

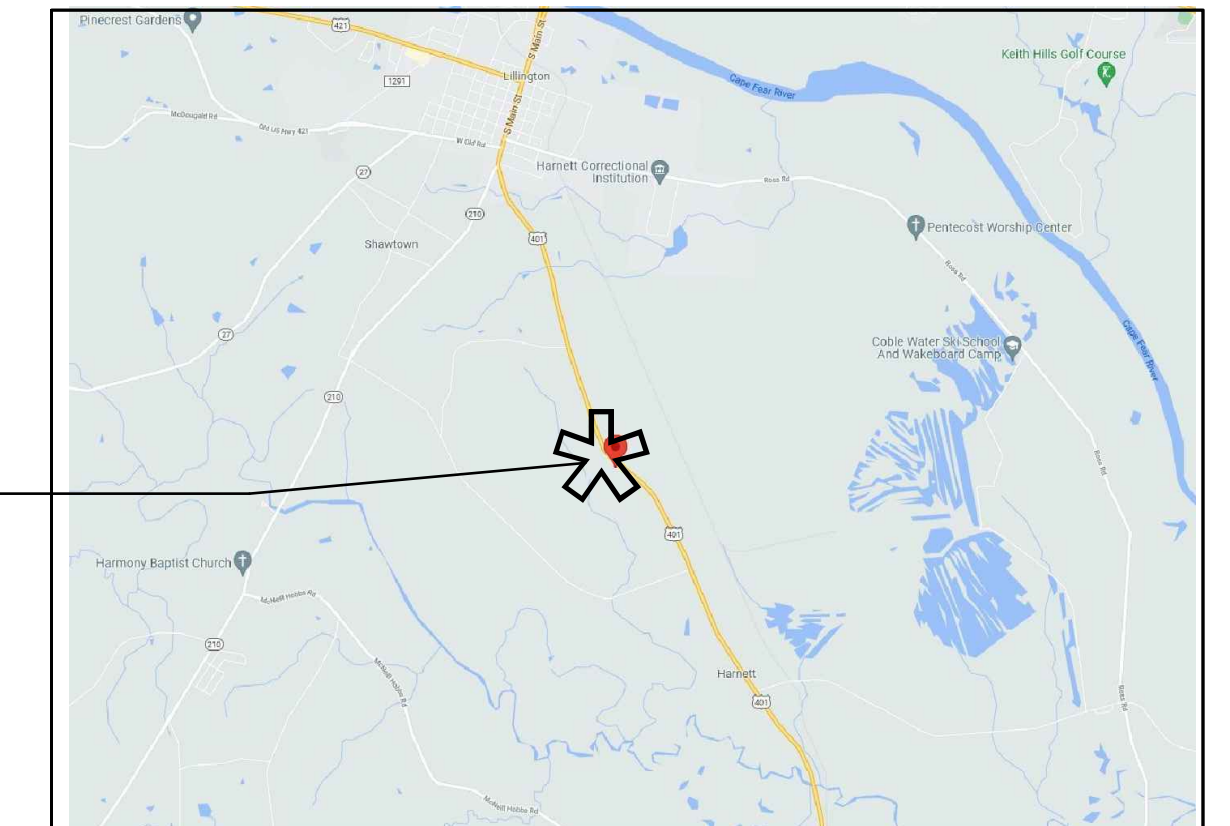
Proposed "Concrete Batch Plant" Dispatch Office Building for **Crete Solutions LLC**

2544 US 401 N
Lillington, North Carolina

CONTRACT DOCUMENTS: SUBMITTAL 12/06/21 (Issued for Code Enforcement Permit Review Approval)
Occupancy Group Use: " Business (B) "



APPROXIMATE VICINITY OF PROPOSED PROJECT
SEE LOCATION MAP
VICINITY MAP
NTS



APPROXIMATE AREA OF EXISTING BUILDING FACILITY
NEW CONSTRUCTION
LOCATION MAP
NTS



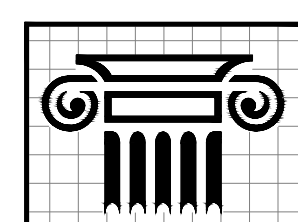
KEY PLAN
SITE NORTH PLAN NORTH

NOT TO SCALE

SHEET TITLES

G100	COVER SHEET	P100	PLUMBING SCHEDULES, NOTES & DETAILS
G100	BUILDING CODE & LIFE SAFETY PLANS	P101	FLOOR PLAN – PLUMBING – WASTE
		P102	FLOOR PLAN – PLUMBING – WATER
N100	ACCESSIBILITY DETAILS	M100	MECHANICAL SCHEDULES NOTES & DETAILS
N101	GENERAL CONSTRUCTION NOTES	M101	FLOOR PLAN – MECHANICAL
S1.0	FOUNDATION AND SLAB PLAN	E100	ELECTRICAL SCHEDULES, NOTES & DETAILS
S2.0	ROOF FRAMING PLAN	E101	FLOOR PLAN – ELECTRICAL – POWER
		E102	FLOOR PLAN – ELECTRICAL – LIGHTING
		E103	ATTIC PLAN – ELECTRICAL
AS100	FOUNDATION PLAN		
A100	DIMENSIONAL FLOOR PLAN		
A101	REFLECTED CEILING PLAN		
A200	EXTERIOR BUILDING ELEVATIONS BUILDING CROSS SECTION		
A300	TYPICAL WALL SECTIONS		
A400	ENLARGED PLANS, ELEVATIONS & DETAILS		
A500	DOOR/WINDOW SCHEDULES, ELEVATIONS & DETAILS		

ARCHITECTURAL FIRM OF RECORD:



Design Elements
Michael L. Saieed, Jr., AIA, LEED-AP
Architect

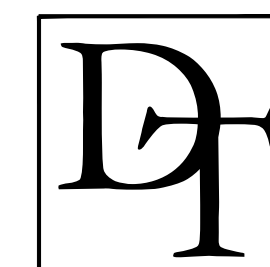
ENGINEERING FIRM
(MECHANICAL, ELECTRICAL, PLUMBING) OF RECORD:



TOPSAIL
ENGINEERING, INC
PLUMBING | MECHANICAL | ELECTRICAL

TOPSAIL ENGINEERING INC
(NC License: C-2546)
Post Office Box 367
Hampstead, NC 28443
(Tel) 910.270.3747
Email: office@topsailengineering.com

ENGINEERING FIRM STRUCTURAL OF RECORD:



DAVID TERKELTOUB AND ASSOCIATES
CONSULTING ENGINEERS

902 PINE GROVE DRIVE
WILMINGTON, NC 28409
PHONE: (910) 794-3070 FAX: (910) 794-3090

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS - NC 2018 BUILDING CODE (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: Crete Solution, LLC "Concrete Batching Plant Office/Storage Building"
Address: 2544 US 401 N, Hammett Co., Lillington, North Carolina
Owner/Authorized Agent: Tyler Shaw, Owner Associate (Crete Investments, LLC)

PROJECT SUMMARY:
Building Description: NEW (PROPOSED) CONSTRUCTION OF A 1 STORY WOOD FRAME STRUCTURE
Scope of Work: DESIGN AND CONSTRUCT A PROPOSED SINGLE-STORY STRUCTURE FOR A CONCRETE BATCH PLANT OFFICE WITH ACCESSORY STORAGE

Code Compliance Summary: SINGLE STORY GROUP TYPE "B" OCCUPANCY (PRIMARY USE) FACILITY WITH ACCESSORY STORAGE (S-2 LOW HAZARD)
Alternative Means of Compliance Request: NONE

LEAD DESIGN PROFESSIONAL:
DESIGNER FIRM NAME LICENSE # TELEPHONE # E-MAIL

Table with 5 columns: Designer Firm, Name, License #, Telephone #, E-Mail. Lists various subcontractors like Architectural, Electrical, Fire Alarm, etc.

2018 NC BUILDING CODE: New Building, Addition, 1st Time Interior Completion
2018 NC EXISTING BUILDING CODE: Alteration Level I, II, III, IV

CONSTRUCTED (date) N/A CURRENT OCCUPANCY(S) (Ch. 3) N/A
RENOVATED (date) N/A PROPOSED OCCUPANCY(S) (Ch. 3) BUSINESS GROUP (B)

OCCUPANCY CATEGORY (Table 1604.5): CURRENT: N/A, I, II, III, IV, V-A, V-B
PROPOSED: N/A, I, II, III, IV

BASIC BUILDING DATA:
Construction Type: I-A, I-B, I-C, I-D, I-E, I-F, I-G, I-H, I-I, I-J, I-K, I-L, I-M, I-N, I-O, I-P, I-Q, I-R, I-S, I-T, I-U, I-V, I-W, I-X, I-Y, I-Z

Sprinklers: N/A, Yes, No, Partial
Standpipes: N/A, No, Class I, II, III, Wet, Automatic, Dry

Primary Fire District: Yes, No
Special Inspections: Yes, No

Gross Building Area Table:
FLOOR EXISTING (SQ FT) NEW (SQ FT) SUB-TOTAL

TOTAL GROSS SQUARE FOOT AREA (FOOTAGE / CONDITION OR NON-CONDITION SPACES, AS DEFINED NCBC-2018 SECTION 202.1 ESTIMATED (DOTTED) X ARE FOR CODE SUMMARY REVIEW ONLY, NOT FOR GENERAL CONTRACTOR'S REFERENCE USE OF ACTUAL AREA "BUILD TO SUIT" CONSTRUCTION COST

ALLOWABLE AREA:
Primary Occupancy Classification(s): A-1, A-2, A-3, A-4, A-5

Special Uses (Chapter 4 - List code Sections): 508.2.4

Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.00

Actual Area of Occupancy A: 1528 sqft
Actual Area of Occupancy B: 9000 sqft
Actual Area of Occupancy C: 13,500 sqft

Percent of frontage increase 1 = 100 / (FP - 0.25) x W30

1. Frontage area increases from Section 506.2.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width

ALLOWABLE HEIGHT:
Building Height in Feet (Table 504.3): 40'-0"
Building Height in Stories (Table 504.4): 2

FIRE PROTECTION REQUIREMENTS:

Table with columns: BUILDING ELEMENT, FIRE SEPARATION DISTANCE (FEET), RECD, PROVIDED (W/ REDUCTION), DETAIL # AND SHEET #, DESIGN # FOR RATED ASSEMBLY, DESIGN # FOR RATED PENETRATION, DESIGN # FOR RATED JOINTS.

PERCENTAGE OF WALL OPENING CALCULATIONS

Table with columns: FIRE SEPARATION DISTANCE (FEET FROM PROPERTY LINES), DEGREE OF OPENINGS PROTECTION, ALLOWABLE AREA (%), ACTUAL SHOWN ON PLANS (%).

WALL LEGENDS: This section required for all projects

Fire Walls 706, Fire Partitions 708, Fire Barriers 709, Smoke Barriers 709, Exterior Wall Opening Area with Respect to Distance to Assumed Property Lines (705.8), Shaft Enclosure 713, Smoke Partitions 710

LIFE SAFETY SYSTEM REQUIREMENTS:

Emergency Lighting: No, Yes
Exit Signs: No, Yes
Fire Alarm: No, Yes
Smoke Detection Systems: No, Yes, Partial

LIFE SAFETY SYSTEM REQUIREMENTS: Life Safety Plan Sheet #:

N/A Fire and/or smoke rated wall locations (Chapter 7)
N/A Assumed and real property line locations (not on the site plan)
N/A Exterior wall opening area with respect to distance to assumed property lines (705.8)

N/A Fire and/or smoke rated wall locations (Chapter 7)
N/A Assumed and real property line locations (not on the site plan)

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PLUMBING FIXTURE REQUIREMENTS: (TABLE 2902.1)

Table with columns: USE, Occupancy Load, WATER CLOSETS, URINALS, LAVATORIES, SHOWERS/TUBS, DRINKING FOUNTAINS, ACCESSIBLE.

ACCESSIBLE PARKING: (SECTION 1106)

Table with columns: LOT OR PARKING AREA, TOTAL # OF PARKING SPACES REQUIRED, PROVIDED, # OF ACCESSIBLE SPACES PROVIDED.

SPECIAL APPROVALS

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

PROVIDE BUILDING PREMISES IDENTIFICATION REFERENCE KEYNOTE [01]

DESIGN LOADS SUMMARY

(SEE STRUCTURAL DRAWINGS FOR CONTINUATION OF "BUILDING CODE SUMMARY")

ENERGY SUMMARY

(SEE MECHANICAL DRAWINGS FOR CONTINUATION OF "BUILDING CODE SUMMARY")

ELECTRICAL SYSTEM AND EQUIPMENT

(SEE ELECTRICAL/MECHANICAL DRAWINGS FOR CONTINUATION OF "BUILDING CODE SUMMARY")

MECHANICAL SUMMARY

(SEE MECHANICAL DRAWINGS FOR CONTINUATION OF "BUILDING CODE SUMMARY")

ENERGY REQUIREMENTS

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided.

Climate Zone: N/A, 3A, 4A, 5A

Method of Compliance: Energy Code - Performance, Energy Code - Prescriptive, ASHRAE 90.1 - Performance, ASHRAE 90.1 - Prescriptive, Other - Performance

Exempt Building: Yes, No

Project Information: Energy Code, Project Title, Location, Climate Zone, Project Type, Vertical Glazing / Wall Area, Permit No., Performance Sim. Specs.

Building Area: 1-Building area: slab on grade (Office) / Nonresidential 1600

Envelope Assemblies: Assembly, Gross Area or Perimeter, Cavity R-Value, Cont. R-Value, Proposed U-Factor, Budget U-Factor

Roof: Asphalt Shingles, R42 bats insulation, Also Roof with Wood Joists, (Bldg. Use 1 - Building area: slab on grade); Comment: Floor 1 - Insulation: Vertical Insulation: R-19; (Bldg. Use 1 - Building area: slab on grade); Comment: Slab on grade (c)

North Wall: vinyl siding, 6" stud w/ R-19 fiberglass insulation Int'l: Wood-Framed, 16" o.c., (Bldg. Use 1 - Building area: slab on grade); Comment: Vinyl siding, AWB membrane, cavity, R-19 fiberglass insulation; Insulated Stoatrol 45T type B, Metal Frame Curtain Wall/Storfront, Perf. Specs: Product ID SOLARBAN 60 Clear-Clear, SHGC 0.31, VT 0.54, (Bldg. Use 1 - Building area: slab on grade); Comment: (b)

East Wall: vinyl siding, 6" stud w/ R-19 fiberglass insulation Int'l: Wood-Framed, 16" o.c., (Bldg. Use 1 - Building area: slab on grade); Comment: Vinyl siding, AWB membrane, cavity, R-19 fiberglass insulation; Insulated Stoatrol 45T type B, Metal Frame Curtain Wall/Storfront, Perf. Specs: Product ID SOLARBAN 60 Clear-Clear, SHGC 0.31, VT 0.54, (Bldg. Use 1 - Building area: slab on grade); Comment: (b)

West Wall: vinyl siding, 6" stud w/ R-19 fiberglass insulation Int'l: Wood-Framed, 16" o.c., (Bldg. Use 1 - Building area: slab on grade); Comment: Vinyl siding, AWB membrane, cavity, R-19 fiberglass insulation; Insulated Stoatrol 45T type B, Metal Frame Curtain Wall/Storfront, Perf. Specs: Product ID SOLARBAN 60 Clear-Clear, SHGC 0.31, VT 0.54, (Bldg. Use 1 - Building area: slab on grade); Comment: (b)

Insulated Stoatrol 500T type A2: Glass (x-50%) glazing/Metal Frame, Entrance Door, Perf. Specs: Product ID SOLARBAN 60 Clear-Clear, SHGC 0.25, VT 0.54, (Bldg. Use 1 - Building area: slab on grade); Comment: (b)

Insulated Stoatrol 45T type B: Metal Frame Curtain Wall/Storfront, Perf. Specs: Product ID SOLARBAN 60 Clear-Clear, SHGC 0.31, VT 0.54, (Bldg. Use 1 - Building area: slab on grade); Comment: (b)

Insulated Stoatrol 45T type B: Metal Frame Curtain Wall/Storfront, Perf. Specs: Product ID SOLARBAN 60 Clear-Clear, SHGC 0.31, VT 0.54, (Bldg. Use 1 - Building area: slab on grade); Comment: (b)

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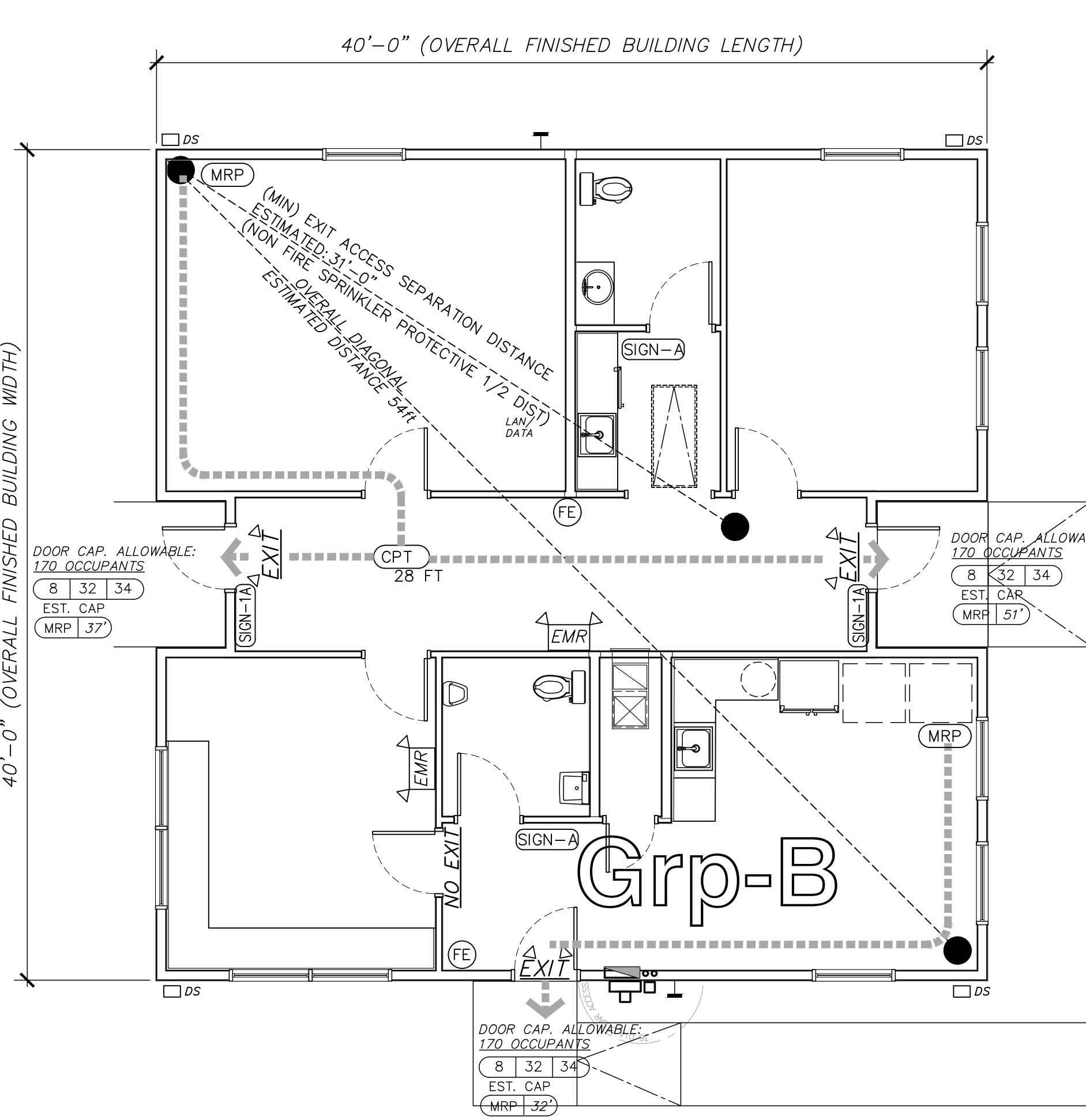
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GENERAL ARRANGEMENT LIFE SAFETY PLANS SCALE: 3/16" = 1'-0"

"LIFE SAFETY" REFERENCE PLAN



LEGEND: (FE) PORTABLE FIRE EXTINGUISHER SURFACE WALL MOUNT UNIT; TOP/LEVER HEIGHT @ 42" AFF (MULTI-PURPOSE CARBON DIOXIDE (MIN.15LB) CLASS TYPE ABC)

(SIGN-A) WALL MOUNTED EXIT IDENTIFICATION SIGNAGE (SEE SIGNAGE DETAIL B/N100)

EXIT: DEDICATED BUILDING ACCESSIBLE MEANS OF EGRESS W/ OVERHEAD EXIT LIGHT AND EMERGENCY BACKUP. AT NON-DIRECT EXITS, PROVIDE DIRECTIONAL ARROW TO EXIT. (OPTIONAL: COMBINATION UNIT W/ EMERGENCY DIRECTIONAL (ACCESSIBLE PATHWAY) ADJUSTABLE (TWO) HEADS LED LIGHTING (REFERENCE MOST CURRENT NCBC-2018 RECOGNIZED NEC ELECTRICAL CODE AND ELECTRICAL DRAWINGS FOR ADDITIONAL DETAILED INFORMATION)

NO EXIT: EXTERIOR SERVICE ACCESS DOOR; NOT DECLARED AN ACCESSIBLE (HC/ADAG) MEANS OF EGRESS. (PROVIDE "NO EXIT" PLACARD, MIN. 2" RED LETTERS; MOUNTED 48" A.F.F. CENTERED TO DOOR PANEL)

EMR: MEANS OF EGRESS EMERGENCY DIRECTIONAL LIGHTING; BATTERY BACKUP; SURFACE WALL OR CEILING MOUNTED (REFERENCE NEC 2015 ELECTRICAL CODE AND ELECTRICAL DRAWINGS FOR APPROXIMATE REQUIRED QUANTITIES FOR ALLOWABLE DISTANCE LOCATIONS) (OPTIONAL: COMBINATION UNIT W/ EXIT SIGNAGE)

ASSUMED PATH OF TRAVEL (LESS THAN 200H) FROM THE "MOST REMOTE POINT" TO DEDICATED MULTIPLE EXITS: ACCESSIBLE MEANS OF EGRESS

KNOX BOX: LOCATION OF KNOX BOX AND FEOP (REFERENCE ARCH A101 [KEYNOTE 13]) SHALL BE APPROVED BY AUTHORITY HAVING JURISDICTION AND LOCAL FIRE MARSHALL

REQUIREMENTS OF A LOCK BOX SHALL BE AS FOLLOWS: 1. ONLY APPROVED BOXES SHALL BE USED. ORDER FROM WWW.KNOXBOX.COM

2. MINIMUM SIZE SHALL BE NECESSARY TO SECURE ALL THE KEYS FOR THE BUILDING. REFERENCE UNIT SHALL BE THE 3200 SERIES WITH A HINGED LID.

3. LOCK BOXES SHALL BE MOUNTED TO THE WALL WITHIN 5 FEET OF THE DOOR ADJACENT TO THE FACE OR REMOTE ANNUNCIATOR, FIVE (5) FEET ABOVE FINISHED FLOOR (AFF) MEASURED TO THE CENTERLINE.

4. THE RED KNOX BOX STICKER SHALL BE PLACED IN THE TOP LEFT CORNER OF THE DOOR THAT KEYS ARE PROVIDED TO OPEN. ITEMS THAT SHALL BE INCLUDED IN THE LOCK BOX, IF APPLICABLE TO BUILDING:

- 1. MASTER ENTRY KEY FOR BUILDING OR BUSINESS
2. EQUIPMENT ROOM KEY
3. ANY OTHER KEY(S) THAT MAY BE HELPFUL IN FIRE DEPARTMENT OPERATIONS

GENERAL KEYNOTES

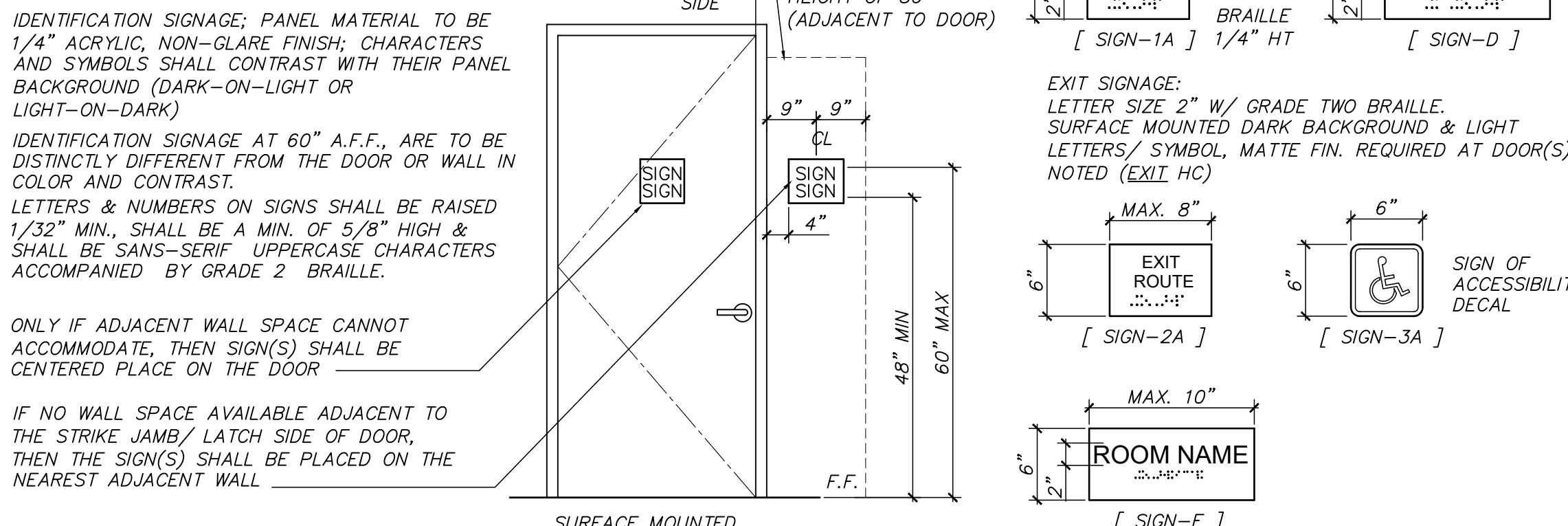
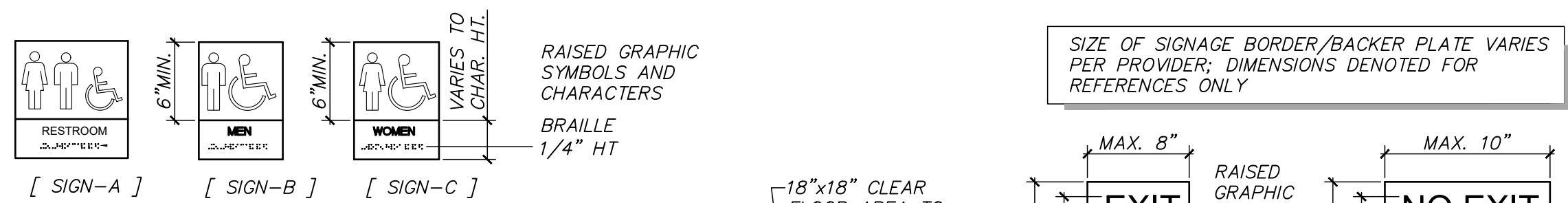
01 BUILDING PREMISES IDENTIFICATION PROVIDE AN APPROVAL (ASSIGNED BY LOCAL AUTHORITY HAVING JURISDICTION) STREET ADDRESS NUMBER; WALL MOUNTED TO EXTERIOR BUILDING FACADE AND POSITION TO BE PLAINLY LEGIBLE AND VISIBLE FROM THE STREET (OR) ROAD FRONTING THE PROPERTY LINE (PUBLIC ACCESS WAY) BUILDING ADDRESS NUMBERS SHALL BE CONTRASTING WITH THE FINISHED BUILDING FACADE (BACKGROUND SIDING). BUILDING ADDRESS CHARACTERS SHALL BE "ARABIC (OR) ALPHABETICAL LETTERS" AT (MIN) 6" HEIGHT WITH A (MIN) STROKE WIDTH 3/4"; SECURE ADDRESS CHARACTERS WITH APPROPRIATE NON-CORROSIVE FASTENERS.

WHERE PROPOSED STRUCTURE ACCESS IS BY MEANS OF A PRIVATE ROAD AND THE BUILDING ADDRESS NUMBER CANNOT BE VIEWED FROM PUBLIC ACCESS WAY, A MONUMENT, POLE OR OTHER SIGN OR MEANS SHALL BE USED TO IDENTIFY THE STRUCTURE. (REFERENCE ICC/IBC/NCF-2018 SECTION 505)

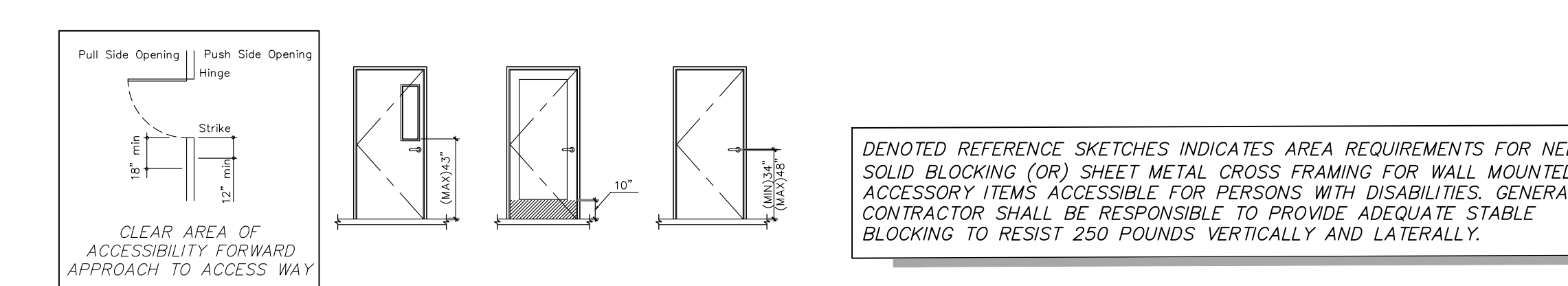
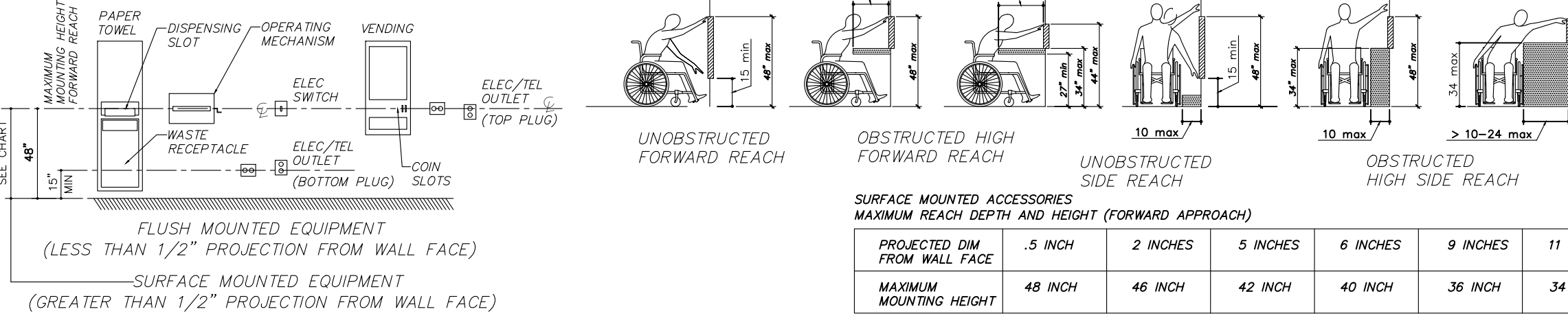
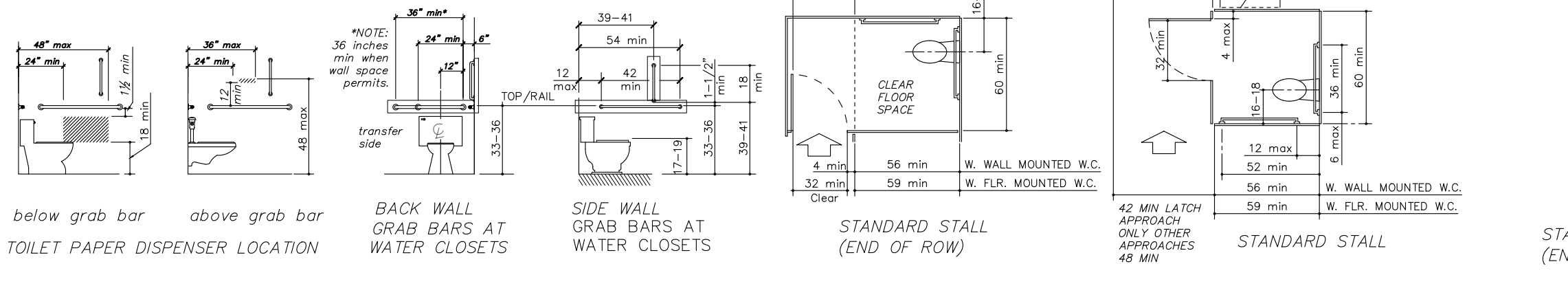
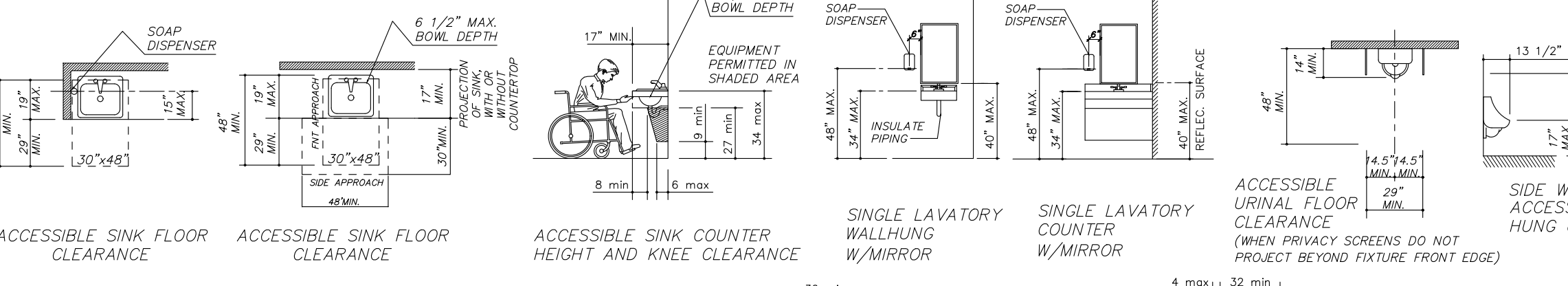
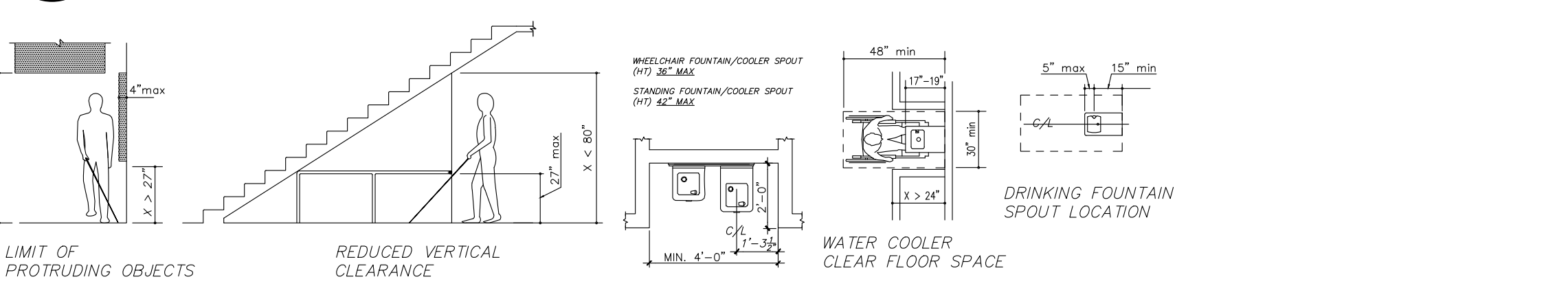
Design Elements logo and contact information for M.L. Saleed (Architect/President) at 1213 Coleridge Drive, Suite 142, Wilmington, North Carolina 28405. Includes phone number 910-392-9331 and date 06/20/21. Also features 'Proposed Dispatch Office Building for Crete Solutions, LLC' and 'Crete Solutions, LLC' branding.

Table with columns: NO., DATE, REVISION, ISSUE FOR CODE ENFORCEMENT REVIEW & APPROVAL. Shows revision history for the drawing.

Project title block: date 12/01/21, job no. CRETE/JUL, drawn by MSAIEED, checked by MSAIEED, drawing no. G100, revision no. 0.



(B) TACTILE SIGN DETAILS NOT TO SCALE:



(A) TYPICAL REFERENCES for (ANSI/ADAAG (HC) ACCESSIBILITY CLEARANCES NOT TO SCALE

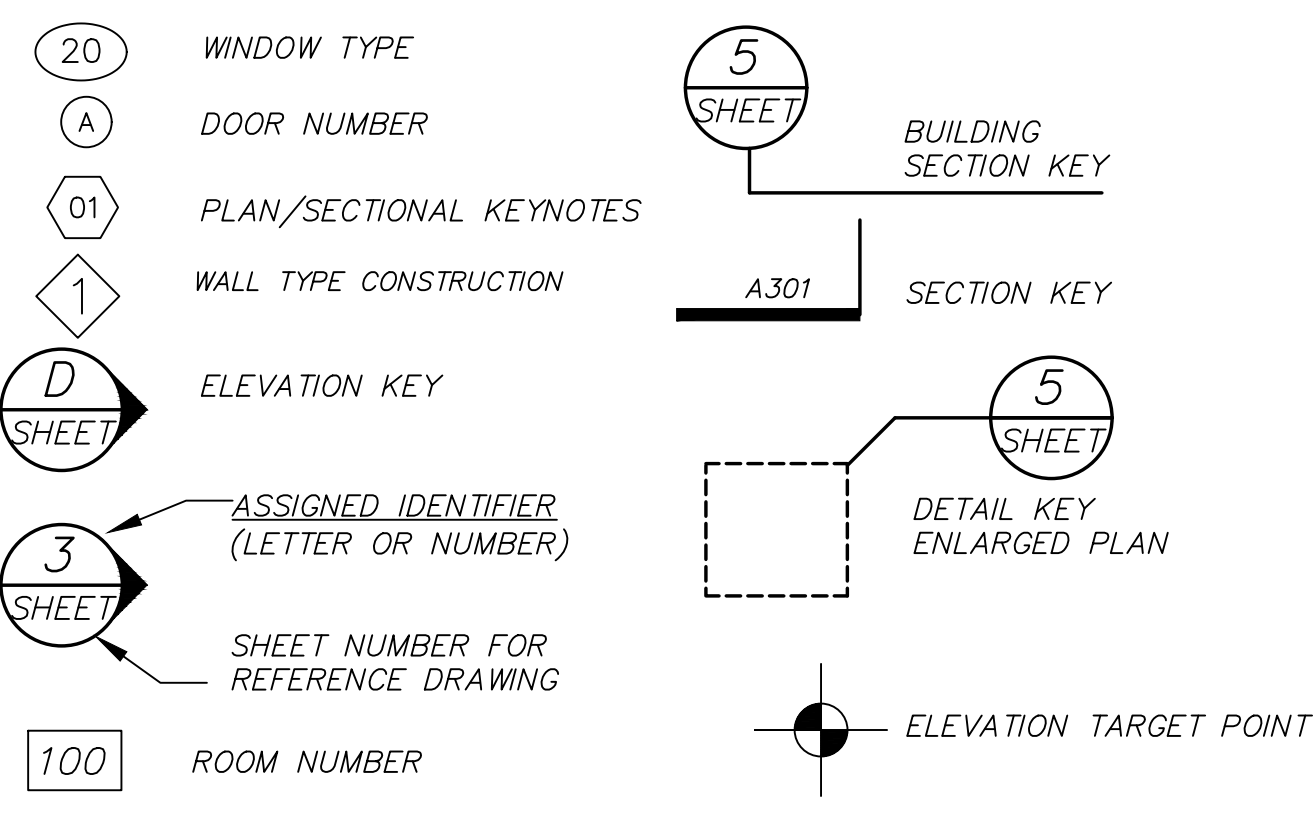
GENERAL NOTES (SEE ADDITIONAL REFERENCES FOR REQUIRED "IN-WALL" BLOCKING)

TYPICAL BATHROOMS (PRIMARY AND SECONDARY USES) ARE DESIGNED IN REFERENCE TO ICC-IBC/NCBC 2012 CHAPTER 11 & ICC/ANSI A117.1 FOR AMERICANS WITH DISABILITIES. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND PRE-FRAME WITH BLOCKING FOR SUPPORTING WALL MOUNTED HARDWARE ACCESSORIES NEEDED FOR PERSONS WITH DISABILITIES.

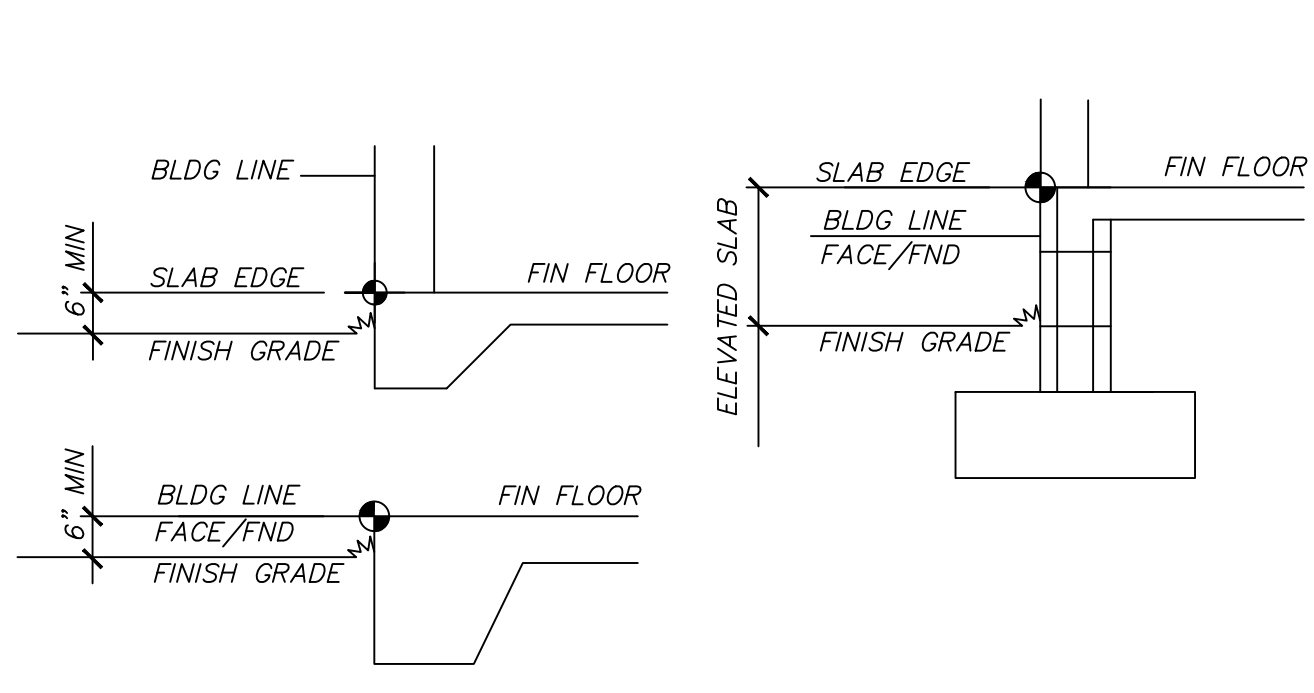
FLOOR PLAN LEGEND

- (SIGN) WALL MOUNTED (DOOR MOUNTED IF NOT APPLICABLE) IDENTIFICATION SIGNAGE (SEE SIGNAGE DETAIL SHEET B/N100)
- (1) DESIGNATES WALL TYPE CONSTRUCTION; (SEE SHEET 1/N102 FOR TYPICAL WALL TYPES)
- (FE) FIRE EXTINGUISHER WALL MOUNT UNIT W/ LEVER HT. @ 42" AFF (MULTI-PURPOSE CARBON DIOXIDE (MIN.10lb) CLASS TYPE ABC)
- (FEC) FIRE EXTINGUISHER & SEMI-RECESS METAL CABINET; IN-WALL MOUNTED 42" AFF FROM TOP LEVER/HANDLE (MIN.10lb) CLASS TYPE ABC; FACE FINISHED CABINET SHALL NOT EXTEND > 4" INTO ANY PATH OF CIRCULATION; PROVIDE RATED CABINET WHERE INSTALLED IN RATED WALL.
- (#) INDICATES DOOR IDENTIFICATION NUMBER; SEE ARCH SHT XXX FOR INFORMATION ON NOM. DOOR/FRAME SIZES, DESIGNATION TYPES & HARDWARE (REFERENCE ARCH XXXX FOR DETAILED INFOR'N)
- (A) INDICATES WINDOW IDENTIFICATION NUMBER; REF. SEE SHEET D/A201 FOR DETAILED INFORMATION FOR WINDOW FRAME DIMENSIONS AND NOTES
- SWC/HM (WIDTH) x (HEIGHT) DESIGNATES SIZES AND DOOR - SOLID WOOD CORE (SCW) AND FRAME - METAL FRAME (HM) HOLLOW METAL OR METAL KNOCK DOWN FRAME
- M.T. DESIGNATES EXTRUDED (SOLID) ALUMINUM FLOOR FINISH FLUSH TRANSITION THRESHOLD; ADAAG/HC "BARRIER FREE" ACCESSIBLE CROSS-OVER (MAX. 1/2" THK'N.)
- E.J. EXPANSION CONSTRUCTION JOINT EXTERIOR (NOM. 1/2"); TRAFFIC GRADE BITUMINOUS MATERIAL; PERIMETER CONCRETE SLAB TO WALL
- M.T.S. ALUM. EXTRUDED THRESHOLD TRANSITION STRIP; APPROPRIATE FINISH STRIP, JOINT SYSTEM AT FINISHED FLOORING CHANGES FROM ONE MATERIAL TO ANOTHER; TYPICAL FINISHED CARPET TO TAPERED TO FINISHED CONCRETE SLAB; DISABILITY ACCESSIBLE (ANSI/ADAAG)
- C.T.J. CONCRETE FLAT SLAB CONTROL JOINT; PER-FORMED "T-SHAPE" PLASTIC CRACK CONTROL STRIP (OPTIONAL: SAW CUT CONTROL JOINT; SAW CUT TOP SURFACE)
- C.J. CONSTRUCTION JOINT; SEPARATE FLOOR SLAB POUR W/ FORMED CONT. (SHEAR) KEYWAY AT ABUTTING PERIMETER SLAB EDGES
- C.S. CONCRETE SLAB CONTROL JOINT; TOOLED JOINT
- (*) ARCHITECTURAL VERTICAL CONTROL; SURFACE FINISHED ELEVATION POINT
- FD FLOOR DRAIN, APPROXIMATE LOCATION CAST-IN-SLAB RECESS AND SLOPE FOR DRAINAGE (MIN 16" SQ. FLOOR SLAB TAPERED TO DROPPED INLET WASTE DRAIN) REFERENCE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
- (HC) DESIGNATES AS HANDICAPPED ACCESSIBILITY "ARCHITECTURAL BARRIER FREE" (CLEAR FLOOR AREA: 60" DIAMETER TURNING AND 60"x60" SQUARE SPACE DENOTED ADA/ANSI) (OR) 30"x48" FORWARD AND SIDE APPROACHES)

SYMBOL KEY



BUILDING LINE DEFINITION



VERTICAL CONTROL EQUIVALENTS:

FF - ARCHITECTURAL (DENOTED FOR SIMPLISTIC DESIGNS) FINISHED FIRST FLOOR ELEVATION (EL) = 0'-00" (0.00' A.F.F.)

FG - ARCHITECTURAL FINISHED GRADE ELEVATION (EL) = (-)3.000' A.F.F. (EST. 5'-0" FROM DESIGNATED BUILDING LINE)

EL FF - CIVL SITE PLAN = FINISHED SLAB ELEVATION (MHSL)

FG - FINISH GRADE (BUILDING GRADE PERIMETER) = EL (T.B.D.) MSL (EST. 12'-0" FROM DESIGNATED BUILDING LINE) (SEE CIVL SITE DWG'S FOR ACTUAL FINISH GRADE (DECIMAL (FT) DESIGNATION)

CONVERSION CHART

US STANDARD STEEL GAUGE EQUIVALENTS IN NOMINAL DIMENSIONS		
MINIMUM DELIVERED THICKNESS (mm)	REFERENCE GAUGE STEEL SHEET (g2)	REFERENCE THICKNESS ALUMINUM 3003 (mm)
18	25	0.018~0.021*
27	22	0.027~0.031*
33	20	0.035~0.040*
43	18	0.042~0.048*
54	16	0.050~0.055*
68	14	0.064~0.071*
97	12	0.080~0.102*

GENERAL ABBREVIATIONS

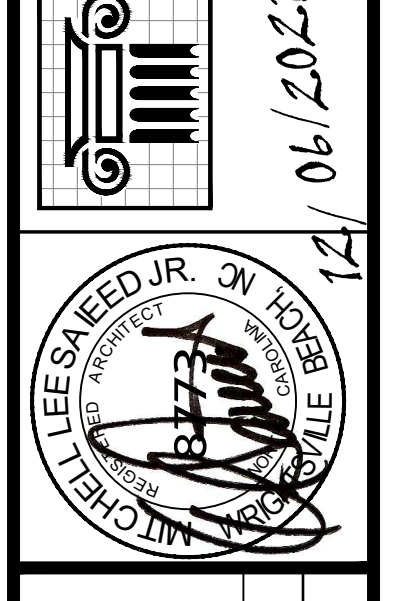
ADA AMERICAN/DISABILITY ACT	EXH EXHAUST FAN*	O/C ON CENTER
ADAAG ADA ACCESSIBLE GUIDELINES	EXP EXPANSION	OD OUTSIDE DIAMETER
AFV ABOVE FINISHED FLOOR*	EJ EXPANSION JOINT	OPP OPPOSITE
AFG ABOVE FINISHED GRADE*	EXST EXISTING	OVHD OVERHEAD
AGOR AGGREGATE	EXT EXTERIOR	
AIR ANCHOR	FACP FIRE ALARM CONTROL PANEL*	PEMB PRE-ENGINEERED METAL (MFR) BUILDING
ALUM ALUMINUM*	FD FLOOR DRAIN	PERP PERPENDICULAR
ALT ALTERNATE*	FN FOUNDATION	PLYWOOD PLYWOOD
AND ANDRIZED	FE FIRE EXTINGUISHER CABINET*	PNL PANEL
ASSY ASSEMBLY	FRP FIBERGLASS*	PRR PARR
ATTACH ATTACHMENT	FIN FL FINISH FLOOR*	PREFAB PREFABRICATED
AVG AVERAGE	FIN GR FINISH GRADE*	PREFIN PREFINISHED*
AHJ AUTHORITY HAVING JURISDICTION	FLR FLOORING(S)*	PRELIM PRELIMINARY*
	FTG FOOTING	PSF POUNDS PER SQUARE FOOT
		PSI POUNDS PER SQUARE INCH
		PTD PAINTED
BRD BOARD		
BTUM BITUMINOUS	GA GAGE	REF REFERENCE
BL BUILDING LINE	GALV GALVANIZED	REIN REINFORCE(D)(ING)(MENT)
BLDG BUILDING	GRD GROUND	REQ REQUIRED
BLK BLOCK	GYP BD GYPSUM BOARD*	RO ROUGH OPENING
BM BEAM		
BOT BOTTOM		
BRG BEARING	H PLAM HIGH PRESSURE LAMINATE*	SCHED SCHEDULE
	HC HOLLOW CORE*	SHT SHEET(ING)*
C/C CENTER TO CENTER*	HDW HARDWARE*	SIM SIMILAR
CABT CABINET	HGT HEIGHT	SPCL SPECIAL
CPT CARPET	HORIZ HORIZONTAL	SPEC SPECIFICATION
CAF CAVITY	HVAC HEATING, VENTILATION, AIR CONDITIONING*	SF (SqF) SQUARE FOOT
CD CORNER GUARD*	HWT HOT WATER HEATER	SS STAINLESS STEEL
CEMT CEMENT		STC SOUND TRANSMISSION CLASS*
CEP CERAMIC		STD STANDARD
CHAN CHANNEL	INSUL INSULATION	STL STEEL
CHRP CHANNEL	INTR INTERIOR	STOR STORAGE
CJ CONSTRUCTION JOINT		STRUCT STRUCTURAL*
CL CENTER LINE	JST JOST*	
CLD CEILING	JNT JOINT	T&B TOP AND BOTTOM
CJ CONTROL JOINT		T&G TONGUE AND GROOVE
CMU CONCRETE MASONRY UNIT*	LAM LAMINATION	TOP OF (CONSTRUCTED) ELEMENT)
CO CASED OPENING*	LAV LAVATORY	THK THICKNESS*
COL COLUMN	LONG LONGITUDINAL	THRU THROUGH
CONC CONCRETE	LPT LOW POINT*	TEMP TEMPERED GLASS*
CONN CONNECTION	LT WT LIGHTWEIGHT*	TOL TOTAL
CONST CONSTRUCTION	LTO LIGHTING PANEL*	TV TELEVISION
CONT CONTINUOUS (ACTION)	LVL LAMINATED VENEER LUMBER	TYP TYPICAL
		TEL TELEPHONE CABINET*
		TYP TYPICAL
		T&D TO BE DETERMINE
DBL DOUBLE	MASO MASONRY*	
DEMO DEMOLITION*	MAT MATERIAL	UNO UNLESS OTHERWISE NOTED*
DET DETAIL	MAXIMUM	
DF DRINKING FOUNTAIN	MECH MECHANICAL	
DM DIMENSION	MFG MANUFACTURING	VCT VINY COMPOSITION TILE*
DIST DISTANCE	MIN MINIMUM	VERT VERTICAL
DN DOWN	MISC MISCELLANEOUS	
DS DOWNSPOUT	MO MASONRY OPENING	
DWG DRAWING	MR MOISTURE RESISTANT	
	MT MOUNTED	
EL ELEVATION	NA NOT APPLICABLE	
EMER EMERGENCY	NIC NOT IN CONTRACT	
EQ EQUALLY SPACED	NOM NOMINAL	
EQUI EQUIPMENT*	NTS NOT TO SCALE	
EST ESTIMATE		
EW EACH WAY		
EWG ELECTRICAL WATER COOLER		
EWL ELECTRICAL WATER HEATER*		
		XFMR TRANSFORMER

GENERAL ACCESSIBILITY REQUIREMENTS

- THE BUILDING OWNER AND GENERAL CONTRACTOR SHALL INSURE THAT THIS FACILITY SHALL BE "BARRIER FREE" ACCESSIBLE TO AND USABLE BY PERSON(S) WITH DISABILITIES. ACCORDING TO THE LATEST EDITION TO THE ICC-IBC/NCBC 2012 CHAPTER 11 & ICC/ANSI A117.1 ACCESSIBILITY CODES REQUIREMENTS OF THE APPLICABLE STANDARDS. THE FOLLOWING IS A PARTIAL LIST (BUT NOT LIMITED TO) OF REQUIREMENTS. (REFERENCE 1/N103 FOR ADDITIONAL DETAILS AND GENERAL NOTES)
- OPERABLE DOOR HARDWARE SHALL BE MOUNTED BETWEEN 30"(MIN.) AND 42"(MAX.) ABOVE FLOOR OR GROUND LEVEL AND BE LEVER TYPE, DESIGNATED FOR (HC) ACCESSIBLE.
 - TOILETS ROOMS & ACCESSORIES:
 - LAVATORY TO HAVE LEVER HANDLES, SPRING FAUCETS OR SELF METERING FAUCETS.
 - A COAT HOOK 48" ABOVE THE FLOOR SHALL BE MOUNTED ON THE BACK SIDE OF THE HANDICAPPED STALL DOOR (OR) BACK OF ENTRY DOOR.
 - LOCATE THE WATER CLOSET (MIN.)16.6" TO (MAX)17.5" FROM THE CENTER LINE OF THE FIXTURE TO THE FINISHED WALL SURFACE. THE SEAT WILL BE 17" TO 19" ABOVE THE FLOOR TO THE TOP OF SEAT. TANK TYPE FLUSH LEVER SHALL BE POSITION TOWARD (SIDE APPROACH) ACCESSIBLE CLEAR FLOOR AREA FOR SIDE REAR.
 - PROVIDE ONE 42" AND ONE 36" LONG x 1 1/2" OUTSIDE DIAMETER PEENED GRAB BARS, 1 1/2" FROM THE WALL, WITH (36) BEHIND TOILET AT 6" FROM THE WALL, AND (42) ADJACENT TO AT 12" FROM THE WALL AND CENTERLINE MEASURED 33"-36" PARALLEL TO AND ABOVE THE FLOOR. PROVIDE ADDITIONAL SIMILAR 18" VERTICAL PULL BAR 1-1/2" ABOVE HORIZONTAL SIDE BAR CENTERLINE MEASURED AVE. 39"-41" FROM REAR WALL.
 - LAVATORY TO BE MOUNTED 34"(MAX.) ABOVE THE FINISHED FLOOR TO RIM WITH CLEAR FLOOR KNEE SPACE OF 30" IN WIDTH AND 27" IN CLEAR HEIGHT, (29" CLEAR UNDER FRONT EDGE). EXPOSED WATER/WASTE PLUMBING SHALL BE CLEAR OF ACCESSIBLE FLOOR AREA AND PROTECTED WITH PROPRIETARY VENDOR SUPPLIED "VINYL INSULATED PROTECTION COVERS" SHALL BE PROVIDED TO EACH SERVICE LINE (SIM. MFG. "TRUBERO")
 - INSTALL MIRROR 40"(MAX.) ABOVE THE FINISHED FLOOR (BOTTOM FIN. EDGE) AND (72" TOP FIN. EDGE).

THIS SHEET SHOWS BASIC DRAFTING STANDARDS
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**Proposed Dispatch Office Building for
 Crete Solutions, LLC**
 ACCESSIBILITY DETAILS, SYMBOLS AND LEGENDS
 Contract Documents - Issued for Construction

date 12/01/21
 job no. CRETE/JUL
 drawn by MSAIEED
 checked by MSAIEED
 drawing no.
N100
 revision no. 0

no.	0
date	12/06/21
revision	ISSUE FOR CODE ENFORCEMENT REVIEW & APPROVAL

GENERAL CONDITIONS

- 1. THE USE OF THESE DOCUMENTS ARE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED...
2. GENERAL CONTRACTOR AND ASSOCIATED TRADES (SUB-CONTRACTORS) SHALL TO BE FAMILIAR WITH ALL LOCAL ZONING CRITERIA...
3. THE GENERAL CONTRACTOR SHALL TO PROTECT NEWLY INSTALLED MATERIALS, MILLWORK, BUILT-INS AND FINISHES...
4. THE GENERAL CONTRACTOR SHALL FURNISH ALL TEMPORARY UTILITIES REQUIRED TO PERFORM THEIR WORK INCLUDING BUT NOT LIMITED TO ELECTRICITY, WATER, HEAT, AND TELEPHONE...
5. THE GENERAL CONTRACTOR SHALL MAINTAIN AT THE SITE A WORKING DOCUMENT PRINT SET...
6. THE GENERAL CONTRACTOR SHALL DILIGENTLY PERFORM THE WORK TO COMPLETION AND SHALL AT ALL TIMES GIVE THE PERSONAL SUPERVISION AND ATTENTION THERETO...
7. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR LAYOUT AND FOR THAT OF THEIR TRADE SUB-CONTRACTORS...
8. THE GENERAL CONTRACTOR SHALL OBTAIN, MAINTAIN DURING THE COURSE OF WORK WORKMAN'S COMPENSATION, COMPREHENSIVE LIABILITY INSURANCE INCLUDING COVERAGE FOR BODILY INJURY, PROPERTY DAMAGE...
9. GENERAL CONTRACTOR SHALL GUARANTEE ALL WORK INCLUDING WORK PERFORMED BY SUB-CONTRACTORS FOR A PERIOD OF ONE (1) YEAR COMMENCING WITH THE DATE OF TOTAL COMPLETION...
10. GENERAL CONTRACTOR AND TRADES SHALL PERFORM HIGH QUALITY PROFESSIONAL WORK, JOIN MATERIALS TO UNIFORM, ACCURATE FITS...
11. THE GENERAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL MILLWORK ITEMS FOR THE DEVELOPER'S REVIEW...
12. WARRANTIES AND GUARANTEES: IN ADDITION TO OTHER GUARANTEES HEREIN REQUIRED, GENERAL CONTRACTOR HEREBY GUARANTEES THAT AT DELIVERY TO THE OWNER(S) FOR ACCEPTANCE THE WORK TO BE PERFORMED UNDER THIS AGREEMENT...
13. ANY ADDITIONAL WORK, CHANGES, ADDITIONAL SERVICES OR FEES SHALL NOT OCCUR OR BE PROVIDED WITHOUT WRITTEN CONFIRMATION OF THE LEASE TENANT/OWNER PRIOR TO EXECUTION...
14. THE ENTIRE AREA OF WORK IS TO BE MAINTAINED IN A NEAT AND ORDERLY MANNER AT ALL TIMES AND POLICED AT INTERVALS TO PREVENT ACCUMULATION OF TRASH AND RUBBISH...
15. CLEAN UP AND JOB COMPLETION.
A. ALL PUNCH LIST ITEMS SHALL BE COMPLETED WITH THE SATISFACTION OF [LEASE TENANT AND BUILDING OWNER(S)] REPRESENTATIVE BEFORE FINAL PROJECT RELEASE...
B. PREMISES TO BE TURNED OVER CLEAR OF ALL DEBRIS, PACKING BOXES, WRAPPINGS, AND EXCESS MATERIALS.
C. ALL GLASS TO BE CLEANED OF PROTECTIVE PADS, MASTIC AND MARKINGS.
D. ALL ELECTRICAL PANELS AND BREAKERS TO BE PROPERLY MARKED AND A TYPED SCHEDULE TO BE PROVIDED.
E. A COMPLETE LIST OF ALL SUB NAMES, ADDRESSES, AND TELEPHONE NUMBERS, TO BE SUBMITTED TO [LEASE TENANT AND BUILDING OWNER(S)]

GEN. ARCHITECTURAL CONSTRUCTION & PLAN NOTES

THESE WORKING DOCUMENTS HAVE BEEN PREPARED FOR THE BUILDING OWNER(S) AND BY THE BUILDING OWNER(S)' DIRECTIONS WITH SELECTED GENERAL CONTRACTOR AS A DESIGN/BUILD SERVICES FOR THE PURPOSE OF DEPICTING OVERALL BUILDING GEOMETRY, AND THE ASSEMBLY OF ARCHITECTURAL ELEMENTS AND THEIR COMPLIANCE WITH LOCAL BUILDING CODE REQUIREMENTS FOR BUILDING TYPE, MATERIAL FINISHES, ACCESS TO EXITS, AND EXIT SYSTEMS ONLY...
THESE WORKING DRAWINGS SHOULD PROVIDE THE BUILDING OWNER(S)/GENERAL CONTRACTOR A BASIC SET OF CONTRACT DOCUMENTS (AS A DESIGN/BUILD MECHANISM) FOR PRICE BIDDING AND PERMITTING...
THE BUILDING OWNER'S ASSIGNED AGENT (AND/OR) GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THESE CONTRACTS DOCUMENT REVIEWED FOR ALL NECESSARY APPROVALS AND OBTAINING ALL REQUIRED PERMITS, AND APPLICATIONS IN ACCORDANCE WITH ALL APPLICABLE STATE AND COUNTY BUILDING CODES, AND LOCAL AREA ZONING ORDINANCE, FROM LOCAL AUTHORITIES HAVING JURISDICTION...
THE BUILDING OWNER'S GENERAL CONTRACTOR SHALL INSURE THAT THIS FACILITY WILL BE ACCESSIBLE TO AND USABLE BY PERSON(S) WITH DISABILITIES...
BUILDING OWNER(S) SHALL SPECIFY COMMERCIAL TYPE OF APPLIANCES (KITCHEN EQUIPMENT) AND CABINETY MILLWORKS (KITCHEN & BAR) DESIGN LAYOUTS WITH MATERIAL SELECTIONS FROM VENDOR'S DESIGN ARRANGEMENT INSTALLATION SHOP DRAWINGS AND PLUMBING FIXTURES FOR SUB-CONTRACTORS TO INSTALL...
GENERAL CONTRACTOR SHALL COORDINATE W/ BUILDING OWNER(S)' SPECIALTY EQUIPMENT VENDOR'S PRODUCT 'CUT SHEETS' FOR REQUIRED SERVICE UTILITY CONNECTIONS AND LOCATIONS OF ALL WALL OR CEILING MOUNTED EQUIPMENT...
BUILDING OWNER(S) TO COORDINATE WITH GENERAL CONTRACTOR'S MILLWORK CONTRACTOR FOR CUSTOM DESIGNS AND SELECTED FINISHES FOR CABINETY BUILT-INS & CLOSET STORAGE UNITS...
BUILDING OWNER SHALL REVIEW RESTROOM ACCESSORIES FOR FINAL APPROVAL...
GENERAL CONTRACTOR SHALL SUBMIT ALL PROPOSED SUBSTITUTIONS TO THE DESIGNER(S) OF RECORD IN WRITING WITH SUFFICIENT INFORMATION, SAMPLES AND DIFFERENCE IN COST FOR EVALUATION...
DO NOT SCALE DRAWINGS. GOVERN DIMENSIONS: LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS...
GENERAL CONTRACTOR SHALL LAYOUT WALL LOCATIONS AND CENTER LINE PLUMBING FIXTURE LOCATIONS AND REVIEW THIS LAYOUT WITH THE ARCHITECT AS NECESSARY...
HINGE SIDE OF DOOR TO BE MIN. 5" OFF INSIDE FACE OF PERPENDICULAR STUD WALL...
GENERAL CONTRACTOR SHALL PERFORM HIGH QUALITY PROFESSIONAL WORK, JOIN MATERIALS TO UNIFORM, ACCURATE FITS...
ALL MATERIAL SPECIFIED IS TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS...
ABSOLUTELY NO THRU ROOF PENETRATION ALLOWED WITHOUT BUILDING OWNER'S WRITTEN ACCEPTANCE AND GENERAL CONTRACTOR'S WRITTEN ASSURANCE TO MAINTAIN ROOF WARRANTY PER FINISHED ROOF PROPRIETARY MANUFACTURER RECOMMENDATIONS...
"SPECIFIC" GENERAL CONDITIONS: THE PRESENCE OF THE ARCHITECT'S REPRESENTATIVE (OR VISITING ARCHITECT) ON THE JOB SITE DOES NOT IMPLY CONCURRENCE OR APPROVAL OF THE WORK COMPLETED OR BEING PERFORMED DURING SITE VISITS...
JOB SITE SAFETY: DESIGN/BUILD ARCHITECTURAL FIRM (DESIGN ELEMENT, INC) DOES NOT HAVE CONTRACTUAL RESPONSIBILITY FOR "JOB SITE" SAFETY (AND) PROVIDING SERVICES INVOLVED IN CONSTRUCTION ACTIVITY...
SEVERE COASTAL ENVIRONMENT: DESIGN/BUILD ARCHITECTURAL FIRM (DESIGN ELEMENT, INC) DOES NOT HAVE CONTRACTUAL WARRANTIES FOR OWNER(S)' CONTRACTOR'S PRODUCT MATERIALS, METHODS OF CONSTRUCTION OR INSTALLATION AND MAINTENANCE PROCEDURES...

FINISH NOTES

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADVISING THE BUILDING OWNER(S) AND OWNER(S)' REPRESENTATIVE OF ANY QUESTIONS REGARDING THE FINISH SELECTIONS, FINISH SYSTEMS, METHOD OF APPLICATION, OR SCOPE OF WORK PRIOR TO PROCEEDING WITH THE WORK IN QUESTION...
ALL FLAME SPREAD RATINGS FOR INTERIOR FINISHES TO BE IN ACCORDANCE WITH IBC/NCBC-2012 CODE TABLE 605.9 AS FOLLOWS:
EXIT ACCESS CORRIDOR & OTHER EXITWAYS: MINIMUM CLASS "B"
ROOMS AND ENCLOSED SPACES: MINIMUM CLASS "C" OR BETTER.
THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD INSPECTION OF THE SURFACES TO RECEIVE DECORATIVE COLORED STAIN CONCRETE FINISH, PAINT OR WALL COVERING...
ALL GYPSUM BOARD AT DENOTED RATED PARTITIONS WALLS SHALL BE 5/8" FIRE CODE TYPE "X" (UL LISTED) GYPSUM BOARD CLOSED TO UNDERSIDE OF ROOF/FLOOR DECKS ABOVE IN COMPLIANCE WITH APPLICABLE CODES...
MOISTURE RESISTANT GYPSUM WALL BOARD FINISH (ALL WET AREAS AND ENTRY ALCOVES)
ALL FINISHED TRIM TO BE PAINT GRADE POPLAR SMOOTH SANDED FINISHED WITH SCARFED JOINTS AND MITERED CORNER JOINTS GLUED AND NAILED-NO BUTT JOINTS.
PLASTIC LAMINATE COLORS NOT SHOWN ON THE DRAWINGS WILL BE SELECTED AT THE TIME OF SHOP DRAWING SUBMITTAL BY GEN CONTRACTOR W/ OWNER'S APPROVAL...
INTERIOR PAINTING IF APPLICABLE
THE GENERAL CONTRACTOR SHALL SUBMIT FOR THE OWNER'S REPRESENTATIVE 12"x12" SAMPLES, IN DUPLICATES, OF ALL SPECIFIED FINISHES...
BEFORE PAINTING BEGINS, PAINTING CONTRACTOR SHALL VERIFY ALL INTERIOR GYPSUM WALL BOARD SURFACES HAVE RECEIVED A MIN. (6A-214) LEVEL FIVE (5) FINISH...
APPLICATION FOR ALL PAINTED SURFACES SHALL RECEIVE NOT LESS ONE (1) COAT HIGH BUILD (MIN. 35% SOLID) SURFACE PAINT PRIMER AND TWO (2) FINISHED COATS OF ACRYLIC LATEX PAINT SYSTEM, UNLESS OTHERWISE NOTED USING THE COMPLETE PAINT SYSTEM (SEALER, PRIMER, FINISH COAT, ETC.) AS RECOMMENDED BY THE PAINT MANUFACTURER AND ALL APPLICABLE MINIMUM TRADE STANDARDS...
CEILING(S): LATEX BASE - FLAT "MATTE" FINISH (ONLY IF GYPSUM BOARD)
WALL(S): LATEX BASE - EGG SHELL FINISH (ONLY IF GYPSUM BOARD)
LATEX BASE - SEMI-GLOSS FINISH (AT ALL PAINTED WALL SURFACES WITHIN BATHROOMS AND HIGH TRAFFIC AREAS: CORRIDORS)
TRIM: BASE, CROWN MOLDING, DOOR AND WINDOWS (EXCEPT SELECTED AREAS TO BE STAINED)
LATEX BASE - HIGH-GLOSS FINISH (ONLY IF WOOD OR MDF SELECTED)
ALL MATERIAL WORKMANSHIP OF PAINTED SURFACE SHALL PRODUCE A UNIFORM FINISH OF SMOOTH ROLLED OR BRUSHED WITH NO SKIPS, LAPS, OR STREAKS...
THE GENERAL CONTRACTOR SHALL, UPON COMPLETION, REMOVE ALL PAINT FROM WHERE IT HAS SPILLED, SPLASHED OR SPATTERED ON SURFACES, INCLUDING LIGHT FIXTURES, DIFFUSERS, REGISTERS, FITTINGS, ETC...
PAINTING CONTRACTOR TO FILL AND TOUCH UP ALL NAIL HOLES IN WOOD TRIM.
PAINTING CONTRACTOR SHALL PROVIDE CAULKING AROUND ALL INTERIOR AND EXTERIOR FINISHED WINDOW FRAMES, BUILT-INS, JOINTS AND INTERSECTIONS OF DISSIMILAR MATERIALS...
ALL WALLS SCHEDULED TO RECEIVE WALL COVERING SHALL BE PRIMED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
ALL STAINED WOODWORK TO BE MINIMUM TWO (2) COATS STAIN WITH MINIMUM TWO (2) COATS SATIN FINISH POLYURETHANE.
EXTERIOR CONCRETE: SURFACE SEALER FINISH
ALL EXPOSED CONCRETE SHALL BE FINISHED W/ (2) COATS CONCRETE WATERPROOFING SEALER W/ UV BLOCKERS (SIM. MFG. BENJAMIN MOORE & CO. "SEALER 075"; COLOR: CLEAR)
WALLCOVER IF APPLICABLE
WALLCOVERING IF SELECTED BY OWNER(S) SHALL BE SUPPLIED BY INTERIOR DESIGNER AND INSTALLED BY GENERAL CONTRACTOR. "ABSOLUTELY NO" VINYL WALLCOVERING SHALL BE ALLOWED ON ANY INTERIOR SURFACE FINISHES OF EXTERIOR WALLS...
ALL WALLS (IF SCHEDULED OR DESIRED BY OWNER'S INTENT) TO RECEIVE WALL FINISH COVERING SHALL BE GYPSUM WALL BOARD PAINTED PRIMED BEFORE FINISHING PRIMER IS APPLIED...
WALLCOVERING TO BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS INCLUDING RECOMMENDED ADHESIVE...
WALLCOVERING SURFACES TO BE CLEANED OF ALL ADHESIVE RESIDUE...
ALL EXTRA WALLCOVERING ROLLS TO REMAIN AT JOB SITE.
CLEAN MATERIAL OF EXCESS PASTE, DIRT, DEBRIS, OR LABELS.

CONCRETE WORK (CONTINUED)

ALL FOUNDATIONS (FOOTINGS) SHALL BEAR ON UNDISTURBED (WITHOUT ORGANIC) SOIL (OR) SELECT FILL CAPABLE OF SUPPORTING A DESIGN BEARING PRESSURE (AS DENOTED IN STRUCTURAL CONTRACT DOCUMENTS AND SOIL ENGINEER'S REPORT); WHERE THE BOTTOM OF FOOTER ELEVATION DOES NOT EXTEND TO SUITABLE UNDISTURBED SUBSOIL...
CONCRETE FLOOR SLAB-ON-GRADE SHALL OBTAIN A COMPRESSIVE STRENGTH OF (MIN.) 4000psi (LOW SLUMP POUR) AT AN AGE OF 28 DAYS...
ALL REINFORCING STEEL BARS SHALL BE IN ACCORDANCE WITH ASTM A-615, GRADE 60 ksi; WELD WIRE FABRIC (WWF) WITH ASTM A185;
PLACEMENT AND PROTECTION (AND CLEAN FROM SURFACE RUST) OF STEEL REINFORCING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF A.C.I. 318 (LATEST EDITION); MINIMUM CLEAR CONCRETE COVER CAST AGAINST AND PERMANENTLY EXPOSED TO GRADE: (3") EXPOSED TO WEATHER ABOVE GRADE: (2")
WHERE CONTINUOUS REINFORCING BARS ARE REQUIRED THERE SHALL BE A MIN. 36 (X) BAR DIAMETER AT END LAPPED SPLICES
ALL CONCRETE MASONRY UNITS SHALL BE IN ACCORDANCE OF WITH ASTM C-90 TYPE I GRADE N-1 (FM 1350psi); GROUT FOR MASONRY WALL SHALL COMPLY WITH ASTM C-476, AND SHALL BE PROPORTIONED TO OBTAIN A 28 DAY COMPRESSIVE STRENGTH OF 2500psi; ALL MORTAR SHALL BE ASTM C-270, TYPE M OR S.
CONVENTIONAL 2x WOOD FRAMING
LUMBER ABOVE GROUND AND EXPOSED TO WEATHER SHALL BE PRESSURE TREATED PER USE CATEGORY UC1-3 IN ACCORDANCE WITH AWP A C2/C9. LUMBER IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PER USE CATEGORY UC1-3
JOISTS, STUDS, RAFTERS AND GIRDERS SHALL BE GRADE NO. 2 SOUTHERN YELLOW PINE (SYP); OR NO. 1 STRUCTURAL GRADE; SPRUCE PINE FIR (SPF)
PROVIDE SOLID BLOCKING LOCATED AT 1/8" POINTS FOR EXTERIOR LOAD BEARING WALLS.
SHEAR WALLS SHALL BE NOM. 5/8" (APA C-D EXTERIOR GRADE PANELS. FASTEN WITH 8d RING SHANK NAILS AT 6" O.C. AT ALL PANEL EDGES AND 12" O.C. AT ALL "IN-FILL" INTERMEDIATE SUPPORTS.
ROOF SHEATHING SHALL BE NOM. 3/4" (APA C-D EXTERIOR GRADE PLYWOOD PANELS OR APPROVED EQUAL. PLACE WITH LONG DIMENSION PERPENDICULAR TO FRAMING; STAGGER END JOINTS WITH 8d HOT-DIPPED GALVANIZED BOX NAILS AT 6" O.C. AT ALL SUPPORTED EDGES...
MANUFACTURED ENGINEERED ROOF FRAMED TRUSSES
CONTRACT DOCUMENTS (WORKING DRAWINGS) SHOW BASIC BLOCKING ARRANGEMENTS, WORK POINTS, TIMBER TRUSSES, FRAMING DETAILS AND BUILDING CROSS SECTIONS...
GENERAL STRUCTURAL NOTES (SEE FRAMING DRAWINGS "BUILDING ANALYSIS SUMMARY FOR ADDITIONAL DETAILED INFORMATION)
1. DESIGN LIVE LOADS
ROOF: DL 10 PSF LL 20.0 PSF
COLLATERAL LOAD: 5.0 PSF
(COLLATERAL LOADS SHALL NOT BE USED IN WIND UPLIFT LOAD CASES)
2. WIND LOADS
BASIC WIND VELOCITY: (MIN) 118 MPH
EXPOSURE CLASS: B
GENERAL CONTRACTOR (GC) TO HAVE WALL SECTIONS AND FRAMING SCHEMATIC PLANS REVIEWED BY PRE-FAB/ENGINEERED FLOOR, ROOF & BEAM MANUFACTURER BEFORE COST ESTIMATING AND CONSTRUCTION BEGINS...
IF REQUESTED BY AUTHORITIES HAVING JURISDICTION, GENERAL CONTRACTOR SHALL HAVE TRUSS MANUFACTURER SUBMIT FOR APPROVAL: SEALED SHOP DRAWINGS WITH DESIGN CALCULATIONS BY AN ENGINEER REGISTERED IN N.C.
THE GENERAL CONTRACTOR DURING CONSTRUCTION AND ERECTION SHALL ADEQUATELY BRACE AND SUPPORT ALL FRAMING UNTIL ALL CONNECTIONS, PERMANENT BRACING, AND ROOF DECK ARE IN PLACE BEFORE FINAL PLACEMENT AND CONSTRUCTION OF ROOF TRUSSES...
MECHANICAL ELECTRICAL, PLUMBING DESIGNERS-CONTRACTORS (IF REQUIRED FIRE SPRINKLER) AND RESPECTED TRADE SUB-CONTRACTOR(S) TO COORDINATE WITH (GENERAL CONTRACTOR) ANY PROPOSED DUCTWORK AND PIPING DESIGNATIONS RUNNING THRU MANUFACTURED TRUSSES...
MANUFACTURED EXTERIOR VINYL SIDING AND SOFFIT
THE GENERAL CONTRACTOR SHALL REFERENCE PROPRIETARY MANUFACTURER'S COMMERCIAL PROJECT INSTALLATION INSTRUCTIONS AND ICC-ES PRODUCT EVALUATION REPORT ESR-1066 (REISSUED MAY 2016) FOR DETAILED INFORMATION

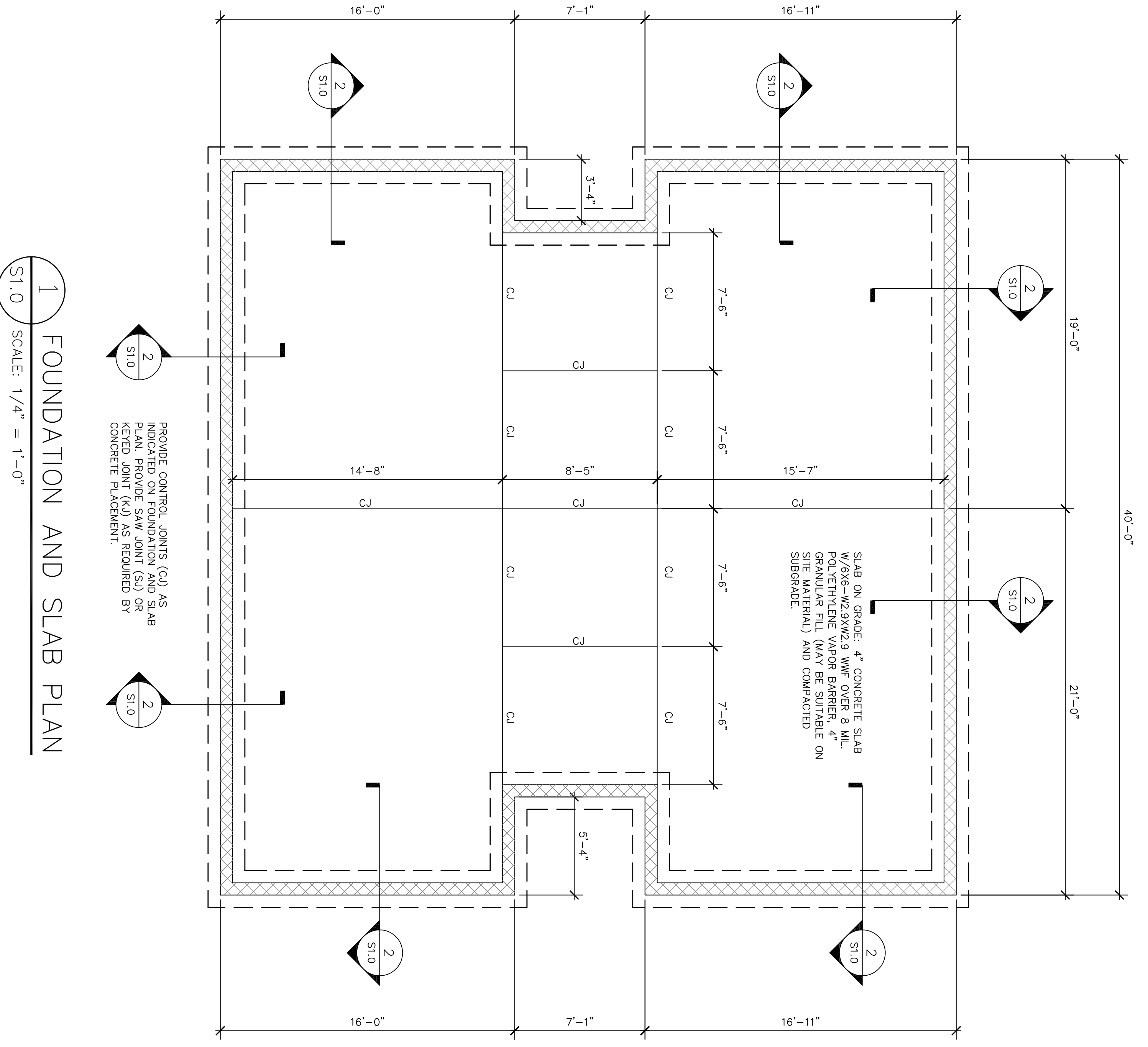
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Table with 4 columns: no., date, revision, issue for code enforcement review & approval. Row 1: 0, 12/06/21, Revision, ISSUE FOR CODE ENFORCEMENT REVIEW & APPROVAL.

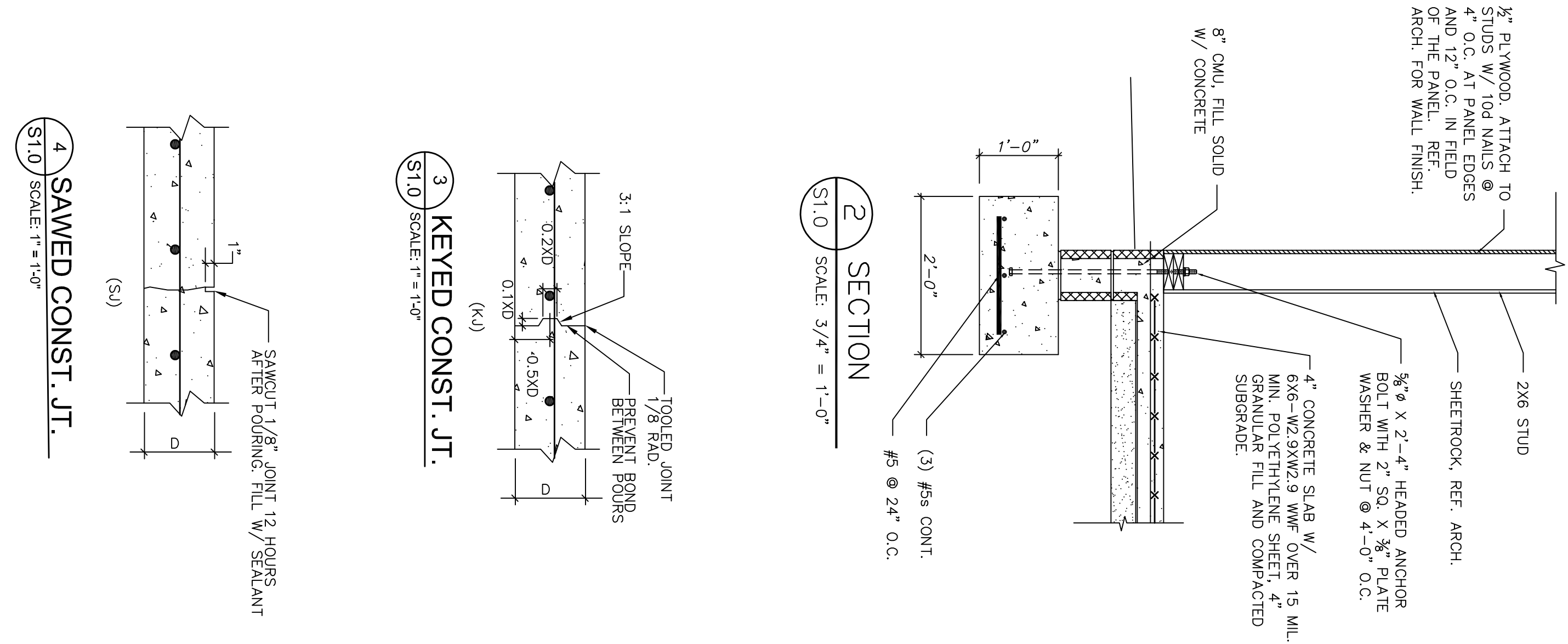
Design Elements logo. Michael L. Saibed, Architect / President. 1213 Culbreth Drive, Suite 142, Wilmington, North Carolina 28405. Phone: 910-253-1010.

Proposed Dispatch Office Building for Crete Solutions, LLC. CRETE SOLUTIONS, LLC logo. 2544 US 401 N, Lillington, North Carolina 27546. Contract Documents - Issued for Construction. Job status: job status. Date: 12/01/21. Job no.: CRETE/JLL. Drawn by: MSAIEED. Checked by: MSAIEED. Drawing no.: N101. Revision no.: 0.

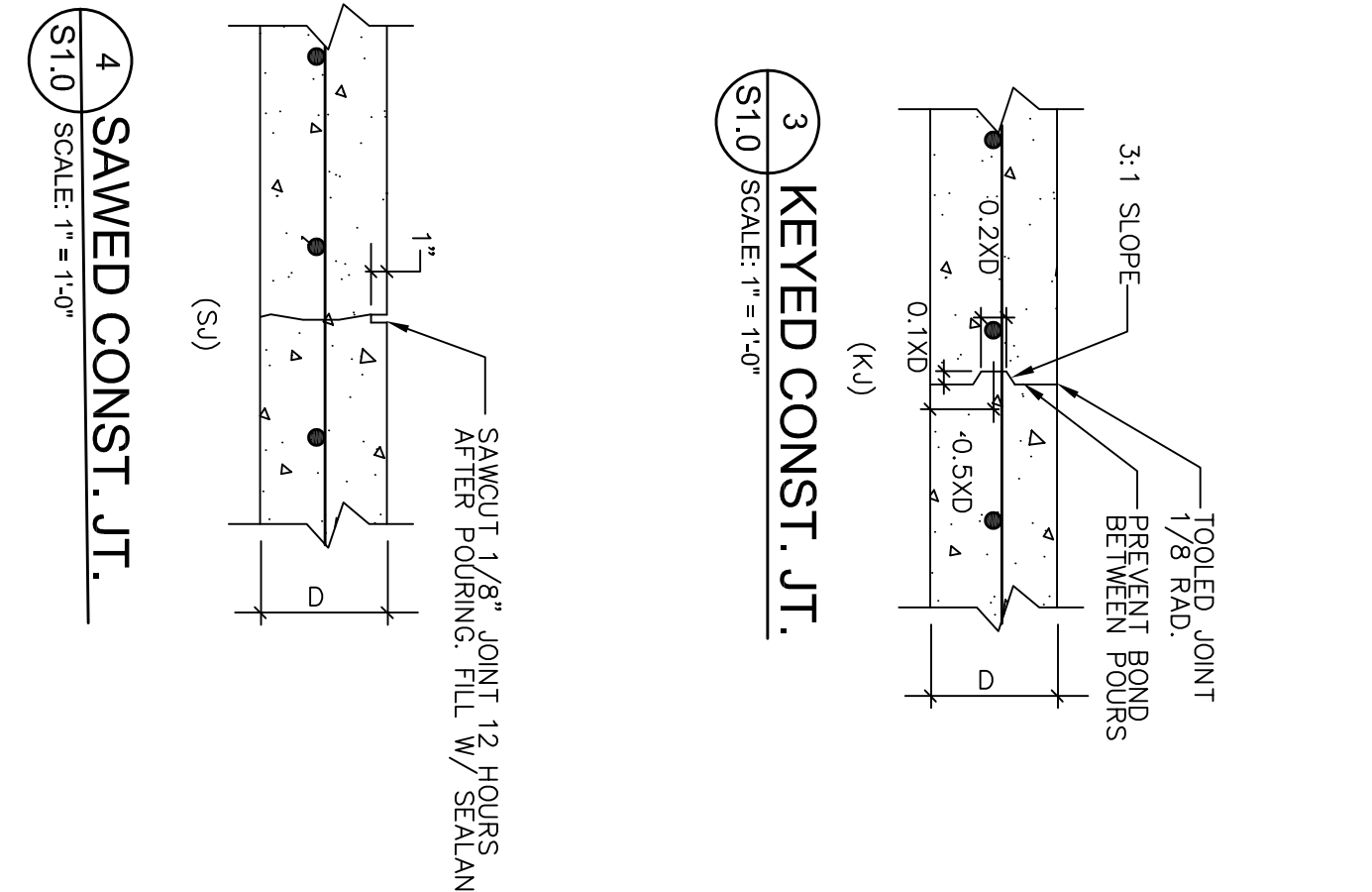
no.	date	revision
0	12/06/21	ISSUE FOR CODE ENFORCEMENT REVIEW & APPROVAL



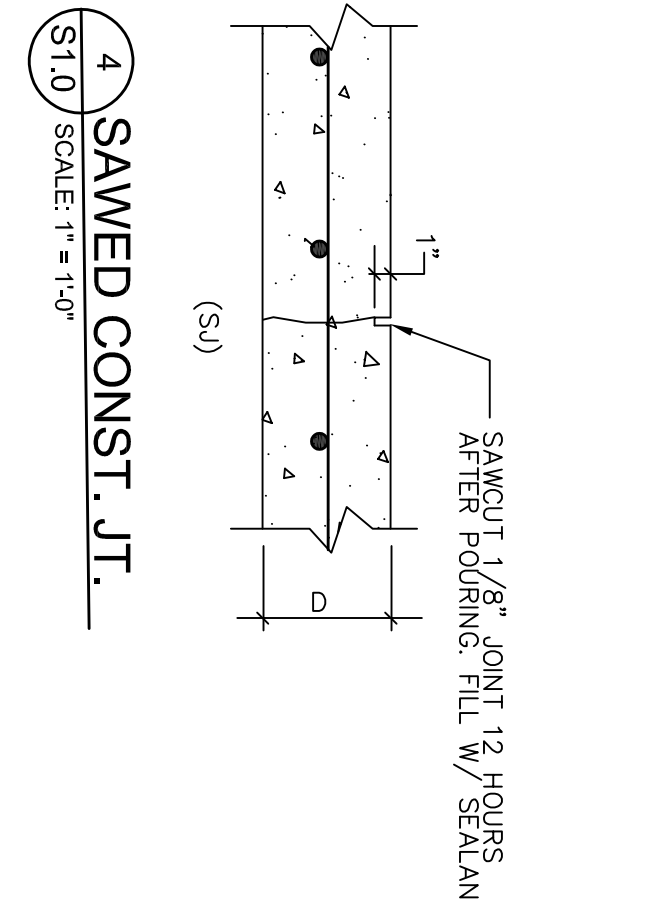
1 FOUNDATION AND SLAB PLAN
SCALE: 1/4" = 1'-0"



2 SECTION
SCALE: 3/4" = 1'-0"



3 KEYED CONST. JT.
SCALE: 1" = 1'-0"



4 SAWED CONST. JT.
SCALE: 1" = 1'-0"

STRUCTURAL NOTES

- GENERAL**
- DESIGN LOADS:
 - ROOF: LIVE LOAD 20 PSF
 - FLOOR: LIVE LOAD 150 PSF
- BASIC WIND DESIGN VELOCITY: 118 MPH (N.C. STATE BUILDING CODE LATEST EDITION)
DESIGN PRESSURES PER ASCE 7-10 EXPOSURE B
- IMPORTANCE FACTORS: Wind (W) 1.0
Snow (S) 1.0
Seismic (E) 1.0
- COLLATERAL LOAD: 5.0 psf
GROUND SNOW LOAD: 15.0 psf
WIND LOAD: Basic Wind Speed 118 MPH (ASCE-7-10)
Exposure Category B
Wind Base Shears (for MWFS) $V_x = 85.0K$ $V_y = 48.0K$
- SEISMIC DESIGN CATEGORY A
SEISMIC DESIGN CATEGORY DB
Provide the following Seismic Design Parameters:
Seismic Use Group _____
Spectral Response Acceleration $S_s = 29.24 \text{ kg}$ $S_1 = 9.7 \text{ kg}$
Site Classification _____
Basic Structural System _____
X Bearing Wall _____
Dual w/Intermediate R/C or Special Steel Moment Frame _____
Inverted Pendulum _____
Seismic base shear $V_x = 31.6$ $V_y = 31.6$
Analysis Procedure _____
Architectural, Mechanical, Components anchored? _____
Model _____
LATERAL DESIGN CONTROL: Earthquake _____ Wind _____
SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) _____
Presumptive Bearing Capacity _____
Pile size, type, and capacity _____

- LAYOUT**
- THE CONTRACTOR SHALL PROVIDE ALL LAYOUT REQUIRED TO CONSTRUCT HIS WORK.
 - STRUCTURE SHALL BE BRACED UNTIL CONSTRUCTION IS COMPLETE.
- FOUNDATION**
- FOOTING DESIGN IS BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
- CAST-IN-PLACE CONCRETE**
- CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS: 4000 PSI
 - WATER/CEMENT RATIO 0.45
 - MAXIMUM SLUMP 4.0 INCHES
 - REINFORCING STEEL: ASTM A615, GRADE 60
 - WELODED WIRE MESH: ASTM A185
 - MINIMUM CLEAR COVER ON REINFORCING: PER ACI 318 (LATEST EDITION)
 - DOES AND CONTINUOUS REINFORCING SHALL HAVE A MINIMUM LAP OF 30 BAR DIAMETERS, BUT SHALL NOT BE LESS THAN 24 INCHES.
 - PROVIDE AIR ENTRAINMENT OF 4 TO 6 PERCENT IN EXTERIOR CONCRETE.
- STRUCTURAL TIMBER**
- LUMBER SHALL BE SOUTHERN YELLOW PINE OR SPF GRADE 2 MINIMUM.
 - ALL WORK SHALL COMPLY WITH THE N.C. STATE BUILDING CODE (LATEST EDITION). WOOD CONNECTIONS AND DETAILS NOT SHOWN ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH THE "WOOD CONSTRUCTION" CHAPTER AND THE FASTENING SCHEDULES OF THE N.C. STATE BUILDING CODE.
 - LUMBER IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED WITH CA-C TO 0.25 PCF RETENTION.
 - LUMBER ABOVE GROUND AND EXPOSED TO WEATHER SHALL BE PRESSURE TREATED WITH CA-C TO 0.25 PCF RETENTION.
- WOOD TRUSS GENERAL NOTES**
- TRUSS AND DETAILS ON THESE DRAWINGS ARE FOR ESTIMATING PURPOSES ONLY AND SUBJECT TO MODIFICATION DEPENDING ON THE PARTICULAR TRUSS USED.
 - TRUSS MANUFACTURER SHALL SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS TO THE ENGINEER OF RECORD FOR APPROVAL BASED ON THE INFORMATION PROVIDED.
 - THE DRAWINGS AND CALCULATIONS SHALL BE SEALED BY AN ENGINEER LICENSED IN THE STATE OF NORTH CAROLINA.
 - DURING CONSTRUCTION AND ERECTION, THE CONTRACTOR SHALL ADEQUATELY BRACE ROOF DECK AND ALL TRUSSES UNTIL ALL CONNECTIONS, PERMANENT BRACINGS, AND TRUSS LOADING:

- WOOD TRUSSES**
- TOP CHORD DL = 10 PSF WIND = 118 MPH
BOTTOM CHORD DL = 10 PSF LL = 10 PSF (NON-STORAGE)
WIND = 118 MPH

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Lillington, North Carolina 27546

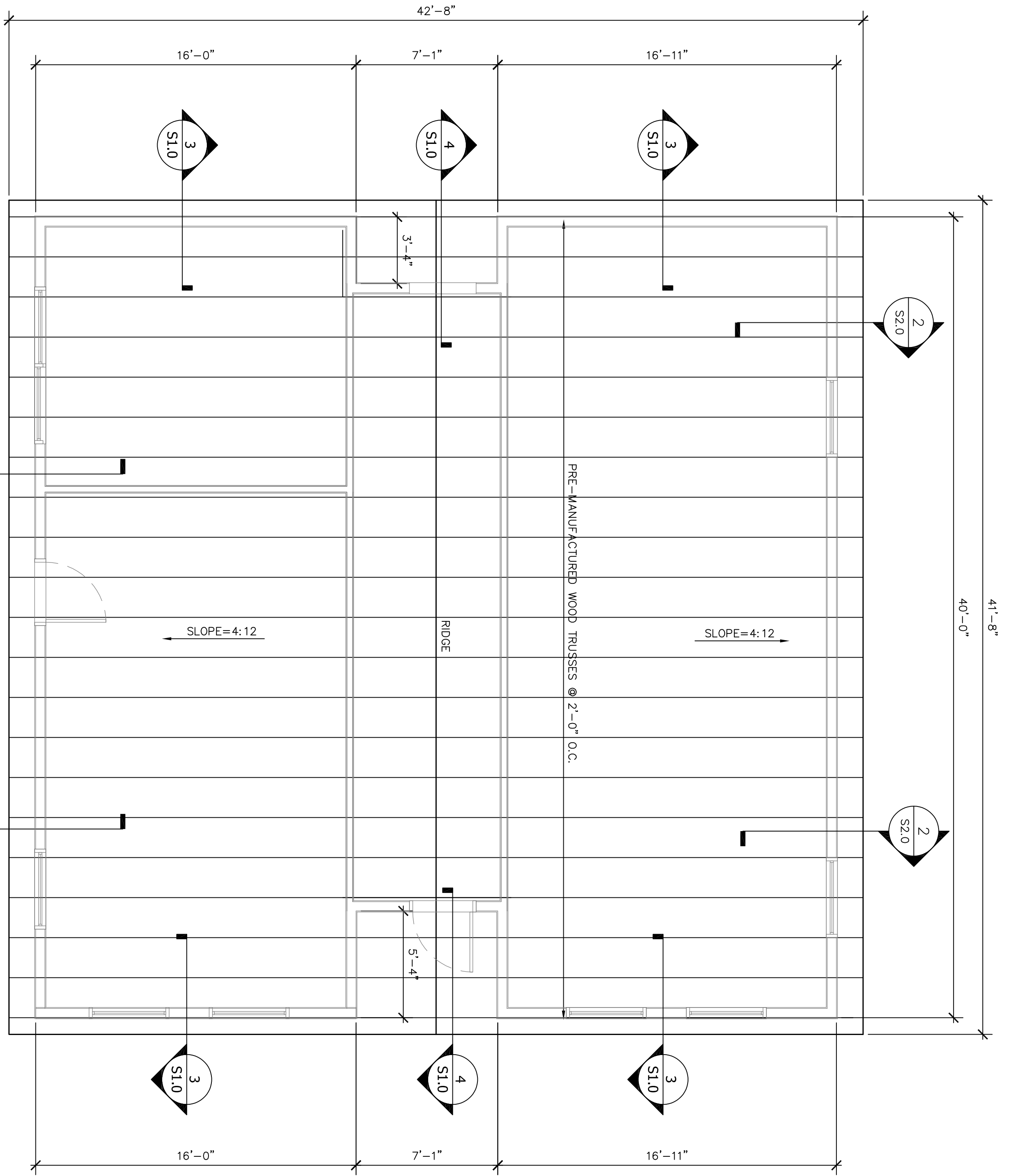
Design Elements
M. L. Saieed (Michael), AIA, LEED-AP
Architect / President
1213 Culbreth Drive, Suite 142
Wilmington, North Carolina 28405
910.509.3131

DAVID TERKELTOUB AND ASSOCIATES, P.C.
CONSULTING ENGINEERS
902 PINE DROVE DRIVE
WILMINGTON, NC 28409
PHONE: (910) 794-3070 FAX: (910) 794-3090
DT PROJECT NO. 21038
FIRM LICENSE NO.: C-2874

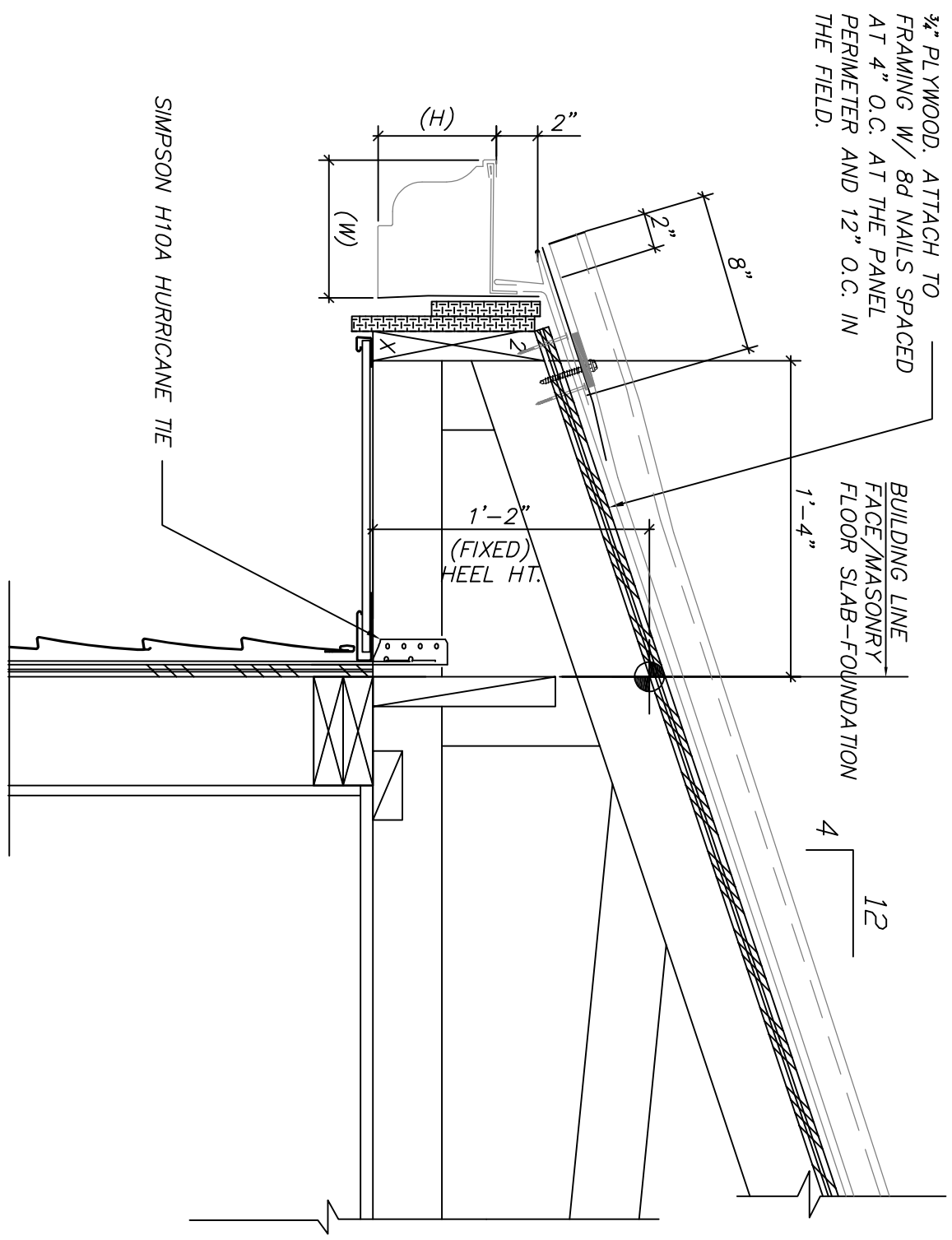
job status **Contract Documents - Issued for Construction**

date 12/01/21
job no. CRE/EL/LL
drawn by DTERKELTOUB
checked by DTERKELTOUB
drawing no. **S1.0**
revision no. 0

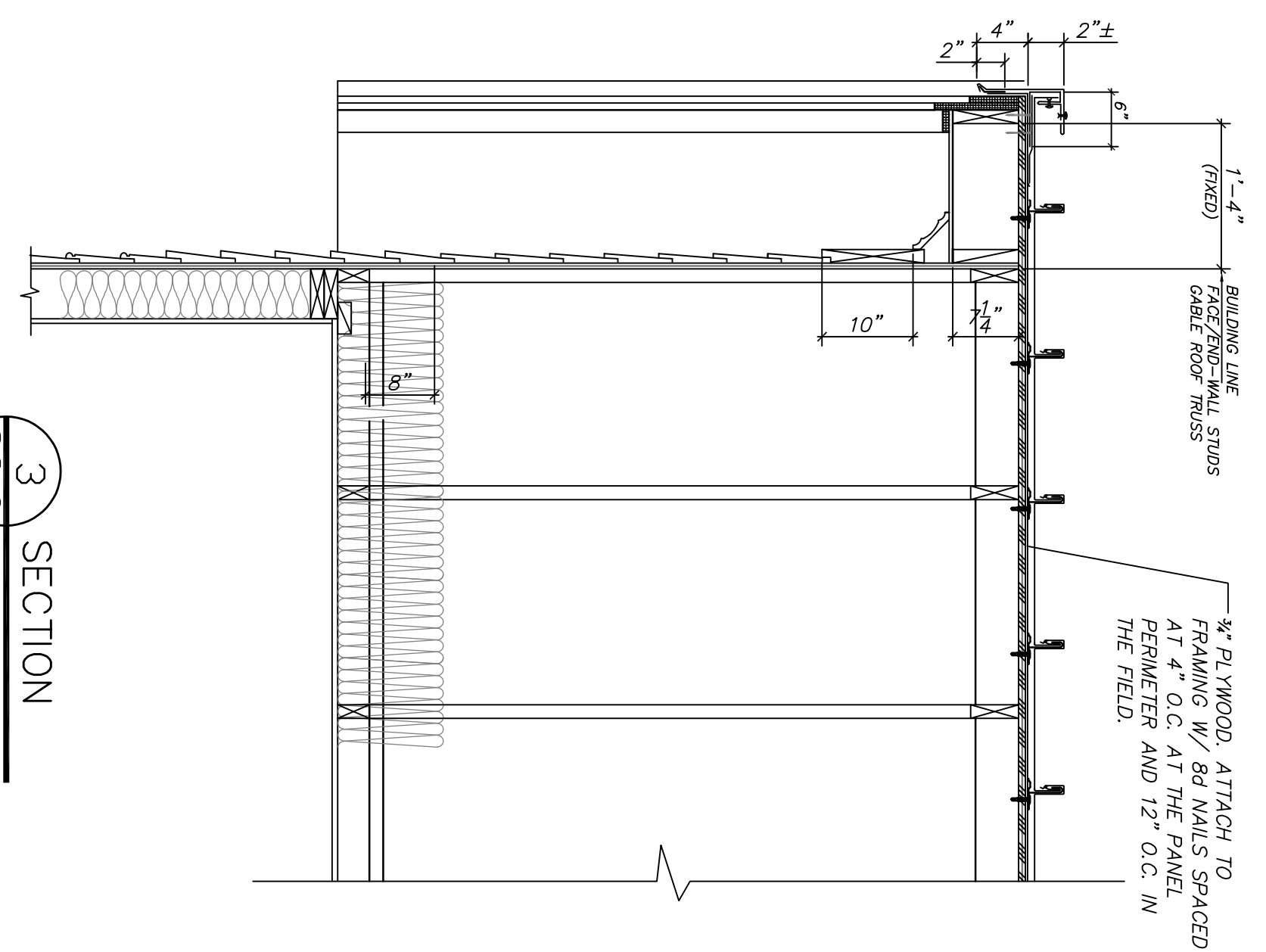
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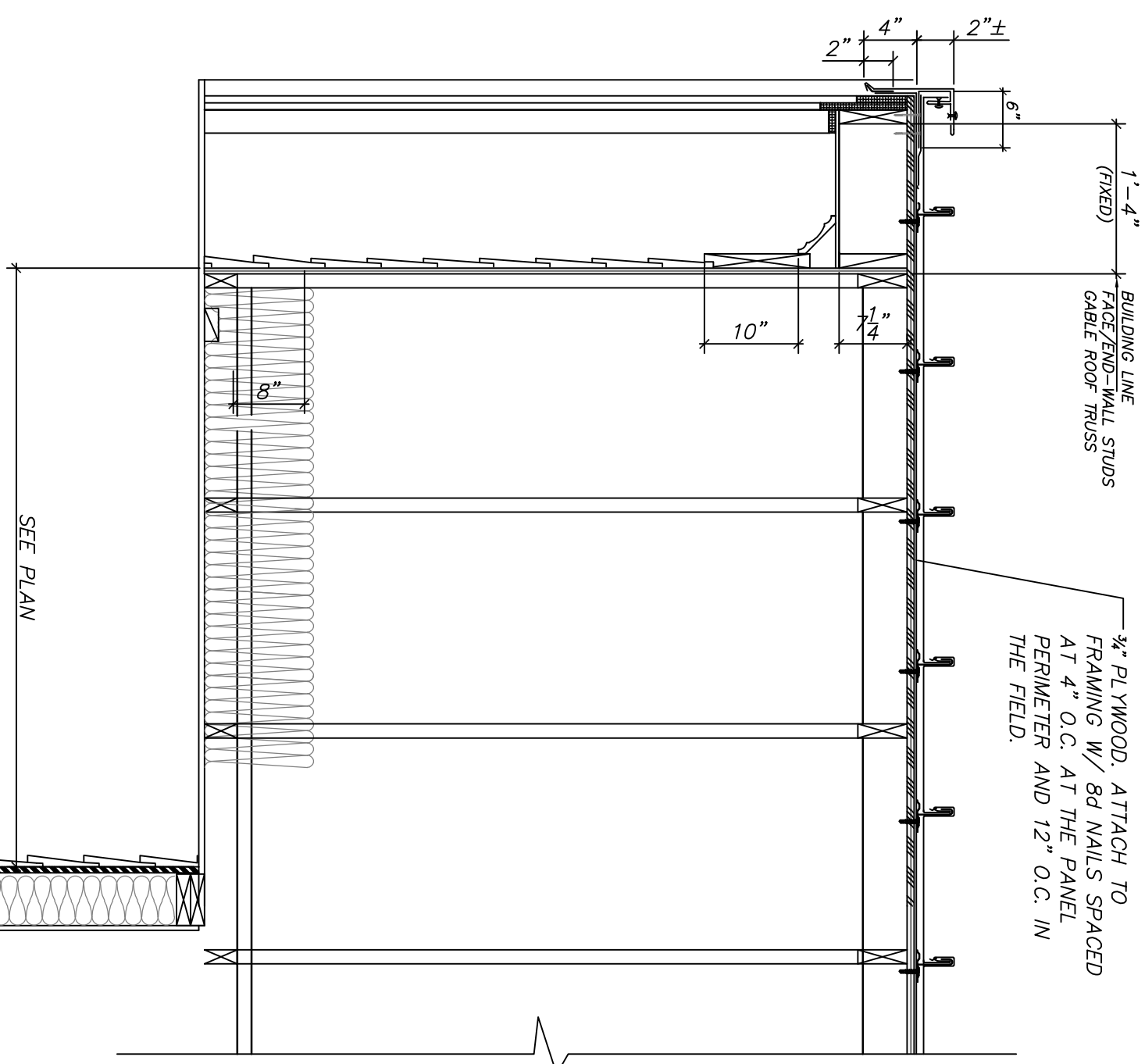
1 ROOF FRAMING PLAN
S2.0 SCALE: 1/4" = 1'-0"



2 SECTION
S2.0 SCALE: 1/2" = 1'-0"



3 SECTION
S2.0 SCALE: 3/8" = 1'-0"



4 SECTION
S2.0 SCALE: 3/8" = 1'-0"

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job no.	CRETE/LLC
date	12/01/21
drawn by	DIERKEL/TOUB
checked by	DIERKEL/TOUB
drawing no.	S2.0
revision no.	0

Design Elements
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PROFESSIONAL ENGINEER
DAVID TERKELTOUB
12-6-2021

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DT PROJECT NO. 21035
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GENERAL CONDITIONS AND NOTES

PLAN DIMENSIONS OF INTERIOR WALLS ARE MEASURED FROM FACE TO FACE OF WALL STUD END FACE EDGE AND FACE OF MASONRY, FACE OF FLOOR SLAB/MASONRY FOUNDATION WALL, UNLESS NOTED OTHERWISE; REFERENCE ARCHITECTURAL SHEET A100 FOR DIMENSIONAL LOCATIONS OF WALLS AND PLUMBING FIXTURES LOCATIONS; GENERAL CONTRACTOR SHALL PROVIDE (AND CHECK REFERENCE WITH PROPRIETARY VENDOR SPECIFICATIONS AND SPECIALTY EQUIPMENT DRAWINGS) ALL LAYOUTS (AND UNDER SLAB (COMMON AND SPECIALTY) SERVICES) REQUIRED BEFORE CONSTRUCTION BEGINS

ALL CONCRETE FLOOR SLABS OVER EXCAVATION TRENCHING FOR BUILDING UNDER SLAB OPERATIONAL SERVICES SHALL BEAR ON UNDISTURBED (WITHOUT ORGANIC) SOIL (OR) SELECT FILL CAPABLE OF SUPPORTING A DESIGN BEARING PRESSURE OR 1500 PSF IF GEO-TECH WHERE BACKFILLING (SUB-GRADE) SOIL IS REQUIRED WITHIN EXCAVATED TRENCHED AREAS THE SUB-GRADE SOIL MATERIAL SHALL BE CLEAN SELECTED AND COMPACTED IN 8-INCH LAYERS TO A (MINIMUM) 95% STANDARD PROCTOR DRY DENSITY (COMPACTION PROCEDURES SHALL FOLLOW ASTM D698 RECOMMENDATIONS); TEST SHALL BE CONDUCTED IN AN AREA OF PROPOSED TRENCHING, ONE TEST PER 25 LINEAR FEET OF FOOTING, FOOTING SUB GRADE WILL NOT BE ACCEPTABLE UNIT TESTS HAVE BEEN PASSED (OR) GENERAL CONTRACTOR ACCEPTS SURETIES AND RESPONSIBILITIES FOR EXISTING SOIL CONDITIONS TO RESIST BUILDING SETTLEMENT ISSUES.

FINAL SUB-GRADE BACKFILL SHALL BE FINISHED FLUSH AND LEVEL TO EXISTING BASE SOIL (UNDER SLAB) SUB-GRADE AS NOT TO CAUSE ANY UN-INFORMED THICKNESS OF CONCRETE FLOOR SLAB CONSTRUCTION. GENERAL CONTRACTOR ACCEPTS SURETIES AND RESPONSIBILITIES FOR EXISTING SOIL CONDITIONS AND SUB-GRADE SOIL BACKFILL TO RESIST FLOOR SLAB SETTLEMENT ISSUES. (ONLY IF PROVIDED AS A SUPPLEMENT; REFERENCE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION TO TAKE PRECEDENCE)

ALL CONCRETE FOOTINGS, INCLUDING FLOOR (IF PROVIDED CUSTOM COLORED) SLAB-ON-GRADE SHALL OBTAIN A COMPRESSIVE STRENGTH OF (MIN) 3,500 psi AT AN AGE OF 28 DAYS AND A MAXIMUM SLUMP OF 5 INCHES, UNLESS NOTED OTHERWISE. (DO NOT AIR ENTRAIN CONCRETE) (ONLY IF PROVIDED AS A SUPPLEMENT; REFERENCE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION TO TAKE PRECEDENCE)

ALL REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615, GRADE 60 ksi; PLACEMENT AND PROTECTION (AND CLEAN FROM SURFACE RUST) OF STEEL REINFORCING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF A.C.I. 318; WHERE CONTINUOUS REINFORCING BARS ARE REQUIRED THERE SHALL BE A MIN. 36 (X) BAR DIAMETER AT END LAPPED SPLICES

MINIMUM CLEAR COVER ON REINFORCING; PER ACI 318 (LATEST EDITION) CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO SOILS: 3" CONCRETE OVER EXPOSED TO SOIL; WELD WIRE FIBER (W.W.F.) MID-POINT (CENTER) PLACEMENT WITHIN CONCRETE FLOOR SLAB

ALL CONCRETE MASONRY UNITS (CMU) SHALL BE IN ACCORDANCE WITH ASTM C-90 TYPE I GRADE N-1 (FM 1350psi); GROUT FOR MASONRY WALL SHALL COMPLY WITH ASTM C-476, AND SHALL BE PROPORTIONED TO OBTAIN A 28 DAY COMPRESSIVE STRENGTH OF 2500psi; ALL MORTAR SHALL BE ASTM C-270, TYPE M OR S.

LEGEND

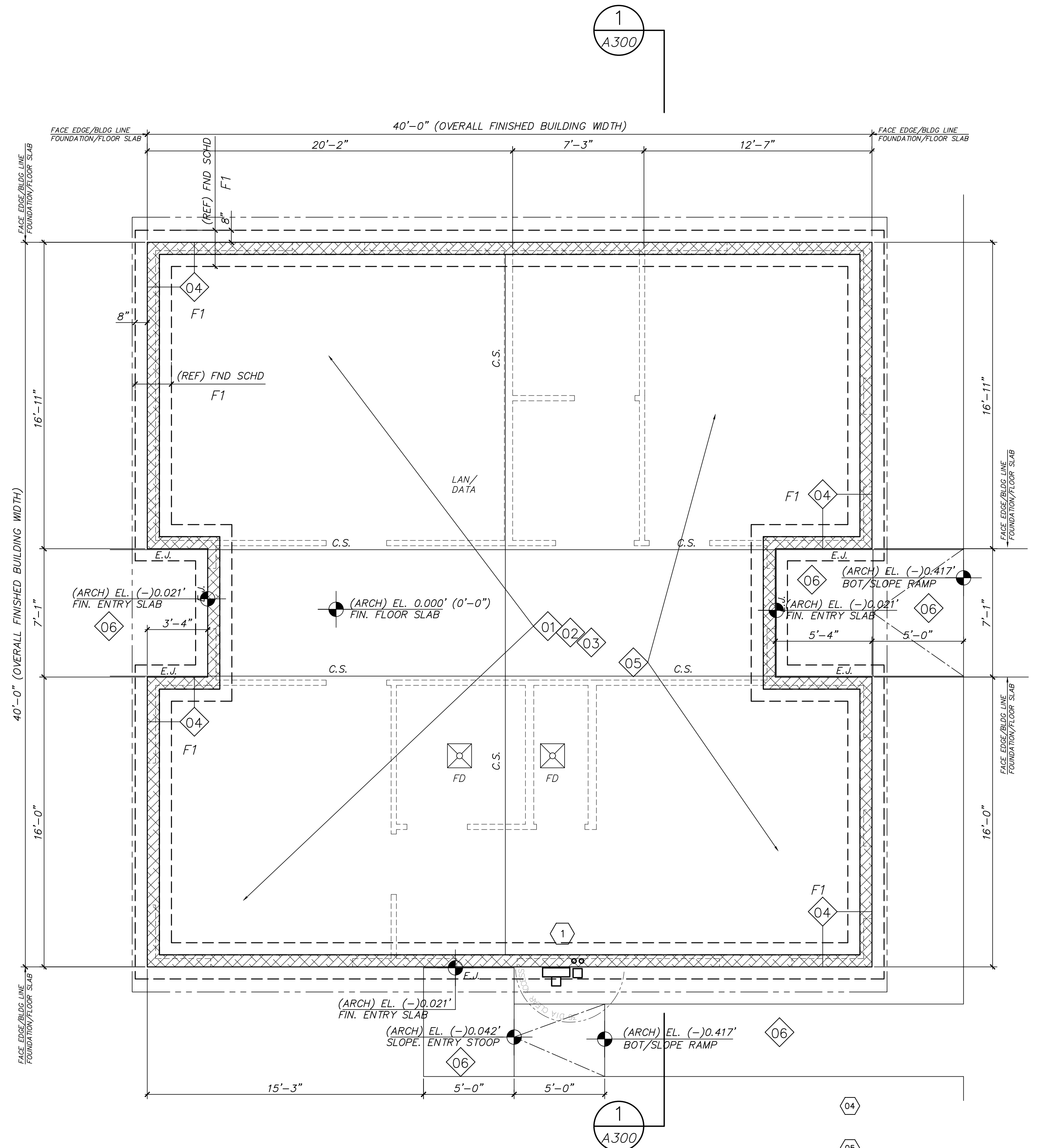
- FLOOR DRAIN, APPROXIMATE LOCATION CAST-IN-SLAB RECESS AND SLOPE FOR DRAINAGE (MIN 18" SQ. FLOOR SLAB TAPERED TO DROPPED INLET WASTE DRAIN) REFERENCE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
- C.S. CONCRETE FLAT SLAB CONTROL JOINT (APPROXIMATE LOCATION) WHERE APPLICABLE PLACE UNDER PARTITION WALLS; PRE-FORMED "T-SHAPE" PLASTIC CRACK CONTROL STRIP (OPTIONAL: SAW CUT JOINT; SAW CUT TOP SURFACE)
- E.J. EXPANSION CONSTRUCTION JOINT, (NOM. 1/2" WIDTH) EXTERIOR TRAFFIC GRADE BITUMINOUS MATERIAL; PERIMETER FOUNDATION TO SLAB EDGE; WEATHER TIGHT JOINT SEAL W/ POUR-ABLE SELF LEVELING SEALANT (SIMILAR MFR: SIKAFLEX)
- UNDERGROUND PVC CONDUIT STUB UP FOR MULTIPLE CIRCUITED ELECTRICAL JUNCTION BOX(S) (ELECTRICAL OUTLET(S) COMBINATION); REFERENCE ELECTRICAL DRAWINGS; VERIFY LOCATION WITH GENERAL ARRANGEMENT FLOOR PLAN, CAP ALL CONDUITS/PIPING DURING CONSTRUCTION. PVC CONDUIT ONLY AT UNDERGROUND LOCATIONS. (SCHEDULE 20 PVC, UTILIZE 45° BENDS ONLY); COORDINATE FINAL LOCATIONS WITH BUILDING OWNER.

NOM. 8" CONCRETE MASONRY UNIT FOUNDATION WALL (REFERENCE ARCHITECTURAL WALL SECTION FOR ADDITIONAL INFORMATION) SEE STRUCTURAL WORKING DRAWINGS FOR CONSTRUCTION DETAILS AND SPECIFICATION NOTES
(TYPICAL; UNLESS NOTED OTHERWISE) CONCRETE MASONRY UNITS SHALL BE IN ACCORDANCE WITH ASTM C-90 TYPE I GRADE N-1 (FM 1350psi); GROUT FOR MASONRY WALL SHALL COMPLY WITH ASTM C-476, AND SHALL BE PROPORTIONED TO OBTAIN A 28 DAY COMPRESSIVE STRENGTH OF 2500psi; ALL MORTAR SHALL BE ASTM C-270, TYPE M OR S.

PLAN KEYNOTES

- REMOVE REQUIRED LAYERS OF EXISTING (ORGANIC SOIL) FINISHED TOPSOIL GRADE TO VIRGIN GRADE SOIL LEVEL; (IF PROVIDED AS NECESSARY, REMOVE TOPSOIL AT DEPTHS DENOTED IN GEO-TECHNICAL SOIL ENGINEERING REPORT). PREPARED BUILDING FOOTPRINT BEARING SOIL SHALL BE CLEANED OF ALL VEGETATION AND ORGANIC MATERIAL (OPTIONAL: REMOVED ORGANIC SOILS TO BE STORED AND REUSED FOR LANDSCAPING)
- BACK-FILL SUB-GRADE FOR ELEVATED FLOOR SLAB AND SPREAD FOOTING BEARING; PROVIDE CLEAN SANDY/CLAY SOIL (IF REQUIRED BY GEO-TEC SOIL ENGINEER'S REPORT; #57 AGGREGATE) IN COMPACTED "LIFT GRADE" 8 INCH LAYERS (MIN. 95% COMPACTION (MECHANICAL ACTION) OF EACH LAYER) IF PROVIDED AS NECESSARY. GENERAL CONTRACTOR TO REVIEW BUILDING OWNER'S PROVIDED "SOIL ENGINEER'S" REPORT OF SUBSURFACE INVESTIGATION FOR PROPER SOIL BEARING CONDITIONS
- "VAPOR BARRIER (VB)" UNDER CONDITIONED SPACES ONLY (MIN. 15mil) UNDER CONCRETE FLOOR SLAB (OVER CLEAN COMPACTED/ELEVATED GRADE LIFT SUB-BASE SOIL) MOISTURE PROTECTION-PUNCTURE RESISTANT PLASTIC SHEETING (METALLOCENE POLYOLEFIN); PROVIDE MIN. 6" SEAL LAPPED JOINTS WITH TAPED SEAMS INSTALLATION; THRU BARRIER/SLAB PIPE PENETRATIONS (ei. PLUMBING AND ELECTRICAL SERVICES) SHALL BE TAPED (OR) MASTIC (MFR. "STEGO INDUSTRIES-15MIL," ASTM E1745 CLASS A; WITH 0.01 PERMANENCE)
- CONTINUOUS 8" CONCRETE MASONRY UNIT FOUNDATION WALL; REINFORCED W/ #5 HOOKED VERT. DOWELS TO FOOTING, TYPICAL 2'-0" O/C. AND MAX. 16" FROM INSIDE/OUTSIDE BUILDING CORNERS; STAGGER PLACEMENT 24" FROM TRANSVERSE BARS; PROVIDE HORZ MASONRY "TRUSS TYPE" REINF. @ 8" VERT. O.C.; CONCRETE GROUT (PEA GRAVEL (MAX. 3/8" DIA) AGGREGATE) FILL ALL CMU CELLS SOLID.
- MIN. 4" THK CONCRETE SLAB ON GRADE; REINFORCED W/ 6x6 W2.1-W2.1 (FLAT SHEETS) W.W.F. ON VAPOR BARRIER OVER CLEAN COMPACTED DRAINAGE SUB-BASE AGGREGATE (CONC Fy 3500 psi; STL. TROWEL SURFACE FINISH)
- EXTERIOR CONCRETE SLAB ON ELEVATED GRADE; NOM. 4" THK REINFORCED W/ 6x6 1.4-1.4 W.W.F. OVER CLEAN COMPACTED GRANULAR SUBFILL (CONC 2800 psi; LIGHT BROOM SURFACE FINISH) SITE-VERIFY AND MODIFY TO MATCH EXISTING GRADE CONDITIONS. HORIZONTAL RUNS SHALL NOT EXCEED VERTICAL GRADIENT FOR: WALKWAY 1:20; SLOPE ACCESSIBLE RAMPS: 1:12; MAX. (FIXED) CROSS SLOPE (FROM CENTER) SIDE DRAINAGE 1/4" PER FOOT
- PROPOSED ELECTRICAL POWER AND LIGHTING PANELS; PROVIDE (2) ADDITIONAL UNDER SLAB 2" DIA. PVC SPARE CONDUITS "STUB-UP" (MIN. 6" AFF) AND CAP UNDER ELEC PANEL (SEE ELECTRICAL DRAWINGS FOR ADDITIONAL DETAILED SERVICES & "MD" PNL LOCATIONS)

PIER AND FOOTING SIZE SCHEDULE					
MARK	PIER SIZE Length(L) x Width(W)	FOOTING SIZE Length(L) x Width(W) x Depth (D)	BOTTOM FOOT'G REINFORCEMENT Each Way (EW) Short Way (SW) Long Way (LW)	TOP FOOT'G REINFORCEMENT Each Way (EW) Short Way (SW) Long Way (LW)	REMARKS
F1	CONTINUOUS SPREAD FOOTING	CONT x 2'-0" x 10"	(3) No. 4's CONT (OR) (2) No. 5's CONT	N/A	PROVIDE No.3 TRANSVERSE BARS (CROSS REINF TIES) AT 36" O/C
F2	CMU FOUNDATION WALL	N/A	(X) No. N/A (SW) (X) No. N/A (LW)	N/A	REFERENCE DETAIL 1/A700
F3	N/A	N/A	(3) No. 4's CONT (OR) (2) No. 5's CONT	N/A	PROVIDE No.3 TRANSVERSE BARS (CROSS REINF TIES) AT 36" O/C

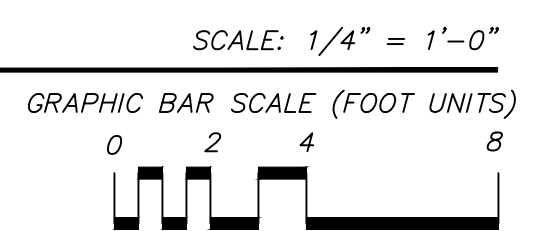


GENERAL FOUNDATION PLAN NOTES

PRE-CONSTRUCTION SITE PREP REMOVE REQUIRED LAYERS OF EXISTING TOPSOIL (ORGANIC SOIL) GRADES OF SOFT CLAY AND OTHER UNSUITABLE MATERIALS UNDER ALL FLOOR SLABS, RIBBON SLABS, FOOTINGS, AND 5'-0" BEYOND BUILDING FOOTPRINT EXTERIOR WALLS. REFERENCE GEO-TECHNICAL SOIL ENGINEERING REPORT OF SUBSURFACE INVESTIGATION FOR PROPER SOIL BEARING CONDITIONS FOR RECOMMENDATIONS TO STRUCTURALLY SITE PREP AND CONDITION TO IMPROVE EXISTING GRADES AT DEPTHS (DENSIFY THE SOIL) TO ACHIEVE PROPER SOIL BEARING CAPACITIES AND (IF REQUIRED) SEISMIC RESISTANCE. PREPARED SOILS SHALL BE CLEANED OF ALL VEGETATION AND ORGANIC MATERIAL. TERMITES TREAT BEFORE CONSTRUCTING BUILDING PAD, PERIMETER SLABS AND FOUNDATIONS; GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO REFERENCE STRUCTURAL DRAWINGS AND BUILDING OWNER PROVIDED PROFESSIONAL SOIL ENGINEER'S SUBSURFACE GEO-TECHNICAL SOIL REPORT (OPTIONAL: REMOVED ORGANIC SOILS TO BE STORED AND REUSED FOR LANDSCAPING)

ALL FOUNDATIONS (FOOTINGS) SHALL BEAR ON UNDISTURBED (WITHOUT ORGANIC) SOIL (OR) SELECT FILL CAPABLE OF SUPPORTING A DESIGN BEARING PRESSURE OR 1500 PSF; WHERE THE BOTTOM OF FOUNDATION ELEVATION DOES NOT EXTEND TO SUITABLE UNDISTURBED SUBSOIL, ALL UNSUITABLE MATERIAL SHALL BE REMOVED AND THE BUILDING FOOTPRINT PAD SHALL BE FILLED WITH CLEAN MATERIAL SELECT AND COMPACTED TO 95% DENSITY (COMPACTION PROCEDURE PER ASTM D698 RECOMMENDATIONS) FILL FOR BUILDING PAD SHALL BE TESTED FOR COMPACTION BY A CERTIFIED GEO-TECHNICAL SOIL ENGINEERING TESTING FIRM. TEST SHALL BE CONDUCTED IN AN AREA OF PROPOSED TRENCHED FOOTING, ONE TEST PER 25 LINEAR FEET OF FOOTING, FOOTING SUB GRADE WILL NOT BE ACCEPTABLE UNIT TESTS HAVE BEEN PASSED (OR) GENERAL CONTRACTOR ACCEPTS SURETIES AND RESPONSIBILITIES FOR EXISTING SOIL CONDITIONS TO RESIST BUILDING SETTLEMENT ISSUES.

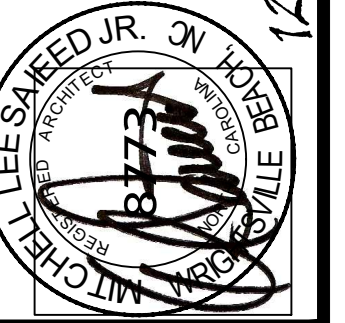
REFERENCE ARCHITECTURAL (TYP) WALL SECTIONS (AND IF PROVIDED AS SUPPLEMENT; STRUCTURAL DRAWINGS TAKES PRECEDENCE OVER ARCHITECTURAL)



no.	0	12/06/21	ISSUE FOR CODE ENFORCEMENT REVIEW & APPROVAL
date			
revision			

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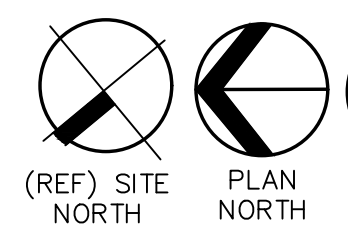
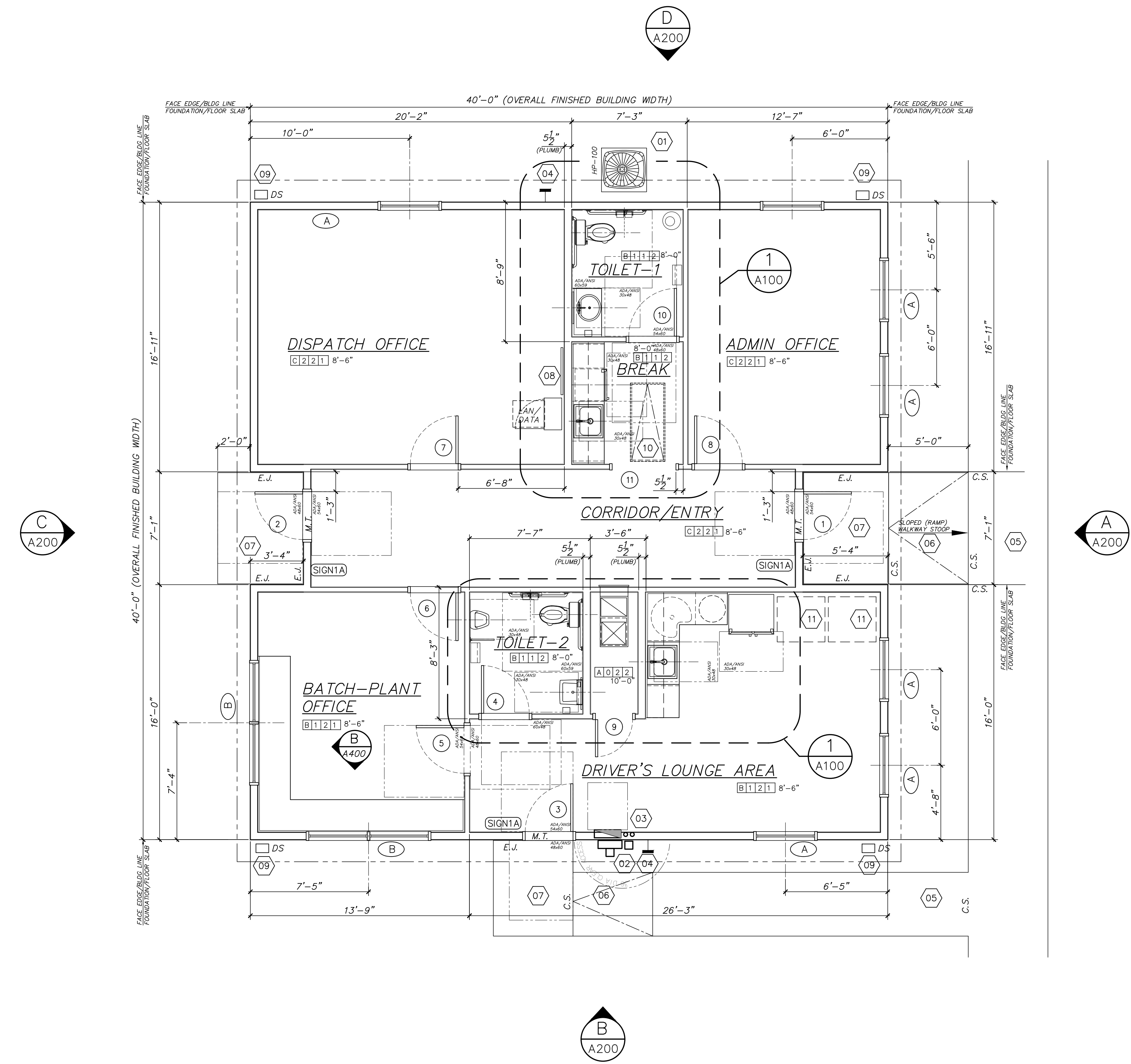
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 Architect / President
 1213 Colereth Drive, Suite 142
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 910.392.9331



**Proposed Dispatch Office Building for
 Crete Solutions, LLC**
 FOUNDATION PLAN
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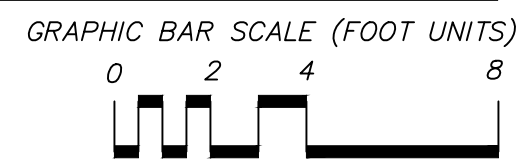
date 12/01/21
 job no. CRETE/JUL
 drawn by MSAIEED
 checked by MSAIEED
 drawing no.
AS100
 revision no. 0

no.	0	12/06/21	ISSUE FOR CODE ENFORCEMENT REVIEW & APPROVAL
date			
revision			



1 PROPOSED FLOOR PLAN

SCALE: 1/4" = 1'-0"



GENERAL KEYNOTES

FOR THIS SHEET ONLY

- 01 HEATING/AIR CONDITIONING (HVAC) EXTERIOR COMPRESSOR UNIT W/ ON-GRADE CONCRETE MAINTENANCE PAD (EPOXY ADHESIVE ANCHORED BOLT UNIT IN-PLACE); (MIN. 4" THK CONC PAD); HVAC UNIT ZONED PER SINGLE FLOOR LEVEL (OCCUPIED SPACES); MECHANICAL UNIT ELECTRICAL DISCONNECT SWITCH EXTERIOR SURFACE WALL MOUNTED ABOVE GRADE (MIN. 36"); MIN. HORIZONTAL DISTANCE 36" AWAY FROM ANY UNIT; (REFERENCE MECHANICAL DRAWINGS FOR DETAILS)
- 02 ELECTRICAL MAIN DISTRIBUTION (CENTER) PANEL AND METER BASE; APPROXIMATE LOCATION (REFERENCE ELECTRICAL DRAWINGS)
- 03 PROPOSED RECESSED INTERIOR WALL MOUNTED ELECTRICAL (POWER AND LIGHTING) PANEL (APPROXIMATE CENTERLINE LOCATION); PROVIDED THRU WALL ABOVE (OR CENTERED) ELECTRICAL PANEL PVC CONDUIT; NOTE PROVIDE: (2) ADDITIONAL UNDER SLAB 2" DIA. PVC SPARE CONDUITS AND (1) 1" PVC SPARE CONDUIT "STUB-UPS" (MIN. 6" A.F.F. AND CAP) UNDER ELECTRICAL PANEL (ELECTRICAL PANEL AMPERAGE AND ITS DESIGNATED SERVICE ASSIGNED SPACES, SHALL BE COORDINATED WITH BUILDING OWNER AND BATCH-PLANT SPECIALIZE ELECTRICAL EQUIPMENT AND VERIFIED WITH ELECTRICAL CONTRACTOR) REFERENCE ELECTRICAL ENGINEER DRAWINGS FOR ADDITIONAL DETAIL INFORMATION)
- 04 EXTERIOR HOSE BIB; THRU WALL WALL SECUREMENT; PROVIDE FREEZE PROTECTION
- 05 (TYPICAL) ACCESSIBLE CONCRETE (FRONT EGRESS/ENTRY) WALKWAY/PARKING CURB STEP DOWN; (MIN. 5'-0" WIDTH U.N.O.) MIN. 4" THICKNESS EXTERIOR CONCRETE "SLAB/CURB ON GRADE" w/ TURN-DOWN PERIMETER THICKEN EDGES; REINFORCED SLAB/CURB W/ 6x6 1.4-1.4 W.W.F. (MESH SHEETS) OVER CLEAN COMPACTED GRANULAR SUBFILL (CONC 3000 psi), PROVIDE TOP/BOTTOM No.4 NOSING BARS AT TURN-DN EDGES;
FINISHED WALKWAY/CURBING: HIGH POINT (HP) ELEVATION (-) 0.25" DROP FROM FINISHED CONCRETE FLOOR SLAB; LOW POINT (LP) MAX. 6" ELEVATED WALKWAY/CURBING ABOVE FINISH PAVEMENT; SLOPE WALKWAY/CURBING CROSS-SECTION FOR DRAINAGE (MAX. 1/4" IN 12"); LT. BROOM SURFACE TEXTURE FINISH PROVIDED W/ ADEQUATE CONTROL JOINT ON-CENTER MIN. NOMINAL SPACING EQUAL TO WIDTH OF WALKWAY/CURBING; OVERALL WALKWAY "RUN" SHALL NOT EXCEED 5% SLOPE; OFFSET EGRESS/ENTRY STOOP TO PROVIDE MIN. 18" WIDE (FLAT SURFACE) "ARCHITECTURAL BARRIER FREE" FORWARD APPROACH TO DOOR STRIKE SIDE
SEE CIVIL/SITE PLANS FOR "ARCHITECTURAL BARRIER FREE" ACCESSIBLE ACCESS POINTS "CURB CUTS," LOCATIONS AND CONSTRUCTION DETAILS
- 06 (TYP) ACCESSIBLE SLOPED CONCRETE SIDEWALK AND APRON; SLOPE TO FINISHED WALKWAY (OR) FOR DRAINAGE (MAX. NOT TO EXCEED 6'-0" RUN LENGTH @ 1" IN 12" SLOPE; FLUSH TO FINISHED GRADE; MAX. 1/2" ELEVATION GRADE DIFFERENCE) SLOPE CROSS-SXN FOR DRAINAGE (MAX. 1/4" IN 12"); SITE VERIFY/ADJUST FOR WIDTH; REINF. W/ 1.4x1.4-6x6 W.W.F.; LIGHT BROOM TEXTURE FINISH;
- 07 (TYP) ACCESSIBLE CONCRETE STOOP ENTRY/EXIT ACCESS POINT; STOOP (NOMINAL FLAT) FLUSH TO FINISHED BUILDING FLOOR SLAB AT ACCESS POINT; SLOPE TO FINISHED WALKWAY (OR) ACCESSIBLE RAMP AT CROSS-SXN FOR DRAINAGE (MAX. 1/4" IN 12"); (REFERENCE KEYNOTE [05] FOR CONSTRUCTION)
- 08 PROPOSED TELEPHONE BACKBOARD (APPROXIMATE LOCATIONS; SEE PLAN) FOR EQUIPMENT SERVICE; MIN. 24"(W)x48"(H)-3/4"; SURFACE WALL MOUNTED (BOTTOM 30" A.F.F.) RATED PLYWOOD (FRW) BACKER (BLUE BOARD (UL-LISTED); PROVIDE DOUBLE GANG ELECTRICAL OUTLET (IF NOT DENOTE ON ELECTRICAL DRAWINGS)
- 09 NOM. 12"(W) x 30"(L) PRE-CAST CONCRETE SPLASH (GUARD) BLOCKS; PLACED DIRECTLY UNDER DOWNSPOUT DISCHARGE; LOCATIONS AS DENOTED; (OPTIONAL: DOWNSPOUTS SHALL CONNECT DIRECTLY TO UNDERGROUND STORM DRAINAGE)
- 10 ATTIC ACCESS "CEILING RECESS FOLDING PULL-DOWN" LADDER, ALUM EXTRUDED COMMERCIAL GRADE FRAMING; (MIN. 300lb CAP.) VERIFY R.O. DIMENSION W/ PROPRIETARY ACCESS STAIR MFR. AND COORDINATE W/ TRUSS VENDOR/SUPPLIER) PROVIDE MIN. 36"x36" CLEAR FLOOR AREA AT PULL-DOWN (RECESS FOLDING NOM. SIZE 22"x54" SITE VERIFY ACCESSIBILITY BEFORE ROUGH OPENING CONSTRUCTION.
- 11 (FUTURE) PROPOSED LOCATION FOR COIN/CURRENCY OPERATED VENDING MACHINE (COLD SOFT DRINKS/BOTTLE WATER AND SNACK/CANDY) PROVIDED BY BUILDING OWNER. GENERAL CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICES TO FUTURE INSTALLATION.

FLOOR PLAN LEGEND

FOR THIS SHEET ONLY

- # INDICATES DOOR IDENTIFICATION NUMBER; SEE ARCH SHT A6XX FOR INFORMATION ON NOM. DOOR/FRAME SIZES, DESIGNATION TYPES & HARDWARE
- X INDICATES WINDOW IDENTIFICATION LETTER; REFERENCE SEE SHEET A6XX FOR DETAILED INFORMATION FOR WINDOW FRAME DIMENSIONS AND NOTES
- E.J. EXPANSION CONSTRUCTION JOINT, (NOM. 1/2" WIDTH) EXTERIOR TRAFFIC GRADE BITUMINOUS MATERIAL; PERIMETER FOUNDATION TO SLAB EDGE; WEATHER TIGHT JOINT SEAL W/ POUR-ABLE SELF LEVELING SEALANT (SIMILAR MFR: SIKAFLEX)
- T DESIGNATES FREEZE-PROOF ENCLOSED COMMERCIAL WALL "HOSE BIB" WITH VACUUM BREAKER & "TEE" KEY
- DS PRE-FINISHED NOM. 4x2 DOWN SPOUT (DS) (MIN. 26ga) FROM CONTINUOUS GEE GUTTER, (MIN. 26ga); PROVIDE (DS) CONNECTION WALL STRAPS AT EACH 1/3 POINT VERTICAL WALL HEIGHT; PROVIDE EACH W/ PRE-CAST CONCRETE SLASH BLOCK; SURFACE SHEET STORM-WATER DRAINAGE MANAGEMENT SYSTEM, REFERENCE CIVIL SITE DWG'S
- C.S. CONCRETE SLAB CONTROL JOINT; TOOLED JOINT
- MTS APPROPRIATE ALUMINUM SOLID EXTRUDED TRANSITION STRIPS, JOINT SYSTEM AT FINISHED FLOORING CHANGES FROM ONE MATERIAL TO ANOTHER
- M.T. DESIGNATES EXTRUDED ALUMINUM FLOOR FINISH FLUSH TRANSITION THRESHOLD; ADAAG/HC "BARRIER FREE" ACCESSIBLE CROSS-OVER (MAX. 1/2" THK'N.)
- SIGN- WALL MOUNTED IDENTIFICATION SIGNAGE (SEE SIGNAGE DETAIL A/N100)

ROOM FINISH LEGEND

FOR BUILDING OWNER REVIEWS AND FINAL APPROVALS, GENERAL CONTRACTOR SHALL PROVIDE SELECTED FINISHING (FLOOR, WALL & CEILING AND RESTROOM ACCESSORIES) MATERIALS AND COLOR SAMPLES FOR ALL INTERIOR SURFACE FINISHES. ADDITIONAL SUBMITTALS FOR BUILDING OWNER APPROVALS SHALL INCLUDE ELECTRICAL LIGHTING AND PLUMBING FIXTURES AND MECHANICAL APPLIANCES FROM PROPRIETARY VENDORS.

NAME	ROOM IDENTIFICATION NAME
A1111	CEILING HEIGHT ABOVE FIN FLOOR
CEILING	
1	2x2 SUSPENDED CEIL'G ACoustical LAY-IN SYSTEM, COLOR: WHITE TILE/CEILING GRID; (USG: "MARS" (HIGH-NRC/HIGH-CAC); REGULAR TILES 7/8" (D) (S/L) EDGES; ACoustical SUSPENSION SYSTEM: DOWN DX/DX, 15/16" GRID)
2	PAINTED GYPSUM SOFFIT/CEILING BOARD (GA214-LEVEL 5 SURFACE TEXTURE FINISH) (OPTIONAL: USG: "TUFF-HIDE") SMOOTH SURFACE FINISHED
WALLS	
1	PAINTED GYPSUM BOARD PARTITION; (GA214-LEVEL 4 SURFACE FINISH) (WASHABLE, AND MILDEW/MOISTURE RESISTANCE PAINT REQUIRED); (PRE-PRIMED PAINTED) SEMI-GLOSS ACRYLIC LATEX; COLOR: T.B.D.
2	PAINTED GYPSUM BOARD PARTITION; (GA214-LEVEL 4 SURFACE FINISH); (PRE-PRIMED PAINTED) EGG-SHELL SHEEN FINISH, ACRYLIC LATEX PAINT; COLOR: T.B.D.
BASE	
0	NONE
1	RUBBER/VINYL BASE (NOM 4" HEIGHT); COLOR: T.B.D.
2	5.5" WOOD BASE W/ BEVEL COVE (PAINT GRADE) (OWNER SPECIFIED)
FLOOR	
A	SEALED CONCRETE FINISH; MULTI-APPLIED "PENETRATING" CONCRETE MOISTURE BARRIER SEALER (PROPRIETARY MFR.: "AQUAFIN INC.")
B	12"x12" VINYL COMPOSITE TILE (OWNER SPECIFIED)
C	24"x24" (OR) 12"x36" COMPOSITE CARPET TILE; DIRECT GLUED-DOWN (FLEECE BACKER (OR) NEOPRENE FOAM BACKER)

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Proposed Dispatch Office Building for
Crete Solutions, LLC

Contract Documents - Issued for Construction

2544 US 401 N
Lillington, North Carolina 27546

FLOOR PLAN
job status

date 12/01/21

job no. CRETE/LIL

drawn by MSAIEED

checked by MSAIEED

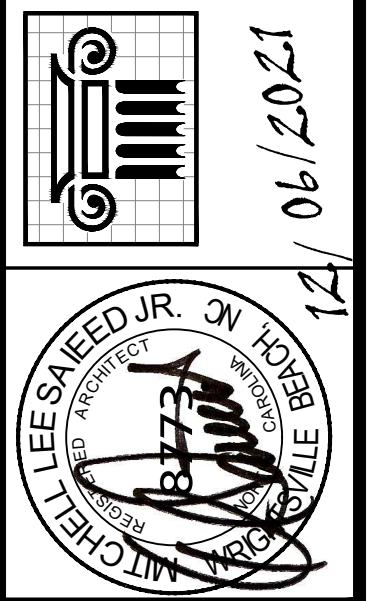
drawing no.

revision no. 0

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Design Elements

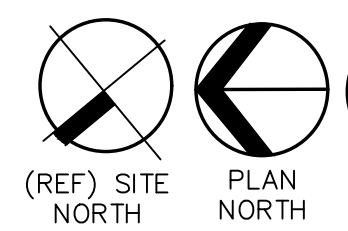
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revision no. 0

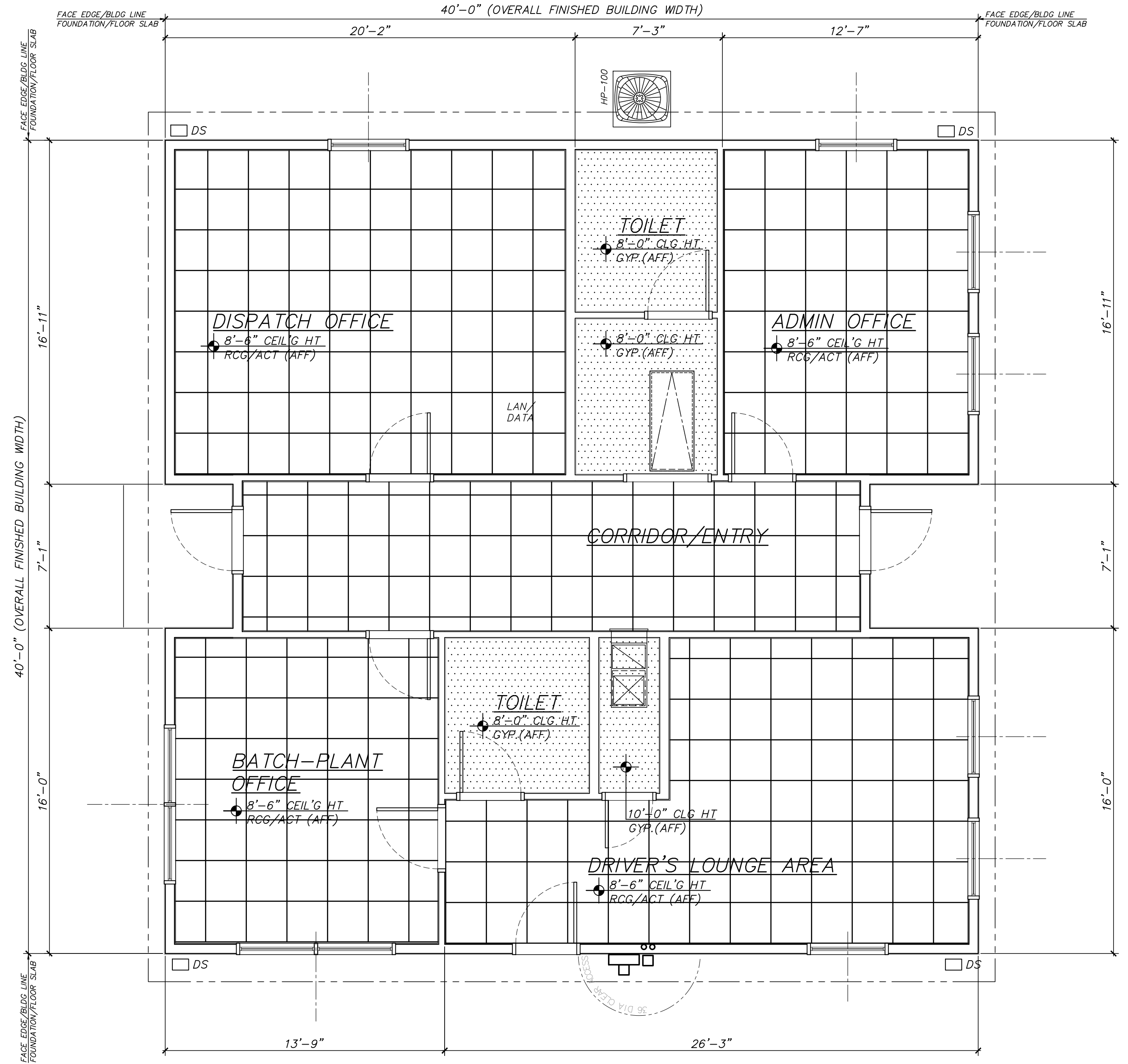
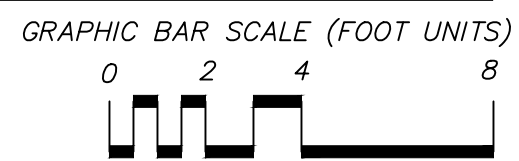
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date			
revision			



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A101

PROPOSED REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0"



REFLECTED SUSPENDED CEILING NOTES

REFERENCE ELECTRICAL AND MECHANICAL DRAWINGS FOR 2x2 FINISHED CEILING GRID LAYOUTS WITH SPECIFIED LIGHTING FIXTURE TYPES AND ACTUAL MECHANICAL (SUPPLY AND RETURN) DIFFUSERS CONFIGURATIONS.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO SITE VERIFY ALL OVERHEAD EXISTING CONDITIONS (STRUCTURAL WOOD FRAMING, AND MECHANICAL DUCTWORK SYSTEM, BUT NOT LIMITED TO), FOR ALL THEIR LOCATIONS OF VERTICAL HEIGHTS ABOVE FINISHED FLOOR, AND CONFIRMING THAT THE PROPOSED FINISHED CEILING ASSEMBLIES ARE BUILD-ABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS REGARDING THESE OR OTHER COORDINATION ISSUES, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE LEASE TENANT OWNER (OR) DESIGNER BEFORE PROCEEDING WITH CONSTRUCTION IN QUESTION.

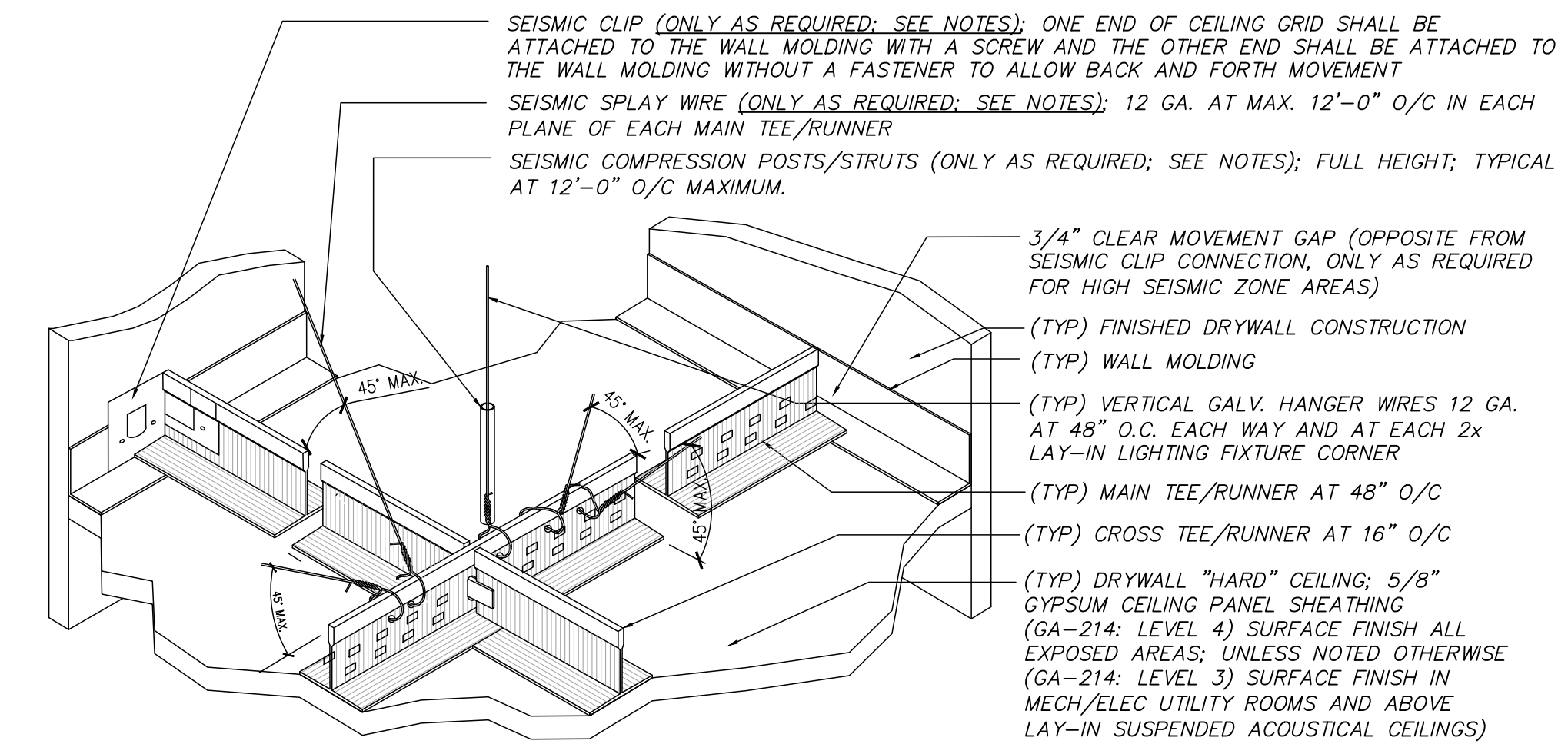
POSITION 2x2 LAY-IN GRID ASSEMBLY TO PROVIDE THE OPTIMUM USAGE OF FULL TILES WITH MINIMUM REQUIRED FIELD CUTTING TO FIT. "ABSOLUTELY NO CEILING TILE SLIVERS ALLOWED" WHERE PERIMETER 2x2 GRID LAYOUT MEETS HEAD WALLS, THE MIN. ALLOWED FINISHED TILE WIDTH SHALL NOT BE LESS THAN 6". CONTRACTOR SHALL MODIFY ONLY ADJACENT PERIMETER 2x2 GRIDS INTO 2x4 GRIDS TO ELIMINATE TILE SLIVERS. (CONTRACTOR SHALL ORDER AN EXTRA BOX (10 PERCENT) MATCHING CEILING TILES AS NECESSARY FOR DAMAGE REPLACEMENTS)

(BUILDING OWNER) SHALL SPECIFY SELECTED LIGHTING FIXTURE ARCHITECTURAL STYLE/TYPES (ELECTRICAL DRAWING DENOTING ONLY RECOMMENDED FIXTURE STYLE/TYPE); GENERAL CONTRACTOR SHALL PROVIDE (UNLESS NOTED OTHERWISE); REFERENCE ELECTRICAL DRAWINGS FOR ALLOWABLE WATTAGE PER FIXTURE AS DENOTED AND REQUIRED TO MEET NBC/IECC-2012

GENERAL CONTRACTOR SHALL REFERENCE PROPRIETARY VENDOR'S SUSPENDED CEILING FRAMING ASSEMBLY SYSTEM FOR APPROPRIATE STANDARD SUSPENSION REQUIRED OF HANGERS AND "SEISMIC" DIAGONAL SPLAY WIRES (GAUGE & O/C SPACING) AT FRAMING GRID INTERSECTIONS AND LIGHTING FIXTURE CORNERS (AND IF APPLICABLE) ADDITION ALTERNATING SPLAYS AT SUSPENDED FRAMING SYSTEM (CROSS MEMBERS AND RUNNERS) WHERE LOCATED ABOVE PARTITION WALLS CONTACTING CEILING GRID.

CEILING LEGEND

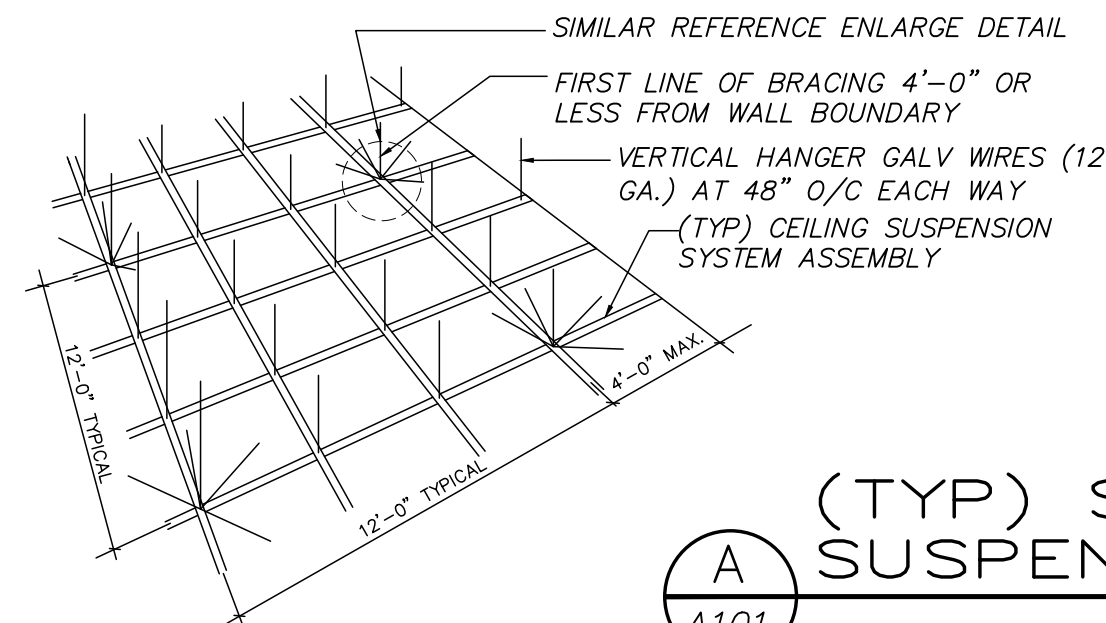
- NOM. 2x4 LAY-IN SUSPENDED (OR) SURFACE MOUNTED CEILING "LED" LIGHTING FIXTURE; FLAT PANEL GASKET DIFFUSING LENS (REFERENCE: ELECTRICAL DWGS FOR ADD'N DETAILED INFORMATION)
- RECESS DOWNLIGHT "LAY-IN" SUSPENDED CEILING GRID FIXTURE; (REFERENCE: ELECTRICAL DWGS FOR ADD'N DETAILED INFORMATION)
- PENDANT LIGHTING FIXTURE (BUILDING OWNER) SHALL SPECIFY AND COORDINATE FINAL LOCATIONS WITH GENERAL CONTRACTOR (REFERENCE: ELECTRICAL DWGS FOR ADD'N DETAILED INFORMATION)
- PENDANT LIGHTING FIXTURE (BUILDING OWNER) SHALL SPECIFY AND COORDINATE FINAL LOCATIONS WITH GENERAL CONTRACTOR (REFERENCE: ELECTRICAL DWGS FOR ADD'N DETAILED INFORMATION)
- WALL MOUNTED LIGHT FIXTURE: COORDINATE LOCATION CENTERED ABOVE MIRROR
- REFLECTED CEILING GRID SYSTEM (RCG), (AND) SOFFIT/BULKHEAD FINISHED HEIGHT ABOVE FINISHED FLOOR (A.F.F.)
- 2X2 SUPPLY AIR DIFFUSER (REFERENCE MECHANICAL DRAWINGS FOR SIZE AND LOCATIONS)
- 2X2 RETURN AIR DIFFUSER (REFERENCE MECHANICAL DRAWINGS FOR SIZE AND LOCATIONS)
- (TYP) 2x2 ACOUSTICAL SUSPENDED REFLECTED CEILING GRID SYSTEM ASSEMBLY PLAN (RCP); FINISHED HEIGHT A.F.F. SEE PLAN (UNLESS NOTED OTHERWISE)
- (TYP) CENTER RECESSED LIGHT (OR) PENDANT JUNCTION BOX) FIXTURE WITHIN CEILING TILE (OR) WIRE GRILLE/WOOD SLATS SUSPENDED CEILING
- (TYP) LAY-IN LIGHT FIXTURE WITHIN CEILING GRID FRAMING; OVERHEAD WIRE SUSPENSION ALL FOUR CORNERS
- CEILING FINISH
 1 = 2x2 SUSPENDED CEILING ACOUSTICAL LAY-IN SYSTEM; COLOR: WHITE TILE/CEILING GRID; (USE: "MARS" (HIGH-NRC/HIGH-CAC); REGULAR TILES 7/8"(0) (SLI) EDGES; ACOUSTICAL SUSPENSION SYSTEM: DOWN 1X/16" (15/16" GRID))
 2 = PAINTED GYPSUM SOFFIT/CEILING BOARD (GA214-LEVEL 3 SURFACE TEXTURE FINISH) (OPTIONAL: USE: "TUFF-HIDE") SMOOTH SURFACE FINISHED
- HATCH PATTERN AREAS DESIGNATES SUSPENDED GYPSUM BOARD PANEL (HARD) TEXTURE FINISH CEILING OR BUILT-DOWN SOFFIT/BULKHEAD; FINISHED HEIGHT A.F.F. SEE PLAN (UNLESS NOTED OTHERWISE) ASSEMBLY SYSTEM REFERENCE AS FOLLOWS: (SEE SCHEMATIC DETAILS FOR SIMILAR CONSTRUCTION GUIDANCE)
 1. 1/2" GYPSUM CEILING PANEL SHEATHING (GA-214; LEVEL 4) SURFACE FINISH ALL EXPOSED AREAS
 2. SUSPENDED METAL CEILING GRID SYSTEM; HEAVY DUTY TEE/RUNNER (24" O/C EACH-WAY) SUPPORTED W/VERTICAL HANGER GALV WIRES (12 GA.) AT 48" O/C EACH WAY



GENERAL SUSPENDED CEILING NOTE:

1. SEISMIC SPLAY WIRE BRACING AND COMPRESSION POSTS/STRUTS ARE ONLY REQUIRED IN HIGH SEISMIC ZONE AREAS DESIGNED FOR: CATEGORIES D, E, F.
2. AREAS SMALLER THAN 1000 SQ. FT. AND WITH WALLS ON FOUR SIDES EXTENDING TO THE STRUCTURE NEED NOT HAVE SEISMIC SPLAY WIRE REINFORCING. BOUNDARY WALLS MUST BE BRACED TOP AND BOTTOM INDEPENDENT OF CEILING TO QUALIFY.
3. SEISMIC CLIPS ARE REQUIRED IN SEISMIC DESIGN CATEGORIES D, E AND F.
4. NOMINAL 2" HORIZONTAL LEG ON WALL MOLDING IS REQUIRED ONLY IN SEISMIC DESIGN CATEGORIES D, E AND F. WITH CC-ES EVALUATION REPORT, A 7/8" LEG WOULD BE ACCEPTABLE WITH PROPER SEISMIC CLIPS.

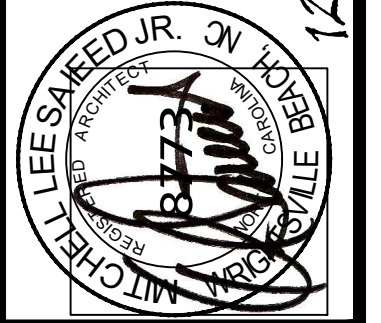
TYPICAL FINISHED ACOUSTICAL METAL LAY-IN SUSPENSION SYSTEM ASSEMBLIES SHALL BE SIMILAR AS METAL SUSPENSION SYSTEM WITH GYPSUM PANEL SHEATHING (HARD CEILINGS)



(TYP) SCHEMATIC SUSPENDED CEILING GRID SYSTEM NOT TO SCALE

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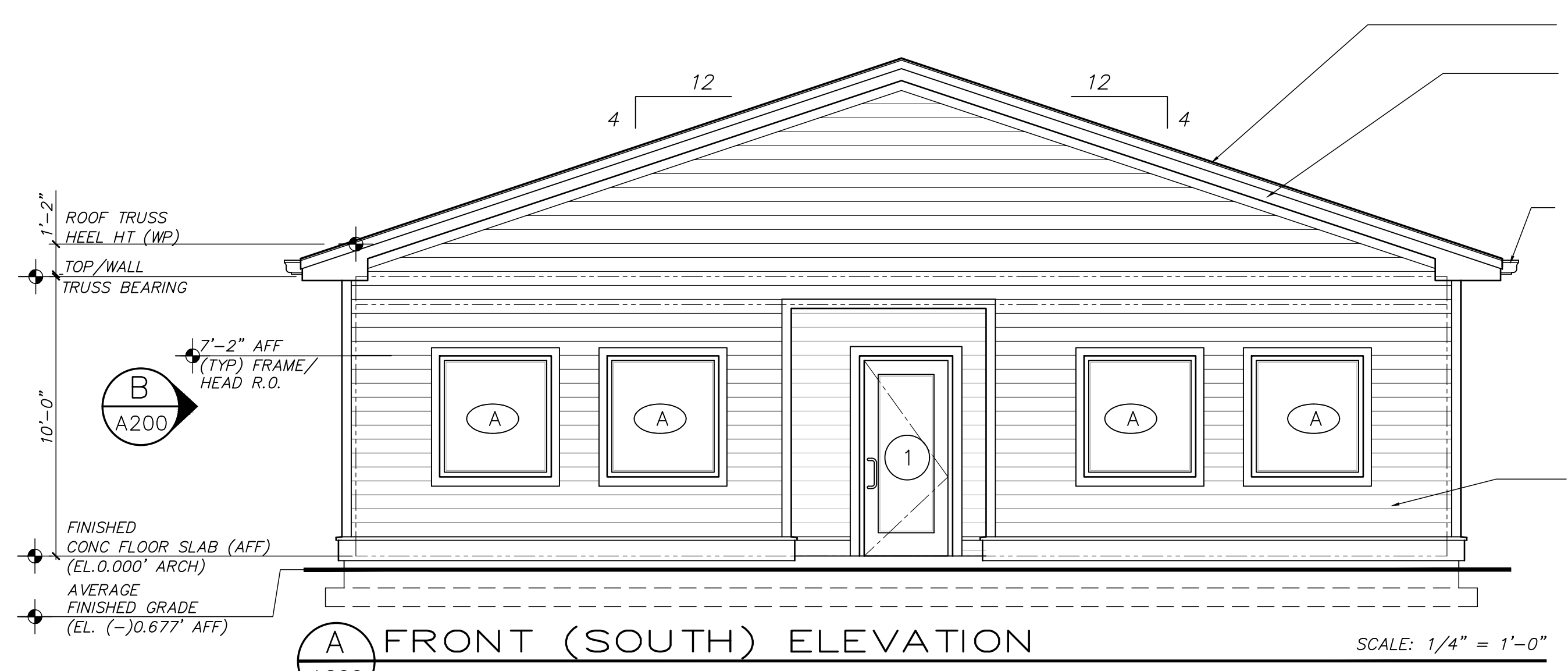
Design Elements
 M. L. Saled (Michael), AIA, LEED-AP
 Architect / President
 1213 Colereth Drive, Suite 142
 Wilmington, North Carolina 28405
 910.392.1931



Proposed Dispatch Office Building for
Crete Solutions, LLC
 2544 US 401 N
 Lillington, North Carolina 27546

REFLECTED CEILING PLAN
 Contract Documents - Issued for Construction

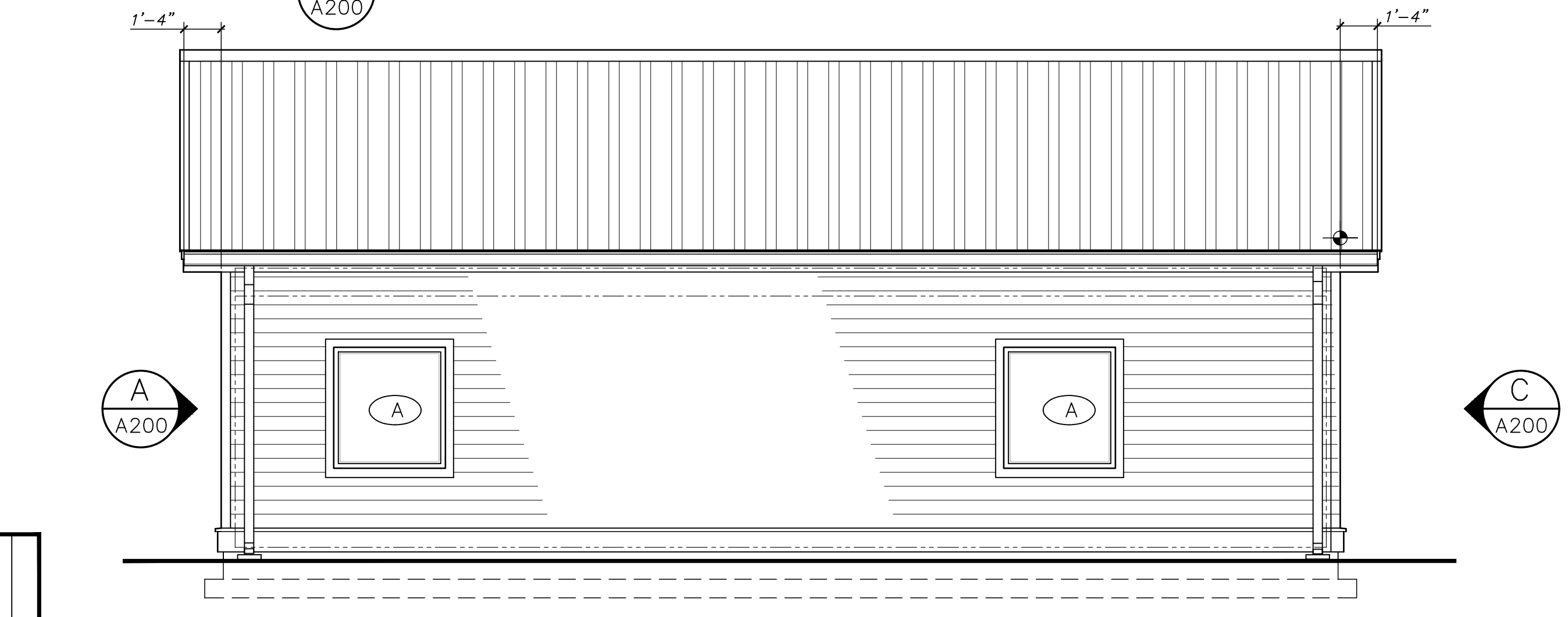
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job no.	CRETE/LIL
drawn by	MSAIEED
checked by	MSAIEED
drawing no.	A101
revision no.	0



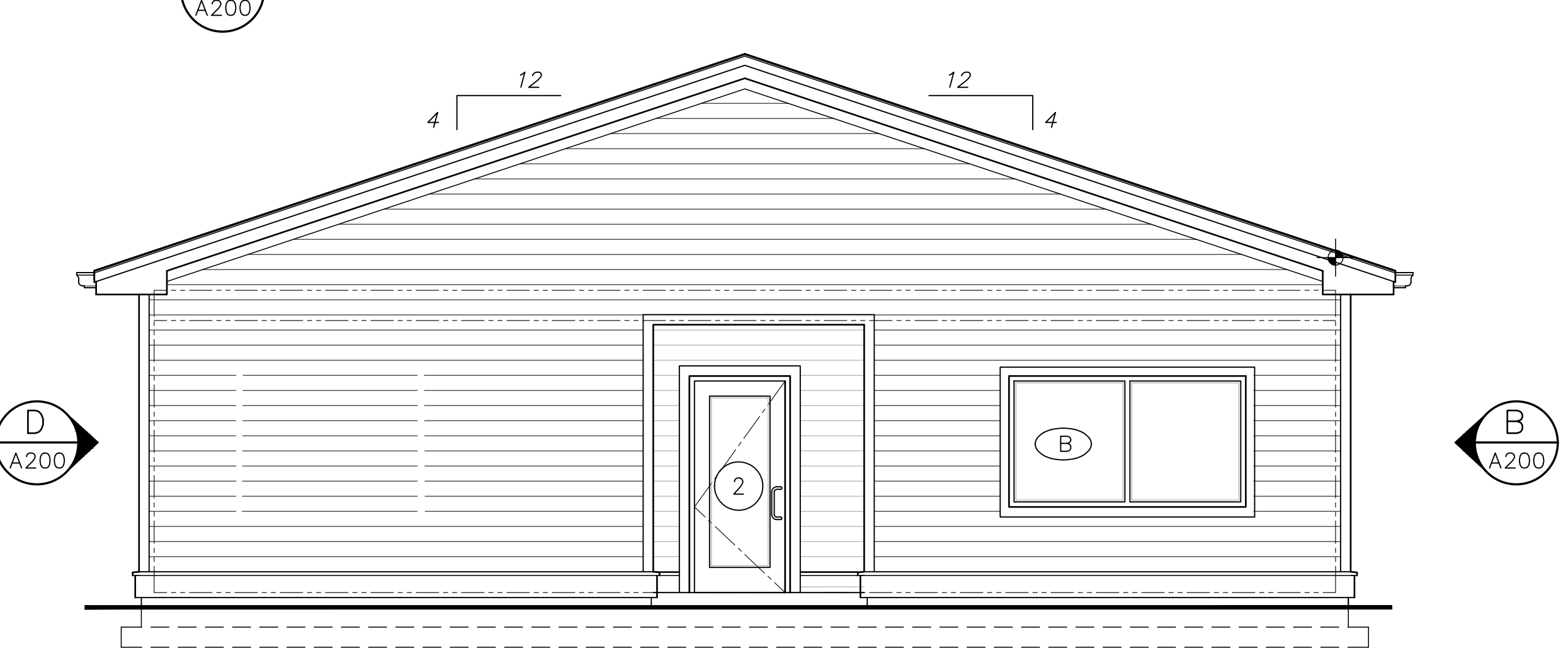
A FRONT (SOUTH) ELEVATION SCALE: 1/4" = 1'-0"



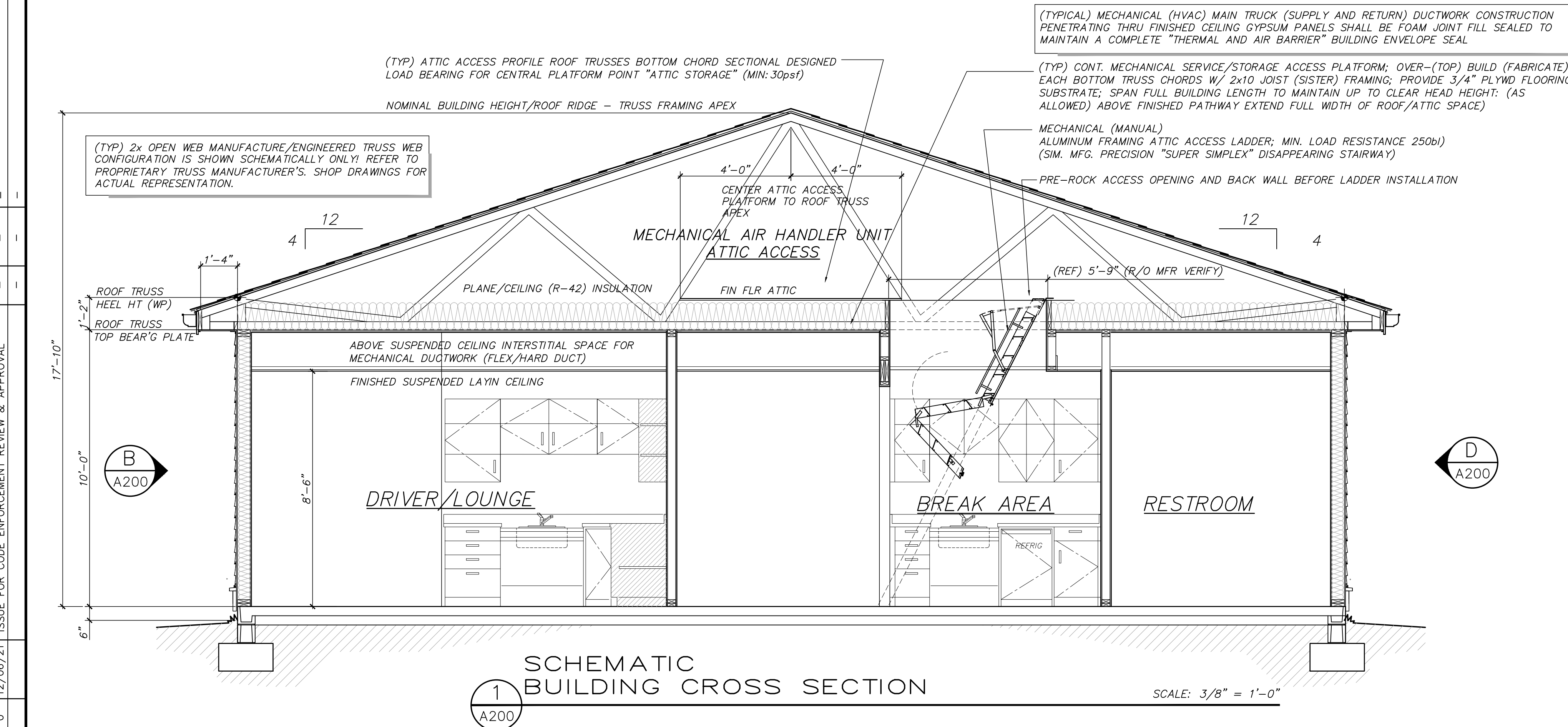
B SIDE (WEST) ELEVATION SCALE: 1/4" = 1'-0"



D SIDE (EAST) ELEVATION SCALE: 1/4" = 1'-0"



C REAR (NORTH) ELEVATION SCALE: 1/4" = 1'-0"

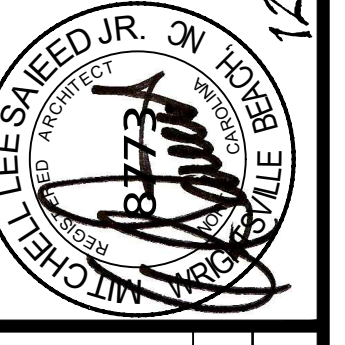


1 SCHEMATIC BUILDING CROSS SECTION SCALE: 3/8" = 1'-0"

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Proposed Dispatch Office Building for Crete Solutions, LLC
 EXTERIOR BUILDING ELEVATIONS
 job status Contract Documents - Issued for Construction

date	12/01/21
job no.	CRETE/LIL
drawn by	MSAIEED
checked by	MSAIEED
drawing no.	A200
revision no.	0

no.	0	date	12/06/21	revision	ISSUE FOR CODE ENFORCEMENT REVIEW & APPROVAL
no.		date		revision	

MANUFACTURED / ENGINEERED 2x OPEN WEB ROOF TRUSS (MAX. SPACING 24" O/C); WEB CONFIGURATION IS SHOWN SCHEMATICALLY ONLY! REFER TO TRUSS MFG. SHOP DRAWINGS FOR ACTUAL REPRESENTATION.

01 ROOF SECONDARY MOISTURE BARRIER; MIN. 8" OVER LAP HORZ SEAMS BEFORE INSTALLATION PROVIDE RUBBIZE/ASPHALT SELF-ADHERED MEMBRANE (40mils) STRIP FLASHING (MIN. 12"W.) OVER ALL HIP/VALLEY INTERSECTING JOINT TRANSITIONS (CHANGE OF ROOF SLOPE/PLANE) AND VERTICAL HEADWALL TERMINATION (SIM. MRF. GRACE'S ICE & WATER SHIELD)

5-VEE (CORRUGATED VEE PROFILE) METAL ROOFING PANELS; GALVANUM PRE-PAINTED ACRYLIC COATED FINISH (COLOR: (T.B.D.))

CONT. PRE-FORMED "LOW-EAVE/RAKE" STAINLESS STL SHINGLE SUPPORT FLASHING (SS316-33Mils); SECURED W/ APPROPRIATE STAINLESS STL FASTENERS 8" O/C PER ROW; (2) ROWS STAGGER 4"

ALUM. PRE-FORMED/FINISHED "OGEE" METAL GUTTER W/ CROSS-BAR BRACKET UNDER EAVE FLASHING; SECURE W/ STAINLESS STL SCREWS

CONT. 1x6 CELLULAR/PVC DRIP BOARD OVER 1x10 CELLULAR/PVC FASCIA TRIM BOARD (0.75" THK) WOOD-GRAIN TEXTURE; SECURED TO CONT. P.T. 2x8 SUB FASCIA (MITER/SCARF-CUT ALL SECTIONAL JOINTS)

CONT. P.T. 2x SUB-FASCIA (CCA 0.80pcf) CHAMFER TOP EDGE TO SHEATHING (FIELD SIZE AND CUT TO FIT AS REQ'D)

CONT. VENTED VINYL SOFFIT; FRAME FINISH W/ VINYL J-TRIM (TYP) NOM. 2x6 DOUBLE TOP BEARING PLATES

06 NOM. 1/2" EXTERIOR PLYWOOD PANEL WALL SHEATHING (APA STRUCTURAL GRADE) STAGGER PLYWOOD VERT/HORZ JNTS. OVER WALL STUDS W/ 2x CROSS BLOCKING @ HORZ. JNT. OPTIONAL: PROPRIETARY "ZIP-SYSTEM" WALL PANEL SHEATHING

NOTE: 2 EXTEND PLYWOOD WALL SHEATHING FULL WALL HEIGHT FROM FND DOUBLE PLATE UP TO ENG/MFR FLOOR TRUSS TOP CHORD FRAME

(TYP) NOM. 6.25" (THK) WALL CAVITY FIBERGLASS INSULATION; UN-FACED; FULL WALL HEIGHT AND CAVITY WIDTH (U2. R-VALUE = 19)

EXTR HORZ. SHEATHING JOINT (TYP) BETWEEN WALL STUDS, BLOCKING

(TYP. EXTERIOR FINISHING) VINYL LAPPED SIDING; MIN. 6" EXPOSURE. (CEDAR WOODGRAIN APPEARANCE (REF MFR. FOR HIGH WIND FASTENER TYPES AND PATTERN) (COLOR SELECTED BY OWNER)

"TYPAR" BUILDING WRAP AIR/WEATHER BARRIER; MIN. 6" OVER LAP HORZ SEAMS; (FULL WALL HT.)

CONT. COPPER FLASHING TRIM (16oz); LAPPED SEAL TAPED TO SHEATHING, FORMED TO CHAMFER EDGE & MIN. 4" VERT. LEG

(TYP) BUILT-UP BANDING ASSEMBLY; CONT. (CCA) NOM. P.T. 2x3 CAP BOARD; TOP EDGE 1/2" CHAMFERED @ 45° OVER P.T. (CCA) 2x12 CONT. BAND BOARD; (SCARF-CUT END SKN JNTS) WRAP WITH VINYL COATED ALUMINUM BREAK METAL

5% GROUND SLOPE WITHIN 10' PERIMETER

NOM. 8" CONCRETE MASONRY UNIT CONT. FOUNDATION WALL; (TOP COURSE CONT. NOM. 8" HEADER BLOCK) CONC FILLED CELLS SOLID AT VERTICAL REINFORCEMENT; No 4's HOOKED WALL TO FOOTING DOWELS @ 4'-0" O/C AND MAX 1'-4" FROM EACH "INSIDE/OUTSIDE" FOUNDATION CORNER INTERSECTIONS (PEA GRAVEL (3/8"-1/2" MAX AGGREGATE SIZE; CONC. Fc 3000 PSI)

CONT. CONCRETE REINFORCED STRIP FOOTING (REF. ARCH SHEET AS/100 FOR DETAILED REINFORCING & FOOTING SCHEDULE) MIN. 24" HORZ RE-BAR LAP SPICE AND WIRE TIED; CONCRETE: Fc 3500 PSI; 28 DAY

05 EXTR PLYWOOD ROOF SHEATHING; (APA STRUCTURAL RATED) TUNG & VEE GROOVED (OR) ALUM. "H" CLIP SHEET CONNECTIONS; NOM. PANEL THICKEN: NOM. 3/4" FOR TRUSSES SPACED @ 19.2"-MAX. 24" O/C; 5/8" FOR TRUSSES OR 2x FRAM'G @ MIN. 16" O/C (OPTIONAL: PROPRIETARY "ZIP-SYSTEM" ROOF PANEL SHEATHING)

(TYP) "INSUL'N STOP" CONT. 2x10 VERT CROSS BLOCKING BETWEEN ROOF TRUSSES

HURRICANE TIE DOWN CLIP @ EACH TRUSS RAFTER BEARING POINT; (H.D. GALV.; ASTM-A535 G90) (SIM. MFG: SIMPSON "H10S"-189g) INSTALL OUTBOARD WALL FRAMING OVER WALL SHEATHING FOR CONT LOAD PATH

(TYP) "GWB NAILER" CONT. 2x HORZ CROSS BLOCKING BETWEEN ROOF TRUSSES

NOM. 12" (THK), UN-FACED FIBERGLASS BATT INSULATION; ATTIC/CEILING THERMAL ENVELOPE (U5. R-VALUE = 38)

(TYP) NOM. 5/8" (MOISTURE RESISTANCE) GYPSUM BOARD CEILING PANELS W/ TAPERED EDGES (GA-214 LEVEL 4 PREP; (USG "TUFF-HI" CEILING SURFACE FINISH ALL EXPOSED AREAS; U.N.O)

(TYP) GWB HEAD WALL & CORNERS FIBER-REINFORCED JOINT SEAL (AIR BARRIER/SEAL)

(TYP) BETWEEN WALL STUDS, PROVIDE 2x6 VERT BLOCKING AT ABUTTING (HORZ JOINT) SHEATHING PANEL EDGES

(TYP) NOM. 1/2" GYPSUM WALL BOARD (GWB); TAPERED EDGES (GA-214 LEVEL 4 FINISH); PROVIDE MAX. 3/8" ABOVE FLR CLR GAP (U4. R-VALUE = 0.45)

NOTE: 1 PROVIDE (MIN.) TRIPLE EXTERIOR WALL (KING) STUDS AT 90° INSIDE/OUTSIDE BLD'G CORNERS; AT WINDOW/DOOR JAMBS PROVIDE DOUBLE (KING) STUDS AND BEARING HEADER (JACK) STUDS

(TYP) 2x6 WOOD WALL STUDS FRAMING & BLOCKING (SPF-No.1 (OR) SYP-No.2 WALL STUDS KD-19%) WALL STUDS @ 1'-4" O.C. MAX.

(TYP) "AIR/MOISTURE BARRIER" BUILDING PERIMETER CONCEALED COUNTER FLASHING; THERMOPLASTIC MEMBRANE BARRIER (40 MIL) SELF-ADHERING/FLEXIBLE STRIP SHEET. EXTEND UP VERTICALLY BEHIND BLD'G SHEATHING OVER WALL STUDS, SILL PLATE & OVERLAY SLAB FOUNDATION EDGE (MIN. 6"); LAP BUILDING CORNERS (MIN. 12") SEAL/ADHERED SEAM LAPS; MIN. 6" OVERLAP JOINTS

CONT. P.T. 2x6 BEARING SILL PLATE (CCA 0.80pcf) STAGGER (MIN. 24" DIST) JOINTS; SECURE W/ 5/8" DIA. H.D. GALV. (ASTM G90) ALL-THREAD ANCHOR RODS W/ 2" SQ. FLAT WASHER & NUT; (CONC. SLAB/FND EMBED'DT (MIN. 14" DEPTH) PROVIDE LOCK NUTS & FENDER WASHER); MAX. SPACING 4'-0" O.C.; AND (TYP) MAX. 1'-4" EACH FOUNDATION "INSIDE/OUTSIDE" CORNER INTERSECTIONS; TIE TO PERIMETER CONTINUOUS EDGE No. 4 NOSING BAR

CONCRETE (ELEVATED) SLAB-ON-GRADE FLOOR SLAB; REIN. W/ 2.1x2.1-6x6 W.W.F.(SHEET) & MIN. 2" SURFACE COVERAGE (CONC. FINISHED: STEEL TROWEL; Fc 3000 PSI)

BASE FOUNDATION: CONTINUOUS EXTRUDED POLYSTYRENE INSULATED TONGUE & GROOVE PERIMETER WALL PANELS; NOM. 1.5" (R-7.5)

04 PLASTIC SHEETING VAPOR BARRIER (15 MIL) LAP FND SHEET OVER BASE SHT

CLEAN COMPACTED COURSE GRANULAR (DRAINAGE CONTROL) SUB-FILL AND BASE FILL SOILS

(TYPICAL) PREP SOIL UNDER FOOTINGS: REMOVE ORGANIC MATERIALS AND TERMITE TREAT; BEFORE CONSTRUCTING BUILDING FOUNDATIONS; SHALL BE CONTRACTOR RESPONSIBILITY TO PROVIDED FOR REFERENCE PROFESSIONAL SOIL ENGINEER'S SUBSURFACE GEO-TECHNICAL SOIL REPORT FOR RECOMMENDATIONS TO STRUCTURALLY SITE PREP AND CONDITION TO IMPROVE EXISTING GRADES (DENSIFY THE SOIL) TO ACHIEVE PROPER SOIL BEARING CAPACITIES

1 TYPICAL WALL SECTION SCALE: 1" = 1'-0"

01 (TYP) CONT. SELF-ADHERED FLASHING EDGE STRIPPING (MIN. 12"W. 40mils) OVER METAL FLASHING EDGE (GRACE'S ICE & WATER SHIELD)

SECURED FLASH'G W/ APPROPRIATE STAINLESS STL FASTENERS 6" O/C PER ROW; (2) ROWS STAGGER 3"

CONT. 2x SUB-FASCIA FIELD CUT TO FIT; CHAMFER TOP EDGE TO MATCH ROOF SLOPE

CONTINUOUS PRE-FORMED/PRE-FINISHED MTL. DRIP EDGE/LOW EAVE-CLEAT FLASHING (24ga); SINGLE HEM EDGE (COLOR MATCH ROOF PNLS) FULL FLANGE SET IN ROOFING MASTIC; (PROVIDE SECTIONAL EXPANSION/SLIP JOINTS AT SECTIONAL END CONNECTIONS)

ALUM GUTTER (OGEE STYLE) AND DOWNSPOUTS (NOT SHOWN FOR CLARITY); PROVIDE ALUM. SUPPORT HANGER CROSSBAR-BRACKET; UNDER EAVE FLASHING SECUREMENT W/ STAINLESS STL SCREW FEASTERS

3 TYPICAL LOW EAVE ROOF SECTION SCALE: 1-1/2" = 1'-0"

CONT. COPPER COUNTER FLASHING (16oz.); LAPPED SEAL TAPE TO SHEATHING, FORMED TO CHAMFER EDGE; MIN. 4" VERT. LEG

CONT. COPPER COUNTER FLASHING (16oz.); LAPPED SEAL TAPE TO SHEATHING, FORMED TO CHAMFER EDGE; MIN. 4" VERT. LEG

CONT. 2x10 PERIMETER KICK/BAND BOARD TRIM (DOUBLE KILN-DRIED) INSTALL W/ BARKSIDE INWARD 3/4" CHAMFER TOP EDGE (MITER/SCARF-CUT BUTT/END SKN JNTS) (BACK PRIME/PAINTED)

CONT. 2x12 PERIMETER BAND BOARD TRIM; (DOUBLE KILN-DRIED) INSTALL W/ BARKSIDE INWARD; (MITER/SCARF-CUT BUTT/END SKN JNTS) (BACK PRIME/PAINTED)

FINISHED PATIO CONC SLAB (TYP) CONT. POLYURETHANE CONSTRUCTION SEALANT/ADHESIVE OVER NEOPRENE BACKER ROD

(TYP) "BUILDING PERIMETER" IMPERMEABLE WALL BASE COUNTER FLASH'G

B TYPICAL BANDBOARD PERIMETER TRIM SCALE: 3" = 1'-0"

01 ROOF MEMBRANE UNDERLAYMENT, "ROOF SECONDARY WATER-BARRIER" (MIN. (+140mil)); SINGLE PLY MYLAR SURFACE FINISHED SELF-ADHERED, RUBBERIZED ASPHALT, FLEXIBLE SHEETING; LAP EDGES MIN. 6"; PROVIDE ADDITIONAL SINGLE STRIPPING AS COUNTER FLASHING AT ALL HEADWALL INTERSECTIONS AND CHANGE OF SLOPE INTERSECTIONS AT HIPS & VALLEYS; EXTEND MIN. 6" VERT./HORZ OVERLAPS (SIMILAR MFG.: WR GRACE "ICE & WATER SHIELD" W/ OPTIONAL "RIPCORD"

02 ARCHITECTURAL METAL ROOF; PRE-FINISHED 5V-CRIMP (RIB NOM. 1/2" HT) PANELS MIN.26 GAUGE; (MAX PANEL: 24" WIDE; 45'-0 RECOMMENDED LENGTHS); ACRYLIC COATED GALVALUME; SECURE W/ APPROPRIATE SIZE AND SPACING EXPOSED STAINLESS STL CAP (METAL TO METAL) FASTENERS W/ NEOPRENE SEAL WASHERS (SIZE PROPERLY (DIAMETER/LENGTH) TO RESIST PANEL EXPANSION/CONTRACTION (AND) FASTENER "BACK-OUT." REFERENCE PROPRIETARY MFG. RECOMMENDATIONS FOR COMPLETE ASSEMBLY DETAILS FOR FULL SYSTEM INSTALLATION W/ (20 YR.) WARRANTIES: INSTALLATION, MATERIAL FINISH AND HIGH WIND UP-LIFT RESISTANCE FOR 130mph WIND SPEED; PROVIDE W/ MFR'S AND CONTRACTOR'S "QUALITY OF ASSURANCE"; RECOMMENDED PANEL FASTENER SPACING: (MAX. 6" O/C LINEAR ROOF PERIMETER "END" PANEL EDGES; MAX. 12" O/C EACH WAY WITHIN 48" SQUARE "IN-FILL" AREAS OF ROOF EDGE CORNERS; MAX. 16" O/C ROOF "IN-FILL" PANEL AREAS.) (UL LISTED "CLASS A" ROOF MATERIAL) COLOR FINISH: COLORFAST GALVALUME.

03 BUILDING WRAP; "VAPOR PERMEABILITY/MOISTURE BARRIER" SHALL BE INSTALLED EXTERIOR SHEATHING PANELS AND "BACKWRAP" (FLEXI-TAPED FLASHING) THRU ROUGH DOOR AND WINDOW OPENINGS. OVERALL MEMBRANE MATERIAL SHALL NOT HAVE UNSEALED SEAMS, CUTS, CRACKS PENETRATIONS OR ANY VOIDS IN THE PROPRIETARY PRODUCT; AND VERTICAL AND HORIZONTAL SEAMS SHALL BE OVERLAPPED (MIN. 6") AND CONTINUOUS SEAL TAPED. ALL MECHANICALLY FASTENER SHALL BE SEALED; CONTRACTOR SHALL BE RESPONSIBLE FOR SEAL TAPING ALL JOINT SEAMS W/ PROPRIETARY MEMBRANE TAPE. PROPRIETARY BARRIER MEMBRANE PERFORMANCE: FLEXIBLE AND TEAR RESISTANCE, HIGH BREATHABILITY (VAPOR TRANSMISSION); HIGH AIR PENETRATION PROTECTION; HIGH MOISTURE RESISTANCE (HYDROSTATIC HEAD); (SPECIFIED MFR: "TYPAR" COMMERCIAL BUILDING WRAP)

04 "VAPOR BARRIER (VB)" UNDER CONDITIONED SPACES ONLY (MIN. 15mils) UNDER CONCRETE FLOOR SLAB MOISTURE PROTECTION-PUNCTURE RESISTANT PLASTIC SHEETING (METALLOCENE POLYOLEFIN); PROVIDE MIN. 6" SEAL LAPPED JOINTS WITH TAPED SEAMS INSTALLATION; THRU BARRIER/SLAB PIPE PENETRATIONS (ei. PLUMBING AND ELECTRICAL SERVICES) SHALL BE TAPED (OR) MASTIC (MFR. "STEGO INDUSTRIES-15MIL," ASTM E1745 CLASS A; WITH 0.01 PERMANENCE)

05 NOM. 5/8" EXTERIOR PLYWOOD PANEL ROOF SHEATHING; (APA STRUCTURAL RATED) OPTIONAL: PROPRIETARY ROOF PANEL SHEATHING W/ BUILT-IN ENERGY EFFICIENT MOISTURE/VAPOR BARRIER SURFACE FINISH; ALL PANEL JOINTS SHALL BE PRESSURED SEAM-SEALED TAPED (ENGINEERED PRODUCT SIM. HUBER ENG'R WOODS-"ZIP SYSTEM") PANEL FASTENER TYPES AND SPACING SHALL BE GOVERN BY NCR-12 FOR COASTAL HAZARD HIGH WIND ZONE (AREAS PRONE TO HURRICANE FORCED MIN. 130 mph)

06 NOM. 1/2" EXTERIOR PLYWOOD PANEL WALL SHEATHING (APA STRUCTURAL GRADE) STAGGER PLYWOOD VERT/HORZ JNTS. OVER WALL STUDS W/ BLK'G @ HORZ. JNT. OPTIONAL: PROPRIETARY WALL PANEL SHEATHING W/ BUILT-IN ENERGY EFFICIENT MOISTURE/VAPOR BARRIER SURFACE FINISH; ALL PANEL JOINTS SHALL BE PRESSURED SEAM-SEALED TAPED (ENGINEERED PRODUCT SIM. HUBER ENG'R WOODS-"ZIP SYSTEM") (U1. R-VALUE = 0.63)

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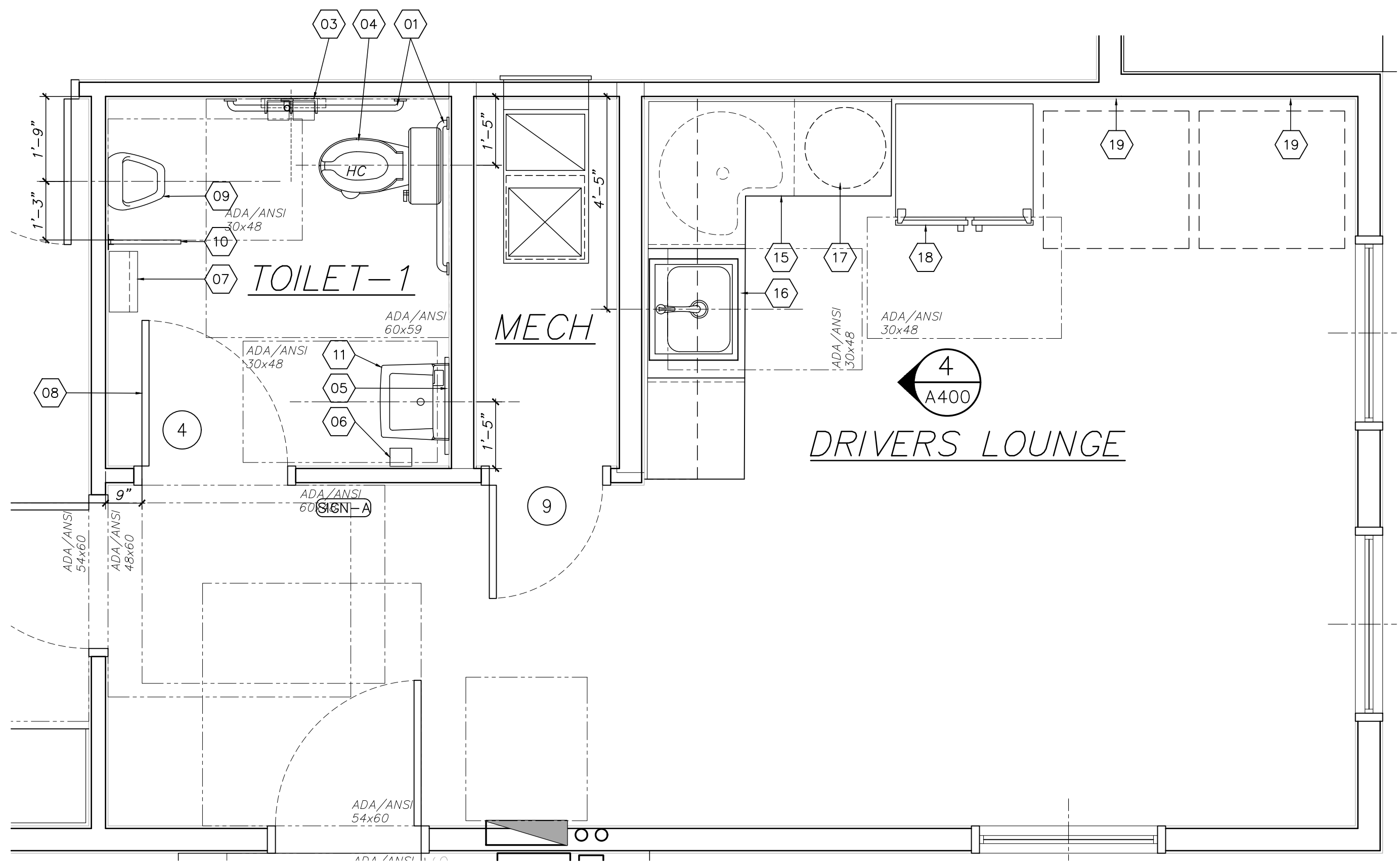
Proposed Dispatch Office Building for
Crete Solutions, LLC
 2544 US 401 N
 Lillington, North Carolina 27546
 job status
 Contract Documents - Issued for Construction

Design Elements
 M. L. Saeed (Michael), AIA, LEED-AP
 Architect / President
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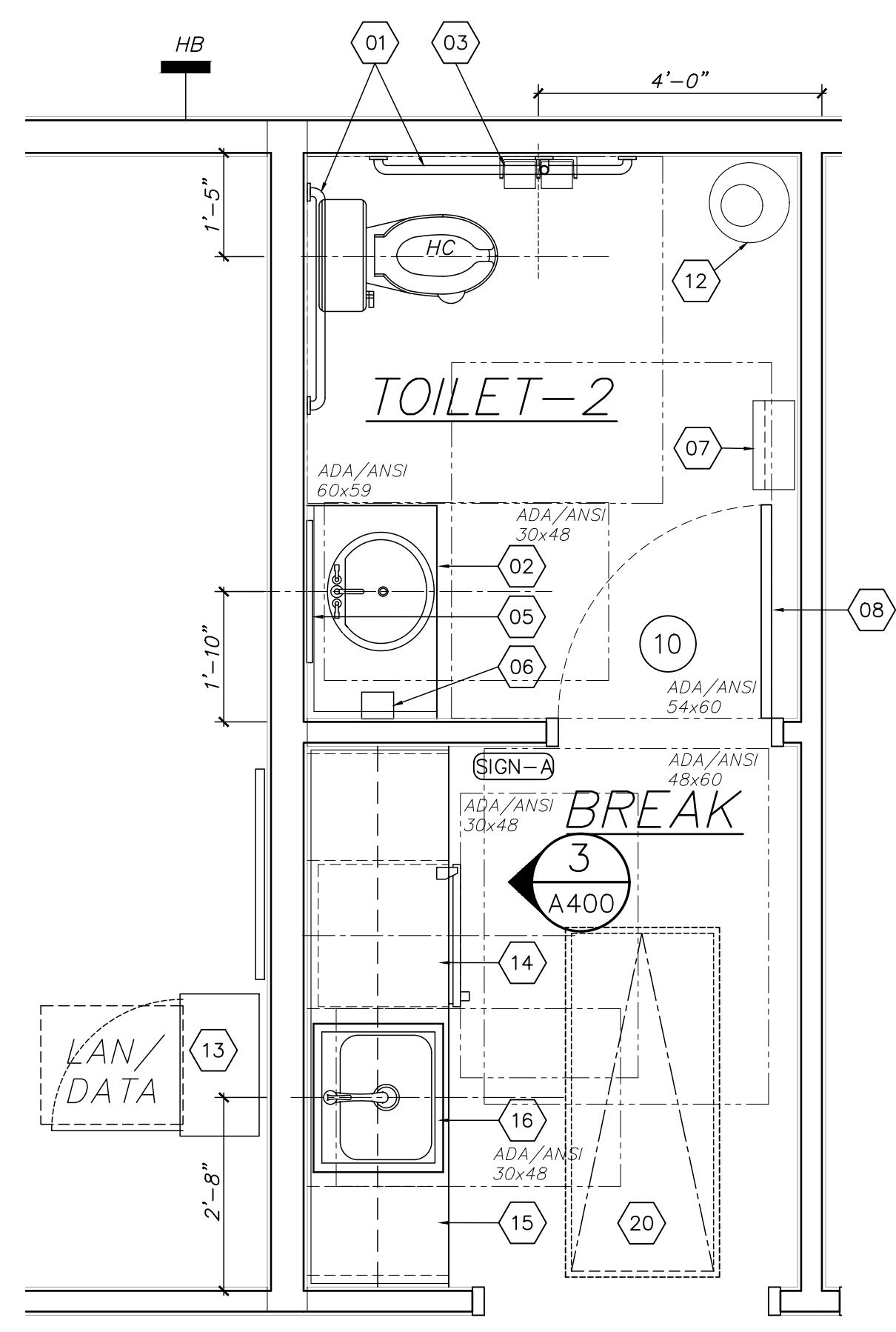
06/2021

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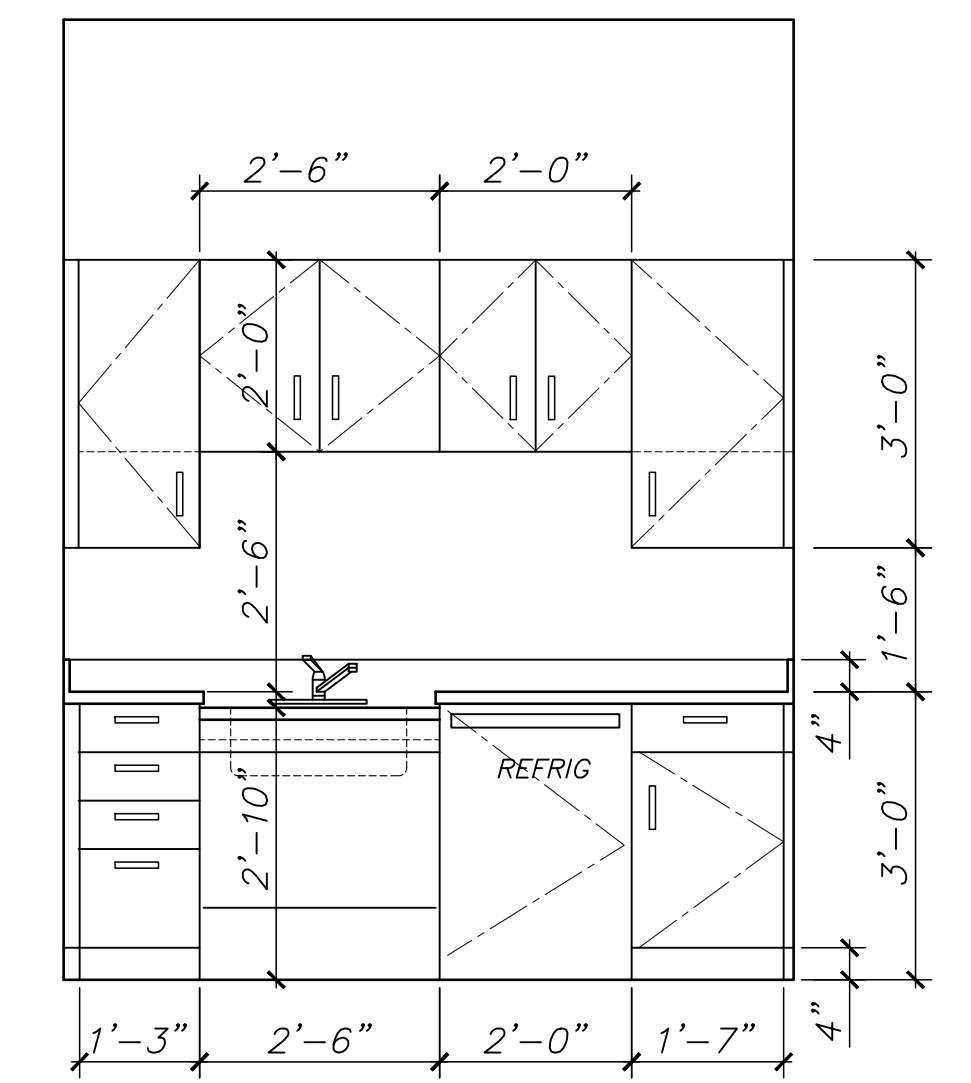
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A300
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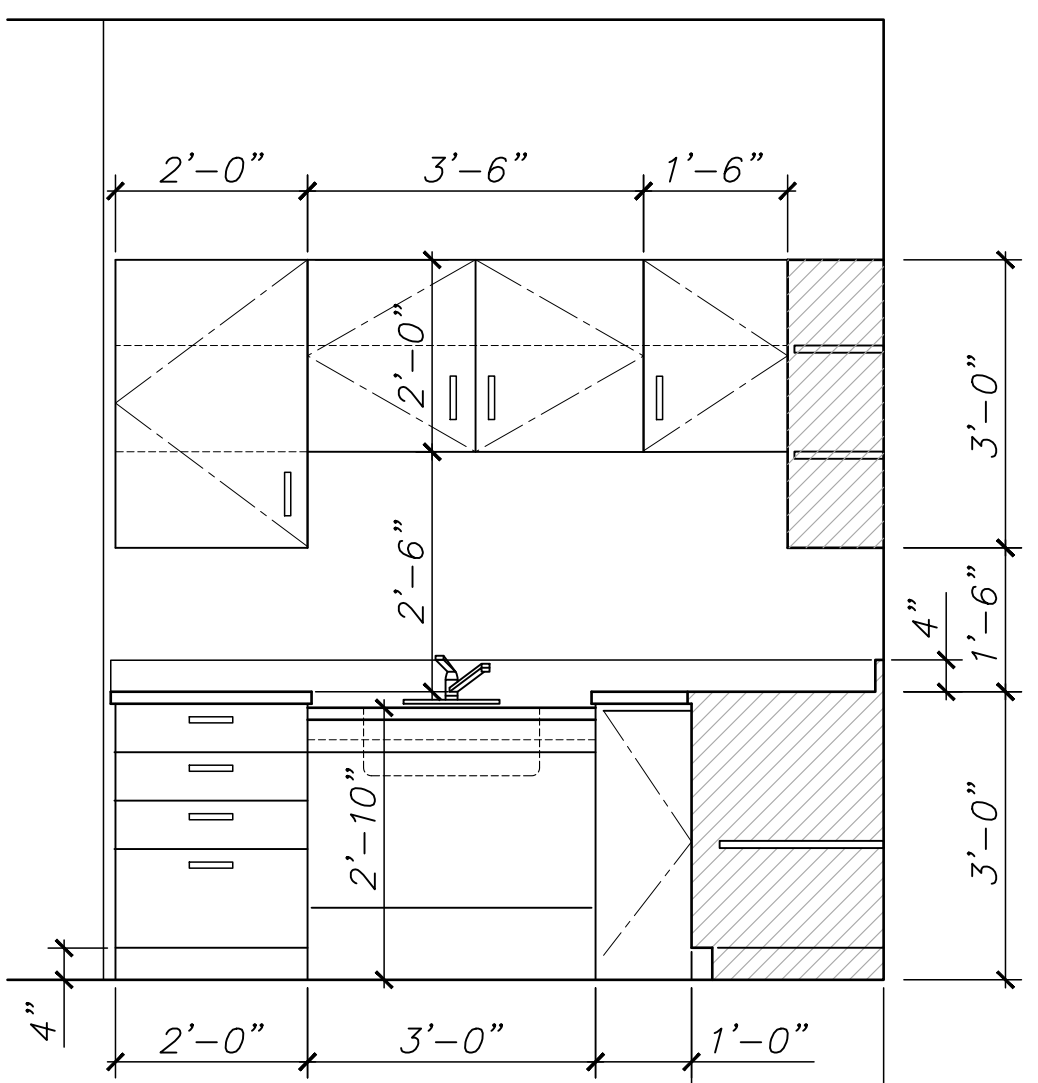
1 ENLARGED RESTROOM AND DRIVERS LOUNGE PLAN
 A400 SCALE: 1/2" = 1'-0"



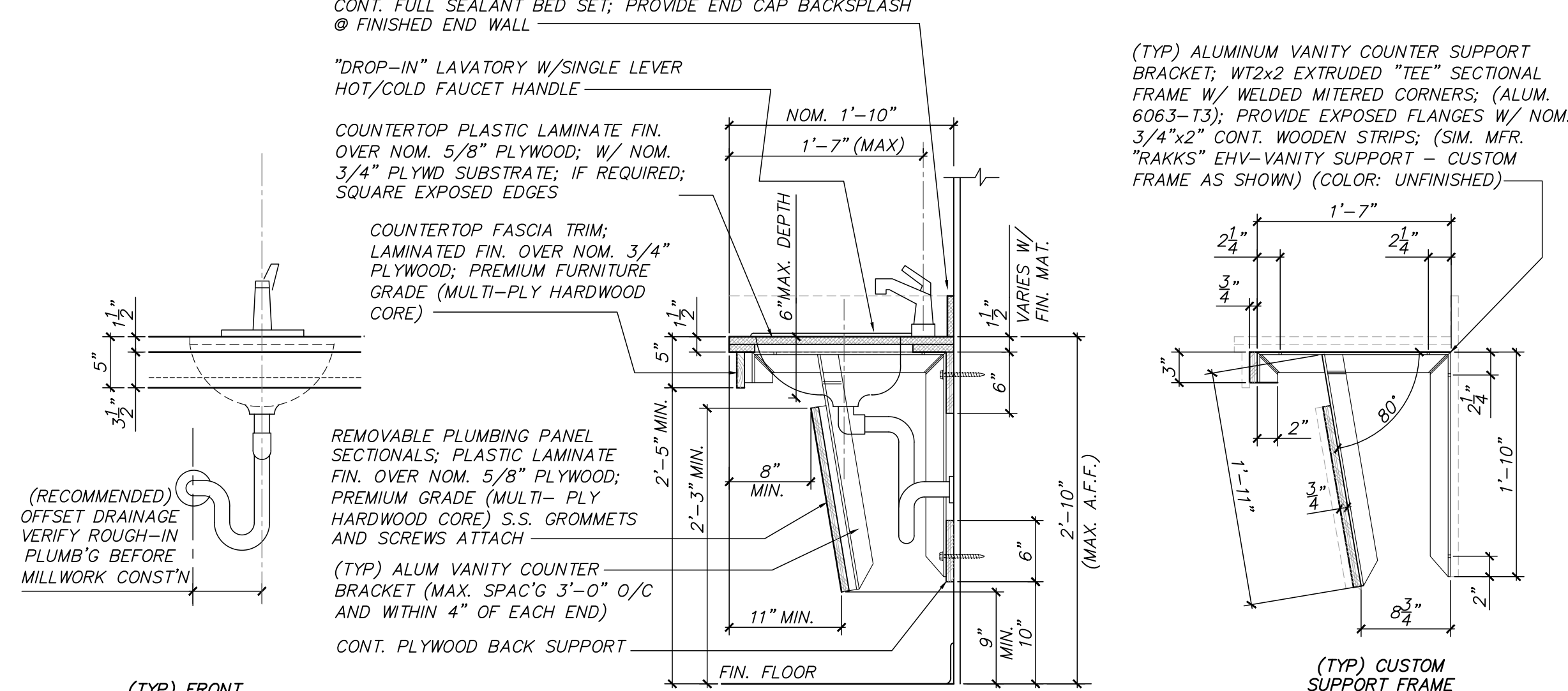
2 ENLARGED RESTROOM AND BREAK PLAN
 A400 SCALE: 1/2" = 1'-0"



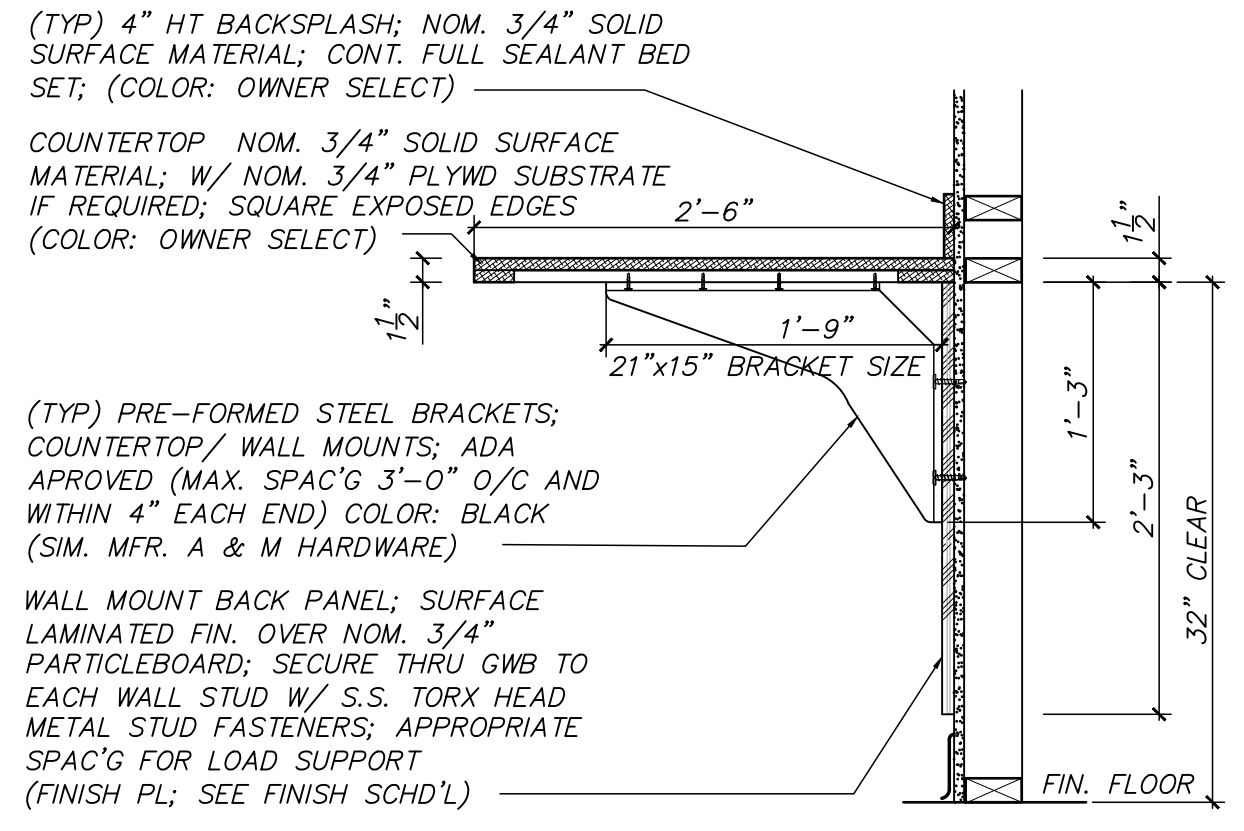
3 ENLARGED BREAK ELEVATION
 A400 SCALE: 1/2" = 1'-0"



4 ENLARGED LOUNGE ELEVATION
 A400 SCALE: 1/2" = 1'-0"



A ACCESSIBLE VANITY SECTION
 A400 SCALE: 1" = 1'-0"



B COUNTER DETAIL
 A400 SCALE: 1" = 1'-0"

PLAN KEYNOTES THIS SHEET ONLY

- 01 1 1/2"Ø - STAINLESS STEEL HANDRAIL BACK WALL & SIDE WALL MOUNTED "HORIZONTAL GRAB BARS" WITH "VERTICAL SIDE WALL PULL BAR" (SEE STANDARD HC ACCESSIBILITY DETAILS) SIMILAR MFG: GAMCO PRODUCTS "GRAB BAR"; FINISH: BRUSHED SATIN/TEXTURE GRIP "T". (REFERENCE STANDARD HC ACCESSIBILITY DETAILS 1/N104)
- 02 CUSTOM VANITY UNIT (MIN. 22"(D)); PLASTIC LAMINATE COUNTERTOP AND BACKSPLASH W/ "DROP-IN" LAVATORY; FAUCET FIXTURE SETBACK FROM FRONT RIM (MAX. DIST. 19") PROVIDE ADA COMPLIANT ELECTRONIC SENSOR ACTIVATED FAUCET CONTROLS. (MAX. RIM HT. 34" A.F.F.) SEE GENERAL ACCESSIBILITY REQUIREMENTS (SEE STANDARD HC ACCESSIBILITY DETAILS 1/N100) AND SECTION A/A400 (REF PLUMBING DWG'S FOR ADDITIONAL INFOR'N)
- 03 TOILET TISSUE (MULTI-ROLL) STAINLESS STL. DISPENSERS; TWO UNITS, SURFACE MOUNT (SIM. MFG: BOBRICK; B-4288)
- 04 FLOOR MOUNTED TOILET; TANK TYPE W/ ELONGATED BOWEL AND OPEN-FRONT SEAT WITH INTEGRATED HANDLE; ADA/ANSI ACCESSIBLE; PROVIDE FLUSH VALVE LEVER ON ACCESSIBLE SIDE CLEAR FLOOR AREA (REFERENCE PLUMBING DWGS)
- 05 WALL MOUNTED VANITY MIRROR - (1/4" TEMP/SAFETY) W/ METAL EDGE CENTERED TO SINK (UNLESS NOTED OTHERWISE FULL LENGTH OF VANITY; VERIFY W/ OWNER); (MIN. 24"(W) x 36"(H)). MOUNT BOTTOM EDGE 40" MAX A.F.F.
- 06 SOAP SANITIZER AND LOTION DISPENSER; SURFACE MOUNTED (SIM. MFG: GEORGIA- PACIFIC; "53253"; COLOR: TRANS-SMOKE)
- 07 COMBINATION; STAINLESS STL. SURFACE-MOUNT FOLDING PAPER TOWEL DISPENSER (ABOVE) AND WALL WASTE RECEPTACLE (BELOW) (SIM. MFG: BOBRICK B-3944-BARRIER FREE)
- 08 (TYP) "BARRIER FREE" ACCESSIBILITY COAT HOOK, MOUNTED (HT. 48" A.F.F.) (SIM. MFG: BOBRICK BRUSHED-NICKEL FINISH)
- 09 WALL MOUNTED URINAL; PROVIDE THRU-WALL VERTICAL CARRIAGE (THIN WALL), ADA/HC ACCESSIBLE WHERE NOTED (HC); (REF PLUMBING DWGS)
- 10 WALL MOUNTED URINAL/PRIVACY (24" WIDTH x 48" HEIGHT; MOUNT BOTTOM EDGE 12" AFF) PARTITIONS (DESIGN WEIGHT SUPPORT 250 lbs); PROVIDE STAINLESS STEEL PANELS; WALL MOUNTED INSTALLATION WITH CONTINUOUS STAINLESS STEEL WALL MOUNTING BRACKETS (FULL PANEL LENGTH)
- 11 WALL-HUNG LAVATORY 19"x 17", VITREOUS CHINA, WITH MATCHING PIPE SHROUD, WHITE; PROVIDE WITH STEEL BRACKET WALL HANGER, INSTALL ADA COMPLIANT ELECTRONIC SENSOR ACTIVATED FAUCET CONTROLS.; FAUCET FIXTURE SETBACK FROM FRONT RIM (MAX. DIST. 19") (UNLESS NOTED OTHERWISE;.) REFERENCE ACCESSIBILITY DETAILS
- 12 WASTE RECEPTACLE STAINLESS STL. W/ DOME-LIP; FLOOR FREE-STANDING; (SIM. MFG: BOBRICK; B-2300)
- 13 OWNER'S ROUTER/DATA STATION; 19" METAL RACK
- 14 NOM. 24" UNDERCOUNTER REFRIGERATOR (PROVIDED BY OWNER; INSTALLED BY CONTRACTOR)
- 15 NOM. 24"(D)x 36"(H) (UNLESS NOTED OTHERWISE) STANDARD BUILT-IN BASE CABINETS W/ (HP) PLASTIC LAMINATED FINISHES; COUNTER TOP W/ 4" BACKSPLASH, FRONT FACE CABINETS W/ DOOR PANELS AND DRAWER; NOM. 12" DEEP WALL CABINETS W/ ADJUSTABLE SHELVING
- 16 STAINLESS STEEL (HEAVY GAUGE 304 TYPE; 33mil) SHALLOW BASIN "DROP-IN" KITCHEN SINK, FULL SEALANT BED SET; PROVIDE LEVER TYPE HOT/COLD WATER SUPPLY HANDLES W/ GOOSE NECK FAUCET; (FAUCET MAX. FRONT RIM DIST. 19") PROVIDE CLEAR FRONT OPEN'G FOR ACCESSIBLE TO PERSONS W/ DISABILITIES SEE DETAILS; (REF. PLUMBING FOR ADD'N INFOR'N)
- 17 PROPOSED LOCATION: (28 GAL CAPACITY; UNLESS DIRECTED OTHERWISE BY OWNER) ELECTRIC "LOWBOY" WATER HEATER (UNDERCOUNTER); PROVIDE DRAINAGE PAN PLUMBING AND PRESSURE RELEASE VALVE "BLOW-OUT". (PLUMBING CONTRACTOR SHALL PROVIDE, ELECTRICAL CONTRACTOR SHALL WIRE FOR FULL POWER SERVICE)
- 18 RESIDENTIAL STYLE FREE-STANDING (SUPPLIED BY OWNER) REFRIGERATOR/FREEZER W/ ICE MAKER; [MAX. CLR FLOOR SPACE 36"(W)] (CONTRACTOR INSTALL), CONTRACTOR SHALL INSTALL ICE/WATER LINES AND LOCAL WATER SHUT-OFF VALVE.
- 19 PROVIDE DEDICATED POWER FOR PROPOSED VENDING MACHINE(S) (PROVIDED BY OWNER) (REFERENCE ARCH SHEET 1/A100)
- 20 ATTIC ACCESS "CEILING RECESS FOLDING PULL-DOWN" LADDER, (REFERENCE ARCH SHEET 1/A100)

GENERAL ACCESSIBILITY REQUIREMENTS

THE BUILDING OWNER AND GENERAL CONTRACTOR SHALL INSURE THAT THIS FACILITY SHALL BE "BARRIER FREE" ACCESSIBLE TO AND USABLE BY PERSON(S) WITH DISABILITIES. ACCORDING TO THE LATEST EDITION TO THE ICC-IBC/NCBC 2012 CHAPTER 11 & ICC/ANSI A117.1 ACCESSIBILITY CODES REQUIREMENTS OF THE APPLICABLE STANDARDS. THE FOLLOWING IS A PARTIAL LIST (BUT NOT LIMITED TO) OF REQUIREMENTS. (REFERENCE 1/N103 FOR ADDITIONAL DETAILS AND GENERAL NOTES)

- 1. OPERABLE DOOR HARDWARE SHALL BE MOUNTED BETWEEN 30"(MIN.) AND 42"(MAX.) ABOVE FLOOR OR GROUND LEVEL AND BE LEVER TYPE, DESIGNATED FOR (HC) ACCESSIBLE.
- 2. TOILETS ROOMS & ACCESSORIES:
 - A. LAVATORY TO HAVE LEVER HANDLES, SPRING FAUCETS OR SELF METERING FAUCETS.
 - B. A COAT HOOK 48" ABOVE THE FLOOR SHALL BE MOUNTED ON THE BACK SIDE OF THE HANDICAPPED STALL DOOR (or) BACK OF ENTRY DOOR.
 - C. LOCATE THE WATER CLOSET (MIN.)16.6" TO (MAX)17.6" FROM THE CENTER LINE OF THE FIXTURE TO THE FINISHED WALL SURFACE. THE SEAT WILL BE 17" TO 19" ABOVE THE FLOOR TO THE TOP OF SEAT; TANK TYPE FLUSH LEVER SHALL BE POSITION TOWARD (SIDE APPROACH) ACCESSIBLE CLEAR FLOOR AREA FOR SIDE REACH
 - D. PROVIDE ONE 42" AND ONE 36" LONG x 1 1/2" OUTSIDE DIAMETER PEENED GRAB BARS, 1 1/2" FROM THE WALL, WITH (36) BEHIND TOILET AT 6" FROM THE WALL, AND (42) ADJACENT TO AT 12" FROM THE WALL AND CENTERLINE MEASURED 33"-36" PARALLEL TO AND ABOVE THE FLOOR; PROVIDE ADDITIONAL SIMILAR 18" VERTICAL PULL BAR 1-1/2" ABOVE HORIZONTAL SIDE BAR CENTERLINE MEASURED AVE. 39"-41" FROM REAR WALL.
 - E. LAVATORY TO BE MOUNTED 34"(MAX.) ABOVE THE FINISHED FLOOR TO RIM WITH CLEAR FLOOR KNEE SPACE OF 30" IN WIDTH AND 27" IN CLEAR HEIGHT; (29" CLEAR UNDER FRONT EDGE). EXPOSED PLUMBING SHALL BE CLEAR OF ACCESSIBLE FLOOR AREA AND PROTECTED WITH PROPRIETARY VENDOR SUPPLIED "VINYL INSULATED PROTECTION COVERS" SHALL BE PROVIDED TO EACH SERVICE LINE (SIM. MFG. "TRUEBRO")
 - F. INSTALL MIRROR 40"(MAX.) ABOVE THE FINISHED FLOOR (BOTTOM FIN. EDGE) AND (72" TOP FIN. EDGE).

(TYP) 4" HT BACKSPLASH; PLASTIC LAMINATE FIN. OVER NOM. 5/8" PLYWOOD; PREMIUM GRADE (MULTI-PLY HARDWOOD CORE), CONT. FULL SEALANT BED SET; PROVIDE END CAP BACKSPLASH @ FINISHED END WALL

"DROP-IN" LAVATORY W/SINGLE LEVER HOT/COLD FAUCET HANDLE
 COUNTERTOP PLASTIC LAMINATE FIN. OVER NOM. 5/8" PLYWOOD; W/ NOM. 3/4" PLYWD SUBSTRATE; IF REQUIRED; SQUARE EXPOSED EDGES

COUNTERTOP FASCIA TRIM; LAMINATED FIN. OVER NOM. 3/4" PLYWOOD; PREMIUM FURNITURE GRADE (MULTI-PLY HARDWOOD CORE)
 (TYP) ALUMINUM VANITY COUNTER SUPPORT BRACKET; WT2x2 EXTRUDED "TEE" SECTIONAL FRAME W/ WELDED MITERED CORNERS; (ALUM. 6063-T3); PROVIDE EXPOSED FLANGES W/ NOM. 3/4"x2" CONT. WOODEN STRIPS; (SIM. MFR. "RAKKS" EHV-VANITY SUPPORT - CUSTOM FRAME AS SHOWN) (COLOR: UNFINISHED)

REMOVABLE PLUMBING PANEL SECTIONALS; PLASTIC LAMINATE FIN. OVER NOM. 5/8" PLYWOOD; PREMIUM GRADE (MULTI-PLY HARDWOOD CORE) S.S. GROMMETS AND SCREWS ATTACH
 (TYP) ALUM VANITY COUNTER BRACKET (MAX. SPAC'G 3'-0" O/C AND WITHIN 4" OF EACH END)
 CONT. PLYWOOD BACK SUPPORT

(TYP) FRONT ELEVATION N.T.S.
 (TYP) SECTION ELEVATION N.T.S.
 (TYP) CUSTOM SUPPORT FRAME SECTION ELEVATION N.T.S.

no.	0	12/06/21	ISSUE FOR CODE ENFORCEMENT REVIEW & APPROVAL
date			
revision			

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Proposed Dispatch Office Building for
Crete Solutions, LLC
 2544 US 401 N
 Lillington, North Carolina 27546
 job status
ENLARGED RESTROOM PLAN & DETAILS
 Contract Documents - Issued for Construction

M.L. Shapec (Michael), AIA, LEED-AP
 Architect / President
 1213 Colereth Drive, Suite 142
 Wilmington, North Carolina 28405
 910.392.1931

06/2021

12/01/21
 job no. CRETE/LIL
 date
 drawn by MSAIEED
 checked by MSAIEED
 drawing no.

A400
 revision no. 0

DOOR AND FRAME SCHEDULE														
DOOR NO.	SPACE	DOOR						FRAME			HDW SET	REMARKS NOTE 1 & 2	DOOR NO.	
		OPENING			MAT'L.	TYPE	GLAZING	DETAILS						
		WIDTH	HGT.	THK.						MAT'L.	HEAD	JAMB	SILL	
EXTERIOR DOORS - ALL UNITS														
		HOLLOW METAL												
1	ENTRY	3'-0"	7'-0"	1-3/4"	1-HM	A	FULL	CLAD	1/A601 (ACCESSIBLE SILL)				Exterior Outswing Door	1
2	ENTRY	3'-0"	7'-0"	1-3/4"	1-HM	A	FULL	CLAD	1/A601 (ACCESSIBLE SILL)				Exterior Outswing Door	2
3	DRIVER LOUNGE	3'-0"	7'-0"	1-3/4"	1-HM	A	FULL	CLAD	1/A601 (ACCESSIBLE SILL)				Exterior Outswing Door	3
INTERIOR DOORS - ALL UNITS														
4	TOILET	3'-0"	7'-0"	1-3/4"	MDF	B		HM						4
5	BATCH OFFICE	3'-0"	7'-0"	1-3/4"	MDF	B		HM						5
6	BATCH OFFICE	3'-0"	7'-0"	1-3/4"	MDF	B		HM						6
7	DISPATCH OFFICE	3'-0"	7'-0"	1-3/4"	MDF	B		HM						7
8	ADMIN OFFICE	3'-0"	7'-0"	1-3/4"	MDF	B		HM						8
9	UTILITY	2'-4"	7'-0"	1-3/4"	MDF	B		HM						9
10	TOILET	3'-0"	7'-0"	1-3/4"	MDF	B		HM						10
11	BREAK	4'-0"	7'-0"		MDF			HM					Cased Opening	11

MATERIAL LEGEND:
 ALUM - ALUMINUM STOREFRONT
 SCW - SOLID CORE WOOD
 HM - HOLLOW METAL
 I-HM - INSULATED HOLLOW METAL
 WD - WOOD
 PLAS - POLYVINYL REINF HOLLOW CORE
 FRC - FIBERGLASS COMPOSITE OSB CORE
 MDF - MEDIUM DENSITY FIBERGLASS

GLAZING MATERIAL
 FULL - TEMPERED SINGLE PANE (FULL LITE)
 HALF - TEMPERED SINGLE PANE (HALF LITE)
 NVP - TEMERED GLASS NARROW VIEW PANEL
 DV - DOOR VIEWER (180° FIELD OF VIEW MIN)

GHM - GALVANIZED HOLLOW METAL
 GHM - GALV INSULATED HOLLOW METAL
 GMS - GALVANIZED METAL SLATS
 STL - STEEL RAIL ASSEMBLY
 GLV - GALVANIZED METAL RAIL ASSEMBLY
 GIPNL - GALV. INSULATED SECTIONAL PANEL

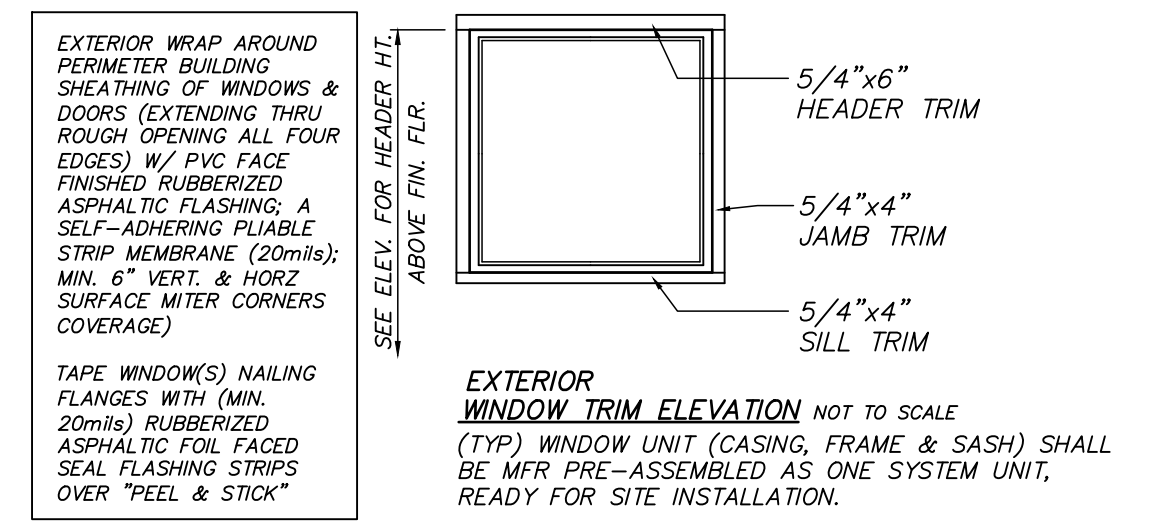
NOTE 1 SUPPLY WALL MOUNTED DOOR STOPS ON ALL DOORS MOUNTED W/ THE HINGE SIDE 5" OR LESS FROM A PERPENDICULAR WALL
 NOTE 2 PAINT ALL FRAMES
 NOTE 3 ALL DOOR HARDWARE TO BE SATIN NICKEL FINISH

ABBREVIATED DOOR HARDWARE NOTES & SCHEDULE

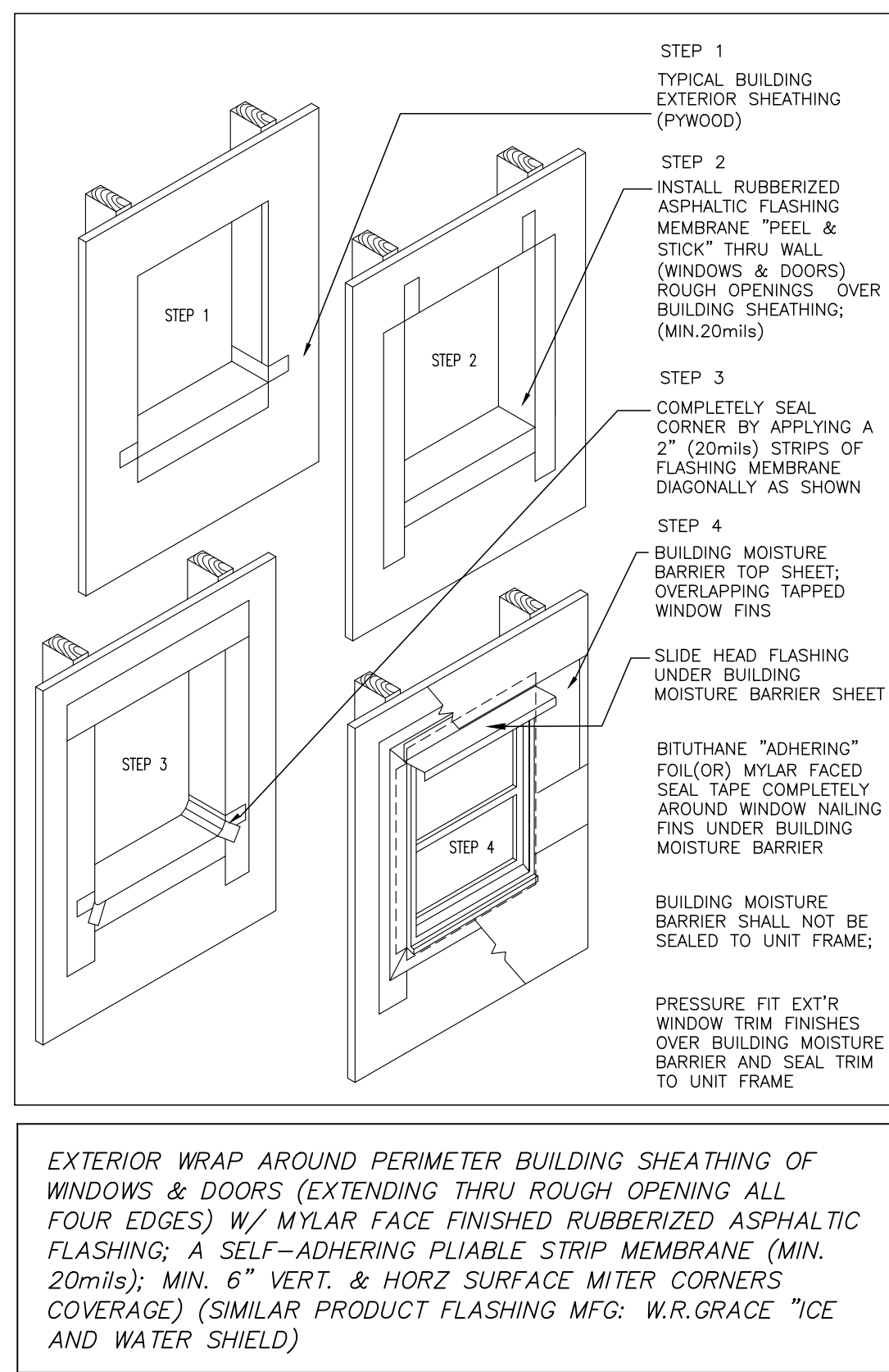
OPERABLE DOOR HARDWARE SHALL BE MOUNTED BETWEEN 30"(MIN.) AND 42"(MAX.) ABOVE FLOOR OR GROUND LEVEL AND "ALL" SHALL LEVER STYLE WITH TURN-BACK END RETURN, DESIGNATED FOR ARCHITECTURAL BARRIER FREE ACCESSIBLE. CONTRACTOR SHALL COORDINATE LATCH/LOCKSETS KEYING SCHEDULE WITH BUILDING OWNER BY PROVIDING MASTER AND GRAND MASTER KEYING SYSTEM
 DOOR HARDWARE MATERIAL FINISH TYPES SHALL BE STAIN NICKEL PLATED (US26D) OR STAIN STAINLESS STEEL (US32D) AND INSTALLED BY CONTRACTOR. IF NOT DIRECTLY SPECIFIED BY OWNER, CONTRACTOR SHALL PROVIDE. ALL EXTERIOR HARDWARE AND MOVING PARTS SHALL HAVE SALT AIR RESISTANCE (STAINLESS STEEL OR BRASS) MECHANISMS SHALL BE HEAVY DUTY GRADE.
 GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DOOR ASSEMBLY AND HARDWARE IDENTIFICATIONS AND QUANTITIES AS SHOWN ON PLANS. PRIOR TO ORDERING ANY HARDWARE, CONTRACTOR TO SUPPLY OWNER AND DESIGNER WITH SPECS AND CUT SHEETS FOR APPROVAL AND TO COORDINATE WITH DOOR HARDWARE SPECIALIST AN ASSIGNED MASTER KEYING SYSTEM.

GENERAL FRAME & GLAZING NOTES

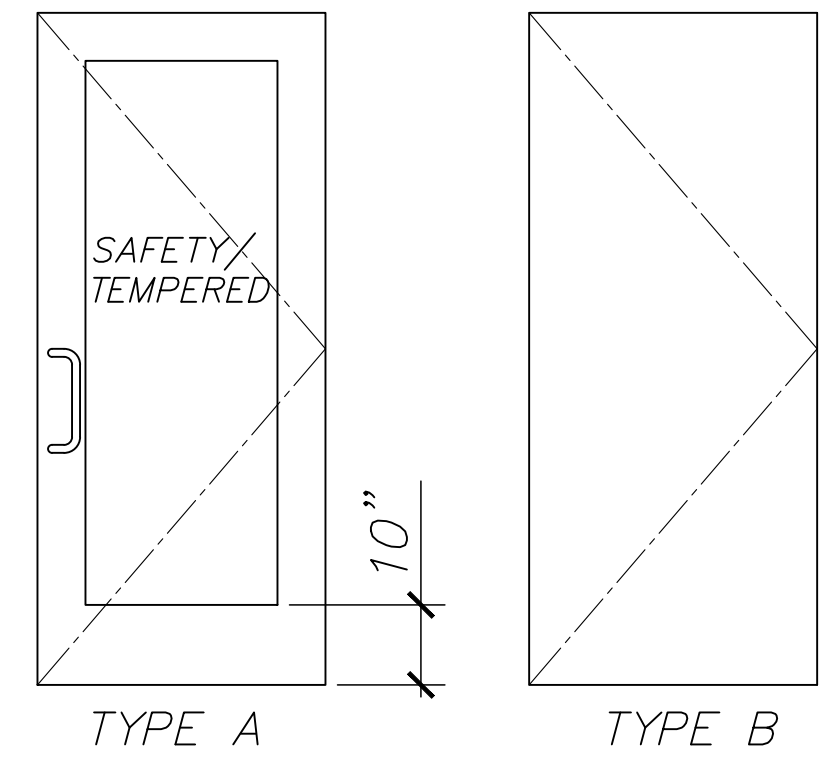
EXTERIOR METAL STOREFRONT WINDOW / DOOR AND FRAME SYSTEM ASSEMBLIES, U.N.O.
 (TYP) NOM. 4.5" WIDE ALUM. EXTRUDED FIXED "THERMALLY BROKEN" EXTERIOR STOREFRONT WINDOW FRAME SYSTEMS W/ 1" INSULATED GLAZING (FRAME COLOR: "KYNAR" (CONFIRM WITH OWNER) (70% KYNAR PREMIUM PERFORMANCE COATING) FINISHED FRAMES (AAMA 2605; CLASS 1 611-CURRENT EDITION); GLAZING: PPG/SOLARBAN 60 CLEAR+CLEAR; TINTED, LOW-E GLASS; SHGC MIN. 0.38);
 WINDOW/DOOR SYSTEM (FRAM'G-GLAZ'G) SHALL BE DESIGN PRESSURE (DP) WIND RATED FOR ITS GEOGRAPHICAL LOCATION; WINDOW INSTALLER SHALL BE RESPONSIBLE FOR ADEQUATELY USING APPROPRIATE FASTENER TYPES, SPACING AND VERTICAL FRAME STEEL STRUTS TO RESIST WIND SPEED (130 MPH) DP RATING. BASIS OF DESIGN:
 SAFETY (S) - DESIGNATES IMPACT GLAZING.
 ALL SAFETY GLAZING PRODUCTS SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS UNDER CPSC 16 CFR PART 1201 CATEGORY II FOR TEMPERED/SAFETY-IMPACT GLAZING WHEN SUCH PRODUCTS ARE INSTALLED IN CONDITIONS CONSIDERED HAZARDOUS FOR HUMAN IMPACT AND AS REQUIRED UNDER CHAPTER 24 AND RELATED SECTIONS OF THE INTERNATIONAL BUILDING CODE: ICC/IBC-2012; CHAPTER 24; SECTION 2406
 WINDOW/DOOR SUPPLIER SHALL PROVIDE ROUGH-OPENING SIZES, BEFORE FRAMING CONSTRUCTION BEGINS!
 WINDOW INSTALLER SHALL BE RESPONSIBLE FOR ADEQUATELY USING APPROPRIATE MOULDING TRIM STOPS, FASTENER TYPES AND SPACING AND FOR LATERAL STABILITY. PROPRIETARY COMMERCIAL WINDOW MFR SPECIFIED: KAWNEER
 (X) SYMBOL INDICATES WINDOW/FRAMING STYLE AND SIZE; REFERENCE FLOOR PLAN A101 FOR WINDOW/FRAMING TYPE SYMBOL LOCATIONS; NOMINAL WINDOW SIZES SHOWN; VERIFY ROUGH OPENING SIZE.



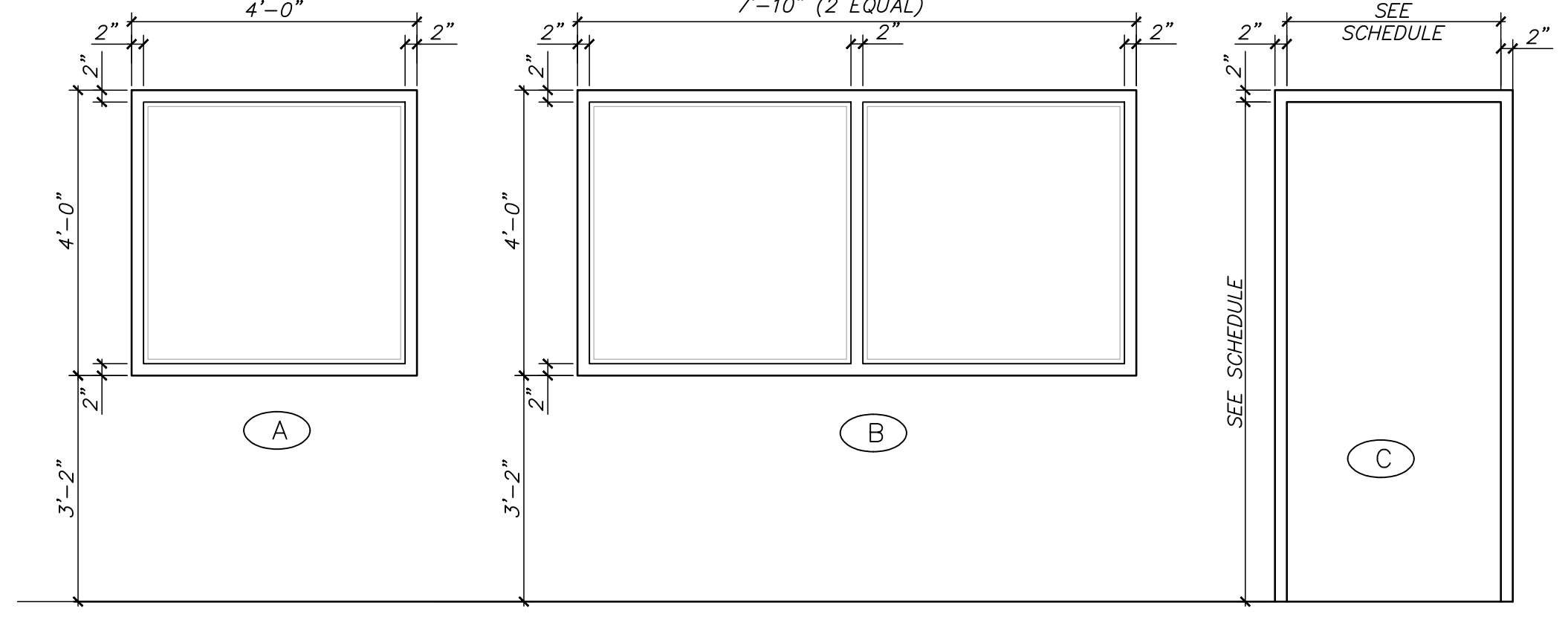
C EXTERIOR TRIM DETAIL N.T.S. A500



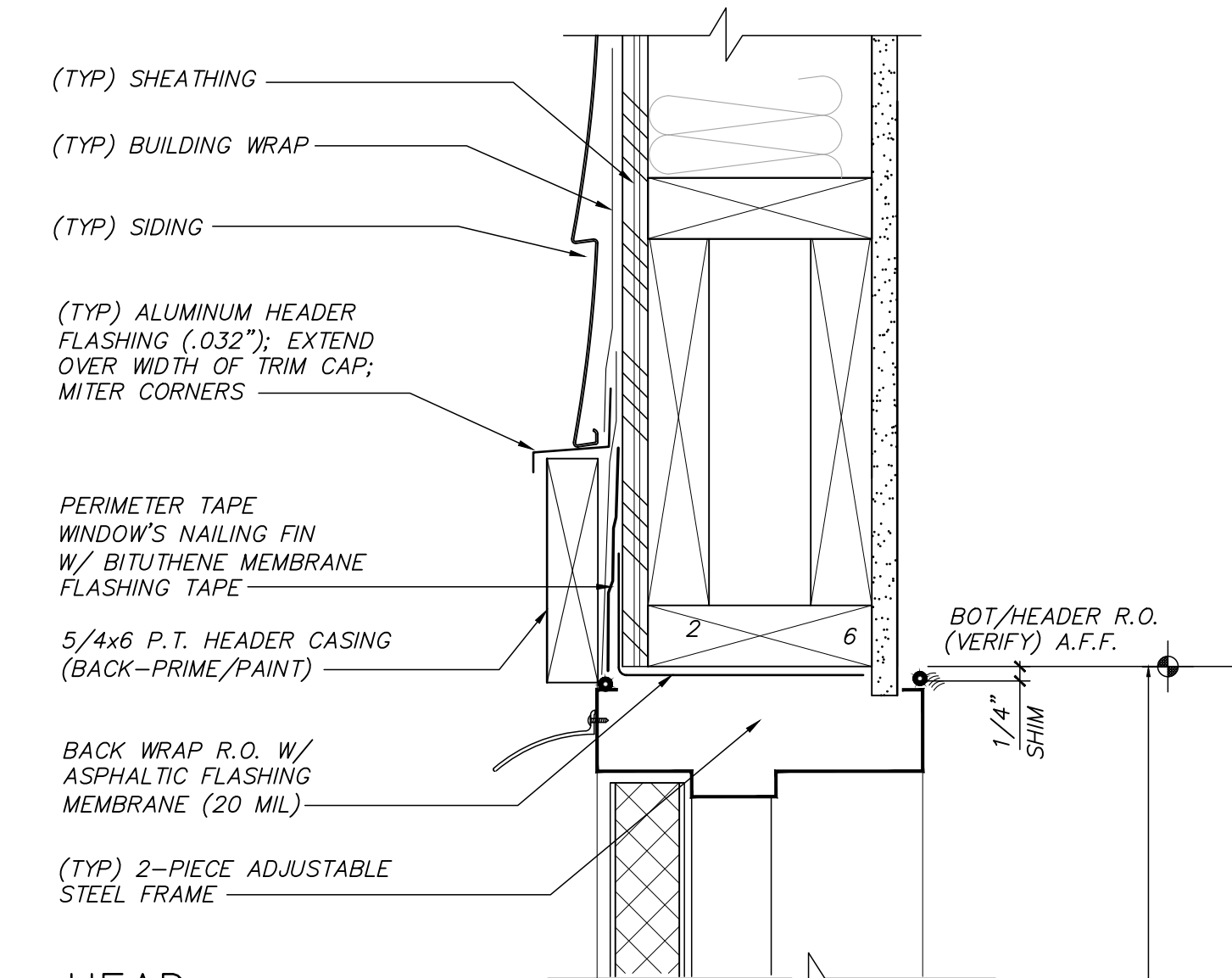
D SCHEMATIC FLASHING DETAIL N.T.S. A500



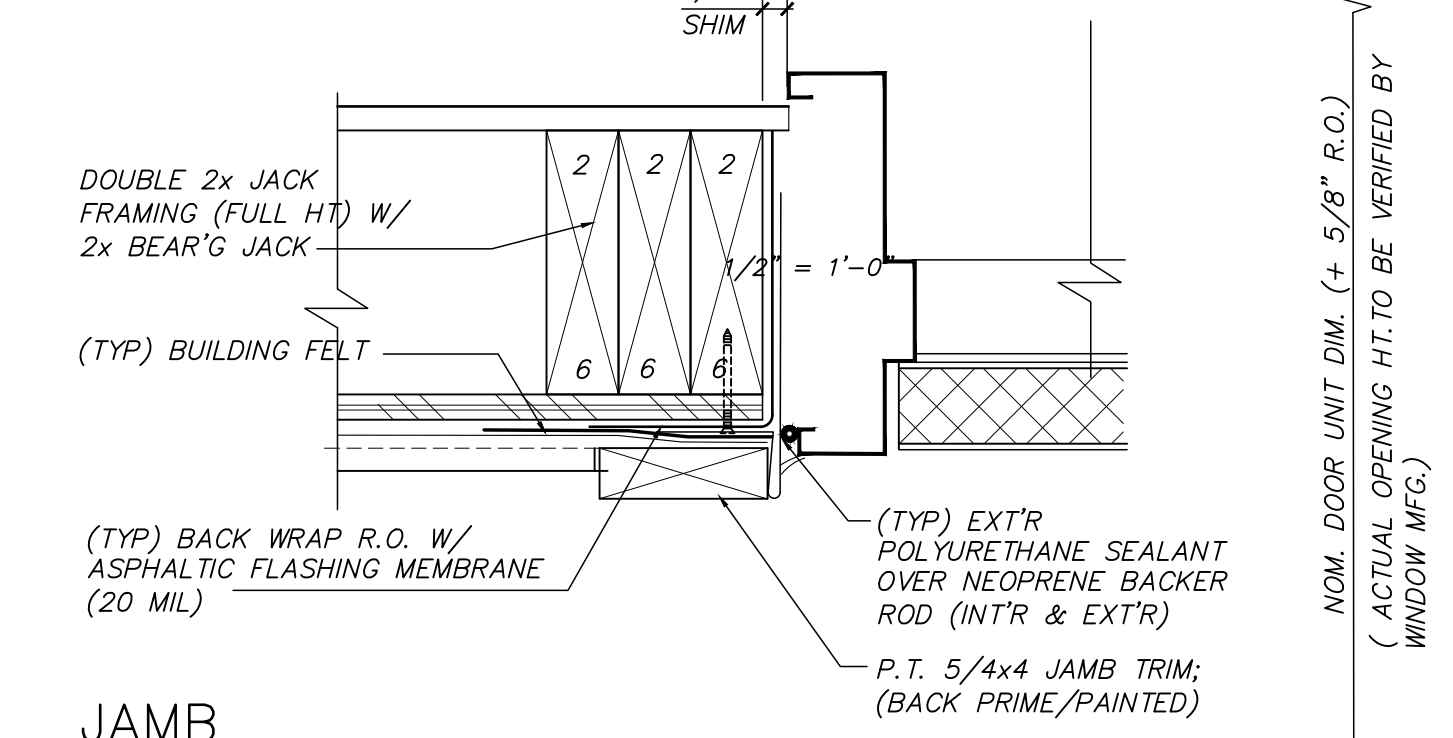
A SCHEMATIC DOOR ELEVATIONS 1/2" = 1'-0" A500



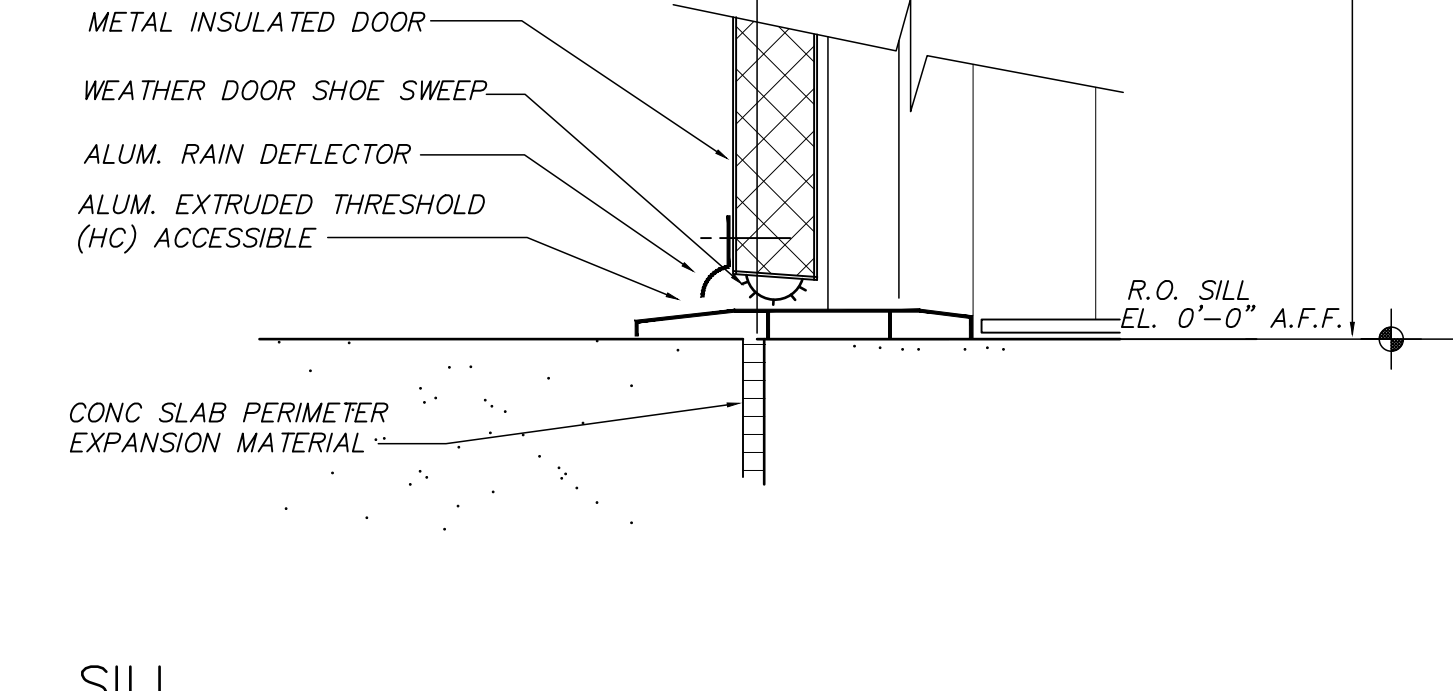
B SCHEMATIC FRAME ELEVATIONS 1/2" = 1'-0" A500



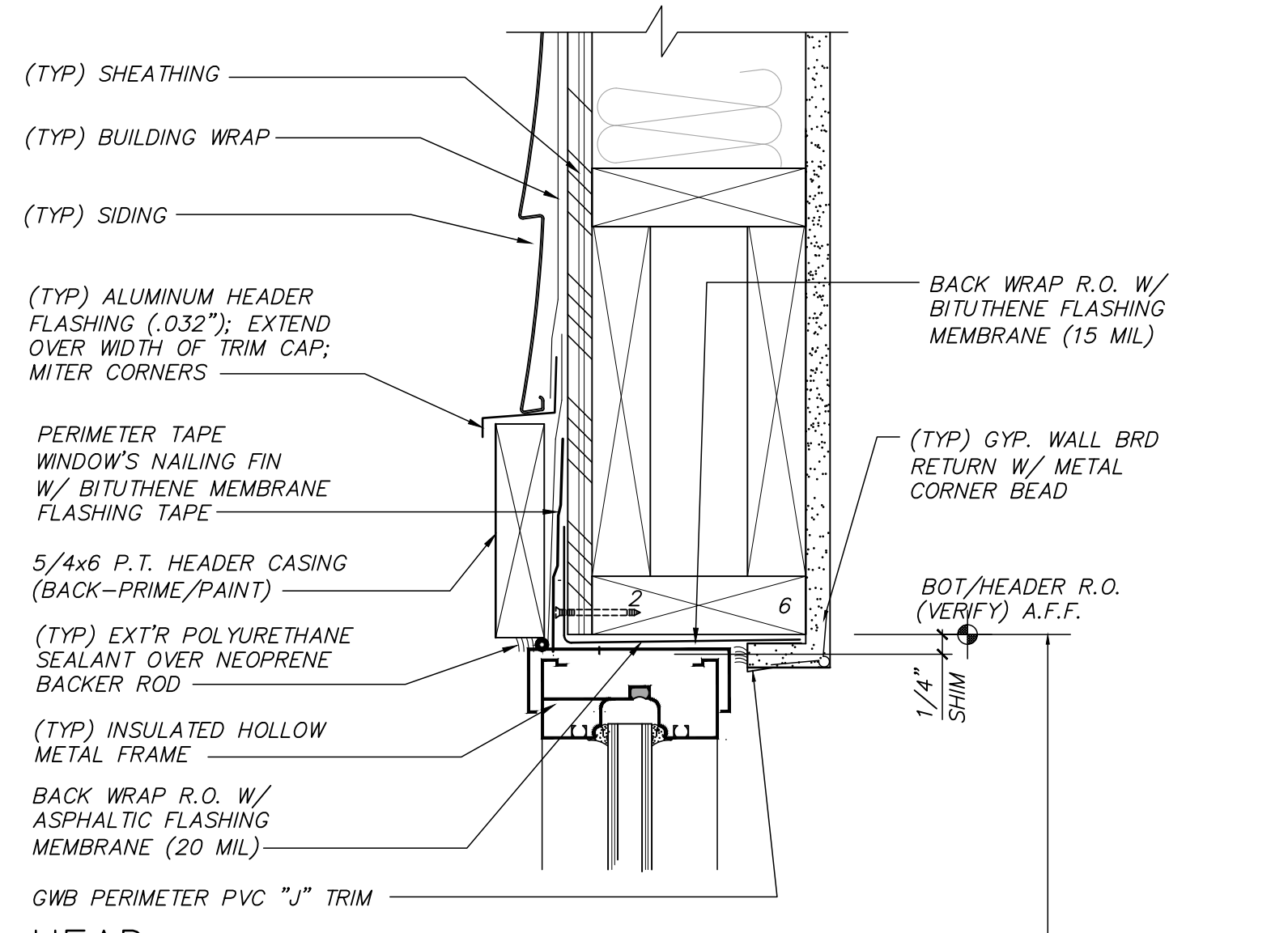
HEAD NOM. DOOR UNIT DIM. (+ 1/2" R.O.) (ACTUAL OPENING WIDTH TO BE VERIFIED BY G.C.) 1/4" SHIM



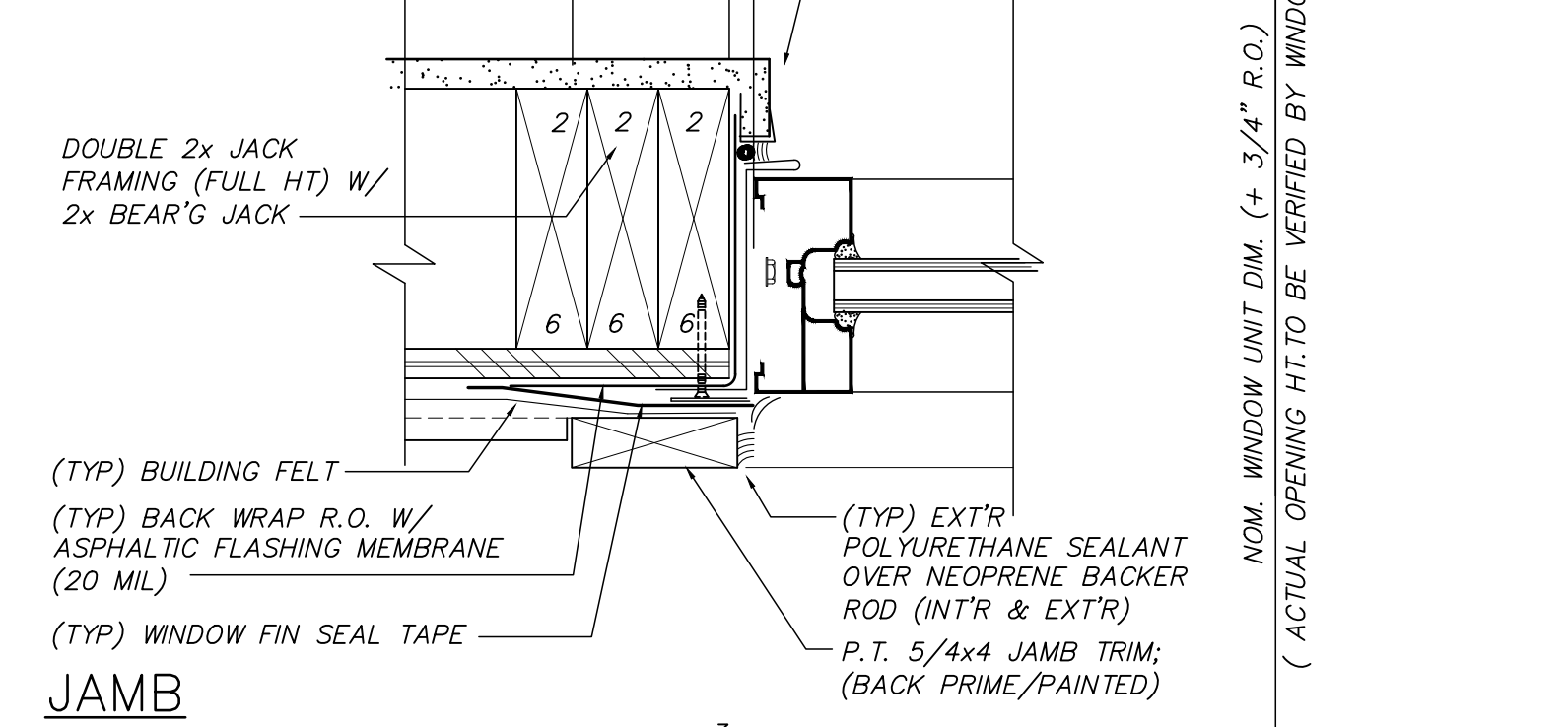
JAMB NOM. DOOR UNIT DIM. (+ 5/8" R.O.) (ACTUAL OPENING HT. TO BE VERIFIED BY WINDOW MFG.) 1/4" SHIM



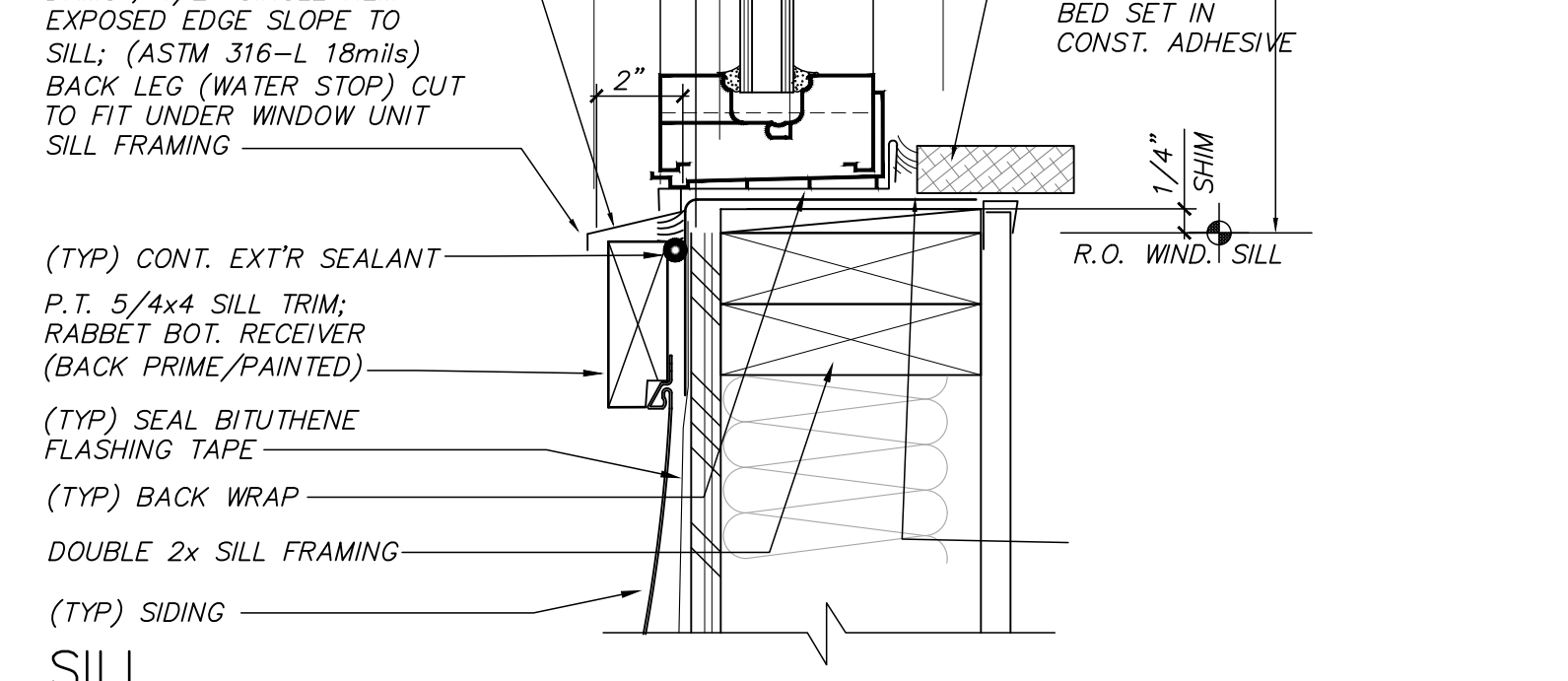
SILL (TYP) EXTERIOR ENTRANCE DOOR DETAIL 3" = 1'-0" 1 A500



HEAD NOM. WINDOW UNIT DIM. (+ 1/2" R.O.) (ACTUAL OPENING WIDTH TO BE VERIFIED BY WINDOW MFG.) 1/4" SHIM



JAMB NOM. WINDOW UNIT DIM. (+ 3/4" R.O.) (ACTUAL OPENING HT. TO BE VERIFIED BY WINDOW MFG.) 1/4" SHIM



(TYP) WINDOW DETAIL 3" = 1'-0" 2 A500

no. 0
 date 12/06/21
 revision ISSUE FOR CODE ENFORCEMENT REVIEW & APPROVAL

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 Architect / President
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 Wilmington, North Carolina 28405
 910.392.9331

Proposed Dispatch Office Building for Crete Solutions, LLC
 WINDOW AND DOOR SCHEDULES & DETAILS
 Contract Documents - Issued for Construction

date 12/01/21
 job no. CRETE/LIL
 drawn by MSAIEED
 checked by MSAIEED
 drawing no. A500
 revision no. 0

PLUMBING FIXTURE SCHEDULE

P-#	FIXTURES	SPECIFICATIONS	PIPING REQUIRED		
			WASTE	CW	HW
P-1	WATER CLOSET/ADA FLOOR MOUNTED TANK TYPE - 1.6 GPF	AMERICAN STANDARD "CADET RIGHT HEIGHT" MODEL 2298.012 VITREOUS CHINA TOILET WITH ELONGATED BOWL AND TANK WITH SIDE TRIP LEVER, 16 1/2" RIM HEIGHT, 1.6 GPF, 12" ROUGH-IN, BOLT CAPS, COMPLIES WITH ANSI A112.19.2 & A117.1 SEAT: BELUIS/CHURCH DURAGUARD 2100 NSSC ANTI-MICROBIAL HEAVY DUTY WHITE ELONGATED OPEN FRONT SEAT WITH COVER. VALVE: McGUIRE NO. 2166 3/8"x12" FLEX CLOSET SUPPLY WITH STOP.	3"	1/2"	--
P-2	URINAL - HANDICAP 3/4" TOP SPUD - 1.0 GPF MANUAL FLUSH VALVE	AMERICAN STANDARD "ALLBROOK" MODEL 6541.132 1.0 GPF 3/4" TOP SPUD, WHITE VITREOUS CHINA, 2" IPS OUTLET, WALL HANGER. MOUNT RIM 17" AFF TO COMPLY WITH ADA. VALVE: SLOAN REGAL MODEL 1-186-1-ADA, 1GPF, CHROME FLUSH WITH ADA COMPLIANT HANDLE.	2"	1/2"	--
P-3	LAVATORY - WALL MTD. SINGLE LEVER FAUCET ADA	AMERICAN STANDARD "LUCERNE" 0355.012 WALL MTD. WHITE VITREOUS CHINA 20"x18" LAVATORY WITH 4" FAUCET CENTERS. FAUCET: AMERICAN STANDARD "RELIANT +" MODEL NO. 7385 SINGLE LEVER LAVATORY FAUCET WITH CERAMIC DISC CARTRIDGE, INDEXED METAL LEVER, VANDAL RESISTANT 0.5 GPM AERATOR, 3/8" O.D. COPPER INLETS, ADJUSTABLE HOT LIMIT SAFETY STOP. SUPPLIES: McGUIRE NO. 165 3/8"x12" FLEX ANGLE SUPPLY WITH STOP STRAINER; McGUIRE NO. 155-A GRID STRAINER WITH 1 1/2" TAILPIECE. TRAP AND SUPPLY INSULATION: McGUIRE PREWRAPPED PROWRAP INSULATION KIT MODEL NO.2150	1-1/2"	1/2"	1/2"
P-4	LAVATORY - CABINET MTD. SINGLE LEVER FAUCET ADA	AMERICAN STANDARD "AQUALYN" 0476.028 CABINET MTD. WHITE VITREOUS CHINA 20"x17" SELF RIMMING LAVATORY WITH 4" FAUCET CENTERS. FAUCET: AMERICAN STANDARD "RELIANT +" MODEL NO. 7385 SINGLE LEVER LAVATORY FAUCET WITH CERAMIC DISC CARTRIDGE, INDEXED METAL LEVER, VANDAL RESISTANT 0.5 GPM AERATOR, 3/8" O.D. COPPER INLETS, ADJUSTABLE HOT LIMIT SAFETY STOP. TRAP AND SUPPLIES: McGUIRE NO. 155WC OFFSET WHEELCHAIR LAVATORY GRID STRAINER WITH 1 1/2" OUTLET. McGUIRE NO. 8902 17 GA 1 1/2"x1 1/2" P-TRAP & NIPPLE. McGUIRE NO 2165 1/2" IPS X 3/8" FLEX ANGLE SUPPLY WITH STOP.	1-1/2"	1/2"	1/2"
P-5	SINGLE BOWL SINK ADA	JUST MODEL NO. SL-1613-A-GR SINGLE COMPARTMENT SINK. 16"x13", 304 STAINLESS STEEL, 18 GAUGE, 3 1/2" FAUCET LEDGE WITH 4 HOLES @ 4" CENTERS. TRAP AND SUPPLIES: McGUIRE NO 151 CHROME PLATED FORGED BRASS STRAINER WITH 1-1/2" TAILPIECE, McGUIRE NO. 8912 1 1/2" P-TRAP AND NIPPLE. McGUIRE NO. 2165 ANGLE SUPPLIES WITH STOPS. FAUCET: JUST MODEL J1174KS TWO-HANDLE KITCHEN FAUCET. CHROME PLATED BRASS CONSTRUCTION, 6" WRIST BLADE HANDLES, COMPLIES WITH LATEST ADA REQUIREMENTS.	1-1/2"	1/2"	1/2"
P-6	ICE/COFFEE MAKER CONNECTION	PROVIDE RECESSED WALL BOX WITH SHUT-OFF VALVE, ROUTE 3/8" SOFT "K" COPPER TO MACHINE CONNECTION.	--	1/2"	--

GENERAL PLUMBING SPECIFICATIONS

GENERAL: THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING PLUMBING CODE. SUBMIT THREE (3) COPIES OF PLUMBING INSPECTION CERTIFICATES TO OWNER. PLUMBING CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS REQUIRED BY GOVERNING AUTHORITIES FOR WORK DONE UNDER THIS CONTRACT. PROVIDE AND INSTALL ALL SUPPORTS, BRACKETS, MATERIALS AND LABOR AS REQUIRED FOR A COMPLETE AND ACCEPTABLE PLUMBING SYSTEM. PLUMBING CONTRACTOR SHALL CLEAN ALL PLUMBING FIXTURES AFTER ALL CONSTRUCTION IS COMPLETE.

SOIL, WASTE AND VENT PIPING: WASTE PIPING AND VENT PIPING SHALL BE P.V.C. - D.W.C. SCHEDULE 40 PIPE. HOWEVER, COEXTRUDED PVC "FOAM CORE", ASTM F891, WILL NOT BE ALLOWED.

ALL PENETRATIONS THROUGH NON-COMBUSTIBLE CONSTRUCTION SHALL BE PACKED WITH NON-COMBUSTIBLE FIRE STOPPING MATERIAL.

GRADE WASTE AND VENT PIPING 1/4 INCH PER FOOT WHERE POSSIBLE BUT NOT LESS THAN 1/8 INCH PER FOOT, UNLESS SPECIFICALLY DIRECTED. MAINTAIN INVERTS WHERE INDICATED.

WATER HEATER. ALL FITTINGS SHALL BE SWEAT TYPE WROUGHT COPPER WITH WALL THICKNESS EQUAL TO PIPE WALL THICKNESS. ALL JOINTS SHALL BE MADE WITH 95-5 SOLDER OR SILVABRITE 100. NO SOLDER W/LEAD SHALL BE PERMITTED.

ALL ROUGHING-IN PIPING SHALL BE RUN CONCEALED. ALL EXPOSED WATER LINES, STOPS, TRAP AND WASTE PIPE AT THE FIXTURES SHALL BE CHROME PLATED BRASS, WHICH FOR THE MOST PART WILL BE FURNISHED WITH THE FIXTURES. CHROME PLATED ESCUTCHEON RINGS SHALL BE USED AT EACH POINT OF ENTRANCE OF CHROME PIPING INTO WALLS, FLOORS, OR CEILINGS. EXPOSED WORK SHALL BE UNIFORM IN HEIGHT AND LOCATION FOR EACH TYPE FIXTURE.

WATER PIPING UNDER GROUND OUTSIDE OF BUILDING SHALL BE AT LEAST 24 INCHES BELOW THE FINISHED GRADE SURFACE.

THERMAL INSULATION: ALL HOT AND COLD WATER PIPING INSIDE BUILDING AND IN CRAWL SPACE, ALL HOT WATER PIPING BELOW GRADE, AND COLD WATER PIPING BELOW GRADE WITHIN 3'-0" OF OUTSIDE SHALL BE INSULATED WITH 1" THICK "ARMAFLEX" OR IMCOA WITH SEALED JOINTS OR PREMOLDED FIBERGLASS WITH VAPOR BARRIER JACKET. IN LIEU OF INSULATING WATER PIPING IN HEATED WALLS PIPING MAY BE ENCASED IN BATT INSULATION WITHIN THE WALL OR FLOOR/CEILING.

WATER HEATERS: WATER HEATERS SHALL BE UL LISTED AND COMPLETE WITH ALL STANDARD FEATURES, FIVE (5) YEAR TANK WARRANTY, GLASS-LINED TANK, FOAM INSULATION ON THE TANK, ANODE ROD, AUTOMATIC TEMPERATURE CONTROL, AND AUTOMATIC HIGH-LIMIT SAFETY CUTOFF.

EACH WATER HEATER SHALL BE PROVIDED WITH AN ASME APPROVED PRESSURE AND TEMPERATURE RELIEF VALVE. UNITS NOT INSTALLED WITH VACUUM BREAKER ON COLD WATER SUPPLY LINE SHALL BE PROVIDED WITH AGA CERTIFIED VACUUM RELIEF VALVE PER ANSI Z21.22. A GATE VALVE SHALL BE INSTALLED ON SAME FLOOR AS UNIT AND NO FURTHER THAN 3 FEET ON THE COLD WATER SUPPLY.

EACH WATER HEATER AND ITS INSTALLATION SHALL COMPLY WITH THE LATEST ISSUE AND ALL ADDENDA THERETO OF THE STATE BOILER INSPECTION LAWS AND REGULATIONS. ALL WIRING AND CONTROLS ASSOCIATED WITH THE HEATERS SHALL BE U.L. APPROVED AND IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.

EACH HEATER TANK SHALL BE FITTED WITH APPROVED "DIP" TUBE AND LABELED TO SHOW APPROVAL FOR INSTALLATION.

DISCHARGE RELIEF VALVE FROM EACH WATER HEATER SHALL BE PIPED FULL SIZE TO WITHIN SIX (6) INCHES OF THE FLOOR OVER A FLOOR DRAIN, DRIP PAN OR OTHER SAFE LOCATION. DISCHARGE PIPE SHALL BE SUPPORTED AND ANCHORED SO THAT IT WILL NOT PUT UNDUE STRAIN ON THE RELIEF VALVE BODY OR MOUNTING COUPLING.

SUBMITTAL: THE CONTRACTOR SHALL WITHIN (15) DAYS OF RECEIPT OF PROPERLY SIGNED CONTRACT SUBMIT TO THE ARCHITECT/ENGINEER FOR APPROVAL (5) COPIES OF A LIST OF SUPPLIES AND MANUFACTURER'S MATERIAL AND EQUIPMENT TO BE USED ON THIS PROJECT.

SUBSTITUTION OF MATERIALS AND/OR EQUIPMENT FOR THAT SPECIFIED WILL NOT BE ACCEPTED WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT/ENGINEER PRIOR TO RECEIPT OF BIDS.

GUARANTEE: THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER STATING THE DAY THE GUARANTEE BEGINS AND ENDS.

WATER HEATER (EWH): STATE M/N PCE 20 10MSA, 20 GALLON ELECTRIC WATER HEATER WITH ONE (1) 1500 WATT ELEMENT, 120 VOLT, SINGLE PHASE, WITH 3 YEAR WARRANTY. FURNISH WITH A.S.M.E. APPROVED RELIEF VALVE, WATERGUARD EXPANSION TANK M/N ETC-2X, AND DRAIN PAN. CONNECTION SIZES: C=1 1/4", H=1 1/4"

NOTE: PLANS SHOULD NOT BE SCALED FOR DIMENSIONS. COORDINATE ALL ROUGH IN DIMENSIONS WITH EQUIPMENT TO BE INSTALLED AND DIMENSIONED DRAWINGS INCLUDING KITCHEN EQUIPMENT PLANS IF AVAILABLE. CONTACT ENGINEER BEFORE CONSTRUCTION WITH ANY CONFLICTS.

PLUMBING GENERAL NOTES:

1. PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR COMPLETE AND PROPERLY FUNCTIONING PLUMBING SYSTEMS. WARRANTY ALL WORK AND ALL MATERIALS, EQUIPMENT AND DEVICES FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE.

2. WORK SHALL CONFORM TO OR MEET THE REQUIREMENTS OF THE MOST CURRENT EDITION OF:
A. NORTH CAROLINA PLUMBING CODE

- B. ASPE
- C. UL
- D. ANSI
- E. ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES

3. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO BE SCALED FOR DIMENSIONS, UNLESS DIMENSIONED.

4. ALL MATERIALS, EQUIPMENT AND DEVICES SHALL, AS A MINIMUM, MEET THE REQUIREMENTS OF UL WHERE UL STANDARDS ARE ESTABLISHED FOR THOSE ITEMS. ALL ITEMS SHALL BE CLASSIFIED BY UL AS SUITABLE FOR THE PURPOSE USED.

5. ALL ITEMS SHALL BE NEW, UNLESS NOTED OTHERWISE.

6. ALL MATERIALS AND EQUIPMENT SHALL BE CURRENT PRODUCTS BY MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH PRODUCTS.

7. COORDINATE LOCATION OF PLUMBING WORK WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES.

8. INSTALL ALL EQUIPMENT AND MATERIAL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN PRINTED INSTRUCTIONS AND RECOMMENDATIONS.

9. COORDINATE WITH AND OBTAIN PERMITS AND INSPECTIONS FROM AUTHORITY HAVING JURISDICTION AND INCLUDE ALL FEES IN BID.

10. PROVIDE OWNER WITH CERTIFICATES OF FINAL INSPECTION AND ACCEPTANCE FROM AUTHORITY HAVING JURISDICTION.

11. ALL EQUIPMENT AND PIPE ABOVE CEILING SHALL BE SUPPORTED FROM BUILDING STRUCTURE ABOVE, UNO.

12. WHERE PIPES PENETRATE FIRE RATED BARRIERS (WALLS, FLOORS AND CEILINGS) SEAL OPENING AROUND PIPES AND DUCTWORK WITH U.L. LISTED FIRE STOPPING MATERIAL TO MAINTAIN THE FIRE RATING OF THE BARRIER. PER NC BUILDING CODE VOLUME 1, PENETRATIONS OF NONRATED WALLS, PARTITIONS AND FLOORS OF NONCOMBUSTIBLE CONSTRUCTION SHALL BE FIRE-STOPPED WITH NONCOMBUSTIBLE MATERIAL.

13. PROVIDE EXPANSION-DEFLECTION JOINTS WHERE PIPE CROSSES BUILDING EXPANSION OR SEISMIC JOINTS.

14. PRIOR TO BIDDING, THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL VISIT THE JOBSITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND SHALL INCLUDE IN HIS BID ALL LABOR, MATERIAL AND OPERATIONS REQUIRED FOR A COMPLETE JOB. (NOTIFY OWNER AND ENGINEER OF ANY DISCREPANCIES PRIOR TO BID.)

15. CLEANOUTS, LINE SIZE, UNO.

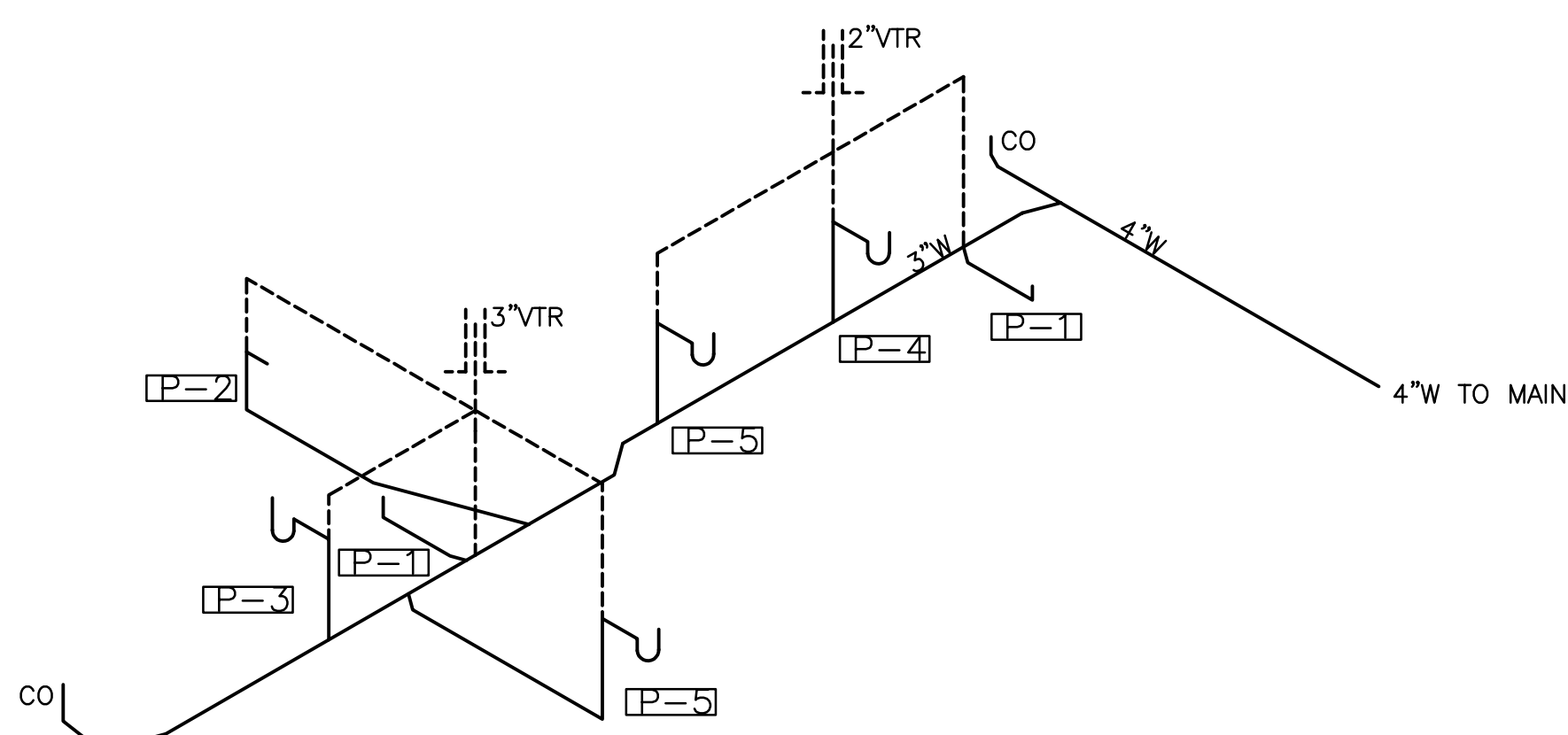
16. FLOOR DRAINS, LINE SIZE, UNO.

17. FLOOR DRAINS WITH SUBSCRIPT CO TO HAVE INTEGRAL CLEANOUT AND SHALL BE SIMILAR TO REGULAR FLOOR DRAIN SPECIFIED, UNO.

18. FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH TRAP PRIMERS OR ALTERNATE METHODS AS APPROVED BY AUTHORITY HAVING JURISDICTION.

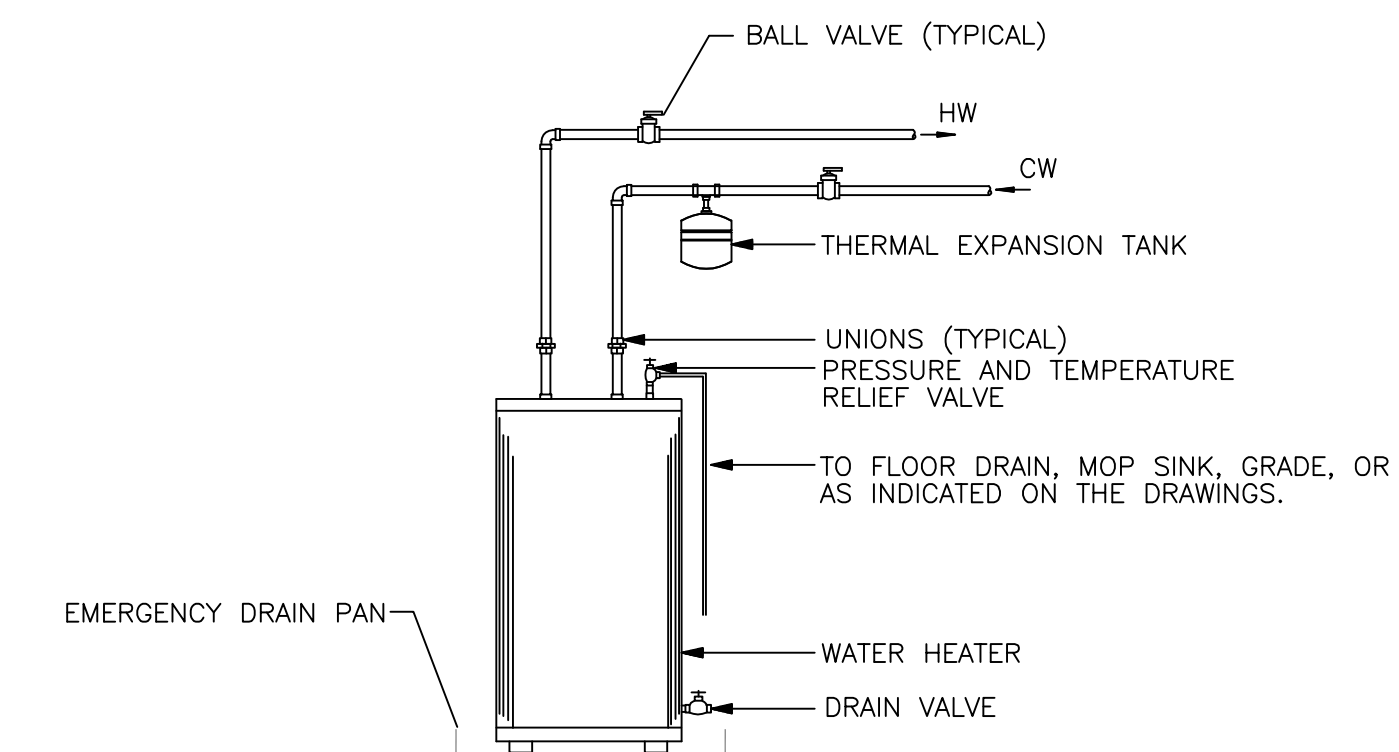
PLUMBING LEGEND

- FIXTURE NUMBER, SEE SCHEDULE
- VENT THRU ROOF
- NEW COLD WATER PIPE
- NEW HOT WATER PIPE
- NEW WASTE PIPE
- NEW VENT PIPE



WASTE RISER

SCALE: NONE



(A) ELECTRIC WATER HEATER

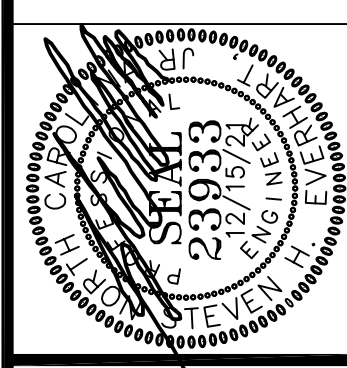
SCALE: NONE

no.	date	revision

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PROJECT NO. 14450

TOPSAIL
ENGINEERING, INC.
PLUMBING | MECHANICAL | ELECTRICAL



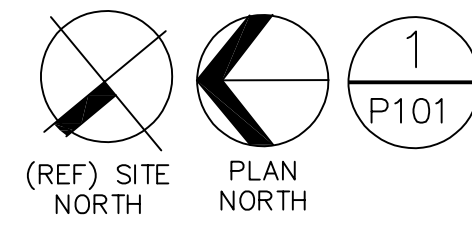
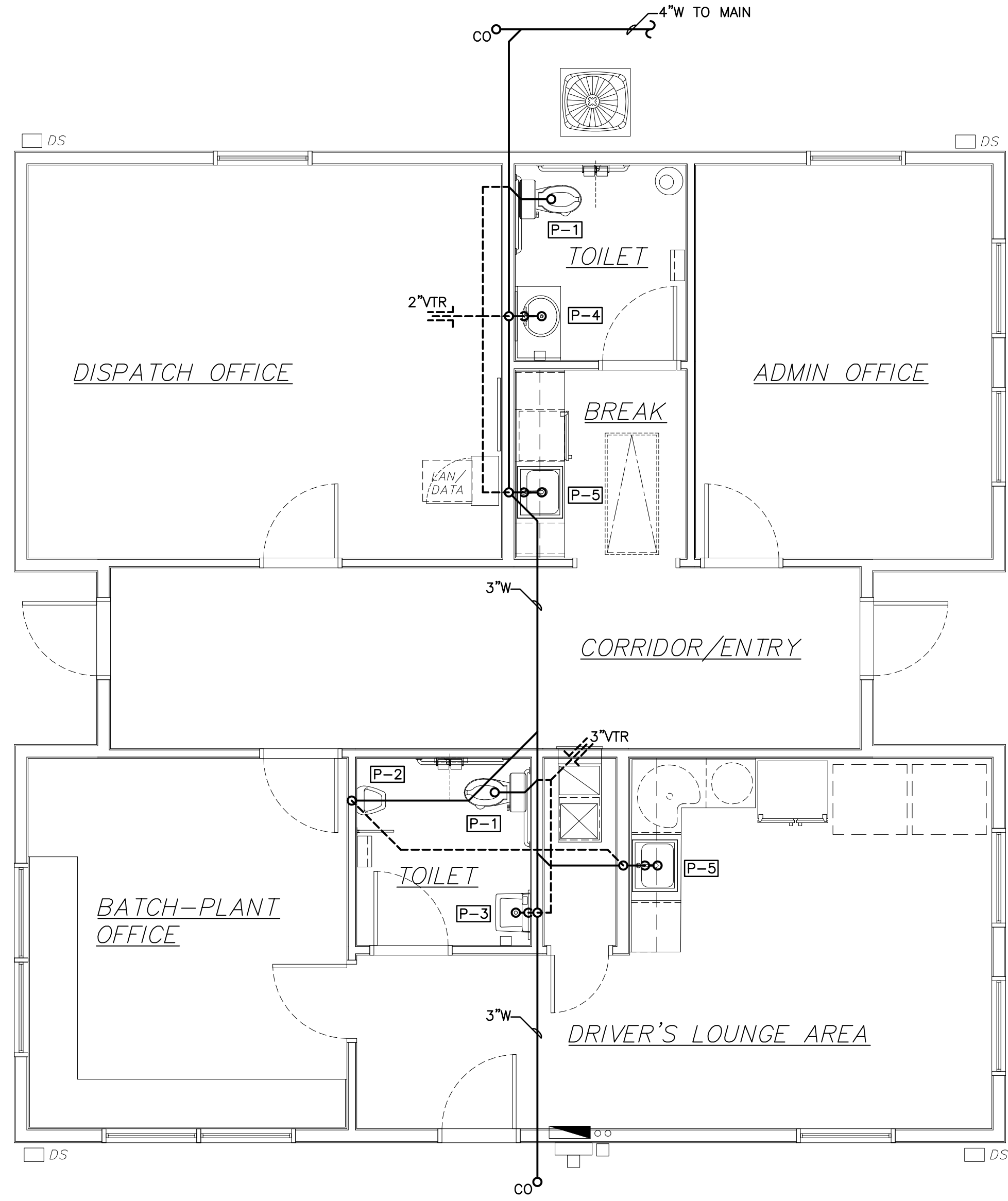
Design Elements
Michael L. Sneed, Jr., AIA, AIBD
1913 Calhoun Drive, Suite 142
Wilmington, North Carolina 28405
P.O. BOX 30131

Proposed Concrete Batch Plant Office for Crete Solutions, LLC
2544 US 401 N LILLINGTON, NORTH CAROLINA 27546

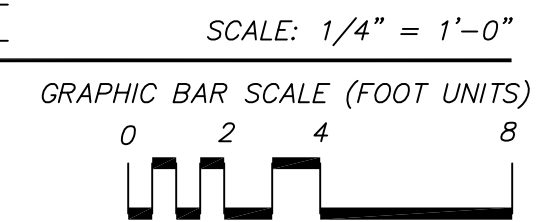
PLUMBING SCHEDULES, NOTES & DETAILS
Construction Document - Issued for Construction

date 15 DEC, 2021
job no. CRETE/BUS
drawn by KSG
checked by SE
drawing no. **P100**
revision no.

no.	date	revision



1 PROPOSED FLOOR PLAN — PLUMBING — WASTE

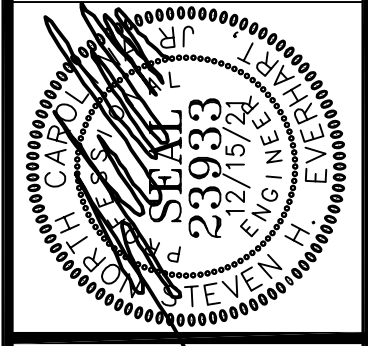


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Proposed Concrete Batch Plant Office for Crete Solutions, LLC
 2544 US 401 N
 LILLINGTON, NORTH CAROLINA 27546
FLOOR PLAN — PLUMBING — WASTE
 job status **Construction Document - Issued for Construction**

date	15 DEC, 2021
job no.	CRETE/BUS
drawn by	KSG
checked by	SE
drawing no.	P101

revision no.

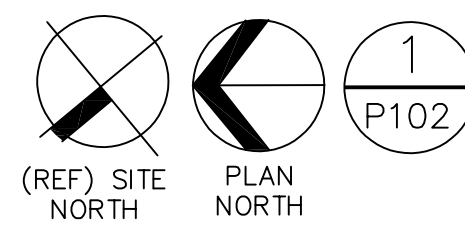


Design Elements
 Michael L. Saied, Jr., AIA, AIBD
 1213 Calhoun Drive, Suite 142
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PROJECT NO. 14450
TOPSAIL
 ENGINEERING, INC.
 PLUMBING | MECHANICAL | ELECTRICAL

THIS SHEET SHOWS BASIC DRAFTING STANDARDS

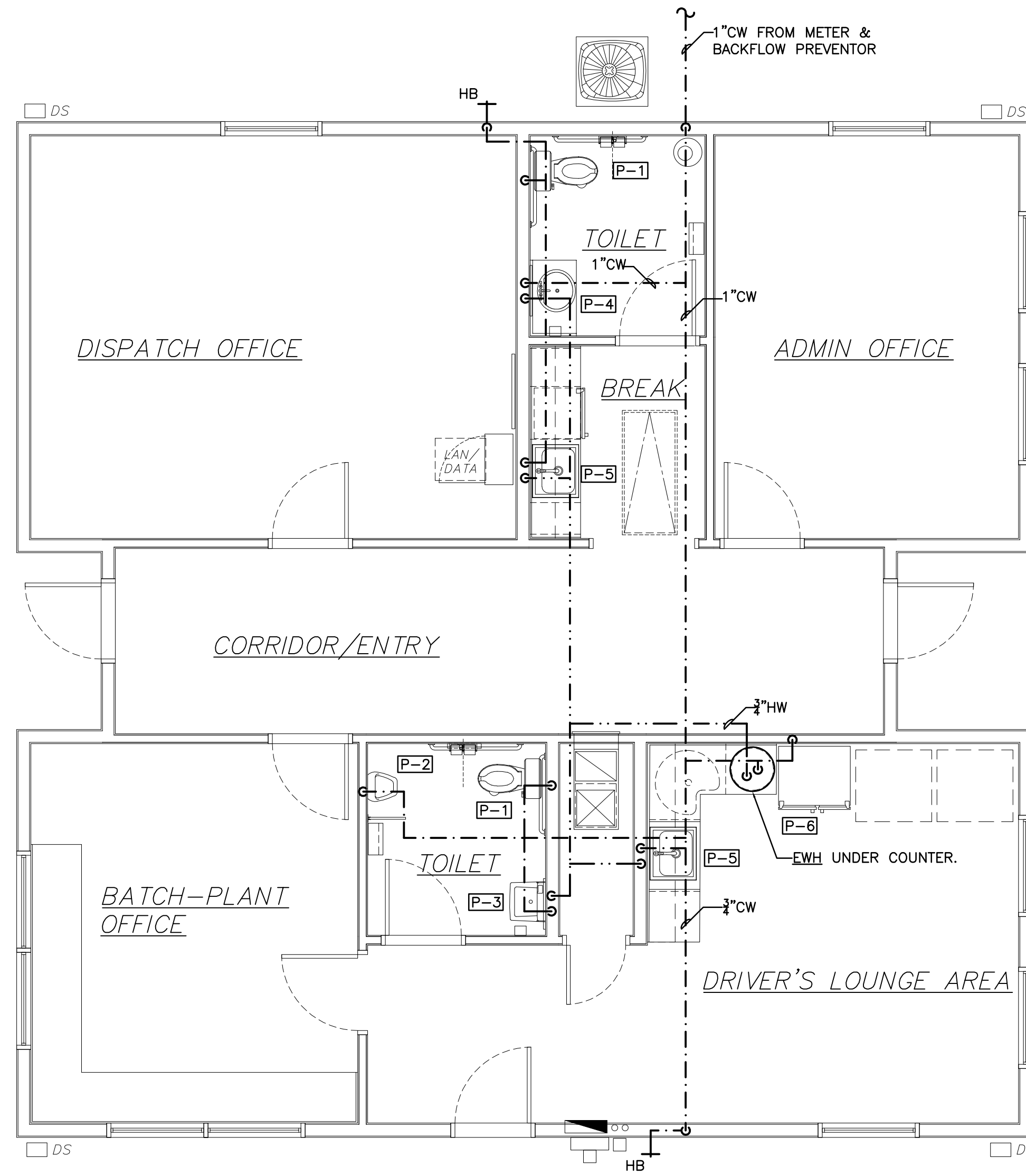
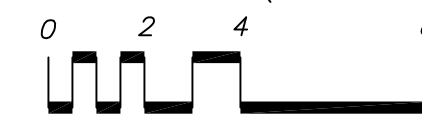
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P102

PROPOSED FLOOR PLAN — PLUMBING — WATER

SCALE: 1/4" = 1'-0"
GRAPHIC BAR SCALE (FOOT UNITS)



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Proposed Concrete Batch Plant Office for Crete Solutions, LLC

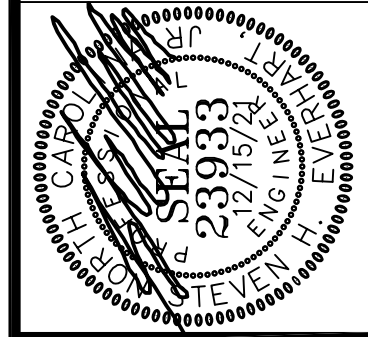
2544 US 401 N
LILLINGTON, NORTH CAROLINA 27546

FLOOR PLAN — PLUMBING — WATER

job status **Construction Document - Issued for Construction**

date 15 DEC, 2021
job no. CRETE/BUS
drawn by KSG
checked by SE
drawing no.

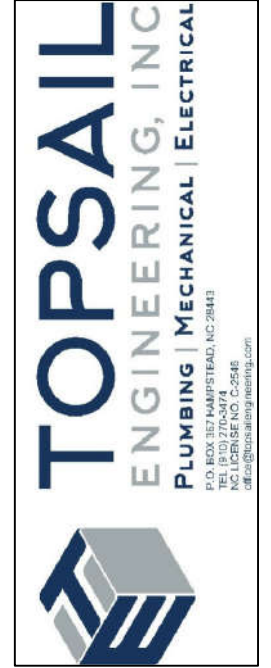
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PROJECT NO. 14450



SPLIT SYSTEM HEAT PUMP SCHEDULE		
UNIT NUMBER	AHU-1	
AREA SERVED		
MANUFACTURER	TRANE	
MODEL NUMBER	TEM6A0B30H21	
UNIT WEIGHT (LBS)	111	
FAN	TOTAL AIR CFM	800
	OUTSIDE AIR CFM	80
	FAN H.P.	1/3
	EXT. S.P. (IN. H2O)	0.4
	POWER SUPPLY	208/230/60/1
COOLING CAPACITY	TOTAL CAPACITY COOLING (BTUH)	29,000
	SENSIBLE CAPACITY COOLING (BTUH)	22,500
	ENTERING AIR TEMP.	80/67
HEATING CAPACITY	ENTERING AIR TEMP.	70 °F
	HIGH TEMPERATURE (BTUH) 47°F DB	27,800
	LOW TEMPERATURE (BTUH) 17°F DB	18,400
	AUXILIARY COIL CAPACITY	3.6/4.8 KW @ 208/240
	POWER SUPPLY	208/230/60/1
	MINIMUM AMPACITY	27/30
MAX. OVERCURRENT PROTECTION	30/30	
AIR COOLED HEAT PUMP	UNIT NUMBER	HP-1
	MODEL NUMBER	4TWR6030
	UNIT WEIGHT	196
	ENTERING AIR TEMP.	95°F
	FAN TYPE	PROPELLER
	FAN H.P.	1/8
	COMPRESSOR	RECIP
	POWER SUPPLY	208/230/60/1
	MINIMUM AMPACITY	17
MAX. OVERCURRENT PROTECTION	25	
ACCESSORIES	(1), (2), (3)	

- PROVIDE WALL MOUNTED, PROGRAMMABLE ELECTRONIC THERMOSTAT WITH AUTO CHANGEOVER.
- SYSTEMS SELECTED MEET REQUIREMENTS UNDER SECTION 506 OF THE NORTH CAROLINA STATE BUILDING CODE: ENERGY CONSERVATION CODE.
- PROVIDE STRIP HEAT SHUTOFF PER 503.2.4.1.1

AIR DISTRIBUTION DEVICE SCHEDULE					
TAG	SERVICE	NECK SIZE	OVERALL SIZE	MODEL NUMBER	DESCRIPTION & ACCESSORIES
A	SUPPLY	8"	24 X 24	ASCD	1, 2, 3, 7, 8
B	RETURN	14"	24 X 24	80	1, 2, 3, 5
(1) PRICE AIR DISTRIBUTION; OR APPROVED EQUAL. (2) ALUMINUM CONSTRUCTION, STANDARD WHITE FINISH. (3) T-BAR LAY-IN PANEL. (4) SURFACE MOUNT BORDER. (5) CFM SHOWN IN GRILLE TAG IS MAXIMUM POSSIBLE WITH EXHAUST AND OUTSIDE AIR AT 0. (6) DOUBLE DEFLECTION GRILLE. (7) SQUARE FACE, ROUND NECK DIFFUSER. (8) BUTTERFLY STYLE VOLUME CONTROL DAMPER.					
				NOTE: FLEXIBLE DUCTWORK SHALL MATCH DIFFUSER NECK SIZE UNLESS OTHERWISE NOTED.	

EXHAUST FAN SCHEDULE									
TAG	CFM	RPM	S.P. IN. W.G.	WATTS/HP	SONES	ELECTRIC	CONTROL	MANUFACTURER MODEL NUMBER	DESCRIPTION & ACCESSORIES
EF-1	75	700	.25	50 WATTS	3.0	120-1-60	WIRED WITH LIGHT	GREENHECK SP-890	1, 2, 3
(1) CABINET CEILING FAN, DIRECT DRIVE, CENTRIFUGAL, SPRING LOADED ALUMINUM BACKDRAFT DAMPER. (2) ALUMINUM, WHITE ENAMEL CEILING GRILLE. (3) ALUMINUM HOODED WALL CAP WITH BUILT-IN BIRDSCREEN AND DAMPER.									

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT	
METHOD OF COMPLIANCE	
Prescriptive <input type="radio"/> Energy Cost Budget <input checked="" type="radio"/>	
Thermal Zone	4A
Exterior design conditions	
winter dry bulb	26° F
summer dry bulb	92° F DB/76° F WB
Interior design conditions	
winter dry bulb	70° F
summer dry bulb	75° F
relative humidity	50%
Building heating load	15 MBTU/H
Building cooling load	1.7 TONS
Mechanical Spacing Conditioning System	
Unitary	
description of unit	
heating efficiency	80%
cooling efficiency	14.0 SEER AVG.
heat output of unit	SEE SCHEDULES
cooling output of unit	SEE SCHEDULES
boiler	
total boiler output. If oversized, state reason.	N/A
chiller	
total chiller capacity. If oversized, state reason.	N/A
List equipment efficiencies	N/A
Equipment schedules with motors (mechanical systems)	
motor horsepower	SEE SCHEDULES
number of phases	SEE SCHEDULES
minimum efficiency	SEE SCHEDULES
motor type	ODP
# of poles	4
Additional prescriptive compliance method	506.2.1 More Eff. Mech Equip.
DESIGNER STATEMENT:	
To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment of the 2018 North Carolina State Energy Code.	
SIGNED:	
NAME:	STEVEN H. EVERHART, JR., P.E.
TITLE:	PROFESSIONAL ENGINEER

GENERAL MECHANICAL SPECIFICATIONS

ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NC MECHANICAL CODE.

BASIS OF DESIGN: UNLESS OTHERWISE NOTED THE PURPOSE OF THESE DRAWINGS IS TO PROVIDE DIRECTION AND BASIS OF DESIGN TO A COMPETENT CONTRACTOR FAMILIAR WITH THE TYPE OF SYSTEMS BEING INSTALLED SUFFICIENT TO INDICATE OWNERS REQUESTS AND CODE REQUIREMENTS. IT IS THE CONTRACTORS RESPONSIBILITY, WHEN OTHERWISE UNDIRECTED, TO FOLLOW STANDARD INDUSTRY PRACTICES AND BASIC CODE COMPLIANCE INCLUDING, BUT NOT LIMITED TO, PROVIDING MATCHING REQUIRED ACCESSORIES TO THE SYSTEMS INDICATED, COORDINATING EXACT ROUTINGS AND LOCATIONS WITH OTHER TRADES AND THE OWNER, SELECTING CODE APPROVED MATERIALS, AND MAKING MINOR OFFSETS/ADJUSTMENTS BASED ON FIELD COORDINATION AND OWNER'S FIELD REQUESTS. CHANGE OF MANUFACTURER TO EQUIVALENT SYSTEMS, WITH OWNER'S APPROVAL, IS ACCEPTABLE. CONTACT ENGINEER WITH ANY CONFLICTS NOT COVERED BY THE ABOVE INSTRUCTIONS.

SHEET METAL WORK: THIS CONTRACTOR SHALL FURNISH ALL DUCTWORK AND ASSOCIATED SHEET METAL WORK AS CALLED FOR ON THE DRAWINGS AND REQUIRED FOR A COMPLETE DUCTED AIR DISTRIBUTION SYSTEM.

DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH BEST PRACTICES OF SHEET METAL WORK AND SMACNA STANDARDS.

ALL DUCTWORK SHALL BE GALVANIZED SHEET IRON THROUGHOUT EXCEPT WHERE OTHERWISE SHOWN AND FABRICATED IN ACCORDANCE WITH THE FOLLOWING TABLE (ALL DUCT SIZES ON CONTRACT DRAWINGS ARE SHEET METAL FABRICATION SIZES):

MAXIMUM DIMENSION OF DUCT	GAUGE U.S. STD.	TRANSVERSE JOINT	BRACING
UP TO 12"	26	DRIVE SLIPS 7"-10" CENTERS	NONE
13" TO 30"	24	DRIVE SLIPS 7"-10" CENTERS	1"x1"x1/8" ANGLES 4 FEET FROM JOINT

DUCTS 25 INCHES OR SMALLER IN MAXIMUM DIMENSION SHALL BE SUPPORTED WITH 1 INCH FLAT BAND HANGERS; DUCTS 25 INCHES AND LARGER SHALL BE SUPPORTED BY 3/4 INCH X 1-1/2 INCH ANGLE IRON AND ROUND ROD. SUPPORTS SHALL BE NOT MORE THAN 8 FEET ON CENTERS, PROPERLY FASTENED AND PLACED TO BUILDING STRUCTURES AND SHALL EXTEND AND BE RIVETED TO THE BOTTOM OF DUCTS.

UNLESS OTHERWISE SPECIFIED, FURNISH AND INSTALL ALL NECESSARY UNTELS, PROPERLY SIZED, SHEET METAL SLEEVES AND ESCUTCHEON COLLARS WHERE DUCTWORK RISES THROUGH FLOORS OR PASSES THROUGH WALLS OR CEILINGS.

FURNISH AND INSTALL FLEXIBLE COLLARS IN THE DUCTWORK CONNECTIONS TO AIR HANDLING FANS TO PREVENT NOISE TRANSMISSION BETWEEN SECTIONS.

ALL CHANGES IN DUCT DIRECTION SHALL BE LONG RADIUS ELBOWS OR SHALL BE FITTED WITH TURNING VANES. IT IS ACCEPTABLE TO CHANGE RECTANGULAR DUCTWORK TO THE EQUIVALENT SIZE IN ROUND PROVIDED THE CONTRACTOR COORDINATES ALL CLEARANCE ISSUES.

DUCT INSULATION:

ALL CONCEALED DUCTWORK SHALL BE INSULATED ON THE OUTSIDE WITH TWO INCH (2") THICK, 3/4 POUND DENSITY FIBERGLASS BLANKET INSULATION HAVING AN ALUMINUM FOIL-SCRIM VAPOR BARRIER JACKET.

EDGES OF INSULATION SHALL BE CUT STRAIGHT AND TRUE AND SHALL BE TIGHTLY BUTTED. THE VAPOR BARRIER JACKET SHALL OVERLAP THE BLANKET JOINT A MINIMUM OF THREE INCHES (3"). THE JACKET LAP SHALL BE FASTENED WITH MOISTURE RESISTANT ADHESIVE AND ALSO OUTWARD CLINCHING STAPLES SPACED TEN INCHES (10") C/C. THE VAPOR BARRIER EDGE AND STAPLES SHALL THEN BE COVERED WITH A THREE INCH (3") WIDE TAPE OF THE SAME MATERIAL AS THE JACKET AND SHALL BE FASTENED WITH MOISTURE RESISTANT ADHESIVE.

ALL CUTS, TEARS AND PENETRATIONS IN THE VAPOR BARRIER JACKET SHALL BE SEALED WITH JOINT TAPE. ALL EDGES OF INSULATING BLANKET SHALL BE SEALED FROM THE JACKET TO DUCT SURFACE WITH TAPE.

INSULATING BLANKET ON THE BOTTOM OF SURFACES IN EXCESS OF 24 INCHES WIDE SHALL BE SECURED AGAINST THE DUCT WITH ADHESIVE OVER THE ENTIRE AREA, MECHANICAL CLIPS ON 24 INCH CENTER OR BY WIRE TIES AROUND THE DUCT SPACED 24 INCHES C/C.

CONTRACTOR MAY USE FLEXIBLE DUCTWORK (MAXIMUM LENGTHS 15'-0") FOR FINAL CONNECTIONS TO DIFFUSERS/GRILLES. FLEXIBLE DUCTWORK SHALL BE CERTIFLEX 25 AS MANUFACTURED BY THE CERTAINTED CORPORATION.

REGISTERS AND GRILLES: ALL REGISTERS AND GRILLES SHALL BE OF SIZE, STYLE AND CAPACITY CALLED FOR ON PLANS AND IN THE GRILLE SCHEDULE. PROVIDE RUBBER OR EXPANDED FOAM GASKETS COMPLETELY AROUND ALL REGISTER AND GRILLE FRAMES TO PREVENT AIR LEAKAGE BETWEEN GRILLE FRAME AND DUCT OR BETWEEN GRILLE FRAME AND SURROUNDING FINISHED SURFACE. ACCEPTABLE MGFS: PRICE, CARNES, METALAIR, KRUGER. REGISTERS AND GRILLES SHALL BE BALANCED TO CFM SHOWN AND RECORD MADE OF ACTUAL FLOW AND BALANCE METHOD.

EQUIPMENT: MECHANICAL AND ELECTRICAL CONTRACTORS SHALL COORDINATE PRIOR TO ORDERING EQUIPMENT TO VERIFY CONSISTANT VOLTAGES. PRIOR TO EQUIPMENT BEING ENERGIZED, VOLTAGE TO EQUIPMENT CIRCUITS SHALL BE VERIFIED AS INSTALLED TO MATCH EQUIPMENT NAMEPLATE.

OPERATING INSTRUCTIONS, CERTIFICATES AND WARRANTIES: THE ORIGINAL OF ALL INSPECTION CERTIFICATES SHALL BE DELIVERED TO THE OWNER AND ONE (1) COPY EACH TO THE ENGINEER PRIOR TO REQUEST FOR FINAL PAYMENT.

THREE (3) COPIES OF OPERATING AND MAINTENANCE INSTRUCTIONS AND MANUFACTURER'S WARRANTIES FOR ALL EQUIPMENT PROVIDED UNDER THIS CONTRACT SHALL BE PROVIDED TO THE OWNER PRIOR TO SUBMITTING REQUEST FOR FINAL PAYMENT.

PRIOR TO FINAL PAYMENT TO THE CONTRACT, THE CONTRACTOR SHALL BE RESPONSIBLE TO TRAIN THE AUTHORIZED PERSONNEL ON HOW TO SERVICE, START-UP AND SHUT-DOWN THE VARIOUS SECTIONS OF THE SYSTEM. UPON COMPLETION OF THIS PHASE OF THE CONTRACT, THE CONTRACTOR SHALL SECURE A LETTER OF ACCEPTANCE FROM THE OWNER THAT HE IS SATISFIED WITH THE CONDITIONS STIPULATED HEREIN. UPON ACCEPTANCE OF THIS LETTER AND AT THE DISCRETION OF THE ENGINEER, THE FINAL PAYMENT WILL BE MADE.

THE CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE OF ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM DATE OF SYSTEM ACCEPTANCE.

THE WORK UNDER THIS CONTRACT WILL BE ACCEPTED ONLY AS AN ENTIRE SYSTEM UPON SATISFACTORY COMPLETION OF THE REQUIRED TESTS. NO PARTIAL ACCEPTANCE OF ANY PART OR PORTION OF APPARATUS WILL BE MADE.

INSTALL AND CONNECT ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DO ALL WORK IN A NEAT AND WORKMANLIKE MANNER AND IN ACCORDANCE WITH ACCEPTED GOOD PRACTICE AS JUDGED BY THE ENGINEER.

ALL EQUIPMENT AND PIPING SHALL BE SO INSTALLED THAT NO OBJECTIONABLE NOISES FROM EQUIPMENT, PIPING OR AIR DISTRIBUTION ARE AUDIBLE IN THE FINISHED AREAS.

GUARANTEE: THIS CONTRACTOR SHALL GUARANTEE ALL MATERIALS, EQUIPMENT AND WORKMANSHIP FOR ONE (1) YEAR FOLLOWING FINAL INSPECTION AND ACCEPTANCE OF THE BUILDING BY THE ENGINEER AND OWNER. THIS APPLIES TO ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT, REGARDLESS OF SOURCE.

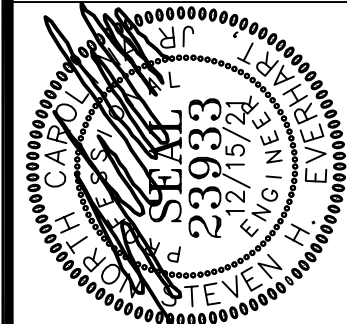
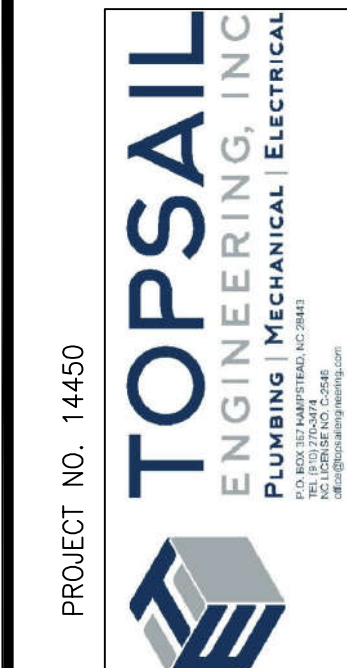
THE ONE (1) YEAR GUARANTEE PERIOD WILL START ON THE DAY OF FINAL INSPECTION AND ACCEPTANCE BY THE OWNER. THE CONTRACTOR SHALL PROVIDE THE ENGINEER A LETTER WITH TWO (2) COPIES STATING THE BEGINNING AND ENDING DATES OF THE GUARANTEE BASED ON THE AFOREMENTIONED STARTING DATES.

EXTENDED GUARANTEE: PROVIDE AN ADDITIONAL FOUR (4) YEAR GUARANTEE ON ALL COMPRESSORS BEYOND THE ABOVE MENTIONED ONE (1) YEAR GUARANTEE PERIOD.

AIR BALANCE: ALL SYSTEMS SHALL BE BALANCED BY THE CONTRACTOR PER THE REQUIREMENTS OF SECTION 408.2.2.1 OF THE NORTH CAROLINA STATE BUILDING CODE: ENERGY CONSERVATION CODE.

ENERGY CODE COMPLIANCE: HVAC EQUIPMENT SELECTED MEETS PERFORMANCE REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE: ENERGY CONSERVATION CODE SECTION 406.2 ANY SUBSTITUTIONS MUST MEET THIS STANDARD AS WELL. UPON FINAL INSPECTION THE CONTRACTOR SHALL PROVIDE TO OWNER MANUALS AND EVIDENCE OF AIR BALANCE. CONTRACTOR SHALL SCHEDULE DESIGN PROFESSIONAL AND ASSIST TO COMPLETE SYSTEM INSTALLATION STATEMENT IN ACCORDANCE WITH THE NORTH CAROLINA STATE BUILDING CODE: ENERGY CONSERVATION CODE SECTION 408.1.

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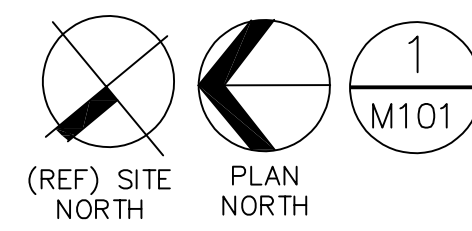


Proposed Concrete Batch Plant Office for
Crete Solutions, LLC
 2544 US 401 N
 LILLINGTON, NORTH CAROLINA 27546
 MECHANICAL SCHEDULES, NOTES & DETAILS
 Construction Document - Issued for Construction

date	15 DEC, 2021
job no.	CRETE/BUS
drawn by	KSG
checked by	SE
drawing no.	M100
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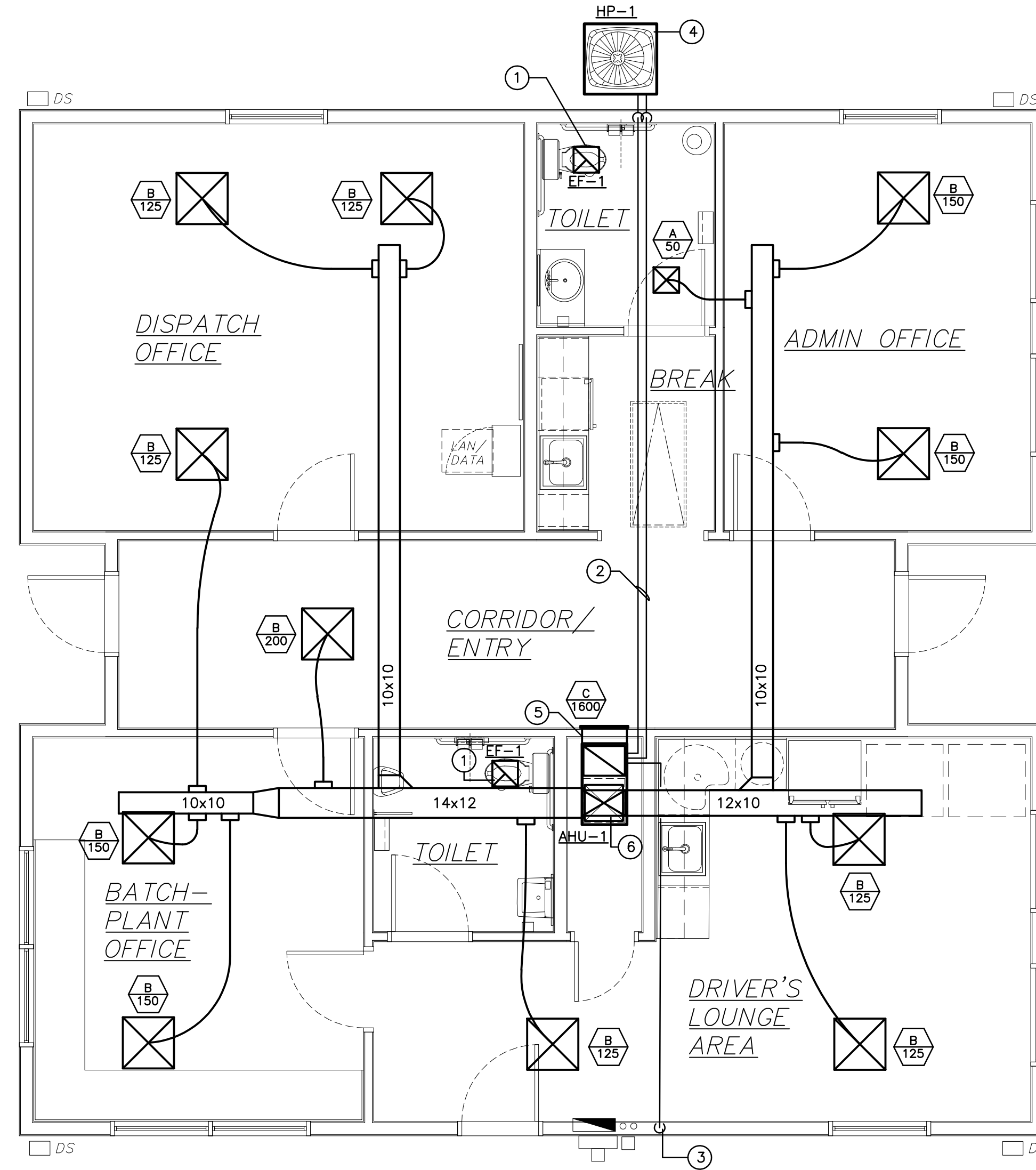


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M101

PROPOSED FLOOR PLAN — MECHANICAL

SCALE: 1/4" = 1'-0"

GRAPHIC BAR SCALE (FOOT UNITS)



GENERAL NOTES:

- ① ROUTE 6" EXHAUST TO WALL OR ROOF CAP AS CORRINATED IN FIELD.
- ② REFRIGERANT PIPING CONCEALED ABOVE CEILING AND IN BUILDING CONSTRUCTION, SIZE AS RECOMMENDED BY UNIT MANUFACTURER. (TYP.)
- ③ 1" CONDENSATE DRAIN PIPING WITH PROPER PITCH. TERMINATE OUTSIDE BUILDING, MIN. 8" ABOVE GRADE WITH ELBOW LOOKING UP. (TYP.)
- ④ MOUNT UNIT ON 4" CONCRETE PAD OR PAVED SURFACE.
- ⑤ ROUTE 8" O.A. TO INTAKE VENT VIA BACKDRAFT DAMPER AND BALANCE DEVICE. MINIMUM 10' BETWEEN O.A. INTAKE AND EXHAUST FAN CAP.
- ⑥ 20 X 12 UP TO CEILING AREA.

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2544 US 401 N LILLINGTON, NORTH CAROLINA 27546	
FLOOR PLAN — MECHANICAL	
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 P.O. BOX 3131

PROJECT NO. 14450

PLUMBING | MECHANICAL | ELECTRICAL

DETAILED ELECTRICAL SPECIFICATIONS

SCOPE: FURNISH ALL MATERIALS, LABOR, TOOLS, EQUIPMENT AND SUPERVISION NECESSARY TO INSTALL COMPLETE ELECTRICAL POWER AND LIGHTING SYSTEM IN THE BUILDING AS FURTHER DESCRIBED ON THE ELECTRICAL CONTRACT DRAWINGS.

SUPPLY ALL MATERIALS, FITTINGS AND HARDWARE NECESSARY FOR COMPLETE OPERATING SYSTEMS WITHIN THE OBVIOUS INTENT OF THE DRAWINGS. NO ATTEMPT HAS BEEN MADE TO DETAIL OR LIST EACH AND EVERY ITEM OF MATERIAL. THE ELECTRICAL CONTRACTOR IS CAUTIONED TO READ THE ENTIRE PROJECT DRAWINGS AND SPECIFICATIONS TO ASSURE HIMSELF OF A THOROUGH KNOWLEDGE OF BUILDING CONSTRUCTION, STRUCTURAL RESTRICTIONS TO ELECTRICAL CONTRACT WORK AND TO ASSURE THAT NO REFERENCE ANYWHERE IN THE PROJECT DRAWINGS AND SPECIFICATIONS TO WORK BY THE ELECTRICAL CONTRACTOR IS OVERLOOKED.

CODES, PERMITS AND INSPECTIONS: THE LATEST EDITION OF THE STATE BUILDING CODE WHICH INCLUDES THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE IS HEREBY MADE A PART OF THIS SPECIFICATION. CODE REQUIREMENTS SHALL TAKE PRECEDENCE OVER THESE SPECIFICATIONS WHERE THE CODE REQUIREMENTS EXCEED THAT OF THE SPECIFICATIONS. HOWEVER, THE SPECIFICATIONS SHALL BE FOLLOWED WHERE THEY EXCEED CODE REQUIREMENTS. THE ELECTRICAL CONTRACTOR SHALL, AT NO ADDITIONAL COST TO THE OWNER, OBTAIN THE SERVICES OF THE LOCAL ELECTRICAL INSPECTOR TO MAKE ALL REQUIRED DURING CONSTRUCTION AND COMPLETED ELECTRICAL SYSTEM INSPECTIONS.

MATERIALS AND WORKMANSHIP: ALL MATERIAL BUILT INTO THIS PROJECT SHALL BE NEW OF EQUIVALENT OR BETTER QUALITY THAN THAT SPECIFIED. SPECIFIC NAMES AND CATALOG NUMBERS USED HEREIN ARE TO ESTABLISH THE ITEM FUNCTION, ARRANGEMENT AND QUALITY REQUIRED AND ARE NOT INTENDED TO RESTRICT COMPETITION. ALL MATERIALS SHALL BE UL LISTED AND LABELED FOR THE PARTICULAR APPLICATION AS USED ON THIS PROJECT.

CONDUCTORS: ALL CONDUCTORS SHALL BE COPPER (#10 AWG AND SMALLER SHALL BE SOLID, AND #8 AWG AND LARGER STRANDED) WITH THHN/THWN INSULATION, INSTALLED IN CONDUIT OR APPROVED CABLE ASSEMBLY. NM CABLE SHALL NOT BE USED. CONDUCTORS SHALL BE #12 AWG MINIMUM EXCEPT WITHIN LIGHT FIXTURES, LOW VOLTAGE CONTROLS OR COMMUNICATION/FIRE ALARM EQUIPMENT. CONDUCTOR COLOR CODE SHALL CONFORM TO THE NEC. CONDUCTORS SHALL BE CONTINUOUS FROM TERMINAL TO TERMINAL OR PULL BOX TO PULL BOX. JOINTS SHALL BE MADE WITH IDEAL "WIRENUTS."

RACEWAYS: RACEWAYS SHALL BE ELECTRICAL METALLIC TUBING (EMT) WITH THREADED STEEL HEXAGONAL COMPRESSION FITTINGS - NEITHER INDENTOR TYPE OR DIE METAL FITTING WILL BE ACCEPTED. CONDUIT UNDER THE FLOOR SLAB AND UNDER GROUND OUTSIDE THE BUILDING MAY BE PVC. FITTINGS IN EMT SHALL BE WEATHER TIGHT (THOMAS AND BETTS SERIES #5123 WITH NYLON INSULATED THROATS), BENDS SHALL BE FACTORY FABRICATED OR MADE "COLD" WITH BENDING TOOL, FREE OF KINKS OR RESTRICTIONS. NO SINGLE BEND SHALL BE IN EXCESS OF 90 DEGREES. THERE SHALL BE NO MORE THAN THE EQUIVALENT OF THREE (3) 90 DEGREE BENDS IN A GIVEN RACEWAY FROM PULL BOX TO PULL BOX. RIGID RACEWAY THREADS SHALL BE CUT STRAIGHT AND TRUE - PIPE ENDS SHALL BE REAMED AND SMOOTHED INSIDE AND OUT.

SUPPORT 1-1/2 INCH AND LARGER CONDUIT 10 FEET O/C OR LESS, AND 1 INCH AND SMALLER 6 FEET O/C MAXIMUM. RACEWAYS SHALL BE SUPPORTED DIRECTLY FROM BUILDING STRUCTURE WITH BOLTS, SCREWS, STRAPS, HANGER RODS AND BRACKETS. ALL METALLIC HARDWARE SHALL BE GALVANIZED OR CADMIUM PLATED. NAILS, WIRE AND/OR PERFORATED STRAPS WILL NOT BE ACCEPTED.

USE THREADED LOCKNUTS OUTSIDE AND THREADED LOCKNUT AND BUSHING INSIDE ALL RACEWAY CONNECTIONS TO BOXES, DEVICES, PANELS AND GUTTERS. USE NON-METALLIC BUSHINGS ON ALL 1-1/4 INCH AND LARGER CONDUIT. EXPOSED CONDUIT SHALL BE RUN STRAIGHT AND TRUE PARALLEL AND PERPENDICULAR TO PRIMARY BUILDING LINES.

BOXES AND DEVICES: ALL BOXES, PANELS AND EQUIPMENT SHALL BE SUPPORTED DIRECTLY FROM THE BUILDING STRUCTURE AND SHALL NOT DEPEND ON THE FEEDER RACEWAYS FOR SUPPORT. ALL ITEMS SHALL BE CAREFULLY ALIGNED SO THAT COVERS WILL FINISH FLUSH AND STRAIGHT. ALL UNUSED KNOCKOUTS SHALL BE CLOSED WITH BLANKING DEVICES. BOXES IN CONCRETE OR MASONRY SHALL BE 3-1/2 INCH DEEP (MINIMUM) SQUARE 16 GAUGE GALVANIZED STEEL - STEEL CITY SERIES GW. BOXES INSTALLED IN WOOD PARTITIONS SHALL BE STEEL CITY 3-1/2 INCH DEEP GANGABLE SQUARE CORNER TYPE. RECEPTACLES SHALL BE HUBBELL 5362 OR EQUAL. SWITCHES SHALL BE HUBBELL 1120 SERIES OR EQUAL. COVER PLATES SHALL BE IMPACT RESISTANT.

PULL BOXES SHALL BE 14 GAUGE GALVANIZED STEEL WITH BLANK COVER SIZED AS REQUIRED BY NATIONAL ELECTRICAL CODE. LOCATE DEVICES AND EQUIPMENT ABOVE FINISHED FLOOR AS FOLLOWS UNLESS OTHERWISE SPECIFICALLY NOTED ON PLANS:

- WALL SWITCHES - 4'-0" OR TO NEAREST MASONRY COURSE JOINT.
- RECEPTACLES - 1'-6" OR TO NEAREST MASONRY COURSE JOINT.
- LIGHT FIXTURES - AS NOTED ON FIXTURE SCHEDULE.

GROUNDING: THE ELECTRICAL SYSTEM AND ALL ELECTRICAL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE. GREEN EQUIPMENT GROUND WIRE SHALL BE USED WITH ALL FEEDERS AND BRANCH CIRCUITS.

LIGHTING FIXTURES: LIGHTING FIXTURES AND LAMPS SHALL BE PROVIDED AND INSTALLED AS PER SCHEDULE. ALL FIXTURES SHALL BE CLEANED ON COMPLETION OF INSTALLATION.

TESTS: THE CONTRACTOR SHALL MEGGER ALL BUSWAYS, CABLES AND CONTROL CONNECTIONS TO PROVE INSULATION RESISTANCE IS OF ACCEPTABLE VALUE.

PANELBOARDS: PROVIDE PANELBOARDS RATED AND SIZED AS INDICATED IN THE SCHEDULE AND SHOWN ON THE PLANS EQUAL TO SQUARE D COMPANY MODEL QO LOAD CENTER.

ACCEPTABLE MANUFACTURERS: SQUARE D, GENERAL ELECTRIC, SIEMENS, CUTLER-HAMMER

SAFETY SWITCHES: SWITCHES SHALL BE EQUAL TO SQUARE D TYPE GD WITH RATINGS AND FUSING PROVISIONS AS INDICATED.

IDENTIFICATION AND NAMEPLATES: PROVIDE ENGRAVED, LAMINATED BAKELITE (WHITE LETTERS ON BLACK SURFACE) NAMEPLATES SCREWED TO EACH PIECE OF ELECTRICAL DISTRIBUTION EQUIPMENT AS FOLLOWS:

A. PANELBOARDS, SWITCHBOARDS - DESIGNATION L1, P1, ETC., VOLTAGE, PHASE NUMBER OF WIRES, ETC.; WORDING EXAMPLE: PANEL L1-208V-3 PHASE, 4 WIRE.

B. MOTOR STARTERS, DISCONNECT SWITCHES - UNLESS MOUNTED DIRECTLY ON OR ADJACENT TO IDENTIFY EQUIPMENT; WORDING EXAMPLE: EXHAUST FAN 1, MAKE-UP AIR UNIT.

PROVIDE TYPED DIRECTORIES FOR PANELBOARD BRANCH CIRCUIT IDENTIFICATION. IDENTIFY EACH CIRCUIT BREAKER AS TO THE EXACT ROOM NUMBERS OR AREA SERVED AND THE TYPE OF CIRCUIT, I.E. "ROOMS 101-104 LIGHTS" OR "CAFETERIA EXHAUST FAN".

EQUIPMENT CONNECTIONS: THIS CONTRACTOR SHALL BRING ALL REQUIRED ELECTRICAL SERVICE TO ALL EQUIPMENT ITEMS FURNISHED UNDER OTHER SECTIONS OF THESE SPECIFICATIONS OR BY THE OWNER, MAKE FINAL CONNECTIONS, AND LEAVE EQUIPMENT READY FOR OPERATION. THIS CONTRACTOR SHALL COORDINATE WITH ANY AFFECTED TRADE TO ASSURE CORRECT OPERATION OF THE EQUIPMENT ITEM.

CONTROL AND INTERLOCK WIRING: EXCEPT AS OTHERWISE INDICATED ON THE DRAWINGS, ALL CONTROL AND INTERLOCK WIRING SHALL BE PERFORMED BY THE RESPECTIVE CONTRACTORS.

THE ELECTRICAL SUBCONTRACTOR SHALL INSTALL ALL STARTERS, PILOT SWITCHES, CONTROL DEVICES AND MISCELLANEOUS ITEMS OF ELECTRICAL EQUIPMENT FURNISHED UNDER OTHER SECTIONS OF THESE SPECIFICATIONS THAT ARE NOT INTEGRALLY MOUNTED WITH THEIR ASSOCIATED EQUIPMENT.

SERVICE: THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SERVICE WITH THE UTILITY COMPANY. PROVIDE UTILITY REQUIRED METERING PROVISIONS. PROVIDE CT CAN OR CONCRETE PAD FOR TRANSFORMER AS REQUIRED. PROVIDE CONDUIT FOR UTILITY IF REQUIRED. EC SHALL WORK DIRECTLY WITH THE UTILITY AND SHALL COMPLETE AND SUBMIT ALL LOAD DATA SHEETS REQUIRED FOR SERVICE APPLICATION.

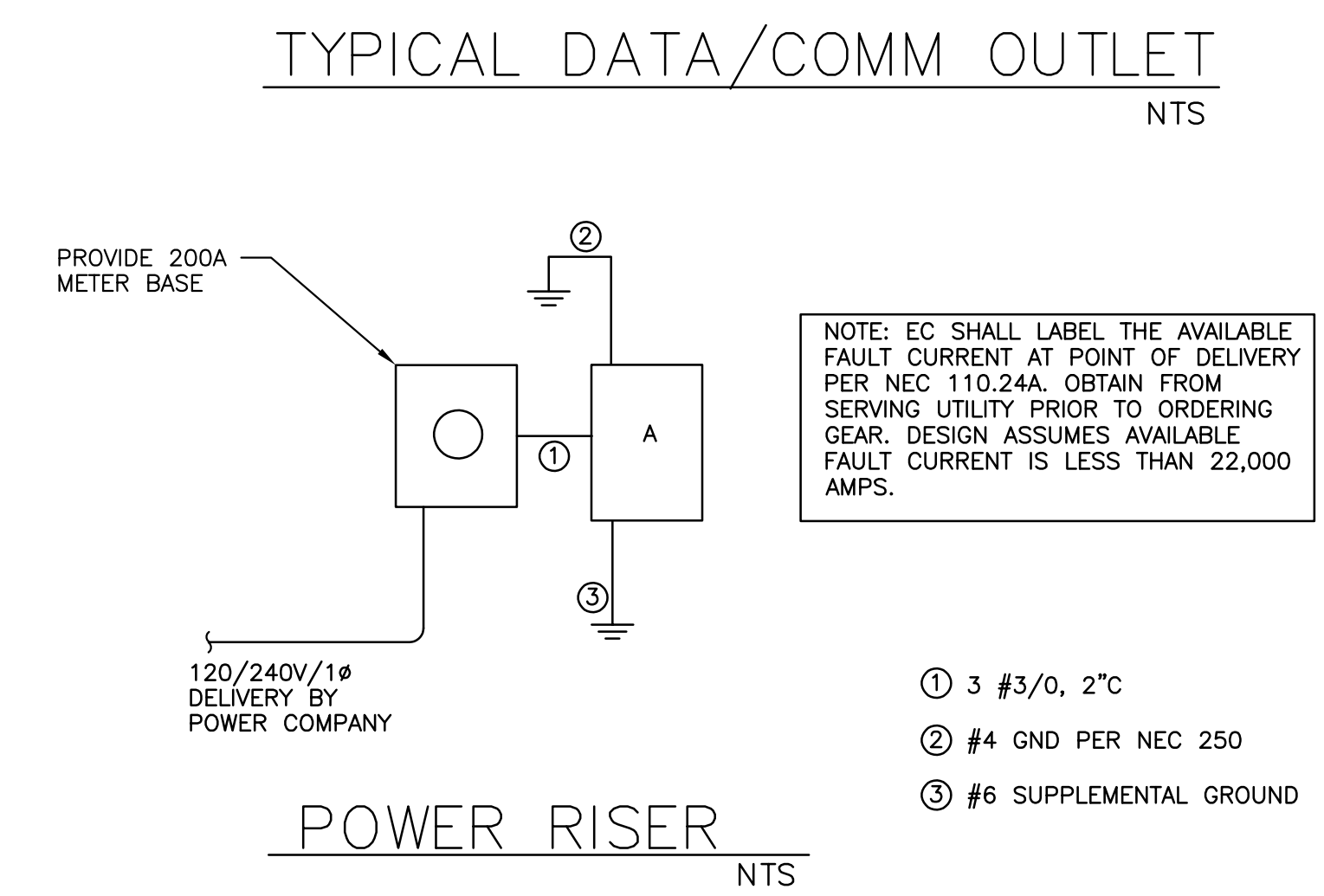
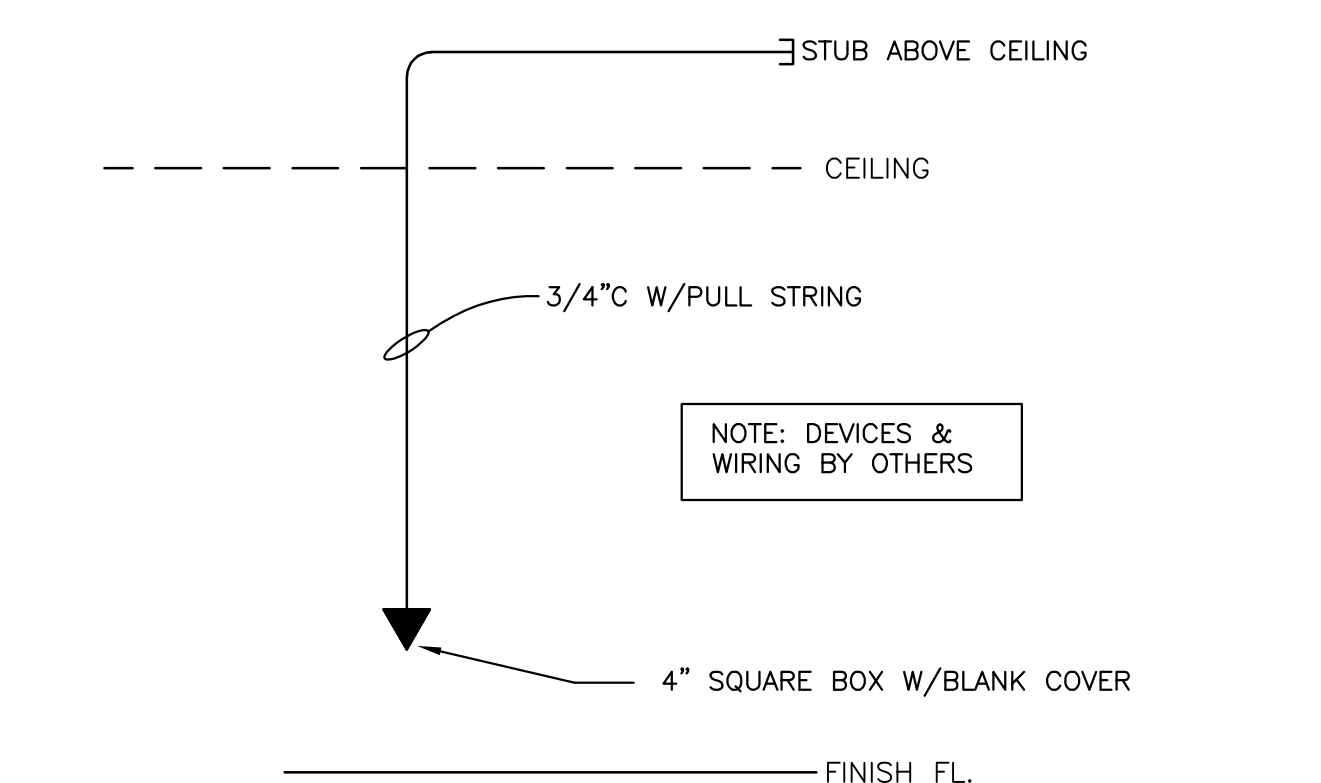
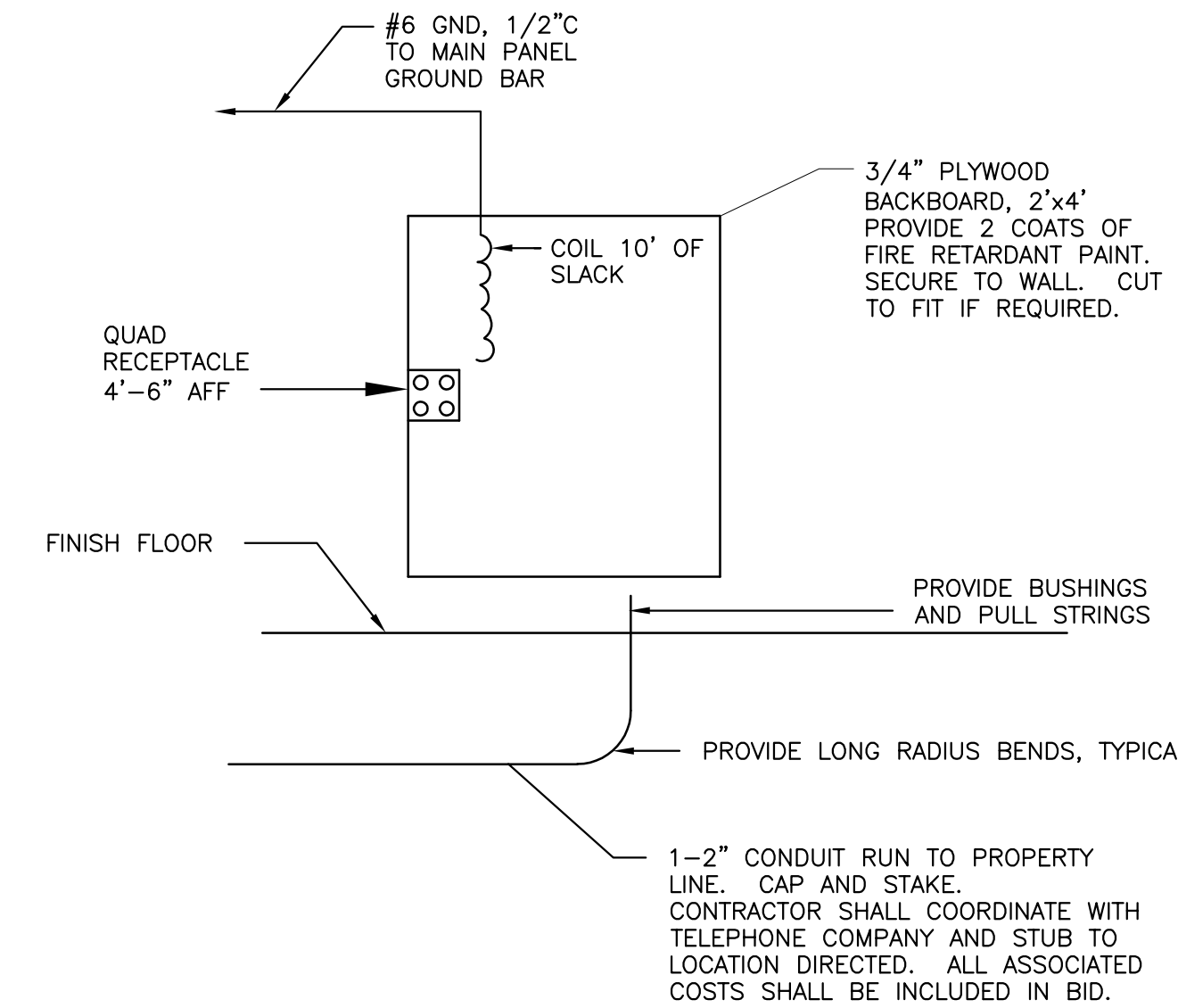
EQUIPMENT CONNECTION SCHEDULE

CALLOUT	SYMBOL	VOLTS	AMPS	KVA	CIRCUIT	WIRE CALLOUT	MCA	MOCF	DISCONNECT	DISCONNECT DESCRIPTION
AHU		240V 2P 2W	45	10.8	A-1,3	2 #6, #10 GND	55	60	FUSED	240/60/2
HP		240V 2P 2W	24.2	5.8	A-2,4	2 #8, #10 GND	30	50	FUSED	240/60/2/3R
WH		120V 1P 2W	12.5	1.5	A-5	2 #12, #12 GND	16	20	TOGGLE SWITCH	

MOUNTING FLUSH FED FROM UTILITY		VOLTS 240/120V 2P 3W		AIC 22,000					
NOTE		BUS AMPS 200		MAIN BRKR 200					
		NEUTRAL 100%		LUGS STANDARD					
CKT #	CKT BKR	LOAD KVA		CKT #	CKT BKR	LOAD KVA			
		A	B			A	B		
1	60/2	AHU	5.4	2	50/2	HP	2.9		
3	-		5.4	4	-		2.9		
5	20/1	WATER HEATER	1.5	6	20/1	LIGHTING	0.621		
7	20/1	SPARE	0	8	20/1	LIGHTING	0.627		
9	20/1	REFRIGERATOR	1.2	10	20/1	EXTERIOR LIGHTING	0.128		
11	20/1	VENDING	1.2	12	20/1	LAN	0.36		
13	20/1	VENDING	1.2	14	20/1	TEL BOARD	0.36		
15	20/1	ADMIN RECEPTACLE	0.9	16	20/1	UC REFRIGERATOR	0.6		
17	20/1	DISPATCH RECEPTACLE	0.54	18	20/1	BREAK RECEPTACLE	0.18		
19	20/1	DISPATCH RECEPTACLE	0.54	20	20/1	BREAK RECEPTACLE	0.18		
21	20/1	TLTS, HALL, OUTSIDE RECEPTACLE	0.9	22	20/1	LOUNGE RECEPTACLE	0.18		
23	20/1	BATCH RECEPTACLE	0.54	24	20/1	LOUNGE RECEPTACLE	0.36		
25	20/1	BATCH RECEPTACLE	0.54	26	20/1	SPARE	0		
27	20/1	LOUNGE RECEPTACLE	0.54	28	20/1	SPARE	0		
29	20/1	SPARE	0	30	20/1	SPARE	0		
31	20/1	SPARE	0	32	20/1	SPARE	0		
33	20/1	SPARE	0	34	20/1	SPARE	0		
35	-/1	SPACE	0	36	-/1	SPACE	0		
37	-/1	SPACE	0	38	-/1	SPACE	0		
39	-/1	SPACE	0	40	-/1	SPACE	0		
		TOTAL CONNECTED KVA BY PHASE				15.6		14.1	
		CONN KVA		CALC KVA		CONN KVA		CALC KVA	
LIGHTING		1.38	1.72	(125%)	CONTINUOUS	1.5	1.88	(125%)	
LARGEST MOTOR		5.8	1.45	(25%)	HEATING	10.8	10.8	(100%)	
OTHER MOTORS		0	0	(100%)	COOLING	5.8	0	(0%)	
RECEPTACLES		6.12	6.12	(50%>10)	NONCONTINUOUS	0	0	(100%)	
KITCHEN EQUIP		4.2	3.36	(80%)	DIVERSE	0	0	(N/A)	
						METERED DEMAND	0	0	(125%)
						TOTAL KVA	29.8	25.3	
						BALANCED AMPS		106	

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
---	CONDUIT
----	CONDUIT UNDERFLOOR OR UNDERGROUND
	ARROW INDICATES HOMERUN, TICKMARKS: NEUTRAL, PHASE, GND.
	POWER PANEL
	DATA/COMM OUTLET
	JUNCTION BOX
	DISCONNECT SWITCH; FUSED; NONFUSED
	FUSE PER NAMEPLATE
	MOTOR TOGGLE SWITCH
	MOTOR
	EXISTING OR BY OTHERS
	LIGHT FIXTURE
	SINGLE POLE SWITCH, 3 WAY, 4 WAY
	DIMMER SWITCH, 3-WAY DIMMER SWITCH
	ABOVE FINISHED FLOOR
	DUPLEX RECEPT, ABOVE COUNTER
	WEATHERPROOF, GROUND FAULT
	QUAD-PLEX RECEPTACLE



no.	date	revision

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PROJECT NO. 14450

TOPSAIL
ENGINEERING, INC.
PLUMBING | MECHANICAL | ELECTRICAL

SEAL
018518
12/15/21
MICHAEL L. SOIBEE, JR.
WILMINGTON, NORTH CAROLINA 28405
P.O. BOX 3131

Design Elements
MICHAEL L. SOIBEE, JR., AIA, AIBD
1913 Calverth Drive, Suite 142
Wilmington, North Carolina 28405
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Proposed Concrete Batch Plant Office for Crete Solutions, LLC

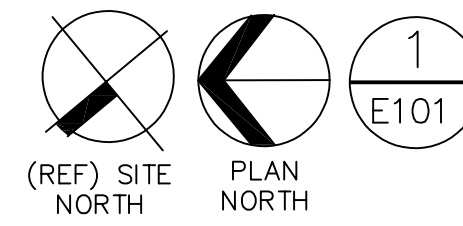
2544 US 401 N
LILLINGTON, NORTH CAROLINA 27546

ELECTRICAL SCHEDULES, NOTES & DETAILS
Construction Document - Issued for Construction

date 15 DEC, 2021
job no. CRETE/BUS
drawn by RSG
checked by GLM
drawing no.

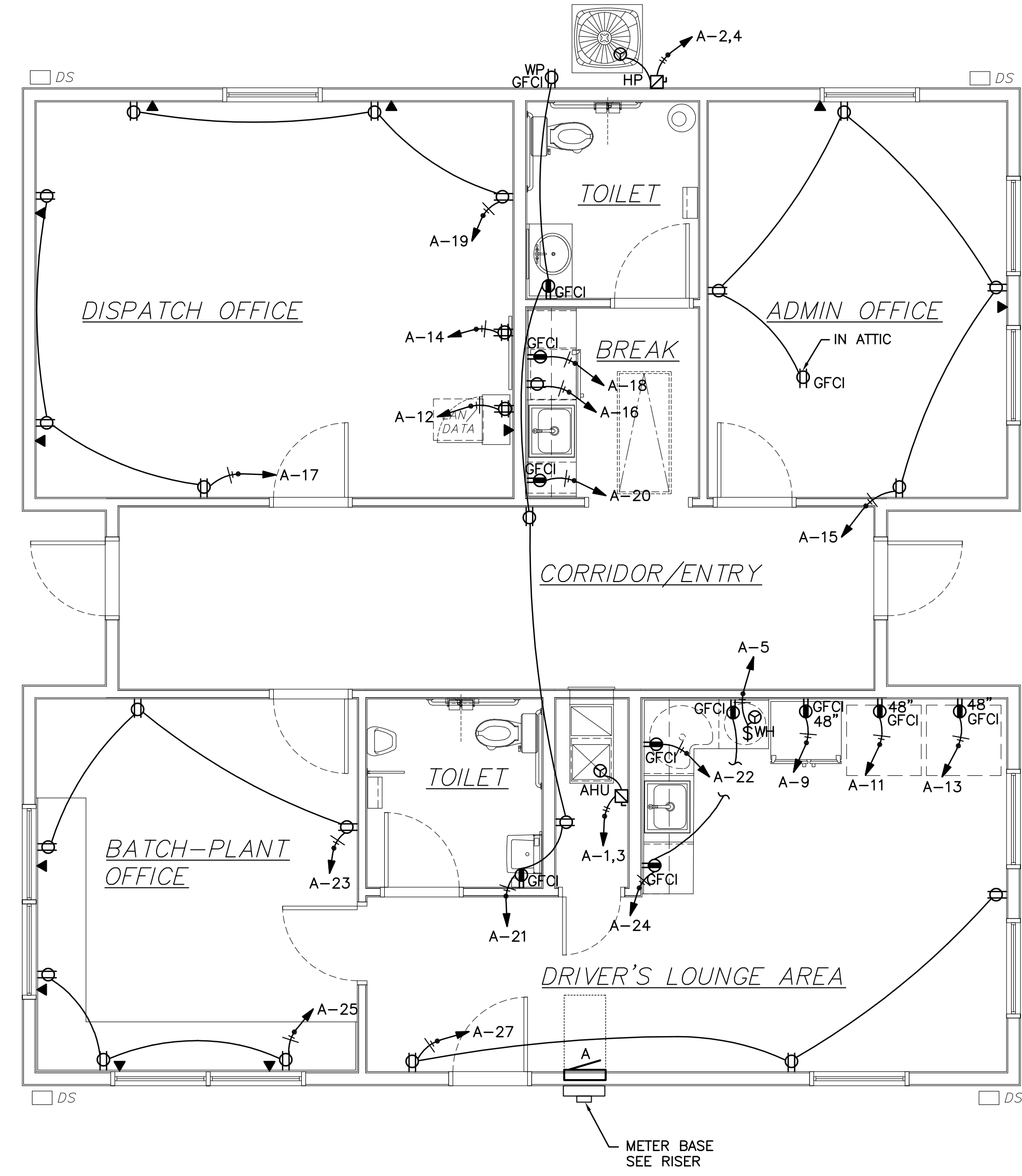
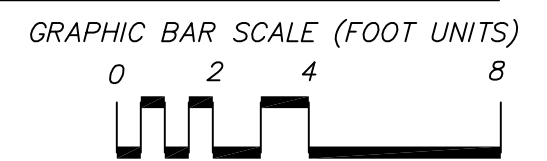
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revision no.

no.	date	revision



1 PROPOSED FLOOR PLAN — POWER

SCALE: 1/4" = 1'-0"



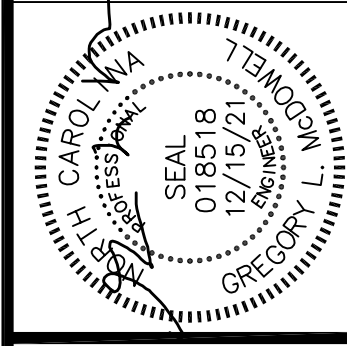
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Proposed Concrete Batch Plant Office for Crete Solutions, LLC
 2544 US 401 N
 LILLINGTON, NORTH CAROLINA 27546
FLOOR PLAN — ELECTRICAL — POWER
 job status **Construction Document - Issued for Construction**

date 15 DEC, 2021
 job no. CRETE/BUS
 drawn by RSG
 checked by GLM
 drawing no.

E101
 revision no.

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 P.O. BOX 3131



PROJECT NO. 14450
TOPSAIL
 ENGINEERING, INC.
 PLUMBING | MECHANICAL | ELECTRICAL

THIS SHEET SHOWS BASIC DRAFTING STANDARDS

LUMINAIRE SCHEDULE								
CALLOUT	LAMP	DESCRIPTION	MOUNTING	MODEL	INPUT WATTS	NOTE 1	QUANTITY	VOLTS
A	LED	2x4 BASKET TROFFER	CEILING	DAY-BRITE 2EVG38L850UNVDIM	37		22	120
B	LED	WRAPAROUND	SURFACE	DAY-BRITE OWL44OL835UNVDIM	37		1	120
C	LED	2' STRIP	WALL	DAY-BRITE FSS220L840UNVDIM	17		1	120
D	LED	DOWNLIGHT	RECESSED	LIGHTOLIER P6RD10NZ10UVB P6RD835VB P6RDCC	10		2	120
E	INCLUDED	EMERGENCY	WALL	CHLORIDE CFX6			3	120
ER	INCLUDED	REMOTE HEAD	WALL	CHLORIDE VLL2R			3	120
EX	LED (EXIT) INCLUDED (EM)	EXIT/EM COMBO	WALL/CEILING	CHLORIDE VCRW			3	120
F	AS REQUIRED	VANITY	WALL	SELECTED BY OWNER	100	100W MAX	2	120
G	LED	KEYLESS FIXTURE	SURFACE	SELECTED BY CONTRACTOR	60		1	120
OA	LED	EXTERIOR SCONCE	WALL	STONCO LPWZ-8BZ	14	UL DAMP LABEL	2	120
OB	LED	EXTERIOR SCONCE	WALL	LIGHTOLIER P6RD15NZ10UVB P6RD840VB P6RDCC	100	UL WET LABEL	1	120

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE:

Energy Code: Prescriptive Performance
 ASHRAE 90.1: Prescriptive Performance

Lighting schedule

lamp type required in fixture See Fixture Schedule
 number of lamps in fixture See Fixture Schedule
 ballast type used in the fixture See Fixture Schedule
 number of ballasts in fixture See Fixture Schedule
 total wattage per fixture See Fixture Schedule
 Building Area Space by Space
 total interior wattage specified vs allowed 1088/1312
 total exterior wattage specified vs allowed 48/780

Additional Prescriptive Compliance

- 506.2.1 More Efficient Mechanical Equipment
- 506.2.2 Reduced Lighting Power Density
- 506.2.3 Energy Recovery Ventilation Systems
- 506.2.4 Higher Efficiency Service Water Heating
- 506.2.5 On-Site Supply of Renewable Energy
- 506.2.6 Automatic Daylighting Control System
- N/A EXISTING/RENOVATION

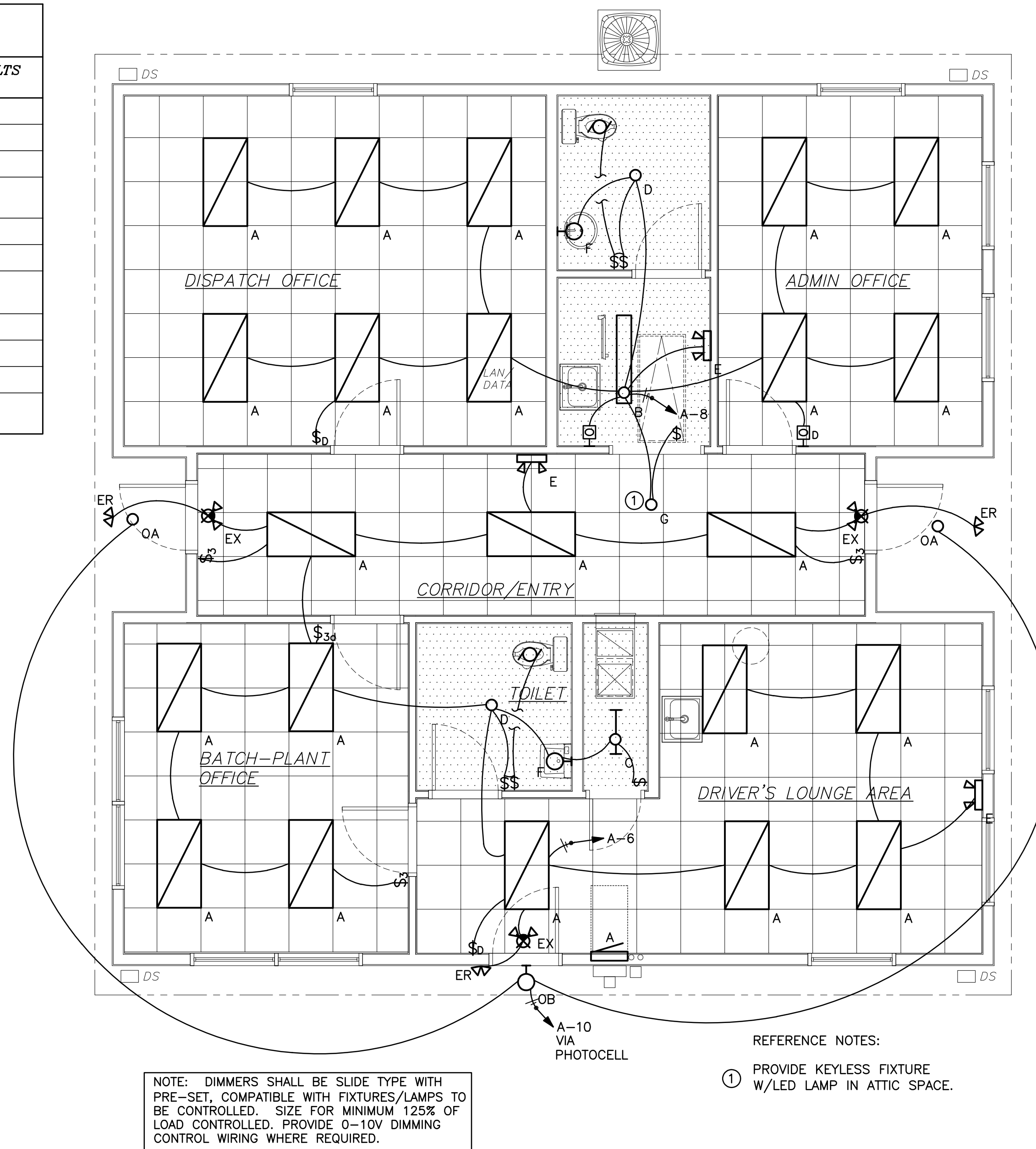
DESIGNER STATEMENT:

To the best of my knowledge and belief, the design of this building complies with the requirements of Chapter 5 of the 2012 North Carolina State Energy Code.

SIGNED: Gregory McDowell
 NAME: Gregory McDowell
 TITLE: Professional Engineer

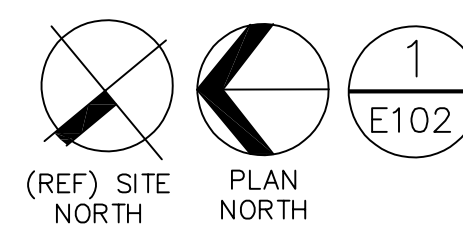
SWITCH SCHEDULE

SYMBOL	NOTE 1
\$ _D	DIMMER SWITCH
\$	Single Pole Switch
\$ _D	0-10V LOCAL WALL MOUNT DIMMER / SENSOR WATTSTOPPER PW-311
\$ ₃	WALL BOX OCCUPANCY SENSOR GREENGATE ONW-P-1001-MV-W
\$ ₃	3-WAY SWITCH
\$ _{3d}	3-Way Dimmer

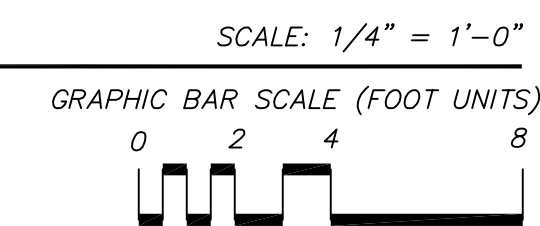


NOTE: DIMMERS SHALL BE SLIDE TYPE WITH PRE-SET, COMPATIBLE WITH FIXTURES/LAMPS TO BE CONTROLLED. SIZE FOR MINIMUM 125% OF LOAD CONTROLLED. PROVIDE 0-10V DIMMING CONTROL WIRING WHERE REQUIRED.

REFERENCE NOTES:
 ① PROVIDE KEYLESS FIXTURE W/LED LAMP IN ATTIC SPACE.

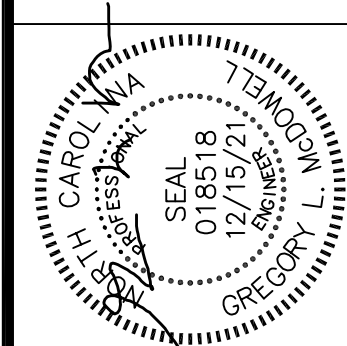
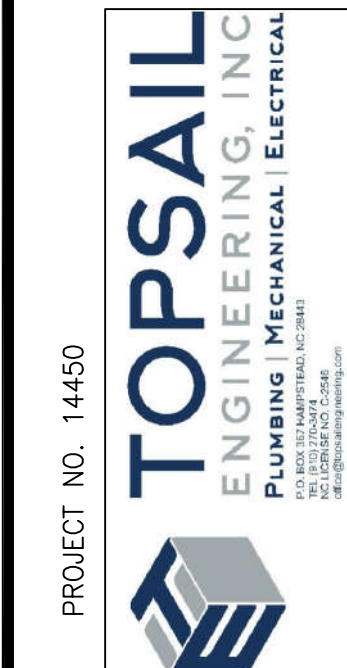


PROPOSED FLOOR PLAN - LIGHTING



no.	date	revision

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 2544 US 401 N LILLINGTON, NORTH CAROLINA 27546
 FLOOR PLAN - ELECTRICAL - LIGHTING
 job status

date 15 DEC, 2021
 job no. CRETE/BUS
 drawn by RSG
 checked by GLM
 drawing no. **E102**
 revision no.