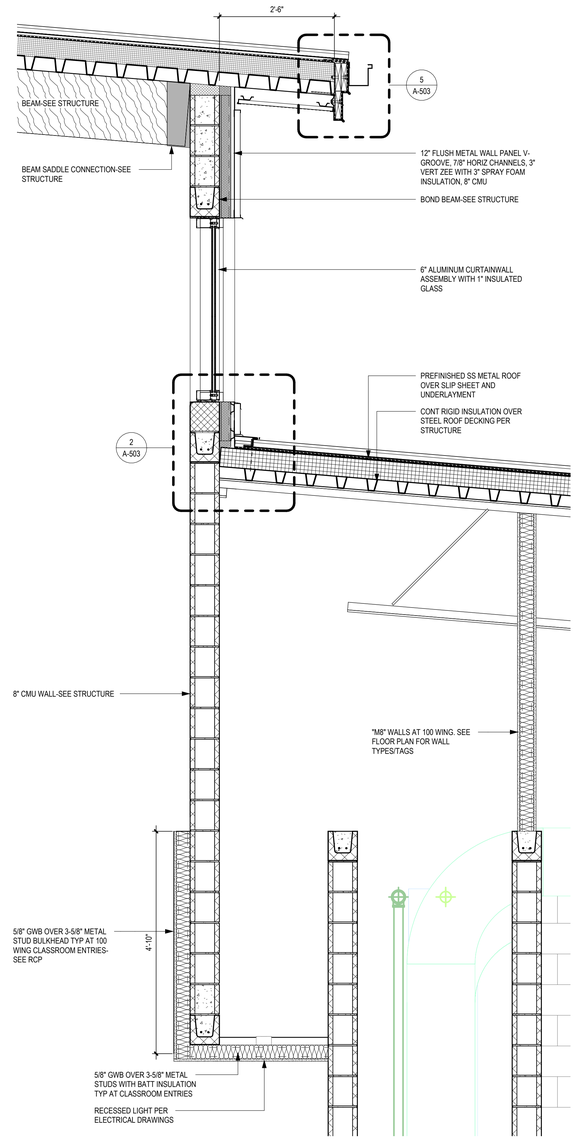
6 / A-315 400/600 WING CLASSROOM ENTRY MECH SECTION
SCALE: 3/4" = 1'-0"



2 / A-315 ROOF SECTION AT CLERESTORY/AUDITORIUM PARAPET
SCALE: 3/4" = 1'-0"



3 / A-315 EJ SECTION AT FLAT ROOF
SCALE: 3/4" = 1'-0"



1 / A-315 ROOF SECTION AT CLERESTORY-AREA 500
SCALE: 3/4" = 1'-0"

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WALL SECTIONS

A-315

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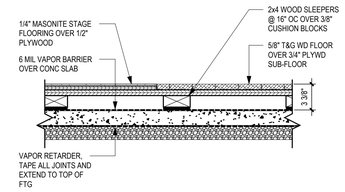
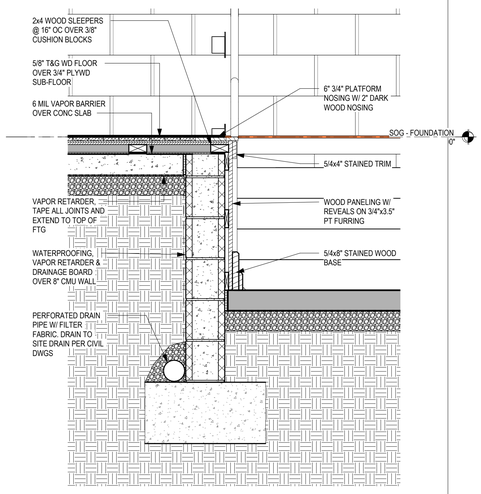
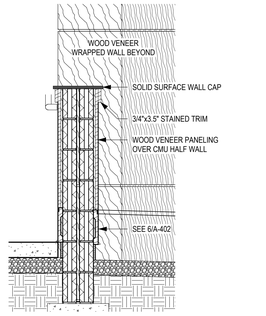


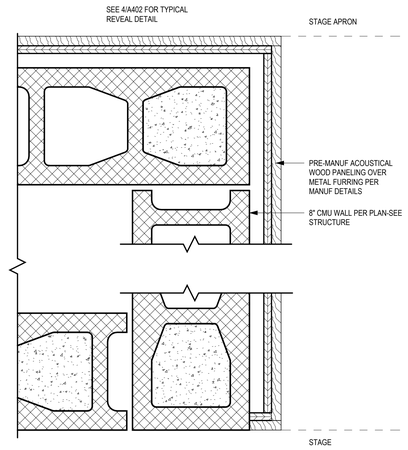
4 / A-401 STAGE/APRON FLOORING TRANSITION DETAIL
SCALE: 1 1/2" = 1'-0"



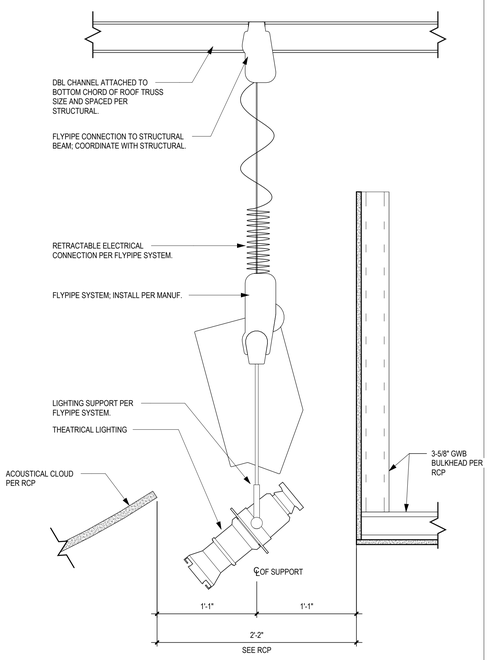
3 / A-401 STAGE APRON ENLARGED DETAIL
SCALE: 1" = 1'-0"



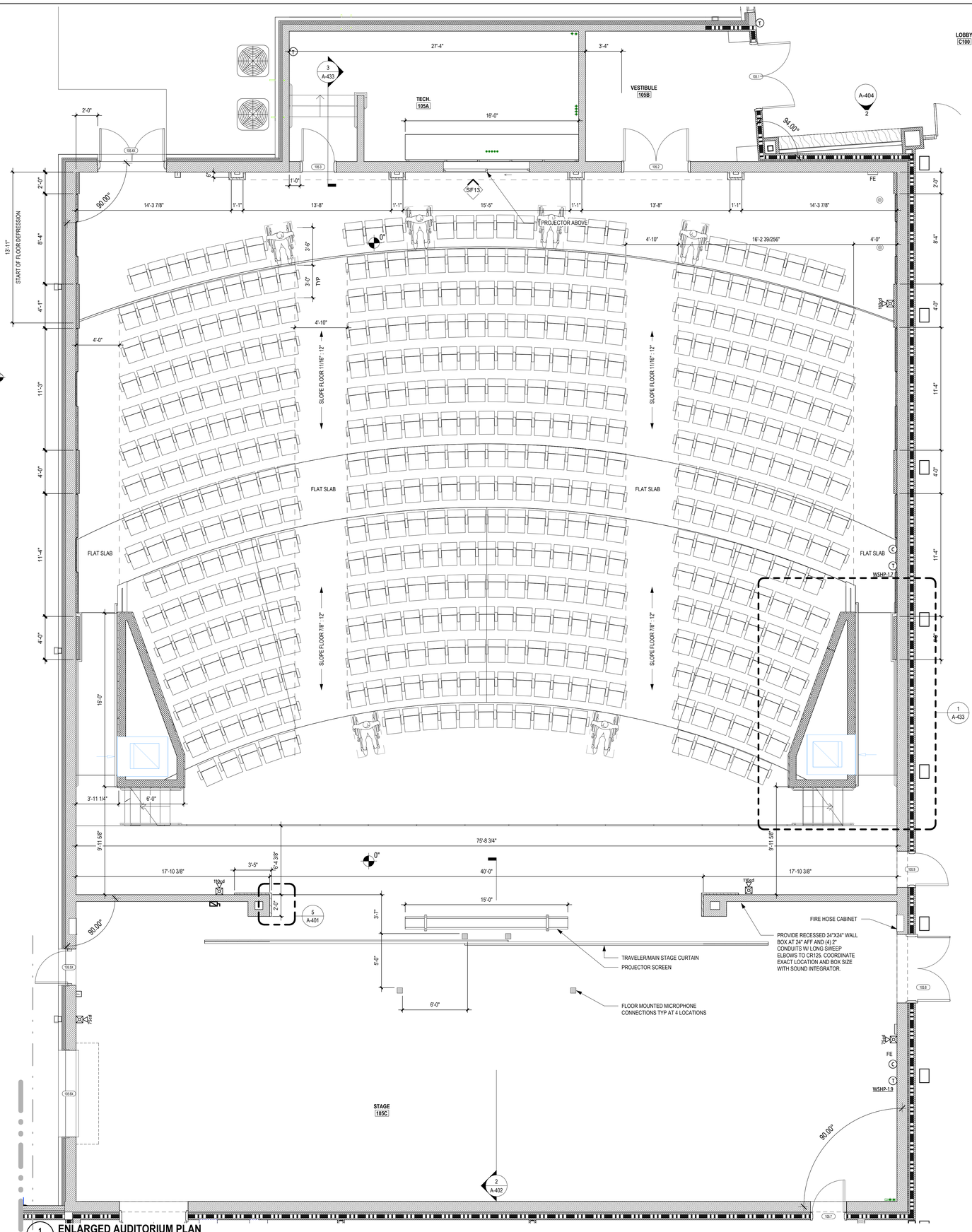
6 / A-401 AUDITORIUM RAMP HALF WALL SECTION
SCALE: 3/4" = 1'-0"



5 / A-401 AUD PROSCENIUM JAMB
SCALE: 3" = 1'-0"



2 / A-401 FRONT OF HOUSE LIGHTING DETAIL
SCALE: 1 1/2" = 1'-0"



1 / A-401 ENLARGED AUDITORIUM PLAN
SCALE: 1/4" = 1'-0"

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ENLARGED AUDITORIUM PLAN

A-401

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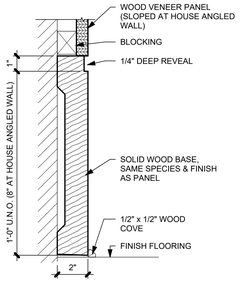
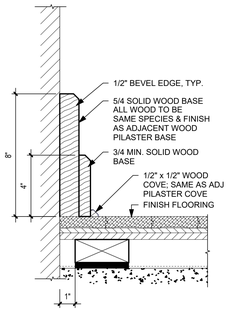
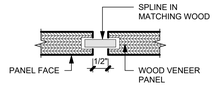


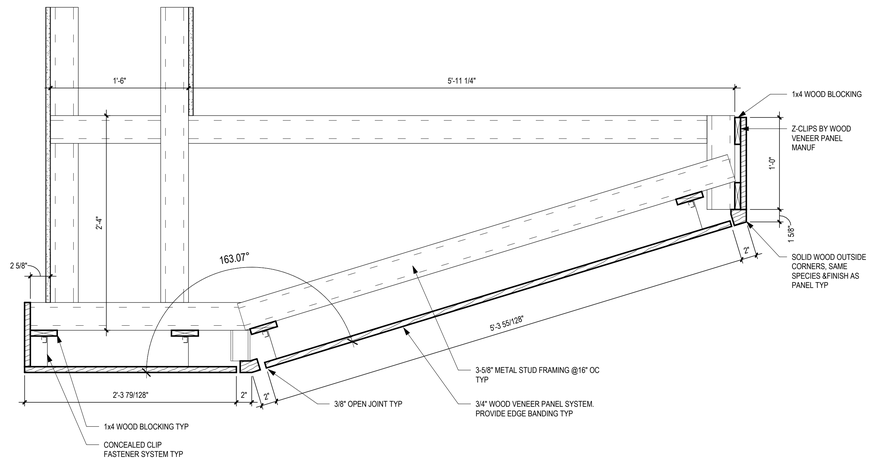
6 A-402 **AUDITORIUM WOOD BASE DETAIL**
SCALE: 3" = 1'-0"



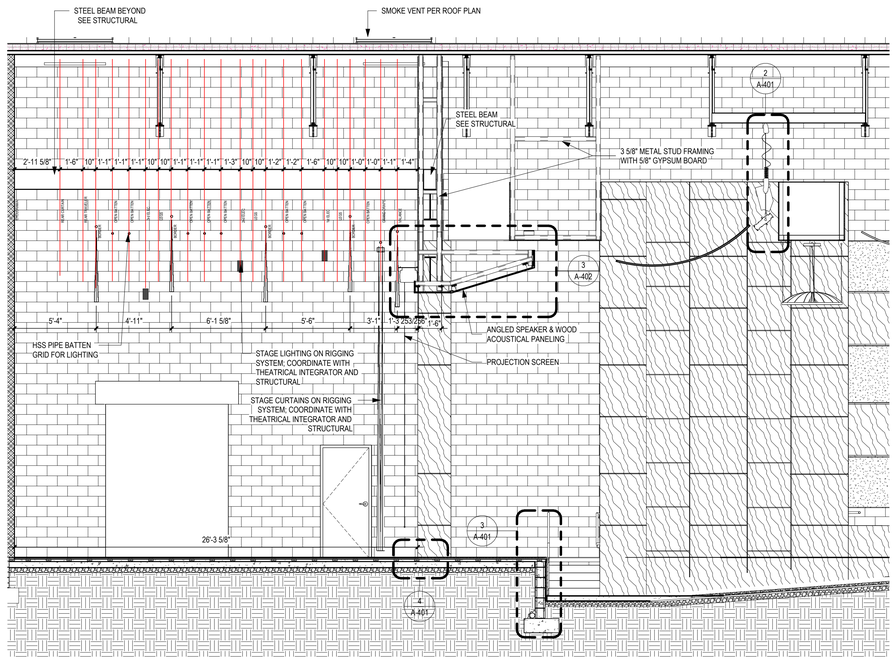
5 A-402 **APRON WOOD BASE DETAIL**
SCALE: 3" = 1'-0"



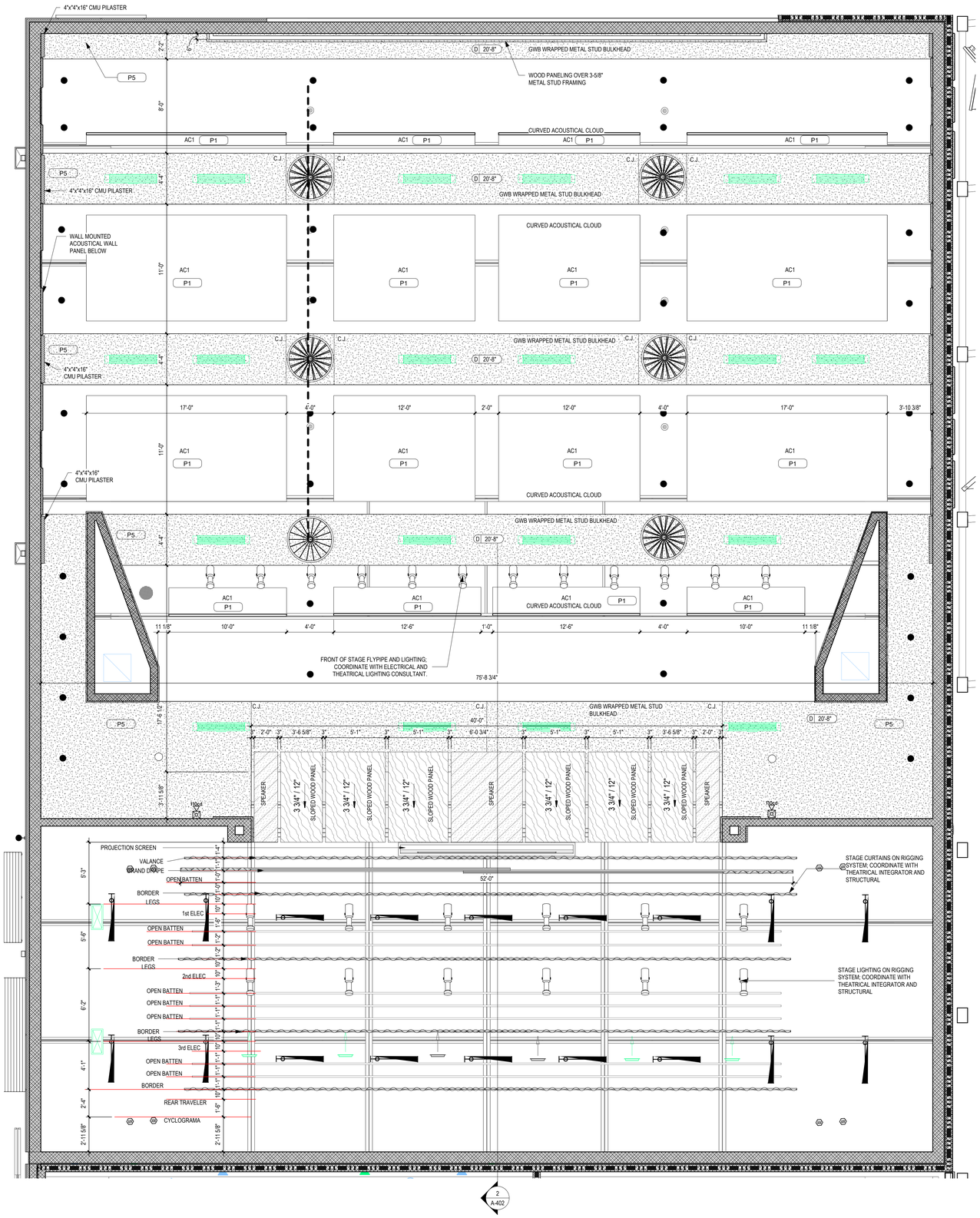
4 A-402 **WOOD PANELING REVEAL DETAIL**
SCALE: 6" = 1'-0"



3 A-402 **PROSCENIUM BULKHEAD FRAMING SECTION**
SCALE: 1 1/2" = 1'-0"



2 A-402 **THEATRICAL EQUIPMENT SECTION**
SCALE: 1/4" = 1'-0"



1 A-402 **REFLECTED CEILING PLAN-AUDITORIUM**
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ENLARGED AUDITORIUM REFLECTIVE CEILING PLAN

A-402

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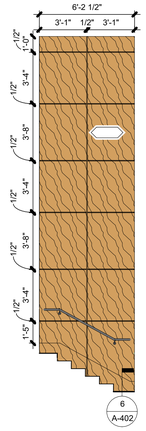
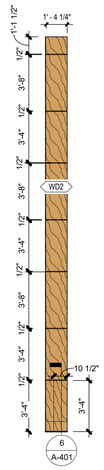
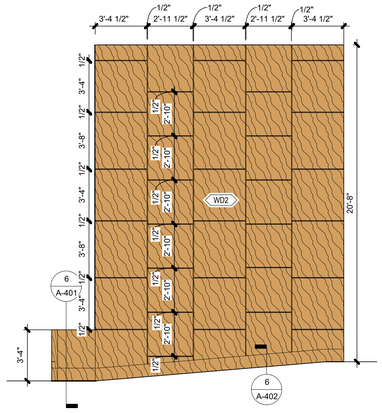


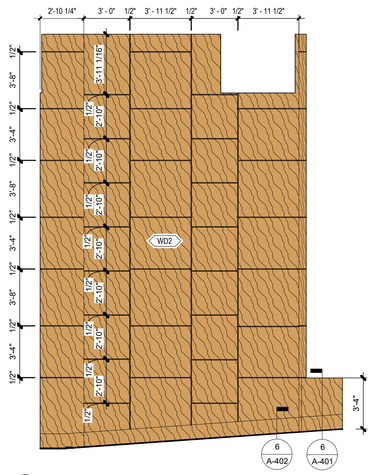
8 A-403 WALL AT STAIRS
SCALE: 1/4" = 1'-0"



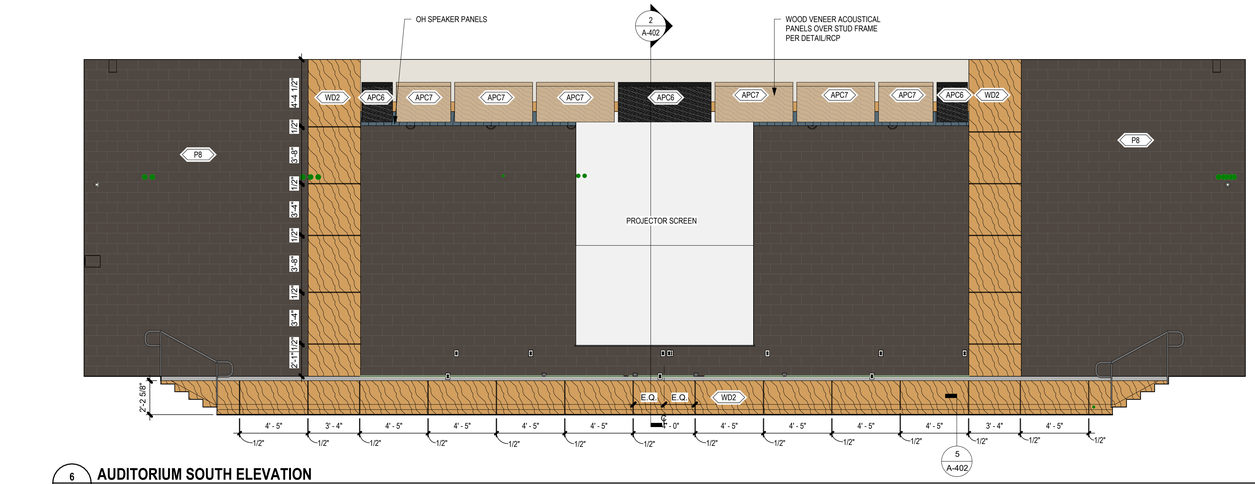
7 A-403 ANGLE WALL ELEVATION
SCALE: 1/4" = 1'-0"



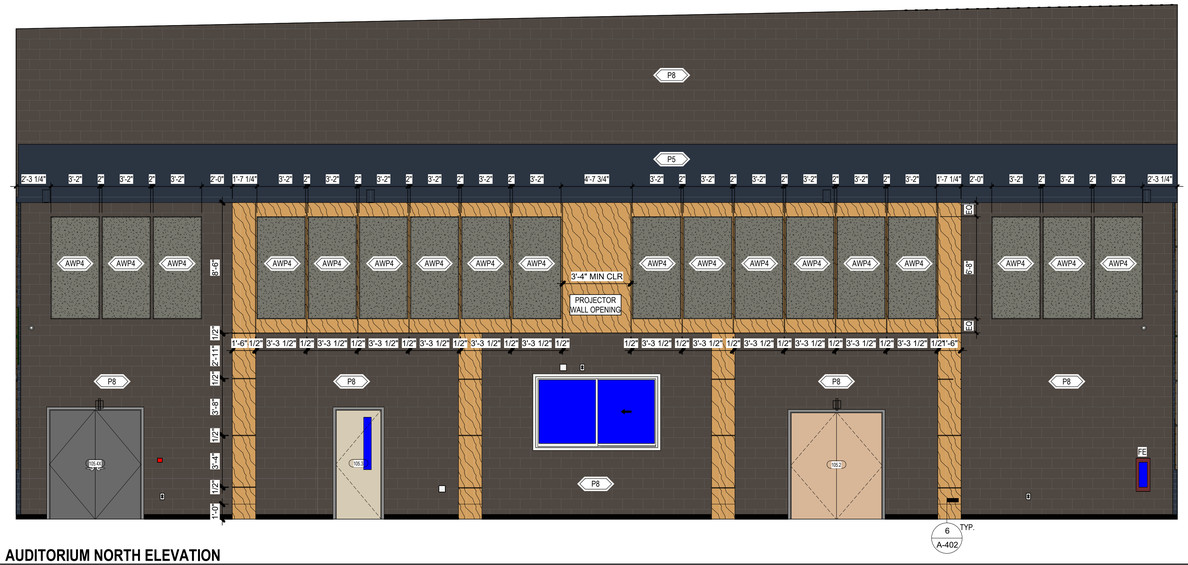
5 A-403 RAMP WALL ELEVATION
SCALE: 1/4" = 1'-0"



4 A-403 AUDITORIUM ANGLE WALL ELEVATION
SCALE: 1/4" = 1'-0"



6 A-403 AUDITORIUM SOUTH ELEVATION
SCALE: 1/4" = 1'-0"


P8
P5
2'-3 1/4"
3'-2"
2"
3'-2"
2"
3'-2"
2'-0"
1'-7 1/4"
3'-2"
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4'-7 3/4"
3'-2"
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3'-2"
1'-7 1/4"
2'-0"
3'-2"
2"
3'-2"
2"
3'-2"
2'-3 1/4"
AWP4
3'-4"
3'-4" MIN CLR
PROJECTOR WALL OPENING
1'-6" 1/2"
3'-3 1/2"
1/2"
3'-3 1/2"
1/2"
3'-3 1/2"

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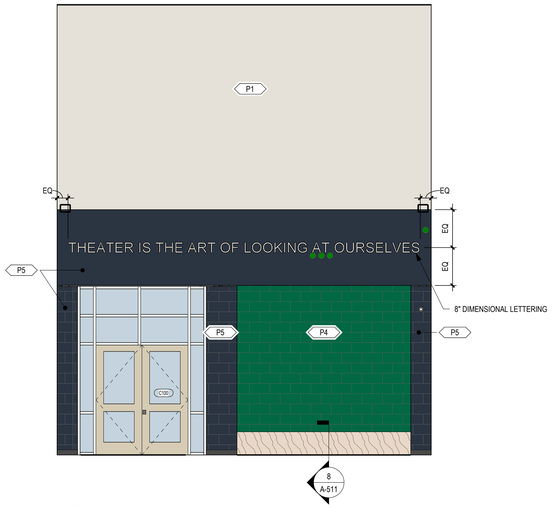
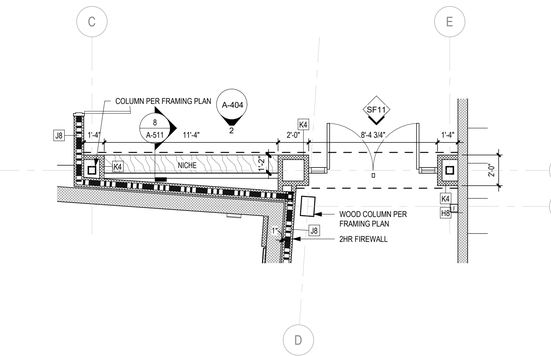


2 A-404 **AUDITORIUM LOBBY SOUTH WALL ELEV.**
SCALE: 1/4" = 1'-0"



1 A-404 **NORTH CORRIDOR ENTRANCE ENLARGED PLAN**
SCALE: 1/4" = 1'-0"

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ENERGY STAR PARTNER

No.	Date	Description

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INTERIOR ELEVATIONS & ENLARGED PLAN - AUDITORIUM LOBBY

A-404

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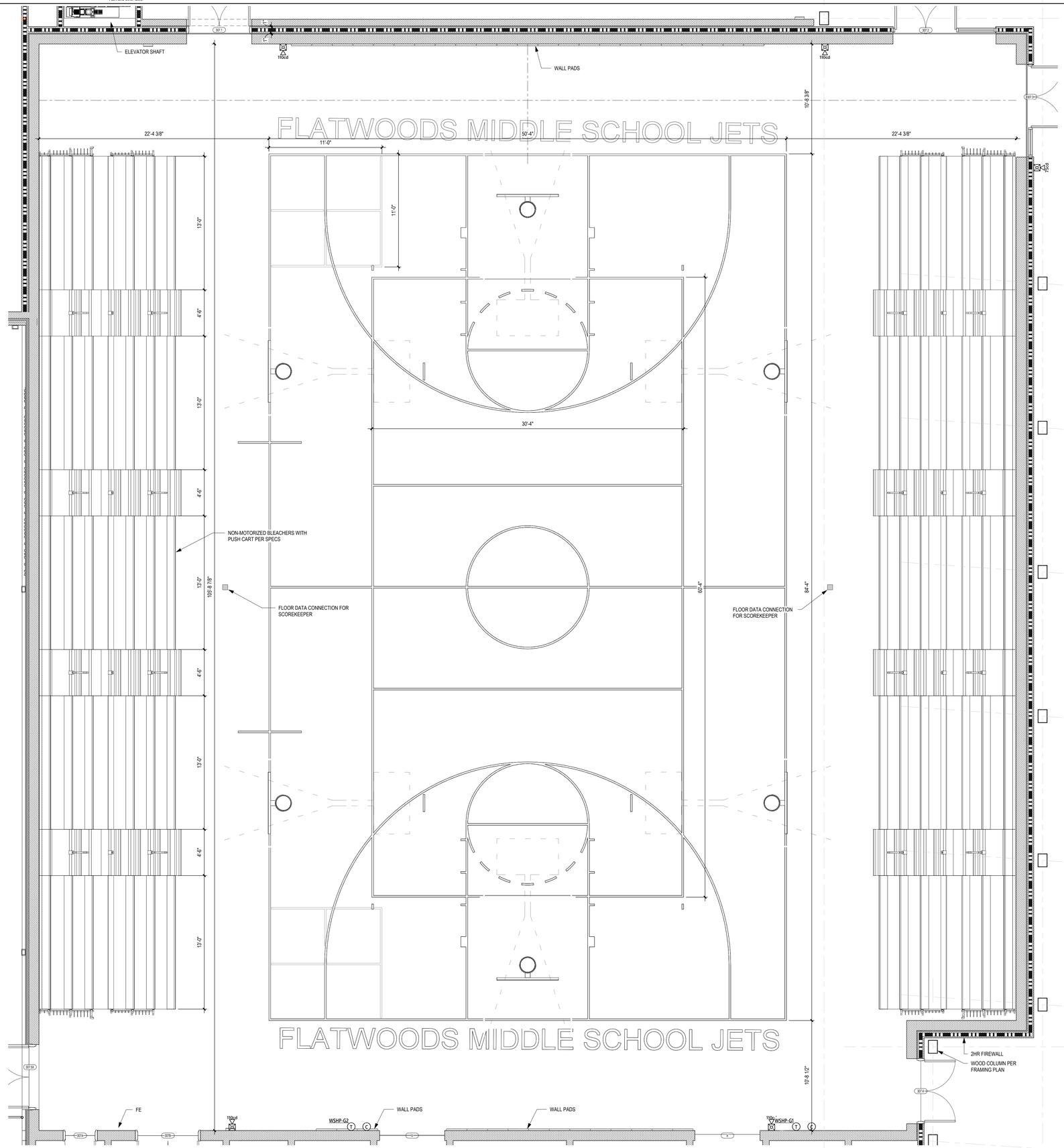

1 A-405 **ENLARGED GYMNASIUM PLAN**
SCALE: 1/4" = 1'-0"

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ENLARGED GYMNASIUM PLAN

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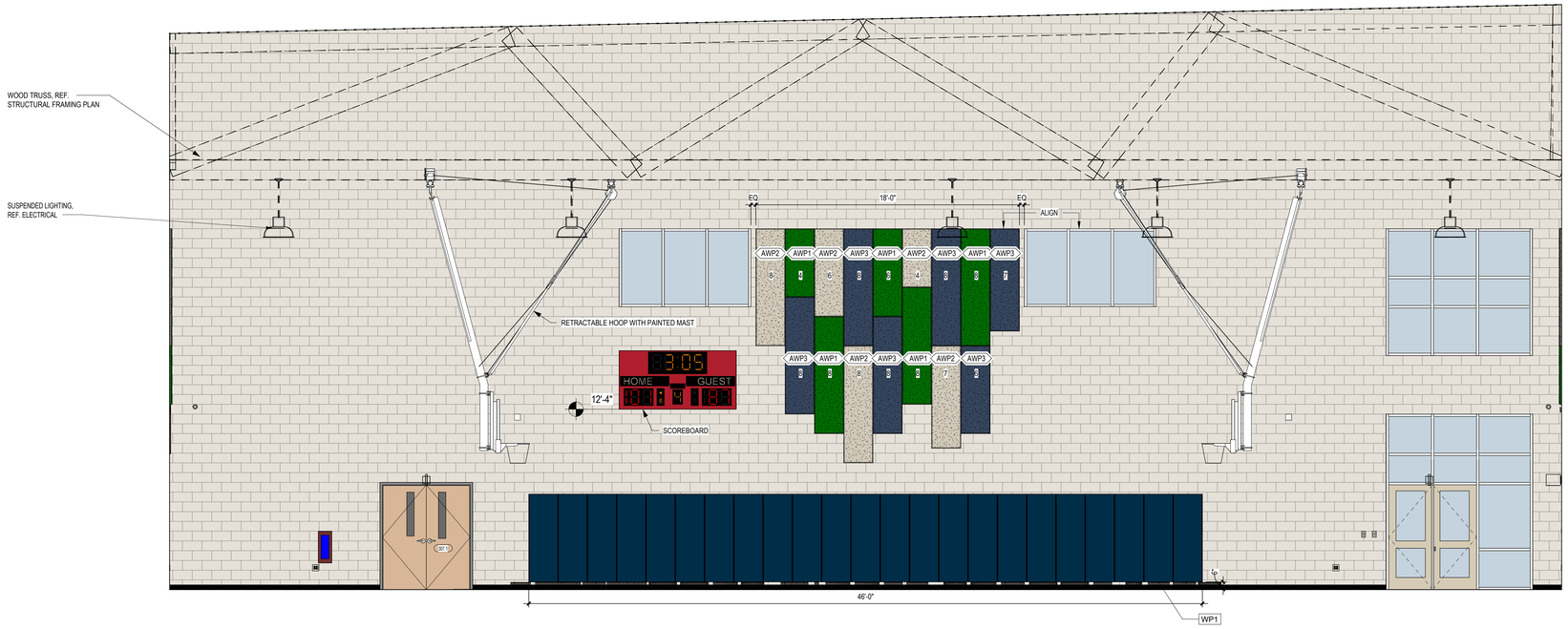
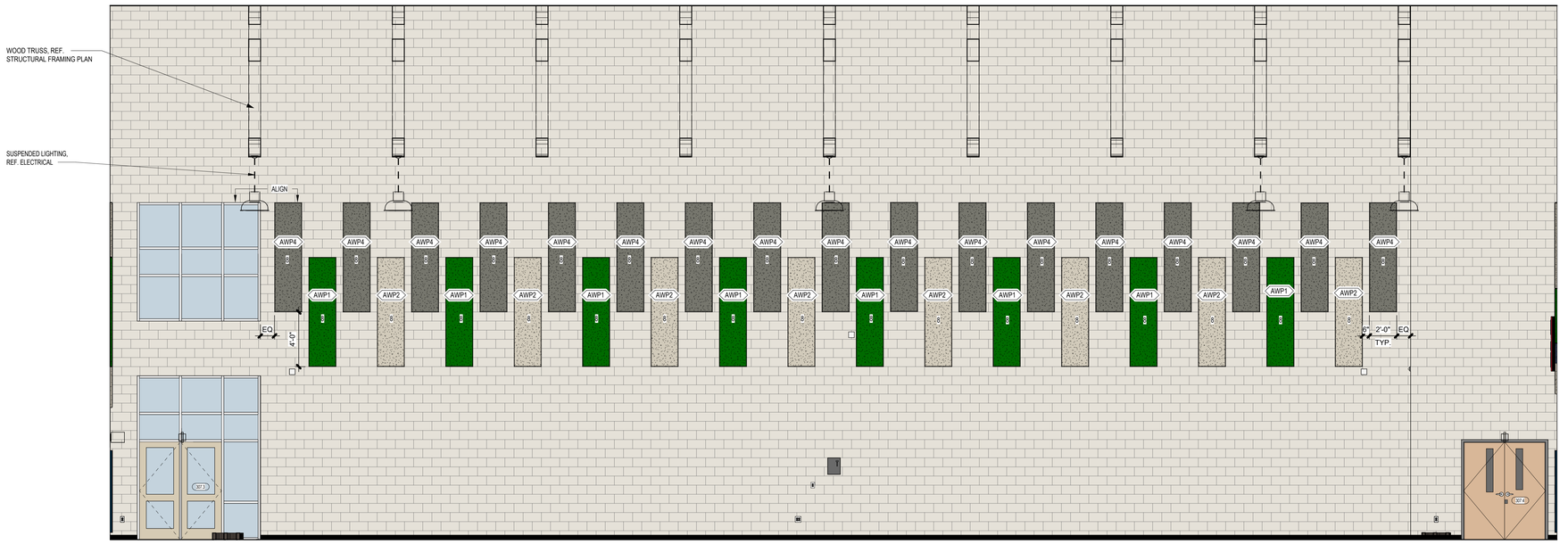


1 A-406
GYM NORTH ELEVATION
SCALE: 1/4" = 1'-0"



2 A-406
GYM EAST ELEVATION
SCALE: 1/4" = 1'-0"

ACOUSTICAL WALL PANEL HEIGHT LEGEND
2= 2'-0"
3= 3'-0"
3.9= 3'-9"
4= 4'-0"
4.8= 4'-8"
6= 6'-0"
7= 7'-0"
8= 8'-0"

NOTE:
1) ALL AWP IN THE GYMNASIUM ARE 2' WIDE UNO
2) ALL AWP HEIGHTS ALONG THE SIDE WALLS ARE 8'-0" TALL.
3) SEE INTERIOR FINISH SCHEDULE FOR COLORS.

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INTERIOR ELEVATIONS - GYMNASIUM

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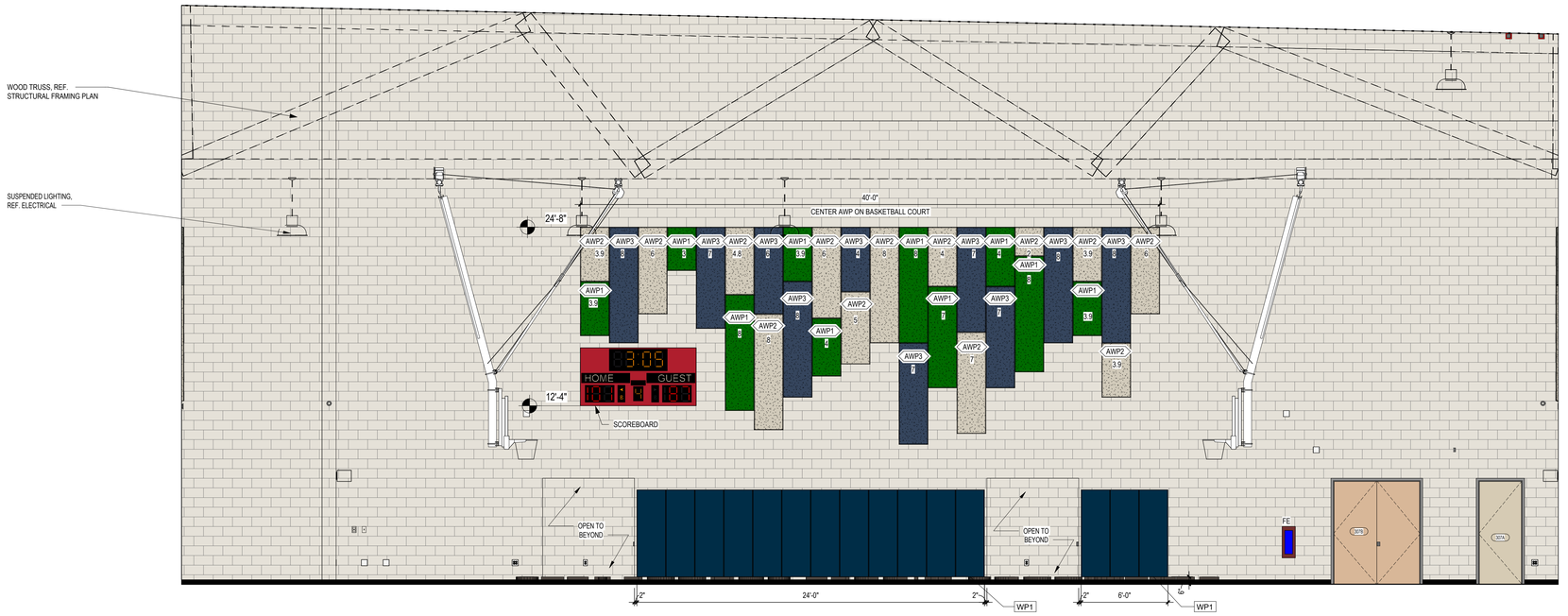
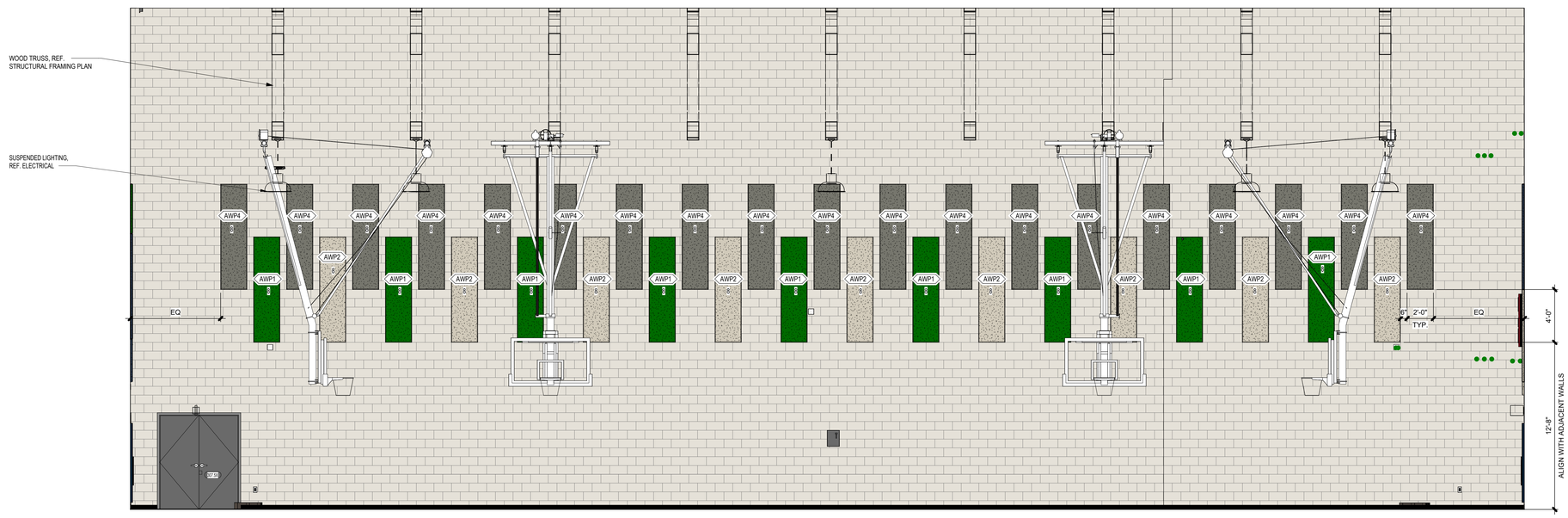


1 A-407 **GYMNASIUM SOUTH ELEVATION**

SCALE: 1/4" = 1'-0"



2 A-407 **GYMNASIUM WEST ELEVATION**

SCALE: 1/4" = 1'-0"

ACOUSTICAL WALL PANEL HEIGHT LEGEND

2= 2'-0"
3= 3'-0"
3.9= 3'-9"
4= 4'-0"
4.8= 4'-8"
6= 6'-0"
7= 7'-0"
8= 8'-0"

NOTE:
1) ALL AWP IN THE GYMNASIUM ARE 2' WIDE UNO
2) ALL AWP HEIGHTS ALONG THE SIDE WALLS ARE 8'-0" TALL.
3) SEE INTERIOR FINISH SCHEDULE FOR COLORS.

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INTERIOR ELEVATIONS - GYMNASIUM

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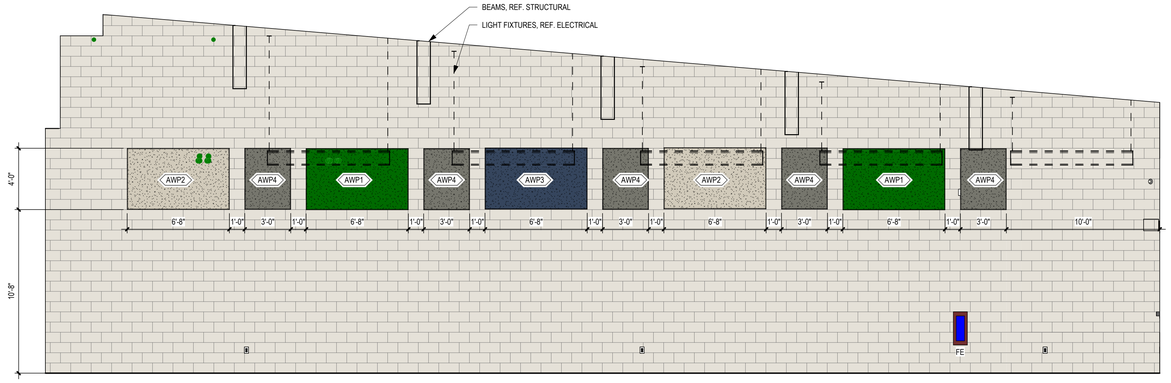
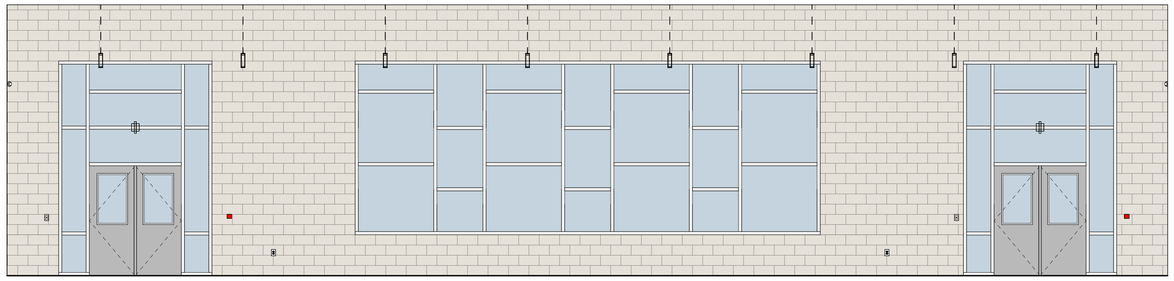
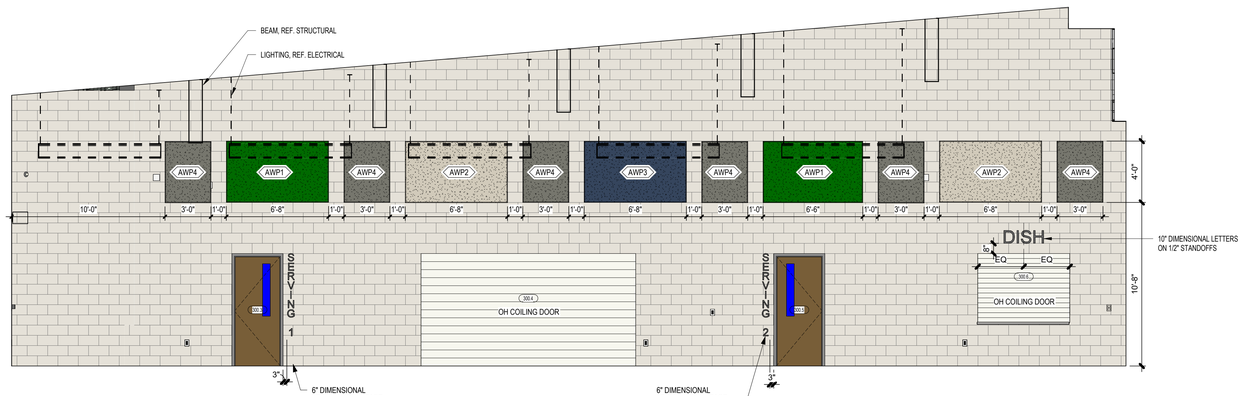


1 A-408 **CAFETERIA NORTH ELEVATION**
SCALE: 1/4" = 1'-0"



2 A-408 **CAFETERIA EAST ELEVATION**
SCALE: 1/4" = 1'-0"



3 A-408 **CAFETERIA SOUTH ELEVATION**
SCALE: 1/4" = 1'-0"

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INTERIOR ELEVATIONS - CAFETERIA

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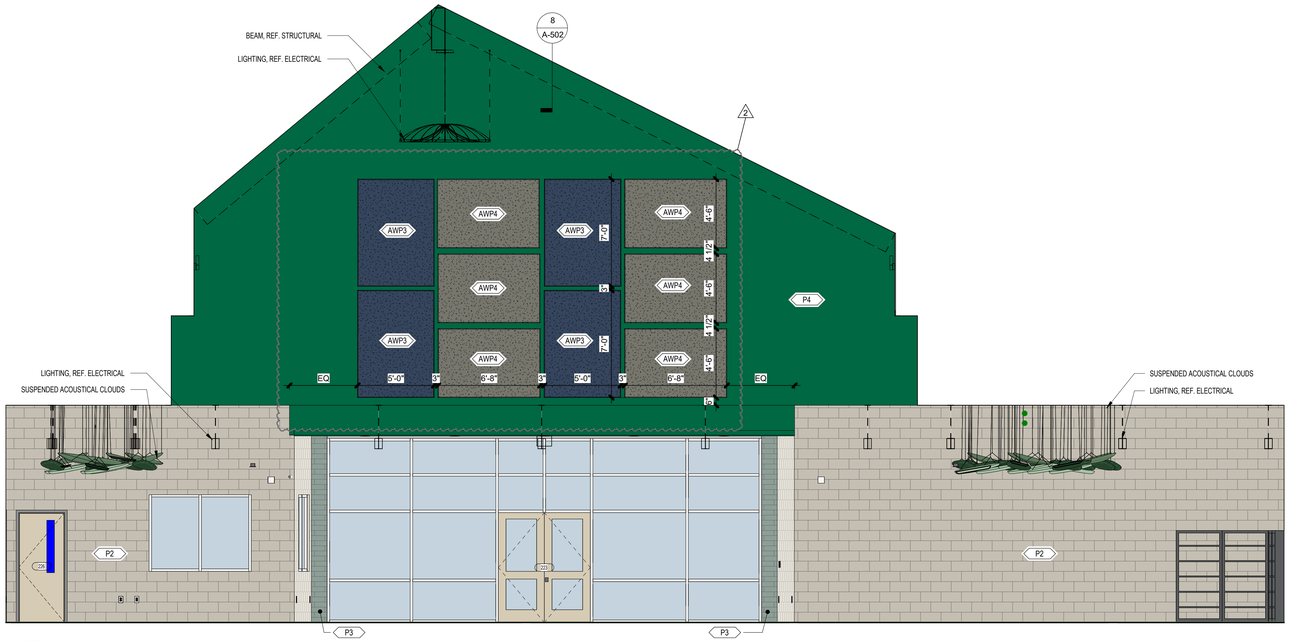
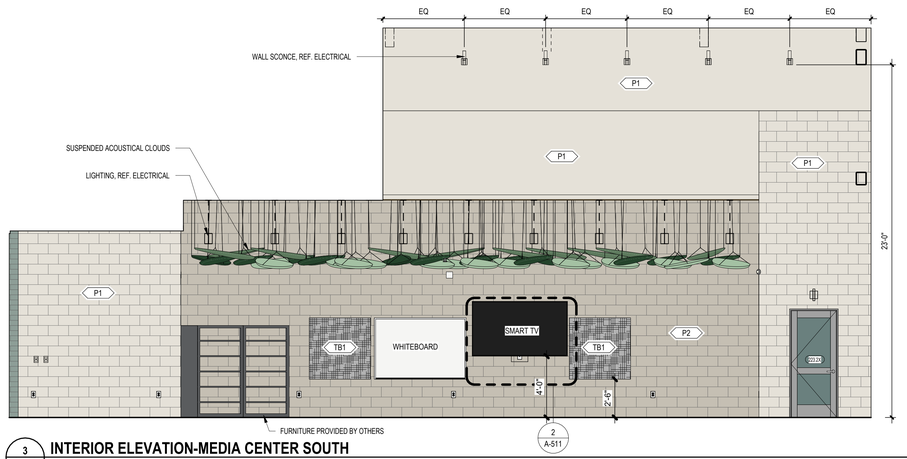
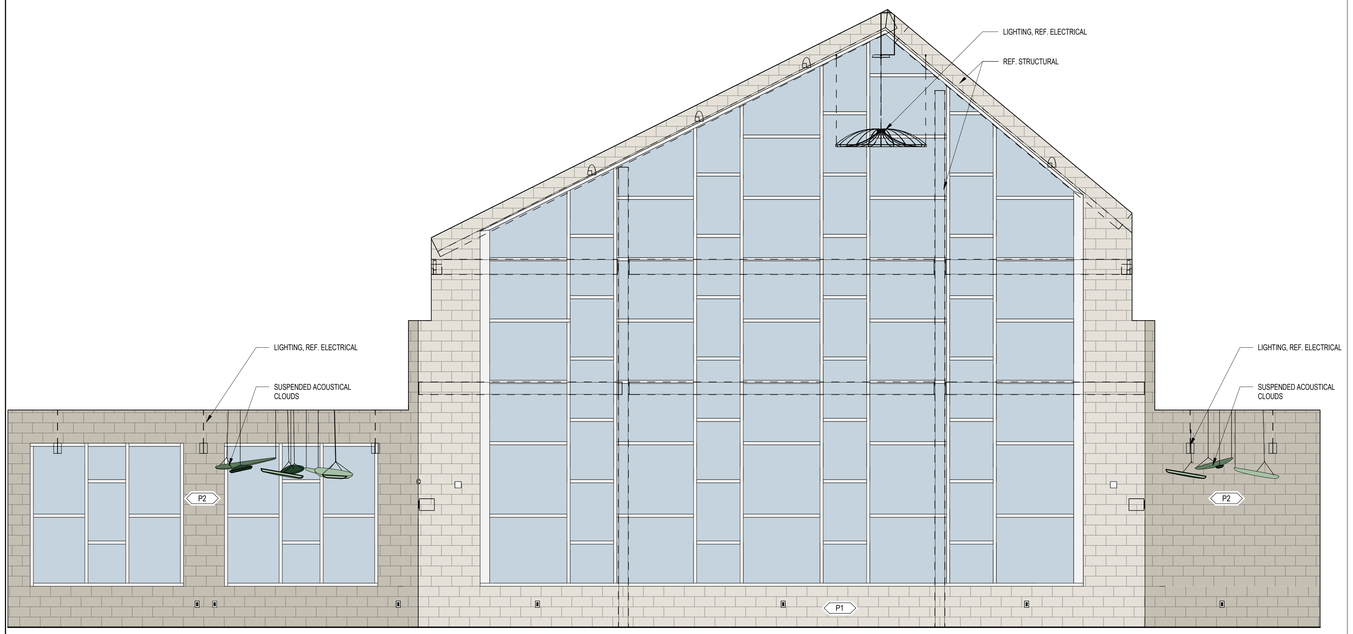


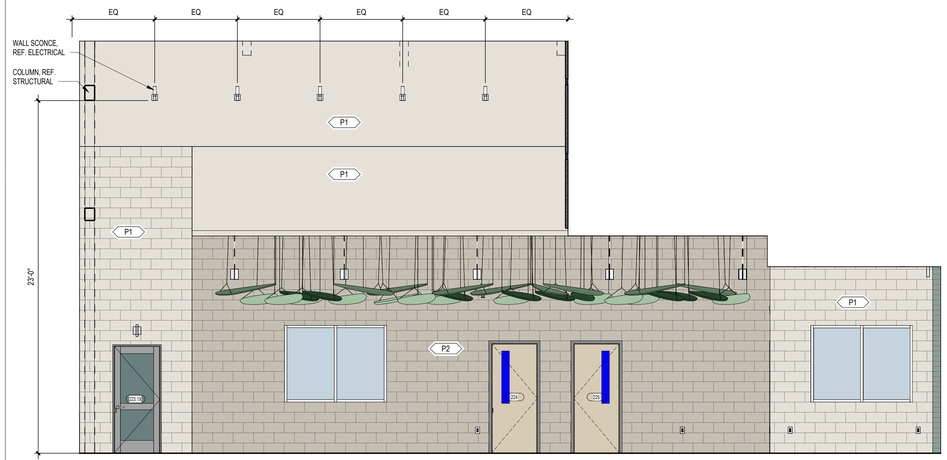
4 A-409 **INTERIOR ELEVATION - MEDIA CENTER EAST**
SCALE: 1/4" = 1'-0"



3 A-409 **INTERIOR ELEVATION-MEDIA CENTER SOUTH**
SCALE: 1/4" = 1'-0"



2 A-409 **INTERIOR ELEVATION - MEDIA CENTER WEST**
SCALE: 1/4" = 1'-0"



1 A-409 **INTERIOR ELEVATION - MEDIA CENTER NORTH**
SCALE: 1/4" = 1'-0"

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INTERIOR ELEVATIONS - MEDIA CENTER

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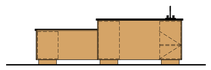
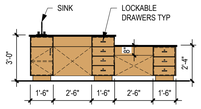
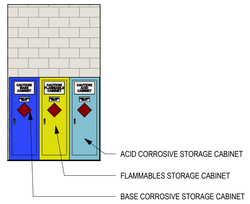


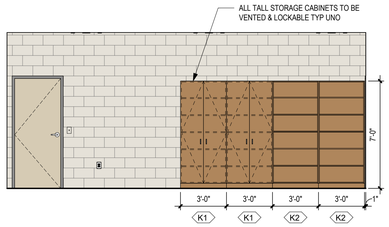
10 A-410 **TYP SCIENCE INSTRUCTION MILLWORK FRONT ELEV**
SCALE: 1/4" = 1'-0"



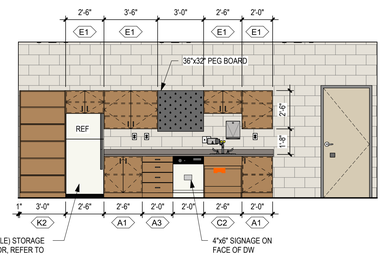
9 A-410 **TYP SCIENCE INSTRUCTION MILLWORK ELEV**
SCALE: 1/4" = 1'-0"



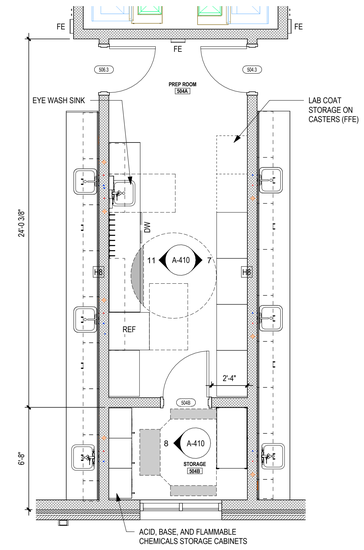
8 A-410 **PREP ROOM STORAGE ELEVATION**
SCALE: 1/4" = 1'-0"



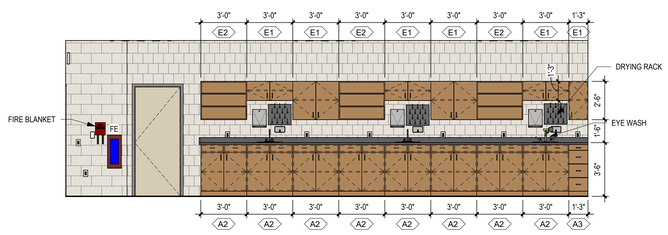
7 A-410 **PREP ROOM MILLWORK ELEV**
SCALE: 1/4" = 1'-0"



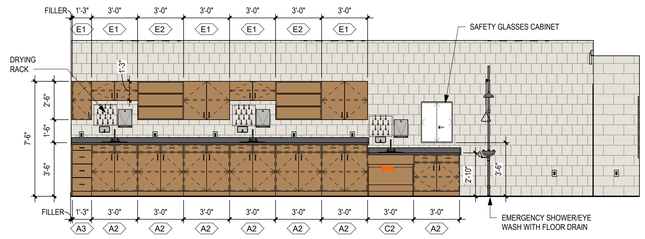
11 A-410 **PREP ROOM MILLWORK ELEV 2**
SCALE: 1/4" = 1'-0"



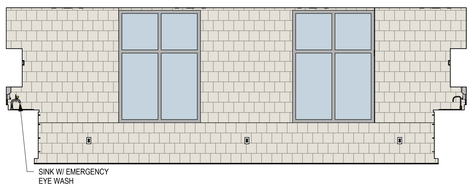
2 A-410 **ENLARGED SCIENCE PREP ROOM PLAN**
SCALE: 1/4" = 1'-0"



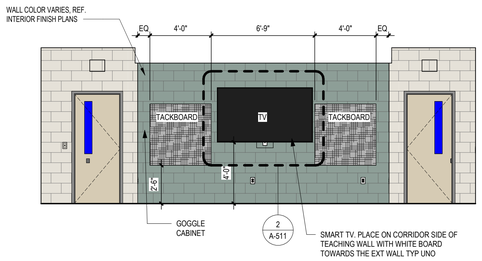
6 A-410 **TYP SCIENCE SIDE MILLWORK ELEV 2**
SCALE: 1/4" = 1'-0"



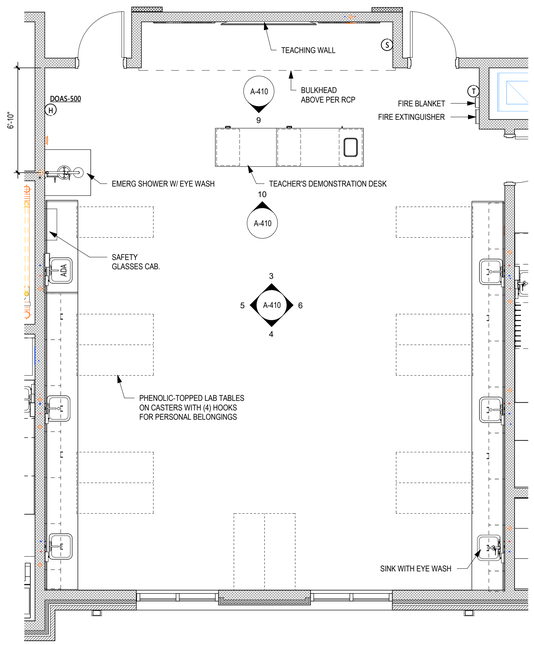
5 A-410 **TYP SCIENCE SIDE MILLWORK ELEV**
SCALE: 1/4" = 1'-0"



4 A-410 **TYP 500/600 WING SCIENCE EXT WALL MILLWORK ELEV**
SCALE: 1/4" = 1'-0"



3 A-410 **TYP SCIENCE FRONT MILLWORK ELEV.**
SCALE: 1/4" = 1'-0"



1 A-410 **ENLARGED SCIENCE LAB PLAN**
SCALE: 1/4" = 1'-0"

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ENLARGED PLANS & INTERIOR ELEVATIONS - SCIENCE LABS

A-410

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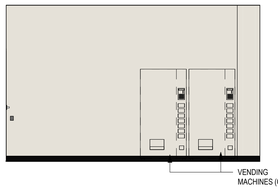
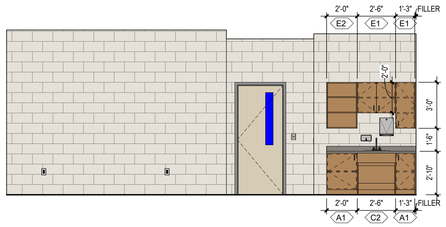
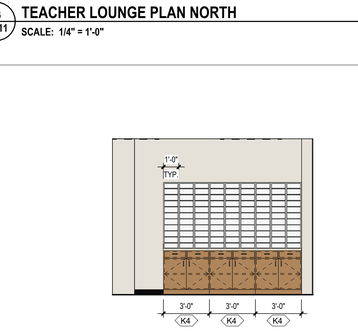


16 A-411 **TEACHER LOUNGE PLAN NORTH**
SCALE: 1/4" = 1'-0"

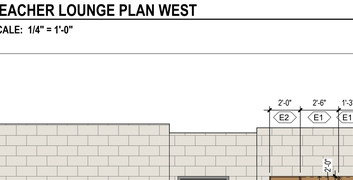
15 A-411 **TEACHER LOUNGE PLAN WEST**
SCALE: 1/4" = 1'-0"



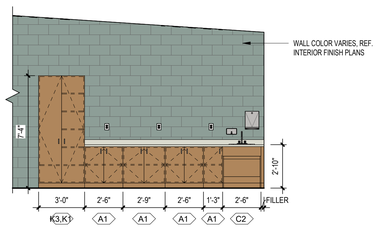
14 A-411 **HEALTH ROOM 316,317 MILLWORK ELEVATION**
SCALE: 1/4" = 1'-0"



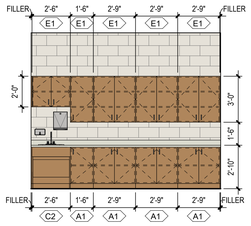
13 A-411 **222 WORKROOM MILLWORK ELEVATION**
SCALE: 1/4" = 1'-0"



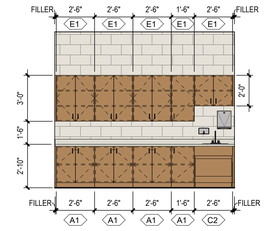
12 A-411 **TYP TEACHER WORK ROOM MILLWORK ELEV**
SCALE: 1/4" = 1'-0"



11 A-411 **EC S/C CLASSROOM 403, 501, 601, STEM 602 (MIR) WING TYP MILLWORK ELEV**
SCALE: 1/4" = 1'-0"



10 A-411 **TYP 500/600 WING CLASSROOM MILLWORK ELEV 2**
SCALE: 1/4" = 1'-0"



9 A-411 **TYP 500/600 WING CLASSROOM MILLWORK ELEV**
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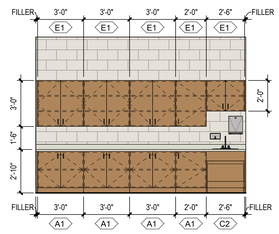

8 A-411 **CLASSROOM 404/405 MILLWORK**
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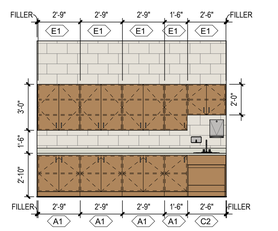

7 A-411 **TYP 400 WING CLASSROOM MILLWORK**
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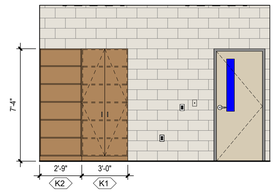
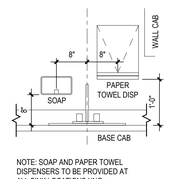
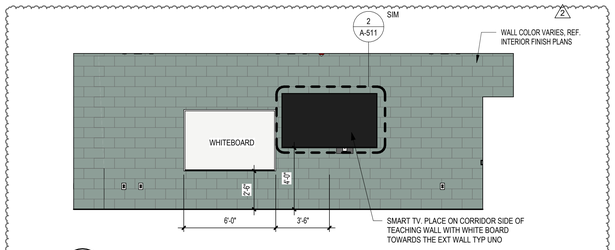


6 A-411 **TYP RESOURCE ROOM MILLWORK ELEV**
SCALE: 1/4" = 1'-0"

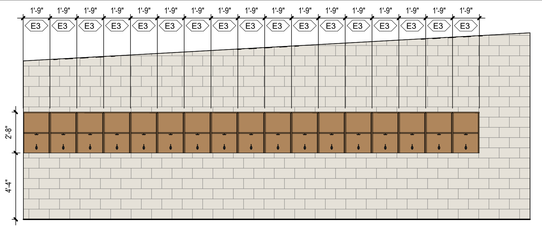


NOTE: SOAP AND PAPER TOWEL DISPENSERS TO BE PROVIDED AT ALL SINK LOCATIONS UNO

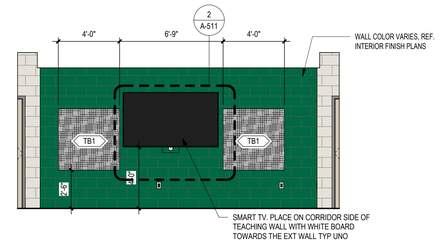
5 A-411 **MOUNTING DETAIL AT SINK**
SCALE: 3/4" = 1'-0"



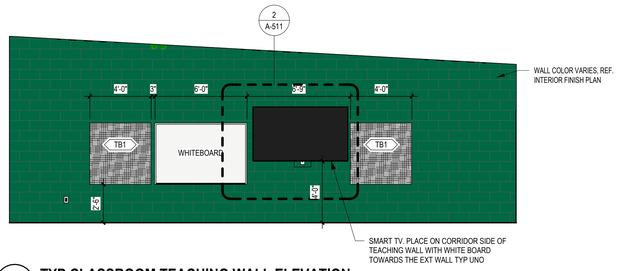
4 A-411 **TYP RESOURCE ROOM TEACHING WALL ELEV.**
SCALE: 1/4" = 1'-0"



3 A-411 **TYP CLASSROOM CUBBY ELEVATION**
SCALE: 1/4" = 1'-0"



2 A-411 **ALT TEACHING WALL ELEVATION**
SCALE: 1/4" = 1'-0"



1 A-411 **TYP CLASSROOM TEACHING WALL ELEVATION**
SCALE: 1/4" = 1'-0"

CASEWORK GENERAL NOTES:

1. ALL FINISHES IN FAMILY SCIENCE CLASSROOMS TO BE HEALTH GRADE FINISHES. REFER TO FINISH PLAN FOR SPECIFICATION.
2. ALL SCIENCE LAB AND PREP ROOM CASEWORK TO BE WOOD WITH EPOXY RESIN COUNTERTOPS WITH 4" BACKSPLASH WHICH ARE RESISTANT TO CHEMICALS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. ALL PREP ROOM TALL STORAGE CABINETS TO BE VENTED & LOCKABLE & LABELED AS SUCH.
4. GENERAL CONTRACTOR TO PROVIDE ALL SCIENCE CLASSROOMS WITH THE SAFETY EQUIPMENT BELOW AND TO BE STORED IN THE SCIENCE ROOM AND/OR PREP ROOM:
   - -FIRE BLANKET (ONE PER CLASSROOM)
   - -CHEMICAL & FIRE-RESISTANT APRONS/LAB COATS (ONE PER STUDENT)
   - -FIRE EXTINGUISHER-ABC (ONE PER ROOM)
   - -SPILL CONTROL CENTER
   - -SAFETY SHIELDS (ONE PER STUDENT)
   - -GOGGLES AND GOGGLE SANITIZER (ONE PER STUDENT)
   - -HEAT & ACID RESISTANT GLOVES (ONE PER STUDENT)
   - -SAFETY/CHMICAL INVENTORY SOFTWARE
   - -BROKEN GLASS DISPOSAL CONTAINER
   - -COAT & BACKPACK HOOKS (TO BE LOCATED ON EACH STUDENT DESK & PROVIDED BY FURNITURE VENDOR)

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ENERGY STAR PARTNER

No.	Date	Description
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ISSUE DATE: 11/08/24
PROJECT #: 02208.000
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INTERIOR ELEVATIONS - MILLWORK

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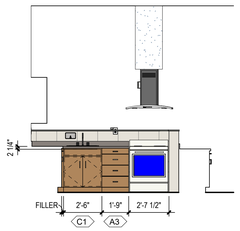
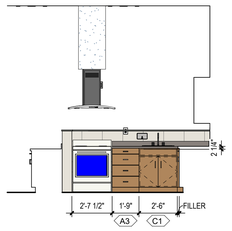


11 A-412 **104 FAMILY SCIENCE MILLWORK ELEV LEFT**
SCALE: 1/4" = 1'-0"



10 A-412 **104 FAMILY SCIENCE MILLWORK ELEV RIGHT**
SCALE: 1/4" = 1'-0"

CASEWORK GENERAL NOTES:

1. ALL FINISHES IN FAMILY SCIENCE CLASSROOMS TO BE HEALTH GRADE FINISHES. REFER TO FINISH PLAN FOR SPECIFICATION.
2. ALL SCIENCE LAB AND PREP ROOM CASEWORK TO BE WOOD WITH EPOXY RESIN COUNTERTOPS WITH 4" BACKSPLASH WHICH ARE RESISTANT TO CHEMICALS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. ALL PREP ROOM TALL STORAGE CABINETS TO BE VENTED & LOCKABLE & LABELED AS SUCH.
4. GENERAL CONTRACTOR TO PROVIDE ALL SCIENCE CLASSROOMS WITH THE SAFETY EQUIPMENT BELOW AND TO BE STORED IN THE SCIENCE ROOM AND/OR PREP ROOM:
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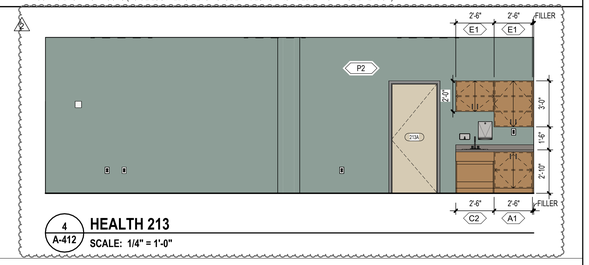
   - -CHEMICAL & FIRE-RESISTANT APRONS/LAB COATS (ONE PER STUDENT)
   - -FIRE EXTINGUISHER-ABC (ONE PER ROOM)
   - -SPILL CONTROL CENTER
   - -SAFETY SHIELDS (ONE PER STUDENT)
   - -GOGGLES AND GOGGLE SANITIZER (ONE PER STUDENT)
   - -HEAT & ACID RESISTANT GLOVES (ONE PER STUDENT)
   - -SAFETY/CHMICAL INVENTORY SOFTWARE
   - -BROKEN GLASS DISPOSAL CONTAINER
   - -COAT & BACKPACK HOOKS (TO BE LOCATED ON EACH STUDENT DESK & PROVIDED BY FURNITURE VENDOR)



4 A-412 **HEALTH 213**
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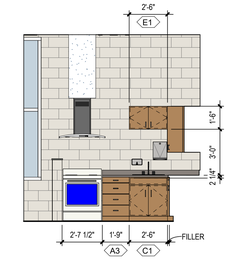
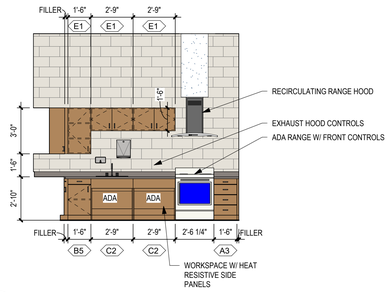


9 A-412 **104 FAMILY SCIENCE MILLWORK ELEV EXT WALL**
SCALE: 1/4" = 1'-0"



8 A-412 **104 FAMILY SCIENCE ADA MILLWORK ELEV**
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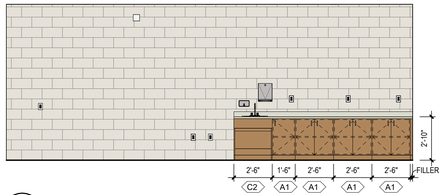

3 A-412 **STEM 600A MILLWORK ELEV**
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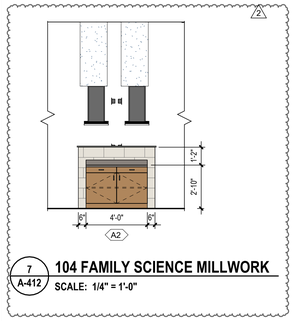
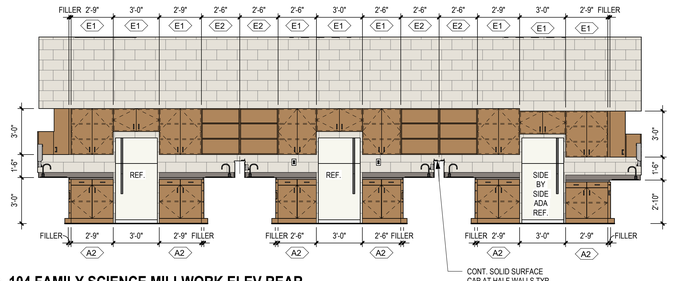


7 A-412 **104 FAMILY SCIENCE MILLWORK**
SCALE: 1/4" = 1'-0"



6 A-412 **104 FAMILY SCIENCE MILLWORK ELEV REAR**
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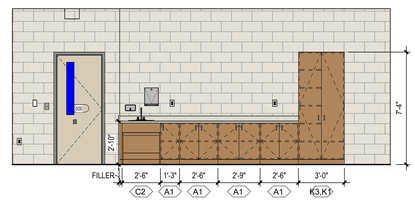

2 A-412 **STEM CLASSROOM 500 WING MILLWORK ELEV**
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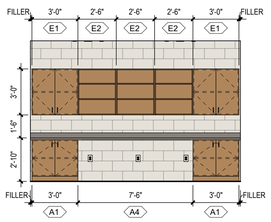
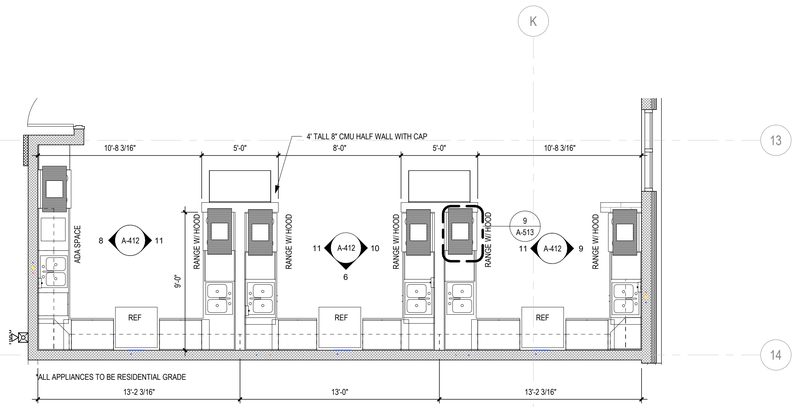
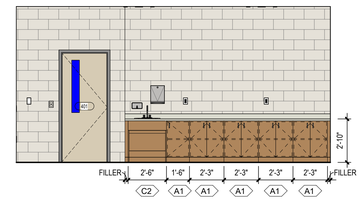


12 A-412 **CONCESSION MILLWORK ELEVATION**
SCALE: 1/4" = 1'-0"



5 A-412 **FAMILY SCIENCES ENLARGED KITCHEN PLAN**
SCALE: 1/4" = 1'-0"



1 A-412 **STEM CLASSROOM 401 MILLWORK ELEV**
SCALE: 1/4" = 1'-0"

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INTERIOR ELEVATIONS - MILLWORK

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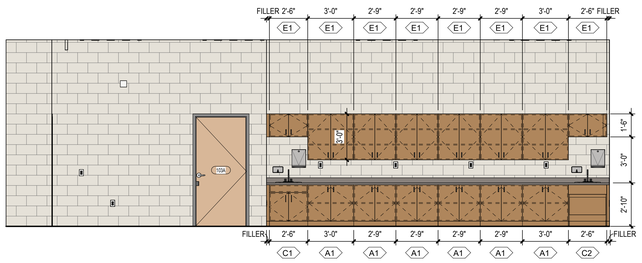

8 A-413 **ART 103 MILLWORK ELEVATION**
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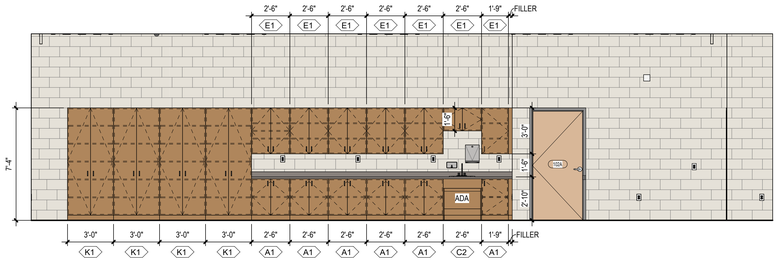

4 A-413 **DRAMA 102 MILLWORK ELEVATION**
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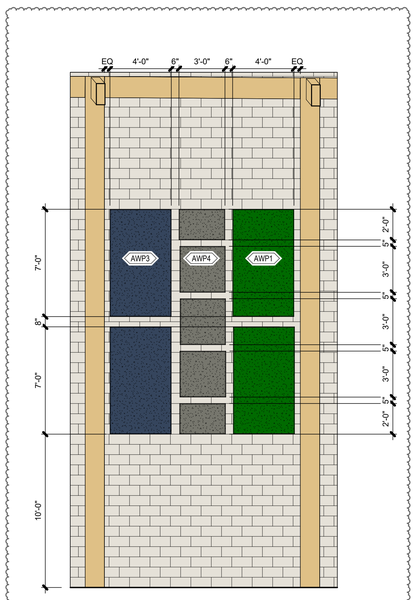

10 A-413 **TYP. AWP IN CORRIDOR DETAILS**
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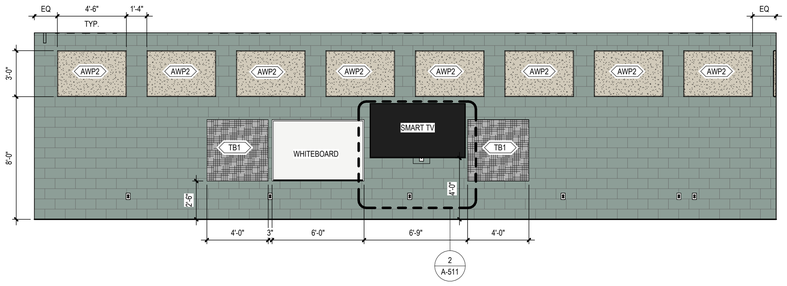
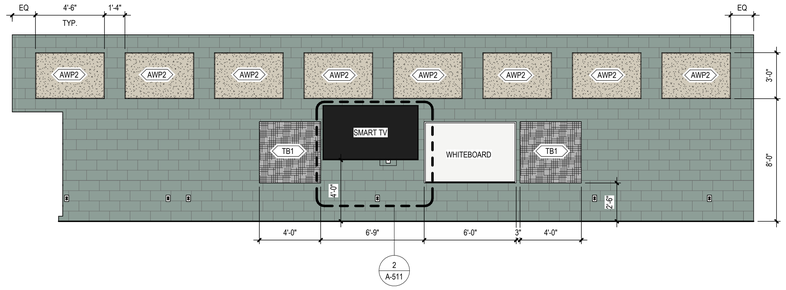
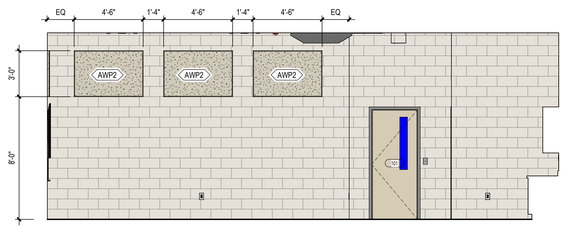


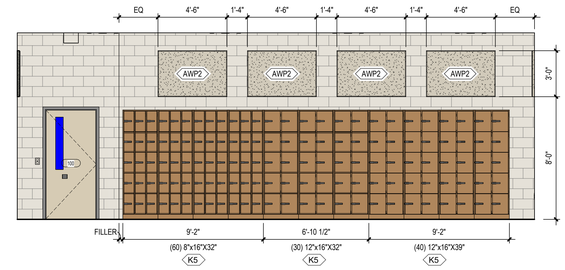
7 A-413 **VOCAL MUSIC 101-TEACHING WALL**
SCALE: 1/4" = 1'-0"



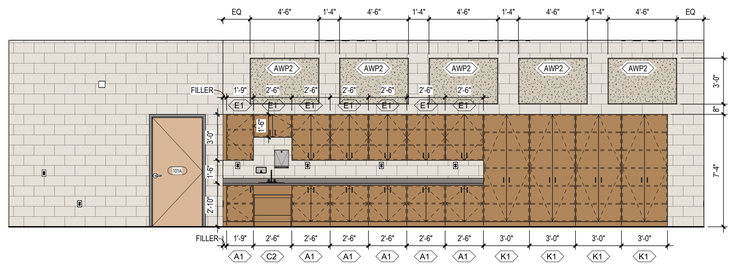
3 A-413 **MUSIC 101-TEACHING WALL**
SCALE: 1/4" = 1'-0"



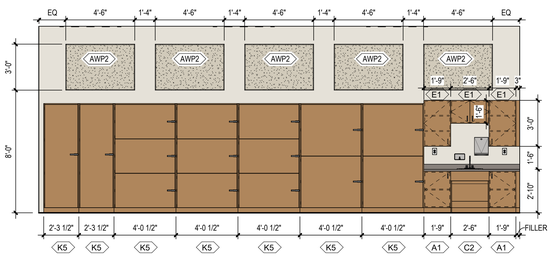
6 A-413 **VOCAL MUSIC 101-ENTRY**
SCALE: 1/4" = 1'-0"



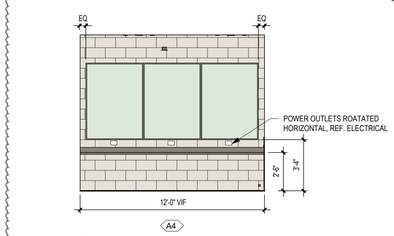
2 A-413 **MUSIC 100-MILLWORK 2**
SCALE: 1/4" = 1'-0"



5 A-413 **VOCAL MUSIC 101-MILLWORK**
SCALE: 1/4" = 1'-0"



1 A-413 **MUSIC 100-MILLWORK**
SCALE: 1/4" = 1'-0"



9 A-413 **DRESSING ROOM COUNTER**
SCALE: 1/4" = 1'-0"

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INTERIOR ELEVATIONS

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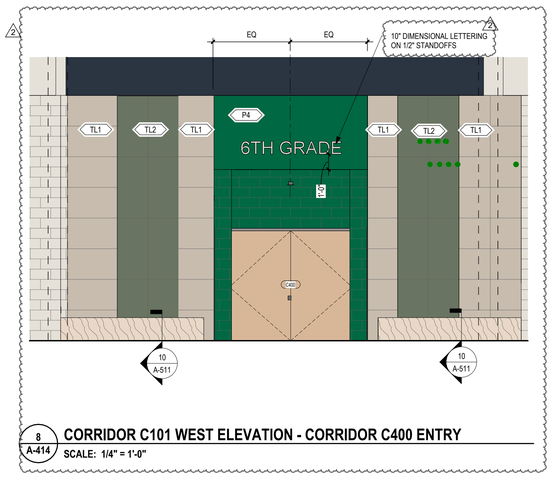
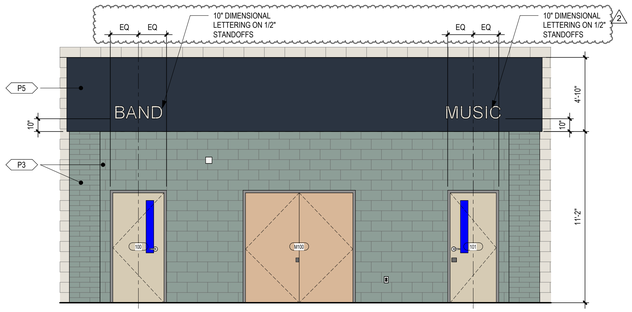
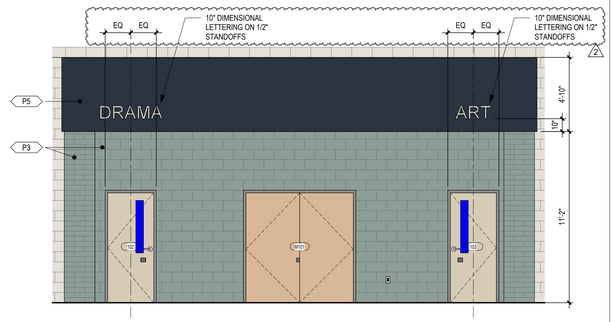


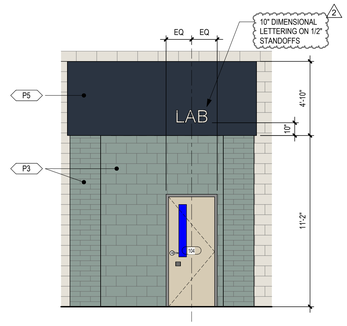
8 A-414 **CORRIDOR C101 WEST ELEVATION - CORRIDOR C400 ENTRY**
SCALE: 1/4" = 1'-0"



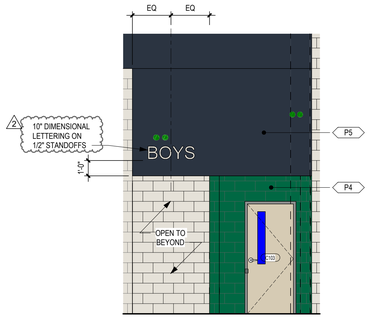
7 A-414 **CORRIDOR C101 EAST ELEVATION - MUSIC ENTRY**
SCALE: 1/4" = 1'-0"



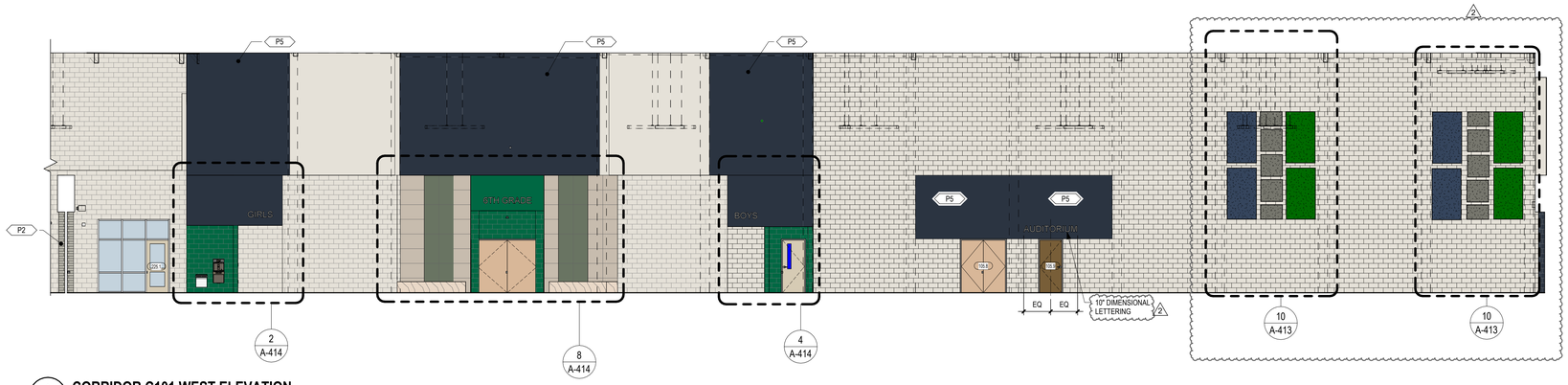
6 A-414 **CORRIDOR C101 EAST ELEVATION - DRAMA & ART ENTRY**
SCALE: 1/4" = 1'-0"



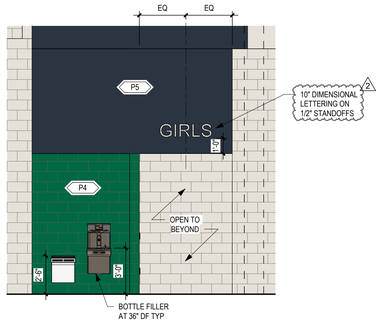
5 A-414 **CORRIDOR C101 EAST ELEVATION - FCS ENTRY**
SCALE: 1/4" = 1'-0"



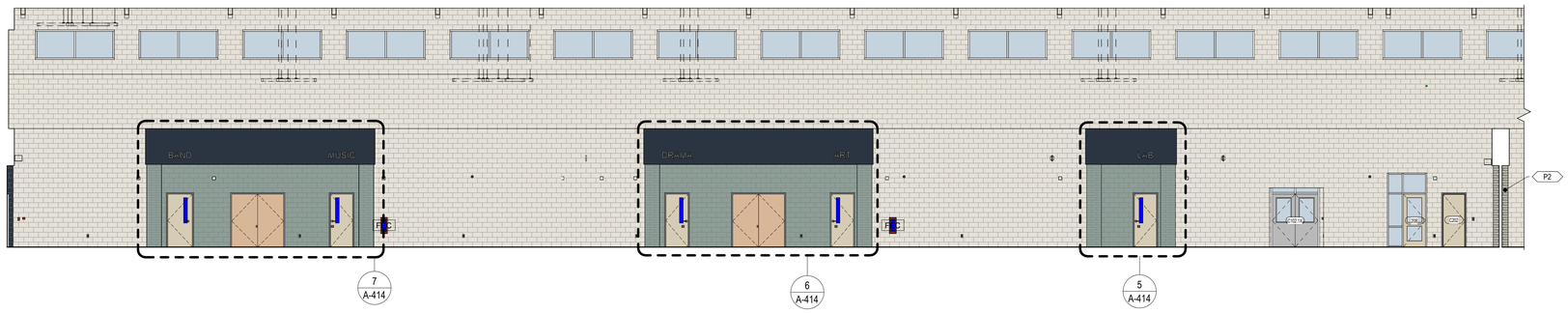
4 A-414 **CORRIDOR C101 WEST ELEVATION - BOYS RR ENTRY**
SCALE: 1/4" = 1'-0"



3 A-414 **CORRIDOR C101 WEST ELEVATION**
SCALE: 1/8" = 1'-0"



2 A-414 **CORRIDOR C101 WEST ELEVATION - GIRLS RR ENTRY**
SCALE: 1/4" = 1'-0"



1 A-414 **CORRIDOR C101 EAST ELEVATION**
SCALE: 1/8" = 1'-0"

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INTERIOR ELEVATIONS - 100 CORRIDORS

A-414

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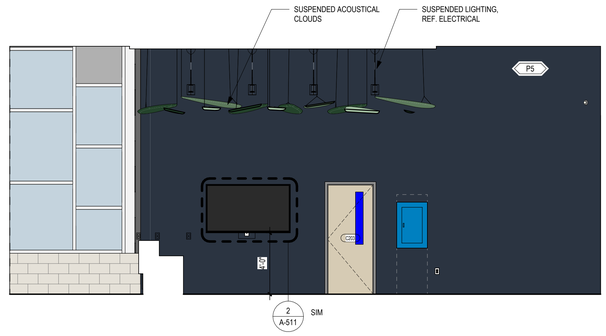
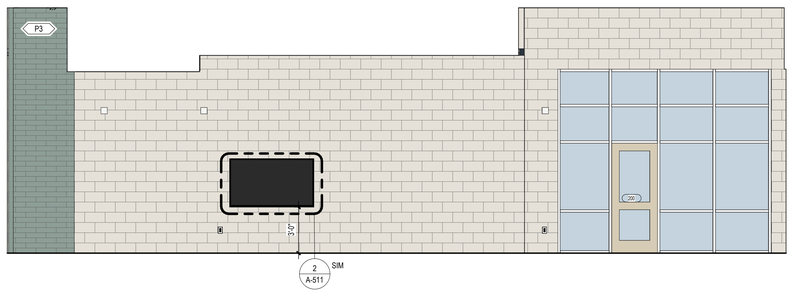
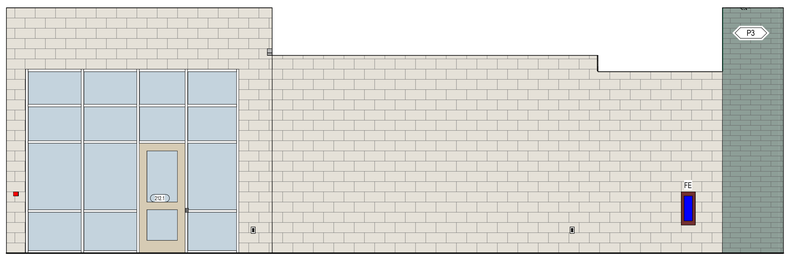


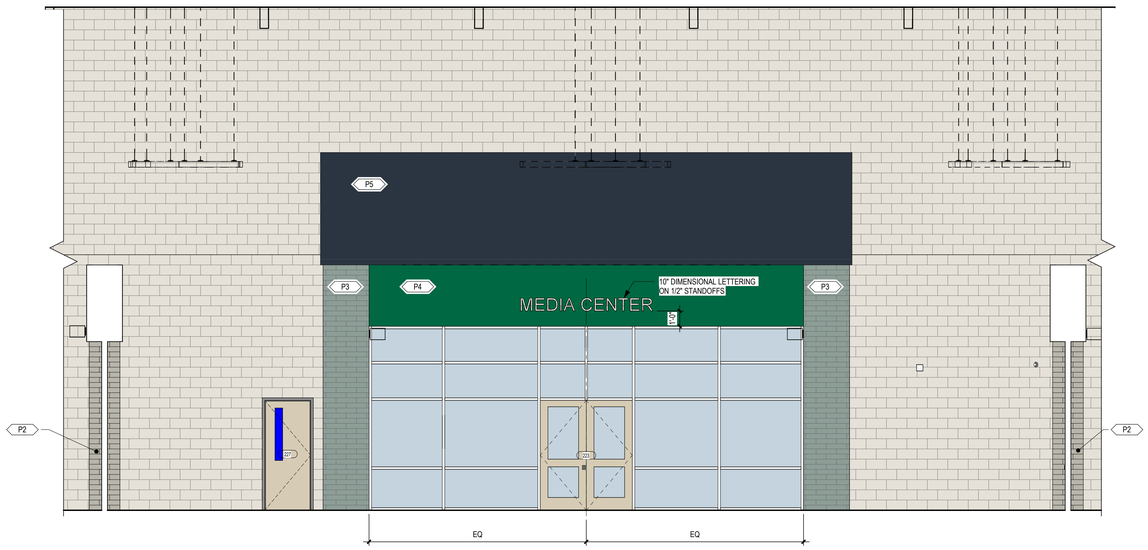
5 A-415 **RECEPTION 213 ELEVATION**
SCALE: 1/4" = 1'-0"



4 A-415 **CORRIDOR C201 NORTH ELEVATION**
SCALE: 1/4" = 1'-0"



3 A-415 **CORRIDOR C201 SOUTH ELEVATION**
SCALE: 1/4" = 1'-0"



2 A-415 **CORRIDOR C201 WEST ELEVATION**
SCALE: 1/4" = 1'-0"

1 A-415 **CORRIDOR C201 EAST ELEVATION**
SCALE: 1/4" = 1'-0"

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INTERIOR ELEVATIONS - 200 CORRIDORS

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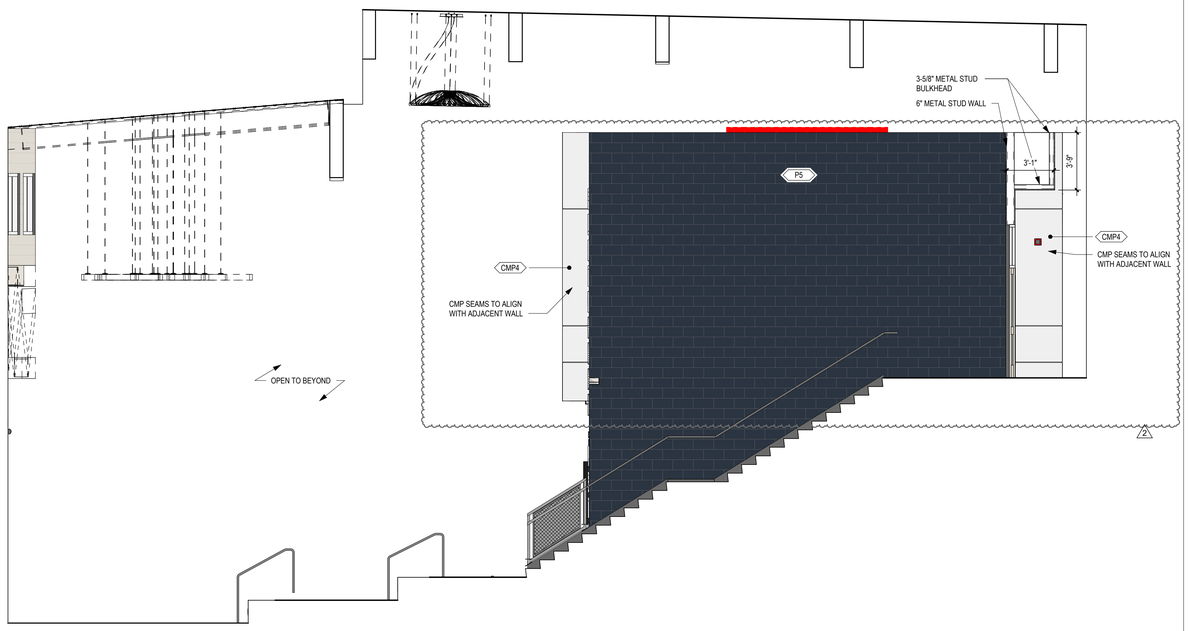
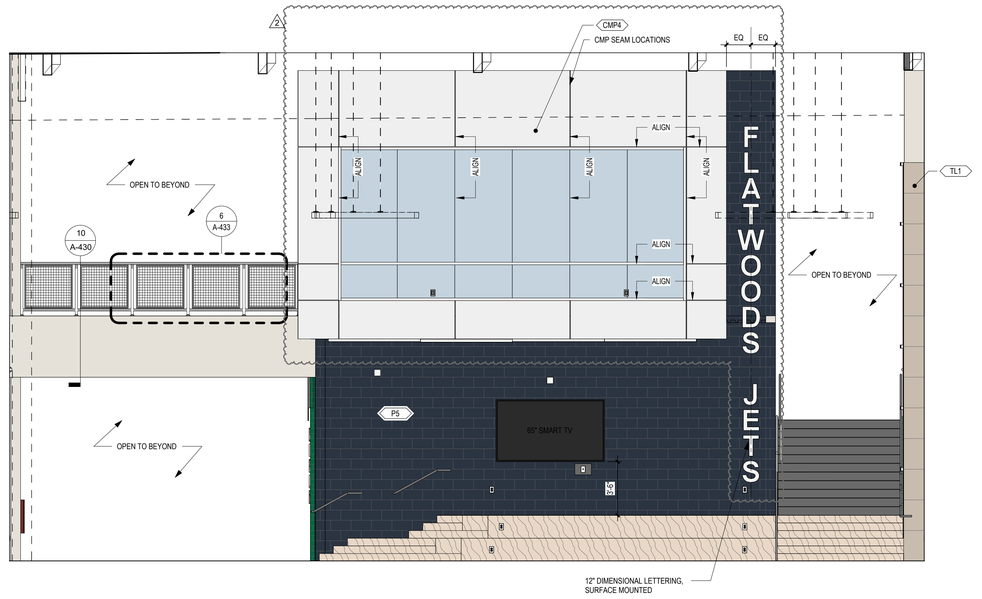
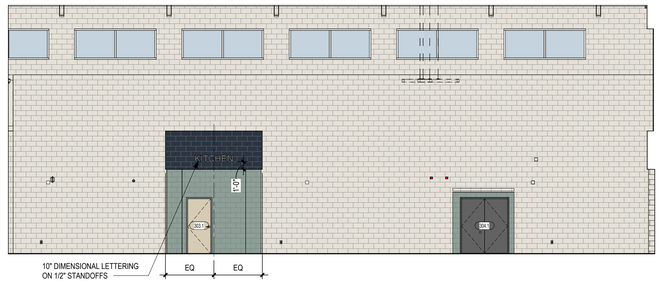


5 A-416 **MONUMENTAL STAIR SOUTH ELEVATION**
SCALE: 1/4" = 1'-0"

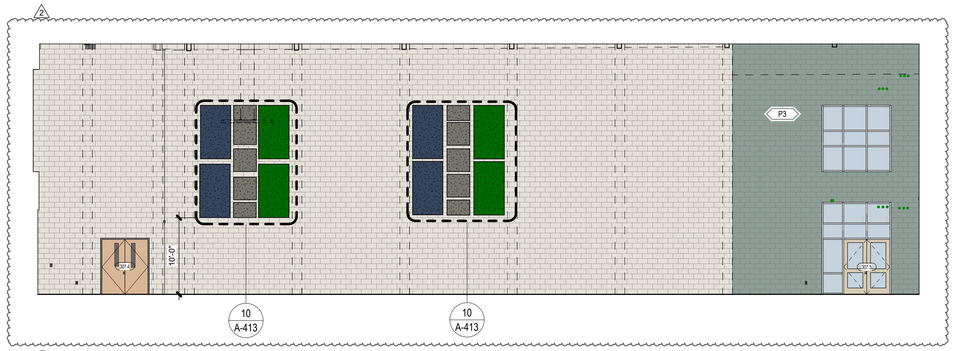


3 A-416 **MONUMENTAL STAIR WEST ELEVATION**
SCALE: 1/4" = 1'-0"

4 A-416 **MONUMENTAL STAIR NORTH ELEVATION**
SCALE: 1/4" = 1'-0"



2 A-416 **CORRIDOR C300 EAST ELEVATION**
SCALE: 1/8" = 1'-0"



1 A-416 **CORRIDOR C300 WEST ELEVATION**
SCALE: 1/8" = 1'-0"

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INTERIOR ELEVATIONS - 300 CORRIDORS

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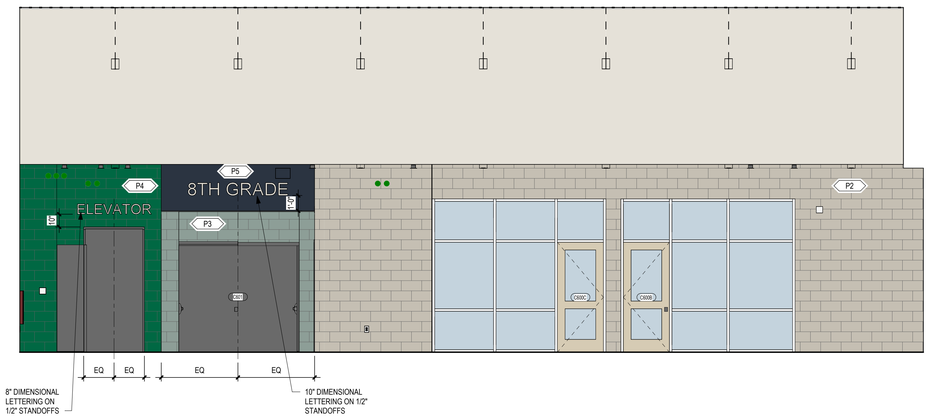
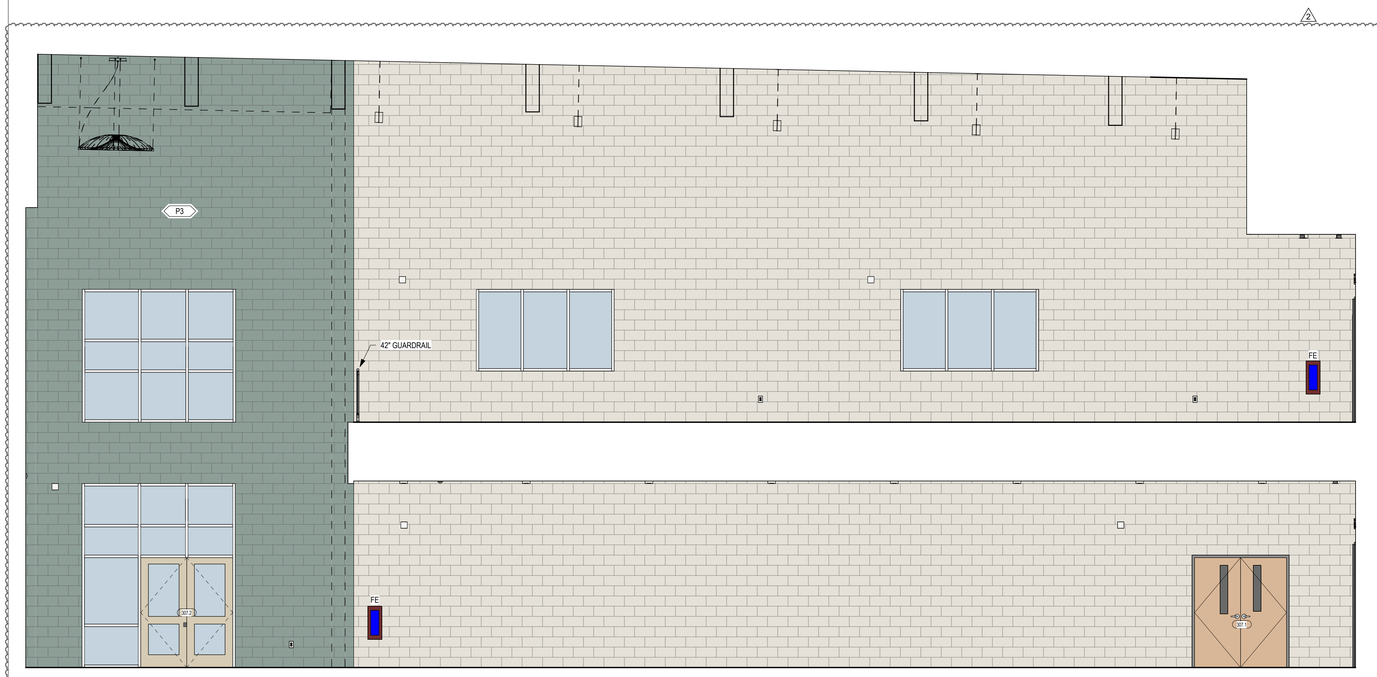


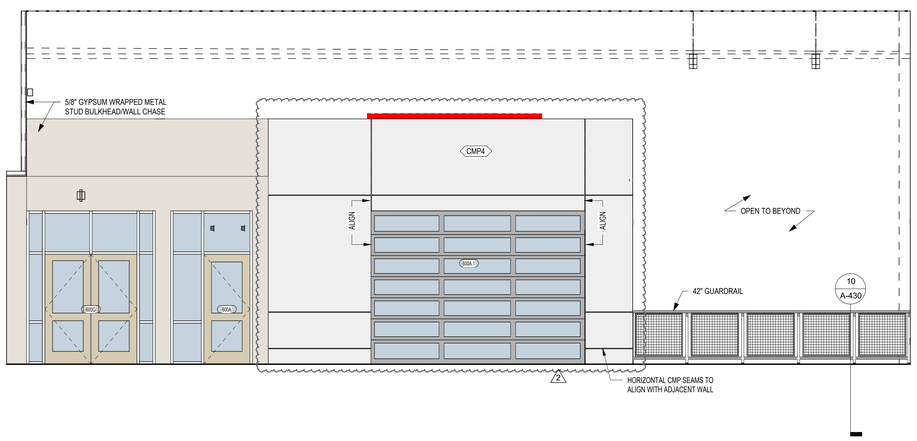
4 A-417 **COLLABORATION 600 WEST ELEVATION**

SCALE: 1/4" = 1'-0"



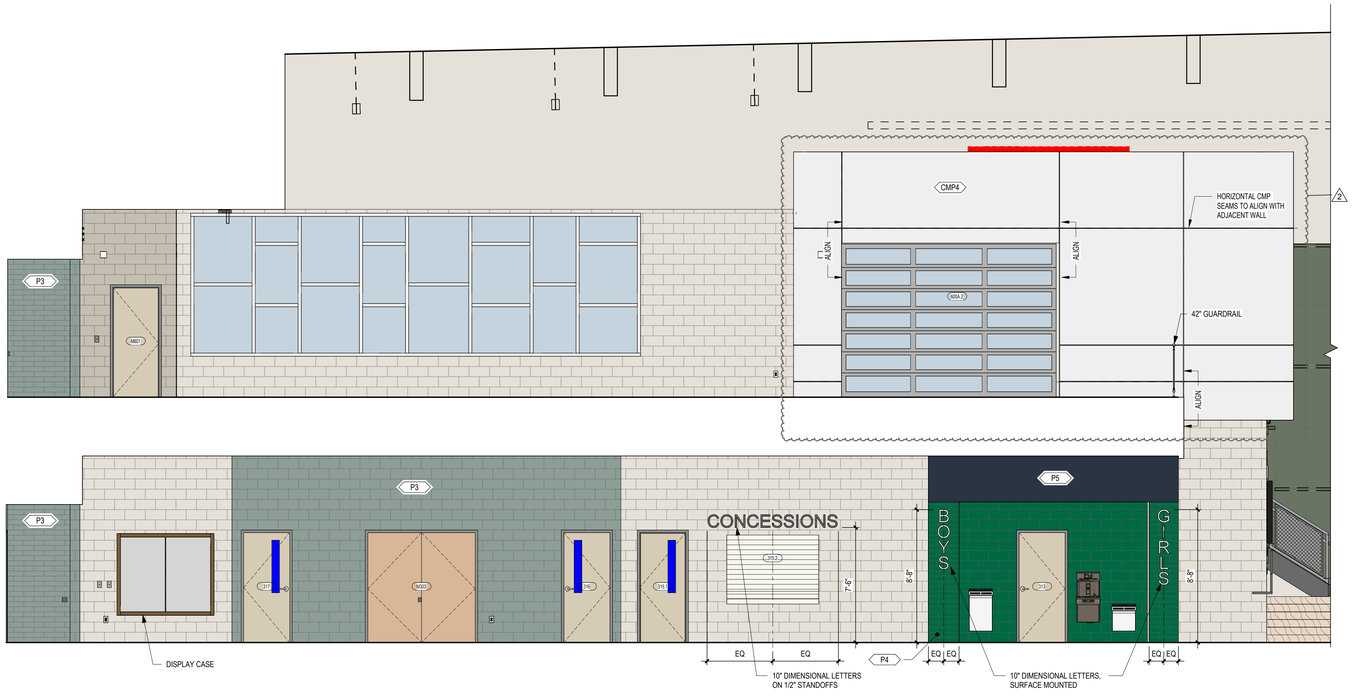
2 A-417 **GYM COLLABORATION SOUTH ELEVATION**

SCALE: 1/4" = 1'-0"



3 A-417 **COLLABORATION 600 EAST ELEVATION**

SCALE: 1/4" = 1'-0"



1 A-417 **GYM COLLABORATION NORTH ELEVATION**

SCALE: 1/4" = 1'-0"

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INTERIOR ELEVATIONS - COLLABORATION

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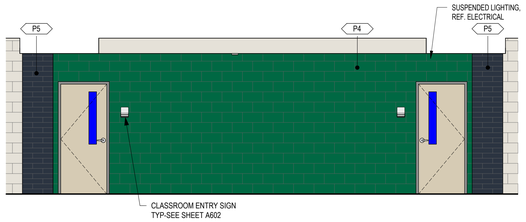
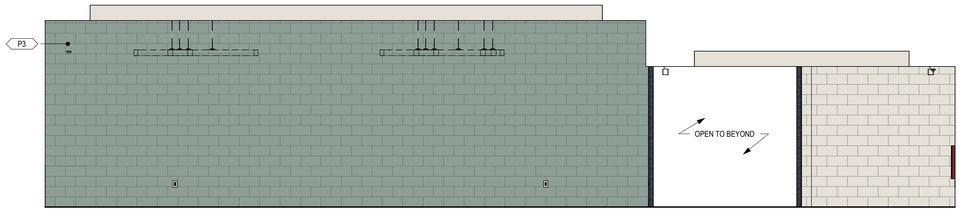
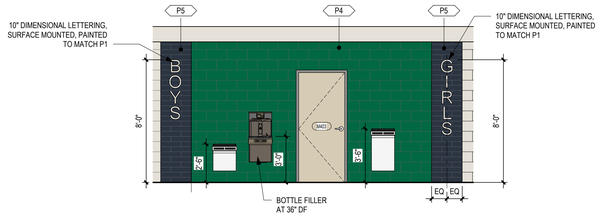


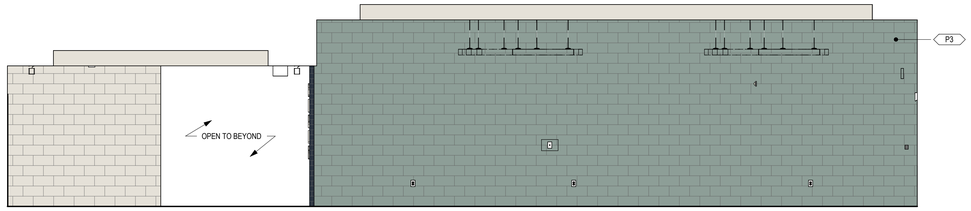
6 A-418 **CORRIDOR C401 - TYP. CLASSROOM ENTRY**
SCALE: 1/4" = 1'-0"



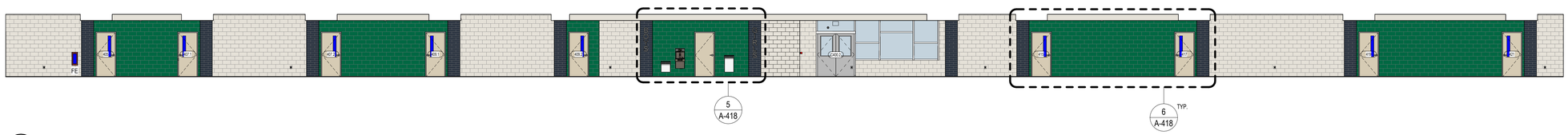
4 A-418 **COLLABORATION C402 WEST ELEVATION**
SCALE: 1/4" = 1'-0"



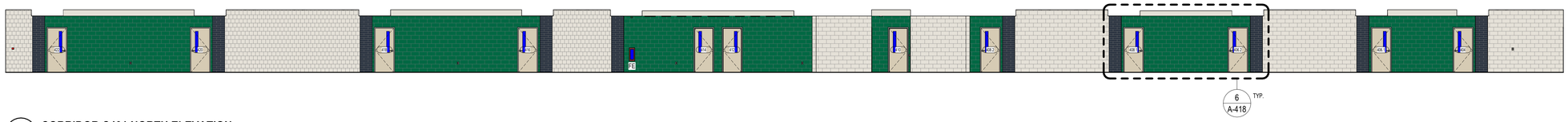
5 A-418 **CORRIDOR C401 SOUTH ELEVATION - RESTROOM ENTRY**
SCALE: 1/4" = 1'-0"



3 A-418 **COLLABORATION C402 EAST ELEVATION**
SCALE: 1/4" = 1'-0"



2 A-418 **CORRIDOR C401 SOUTH ELEVATION**
SCALE: 1/8" = 1'-0"



1 A-418 **CORRIDOR C401 NORTH ELEVATION**
SCALE: 1/8" = 1'-0"

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INTERIOR ELEVATIONS - 400 CORRIDORS

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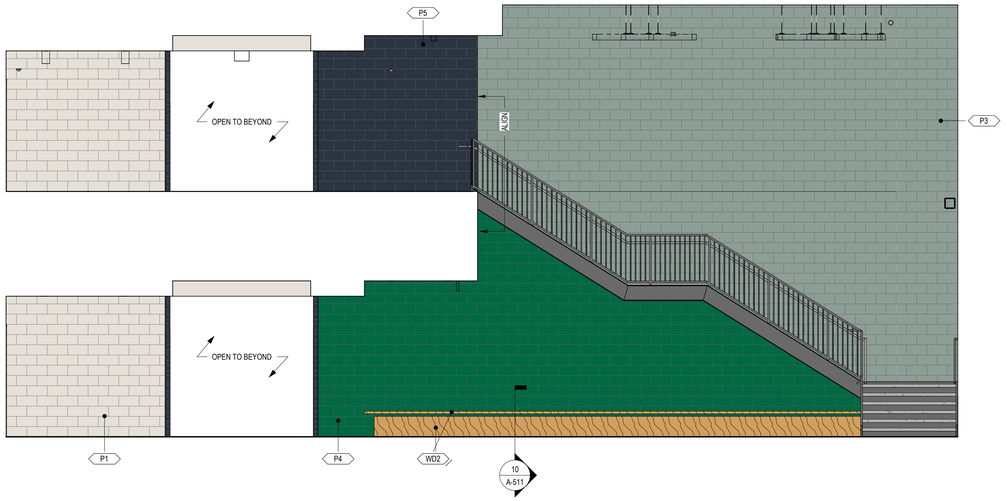
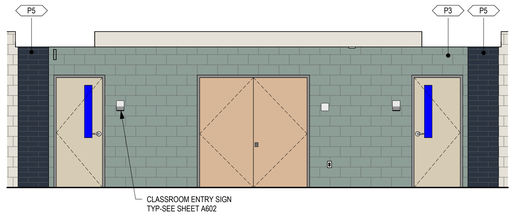
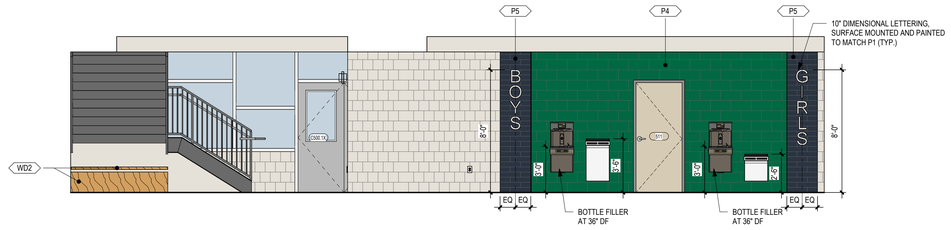


6 A-419 **COLLABORATION C501 WEST ELEVATION**
SCALE: 1/4" = 1'-0"

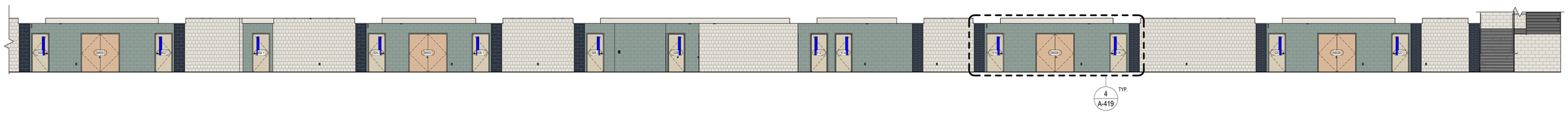
5 A-419 **COLLABORATION C501 EAST ELEVATION**
SCALE: 1/4" = 1'-0"



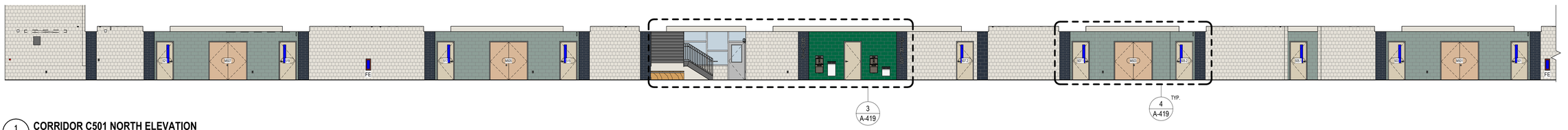
4 A-419 **CORRIDOR C501 - TYP. CLASSROOM ENTRY**
SCALE: 1/4" = 1'-0"



3 A-419 **CORRIDOR C501 NORTH ELEVATION - RESTROOM ENTRY**
SCALE: 1/4" = 1'-0"



2 A-419 **CORRIDOR C501 SOUTH ELEVATION**
SCALE: 1/8" = 1'-0"



1 A-419 **CORRIDOR C501 NORTH ELEVATION**
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INTERIOR ELEVATIONS - 500 CORRIDORS

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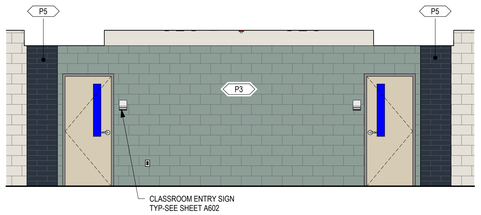

4 A-420 **CORRIDOR C601 - TYP. CLASSROOM ENTRY**
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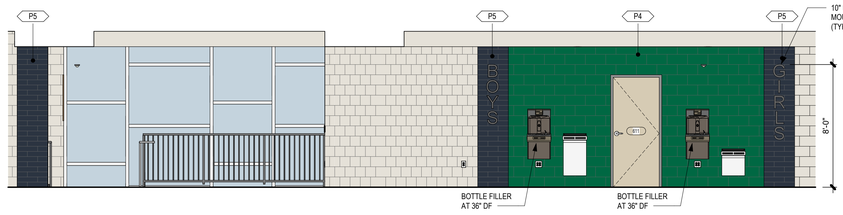
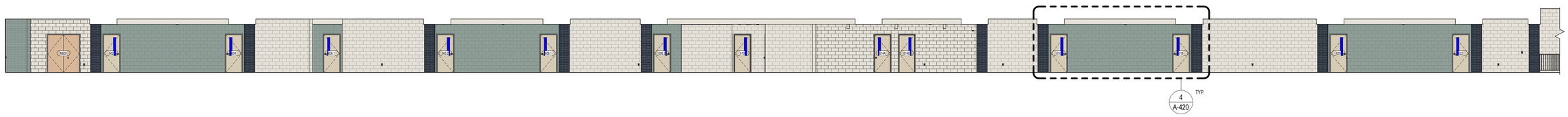
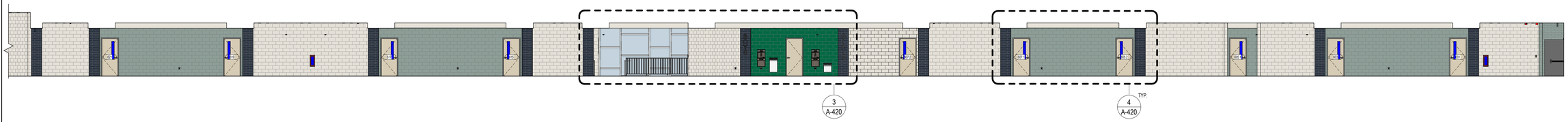


3 A-420 **CORRIDOR C601 NORTH ELEVATION - RESTROOM ENTRY**
SCALE: 1/4" = 1'-0"



2 A-420 **CORRIDOR C601 SOUTH ELEVATION**
SCALE: 1/8" = 1'-0"



1 A-420 **CORRIDOR C601 NORTH ELEVATION**
SCALE: 1/8" = 1'-0"

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FLATWOODS MIDDLE SCHOOL
3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description
2	12-13-24	CD REVISIONS

ISSUE DATE: 11/08/24
PROJECT #: 02208.000
DRAWN BY: Author
CHECKED BY: Checker

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INTERIOR ELEVATIONS - 600 CORRIDORS

A-420

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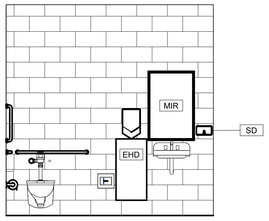
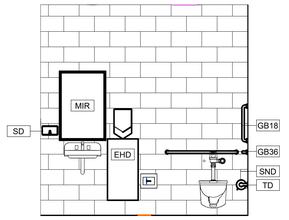


8 A-421 **110 BATHROOM ELEVATION**
SCALE: 3/8" = 1'-0"

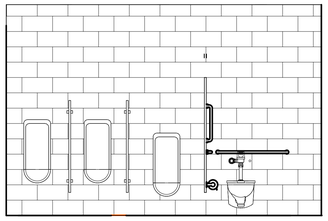


5 A-421 **111 BATHROOM ELEVATION**
SCALE: 3/8" = 1'-0"

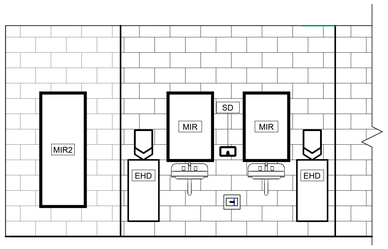
TOILET ACCESSORY LEGEND

NAME	DESCRIPTION
AHS	FULLY ACCESSIBLE HAND SHOWER HEAD
CH	COAT HOOK (WALL OR DOOR MOUNTED)
EHD	ELECTRIC HAND DRYER
EWC	ELECTRIC WATER COOLER + BF (BOTTLE FILLER)
FD	FLOOR DRAIN - SEE PLUMBING
GB	1 1/2" DIA SS GRAB BAR (GB# NOTED IN PLAN INDICATES LENGTH IN INCHES)
ADA	INDICATES TO MOUNT FIXTURE AT HANDICAPPED ACCESSIBLE HEIGHT
MIR	SS FRAMED WALL MIRROR ATTACHED WITH CONCEALED FASTENERS
SD	WALL MOUNTED GRAVITY FED SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL (WOMENS TOILET ROOMS ONLY)
TD	TOILET TISSUE DISPENSER

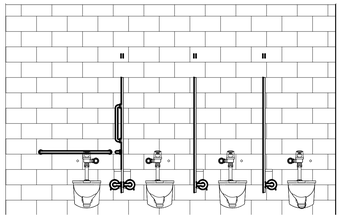
GENERAL NOTES:
1) SEE A-422 FOR TYP FIXTURE MOUNTING HEIGHTS.
2) ALL ADA STALL DOORS TO BE 3', AMB STALL DOORS 2'-10", STANDARD STALLS 2'-4".



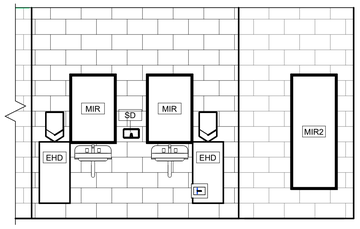
7 A-421 **109 BOYS WATER CLOSET ELEVATION**
SCALE: 3/8" = 1'-0"



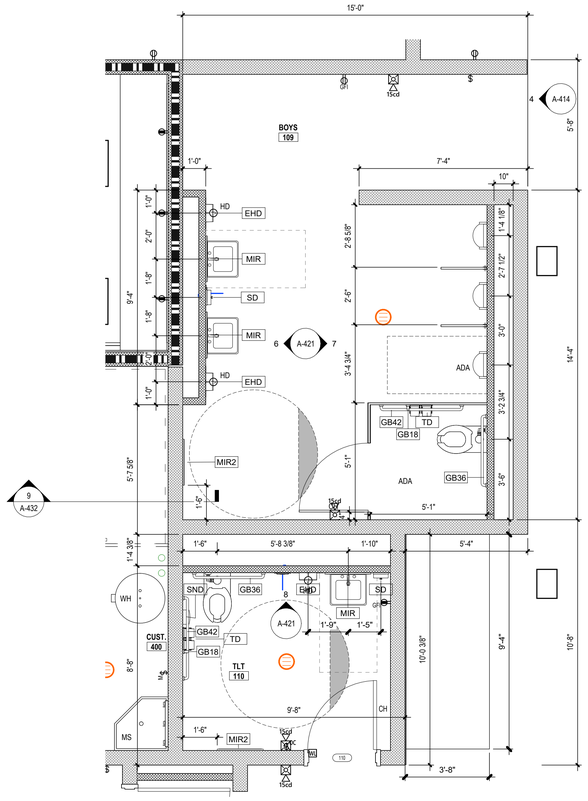
6 A-421 **109 BOYS LAVATORY ELEVATION**
SCALE: 3/8" = 1'-0"



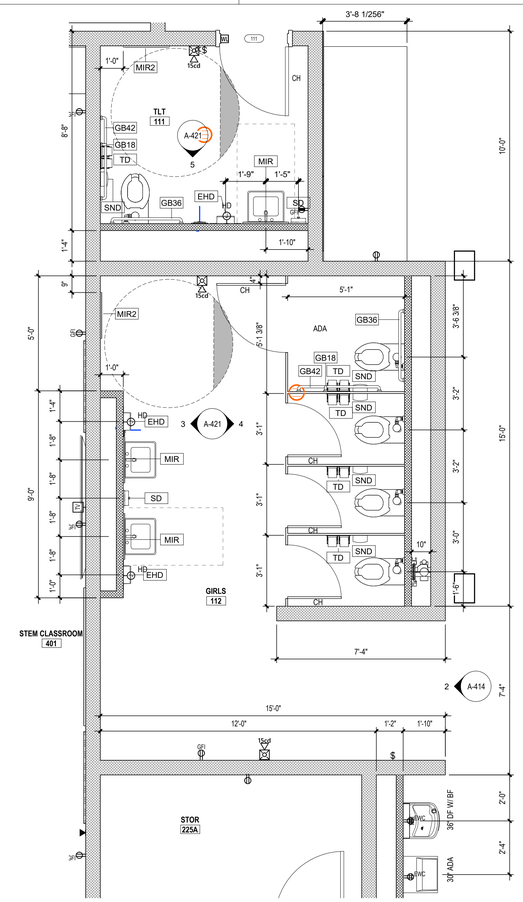
4 A-421 **112 GIRLS WATER CLOSET ELEVATION**
SCALE: 3/8" = 1'-0"



3 A-421 **112 GIRLS LAVATORY ELEVATION**
SCALE: 3/8" = 1'-0"



2 A-421 **AREA 100 GROUP TOILET - BOYS**
SCALE: 3/8" = 1'-0"



1 A-421 **AREA 100 GROUP TOILET - GIRLS**
SCALE: 3/8" = 1'-0"

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ENLARGED BATHROOM PLANS - 100

A-421

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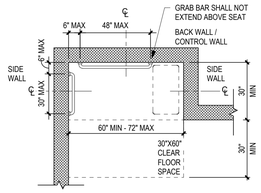
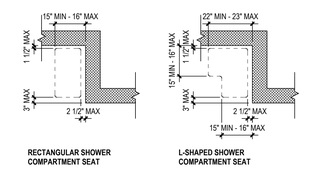


STANDARD ROLL-IN SHOWER COMPARTMENT

*NOTE: STANDARD ROLL-IN SHOWER REQUIREMENTS TO MEET A117.1-2009 SECTION 608



RECTANGULAR SHOWER COMPARTMENT SEAT

L-SHAPED SHOWER COMPARTMENT SEAT

STANDARD SHOWER COMPARMENT SEAT

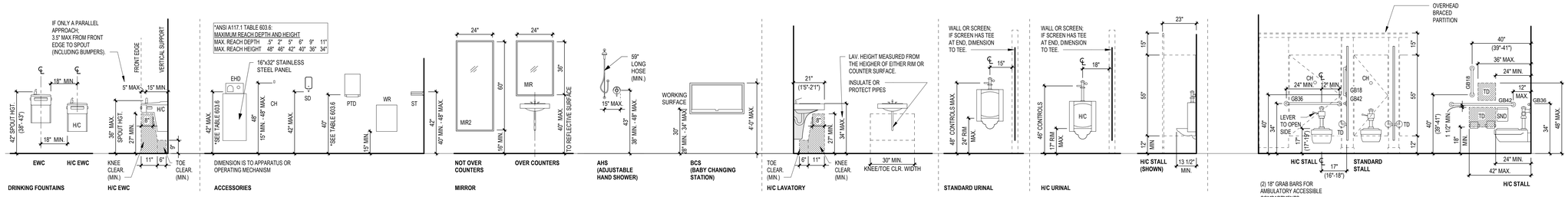
14 A-422 ADA SHOWER DETAILS

SCALE: 3/8" = 1'-0"

TOILET ACCESSORY LEGEND

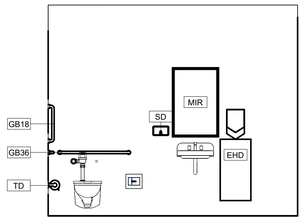
NAME	DESCRIPTION
AHS	FULLY ACCESSIBLE HAND SHOWER HEAD
CH	COAT HOOK (WALL OR DOOR MOUNTED)
EHD	ELECTRIC HAND DRYER
EWC	ELECTRIC WATER COOLER + BF (BOTTLE FILLER)
FD	FLOOR DRAIN - SEE PLUMBING
GB	1 1/2" DIA SS GRAB BAR (GB# NOTED IN PLAN INDICATES LENGTH IN INCHES)
ADA	INDICATES TO MOUNT FIXTURE AT HANDICAPPED ACCESSIBLE HEIGHT
MIR	SS FRAMED WALL MIRROR ATTACHED WITH CONCEALED FASTENERS
SD	WALL MOUNTED GRAVITY FED SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL (WOMENS TOILET ROOMS ONLY)
TD	TOILET TISSUE DISPENSER

GENERAL NOTES:
1) SEE A-422 FOR TYP FIXTURE MOUNTING HEIGHTS.
2) ALL ADA STALL DOORS TO BE 3', AMB STALL DOORS 2'-10", STANDARD STALLS 2'-4".



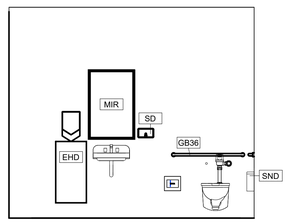
13 A-422 TYPICAL TOILET FIXTURE MOUNTING HEIGHTS - ADULT

SCALE: 3/8" = 1'-0"



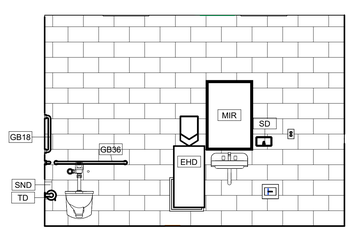
11 A-422 211 BATHROOM ELEVATION

SCALE: 3/8" = 1'-0"



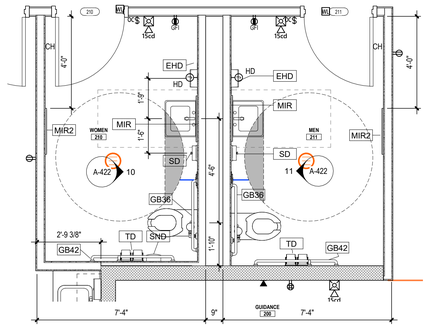
10 A-422 210 BATHROOM ELEVATION

SCALE: 3/8" = 1'-0"



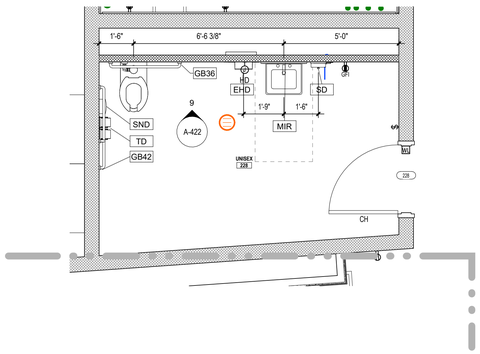
9 A-422 228 BATHROOM ELEVATION

SCALE: 3/8" = 1'-0"



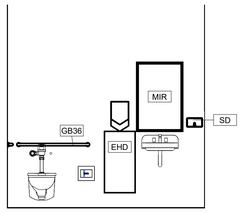
8 A-422 ADMIN. STAFF BATHROOM 210 & 211

SCALE: 3/8" = 1'-0"



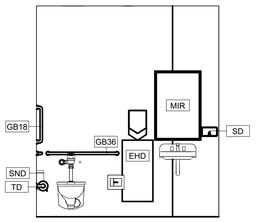
7 A-422 STAFF BATHROOM 228

SCALE: 3/8" = 1'-0"



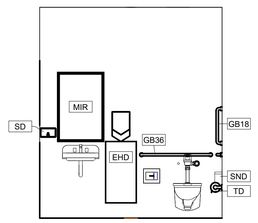
6 A-422 216A BATHROOM ELEVATION

SCALE: 3/8" = 1'-0"



5 A-422 220 BATHROOM ELEVATION

SCALE: 3/8" = 1'-0"



4 A-422 219 BATHROOM ELEVATION

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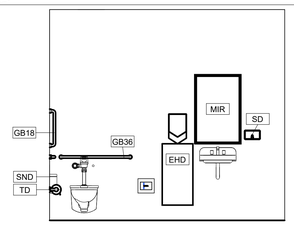
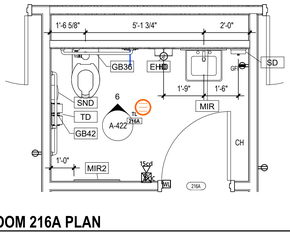


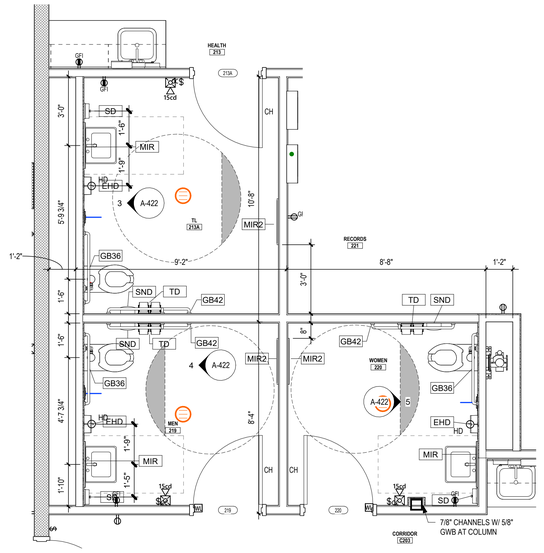
3 A-422 213A BATHROOM ELEVATION

SCALE: 3/8" = 1'-0"



2 A-422 BATHROOM 216A PLAN

SCALE: 3/8" = 1'-0"



1 A-422 STAFF BATHROOMS 219, 220 AND HEALTH 213A PLANS

SCALE: 3/8" = 1'-0"

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ENLARGED BATHROOM PLANS - 200

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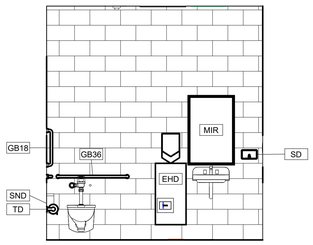
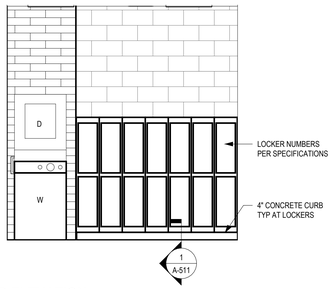


6 A-423 **306A BATHROOM ELEVATION**
SCALE: 3/8" = 1'-0"



5 A-423 **306 LOCKER ELEVATION**
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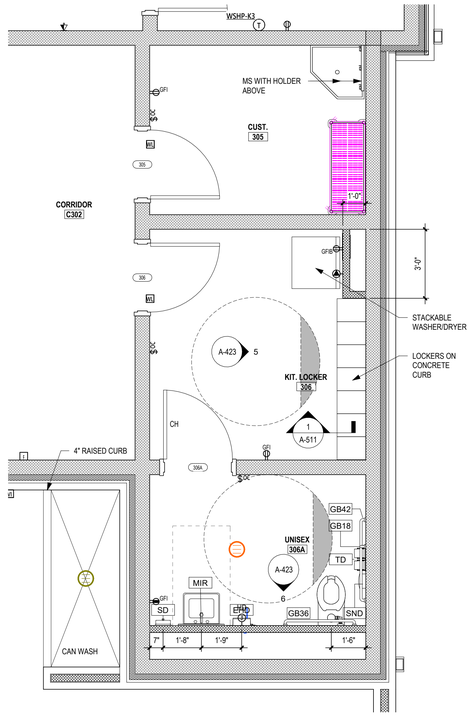

2 A-423 **KITCHEN TOILET AND UTILITY PLAN**
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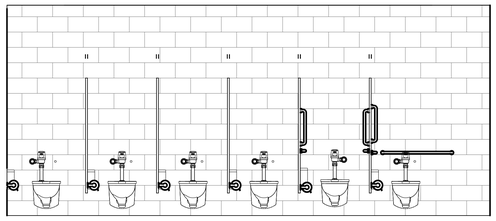

8 A-423 **GIRLS WATER CLOSET WALL-AREA 300**
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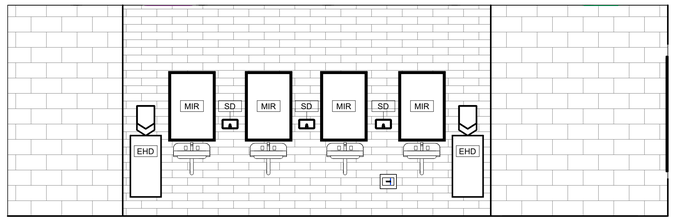

4 A-423 **GIRLS LAVATORY WALL-AREA 300**
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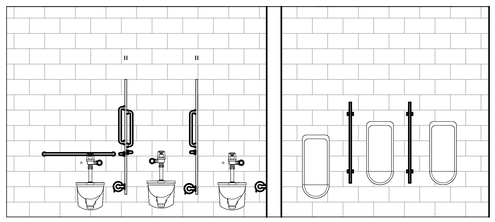

7 A-423 **BOYS WATER CLOSET WALL-AREA 300**
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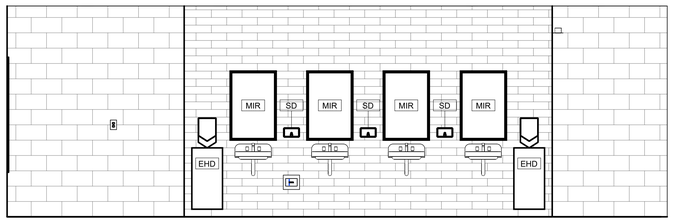
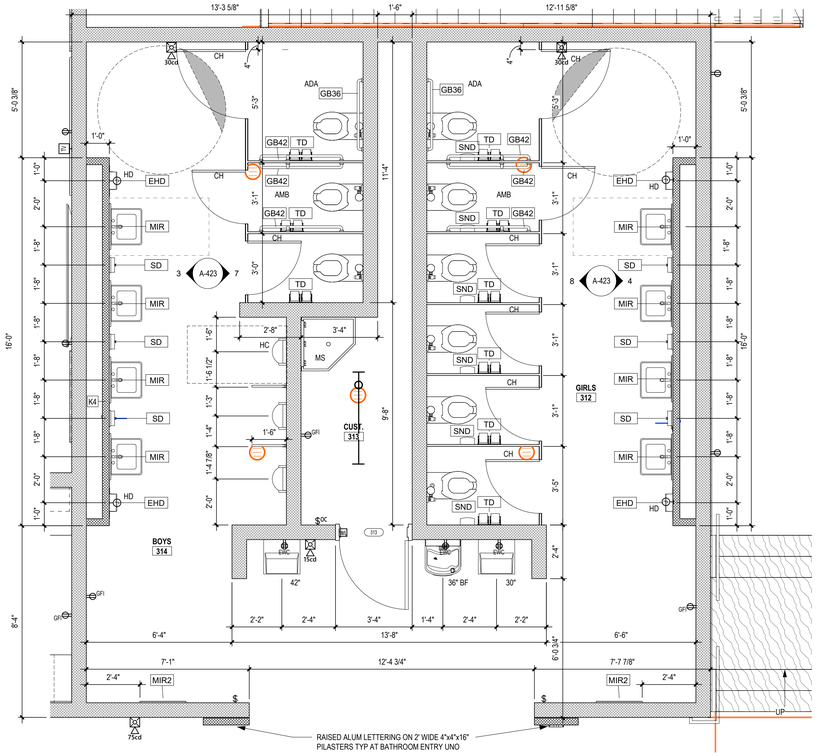


3 A-423 **BOYS LAVATORY WALL-AREA 300**
SCALE: 3/8" = 1'-0"



1 A-423 **AREA 300 - GROUP TOILET**
SCALE: 3/8" = 1'-0"

TOILET ACCESSORY LEGEND

NAME	DESCRIPTION
AHS	FULLY ACCESSIBLE HAND SHOWER HEAD
CH	COAT HOOK (WALL OR DOOR MOUNTED)
EHD	ELECTRIC HAND DRYER
EWC	ELECTRIC WATER COOLER + BF (BOTTLE FILLER)
FD	FLOOR DRAIN - SEE PLUMBING
GB	1 1/2" DIA SS GRAB BAR (GB# NOTED IN PLAN INDICATES LENGTH IN INCHES)
ADA	INDICATES TO MOUNT FIXTURE AT HANDICAPPED ACCESSIBLE HEIGHT
MIR	SS FRAMED WALL MIRROR ATTACHED WITH CONCEALED FASTENERS
SD	WALL MOUNTED GRAVITY FED SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL (WOMENS TOILET ROOMS ONLY)
TD	TOILET TISSUE DISPENSER

GENERAL NOTES:
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2) ALL ADA STALL DOORS TO BE 3', AMB STALL DOORS 2'-10", STANDARD STALLS 2'-4".

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ENLARGED BATHROOM PLANS - 300

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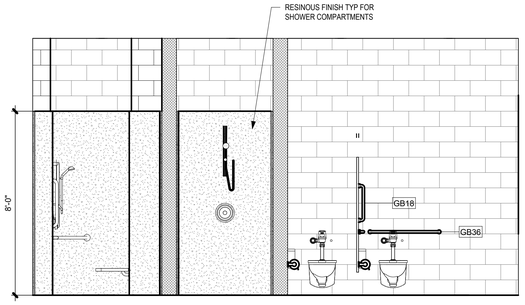
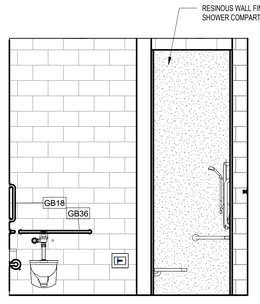
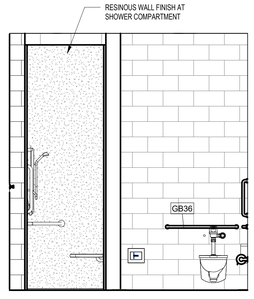


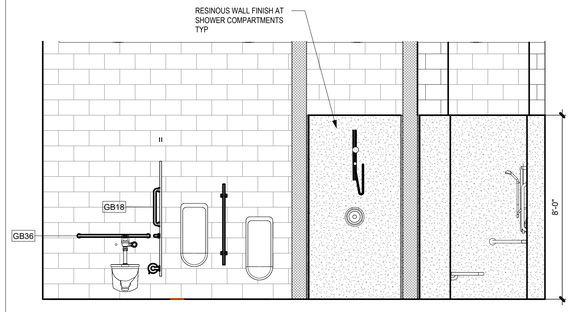
10 A-423.1 **WATER CLOSET ELEV- GIRLS SHOWER 308A**
SCALE: 3/8" = 1'-0"



8 A-423.1 **WATER CLOSET ELEV- STAFF 309A**
SCALE: 3/8" = 1'-0"



6 A-423.1 **WATER CLOSET ELEV- STAFF 310A**
SCALE: 3/8" = 1'-0"

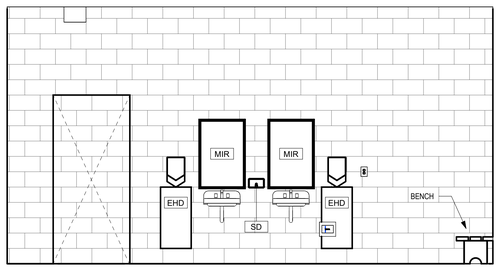


4 A-423.1 **WATER CLOSET ELEV- BOYS SHOWER 311A**
SCALE: 3/8" = 1'-0"

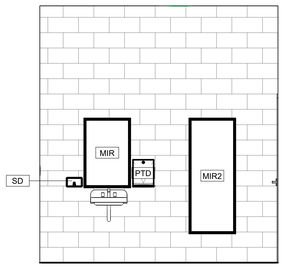
TOILET ACCESSORY LEGEND

NAME	DESCRIPTION
AHS	FULLY ACCESSIBLE HAND SHOWER HEAD
CH	COAT HOOK (WALL OR DOOR MOUNTED)
EHD	ELECTRIC HAND DRYER
EWC	ELECTRIC WATER COOLER + BF (BOTTLE FILLER)
FD	FLOOR DRAIN - SEE PLUMBING
GB	1 1/2" DIA SS GRAB BAR (GB# NOTED IN PLAN INDICATES LENGTH IN INCHES)
ADA	INDICATES TO MOUNT FIXTURE AT HANDICAPPED ACCESSIBLE HEIGHT
MIR	SS FRAMED WALL MIRROR ATTACHED WITH CONCEALED FASTENERS
SD	WALL MOUNTED GRAVITY FED SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL (WOMENS TOILET ROOMS ONLY)
TD	TOILET TISSUE DISPENSER

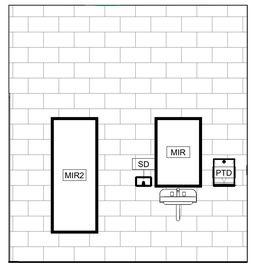
GENERAL NOTES:
1) SEE A-422 FOR TYP FIXTURE MOUNTING HEIGHTS.
2) ALL ADA STALL DOORS TO BE 3', AMB STALL DOORS 2'-10", STANDARD STALLS 2'-4".



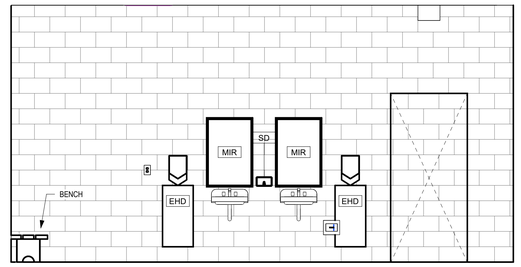
9 A-423.1 **LAVATORY ELEV- GIRLS SHOWER 308A**
SCALE: 3/8" = 1'-0"



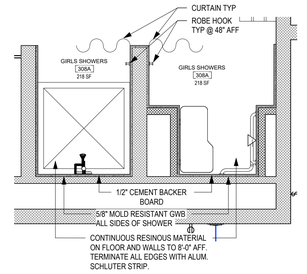
7 A-423.1 **LAVATORY ELEV- STAFF 309A**
SCALE: 3/8" = 1'-0"



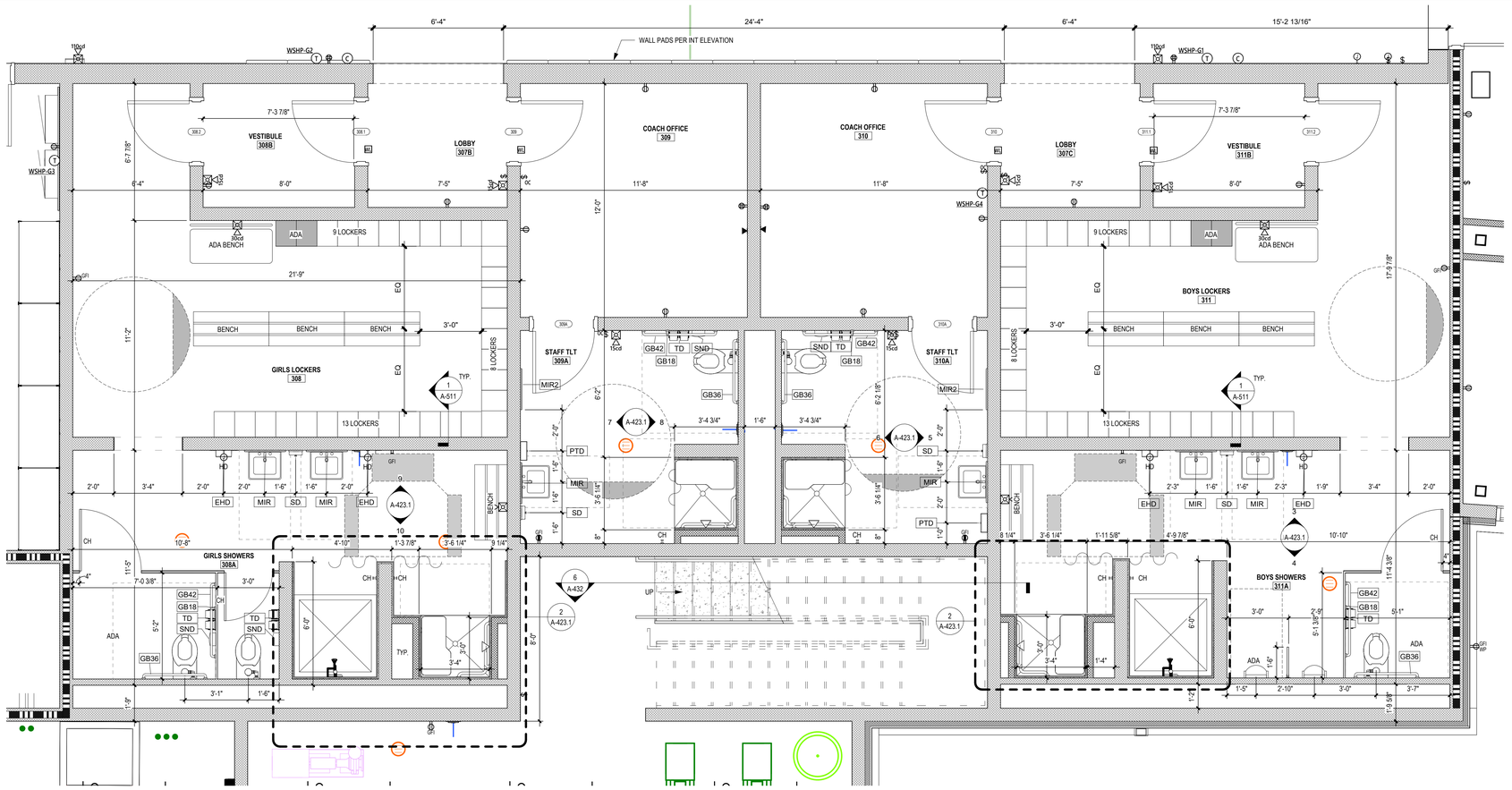
5 A-423.1 **LAVATORY ELEV- STAFF 310A**
SCALE: 3/8" = 1'-0"



3 A-423.1 **LAVATORY ELEV- BOYS SHOWER 311A**
SCALE: 3/8" = 1'-0"



2 A-423.1 **ENLARGED PLAN - TYP. SHOWERS**
SCALE: 3/8" = 1'-0"



1 A-423.1 **GYM BATHROOM PLANS**
SCALE: 3/8" = 1'-0"

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ENLARGED BATHROOM PLANS - GYM

A-423.1

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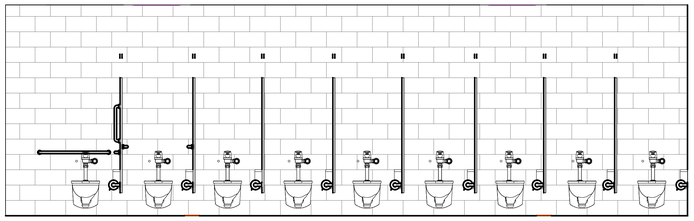
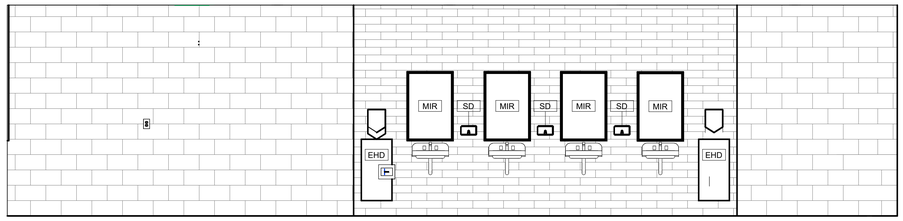
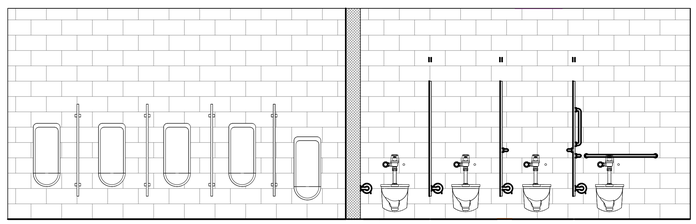


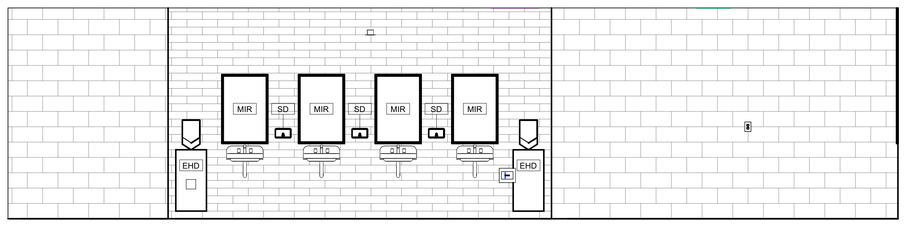
5 A-424 **411 GIRLS WATER CLOSET ELEVATION**
SCALE: 3/8" = 1'-0"



4 A-424 **411 GIRLS LAVATORY ELEVATION**
SCALE: 3/8" = 1'-0"



3 A-424 **413 BOYS WATER CLOSET ELEVATION**
SCALE: 3/8" = 1'-0"

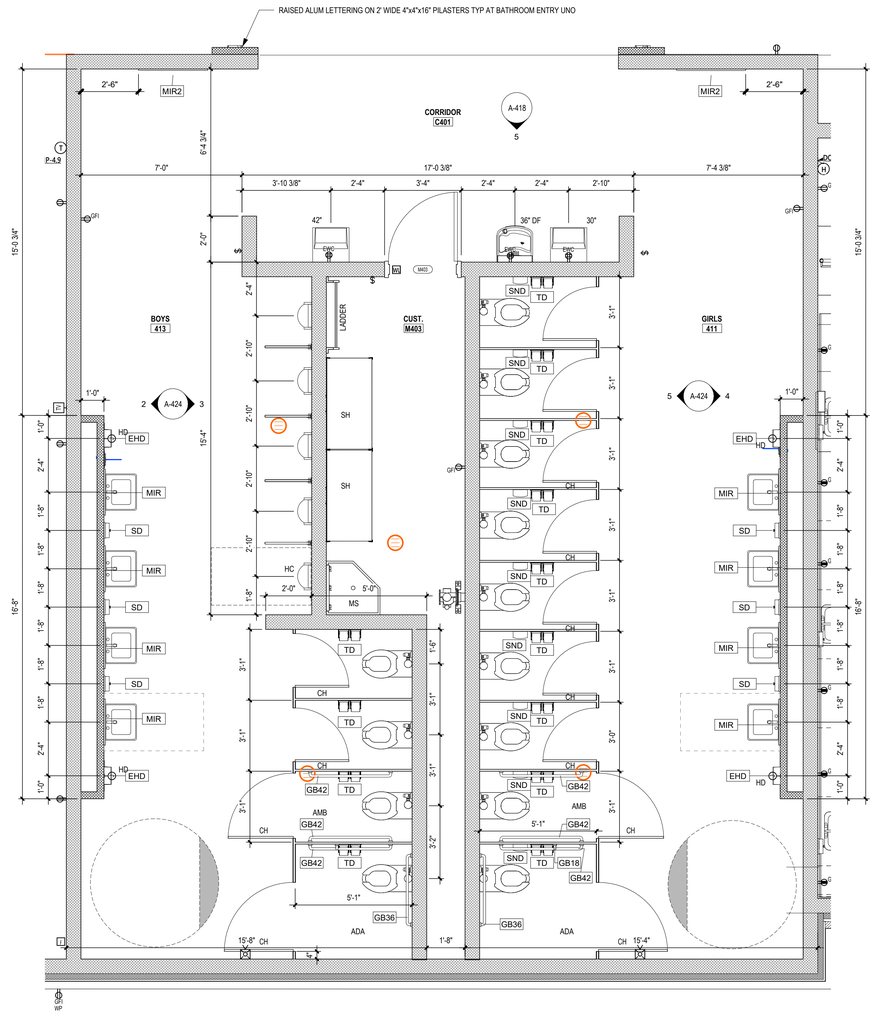


2 A-424 **413 BOYS LAVATORY ELEVATION**
SCALE: 3/8" = 1'-0"

TOILET ACCESSORY LEGEND

NAME	DESCRIPTION
AHS	FULLY ACCESSIBLE HAND SHOWER HEAD
CH	COAT HOOK (WALL OR DOOR MOUNTED)
EHD	ELECTRIC HAND DRYER
EWC	ELECTRIC WATER COOLER + BF (BOTTLE FILLER)
FD	FLOOR DRAIN - SEE PLUMBING
GB	1 1/2" DIA SS GRAB BAR (GB# NOTED IN PLAN INDICATES LENGTH IN INCHES)
ADA	INDICATES TO MOUNT FIXTURE AT HANDICAPPED ACCESSIBLE HEIGHT
MIR	SS FRAMED WALL MIRROR ATTACHED WITH CONCEALED FASTENERS
SD	WALL MOUNTED GRAVITY FED SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL (WOMENS TOILET ROOMS ONLY)
TD	TOILET TISSUE DISPENSER

GENERAL NOTES:
1) SEE A-422 FOR TYP FIXTURE MOUNTING HEIGHTS.
2) ALL ADA STALL DOORS TO BE 3', AMB STALL DOORS 2'-10", STANDARD STALLS 2'-4".



1 A-424 **AREA 400 - GROUP TOILET**
SCALE: 3/8" = 1'-0"

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ENLARGED BATHROOM PLANS - 400

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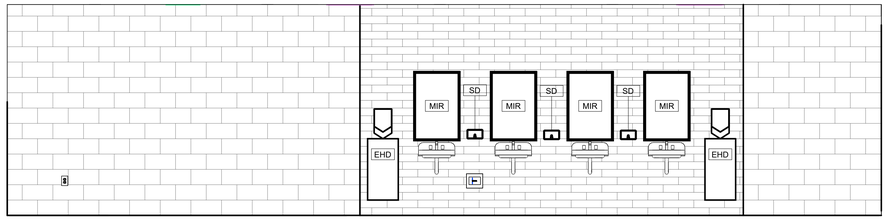
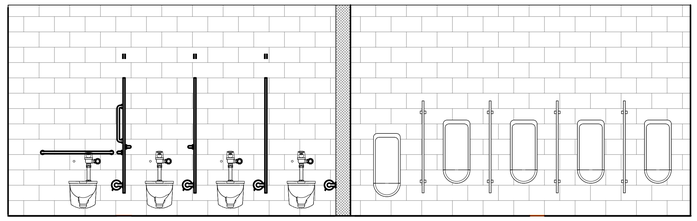
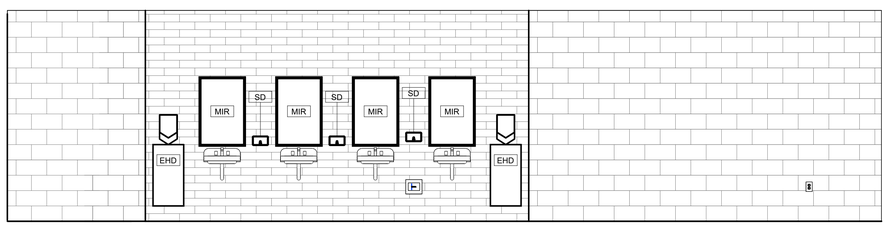


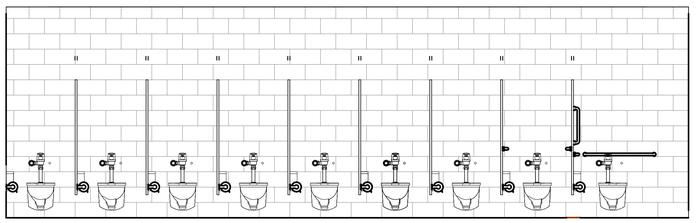
5 A-425 **500 GROUP TLT ELEV - BOYS SINK ELEV**
SCALE: 3/8" = 1'-0"



4 A-425 **500 GROUP TLT ELEV - BOYS WATER CLOSET ELEV**
SCALE: 3/8" = 1'-0"



3 A-425 **500 GROUP TLT ELEV - GIRLS SINK ELEV**
SCALE: 3/8" = 1'-0"

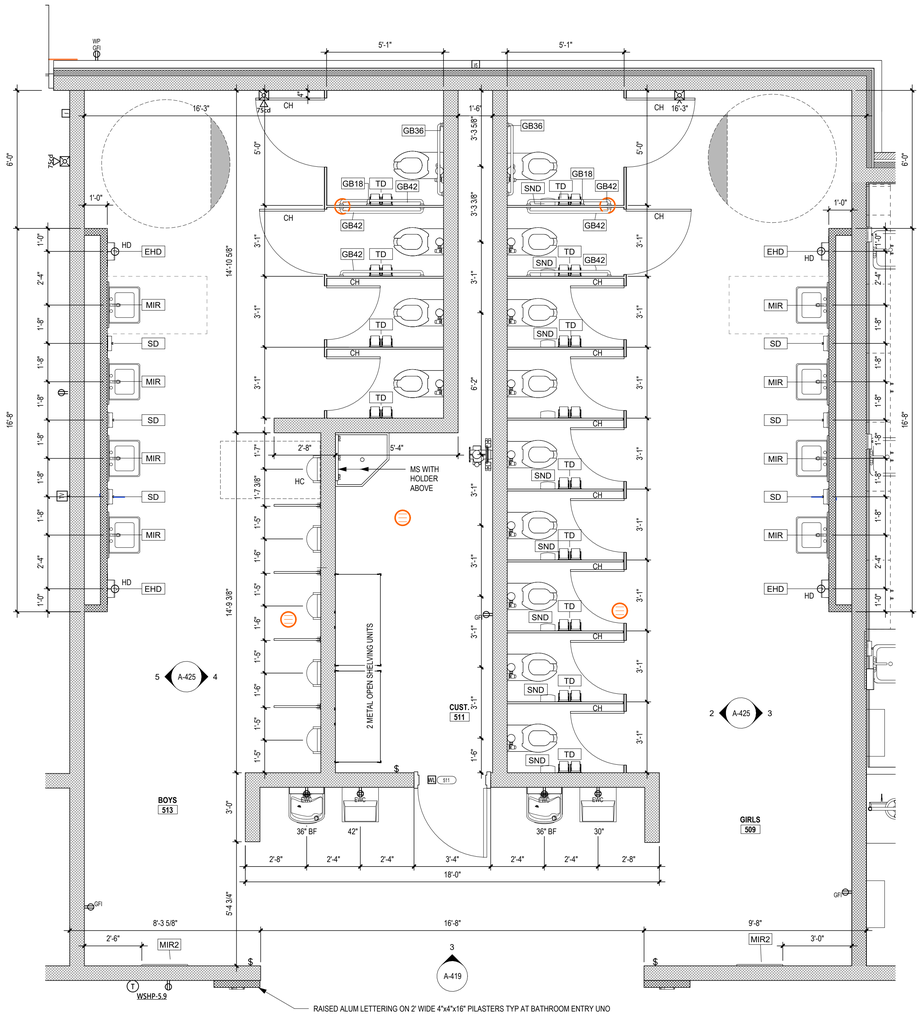


2 A-425 **500 GROUP TLT ELEV - GIRLS WATER CLOSET ELEV**
SCALE: 3/8" = 1'-0"

TOILET ACCESSORY LEGEND

NAME	DESCRIPTION
AHS	FULLY ACCESSIBLE HAND SHOWER HEAD
CH	COAT HOOK (WALL OR DOOR MOUNTED)
EHD	ELECTRIC HAND DRYER
EWC	ELECTRIC WATER COOLER + BF (BOTTLE FILLER)
FD	FLOOR DRAIN - SEE PLUMBING
GB	1 1/2" DIA SS GRAB BAR (GB# NOTED IN PLAN INDICATES LENGTH IN INCHES)
ADA	INDICATES TO MOUNT FIXTURE AT HANDICAPPED ACCESSIBLE HEIGHT
MIR	SS FRAMED WALL MIRROR ATTACHED WITH CONCEALED FASTENERS
SD	WALL MOUNTED GRAVITY FED SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL (WOMENS TOILET ROOMS ONLY)
TD	TOILET TISSUE DISPENSER

GENERAL NOTES:
1) SEE A-422 FOR TYP FIXTURE MOUNTING HEIGHTS.
2) ALL ADA STALL DOORS TO BE 3', AMB STALL DOORS 2'-10", STANDARD STALLS 2'-4".



1 A-425 **AREA 500 - GROUP TOILET PLAN**
SCALE: 3/8" = 1'-0"

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ENLARGED BATHROOM PLANS - 500

A-425

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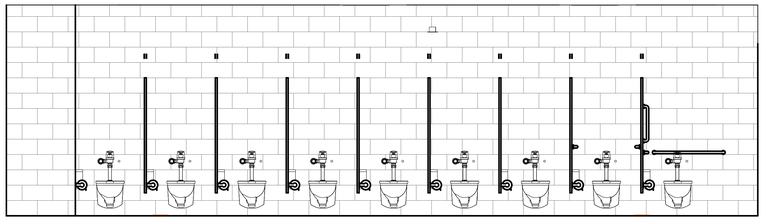
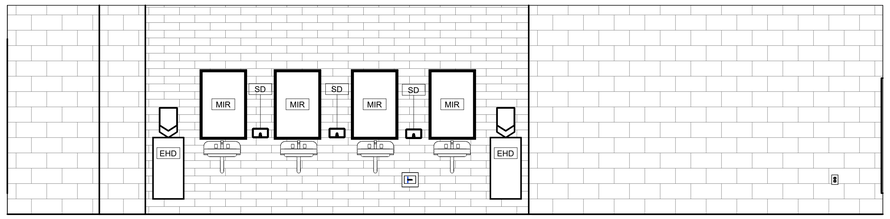
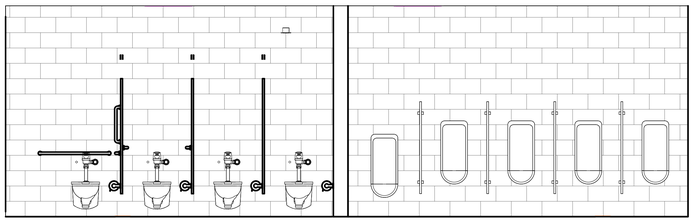


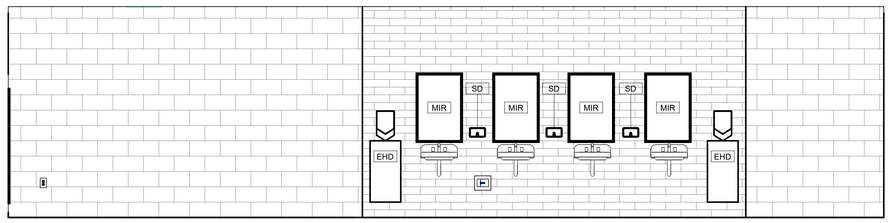
5 A-426 **600 GROUP TLT ELEV - GIRLS WATER CLOSET ELEV**
SCALE: 3/8" = 1'-0"



4 A-426 **600 GROUP TLT ELEV - GIRLS SINK ELEV**
SCALE: 3/8" = 1'-0"



3 A-426 **600 GROUP TLT ELEV - BOYS WATER CLOSET ELEV**
SCALE: 3/8" = 1'-0"

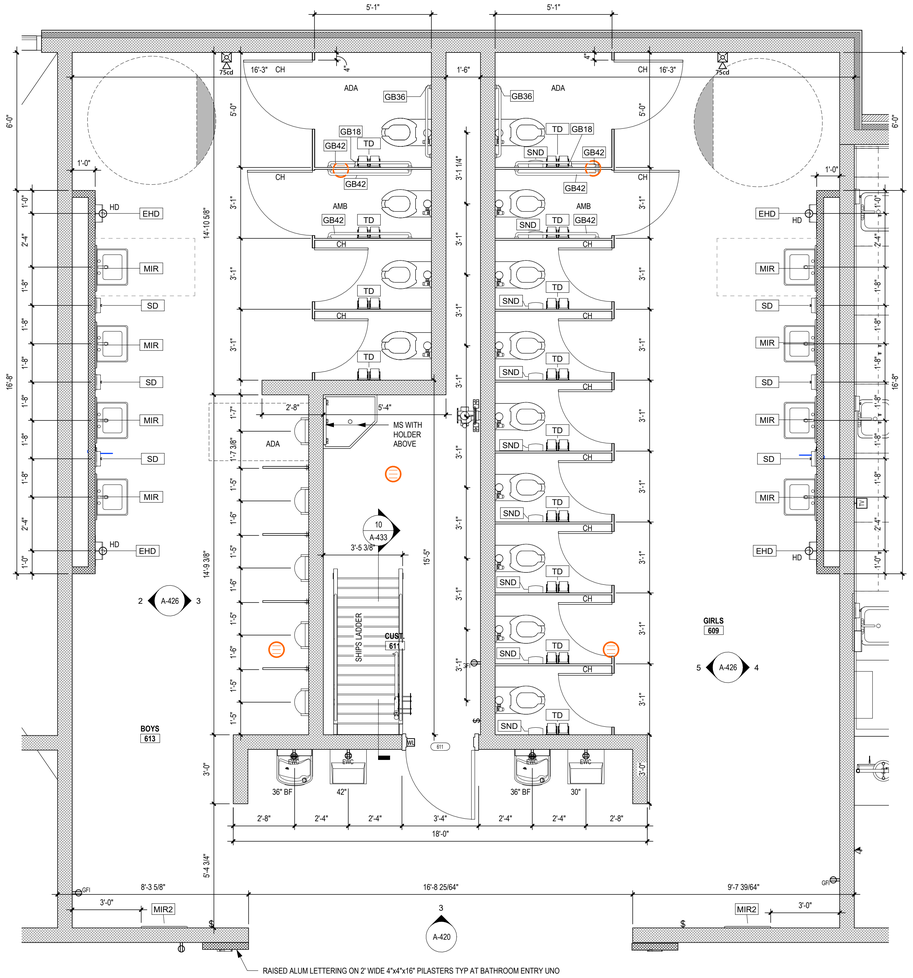


2 A-426 **600 GROUP TLT ELEV - BOYS SINK ELEV**
SCALE: 3/8" = 1'-0"

TOILET ACCESSORY LEGEND

NAME	DESCRIPTION
AHS	FULLY ACCESSIBLE HAND SHOWER HEAD
CH	COAT HOOK (WALL OR DOOR MOUNTED)
EHD	ELECTRIC HAND DRYER
EWC	ELECTRIC WATER COOLER + BF (BOTTLE FILLER)
FD	FLOOR DRAIN - SEE PLUMBING
GB	1 1/2" DIA SS GRAB BAR (GB# NOTED IN PLAN INDICATES LENGTH IN INCHES)
ADA	INDICATES TO MOUNT FIXTURE AT HANDICAPPED ACCESSIBLE HEIGHT
MIR	SS FRAMED WALL MIRROR ATTACHED WITH CONCEALED FASTENERS
SD	WALL MOUNTED GRAVITY FED SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL (WOMENS TOILET ROOMS ONLY)
TD	TOILET TISSUE DISPENSER

GENERAL NOTES:
1) SEE A-422 FOR TYP FIXTURE MOUNTING HEIGHTS.
2) ALL ADA STALL DOORS TO BE 3', AMB STALL DOORS 2'-10", STANDARD STALLS 2'-4".



1 A-426 **AREA 600 - GROUP TOILET PLAN**
SCALE: 3/8" = 1'-0"

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ENLARGED BATHROOM PLANS - 600

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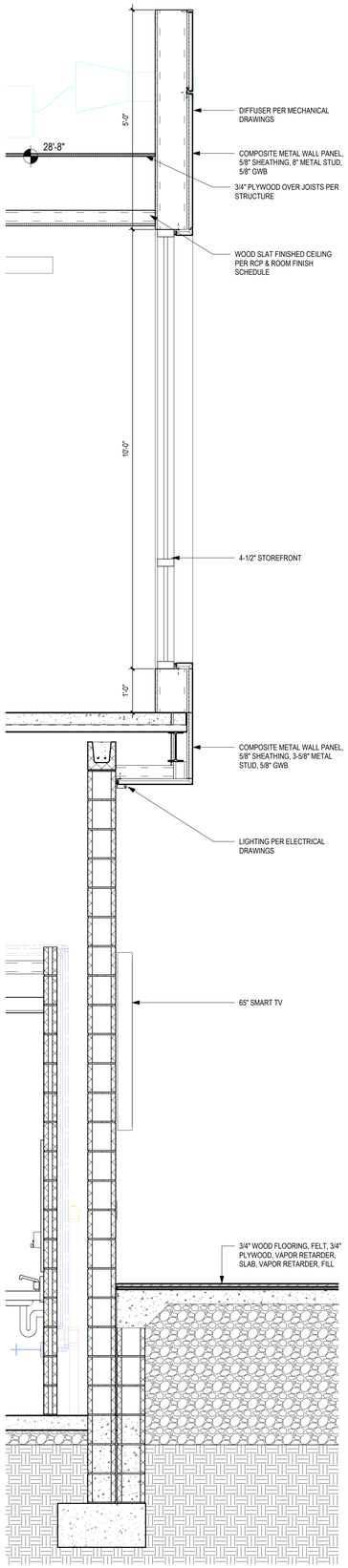
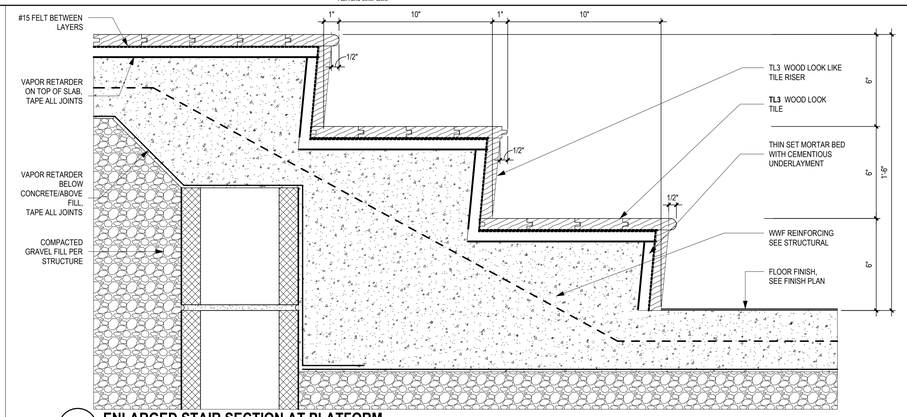
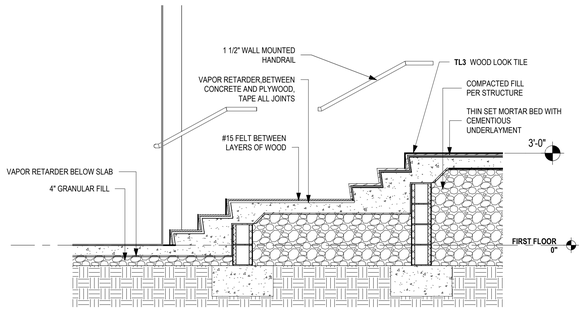


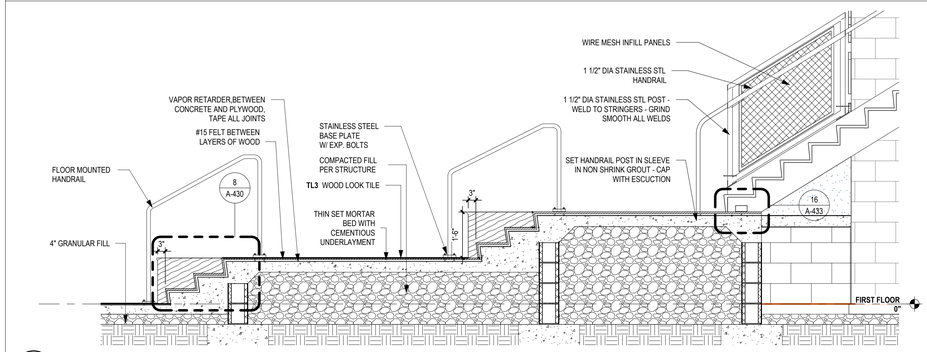
5 / A-430 — 600A STEM LAB WALL SECTION
SCALE: 3/4" = 1'-0"



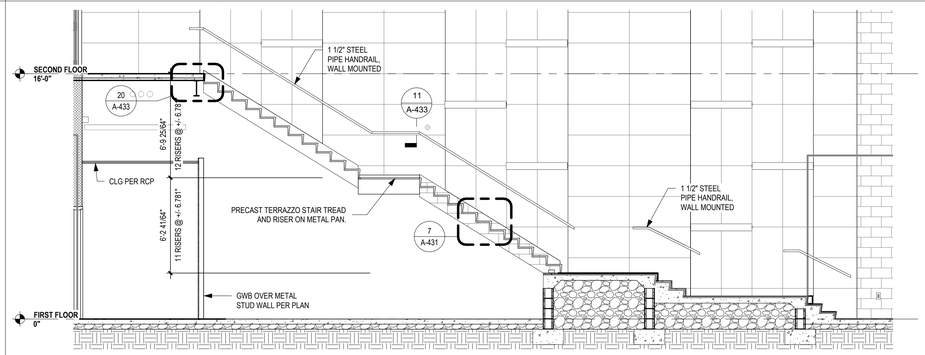
8 / A-430 — ENLARGED STAIR SECTION AT PLATFORM
SCALE: 3" = 1'-0"



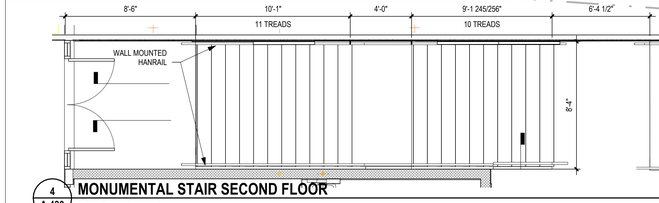
9 / A-430 — PLATFORM SECTION AT CORNER
SCALE: 1/2" = 1'-0"



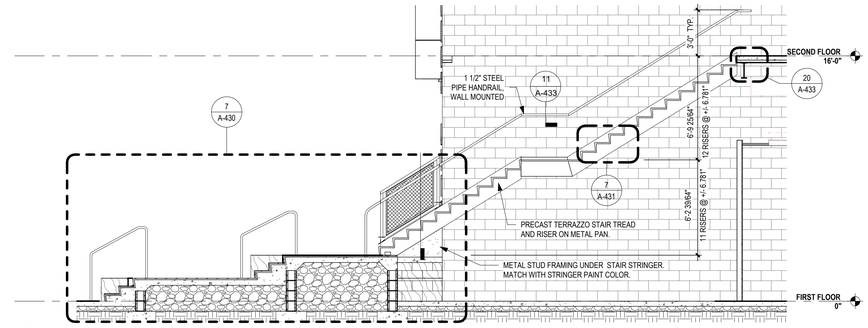
7 / A-430 — MONUMENTAL STAIR SECTION AT PLATFORM
SCALE: 1/2" = 1'-0"



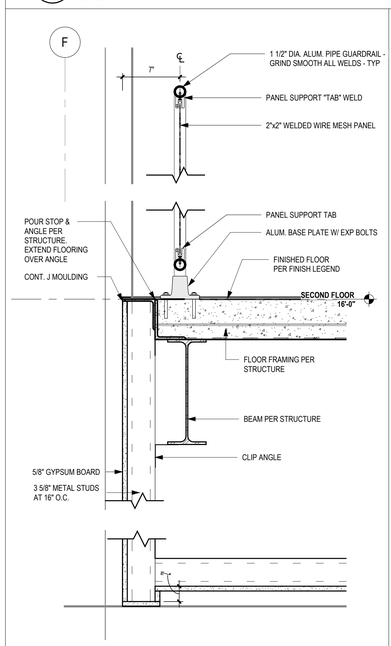
11 / A-430 — AREA 300 MONUMENTAL STAIR SECTION 2
SCALE: 1/4" = 1'-0"



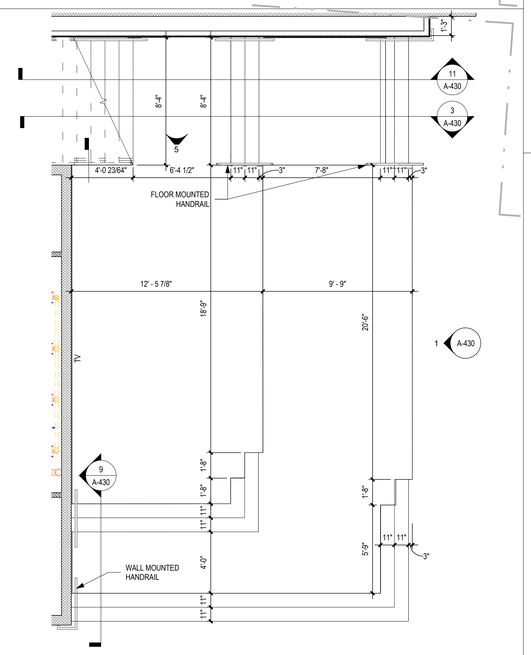
4 / A-430 — MONUMENTAL STAIR SECOND FLOOR
SCALE: 1/4" = 1'-0"



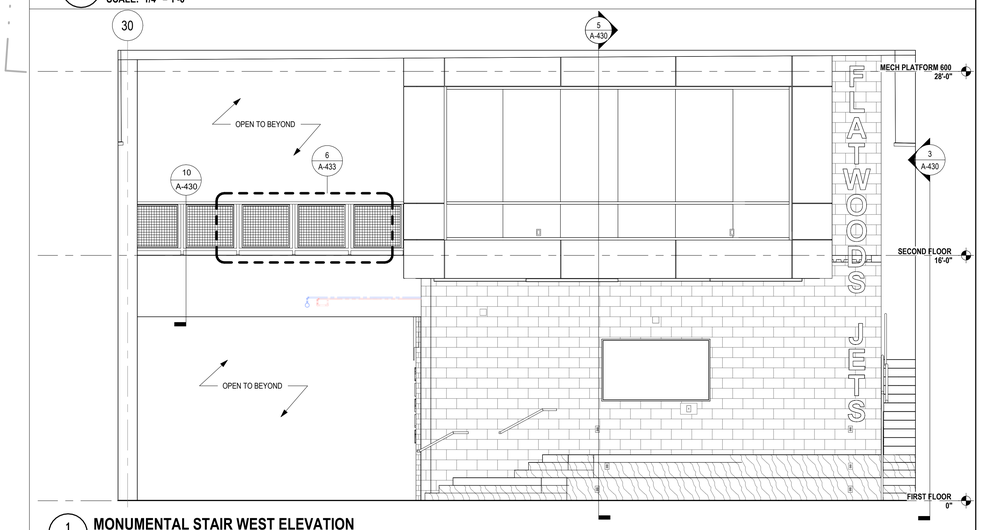
3 / A-430 — AREA 300 MONUMENTAL STAIR SECTION 1
SCALE: 1/4" = 1'-0"



10 / A-430 — SECTION AT GUARDRAIL @ SECOND FLOOR
SCALE: 1 1/2" = 1'-0"



2 / A-430 — AREA 300 - MONUMENTAL STAIR PLAN
SCALE: 1/4" = 1'-0"



1 / A-430 — MONUMENTAL STAIR WEST ELEVATION
SCALE: 1/4" = 1'-0"

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NORTH CAROLINA
RALEIGH

CONSTRUCTION DOCUMENTS

HARNETT COUNTY SCHOOLS
FLATWOODS MIDDLE SCHOOL
3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

ISSUE DATE: 11/08/24
PROJECT #: 02208.000
DRAWN BY: Author
CHECKED BY: Checker

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ENLARGED MONUMENTAL STAIR PLAN & SECTIONS

A-430

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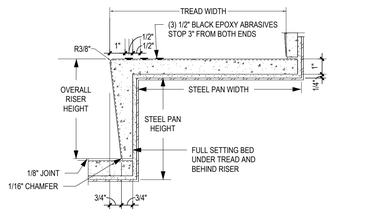
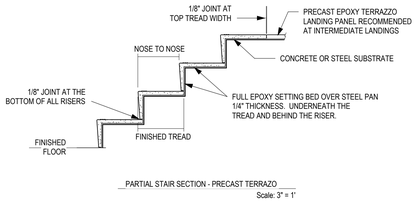
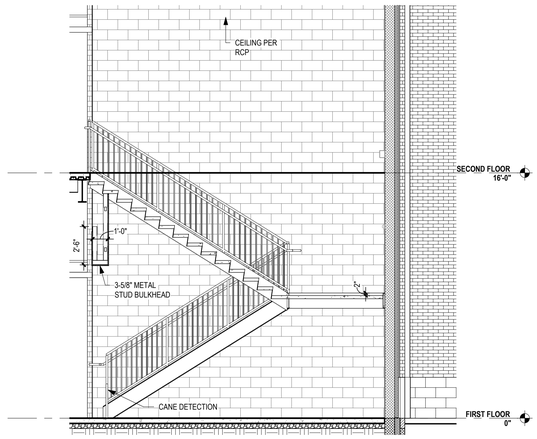


STAIR SECTION - PRECAST TERRAZO TREAD AND RISER
Scale: 6" = 1'-0"

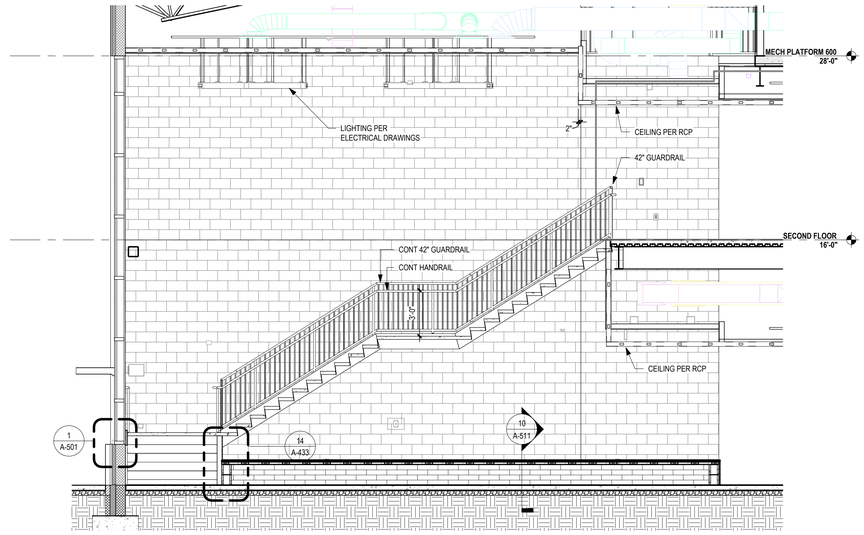


PARTIAL STAIR SECTION - PRECAST TERRAZO
Scale: 3" = 1'

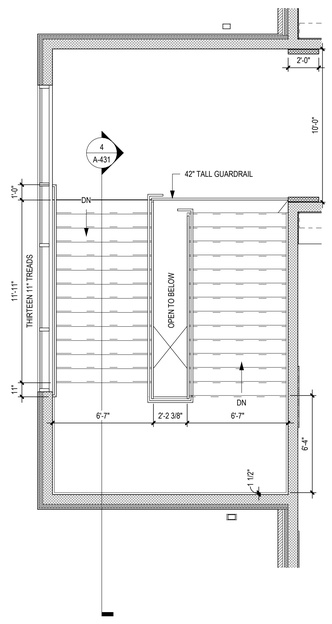
7 / A-431 **MONUMENTAL STAIR TREAD SECTION AT STRINGER**
SCALE: 3" = 1'-0"



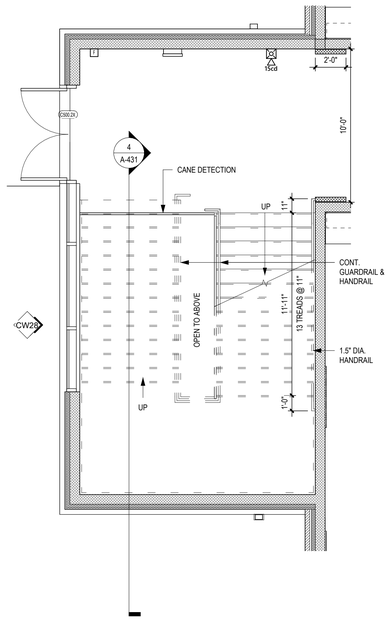
4 / A-431 **S501 STAIR SECTION**
SCALE: 1/4" = 1'-0"



2 / A-431 **S500 STAIR SECTION**
SCALE: 1/4" = 1'-0"



5 / A-431 **S501 STAIR PLAN-2ND FLOOR**
SCALE: 1/4" = 1'-0"



3 / A-431 **S501 STAIR PLAN-1ST FLOOR**
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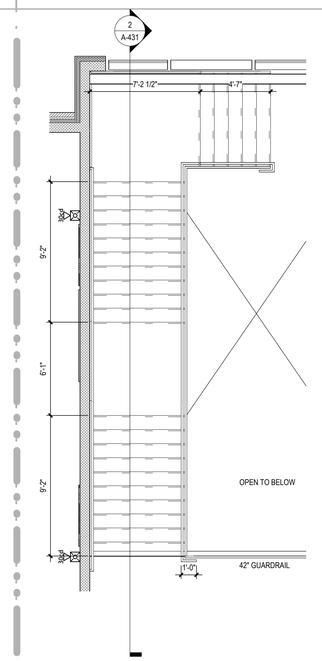
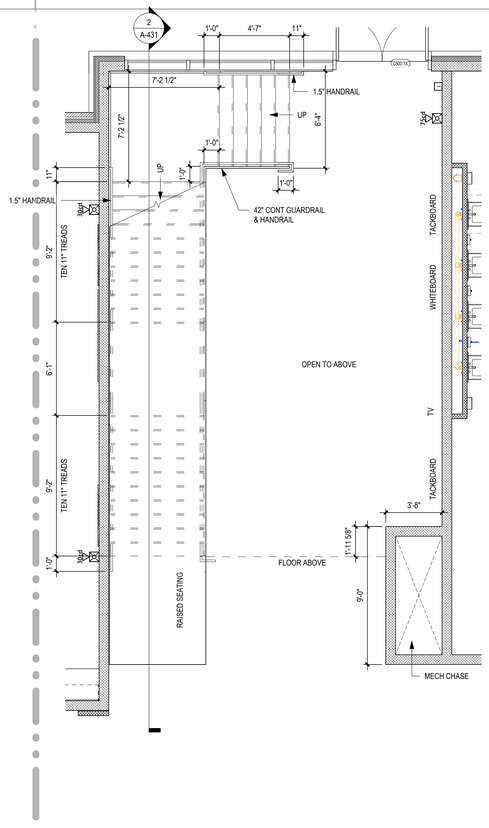


6 / A-431 **S500 STAIR PLAN-2ND FLOOR**
SCALE: 1/4" = 1'-0"



1 / A-431 **S500 STAIR PLAN-1ST FLOOR**
SCALE: 1/4" = 1'-0"

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ENLARGED STAIR PLANS & SECTIONS

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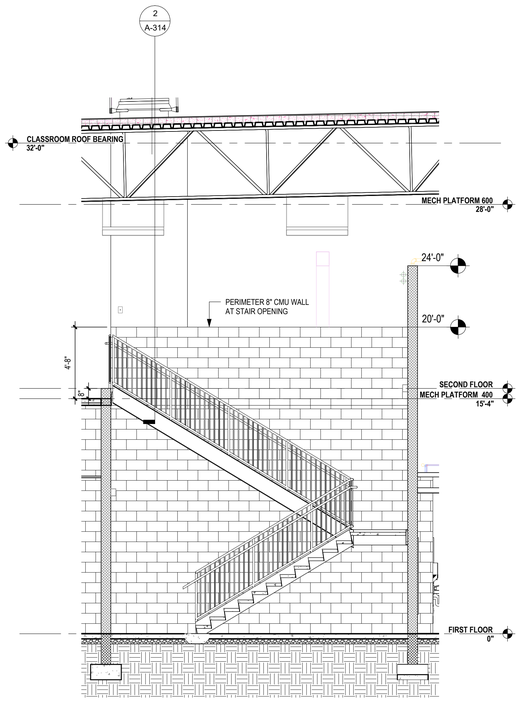
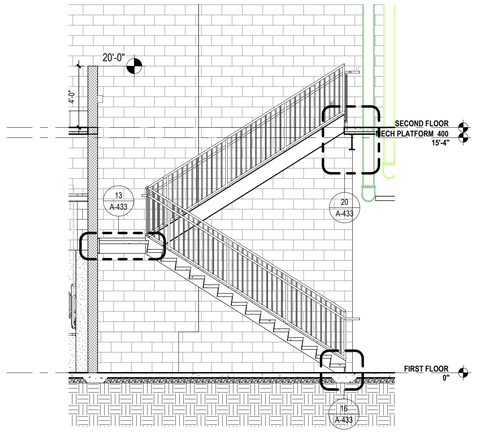


9 A-432 400-CUSTODIAN STAIR SECTION

SCALE: 1/4" = 1'-0"



6 A-432 M301-CUSTODIAN STAIR SECTION

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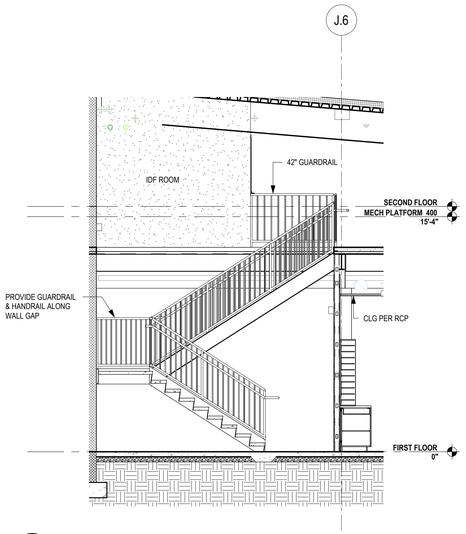

3 A-432 M200-CUSTODIAN STAIR SECTION

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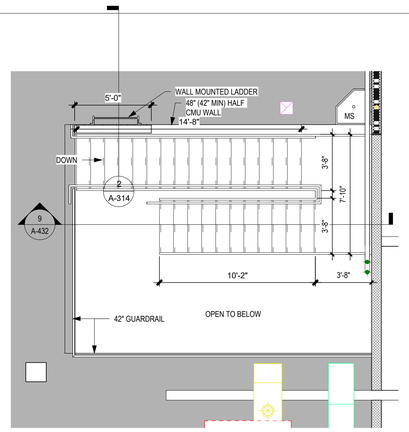
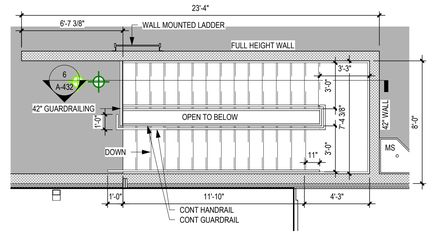


8 A-432 400-CUSTODIAN STAIR PLAN 2ND FLOOR

SCALE: 1/4" = 1'-0"



5 A-432 M301-CUSTODIAN STAIR PLAN 2ND FLOOR

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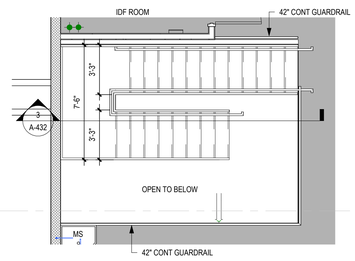

2 A-432 M200-CUSTODIAN STAIR PLAN 2ND FLOOR

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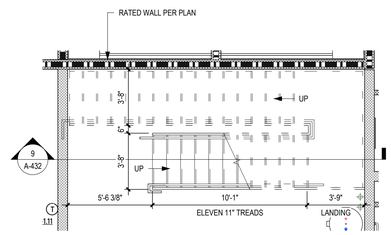
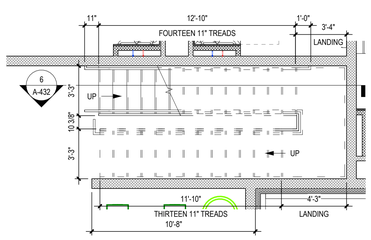


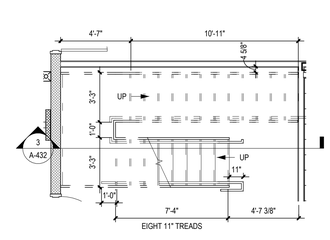
7 A-432 400-CUSTODIAN STAIR PLAN 1ST FLOOR

SCALE: 1/4" = 1'-0"



4 A-432 M301-CUSTODIAN STAIR PLAN 1ST FLOOR

SCALE: 1/4" = 1'-0"



1 A-432 M200-CUSTODIAN STAIR PLAN 1ST FLOOR

SCALE: 1/4" = 1'-0"

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ENLARGED UTILITY STAIR PLANS & SECTIONS

A-432

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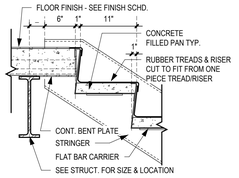
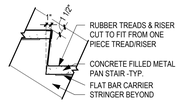
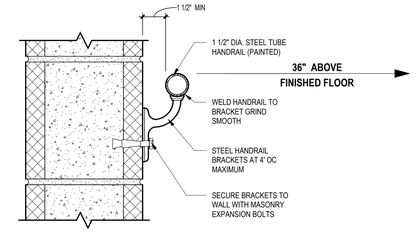


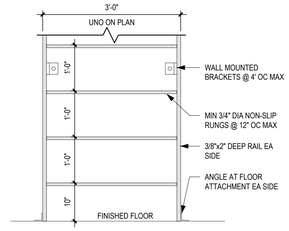
20 A-433 **TYP STAIR @ SLAB EDGE DETAIL**
SCALE: 1" = 1'-0"



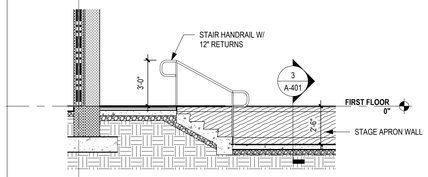
19 A-433 **THREAD DETAIL**
SCALE: 1" = 1'-0"



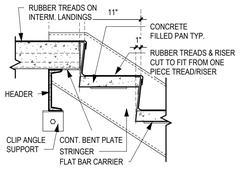
11 A-433 **WALL MOUNTED HANDRAIL DETAIL**
SCALE: 3" = 1'-0"



8 A-433 **WALL MOUNTED LADDER**
SCALE: 3/4" = 1'-0"



4 A-433 **AUDITORIUM STAIR SECTION**
SCALE: 1/4" = 1'-0"



18 A-433 **TYP STAIR @ LANDING DETAIL**
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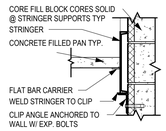
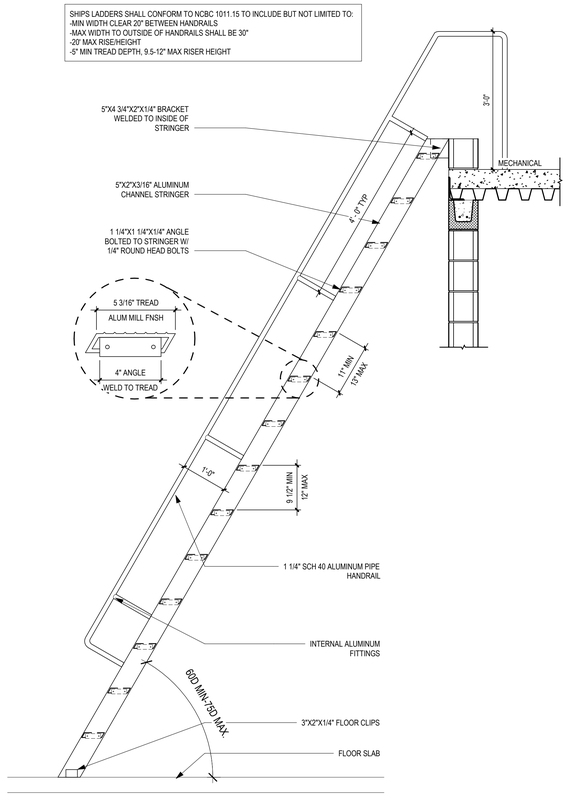
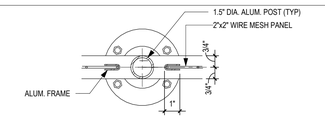


17 A-433 **TYP STRINGER DETAIL**
SCALE: 1" = 1'-0"

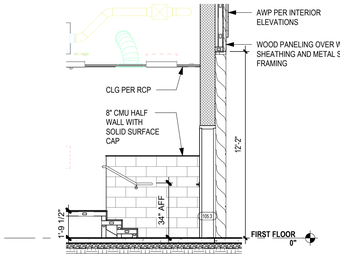
SHIPS LADDERS SHALL CONFORM TO NCBC 1011.15 TO INCLUDE BUT NOT LIMITED TO:
-MIN WIDTH CLEAR 20" BETWEEN HANDRAILS
-MAX WIDTH TO OUTSIDE OF HANDRAILS SHALL BE 30"
-20° MAX RISE/HEIGHT
-5" MIN TREAD DEPTH, 9.5-12" MAX RISER HEIGHT



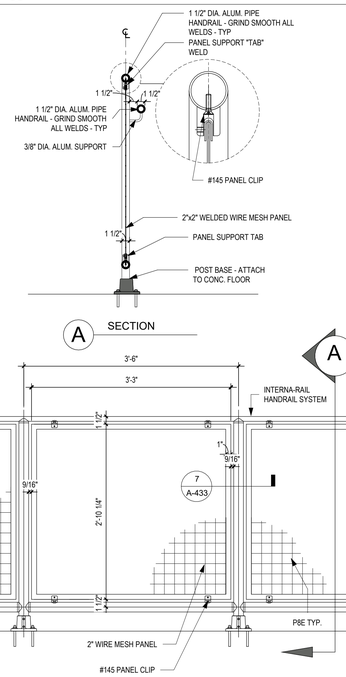
10 A-433 **SHIPS LADDER SECTION**
SCALE: 3/4" = 1'-0"

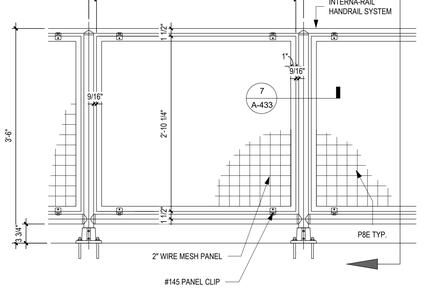


7 A-433 **PLAN DETAIL WIRE MESH GUARDRAIL POST**
SCALE: 3" = 1'-0"

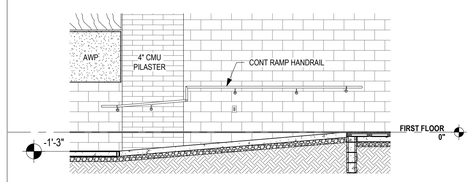


3 A-433 **CONTROL ROOM STAIR SECTION**
SCALE: 1/4" = 1'-0"

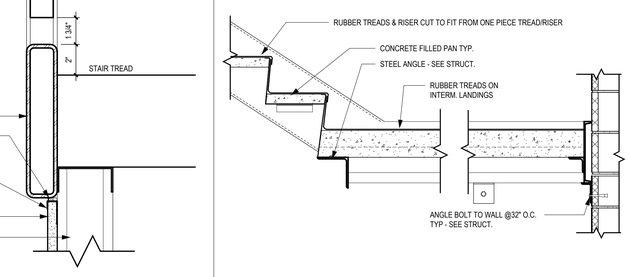




6 A-433 **GUARDRAIL ELEV - MONUMENTAL STAIR**
SCALE: 1" = 1'-0"

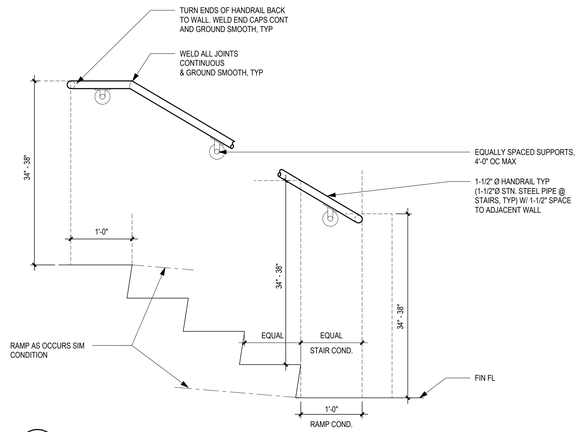


2 A-433 **AUDITORIUM RAMP SECTION**
SCALE: 1/4" = 1'-0"



14 A-433 **WALL TERM UNDER STAIR STRINGER**
SCALE: 3" = 1'-0"

13 A-433 **TYPICAL STAIR AT LANDING SECTION**
SCALE: 1" = 1'-0"



12 A-433 **TYPICAL WALL MOUNT HANDRAIL DETAIL**
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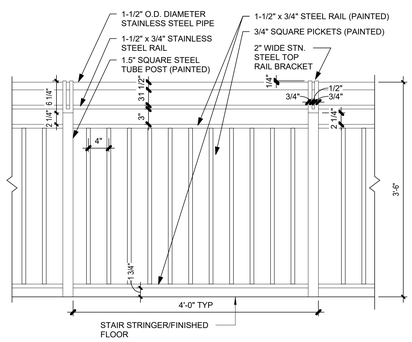

9 A-433 **GUARDRAIL ELEVATION - 500/600 WING STAIRS**
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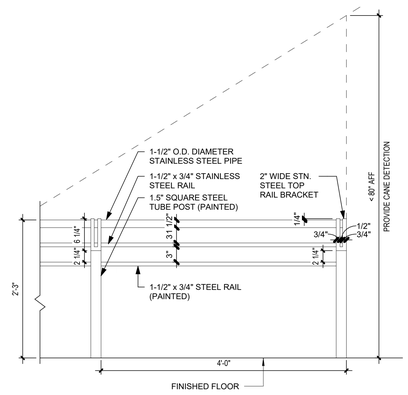
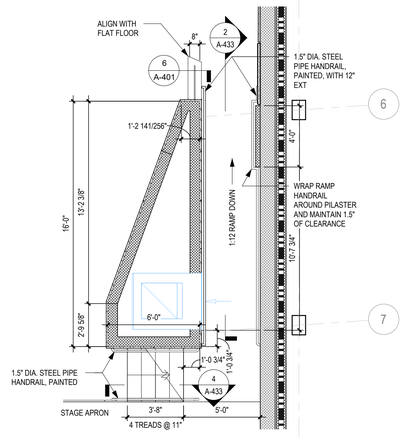


5 A-433 **CANE DETECTION ELEVATION**
SCALE: 1" = 1'-0"



1 A-433 **ENLARGED AUDITORIUM RAMP PLAN**
SCALE: 1/4" = 1'-0"

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AUDITORIUM RAMP & STAIR DETAILS

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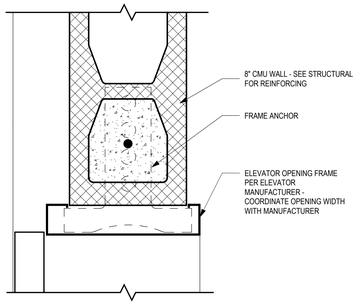

6 / A-434 ELEVATOR DOOR JAMB DETAIL
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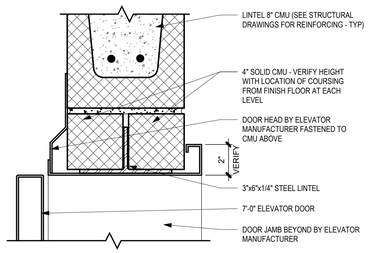

5 / A-434 ELEVATOR DOOR HEAD DETAIL
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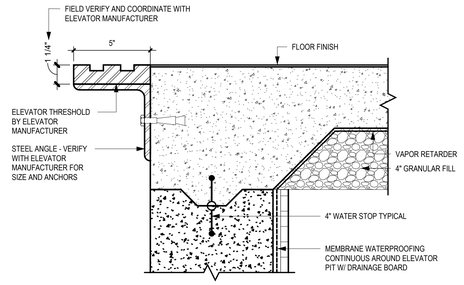
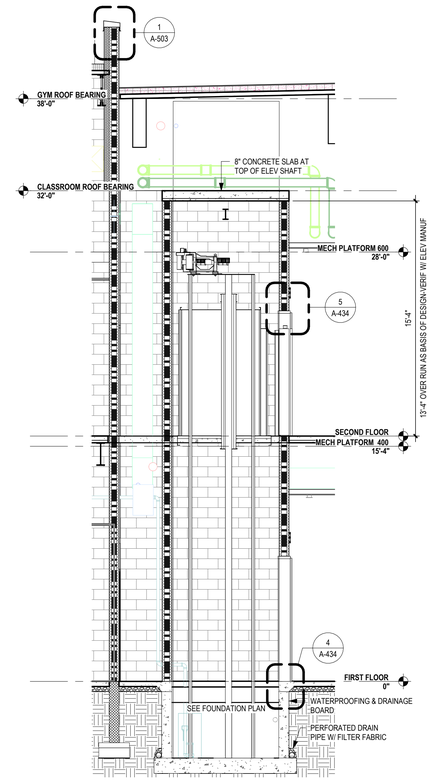
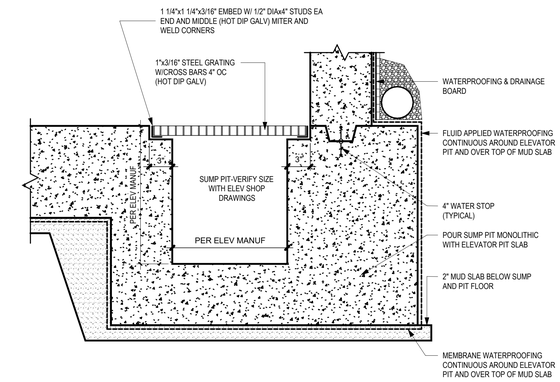


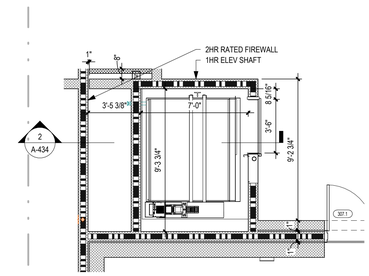
4 / A-434 ELEVATOR DOOR SILL DETAIL
SCALE: 3" = 1'-0"



2 / A-434 ELEVATOR SECTION
SCALE: 1/4" = 1'-0"



3 / A-434 ELEVATOR SUMP PIT SECTION
SCALE: 1 1/2" = 1'-0"



1 / A-434 ENLARGED ELEVATOR PLAN-FIRST FLOOR
SCALE: 1/4" = 1'-0"

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FLATWOODS MIDDLE SCHOOL

3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

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ELEVATOR SECTION AND DETAILS

A-434

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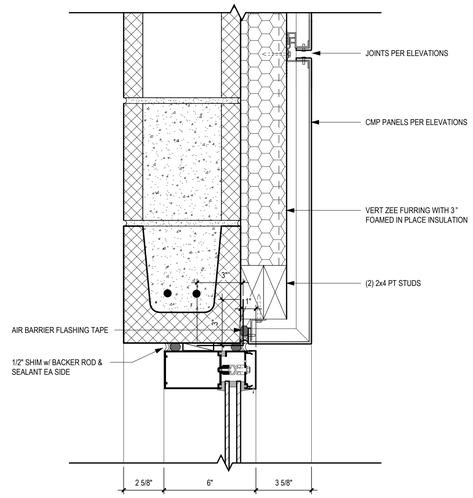
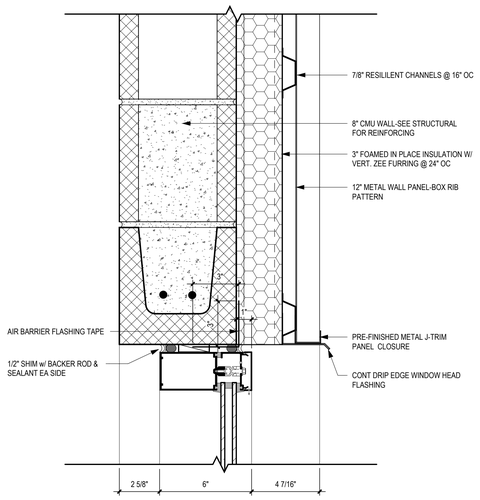
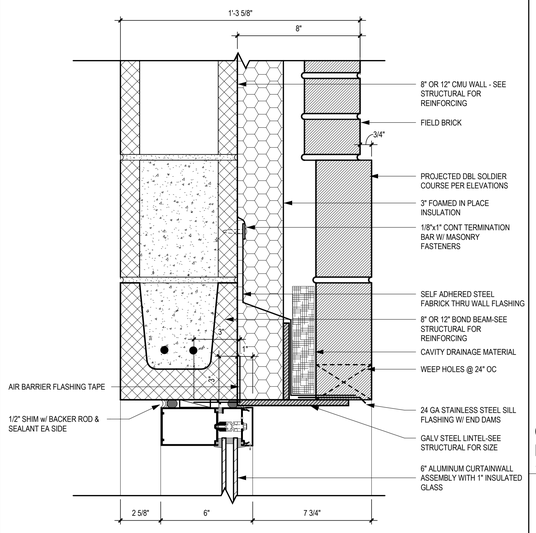


9 A-501 **TYP CURTAINWALL HEAD DETAIL-CMP**
SCALE: 3" = 1'-0"



6 A-501 **TYP CURTAINWALL HEAD DETAIL-METAL WALL PANEL**
SCALE: 3" = 1'-0"



3 A-501 **TYP CURTAINWALL HEAD DETAIL-BRICK**
SCALE: 3" = 1'-0"

11 A-501 **SUNSHADE SECTION AT WINDOW**
SCALE: 1 1/2" = 1'-0"

8 A-501 **TYP CURTAINWALL JAMB DETAIL-CMP**
SCALE: 3" = 1'-0"

5 A-501 **TYP CURTAINWALL JAMB DETAIL-METAL WALL PANEL**
SCALE: 3" = 1'-0"

2 A-501 **TYP CURTAINWALL JAMB DETAIL-BRICK**
SCALE: 3" = 1'-0"

10 A-501 **AIR BARRIER TAPE DETAIL**
SCALE: 3" = 1'-0"

7 A-501 **TYP CURTAINWALL SILL DETAIL-CMP**
SCALE: 3" = 1'-0"

4 A-501 **TYP CURTAINWALL SILL DETAIL-METAL PANEL**
SCALE: 3" = 1'-0"

1 A-501 **TYP CURTAINWALL SILL DETAIL-CMU**
SCALE: 3" = 1'-0"

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DETAILS-EXT WINDOW

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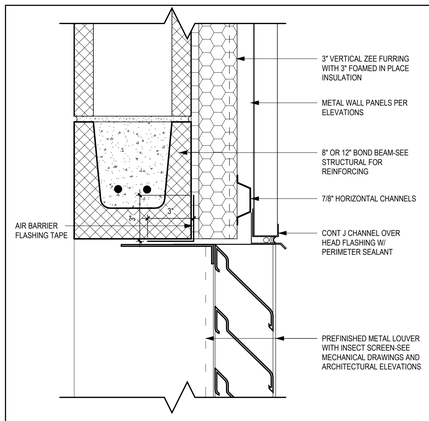
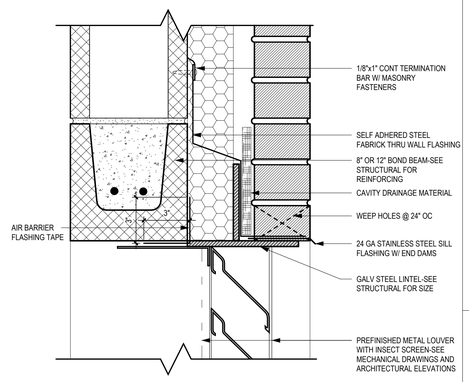
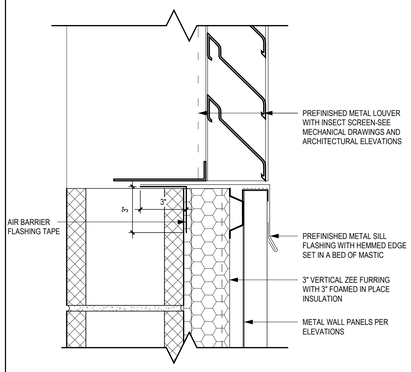
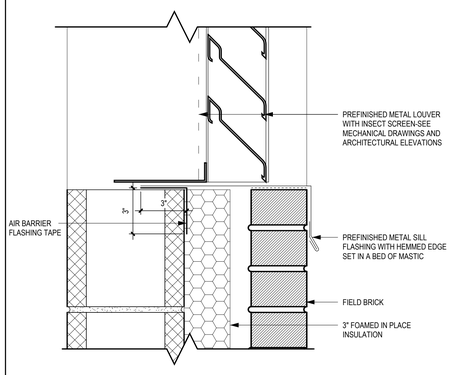


10 A-502 WALL LOUVER HEAD DETAIL
SCALE: 3" = 1'-0"

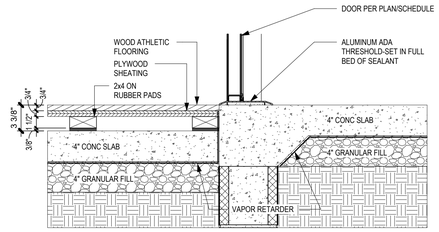


9 A-502 WALL LOUVER SILL DETAIL
SCALE: 3" = 1'-0"

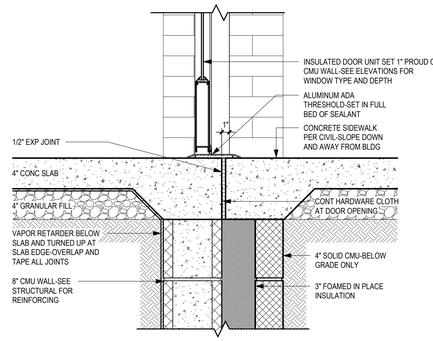




11 A-502 DOOR THRESHOLD AT GYM
SCALE: 1 1/2" = 1'-0"

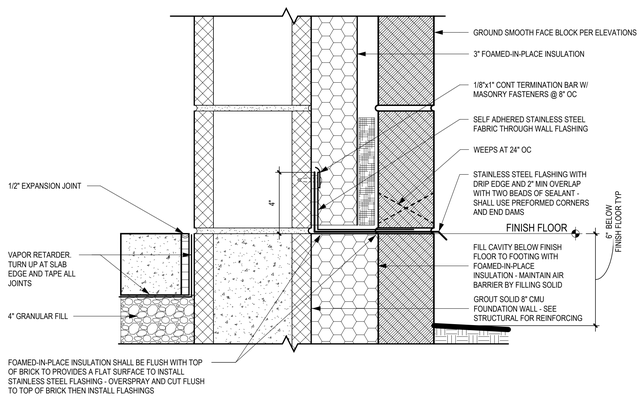


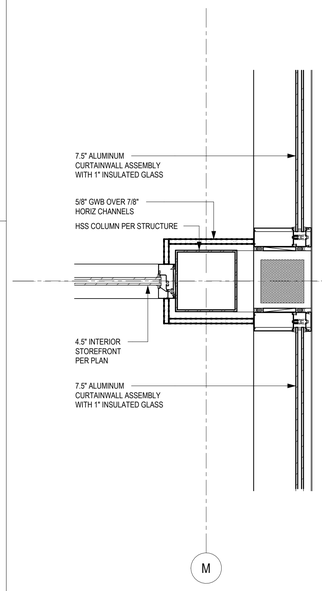
7 A-502 EXT DOOR THRESHOLD DETAIL
SCALE: 1 1/2" = 1'-0"



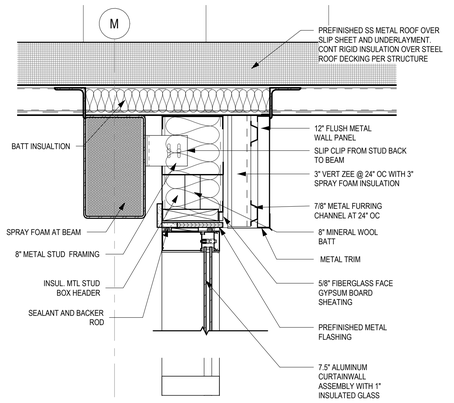
6 A-502 TYP WALL BASE DETAIL-CMP @ GRADE
SCALE: 3" = 1'-0"

5 A-502 TYP WALL BASE DETAIL-SMOOTH FACE CMU
SCALE: 3" = 1'-0"

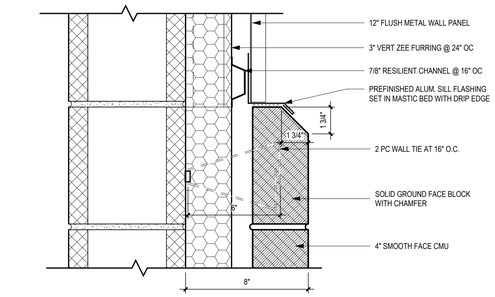




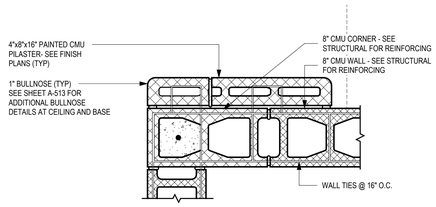
12 A-502 PLAN DETAIL AT FRONT ENTRY
SCALE: 1 1/2" = 1'-0"



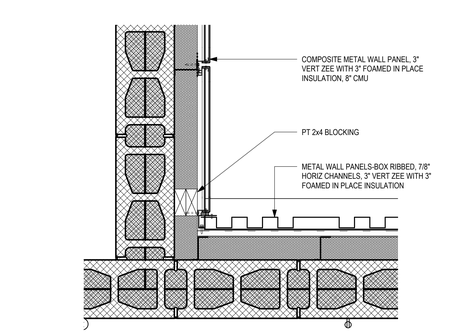
8 A-502 THERMAL BREAK AT TOP OF CURTAIN WALL-ENTRY & MEDIA
SCALE: 1 1/2" = 1'-0"



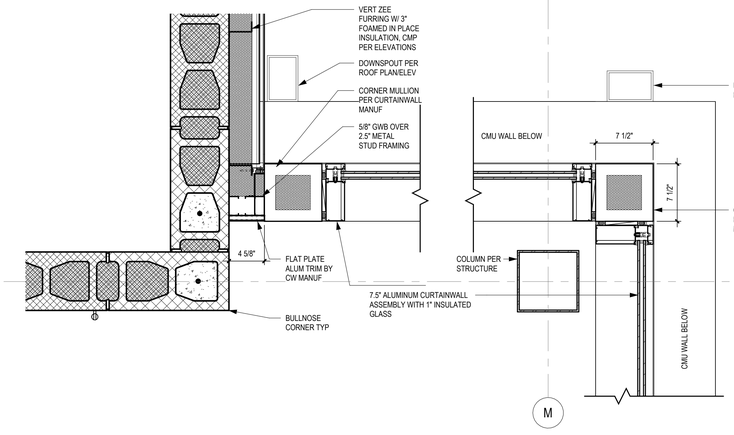
4 A-502 GROUND FACE CMU SILL AT METAL PANEL DETAIL
SCALE: 3" = 1'-0"



3 A-502 INTERIOR PILASTER PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



2 A-502 INT CORNER PLAN DETAIL AT CMP/BOXED RIB MTL PANEL
SCALE: 1 1/2" = 1'-0"



1 A-502 PLAN DETAIL AT FRONT ENTRY CORNER
SCALE: 1 1/2" = 1'-0"

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DETAILS

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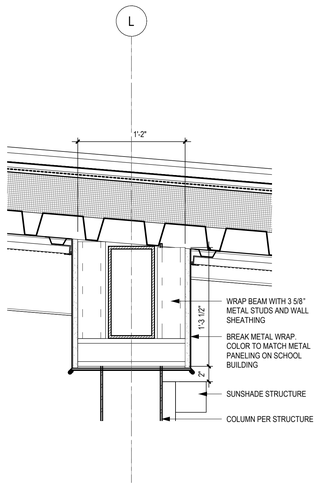
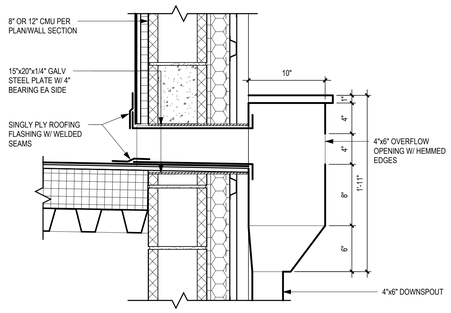
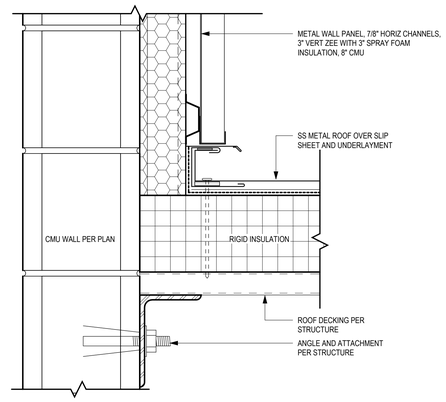


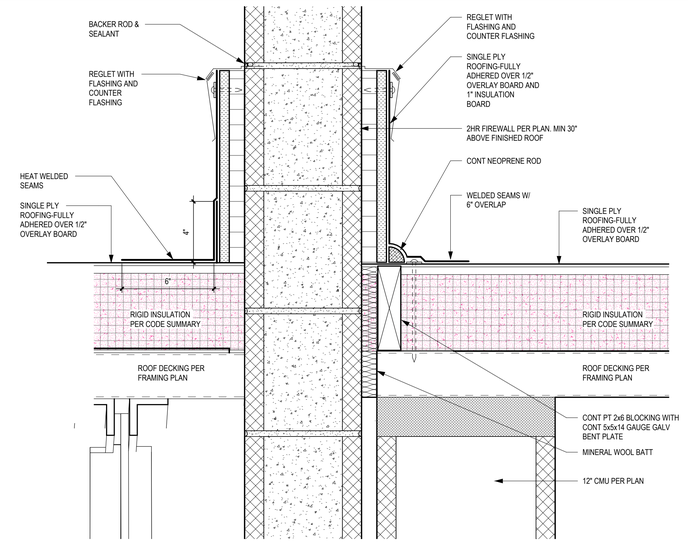
12 / A-503 **TOP OF COLUMN DETAIL AT FRONT ROOF OVERHANG**
SCALE: 1 1/2" = 1'-0"



9 / A-503 **CONDUCTOR HEAD DETAIL**
SCALE: 1 1/2" = 1'-0"



6 / A-503 **ROOF RAKE ALONG METAL WALL PANEL**
SCALE: 3" = 1'-0"



3 / A-503 **TPO ROOF AT EJ/FIREWALL**
SCALE: 3" = 1'-0"

11 / A-503 **TOP OF WALL DETAIL-METAL PANEL**
SCALE: 1 1/2" = 1'-0"

8 / A-503 **TOP OF WALL DETAIL-BRICK**
SCALE: 1 1/2" = 1'-0"

5 / A-503 **TYP ROOF FASCIA DETAIL**
SCALE: 3" = 1'-0"

2 / A-503 **TYP WINDOW SILL DETAIL AT CLERESTORY**
SCALE: 3" = 1'-0"

10 / A-503 **ROOF RAKE AT 3" DECK**
SCALE: 3" = 1'-0"

7 / A-503 **DOWNSPOUT DETAIL**
SCALE: 1 1/2" = 1'-0"

4 / A-503 **GUTTER EXPANSION JOINT DETAIL**
SCALE: 3" = 1'-0"

NOTE: AT TOP OF PARAPET WALL, CONSTRUCT COPING PLYWOOD "SANDWICH" AT ATTACH TO ANCHOR BOLT AND LAG BOLTS AT CLIP ANGLES

1 / A-503 **PARAPET CAP DETAIL-CMP OVER METAL STUD OR CMU**
SCALE: 3" = 1'-0"

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DETAILS-ROOF

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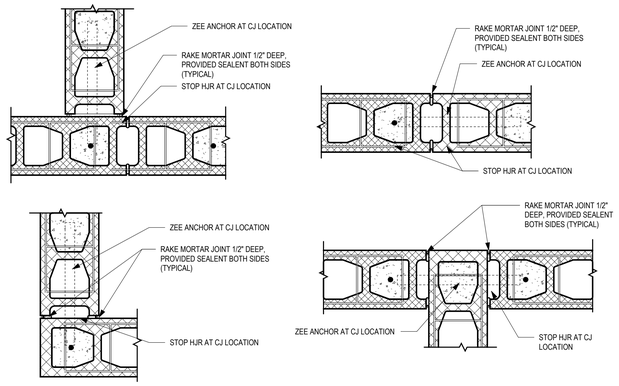
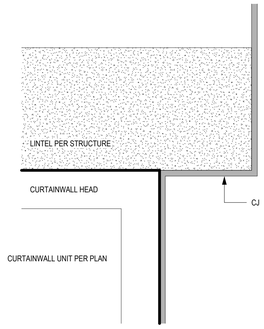
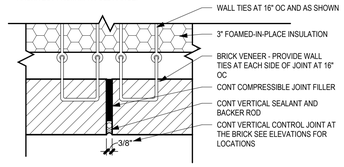


11 / A-504 TYPICAL CMU WALL CONTROL JOINT DETAILS
SCALE: 1 1/2" = 1'-0"

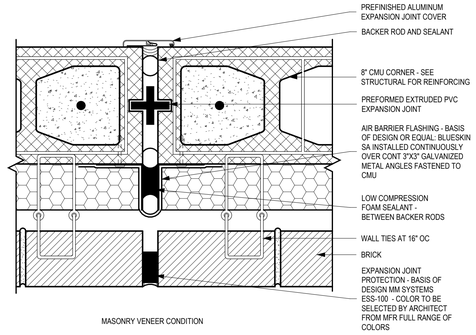


CJ ELEVATION AT GLAZING UNIT

NOTE:
1) CONTROL JOINTS IN BRICK VENEER TERMINATE AT THE BOTTOM OF THE THROUGH WALL FLASHING.
2) CONTROL JOINT COLOR TO BE SELECTED BY ARCHITECT FROM MFR FULL RANGE.

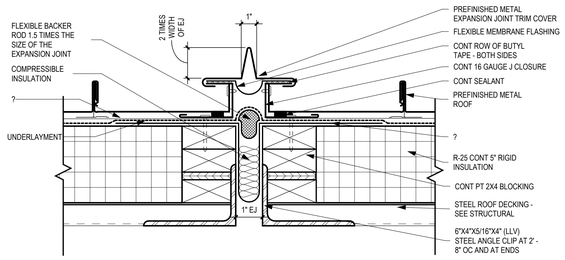


10 / A-504 TYP CONTROL JOINT (CJ) DETAIL AT BRICK
SCALE: 3" = 1'-0"

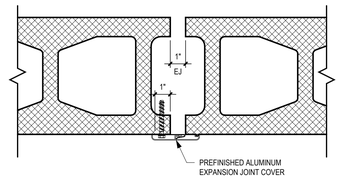


MASONRY VENEER CONDITION

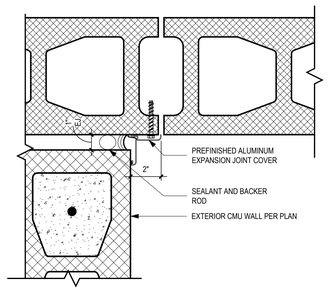
9 / A-504 TYPICAL EXTERIOR EXPANSION JOINT (EJ) DETAIL
SCALE: 3" = 1'-0"



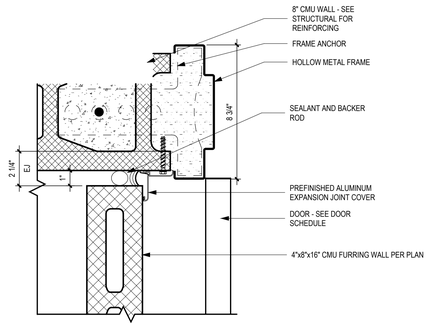
8 / A-504 ROOF EXPANSOIN JOINT DETAIL-SS METAL ROOF
SCALE: 3" = 1'-0"



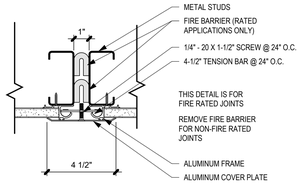
CMU WALL EJ COVER DETAIL AT PARRALLEL WALLS



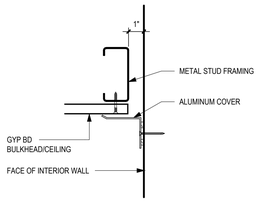
CMU WALL EJ COVER DETAIL AT PERPENDICULAR WALLS



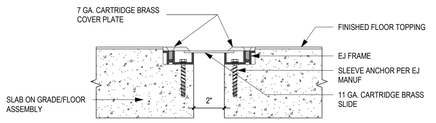
CMU WALL EJ COVER DETAIL AT FIRE DOORS



GYP BD WALL EJ COVER DETAIL

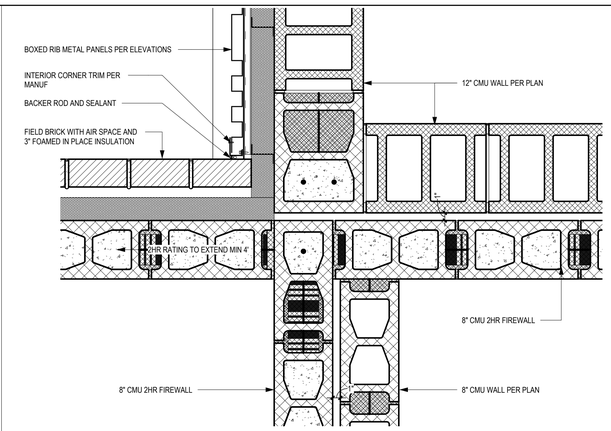


GYP BD BULKHEAD EJ COVER AT WALL

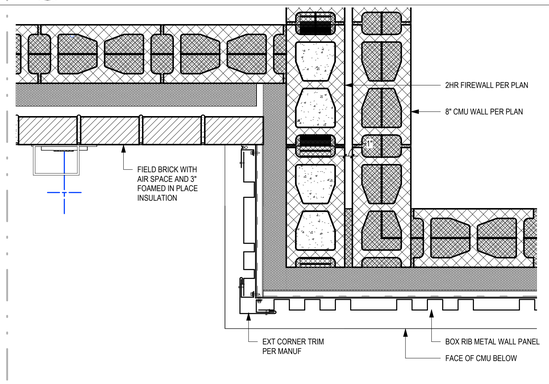


SLAB ON GRADE / FIRST FLOOR EXPANSION JOINT

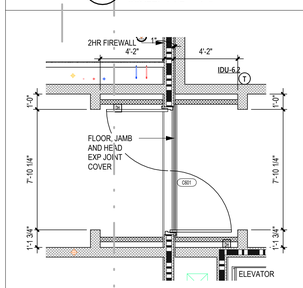
7 / A-504 BUILDING INTERIOR EXPANSION JOINT DETAILS
SCALE: 3" = 1'-0"



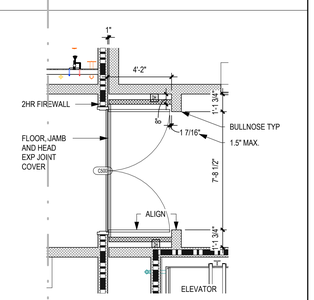
6 / A-504 EXT DETAIL AT AUDITORIUM FIREWALL
SCALE: 1 1/2" = 1'-0"



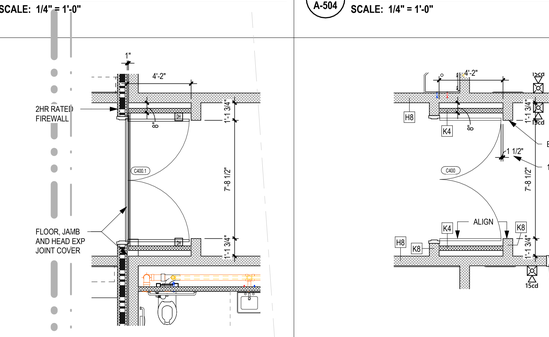
5 / A-504 EXT DETAIL AT CLASSROOM FIREWALL
SCALE: 1 1/2" = 1'-0"



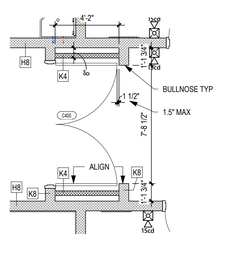
4 / A-504 ENLARGED FIRE DOOR PLAN - AREA 600
SCALE: 1/4" = 1'-0"



3 / A-504 ENLARGED FIRE DOOR PLAN - AREA 500
SCALE: 1/4" = 1'-0"



2 / A-504 ENLARGED FIRE DOOR PLAN - AREA 400
SCALE: 1/4" = 1'-0"



1 / A-504 ENLARGED SEC. DOOR PLAN - AREA 400
SCALE: 1/4" = 1'-0"

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ENERGY STAR PARTNER

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DETAILS-FIREWALL & EJ

A-504

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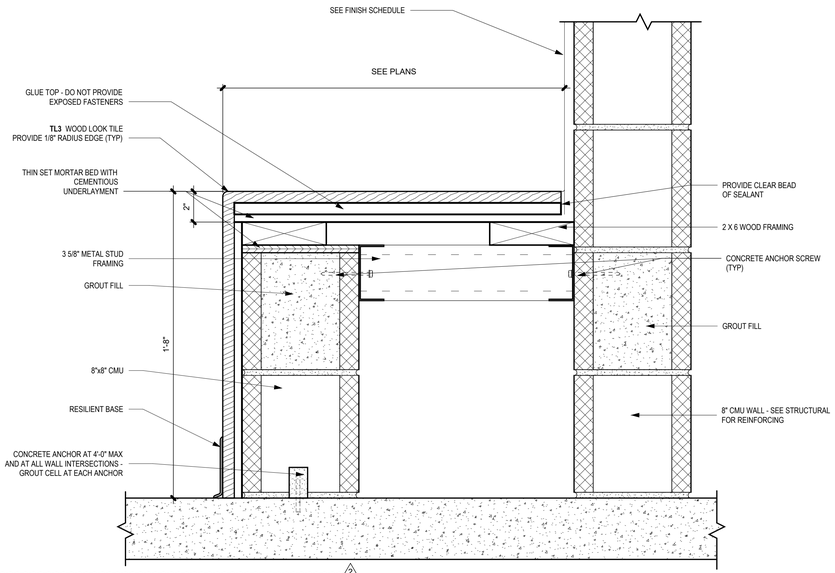
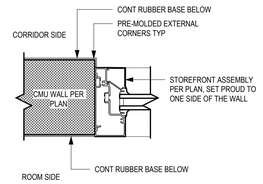
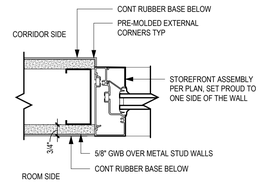
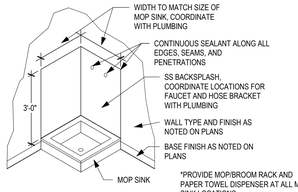


10 / A-511 **100 WING CORRIDOR BENCH SECTION**
SCALE: 3" = 1'-0"

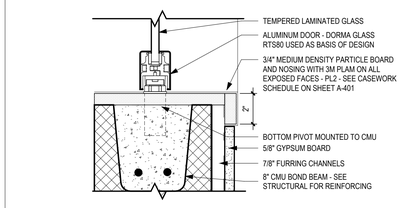




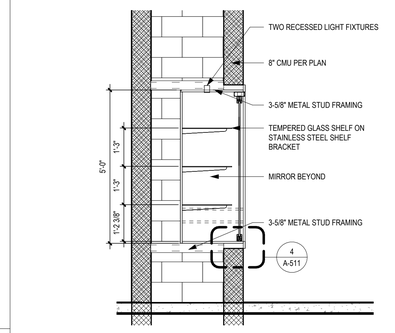
9 / A-511 **INT STOREFRONT JAMB DETAIL**
SCALE: 3" = 1'-0"



7 / A-511 **MOP SINK DETAIL**
SCALE: 3/8" = 1'-0"



4 / A-511 **TROPHY CASE SILL DETAIL**
SCALE: 3" = 1'-0"



3 / A-511 **TROPHY CASE SECTION**
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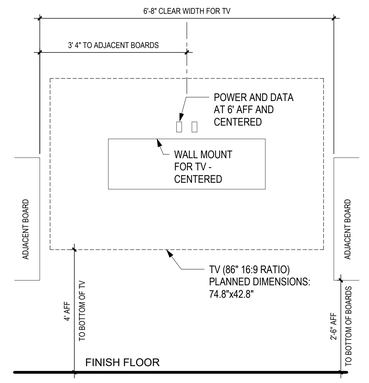
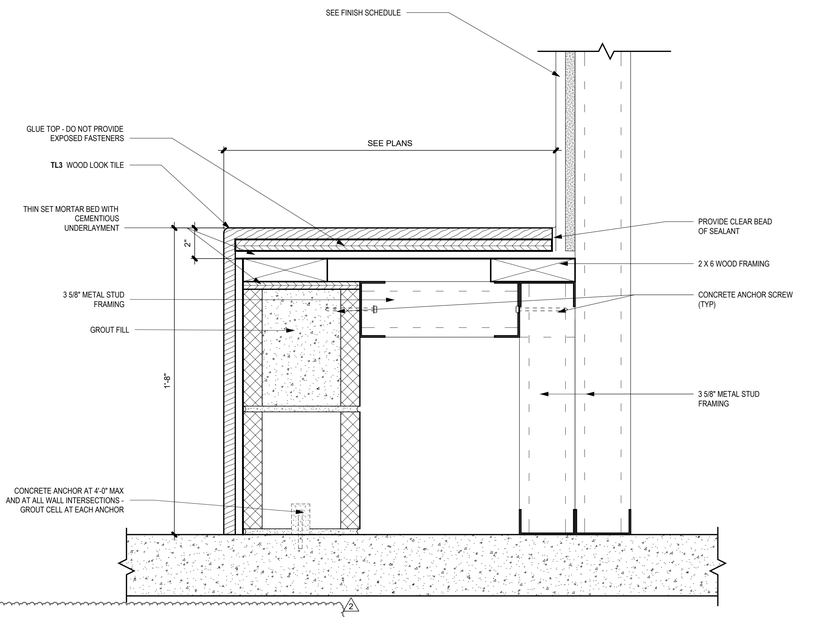
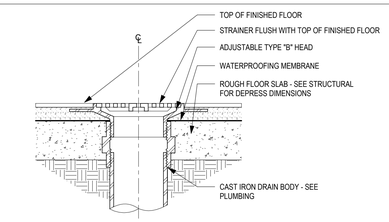


2 / A-511 **TEACHING WALL TV MOUNTING DETAIL**
SCALE: 1" = 1'-0"

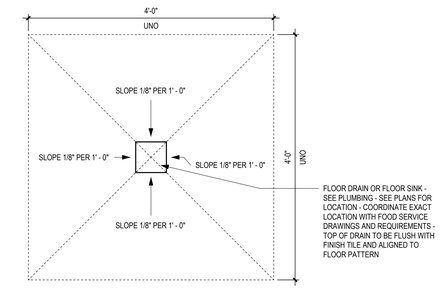


8 / A-511 **NICHE @ AUDITORIUM LOBBY**
SCALE: 3" = 1'-0"

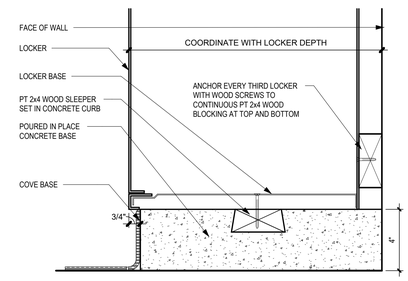


NOTE: SEE FLOOR DRAIN MFR REQUIREMENTS FOR DIMENSIONS AND TOLERANCES

6 / A-511 **FLOOR DRAIN SETTING DETAIL**
SCALE: 3" = 1'-0"



5 / A-511 **TYPICAL FLOOR SINK SLOPE AT KITCHEN**
SCALE: 1" = 1'-0"



1 / A-511 **LOCKER BASE SECTION**
SCALE: 3" = 1'-0"

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DETAILS-INTERIOR

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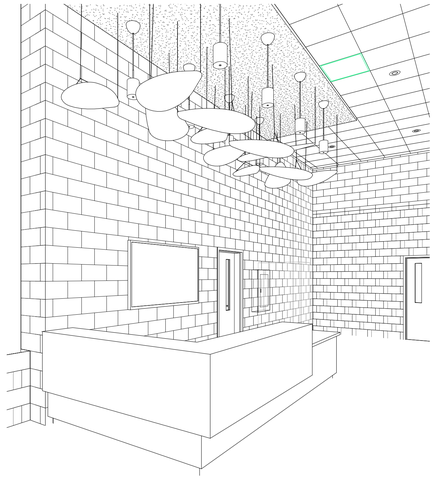
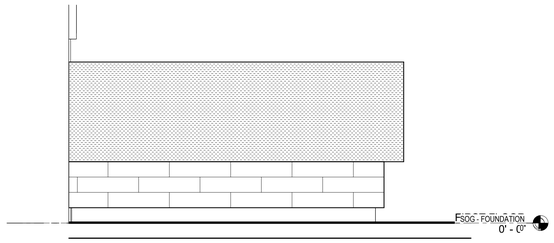
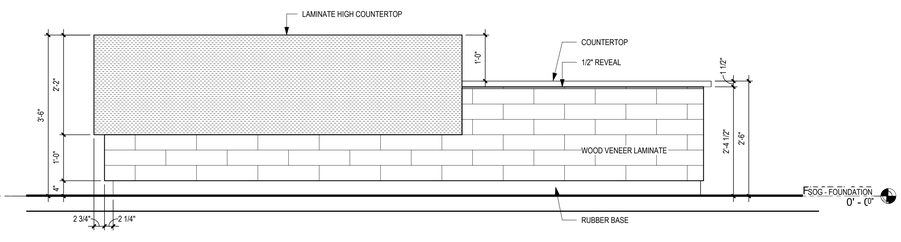


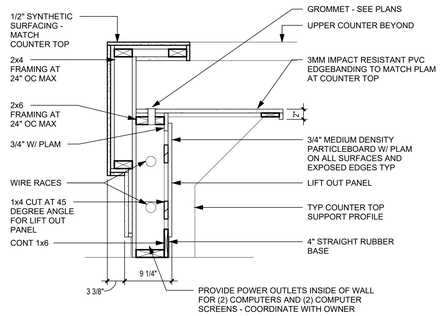
5 A-512 **RECEPTION DESK PERSPECTIVE**
SCALE:



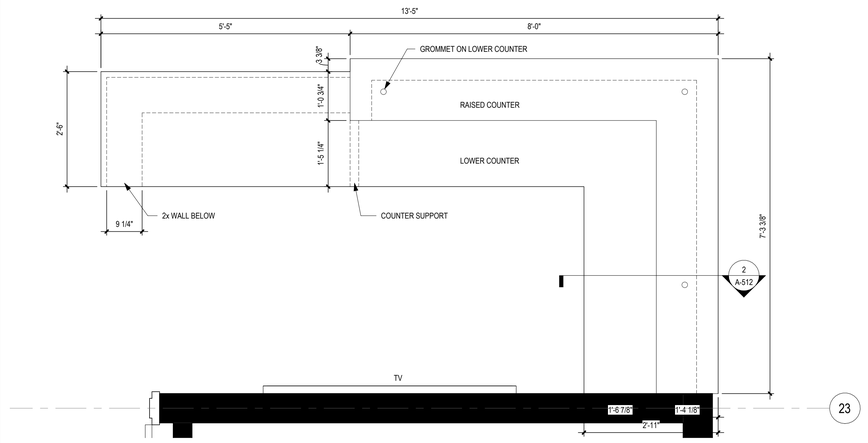
4 A-512 **SIDE RECEPTION DESK ELEVATION**
SCALE: 3/4" = 1'-0"



3 A-512 **FRONT RECEPTION DESK ELEVATION**
SCALE: 3/4" = 1'-0"



2 A-512 **RECEPTION DESK SECTION**
SCALE: 1" = 1'-0"



1 A-512 **RECEPTION DECK PLAN**
SCALE: 3/4" = 1'-0"

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DETAILS-RECEPTION DESK

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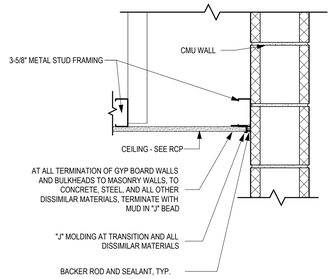
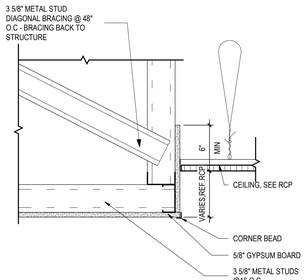
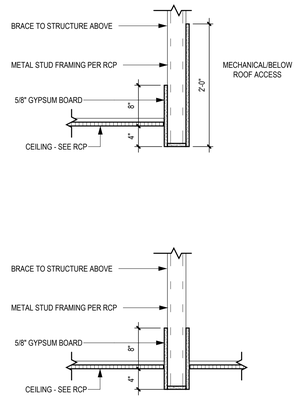


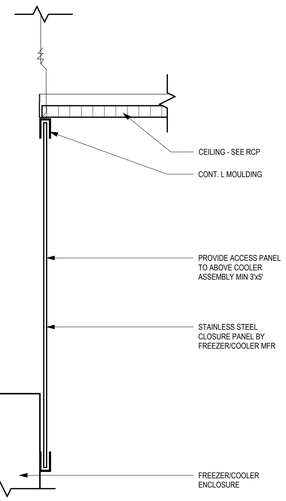
15 / A-513 GYP CEILING TO CMU WALL
SCALE: 1 1/2" = 1'-0"



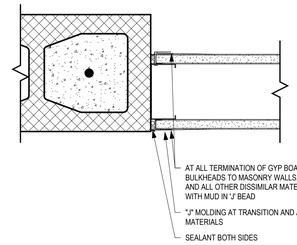
14 / A-513 GYP CEILING TO ACP TRANSITION
SCALE: 1 1/2" = 1'-0"



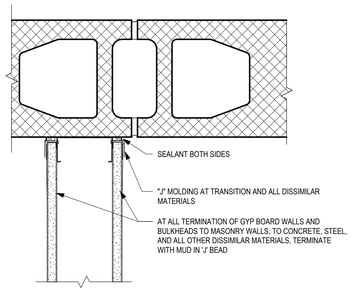
11 / A-513 TYP BULKHEAD DETAILS
SCALE: 1" = 1'-0"



8 / A-513 METAL CLOSURE ABOVE FREEZER & COOLER
SCALE: 3" = 1'-0"



5 / A-513 GYP BOARD/CMU WALL TRANSITION - FLUSH
SCALE: 3" = 1'-0"



4 / A-513 GYP BOARD/CMU WALL TRANSITION
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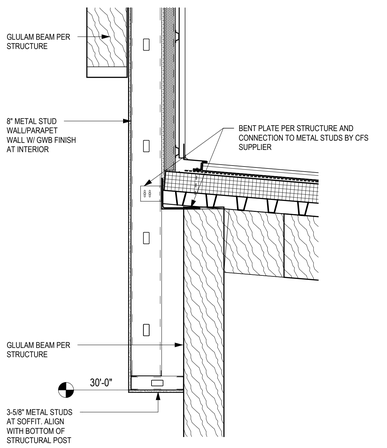
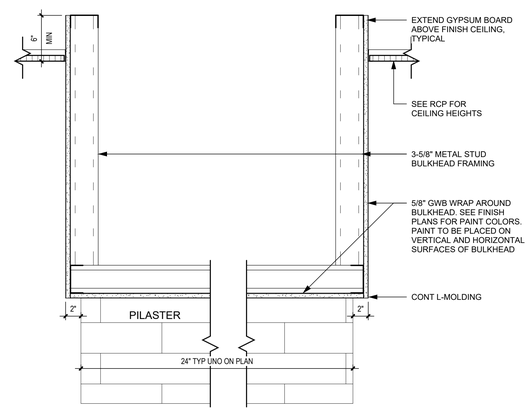
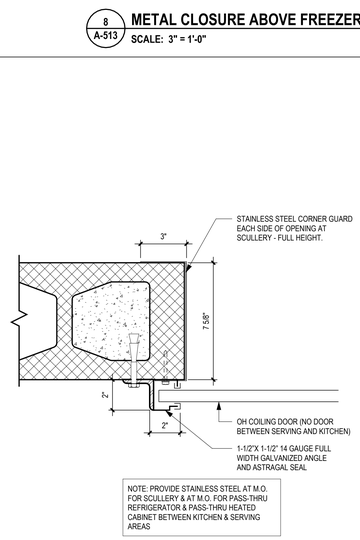


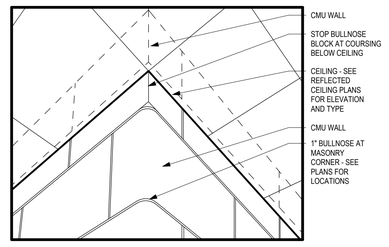
13 / A-513 AREA 600 COLLABORATION BULKHEAD SECTION
SCALE: 3/4" = 1'-0"



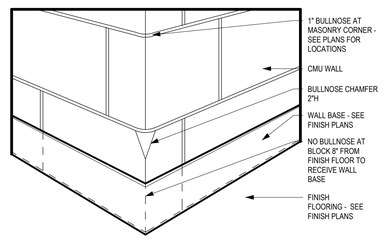
10 / A-513 CORRIDOR CEILING BULKHEAD AT PILASTERS
SCALE: 1 1/2" = 1'-0"



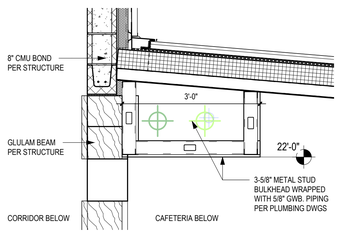
7 / A-513 OVERHEAD DOOR JAM DETAIL
SCALE: 3" = 1'-0"



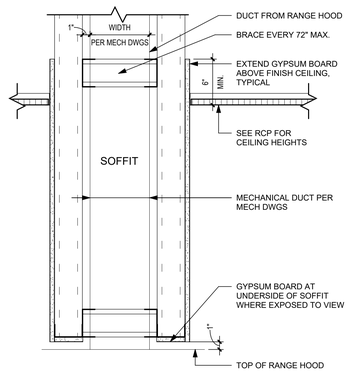
3 / A-513 1" BULLNOSE CEILING DETAIL
SCALE: 12" = 1'-0"



2 / A-513 1" BULLNOSE BASE DETAIL
SCALE: 12" = 1'-0"



12 / A-513 CAFETERIA BULKHEAD SECTION
SCALE: 3/4" = 1'-0"



9 / A-513 RANGE HOOD SECTION
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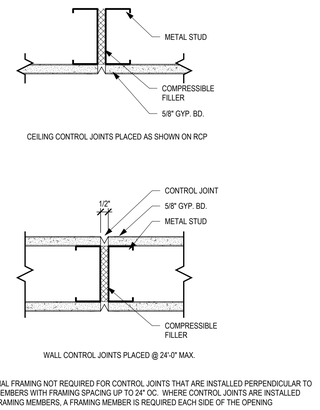
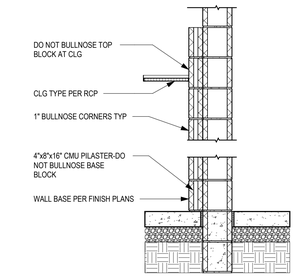


NOTE: ADDITIONAL FRAMING NOT REQUIRED FOR CONTROL JOINTS THAT ARE INSTALLED PERPENDICULAR TO THE FRAMING MEMBERS WITH FRAMING SPACING UP TO 24" OC. WHERE CONTROL JOINTS ARE INSTALLED PARALLEL TO FRAMING MEMBERS, A FRAMING MEMBER IS REQUIRED EACH SIDE OF THE OPENING

6 / A-513 CONTROL JOINT AT GYPSUM BOARD
SCALE: 3" = 1'-0"



1 / A-513 TYP 4" CORRIDOR MASONRY PILASTER
SCALE: 3/4" = 1'-0"

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DETAILS-WALL & CEILING

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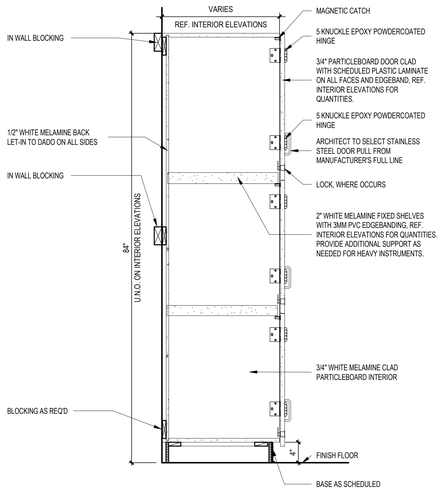
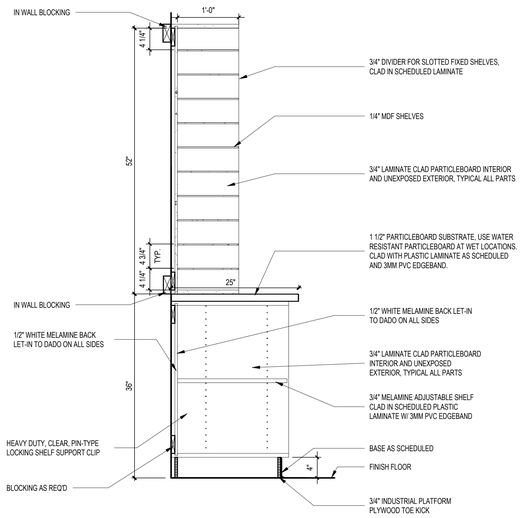
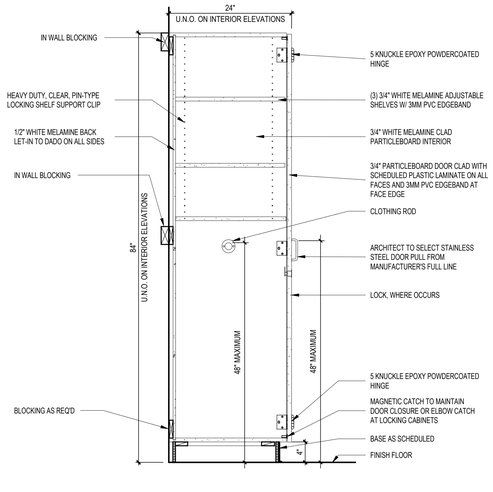


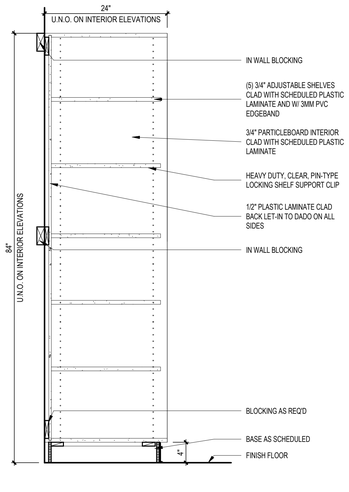
K5 / A-514 BAND INSTRUMENT STORAGE
SCALE: 1" = 1'-0"



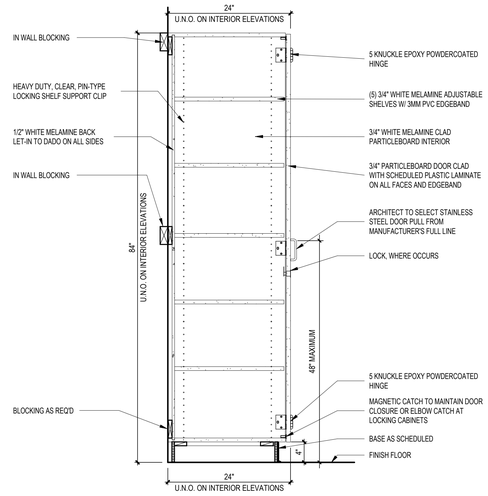
K4 / A-514 TALL CABINET - MAILBOXES
SCALE: 1" = 1'-0"



K3 / A-514 TALL CABINET - WARDROBE STORAGE
SCALE: 1" = 1'-0"



K2 / A-514 TALL CABINET - OPEN
SCALE: 1" = 1'-0"



K1 / A-514 TALL CABINET - DOOR
SCALE: 1" = 1'-0"

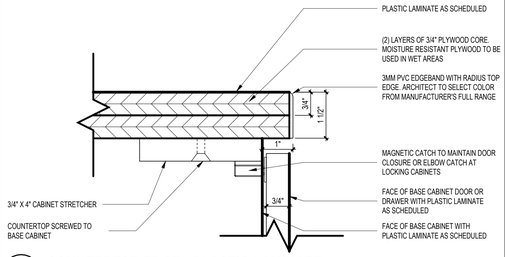
E3 / A-514 UPPER CABINET - OPEN CUBBY
SCALE: 1" = 1'-0"

E2 / A-514 UPPER CABINET - OPEN
SCALE: 1" = 1'-0"

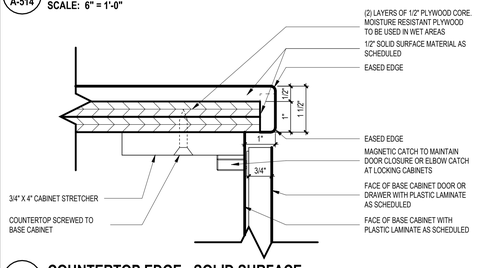
E1 / A-514 UPPER CABINET - DOOR
SCALE: 1" = 1'-0"

C2 / A-514 BASE CABINET - ADA SINK
SCALE: 1" = 1'-0"

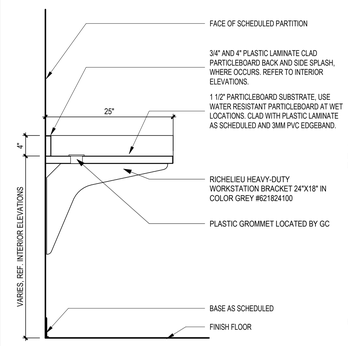
C1 / A-514 BASE CABINET - SINK
SCALE: 1" = 1'-0"



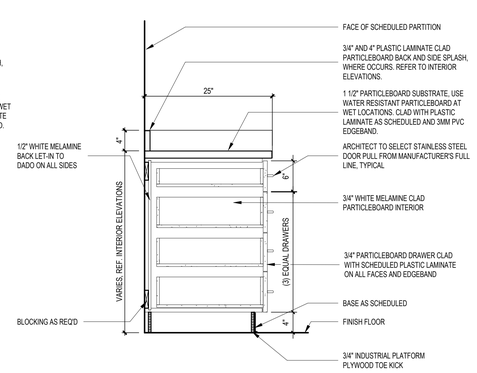
2 / A-514 COUNTERTOP EDGE - PLASTIC LAMINATE
SCALE: 6" = 1'-0"



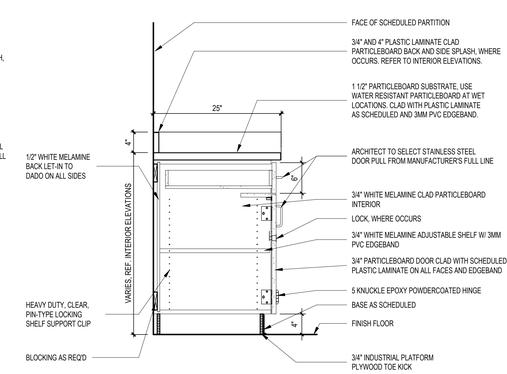
1 / A-514 COUNTERTOP EDGE - SOLID SURFACE
SCALE: 6" = 1'-0"



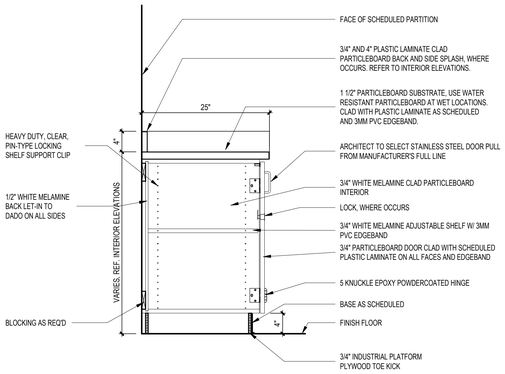
A4 / A-514 BASE CABINET - OPEN
SCALE: 1" = 1'-0"



A3 / A-514 BASE CABINET - DRAWERS
SCALE: 1" = 1'-0"



A2 / A-514 BASE CABINET - DOOR AND DRAWER
SCALE: 1" = 1'-0"



A1 / A-514 BASE CABINET - DOOR
SCALE: 1" = 1'-0"

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ENERGY STAR PARTNER

No.	Date	Description
2	12-13-24	CD REVISIONS

ISSUE DATE: 11/08/24
PROJECT #: 02208.000
DRAWN BY: Author
CHECKED BY: Checker

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DETAILS - MILLWORK

A-514

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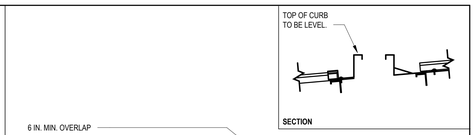
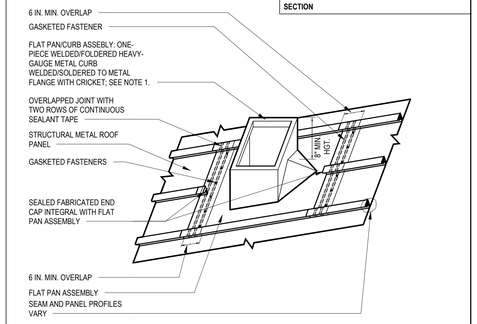
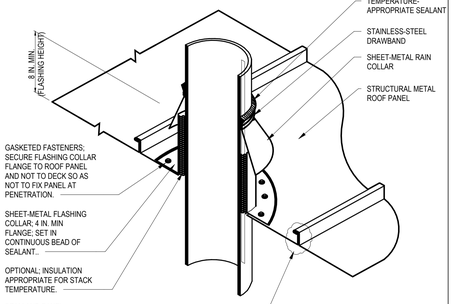




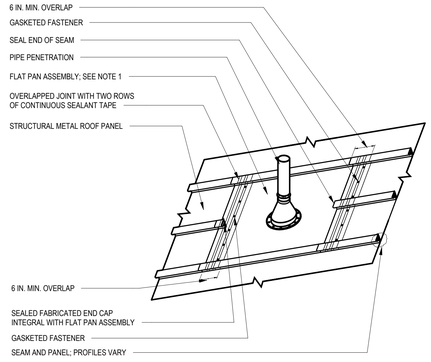
NOTE:
1. PROPER STRUCTURAL SUPPORT AND ATTACHMENT IS REQUIRED UNDER ALL SIDES OF THE RAISED CURB.
2. CURB-MOUNTED EQUIPMENT SHOULD BE WEATHERPROOF AND HAVE A WEATHERPROOF INTERLOCK OR SUFFICIENT OVERLAP WITH THE CURB.
3. PREMANUFACTURED CURBS ARE AVAILABLE.
4. THIS DETAIL FIXES THE RAISED CURB TO THE STRUCTURAL METAL PANELS.
5. INSULATION, VAPOR RETARDER AND THERMAL BLOCKS NOT SHOWN FOR CLARITY.
6. REFER TO THE INTRODUCTION OF THE NRCA CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.
7. REFER TO NCRA - SVM 19 DETAIL.

9 A-515 SVM PANEL DETAIL (PENETRATION AT RAISED CURB)
SCALE: 1" = 1'-0"



NOTE:
1. NRCA STRONGLY RECOMMENDS PENETRATIONS SHOULD NOT INTERFERE WITH PANEL SEAMS OR OCCUR AT TRANSVERSE SEAMS.
2. VENT STACKS AND OTHER PIPES SHOULD HAVE ADEQUATE CLEARANCE ON ALL SIDES FROM WALLS AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING AND PANEL DRAINAGE.
3. INSULATION, VAPOR RETARDER AND THERMAL BLOCKS FOR ROOF SYSTEM ARE NOT SHOWN FOR CLARITY.
4. REFER TO THE NRCA INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.
5. REFER TO NCRA - SVM 18 DETAIL.

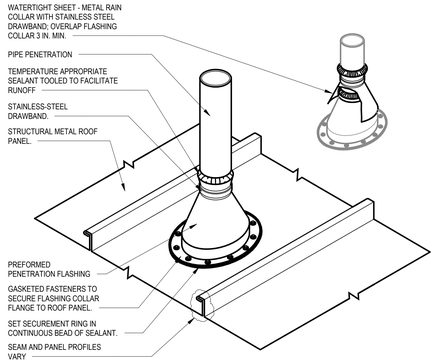
8 A-515 SVM PANEL DETAIL (PENETRATION AT STACK VENT)
SCALE: 1" = 1'-0"



PIPE PENETRATION FLASHING (SVM 17)

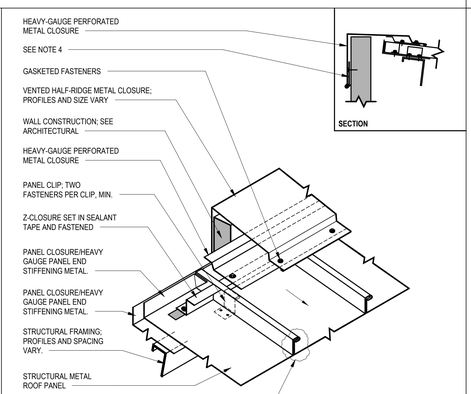
NOTE:
1. PROPER STRUCTURAL SUPPORT AND ATTACHMENT IS REQUIRED FOR FLAT PAN ASSEMBLY.
2. WHERE PENETRATIONS INTERSECT SEAMS, THIS DETAIL IS PREFERRED RATHER THAN INSTALLING PREFORMED BOOT THROUGH SEAM.
3. IN FIELD PANELS OVERLAP AT THE PENETRATION, ATTACHMNET OF THE DOWNSLOPE PANEL ALONG ITS UPSLOPE END MAY BE NECESSARY.
4. VENT STACKS AND OTHER PIPES SHOULD HAVE ADEQUATE CLEARANCE ON ALL SIDES FROM WALLS AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING AND PANEL DRAINAGE.
5. FOR HOT PIPES, SPECIFIC HIGH-TEMPERATURE BOOTS SHOULD BE USED.
6. INSULATION, VAPOR RETARDER AND THERMAL BLOCKS FOR ROOF SYSTEM ARE NOT SHOWN FOR CLARITY.
7. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.
8. REFER TO NCRA - SVM 17 DETAIL.

7 A-515 SVM PANEL DETAIL (PENETRATION AT PIPE)
SCALE: 1" = 1'-0"



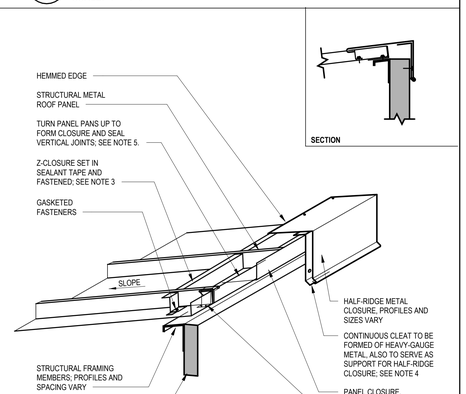
PIPE PENETRATION FLASHING (SVM 16)

NOTE:
1. NRCA RECOMMENDS PENETRATIONS SHOULD NOT INTERFERE WITH PANEL SEAMS OR OCCUR AT TRANSVERSE SEAMS. SEE DETAIL SVM-17.
2. IN FIELD PANELS OVERLAP AT THE PENETRATION, ATTACHMNET OF THE DOWNSLOPE PANEL ALONG ITS UPSLOPE END MAY BE NECESSARY
3. VENT STACKS AND OTHER PIPES SHOULD HAVE ADEQUATE CLEARANCE ON ALL SIDES FROM WALLS AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING AND PANEL DRAINAGE.
4. FOR HOT PIPES, SPECIFIC HIGH-TEMPERATURE BOOTS SHOULD BE USED.
5. INSULATION, VAPOR RETARDER AND THERMAL BLOCKS FOR ROOF SYSTEM ARE NOT SHOWN FOR CLARITY.
6. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.
7. REFER TO NCRA - SVM 16 DETAIL.



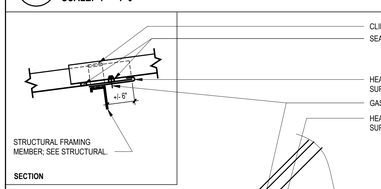
NOTE:
1. SPECIFIC FASTENING AND STRUCTURAL REQUIREMENTS ARE NOT INDICATED AS THEY VARY FROM SYSTEM TO SYSTEM DEPENDING ON PANEL MANUFACTURER'S REQUIREMENTS, WIND ZONE, BUILDING CODE AND WALL CONSTRUCTION.
2. INSULATION, VAPOR RETARDER AND THERMAL BLOCKS FOR ROOF SYSTEM ARE NOT SHOWN FOR CLARITY.
3. WHEN THE Z-CLOSURE IS FASTENED THROUGH THE STRUCTURAL FRAMING, THIS FIXES THE PANEL ALONG THE HALF-RIDGE.
4. REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING MANUAL; ARCHITECTURAL METAL FLASHING, CONDENSATION AND AIR LEAKAGE CONTROL, AND REROOFING FOR PERIMETER EDGE-METAL THICKNESS AND CLEAT RECOMMENDATIONS.
5. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.
6. REFER TO NCRA - SVM 08 DETAIL.

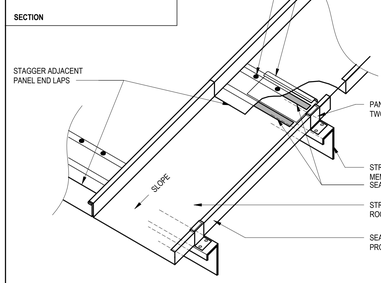
6 A-515 SVM PANEL DETAIL (HALF RIDGE CAP FLASHING - VENTED)
SCALE: 1" = 1'-0"



NOTE:
1. SPECIFIC FASTENING AND STRUCTURAL REQUIREMENTS ARE NOT INDICATED AS THEY VARY FROM SYSTEM TO SYSTEM DEPENDING ON PANEL MANUFACTURER'S REQUIREMENTS, WIND ZONE, BUILDING CODE AND WALL CONSTRUCTION.
2. INSULATION, VAPOR RETARDER AND THERMAL BLOCKS FOR ROOF SYSTEM ARE NOT SHOWN FOR CLARITY.
3. WHEN THE Z-CLOSURE IS FASTENED THROUGH THE STRUCTURAL FRAMING, THIS FIXES THE PANEL ALONG THE HALF-RIDGE.
4. REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING MANUAL; ARCHITECTURAL METAL FLASHING, CONDENSATION AND AIR LEAKAGE CONTROL, AND REROOFING FOR PERIMETER EDGE-METAL THICKNESS AND CLEAT RECOMMENDATIONS.
5. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.
6. REFER TO NCRA - SVM 07 DETAIL.

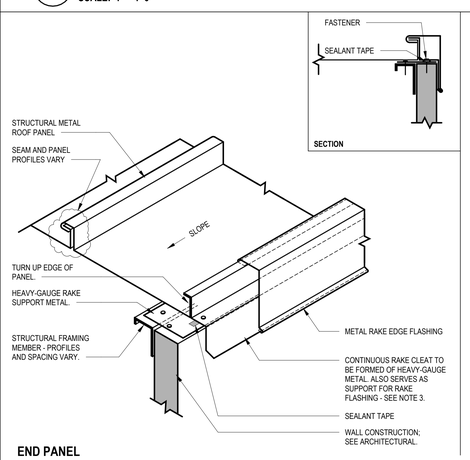
5 A-515 SVM PANEL DETAIL (HALF RIDGE CAP FLASHING)
SCALE: 1" = 1'-0"



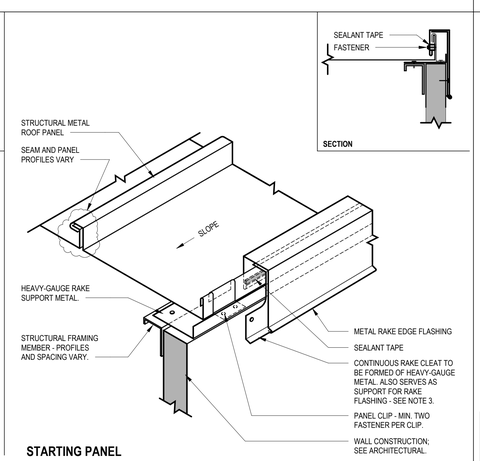


NOTES:
1. SPECIFIC FASTENING AND STRUCTURAL REQUIREMENTS ARE NOT INDICATED AS THEY VARY FROM SYSTEM TO SYSTEM DEPENDING ON PANEL MANUFACTURER'S REQUIREMENTS, WIND ZONE, BUILDING CODE AND WALL CONSTRUCTION.
2. HEAVY-GAUGE PANEL SUPPORT METAL PROFILE AND ATTACHMENT MAY VARY DEPENDING ON PANEL MANUFACTURER'S REQUIREMENTS.
3. INSULATION, VAPOR RETARDER AND THERMAL BLOCKS FOR ROOF SYSTEM ARE NOT SHOWN FOR CLARITY.
4. REFER TO NRCA SVM-20.

4 A-515 SVM PANEL DETAIL (AT END LAP)
SCALE: 1" = 1'-0"



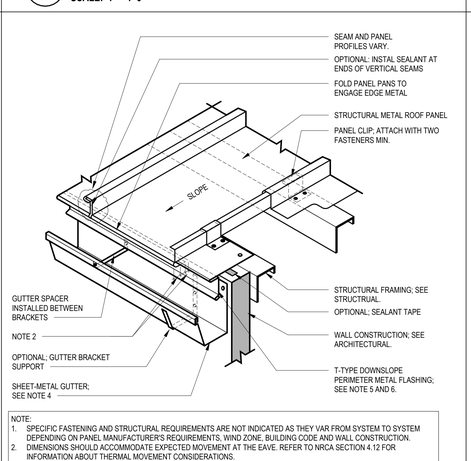
END PANEL



STARTING PANEL

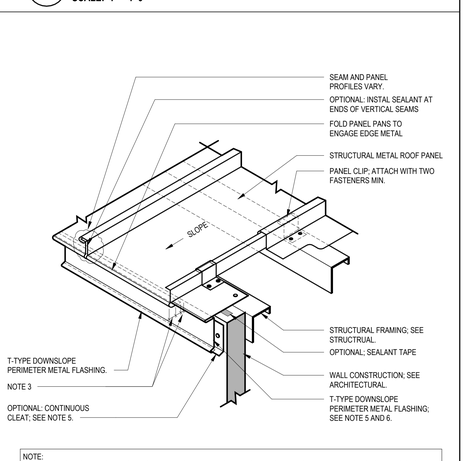
NOTE:
1. SPECIFIC FASTENING AND STRUCTURAL REQUIREMENTS ARE NOT INDICATED AS THEY VARY FROM SYSTEM TO SYSTEM DEPENDING ON PANEL MANUFACTURER'S REQUIREMENTS, WIND ZONE, BUILDING CODE AND WALL CONSTRUCTION.
2. INSULATION, VAPOR RETARDER AND THERMAL BLOCKS FOR ROOF SYSTEM ARE NOT SHOWN FOR CLARITY.
3. REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING MANUAL; ARCHITECTURAL METAL FLASHING, CONDENSATION AND AIR LEAKAGE CONTROL, AND REROOFING FOR PERIMETER EDGE-METAL THICKNESS AND CLEAT RECOMMENDATIONS.
4. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.
5. REFER TO NCRA - SVM 04 DETAIL.

3 A-515 SVM PANEL DETAIL (RAKE EDGE FLASHING)
SCALE: 1" = 1'-0"



NOTE:
1. SPECIFIC FASTENING AND STRUCTURAL REQUIREMENTS ARE NOT INDICATED AS THEY VAR FROM SYSTEM TO SYSTEM DEPENDING ON PANEL MANUFACTURER'S REQUIREMENTS. WIND ZONE, BUILDING CODE AND WALL CONSTRUCTION.
2. DIMENSIONS SHOULD ACCOMMODATE EXPECTED MOVEMENT AT THE EAVE. REFER TO NRCA SECTION 4.12 FOR INFORMATION ABOUT THERMAL MOVEMENT CONSIDERATIONS.
3. INSULATION, VAPOR RETARDER AND THERMAL BLOCKS FOR ROOF SYSTEM ARE NOT SHOWN FOR CLARITY.
4. REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING MANUAL; ARCHITECTURAL METAL FLASHING, CONDENSATION AND AIR LEAKAGE CONTROL, AND REROOFING FOR MORE INFORMATION ABOUT GUTTERS.
5. REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING MANUAL; ARCHITECTURAL METAL FLASHING, CONDENSATION AND AIR LEAKAGE CONTROL, AND REROOFING FOR PERIMETER EDGE-METAL THICKNESS AND CLEAT RECOMMENDATIONS.
6. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.
7. REFER TO NCRA - SVM 02 DETAIL.

2 A-515 SVM PANEL DETAIL (EAVE FLASHING WITH GUTTER)
SCALE: 1" = 1'-0"



NOTE:
1. SPECIFIC FASTENING AND STRUCTURAL REQUIREMENTS ARE NOT INDICATED AS THEY VAR FROM SYSTEM TO SYSTEM DEPENDING ON PANEL MANUFACTURER'S REQUIREMENTS. WIND ZONE, BUILDING CODE AND WALL CONSTRUCTION.
2. THIS DETAIL CAN ONLY BE USED WHEN FIXED POINT IS NOT AT THE EAVE.
3. DIMENSIONS SHOULD ACCOMMODATE EXPECTED MOVEMENT AT THE EAVE. REFER TO NRCA FOR INFORMATION ABOUT THERMAL MOVEMENT CONSIDERATIONS.
4. INSULATION, VAPOR RETARDER AND THERMAL BLOCKS FOR ROOF SYSTEM ARE NOT SHOWN FOR CLARITY.
5. REFER TO THE NRCA - INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.
6. REFER TO NCRA - SVM 01 DETAIL.

1 A-515 SVM PANEL DETAIL (EAVE FLASHING)
SCALE: 1" = 1'-0"

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No.	Date	Description

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PROJECT #: 02208.000
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DETAILS-SS METAL ROOF

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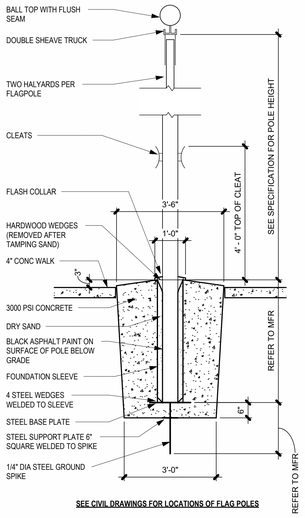
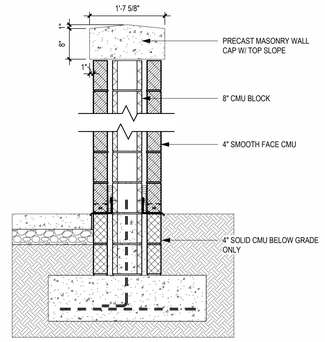
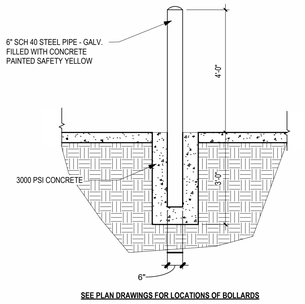


SEE CIVIL DRAWINGS FOR LOCATIONS OF FLAG POLES

8 / A-520 FLAG POLE DETAIL
SCALE: 1/2" = 1'-0"

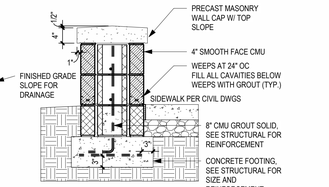


5 / A-520 DUMPSTER SCREENING WALL
SCALE: 3/4" = 1'-0"

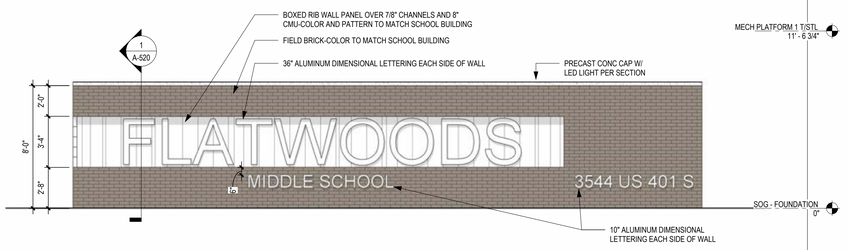


SEE PLAN DRAWINGS FOR LOCATIONS OF BOLLARDS

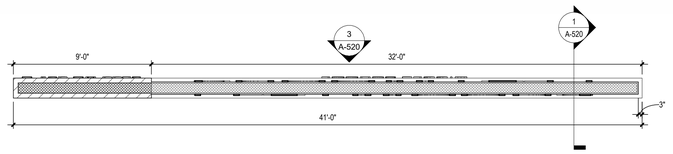
7 / A-520 SITE BOLLARD DETAIL
SCALE: 1/2" = 1'-0"



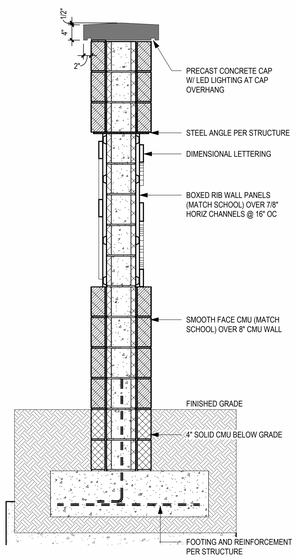
4 / A-520 COURTYARD LANDSCAPE WALL
SCALE: 3/4" = 1'-0"



3 / A-520 MONUMENT SIGN ELEV-NORTH (SOUTH MIRRORED)
SCALE: 1/4" = 1'-0"



2 / A-520 ENLARGED MONUMENT SIGN PLAN
SCALE: 1/4" = 1'-0"



1 / A-520 MONUMENTAL SIGN SECTION
SCALE: 3/4" = 1'-0"

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CONSTRUCTION DOCUMENTS

HARNETT COUNTY SCHOOLS

FLATWOODS MIDDLE SCHOOL

3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

ISSUE DATE: 11/08/24
PROJECT #: 02208.000
DRAWN BY: Author
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DETAILS-SITE

A-520

12/13/2024 8:55:18 AM Autodesk Docs://HCS Flatwoods MS/22208 HCS Flatwoods MS.rvt

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DOOR & FRAME SCHEDULE

NO.	DOOR SIZE			MAT	TYPE	FRAME		FIRE RATING	Hardware Set	Signage
	WIDTH	HEIGHT	THK			TYPE	MAT			
100	3'-4"	7'-2"	1 3/4"	WD	N	1	HM	0	01	B
100.1X	3'-0"	7'-2"	2"	FRP	HG	CW17	ALUM	0	02	-
100A	3'-4"	7'-2"	1 3/4"	WD	F	1	HM	0	03	A
101	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	01	B
101.1X	3'-0"	7'-2"	2"	FRP	HG	CW18	ALUM	0	02	-
101A	3'-4"	7'-2"	1 3/4"	WD	F	1	HM	0	03	A
102	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
102.1X	3'-0"	7'-2"	2"	FRP	HG	CW18	ALUM	0	02	-
102A	3'-4"	7'-2"	1 3/4"	WD	F	1	HM	0	03	A
103	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
103.1X	3'-0"	7'-2"	2"	FRP	HG	CW18	ALUM	0	02	-
103A	3'-4"	7'-2"	1 3/4"	WD	F	1	HM	0	03	A
104	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
104.1X	3'-0"	7'-2"	2"	FRP	HG	CW17	ALUM	0	02	-
104A	3'-4"	7'-2"	1 3/4"	WD	F	1	HM	0	03	A
105.1	6'-0"	7'-0"	1 3/4"	WD	M	2	HM	90	05	A
105.2	6'-0"	7'-0"	1 3/4"	WD	F(2)	2	HM	0	06	A
105.3	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	07	A
105.4X	6'-0"	7'-2"	1 3/4"	FRP	F(2)	2	ALUM	0	08	-
105.5X	3'-0"	7'-2"	1 3/4"	FRP	F	1	ALUM	0	09	-
105.6X	8'-0"	10'-0"	3"	STEEL SLAT	OH		STEEL	0	10	-
105.7	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	90	11	A
105.8	6'-0"	7'-2"	1 3/4"	WD	F	1	HM	90	12	A
105.9	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	90	13	A
105D	6'-0"	7'-2"	1 3/4"	WD	F	2	HM	90	58	A
106	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	20	14	A
107	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	20	14	A
108	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	20	14	A
110	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	44	C
111	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	44	C
200	3'-0"	7'-2"	2"	WD	FG	SF02	ALUM	0	16	B
201	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	17	A
202	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	17	B
203	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	17	B
204	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	18	A
205	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	17	B
206	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	17	B
207	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	17	B
208	3'-0"	7'-2"	2"	WD	FG	SF06	ALUM	0	17	B
209	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	17	A
209.1	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	07	A
210	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	15	C
211	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	15	C
212	3'-0"	7'-2"	2"	WD	FG	SF02	ALUM	0	19	A
212.1	3'-0"	7'-2"	2"	WD	FG	SF02	ALUM	0	20	A
213	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	17	B
213A	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	65	D
214	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	17	B
215	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	17	B
216.1	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	17	B
216.2	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	21	-
216A	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	22	D
217.1	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	17	A
217.2	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	23	-
218.1	3'-0"	7'-2"	2"	WD	FG	SF07		0	24	B
218.2	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	17	B
219	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	15	C
220	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	15	C
221	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	25	A
222	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	17	A
223	6'-0"	7'-2"	2"	WD	FG	SF04	ALUM	90	26	A
223.1X	3'-0"	7'-0"	1 3/4"	FRP	FG	1	ALUM	0	09	-
223.2X	3'-0"	7'-0"	1 3/4"	FRP	FG	1	ALUM	0	09	-
224	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	17	A
224.1	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	17	A
225	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	17	A
225.1	3'-0"	7'-2"	2"	WD	FG	SF07	ALUM	0	43	A
225.2	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	03	A
226	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	17	B
227	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	28	A
228	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	15	D
300.3	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	29	A
300.4	14'-0"	7'-4"	1 3/4"	ANOD. ALUM	OH-G		ANOD. ALUM	0	10	A
300.5	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	29	A
300.6	6'-0"	4'-6"	1 3/4"	STEEL SLAT	OH-S		STEEL	0	10	A
303.1	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	31	A
303.2	4'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	32	A
303A	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	33	A
303B	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	17	B
304.1	6'-0"	7'-2"	1 3/4"	WD	F(2)	2	HM	0	34	A
304.2X	6'-0"	7'-2"	1 3/4"	FRP	F(2)	2	HM	0	35	A
305	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	07	A
306	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	32	A
306A	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	36	D
307.1	6'-0"	7'-2"	1 3/4"	WD	N	2	HM	90	26	A
307.2	6'-0"	7'-2"	2"	WD	FG	SF14	HM	90	26	A
307.3	6'-0"	7'-2"	2"	WD	FG	SF15	HM	90	26	A
307.4	6'-0"	7'-2"	1 3/4"	WD	N	2	HM	90	26	A
307.5X	6'-0"	7'-2"	1 3/4"	FRP	F(2)	2	HM	0	61	-
307A	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	07	A
307B	6'-0"	7'-2"	1 3/4"	WD	F(2)	2	HM	0	37	A
308.1	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	29	A
308.2	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	38	A
309	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	17	B
309A	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	36	D
310	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	17	B
310A	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	36	D
311.1	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	29	A
311.2	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	38	A
313	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	39	A
315.1	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	07	A
315.2	6'-0"	4'-6"	1 3/4"	STEEL SLAT	OH-S		STEEL	0	10	-
316	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
316A	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	03	A
317	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
400	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	07	A
401	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
402	3'-0"	7'-2"	2"	WD	FG	SF10	ALUM	0	07	A
403	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
403.1X	3'-0"	7'-2"	2"	FRP	HG	CW22	ALUM	0	09	-
403A	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	41	D
404	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
405	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
406.1	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
406.2	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
406.3	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	03	A
406B	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	42	A
407.1	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
407.2	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
407.3	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	03	A
407B	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	42	A
408.1	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
408.2	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
408.3	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	03	A
409.1	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
409.2	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B

DOOR & FRAME SCHEDULE

NO.	DOOR SIZE			MAT	TYPE	FRAME		FIRE RATING	Hardware Set	Signage
	WIDTH	HEIGHT	THK			TYPE	MAT			
409.3	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	03	A
410	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	43	A
410A	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	15	C
410B	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	15	C
412	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	25	B
414	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	25	B
415	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
416	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
417	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
418	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
419	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
420	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
421	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
422	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
500	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
500.1X	3'-0"	7'-2"	2"	FRP	HG	CW22	ALUM	0	09	-
501	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
501.1X	3'-0"	7'-2"	2"	FRP	HG	CW25	ALUM	0	09	-
501A	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	41	D
502	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
503	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
504.1	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
504.2	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
504.3	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	03	A
504B	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	42	A
505.1	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
505.2	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
505.3	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	03	A
505B	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	42	A
506.1	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
506.2	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
506.3	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	03	A
507.1	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
507.2	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
507.3	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	03	A
508	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	43	A
510A	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	15	C
510B	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	15	C
511	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	39	A
512	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	17	B
514	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	17	B
515	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
516	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
517	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
518	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
519	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
520	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
521	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
522	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
600A	3'-0"	7'-2"	2"	WD	FG	SF06	ALUM	0	40	B
600A.1	10'-0"	14'-0"	7"		OH-FS		STEEL	0	10	-
600A.2	10'-0"	14'-0"	7"		OH-FS		STEEL	0	10	-
600G	6'-0"	7'-2"	2"	WD	FG	SF17	ALUM	90	06	-
601	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
601A	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	41	D
602	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
603	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
604	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
605.1	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
605.2	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
605.3	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	03	A
605B	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	42	A
606.1	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
606.2	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
606.3	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	03	A
606B	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	42	A
607.1	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
607.2	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
607.3	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	03	A
608.1	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
608.2	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	04	B
608.3	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	03	A
610	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	43	B
611	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	39	A
612A	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	44	C
612B	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	44	C
614A	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	17	B
614B	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	17	B
615	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
616	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
617	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
618	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
619	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
620	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
621	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
622	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	40	B
C100	6'-0"	7'-2"	2"	WD	FG	SF11	ALUM	90	27	-
C100.1X	3'-2"	7'-2"	2"	FRP	FG	CW05	ALUM	0	46	-
C100.2X	3'-2"	7'-2"	2"	FRP	FG	CW05	ALUM	0	46	-
C100X	3'-2"	7'-2"	2"	FRP	FG	CW05	ALUM	0	48	-
C102.1X	6'-2"	7'-2"	2"	FRP	HG(2)	CW14	ALUM	0	49	-
C103	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	50	A
C200.1X	3'-2"	7'-2"	2"	FRP	FG	CW01	ALUM	0	54	-
C200.2X	3'-2"	7'-2"	2"	FRP	FG	CW01	ALUM	0	54	-
C200.3X	3'-2"	7'-2"	2"	FRP	FG	CW01	ALUM	0	51	-
C200.4	3'-0"	7'-2"	2"	WD	FG	SF01	ALUM	0	45	-
C200.5	3'-0"	7'-2"	2"	WD	FG	SF01	ALUM	0	45	-
C200.6	3'-0"	7'-2"	2"	WD	FG	SF01	ALUM	0	45	-
C200.7	3'-0"	7'-2"	2"	WD	FG	SF01	ALUM	0	47	-
C200X	3'-2"	7'-2"	2"	FRP	FG	CW01	ALUM	0	54	-
C201	8'-0"	8'-0"	2"	WD	FG	SF05	ALUM	90	52	-
C201.1	8'-0"	8'-0"	2"	WD	FG	SF05	ALUM	90	52	-
C202	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	07	A
C203	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	07	-
C203.1	3'-0"	7'-2"	1 3/4"	WD	N	1	HM	0	25	-
C300	3'-0"	7'-2"	2"	WD	FG	SF12	ALUM	0	53	-
C300.1	3'-0"	7'-2"	2"	WD	FG	SF12	ALUM	0	53	-
C300.2	3'-0"	7'-2"	2"	WD	FG	SF12	ALUM	0	53	-
C301.1X	3'-2"	7'-2"	2"	FRP	FG	CW08	ALUM	0	54	-
C301.2X	3'-2"	7'-2"	2"	FRP	FG	CW08	ALUM	0	55	-
C301X	3'-2"	7'-2"	2"	FRP	FG	CW08	ALUM	0	54	-
C302X	4'-0"	7'-2"	1 3/4"	FRP	F	1	ALUM	--	66	A
C400	8'-0"	7'-2"	1 3/4"	WD	F(2)	2	HM	0	56	A
C400.1	8'-0"	7'-2"	1 3/4"	WD	F	2	HM	90	64	A
C400.2	6'-0"	7'-2"	2"	FRP	HG(2)	CW27	ALUM	0	49	-
C400.3	6'-0"	7'-0"	1 3/4"	WD	FG(2)	2	HM	0	57	-
C500	8'-0"	7'-2"	1 3/4"	WD	F	2	HM	90	56	A
C500.1X	6'-0"	7'-2"	2"	FRP	HG(2)	CW30	ALUM	0	49	-
C500.2X	6'-0"	7'-2"	2"	FRP	HG(2)	CW28	ALUM	0	49	-
C600B	3'-0"	7'-2"	2"	WD	FG	SF18	ALUM	0	17	A
C600C	3'-0"	7'-2"	2"	WD	FG	SF18	ALUM	0	17	B
C601	8'-0"	7'-0"	1 3/4"	WD	F(2)	3	HM	90	59	-
CW10	6'-0"	7'-2"	2"	FRP	HG(2)	CW10	ALUM	0	08	-
CW10	6'-0"	7'-2"	2"	FRP	HG(2)	CW10	ALUM	0	61	-
CW11	3'-4"	7'-4"		MASONRY OPENING	-			-		

DOOR & FRAME SCHEDULE

NO.	DOOR SIZE			MAT	TYPE	FRAME		FIRE RATING	Hardware Set	Signage
	WIDTH	HEIGHT	THK			TYPE	MAT			
CW26	6'-0"	7'-2"	2"	FRP	HG(2)	CW26	ALUM	0	49	A
M100	7'-0"	7'-2"	1 3/4"	WD	F(2)	2	HM	0	60	A
M100.1	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	90	68	-
M101	7'-0"	7'-2"	1 3/4"	WD	F(2)	2	HM	0	60	A
M200	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	07	A
M200.1	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	67	A
M300X	6'-0"	7'-2"	1 3/4"	FRP	F(2)	2	HM	0	61	A
M301X	6'-0"	7'-2"	1 3/4"	FRP	F(2)	2	HM	0	61	A
M302X	6'-0"	7'-2"	1 3/4"	FRP	F(2)	2	HM	0	61	A
M303	7'-0"	7'-2"	1 3/4"	WD	F(2)	2	HM	0	60	A
M400	7'-0"	7'-2"	1 3/4"	WD	F(2)	2	HM	0	60	A
M401	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	25	A
M402	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	25	A
M403	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	50	A
M500	7'-0"	7'-2"	1 3/4"	WD	F(2)	2	HM	0	60	A
M501	7'-0"	7'-2"	1 3/4"	WD	F(2)	2	HM	0	60	A
M502	7'-0"	7'-2"	1 3/4"	WD	F(2)	2	HM	0	60	A
M503	7'-0"	7'-2"	1 3/4"	WD	F(2)	2	HM	0	60	A
M504	7'-0"	7'-2"	1 3/4"	WD	F(2)	2	HM	0	60	A
M505	7'-0"	7'-2"	1 3/4"	WD	F(2)	2	HM	0	60	A
M506	7'-0"	7'-2"	1 3/4"	WD	F(2)	2	HM	0	60	A
M506	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	07	A
M507	7'-0"	7'-2"	1 3/4"	WD	F(2)	2	HM	0	60	A
M508	7'-0"	7'-2"	1 3/4"	WD	F(2)	2	HM	0	60	A
M508	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	07	A
M600	6'-0"	7'-2"	1 3/4"	WD	F(2)	2	HM	0	60	A
M601	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	62	A
M602	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	07	A
M603	3'-0"	7'-2"	1 3/4"	WD	F	1	HM	0	07	A

DOOR LOCKSET FUNCTION LEGEND

ENTRY DEADLOCK FUNCTION : DEADBOLT BY KEY OUTSIDE, THUMBTURN INSIDE.

BOTH SIDES LOCK FUNCTION : THE INSIDE LEVER IS UNLOCKED BY A KEY AND THE OUTSIDE LEVER IS UNLOCKED BY A KEY. CAN REMAIN UNLOCKED.

UTILITY FUNCTION : THE INSIDE LEVER IS ALWAYS OPERABLE, THE OUTSIDE LEVER IS ALWAYS LOCKED. ONE MUST ALWAYS HAVE A KEY TO OPEN THE DOOR FROM THE OUTSIDE.

OFFICE FUNCTION : THE INSIDE LEVER IS ALWAYS OPERABLE, THE OUTSIDE LEVER IS LOCKED BY DEPRESSING A BUTTON ON THE INSIDE LEVER. A KEY IS USED TO UNLOCK THE OUTSIDE LEVER FROM THE OUTSIDE WHEN LOCKED.

PRIVACY FUNCTION : THE OUTSIDE LEVER IS LOCKED BY USE OF A PUSH BUTTON ON THE INSIDE LEVER. THE OUTSIDE LEVER CAN BE UNLOCKED (NOT BY A KEY) BY THE USE OF SOME SIMPLE TOOL.

PASSAGE FUNCTION: THE INSIDE AND OUTSIDE LEVERS ARE FREE TO OPERATE AT ALL TIMES.

ABBREVIATIONS

AST	ASTRAGAL
CLSR	CLOSER
DIA	DIAMETER
FB	FLUSH BOLTS
KP	KICK PLATE
OHS	OVERHEAD STOP
SS	STAINLESS STEEL
WMS	WALL MOUNTED STOP
WS	WEATHER STRIPPING

GENERAL DOOR NOTES

1. PROVIDE AND INSTALL WEATHERSTRIPPING AT ALL EXTERIOR DOORS.
2. PROVIDE AND INSTALL SILENCERS AT DOORS.
3. ALL DOORS, IN STOREFRONT ASSEMBLIES, WITH READERS TO RECEIVE MULLION WIDTH READERS.

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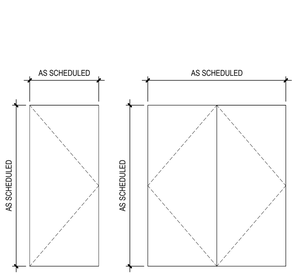

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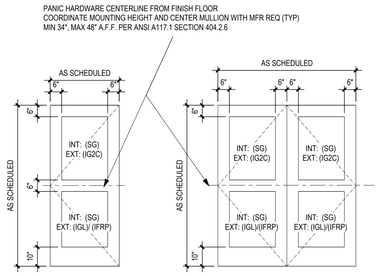

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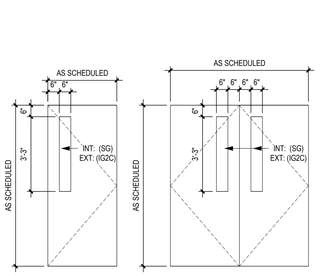

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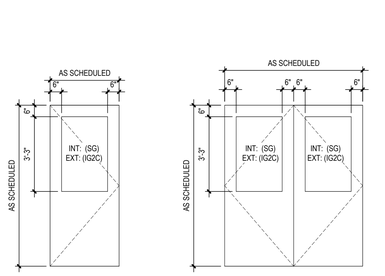
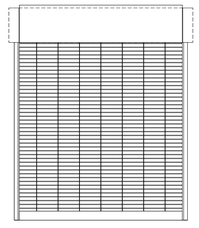
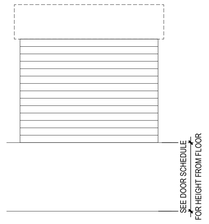


HG HG(2)



OH-G



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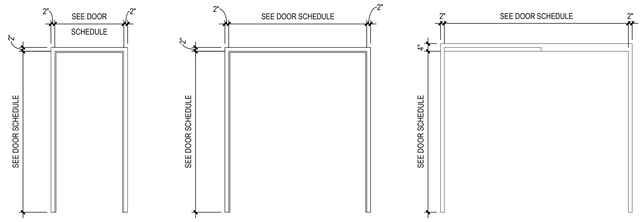
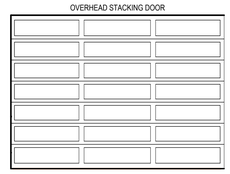


1 2 3

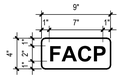
NOTE: ALL DOOR PANEL FRAMES TO BE WRAP AROUND TYP UNO



OH-FG

DOOR PANEL AND FRAME LEGEND
SCALE: 3/8" = 1'-0"

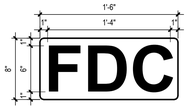
FIRE ALARM CONTROL PANEL SIGN / LABEL



THE FIRE ALARM CONTROL PANEL SIGN / LABEL WILL CONSIST OF 2" HIGH, 0.5" LETTER STROKE RED REFLECTIVE LETTERS ON A WHITE BACKGROUND, AND SHALL BE PERMANENTLY ATTACHED TO THE EXTERIOR OF THE DOOR OF THE ROOM CONTAINING THE FIRE ALARM CONTROL PANEL, AT NORMAL EYE LEVEL.

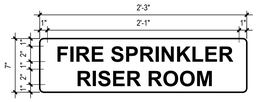
NOTE:
FIRE SPRINKLER AND FIRE ALARM CONTROL PANEL ROOMS WITH ACCESS FROM ONLY THE INTERIOR OF THE STRUCTURE MAY BE SIGNED / LABELED SO AS NOT TO DETRACT FROM THE INTERIOR DECOR, PROVIDING THE LETTERS ARE A MINIMUM OF 1" AND OF A CONTRASTING COLOR TO THE BACKGROUND, AS APPROVED BY THE FIRE MARSHAL.

FIRE PROTECTION CONNECTIONS SIGN



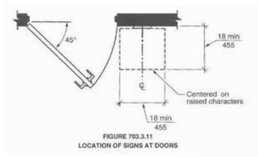
THE FIRE DEPARTMENT CONNECTION SIGN (FDC) WILL CONSIST OF 6" HIGH, 1" LETTER STROKE RED REFLECTIVE LETTERS ON A WHITE BACKGROUND, AND SHALL BE PERMANENTLY ATTACHED IN A VISIBLE LOCATION APPROVED BY THE FIRE MARSHAL.

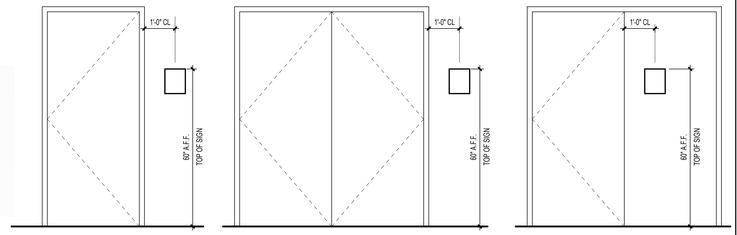
FIRE SPRINKLER RISER ROOM SIGN / LABEL



THE SPRINKLER ROOM SIGN / LABEL WILL CONSIST OF 2" HIGH, 0.5" LETTER STROKE RED REFLECTIVE LETTERS ON A WHITE BACKGROUND, AND SHALL BE PERMANENTLY ATTACHED TO THE EXTERIOR OF THE DOOR OF THE SPRINKLER RISER ROOM, AT NORMAL EYE LEVEL.

FIRE PROTECTION SIGN TEMPLATES
4 / A-602
SCALE: 1 1/2" = 1'-0"





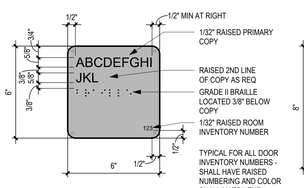
SIGNAGE NOTES:

1. ROOM SIGNAGE TO BE LOCATED ON THE WALL ADJACENT TO THE STRIKE SIDE OF THE DOOR. FOR DOUBLE ACTION DOORS, LOCATE SIGNAGE ON THE WALL ADJACENT TO THE RIGHT DOOR PANEL.
2. MOUNTING LOCATION AND HEIGHT SHOWN IS TYPICAL.
3. VERIFY NON-TYPICAL SIGN LOCATIONS WITH THE ARCHITECT PRIOR TO INSTALLATION.
4. AT DOORS WITH SIDELIGHTS ON THE STRIKE SIDE OF JAMB, USE DOUBLE SIDED TAPE ONLY. PROVIDE A BLANK SOLID SIGN OF SAME COLOR AND SIZE ON OPPOSITE SIDE OF GLASS.
5. COORDINATE ROOM NAME, NUMBER AND DOOR INVENTORY NUMBER WITH USER.
6. PROVIDE SIGNAGE AT ALL DOOR LOCATIONS. ROOMS WITH MORE THAN ONE ACCESS POINT SHALL REQUIRE SIGNAGE AT EACH LOCATION.
7. TYPICAL FOR ALL DOOR INVENTORY NUMBERS - SHALL HAVE RAISED NUMBERING AND BE WHITE IN COLOR

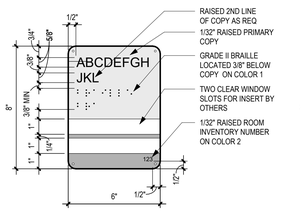
ADA SIGNAGE REQUIREMENTS
3 / A-602
SCALE: 3" = 1'-0"

SIGN FIELD COLOR TO BE SELECTED BY ARCHITECT

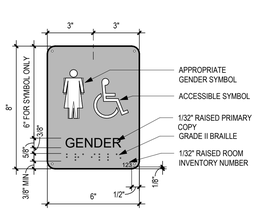
SIGN TYPE A



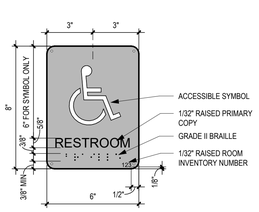
SIGN TYPE B



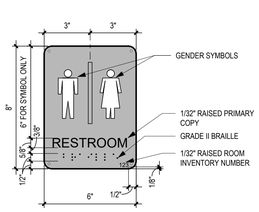
SIGN TYPE C



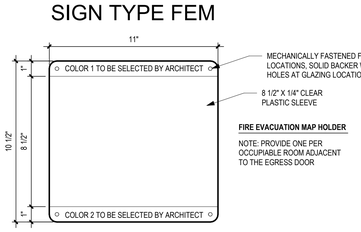
SIGN TYPE D



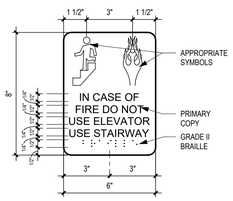
SIGN TYPE D1



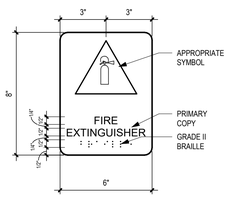
SIGN TYPE FEM



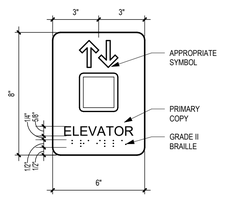
SIGN TYPE E



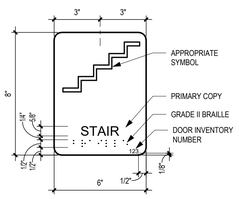
SIGN TYPE F



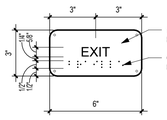
SIGN TYPE G



SIGN TYPE H

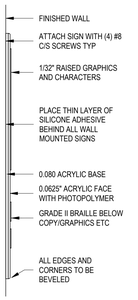


SIGN TYPE I



NCBC 1013.4 TACTILE EXIT SIGNS.
A TACTILE EXIT SIGN STATING "EXIT" AND COMPLYING WITH ICC A117.1 SHALL BE PROVIDED ADJACENT TO EACH DOOR TO AN AREA OF REFUGE, AN EXTERIOR AREA OF ASSISTED RESCUE, AN EXIT STAIRWAY, AN EXIT RAMP, AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE.

SIGNAGE ELEVATIONS
2 / A-602
SCALE: 3" = 1'-0"



SIGNAGE DETAIL AT WALL
1 / A-602
SCALE: 6" = 1'-0"

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ENERGY STAR PARTNER

No.	Date	Description

ISSUE DATE: 11/08/24
PROJECT #: 02208.000
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CHECKED BY: Checker

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DOOR & SIGNAGE DETAILS

A-602

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GLAZING FRAME LEGEND

SYMBOL	DESCRIPTION
CW	CURTAIN WALL
SF	4 1/2" STOREFRONT
IFRP	INSULATED FRP PANEL - COLOR TO MATCH DOOR

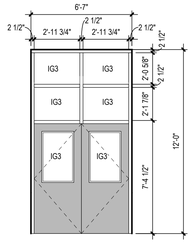
GENERAL NOTES:

1. EXTERIOR CURTAIN WALL AND STOREFRONT SHALL HAVE A THERMAL BREAK TYPE FRAME. INTERIOR STOREFRONT NOT REQUIRED TO HAVE A THERMAL BREAK FRAME.
2. FIELD VERIFY **ALL** OPENING DIMENSIONS PRIOR TO MANUFACTURING CURTAIN WALLS, STOREFRONT, AND HOLLOW METAL FRAMES.
3. GLAZING COLOR TO BE SELECTED BY ARCHITECT FROM FULL RANGE OF MANUFACTURERS COLORS.
4. SHADES TO BE INSTALLED AT ALL INTERIOR CLASSROOMS AND OFFICE GLAZING PANELS LOCATED AT 7'-4" AND LOWER WHERE INSTALLED ADJACENT TO ENTRY DOORS. GLAZING PANELS WITHIN DOOR PANELS SHALL NOT RECEIVE SHADES. DO NOT PROVIDE SHADES AT DOORS OR CURTAIN WALLS. SHADES TO BE INSTALLED WHERE THERE IS A CHANGE IN GLAZING TYPE AT EXTERIOR WINDOWS.

= SHADE HATCH LOCATION

GLAZING SCHEDULE

TYPE	DESCRIPTION
SG SGL SGT	SAFETY GLASS, 1/4" CLEAR TEMPERED SAFETY GLASS, 1/4" CLEAR TEMPERED, LAMINATED SAFETY GLASS, 1/4" CLEAR TEMPERED, TRANSLUCENT
FRG	FIRE PROTECTION RATED GLAZING
FRGT	FIRE PROTECTION RATED GLAZING , TRANSLUCENT
IG1 IG1L	DOUBLE PANE INSULATED GLASS UNITS - TEMPERED , CLEAR (NORTH FACING GLAZING) DOUBLE PANE INSULATED GLASS UNITS - TEMPERED , CLEAR, LAMINATED (NORTH FACING GLAZING)
IG2	DOUBLE PANE INSULATED TRANSLUCENT GLASS UNITS, (SOUTH, EAST & WEST FACING GLAZING)
IG3 IG3L	DOUBLE PANE INSULATED GLASS UNITS - TEMPERED, TINTED (SOUTH, EAST & WEST FACING GLAZING) DOUBLE PANE INSULATED GLASS UNITS - TEMPERED, TINTED, LAMINATED (SOUTH, EAST & WEST FACING GLAZING)
IG4	DOUBLE PANE INSULATED GLASS UNITS - TINTED TEMPERED SPANDREL
IFRP	INSULATED FIBER - REINFORCED PANEL



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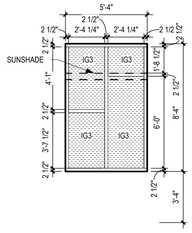

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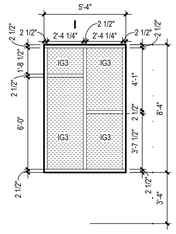

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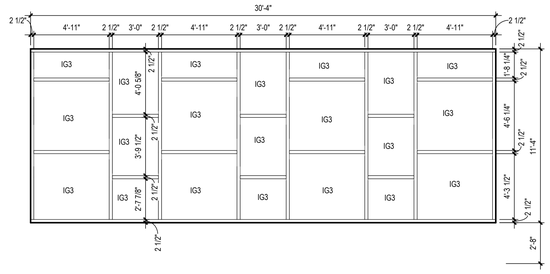

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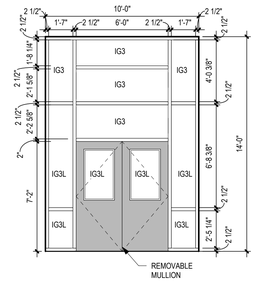

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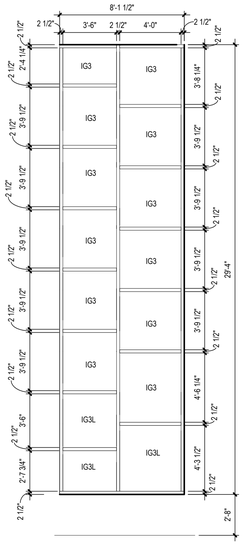

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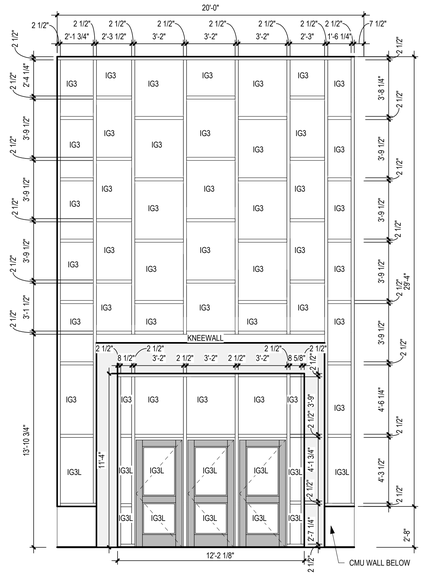

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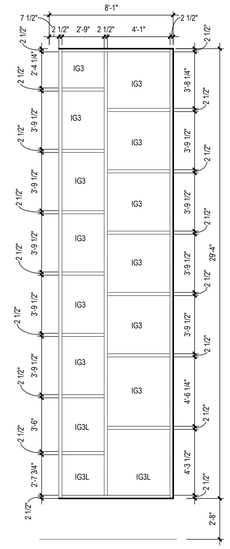

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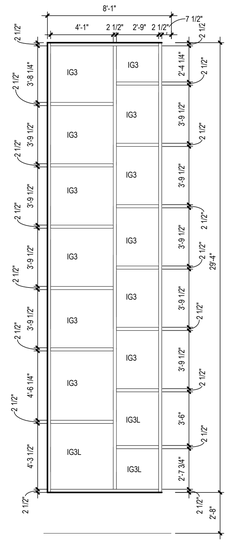

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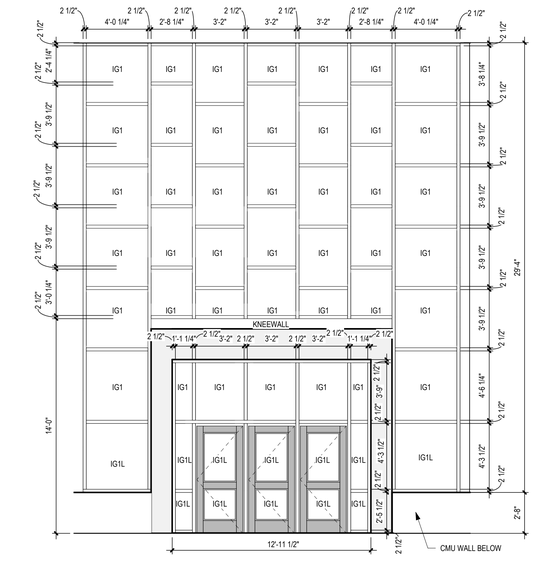

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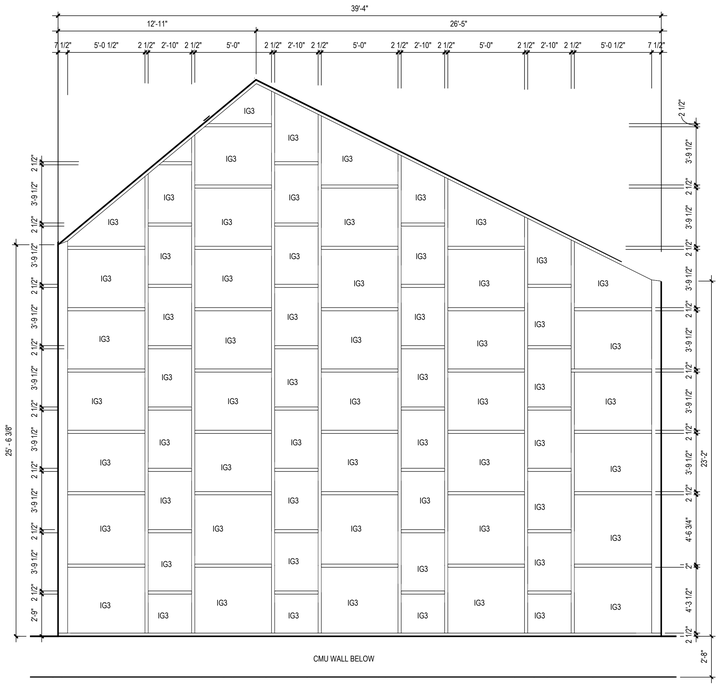

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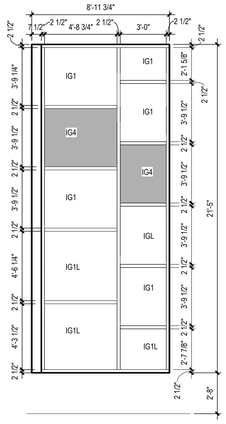

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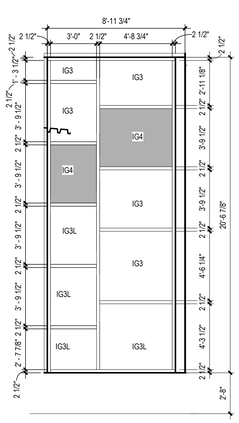

CW02

CW01

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CONSTRUCTION DOCUMENTS

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FLATWOODS MIDDLE SCHOOL

3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

ISSUE DATE: 11/08/24
PROJECT #: 02208.000
DRAWN BY: Author
CHECKED BY: Checker

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CURTAIN WALL ELEVATIONS

A-611

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GLAZING FRAME LEGEND

SYMBOL	DESCRIPTION
CW	CURTAIN WALL
SF	4 1/2" STOREFRONT
IFRP	INSULATED FRP PANEL - COLOR TO MATCH DOOR

GENERAL NOTES:

1. EXTERIOR CURTAIN WALL AND STOREFRONT SHALL HAVE A THERMAL BREAK TYPE FRAME. INTERIOR STOREFRONT NOT REQUIRED TO HAVE A THERMAL BREAK FRAME.
2. FIELD VERIFY **ALL** OPENING DIMENSIONS PRIOR TO MANUFACTURING CURTAIN WALLS, STOREFRONT, AND HOLLOW METAL FRAMES.
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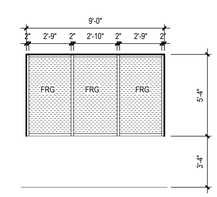

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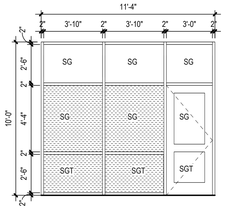

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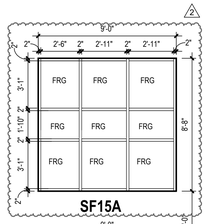

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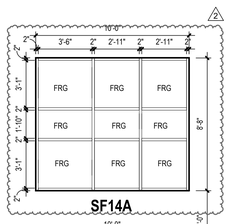

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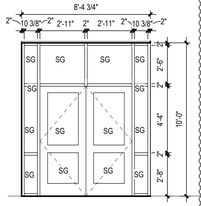

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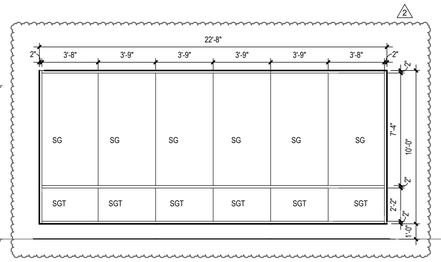

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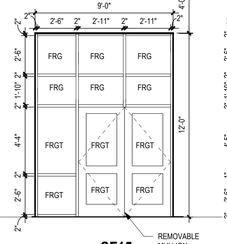

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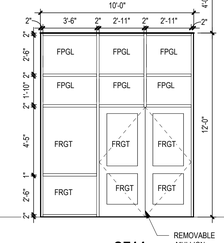

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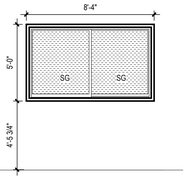

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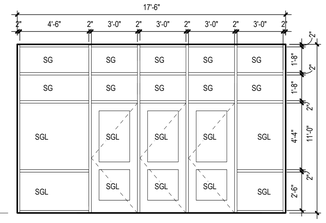

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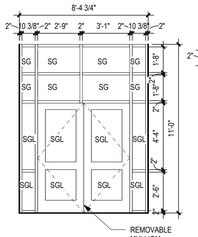

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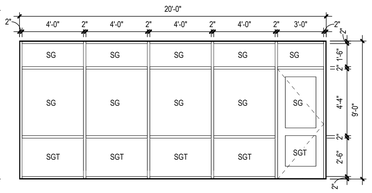

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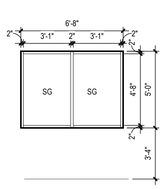

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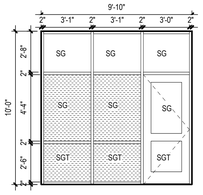

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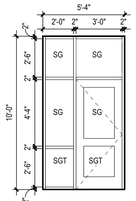

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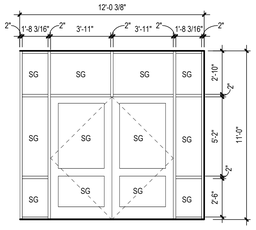

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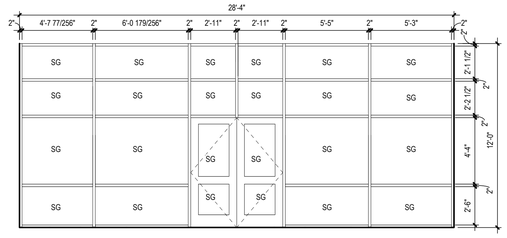

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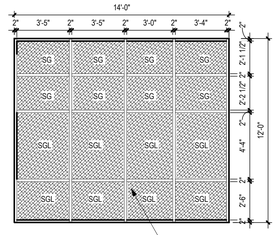

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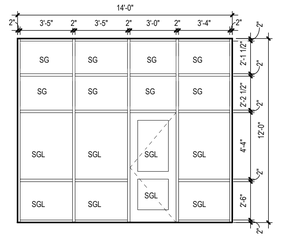

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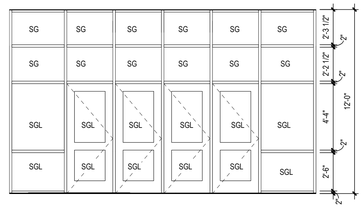

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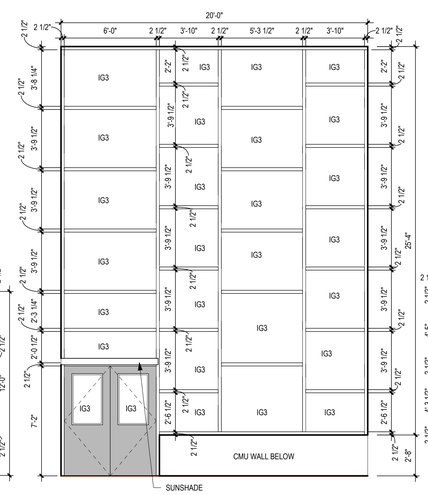

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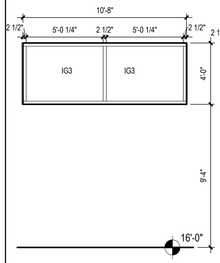

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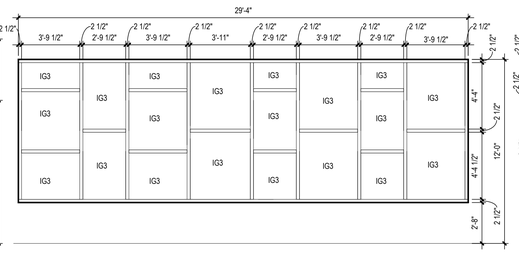

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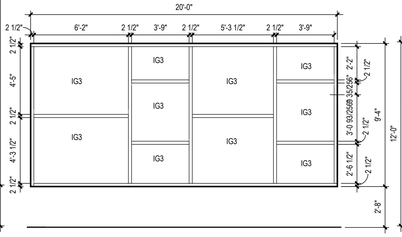

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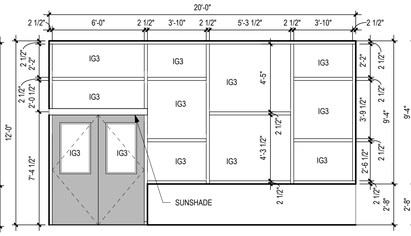

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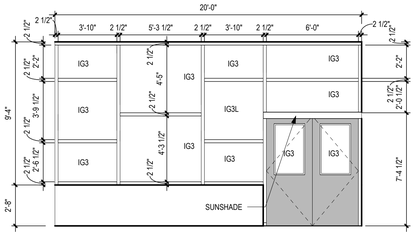

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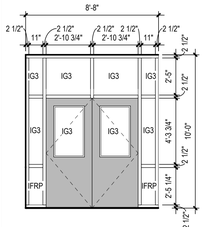

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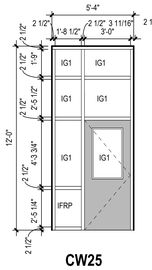

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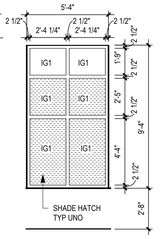

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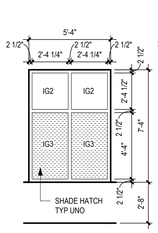

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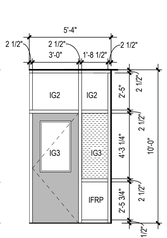

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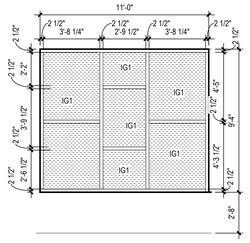

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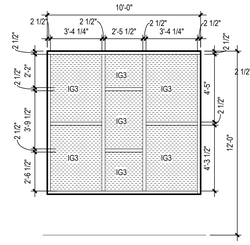

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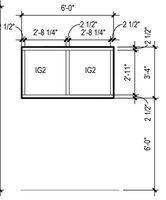

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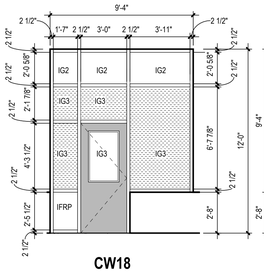

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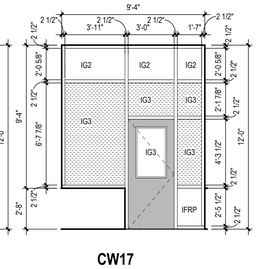

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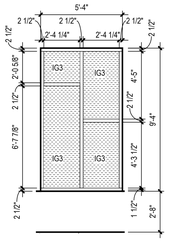

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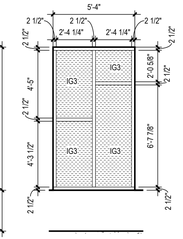

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3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description
2	12-13-24	CD REVISIONS

ISSUE DATE: 11/08/24
PROJECT #: 02208.000
DRAWN BY: Author
CHECKED BY: Checker

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CURTAIN WALL ELEVATIONS

A-612

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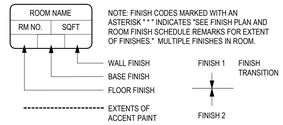
INTERIOR FINISH LEGEND

MARK	MATERIAL	MANUFACTURER	BASIS OF DESIGN	SIZE	NOTES
03 - CONCRETE					
03 30 00 - CAST-IN-PLACE CONCRETE					
SC1	SEALED CONCRETE				
SC2	SEALED CONCRETE		STAINED BLACK		STAINED BLACK TO MATCH STAGE FLOORING
06 - WOODS, PLASTICS, AND COMPOSITES					
06 40 23 - PLASTIC LAMINATES					
PL1	PLASTIC LAMINATE	WILSONART	PASADENA OAK 7986-38	-	BASE AND UPPER CABINETS
06 40 23 - WOOD TRIM					
WDB1	WOOD BASE		WHITE OAK STAINED TO MATCH PL1; TOP COAT TO HAVE A CLASS A RATING		
06 42 16 - WOOD VENEER PANELING					
WD2	WOOD VENEER PANELS		MATCH FINISH TO PL1	REF TO INTERIOR ELEVATIONS	
06 83 16 - FIBERGLASS REINFORCED PANELING					
FRP1	FIBERGLASS REINFORCED PANELS	MARLITE	COLOR WHITE ; PEBBLE FINISH		INSTALLED TO 48" AFF WITH EPOXY PAINT ABOVE, U.N.O.
07- THERMAL AND MOISTURE PROTECTION					
07 42 13 -METAL COMPOSITE MATERIAL WALL PANELS					
CMP4	COMPOSITE METAL PANELS	ARCONIC	OYSTER WHITE	REFER TO INTERIOR ELEVATIONS	
08 - OPENINGS					
08 14 16 - FLUSH WOOD DOORS					
WD2	WOOD DOORS	VT INDUSTRIES	WHITE OAK, WHEAT WH 18		
08 87 00 - WINDOW FILM					
WF-1	WINDOW FILM	DESIGNTEX	CUSTOM GRAPHIC; ARCHITECT TO PROVIDE GRAPHIC DURING CA.		REF TO INTERIOR ELEVATIONS
09 - FINISHES					
09 30 00 - TILING					
QT1	TILING	DALTILE	QUARRY TILE 6"X 6" ; ARID GRAY	6" X 6"	GROUT: MAPEI EPOXY GROUT; KERAPOXY IEG CQ COLOR TBD
QTB1	TILING	DALTILE	QUARRY TILE BASE Q1665 ;ARID GRAY	6" X 6",	GROUT: MAPEI EPOXY GROUT; KERAPOXY IEG CQ COLOR TBD
TL1	TILING	MOSIAC TILE CO.	COVE TERRA 15TERAASH	24" X 48"	GROUT: MAPEI EPOXY GROUT; KERAPOXY IEG CQ COLOR TBD; FIELD WALL TILE
TL2	TILING	TILEBAR	MONET WILD ATELIER GREEN	24" X 48"	GROUT: MAPEI EPOXY GROUT; KERAPOXY IEG CQ COLOR TBD; ACCENT TILE
TL3	TILING	FLORIDA TILE	BELLA NOVA	8" X 48"	GROUT: MAPEI EPOXY GROUT; KERAPOXY IEG CQ COLOR TBD, MONUMENTAL STAIRS AND BENCHING
09 51 13 - ACOUSTICAL PANEL CEILINGS					
APC1	ACOUSTICAL PANEL CEILING	ARMSTRONG	ULTIMA ,TEGULAR WITH WHITE GRID	24" X 24"	MINIMUM NRC 0.80
APC2	ACOUSTICAL PANEL CEILING	ARMSTRONG	ULTIMA HEALTH ZONE, TEGULAR WHITE TILE WITH WHITE GRID	24" X 24"	KITCHEN LOCATIONS
APC3	ACOUSTICAL PANEL CEILING	ARMSTRONG	BACKSTAGE MOIR, BLACK SQUARE WITH BLACK GRID	24" X 24",	REF. TO RCP
APC5	ACOUSTICAL PANEL CEILING	AVL SYSTEMS	DISORB CONVEX DIFFUSER ABSORBER; TYPE W STANDARD WHITE	48" X 48"	REFER TO RCP; TYPICAL IN MUSIC ROOMS
APC6	ACOUSTICAL PANEL CEILING	AVL SYSTEMS	ACOUSTECH WALL AND CEILING PANELS 2" PANEL BEVEL EDGE; BLACK FABRIC	REFER TO INTERIOR ELEVATIONS	
APC7	ACOUSTICAL PANEL CEILING	AVL SYSTEMS	TONEWOOD NATURAL WITH THEATERBLACK BACKING ,STAINED TO FINISH PL1	REFER TO INTERIOR ELEVATIONS	
09 54 26 - SUSPENDED WOOD CEILINGS					
WDG1	SUSPENDED WOOD CEILING	ARMSTRONG	WOOD WORKS LINEAR VENEERED PANELS 4" WIDE PLANKS, 3/4" REVEAL	24" X 96" X 3/4"	REF. TO RCP
09 62 00 - SPECIALITY FLOORING					
PF1	PERFORMANCE FLOORING	POLYONYX	POLYONYX+ FLOORING ON SLEEPER SYSTEM		
PF2	PERFORMANCE FLOORING	HARDWOOD	HARDWOOD FLOORING ON SLEEPER SYSTEM		MATCH WOOD STAIN TO PL1
09 64 66 - WOOD ATHLETIC FLOORING					
WAF1	WOOD ATHELTHIC FLOORING	TARKETT SPORTS	CLUTCHCOURT FINISH TO MATCH GLULAMS		
09 65 00 - RESILIENT FLOORING					
LVT1	RESILLIENT FLOORING	MANNINGTON COMMERCIAL	ACTIVE LINES BEND 20 MIL ; FLASH AND ZOOM TEAL (70% OF FLASH, 15% OF BLUE, 15% OF GREEN)	6" X 36" (20 MIL)	INSTALLED STAGGERED, REF TO FINISH PLANS FOR INSTALLATION
RB1	RESILLIENT BASE	JOHNSONITE	CHARCOAL WG 20	4" COVE BASE	
RB2	RESILLIENT BASE	JOHNSONITE	BLACK 40	4" TOELESS BASE	
RB3	RESILLIENT BASE	JOHNONSITE	BLACK 40	4" VENTED BASE	
09 65 16.33 - RUBBER FLOORING					
RF1	RUBBER FLOORING	MANNINGTON	COLOR ANCHOR RUBBER; COLOR SPEC; NIMBUS 047		STAIR TREADS AND RISERS ; INTEGRAL STAIR NOSING
09 66 23 - TERRAZZO FLOORING					
TZ1	TERRAZZO FLOORING	TERRAZZO AND MARBLE SUPPLY	TERRAZZO COLOR 24-4000		FIELD
TZ2	TERRAZZO FLOORING	TERRAZZO AND MARBLE SUPPLY	TERRAZZO COLOR 24-4002		ACCENT; REFER TO FINISH PLANS FOR INSTALLATION
TZ3	TERRAZZO FLOORING	TERRAZZO AND MARBLE SUPPLY	TERAZZO COLOR 24-4003		ACCENT; REFER TO FINISH PLANS FOR INSTALLATION
09 67 23 - RESINOUS FLOORING					
RSB1	RESINOUS FLOORING	STONTEC	TO MATCH RSF1		INTEGRAL COVE 4" BASE
RSF1	RESINOUS FLOORING	STONTEC	BLUE RIDGE SMALL FLAKES		
09 68 13 - TILE CARPETING					
CPT1	TILE CARPET	TARKETT FLOORING	CREATE PURPOSE RESOURCEFUL	18" X 36"	INSTALLED VERTICAL ASHLAR
09 68 16 - SHEET CARPETING					
CPS1	SHEET CARPET	TARKETT FLOORING	CREATE PURPOSE RESOURCEFUL	72" ROLL WIDTH	
09 84 00 - ACOUSTICAL ROOM COMPONENTS					
AC1	ACOUSTICAL CLOUDS	AVL SYSTEMS	ACOUSTISHELL CURVILINEAR DIFFUSER -REFLECTOR ; COLORS P2	REFER TO ENLARGED PLANS FOR SIZES	
ASL1	ACOUSTICAL SUSPENSED SYSTEM	ZILENZIO	DELTA PANELS 1 ,2,3 (EQUAL MIX OF ALL THREE PANELS SUSPENDED) ; FABRIC KVADRAT HERO 2; 0912, 0942,0962	REFER TO RCPS AND ELEVATIONS	
AWP1	ACOUSTICAL WALL PANEL	ACOUFELT	SOLID PANEL 24MM ; THISTLE	1" THICK, REF. INT. ELEVATIONS	
AWP2	ACOUSTICAL WALL PANEL	ACOUFELT	SOLID PANEL 24MM ; IVORY	1" THICK, REF. INT. ELEVATIONS	
AWP3	ACOUSTICAL WALL PANEL	ACOUFELT	SOLID PANEL 24MM ; GRANITE	1" THICK, REF. INT. ELEVATIONS	
AWP4	ACOUSTICAL WALL PANEL	ACOUFELT	SOLID PANEL 24MM GREY	1" THICK, REF. INT. ELEVATIONS	
09 90 00 - PAINTING AND COATING					
P1	PAINT	SHERWIN WILLIAMS	FIELD PAINT ; SW 6070 HERON PLUME	-	
P2	PAINT	SHERWIN WILLIAMS	ACCENT PAINT; SW 1015 SKYLINE STEEL	-	
P3	PAINT	SHERWIN WILLIAMS	ACCENT PAINT;SW 9133 JASPER STONE	-	
P4	PAINT	SHERWIN WILLIAMS	ACCENT PAINT; SW 6748 GREENS	-	
P5	PAINT	SHERWIN WILLIAMS	ACCENT PAINT; SW 9179 ANCHORS AWEIGH	-	
P6	PAINT	SHERWIN WILLIAMS	HM DOOR FRAMES AND HM WINDOW FRAMES PAINT; SW 7642 PAVESTONE	-	
P7	PAINT	SHERWIN WILLIAMS	GYP. CEIINGS AND SOFFITS U.N.O SW OYSTER VEIL	-	
P8	PAINT	SHERWIN WILLIAMS	ACCENT PAINT : SW 7020 BLACK FOX	-	DRY FOG ON STRUCTURE, EGGSHELL ON WALLS
10 - SPECIALTIES					
10 11 00 - VISUAL DISPLAY UNITS					
GMB1	GLASS MARKERBOARDS	CLARIDGE	FLOATING GLASS MARKERBOARDS WITH PENS AND ERASER; COLOR WHITE; MAGNETIC FINISH		
TB1	TACKBOARD	CLARIDGE	CORK, COLOR SELECTION TO BE DETEREMINED BY ARCHITECT IN CA	4' X 4' TACKBOARD	TEACHING WALLS, REFER TO INTERIOR ELEVATIONS
10 21 13 - PLASTIC TOILET COMPARTMENTS					
TP1	TOILET PARTITIONS	SCRANTON PRODUCTS	HINY HIDERS; FLAT; FIRE RATED; TEXTURE : ORANGE PEEL, FINISH GREY	55" HIGH PARTITIONS	
US1	URINAL SCREENS	SCRANTON PRODUCTS	HINY HIDERS; FLAT; FIRE RATED; TEXTURE : ORANGE PEEL, FINISH GREY		
10 26 23.14 - WALL PROTECTION					
CG1	CORNER GUARD	INPRO	STAINLESS STEEL	2"X2"X7'-8" ALIGN WITH TOP OF ADJACENT DOORS WHERE APPLICABLE	TO BE INSTALLED AT ALL OUTSIDE GYP.BD. CORNERS IN PUBLIC SPACES U.N.O. REFER TO FINISH PLANS AND INTERIOR PLAN DETAILS FOR MORE INFORMATION.
10 51 13 - METAL LOCKERS					
LCK1	METAL LOCKERS	PENCO	GUARDIAN 2 TIER WITH FRONT BASE, CLASSIC II RECESSED HANDLE FOR MULTI POINT LATCHING, SLOPED TOP. COLOR TO BE SELECTED FROM MANUFACTUER'S FULL RANGE	15"W X 15"D X 72"H	
LCKB1	ADA LOCKER BENCH	PENCO	HEAVY DUTY BENCH PEDESTAL WITH ADA BACK 24" DEEP		
11 - EQUIPMENT					
11 61 43 - STAGE CURTAIN					
STG1	STAGE CURTAINS	KIM FABRICS	STAGE TRACK AND VALANCE, BORDERS AND REAR CURTAIN, COLORS TO BE SELECTED BY ARCHITECT FROM MANUFACTER'S FULL RANGE		STAGE
11 66 23					
	BASKETBALL GOALS	DRAPER			
11 66 23.53 - WALL PADDING					
WP1	GYMNASIUM WALL PADDING	DRAPER	ECOVISION WALL PAD;COLOR TBD	2' X 6'	1" FABRIC WRAPPED MOUNTING FLANGES AT PANEL TOP AND BOTTOM
12 - FURNISHINGS					
06 61 16 - SOLID SURFACING FABRICATIONS					
SS1	SOLID SURFACE	WILSONART	ANGEL FALLS	1/2" THICKNESS	COUNTERTOPS
12 24 13 - ROLLER SHADES					
WT1	WINDOW TREATMENT	HUNTER DOUGLAS ARCHITECTURAL	RB 500 + MANUAL ROLLER SHADES; FASCIA COLOR : TBD, FABRIC COLOR TBD	SHADES TO EXTEND FULL LENGTH OF EXPOSED GLASS	MANUAL SHADES; TO BE PROVIDED AT ALL OFFICE AND CLASSROOM EXTERIOR WINDOWS. REF INTERIOR FINISH PLANS FOR ADDITIONAL LOCATIONS.
WT2	WINDOW TREATMENT	HUNTER DOUGLAS ARCHITECTURAL	RB 500 + MANUAL ROLLER SHADES; FASCIA COLOR : TBD, FABRIC COLOR TBD	SHADES TO EXTEND FULL LENGTH OF EXPOSED GLASS	MANUAL SHADES; TO BE PROVIDED AT ALL INTERIOR CLASSROOMS AND OFFICE GLAZING UNITS GREATER THAN 4'-0" WIDE REFER TO INTERIOR FINISH PLANS FOR ADDITIONAL LOCATIONS.
12 36 00- PHENLIC RESIN COUNTERTOPS					
PR1	PHENOLIC RESIN COUNTERTOP	DURCON	CHEMICAL RESISTANT, COLOR TO BE SELECTED FROM MANUFACTURER'S FULL RANGE		
12 44 16 - SHOWER CURTAINS					
CT1	TOILET ACCESSORIES	BOBRICK	WHITE OPAQUE VINYL	70"W X 72"H	
12 48 13- ENTRANCE FLOOR MAT					
EM1	ENTRY MAT	MATS INC.	SUPER NOP 52 ; COLOR STERLING		REFER TO FINISH PLANS FOR WALK OFF MAT SIZES.

FINISH FLOOR PLAN LEGEND



NOTE: FINISH CODES MARKED WITH AN ASTERISK * * * INDICATES "SEE FINISH PLAN AND ROOM FINISH SCHEDULE REMARKS FOR EXTENT OF FINISHES." MULTIPLE FINISHES IN ROOM.

FINISH ABBREVIATIONS

FLOOR FINISH CODE ABBREVIATIONS

CPS	CARPET SHEET	**WAF**	WOOD ATHLETHIC FLOORING
LVT	LUXURY VINYL TILE	**WDF**	WOOD FLOORING
PC	POLISHED CONCRETE	**EM**	ENTRY MAT
PF	PERFORMANCE FLOORING (POLYMER PANEL)		
RSF	RESINOUS FLOORING		
RF	RUBBER FLOORING		
SC	SEALED CONCRETE		
TL	TILE		
TZ	TERRAZZO FLOORING		
QT	QUARRY TILE		

BASE FINISH CODE ABBREVIATIONS

RB	RESILIENT BASE
RSB	RESINOUS BASE
TLB	TILE BASE
QTB	QUARY TILE BASE

WALL FINISH CODES

AWP	ACOUTICAL WALL PANELS	**WC**	WALLCOVERING
FWP	FABRIC WRAPPED ACOUTISCAL PANELS	**WD**	WOOD
FRP	FIBERGLASS REINFORCED PANELS	**TL**	WALL TILE
P	PAINT		
PG	PARGE		
PX	PAINT, EPOXY		
SS	STAINLESS STEEL		

MISC. FINISH CODE ABBREVIATIONS

APC	ACOUSTICAL PANEL CEILING	**TP**	TOILET PARTITIONS
ES	EXPOSED STRUCTURE	**TB**	TACKBOARD
GWB	GYPSUM WALL BOARD	**WT**	WINDOW TREATMENT
GMB	GLASS MARKER BOARD		
MB	MARKER BOARD		
PL	PLASTIC LAMINATE		
SS	SOLID SURFACE MATERIAL		

FINISH FLOOR PATTERN PLAN LEGEND

CPS1	CARPET SHEET	**EM1**	ENTRY MAT
CPT1	CARPET TILE	**TZ1**	TERRAZZO FLOORING
LVT1	LVT FLOORING	**TZ2**	TERRAZZO FLOORING
PF1	PERFORMANCE FLOORING	**TZ3**	TERRAZZO FLOORING
RSF	RESINOUS FLOORING	**QT1**	QUARRY TILE
SC1	SEALED CONCRETE	**WAF1**	WOOD ATHLETHIC FLOORING
SC2	SEALED CONCRETE BLACK	**TL3**	WOOD TILE FLOORING

GENERAL FINISH NOTES

1. REFER TO THE FINISH LEGEND AND PLANS FOR ADDITIONAL INFORMATION.
2. ALL FLOORING TRANSITIONS OCCUR AT THE CENTER OF THE UNDERSIDE OF THE DOOR UNLESS OTHERWISE NOTED.
3. IN SECONDARY STAIRWELLS, ALL EXPOSED HANDRAILS, STAIR PANS AND STRINGERS TO BE PAINTED **PX6**.
4. REFER TO INTERIOR ELEVATION SHEET FOR DETAILS AND TRANSITIONS OF WALL TILE, ACOUSTICAL WALL PANELS MARKER BOARDS AND TACKBOARDS.
5. A 1/16" DIVIDER STRIP CONTROL JOINT IS TO LOCATED IN THE TERRAZZO DIRECTLY ALIGNED WITH ALL CONCRETE FLOOR SLAB CONTROL JOINT LOCATIONS.
6. LINES WHERE COLOR CHANGE OCCURS IN THE TERRAZZO SHOULD BE SEPERATED WITH 1/8" METAL DIVIDER STRIPS.
7. MISC. EXPOSED HARDWARE INCLUDING BUT NOT LIMITED TO LOUVERS, GRATES OR TRIM ACCESSORIES, TO BE PAINTED TO MATCH ADJACENT WALL FINISH.
8. **ALL NEW INTERIOR FINISHES TO COMPLY WITH CHAPTER 8 OF THE 2018 NC BUILDING AND FIRE CODES. REFER TO SPECIFICATIONS FOR CLASS RATINGS FOR EACH FINISH MATERIAL.**
9. PAINT **P1** IN ALL LOCATIONS U.N.O.
10. EPOXY PAINT TYPICAL AT ALL FOOD PREP ROOMS, ROOMS THAT ARE APART OF FOOD PREP ROOMS, CAFETERIA, RESTROOMS, JANITOR CLOSETS, UTILITY ROOMS AND STAIRWELLS.
11. ALL HOLLOW METAL DOOR FRAMES AND WINDOWS TO BE PAINTED **P6** UNLESS NOTED OTHERWISE.
12. EXPOSED COLUMS TO BE **PX6** UNLESS OTHERWISE NOTED.
13. PAINT COLORS DESIGNATED AT BULKHEADS TO BE APPLIED TO ENTIRE VERTICAL AND HORIZONTAL FACES, UNLESS NOTED OTHERWISE IN RCP AND ELEVATIONS.
14. ALL EXPOSED STRUCTURE, MEP EQUIPMENT/ACCESSORIES, CEILING WIRES, ETC PAINTED **PX6.**
15. EXPOSED DECKING TO RECEIVE **PX** PAINT. GLULAMS ARE NOT TO RECEIVE PAINT. PROTECT DURING CONSTRUCTION.

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ENERGY STAR PARTNER

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2	12-13-24	CD REVISIONS

ISSUE DATE: 11/08/24

PROJECT #: 02208.000

DRAWN BY: Author

CHECKED BY: Checker

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INTERIOR FINISH LEGEND

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ROOM FINISH SCHEDULE

ROOM	ROOM NAME	FLOOR	BASE	WALLS	COMMENTS
FIRST FLOOR					
	COOLER/ FREEZER	NA	NA	NA	STAINLESS STEEL WALLS PER MANUF
100	INSTRUMENTAL MUSIC	LVT1	RB1	P1,3/ AWP2*	
100A	STORAGE	LVT1	RB1	P1	
101	VOCAL MUSIC	LVT1	RB1	P1,3/ AWP2*	
101A	STORAGE	LVT1	RB1	P1	
102	DRAMA	LVT1	RB1	P1,3*	
102A	STORAGE	LVT1	RB1	P1	
103	ART	RSF1	RSB1	P1,3*	
103A	STORAGE	RSF	RSB	P1	
104	FAMILY & CONSUMER SCIENCES	RSF1	RSB1	P1,3*	
104A	PANTRY	RSF1	RSB1	P1	
105	AUDITORIUM	CPS1/ SC1/ WDF1	RB2	P5,8/ WD2/ AWP1,4*	
105A	TECH.	CPT1	RB2	P8	
105B	VESTIBULE	CPT1	RB2	P8	
105C	STAGE	PF1/ SC2*	RB1	PT8	
105D	STAGE STORAGE	LVT1	RB1	P1	
106	GREEN ROOM	LVT1	RB1	P1	
107	MEN DRESS.	LVT1	RB1	P1	
108	WOMEN DRESS.	LVT1	RB1	P1	
109	BOYS	RSF1	RSB1	PX1-PX4*	
110	TLT	RSF1	RSB1	PX	
111	TLT	RSF1	RSB1	PX	
112	GIRLS	RSF1	RSB1	PX1-PX4*	

ROOM FINISH SCHEDULE

ROOM	ROOM NAME	FLOOR	BASE	WALLS	COMMENTS
200	GUIDANCE	LVT1	RB1	P1,5*	
201	CONFERENCE	LVT1	RB1	P1,5/ WF1*	
202	SECRETARY	LVT1	RB1	P1	
203	STUDENT SERVICES	LVT1	RB1	P1,3*	
204	SUPPLIES	LVT1	RB1	P1	
205	OFFICE/ TESTING	LVT1	RB1	P1,3*	
206	OFFICE/ TESTING	LVT1	RB1	P1,3*	
207	OFFICE/ TESTING	LVT1	RB1	P1,3*	
208	SRO	LVT1	RB1	P1,3*	
209	TEACHER LOUNGE	LVT1	RB1	P1	
210	WOMEN	RSF1	RSB1	PX	
211	MEN	RSF1	RSB1	PX	
212	RECEPTION	LVT1	RB1	P1,5*	
213	HEALTH	LVT1	RB1	P1,3*	
213A	TL	RSF1	RSB1	PX	
214	SIMS	LVT1	RB1	P1	
215	SECRETARY	LVT1	RB1	P1	
216	PRINCIPAL	LVT1	RB1	P1,3*	
216A	TL	RSF1	RSB1	PX	TC1 ON WALLS TO 78" A.F.F.
216B	CORR	LVT1	RB1	P1	
217	CONFERENCE	LVT1	RB1	P1,3*	
218	ASSISTANT PRINCIPAL	LVT1	RB1	P1,3*	
219	MEN	RSF1	RSB1	PX	TC1 ON WALLS TO 78" A.F.F.
220	WOMEN	RSF1	RSB1	PX	
221	RECORDS	LVT1	RB1	P1	TC1 ON WALLS TO 78" A.F.F.
222	WORKROOOM	LVT1	RB1	P1	
223	MEDIA CENTER	CPT1 /EM	RB2	P1,4/ AWP*	
224	WORKROOM	CPT1	RB2	P1	
225	IT WORKROOM	CPT1	RB2	P1	
225A	STOR	LVT1	RB1	P1	
226	OFFICE	CPT1	RB2	P1	
227	MDF	SC1	RB1	P1	3/4" PLYWOOD TYP ALL MDF AND IDF ROOMS UP TO 6' AFF

ROOM FINISH SCHEDULE

ROOM	ROOM NAME	FLOOR	BASE	WALLS	COMMENTS
228	UNISEX	RSF1	RSB1	PX1-PX4*	
300	DINING	TZ1/TZ2/ EM1	RB1	P1, AWP1-4*	
301	SERVING	QT1	QTB1	PX	EPOXY PAINT ON WALL PARGING
302	DISHWASH	QT1	QTB1	PX	EPOXY PAINT ON WALL PARGING
303	KITCHEN	QT1	QTB1	PX	EPOXY PAINT ON WALL PARGING
303A	DRY STORAGE	QT1	QTB1	PX	EPOXY PAINT ON WALL PARGING
303B	OFFICE	QT1	QTB1	PX	EPOXY PAINT ON WALL PARGING
304	RECEIVING	QT	QTB1	P1	
305	CUST.	SC1	RB1	FRP1, PX*	EPOXY PAINT ON WALL PARGING
306	KIT. LOCKER	QT1	QTB1	PX	EPOXY PAINT ON WALL PARGING
306A	UNISEX	QT1	QTB1	PX	EPOXY PAINT ON WALL PARGING
307	GYM	WAF1	RB3	P1/ WP1/ AWP1-4*	
307A	CUST.	SC1	RB1	FRP1, PX*	
307B	STORAGE	SC	RB1	P1	
307B	LOBBY	RSF1	RSB1	P1	
307C	LOBBY	RSF1	RSB1	P1	
308	GIRLS LOCKERS	RSF1	RSB1	P1,P5*	
308A	GIRLS SHOWERS	RSF1	RSB1	PX1-PX4*	
308B	VESTIBULE	RSF1	RSB1	P1	
309	COACH OFFICE	LVT1	RB1	P1	
309A	STAFF TLT	RSF1	RSB1	PX	
310	COACH OFFICE	LVT1	RB1	P1	
310A	STAFF TLT	RSF1	RSB1	PX	
311	BOYS LOCKERS	RSF1	RSB1	P1-5*	
311A	BOYS SHOWERS	RSF1	RSB1	PX1-PX4*	
311B	VESTIBULE	RSF1	RSB1	P1	
312	GIRLS	RSF1	RSB1	PX1-PX4*	
313	CUST.	SC1	RB1	FRP1, PX*	
314	BOYS	RSF1	RSB1	PX1-PX4*	
315	CONCESSION	SC1	RB1	P1	
316	HEALTH ROOM 2	LVT1	RB1	P1-3*	

ROOM FINISH SCHEDULE

ROOM	ROOM NAME	FLOOR	BASE	WALLS	COMMENTS
316A	STORAGE	LVT1	RB1	P1	
317	HEALTH ROOM 1	LVT1	RB1	P1-3*	
400	CUST.	SC1	RB1	FRP1, PX*	
401	STEM CLASSROOM	LVT1	RB1	P1,3*	
402	ITINERANT TEACHER OFFICES	LVT1	RB1	P1,4*	
403	ES CS CLASSROOM	LVT1	RB1	P1,3*	
403A	TLT	RSF1	RSB1	PX	
404	CORE CLASSROOM	LVT1	RB1	P1-4*	
405	CORE CLASSROOM	LVT1	RB1	P1-4*	
406	FLEX CLASSROOM	LVT1	RB1	P1-4*	
406A	PREP ROOM	LVT1	RB1	P1	
406B	STORAGE	LVT1	RB1	P1	
407	SCIENCE	LVT1	RB1	P1-4*	
407A	PREP ROOM	LVT1	RB1	P1	
407B	STORAGE	LVT1	RB1	P1	
408	SCIENCE	LVT1	RB1	P1-4*	
409	SCIENCE	LVT1	RB1	P1-4*	
410	TEACHER WORK ROOM	LVT1	RB1	P1	
410A	TLT	RSF1	RSB1	PX	
410B	TLT	RSF1	RSB1	PX	
411	GIRLS	RSF1	RSB1	PX1-PX4*	
412	RESOURCE	LVT1	RB1	P1-4*	
413	BOYS	RSF1	RSB1	PX1-PX4*	
414	RESOURCE	LVT1	RB1	P1-4*	
415	CORE CLASSROOM	LVT1	RB1	P1-4*	
416	CORE CLASSROOM	LVT1	RB1	P1-4*	
417	CORE CLASSROOM	LVT1	RB1	P1-4*	
418	CORE CLASSROOM	LVT1	RB1	P1-4*	
419	CORE CLASSROOM	LVT1	RB1	P1-4*	
420	CORE CLASSROOM	LVT1	RB1	P1-4*	

ROOM FINISH SCHEDULE

ROOM	ROOM NAME	FLOOR	BASE	WALLS	COMMENTS
421	CORE CLASSROOM	LVT1	RB1	P1-4*	
422	CORE CLASSROOM	LVT1	RB1	P1-4*	
500	STEM CLASSROOM	LVT1	RB1	P1-3*	
501	EC S/C CLASSROOM	LVT1	RB1	P1-3*	
501A	TLT	RSF1	RSB1	P1	
502	CORE CLASSROOM	LVT1	RB1	P1-3*	
503	CORE CLASSROOM	LVT1	RB1	P1-3*	
504	SCIENCE	LVT1	RB1	P1-3*	
504A	PREP ROOM	LVT1	RB1	P1	
504B	STORAGE	LVT1	RB1	P1	
505	FLEX CLASSROOM	LVT1	RB1	P1-3*	
505A	PREP ROOM	LVT1	RB1	P1	
505B	STORAGE	LVT1	RB1	P1	
506	SCIENCE	LVT1	RB1	P1-3*	
507	SCIENCE	LVT1	RB1	P1-3*	
508	TEACHER WORK ROOM	LVT1	RB1	P1	
509	GIRLS	RSF1	RSB1	PX1-PX4*	
510A	TLT	RSF1	RSB1	PX	
510B	TLT	RSF1	RSB1	PX	
511	CUST.	SC1	RB1	FRP1, PX*	
512	RESOURCE	LVT1	RB1	P1-3*	
513	BOYS	RSF1	RSB1	PX1-PX4*	
514	RESOURCE	LVT1	RB1	P1-3*	
515	CORE CLASSROOM	LVT1	RB1	P1-3*	
516	CORE CLASSROOM	LVT1	RB1	P1-3*	
517	CORE CLASSROOM	LVT1	RB1	P1-3*	
518	CORE CLASSROOM	LVT1	RB1	P1-3*	
519	CORE CLASSROOM	LVT1	RB1	P1-3*	
520	CORE CLASSROOM	LVT1	RB1	P1-3*	

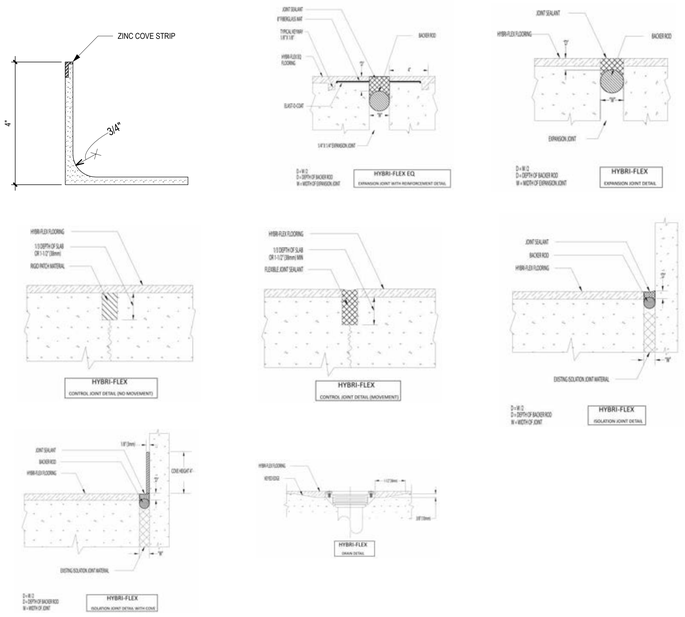
ROOM FINISH SCHEDULE

ROOM	ROOM NAME	FLOOR	BASE	WALLS	COMMENTS
521	CORE CLASSROOM	LVT1	RB1	P1-3*	
522	CORE CLASSROOM	LVT1	RB1	P1-3*	
C100	LOBBY	TZ1-3/ EM1*	RB1	P1-5*	
C101	CORRIDOR	TZ1-3*	RB1	P1-5*, AWP*	
C102	CORRIDOR	TZ1-3/ EM1*	RB1	P1	
C103	CORRIDOR	LVT1	RB1	P1	
C200	LOBBY	TZ1-2/ EM1*	RB1	P1	
C201	CORRIDOR	TZ1-3*	RB1	P1-5*, AWP*	
C202	CORRIDOR	LVT1	RB1	PT1	
C203	CORRIDOR	LVT1	RB1	P1	
C300	CORRIDOR	TZ1-3*	RB1	P1-5*, AWP*	
C300	CORRIDOR	TZ1-3*	RB1	P1-5*, AWP*	
C300.1	COLLABORATION	TL3	RB1	P5	
C301	LOBBY	TZ1 /EM1	RB1	P1	
C302	CORRIDOR	QT1	QTB1	PX	
C400	CORRIDOR	TZ1-3*	RB1	P1-5*, AWP*	
C401	CORRIDOR	TZ1-3*	RB1	P 1,4,5*	
C402	COLLABORATION	TZ1-3, EM1*	RB1	P1,3*	
C403	VESTIBULE	TZ1 /EM1	RB1	P1	
C500	CORRIDOR	TZ1-3*	RB1	P1-5*, AWP*	
C501	COLLABORATION	LVT1	RB1	P1,3*	
M100	MECH	SC1	RB1	P1	
M101	MECH	SC1	RB1	P1	
M200	CUST.	SC1	RB1	FRP1, PX*	
M300	ELECTRICAL	SC	RB1	PX	
M301	MECHANICAL	SC	RB1	PX	
M302	EMERG. ELEC.	SC	RB1	PX	
M303	MECH	SC1	RB1	P1	
M400	MECH	SC1	RB1	P1	
M401	IDF	SC1	RB1	P1	3/4" PLYWOOD TYP ALL MDF AND IDF ROOMS UP TO 6' AFF
M402	ELEC.	SC1	RB1	P1	
M403	CUST.	SC1	RB1	FRP1, PX*	
M500	MECH	SC1	RB1	P1	
M501	MECH	SC1	RB1	P1	
M502	MECH	SC1	RB1	P1	
M503	MECH	SC1	RB1	P1	
M504	MECH	SC1	RB1	P1	
M505	MECH	SC	RB1	P1	
M506	MECH	SC	RB1	P1	
M506	IDF	SC1	RB1	P1	3/4" PLYWOOD TYP ALL MDF AND IDF ROOMS UP TO 6' AFF
M507	MECH	SC1	RB1	P1	
M508	MECH	SC1	RB1	P1	
M508	ELEC.	SC1	RB1	P1	

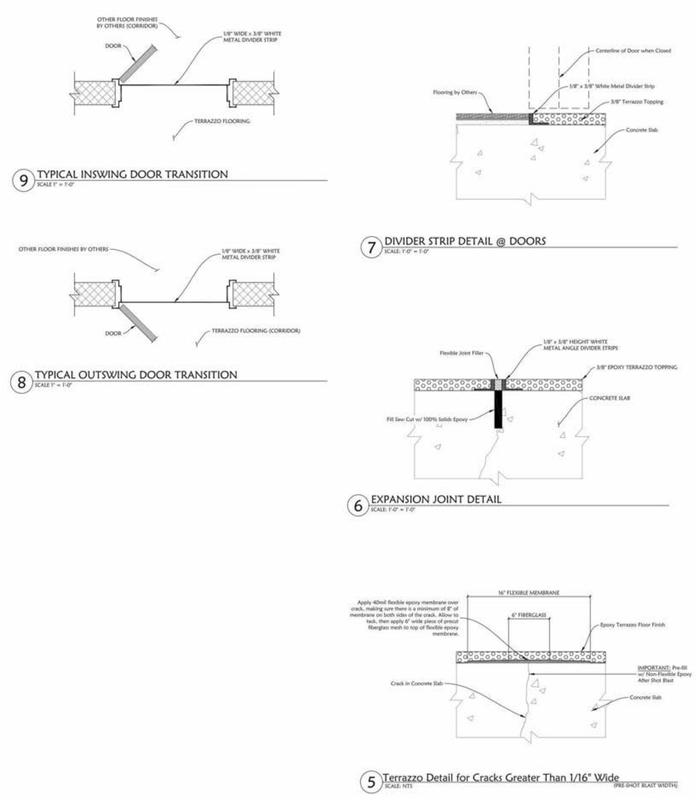
ROOM FINISH SCHEDULE

ROOM	ROOM NAME	FLOOR	BASE	WALLS	COMMENTS
S300	MONUMENTAL STAIRS	TZ1	RB1	PS/ TL1,2*	
S301	ELEVATOR	TZ1	N/A	N/A	
S500	STAIR 1	RF1	RB1	P2,4*	
S501	STAIR 2	EM/ RF1*	RB1	P1,4*	
SECOND FLOOR					
600	COLLABORATION	LVT1	RB1	P1-P4, CMP4*	
600A	STEM LAB	LVT 1	RB1	P1*	
600B	CONFERENCE	LVT	RB1	P1	
600C	ASSISTANT PRINCIPAL	LVT	RB1	P1	
601	E/C ES CLASSROOM	LVT1	RB1	P1-3*	
601A	TLT	RSF1	RSB1	PX	
602	STEM CLASSROOM	LVT1	RB1	P1-3*	
603	CORE CLASSROOM	LVT1	RB1	P1-3*	
604	CORE CLASSROOM	LVT1	RB1	P1-3*	
605	FLEX CLASSROOM	LVT1	RB1	P1-3*	
605A	PREP ROOM	LVT1	RB1	P1	
605B	STORAGE	LVT1	RB1	P1	
606	SCIENCE	LVT1	RB1	P1-3*	
606A	PREP ROOM	LVT1	RB1	P1	
606B	STORAGE	LVT1	RB1	P1	
607	SCIENCE	LVT1	RB1	P1-3*	
608	SCIENCE	LVT1	RB1	P1-3*	
609	GIRLS	RSF1	RSB1	PX1-PX4*	
610	TEACHER WORK ROOM	LVT1	RB1	P1	
611	CUST.	SC1	RB1	FRP1, PX*	
612A	TLT	RSF1	RSB1	PX	
612B	TLT	RSF1	RSB1	PX	
613	BOYS	RSF1	RSB1	PX1-PX4*	
614A	RESOURCE	LVT1	RB1	P1	
614B	RESOURCE	LVT1	RB1	P1	
615	CORE CLASSROOM	LVT1	RB1	P1-3*	
616	CORE CLASSROOM	LVT1	RB1	P1-3*	
617	CORE CLASSROOM	LVT1	RB1	P1-3*	
618	CORE CLASSROOM	LVT1	RB1	P1-3*	
619	CORE CLASSROOM	LVT1	RB1	P1-3*	
620	CORE CLASSROOM	LVT1	RB1	P1-3*	
621	CORE CLASSROOM	LVT1	RB1	P1-3*	
622	CORE CLASSROOM	LVT1	RB1	P1-3*	
C600	CIRCULATION	TZ1,3*	RB1	P1-P2*	
C601	CORRIDOR	TZ1-3*	RB1	P1-5*, AWP*	
M600	STORAGE	LVT1	RB1	P1	
M601	ELEV. CLOSET	SC1	RB1	P1	
M602	ELECT	SC1	RB1	P1	
M603	IDF	SC1	RB1	P1	3/4" PLYWOOD TYP ALL MDF AND IDF ROOMS UP TO 6' AFF
MP300	MECHANICAL	SC			TYP ALL MECH PLATFORMS
S601	STAIR 1	RF1	RB1	P1,4*	
MECH PLATFORM 600					
MP600	MECH PLATFORM	SC			TYP ALL MECH PLATFORMS

SEE FINISH FLOOR PLANS FOR LOCATION OF CONTROL JOINTS COORDINATE WITH FLOORING MANUFACTURER DETAILS FOR CONTROL AND EXPANSION JOINTS IN CONCRETE SLABS.



2 A-702 RESINOUS FLOOR DETAILS
NOT TO SCALE



1 A-702 TERRAZZO JOINT DETAILS
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CONSTRUCTION DOCUMENTS

HARNETT COUNTY SCHOOLS
FLATWOODS MIDDLE SCHOOL
3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

ISSUE DATE: 11/08/24
PROJECT #: 02208.000
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ROOM FINISH SCHEDULE AND FLOOR DETAILS

A-702

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1 A-710.1 **FIRST FLOOR FINISH PLAN**

SCALE: 3/64" = 1'-0"

FINISH FLOOR PLAN LEGEND

ROOM NAME
RM NO. | SQFT

NOTE: FINISH CODES MARKED WITH AN ASTERISK "*" INDICATES "SEE FINISH PLAN AND ROOM FINISH SCHEDULE REMARKS FOR EXTENT OF FINISHES." MULTIPLE FINISHES IN ROOM.

WALL FINISH
BASE FINISH
FLOOR FINISH
EXTENTS OF ACCENT PAINT

FINISH 1
FINISH TRANSITION
FINISH 2

FINISH ABBREVIATIONS

FLOOR FINISH CODE ABBREVIATIONS

CPS	CARPET SHEET	**WAF**	WOOD ATHLETHIC FLOORING
LVT	LUXURY VINYL TILE	**WDF**	WOOD FLOORING
PC	POLISHED CONCRETE	**EM**	ENTRY MAT
PF	PERFORMANCE FLOORING (POLYMER PANEL)		
RSF	RESINOUS FLOORING		
RF	RUBBER FLOORING		
SC	SEALED CONCRETE		
TL	TILE		
TZ	TERRAZZO FLOORING		
QT	QUARRY TILE		

BASE FINISH CODE ABBREVIATIONS

RB	RESILIENT BASE
RSB	RESINOUS BASE
TLB	TILE BASE
QTB	QUARY TILE BASE

WALL FINISH CODES

AWP	ACOUTICAL WALL PANELS	**WC**	WALLCOVERING
FWP	FABRIC WRAPPED ACOUTISCAL PANELS	**WD**	WOOD
FRP	FIBERGLASS REINFORCED PANELS	**TL**	WALL TILE
P	PAINT		
PG	PARGE		
PX	PAINT, EPOXY		
SS	STAINLESS STEEL		

MISC. FINISH CODE ABBREVIATIONS

APC	ACOUSTICAL PANEL CEILING	**TP**	TOILET PARTITIONS
ES	EXPOSED STRUCTURE	**TB**	TACKBOARD
GWB	GYPSUM WALL BOARD	**WT**	WINDOW TREATMENT
GMB	GLASS MARKER BOARD		
MB	MARKER BOARD		
PL	PLASTIC LAMINATE		
SS	SOLID SURFACE MATERIAL		

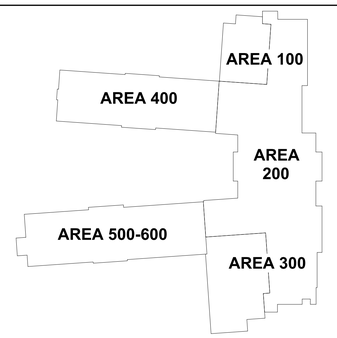
FINISH FLOOR PATTERN PLAN LEGEND

CPS1	CARPET SHEET	**EM1**	ENTRY MAT
CPT1	CARPET TILE	**TZ1**	TERRAZZO FLOORING
LVT1	LVT FLOORING	**TZ2**	TERRAZZO FLOORING
PF1	PERFORMANCE FLOORING	**TZ3**	TERRAZZO FLOORING
RSF	RESINOUS FLOORING	**QT1**	QUARRY TILE
SC1	SEALED CONCRETE	**WAF1**	WOOD ATHLETHIC FLOORING
SC2	SEALED CONCRETE BLACK	**TL3**	WOOD TILE FLOORING

GENERAL FINISH NOTES

1. REFER TO THE FINISH LEGEND AND PLANS FOR ADDITIONAL INFORMATION.
2. ALL FLOORING TRANSITIONS OCCUR AT THE CENTER OF THE UNDERSIDE OF THE DOOR UNLESS OTHERWISE NOTED.
3. IN SECONDARY STAIRWELLS, ALL EXPOSED HANDRAILS, STAIR PANS AND STRINGERS TO BE PAINTED **PX6**.
4. REFER TO INTERIOR ELEVATION SHEET FOR DETAILS AND TRANSITIONS OF WALL TILE, ACOUSTICAL WALL PANELS MARKER BOARDS AND TACKBOARDS.
5. A 1/16" DIVIDER STRIP CONTROL JOINT IS TO LOCATED IN THE TERRAZZO DIRECTLY ALIGNED WITH ALL CONCRETE FLOOR SLAB CONTROL JOINT LOCATIONS.
6. LINES WHERE COLOR CHANGE OCCURS IN THE TERRAZZO SHOULD BE SEPERATED WITH 1/8" METAL DIVIDER STRIPS.
7. MISC. EXPOSED HARDWARE INCLUDING BUT NOT LIMITED TO LOUVERS, GRATES OR TRIM ACCESSORIES, TO BE PAINTED TO MATCH ADJACENT WALL FINISH.
8. **ALL NEW INTERIOR FINISHES TO COMPLY WITH CHAPTER 8 OF THE 2018 NC BUILDING AND FIRE CODES. REFER TO SPECIFICATIONS FOR CLASS RATINGS FOR EACH FINISH MATERIAL.**
9. PAINT **P1** IN ALL LOCATIONS U.N.O.
10. EPOXY PAINT TYPICAL AT ALL FOOD PREP ROOMS, ROOMS THAT ARE APART OF FOOD PREP ROOMS, CAFETERIA, RESTROOMS, JANITOR CLOSETS, UTILITY ROOMS AND STAIRWELLS.
11. ALL HOLLOW METAL DOOR FRAMES AND WINDOWS TO BE PAINTED **P6** UNLESS NOTED OTHERWISE.
12. EXPOSED COLUMS TO BE **PX6** UNLESS OTHERWISE NOTED.
13. PAINT COLORS DESIGNATED AT BULKHEADS TO BE APPLIED TO ENTIRE VERTICAL AND HORIZONTAL FACES, UNLESS NOTED OTHERWISE IN RCP AND ELEVATIONS.
14. ALL EXPOSED STRUCTURE, MEP EQUIPMENT/ACCESSORIES, CEILING WIRES, ETC PAINTED **PX6.**
15. EXPOSED DECKING TO RECEIVE **PX** PAINT. GLULAMS ARE NOT TO RECEIVE PAINT. PROTECT DURING CONSTRUCTION.

2



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CONSTRUCTION DOCUMENTS

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3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description
2	12-13-24	CD REVISIONS

ISSUE DATE: 11/08/24

PROJECT #: 02208.000
DRAWN BY: Author
CHECKED BY: Checker

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OVERALL FLOOR FINISH PLAN-FIRST FLOOR

A-710.1

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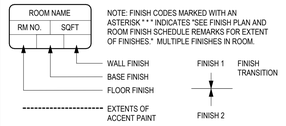
1 A-710.2 **SECOND FLOOR FINISH PLAN**
SCALE: 3/64" = 1'-0"

FINISH FLOOR PLAN LEGEND



NOTE: FINISH CODES MARKED WITH AN ASTERISK * * * INDICATES "SEE FINISH PLAN AND ROOM FINISH SCHEDULE REMARKS FOR EXTENT OF FINISHES." MULTIPLE FINISHES IN ROOM.

FINISH ABBREVIATIONS

FLOOR FINISH CODE ABBREVIATIONS

CPS	CARPET SHEET	**WAF**	WOOD ATHLETHIC FLOORING
LVT	LUXURY VINYL TILE	**WDF**	WOOD FLOORING
PC	POLISHED CONCRETE	**EM**	ENTRY MAT
PF	PERFORMANCE FLOORING (POLYMER PANEL)		
RSF	RESINOUS FLOORING		
RF	RUBBER FLOORING		
SC	SEALED CONCRETE		
TL	TILE		
TZ	TERRAZZO FLOORING		
QT	QUARRY TILE		

BASE FINISH CODE ABBREVIATIONS

RB	RESILIENT BASE
RSB	RESINOUS BASE
TLB	TILE BASE
QTB	QUARY TILE BASE

WALL FINISH CODES

AWP	ACOUTICAL WALL PANELS	**WC**	WALLCOVERING
FWP	FABRIC WRAPPED ACOUTISCAL PANELS	**WD**	WOOD
FRP	FIBERGLASS REINFORCED PANELS	**TL**	WALL TILE
P	PAINT		
PG	PARGE		
PX	PAINT, EPOXY		
SS	STAINLESS STEEL		

MISC. FINISH CODE ABBREVIATIONS

APC	ACOUSTICAL PANEL CEILING	**TP**	TOILET PARTITIONS
ES	EXPOSED STRUCTURE	**TB**	TACKBOARD
GWB	GYPSUM WALL BOARD	**WT**	WINDOW TREATMENT
GMB	GLASS MARKER BOARD		
MB	MARKER BOARD		
PL	PLASTIC LAMINATE		
SS	SOLID SURFACE MATERIAL		

FINISH FLOOR PATTERN PLAN LEGEND

CPS1	CARPET SHEET	**EM1**	ENTRY MAT
CPT1	CARPET TILE	**TZ1**	TERRAZZO FLOORING
LVT1	LVT FLOORING	**TZ2**	TERRAZZO FLOORING
PF1	PERFORMANCE FLOORING	**TZ3**	TERRAZZO FLOORING
RSF	RESINOUS FLOORING	**QT1**	QUARRY TILE
SC1	SEALED CONCRETE	**WAF1**	WOOD ATHLETHIC FLOORING
SC2	SEALED CONCRETE BLACK	**TL3**	WOOD TILE FLOORING

GENERAL FINISH NOTES

1. REFER TO THE FINISH LEGEND AND PLANS FOR ADDITIONAL INFORMATION.
2. ALL FLOORING TRANSITIONS OCCUR AT THE CENTER OF THE UNDERSIDE OF THE DOOR UNLESS OTHERWISE NOTED.
3. IN SECONDARY STAIRWELLS, ALL EXPOSED HANDRAILS, STAIR PANS AND STRINGERS TO BE PAINTED **PX6**.
4. REFER TO INTERIOR ELEVATION SHEET FOR DETAILS AND TRANSITIONS OF WALL TILE, ACOUSTICAL WALL PANELS MARKER BOARDS AND TACKBOARDS.
5. A 1/16" DIVIDER STRIP CONTROL JOINT IS TO LOCATED IN THE TERRAZZO DIRECTLY ALIGNED WITH ALL CONCRETE FLOOR SLAB CONTROL JOINT LOCATIONS.
6. LINES WHERE COLOR CHANGE OCCURS IN THE TERRAZZO SHOULD BE SEPERATED WITH 1/8" METAL DIVIDER STRIPS.
7. MISC. EXPOSED HARDWARE INCLUDING BUT NOT LIMITED TO LOUVERS, GRATES OR TRIM ACCESSORIES, TO BE PAINTED TO MATCH ADJACENT WALL FINISH.
8. **ALL NEW INTERIOR FINISHES TO COMPLY WITH CHAPTER 8 OF THE 2018 NC BUILDING AND FIRE CODES. REFER TO SPECIFICATIONS FOR CLASS RATINGS FOR EACH FINISH MATERIAL.**
9. PAINT **P1** IN ALL LOCATIONS U.N.O.
10. EPOXY PAINT TYPICAL AT ALL FOOD PREP ROOMS, ROOMS THAT ARE APART OF FOOD PREP ROOMS, CAFETERIA, RESTROOMS, JANITOR CLOSETS, UTILITY ROOMS AND STAIRWELLS.
11. ALL HOLLOW METAL DOOR FRAMES AND WINDOWS TO BE PAINTED **P6** UNLESS NOTED OTHERWISE.
12. EXPOSED COLUMS TO BE **PX6** UNLESS OTHERWISE NOTED.
13. PAINT COLORS DESIGNATED AT BULKHEADS TO BE APPLIED TO ENTIRE VERTICAL AND HORIZONTAL FACES, UNLESS NOTED OTHERWISE IN RCP AND ELEVATIONS.
14. ALL EXPOSED STRUCTURE, MEP EQUIPMENT/ACCESSORIES, CEILING WIRES, ETC PAINTED **PX6.**
15. EXPOSED DECKING TO RECEIVE **PX** PAINT. GLULAMS ARE NOT TO RECEIVE PAINT. PROTECT DURING CONSTRUCTION.

2

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ROBERT W. FENTRESS REGISTERED PROFESSIONAL ENGINEER NORTH CAROLINA RALEIGH

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FLATWOODS MIDDLE SCHOOL
3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description
2	12-13-24	CD REVISIONS

ISSUE DATE: 11/08/24
PROJECT #: 02208.000
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OVERALL FLOOR FINISH PLAN-SECOND FLOOR

A-710.2

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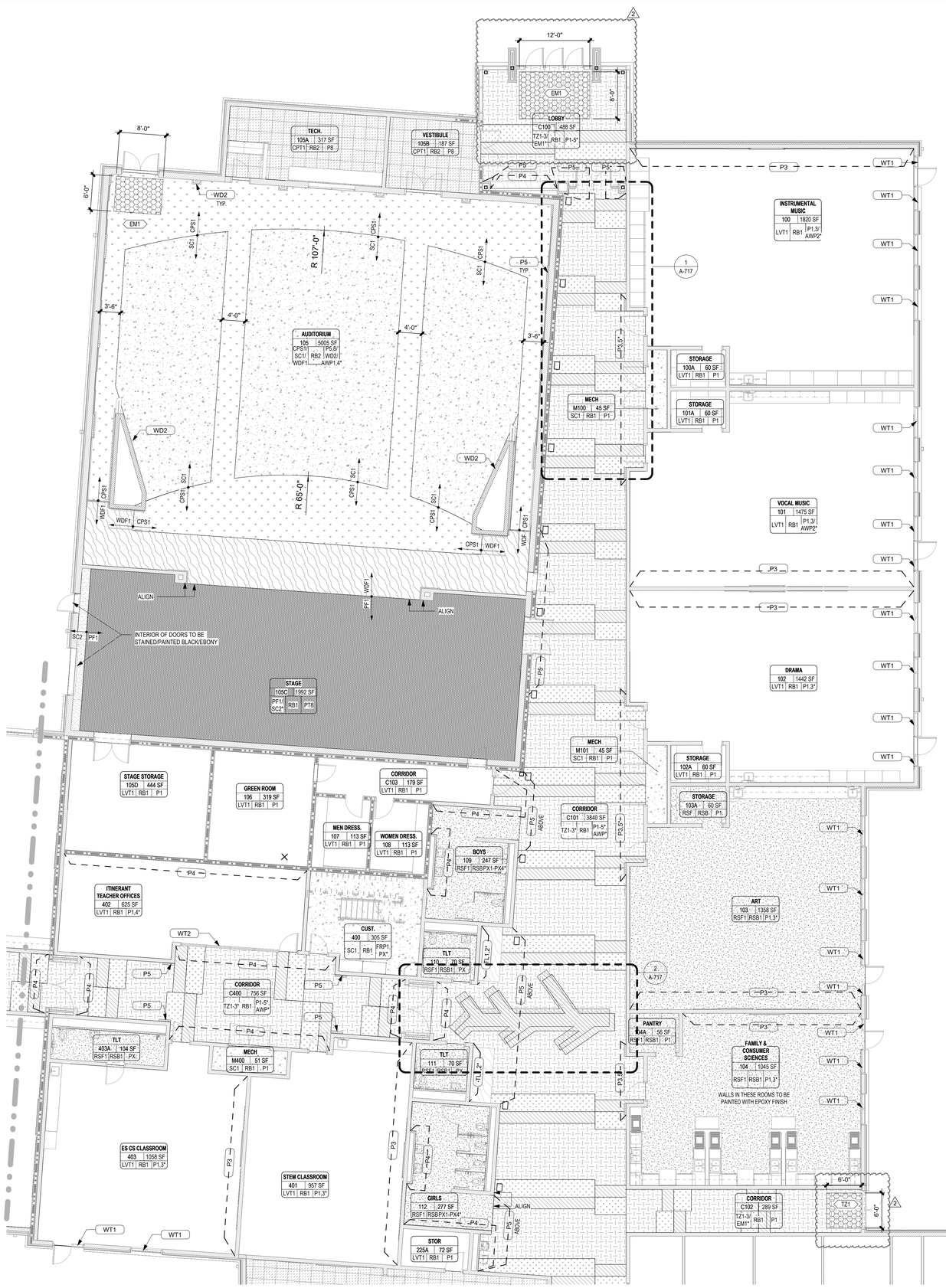

1 A-711 **FLOOR FINISH PLAN-AREA 100**

SCALE: 1/8" = 1'-0"

FINISH FLOOR PLAN LEGEND

ROOM NAME
RM NO. | SQFT

NOTE: FINISH CODES MARKED WITH AN ASTERISK * * * INDICATES "SEE FINISH PLAN AND ROOM FINISH SCHEDULE REMARKS FOR EXTENT OF FINISHES." MULTIPLE FINISHES IN ROOM.

WALL FINISH
BASE FINISH
FLOOR FINISH
EXTENTS OF ACCENT PAINT

FINISH 1
FINISH TRANSITION
FINISH 2

FINISH ABBREVIATIONS

FLOOR FINISH CODE ABBREVIATIONS

CPS	CARPET SHEET	**WAF**	WOOD ATHLETHIC FLOORING
LVT	LUXURY VINYL TILE	**WDF**	WOOD FLOORING
PC	POLISHED CONCRETE	**EM**	ENTRY MAT
PF	PERFORMANCE FLOORING (POLYMER PANEL)		
RSF	RESINOUS FLOORING		
RF	RUBBER FLOORING		
SC	SEALED CONCRETE		
TL	TILE		
TZ	TERRAZZO FLOORING		
QT	QUARRY TILE		

BASE FINISH CODE ABBREVIATIONS

RB	RESILIENT BASE
RSB	RESINOUS BASE
TLB	TILE BASE
QTB	QUARY TILE BASE

WALL FINISH CODES

AWP	ACOUTICAL WALL PANELS	**WC**	WALLCOVERING
FWP	FABRIC WRAPPED ACOUTISCAL PANELS	**WD**	WOOD
FRP	FIBERGLASS REINFORCED PANELS	**TL**	WALL TILE
P	PAINT		
PG	PARGE		
PX	PAINT, EPOXY		
SS	STAINLESS STEEL		

MISC. FINISH CODE ABBREVIATIONS

APC	ACOUSTICAL PANEL CEILING	**TP**	TOILET PARTITIONS
ES	EXPOSED STRUCTURE	**TB**	TACKBOARD
GWB	GYPSUM WALL BOARD	**WT**	WINDOW TREATMENT
GMB	GLASS MARKER BOARD		
MB	MARKER BOARD		
PL	PLASTIC LAMINATE		
SS	SOLID SURFACE MATERIAL		

FINISH FLOOR PATTERN PLAN LEGEND

CPS1	CARPET SHEET	**EM1**	ENTRY MAT
CPT1	CARPET TILE	**TZ1**	TERRAZZO FLOORING
LVT1	LVT FLOORING	**TZ2**	TERRAZZO FLOORING
PF1	PERFORMANCE FLOORING	**TZ3**	TERRAZZO FLOORING
RSF	RESINOUS FLOORING	**QT1**	QUARRY TILE
SC1	SEALED CONCRETE	**WAF1**	WOOD ATHLETHIC FLOORING
SC2	SEALED CONCRETE BLACK	**TL3**	WOOD TILE FLOORING

GENERAL FINISH NOTES

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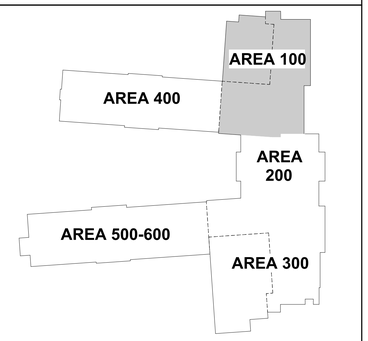
2



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ENERGY STAR PARTNER

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FLOOR FINISH PLAN - AREA 100

A-711

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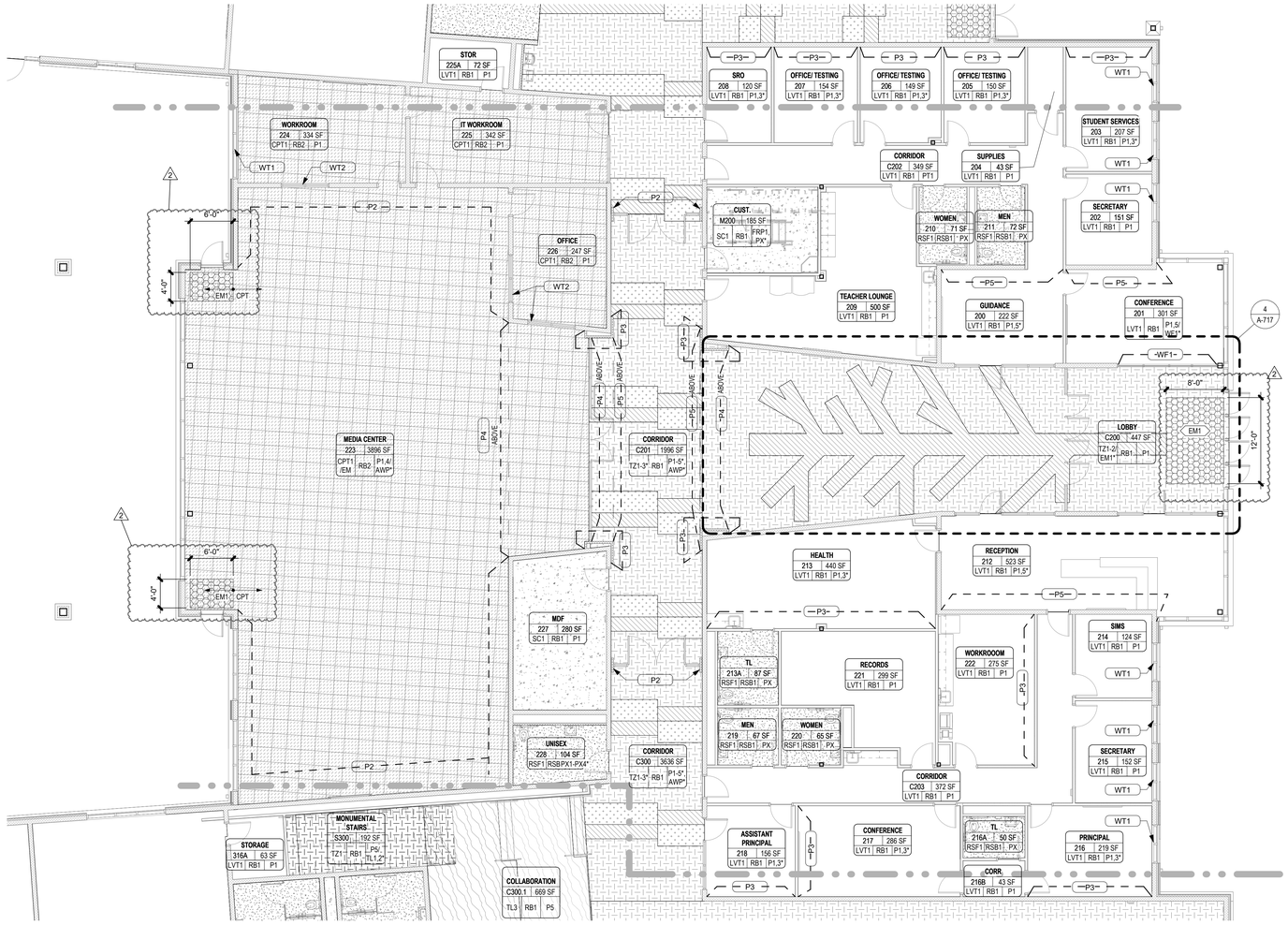
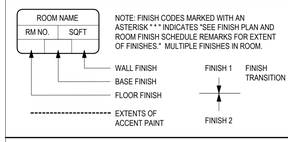


1 A-712 **FLOOR FINISH PLAN-AREA 200**

SCALE: 1/8" = 1'-0"

FINISH FLOOR PLAN LEGEND



NOTE: FINISH CODES MARKED WITH AN ASTERISK '*' INDICATES 'SEE FINISH PLAN AND ROOM FINISH SCHEDULE REMARKS FOR EXTENT OF FINISHES.' MULTIPLE FINISHES IN ROOM.

FINISH ABBREVIATIONS

FLOOR FINISH CODE ABBREVIATIONS

CPS	CARPET SHEET	**WAF**	WOOD ATHLETHIC FLOORING
LVT	LUXURY VINYL TILE	**WDF**	WOOD FLOORING
PC	POLISHED CONCRETE	**EM**	ENTRY MAT
PF	PERFORMANCE FLOORING (POLYMER PANEL)		
RSF	RESINOUS FLOORING		
RF	RUBBER FLOORING		
SC	SEALED CONCRETE		
TL	TILE		
TZ	TERRAZZO FLOORING		
QT	QUARRY TILE		

BASE FINISH CODE ABBREVIATIONS

RB	RESILIENT BASE
RSB	RESINOUS BASE
TLB	TILE BASE
QTB	QUARY TILE BASE

WALL FINISH CODES

AWP	ACOUTICAL WALL PANELS	**WC**	WALLCOVERING
FWP	FABRIC WRAPPED ACOUTISCAL PANELS	**WD**	WOOD
FRP	FIBERGLASS REINFORCED PANELS	**TL**	WALL TILE
P	PAINT		
PG	PARGE		
PX	PAINT, EPOXY		
SS	STAINLESS STEEL		

MISC. FINISH CODE ABBREVIATIONS

APC	ACOUSTICAL PANEL CEILING	**TP**	TOILET PARTITIONS
ES	EXPOSED STRUCTURE	**TB**	TACKBOARD
GWB	GYPSUM WALL BOARD	**WT**	WINDOW TREATMENT
GMB	GLASS MARKER BOARD		
MB	MARKER BOARD		
PL	PLASTIC LAMINATE		
SS	SOLID SURFACE MATERIAL		

FINISH FLOOR PATTERN PLAN LEGEND

CPS1	CARPET SHEET	**EM1**	ENTRY MAT
CPT1	CARPET TILE	**TZ1**	TERRAZZO FLOORING
LVT1	LVT FLOORING	**TZ2**	TERRAZZO FLOORING
PF1	PERFORMANCE FLOORING	**TZ3**	TERRAZZO FLOORING
RSF	RESINOUS FLOORING	**QT1**	QUARRY TILE
SC1	SEALED CONCRETE	**WAF1**	WOOD ATHLETHIC FLOORING
SC2	SEALED CONCRETE BLACK	**TL3**	WOOD TILE FLOORING

GENERAL FINISH NOTES

1. REFER TO THE FINISH LEGEND AND PLANS FOR ADDITIONAL INFORMATION.
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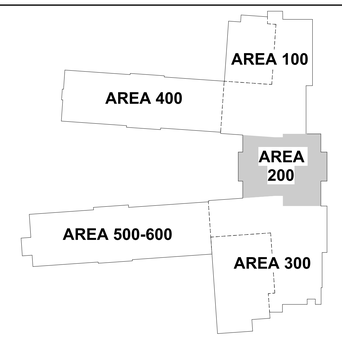

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ENERGY STAR PARTNER

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FLOOR FINISH PLAN - AREA 200

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1 A-713.1 **FLOOR FINISH PLAN-AREA 300 NORTH**
SCALE: 1/8" = 1'-0"

FINISH FLOOR PLAN LEGEND

ROOM NAME
RM NO. | SQFT

NOTE: FINISH CODES MARKED WITH AN ASTERISK "*" INDICATES "SEE FINISH PLAN AND ROOM FINISH SCHEDULE REMARKS FOR EXTENT OF FINISHES." MULTIPLE FINISHES IN ROOM.

WALL FINISH
BASE FINISH
FLOOR FINISH
EXTENTS OF ACCENT PAINT

FINISH 1 | FINISH TRANSITION | FINISH 2

FINISH ABBREVIATIONS

FLOOR FINISH CODE ABBREVIATIONS

CPS	CARPET SHEET	**WAF**	WOOD ATHLETHIC FLOORING
LVT	LUXURY VINYL TILE	**WDF**	WOOD FLOORING
PC	POLISHED CONCRETE	**EM**	ENTRY MAT
PF	PERFORMANCE FLOORING (POLYMER PANEL)		
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SC	SEALED CONCRETE		
TL	TILE		
TZ	TERRAZZO FLOORING		
QT	QUARRY TILE		

BASE FINISH CODE ABBREVIATIONS

RB	RESILIENT BASE
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WALL FINISH CODES

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APC	ACOUSTICAL PANEL CEILING	**TP**	TOILET PARTITIONS
ES	EXPOSED STRUCTURE	**TB**	TACKBOARD
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GMB	GLASS MARKER BOARD		
MB	MARKER BOARD		
PL	PLASTIC LAMINATE		
SS	SOLID SURFACE MATERIAL		

FINISH FLOOR PATTERN PLAN LEGEND

CPS1	CARPET SHEET	**EM1**	ENTRY MAT
CPT1	CARPET TILE	**TZ1**	TERRAZZO FLOORING
LVT1	LVT FLOORING	**TZ2**	TERRAZZO FLOORING
PF1	PERFORMANCE FLOORING	**TZ3**	TERRAZZO FLOORING
RSF	RESINOUS FLOORING	**QT1**	QUARRY TILE
SC1	SEALED CONCRETE	**WAF1**	WOOD ATHLETHIC FLOORING
SC2	SEALED CONCRETE BLACK	**TL3**	WOOD TILE FLOORING

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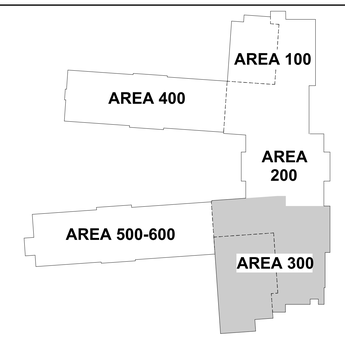

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ENERGY STAR PARTNER

No.	Date	Description
2	12-13-24	CD REVISIONS

ISSUE DATE: 11/08/24
PROJECT #: 02208.000
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FLOOR FINISH PLAN - AREA 300 NORTH

A-713.1

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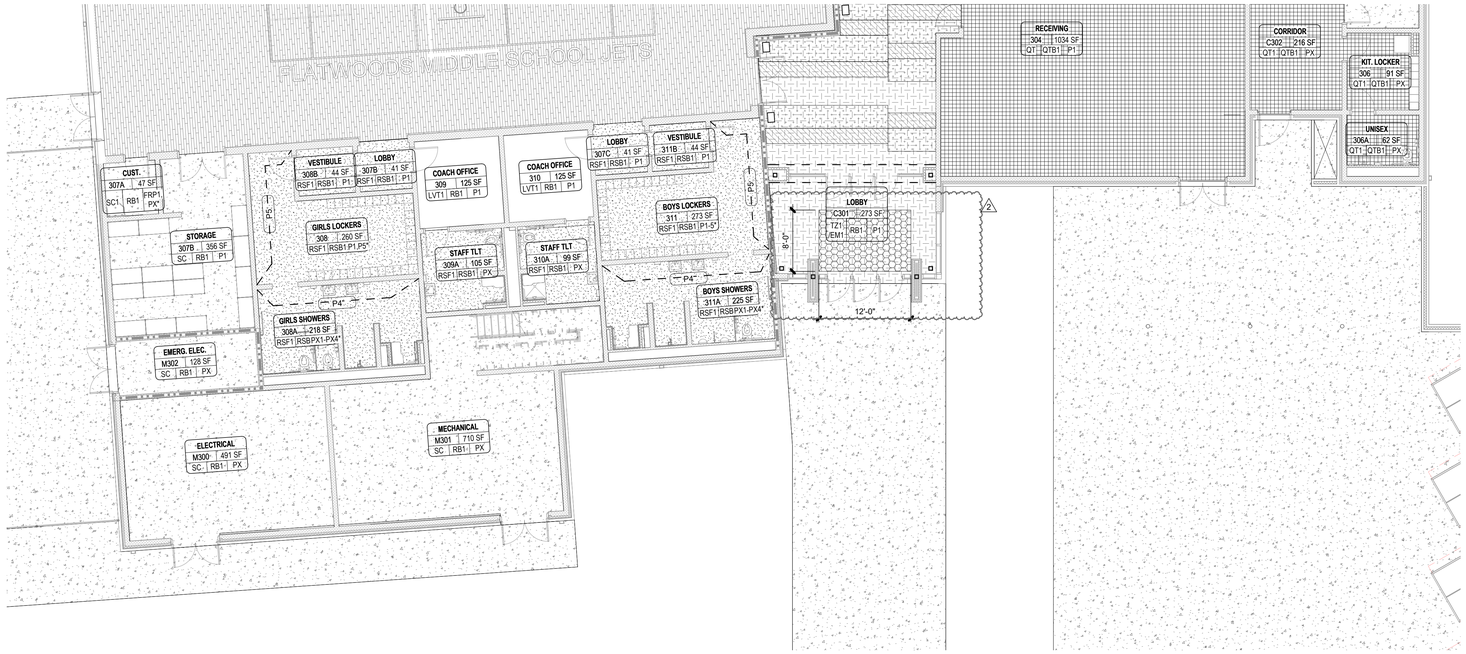

1 A-713.2 **FLOOR FINISH PLAN -AREA 300 SOUTH**
SCALE: 1/8" = 1'-0"

FINISH FLOOR PLAN LEGEND

ROOM NAME
RM NO. | SQFT

NOTE: FINISH CODES MARKED WITH AN ASTERISK '*' INDICATES 'SEE FINISH PLAN AND ROOM FINISH SCHEDULE REMARKS FOR EXTENT OF FINISHES.' MULTIPLE FINISHES IN ROOM.

- WALL FINISH
- BASE FINISH
- FLOOR FINISH
- EXTENTS OF ACCENT PAINT

FINISH 1 / FINISH TRANSITION / FINISH 2

FINISH ABBREVIATIONS

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APC	ACOUSTICAL PANEL CEILING	**TP**	TOILET PARTITIONS
ES	EXPOSED STRUCTURE	**TB**	TACKBOARD
GWB	GYPSUM WALL BOARD	**WT**	WINDOW TREATMENT
GMB	GLASS MARKER BOARD		
MB	MARKER BOARD		
PL	PLASTIC LAMINATE		
SS	SOLID SURFACE MATERIAL		

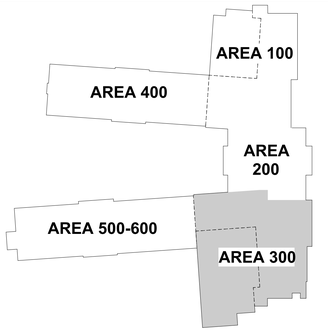
FINISH FLOOR PATTERN PLAN LEGEND

CPS1	CARPET SHEET	**EM1**	ENTRY MAT
CPT1	CARPET TILE	**TZ1**	TERRAZZO FLOORING
LVT1	LVT FLOORING	**TZ2**	TERRAZZO FLOORING
PF1	PERFORMANCE FLOORING	**TZ3**	TERRAZZO FLOORING
RSF	RESINOUS FLOORING	**QT1**	QUARRY TILE
SC1	SEALED CONCRETE	**WAF1**	WOOD ATHLETHIC FLOORING
SC2	SEALED CONCRETE BLACK	**TL3**	WOOD TILE FLOORING

GENERAL FINISH NOTES

1. REFER TO THE FINISH LEGEND AND PLANS FOR ADDITIONAL INFORMATION.
2. ALL FLOORING TRANSITIONS OCCUR AT THE CENTER OF THE UNDERSIDE OF THE DOOR UNLESS OTHERWISE NOTED.
3. IN SECONDARY STAIRWELLS, ALL EXPOSED HANDRAILS, STAIR PANS AND STRINGERS TO BE PAINTED **PX6**.
4. REFER TO INTERIOR ELEVATION SHEET FOR DETAILS AND TRANSITIONS OF WALL TILE, ACOUSTICAL WALL PANELS MARKER BOARDS AND TACKBOARDS.
5. A 1/16" DIVIDER STRIP CONTROL JOINT IS TO LOCATED IN THE TERRAZZO DIRECTLY ALIGNED WITH ALL CONCRETE FLOOR SLAB CONTROL JOINT LOCATIONS.
6. LINES WHERE COLOR CHANGE OCCURS IN THE TERRAZZO SHOULD BE SEPERATED WITH 1/8" METAL DIVIDER STRIPS.
7. MISC. EXPOSED HARDWARE INCLUDING BUT NOT LIMITED TO LOUVERS, GRATES OR TRIM ACCESSORIES, TO BE PAINTED TO MATCH ADJACENT WALL FINISH.
8. **ALL NEW INTERIOR FINISHES TO COMPLY WITH CHAPTER 8 OF THE 2018 NC BUILDING AND FIRE CODES. REFER TO SPECIFICATIONS FOR CLASS RATINGS FOR EACH FINISH MATERIAL.**
9. PAINT **P1** IN ALL LOCATIONS U.N.O.
10. EPOXY PAINT TYPICAL AT ALL FOOD PREP ROOMS, ROOMS THAT ARE APART OF FOOD PREP ROOMS, CAFETERIA, RESTROOMS, JANITOR CLOSETS, UTILITY ROOMS AND STAIRWELLS.
11. ALL HOLLOW METAL DOOR FRAMES AND WINDOWS TO BE PAINTED **P6** UNLESS NOTED OTHERWISE.
12. EXPOSED COLUMS TO BE **PX6** UNLESS OTHERWISE NOTED.
13. PAINT COLORS DESIGNATED AT BULKHEADS TO BE APPLIED TO ENTIRE VERTICAL AND HORIZONTAL FACES, UNLESS NOTED OTHERWISE IN RCP AND ELEVATIONS.
14. ALL EXPOSED STRUCTURE, MEP EQUIPMENT/ACCESSORIES, CEILING WIRES, ETC PAINTED **PX6.**
15. EXPOSED DECKING TO RECEIVE **PX** PAINT. GLULAMS ARE NOT TO RECEIVE PAINT. PROTECT DURING CONSTRUCTION.

2



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ENERGY STAR PARTNER

No.	Date	Description
2	12-13-24	CD REVISIONS

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FLOOR FINISH PLAN - AREA 300 SOUTH

A-713.2

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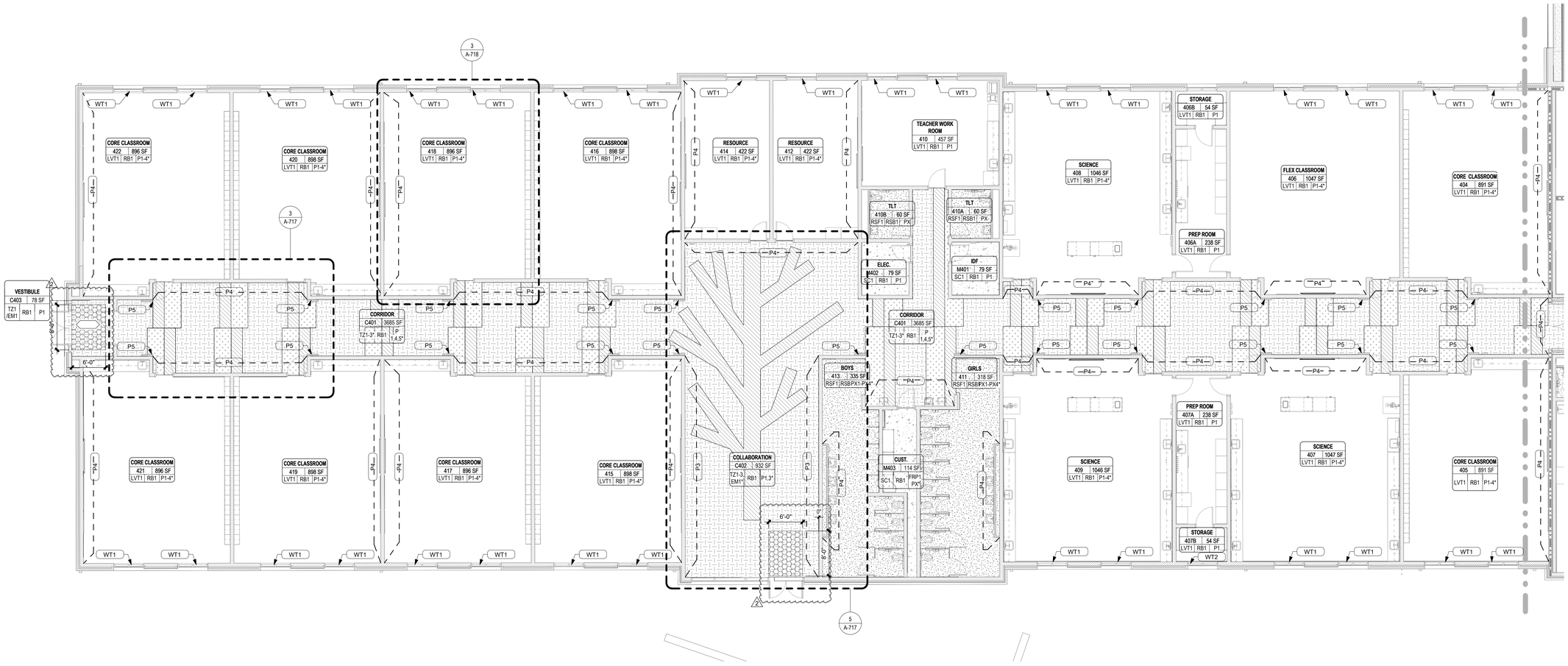

1 A-714 FLOOR FINISH PLAN-AREA 400

SCALE: 1/8" = 1'-0"

FINISH FLOOR PLAN LEGEND

ROOM NAME | RM NO. | SQFT

NOTE: FINISH CODES MARKED WITH AN ASTERISK " * " INDICATES "SEE FINISH PLAN AND ROOM FINISH SCHEDULE REMARKS FOR EXTENT OF FINISHES." MULTIPLE FINISHES IN ROOM.

WALL FINISH
BASE FINISH
FLOOR FINISH
EXTENTS OF ACCENT PAINT
FINISH 1
FINISH 2
FINISH TRANSITION

FINISH ABBREVIATIONS

FLOOR FINISH CODE ABBREVIATIONS

CPT	CARPET TILE	**WAF**	WOOD ATHLETHIC FLOORING
LVT	LUXURY VINYL TILE	**WDF**	WOOD FLOORING
PC	POLISHED CONCRETE	**EM**	ENTRY MAT
RSF	RESINOUS FLOORING		
RF	RUBBER FLOORING		
SC	SEALED CONCRETE		
TL	TILE		
TZ	TERRAZZO FLOORING		
QT	QUARRY TILE		

WALL FINISH CODES

AWP	ACOUTICAL WALL PANELS
FWP	FABRIC WRAPPED ACOUTISCAL PANELS
FRP	FIBERGLASS REINFORCED PANELS
P	PAINT
SS	STAINLESS STEEL
WC	WALLCOVERING
WD	WOOD
TL	WALL TILE

BASE FINISH CODE ABBREVIATIONS

RB	RUBBER BASE
RSB	RESINOUS BASE
TLB	TILE BASE
QTB	QUARRY TILE BASE

MISC. FINISH CODE ABBREVIATIONS

APC	ACOUSTICAL PANEL CEILING	**TP**	TOILET PARTITIONS
ES	EXPOSED STRUCTURE	**TB**	TACKBOARD
GWB	GYPSUM WALL BOARD	**WT**	WINDOW TREATMENT
GMB	GLASS MARKER BOARD		
MB	MARKER BOARD		
PL	PLASTIC LAMINATE		
SS	SOLID SURFACE MATERIAL		

FINISH FLOOR PATTERN PLAN LEGEND

CPS1	CARPET SHEET	**TZ1**	TERRAZZO FLOORING
LVT1	LVT FLOORING	**TZ2**	TERRAZZO FLOORING
PF1	PERFORMANCE FLOORING	**TZ3**	TERRAZZO FLOORING
RSF	RESINOUS FLOORING	**QT1**	QUARRY TILE
SC1	SEALED CONCRETE	**WAF1**	WOOD ATHLETHIC FLOORING
SC2	SEALED CONCRETE BLACK	**WDF1**	WOOD FLOORING
EM1	ENTRY MAT		

GENERAL FINISH NOTES

1. REFER TO THE FINISH LEGEND AND PLANS FOR ADDITIONAL INFORMATION.
2. ALL FLOORING TRANSITIONS OCCUR AT THE CENTER OF THE UNDERSIDE OF THE DOOR UNLESS OTHERWISE NOTED.
3. IN SECONDARY STAIRWELLS, ALL EXPOSED HANDRAILS, STAIR PANS AND STRINGERS TO BE PAINTED **PX6**.
4. REFER TO INTERIOR ELEVATION SHEET FOR DETAILS AND TRANSITIONS OF WALL TILE, ACOUSTICAL WALL PANELS MARKER BOARDS AND TACKBOARDS.
5. A 1/16" DIVIDER STRIP CONTROL JOINT IS TO LOCATED IN THE TERRAZZO DIRECTLY ALIGNED WITH ALL CONCRETE FLOOR SLAB CONTROL JOINT LOCATIONS.
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8. **ALL NEW INTERIOR FINISHES TO COMPLY WITH CHAPTER 8 OF THE 2018 NC BUILDING AND FIRE CODES. REFER TO SPECIFICATIONS FOR CLASS RATINGS FOR EACH FINISH MATERIAL.**
9. PAINT **P1** IN ALL LOCATIONS U.N.O.
10. EPOXY PAINT TYPICAL AT ALL FOOD PREP ROOMS, ROOMS THAT ARE APART OF FOOD PREP ROOMS, CAFETERIA, RESTROOMS, JANITOR CLOSETS, UTILITY ROOMS AND STAIRWELLS.
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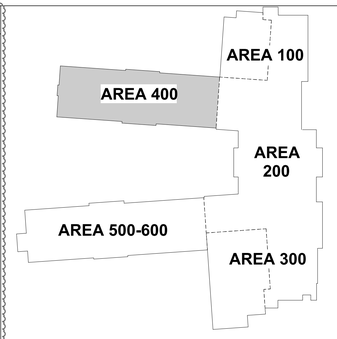

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FLOOR FINISH PLAN - AREA 400

A-714

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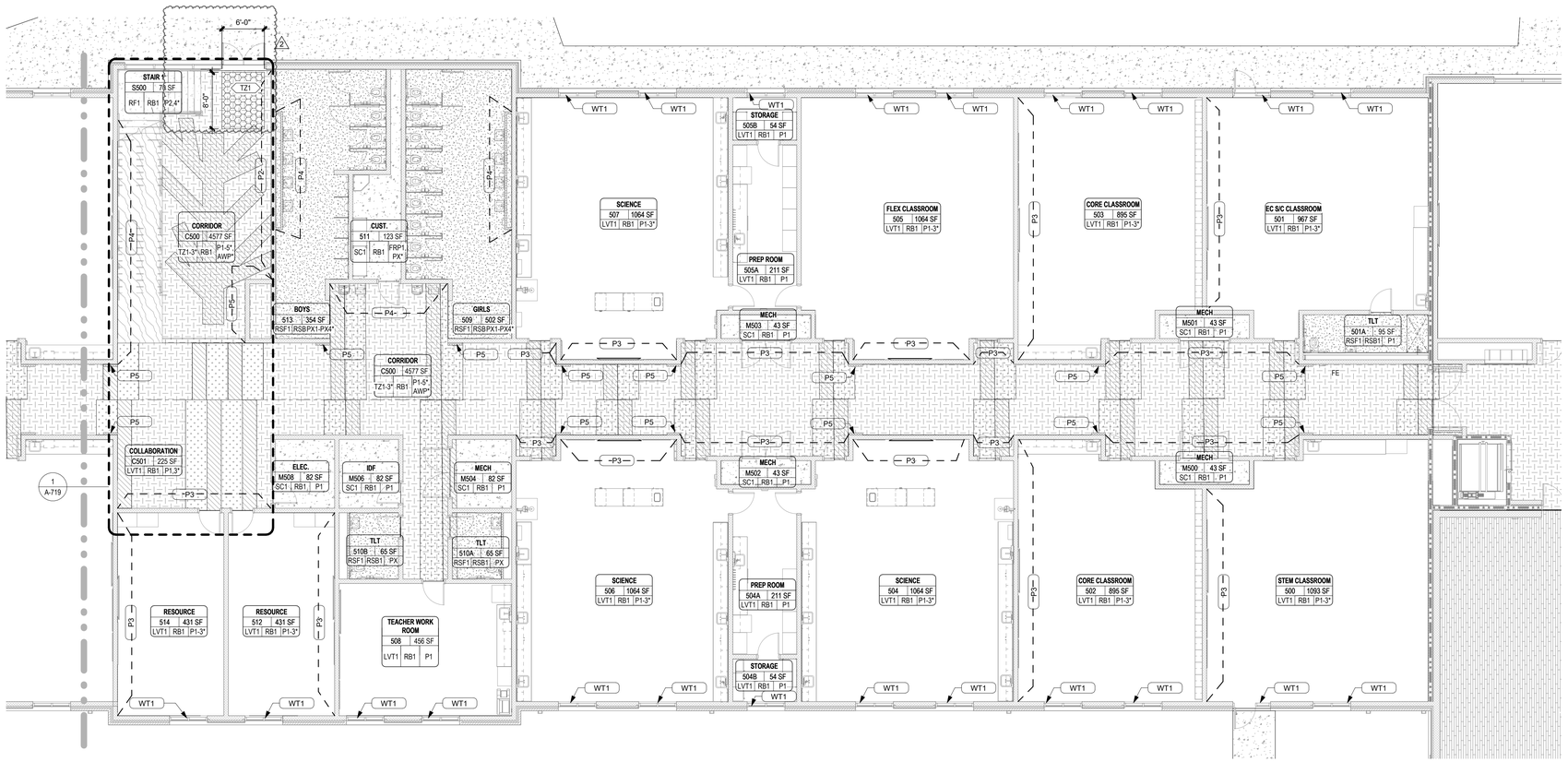

1 A-715.1 **FLOOR FINISH PLAN -AREA 500 EAST**

SCALE: 1/8" = 1'-0"

FINISH FLOOR PLAN LEGEND

ROOM NAME
RM NO. | SQFT

NOTE: FINISH CODES MARKED WITH AN ASTERISK '*' INDICATES 'SEE FINISH PLAN AND ROOM FINISH SCHEDULE REMARKS FOR EXTENT OF FINISHES.' MULTIPLE FINISHES IN ROOM.

- WALL FINISH
- BASE FINISH
- FLOOR FINISH
- EXTENTS OF ACCENT PAINT

FINISH 1 / FINISH 2 — FINISH TRANSITION

FINISH ABBREVIATIONS

FLOOR FINISH CODE ABBREVIATIONS

CPS	CARPET SHEET	**WAF**	WOOD ATHLETHIC FLOORING
LVT	LUXURY VINYL TILE	**WDF**	WOOD FLOORING
PC	POLISHED CONCRETE	**EM**	ENTRY MAT
PF	PERFORMANCE FLOORING (POLYMER PANEL)		
RSF	RESINOUS FLOORING		
RF	RUBBER FLOORING		
SC	SEALED CONCRETE		
TL	TILE		
TZ	TERRAZZO FLOORING		
QT	QUARRY TILE		

BASE FINISH CODE ABBREVIATIONS

RB	RESILIENT BASE
RSB	RESINOUS BASE
TLB	TILE BASE
QTB	QUARY TILE BASE

WALL FINISH CODES

AWP	ACOUTICAL WALL PANELS	**WC**	WALLCOVERING
FWP	FABRIC WRAPPED ACOUTISCAL PANELS	**WD**	WOOD
FRP	FIBERGLASS REINFORCED PANELS	**TL**	WALL TILE
P	PAINT		
PG	PARGE		
PX	PAINT, EPOXY		
SS	STAINLESS STEEL		

MISC. FINISH CODE ABBREVIATIONS

APC	ACOUSTICAL PANEL CEILING	**TP**	TOILET PARTITIONS
ES	EXPOSED STRUCTURE	**TB**	TACKBOARD
GWB	GYPSUM WALL BOARD	**WT**	WINDOW TREATMENT
GMB	GLASS MARKER BOARD		
MB	MARKER BOARD		
PL	PLASTIC LAMINATE		
SS	SOLID SURFACE MATERIAL		

FINISH FLOOR PATTERN PLAN LEGEND

CPS1	CARPET SHEET	**EM1**	ENTRY MAT
CPT1	CARPET TILE	**TZ1**	TERRAZZO FLOORING
LVT1	LVT FLOORING	**TZ2**	TERRAZZO FLOORING
PF1	PERFORMANCE FLOORING	**TZ3**	TERRAZZO FLOORING
RSF	RESINOUS FLOORING	**QT1**	QUARRY TILE
SC1	SEALED CONCRETE	**WAF1**	WOOD ATHLETHIC FLOORING
SC2	SEALED CONCRETE BLACK	**TL3**	WOOD TILE FLOORING

GENERAL FINISH NOTES

1. REFER TO THE FINISH LEGEND AND PLANS FOR ADDITIONAL INFORMATION.
2. ALL FLOORING TRANSITIONS OCCUR AT THE CENTER OF THE UNDERSIDE OF THE DOOR UNLESS OTHERWISE NOTED.
3. IN SECONDARY STAIRWELLS, ALL EXPOSED HANDRAILS, STAIR PANS AND STRINGERS TO BE PAINTED **PX6**.
4. REFER TO INTERIOR ELEVATION SHEET FOR DETAILS AND TRANSITIONS OF WALL TILE, ACOUSTICAL WALL PANELS MARKER BOARDS AND TACKBOARDS.
5. A 1/16" DIVIDER STRIP CONTROL JOINT IS TO LOCATED IN THE TERRAZZO DIRECTLY ALIGNED WITH ALL CONCRETE FLOOR SLAB CONTROL JOINT LOCATIONS.
6. LINES WHERE COLOR CHANGE OCCURS IN THE TERRAZZO SHOULD BE SEPERATED WITH 1/8" METAL DIVIDER STRIPS.
7. MISC. EXPOSED HARDWARE INCLUDING BUT NOT LIMITED TO LOUVERS, GRATES OR TRIM ACCESSORIES, TO BE PAINTED TO MATCH ADJACENT WALL FINISH.
8. **ALL NEW INTERIOR FINISHES TO COMPLY WITH CHAPTER 8 OF THE 2018 NC BUILDING AND FIRE CODES. REFER TO SPECIFICATIONS FOR CLASS RATINGS FOR EACH FINISH MATERIAL.**
9. PAINT **P1** IN ALL LOCATIONS U.N.O.
10. EPOXY PAINT TYPICAL AT ALL FOOD PREP ROOMS, ROOMS THAT ARE APART OF FOOD PREP ROOMS, CAFETERIA, RESTROOMS, JANITOR CLOSETS, UTILITY ROOMS AND STAIRWELLS.
11. ALL HOLLOW METAL DOOR FRAMES AND WINDOWS TO BE PAINTED **P6** UNLESS NOTED OTHERWISE.
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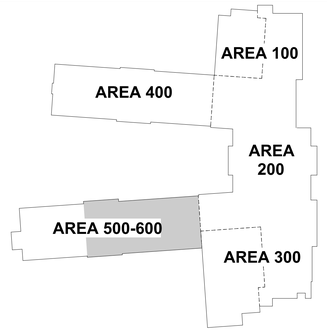
14. ALL EXPOSED STRUCTURE, MEP EQUIPMENT/ACCESSORIES, CEILING WIRES, ETC PAINTED **PX6.**
15. EXPOSED DECKING TO RECEIVE **PX** PAINT. GLULAMS ARE NOT TO RECEIVE PAINT. PROTECT DURING CONSTRUCTION.



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FLOOR FINISH PLAN - AREA 500 EAST

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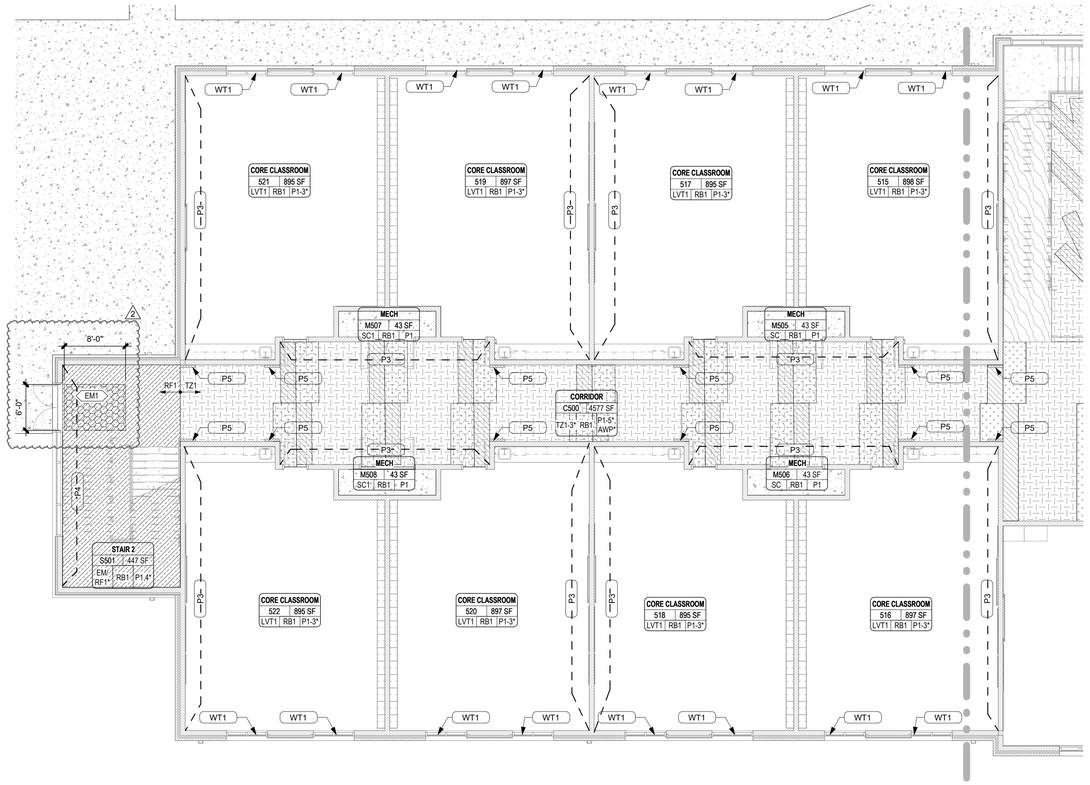

1 A-715.2 **FLOOR FINISH PLAN - AREA 500 WEST**

SCALE: 1/8" = 1'-0"

FINISH FLOOR PLAN LEGEND

ROOM NAME | RM NO. | SQFT

NOTE: FINISH CODES MARKED WITH AN ASTERISK " * " INDICATES "SEE FINISH PLAN AND ROOM FINISH SCHEDULE REMARKS FOR EXTENT OF FINISHES." MULTIPLE FINISHES IN ROOM.

WALL FINISH
BASE FINISH
FLOOR FINISH
EXTENTS OF ACCENT PAINT

FINISH 1
FINISH TRANSITION
FINISH 2

FINISH ABBREVIATIONS

FLOOR FINISH CODE ABBREVIATIONS

CPS	CARPET SHEET	**WAF**	WOOD ATHLETHIC FLOORING
LVT	LUXURY VINYL TILE	**WDF**	WOOD FLOORING
PC	POLISHED CONCRETE	**EM**	ENTRY MAT
PF	PERFORMANCE FLOORING (POLYMER PANEL)		
RSF	RESINOUS FLOORING		
RF	RUBBER FLOORING		
SC	SEALED CONCRETE		
TL	TILE		
TZ	TERRAZZO FLOORING		
QT	QUARRY TILE		

BASE FINISH CODE ABBREVIATIONS

RB	RESILIENT BASE
RSB	RESINOUS BASE
TLB	TILE BASE
QTB	QUARRY TILE BASE

WALL FINISH CODES

AWP	ACOUTICAL WALL PANELS	**WC**	WALLCOVERING
FWP	FABRIC WRAPPED ACOUTISCAL PANELS	**WD**	WOOD
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PG	PARGE		
PX	PAINT, EPOXY		
SS	STAINLESS STEEL		

MISC. FINISH CODE ABBREVIATIONS

APC	ACOUSTICAL PANEL CEILING	**TP**	TOILET PARTITIONS
ES	EXPOSED STRUCTURE	**TB**	TACKBOARD
GWB	GYPSUM WALL BOARD	**WT**	WINDOW TREATMENT
GMB	GLASS MARKER BOARD		
MB	MARKER BOARD		
PL	PLASTIC LAMINATE		
SS	SOLID SURFACE MATERIAL		

FINISH FLOOR PATTERN PLAN LEGEND

CPS1	CARPET SHEET	**EM1**	ENTRY MAT
CPT1	CARPET TILE	**TZ1**	TERRAZZO FLOORING
LVT1	LVT FLOORING	**TZ2**	TERRAZZO FLOORING
PF1	PERFORMANCE FLOORING	**TZ3**	TERRAZZO FLOORING
RSF	RESINOUS FLOORING	**QT1**	QUARRY TILE
SC1	SEALED CONCRETE	**WAF1**	WOOD ATHLETHIC FLOORING
SC2	SEALED CONCRETE BLACK	**TL3**	WOOD TILE FLOORING

GENERAL FINISH NOTES

1. REFER TO THE FINISH LEGEND AND PLANS FOR ADDITIONAL INFORMATION.
2. ALL FLOORING TRANSITIONS OCCUR AT THE CENTER OF THE UNDERSIDE OF THE DOOR UNLESS OTHERWISE NOTED.
3. IN SECONDARY STAIRWELLS, ALL EXPOSED HANDRAILS, STAIR PANS AND STRINGERS TO BE PAINTED **PX6**.
4. REFER TO INTERIOR ELEVATION SHEET FOR DETAILS AND TRANSITIONS OF WALL TILE, ACOUSTICAL WALL PANELS MARKER BOARDS AND TACKBOARDS.
5. A 1/16" DIVIDER STRIP CONTROL JOINT IS TO LOCATED IN THE TERRAZZO DIRECTLY ALIGNED WITH ALL CONCRETE FLOOR SLAB CONTROL JOINT LOCATIONS.
6. LINES WHERE COLOR CHANGE OCCURS IN THE TERRAZZO SHOULD BE SEPERATED WITH 1/8" METAL DIVIDER STRIPS.
7. MISC. EXPOSED HARDWARE INCLUDING BUT NOT LIMITED TO LOUVERS, GRATES OR TRIM ACCESSORIES, TO BE PAINTED TO MATCH ADJACENT WALL FINISH.
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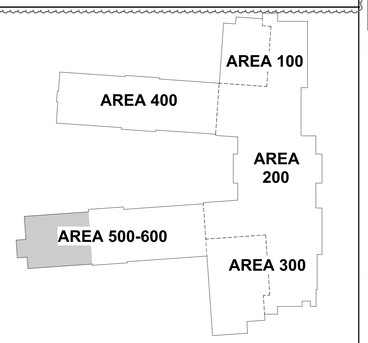

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FLOOR FINISH PLAN -AREA 500 WEST

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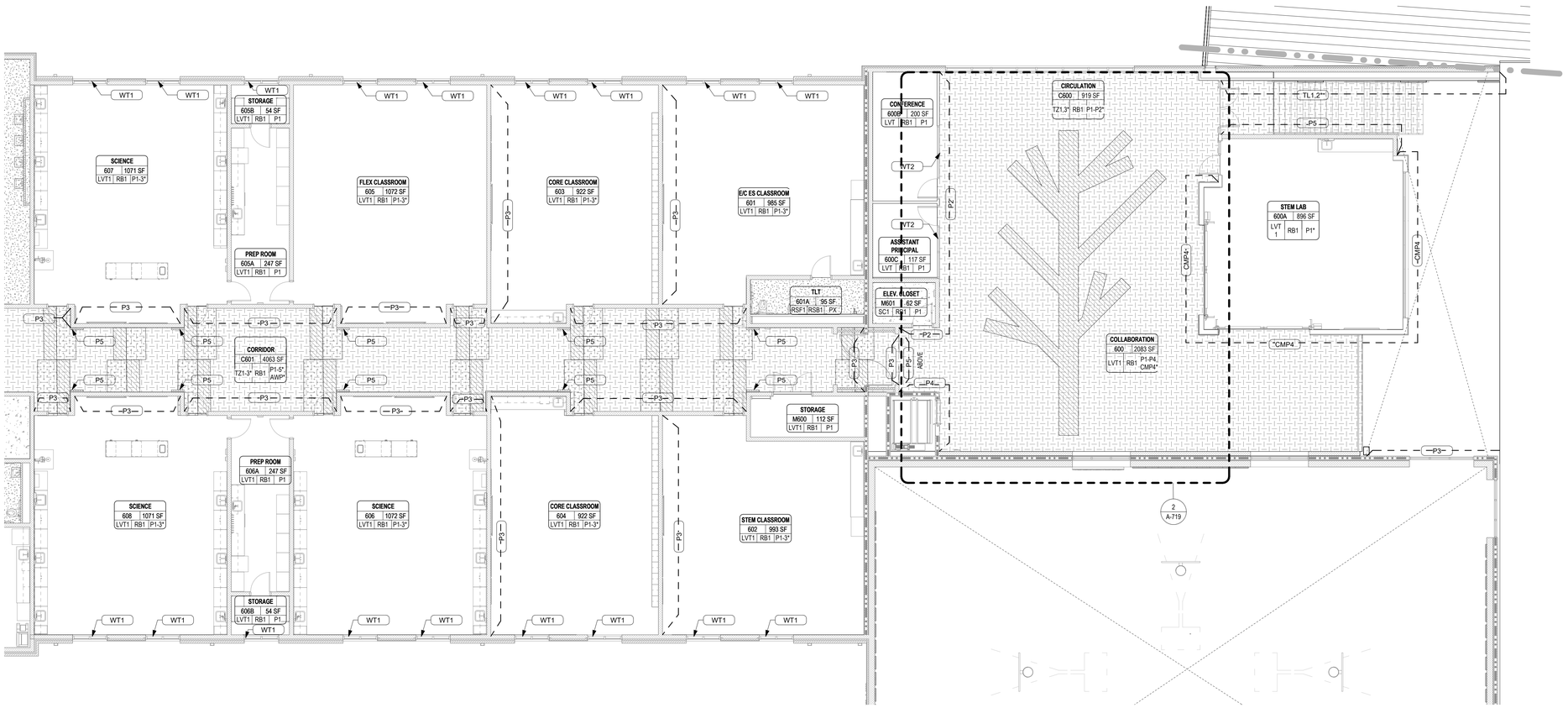

1 A-716.1 FLOOR FINISH PLAN - AREA 600 EAST

SCALE: 1/8" = 1'-0"

FINISH FLOOR PLAN LEGEND

ROOM NAME | RM NO. | SQFT

WALL FINISH
BASE FINISH
FLOOR FINISH
EXTENTS OF ACCENT PAINT

NOTE: FINISH CODES MARKED WITH AN ASTERISK '*' INDICATES 'SEE FINISH PLAN AND ROOM FINISH SCHEDULE REMARKS FOR EXTENT OF FINISHES.' MULTIPLE FINISHES IN ROOM.

FINISH 1 / FINISH TRANSITION / FINISH 2

FINISH ABBREVIATIONS

FLOOR FINISH CODE ABBREVIATIONS

CPS	CARPET SHEET	**WAF**	WOOD ATHLETHIC FLOORING
LVT	LUXURY VINYL TILE	**WDF**	WOOD FLOORING
PC	POLISHED CONCRETE	**EM**	ENTRY MAT
PF	PERFORMANCE FLOORING (POLYMER PANEL)		
RSF	RESINOUS FLOORING		
RF	RUBBER FLOORING		
SC	SEALED CONCRETE		
TL	TILE		
TZ	TERRAZZO FLOORING		
QT	QUARRY TILE		

BASE FINISH CODE ABBREVIATIONS

RB	RESILIENT BASE
RSB	RESINOUS BASE
TLB	TILE BASE
QTB	QUARY TILE BASE

WALL FINISH CODES

AWP	ACOUTICAL WALL PANELS	**WC**	WALLCOVERING
FWP	FABRIC WRAPPED ACOUTISCAL PANELS	**WD**	WOOD
FRP	FIBERGLASS REINFORCED PANELS	**TL**	WALL TILE
P	PAINT		
PG	PARGE		
PX	PAINT, EPOXY		
SS	STAINLESS STEEL		

MISC. FINISH CODE ABBREVIATIONS

APC	ACOUSTICAL PANEL CEILING	**TP**	TOILET PARTITIONS
ES	EXPOSED STRUCTURE	**TB**	TACKBOARD
GWB	GYPSUM WALL BOARD	**WT**	WINDOW TREATMENT
GMB	GLASS MARKER BOARD		
MB	MARKER BOARD		
PL	PLASTIC LAMINATE		
SS	SOLID SURFACE MATERIAL		

FINISH FLOOR PATTERN PLAN LEGEND

CPS1	CARPET SHEET	**EM1**	ENTRY MAT
CPT1	CARPET TILE	**TZ1**	TERRAZZO FLOORING
LVT1	LVT FLOORING	**TZ2**	TERRAZZO FLOORING
PF1	PERFORMANCE FLOORING	**TZ3**	TERRAZZO FLOORING
RSF	RESINOUS FLOORING	**QT1**	QUARRY TILE
SC1	SEALED CONCRETE	**WAF1**	WOOD ATHLETHIC FLOORING
SC2	SEALED CONCRETE BLACK	**TL3**	WOOD TILE FLOORING

GENERAL FINISH NOTES

1. REFER TO THE FINISH LEGEND AND PLANS FOR ADDITIONAL INFORMATION.
2. ALL FLOORING TRANSITIONS OCCUR AT THE CENTER OF THE UNDERSIDE OF THE DOOR UNLESS OTHERWISE NOTED.
3. IN SECONDARY STAIRWELLS, ALL EXPOSED HANDRAILS, STAIR PANS AND STRINGERS TO BE PAINTED **PX6**.
4. REFER TO INTERIOR ELEVATION SHEET FOR DETAILS AND TRANSITIONS OF WALL TILE, ACOUSTICAL WALL PANELS MARKER BOARDS AND TACKBOARDS.
5. A 1/16" DIVIDER STRIP CONTROL JOINT IS TO LOCATED IN THE TERRAZZO DIRECTLY ALIGNED WITH ALL CONCRETE FLOOR SLAB CONTROL JOINT LOCATIONS.
6. LINES WHERE COLOR CHANGE OCCURS IN THE TERRAZZO SHOULD BE SEPERATED WITH 1/8" METAL DIVIDER STRIPS.
7. MISC. EXPOSED HARDWARE INCLUDING BUT NOT LIMITED TO LOUVERS, GRATES OR TRIM ACCESSORIES, TO BE PAINTED TO MATCH ADJACENT WALL FINISH.
8. **ALL NEW INTERIOR FINISHES TO COMPLY WITH CHAPTER 8 OF THE 2018 NC BUILDING AND FIRE CODES. REFER TO SPECIFICATIONS FOR CLASS RATINGS FOR EACH FINISH MATERIAL.**
9. PAINT **P1** IN ALL LOCATIONS U.N.O.
10. EPOXY PAINT TYPICAL AT ALL FOOD PREP ROOMS, ROOMS THAT ARE APART OF FOOD PREP ROOMS, CAFETERIA, RESTROOMS, JANITOR CLOSETS, UTILITY ROOMS AND STAIRWELLS.
11. ALL HOLLOW METAL DOOR FRAMES AND WINDOWS TO BE PAINTED **P6** UNLESS NOTED OTHERWISE.
12. EXPOSED COLUMS TO BE **PX6** UNLESS OTHERWISE NOTED.
13. PAINT COLORS DESIGNATED AT BULKHEADS TO BE APPLIED TO ENTIRE VERTICAL AND HORIZONTAL FACES, UNLESS NOTED OTHERWISE IN RCP AND ELEVATIONS.
14. ALL EXPOSED STRUCTURE, MEP EQUIPMENT/ACCESSORIES, CEILING WIRES, ETC PAINTED **PX6.**
15. EXPOSED DECKING TO RECEIVE **PX** PAINT. GLULAMS ARE NOT TO RECEIVE PAINT. PROTECT DURING CONSTRUCTION.

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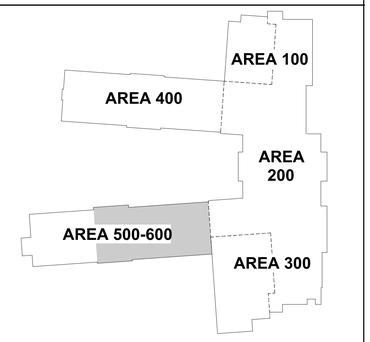

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FLOOR FINISH PLAN - AREA 600 EAST

A-716.1

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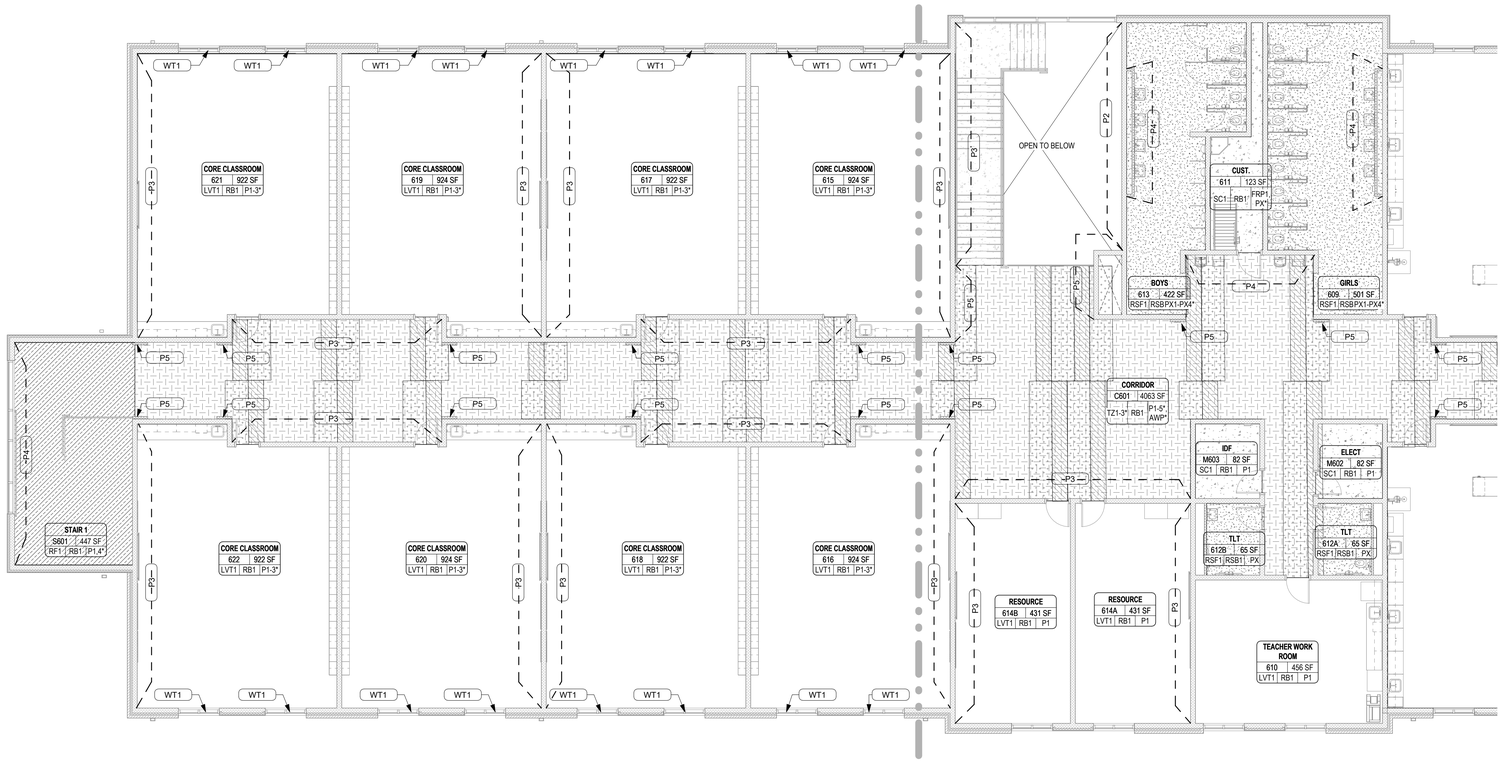

1 A-716.2 **FLOOR FINISH PLAN -AREA 600 WEST**

SCALE: 1/8" = 1'-0"

FINISH FLOOR PLAN LEGEND

ROOM NAME | RM NO. | SQFT

NOTE: FINISH CODES MARKED WITH AN ASTERISK * * * INDICATES "SEE FINISH PLAN AND ROOM FINISH SCHEDULE REMARKS FOR EXTENT OF FINISHES." MULTIPLE FINISHES IN ROOM.

WALL FINISH
BASE FINISH
FLOOR FINISH
EXTENTS OF ACCENT PAINT

FINISH 1 / FINISH TRANSITION / FINISH 2

FINISH ABBREVIATIONS

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GMB	GLASS MARKER BOARD		
MB	MARKER BOARD		
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CPT1	CARPET TILE	**TZ1**	TERRAZZO FLOORING
LVT1	LVT FLOORING	**TZ2**	TERRAZZO FLOORING
PF1	PERFORMANCE FLOORING	**TZ3**	TERRAZZO FLOORING
RSF	RESINOUS FLOORING	**QT1**	QUARRY TILE
SC1	SEALED CONCRETE	**WAF1**	WOOD ATHLETHIC FLOORING
SC2	SEALED CONCRETE BLACK	**TL3**	WOOD TILE FLOORING

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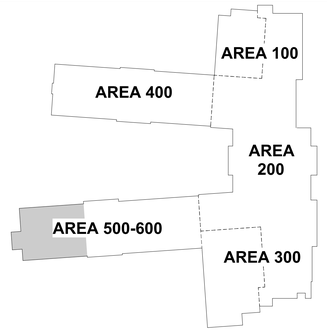
2



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FLOOR FINISH PLAN -AREA 600 WEST

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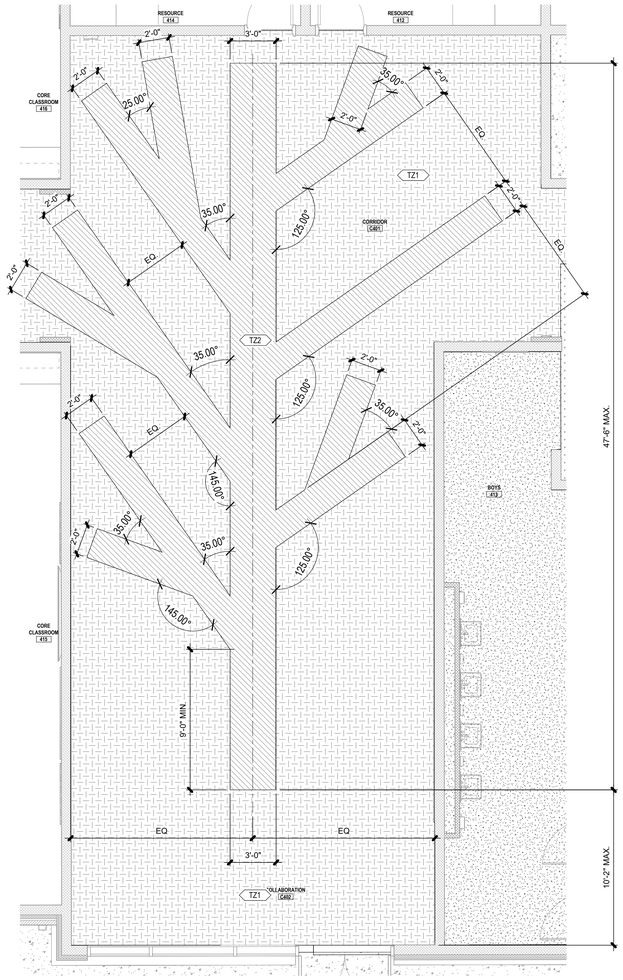
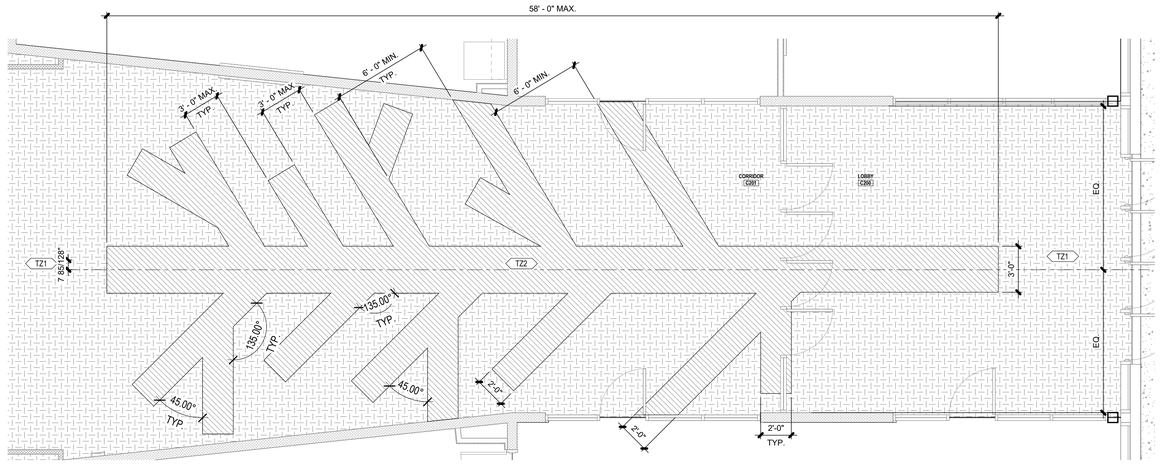


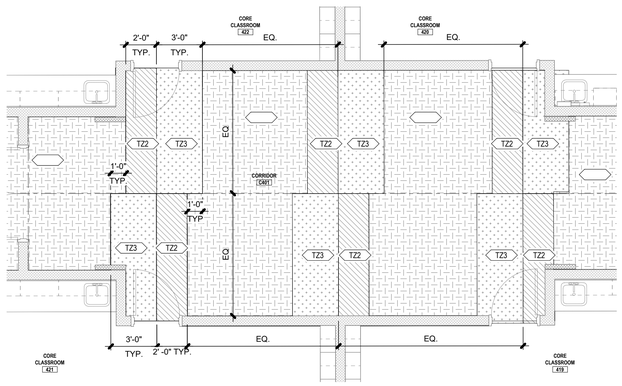
5 A-717 COLLABORATION C402TERRAZZO TREE DETAILS

SCALE: 1/4" = 1'-0"



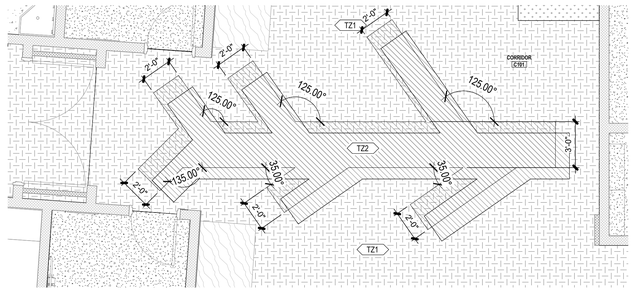
4 A-717 LOBBY C200 TERRAZZO TREE DETAILS

SCALE: 1/4" = 1'-0"



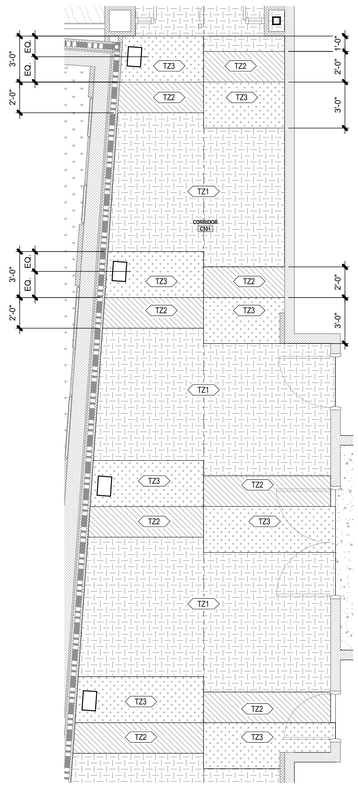
3 A-717 TYP. CORRIDOR C401/C500/C601 ACCENT TERRAZZO DETAILS

SCALE: 1/4" = 1'-0"



2 A-717 CORRIDOR C101 TERRAZZO TREE DETAILS

SCALE: 1/4" = 1'-0"



1 A-717 TYP CORRIDOR 100 AND 300 ACCENT TERRAZZO DETAILS

SCALE: 1/4" = 1'-0"

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FINISH PLAN DETAILS

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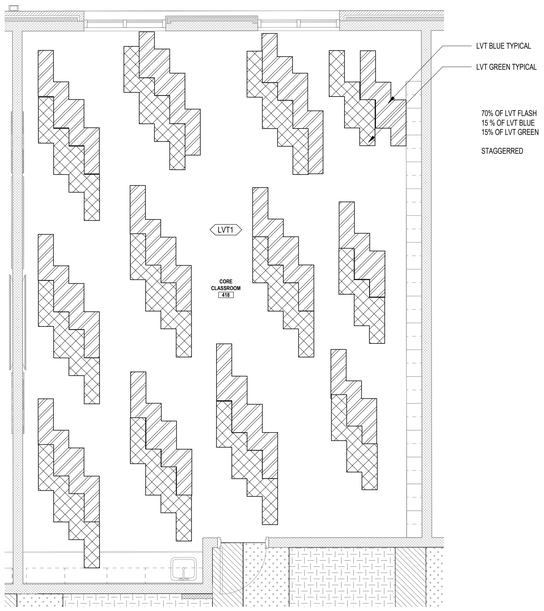

3 A-718 **TYP. LVT LAYOUT IN ALL CLASSROOMS**
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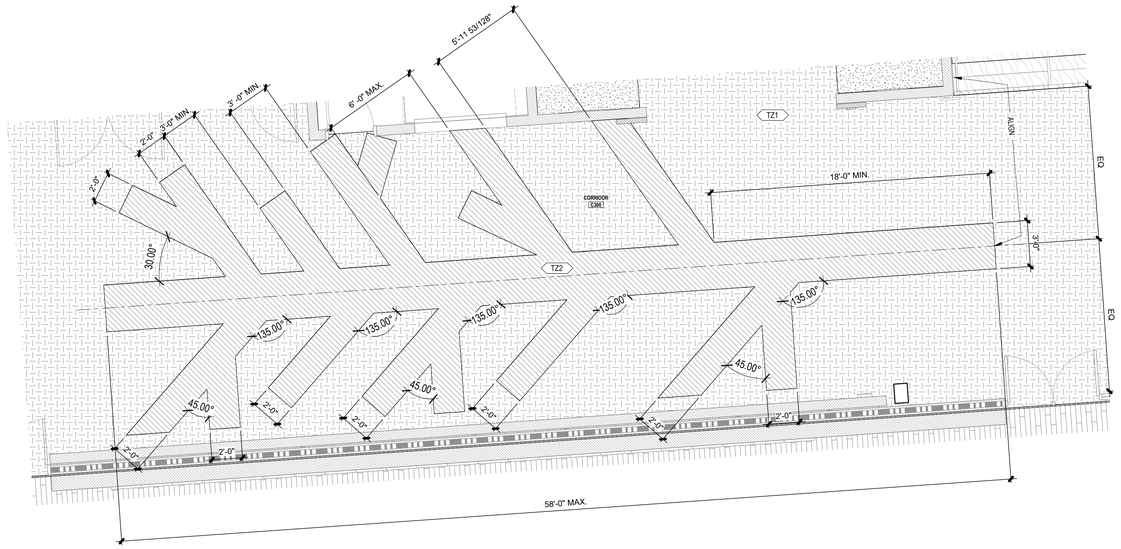
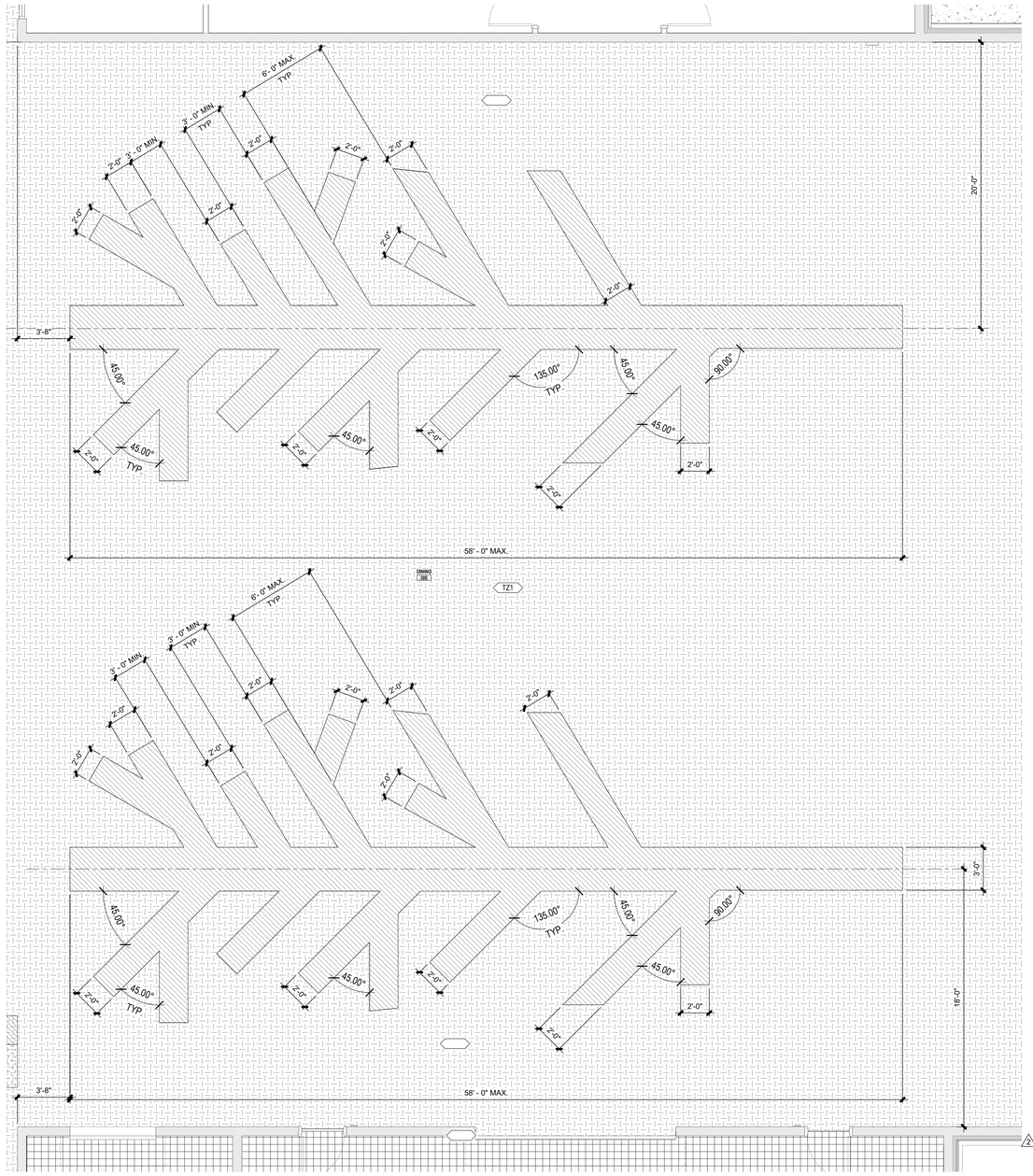


2 A-718 **CORRIDOR C300 TERRAZZO TREE DETAILS**
SCALE: 1/4" = 1'-0"



1 A-718 **DINING 300 TERRAZZO TREE DETAILS**
SCALE: 1/4" = 1'-0"

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FINISH PLAN DETAILS

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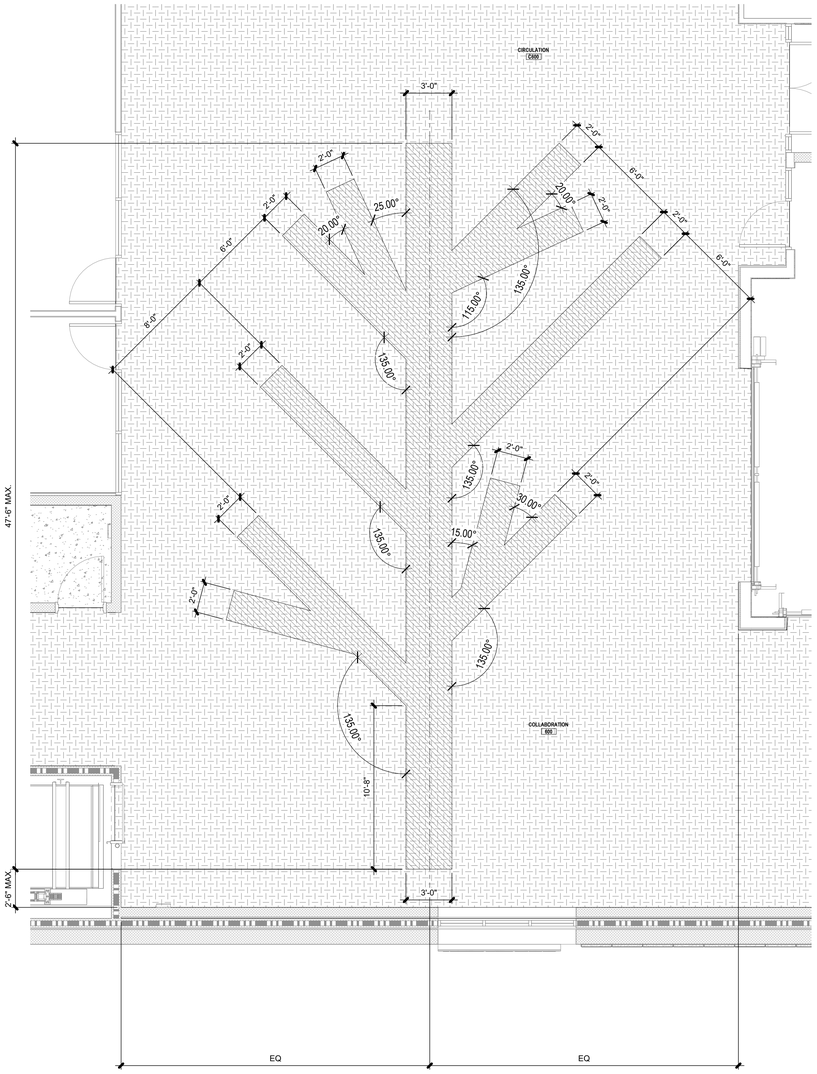
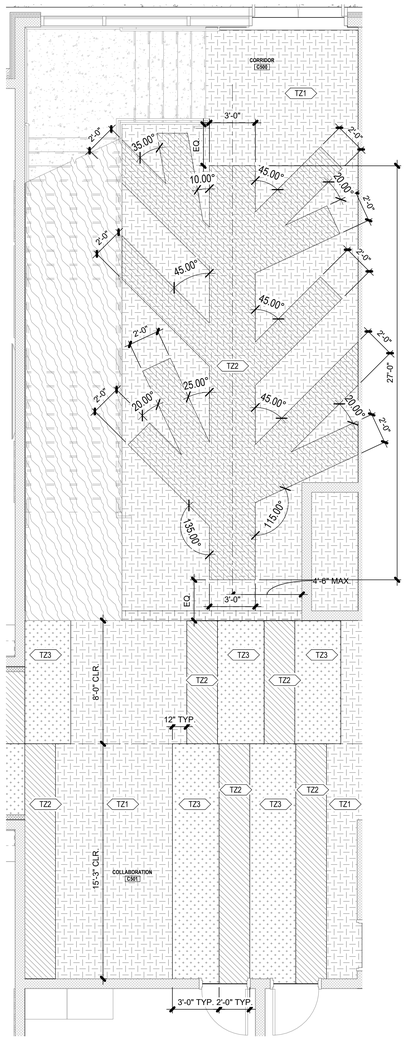


2 A-719 **COLLABORATION 600 TERAZZO TREE ACCENT DETAIL**
SCALE: 1/4" = 1'-0"



1 A-719 **CORRIDOR AND COLLABORATION C500 & C501 TERAZZO ACCENT DETAILS**
SCALE: 1/4" = 1'-0"

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2 FINISH PLAN DETAILS

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1 A-801 **FRONT PERSPECTIVE**
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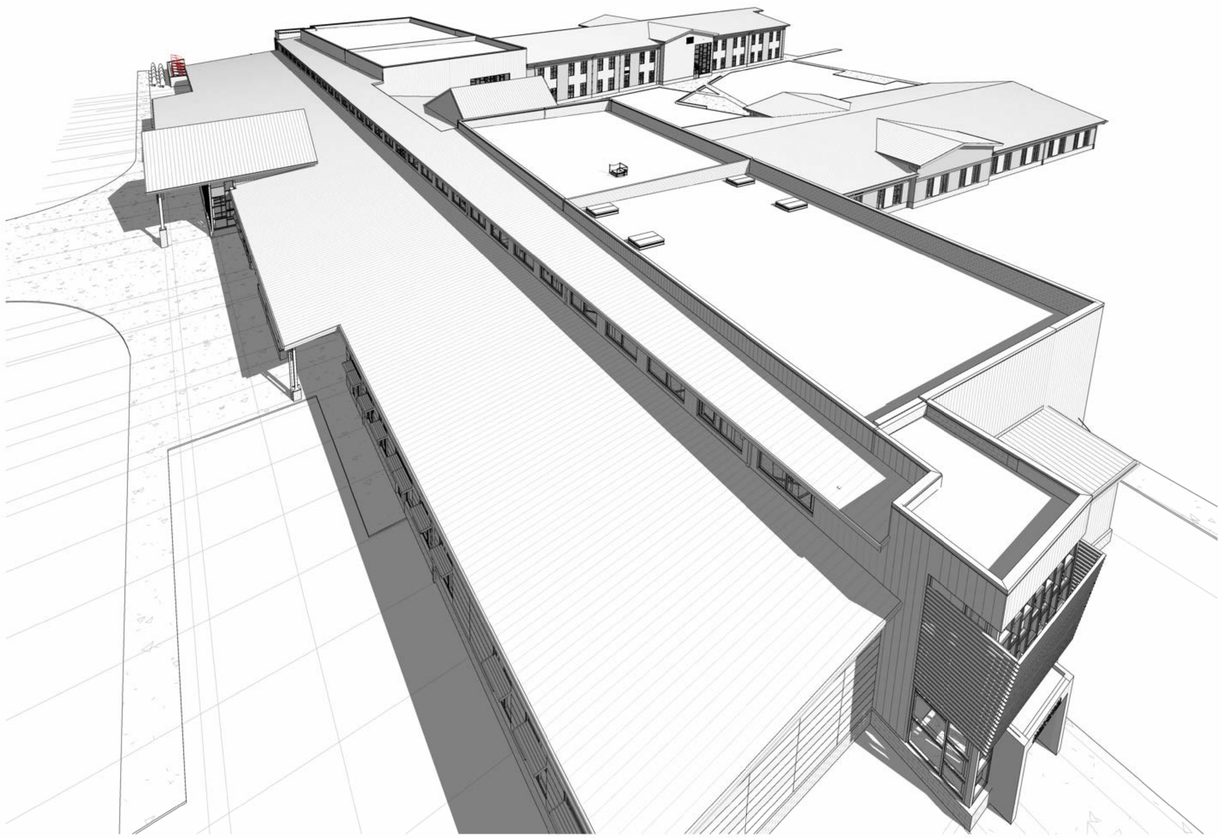

2 A-801 **ROOF PERSPECTIVE**
SCALE:

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3D PERSPECTIVE VIEWS

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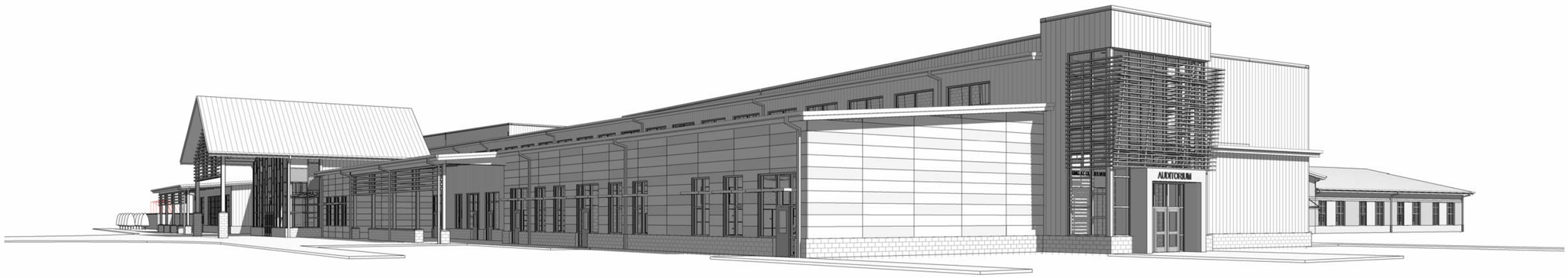

1 A-802 **NORTHEAST PERSPECTIVE**
SCALE:

2 A-802 **SOUTHEAST PERSPECTIVE**
SCALE:

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3D PERSPECTIVE VIEWS

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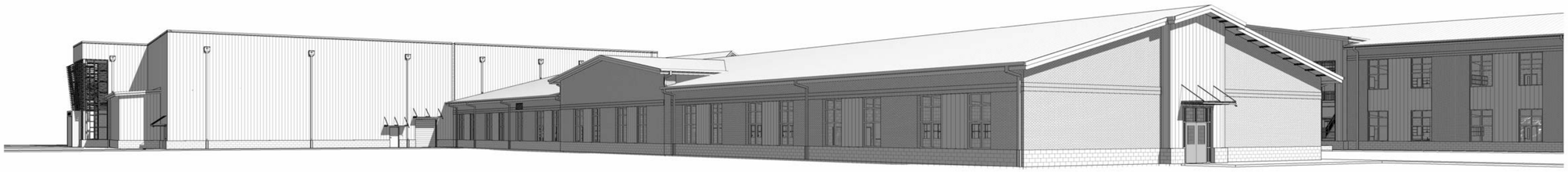
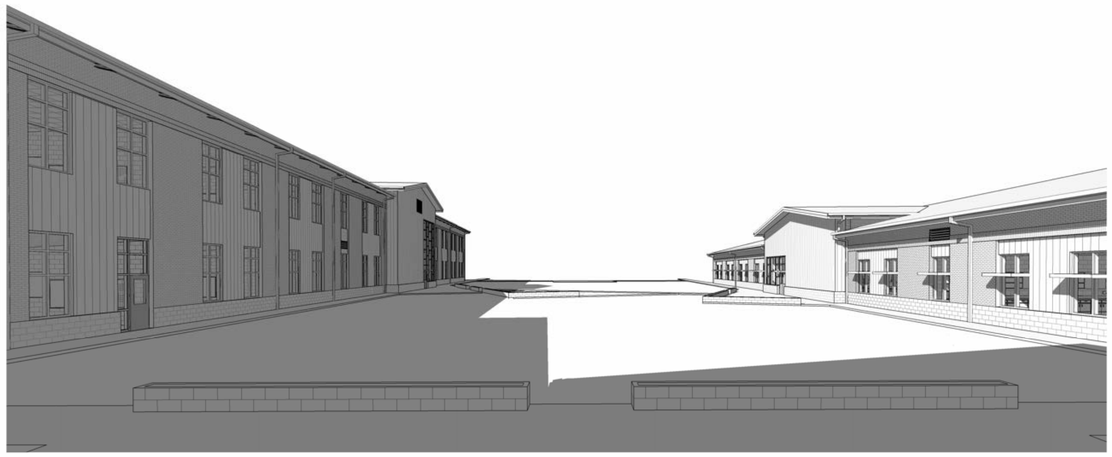


1 A-803 **NORTHWEST PERSPECTIVE**
SCALE:



2 A-803 **COURTYARD PERSPECTIVE**
SCALE:

3 A-803 **SOUTHWEST PERSPECTIVE**
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FLATWOODS MIDDLE SCHOOL

3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description

ISSUE DATE: 11/08/24
PROJECT #: 02208.000
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3D PERSPECTIVE VIEWS

A-803

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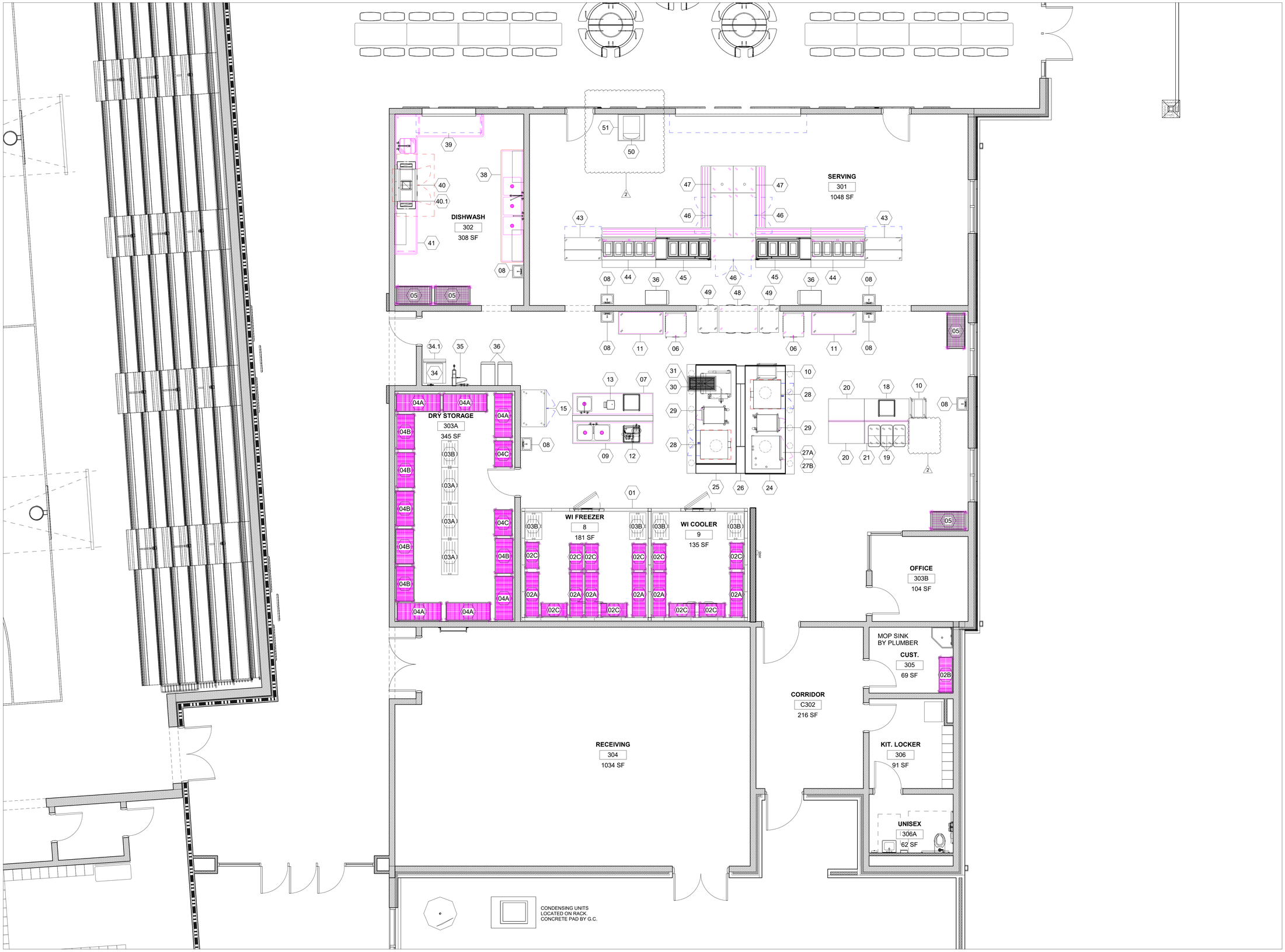

1 FS-001 FOOD SERVICE EQUIPMENT PLAN
1/4" = 1'-0"

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FOODSERVICE EQUIPMENT PLAN

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FOODSERVICE EQUIPMENT SCHEDULE

QTY	ITEM	Description	MANUFACTURER	MODEL	ITEM	ELECTRICAL							PLUMBING								REMARKS
						ELECTRICAL A.F.F.	KW	HP	AMPS	VOLTS	PHASE	NEMA	HW SIZE	HW/A.F.F.	CW SIZE	CW/A.F.F.	IW	DRAIN TYPE	DW	DW A.F.F.	
1	01	COLD STORAGE ASSEMBLY	BALLY	CUSTOM	01	*												F.D.			*SEE REFRIGERATION CONNECTION SCHEDULE
6	02A	SHELVING UNIT	METRO	Q366EG3	02A																63.31" HIGH, 4-TIER, POLYMER, CASTERS
1	02B	SHELVING UNIT	METRO	Q356EG3	02B																63.31" HIGH, 4-TIER, POLYMER, CASTERS
10	02C	SHELVING UNIT	METRO	Q336EG3	02C																63.31" HIGH, 4-TIER, POLYMER, CASTERS
3	03A	DUNNAGE RACK	METRO	HP2248PDMB	03A																BOW-TIE
5	03B	DUNNAGE RACK	METRO	HP2236PDMB	03B																BOW-TIE
6	04A	SHELVING UNIT	METRO	5Q567EG3	04A																80" HIGH, 5-TIER, POLYMER, CASTERS
6	04B	SHELVING UNIT	METRO	5Q557EG3	04B																80" HIGH, 5-TIER, POLYMER, CASTERS
2	04C	SHELVING UNIT	METRO	5Q537EG3	04C																80" HIGH, 5-TIER, POLYMER, CASTERS
4	05	POT & PAN SHELVING RACK	METRO	PR48ES	05																68" HIGH, 4-TIER, CASTERS
2	06	PROOFER CABINET	WINSTON	HOV3-14UV	06	24"			19.1	120	1	5-20P									CASTERS, SOLID DUTCH DOORS
1	07	WORKTABLE W/PREP SINK	ADVANCE TABCO	VKS-309-MOD	07								1/2"	14"	1/2"	14"		F.S.			LEVER WASTE, FAUCET, DRAWER
7	08	HAND SINK	ADVANCE TABCO	7-PS-40	08								1/2"	14"	1/2"	14"			2"	0' - 10"	
1	09	WORKTABLE W/PREP SINK	ADVANCE TABCO	VKS-309-MOD	09								1/2"	14"	1/2"	14"	2"	F.S.			LEVER WASTE, FAUCET, DRAWER
2	10	BUN PAN/STEAMTABLE PAN RACK	CHANNEL MANUFACTURING	UR12	10																CASTERS
2	11	WORK TABLE	ADVANCE TABCO	VSS-305	11																CASTERS
1	12	SLICER, ELECTRIC	HOBART	EDGE13A-11	12	48"		1/2	4.0	120	1	5-15P									
1	13	FOOD PROCESSOR	ROBOT COUPE	CL50EULTRA	13	48"			12.0	120	1	5-15P									
1	14	NOT USED	-	-	14																
1	15	REACH-IN REFRIGERATOR	EVEREST	EBSR2	15	24"		1/3	3.0	120	1	5-15P									CASTERS
1	16-17	NOT USED	-	-	16-17																
1	18	WORK TABLE	ADVANCE TABCO	TKSS-305	18																DRAWER
3	19	INGREDIENT BIN	CAMBRO	IBS27148	19																CASTERS
2	20	WORK TABLE	ADVANCE TABCO	KSS-304	20																
1	21	WORK TABLE	ADVANCE TABCO	TKSS-305	21																
1	22-23	NOT USED	-	-	22-23																
2	24	EXHAUST HOOD	CAPTIVE-AIRE	ND2-PSP	24	(2) ABV.			2@20.0	120	1	(2) DIRECT									SEE VENTILATION CONNECTION SCHEDULE
1	25	FIRE SUPPRESSION SYSTEM	ANSUL	R-102	25																WET CHEMICAL
1	26	UTILITY DISTRIBUTION SYSTEM	CAPTIVE-AIRE	UDI	26	STUB															SEE DETAILS
1	27A	COMBI OVEN, ELECTRIC	CONVOTHERM	C4 ET 6.20EB-N	27A	U.C.			44.1	208	3	DIRECT			3/8"	U.C.	2"	F.S.			WATER FILTER
1	27B	COMBI OVEN, ELECTRIC	CONVOTHERM	C4 ET 10.20EB-N	27B	U.C.			76.1	208	3	DIRECT			3/8"	U.C.	2"	F.S.			WATER FILTER, STACKING KIT ON CASTERS
2	28	ELECTRIC CONVECTION OVEN	BLODGETT	ZEPH-100-E-DBL	28	(2) U.C.			31.0	208	3	(2) DIRECT									DOUBLE DECK, CASTERS
2	29	CONVECTION STEAMER	CLEVELAND	(2) 22CET66.1	29	(2) U.C.			29.8	208	3	(2) DIRECT			(2) 3/4"	U.C.	1"	F.S.			DRAIN COOLING KIT, WATER FILTRATION SYSTEM, BACKFLOW PREVENTER
1	30	TILT SKILLET	CLEVELAND RANGE	SEL30T1	30	U.C.			33.3	208	3	DIRECT	3/8"	U.C.	3/8"	U.C.		F.T.			SINGLE PANTRY FAUCET
1	31	FLOOR TROUGH	IMC TEDDY	ASFT-1836-SG	31														4"		
1	33	NOT USED	-	-	33																
1	34	ICE MAKER	HOSHIZAKI AMERICA, INC.	KM-350MAJ	34	64"			9.0	120	1	DIRECT			1/2"	64"	1"	F.S.			WATER FILTER, BACKFLOW PREVENTION DEVICE
1	34.1	ICE STORAGE BIN	HOSHIZAKI AMERICA, INC.	B-500SF	34.1												1"	F.S.			
1	35	HOSE REEL	T&S BRASS	B-7142-C1MXS2E	35								1/2"	42"	1/2"	42"		F.D.			
4	36	STAINLESS UTILITY CART	EAGLE GROUP	UUC-322	36																CASTERS
1	38	3-COMPARTMENT SINK	ADVANCE TABCO	94-43-72-36RL	38								(2) 1/2"	14"	(2) 1/2"	14"	2"	F.S.			WALL/SPLASH MOUNT FAUCET, PRE-RINSE FAUCET, DRAIN, (3) LEVER/ WASTE, (2) DISHTABLE SORTING SHELF
1	39	SOILED DISHTABLE	ADVANCE TABCO	DTS-K30-120R	39								1/2"	14"	1/2"	14"	2"	F.S.			SIMPLE PASS-THRU
1	40	DISHWASHER CONVEYOR TYPE	HOBART	CL44EN-BAS2	40	(2) 64"	B: 30		55.0	208	3	(2) DIRECT	1/2"	64"	1/2"	64"	2"	F.S.			30KW ELECTRIC BOOSTER, DRAIN WATER TEMPERING KIT, DUAL POINT CONNECTION
1	41	CLEAN DISHTABLE	ADVANCE TABCO	DTC-S30-72L	41																SEE VENTILATION CONNECTION SCHEDULE
1	42	NOT USED	-	-	42																DISHTABLE SORTING SHELF, LIMIT SWITCH, MOUNT SORTING SHELF @ 5'
2	43	MILK COOLER	BEVERAGE-AIR	SM49HC-S	43	STUB		1/3	2.2	120	1	5-15P									CASTERS
2	44	HEATED SERVING COUNTERS	DELFIELD	SH-5-NU	44	STUB			28.0	120/208	1	14-50P					1"	F.S.			LED LIGHT, TOE PLATES, TRAY SLIDES, WORK SHELF,GLASS FRONT COUNTER PROTECTOR, CASTERS
2	45	SERVING COUNTER, COLD FOOD	DELFIELD	SCSC-60-EFP	45	STUB		1/4	7.0	120	1	5-15P					1"	F.S.			14" TOP EXTENTION, TOE PLATES, TRAY SLIDES, WORK SHELF, SNEEZE GUARD, CASTERS
3	46	SERVING COUNTER, UTILITY	DELFIELD	SC-60	46																CASTERS, TOE PLATES
2	47	CASH REGISTER STAND	DELFIELD	SCS-36	47																CASTERS, TOE PLATES, TRAY SLIDE
1	48	REFRIGERATOR, PASS-THRU	CONTINENTAL REFRIGERATOR	D2RNSAPTHD	48	90"		1/3	6.9	120	1	5-15P									
2	49	HEATED CABINET, PASS-THRU	CONTINENTAL REFRIGERATOR	DL1W-SA-PT-HD	49	90"			7.2	208	1	C&P									
1	50	COUNTERTOP ICE WATER DISPENSER	HOSHIZAKI	DM-4420N	50	50"			3.0	120	1	5-15P			3/8"	14"	1"	F.S.			WATER FILTER, BACKFLOW PREVENTION DEVICE
1	51	WORKTABLE	ADVANCE TABCO	TVSS-363	51																

ABBREVIATIONS

ABV.	ABOVE
A.F.F.	ABOVE FINISHED FLOOR
CTR.	COUNTER MOUNTED
C.W.	COLD WATER
E.C.	ELECTRICAL CONTRACTOR
F.D.	FLOOR DRAIN
F.S.	FLOOR SINK
F.S.E.C.	FOOD SERVICE EQUIPMENT CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.W.	HOT WATER
I.W.	INDIRECT WASTE
M.C.	MECHANICAL CONTRACTOR
N.I.K.C.	NOT IN KITCHEN CONTRACT
S/S	STAINLESS STEEL
ST.	STUB
U.C.	UTILITY CHASE
W.	WASTE

140° F. HOT WATER REQUIREMENTS

		GPH
POT SINKS	3 @ 30	90
HOSE STATION	1 @ 45	45
FILL FAUCET	1 @ 10	10
DISHMACHINE	FROM BOOSTER @ 20 PSI	126
PRE-RINSE UNIT	2 @ 35	70
CAN WASH	-	10
CLEANING	-	10
	TOTAL	361

110° F. HOT WATER REQUIREMENTS

		GPH
PREP SINK	3 @ 20	60
MOP SINK	-	5
HAND SINK	7 @ 5	35
	TOTAL	100

ELECTRICAL LOADS ARE BASED ON MANUFACTURER'S INFORMATION. MINIMUM CIRCUIT AMPACITY AND OVERCURRENT PROTECTION TO BE DETERMINED BY CODE REQUIREMENTS AND/OR MANUFACTURER'S DIRECTIONS.

***GAS NOTE:
KITCHEN EQUIPMENT WILL BE PROVIDED WITH GAS PRESSURE REGULATORS DESIGNED TO OPERATE WITH 14" W.C. INCOMING GAS PRESSURE OR LESS. PLUMBER TO PROVIDE INTERMEDIATE REGULATORS, AS REQUIRED TO REDUCE INCOMING BUILDING PRESSURE TO LEVEL SUITABLE FOR EQUIPMENT.

REFRIGERATION CONNECTION SCHEDULE

CONN.	EQUIPMENT	LOAD	V/PH	REMARKS
01A	LIGHTS, COOLER	300 W	120/1	2 EXTRA LIGHTS
01B	EVAP. COIL, COOLER	2.0 AMP	120/1	-
01C	COND. UNIT, COOLER	7.5 MCA	208/3	-
01D	LIGHTS & DOOR HEAT	700 W	120/1	2 EXTRA LIGHTS
01E	HEAT TAPE, FREEZER	15.0 AMP	120/1	DRAINLINE HEAT TAPE
01F	EVAP. COIL, FREEZER	1.8 AMP	208/1	FEED DEFROST THRU TIMER @ COND. UNIT
01G	COND. UNIT, FREEZER	17 MCA	208/3	

VENTILATION CONNECTION SCHEDULE

ITEM	CONNECTION	SIZE	CFM	S.P.	QTY.	TOTAL
24A	EXHAUST	4" X 14"	2200	-0.935"	1	2200
24B	SUPPLY	10" X 28"	586	0.159"	3	1758
24C	EXHAUST	4" X 16"	2400	-0.797"	1	2400
24D	SUPPLY	8" X 36"	640	0.183"	3	1920
40.1	EXHAUST	10" X 10"	600	0.25"	1	600

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CONSTRUCTION DRAWINGS

HARNETT COUNTY SCHOOLS
FLATWOODS MIDDLE SCHOOL
3544 US 401 S, LILLINGTON NC 27546

ENERGY STAR PARTNER

No.	Date	Description
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FOOD SERVICE EQUIPMENT SCHEDULE

FS-002

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1 FS-003 FOOD SERVICE PLUMBING PLAN
1/4" = 1'-0"

MECHANICAL SYMBOLS	
	HOT WATER (HW)
	COLD WATER (CW)
	FLOOR DRAIN
	FLOOR DRAIN
FS	FLOOR SINK -OPEN
FS	FLOOR SINK W/HALF GRATE
	EXHAUST DUCT CONNECTION
	SUPPLY DUCT CONNECTION

NOTES

PLUMBING ROUGHING IN NOTES

THIS PLAN IS INTENDED TO SHOW UTILITY REQUIREMENTS AND APPROXIMATE ROUGHING-IN LOCATIONS ONLY. DO NOT USE FOR ACTUAL ROUGHING-IN. FOR FINAL ROUGH-IN LOCATIONS SEE DIMENSIONED PLANS PROVIDED BY FOOD SERVICE EQUIPMENT CONTRACTOR.

WHERE EXPOSED PIPES AND CONDUITS ARE NECESSARY, THEY SHOULD BE MOUNTED 1 TO 2 INCHES OFF THE WALL AND 6 INCHES OFF THE FLOOR TO ALLOW FOR CLEANING.

PLUMBING NOTES

PLUMBING TRIM SUCH AS FAUCETS AND SINK WASTES SHALL BE FURNISHED WITH EQUIPMENT BY FOOD SERVICE EQUIPMENT CONTRACTOR. PLUMBER TO PROVIDE SERVICE, STOP VALVES, P-TRAPS, ETC., AND MAKE FINAL CONNECTIONS.

COLD STORAGE ASSEMBLY: EVAP. COIL DRAINLINES SHALL BE PROVIDED AND INSTALLED BY FOOD SERVICE EQUIPMENT CONTRACTOR.

HOSE REELS FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR WITH VACUUM BREAKER, MIXING VALVE, SHUT-OFF VALVE, CHECK VALVES, TEMPERED WATER PIPING AND FLANGES. PLUMBER TO PROVIDE SUPPLY LINES AND MAKE FINAL CONN.S. (SEE HOSE REEL DETAIL)

HOSE STATION FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR WITH INTEGRAL VALVES. PLUMBER TO MAKE FINAL CONNECTION.

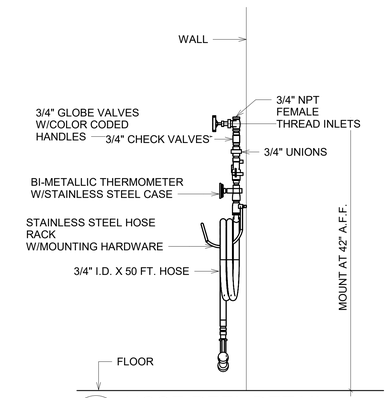
FIRE CONTROL SYSTEM: FOOD SERVICE EQUIPMENT CONTRACTOR TO FURNISH MECHANICAL GAS SOLENOID VALVE LOOSE FOR PLUMBER TO INSTALL IN GAS SUPPLY LINE, LOCATED SO AS TO SHUT OFF ALL GAS TO COOKING EQUIPMENT WHEN ACTUATED.

UTILITY RACEWAY FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR PRE-PLUMBED AND WITH QUICK DISCONNECTS. PLUMBER TO MAKE FINAL CONNECTIONS AND INSTALL QUICK DISCONNECTS TO EQUIPMENT.

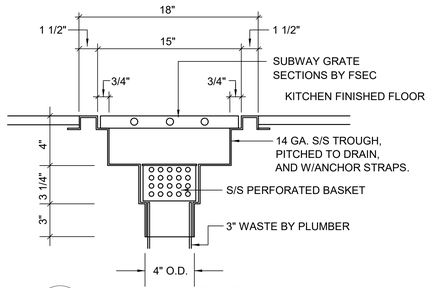
MECHANICAL NOTES

EXHAUST HOOD SHALL BE FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR WITH CONNECTION COLLARS ON TOP. H.V.A.C. CONTRACTOR TO PROVIDE EXHAUST FAN, BUILDING DUCTWORK AND MAKE FINAL CONNECTIONS.

DISHMACHINE SHALL BE FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR WITH VENT COWLS AND STAINLESS STEEL DUCTS TO CEILING, READY FOR FINAL CONNECTIONS BY H.V.A.C. CONTRACTOR.



2 FS-003 HOSE REEL DETAIL
NO SCALE



3 FS-003 FLOOR TROUGH DETAIL
NO SCALE

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FOOD SERVICE PLUMBING PLAN

FS-003

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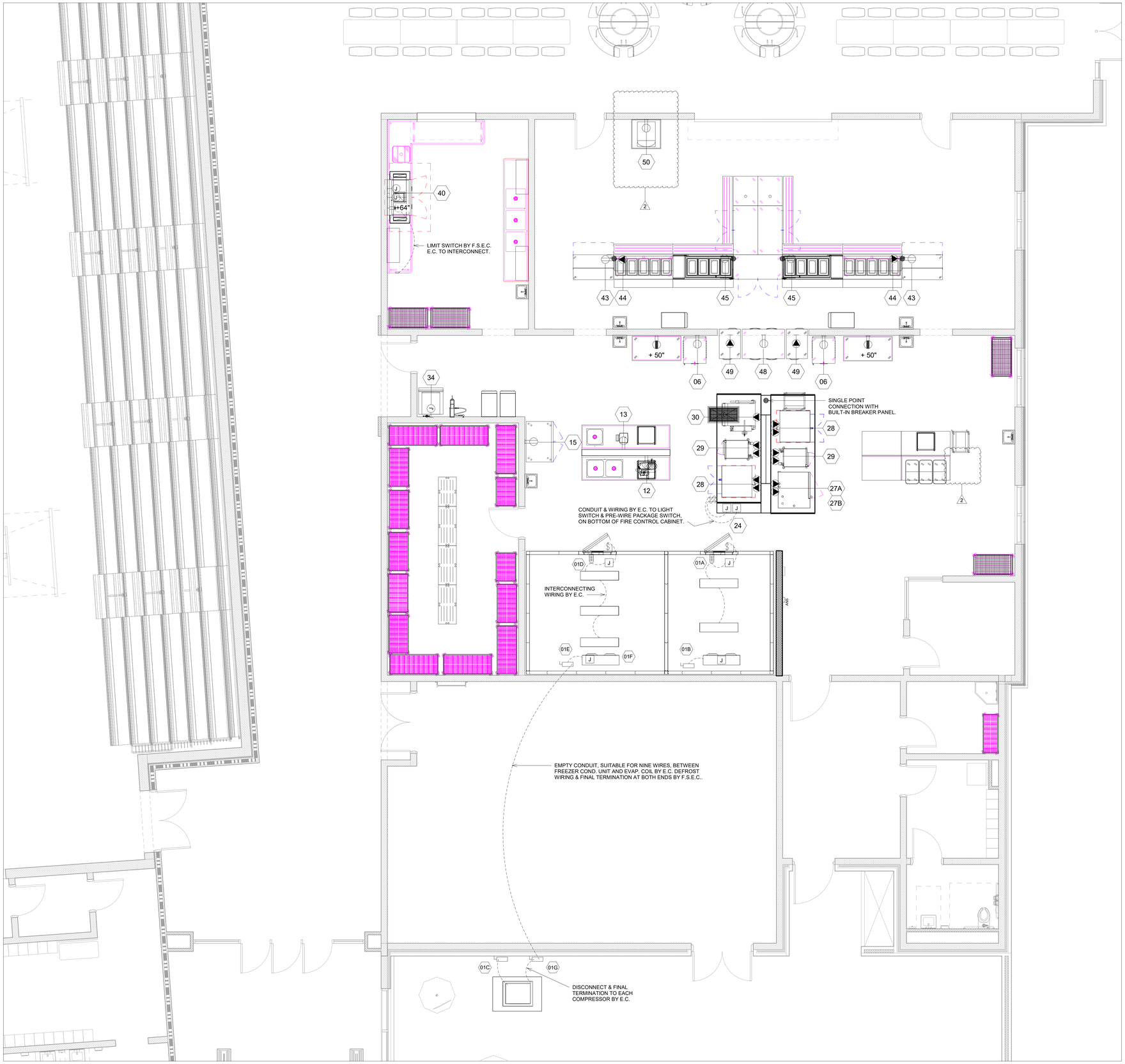


1 FS-004 FOOD SERVICE ELECTRICAL PLAN
1/4" = 1'-0"

ELECTRICAL SYMBOLS	
J	J-BOX, FLUSH IN WALL
J	J-BOX FROM ABOVE
●	WATERPROOF CONDUIT STUB
	DUPLEX OUTLET
	CONVENIENCE OUTLET, UNASSIGNED
F	FLOOR MOUNTED OUTLET BY E.C.
	SPECIAL OUTLET TO MATCH EQUIPMENT
T	TABLE MOUNTED OUTLET (SEE DETAIL)
	SPLIT DUPLEX (TWO CIRCUITS)
U.C.	UTILITY CHASE MOUNTED OUTLET

NOTES

ELECTRICAL ROUGHING IN NOTES

THIS PLAN IS INTENDED TO SHOW UTILITY REQUIREMENTS AND APPROXIMATE ROUGHING-IN LOCATIONS ONLY. DO NOT USE FOR ACTUAL ROUGHING IN. FOR FINAL ROUGH-IN LOCATIONS SEE DIMENSIONED PLANS PROVIDED BY FOOD SERVICE EQUIPMENT CONTRACTOR.

WHERE EXPOSED PIPES AND CONDUITS ARE NECESSARY, THEY SHOULD BE MOUNTED 1 TO 2 INCHES OFF THE WALL AND 6 INCHES OFF THE FLOOR TO ALLOW FOR CLEANING.

ELECTRICAL NOTES

EXHAUST HOODS FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR WITH LIGHT FIXTURES AND EMPTY CONDUIT TO J-BOX. ELECTRICAL CONTRACTOR TO INTERCONNECT TO LIGHT SWITCH IN S/S UTILITY CHASE. SEE DETAIL XXXX.

EXHAUST HOOD FURNISHED WITH FAN PREWIRE PACKAGE. ELECTRICAL CONTRACTOR TO INTERCONNECT TO SWITCH IN S/S UTILITY CHASE. SEE DETAIL XXXX.

FIRE CONTROL SYSTEM FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR WITH APPLIANCE SHUT-OFF FEATURE. ELECTRICAL CONTRACTOR TO INTERCONNECT TO SHUNT TRIPS PER MANUFACTURERS DIAGRAM, SO AS TO SHUT OFF ALL EQUIPMENT UNDER HOODS WHEN ACTUATED.

DISHMACHINE SHALL BE FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR, PRE-WIRED TO INTEGRAL CONTROL PANEL READY FOR FINAL CONNECTION BY ELECTRICAL CONTRACTOR.

COLD STORAGE ROOMS SHALL BE FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR WITH PRE-WIRED LIGHT AND SWITCH AT DOOR PANEL. ELECTRICAL CONTRACTOR TO PROVIDE INTERCONNECTING WIRING TO EXTRA LIGHT FIXTURES AND MAKE FINAL CONNECTIONS.

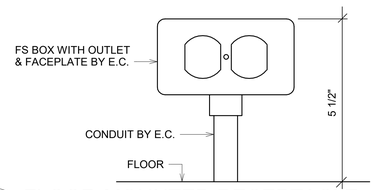
REFRIGERATION SYSTEMS SHALL BE FURNISHED AND INSTALLED BY FOOD SERVICE EQUIPMENT CONTRACTOR, INCLUDING DEFROST WIRING BETWEEN COND. UNIT AND EVAP. COIL. FINAL POWER DROPS AND DISCONNECTS FOR COND. UNITS AND EVAP. COILS SHALL BE BY ELECTRICAL CONTRACTOR.

UTILITY RACEWAY SHALL BE FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR. PREWIRED AND READY FOR FINAL CONNECTION BY ELECTRICAL CONTRACTOR. FOOD SERVICE EQUIPMENT CONTRACTOR TO FURNISH CORD AND PLUG SETS FOR INSTALLATION TO EQUIPMENT BY ELECTRICAL CONTRACTOR.

MECHANICAL NOTES

EXHAUST HOOD SHALL BE FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR WITH CONNECTION COLLARS ON TOP. H.V.A.C. CONTRACTOR TO PROVIDE EXHAUST FAN, BUILDING DUCTWORK AND MAKE FINAL CONNECTIONS.

DISHMACHINE SHALL BE FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR WITH VENT COWLS AND STAINLESS STEEL DUCTS TO CEILING, READY FOR FINAL CONNECTIONS BY H.V.A.C. CONTRACTOR.



2 FS-004 FLOOR-MOUNTED RECEPTACLE
NO SCALE

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ENERGY STAR PARTNER

No.	Date	Description
2	12-13-24	CD REVISIONS

ISSUE DATE: 11/08/24

PROJECT #: 02208.000
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FOOD SERVICE ELECTRICAL PLAN

FS-004

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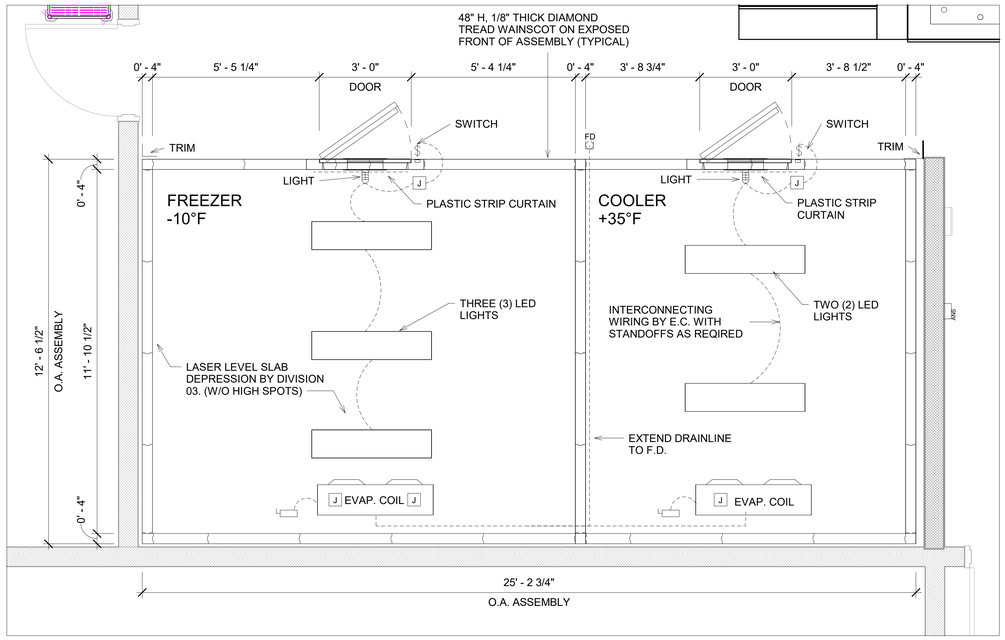
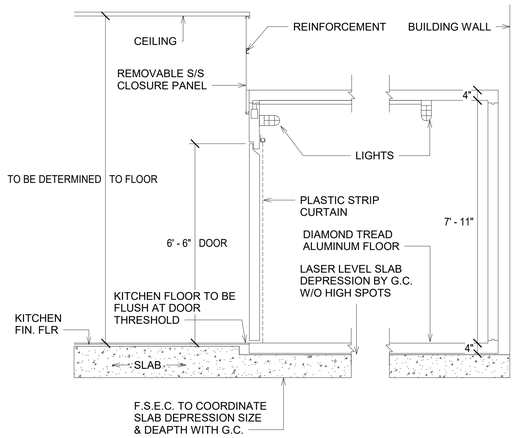


1 FS-005 WALK-IN COLD STORAGE ASSEMBLY
1/2" = 1'-0"

COLD STORAGE ASSEMBLY DATA						
COMPARTMENT	TEMP RANGE	DAILY BTU LOAD	LIGHTS WATTS	DOOR HEAT	VOLT	PHASE
COOLER	+35° F	7,799	300 W		120	1
FREEZER	-10° F	9,878	400 W	300 W	120	1

REFRIGERATION SYSTEMS									
AMBIENT TEMP.	RUN TIME	COND. UNIT MCA	COND. UNIT VOLT	COND. UNIT PHASE	SUCTION TEMP	EVAP. COIL AMP	EVAP. COIL VOLT	EVAP. COIL PHASE	EVAP. COIL DEFROST
100° F	16 HOURS	7.5	208	3	24.8° F	2.0	120	1	OFF-CYCLE
100° F	18 HOURS	17	208	3	-19.2° F	11.9	208	1	ELECTRIC



2 FS-005 COLD STORAGE ASSEMBLY SECTION VIEW
1/2" = 1'-0"

WALK-IN NOTES

EXTERIOR SURFACES
.040 PATTERNED ALUMINUM WITH 48" HIGH WAINSCOT ON EXPOSED SURFACES.

INTERIOR WALLS
.040 PATTERNED ALUMINUM WITH WHITE FINISH.

INTERIOR CEILING
.040 PATTERNED ALUMINUM WITH WHITE ENAMEL.

INTERIOR FLOOR
RECESSED INSULATED FLOOR BY F.S.E.C. WITH .100 DIAMOND TREAD ALUMINUM. 1200 LBS STRUCTURAL FLOOR.

DOORS
NOMINAL 36"x78" FINISHED TO MATCH EXTERIOR. CHROME PLATED HARDWARE; 1/8" DIAMOND TREAD KICK PLATE, 48" HIGH, BOTH SIDES.

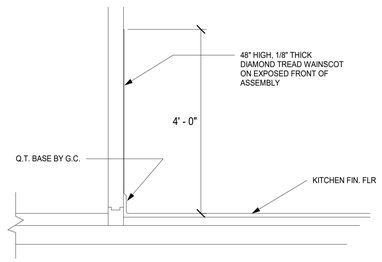
REFRIGERATION
AIR COOLED REMOTE CONDENSING UNITS WITH ALL WEATHER HOUSING, AND CONTROLS FOR OUTDOOR OPERATION.

MISCELLANEOUS
TRIM STRIPS, EVAPORATOR DRAIN LINES, DIAL THERMOMETERS, TOP CLOSURE PANELS, PLASTIC STRIP CURTAINS AND 1/8" DIAMOND TREAD WAINSCOT ACROSS FRONT OF ASSEMBLY.

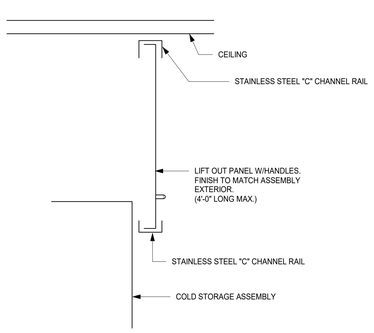
LIGHTS
MANUFACTURER TO FURNISH EXTRA LIGHT FIXTURES AS REQUIRED TO PROVIDE 50 FT. CANDLES 30" ABOVE FLOOR MINIMUM. F.S.E.C. TO INSTALL AND E.C. TO CONNECT.

MANF. SHALL SELECT COMPRESSOR TYPE & HP BASED ON LOADS AND DESIGN CRITERIA GIVEN. ELECTRICAL DATA IS GIVEN FOR GUIDANCE ONLY AND SHALL BE CORDINATED WITH ELECTRICAL CONTRACTOR.

CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING COLD STORAGE ASSEMBLY

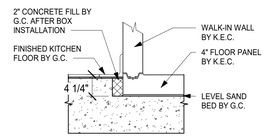


3 FS-005 WAINSCOT DETAIL
NO SCALE



4 FS-005 REMOVABLE S/S PANEL DETAIL
NO SCALE

NOTES:
- WALK-IN FLOOR PANELS MUST SIT ON A LEVEL SURFACE. G.C. TO PROVIDE LASER-LEVEL SURFACE WITHOUT HIGH SPOTS FOR WALK-IN FLOOR PANELS.
- MANUFACTURER MUST KNOW PRIOR TO FABRICATION: DEPTH OF PIT; THICKNESS OF SAND; TILE THICKNESS & GROUT THICKNESS TO SIZE DOOR HEIGHT CORRECTLY.



5 FS-005 RECESSED WALK-IN FLOOR
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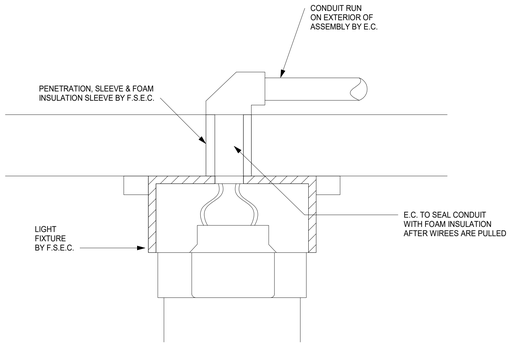
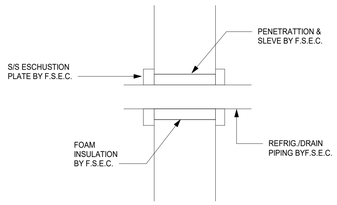
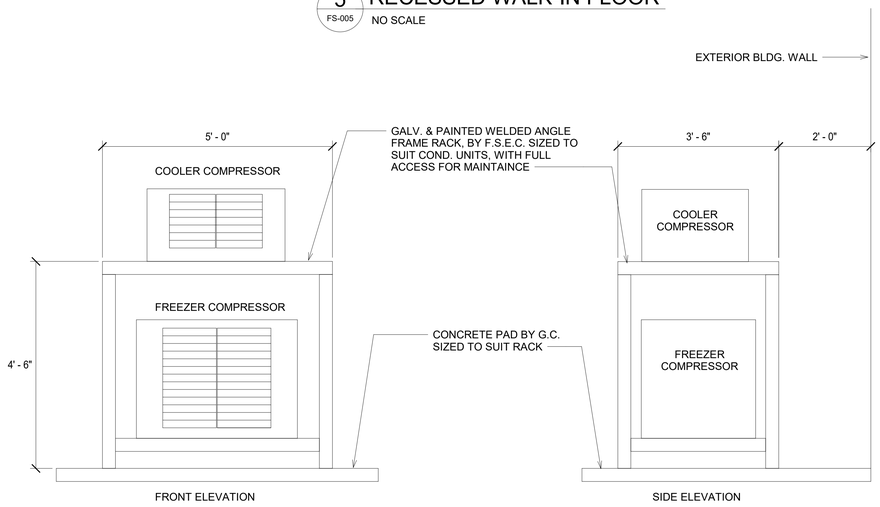




6 FS-005 PANEL PENETRATION DETAIL
NO SCALE



7 FS-005 CONDENSING UNIT DETAIL
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FOOD SERVICE COLD STORAGE DETAILS

FS-005

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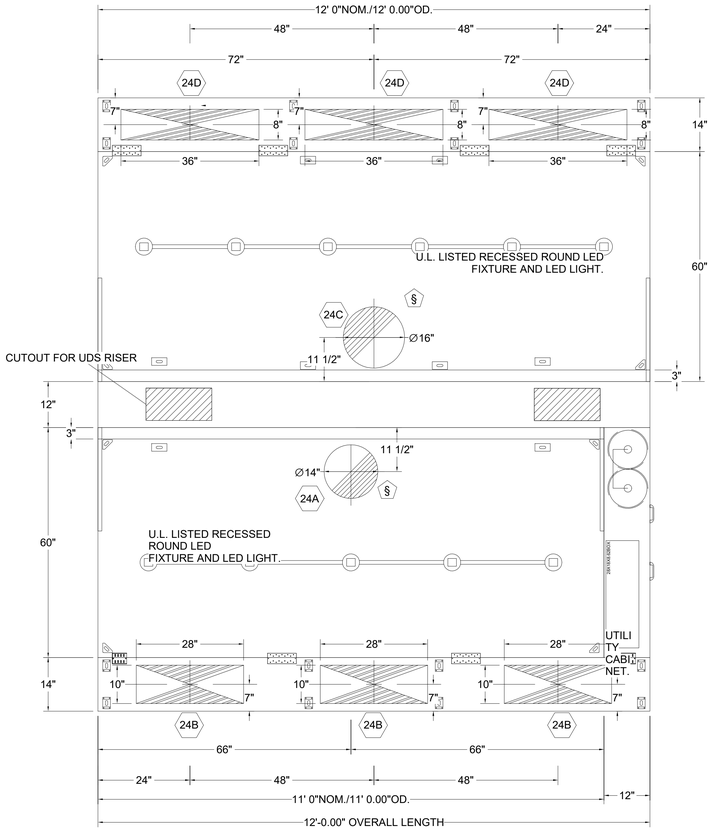
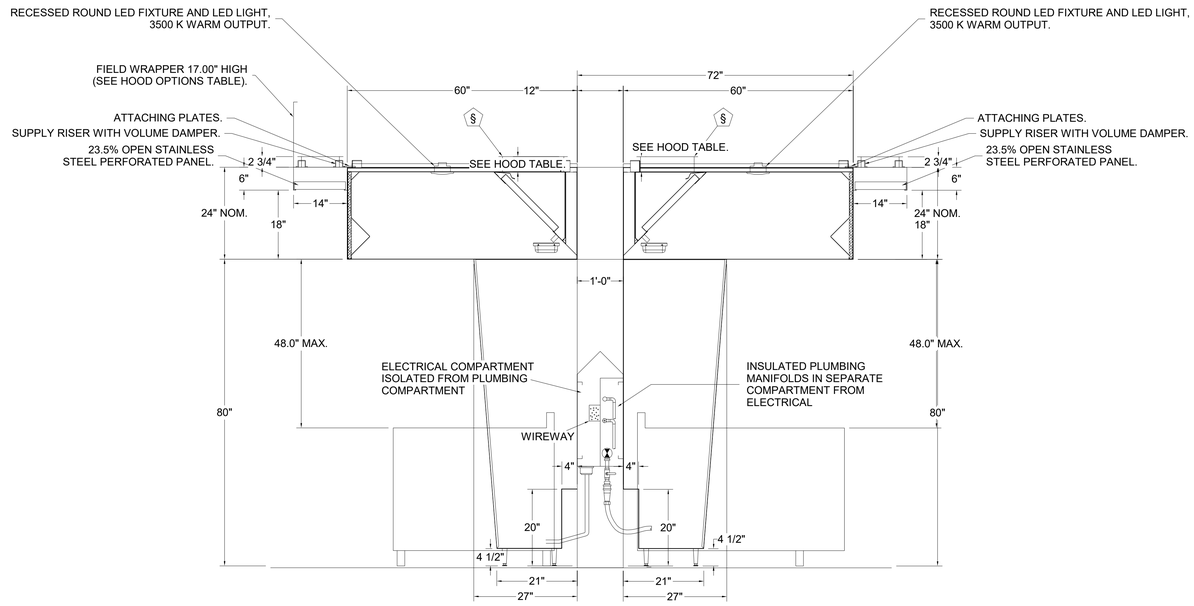
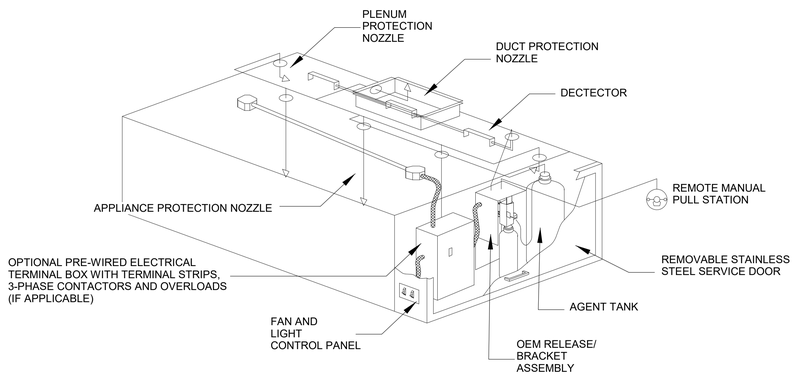


1 FS-006 EXHAUST HOOD PLAN
3/4" = 1'-0" ITEM 24



2 FS-006 EXHAUST HOOD SECTION
3/4" = 1'-0" ITEM 24



3 FS-006 FIRE SUPPRESSION SYSTEM
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FOOD SERVICE EXHAUST HOOD DETAILS

FS-006

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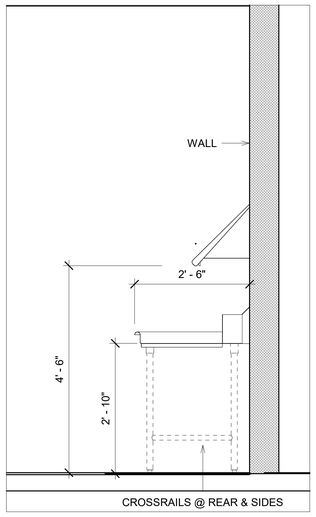
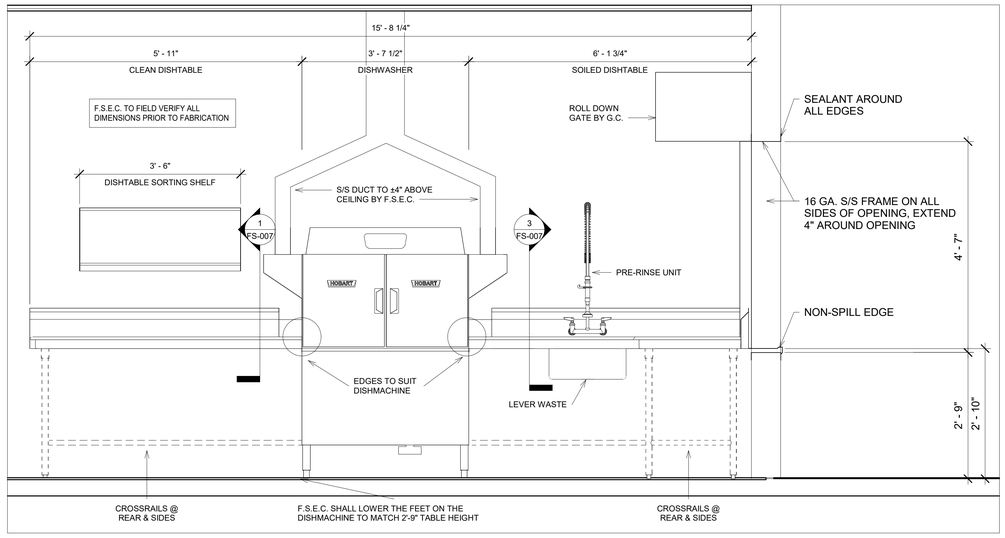
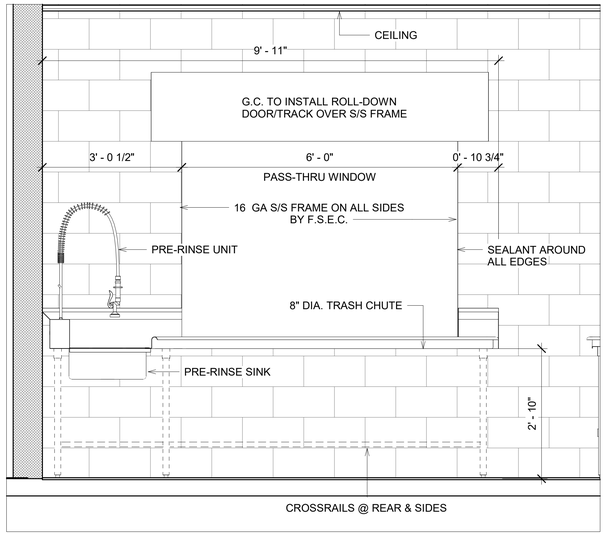


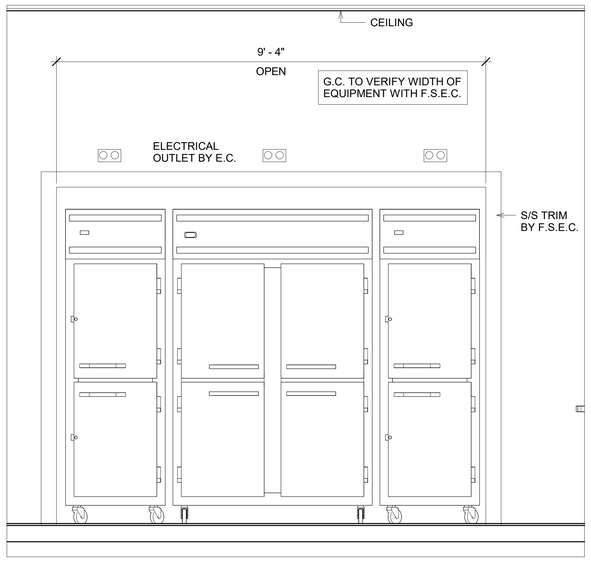
1 FS-007 **CLEAN DISHTABLE**
3/4" = 1'-0" ITEM 41



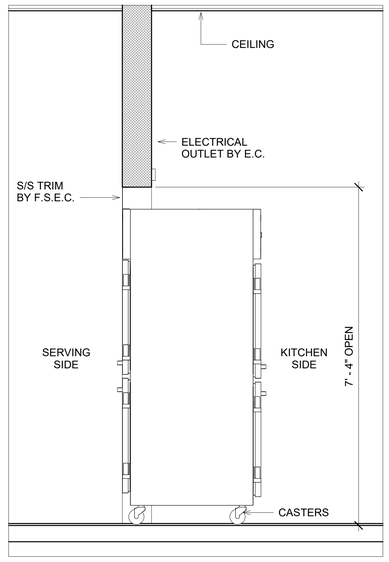
2 FS-007 **DISHTABLE ASSEMBLY ELEVATION**
3/4" = 1'-0" ITEM 39, 40, 40.1, 41



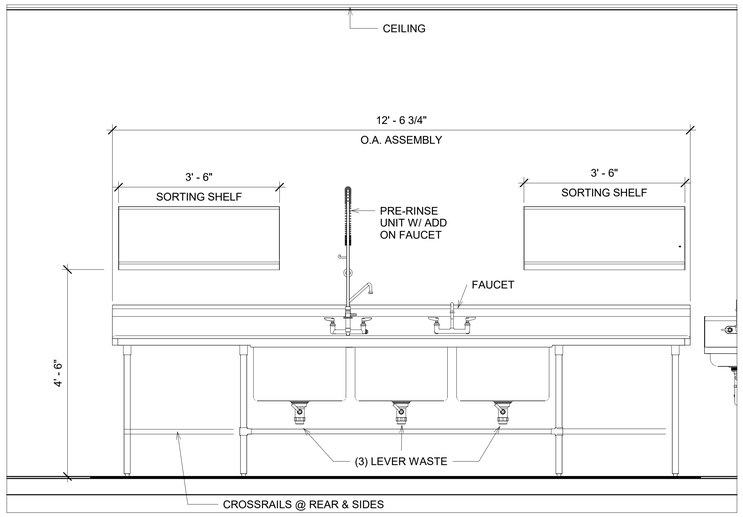
3 FS-007 **SOILED DISHTABLE**
3/4" = 1'-0" ITEM 39



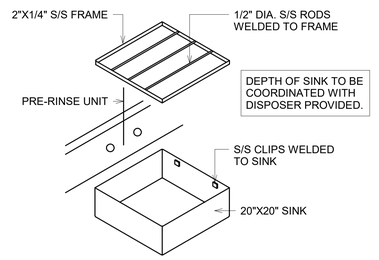
4 FS-007 **PASS-THRU ELEVATION**
3/4" = 1'-0" ITEM 48, 49



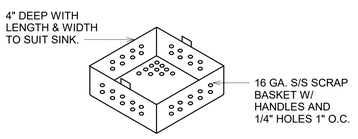
5 FS-007 **PASS-THRU SECTION**
3/4" = 1'-0" ITEM 48, 49



6 FS-007 **3-COMPARTMENT SINK**
3/4" = 1'-0" ITEM 38



7 FS-007 **PRE-RISE SINK DETAIL**
NO SCALE



8 FS-007 **SCRAP BASKET DETAIL**
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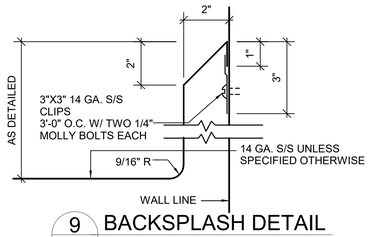

9 FS-007 **BACKSPLASH DETAIL**
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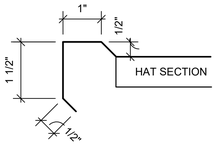

10 FS-007 **NON-SPILL DETAIL**
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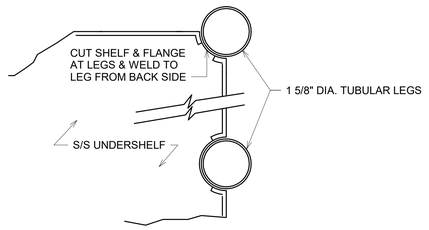

11 FS-007 **PIPE LEG UNDERSHELF**
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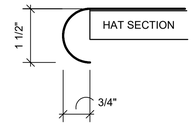

12 FS-007 **PLAIN EDGE DETAIL**
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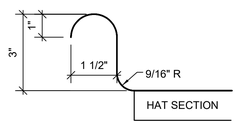

13 FS-007 **ROLLED RIM DETAIL**
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FS-007

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