DRAWING INDEX

CIVIL

C-1.00 EXISTING CONDITIONS
C-2.00 SITE, GRADING, & LANDSCAPE PLAN

C-4.00 WATER PLAN
C-6.00 SITE DETAILS
C-6.01 WATER DETAILS

ARCHITECTURE

A0.00 COVER SHEET
A1.01 APPENDIX B
A1.02 LIFE SAFETY PLAN

A2.01 FLOOR PLAN, ROOF PLAN, RCP
A3.01 DOOR SCHEDULE & DETAILS
A4.04 ENLARGED PLANS & ACCESSIBILTY
A4.05 INTERIOR ELEVATIONS
A5.01 EXTERIOR ELEVATIONS

STRUCTURAL

S-1.0 GENERAL NOTES AND SCHEDULES S-1.1 TYPICAL DETAILS AND SCHEDULES

SECTIONS

S-2.0 COMFORT STATION FOUNDATION AND HEADER FRAMING PLANS S-2.1 COMFORT STATION ROOF FRAMING PLAN AND SECTIONS

S-3.0 FOUNDATON AND FRAMING DETAILS

PLUMBING

P001 PLUMBING COVER SHE

P101 PLUMBING PLAN

M100

MECHANICAL

ELECTRICAL

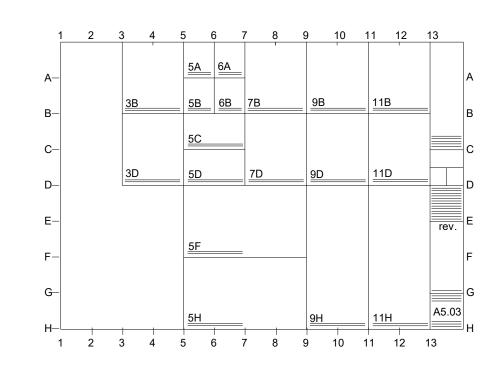
E0.0 ELECTRICAL COVER SHEET
E0.1 SYMBOL LEGENDS AND ABBREVIATIONS
E1.0 ELECTRICAL PLANS

E2.0 ELECTRICAL RISER DIAGRAM & SCHEDULES
E2.1 ELECTRICAL DETAILS
E2.2 ELECTRICAL DETAILS

MBING

DETAIL REFERENCE

DATE: 08/23/2024



DESIGN SHOP

630 N. Liberty Street I Winston-Salem, NC 27101

p. 336.701.0130 I www.stitchdesignshop.com

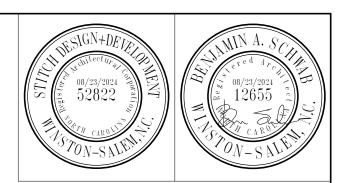
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PROJECT NUMBER:24-140

DETAILS ARE REFERENCED ACCORDING TO THEIR POSITION ON THE DRAWING SHEET. THE SYSTEM IS SIMILAR TO THAT OF A MAP. THE DRAWING SHEET IS DIVIDED INTO A GRID WITH LETTERS ON THE SIDES AND NUMBERS GOING ACROSS AS SHOWN ABOVE. FOR EXAMPLE DETAIL 9D.A5.03 WOULD BE FOUND AT THE INTERSECTION OF LINES 9 AND ON SHEET A5.03

PATRIOTS PARK RESTROOM FACILITY

PONDEROSA ROAD CAMERON, NC





ABBREVIATIONS

												OLIOD	
	d	0.11		E.C.	electrical contractor	H.B.	hose bibb	MAX.	maximum	Q.T.	quarry tile	SUSP.	suspended
&	and	C.H.	ceiling height	E.J.	expansion joint	H.C.	hollow core	MBR.	member	Q.I.	quality tile	SW.	switch
_	angle	C.I.	cast iron	E.W.C.	electric water cooler	H.M.	hollow metal	MECH.	mechanic (al)	R.	riser, radius	SYM.	symmetry (ical)
	at	C.J.	control joint or	EA.	each	H.P.	horsepower	MED.	medium	R.A.	return air		
@			construction joint	ELAS.	elastometric	HDW.	hardware	MEMB.	membrane	R.C.P.	reinforced concrete pipe	T&B.	top and bottom
မ	centerline	C.M.T.	ceramic mosaic tile	ELEC.	electric (al)	HDWD.	hardwood	MTL.	metal	R.D.	roof drain	T&G.	tongue and groove
-	channel	C.M.U.	concrete masonry unit	ELEC. CAB	. electric cabinet	HORIZ.	horizontal	MEZZ.	mezzanine	R.H.	right hand	T.	tread
L 	di d	C.T.	ceramic tile	ELEV.	elevator, elevation	HT.	height	MFGR.	manufacture (er)	R.O.	rough opening	T.C.	top of curb
Ø	diameter or round	C. to C.	center to center	EMER.	emergency	HVAC.	heating/ventilating	MIN.	minimum	R.O.W.	right of way	T.P.	top of pavement
\perp	perpendicular	CAB.	cabinet	ENCL.	enclose (ure)	TIVAC.	/air conditioning	MISC.	miscellaneous	REBAR.	rienforcing bar	T.P.D.	toilet paper dispenser
P	plate	CARP.	carpet	ENTR.	entrance	HWY.	highway	MOD.	modified	REC.	recessed	T.W.	top of wall
	•	CEM.	cement	EQ.	equal	11001.	Iligilway	MTD.	mounted	RECT.	rectangular	TEL.	telephone
#	pound or number	CER.	ceramic	EQUIP.	equipment	I.P.S.	iron pipe size	MUL.	mullion	REF.	reference	TEMP.	tempered or temperature
		CLG.	ceiling	ESTB.	establish	I.F.S. ID.	inside diameter	N.	north	REFR'G.	refrigerator	TERZ.	terrazzo
		CLO.	closet	EXP.	expansion	ID. IN.	inches	N.I.C.	not in contract	REG.	register	THK.	thick (ness)
		CLR.	clear	EXSTG.	existing	IN. INCL.		N.T.S.	not to scale	REINF.	reinforced	THRES.	threshold
A.B.	anchor bolt	CNTR.	counter	EXT.	exterior	INCL.	include (ed) (sion)	NO. or #	number	REQ.	required	TLT.	toilet
A.F.F.	above finish floor	COL.	column			_	insulation (ed)	NO. or # NOM.	nominal	RESIL.	resilient	TV.	television
A.P.	access panel	COMP.	composition	F.B.O.	furnished by others	INT'R.	interior	NOW.	попша	RET.	return	TYP.	typical
A.C.T.	acoustical tile ceiling	CONC.	concrete	F.D.	floor drain	INV.	invert	O. to O.	out to out	REV.	revisions(s), revised		
A/C.	air conditioning	CONF.	conference	F.E.	fire extinguisher	INV. EL.	invert elevation	O.C.	on center (s)	RFG.	roofing	U.O.N.	unless otherwise noted
ABV.	above	CONN.	connection	F.E.C.	fire extinguisher cab.	JAN.	janitor	O.D.	outside diameter	RM.	room	UNFIN.	unfinished
ACOUS.	acoustical	CONSTR.	construction	F.H.C.	fire hose cabinet	JT.	joint	OFF.	office			UTIL.	utility
ADD.	addendum	CONT.	continuous	F.O.C.	face of concrete		•	O.H.	opposite hand	S-P.	single-ply		í l
ADJ.	adjacent or adjustable	CONTR.	contractor	F.O.F.	face of finish	K.D.	kiln dried or knock down	OPN'G.	opening	S.	south	V.B.	vinyl base
AGG.	aggregate	CORR.	corridor	F.O.S.	face of studs	KIT.	kitchen	OPP.	opposite	S.C.	solid core	V.C.T.	vinvl composition tile
AL.	aluminum	CSMT.	casement	F.S.	full size	KO.	knockout	OUT.	outvert	S.C.J.	structural control joint	V.I.F.	verify in field
ALT.	alternate	CTR.	center	F.T.F.	face to face			OZ.	ounce	S.D.	soap dispenser or storm	V.F.	vinyl fabric
ANOD.	anodize	CTSK.	countersink (sunk)	FDN.	foundation	L.	left, length		34.133		drain	V.T.	vinyl tile
APPROX.	approximate	D.	diameter	FIN.	finish (ed)	L.H.	left hand	P.C.	plumbing contractor	S.N.D.	sanitary napkin dispenser	VW.F.	vinyl wall fabric
APT.	apartment	D. D.F.	diameter	FL.	floor (ing)	L.L.	live load	P.C.F.	pounds per cubic foot	S.N.R.	sanitary napkin receptacle	VENT.	ventilating
ARCHT.	architect (ural)		drinking fountain	FLASH'G.	flashing	L.P.	low point	P.L.F.	pounds per lineal foot	S.S.	stainless steel	VERT.	vertical
AUTO.	automatic	D.H.	double hung	FLUOR.	fluorescent	L.R.	living room	P.LAM.	plastic laminate	S.T.C.	sound transmission	VEST.	vestibule
AVG.	average	D.L.	dead load	FRPF.	fireproof (ing)	L.W.	lightweight	P.S.F.	pounds per square foot		classification	VOL.	volume
B.U.R.		DBL.	double	F.P.W.H.	freeze proof wall hydrant	LAB.	laboratory	P.S.I.	pounds per square inch	S4S.	surfaced 4 sides	VOL.	Volume
	built-up roofing	DEM.	demolish, demolition	FT.	foot or feet	LAM.	laminate (d)	P.T.D.	paper towel dispenser	SAN.	sanitary	W.	west, women
BD.	board	DEPT.	department	FTG.	footing	LAV.	lavatory	P.T.R.	paper towel receptacle	SCHED.	schedule	W.C.	water closet
BEV.	beveled	DIAG.	diagonal, diagram	FURN.	furnish	LT.	light	P.T.	pressure treat (ed)	SECT.	section	W.F.	wide flange
BITUM.	bituminous	DIFF.	diffuser	FURR.	furring	LTG.	lighting	PLAS.	plaster	SFTWD.	softwood	W.I.	wrought iron
BLDG.	building	DIM.	dimension	FUT.	future	LVR.	louver	PLYWD.	plywood	SHT.	sheet	W.W.F.	welded wire fabric
BLK.	block	DMT.	demountable	F.V.	field verify			PNL.	panel	SIM.	similar	W/	with
BLKG.	blocking	DN.	down	1 . V .	neid verify	M.C.	medicine cabinet or	PNT(d).	paint (ed)	SPEC.	specification	W/O	without
BM.	beam or bench mark	DO.	door opening	G.B.	grab bar		mechanical contractor	PR. `´	pair	SQ.	square	WD.	wood
BR.	bedroom	DR.	door	G.C.	general contractor	M.H.	manhole	PT.	point	SQ. FT.	square foot	WDW.	window
BRCG.	bracing	DS.	downspout	GA.	gage, gauge	M.O.	masonry opening	PTD/R.	combination paper towel	STD.	standard	WP.	waterproofing
BRG.	bearing	DTL.	detail	GALV.	galvanized	MACH.	machine		dispenser & receptacle	STL.	steel	WSCT.	waterproofing
BSMT.	basement	DWG.	drawing	GL.	glass, glazing	MAINT.	maintenance	PTN.	partition	STOR.	storage	WT.	weight
BTW.	between	DWR.	drawer	GR.	grade	MAS.	masonry	PVC.	polyvinyl chloride	STRUC.	structure (al)	۷V I.	weignt
C.B.	catch basin	E.	east	GYP.	gypsum	MATL.	material (s)	PVMT.	pavement	SURF.	surface	YD.	yard
				U	371-52	.,,, .,		. • .•	r = 1 = 11 = 11	55.41.	22.7400		,

MATERIAL DESIGNATIONS

	EARTH	FINISHED WOOD
	GRAVEL	PLYWOOD
4.	CONCRETE	ROUGH WOOD FRAMING / BLOCKIN
	PLASTER,SAND,GROUT, GYPSUM	BATT INSULATION
	BRICK	RIGID INSULATION
	CMU	ACOUSTICAL TILE
	STEEL	CARPET

SYMBOLS DETAIL NUMBER 1H -SHEET NUMBER SECTION REFERENCE COLUMN GRID DESIGNATION WINDOW\LOUVER\OTHER OPENING EXTERIOR ELEVATION REFERENCE NEW SPOT ELEVATION 2F DETAIL REFERENCE / EXISTING SPOT ELEVATION LARGE SCALE PLAN REFERENCE SPECIAL WALL TYPE 3F-A9.01 INTERIOR ELEVATION REFERENCE MILLWORK ELEVATION REFERENCE REFERENCE TO TYPICAL NOTE ROOM NAME 100 ROOM NAME & NUMBER

TRUE NORTH PLAN NORTH

ARCHITECT

STITCH design shop 630 N. Liberty Street Winston-Salem, NC 27101 336.701.0130

CIVIL / LANDSCAPE

STIMMEL Associates, P.A. 601 Trade Steet #200 Winston-Salem, NC 27101

STRUCTURAL

SELECT Engineering 1250 Revolution Mill Drive #143 Greensboro, NC 27405 978.793.2297





CONSTRUCTION DOCUMENTS





601 N. TRADE STREET, SUITE 200 WINSTON-SALEM, NC 27101 P: 336.723.1067 www.stimmelpa.com

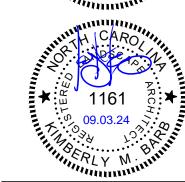
SEALS: ASSOCIATED SEAL

SEAL

SEAL

ORPORATES

ORPORATES



PROJECT:

Patriots Park
721 Ponderosa Rd, Cameron, NC 28326

CLIENT:

REVISIONS:

DEVON LEONARD STITCH DESIGN SHOP 350 LIBERTY STREET WINSTON-SALEM, NC 27101

09/03/24

DDAMAL	KMD DI CC

DRAWN: KMB, DJ, 0

JOB. NO: 24-0

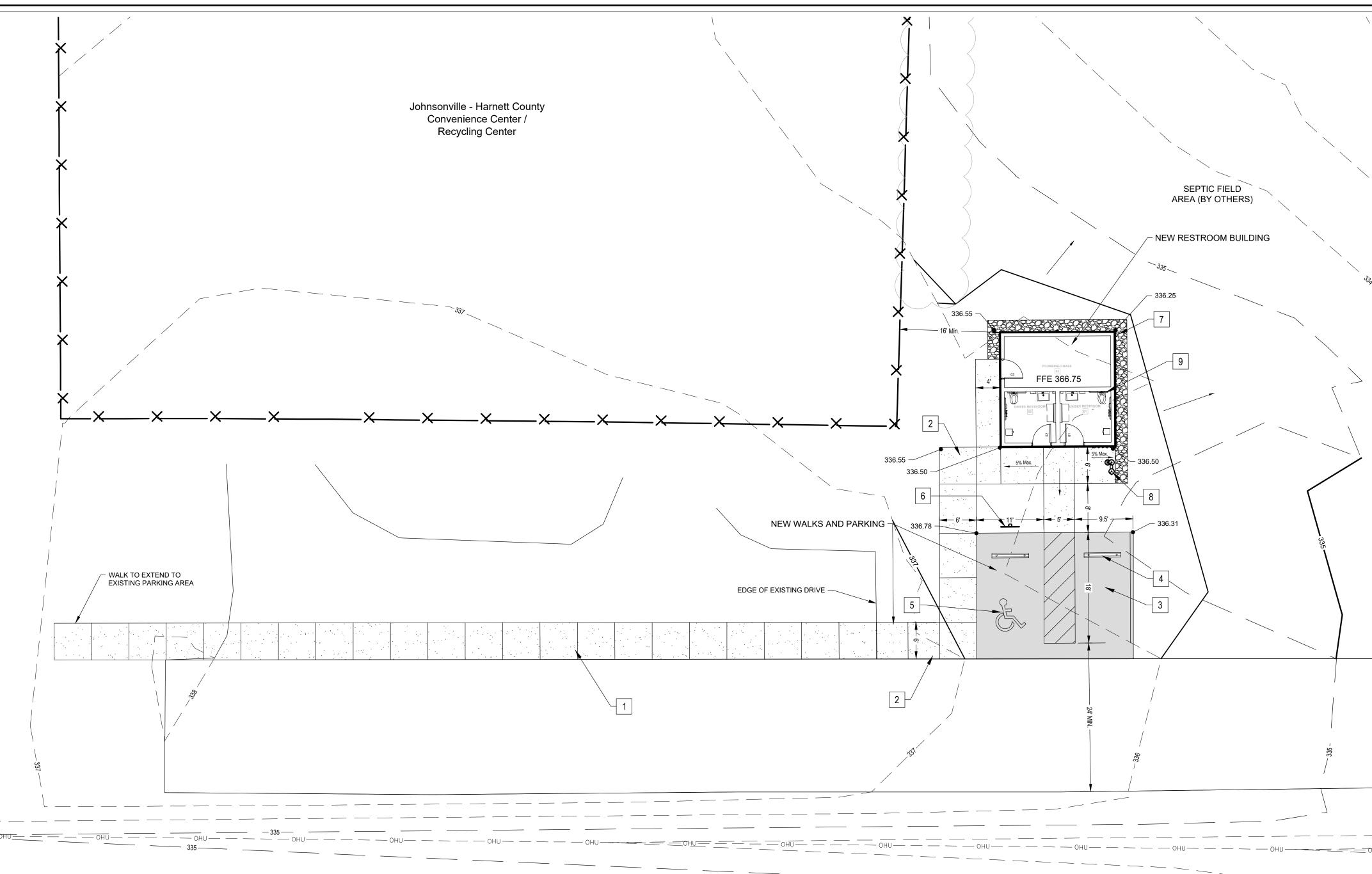
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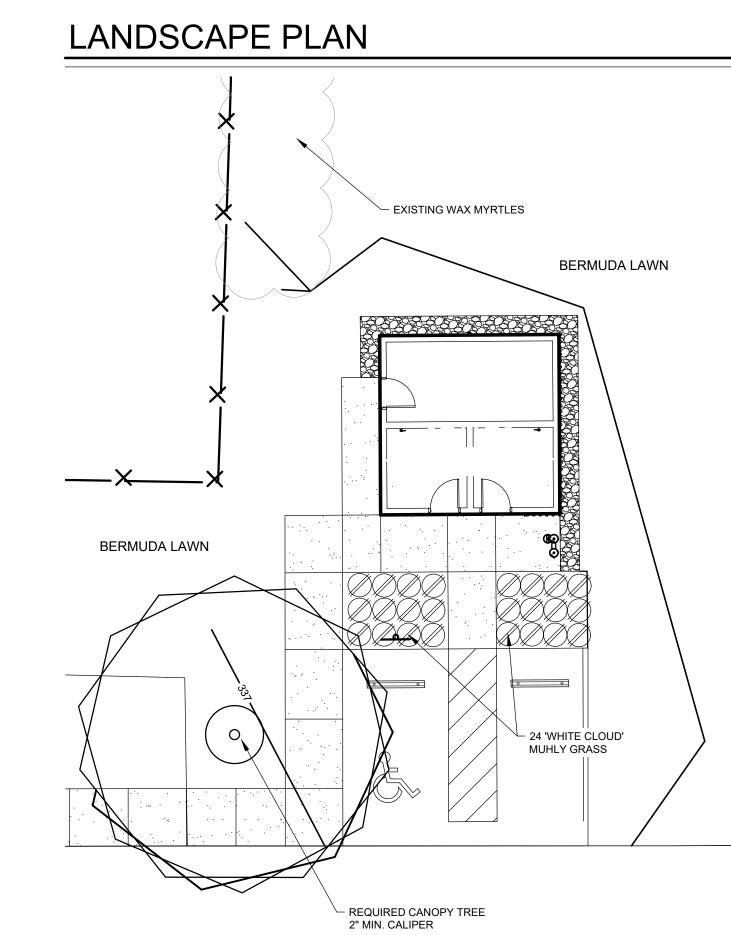
EXISTING CONDITIONS

SCALE: AS NOTED SHEET NO.:

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SITE - GRADING PLAN





SITE REFERENCE NOTES:

- 1 HEAVY DUTY CONCRETE WALK SEE DET #1, SHEET C-6.00
- 2 STANDARD CONCRETE WALK, FLUSH WITH ASPHALT PAVING SEE DET #2, SHEET C-6.00
- 3 ASPHALT PAVING SEE DET #3, SHEET C-6.00
- 4 CONCRETE WHEELSTOP
- SEE DET #4, SHEET C-6.00
- 5 HC PARKING SPACE SEE DET #5, SHEET C-6.00
- 6 HC PARKING SIGNAGE
- 6 SEE DET #6, SHEET C-6.00
- 7 3-5" SIZE RIVER STONE GRAVEL LIGHT COLORS WITH 5" METAL EDGING. SEE DET #7, SHEET C-6.00
- 8 MOST DEPENDABLE FOUNTAIN, MODEL 440 SSM
- 9 NEW RESTROOMS BUILDING, SEE ARCHITECTURAL DRAWINGS

GENERAL NOTES:

FURTHER CONSTRUCTION.

GENERAL CONTRACTOR TO:

- VISIT SITE AND BRING TO THE OWNER'S REPRESENTATIVE ATTENTION IN WRITING ANY PROBLEMS OR DISCREPANCIES WITH SITE OR PROJECT PRIOR TO BIDDING AND CONSTRUCTION.
- 2. COORDINATE WITH THE OWNER FOR PHASING OF CONSTRUCTION. INSURE HIGH LEVEL OF SAFETY DURING ALL PHASES OF CONSTRUCTION.
- 3. CHECK ALL "VERIFY" DIMENSIONS NOTED ON PLANS. REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE IN WRITING PRIOR TO ANY
- 5. OBTAIN ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO: BUILDING, GRADING, UTILITY, EROSION CONTROL, LAND DISTURBANCE, RIGHT OF WAY ENCROACHMENT, PUBLIC WATER AND/OR SEWER EXTENSION AND OCCUPANCY.
- 6. KEEP ALL PLANTING AND GRASS AREAS FREE OF DEBRIS, STONES, CONSTRUCTION MATERIALS, ETC.
- 7. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND UTILITIES SHOWN ON SITE PLAN. UTILITIES SHOWN ON SITE PLAN ARE BASED ON THE SURVEY PROVIDED BY OTHERS MAY NOT BE ALL INCLUSIVE. CONTACT ULOCO OR OTHER APPROPRIATE UTILITY LOCATION SERVICE FOR UTILITY IDENTIFICATION PRIOR TO ANY WORK.
- 8. PATCH/REPAIR STREETS, STRUCTURES, ETC. AS NECESSARY AFTER CONNECTION OF PROPOSED UTILITIES.
- COORDINATE ANY CONDUIT/IRRIGATION SLEEVES PRIOR TO INSTALLATION OF PAVEMENT
- 10. COORDINATE SITE LIGHTING WITH SITE LAYOUT AND ARCHITECTURAL PLANS.

PLANT LIST

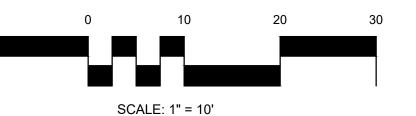
PLANT L	_IST							
CODE	COUNT	COMMON_NAME	BOTANICAL_NAME	CALIPER	HEIGHT	SPREAD	SPACING	COMMENTS
MG	24	White Muhly Grass	Muhlenbergia capillaris 'White Cloud'		15-18"	12-15"	2.5' o.c.	
OGM	1	'October Glory' Maple	Acer rubrum 'October Glory'	2 5_3"	12-1/1			BB Specimen Fall Red Leaves

SURVEY DISCLAIMER:

DATED: MAY 9, 2024

THE BOUNDARY AND TOPOGRAPHIC INFORMATION HEREIN IS FROM SURVEY INFORMATION SUPPLIED BY:
SMITH GARDNER ENGINEERS
14 N. BOYLAN AVENUE, RALEIGH NC 27603, TEL:(919) 828-0577

North





Stimpel
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
LAND PLANNING

601 N. TRADE STREET, SUITE 200
WINSTON-SALEM, NC 27101
P: 336.723.1067
www.stimmelpa.com

SEALS:

ASSOCIATE
OR PORA

OR

PROJECT:

atriots Park
Ponderosa Rd, Cameron, NC 28326

CLIENT:

DEVON LEONARD STITCH DESIGN SHOP 350 LIBERTY STREET WINSTON-SALEM, NC 27101

REVISIONS:

09/03/24

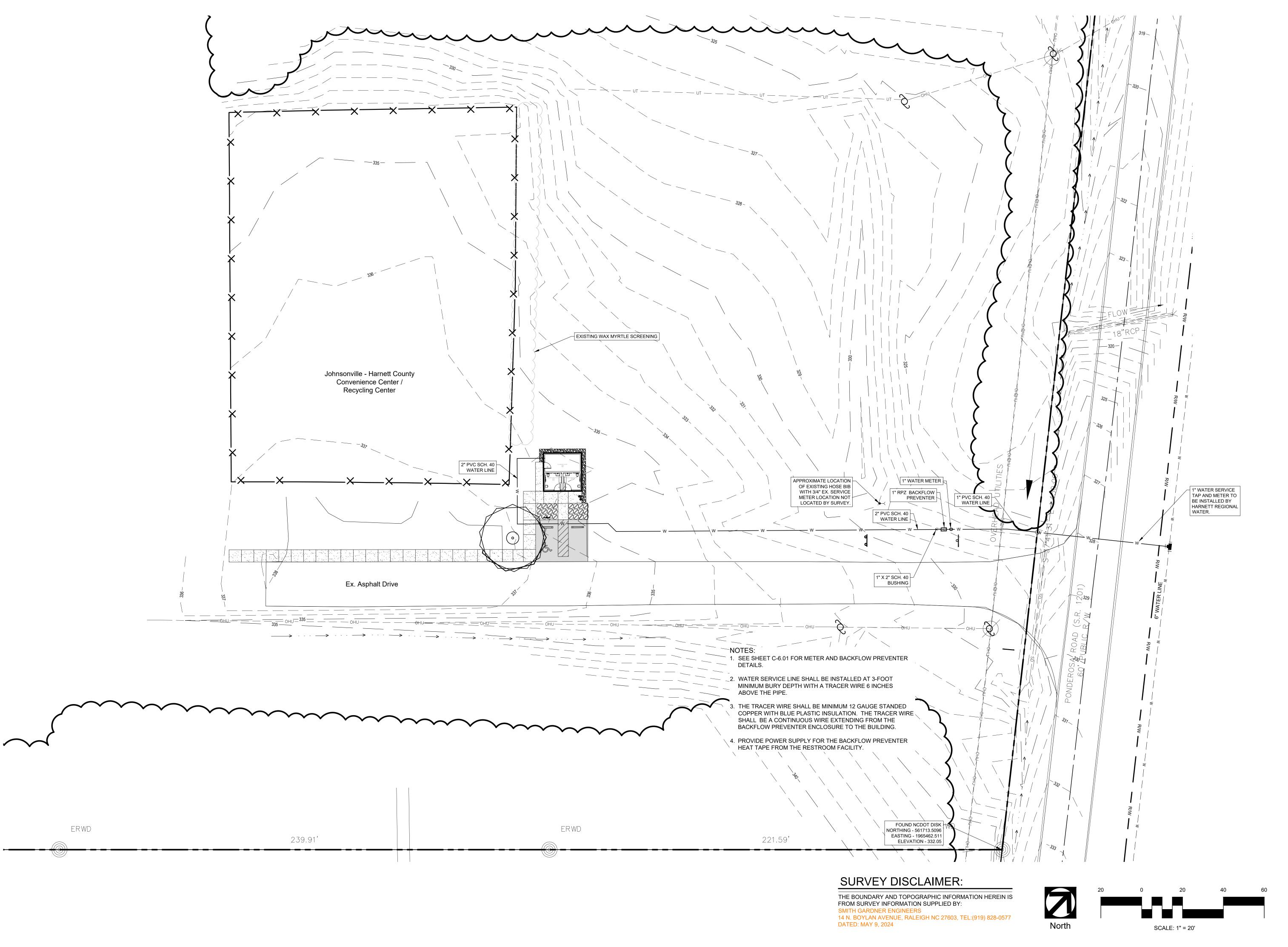
DRAWN: KMB, DJ, CC
JOB. NO: 24-015
SHEET TITLE:

SHEET TITLE:
SITE,
GRADING, &

LANDSCAPE PLAN

CALE: AS NOTED
HEET NO.:

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Stimme

LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
LAND PLANNING

601 N. TRADE STREET, SUITE 200

WINSTON-SALEM, NC 27101

www.stimmelpa.com

P: 336.723.1067

SEALS:

NCBEES CERT. NO.: C-1347

CARO

SEAL

14985

09/13/2024

PROJECT:

Patriots Park
721 Ponderosa Rd, Cameron, NC 28326

CLIENT:

REVISIONS:

DEVON LEONARD STITCH DESIGN SHOP 350 LIBERTY STREET WINSTON-SALEM, NC 27101

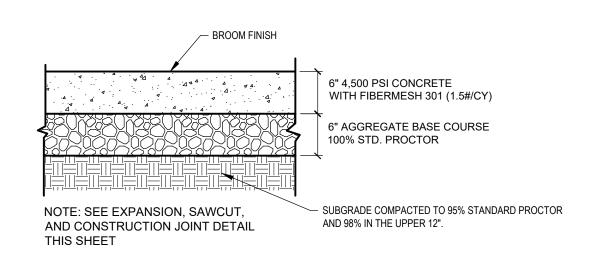
09/03/24

DRAWN: KMB, DJ, CC
JOB. NO: 24-015
SHEET TITLE:

WATER PLAN

SCALE: AS NOTED SHEET NO.:

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- 6' LONG CONCRETE CURB WITH 2 #5

SEE SITE PLAN FOR TYPE

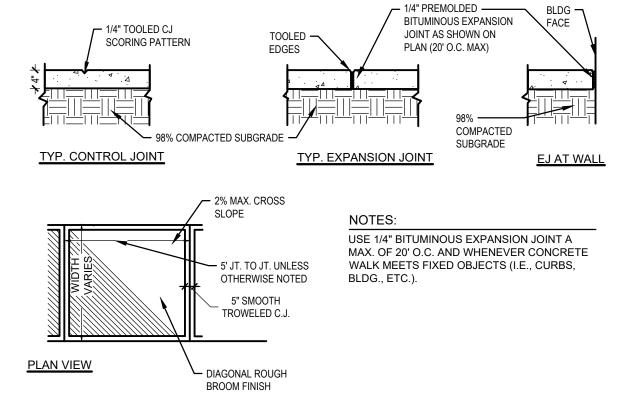
AGGREGATE BASE

COMPACTED SUBGRADE

4" DEEP DECORATIVE STONE MULCH

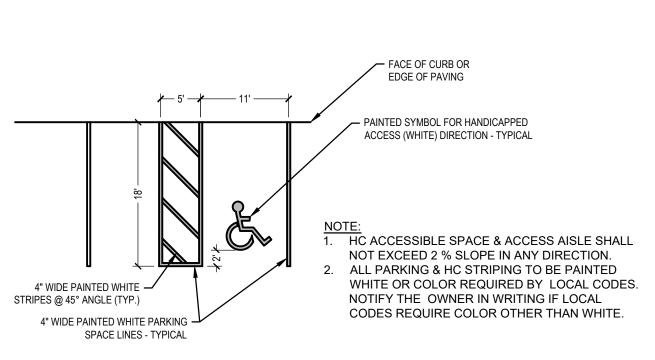
REBARS VERTICAL

2 #4 REBARS CONT.



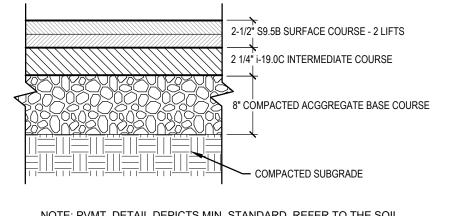






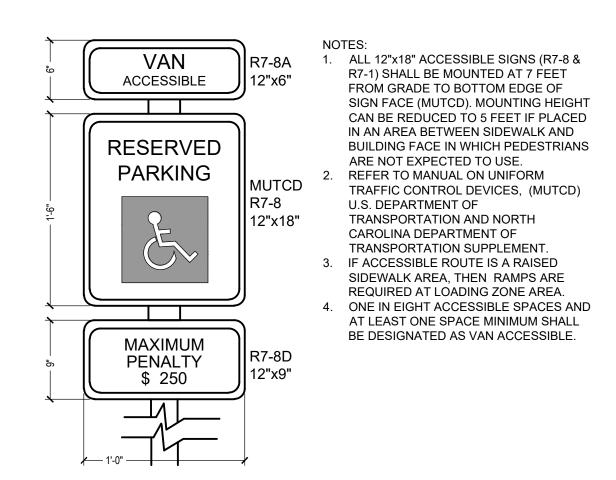






NOTE: PVMT. DETAIL DEPICTS MIN. STANDARD, REFER TO THE SOIL INVESTIGATION REPORT FOR MORE INFORMATION CONCERNING EXISTING ONSITE CONDITIONS AND MODIFICATIONS.









LANDSCAPE ARCHITECTURE

601 N. TRADE STREET, SUITE 200 WINSTON-SALEM, NC 27101

CIVIL ENGINEERING

www.stimmelpa.com

LAND PLANNING

P: 336.723.1067

SEALS:

PROJECT:

CLIENT:

DEVON LEONARD
STITCH DESIGN SHOP
350 LIBERTY STREET

DATE: 09/03/2 REVISIONS:

WINSTON-SALEM, NC 27101

DRAWN: KMB, DJ, CC
JOB. NO: 24-015

SITE DETAILS

SCALE: AS NOTED SHEET NO.:

C-6.00

© STIMMEL ASSOCIATES, P.A.

PLANT BED OR LAWN AREA

SEE PLAN FOR LIMITS, COLOR AND PROVIDER

4 OZ. NON-WOVEN NEEDLE PUNCHED
GEOTEXTILE FABRIC UNDERLINER,
OVERLAP METAL EDGING (TYP).

EXISTING SUBGRADE

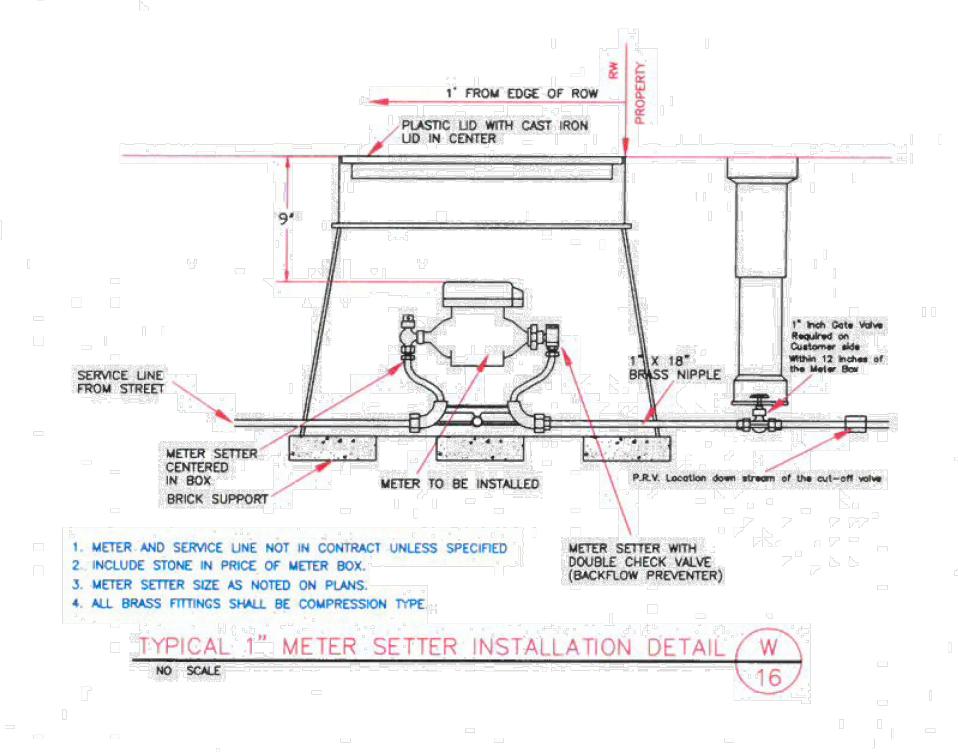
7 STONE BORDER AND EDGING

SCALE: NTS

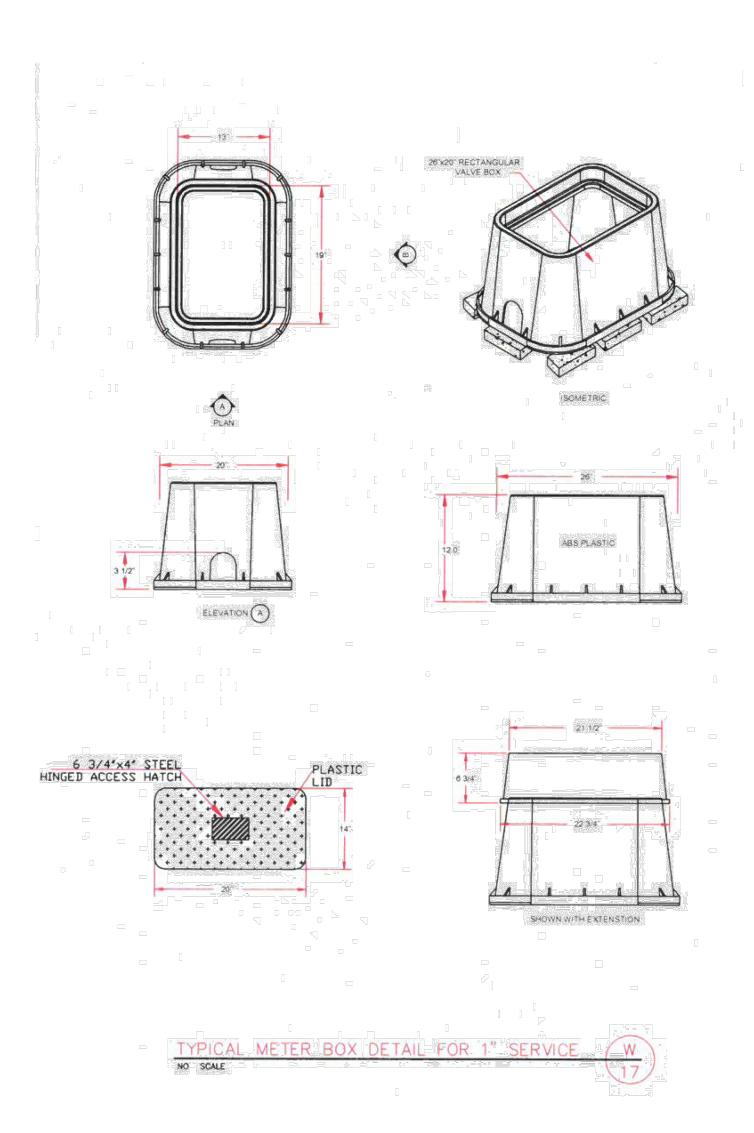
1/8" X 5" MIN. METAL EDGING -

_ EDGE OF

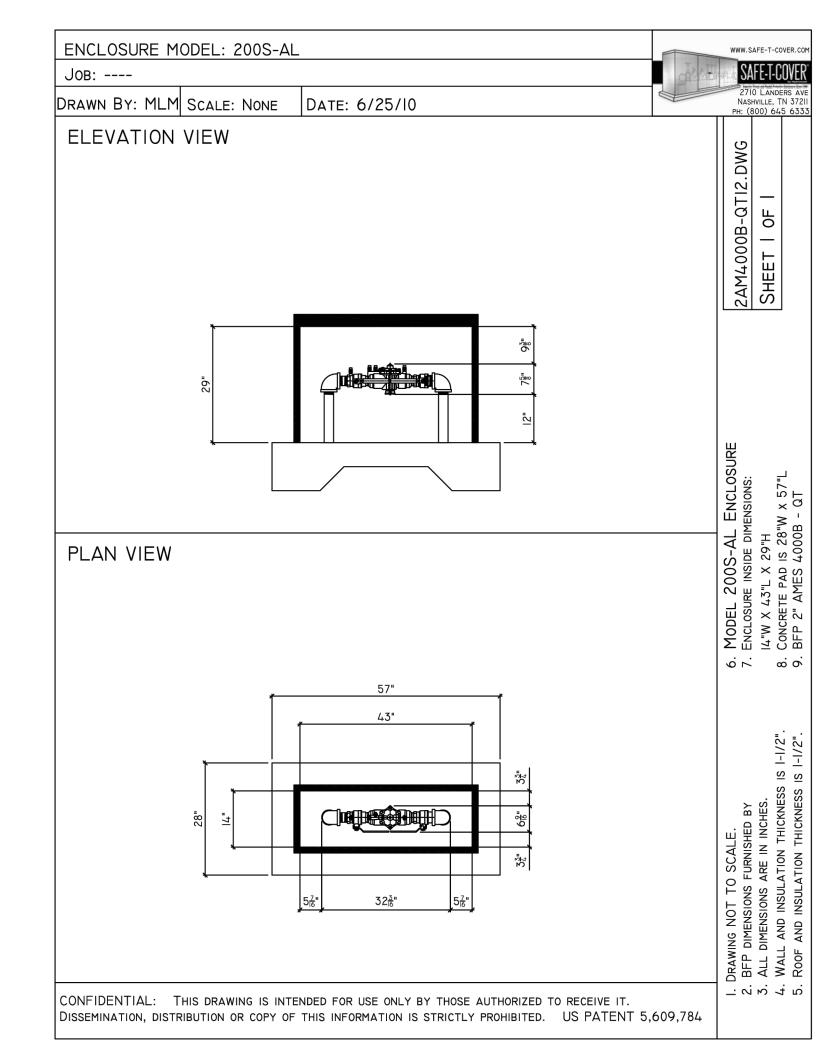
PAVEMENT



1" WATER METER



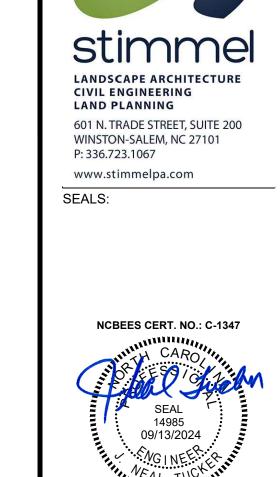
1" WATER METER BOX
SCALE: NTS



3 2" RPA BACKFLOW PREVENTER SCALE: NTS

1. BACKFLOW PREVENTER SHALL BE A 1-INCH DEVICE IN ACCORDANCE WITH HARNETT REGIONAL WATER STANDARDS AND SPECIFICATIONS. THIS DETAIL IS PROVIDED TO REPRESENT THE GENERAL REQUIREMENTS FOR THE BACKFLOW PREVENTER, ENCLOSURE AND CONCRETE PAD. THE ENCLOSURE SIZE SHALL BE AS SHOWN IN THIS

2. BACKFLOW PREVENTER SHALL BE WRAPPED WITH HEAT TAPE TO PREVENT FREEZING.



PROJECT:

Patriots P. 721 Ponderosa Rd, C.

CLIENT:

REVISIONS:

DEVON LEONARD STITCH DESIGN SHOP 350 LIBERTY STREET WINSTON-SALEM, NC 27101

09/03/24

KMB, DJ, CC JOB. NO: 24-015 SHEET TITLE:

> WATER **DETAILS**

AS NOTED C-6.01 © STIMMEL ASSOCIATES, P.A.

Floor Construction O HR O HR O HR			
Including supporting beams and joists Floor Ceiling Assembly Columns Supporting Floors Roof Construction, including supporting beams and joists Roof Construction, including supporting beams and joists Roof Celling Assembly Columns Supporting Roof O-HR O-HR O-HR O-HR O-HR O-HR O-HR O-HR O-HR			
and joists			
FIGURE ASSEMBLY O HR	+		
Columns Supporting Floors Roof Construction, including supporting beams and joists Roof Colling Assembly			
Roof Construction, including supporting beams and joists Roof Celling Assembly OHR OHR OHR OHR OHR OHR OHR Columns Supporting Roof OHR OHR OHR OHR OHR Columns Supporting Roof OHR	1		
Supporting beams and joists O HR O HR Columns Supporting Roof O HR O HR Shaft Enclosures - Exit N/A N/A	+		
Column Supporting Roof			
Columns Supporting Roof	1		
Shaft Enclosures - Exit			
Shaft Enclosures - Other N/A			
Corridor Separation			
Decupancy/Fire Barrier Separation			
Decupancy/Fire Barrier Separation	1		
Perty/Fire Wall Separation			
Smoke Barrier Separation Ni/A Ni/			
Smoke Partition			
PERCENTAGE OF WALL OPENING			
PERCENTAGE OF WALL OPENING			
PERCENTAGE OF WALL OPENING			
PERCENTAGE OF WALL OPENING (FEET) FROM PROPERTY LINES (PET) PROTECTION (PET) (PET) FROM PROPERTY LINES (PET) PROTECTION (PET) (PET) PROTECTION (PET) (PET) PROTECTION (PET) PROTECTION (PET) PROTECTION (PET) PROTECTION (PET) PROPERTY PLAN REQUIREMING PROPERTY PLAN REQUIREMENT (PET) PLAN REQUIREMENT (PE) PLAN R			
Fire Separation Distance (Feet) FROM Property Lines Safety Plan Sheet #: Al.02 Assumed and real property line locations (if not on the site plan) Exterior wall opening area with respect to distance to assumed property Occupancy Use for each area as it relates to occupant load calculation (1 Dead end lengths (1020.4) Clear exit widths for each exit door A separate schematic plan indicating where fire rated floor/ceiling and/o purposes of occupancy separation Location of doors with pain chardware (1010.1.10) Locat		•	'
Safety Plan Sheet #: ALOZ Fire and/or smoke rated wall locations (Chapter 7) Assumed and real property line locations (if not on the site plan) Extir sign locations (1013) Extracess travel distances (1017) Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1)) Dead end lengths (1020.4) Exterior of doors with panic hardware (1010.1.10) Location of doors with panic hardware (1010.1.10) Location of doors with delayed egress locks and the amount of delay (10 Location of doors with delayed egress locks and the amount of delay (10 Location of doors with delayed egress locks and the amount of delay (10 Location of doors with delayed egress locks and the amount of delay (10 Location of doors with delayed egress locks and the amount of delay (10 Location of doors with delayed egress locks and the amount of delay (10 Location of doors equipped with hold-open devices Location of emergency escape windows (1030) The square footage of each fire area (202) The square footage of each fire area (202) The square footage of each smoke compartment for Occupancy Classific Note any code exceptions or table notes that may have been utilized regard scanned to the stantage of the s		_	SHOWN ON P
CTABLE 705.8 No Lim		ACTUALS	(%)
LIFE SAFETY SYSTEM REQUIREMS Emergency Lighting: No			
LIFE SAFETY SYSTEM REQUIREMS Emergency Lighting: No Yes Signs: No Yes Smoke Detection Systems: No Yes Partial Carbon Monoxide Detection: No Yes Simoke Detection Systems: No Yes Partial Simoke Detection Systems: No Yes Partial Simoke Detection: No Yes LIFE SAFETY PLAN REQUIREMENT Fire and/or smoke rated wall locations (Chapter 7) Assumed and real property line locations (if not nthe site plan) Exterior wall opening area with respect to distance to assumed property Occupancy Use for each area as it relates to occupant load calculation (1 Occupant loads for each area Exit sign locations (1013) Exit access travel distances (1017) Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1)) Dead end lengths (1020.4) Dead end lengths (1020.4) Maximum calculated occupant load capacity each exit door can accomm Actual occupant load for each exit door A separate schematic plan indicating where fire rated floor/ceiling and/opurposes of occupancy separation Location of doors with panic hardware (1010.1.10) Location of doors with delayed egress locks and the amount of delay (10 Location of doors with delayed egress locks (1010.1.9.9) Location of doors with delayed egress locks (1010.1.9.9) Location of doors with delayed egress locks (1010.1.9.9) Location of doors with delayed egress locks that may have been utilized regard of each smoke compartment for Occupancy Classific Note any code exceptions or table notes that may have been utilized regard of each smoke compartment for Occupancy Classific Note any code exceptions or table notes that may have been utilized regard of each smoke compartment for Occupancy Classific Note any code exceptions or table notes that may have been utilized regard of each smoke compartment for Occupancy Classific Note any code exceptions or table notes that may have been utilized regardences	nit	N	No Limit
LIFE SAFETY SYSTEM REQUIREMS Emergency Lighting:		<u> </u>	
LIFE SAFETY SYSTEM REQUIREMS Emergency Lighting:			
LIFE SAFETY SYSTEM REQUIREMS Emergency Lighting:			
Emergency Lighting: Exit Signs: No Yes Smoke Detection Systems: No Yes Smoke Detection Systems: No Yes Smoke Detection Systems: No Yes LIFE SAFETY PLAN REQUIREMENT fee Safety Plan Sheet #: A1.02 Fire and/or smoke rated wall locations (Chapter 7) Assumed and real property line locations (if not on the site plan) Exterior wall opening area with respect to distance to assumed property Occupant loads for each area as it relates to occupant load calculation (1) Occupant loads for each area as it relates to occupant load calculation (1) Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1)) Dead end lengths (1020.4) Clear exit widths for each exit door Maximum calculated occupant load capacity each exit door can accomm Actual occupant load for each exit door A separate schematic plan indicating where fire rated floor/ceiling and/o purposes of occupancy separation Location of doors with panic hardware (1010.1.10) Location of doors with electromagnetic egress locks (1010.1.9.9) Location of doors with electromagnetic egress locks (1010.1.9.9) Location of doors equipped with hold-open devices Location of emergency escape windows (1030) The square footage of each fire area (202) The square footage of each smoke compartment for Occupancy Classific Note any code exceptions or table notes that may have been utilized regardence. ACCESSIBLE DWELLING UNITS (SECTION 1107)			
The square footage of each smoke compartment for Occupancy Classific Note any code exceptions or table notes that may have been utilized regard ACCESSIBLE DWELLING UNITS (SECTION 1107) ONIT TOTAL ACCESSIBLE ACCESSIBLE TYPE A TYPE A CLASSIFICATION UNITS UNITS UNITS UNITS UNITS	lines (705. Γable 1004 nodate base	ed on egress v	
		TYPE B UNITS	TOTAI ACCESSII UNITS PROVIDI
ACCESSIBLE PARKING (SECTION 1106)			

ALLOWABLE HEIGHT

40'

FIRE PROTECTION REQUIREMENTS

(W/______REDUCTION)

0 HR

0 HR

RATED PENETRATION RATED

REQ'D PROVIDED

0 HR 0 HR

Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

height of open parking garages must comply with Table 406.5.4

The maximum height of air traffic control towers must comply with Table 412.3.1.

Building Height in Feet (Table 504.3)²

including columns, girders

Bearing Walls

Exterior

North

East

South

Exterior walls

North

East

West

South

Interior walls and partit

Nonbearing Walls and

Building Height in Stories (Table 504.4)³

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE		WATER CLOSETS		URINALS		LAVATORIES		SHOWERS	DRINKING	FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE FEMALE UNISEX		/TUBS	REGULAR	ACCESSIBLE	
SPACE	EXIST'G										
	NEW	0	0	2		0	0	2		1	1
	REQ'D	1	1	0		1	1	0		1	1

SPECIAL APPROVALS

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

ENERGY SUMMARY

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the

Existing building envelope complies with code: No Yes (The remainder of this section is not applicable) Climate Zone: 3A 4A 5A

Method of Compliance: Energy Code Performance ☐ Prescriptive ASHRAE 90.1 Performance Prescriptive (If "Other" specify source here)_

THERMAL ENVELOPE (Prescriptive method only)

ENERGY REQUIREMENTS:

Roof/ceiling Assembly (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation: Skylights in each assembly: U-Value of skylight: total square footage of skylights in each assembly:

Exterior Walls (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation: Openings (windows or doors with glazing)

U-Value of assembly: Solar heat gain coefficient: projection factor: Door R-Values: Walls below grade (each assembly)

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

Description of assembly: U-Value of total assembly: R-Value of insulation: Floors slab on grade Description of assembly: U-Value of total assembly: R-Value of insulation:

Horizontal/vertical requirement:

slab heated:

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS STRUCTURAL DESIGN

(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (I_S) Seismic (I_E) Live Loads:

Ground Snow Load: Wind Load: Ultimate Wind Speed Exposure Category

SEISMIC DESIGN CATEGORY: A B C D Provide the following Seismic Design Parameters: Risk Category (Table 1604.5) I III III IV Site Classification (ASCE 7) A B C D E F Data Source: Field Test Presumptive Historical Data Basic structural system Bearing Wall Dual w/Special Moment Frame ☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel ☐ Moment Frame ☐ Inverted Pendulum

LATERAL DESIGN CONTROL: Earthquake Wind Wind SOIL BEARING CAPACITIES:

Field Test (provide copy of test report) Presumptive Bearing capacity _____ Pile size, type, and capacity

See Structural Drawings

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS MECHANICAL DESIGN

(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

summer dry bulb: Interior design conditions winter dry bulb: summer dry bulb: relative humidity: **Building heating load: Building cooling load:**

winter dry bulb:

Thermal Zone

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

Size category. If oversized, state reason.: List equipment efficiencies:

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN

(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code Performance ASHRAE 90.1 Performance Lighting schedule (each fixture type) lamp type required in fixture number of lamps in fixture ballast type used in the fixture number of ballasts in fixture total wattage per fixture total interior wattage specified vs. allowed (whole building or space by space) total exterior wattage specified vs. allowed Additional Efficiency Package Options (When using the 2018 NCECC; not required for ASHRAE 90.1)

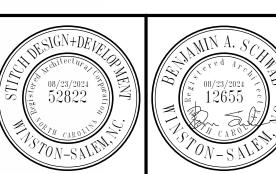
C406.2 More Efficient HVAC Equipment Performance C406.3 Reduced Lighting Power Density C406.4 Enhanced Digital Lighting Controls C406.5 On-Site Renewable Energy

C406.6 Dedicated Outdoor Air System C406.7 Reduced Energy Use in Service Water Heating

2018 NC Administrative Code and Policies Revised 6/15/2020



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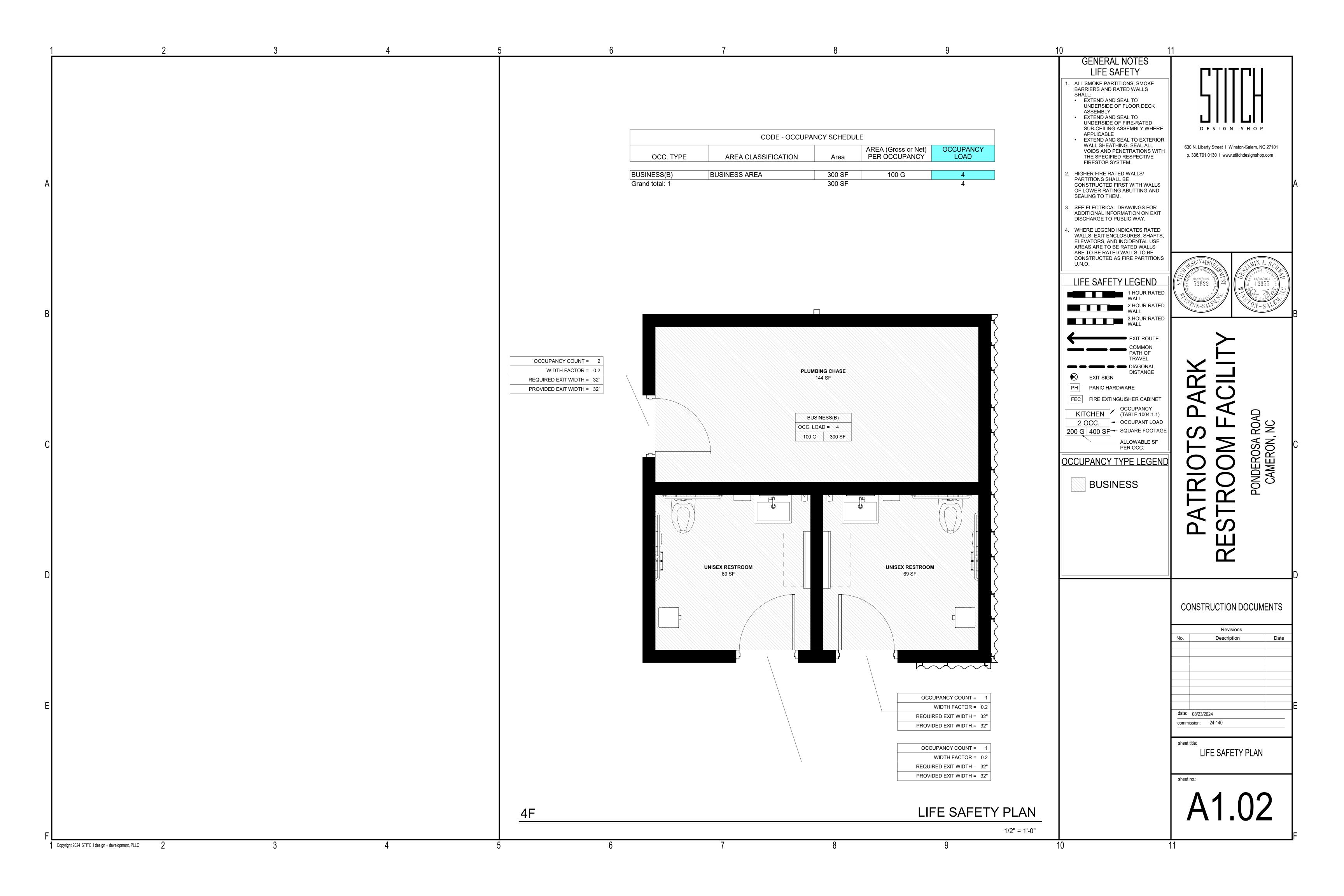


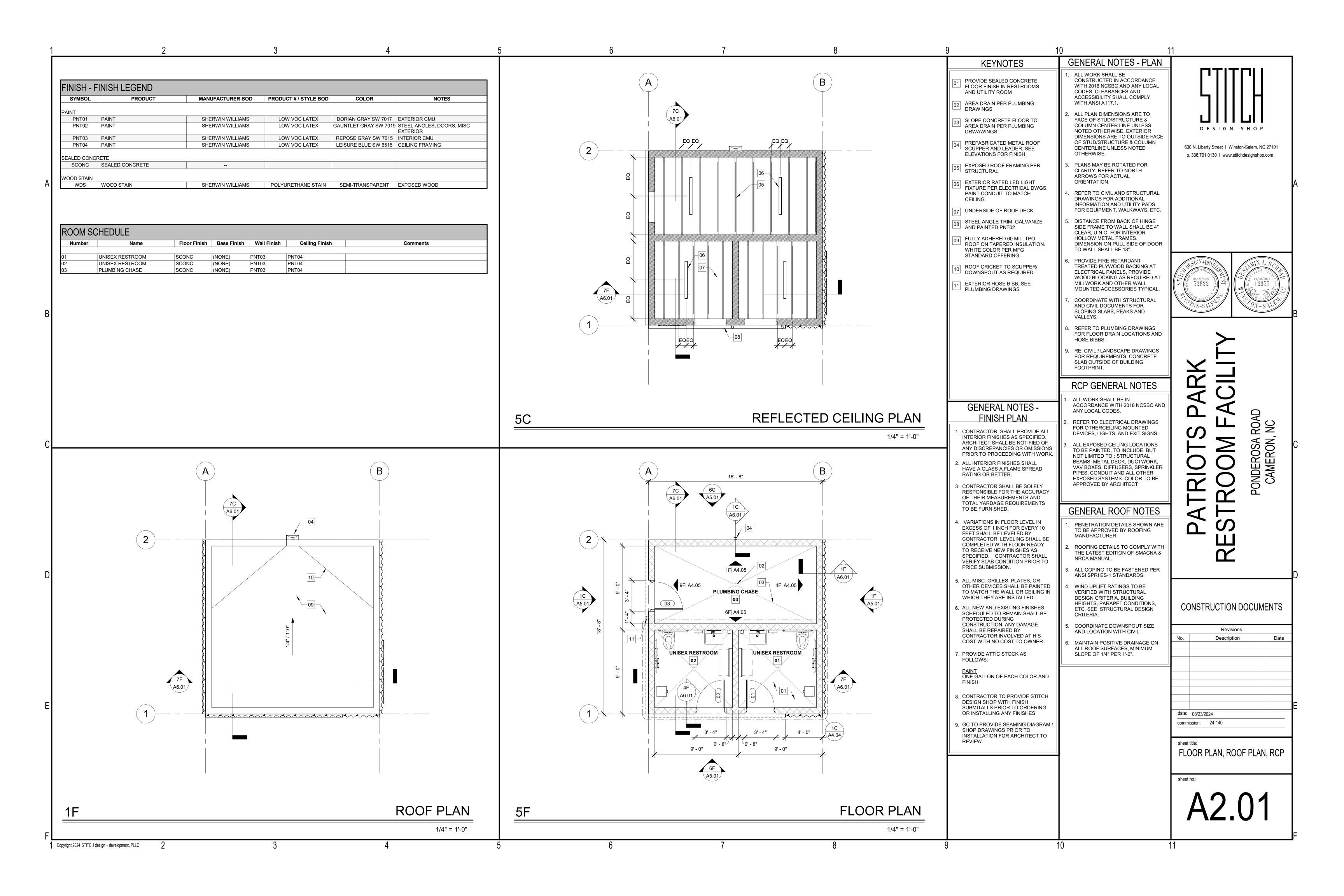
CONSTRUCTION DOCUMENTS

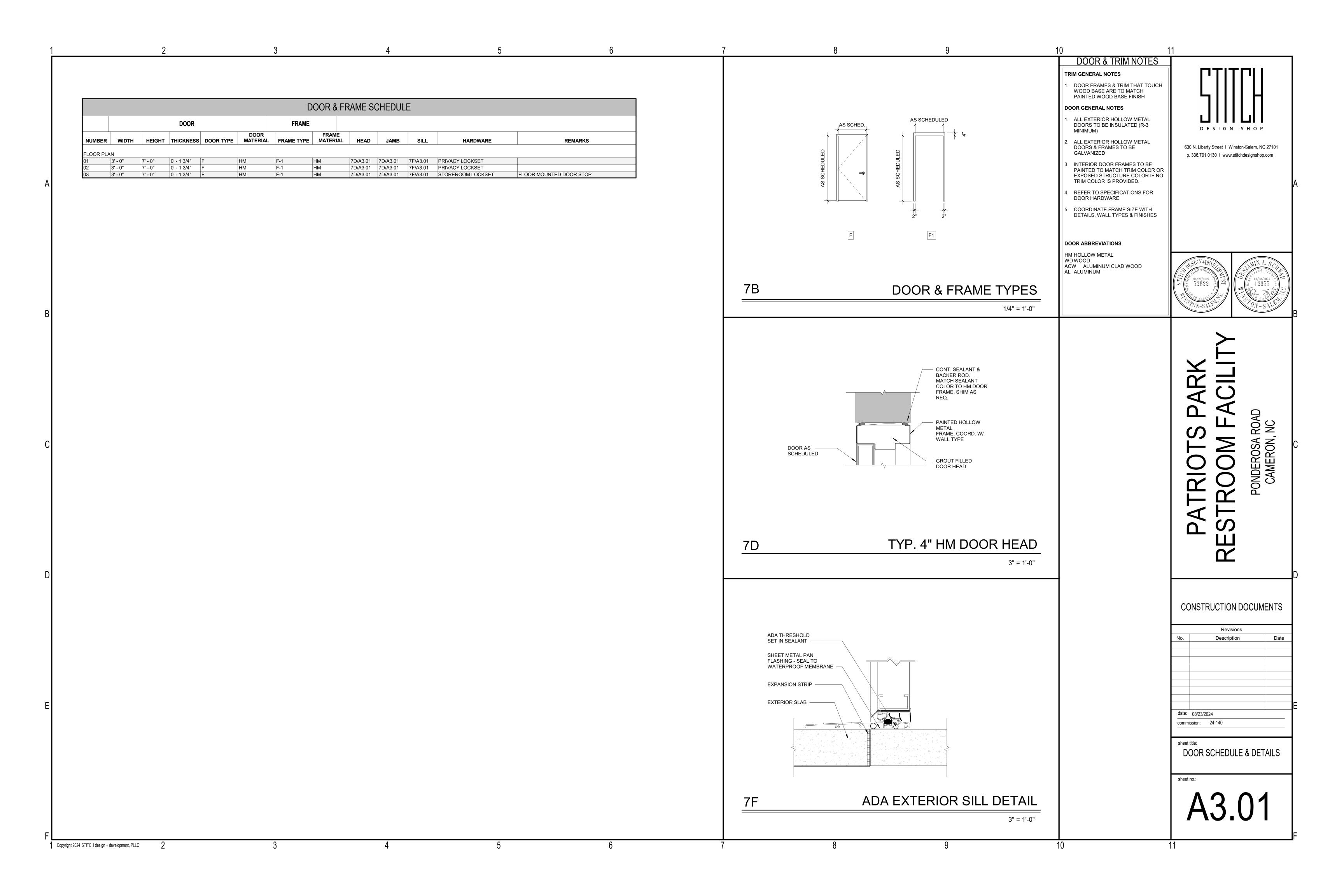
		Revisions	
No.		Description	Date
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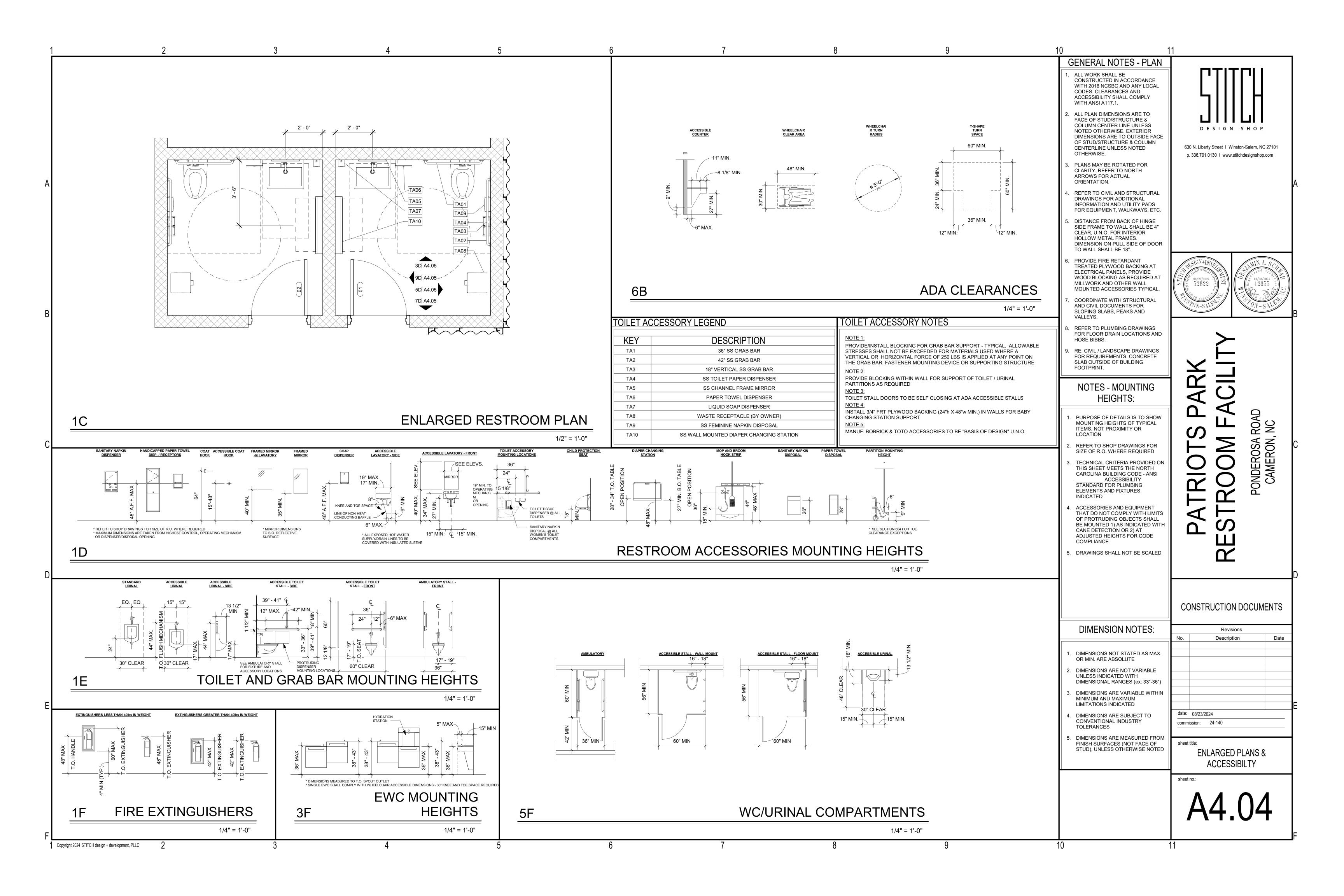
APPENDIX B

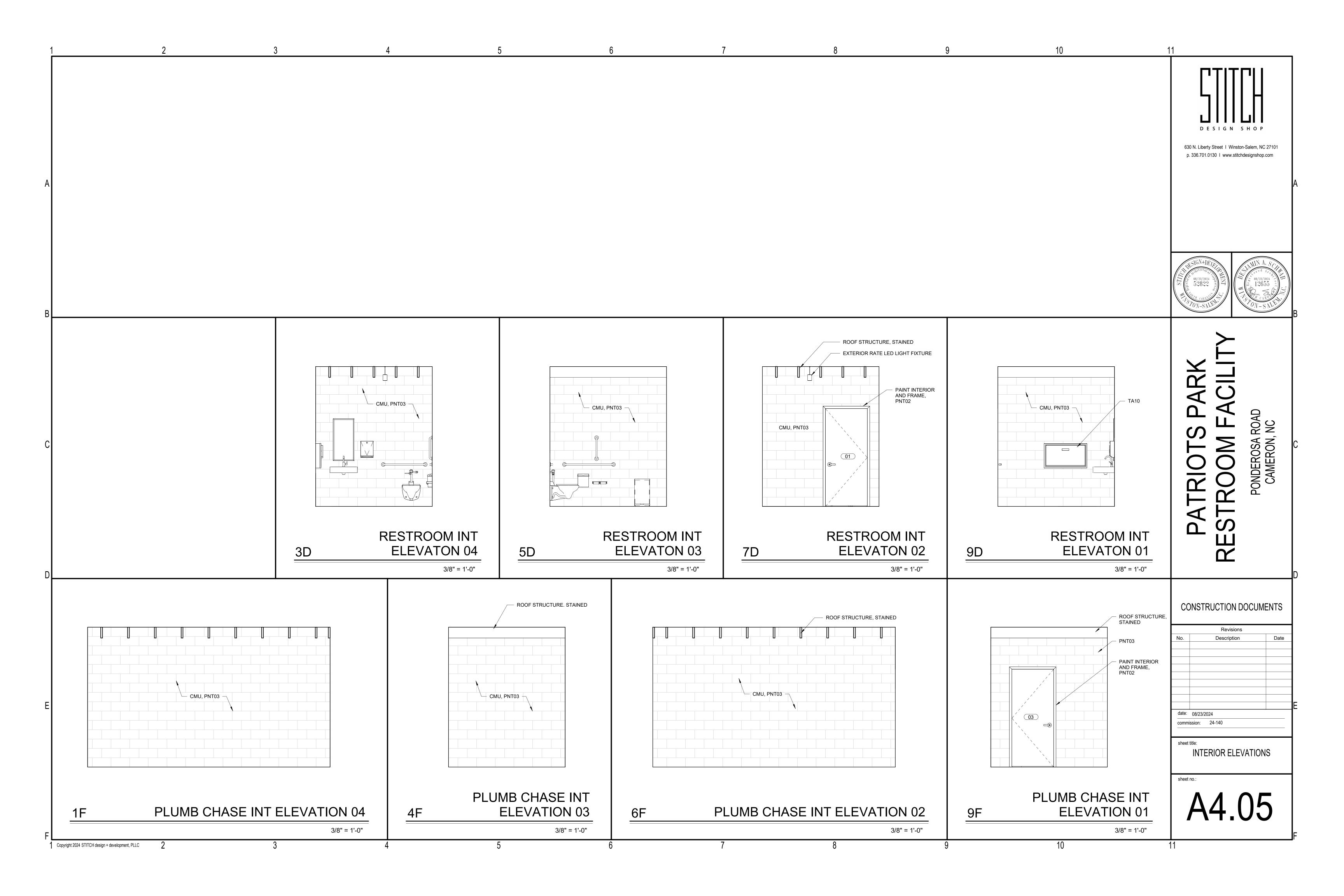
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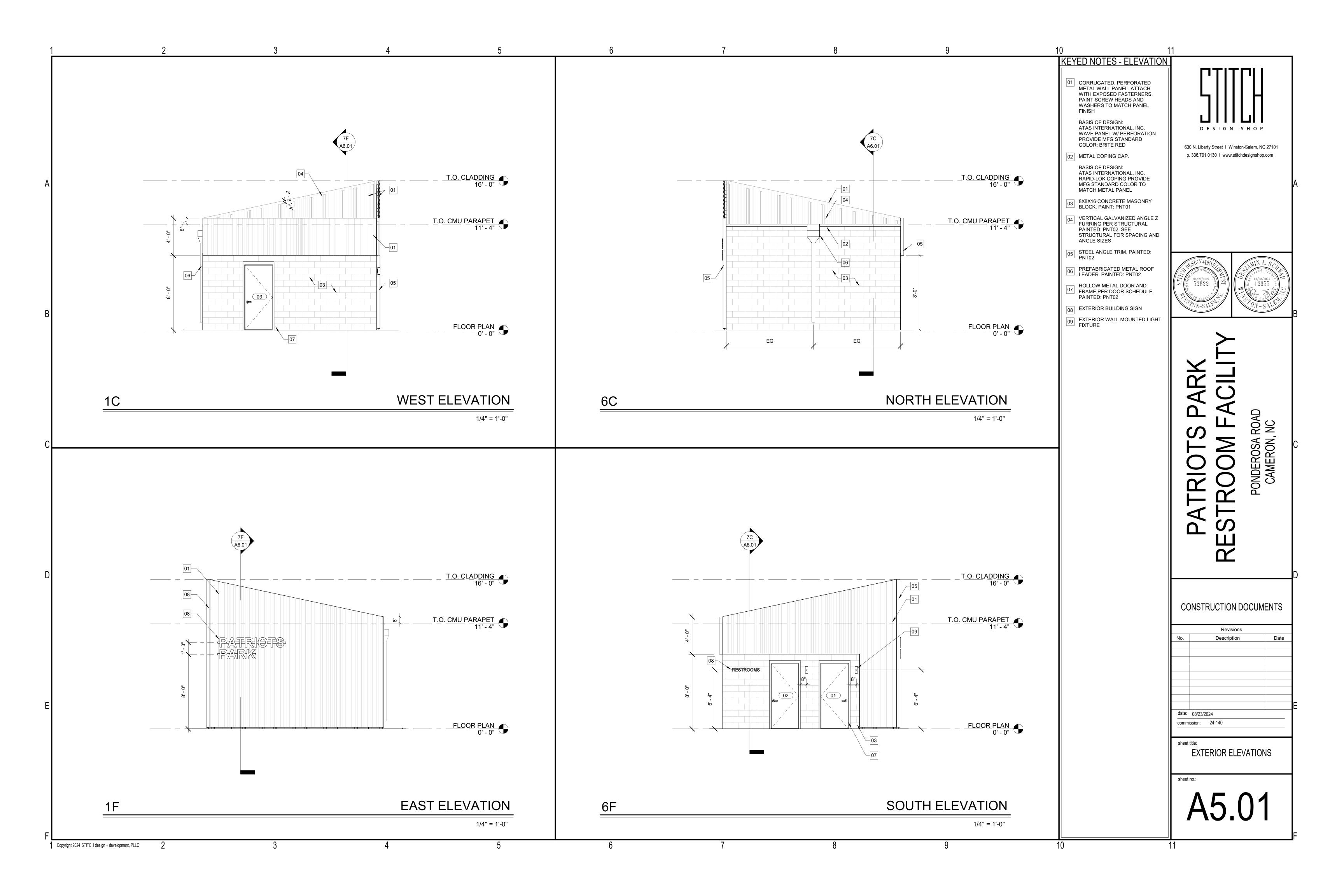


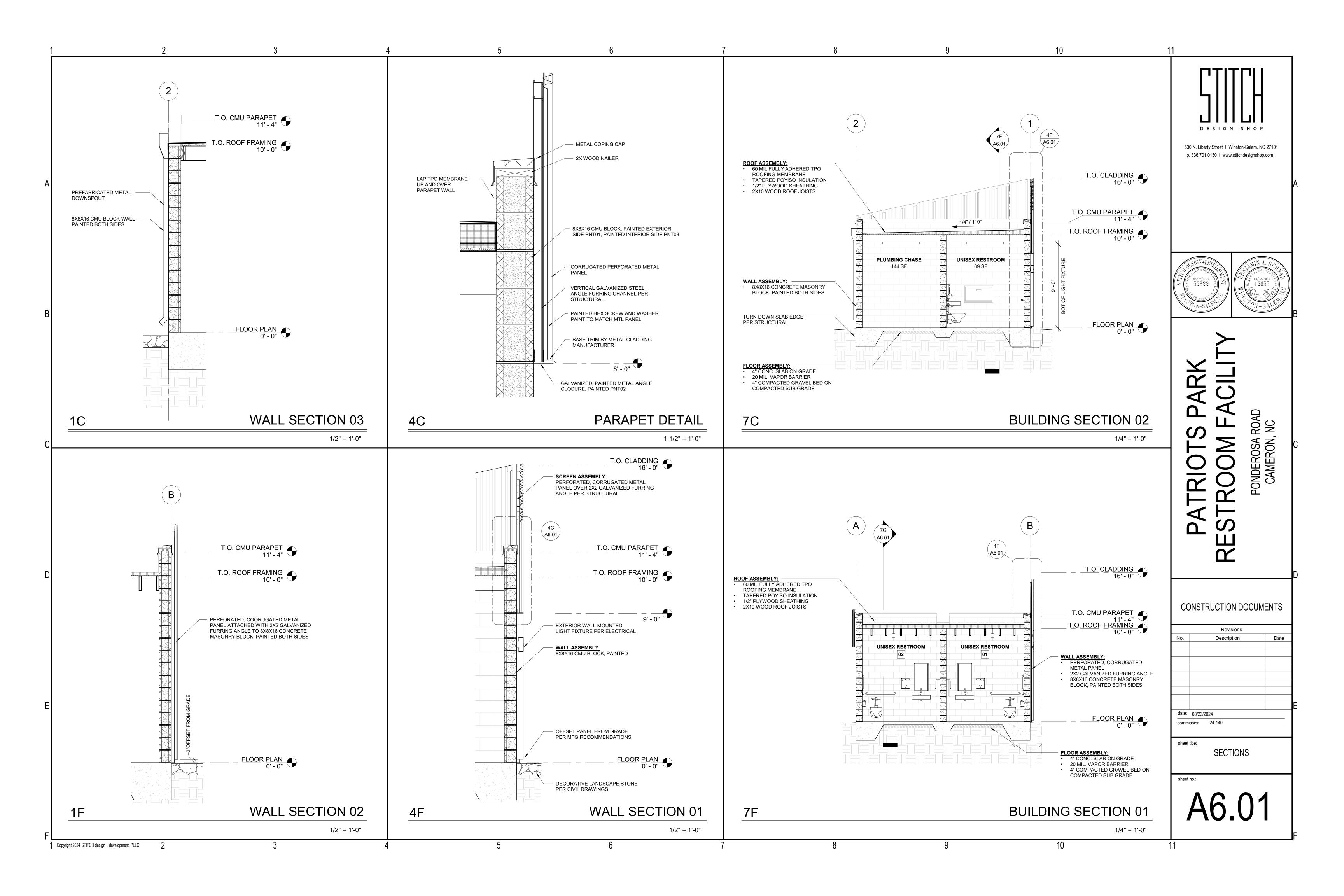












A. <u>FOUNDATIONS</u> ALL FOUNDATIONS SHALL BE FOUNDED ON RESIDUAL SOIL OR STRUCTURAL FILL WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 2,000 PSF. ALLOWABLE SOIL BEARING PRESSURES SHALL BE VERIFIED BY GEOTECHNICAL ENGINEER AT THE TIME THE FOOTING EXCAVATIONS ARE MADE. WRITTEN VERIFICATION OF ADEQUATE BEARING MATERIALS SHALL BE SUBMITTED TO THE ARCHITECT AND CONCRETE REINFORCING BARS SHALL BE HELD 3" CLEAR OF THE BOTTOM AND SIDES OF ALL FOUNDATION ELEMENTS. REINFORCING BARS SHALL BE FREE OF MUD, GREASE, OR ANY OTHER MATERIAL THAT COULD ADVERSELY AFFECT THE BOND BETWEEN THE DEFORMED BAR AND CONCRETE. . THE GENERAL CONTRACTOR SHALL COORDINATE TOP OF FOOTING ELEVATIONS WITH SITE GRADING PLANS AND UTILITIES PRIOR TO FABRICATION OF CONCRETE REINFORCING STEEL AND/OR STRUCTURAL STEEL FRAMING. B. CAST-IN-PLACE CONCRETE CAST-IN-PLACE CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28-DAY COMPRESSIVE STRENGTHS. FOOTINGS......3000 PSI SLABS-ON-GRADE......4000 PSI PRIOR TO CASTING ANY CONCRETE, MIX DESIGNS, INCLUDING ALL ADMIXTURES, SHALL BE APPROVED BY THE ARCHITECT OR ENGINEER. NO CALCIUM CHLORIDE SHALL BE ADDED TO THE MIX AT ANY TIME. ALL CONCRETE SUBJECT TO FREEZING CONDITIONS AND/OR DE-ICING SALTS SHALL CONTAIN ENTRAINED AIR AND SHALL HAVE A MAXIMUM WATER-TO-CEMENT THE ADDITION OF WATER TO CONCRETE OUTSIDE OF THE BATCHING PLANT IS PROHIBITED, INCLUDING FOR THE PURPOSE OF INCREASING SLUMP OR FOR RETEMPERING OF CONCRETE THAT HAS BEGUN TO SET. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL ISOLATION MATERIAL BETWEEN CONCRETE POURS AND BETWEEN CONCRETE AND OTHER MATERIALS, WHETHER SHOWN IN DETAILS OR NOT. . THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL ANCHOR BOLTS, EMBED PLATES, CONNECTORS, SLEEVES, ETC. IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND IN COORDINATION WITH OTHER TRADES PRIOR TO PLACING PREPARATION, PLACEMENT, CURING, AND FINISHING OF ALL CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE.

C. CONCRETE REINFORCING

- 1. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60.
- 2. WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ASTM A185.
- 3. REFER TO THE REINFORCING STEEL LAP SCHEDULE FOR LAP LENGTHS AND ADDITIONAL REQUIREMENTS OF LAP SPLICES.
- 4. ALL REINFORCING STEEL, INCLUDING WELDED WIRE MESH, SHALL BE SUPPORTED AND SECURELY TIED IN PLACE TO MAINTAIN THE INTENDED REINFORCING LOCATION AND PROPER CLEAR COVER THROUGHOUT THE ENTIRE PROCESS OF PLACING CONCRETE. ALL CHAIRS, BOLSTERS, ETC. SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
- 5. ALL REINFORCING STEEL SHALL BE CLEAN OF MUD, DEBRIS, RUST, OR ANY OTHER MATERIAL THAT MAY INHIBIT THE BOND BETWEEN THE CONCRETE AND STEEL REINFORCING.

D. STRUCTURAL STEEL

OF AWS D1.1.

MINIMUM YIELD STRENGTH OF 36 KSI.

- 1. ALL STRUCTURAL STEEL ROLLED SHAPES SHALL CONFORM TO ASTM A992, GRADE 50. ALL HSS SQUARE AND RECTANGULAR MEMBERS SHALL CONFORM TO ASTM A500, GRADE B, 50 KSI. ALL HSS ROUND MEMBERS SHALL CONFORM TO ASTM A500. GRADE B, 42 KSI. ALL PLATES AND MISCELLANEOUS STEEL, INCLUDING THOSE FOR 3. BUILT-UP MEMBERS, SHALL CONFORM TO ASTM A36.
- 2. BOLTS FOR CONNECTING STRUCTURAL STEEL MEMBERS SHALL BE ASTM A325-N, 3/4" DIAMETER, UNLESS OTHERWISE NOTED.
- 3. ANCHOR BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F1554 WITH A
- 4. STEEL STUD CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A29, A108, AND AWS D1.1 WITH A MINIMUM TENSILE STRENGTH OF 65 KSI.
- 5. ALL WELDING ELECTRODES SHALL BE E70 SERIES, LOW HYDROGEN, UNLESS OTHERWISE NOTED.
- 6. ALL WELDS SHALL BE MADE ONLY BY WELDERS WHO HAVE BEEN PREQUALIFIED BY TESTS OF THE AMERICAN WELDING SOCIETY, PRESCRIBED IN THE LATEST EDITION
- 7. ALL FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE LATEST SPECIFICATION, COMMENTARY, AND CODE OF STANDARD PRACTICE OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION. EXCEPT REFERENCES TO THE "OWNER'S" RESPONSIBILITY SHALL BE CHANGED TO "CONTRACTOR'S" RESPONSIBILITY.
- 8. ANY CONNECTION NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED BY THE STRUCTURAL STEEL FABRICATOR.

E. CONCRETE MASONRY

- A. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR CONCRETE
- MASONRY. B. CONCRETE MASONRY UNITS SHALL BE TWO CORE UNITS WITH A MINIMUM COMPRESSIVE STRENGTH OF 1,900 PSI OR GREATER AND MORTAR SHALL BE TYPE S. BASED ON THESE VALUES, THE MASONRY COMPRESSIVE STRENGTH F'm HAS BEEN ASSUMED TO BE 1,500 PSI.
- C. GROUT FILL FOR ALL REINFORCED MASONRY SHALL CONFORM TO THE REQUIREMENTS OF ASTM C476 AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI. GROUT SLUMP SHALL BE 8"-11". UNLESS SELF-CONSOLIDATING GROUT IS USED, GROUT FILL SHALL BE MECHANICALLY VIBRATED IN ACCORDANCE WITH TMS-402.
- A. ALL REINFORCING BARS SHALL BE SECURED IN PLACE PRIOR TO GROUTING WITH APPROVED ACCESSORIES TO PREVENT MOVEMENT OR DISPLACEMENT

CORNERS AND TEES SHALL BE USED AS REQUIRED.

- DURING THE GROUTING PROCESS. B. REINFORCEMENT SHALL HAVE A MINIMUM OF 1/2" OF GROUT BETWEEN THE
- BAR AND THE MASONRY UNIT. C. MASONRY SHALL BE REINFORCED HORIZONTALLY WITH STANDARD GALVANIZED WIRES (9 GA / W1.7) AT 16" O/C VERTICALLY. PREFABRICATED

- A. MAXIMUM LIFT HEIGHTS FOR PLACEMENT OF GROUT SHALL CONFORM TO B. STOP GROUTING FOR EACH LIFT 1" BELOW TOP OF LAST CMU COURSE, WITH
- THE EXCEPTION OF THE LIFT TERMINATING AT THE TOP OF WALL. C. PROVIDE FULL HEAD AND BED JOINTS FOR EACH UNIT. THE MORTAR BED UNDER THE FIRST COURSE AT THE FOUNDATION SHALL NOT FILL THE CORE
- D. AT A MINIMUM, ALL MASONRY CELLS WITH REINFORCING SHALL BE GROUTED SOLID. REFER TO DRAWING NOTES AND DETAILS FOR ADDITIONAL GROUTING REQUIREMENTS. ALL MASONRY CELLS BELOW GRADE SHALL BE GROUTED

F. <u>DESIGN LOADS</u>

- 1. BUILDING RISK CATEGORY
- 2. IMPORTANCE FACTORS SNOW IMPORTANCE FACTOR ICE IMPORTANCE FACTORS (THICKNESS / WIND) 1.00 / 1.00 SEISMIC IMPORTANCE FACTOR 1.00 3. SOIL BEARING CAPACITY 2000 PSF
- 4. <u>LIVE LOADS</u> ROOF LIVE LOAD 20 PSF FLOOR LIVE LOAD 100 PSF
- 10 PSF GROUND SNOW LOAD SNOW LOAD EXPOSURE FACTOR 1.0 THERMAL FACTOR 1.0 WIND DESIGN CRITERIA **BASIC WIND SPEED** 117 MPH
- INTERNAL PRESSURE COEFFICIENT COMPONENTS AND CLADDING DESIGN PER ASCE 7-10 CHAPTER 30

WIND EXPOSURE FACTOR

D (ASSUMED) SITE CLASSIFICATION SPECTRAL RESPONSE COEFFICIENTS $S_s = 0.205 g$ $S_1 = 0.093 g$ $S_{ds} = 0.218 g$ $S_{d1} = 0.149 g$

+/- 0.18

E.L.F.

- SEISMIC DESIGN CATEGORY SEISMIC RESPONSE MODIFICATION COEFFICIENT ANALYSIS PROCEDURE
- G. SHOP DRAWING SUBMITTALS
- 1. SHOP DRAWINGS SHALL BE PREPARED FOR THE FOLLOWING STRUCTURAL ITEMS. REFER TO DRAWINGS OF OTHER TRADES FOR ADDITIONAL SHOP DRAWING REQUIREMENTS.
- A. CONCRETE MIX DESIGNS B. CONCRETE REINFORCING
- C. CONCRETE MASONRY REINFORCING

- H. MISCELLANEOUS
- 1. STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH DRAWINGS OF OTHER TRADES AND DRAWINGS FURNISHED BY MATERIAL ANI EQUIPMENT SUPPLIERS. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING WORK OF ALL TRADES IS FULLY COORDINATED.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, ERECTING, AND REMOVING ALL TEMPORARY SHORING AND BRACING. SHOULD DESIGN OF TEMPORARY SHORING BE REQUIRED, THE CONTRACTOR IS RESPONSIBLE FOR PROCURING SUCH DESIGN AND INSTALLING IT IN ACCORDANCE
- WITH THE PROVIDED SHOP DRAWINGS AND CONSTRUCTION DOCUMENTS. 3. ALL SPECIALTY BOLTS, ANCHORS, PRODUCTS, ETC. SHALL BE INSTALLED IN STRICT
- ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.
- 5. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE SAFETY REGULATIONS. THE ENGINEER SHALL NOT HAVE CONTROL OF, CHARGE OF, OR BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES IN CONNECTION WITH THE WORK OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OTHER PERSONS PERFORMING WORK IN ACCORDANCE WITH THE CONTRACT

4. "PROVIDE" SHALL BE INTERPRETED TO MEAN "FURNISH AND INSTALL".



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REBAR LAP SCHEDULE

BAR SIZE	MASONRY LAP	3000 PSI CONCRETE LAP	4000 PSI CONCRETE LAP
#3	18"	22"	19"
#4	24"	29"	25"
#5	30"	36"	31"
#6	54"	43"	37"
#7	N/A	63"	54"
#8	N/A	72"	62"
#9	N/A	81"	70"
W.W.F.	N/A	12"	12"

REBAR LAP SCHEDULE NOTES

- LAP LENGTHS ABOVE ASSUME MINIMUM ALLOWABLE CLEAR COVER DIMENSIONS.
- FOR HORIZONTAL REINFORCEMENT PLACED IN WALLS, FOOTINGS, OR SLABS WITH 12" OF FRESH CONCRETE BELOW THE BARS, MULTIPLY THE LAP LENGTHS ABOVE BY A FACTOR OF 1.3. FOR CONDITIONS NOT LISTED,

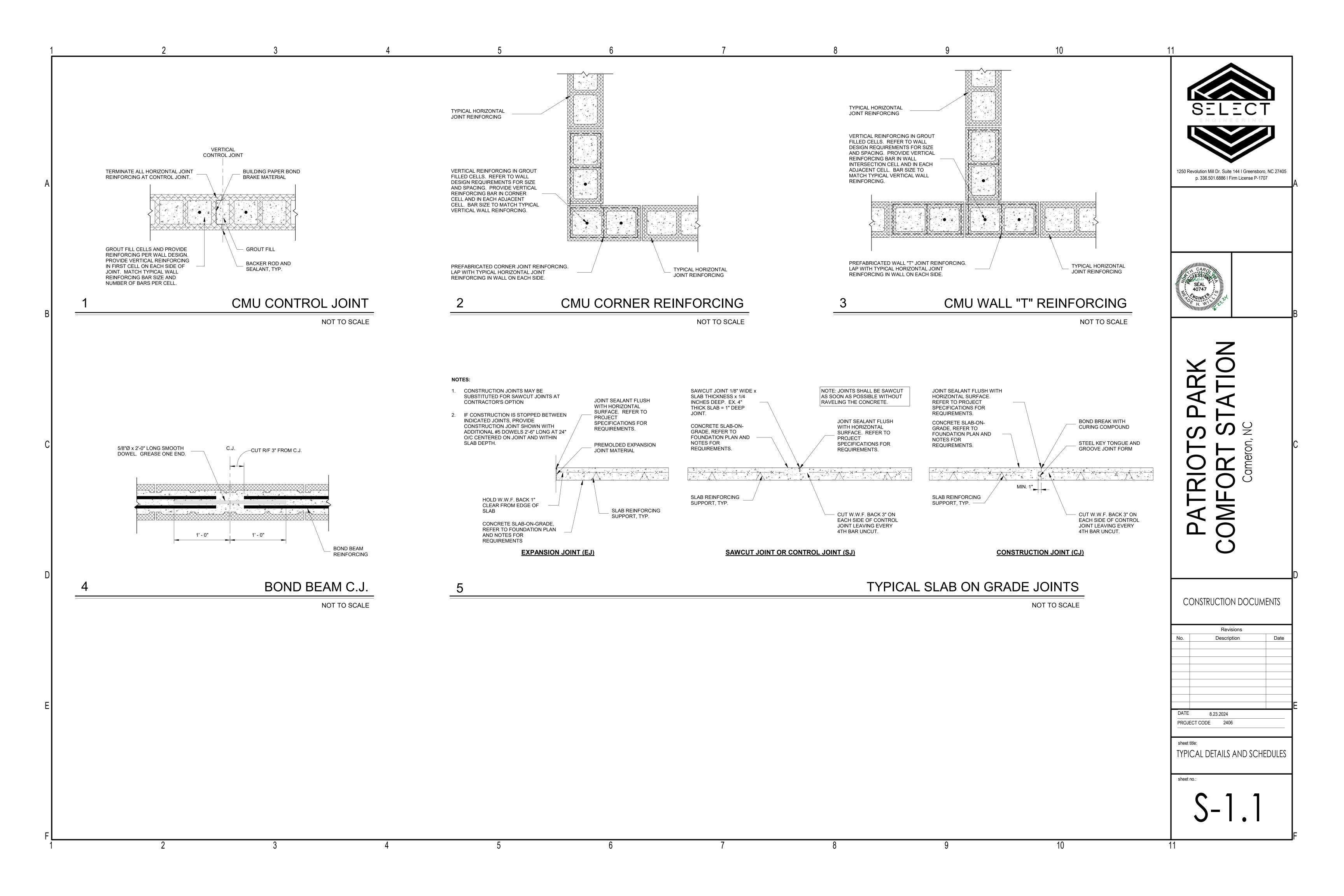
CONTACT THE ENGINEER OF RECORD.

CONSTRUCTION DOCUMENTS

Revisions Description

DATE 8.23.2024 PROJECT CODE 2406

GENERAL NOTES AND SCHEDULES



FOUNDATION PLAN NOTES

- (+/- _ ' _ _") ON PLAN DENOTES ELEVATION OF FOUNDATION ELEMENT RELATIVE TO REFERENCE TOP OF CONCRETE SLAB ELEVATION OF (+ 0' 0")
- 2. TS _ ON PLAN DENOTES CONTINUOUS THICKENED SLAB WALL FOOTING. REFER TO FOUNDATION DETAILS FOR REQUIREMENTS.
- 3. CONTRACTOR SHALL PROVIDE SAWCUT CONTROL JOINTS IN THE CONCRETE SLAB ON GRADE AT A MAXIMUM SPACING OF 10'-0" ON CENTER. REFER TO TYPICAL SLAB JOINT DETAILS FOR REQUIREMENTS.
- 4. ALL FOUNDATION COMPONENTS SHALL BE CONSTRUCTED ON SOUND SUBGRADE MATERIAL WITH A MINIMUM BEARING CAPACITY OF 2,000 PSF. REFER TO GEOTECHNICAL REPORT BY FOR REQUIREMENTS OF SUBGRADE TESTING, PREPARATION, AND ADDITIONAL INFORMATION.
- 5. INTERIOR CONCRETE SLAB-ON-GRADE SHALL BE A MINIMUM 4" THICK 4,000 PSI MIX. PROVIDE 6 x 6 x W1.4 x W1.4 WELDED WIRE MESH REINFORCING HELD 1" CLEAR FROM TOP OF SLAB. PLACE SLAB OVER MINIMUM 8 MIL POLY VAPOR BARRIER OVER MINIMUM 4" COMPACTED STONE FILL MATERIALS.
- 6. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS FOR INSULATION, WATERPROOFING, FLASHING, FINISH MATERIALS, ETC.
- 7. REFER TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

HEADER FRAMING PLAN NOTES

- 1. UNLESS OTHERWISE NOTED ON PLAN, TOP OF WALL ELEVATION SHALL BE (+11' - 4") ABOVE REFERENCE FLOOR ELEVATION OF (+0' - 0"). TOW (+ _ _ ' - _ _ ") ON PLAN DENOTES ALTERNATE TOP OF WALL ELEVATION.
- 2. DIMENSIONS FOR OPENINGS SHOWN ON PLAN ARE FOR GENERAL REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION, SIZE AND ORIENTATION OF WALL OPENINGS.
- 3. WALL CONSTRUCTION SHALL BE 8"x8"x16" CONCRETE MASONRY UNITS. PROVIDE #4 VERTICAL BARS @ 48" O/C. PROVIDE LADDER STYLE HORIZONTAL JOINT REINFORCING @ 16" O/C. TYPICAL CMU WALLS SHALL BE FULLY GROUTED FROM TOP OF WALL TO FOUNDATION LEVEL AT EACH REINFORCED CELL. REFER TO MASONRY WALL REINFORCING NOTES AND DETAILS FOR ADDITIONAL REINFORCING REQUIREMENTS.
- 4. H_ ON PLAN INDICATES LOCATION OF STRUCTURAL LINTEL HEADER. H1 DENOTES 8" DEEP REINFORCED CMU HEADER. REFER TO CMU HEADER DETAIL FOR ADDITIONAL DETAILS AND REQUIREMENTS.
- 5. REFER TO ARCHITECTURAL DETAILS FOR ROUGH OPENING DIMENSIONS.
- 6. REFER TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

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CONSTRUCTION DOCUMENTS

No.	Description	Date

8.23.2024 PROJECT CODE 2406

COMFORT STATION FOUNDATION AND HEADER FRAMING PLANS

18' - 8" 18' - 8" - TOW (+9 ' - 1 3/4") TOW (+9 ' - 1 3/4")

COMFORT STATION - FOUNDATION PLAN

COMFORT STATION - HEADER FRAMING PLAN

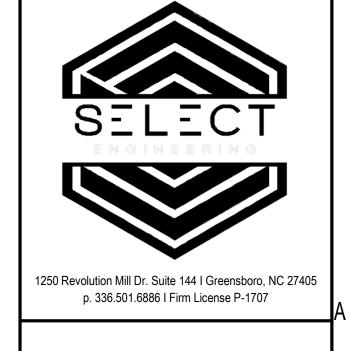
1/4" = 1'-0"

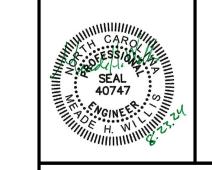
1/4" = 1'-0"

ROOF FRAMING PLAN NOTES

- 1. UNLESS OTHERWISE NOTED ON PLAN, TOP OF WALL ELEVATION SHALL BE (+11' 4") ABOVE REFERENCE FLOOR ELEVATION OF (+0' 0").

 TOW (+__' __") ON PLAN DENOTES ALTERNATE TOP OF WALL ELEVATION.
- ROOF FRAMING SHALL BE 2x10 SOUTHERN PINE OR SPRUCE-PINE-FIR NO. 2 GRADE OR BETTER.
- 3. TYPICAL ROOF SHEATHING SHALL BE 15/32" APA RATED SHEATHING EXPOSURE 1 WOOD STRUCTURAL PANELS. STAGGER END JOINTS AND PROVIDE 1/8" GAP AT PANEL EDGES. FASTEN PANELS WITH 8d NAILS @ 12" WITHIN THE PANEL FIELD AND WITH 8d NAILS @ 6" O/C AT ALL PANEL EDGES. INSTALL 2x4 BLOCKING IN PLAN ORIENTATION UNDER ALL UNSUPPORTED EDGES.
- 4. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, ROOF SLOPES AND EXTENTS, ETC.
- 5. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR BLOCKOUTS, DRAIN LINES, SLEEVES, OUTLET BOXES, CONDUIT, ETC. AND OTHER ITEMS TO BE COORDINATED WITH ROOF
- 6. REFER TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.



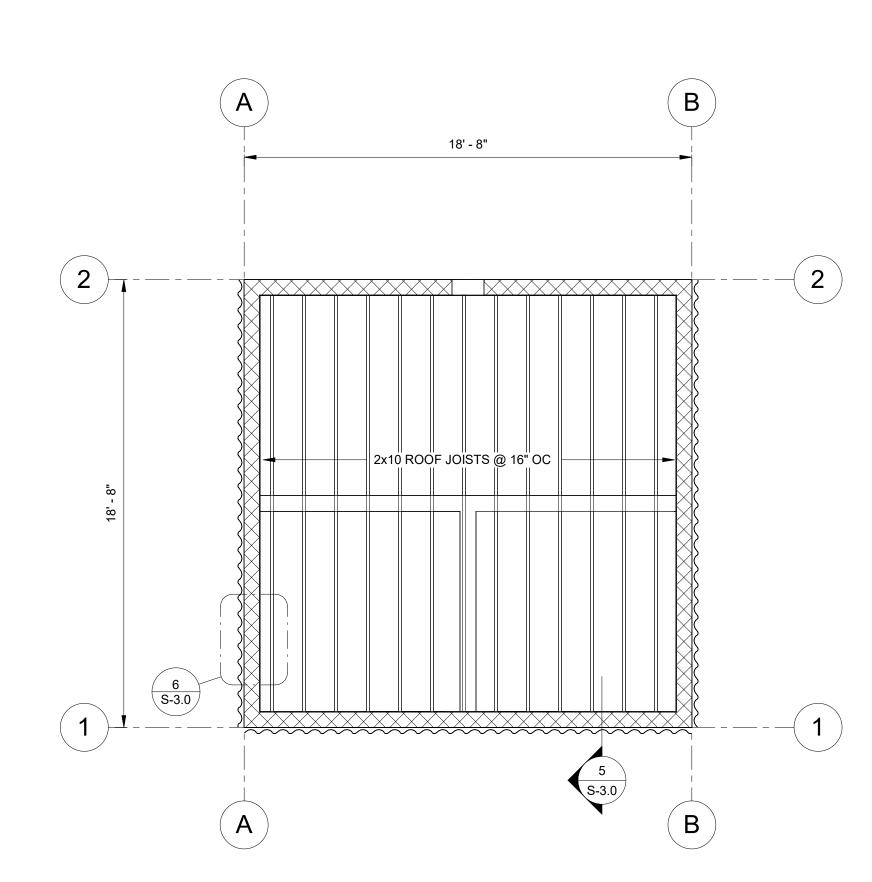


CONSTRUCTION DOCUMENTS

	Revisions	
No.	Description	Da
DATE	8.23.2024	

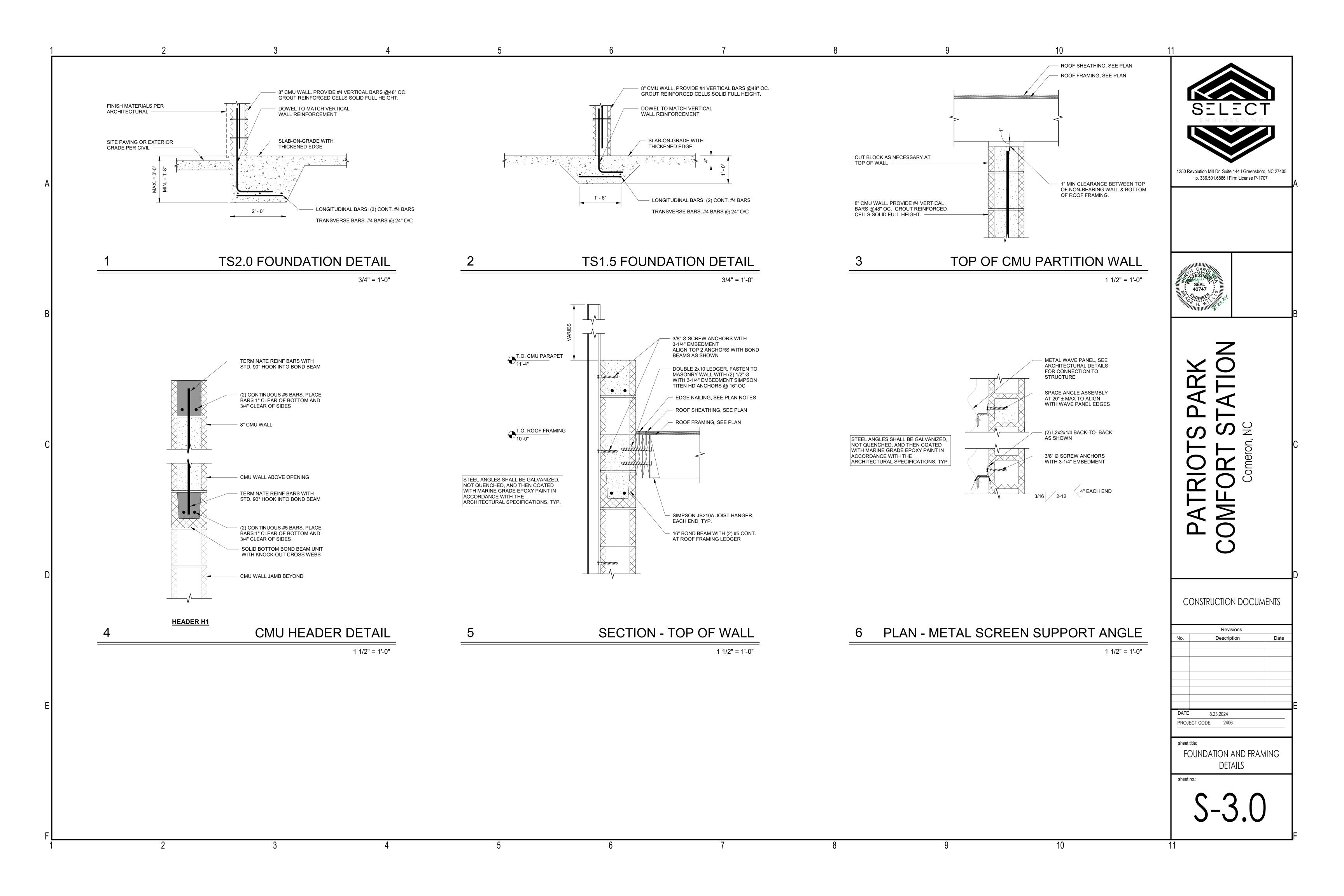
PROJECT CODE 2406

COMFORT STATION ROOF FRAMING PLAN AND SECTIONS



COMFORT STATION - ROOF FRAMING PLAN

1/4" = 1'-0"



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PLUMBING FIXTURE SCHEDULE

 WALL MOUNTED MANUAL FLUSH VALVE WATER CLOSET WITH 1.6 GPF, ELONGATED BOWL WITH OPEN SEAT AND SELF SUSTAINING CHECK HINGES. VALVE TO HAVE SOLID RING PIPE SUPPORT. ADA HEIGHT 0F 17" AFF TO RIM. CLOSET CARRIER RATED FOR 500 LBS LOADING. FIXTURE: ZURN #Z5615-BWL

FLUSH VALVE: ZURN "AQUAFLUSH" #Z6000-WS1-YK CARRIER: ZURN #Z1201-NL4 (LEFT HANDED) & #Z1201-NR4 (RIGHT HANDED)





- WALL HUNG, VITREOUS CHINA LAVATORY WITH 4" CENTER SET, MANUAL METERING FAUCET WITH ADA COMPLIANT ROCKER HANDLES, FRONT OVERFLOW AND OPEN GRID STRAINER. EXPOSED ARM WALL SUPPORT WITH VANDAL RESISTANT TRIM. PROVIDE COMPLETE WITH TRAP AND SUPPLY SCALD GUARDS. FOR THE LAVATORY IN "UNISEX 01" PROVIDE WITH A WATER SAVER P-TRAP AND ROUTE DISCHARGE DOWN TO FLOOR DRAIN IN PLUMBING CHASE. PROVIDE A STANDARD TRAP ON THE LAVATORY IN "UNISEX 02".

FIXTURE: ZURN #Z5344 FAUCET: ZURN #Z86500-XL-RKR-3M





BARRIER FREE, BI-LEVEL, PEDESTAL MOUNTED EXTERIOR DRINKING FOUNTAIN WITH 18ga, 304 STAINLESS STEEL BOWLS, 12ga HEAVY DUTY SCRATCH RESISTANT STAINLESS STEEL FINISH WITH RED POWDERCOAT. ADA COMPLIANT WITH CHILD HEIGHT SECONDARY BUBBLER WITH PUSH BUTTON ACTUATOR. PROVIDE COMPLETE WITH IN GROUND MOUNTING PLATE TO MOUNT TO CONCRETE SLAB.

FIXTURE:MURDOCK #GRM46-CH30-IAP



PISTON TYPE WATER HAMMER ARRESTOR SIZED FOR FIXTURES BEING SERVED. FIXTURE: SIOUX CHIEF #650



 3" OUTLET, ROUND FLOOR DRAIN WITH NICKEL BRONZE GRATE AND AND TRAP PRIMER INLET FIXTURE: SIOUX CHIEF #822-3PNR



- ADJUSTABLE CLEANOUT WITH BRONZE PLUG AND TOP, AND VANDAL PROOFSCREWS. FIXTURE: SIOUX CHIEF #834-4DNRV



ASSE 1070 COMPLIANT POINT OF USE MIXING VALVE. SET OUTLET TEMP TO MAXIMUM 80 DEG F FIXTURE: ZURN #ZW3870XLT



ASSE 1052 COMPLIANT FREEZE PROOF HOSE BIBB WITH TEE KEY OPERATION. NOTE THIS FIXTURE MUST HAVE THE ASSE 1052 RATING TO ALLOW FULL DRAINING EVEN WITH A HOSE ATTACHED.



TANKLESS ELECTRIC WATER HEATER WITH 56 DEG TEMP RISE AT 0.5 GPM FLOW. SET OUTLET TEMPERATURE TO MAXIMUM 90 DEG F. 3.5kW @ 240V/1PH. PROVIDE COMPLETE WITH WALL MOUNTING KIT. 48 DEGREE RISE AT 0.5GPM. FIXTURE: EEMAX #SPEX35T



PLUMBING SPECIFICATIONS

- PLUMBING CONTRACT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FEES, AND PERMITS REQUIRED FOR AND REASONABLY INCIDENTAL TO THE EXECUTION OF THE PLUMBING WORK.
- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH NORTH CAROLINA STATE BUILDING CODE, PLUMBING, ENERGY, AND LOCAL BUILDING CODES.
- THE PLUMBING CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE PLUMBING PLANS. SCHEDULES AND DETAILS PRIOR TO INSTALLATION OF THE PLUMBING SYSTEM AND REVIEW ANY CONFLICTS THAT ARE NOTED WITH THE OWNER, ARCHITECT AND/OR ENGINEER FOR RESOLUTION. FIELD VERIFY ALL EXISTING LINE SIZES AND LOCATION PRIOR TO BIDDING.
- IT WILL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO INSURE THAT ITEMS TO BE FURNISHED UNDER THIS CONTRACT WILL FIT THE SPACE AVAILABLE. HE SHALL MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS, AND SHALL FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE INTENT AND MEANING OF THE DRAWINGS AND SPECIFICATIONS.
- THE PLUMBING CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE OTHER TRADES PRIOR TO THE INSTALLATION OF ANY OF HIS PIPING OR EQUIPMENT.
- MEASUREMENTS: BEFORE ORDERING ANY MATERIAL OR DOING ANY WORK, THE PLUMBING CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND LINE SIZES AND SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF SAME. HE SHALL ALSO BE RESPONSIBLE FOR VERIFYING THE INVERT ELEVATION OF THE EXISTING SANITARY PIPING PRIOR TO CONSTRUCTION.
- ALL MATERIALS USED SHALL BE NEW UNLESS OTHERWISE SHOWN OR CALLED FOR, AND SHALL BE FURNISHED IN ACCORDANCE WITH STANDARD SPECIFICATION OF THE AMERICAN SOCIETY FOR TESTING MATERIALS, THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS, THE AMERICAN CONCRETE INSTITUTE, AND OTHER GUIDE SPECIFICATIONS.
- DIAGRAMS AND COORDINATION: THE DRAWINGS ARE DIAGRAMMATIC AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. THE DRAWINGS INDICATE OFFSETS REQUIRED, BUT BY NO MEANS INDICATE
- INSPECTIONS: THE CONTRACTOR MUST AT ALL TIMES LEND ANY ASSISTANCE NECESSARY FOR ENGINEERS OR THEIR AUTHORIZED REPRESENTATIVE TO MAKE TESTS, INSPECTIONS, ETC.
- BLOWING OUT, CLEANING AND TESTING SYSTEMS: ALL PIPING AND EQUIPMENT SHALL BE BLOWN OUT UNDER PRESSURE AND CLEANED OF FOREIGN MATTER BEFORE THE SYSTEM IS PUT INTO OPERATION. EQUIPMENT SHALL NOT BE CONNECTED TO PIPING UNTIL IT HAS BEEN BLOWN OUT AND CLEANED. PRESSURE TEST ALL NEW WATER PIPING SYSTEM. ANY DEFECTS MADE EVIDENT BY THE TEST SHALL BE CORRECTED BY THIS CONTRACTOR WITHOUT EXTRA COST TO THE OWNER. DISINFECT WATER PIPING IN ACCORDANCE WITH N.C. PLUMBING CODE, SECTION 610.1.
- GUARANTEE: CONTRACTOR SHALL GUARANTEE HIS MATERIAL, EQUIPMENT AND WORKMANSHIP FOR A PERIOD OF 12 MONTHS AFTER DATE OF FINAL ACCEPTANCE BY ENGINEERS AND OWNERS (PARTS AND LABOR). ALL GUARANTEE FAILURE SHALL BE CORRECTED OR REPLACED BY CONTRACTOR AS SOON AS POSSIBLE AFTER NOTIFICATION OF SUCH FAILURE.
- SANITARY WASTE & VENT PIPING: PVC PIPE AND FITTINGS CONFORMING TO ASTM D-2665. NO FOAM CORE PVC PIPE WILL BE ACCEPTABLE.
- ABOVE GROUND WATER PIPING: TYPE L HARD COPPER WATER PIPING CONFORMING TO ASTM-B-88. WROUGHT-COPPER FITTINGS CONFORMING TO ASTM-B-16.23.
- UNDERGROUND WATER PIPING: TYPE K COPPER. ROLLED COPPER WITH NO JOINTS, WRAPPED IN 1/2" PROTECTIVE ARMAFLEX.
- INSULATION: PROVIDE INSULATION OF ALL NEW PIPING AS SHOWN: ALL INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURES WRITTEN INSTRUCTIONS BY AN APPROVED INSULATION SUBCONTRACTOR. TEST ALL PIPING PRIOR TO COVERING. PIPE INSULATION WITHIN THE PLUMBING CHASE SHALL BE 1" ARMAFLEX. PIPING TO LAVATORIES WITHIN THE RESTROOM SHALL BE 1-1/2" ARMAFLEX MEETING AN R-10 RATING AT 75 DEG F.
- PROVIDE BALL VALVES TO ISOLATE ALL GROUPS OF FIXTURES AND AS SHOWN ON THE PLANS TO FACILITATE FUTURE SERVICING.
- PROVIDE DIELECTRIC UNIONS OR FLANGES TO ISOLATE DISSIMILAR METALS.
- HORIZONTAL DRAINAGE PIPING 3" AND LARGER SHALL HAVE A MINIMUM FALL OF 1/8" PER FOOT AND PIPING 2" AND SMALLER SHALL HAVE A MINIMUM FALL OF 1/4" PER FOOT. FIELD VERIFY INVERTS PRIOR TO CONSTRUCTION.
- CLEANOUTS SHALL BE PROVIDED IN ALL SANITARY PIPING AS SHOWN OR INDICATED BY THE AHJ.
- WCO SHALL HAVE STAINLESS STEEL COVERS.
- ALL VENT PIPING SHALL SLOPE UP TO THE DISCHARGE POINT.
- MAINTAIN ALL FIRE RATINGS. SUBMIT UL ASSEMBLY TO LOCAL FIRE MARSHAL FOR APPROVAL.
- G.C. SHALL BE RESPONSIBLE FOR ALL FLOOR SLAB POURING. TRENCHING AND BACKFILL BY P.C.

SEWER CAMERA AND SMOKE TEST

AFTER ALL NEW UNDERGROUND PIPING AND FIXTURES ARE INSTALLED, THE PLUMBING CONTRACTOR SHALL PERFORM A FULL UNDERGROUND CAMERA OF THE NEW PIPING.

THE PLUMBING CONTRACTOR SHALL FLUSH THE SYSTEM WITH WATER AND THEN CAMERA THE LINE TO IDENTIFY ANY CONSTRUCTION DEBRIS STUCK IN THE PIPES OR LOW SPOTS IN THE PIPING. ALL DEFICIENCIES SHOULD BE ADDRESSED TO ENSURE A FULLY FUNCTIONING SYSTEM.

THE SEWER CAMERA SHALL HAVE RECORDED VIDEO CAPABILITY. THIS VIDEO FILES SHOULD BE SHARED WITH THE ENGINEER AND THE COUNTY REPRESENTATIVE.

A SMOKE VENT TEST SHOULD ALSO BE PERFORMED TO MAKE SURE NO OPEN SEWER PIPES REMAIN INSIDE THE BUILDING.



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AND TO PROVIDE DRAWING CLARITY.

15886

08/23/2024

CONSTRUCTION DOCUMENTS

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No.	Description	Date
date:	08/23/2024	
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PLUMBING COVER SHEET

sheet no.:

PLUMBING SHEET INDEX

P001 PLUMBING COVER SHEET

P101 PLUMBING PLAN

A NEW RPZ TYPE BACKFLOW PREVENTER SHALL BE PROVIDED AND INSTALLED BY THE G.C. UNDER

P.C. TO INSTALL LINE SIZED PRV RATED FOR 75psi WHERE PIPE ENTERS THE BUILDING INSIDE THE

ALL PIPING BELOW THE LAVATORIES SHALL BE WRAPPED WITH MINIMUM 1-1/2" INSULATION RATED FOR R-10 @ 75 DEG F. P.C. TO MINIMIZE PIPING STUB OUTS IN RESTROOMS AND ALL MIXING VALVES SHALL

DEVELOPED LENGTH OF HOT WATER PIPING FROM THE WATER HEATER TO THE FURTHEST FIXTURE

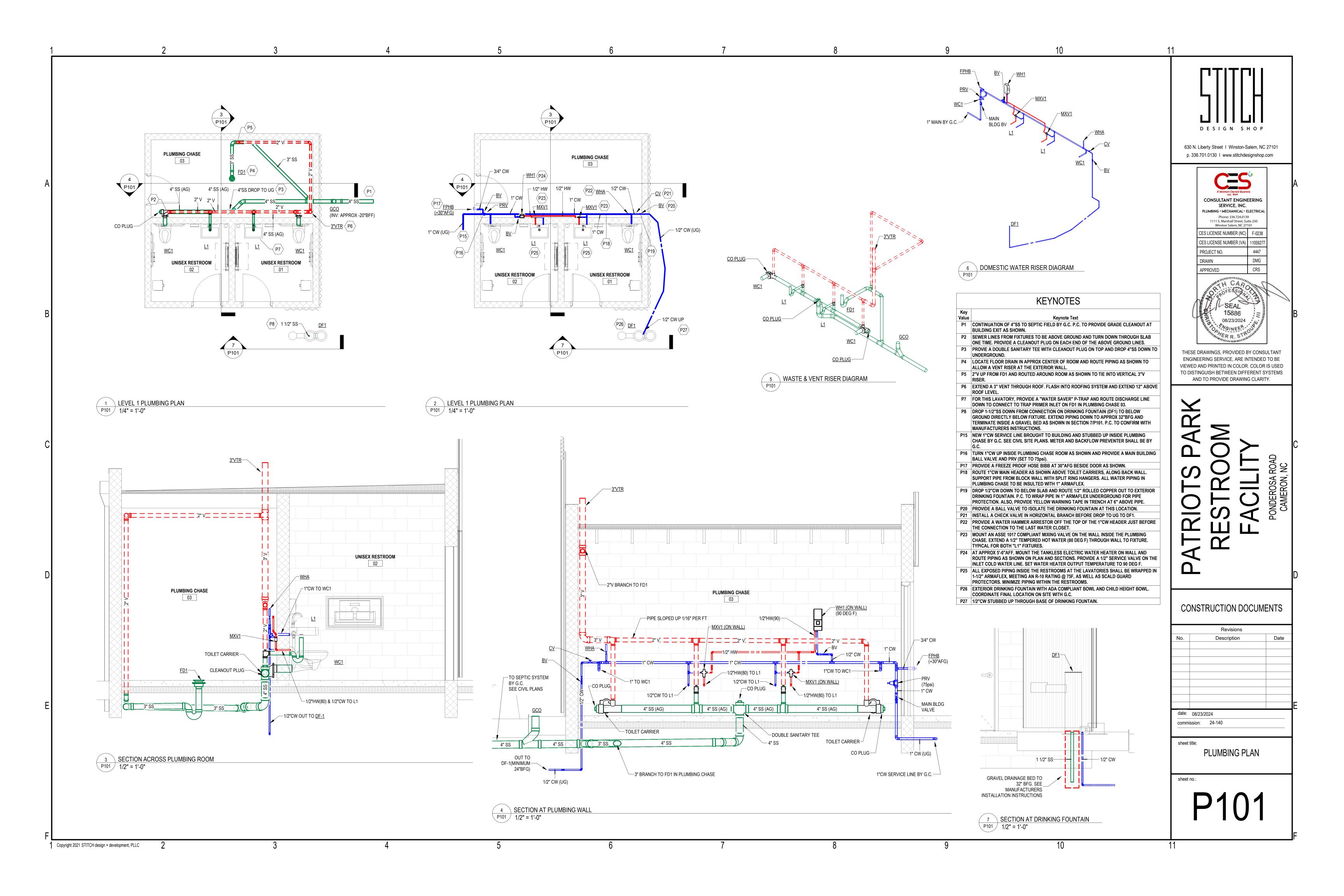
FIXTURE RUN OUT SIZES CW = COLD WATER

HW = HOT WATER (TEMP)

THE FOLLOWING FIXTURES SHALL BE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR.

- 1/2" CW & 1/2"HW(80) DF1 - 1/2" CW WH1 - 1/2" CW & 1/2" HW(90)

FPHB - 1/2" CW MXV1 - 1/2" CW & 1/2" HW(90) & 1/2"HW(80)



Prescriptive X Energy Cost Budget

Climate Zone 3A (MOORE COUNTY)

Exterior design conditions (FAYETTEVILLE RGNL G NC, USA) winter dry bulb 22.2°F 96.5°F summer dry bulb

76.3°F summer wet bulb Interior design conditions winter dry bulb 40°F summer dry bulb N/A relative humidity N/A

Building heating load 5.7 MBH (PLUMBING CHASE ONLY)

Building cooling load N/A (NO COOLING OF THE SPACE)

Mechanical Spacing Conditioning System

description of unit heating efficiency cooling efficiency

SEE EQUIPMENT SCHEDULES heat output of unit

cooling output of unit

total boiler output. If oversized, state reason. N/A

total chiller capacity. If oversized, state reason. N/A

List equipment efficiencies Refer to drawings and specifications.

Equipment schedules with motors (mechanical systems) description of unit motor power SEE EQUIPMENT SCHEDULES

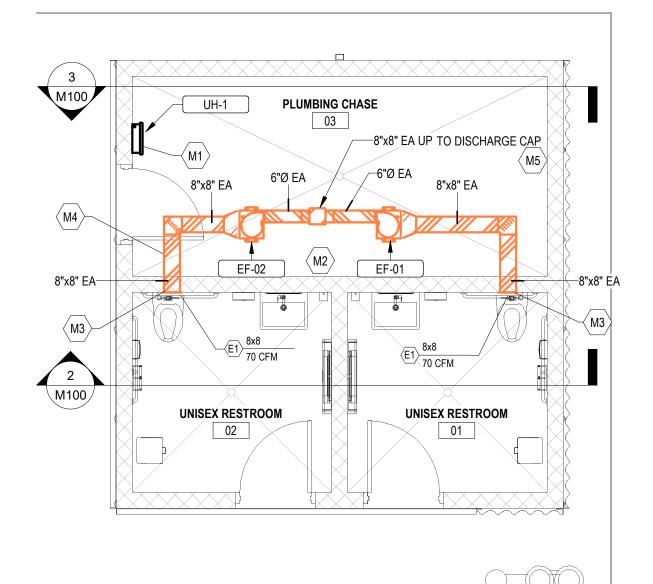
DESIGNER STATEMENT:

TITLE: Engineer

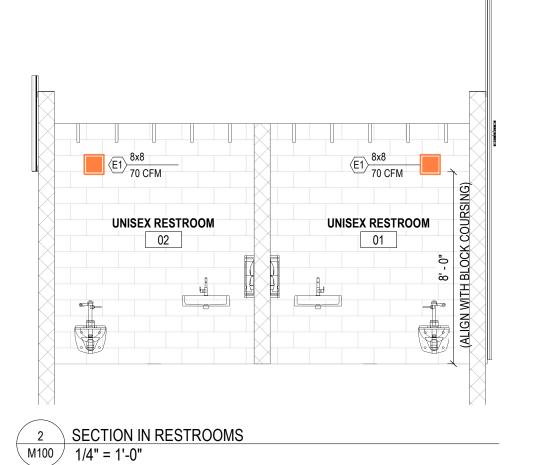
number of phases

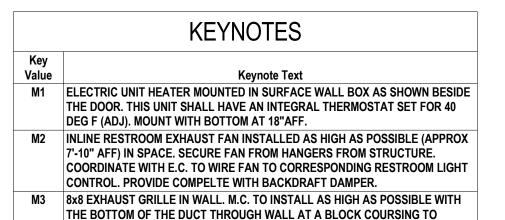
To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the International Building code, Volume X-Energy.

Christopher R. Stroupe NAME: Christopher R. Stroupe, PE



1 MECHANICAL PLAN M100 / 1/4" = 1'-0"

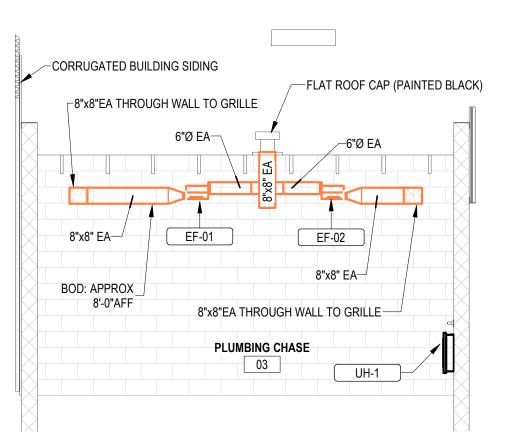




MINIMIZE CUTTING. GRILLE TO BE INSTALLED WITH PRIMER FINISH FOR FIELD M4 EXTEND 8x8 EXHAUST DUCT THROUGH BLOCK WALL FROM GRILLE AND INTO

SIMILAR TO "GREENHECK RCC-7". FLASH INTO ROOFING SYSTEM.

EXHAUST FAN. TYPICAL FOR BOTH RESTROOMS. M5 10x10 EA UP TO ROOF CAP ON ROOF ABOVE. CAP TO BE BLACK IN COLOR AND



SECTION AT PLUMBING CHASE M100 / 1/4" = 1'-0"

MECHANICAL SPECIFICATIONS

1. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LOCAL STATE BUILDING CODE MECHANICAL, ENERGY, AND LOCAL CODES.

2. THE WORD "PROVIDE" AS USED ON THESE DRAWINGS AND IN THESE SPECIFICATIONS SHALL MEAN TO FURNISH AND INSTALL.

3. THE MECHANICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE OTHER TRADES PRIOR TO THE INSTALLATION OF ANY OF HIS EQUIPMENT, PIPING OR CONTROL WIRING.

4. MEASUREMENTS: BEFORE ORDERING ANY MATERIAL OR DOING ANY WORK, THE MECHANICAL CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE SAME.

STANDARDS OF MATERIALS: ALL MATERIALS USED SHALL BE NEW UNLESS OTHERWISE SHOWN OR CALLED FOR, AND SHALL BE FURNISHED IN ACCORDANCE WITH STANDARD SPECIFICATION OF THE AMERICAN SOCIETY FOR TESTING MATERIALS, THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS, ASHRAE, AND OTHER GUIDE SPECIFICATIONS.

6. DIAGRAMS AND COORDINATION: THE DRAWINGS ARE DIAGRAMMATIC AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. THE DRAWINGS INDICATE OFFSETS REQUIRED, BUT BY NO MEANS INDICATE ALL SUCH SITUATIONS.

7. DUCT INSULATION: NOT REQUIRED ON EXHAUST DUCT.

8.. MAINTAIN ALL FIRE RATINGS WHERE APPLICABLE. SUBMIT UL ASSEMBLY TO LOCAL FIRE MARSHAL FOR APPROVAL.

9. DO NOT SCALE THESE DRAWINGS.

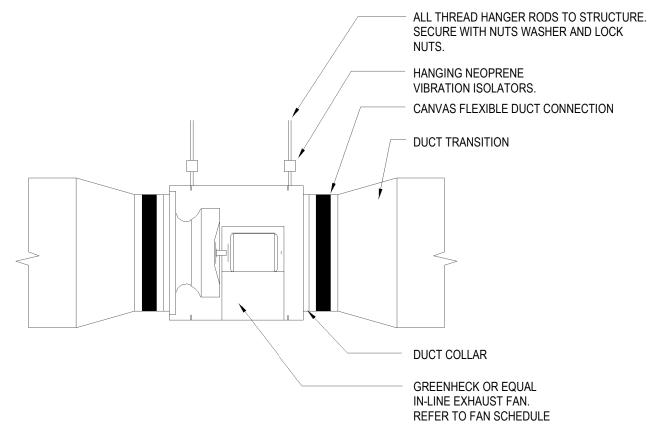
10. ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR MAINTENANCE AND SERVICE. ALL SERVICE CLEARANCES AS SHOWN IN THE MANUFACTURER'S INSTRUCTIONS MUST BE MAINTAINED.

1. THE MECHANICAL CONTRACTOR SHALL COORDINATE SIZE AND LOCATION OF ALL

BUILDING PENETRATIONS.

12. A TEST AND BALANCE SHALL BE PERFORMED TO VERIFY THAT THE EXHAUST FAN IS OPERATING AT THE REQUIRED 70 CFM FLOW RATE..

13. MAKE UP AIR FOR THE EXHAUST FAN IS PROVIDED VIA DOOR LOUVERS, PROVIDED BY



1. ALL DUCT CONNECTIONS SHALL BE MADE AND SEALED IN ACCORDANCE WITH MECHANICAL CODE AND MANUFACTURES INSTRUCTIONS. 2. FAN SHALL BEAR UL LABEL. 3. FACTORY MOUNTED AND WIRED DISCONNECT

NOTES CONTINUED: 4. FACTORY MOTOR GUARD AS REQUIRED FOR BELT DRIVE UNITS

5. TWO ACCESS DOORS FOR SEVICEABILITY OF FAN

6. FLEXIBLE CONNECTION SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURES INSTRUCTIONS AND SHALL NOT BE USED AS A TRANSITION, OFFSET, OR OTHER SIMILAR FITTING.

4 \ INLINE EXHAUST FAN √M100 / NOT TO SCALE

EXHAUST FAN SCHEDULE MANUFACTURER MODEL TYPE ESP RPM VOLTAGE REMARKS PLAN TAG SERVING CFM WATTS 115/1 1,2,3,4,5,6 EF-01 LOREN COOK CO. GN-128 INLINE **UNISEX 01** 70 0.15 750 27 W 750 115/1 EF-02 LOREN COOK CO. GN-128 INLINE UNISEX 02 70 0.15 27 W 1,2,3,4,5,6

1. STANDARD 1 YEAR WARRANTY 2. FAN BACKDRAFT DAMPER

3. DUCTED INLET AND OUTLET

4. NEMA 1 TOGGLE SWITCH

5. SWITCHED WITH LIGHT

6. HANGING KIT WITH VIBRATION ISOLATION

	ELECTRIC UNIT HEATER SCHEDULE													
PLAN ID	PLAN ID MANUFACTURER MODEL KW VOLTAGE AMPS SERVING CONTROL SETPOINT REMARKS													
UH-1	MARKEL	H3327TD-RP	4.8	240/1	20	PLUMBING CHASE 03	BUILT IN	40 F	1,2,3					

1. HEATER SHALL BE CONTROLLED BY A BUILT IN THERMOSTAT

2. SURFACE MOUNTED BOX

3. WHITE FINISH

GRILLE, REGISTER & DIFFUSER SCHEDULE							
PLAN ID	MANUF	MODEL	SERVICE	FACE	NECK	REMARKS	
E1	PRICE	98	EXHAUST	10x10	8x8	1,2,3,4	

1. PRIMER FINISH 2. WALL MOUNTED

3. 45 DEGREE DEFLECTION BLADES 4. 1/2" BLADE SPACING



SEQUENCE OF OPERATION

1. EXHAUST FANS (EF-01 & EF-02):

THESE FANS SHALL BE TIED TO THE LIGHT MOTION SENSOR IN EACH CORRESPONDING RESTROOM AND SHALL TURN ON AND OFF WITH THE LIGHT MOTION SENSOR. COORDINATE WITH E.C. TO THE FANS TO THE LIGHT CIRCUIT.

2. UNIT HEATER (UH-1):

THIS UNIT HEATER SHALL HAVE AN INTEGRAL THERMOSTAT. THE THERMOSTAT SHALL BE SET AT 40 DEG F (ADJ). THE UNIT SHALL TURN ON AND OFF AS NECESSARY BASED ON SPACE TEMPERATURE TO MAINTAIN SETPOINT.

MECHANICAL LEGEND

EXHAUST FAN

EXHAUST AIR

ELECTRIC UNIT HEATER

CUBIC FEET PER MINUTE

KILOWATTS

RECTANGULAR DUCT NOTATION

MECHANICAL SHEET INDEX

M100 MECHANICAL PLAN



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date: 08/23/2024 commission: 24-140

MECHANICAL PLAN

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1. ADD (1) 20 AMP DUPLEX RECEPTACLE AND FACEPLATE ON A DEDICATED CIRCUIT, INCLUDE (1) 20AMP SINGLE POLE BREAKER, BOX, PLATE, 3/4" CONDUIT AND (3) #12 WIRE APPROXIMATELY 100FT IN LENGTH, INCLUDE ALL LABOR AND MATERIAL. 2. ADD (1) EXIT LIGHT FIXTURE IN CEILING, CONNECT TO CIRCUIT, INCLUDE BOX, MOUNTING DEVICE, 3/4" CONDUIT AND (3) #12 WIRE APPROXIMATELY 50FT IN LENGTH, INCLUDE ALL LABOR AND MATERIAL. 3. ADD (1) EMERGENCY BATTERY LIGHT FIXTURE IN CEILING, CONNECT TO EXISTING CIRCUIT, INCLUDE BOX, MOUNTING DEVICE, 3/4" CONDUIT AND (3) #12 WIRE APPROXIMATELY 50FT IN LENGTH, INCLUDE ALL LABOR AND MATERIAL. 1. LINK TRADE PERMITS WITH THE BUILDING PERMIT. 2.ALL PRE-WIRED EQUIPMENT SHALL BE LISTED BY STATE OF NC APPROVED 3RD PARTY AGENCY, [NEC 90.7;110.3(B)] 3. CLEARANCE REQUIRED AT ELECTRICAL EQUIPMENT, (NEC 110.26). 4. ALL GROUNDING AND BONDING REQUIRED TO COMPLY WITH NEC ARTICLE 250, (NEC 250.1 5. FLEXIBLE CORDS SHALL NOT PASS THROUGH CEILINGS, WALLS OR FLOORS, (NEC 400.8) 6. ALL WIRING, INCLUDING LOW VOLTAGE, DATA, PHONE, FIRE ALARM, SECURITY, HVAC CONTROLS, AND POWER SHALL BE PERMITTED AND INSPECTED PER NC GENERAL STATUTES PER COUNTY, AND CITY 7. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE LABEL LISTED BY A NORTH CAROLINA APPROVED THIRD PARTY TESTING AGENCY. METHOD OF COMPLIANCE: ENERGY CODE: X PRESCRIPTIVE PERFORMANCE ASHRAE90.1: PRESCRIPTIVE PERFORMANCE LIGHTING SCHEDULE (EACH FIXTURE TYPE) LAMP TYPE REQUIRED IN FIXTURE NUMBER OF LAMPS IN EACH FIXTURE BALLAST TYPE IN FIXTURE NUMBER OF BALLAST IN FIXTURE TOTAL WATTAGE PER FIXTURE TOTAL INTERIOR WATTAGE SPECIFIED VERSUS ALLOWED: TOTAL EXTERIOR WATTAGE SPECIFIED VERSUS ALLOWED: ADDITIONAL PRESCRIPTIVE COMPLIANCE C406.2 MORE EFFICIENT HVAC PERFORMANCE X C406.3 REDUCED LIGHTING POWER DENSITY SYSTEM C406.4 ENHANCED LIGHTING CONTROLS C406.5 ON-SITE SUPPLY OF RENEWABLE ENERGY C406.6 DEDICATED OUTDOOR AIR SYSTEM FOR CERTAIN HVAC EQUIPMENT C406.7 HIGH-EFFICIENCY SERVICE WATER HEATING TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE THERMAL ENVELOPE REQUIREMENTS OF THE STATE OF NORTH CAROLINA 2018 ENERGY CODE NAME: CHRISTOPHER R STROUPE TITLE: ENGINEER

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

REFER TO FIXTURE SCHEDULE

ELECTRICAL SHEET SCHEDULE

E0.1 SYMBOL LEGENDS AND ABBREVIATIONS

E2.0 ELECTRICAL RISER DIAGRAM & SCHEDULES

E0.0 ELECTRICAL COVER SHEET

E1.0 ELECTRICAL PLANS

E2.1 ELECTRICAL DETAILS

E2.2 ELECTRICAL DETAILS

267 W SPECIFIED VS 290 W ALLOWED

30 W SPECIFIED VS 660 W ALLOWED

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CONSULTANT ENGINEERING SERVICE, INC. PLUMBING * MECHANICAL * ELECTRICA Phone: 336.724.0139 Winston Salem, NC 27101 CES LICENSE NUMBER (NC) F-0238 CES LICENSE NUMBER (VA) 1105927 PROJECT NO. REH/GE CRS **APPROVED** 15886 08/23/2024

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Revisions Description date: 08/23/2024 commission: 24-140 sheet title: ELECTRICAL COVER SHEET

sheet no.:

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