

OCCUPANT DOOR LOAD DATA

DOOR NUMBER	REQ'D. EXIT	CLEAR DOOR WIDTH	EGRESS WIDTH PER OCCUPANT	MAX OCCUPANT LOAD	ACTUAL OCCUPANT LOAD	PERCENTAGE OF REQ'D. CAPACITY	PANIC HARDWARE REQ'D.	DELAYED EGRESS LOCKS	AMOUNT OF TIME DELAY	ELECTRO-MAGNETIC LOCKS	HOLD OPEN DEVICE
1	YES	72"	0.2"	360	128	35.5%	NO	NO	N/A	NO	NO
2	YES	36"	0.2"	180	128	71.1%	YES	NO	N/A	NO	NO

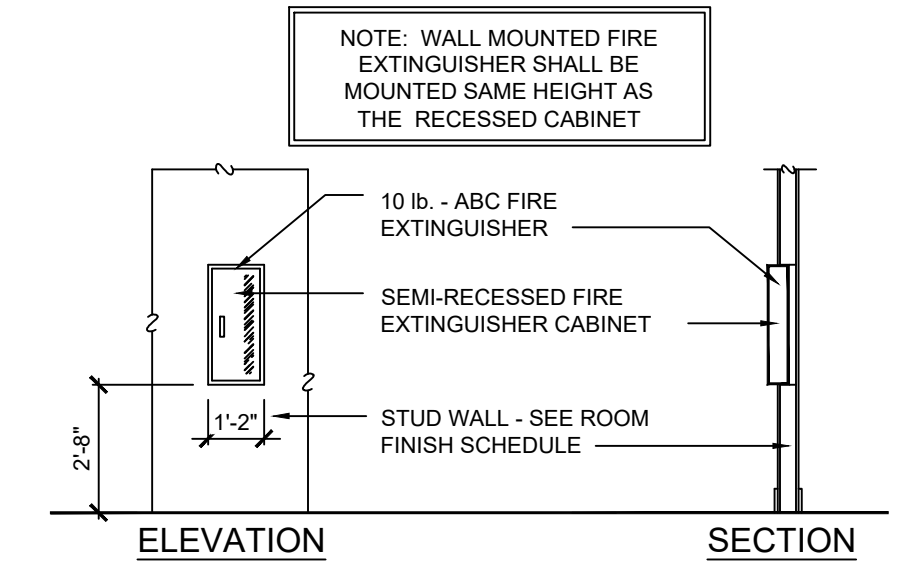
ALL OTHER DOORS ARE NOT REQUIRED EXITS

LEGEND

SYMBOL	DESCRIPTION
	ABC TYPE FIRE EXTINGUISHER
	ROUTE OF EXIT ACCESS TRAVEL DISTANCE
	COMBINATION EXIT AND EMERGENCY LIGHT
	EMERGENCY LIGHT WITH BATTERY BACKUP
	REMOTE EMERGENCY EGRESS LIGHT POWERED BY INTERIOR EMERGENCY LIGHT BATTERY PACK, SUITABLE FOR WET/DAMP LOCATION
	NL EMERGENCY LIGHT

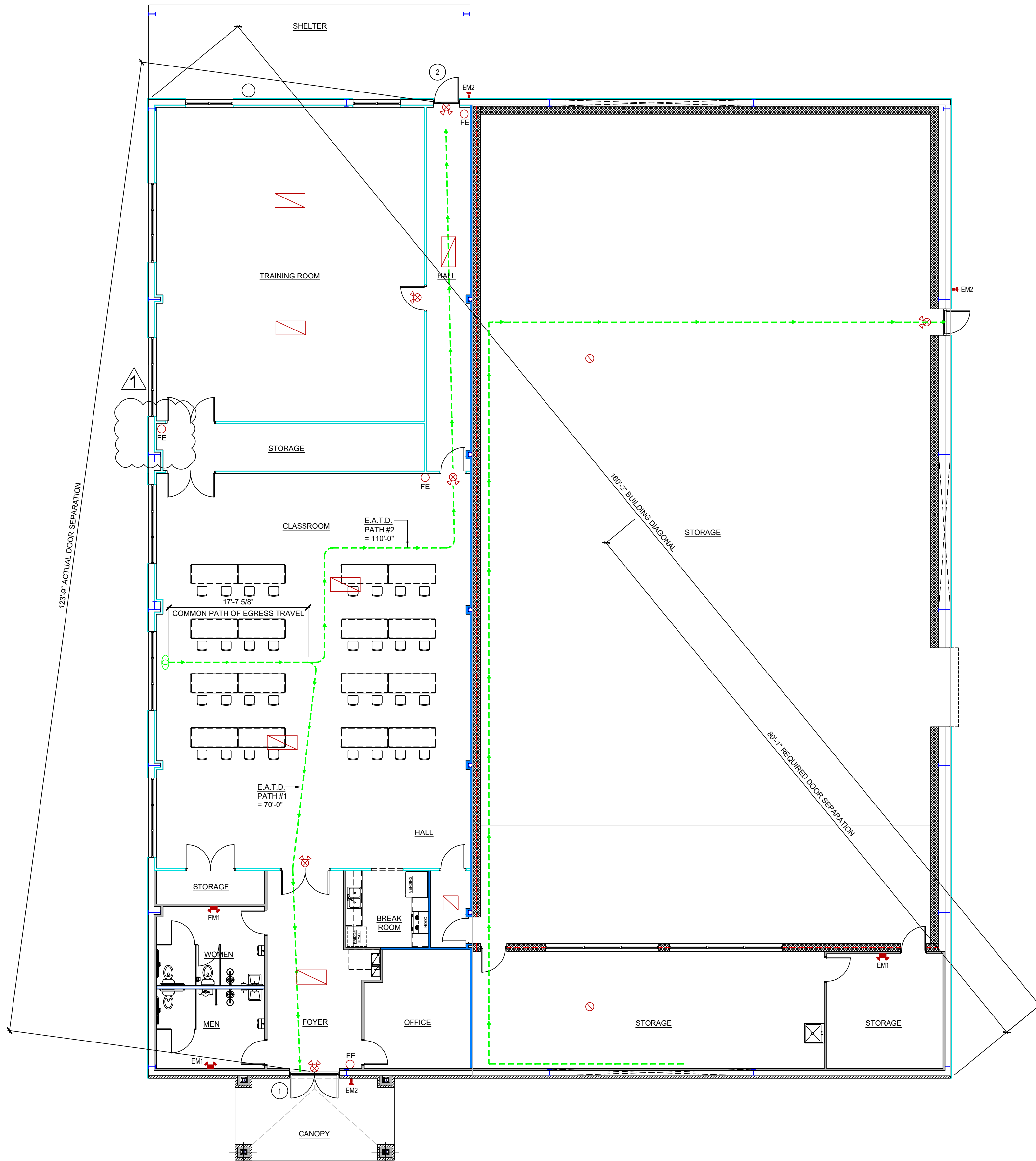
WALL LEGEND

SYMBOL	DESCRIPTION
	BRICK VENEER
	12" CMU BLOCK WALL W/ GROUT FILLED CELLS TO 12'-8" A.F.F.
	2 HR. RATED, 12" CMU BLOCK WALL W/ GROUT FILLED CELLS TO ROOF DECKING
	METAL BUILDING WALL 8" GIRT DEPTH, 1-1/2" EXTERIOR WALL PANEL
	LIGHT GAUGE METAL STUDS @ 16" O.C. SEE SH. S-2 FOR STUD SIZES AND HEIGHTS
	LIGHT GAUGE METAL STUDS @ 16" O.C. SEE SH. S-2 FOR STUD SIZES AND HEIGHTS
	LIGHT GAUGE METAL STUDS @ 16" O.C. FRAMED TO UNDERSIDE OF ROOF DECK ABOVE. SEE SH. S-2 FOR STUD SIZES
	PLUMBING WALL LIGHT GAUGE METAL STUDS @ 16" O.C. SEE SH. S-2 FOR STUD SIZES AND HEIGHTS



DETAIL SCALE: 1/4" = 1'-0"
FIRE EXTINGUISHER CABINET INSTALLATION

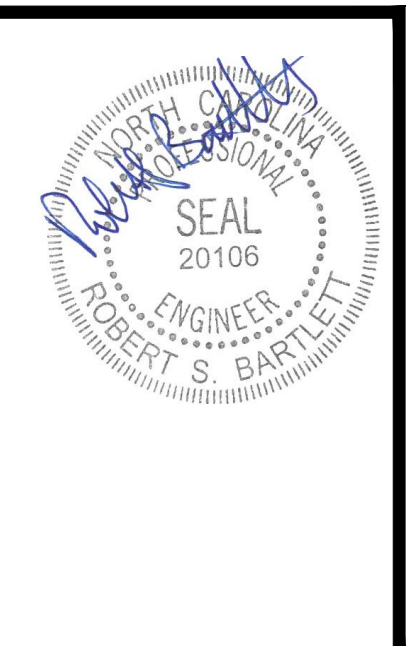
OCCUPANT LOAD CALCULATIONS BASED ON TRAINING, CLASSROOM & OFFICES	
B OCCUPANCY	5,095 SQ. FT. GROSS 100 SQ. FT. PER OCCUPANT TOTAL OCCUPANCY = 51
TOTAL OCCUPANT LOAD = 51	



LIFE SAFETY PLAN SCALE: 1/8" = 1'-0"
TOTAL SQ. FT. = 13,306

Wilson County Sheriff's Office
PO Box 1666 100 E. Green St. Wilson, NC
Office 252.237.2116 Fax 252.399.2871

Owner: **BARTLETT**
ENGINEERING & SURVEYING, PC
V. 02/10/2024
P. 02/07/2025
Wilson County Sheriff's Office
License # C-1051



Rev.	Date:	Description:
1	02.24.25	AS PER COUNTY COMMENTS

Title Sheet: LIFE SAFETY PLAN
Project: Wilson County Sheriff's Office Training Facility
2764 Commerce Road Wilson, NC 27893

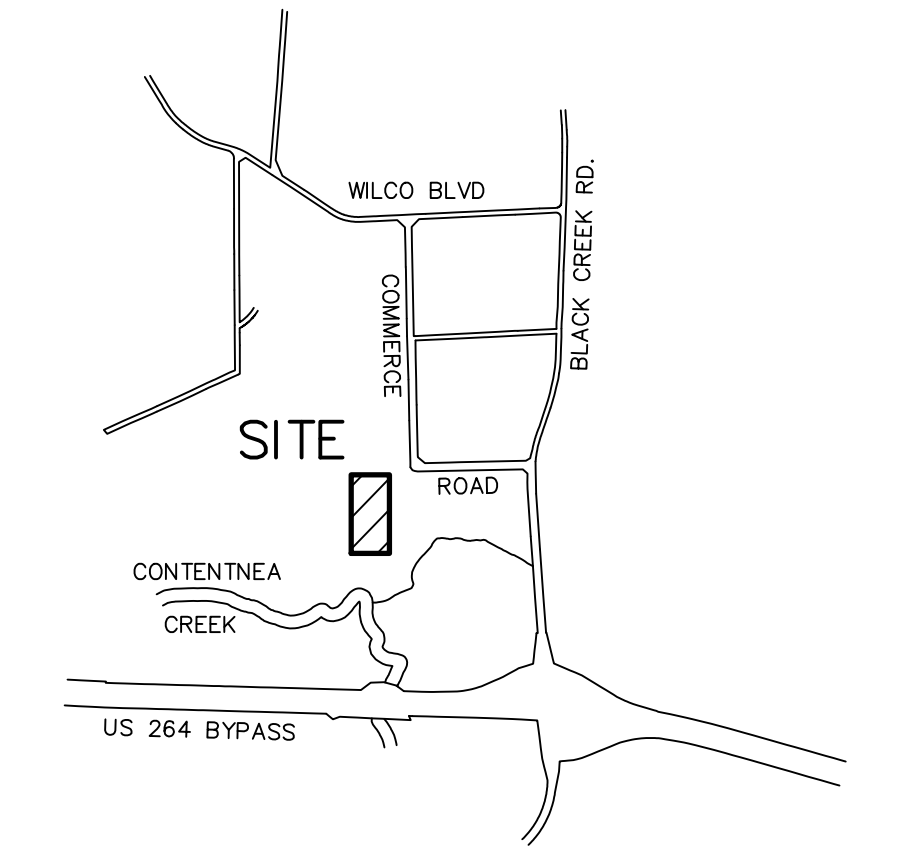
Drawn by: PADEN R.
Issue Date: 02.07.2025
Project Number: 24-102
Sheet: LS-1

STANDARD NOTES

AREAS COMPUTED BY COORDINATE CALCULATIONS
 NO GRID MONUMENT FOUND WITHIN 2000'
 ALL DISTANCES SHOWN ARE HORIZONTAL
 ALL RIGHTS-OF-WAY ARE PUBLIC UNLESS NOTED OTHERWISE
 NO WETLANDS HAVE BEEN DELINEATED.
 A PORTION OF THE SUBJECT PROPERTY IS LOCATED WITHIN A FLOOD HAZARD AREA, MAP No. 3720372000K, DATED 4/16/13. BASE FLOOD ELEV.=86.8
 A FLOODPLAIN DEVELOPMENT PERMIT IS REQUIRED.
 THIS PROPERTY IS NOT LOCATED IN A PROTECTED WATERSHED AREA
 THERE ARE NO CEMETERIES VISIBLE.
 THIS PROPERTY IS SUBJECT TO ALL RIGHTS-OF-WAY, EASEMENTS, RESTRICTIVE COVENANTS AND ORDINANCES.
 ALL PROPOSED SPOT ELEVATIONS ARE ASPHALT / STONE GRADE, OR AS NOTED.
 ALL OUTDOOR LIGHTING SHALL BE FACED DOWNWARD AWAY FROM RESIDENTIAL PROPERTIES.
 GARBAGE PICK-UP IS BY PRIVATE COLLECTION WITH A DUMPSTER.
 NO BUILDING PERMIT SHALL BE ISSUED PRIOR TO THE PUBLIC SERVICES ENGINEERING DIVISION RECEIVING THE DIGITAL FILE FOR THE ABOVE-REFERENCE SITE PLAN. PLEASE CONTACT JANET HOLLAND AT (252) 399-2215 FOR ADDITIONAL INFORMATION. ALSO ANY CHANGES THROUGHOUT THE DEVELOPMENT PROCESS SHALL REQUIRE AN "AS-BUILT" SITE PLAN PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
 ALL TRAFFIC CONTROL DEVICES, PAVEMENT MARKINGS, SIGNS AND SIGNALS SHALL BE DESIGNED, INSTALLED AND MAINTAINED IN CONFORMANCE WITH THE STANDARDS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL.
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL IN OR ADJACENT TO NCDOT OR CITY R/W. ALL METHODS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.
 ALL LANDSCAPE WARRANTY, MAINTENANCE AND RELATED CERTIFICATIONS SHALL BE FILED WITH DEVELOPMENT SERVICES PRIOR TO ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY. ANY DEVIATION FROM THE APPROVED LANDSCAPE PLAN, SHALL MEET THE STANDARDS SET FORTH IN THE CITY OF WILSON UNIFIED DEVELOPMENT ORDINANCE AND APPROVED BY DEVELOPMENT SERVICES PRIOR TO INSTALLATION. A REVISED LANDSCAPE PLAN MAY BE REQUIRED PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
 A SEDIMENTATION AND EROSION CONTROL PERMIT IS REQUIRED DUE TO DISTURBING MORE THAN ONE ACRE.
 ALL REQUIRED EXITS TO BE HANDICAP ACCESSIBLE.
 ALL HANDICAP ACCESSIBLE AREAS INCLUDING REQUIRED EXITS AND CURB CUTS FOR ACCESS SHALL CONFORM TO THE REQUIREMENTS OF NC BUILDING CODE AND ICC A117.1-2009 AMERICAN NATIONAL STANDARD (ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES). ALL HANDICAP ACCESSIBLE AREAS SHALL NOT EXCEED 1/4" PER FOOT CROSS SLOPE AND 5% LONGITUDINAL SLOPE. MAXIMUM ACCESSIBLE RAMP SLOPE 1:12 AND RAMP RISE GREATER THAN 6 INCHES SHALL HAVE HANDRAILS.
 ELECTRIC SERVICE: METER BASES CANNOT BE MOUNTED ON TRANSFORMERS. CURRENT TRANSFORMERS FOR SERVICES ABOVE 400 AMPERES CAN BE INSTALLED ON POLES, BUILDINGS, OR INSIDE TRANSFORMERS. CHARGES WILL BE DETERMINED WHEN DETAILED INFORMATION IS AVAILABLE. WILSON ENERGY WILL SPOT ALL TRANSFORMER AND METER LOCATIONS. PLEASE NOTIFY WILSON ENERGY OF EXACT ELECTRICAL REQUIREMENTS SUCH AS TOTAL CONNECTED LOAD AND VOLTAGE REQUIREMENTS, I.E. 200 AMPS 120/240 VOLTS, OR 600 AMPS 120/208 VOLTS, OR 1200 AMPS 277/480 VOLTS. ANY TREES OR SHRUBBERY THAT INTERFERES WITH WILSON ENERGY ELECTRICAL LINES IN THE FUTURE WILL BE REMOVED.
 THE UTILITY LOCATIONS SHOWN ON THIS MAP ARE APPROXIMATE ONLY, AND ARE NOT RELIABLE FOR CONSTRUCTION PURPOSES FOR ACTUAL FIELD LOCATIONS. CALL 1-800-632-4949 OR 811 THREE WORKING DAYS MINIMUM PRIOR TO EXCAVATION.
 A REGISTERED ENGINEER OR SURVEYOR SHALL SUBMIT SIGNED AND SEALED CERTIFICATION ATTESTING THAT THE BUILDING IS PROPERLY LOCATED ON THE SITE AND THAT SUCH LOCATION IS IN COMPLIANCE WITH THE APPROVED DEVELOPMENT PLAN PRIOR TO THE APPROVAL OF THE CONSTRUCTION OF THE SURFACE FLOOR SLAB OF THE BUILDING BY THE INSPECTOR.
 CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF RELOCATION OF ANY UTILITY POLES. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING/RELOCATION OF ANY OTHER UTILITIES AS REQUIRED (INCLUDING BUT NOT LIMITED TO MANHOLE TOPS, VALVE BOXES, ETC.)
 ISSUANCE OF A BUILDING PERMIT BASED UPON THIS SITE PLAN SHALL NOT PREVENT PLANNING AND DEVELOPMENT SERVICES FROM THEREAFTER REQUIRING CORRECTION OF ERRORS IN PLANS, CONSTRUCTION OR VIOLATIONS OF THE STATE BUILDING CODE.
 REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.
 A CONSTRUCTION INSPECTION FEE OF \$428.00 MUST BE PAID PRIOR TO ISSUANCE OF A BUILDING PERMIT.
 THIS PROPERTY WILL NOT BE ANNEXED AND WILL NOT HAVE CITY OF WILSON FIRE PROTECTION.

ENGINEER NOTES

CONTRACTOR RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS/CONDITIONS OF ALL ENCROACHMENTS & PERMITS INCLUDING PROVIDING BONDS/INSURANCE IF REQUIRED.
 CONTRACTOR IS RESPONSIBLE FOR COORDINATING REQUIRED INSPECTIONS BY CITY OF WILSON.
 UTILITIES SHOWN ON PLANS ARE LOCATED APPROXIMATELY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES AND SERVICES WHETHER SHOWN ON PLANS OR NOT.
 CONTRACTOR TO BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF THESE FACILITIES IF DAMAGED.
 LOCATION, QUANTITY AND PLACEMENT OF DRAINAGE PIPES AND EROSION CONTROL DEVICES MAY VARY TO BETTER CONFORM TO FIELD CONDITIONS.
 WATER, SEWER, AND STORM DRAINAGE LINES SHOULD BE CONSTRUCTED TO THE FOLLOWING SPECIFICATIONS:
 -MIN. 10' LATERAL SEPARATION BETWEEN WATER/SEWER LINES.
 -MIN. 24" VERT. SEPARATION BETWEEN WATER/SEWER, IF WATER MUST BE PLACED BELOW SEWER, DUCTILE IRON IS REQUIRED ON BOTH LINES. DUCTILE IRON SHOULD EXTEND 10' PAST INTERSECTION ON WATER LINE AND TO THE NEXT MANHOLE ON SEWER LINE PER CITY OF WILSON SPECIFICATIONS.
 -WATER/SEWER CROSSINGS SHALL BE ARRANGED SO THAT SEWER JOINTS ARE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.
 -MIN. 24" VERT. SEPARATION BETWEEN STORM DRAIN AND SAN. SEWER OR DUCTILE IRON IS REQUIRED.
 ALL WORK SHALL CONFORM TO LATEST EDITION OF THE CITY OF WILSON STANDARDS AND SPECIFICATIONS.
 FOR CITY OF WILSON REQUIRED PERMITS AND ASSOCIATED FEES, CONTACT KYLE MANNING, CIVIL ENGINEER III AT (252) 296-3416.



LOCATION MAP NO SCALE

SITE DATA:

TOTAL LOT AREA:	82.4 AC± (GIS)
TOTAL # LOTS:	2
ZONING:	HI
MIN. BLDG. LINES:	FRONT N/A SIDE N/A REAR N/A
PROPOSED BUILDING AREA:	12,545 SF±
PARKING SPACES REQUIRED:	NO REQUIREMENT
PROPOSED PARKING SPACES:	20 - 9x18 1 - H/C SPACE 21 - TOTAL SPACES
MAX. BUILDING HEIGHT:	50'
PROPERTY ADDRESS:	2764 COMMERCE RD
EXISTING LAND USAGE:	LAW ENFORCEMENT TRAINING
PARCEL ID No.:	3720-14-7262, 3720-24-8755
OWNER:	WILSON COUNTY P.O. BOX 1728 WILSON, NC 27893
REFERENCES:	DEED BOOK 989 PAGE 50 DEED BOOK 965 PAGE 350
EXISTING IMPERVIOUS AREA:	40,302 SF±
IMPERVIOUS AREA BEING ADDED:	31,803 SF±
TOTAL IMPERVIOUS AREA AFTER CONSTRUCTION:	72,105 SF± (1.66 AC±)

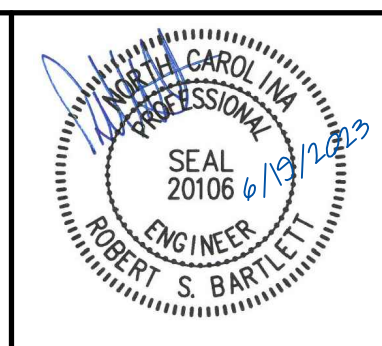
INDEX OF SHEETS

- SP1 COVER SHEET
- SP2 OVERALL SITE
- SP3 EXISTING CONDITIONS AND DEMOLITION PLAN
- SP4 SITE, UTILITIES & LANDSCAPE PLAN
- SP5 GRADING PLAN
- SP6 SEDIMENTATION & EROSION CONTROL PLAN
- SP6A OUTDOOR SHOOTING RANGE IMPROVEMENTS
- DT1 WATER SEARCH & RESCUE TRAINING ACCESS IMPROVEMENTS
- DT2 SITE DETAILS
- DT3 S&E DETAILS
- DT3 NCG01 S&E DETAILS

NCEQ COMMENTS DATED 21 APR 2023
 ADDED FIRE LINE W/HYDRANT 5-1-23
 ADDRESSED ELECT. COMMENT 5-9-23

PROPERTY OWNER:
 WILSON COUNTY
 PO BOX 1728
 WILSON, NC 27893

BARTLETT
 ENGINEERING & SURVEYING, PC
 1906 NASH STREET NORTH
 WILSON, N.C. 27893-1726
 LICENSE# C-1551
 TELE: (252) 399-0704
 FAX: (252) 399-0804
 www.bartletteng.com



TRC APPROVAL CITY COUNCIL APPROVAL

SITE PLAN
 for
SHERIFF'S DEPT.
TRAINING FACILITY
 PROPOSED BUILDING
 2764 COMMERCE RD S
 WILSON, NORTH CAROLINA
 WILSON COUNTY, NORTH CAROLINA

WATERSHED/STORMWATER INFORMATION & CERTIFICATIONS

NEUSE RIVER BASIN MANAGEMENT STRATEGY													
NITROGEN EXPORT CALCULATIONS													
WATERSHED MANAGEMENT DATA													
Catchment Area	Acreage	Maximum Impervious Percentage	Undisturbed Open Space (ac)	Nitrogen Loading (lbs)	Managed Open Space (ac)	Nitrogen Loading (lbs)	Impervious Area (ac)	Nitrogen Loading (lbs)	TOTAL N BMP's (lbs)	TOTAL N BMP's Factor	Nitrogen Reduction (lbs)	TOTAL Nitrogen Loading with BMP's (lbs/acre/yr)	TOTAL Excess Nitrogen (lbs/acre/yr)
Total Project Boundary	82.40	2.00	80.40	80,700	86,840	1,700	38,040	1.00	38,040	1.00	38,040	0.437	-3,165
Nitrogen Reduction from SCM's (lbs)											0.000		
Nitrogen Reduction by Offset Payments											260,600 lbs/yr		
Total Development Acreage											82.40		
BMP	Type	TN Removal Rate											
WP	Wet Pond	30%											
DP	Dry Pond	10%											
SF	Sand Filter	35%											
B	Bioretention	35%											
W	Stormwater Wetland	44%											
LS-FS	Veg Filter Strip	30%											
PRO	Proprietary BMP's	Varies											

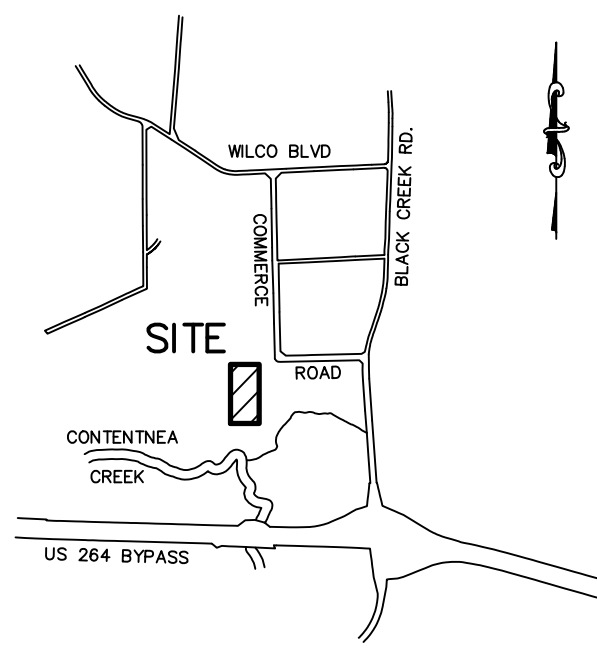
CERTIFICATION OF APPROVAL UNDER NEUSE RIVER BASIN STORMWATER PROGRAM FOR NITROGEN REMOVAL REGULATIONS:

I CERTIFY THAT THE (PLAT/DEVELOPMENT PLAN) SHOWN HEREON COMPLIES WITH THE NEUSE RIVER BASIN STORMWATER PROGRAM FOR NITROGEN REMOVAL REGULATIONS FOR THE CITY OF WILSON.

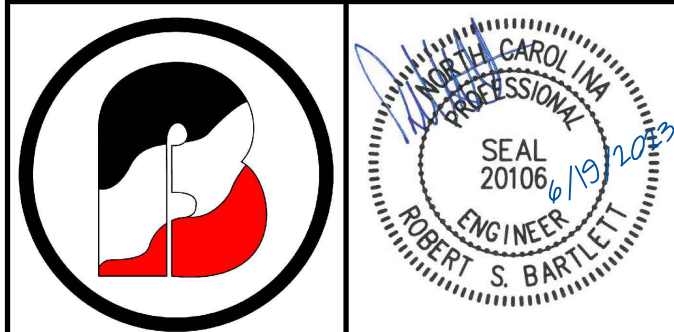
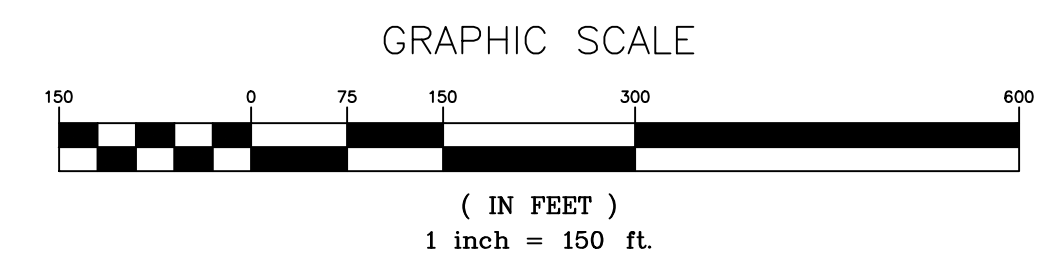
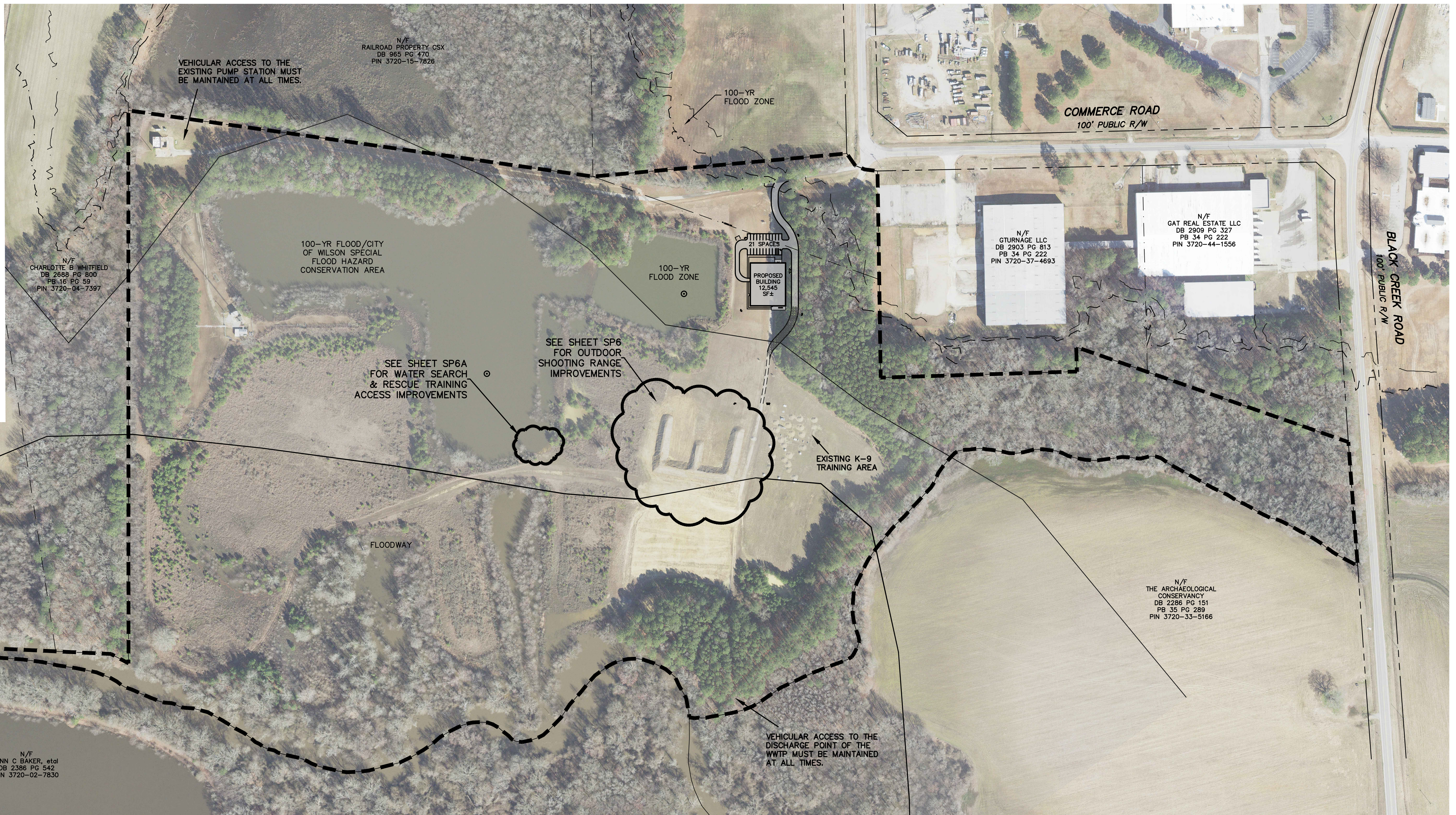
PUBLIC SERVICES/STORMWATER DATE

I CERTIFY THAT THE (PLAT/DEVELOPMENT PLAN) SHOWN HEREON IS EXEMPT FROM THE PEAK FLOW REQUIREMENTS SINCE THE OVERALL IMPERVIOUSNESS OF THE SITE IS LESS THAN 15%.

PUBLIC SERVICES/STORMWATER DATE



LOCATION MAP
NO SCALE



BARTLETT
ENGINEERING & SURVEYING, PC
1906 NASH STREET NORTH
WILSON, N.C. 27893-1726
License No. C-1551
TELE: (252) 399-0704
FAX: (252) 399-0804
www.bartletteng.com

OVERALL SITE

SHERIFF'S DEPT. TRAINING FACILITY
COMMERCE ROAD

DATE: MARCH 2023
SCALE(HORZ): 1"=150'
SCALE(VERT):
REVISIONS: ENGINEERING COMMENT 5-18-2023

PROJECT: 22-481
CLIENT CODE: CONDAW
CADFILE: 22481SP1-REV
FIELD BOOK: 358
DRAWN BY: TRB/LR
SURVEY BY: DAB/DRB
CITY OF WILSON ETJ WILSON COUNTY
NORTH CAROLINA ZONE: HI
PIN # 3720-14-7262 SHEET SP1

P:\CADD\LANDPROJECTS\CONDAW\22481\DWG\22481SP1-REV.DWG, Sun 18, 2023, 1:03PM EST

- NOTES**
- AREAS COMPUTED BY COORDINATE CALCULATIONS.
 - NO GRID MONUMENT FOUND WITHIN 2000'.
 - ALL DISTANCES SHOWN ARE HORIZONTAL UNLESS NOTED OTHERWISE.
 - ALL RIGHTS-OF-WAY ARE PUBLIC UNLESS NOTED OTHERWISE.
 - WETLANDS, IF ANY, HAVE NOT BEEN DELINEATED.
 - A PORTION OF THIS PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZARD AREA (SFHA - 100 YR. FLOOD).
 - THIS PROPERTY IS NOT LOCATED IN A PROTECTED WATERSHED AREA.
 - THERE ARE NO CEMETERIES VISIBLE.
 - THIS PROPERTY IS SUBJECT TO ALL RIGHTS-OF-WAY, EASEMENTS, RESTRICTIVE COVENANTS AND ORDINANCES.
 - A TITLE REPORT HAS NOT BEEN SUPPLIED FOR THIS PROPERTY.
 - COORDINATES SHOWN ON PLAT ARE HORIZONTAL COORDINATES UNLESS STATED OTHERWISE.
 - REFERENCE VERTICAL DATUM IS NAVD 88

SITE DATA

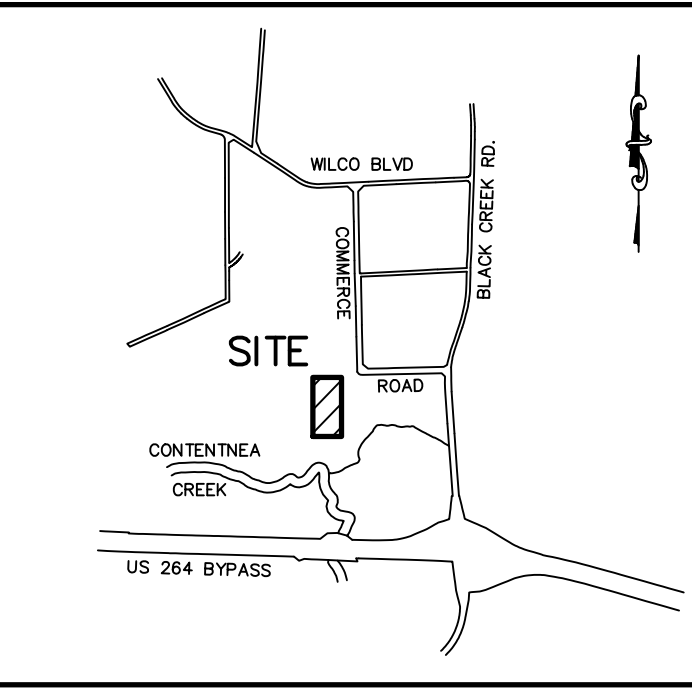
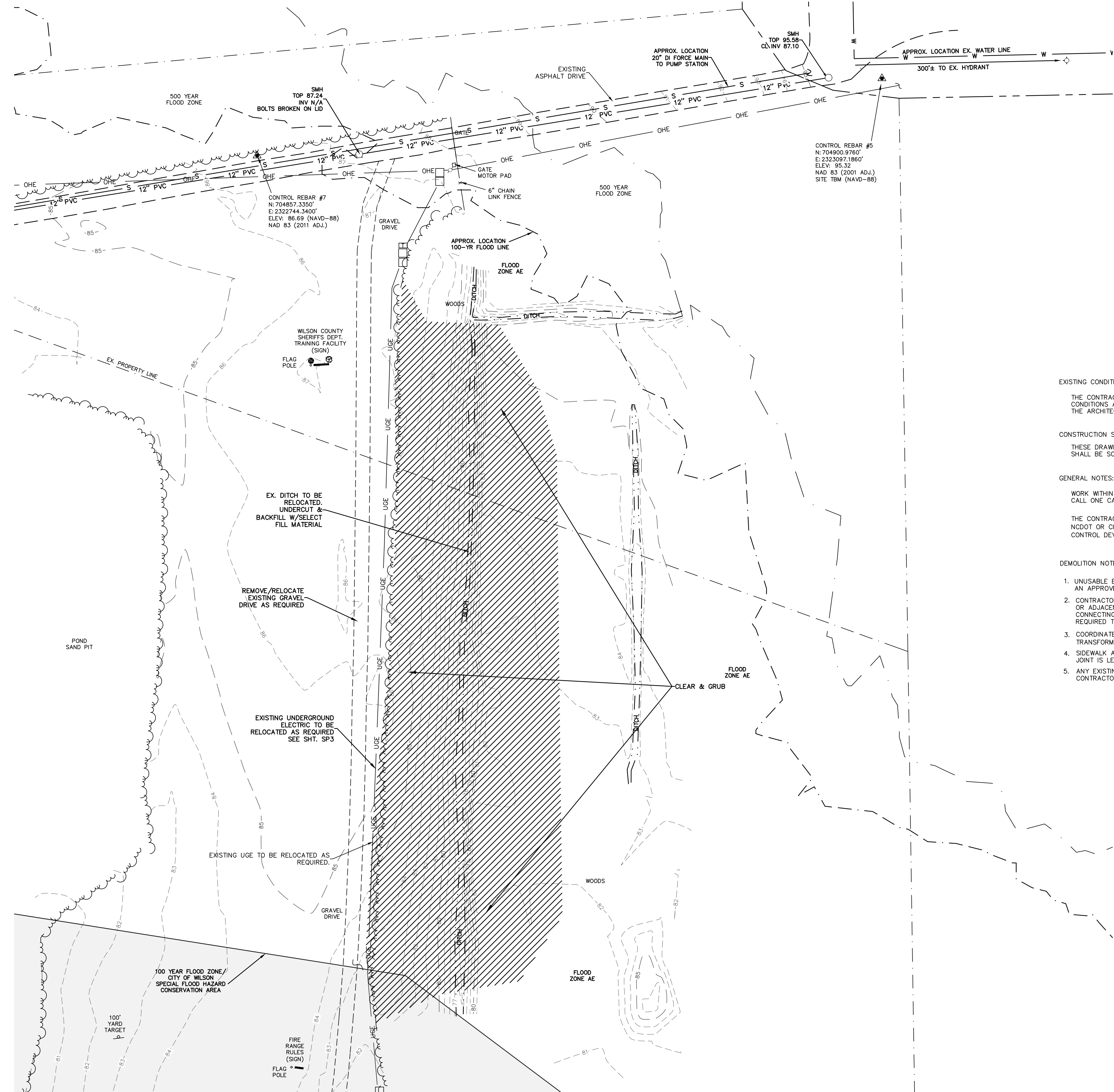
TOTAL AREA 82.4 ACRES (GIS)
 TOTAL # LOTS 2
 ZONING HI
 MIN. BLDG. LINES FRONT N/A
 STREET SIDE N/A
 SIDE N/A
 REAR N/A

SITE LOCATION COMMERCE ROAD

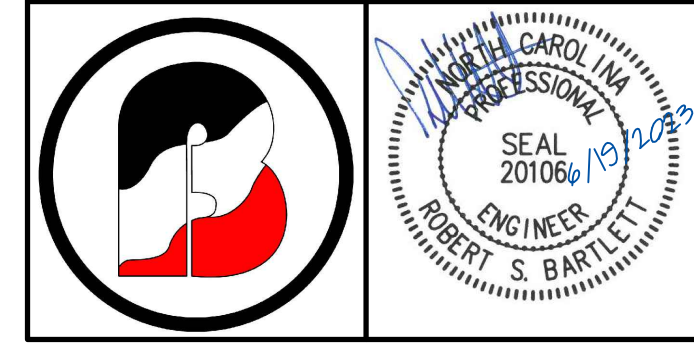
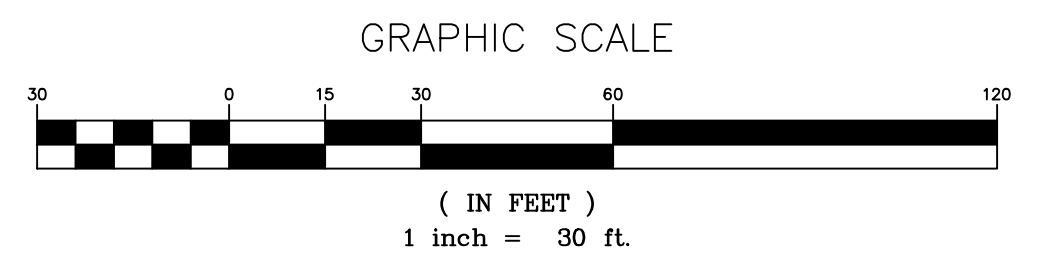
REFERENCES: DEED BOOK 989 PAGE 50
 DEED BOOK 965 PAGE 350

- LEGEND**
- ▲ CONTROL POINT
 - ⊕ EXISTING SIGN
 - ⊞ EXISTING ELECTRIC BOX/TRANSFORMER
 - ⊞ EXISTING TELEPHONE VAULT
 - EXISTING SANITARY SEWER MANHOLE

- LINE LEGEND & ABBREVIATIONS**
- OHE EXISTING OVERHEAD ELECTRIC
 - SD EXISTING STORM DRAIN LINE
 - S EXISTING SANITARY SEWER LINE
 - EXISTING RIGHT-OF-WAY LINE
 - EXISTING PROPERTY LINE
 - EXISTING UNDERGROUND ELECTRIC (APPROX. LOCATION)



- EXISTING CONDITIONS:**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL EXISTING JOB CONDITIONS. ANY ADVERSE CONDITIONS AFFECTING WORK SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER FOR POSSIBLE CLARIFICATION OR RECONCILIATION.
- CONSTRUCTION SAFETY:**
- THESE DRAWINGS DO NOT CONTAIN THE REQUIREMENTS FOR JOB SAFETY. ALL PROVISIONS FOR SAFETY SHALL BE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- GENERAL NOTES:**
- WORK WITHIN THE NCDOT RIGHT-OF-WAY SHALL CONFORM TO NCDOT STANDARDS AND SPECIFICATIONS. CALL ONE CALL CENTER AT 1-800-632-4949 FOR LOCATIONS OF EXISTING UTILITIES PRIOR TO EXCAVATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL IN OR ADJACENT TO NCDOT OR CITY RIGHT-OF-WAY. ALL METHODS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.
- DEMOLITION NOTES:**
- UNUSABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM DEMOLITION SHALL BE DISPOSED OF AT AN APPROVED PERMITTED OFF-SITE LOCATION BY CONTRACTOR.
 - CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL RAISE OR LOWER TOPS OF EXISTING MANHOLES AS REQUIRED TO MATCH FINISHED GRADES.
 - COORDINATE WITH THE LOCAL UTILITY PROVIDER FOR REMOVAL/RELOCATION OF EXISTING ELECTRICAL TRANSFORMERS AND/OR LIGHT POLES.
 - SIDEWALK AND CURB & GUTTER TO BE REMOVED TO NEAREST JOINT OR SAW-CUT IN A MANNER SUCH THAT NO JOINT IS LESS THAN 5 FEET.
 - ANY EXISTING CURB & GUTTER OR ASPHALT DAMAGED DURING CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.



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**EXISTING
 CONDITIONS &
 DEMOLITION PLAN**

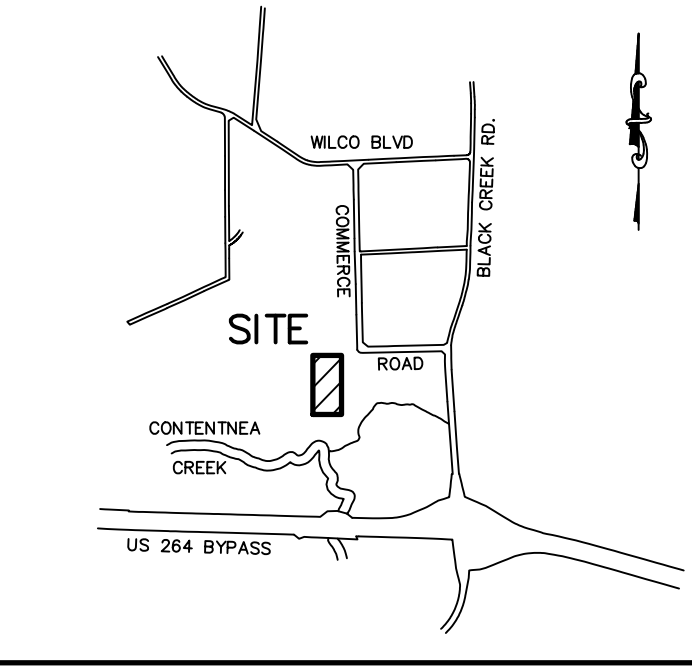
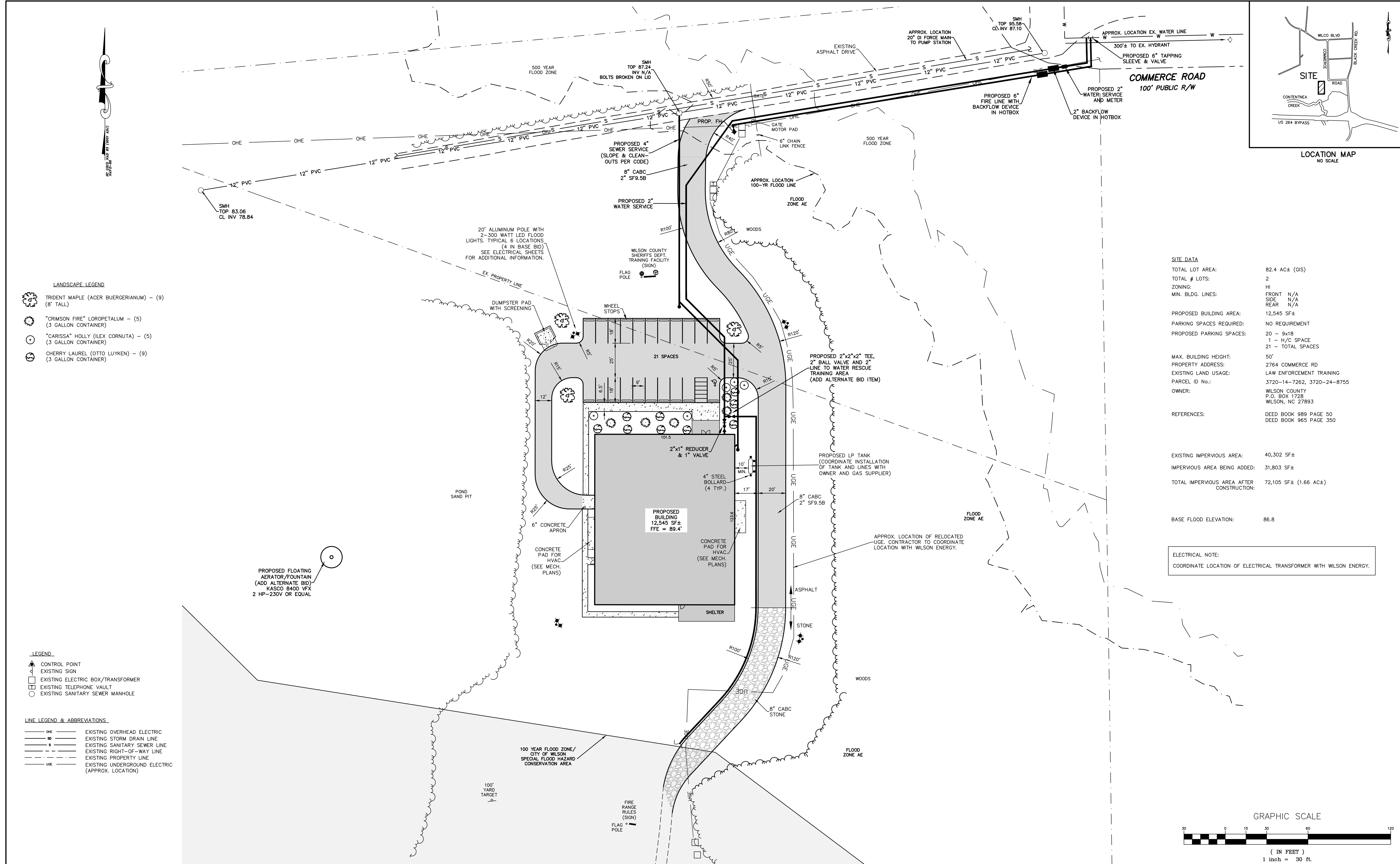
**SHERIFF'S DEPT. TRAINING FACILITY
 COMMERCE ROAD**

DATE: MARCH 2023
 SCALE(HORZ): 1"=30'
 SCALE(VERT):
 REVISIONS:

PROJECT: 22-481
 CLIENT CODE: CONDAW
 CADFILE: 22481SP1-REV
 FIELD BOOK: 358
 DRAWN BY: TRB
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CITY OF WILSON ETJ WILSON COUNTY
 NORTH CAROLINA ZONE: HI
 PIN # 3720-14-7262 SHEET SP2

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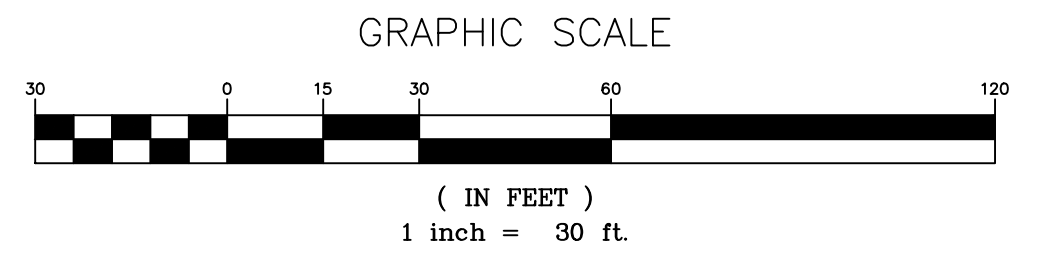


SITE DATA

TOTAL LOT AREA:	82.4 AC± (GIS)
TOTAL # LOTS:	2
ZONING:	HI
MIN. BLDG. LINES:	FRONT N/A SIDE N/A REAR N/A
PROPOSED BUILDING AREA:	12,545 SF±
PARKING SPACES REQUIRED:	NO REQUIREMENT
PROPOSED PARKING SPACES:	20 - 9x18 1 - H/C SPACE 21 - TOTAL SPACES
MAX. BUILDING HEIGHT:	50'
PROPERTY ADDRESS:	2764 COMMERCE RD
EXISTING LAND USAGE:	LAW ENFORCEMENT TRAINING
PARCEL ID No.:	3720-14-7262, 3720-24-8755
OWNER:	WILSON COUNTY P.O. BOX 1728 WILSON, NC 27893
REFERENCES:	DEED BOOK 989 PAGE 50 DEED BOOK 965 PAGE 350

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IMPERVIOUS AREA BEING ADDED:	31,803 SF±
TOTAL IMPERVIOUS AREA AFTER CONSTRUCTION:	72,105 SF± (1.66 AC±)
BASE FLOOD ELEVATION:	86.8

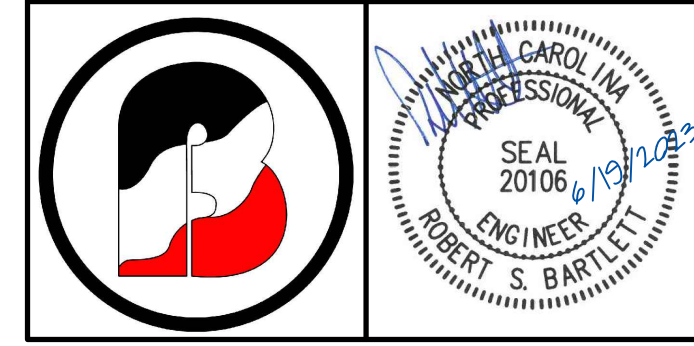
ELECTRICAL NOTE:
COORDINATE LOCATION OF ELECTRICAL TRANSFORMER WITH WILSON ENERGY.



- LANDSCAPE LEGEND**
- TRIDENT MAPLE (ACER BUERGERIANUM) - (9) (8' TALL)
 - "CRIMSON FIRE" LOROPETALUM - (5) (3 GALLON CONTAINER)
 - "CARISSA" HOLLY (ILEX CORNUTA) - (5) (3 GALLON CONTAINER)
 - CHERRY LAUREL (OTTO LUYKEN) - (9) (3 GALLON CONTAINER)

- LEGEND**
- CONTROL POINT
 - EXISTING SIGN
 - EXISTING ELECTRIC BOX/TRANSFORMER
 - EXISTING TELEPHONE VAULT
 - EXISTING SANITARY SEWER MANHOLE

- LINE LEGEND & ABBREVIATIONS**
- OHE EXISTING OVERHEAD ELECTRIC
 - SD EXISTING STORM DRAIN LINE
 - S EXISTING SANITARY SEWER LINE
 - R-O-W EXISTING RIGHT-OF-WAY LINE
 - P EXISTING PROPERTY LINE
 - UOE EXISTING UNDERGROUND ELECTRIC (APPROX. LOCATION)



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ENGINEERING & SURVEYING, PC
1906 NASH STREET NORTH
WILSON, N.C. 27893-1726
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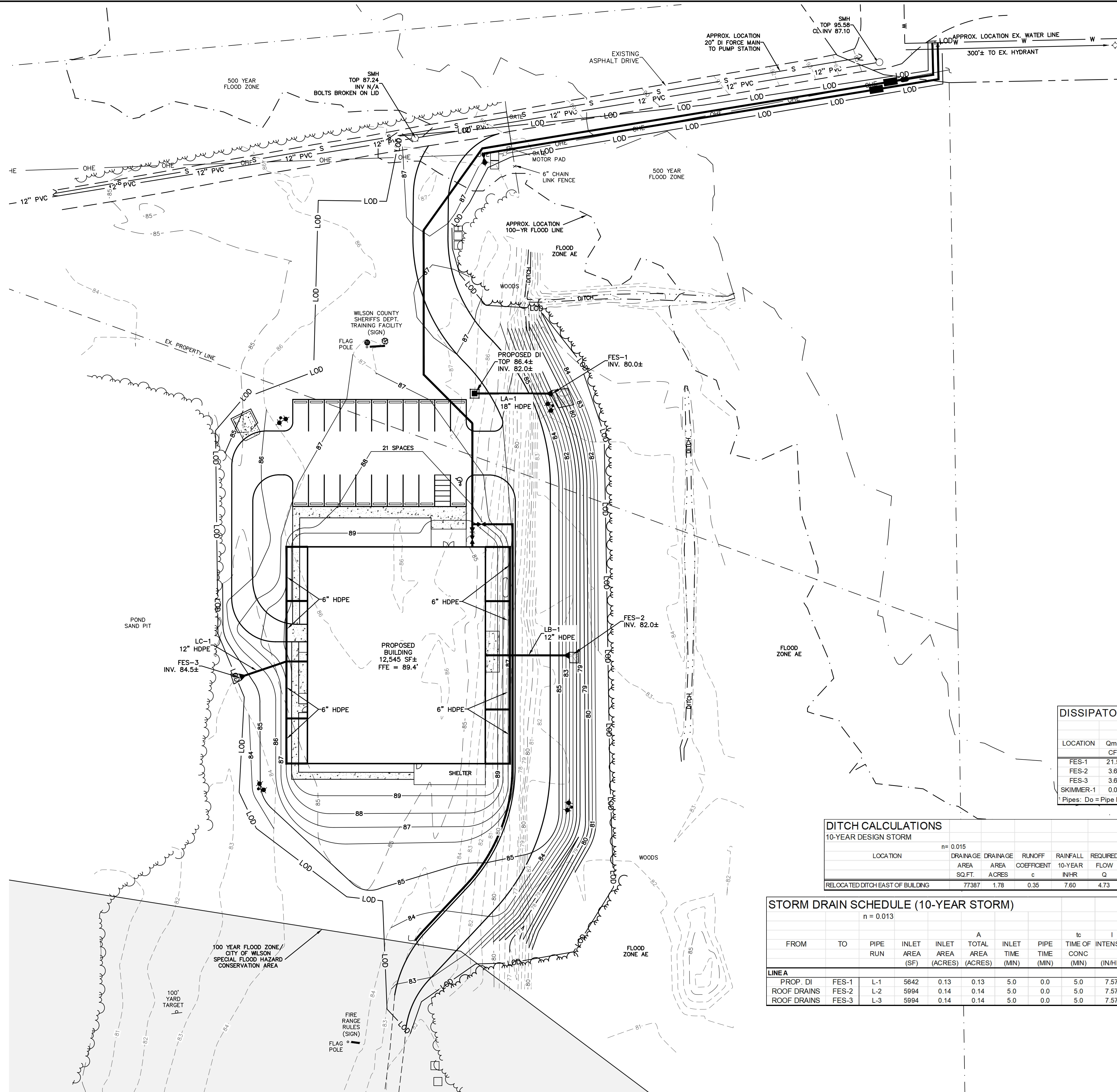
SITE, UTILITIES & LANDSCAPE PLAN

SHERIFF'S DEPT. TRAINING FACILITY
COMMERCE ROAD

DATE: MARCH 2023
SCALE(HORZ): 1"=30'
SCALE(VERT):
REVISIONS: ADDED FIRE LINE W/HYDRANT 5-1-23

PROJECT: 22-481
CLIENT CODE: CONDAW
CADFILE: 22481SP1-REV
FIELD BOOK: 358
DRAWN BY: TRB/LR
SURVEY BY: DAB/DRB
CITY OF WILSON ETJ WILSON COUNTY
NORTH CAROLINA ZONE: HI
PIN # 3720-14-7262 SHEET SP3

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SITE NOTES:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL IN OR ADJACENT TO NCDOT OR TOWN RIGHT-OF-WAY. ALL METHODS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.

CONTRACTOR TO COORDINATE INSTALLATION OF CONDUITS FOR PHONES & LIGHTING.

UNUSABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OF AT AN APPROVED PERMITTED OFF-SITE LOCATION BY CONTRACTOR.

CONTRACTOR RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS/ CONDITIONS OF ALL ENCROACHMENTS & PERMITS INCLUDING PROVIDING BONDS/INSURANCE IF REQUIRED.

CONTRACTOR IS RESPONSIBLE FOR COORDINATING REQUIRED INSPECTIONS.

CALL ONE CALL CENTER AT 1-800-632-4949 OR 811 FOR LOCATIONS OF EXISTING UTILITIES THREE WORKING DAYS MINIMUM PRIOR TO EXCAVATION.

EXCAVATION AND GRADING PLAN NOTES:

ALL AREAS NOT COVERED BY BUILDING OR PAVING TO BE GRASSED, LANDSCAPED OR LEFT NATURAL AS INDICATED.

CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL RAISE OR LOWER TOPS OF EXISTING MANHOLES AS REQUIRED TO MATCH FINISHED GRADES.

BEFORE ANY MACHINE WORK IS DONE, CONTRACTOR SHALL STAKE OUT AND MARK ITEMS ESTABLISHED BY THE SITE PLAN. CONTROL POINTS SHALL BE PRESERVED AT ALL TIMES DURING THE COURSE OF THE PROJECT. LACK OF THE PROPER WORKING POINTS AND GRADE STAKES MAY REQUIRE CESSATION OF OPERATIONS UNTIL SUCH POINTS AND GRADES HAVE BEEN REPLACED TO THE OWNERS SATISFACTION.

EXISTING CONDITIONS:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL EXISTING JOB CONDITIONS. ANY ADVERSE CONDITIONS AFFECTING WORK SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR POSSIBLE CLARIFICATION OR RECONCILIATION.

CONSTRUCTION SAFETY:

THESE DRAWINGS DO NOT CONTAIN THE REQUIREMENTS FOR JOB SAFETY. ALL PROVISIONS FOR SAFETY SHALL BE SOLE RESPONSIBILITY OF THE CONTRACTOR.

STRUCTURAL FILL:

SEE SPECIFICATIONS FOR STRUCTURAL FILL INFORMATION.

OFFSITE BORROW / TRENCH BORROW:

OFFSITE BORROW MATERIAL PLACED ON SITE SHOULD BE LOW PLASTICITY (PI LESS THAN 25 AND LL LESS THAN 50) AND SHALL BE FREE OF ORGANIC MATERIAL OR DEBRIS. PLACE FILL IN 8" TO 10" LOOSE LIFTS AND COMPACT TO 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY, ASTM D698. THE MOISTURE CONTENT OF THE SOIL SHOULD BE MAINTAINED WITHIN ± 3 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT DETERMINED BY THE SAME TEST. OFF-SITE BORROW MATERIAL TO BE OBTAINED FROM A PERMITTED SOURCE.

ADA AND LEGAL DISCLAIMER:

THIS DOCUMENT IS NOT REPRESENTED TO COMPLY WITH ALL REQUIREMENTS CONTAINED IN THE ADA OR OTHER LAWS. ENGINEERS ARE NOT LICENSED TO INTERPRET LAWS OR GIVE ADVICE CONCERNING LAWS. THE OWNER SHOULD HAVE THIS DOCUMENT REVIEWED BY HIS ATTORNEY TO DETERMINE LEGAL COMPLIANCE.

GAS NOTE:

THERE SHOULD BE A MINIMUM OF 3 FT OF SUITABLE FILL BETWEEN THE EXISTING MAIN AND ANY ROCK, CONCRETE OR ASPHALT INSTALLED.

DISSIPATOR PAD/OUTLET PROTECTION SCHEDULE
(NYDOT METHOD)

LOCATION	Qmax CFS	Q10 CFS	V10 FPS	Vmax FPS	PIPE DIA ¹ INCHES	ZONE	NUMBER OF PIPES	DISTANCE CENT-CENT FEET	APRON LENGTH ² (La) FEET	APRON WIDTH ³ FEET	CLASS STONE	DEPTH ¹ INCHES	D50 STONE SIZE	
FES-1	21.50	0.70	0.10	12.20	18	2	6	1	4	9	10	B	22	8
FES-2	3.60	0.90	0.10	4.50	12	2	6	1	1	6	5	B	22	8
FES-3	3.60	0.90	0.10	4.50	12	2	6	1	1	6	5	B	22	8
SKIMMER-1	0.02	0.01	0.10	1.00	6	2	6	1	1	3	3	B	22	8

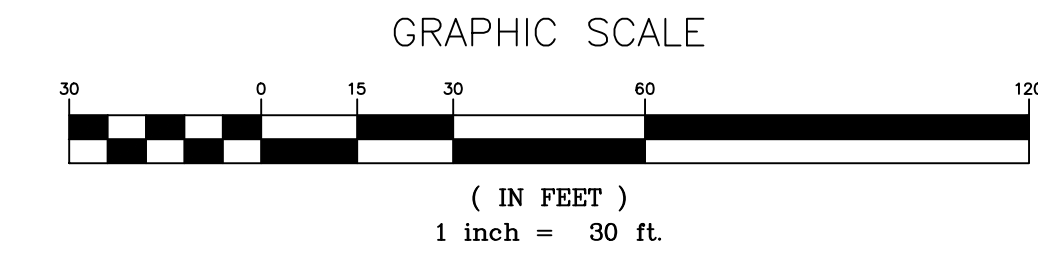
¹ Pipes: Do = Pipe Diameter; Channels: Do = Square root of the cross sectional area of flow at channel outlet

DITCH CALCULATIONS
10-YEAR DESIGN STORM
n = 0.015

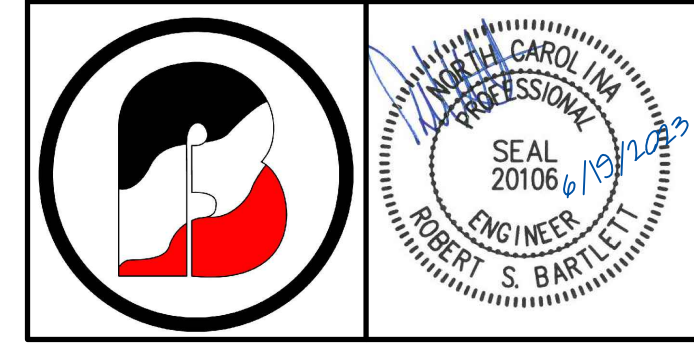
LOCATION	DRAINAGE AREA SQ.FT.	DRAINAGE AREA ACRES	RUNOFF COEFFICIENT c	RAINFALL 10-YEAR IN/HR	REQUIRED FLOW Q	DITCH SLOPE s	BOTTOM WIDTH d	FLOW DEPTH y	SIDE SLOPE M	WETTED PERIMETER P	HYDRAULIC RADIUS R	ACTUAL VELOCITY V	TOP WIDTH Q	SHEAR STRESS τ	PERM. LINER REQUIRED	TEMP. LINER REQUIRED	TEMPORARY LINER TYPE		
RELOCATED DITCH EAST OF BUILDING	77387	1.78	0.35	7.60	4.73	0.0040	0	0.72	3	1.54	4.54	0.34	3.06	4.73	4.30	0.18	NO	YES	STRAW W/ NET

STORM DRAIN SCHEDULE (10-YEAR STORM)
n = 0.013

FROM	TO	PIPE RUN	INLET AREA (SF)	INLET AREA (ACRES)	A TOTAL AREA (ACRES)	INLET TIME (MIN)	PIPE TIME (MIN)	t _c TIME OF CONC (MIN)	I INTENSITY (IN/HR)	C _c COEFF	Q ₁₀ RUNOFF (CFS)	SLOPE (FT/FT)	D _{theo} (INCHES)	SIZE (INCHES)	V _{full} (FT/SEC)	Q _{full} (CFS)	LENGTH (FT)	SEGMENT TIME (MIN)	UPPER INVERT	LOWER INVERT	
PROP DI	FES-1	L-1	5642	0.13	0.13	5.0	0.0	5.0	7.57	0.73	0.73	0.7	0.0421	5.0	18	12.2	21.5	47.4	0.1	82.00	80.00
ROOF DRAINS	FES-2	L-2	5994	0.14	0.14	5.0	0.0	5.0	7.57	0.90	0.90	0.9	0.0100	7.3	12	4.5	3.6	36.0	0.1	82.36	82.00
ROOF DRAINS	FES-3	L-3	5994	0.14	0.14	5.0	0.0	5.0	7.57	0.90	0.90	0.9	0.0100	7.3	12	4.5	3.6	28.0	0.1	84.78	84.50



- LEGEND**
- ▲ CONTROL POINT
 - ⊕ EXISTING SIGN
 - ⊞ EXISTING ELECTRIC BOX/TRANSFORMER
 - ⊞ EXISTING TELEPHONE VAULT
 - EXISTING SANITARY SEWER MANHOLE
- LINE LEGEND & ABBREVIATIONS**
- OHE EXISTING OVERHEAD ELECTRIC
 - SD EXISTING STORM DRAIN LINE
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GRADING & DRAINAGE PLAN

SHERIFF'S DEPT. TRAINING FACILITY
COMMERCE ROAD

DATE: MARCH 2023
SCALE(HORIZ): 1"=30'
SCALE(VERT):
REVISIONS:

PROJECT: 22-481
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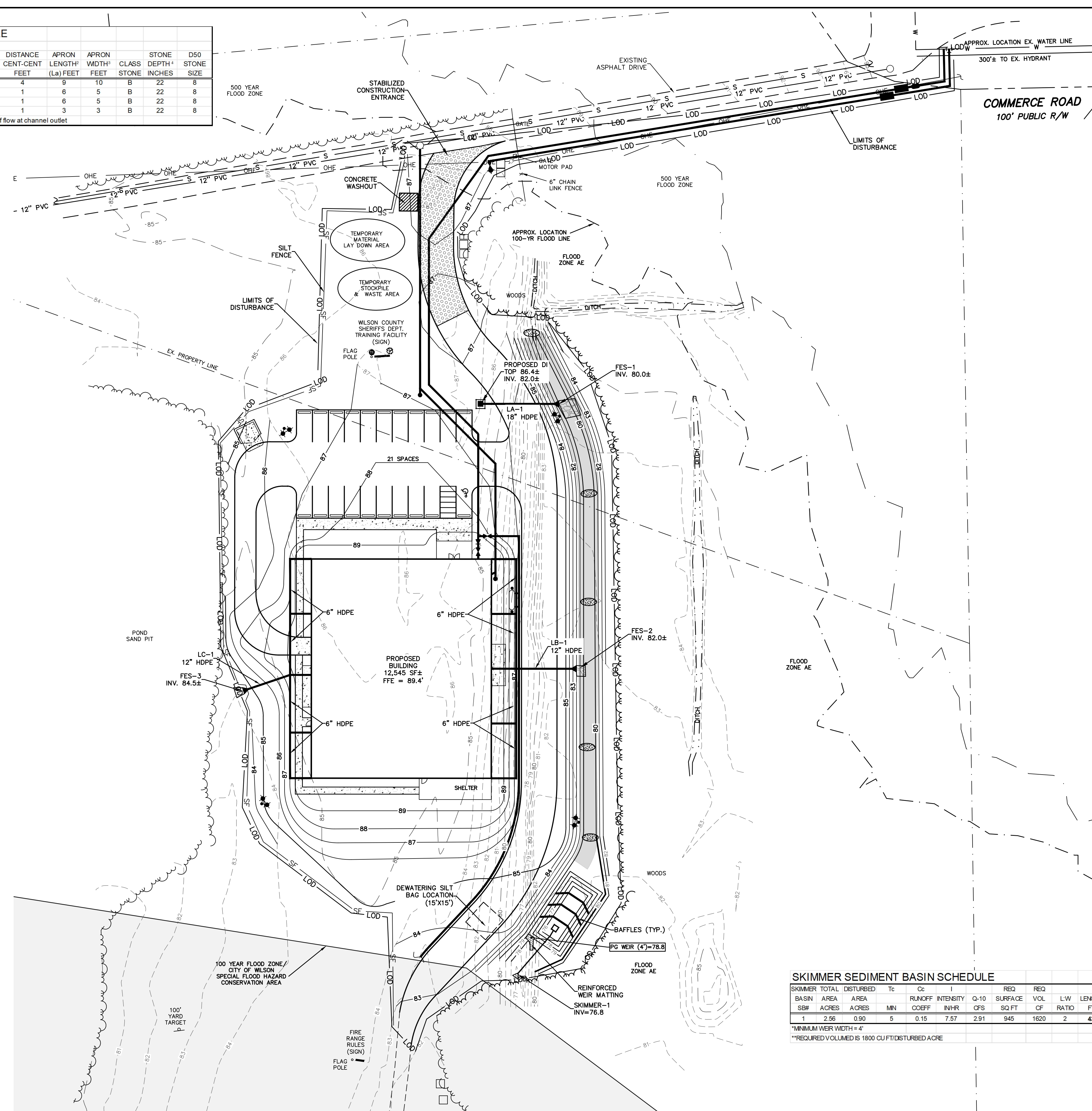
CITY OF WILSON ETJ WILSON COUNTY
NORTH CAROLINA ZONE: HI
PIN # 3720-14-7262 SHEET SP4

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DISSIPATOR PAD/OUTLET PROTECTION SCHEDULE
(NYDOT METHOD)

LOCATION	Q _{max} CFS	Q ₁₀ CFS	V ₁₀ FPS	V _{max} FPS	PIPE DIA. INCHES	ZONE	NUMBER OF PIPES	DISTANCE CENT-CENT FEET	APRON LENGTH (La) FEET	APRON WIDTH FEET	CLASS STONE	DEPTH INCHES	D50 STONE SIZE	
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SKIMMER-1	0.02	0.01	0.10	1.00	6	2	6	1	1	3	3	B	22	8

Pipes: Do = Pipe Diameter; Channels: Do = Square root of the cross sectional area of flow at channel outlet



- CONSTRUCTION SEQUENCE:**
- EROSION AND SEDIMENT CONTROL (E&S) PERMIT AND CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES OCCUR. NO WORK TO BE DONE ON SITE UNTIL THE SEDIMENTATION AND EROSION CONTROL PLAN HAS BEEN APPROVED AND PERMIT ACQUIRED.
 - SCHEDULE CONSTRUCTION TO LIMIT TIME OF EXPOSURE AND PROVIDE GROUND COVER UNDER GUIDELINES OF THE E&S PERMIT.
 - MARK THE NEUSE STREAM BUFFER AREA.
 - CONTRACTOR TO CONTACT THE DEMLR RALEIGH REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY. THE CONTACT PHONE NUMBER IS (919) 791-4200.
 - INSTALL CONSTRUCTION ENTRANCE, TREE PROTECTION FENCE, SILT FENCE AND SILT FENCE OUTLETS PRIOR TO ANY LAND DISTURBING ACTIVITY (INCLUDING TREE CLEARING OR REMOVAL). CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES SPECIFIED ON THE APPROVED PLAN SHEET. INSTALL ALL OTHER EROSION CONTROL MEASURES AS REQUIRED BY NCEM/R INCLUDING SEDIMENT BASINS, BARRIERS, AND DIVERSION DITCHES AS NEEDED. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. INSTALL DITCH LINERS AND TEMPORARY CULVERT PIPE AS NOTED ON PLANS. SEED TEMPORARY DIVERSIONS, BERMS, AND BASINS IMMEDIATELY AFTER INSTALLATION. INSTALL COIR MATS OR CHECK DAMS IN TEMPORARY DIVERSIONS.
 - SELF-INSPECTIONS FOR EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE PERFORMED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT OF GREATER THAN 1 INCH. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN MEASURES AS DESIGNED. ALL E&S MEASURES SHALL BE MAINTAINED AS SPECIFIED IN THE CONSTRUCTION DETAILS ON THIS PLAN. A RAIN GAUGE SHALL BE INSTALLED AT THE PROJECT SITE FOR MONITORING.
 - PROVIDE TEMPORARY SEEDING AND STABILIZE ALL AREAS TO BE REVEGETATED.
 - ALL APPLICABLE E&S CONTROL MEASURES ARE TO REMAIN AND BE PROPERLY MAINTAINED UNTIL A VIGOROUS STAND OF PERMANENT VEGETATION IS ESTABLISHED AT THE END OF THE CONSTRUCTION OF THE PROJECT.
 - WHEN ALL UPLAND AREAS HAVE BEEN STABILIZED, REMOVE TEMPORARY MEASURES ONLY AFTER INSPECTION FROM DEMLR, DEWATER SKIMMER BASIN AND DITCH AS NEEDED UTILIZING SILT BAG ACCORDING TO DETAILS.
 - STREET IN FRONT OF THE PROJECT SITE SHALL BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.

- MAINTENANCE:**
- EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CHECKED AT LEAST ONCE EVERY WEEK AND AFTER EVERY RUN-OFF PRODUCING RAINFALL.
 - SEDIMENT SHALL BE REMOVED AND DEVICES REPAIRED AND/OR REPLACED AS NECESSARY.

SEEDBED PREPARATION:

CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3" DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE. RIP ENTIRE AREA 6" DEEP. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM. APPLY AGRICULTURAL LIME AND FERTILIZER UNIFORMLY AND MIX WITH SOIL. CONTINUE TILLAGE UNTIL A WELL PULVERIZED, REASONABLY UNIFORM SEEDBED IS PREPARED 4" TO 6" DEEP. SPREAD SEED ON FRESHLY PREPARED SEEDBED AND COVER LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACKER AFTER SEEDING. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH USING EMULSIFIED ASPHALT AT A RATE OF 435 GAL/ACRE.

HYDROSEEDING

SURFACE ROUGHENING IS PARTICULARLY IMPORTANT WHEN HYDROSEEDING, AS A ROUGHENED SLOPE WILL PROVIDE SOME NATURAL COVERAGE FOR LIME, FERTILIZER, AND SEED. THE SURFACE SHOULD NOT BE COMPACTED OR SMOOTH. FINE SEEDBED PREPARATION IS NOT NECESSARY FOR HYDROSEEDING OPERATIONS. LARGE CLODS, STONES, AND IRREGULARITIES PROVIDE CAVITIES IN WHICH SEEDS CAN LODGE. RATE OF WOOD FIBER (CELLULOSE) APPLICATION SHOULD BE AT LEAST 2,000 LB/ACRE. APPLY LEGUME INOCULANTS AT FOUR TIMES THE RECOMMENDED RATE WHEN ADDING INOCULANT TO A HYDROSEEDER SLURRY. IF A MACHINERY BREAKDOWN OF 1/2 TO 2 HOURS OCCURS, ADD 50% MORE SEED TO THE TASK, BASED ON THE PROPORTION OF THE SLURRY REMAINING. THIS SHOULD COMPENSATE FOR DAMAGE TO SEED. BEYOND 2 HOURS, FULL RATE OF NEW SEED MAY BE NECESSARY. LIME IS NOT NORMALLY APPLIED WITH A HYDRAULIC SEEDER BECAUSE IT IS ABRASIVE. IT CAN BE BLOWN ONTO STEEP SLOPES IN DRY FORM.

CRIMPING STRAW MULCH

APPLY AND CRIMP HALF OF THE REQUIRED AMOUNT OF STRAWS IN TWO DIRECTIONS BEFORE APPLYING AND CRIMPING THE REMAINING STRAWS FOR BETTER ANCHORING INTO THE GROUND. STRAW MULCH SHALL BE OF SUFFICIENT LENGTH AND QUALITY TO WITHSTAND THE CRIMPING OPERATION. CRIMPING EQUIPMENT INCLUDING POWER SOURCE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER PROVIDING THAT MAXIMUM SPACING OF CRIMPER BLADES SHALL NOT EXCEED 8".

DISTURBED AREA = 1.9 ACRES±

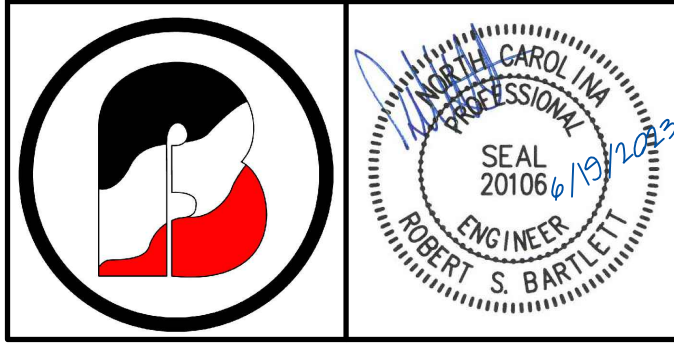
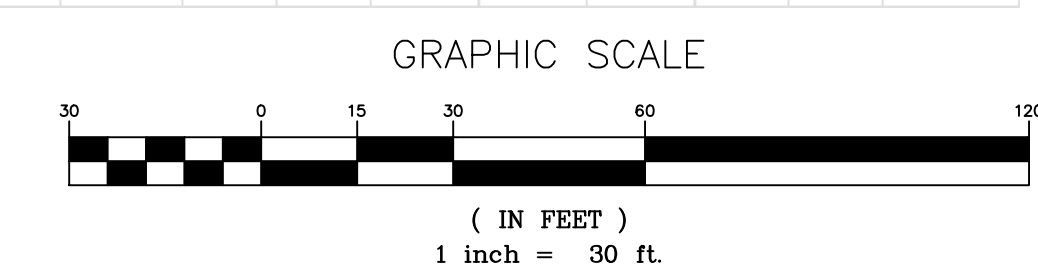
- LEGEND**
- ▲ CONTROL POINT
 - ⊕ EXISTING SIGN
 - EXISTING ELECTRIC BOX/TRANSFORMER
 - EXISTING TELEPHONE VAULT
 - EXISTING SANITARY SEWER MANHOLE
- LINE LEGEND & ABBREVIATIONS**
- OHE — EXISTING OVERHEAD ELECTRIC
 - SD — EXISTING STORM DRAIN LINE
 - SS — EXISTING SANITARY SEWER LINE
 - RW — EXISTING RIGHT-OF-WAY LINE
 - PL — EXISTING PROPERTY LINE
 - UE — EXISTING UNDERGROUND ELECTRIC (APPROX. LOCATION)

- EROSION CONTROL LEGEND**
- ELEV — EXISTING CONTOUR
 - ELEV — PROPOSED CONTOUR
 - LOD — LIMITS OF DISTURBANCE
 - SF — SILT FENCE (TEMPORARY)
 - Construction Entrance/Exit (Temporary)
 - Drop Inlet Protection (Temporary)
 - Silt Fence Outlet (Temporary)
 - Concrete Washout (Temporary)
 - Ditch Liner (Temporary)
 - Rock Check Dam

SKIMMER SEDIMENT BASIN SCHEDULE

BASIN #	TOTAL AREA ACRES	DISTURBED AREA ACRES	Tc	Ct	I	Q-10 SURFACE RUNOFF IN/HR	REQ. VOL. SQ FT	REQ. L/W RATIO	LENGTH FT	WIDTH FT	DEPTH FT	WEIR LENGTH FT	BAFFLES	PROP. AREA SQ FT	PROP. SIDE SLOPE	PROP. BOTTOM VOLUME (MEASURED FROM INFLOW END) SQ FT	BAFFLE PLACEMENT	SKIMMER ORIFICE SIZE IN	DEWATERING TIME IN					
																				MIN	COEFF	IN/HR	CF	CF
1	2.56	0.90	5	0.15	7.57	2.91	945	1620	2	43	22	3.0	4	3	945	2.1	306	1789	11	22	33	1.5	0.81	3.0

*MINIMUM WEIR WIDTH = 4"
**REQUIRED VOLUME IS 1800 CU FT/DISTURBED ACRE



BARTLETT ENGINEERING & SURVEYING, PC

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SEDIMENTATION & EROSION CONTROL PLAN

SHERIFF'S DEPT. TRAINING FACILITY
COMMERCE ROAD

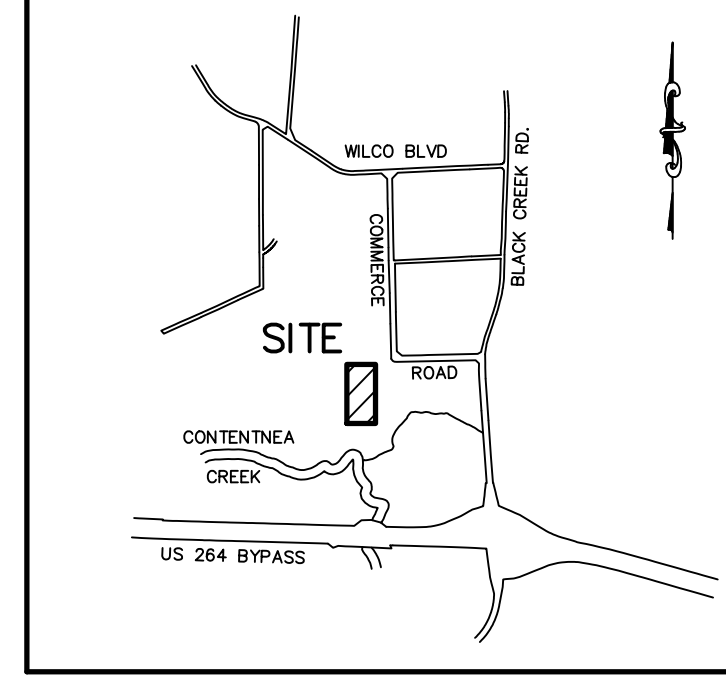
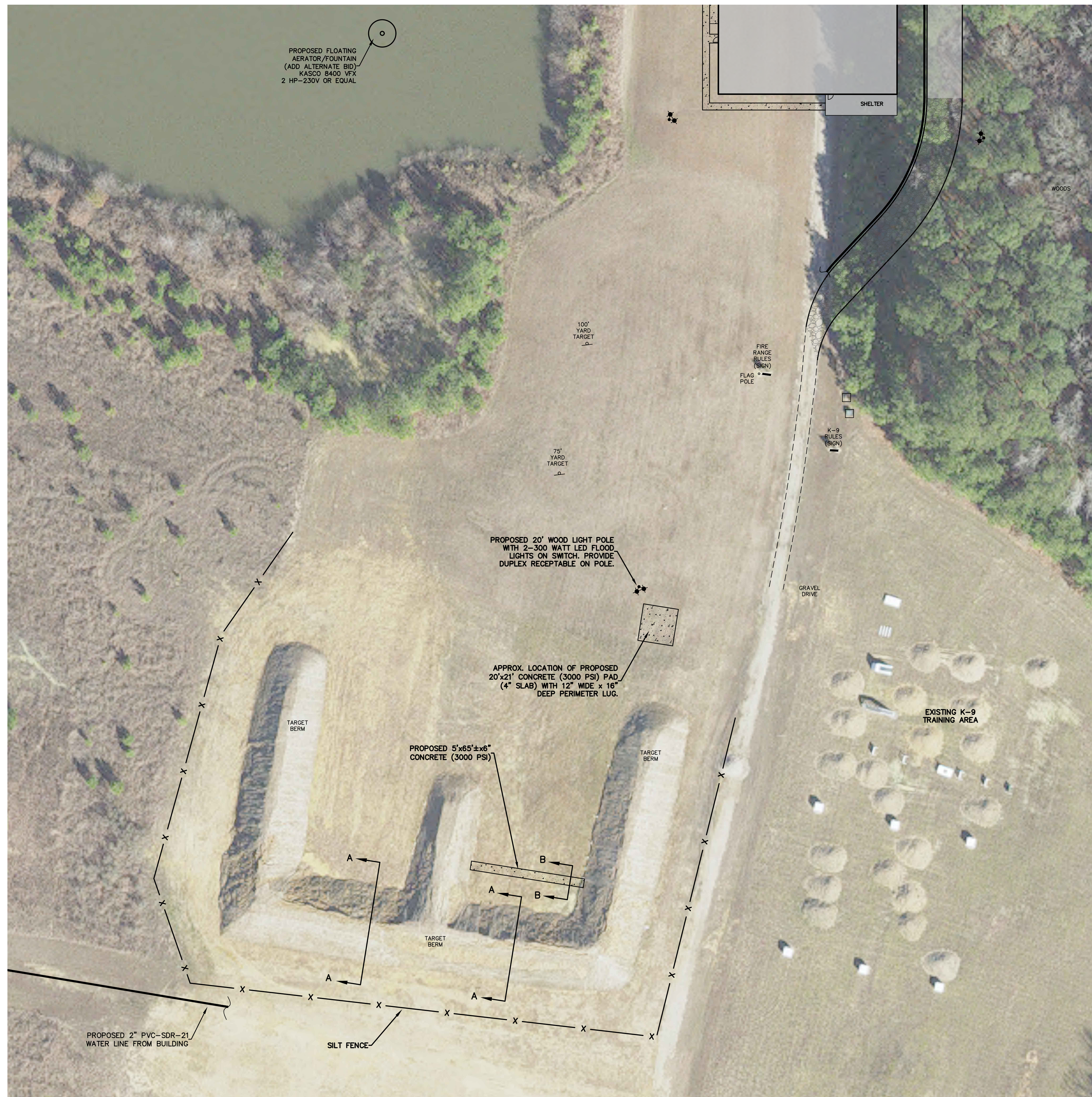
DATE: MARCH 2023
SCALE(HORIZ): 1"=30'
SCALE(VERT):
REVISIONS:

PROJECT: 22-481
CLIENT CODE: CONWAY
CAD FILE: 22-481SP1-REV
FIELD BOOK: 358
DRAWN BY: TRB/LR
SURVEY BY: DAB/DRB

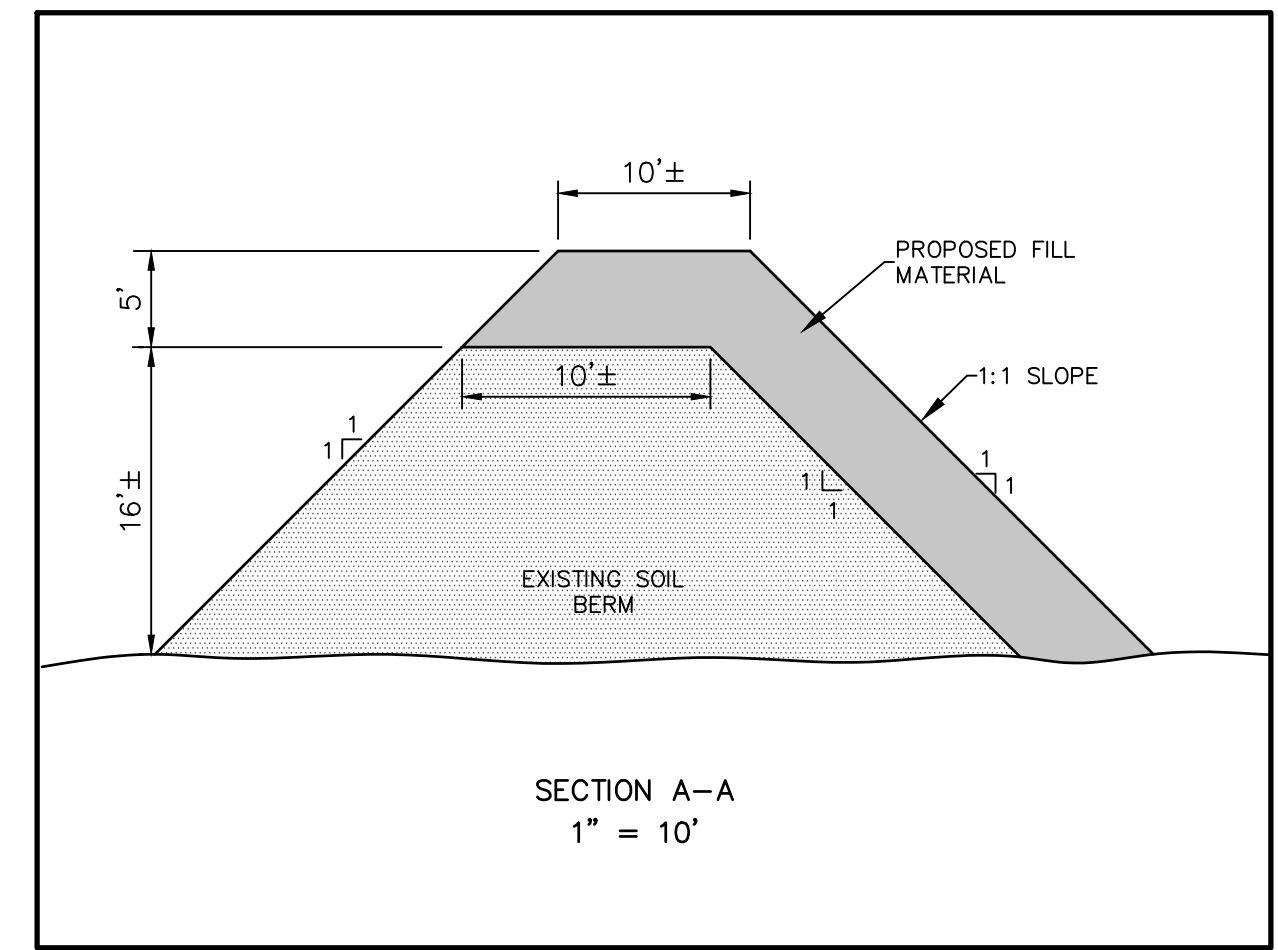
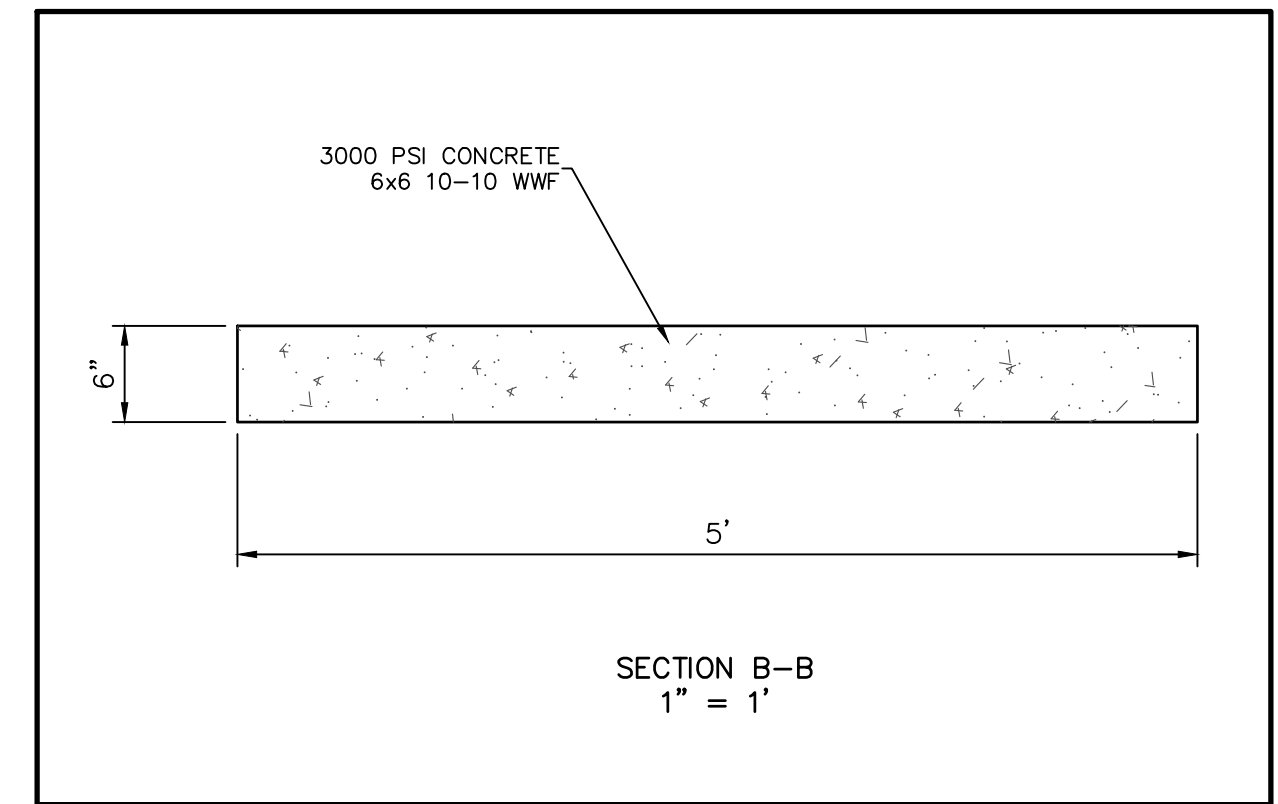
CITY OF WILSON ETJ
NORTH CAROLINA
PIN # 3720-14-7262

WILSON COUNTY
ZONE: HI
SHEET SP5

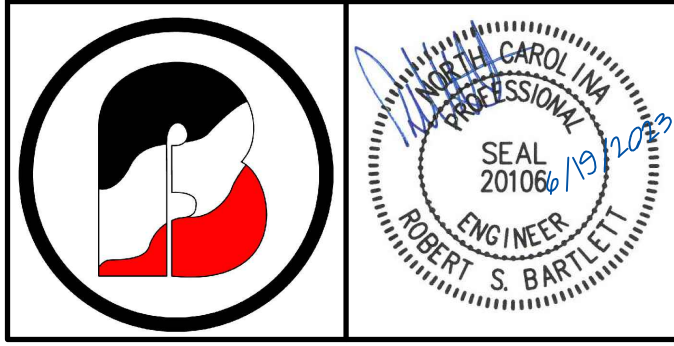
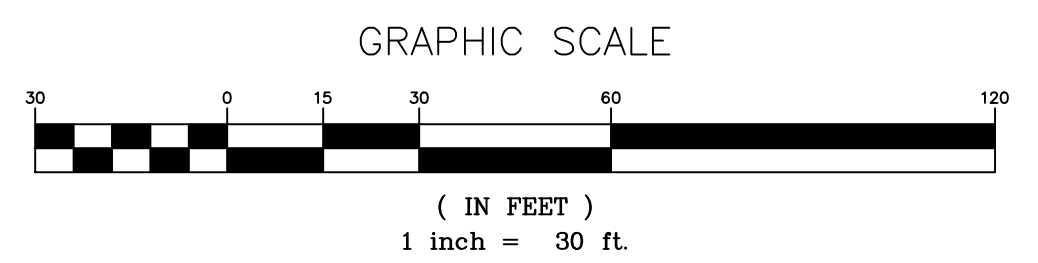
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LOCATION MAP
NO SCALE



ALL DISTURBED SLOPES AND TOP OF BERM TO BE VEGETATED IN ACCORDANCE WITH BASE BID PLANS.



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OUTDOOR SHOOTING
RANGE
IMPROVEMENTS

SHERIFF'S DEPT. TRAINING FACILITY
COMMERCE ROAD

DATE: MARCH 2023
SCALE(HORZ): 1"=30'
SCALE(VERT):
REVISIONS:

PROJECT: 22-481
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DRAWN BY: TRB/LR
SURVEY BY: DAB/DRB
CITY OF WILSON ETJ WILSON COUNTY
NORTH CAROLINA ZONE: HI
PIN # 3720-14-7262 SHEET SP6

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NOT TO SCALE AS SHOWN



PROPOSED FLOATING
AERATOR/FOUNTAIN
(ADD ALTERNATE BID)
KASCO 8400 VFX
2 HP-230V OR EQUAL

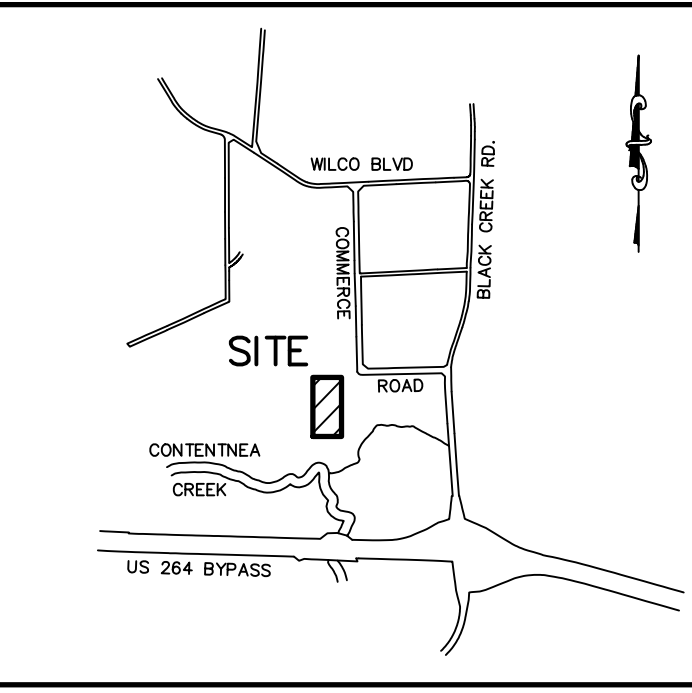
15'x40' CONCRETE
BOAT RAMP

PROPOSED 20' WOOD LIGHT POLE
WITH 2-300 WATT LED FLOOD
LIGHTS ON SWITCH. PROVIDE
DUPLEX RECEPTACLE ON POLE.

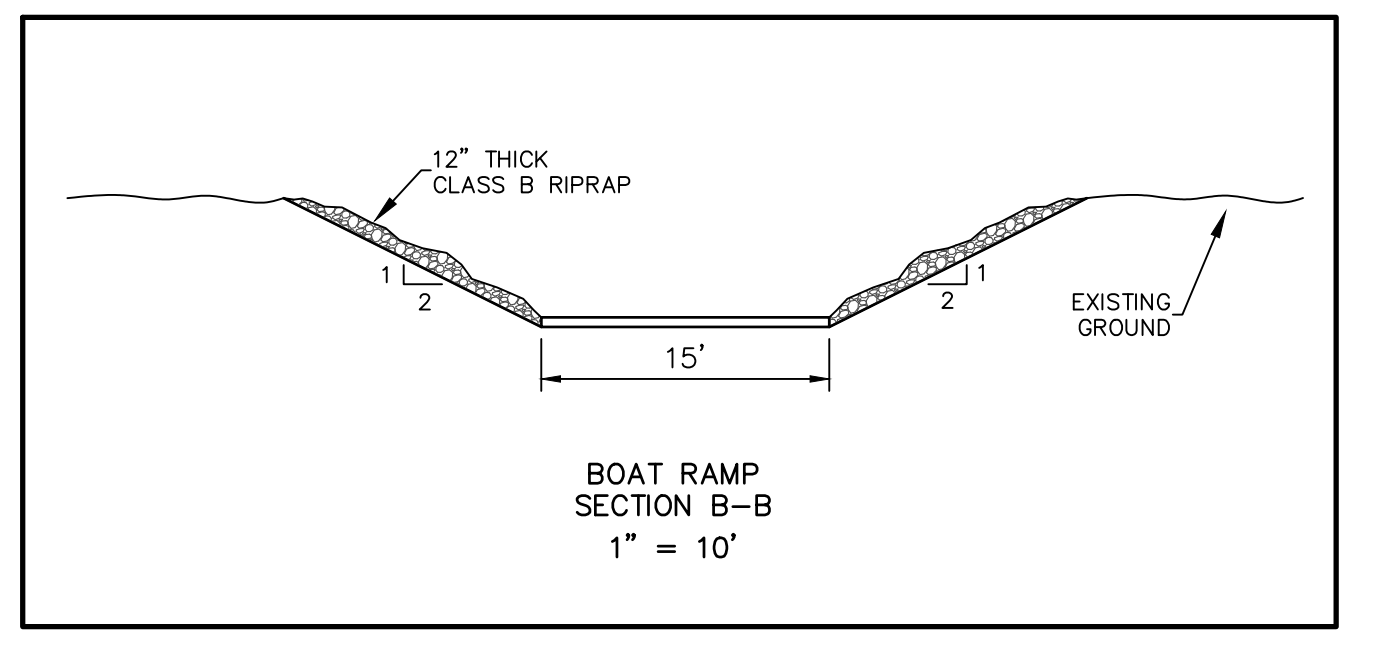
PROPOSED 3/4" FREEZE
PROOF YARD HYDRANT

PROPOSED 2" x 3/4"
REDUCER

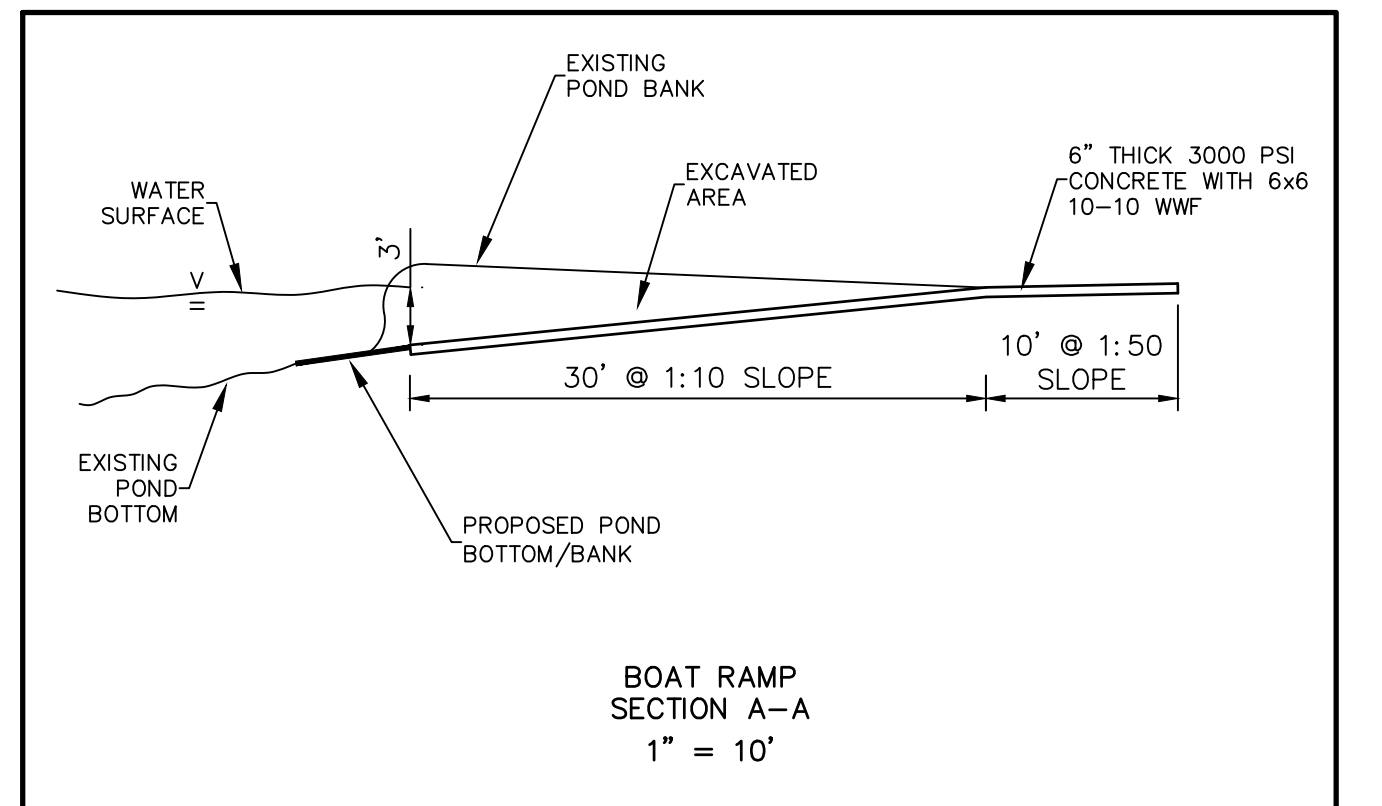
PROPOSED 2" PVC-SDR-21
WATER LINE FROM BUILDING



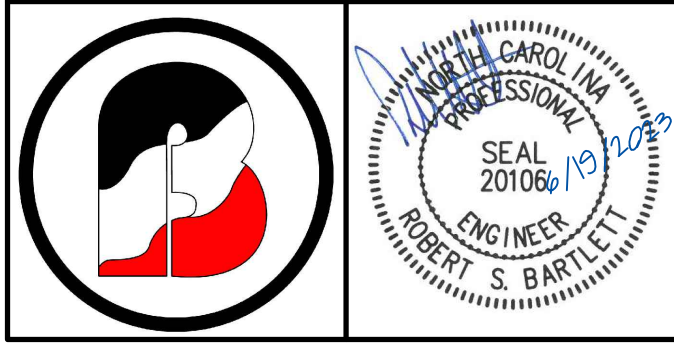
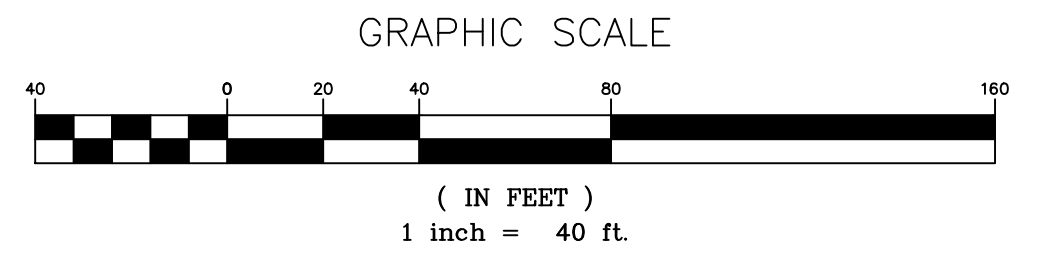
LOCATION MAP
NO SCALE



BOAT RAMP
SECTION B-B
1" = 10'



BOAT RAMP
SECTION A-A
1" = 10'



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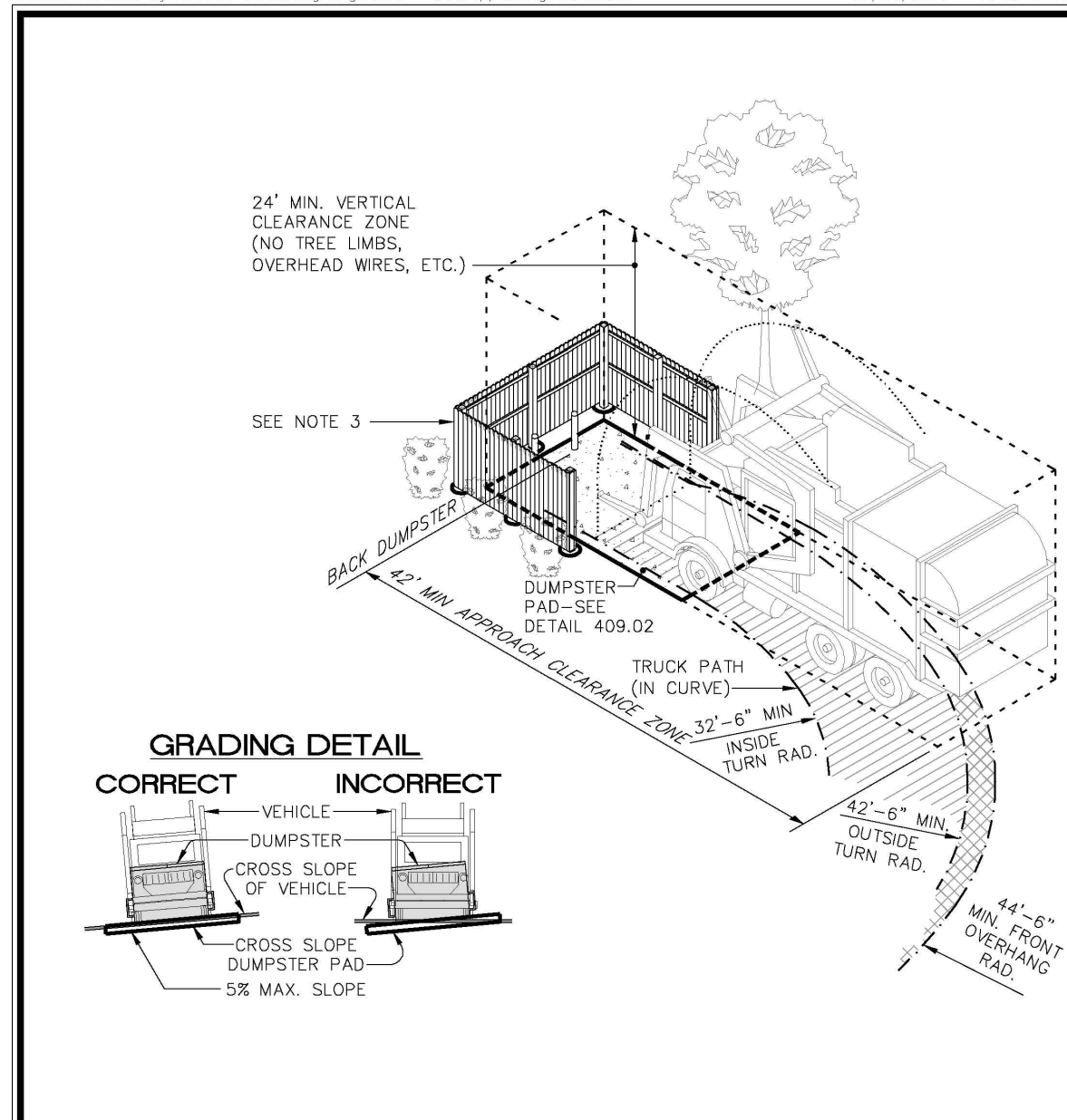
WATER SEARCH &
RESCUE TRAINING
ACCESS
IMPROVEMENTS

SHERIFF'S DEPT. TRAINING FACILITY
COMMERCE ROAD

DATE: MARCH 2023
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NORTH CAROLINA ZONE: HI
PIN # 3720-14-7262 SHEET SP6A

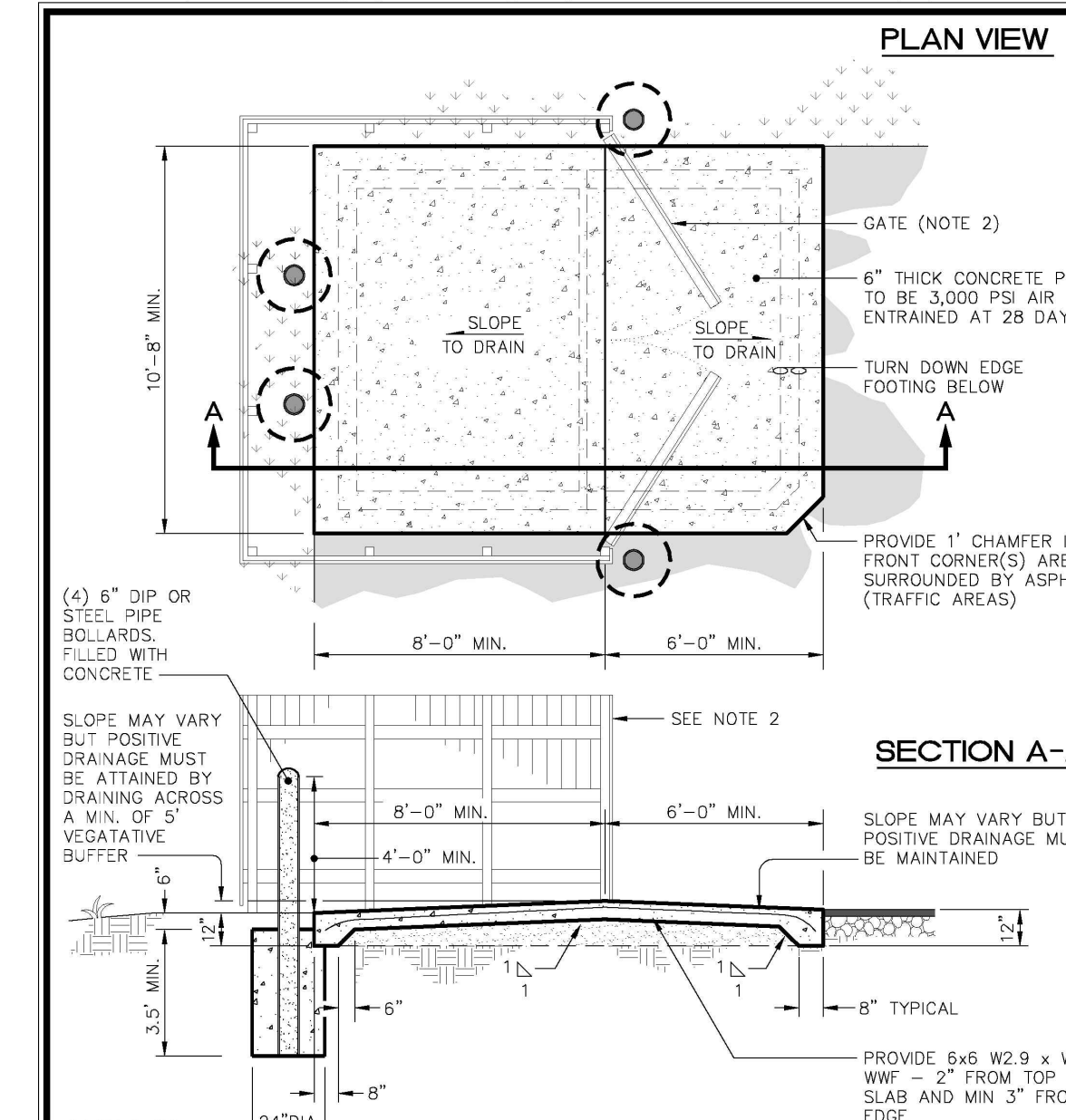
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- NOTES:**
1. Service vehicle must be able to enter service container, back up, and depart without having to make unnecessary maneuvers.
 2. Screen enclosure shall not encroach on the first 10' of the approach pad.
 3. Front gates must have clear opening of not less than 10'.

CITY of WILSON, N.C.
 Public Service Department
 1800 Herring Avenue, P.O. Box 10
 Wilson, North Carolina 27894
 Voice (252) 399-2465
 Fax (252) 399-2433
 www.wilsonnc.org

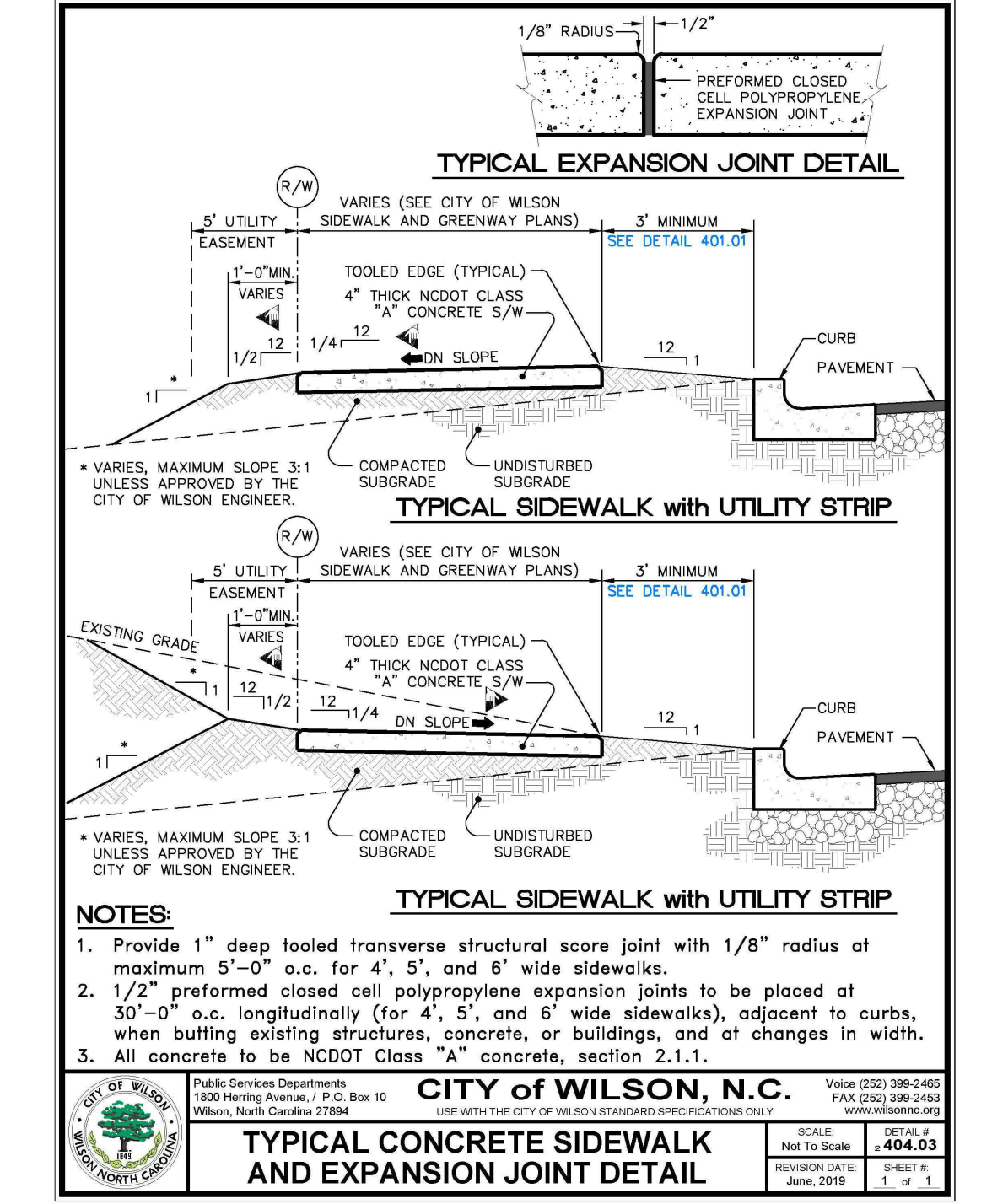
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DETAIL: 409.01
REVISION DATE: June 2010
SHEET #: 1 of 1



- NOTES:**
1. Provide 1/2" preformed asphalt impregnated expansion strip along perimeter of pad if concrete dumpster pad abuts any concrete.
 2. Dumpster(s) to be screened. Refer to City of Wilson zoning ordinance on specific type materials to be used for screening. Screening to be as tall as the containment unit(s).

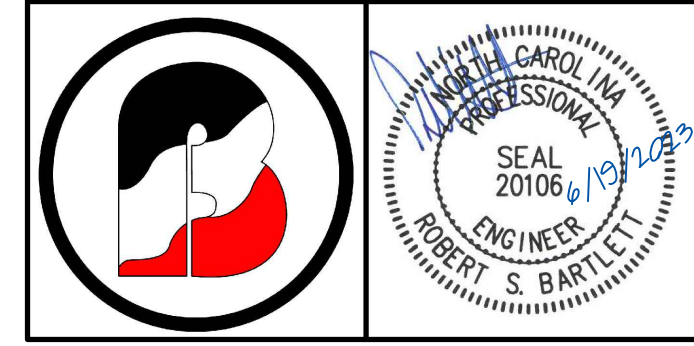
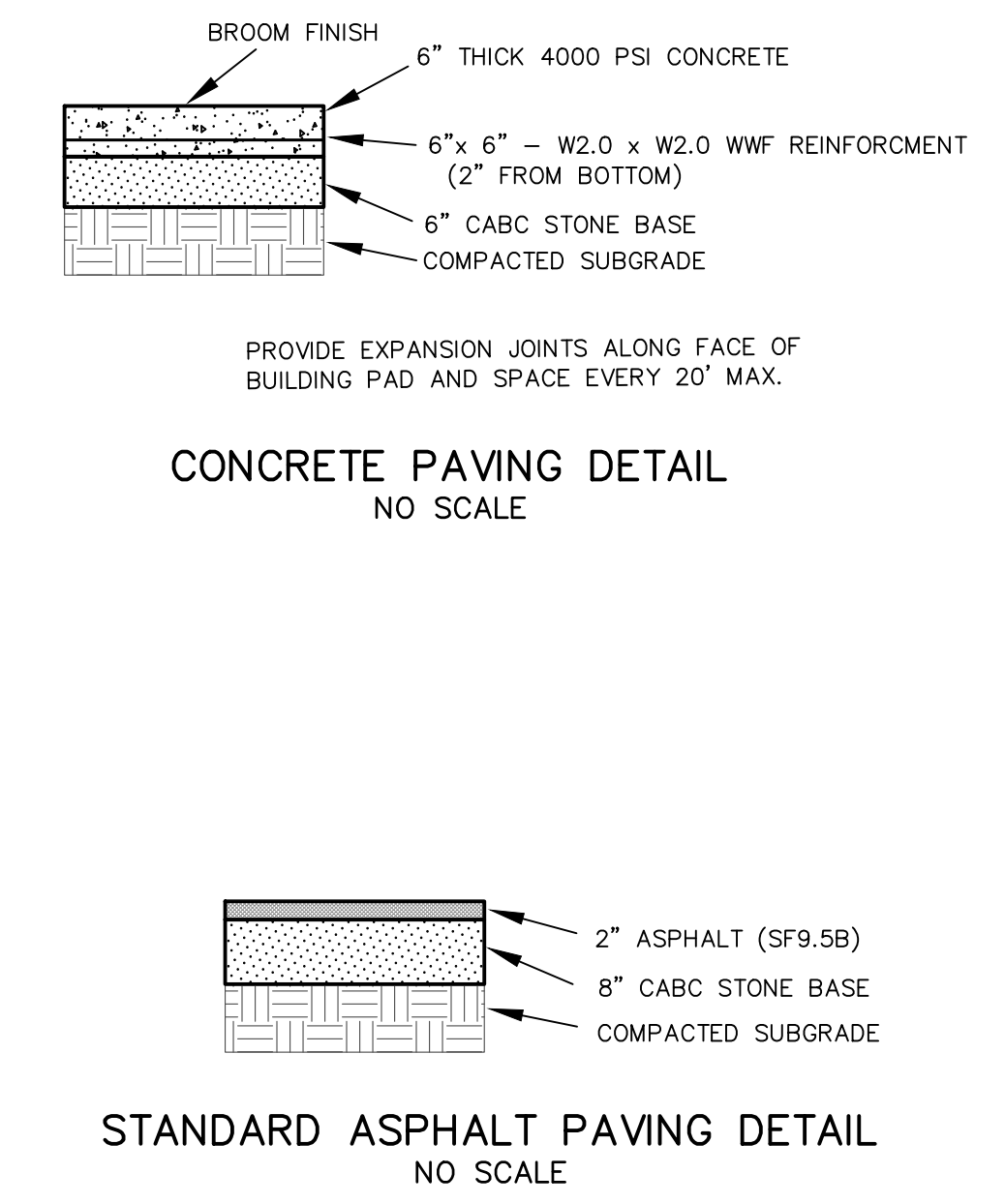
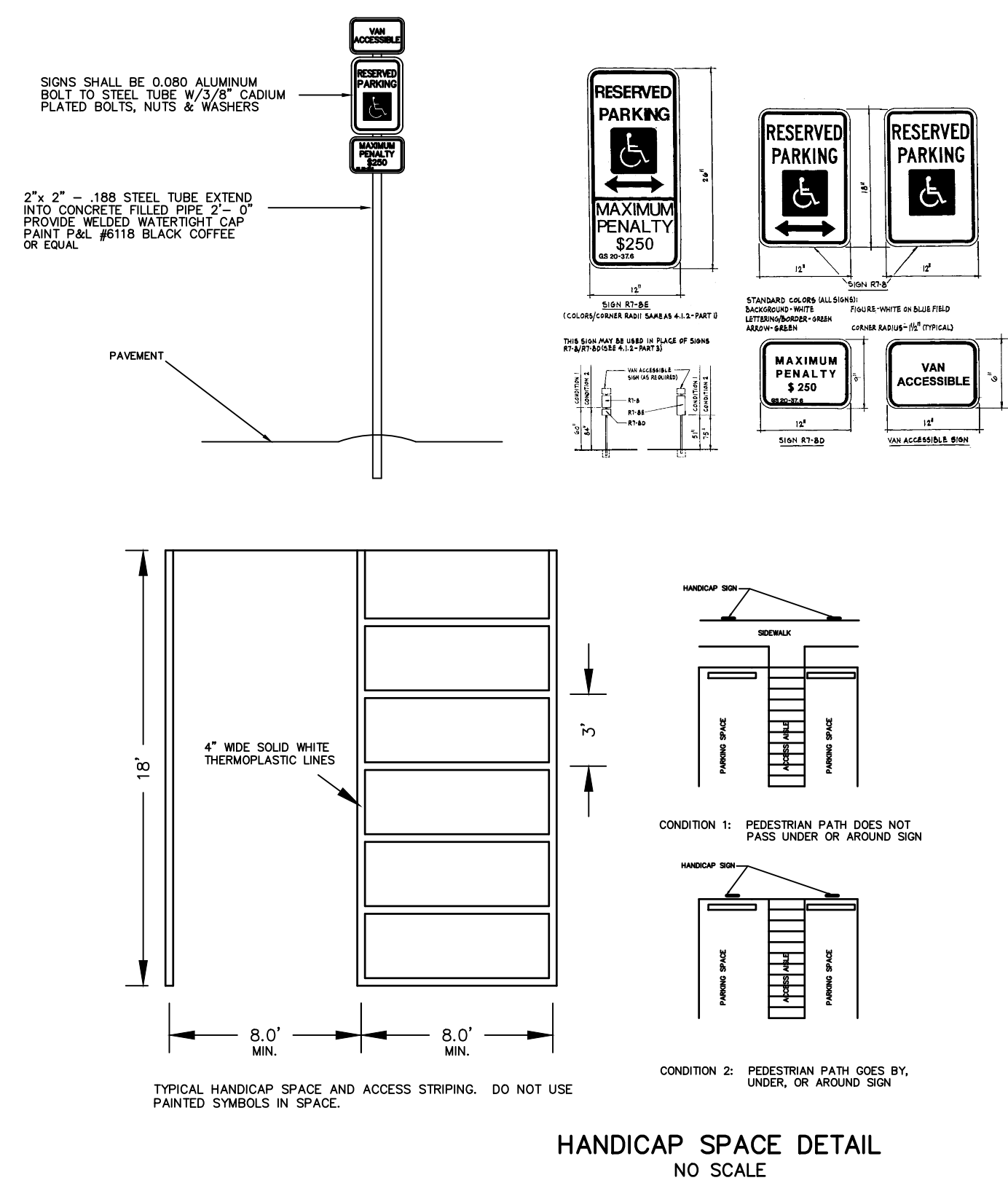
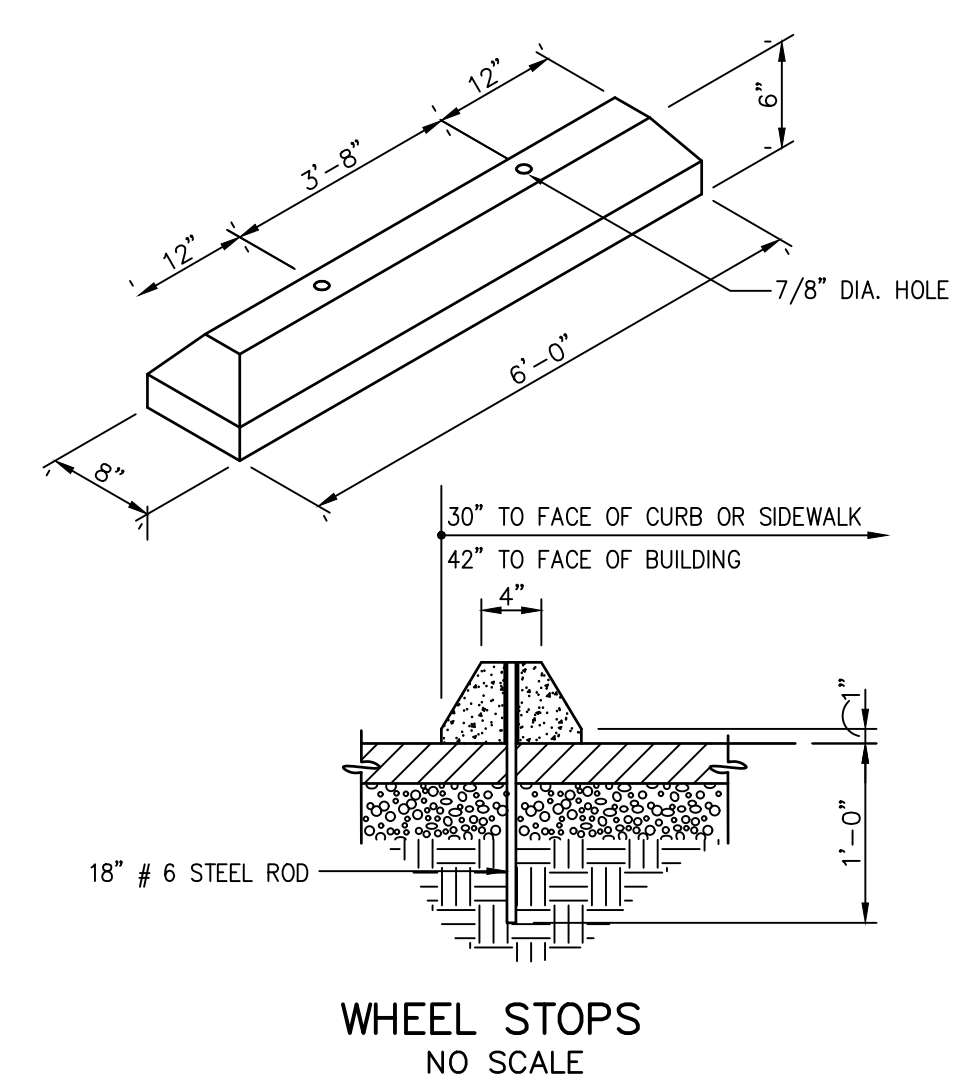
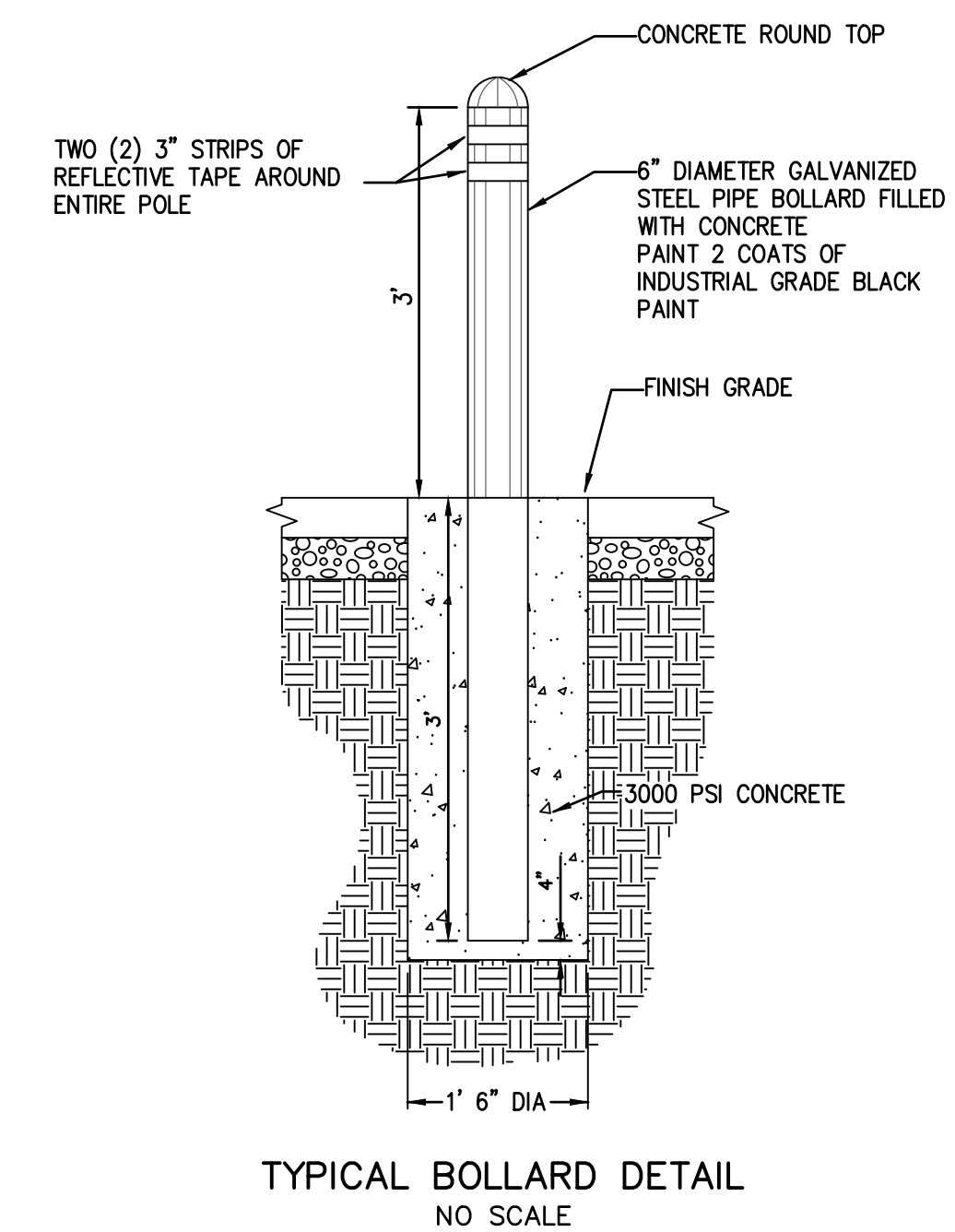
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DETAIL: 409.02
REVISION DATE: June 2010
SHEET #: 1 of 1



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DETAIL: 404.03
REVISION DATE: June 2010
SHEET #: 1 of 1



BARTLETT
 ENGINEERING & SURVEYING, PC

1906 NASH STREET NORTH
 WILSON, N.C. 27893-1726
 License No. C-1551

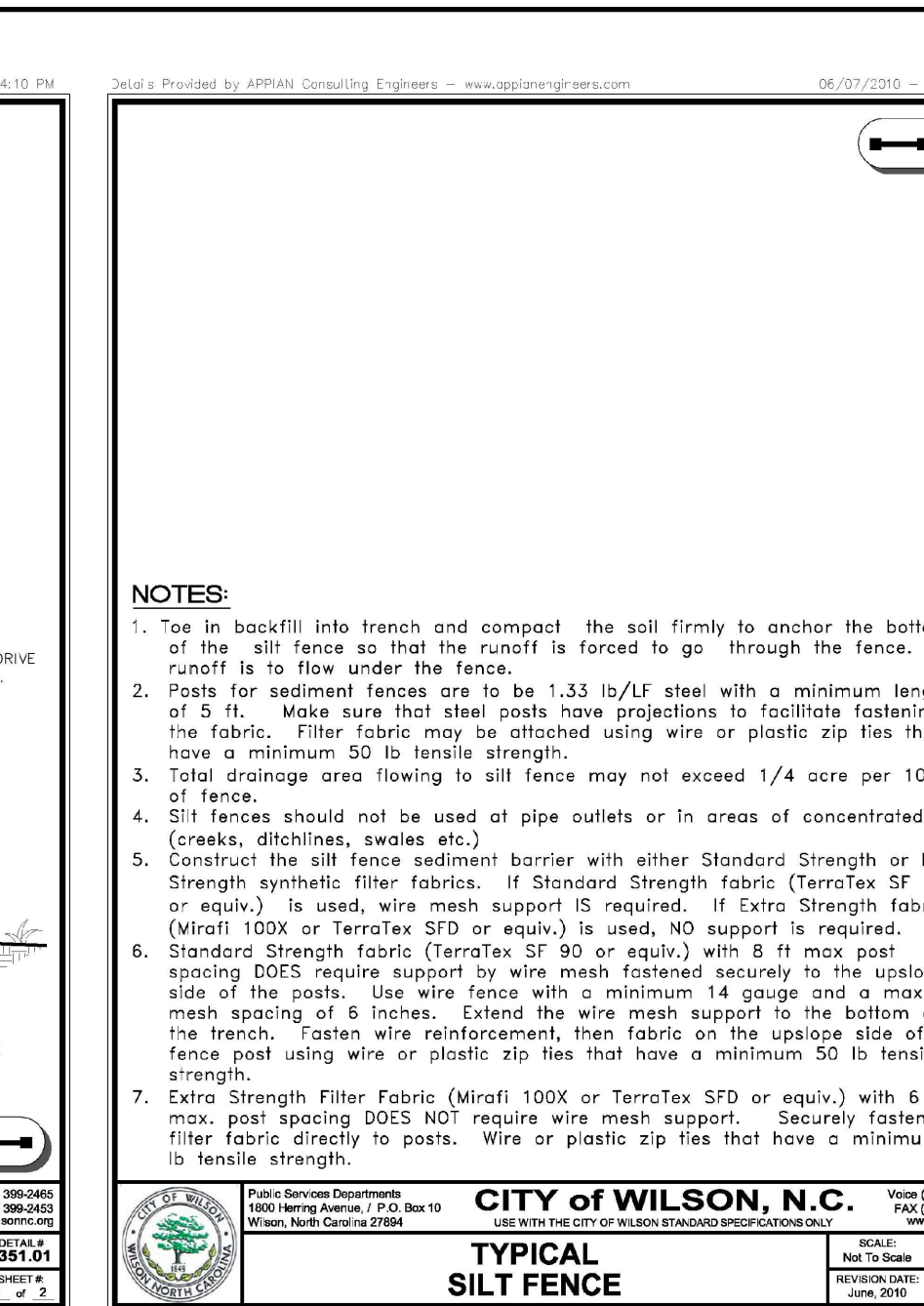
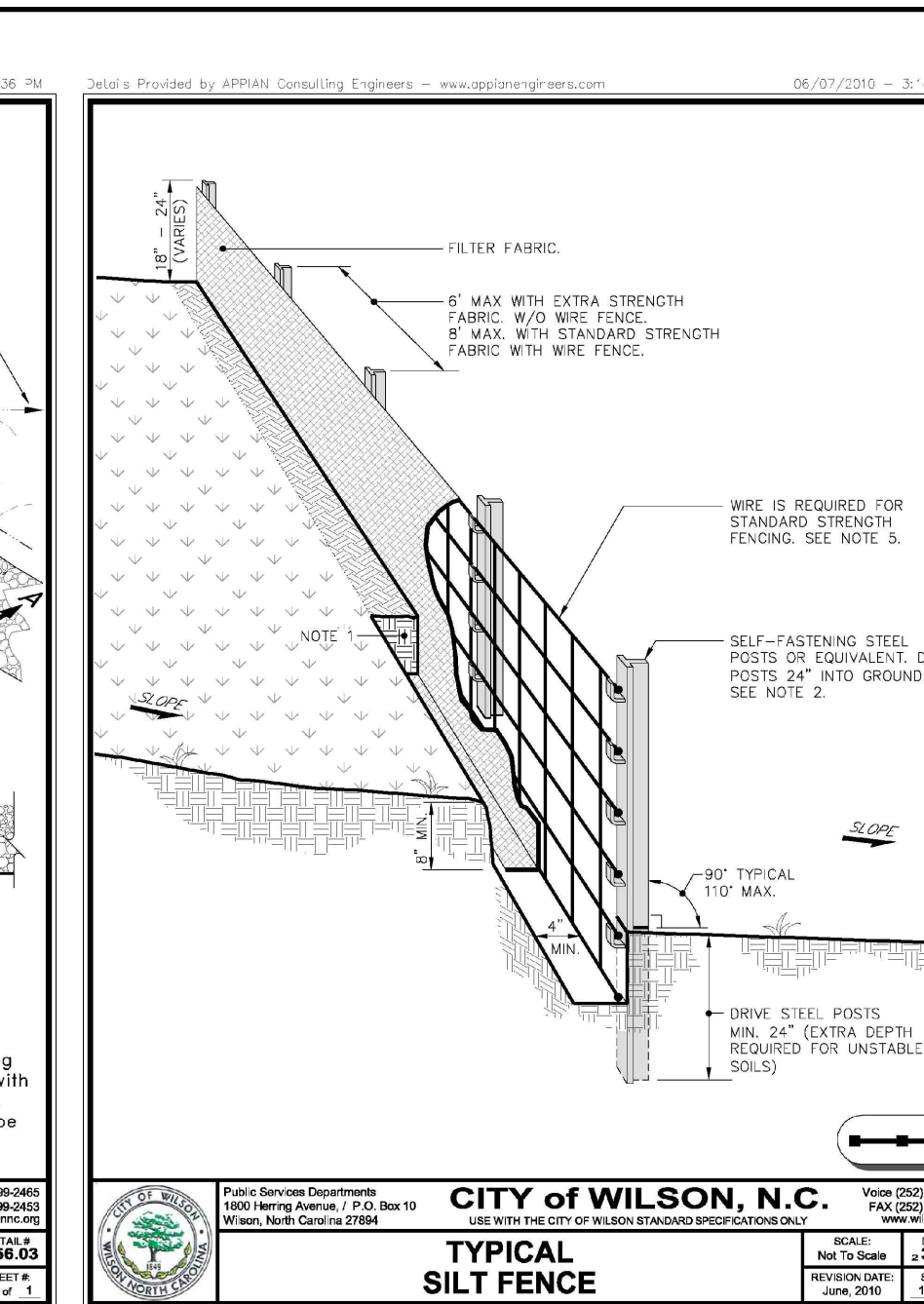
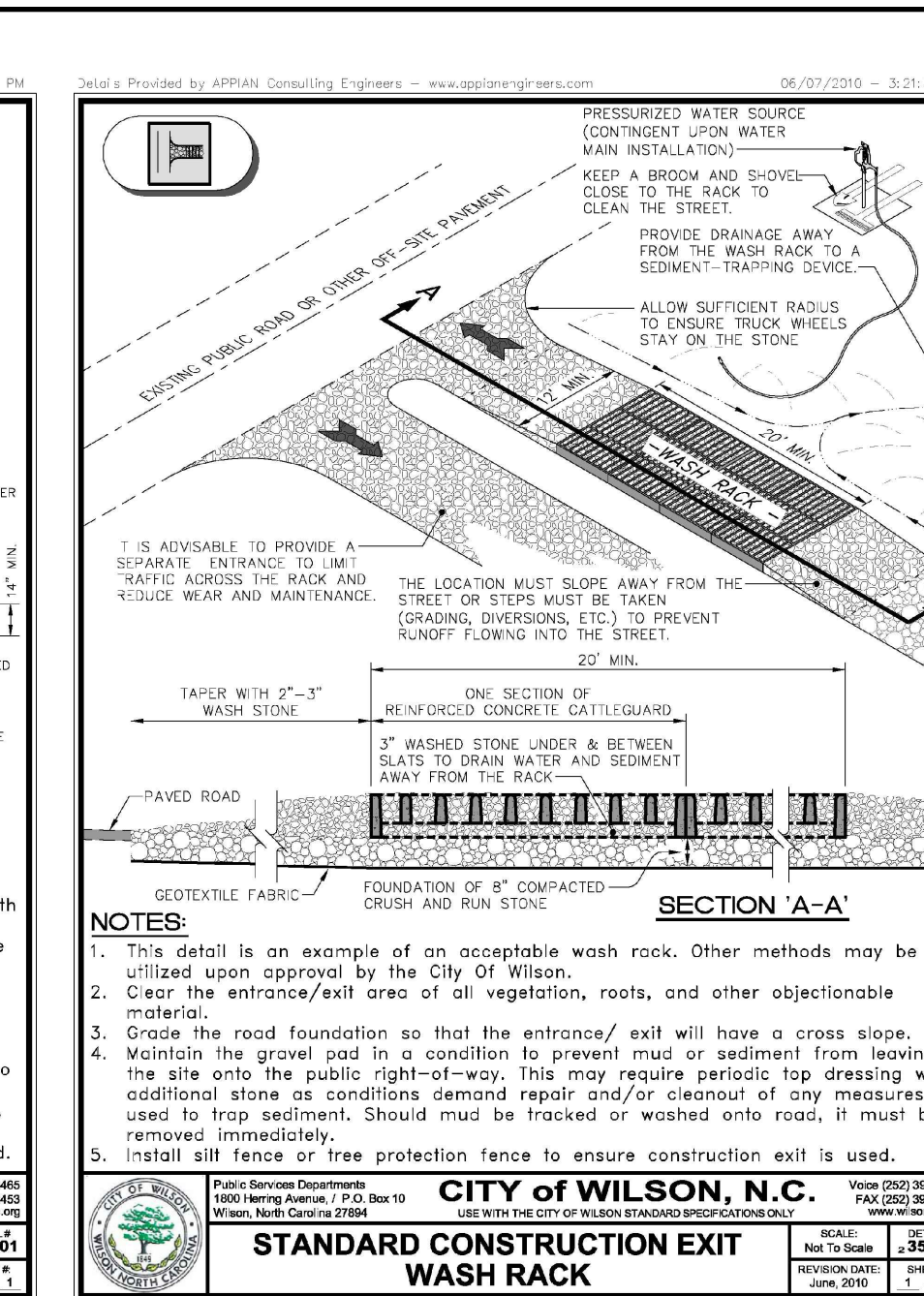
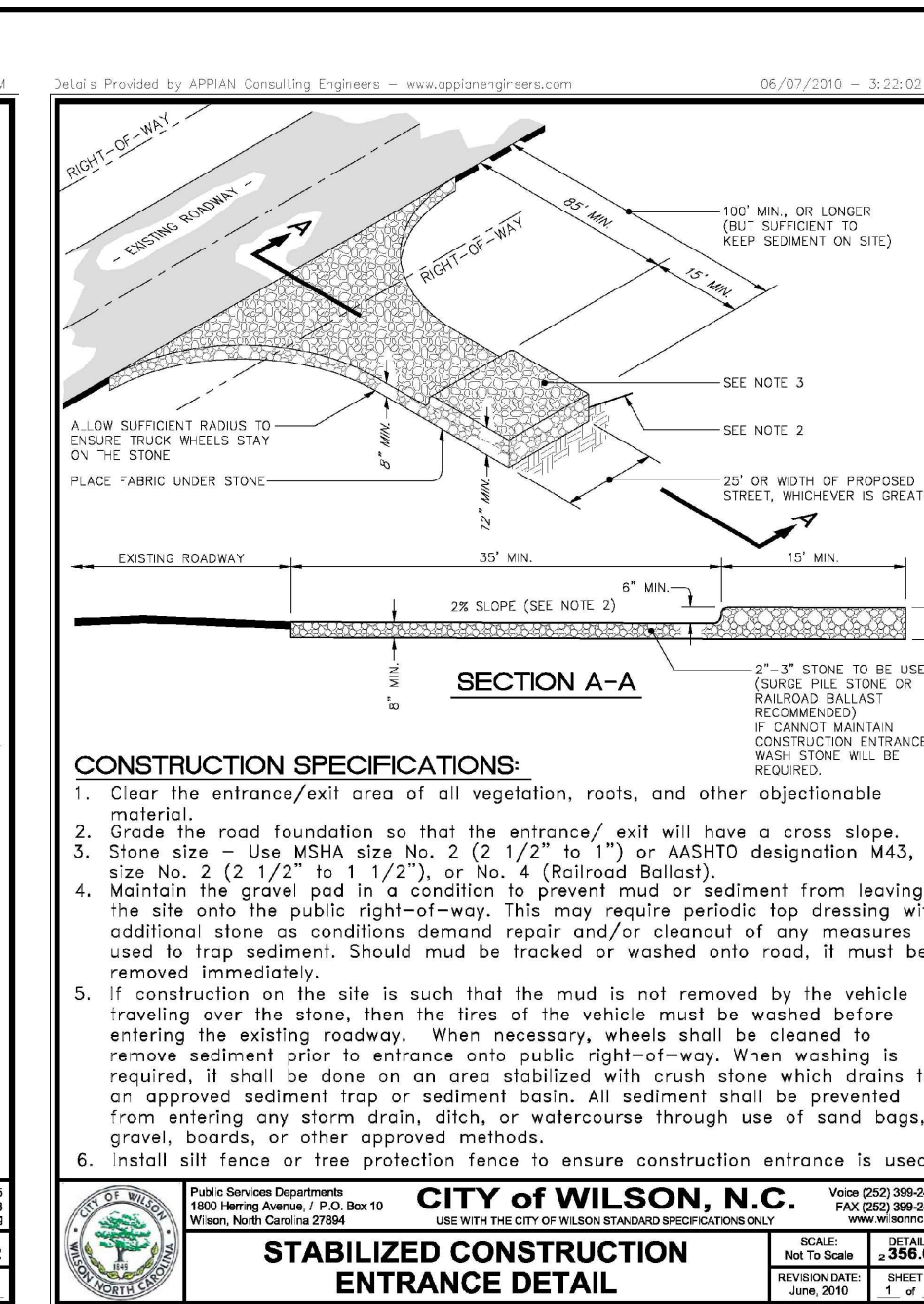
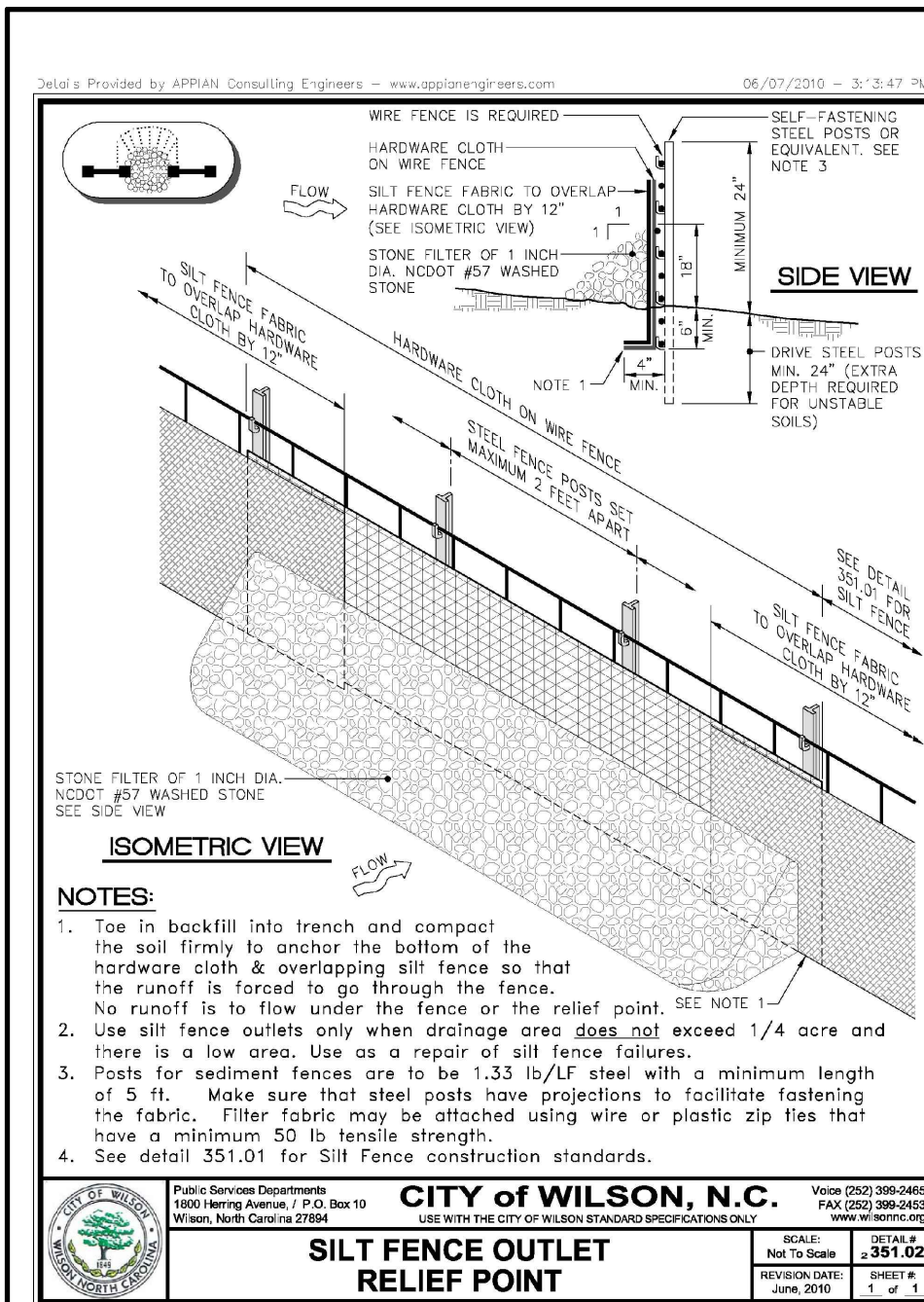
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 FAX: (252) 399-0804
 www.bartletteng.com

SITE DETAILS

SHERIFF'S DEPT. TRAINING FACILITY
 COMMERCE ROAD

DATE: MARCH 2023	PROJECT: 22-481
SCALE(HORZ): N/A	CLIENT CODE: CONDAW
SCALE(VERT):	CADFILES: 22481SP1-REV
REVISIONS:	FIELD BOOK: 358
	DRAWN BY: TRB/LR
	SURVEY BY: DAB/DRB

CITY OF WILSON ETJ	WILSON COUNTY
NORTH CAROLINA	ZONE: HI
PIN # 3720-14-7262	SHEET DT1



PERMANENT SEEDING

Summer - March 1 - August 31

Lime	4,000 lbs/acre
Fertilizer	500 lbs/acre
Bermudagrass (hulled)	35 lbs/acre
Silt Fence	10 lbs/acre
Germany/Browtop Millet Grain	10 lbs/acre
Strew Mulch	2 tons/acre

Winter - September 1 - February 28

Lime	4,000 lbs/acre
Fertilizer	500 lbs/acre
Bermudagrass (unhulled)	35 lbs/acre
Silt Fence	10 lbs/acre
Annual Ryegrass	10 lbs/acre
Strew Mulch	2 tons/acre

TEMPORARY SEEDING

Summer - March 1 - August 31

Lime	2 tons/acre
12-10-10 Fertilizer	700 lbs/acre
Browtop Millet	40 lbs/acre
Strew Mulch	2 tons/acre

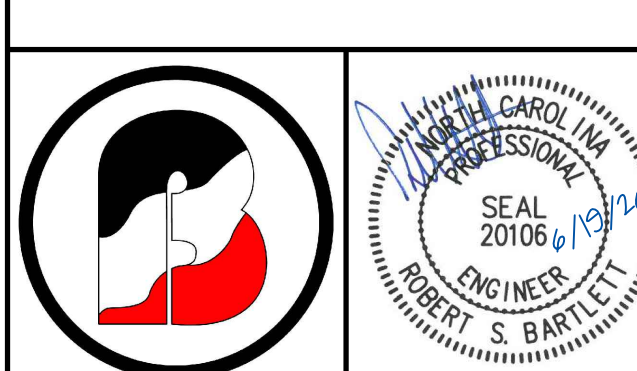
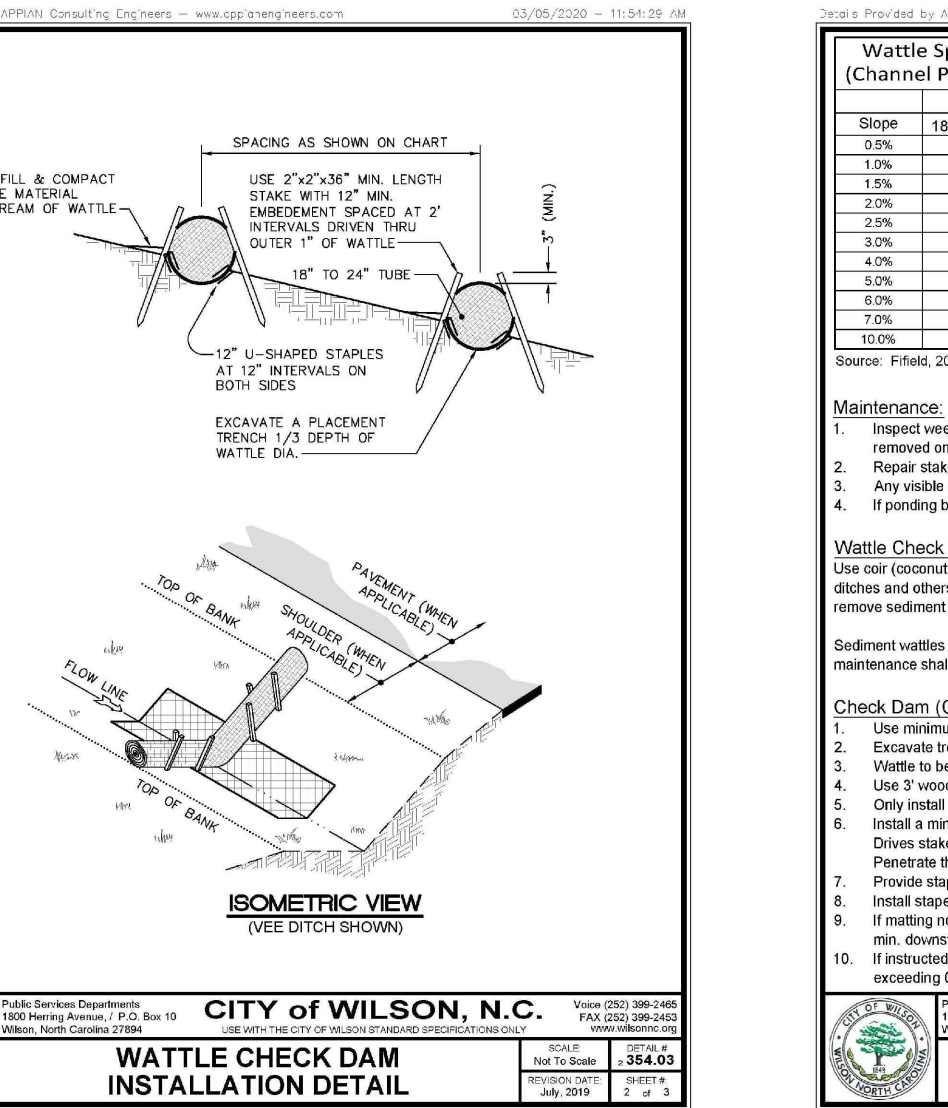
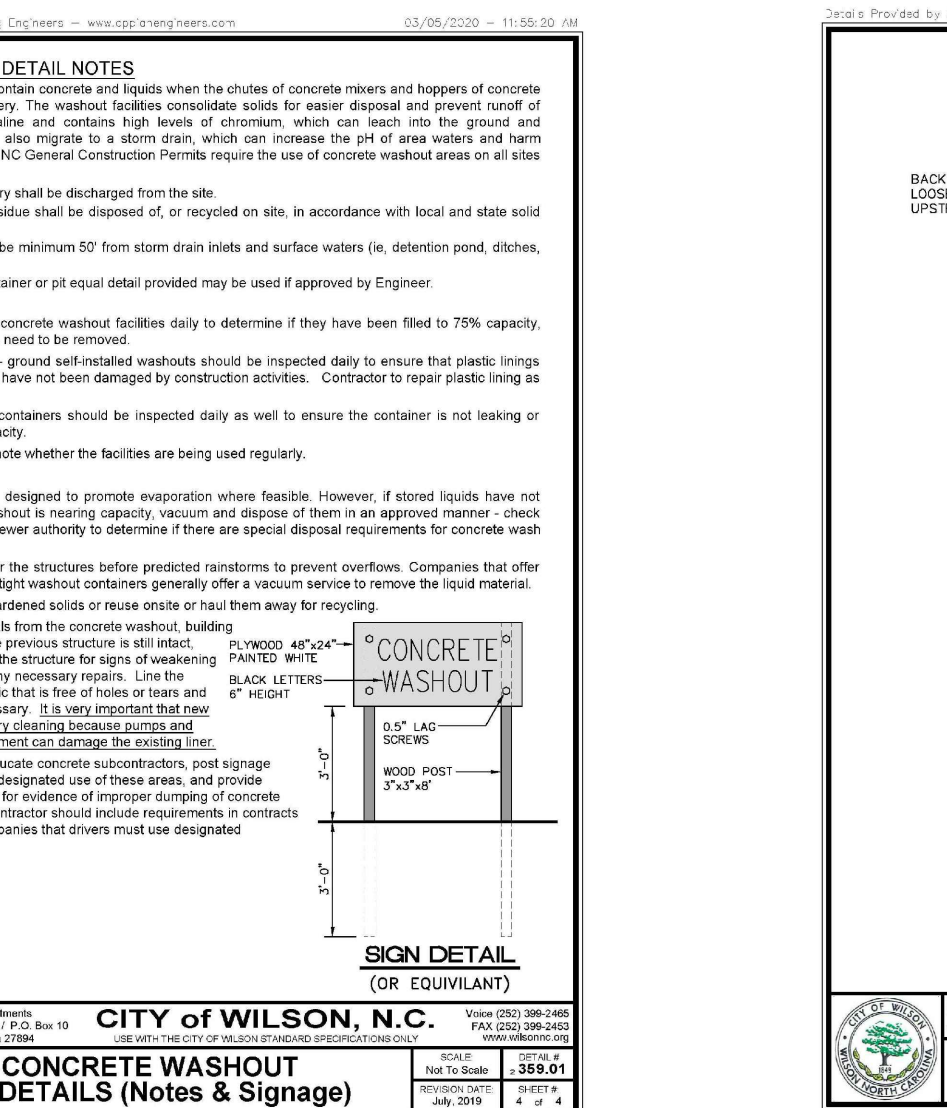
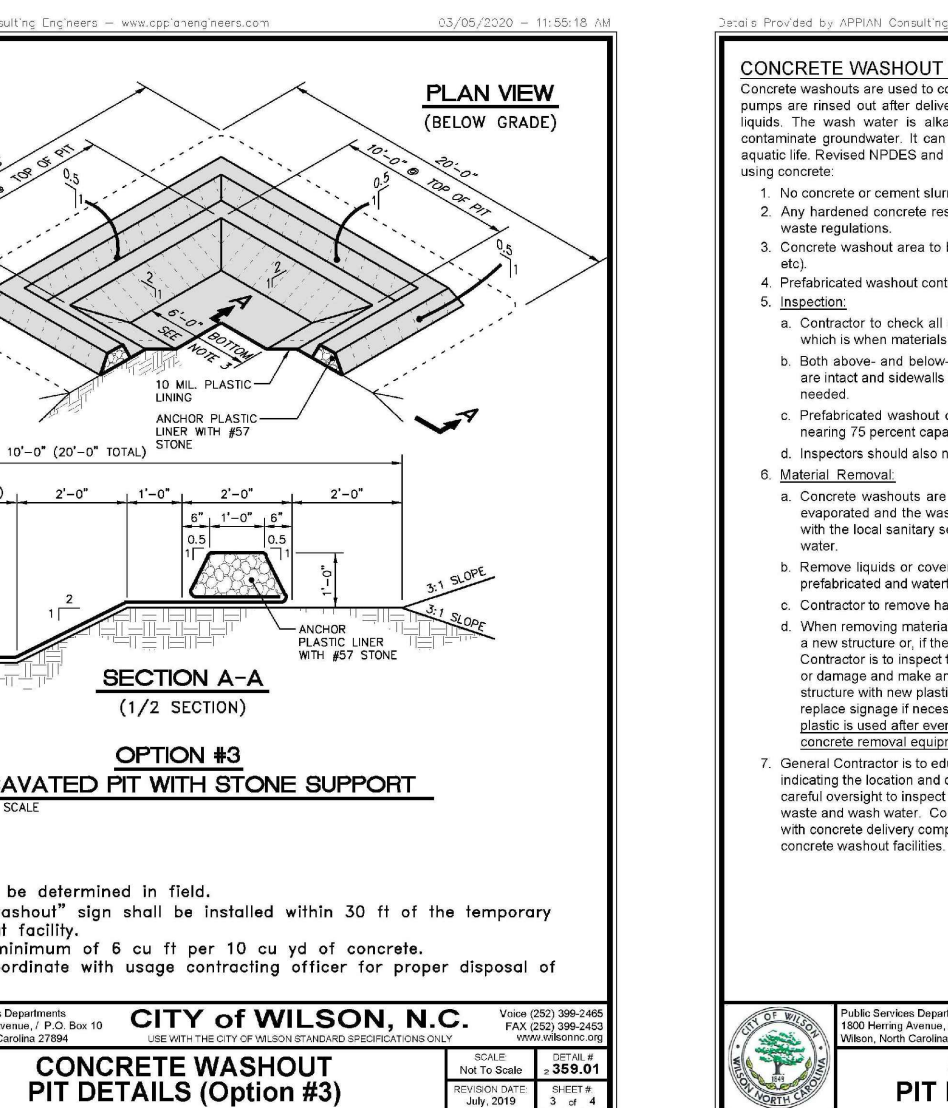
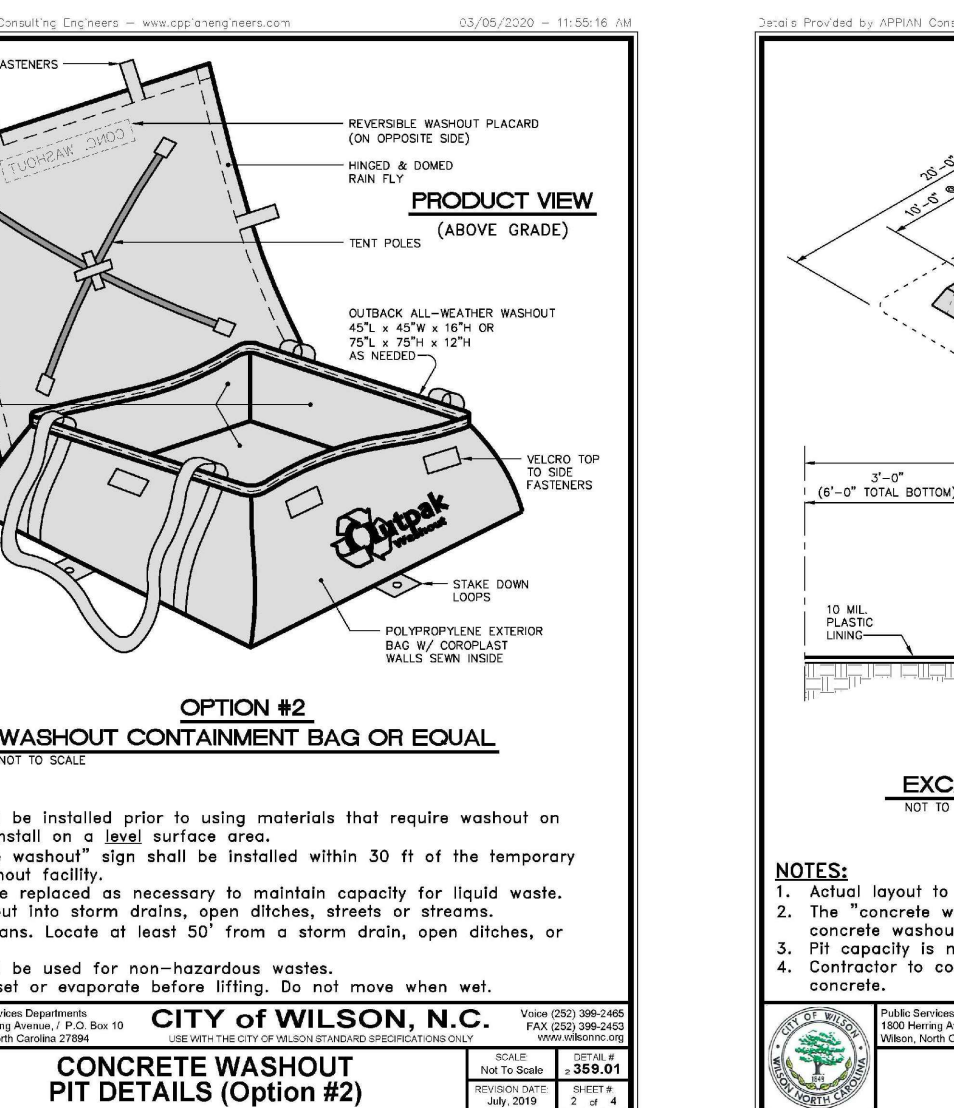
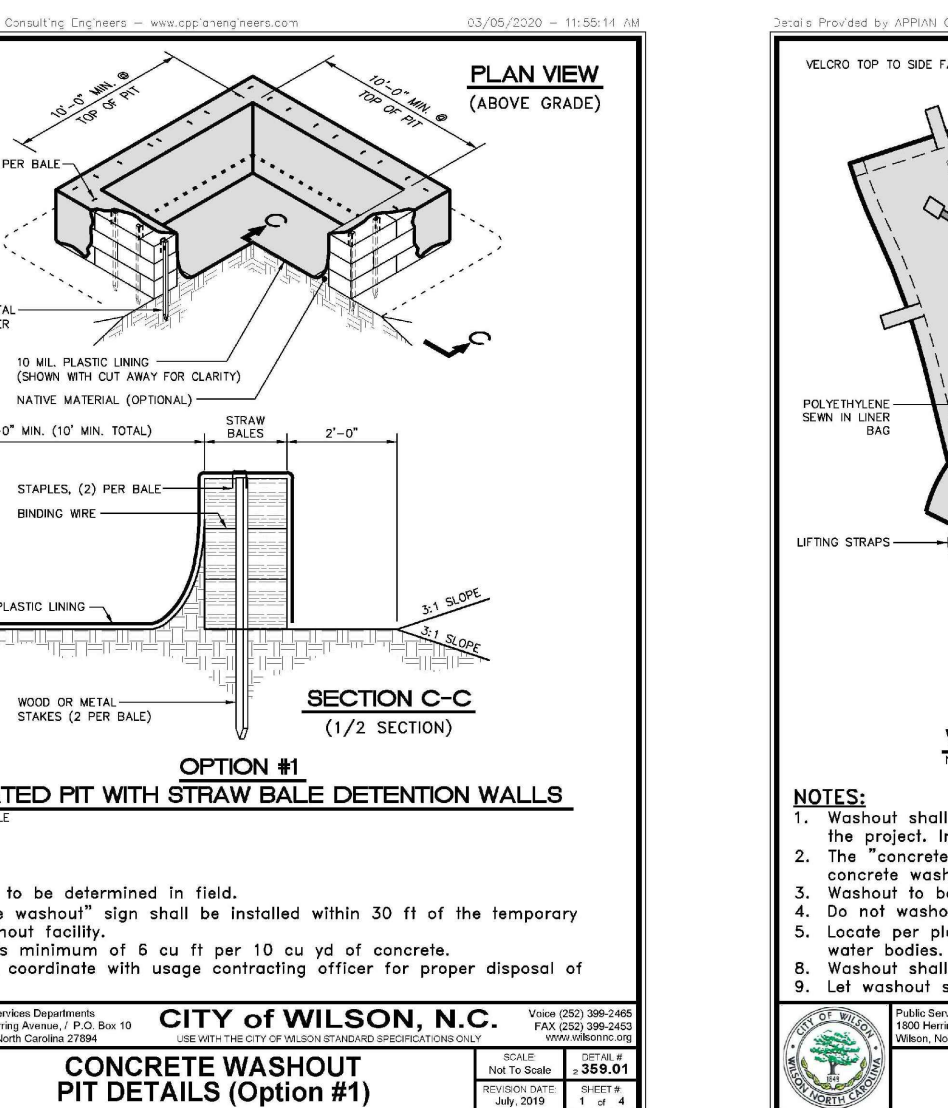
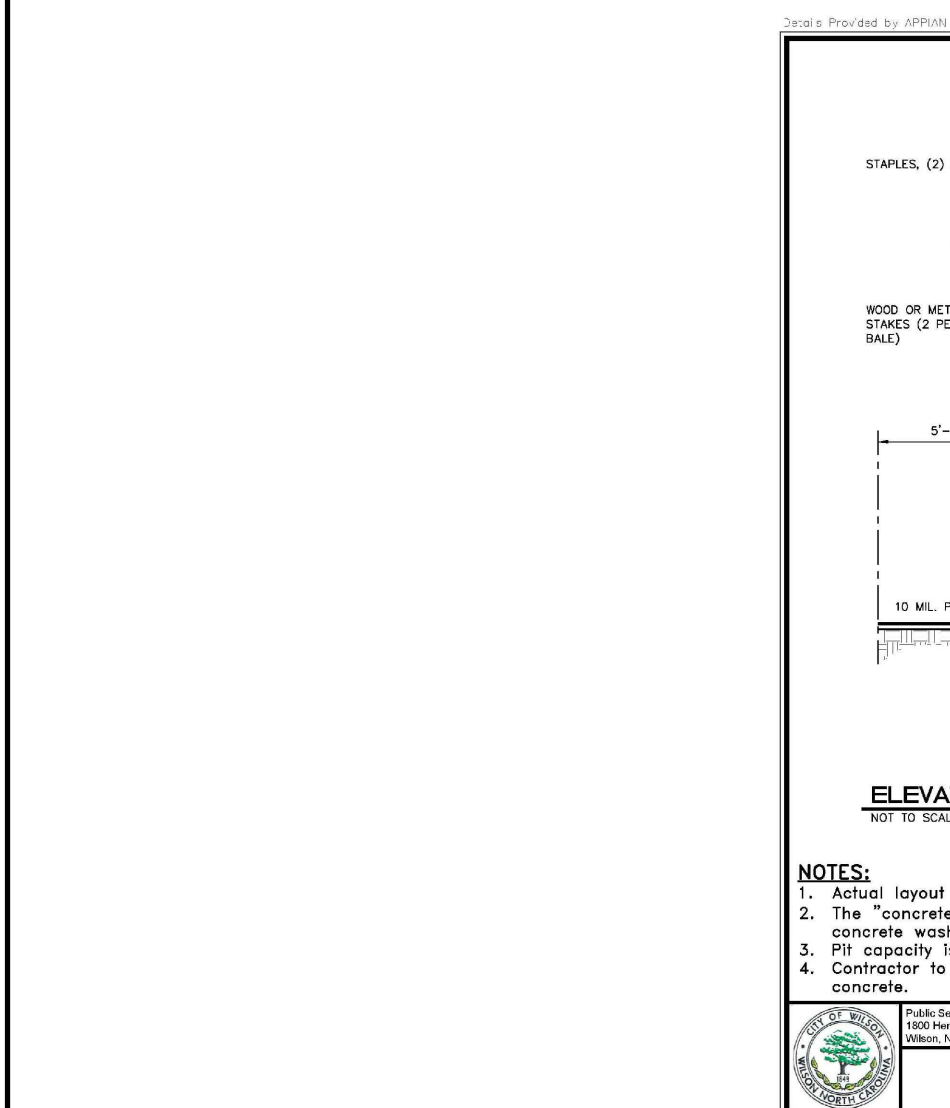
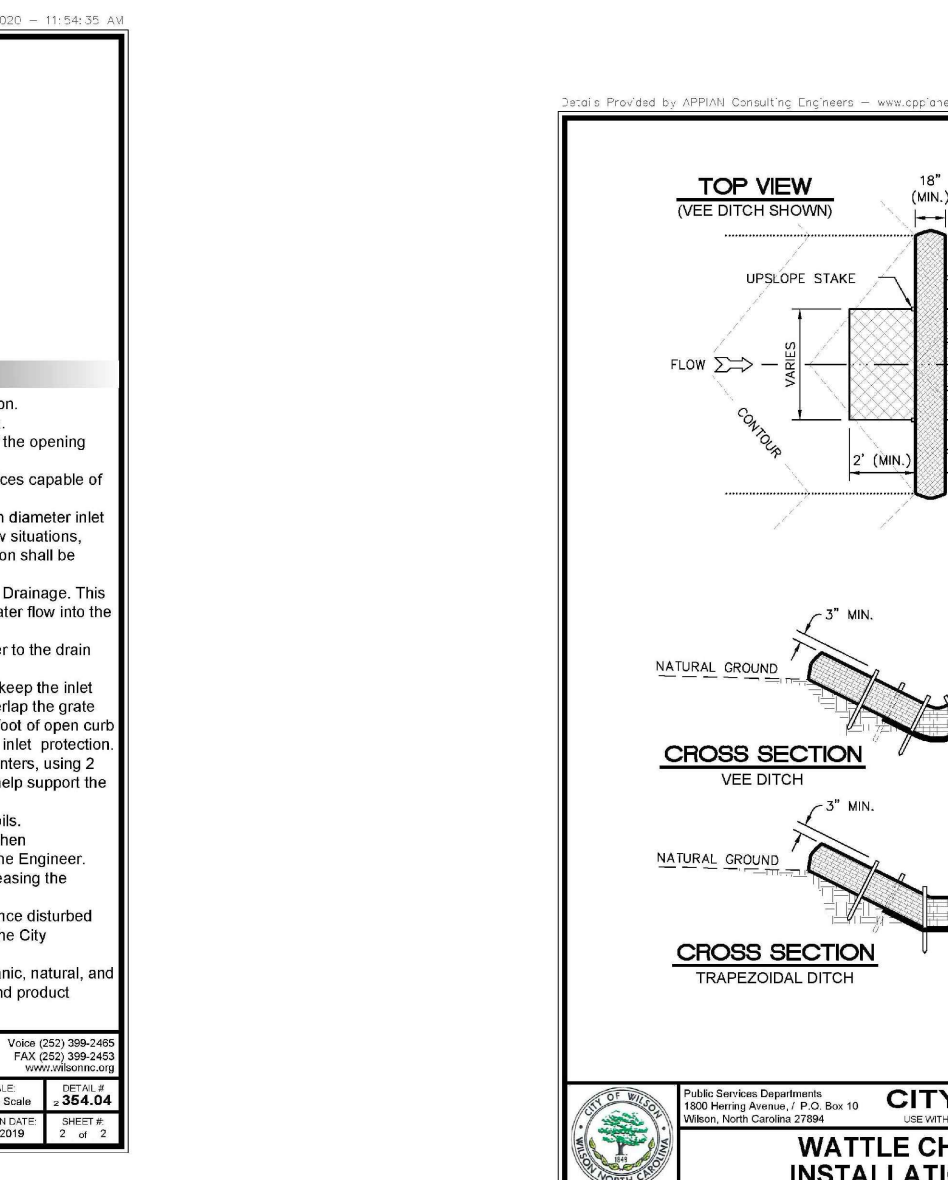
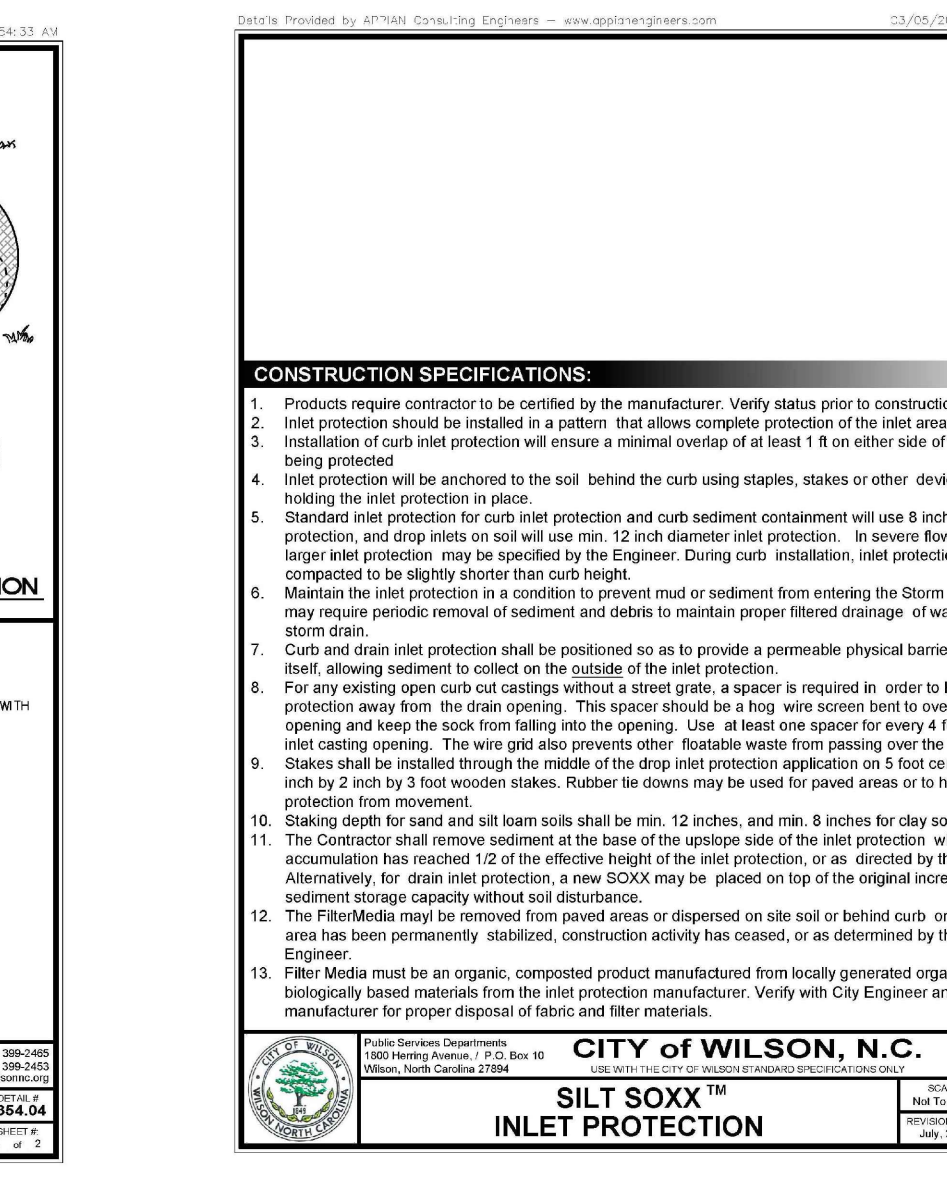
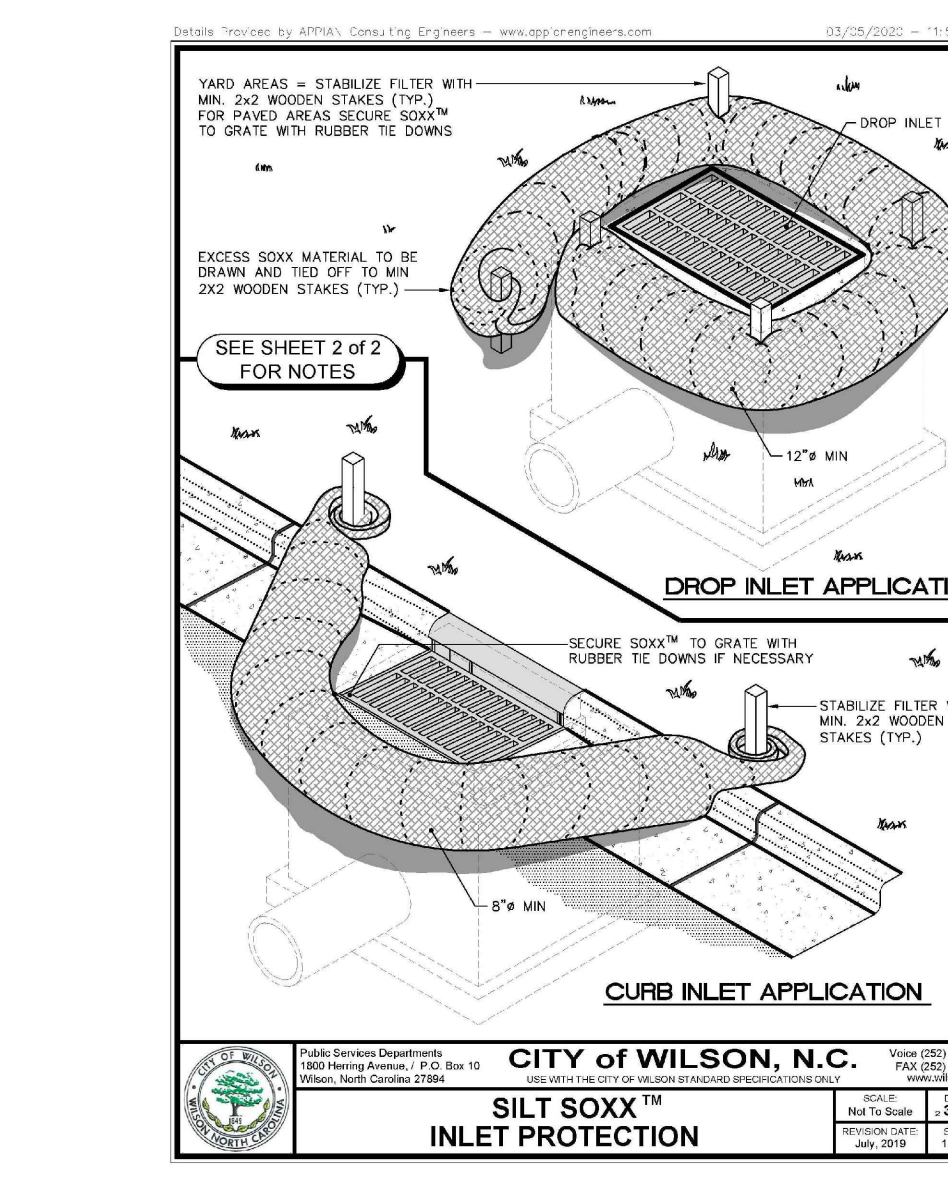
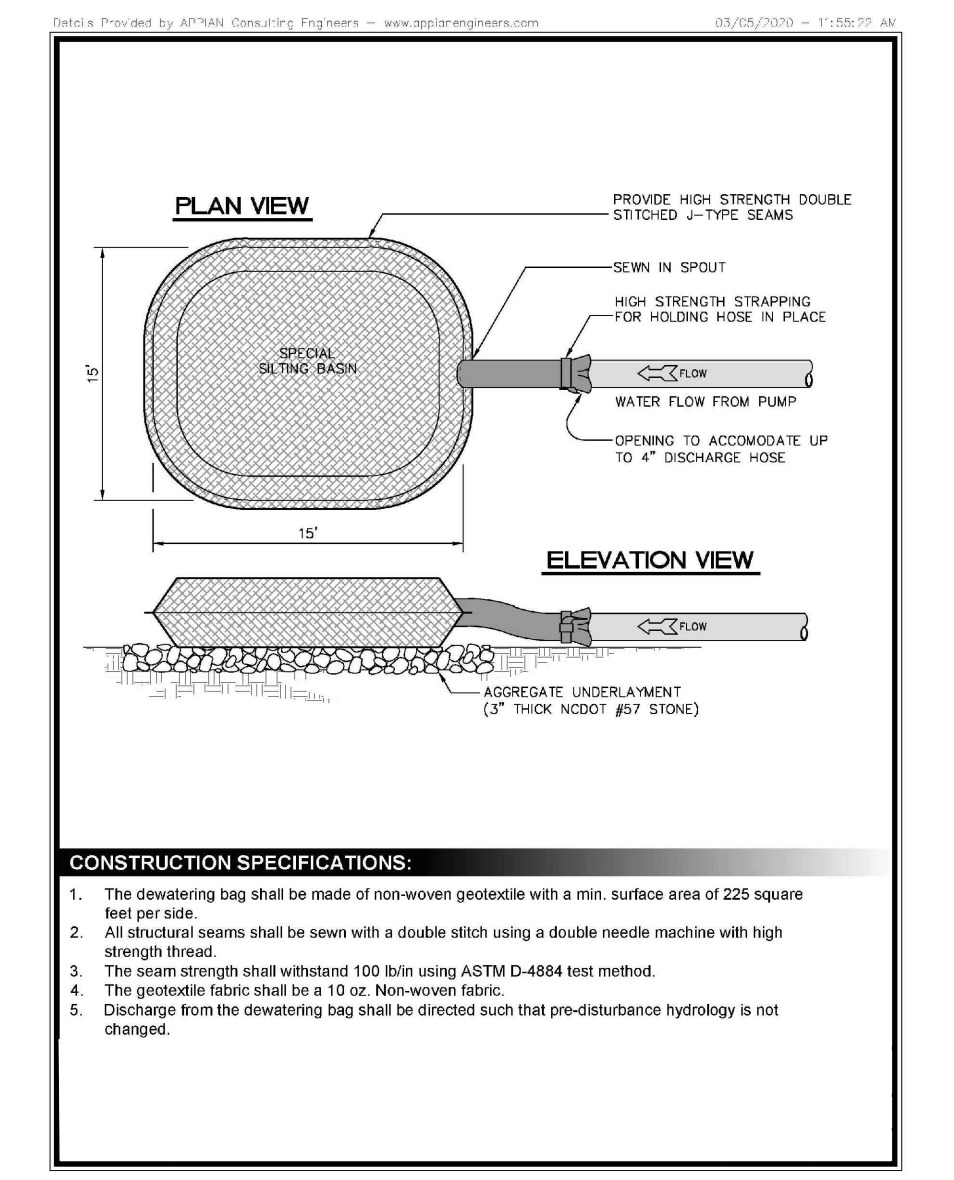
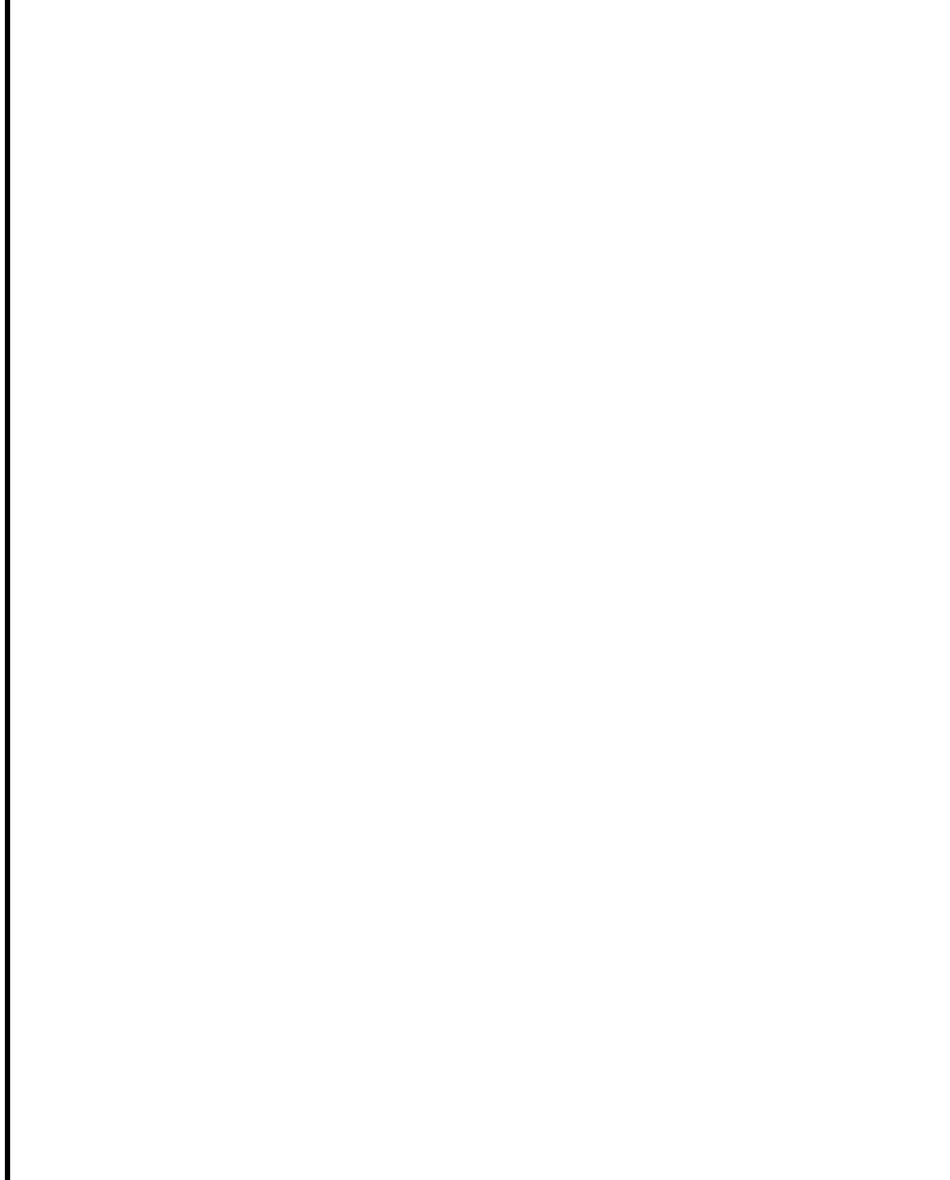
Winter - September 1 - February 28

Lime	2 tons/acre
12-10-10 Fertilizer	700 lbs/acre
Rye Grain	50 lbs/acre
Strew Mulch	2 tons/acre

SEEDING SPECIFICATIONS

1. * Mulch will be doubled if crimping is the method used.
 2. Any variation from these specs must have approval of the Stormwater Program Manager or his/her duly authorized agent.

CITY OF WILSON, N.C.
 Public Service Department
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 TEL: (252) 399-2443
 REVISED: JAN 2019
 SHEET: 1-2-1



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S&E DETAILS

SHERIFF'S DEPT. TRAINING FACILITY

COMMERCE ROAD

DATE: MARCH 2023
 SCALE(HORIZ): N/A
 SCALE(VERT):
 REVISIONS:

PROJECT: 22-481
 CLIENT CODE: CONWAD
 CAD#: 22481SP-REV
 FIELD BOOK: 358
 DRAWN BY: TRB/LRB
 SURVEY BY: DAB/DRB

CITY OF WILSON ETJ WILSON COUNTY

NORTH CAROLINA ZONE: HI

PIN # 3720-14-7262 SHEET DT2

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

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

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

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

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Roll-on erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	<ul style="list-style-type: none"> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Strips or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Roll-on erosion control products with grass seed

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

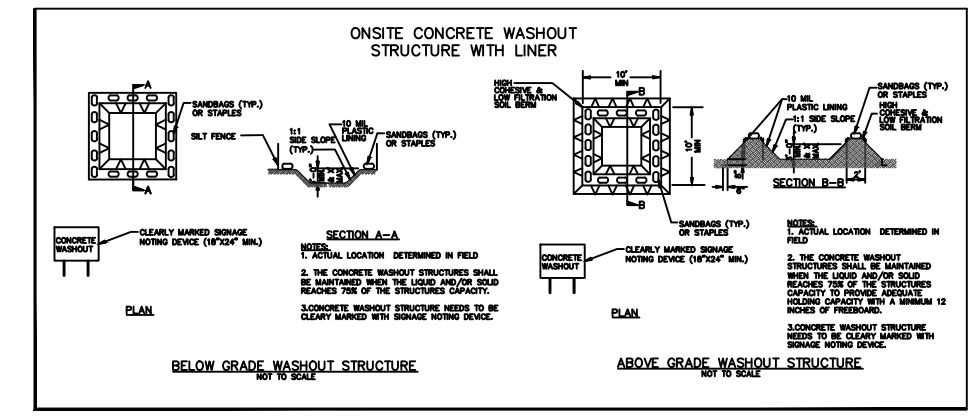
- EQUIPMENT AND VEHICLE MAINTENANCE**
- Maintain vehicles and equipment to prevent discharge of fluids.
 - Provide drip pans under any stored equipment.
 - Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
 - Collect all spent fluids, store in separate containers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

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

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

- PORTABLE TOILETS**
- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
 - Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

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



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

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

- HAZARDOUS AND TOXIC WASTE**
- Create designated hazardous waste collection areas on-site.
 - Place hazardous waste containers under cover or in secondary containment.
 - Do not store hazardous chemicals, drums or bagged materials directly on the ground.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

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

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

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

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING
1. E&SC Plan Documentation
 The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner described:

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

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

- This general permit as well as the certificate of coverage, after it is received.
- Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- All data used to complete the Notice of Intent and other inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

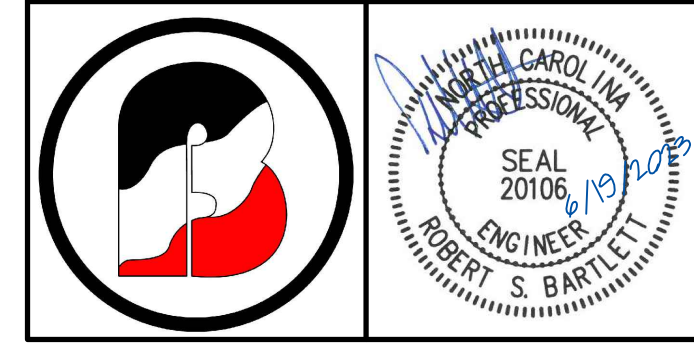
PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING
1. Occurrences that must be reported
 Permittees shall report the following occurrences:

- Visible sediment deposition in a stream or wetland.
 - Oil spills if:
 - They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).
- Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref. 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref. 40 CFR 302.4) or G.S. 143-215.85.
- Anticipated bypasses and unanticipated bypasses.
- Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements
 After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release. Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. [40 CFR 122.41(f)(6)]. Division staff may waive the requirement for a written report on a case-by-case basis.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(f)(7)]	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. [40 CFR 122.41(f)(6)]. Division staff may waive the requirement for a written report on a case-by-case basis.



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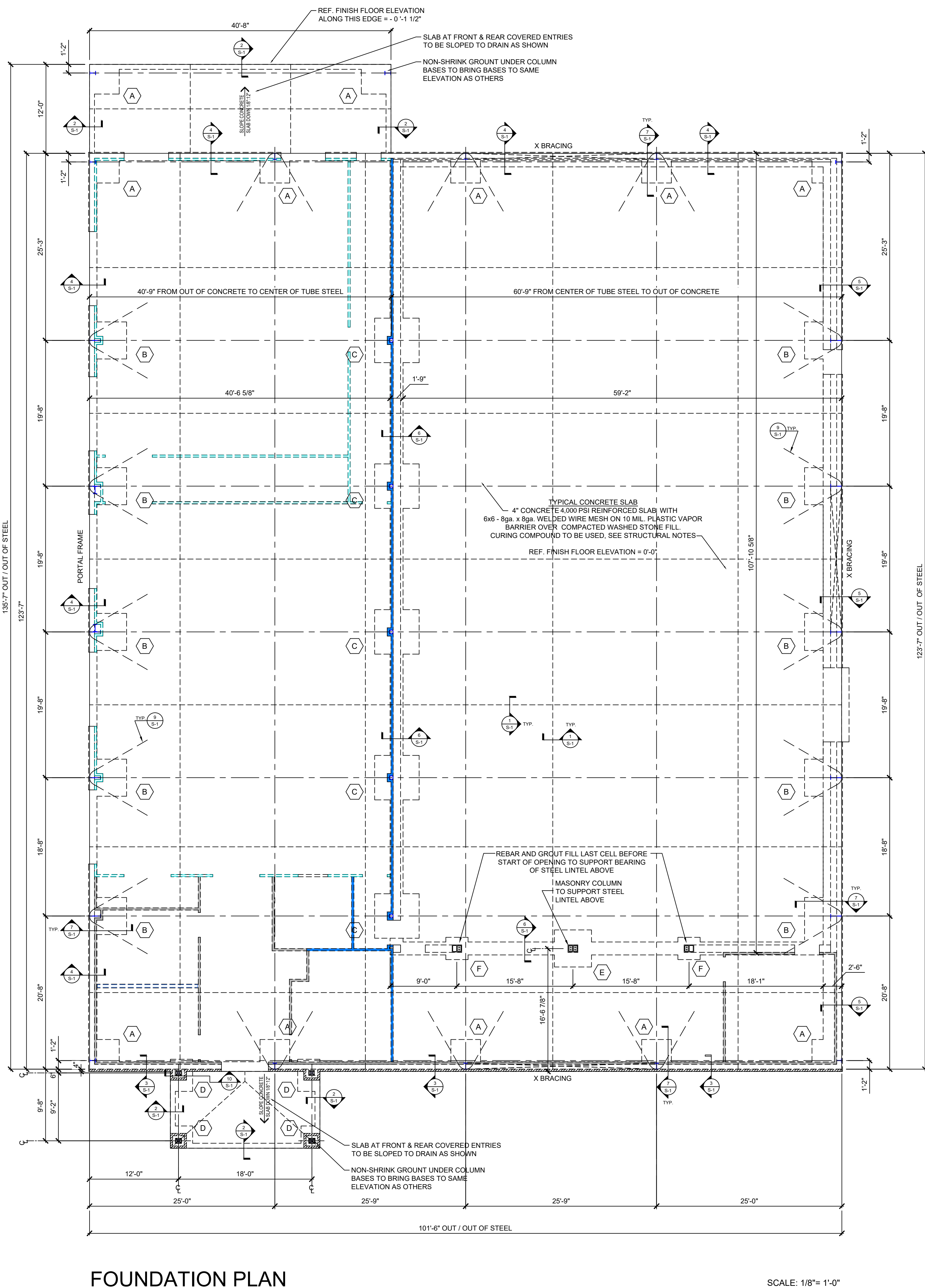
S&E NCG01
 DETAILS

SHERIFF'S DEPT. TRAINING FACILITY
 COMMERCE ROAD

DATE: MARCH 2023	PROJECT: 22-481
SCALE(HORIZ): N/A	CLIENT CODE: CONDAW CADFILE: 22-481-SPI-REV
SCALE(VERT):	FIELD BOOK: 358
	DRAWN BY: TRB/LR
	SURVEY BY: DAB/DRB
REVISIONS:	

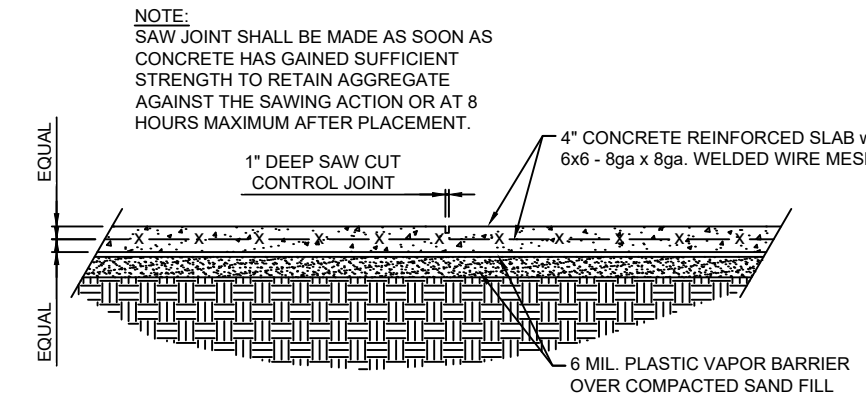
CITY OF WILSON ETJ	WILSON COUNTY
NORTH CAROLINA	ZONE: HI
PIN # 3720-14-7262	SHEET DT3

P:\CADD\LANDPROJECTS\CONDAW\22-481\SPI-REV.DWG, Jun 19, 2023, 1:04PM EST

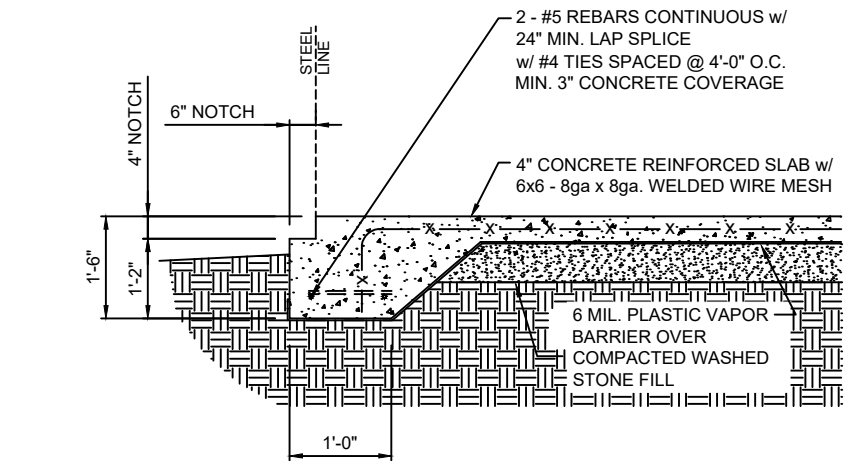


FOUNDATION PLAN

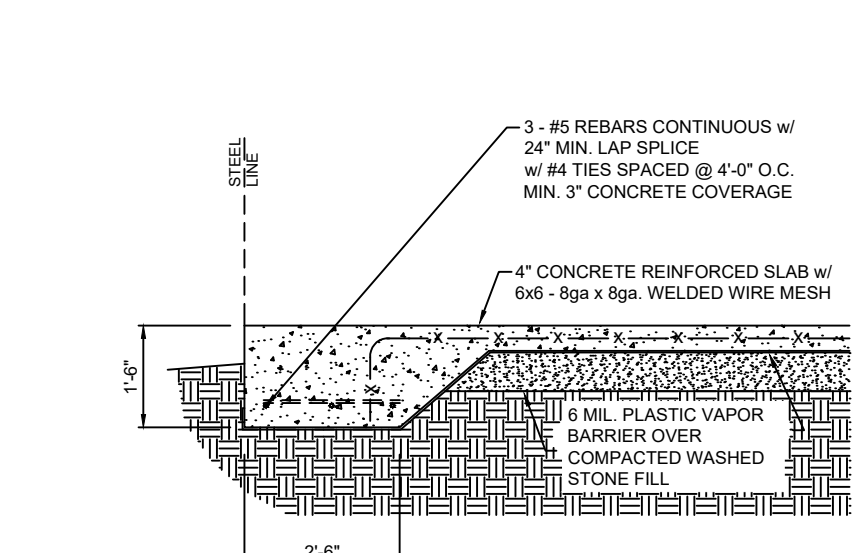
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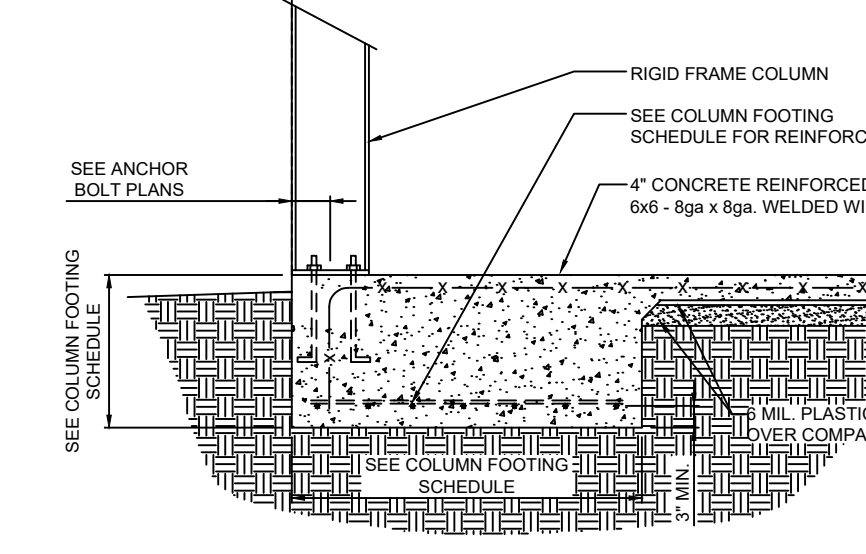
1 DETAIL SCALE: N.T.S.
S-1 TYP. CONTROL JOINT



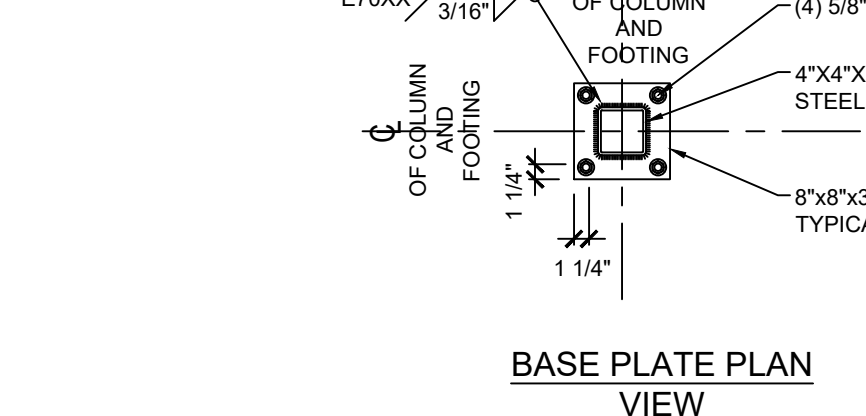
2 DETAIL SCALE: N.T.S.
S-1 TURN DOWN FOOTING w/ NOTCH @ FRONT WALL



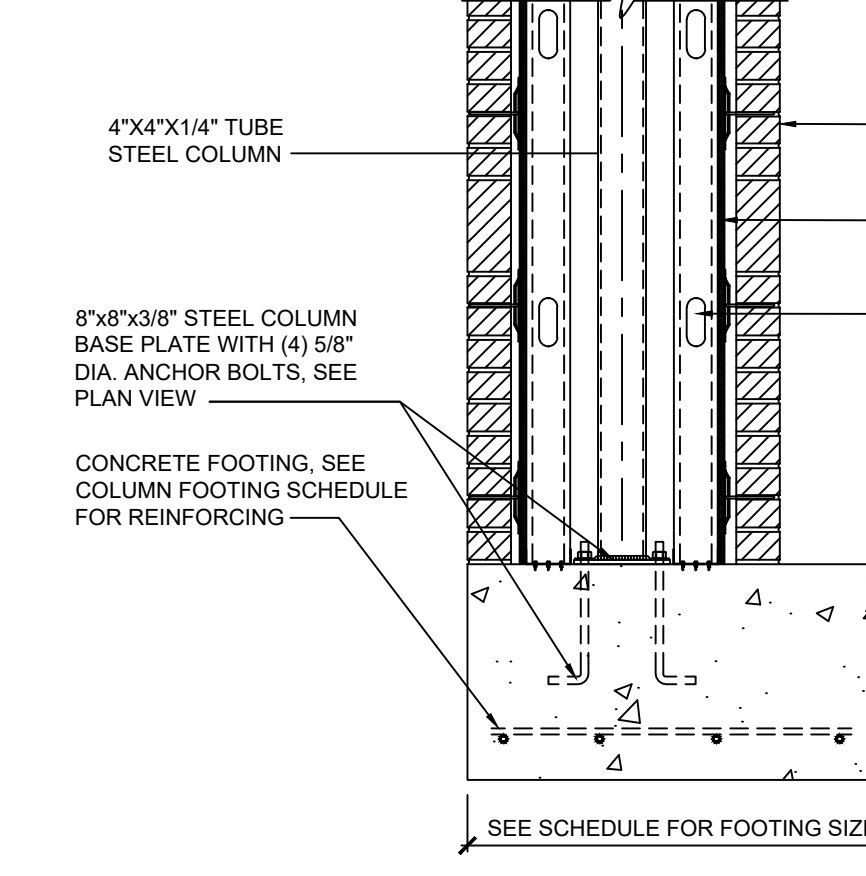
3 DETAIL SCALE: N.T.S.
S-1 TURN DOWN FOOTING WITHOUT NOTCH



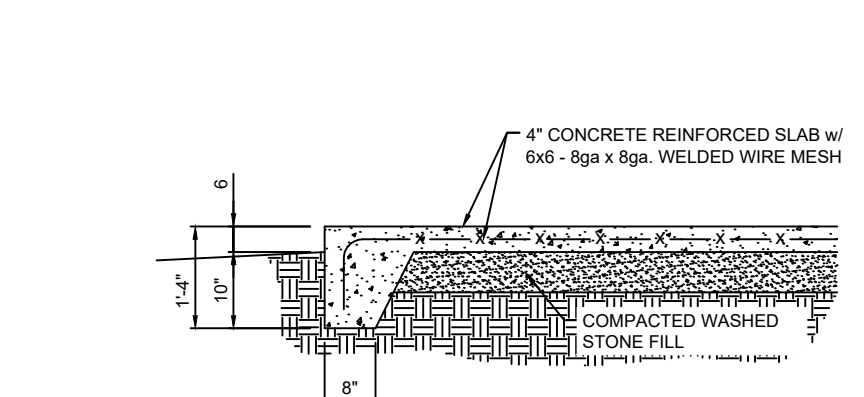
4 DETAIL SCALE: N.T.S.
S-1 TYP. PERIMETER COLUMN FOOTING



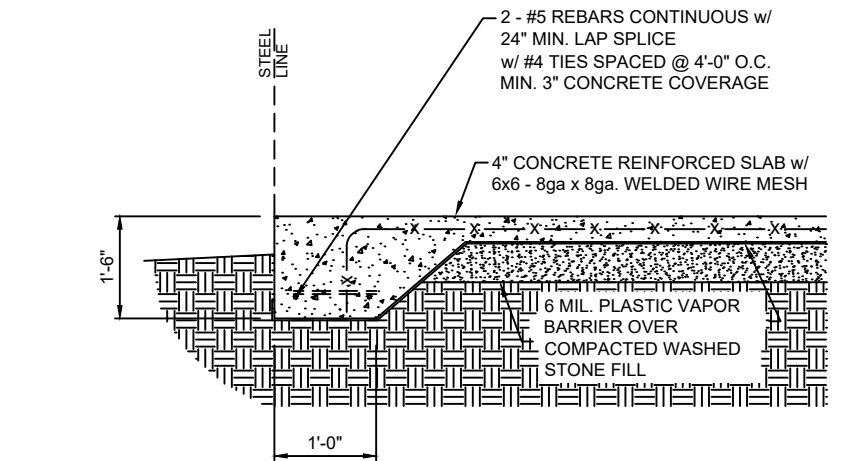
5 DETAIL SCALE: N.T.S.
S-1 TYP. ANCHOR BOLT FOR METAL BUILDING FRAME



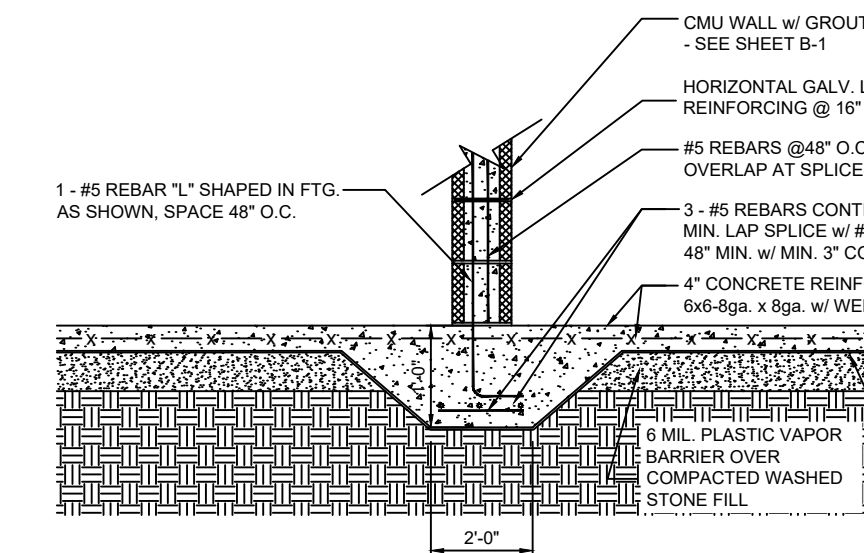
6 DETAIL SCALE: N.T.S.
S-1 TYPICAL HAIRPIN TIE



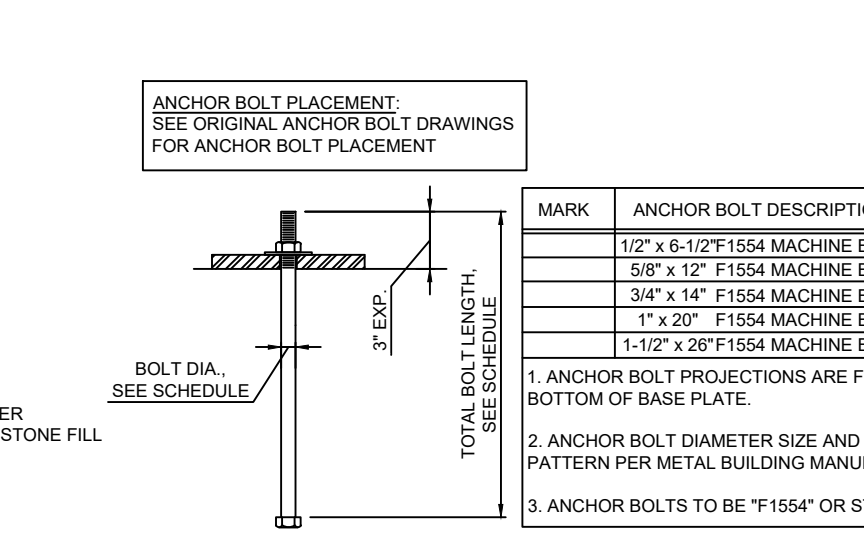
7 DETAIL SCALE: N.T.S.
S-1 TURN DOWN FOOTING WITHOUT NOTCH



8 DETAIL SCALE: N.T.S.
S-1 THICKENED FOOTING



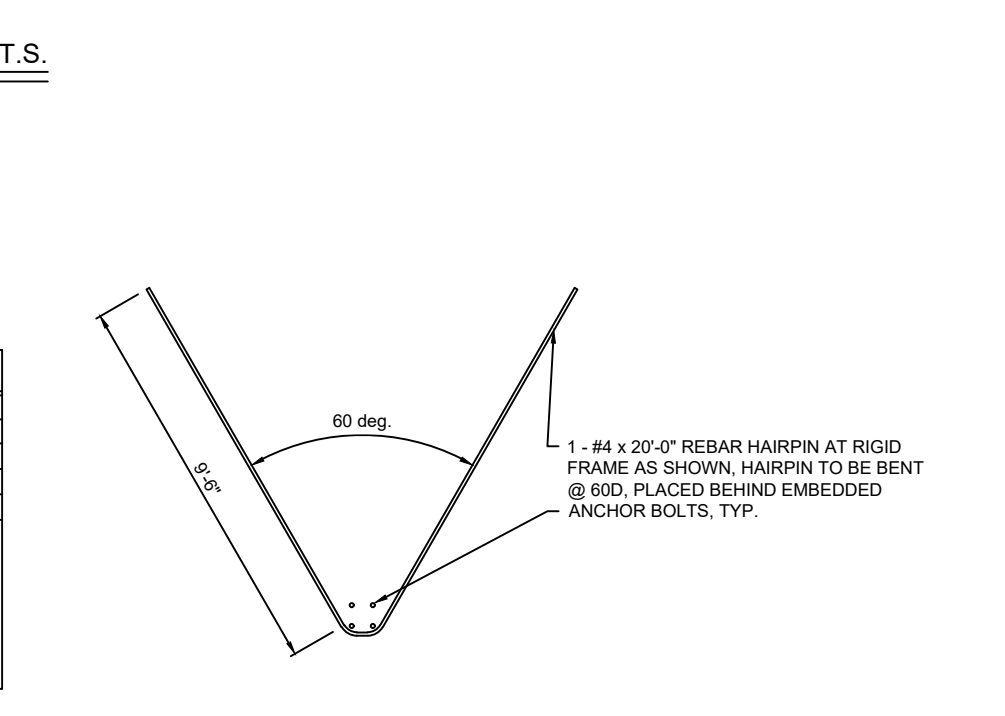
9 DETAIL SCALE: N.T.S.
S-1 TYP. PERIMETER COLUMN FOOTING



10 DETAIL SCALE: N.T.S.
S-1 TYP. ANCHOR BOLT FOR METAL BUILDING FRAME

COLUMN FOOTING SCHEDULE	
SYMBOL	DESCRIPTION
A	ENDWALL FOOTING: 4'-0" x 4'-0" x 1'-6" DEEP THICKENED CONCRETE SLAB w/ (5) #5 REBARS, EACH WAY, BOTTOM ONLY, EQUALLY SPACED MIN. 3" CONCRETE COVERAGE
B	CORNER FOOTING: 5'-0" x 5'-0" x 1'-6" DEEP THICKENED CONCRETE SLAB w/ (6) #5 REBARS, EACH WAY, TOP & BOTTOM, EQUALLY SPACED MIN. 3" CONCRETE COVERAGE
C	CORNER FOOTING: 6'-0" x 6'-0" x 1'-6" DEEP THICKENED CONCRETE SLAB w/ (7) #5 REBARS, EACH WAY, TOP & BOTTOM, EQUALLY SPACED MIN. 3" CONCRETE COVERAGE
D	CORNER FOOTING: 3'-0" x 3'-0" x 1'-6" DEEP THICKENED CONCRETE SLAB w/ (4) #4 REBARS, EACH WAY, TOP & BOTTOM, EQUALLY SPACED MIN. 3" CONCRETE COVERAGE
E	MASONRY COLUMN FOOTING: 5'-0" x 5'-0" x 1'-6" DEEP THICKENED CONCRETE SLAB w/ (6) #5 REBARS, EACH WAY, BOTTOM ONLY, EQUALLY SPACED MIN. 3" CONCRETE COVERAGE (2) #5 DOWELS w/ 8" LONG, 90° BEND EACH CELL - GROUT FILLED
F	MASONRY COLUMN FOOTING: 3'-0" x 3'-0" x 1'-2" DEEP THICKENED CONCRETE SLAB w/ (4) #5 REBARS, EACH WAY, BOTTOM ONLY, EQUALLY SPACED MIN. 3" CONCRETE COVERAGE LAST CELL IN WALL TO HAVE (2) #5 BARS AND FILLED WITH GROUT

NOTES:
 1. USE 4,000 PSI CONCRETE STRENGTH
 2. TOP OF SLAB REF. ELEVATION = 100'-0" PER DRAWINGS FROM METAL BUILDING MANUFACTURER.
 3. DEPTH OF FOOTINGS MEASURED FROM TOP OF CONCRETE SLAB.



12 DETAIL SCALE: N.T.S.
S-1 TYPICAL HAIRPIN TIE

GENERAL NOTES:

- ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE STATEWIDE BUILDING CODE AND TO THE SPECIFICATIONS AND STANDARDS OF THE LOCAL BUILDING INSPECTIONS OFFICE.
- CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS PRIOR TO BEGINNING WORK, WITH ANY DISCREPANCY BROUGHT TO THE ATTENTION OF THE DESIGNER.
- OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF SUBGRADE CONDITIONS.
- FOOTINGS ARE DESIGNED FOR SOIL HAVING A MINIMUM BEARING OF 2000 P.S.F.
- ALL CONCRETE TO BE NORMAL WEIGHT CONCRETE WITH 3000 P.S.I. MINIMUM @ 28 DAY STRENGTH.
- WELDED WIRE FABRIC TO CONFORM ASTM A-185 MATERIAL AND HAVE 8" LAPS.
- ANCHOR BOLT PATTERN AND DIAMETER PER METAL BUILDING MANUFACTURER.

DESIGN NOTES:

2018 NORTH CAROLINA BUILDING CODE
 OCCUPANCY CATEGORY= NORMAL
 ROOF LIVE LOAD = 20 PSF
 COLL. LOAD = 5 PSF
 SNOW LOAD = 15.0 PSF
 Ce = 1
 IMPORTANCE FACTOR = 1.00
 WIND SPEED = 120 MPH
 EXPOSURE = C
 INTERNAL PRESSURE COEFFICIENT = 0.18
 WIND IMPORTANCE FACTOR = 1.00
 SITE CLASS = D
 DESIGN CATEGORY = B
 SEISMIC IMPORTANCE FACTOR (IE) = 1.00
 Ss = 18.3%
 S1 = 7.3%
 Sds = 0.195
 Sd1 = 0.117

REINFORCING STEEL: Reinforcing bars shall be deformed billet steel bars conforming to (ASTM A - 615) specifications.
 MINIMUM YIELD STRENGTH (fy): Reinforcing bars
 60,000 psi Unless otherwise detailed,
 protective concrete cover for reinforcing steel shall not be less than:
 (a) Concrete cast against and permanently exposed to earth
 SNOW LOAD = 3" (b) Concrete exposed to earth or weather #5 & smaller 1-1/2" #6 & larger 2" MINIMUM TENSION LAP SPlice LENGTHS (lc = 3,000psi) 18"
 22" #5 27" #6
 32" #8 42" WWF laps to 12" minimum. WWF to conform to ASTM A-185

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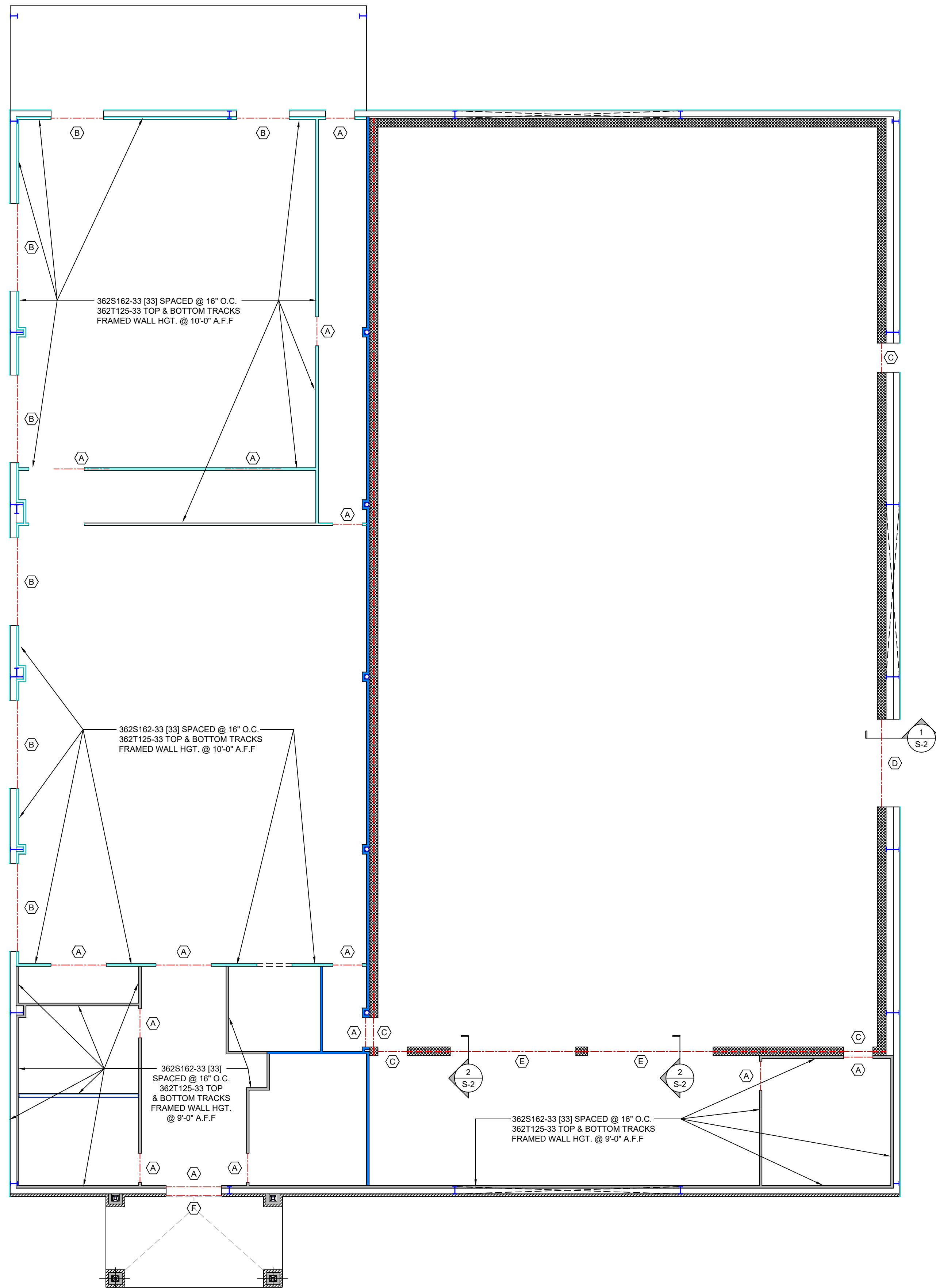
PE Seal

Rev: Date: Description:

Title Sheet: **FOUNDATION PLAN & DETAILS**

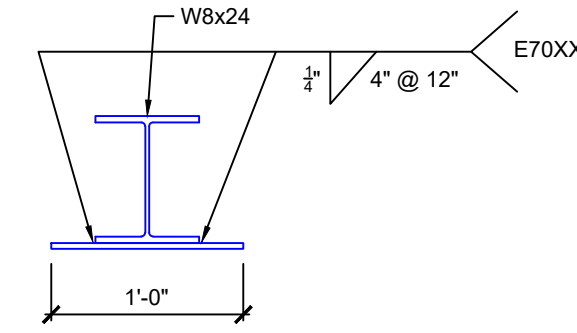
Project: **Wilson County Sheriffs Office Training Facility**
 2764 Commerce Road Wilson, NC 27893

Drawn by: **PADEN R.**
 Issue Date: **02.07.2025**
 Project Number: **24-102**
 Sheet: **S-1**

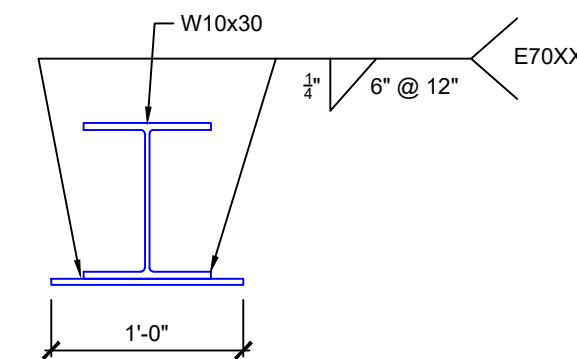


LIGHT GAUGE METAL STUD FRAMING PLAN

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



1 SECTION SCALE: 1" = 1'-0"
S-2 HEADER @ 10' OVHD DOOR IN STORAGE



2 SECTION SCALE: 1" = 1'-0"
S-2 HEADER @ INTERIOR WINDOW OPENING

WALL LEGEND	
SYMBOL	DESCRIPTION
	BRICK VENEER
	12" CMU BLOCK WALL w/ GROUT FILLED CELLS TO 12'-8" A.F.F.
	2 HR. RATED, 12" CMU BLOCK WALL w/ GROUT FILLED CELLS TO ROOF DECKING
	METAL BUILDING WALL 8" GIRT DEPTH, 1-1/2" EXTERIOR WALL PANEL
	LIGHT GAUGE METAL STUDS @ 16" O.C. SEE SH. S-2 FOR STUD SIZES AND HEIGHTS
	LIGHT GAUGE METAL STUDS @ 16" O.C. SEE SH. S-2 FOR STUD SIZES AND HEIGHTS
	LIGHT GAUGE METAL STUDS @ 16" O.C. FRAMED TO UNDERSIDE OF ROOF DECK ABOVE. SEE SH. S-2 FOR STUD SIZES
	PLUMBING WALL LIGHT GAUGE METAL STUDS @ 16" O.C. SEE SH. S-2 FOR STUD SIZES AND HEIGHTS

HEADER SCHEDULE	
SYMBOL	DESCRIPTION
(A)	BOX HEADER (2) 362S162-33 [33] 362T125-33 TOP & BOTTOM TRACK (1) 362S162-33 w/ (1) 362T125-33 KING STUD EACH END MAX. CLEAR SPAN 9'-4"
(B)	BOX HEADER @ CLERESTORY WINDOWS (2) 600S162-43 [33] 362T125-43 TOP & BOTTOM TRACK MAX. CLEAR SPAN 10'-0"
(C)	MASONRY HEADER 12" HEADER BLOCK w/ (2) #5 BARS - GROUT FILLED 8" OF BEARING ON EACH END
(D)	STEEL LINTEL @ OVHD DOOR W8x24 w/ 3/8" PLATE, 12" WIDE 8" OF BEARING ON EACH END
(E)	STEEL LINTEL @ INTERIOR WINDOW OPENINGS W10x30 w/ 3/8" PLATE, 12" WIDE 8" OF BEARING ON EACH END BEAM TO BE CONTINUOUS OVER CENTER COLUMN
(F)	STEEL ANGLE LINTEL @ BRICK VENEER WALL ENTRY 5" x 3.5" x 5/16" STEEL ANGLE - (LLV) MIN. BEARING OF 6" EACH SIDE

NOTES:
 1. TOP OF CONCRETE SLAB REF. ELEVATION = 0'-0"
 2. HEIGHTS OF MEMBERS MEASURED FROM TOP OF CONCRETE SLAB.
 3. T.O.S. = TOP OF STEEL
 4. B.O.S. = BOTTOM OF STEEL
 5. ALL MASONRY JAMBS TO HAVE (2) #5 BARS AND FILLED w/ GROUT

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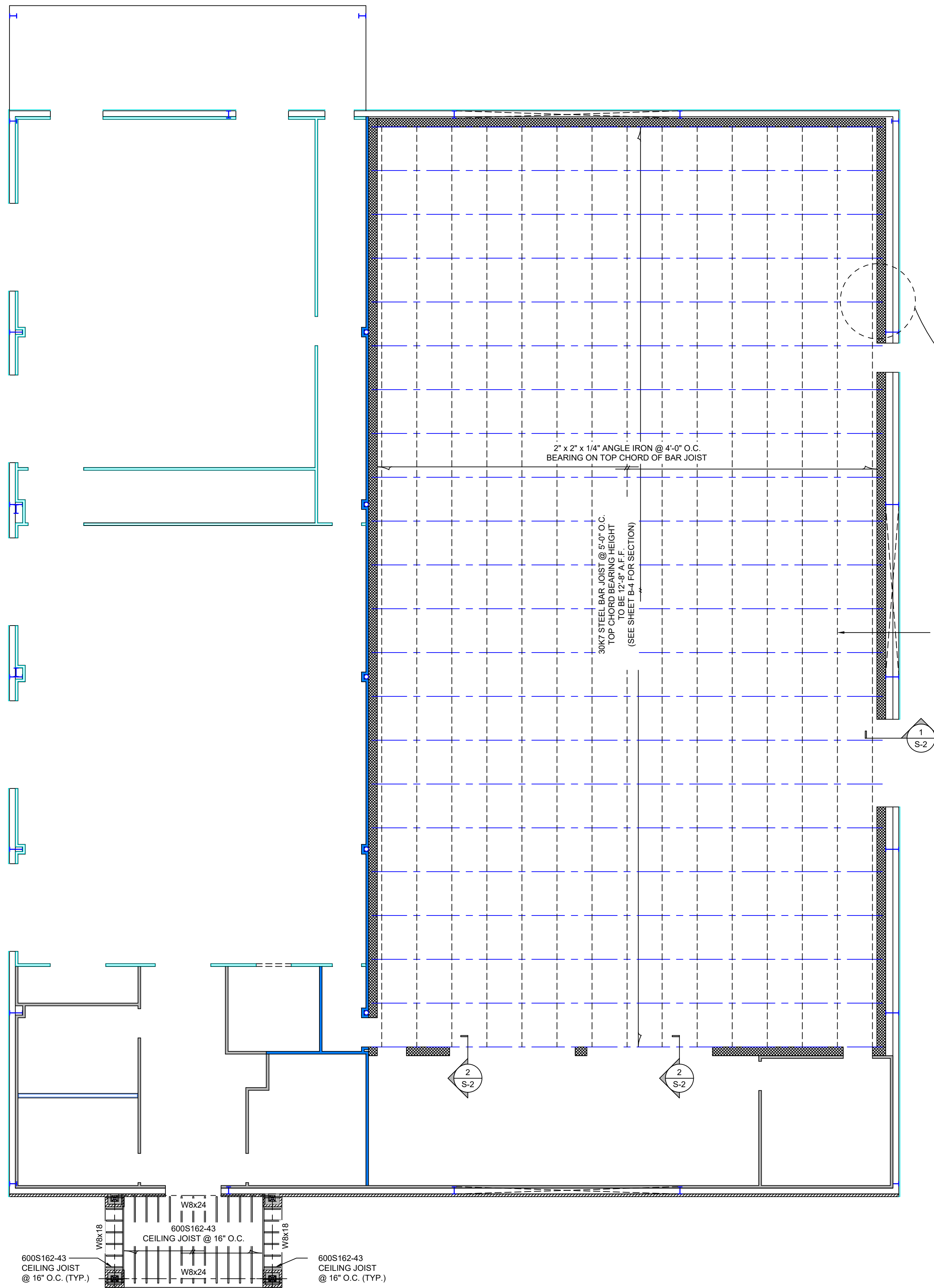
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Rev.	Date:	Description:

Wilson County Sheriff's Office
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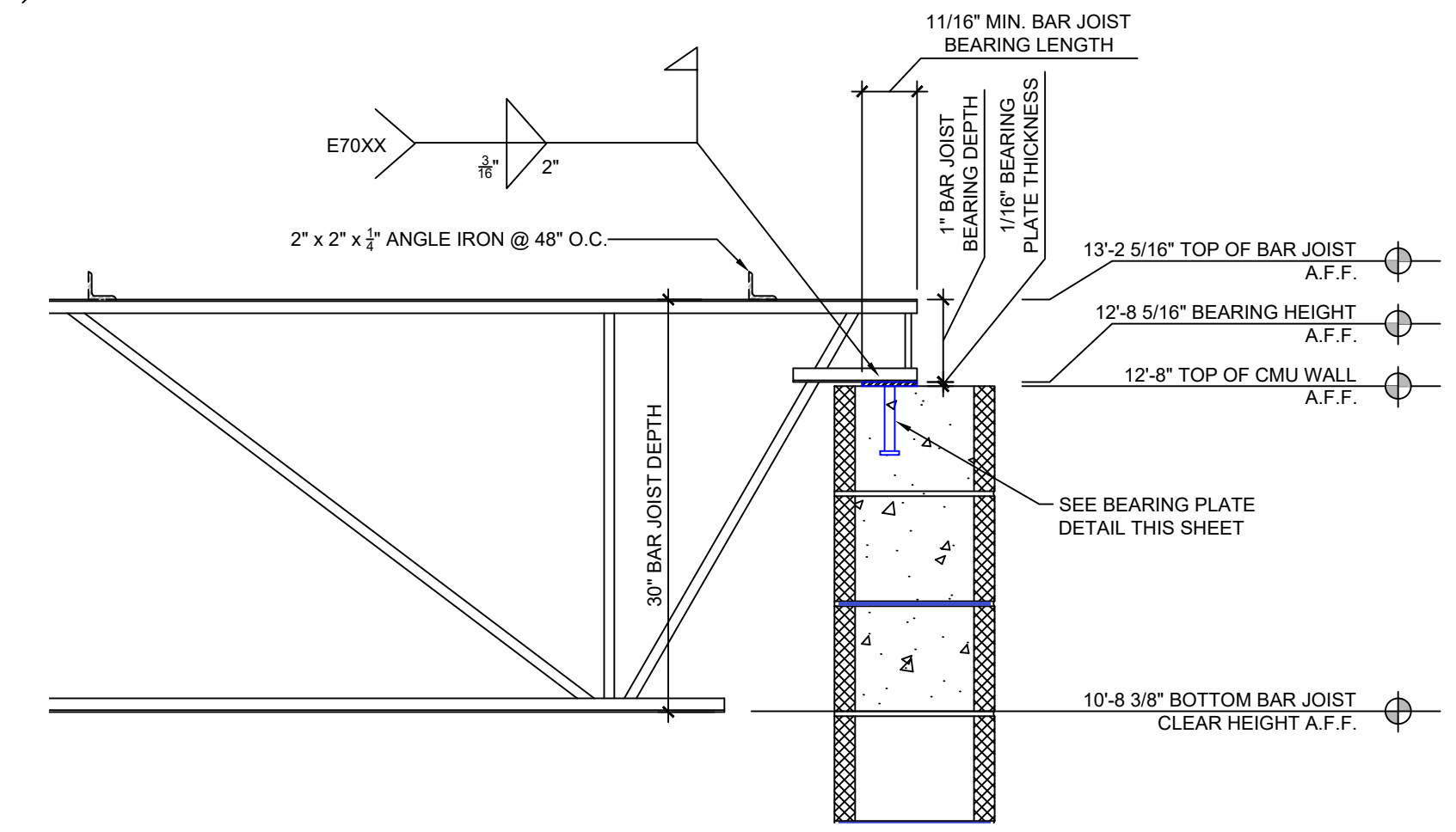
Drawn by: PADEN R.
 Issue Date: 02.07.2025
 Project Number: 24-102
 Sheet: **S-2**



CEILING FRAMING PLAN

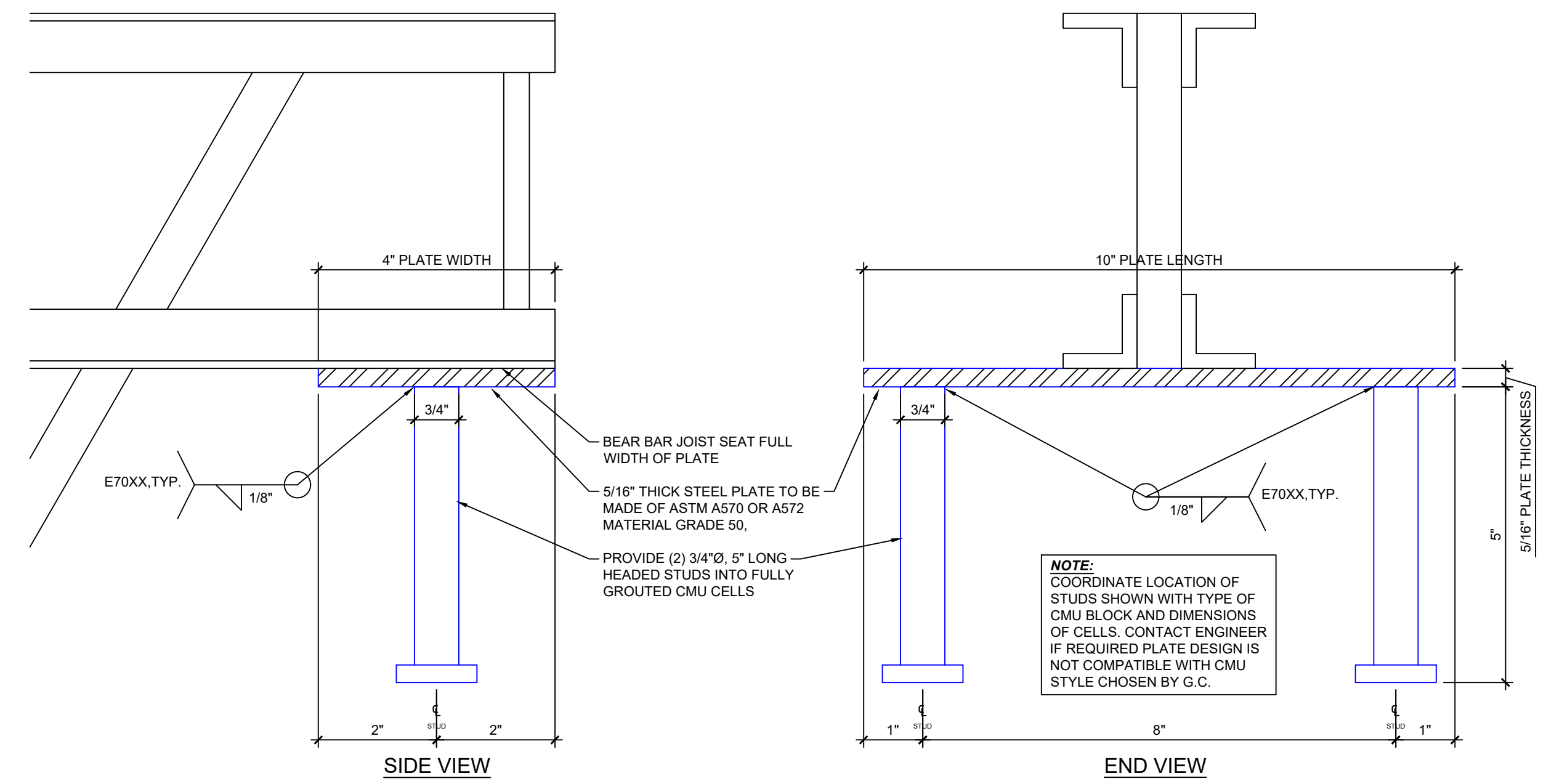
SCALE: 1/8" = 1'-0"

WALL LEGEND	
SYMBOL	DESCRIPTION
	BRICK VENEER
	12" CMU BLOCK WALL w/ GROUT FILLED CELLS TO 12'-8" A.F.F.
	2 HR. RATED, 12" CMU BLOCK WALL w/ GROUT FILLED CELLS TO ROOF DECKING
	METAL BUILDING WALL 8" GIRT DEPTH, 1-1/2" EXTERIOR WALL PANEL
	LIGHT GAUGE METAL STUDS @ 16" O.C. SEE SH. S-2 FOR STUD SIZES AND HEIGHTS
	LIGHT GAUGE METAL STUDS @ 16" O.C. SEE SH. S-2 FOR STUD SIZES AND HEIGHTS
	LIGHT GAUGE METAL STUDS @ 16" O.C. FRAMED TO UNDERSIDE OF ROOF DECK ABOVE. SEE SH. S-2 FOR STUD SIZES
	PLUMBING WALL LIGHT GAUGE METAL STUDS @ 16" O.C. SEE SH. S-2 FOR STUD SIZES AND HEIGHTS



BAR JOIST BEARING DETAIL

SCALE: 1" = 1'-0"



BEARING PLATE DETAIL

SCALE: 6" = 1'-0"

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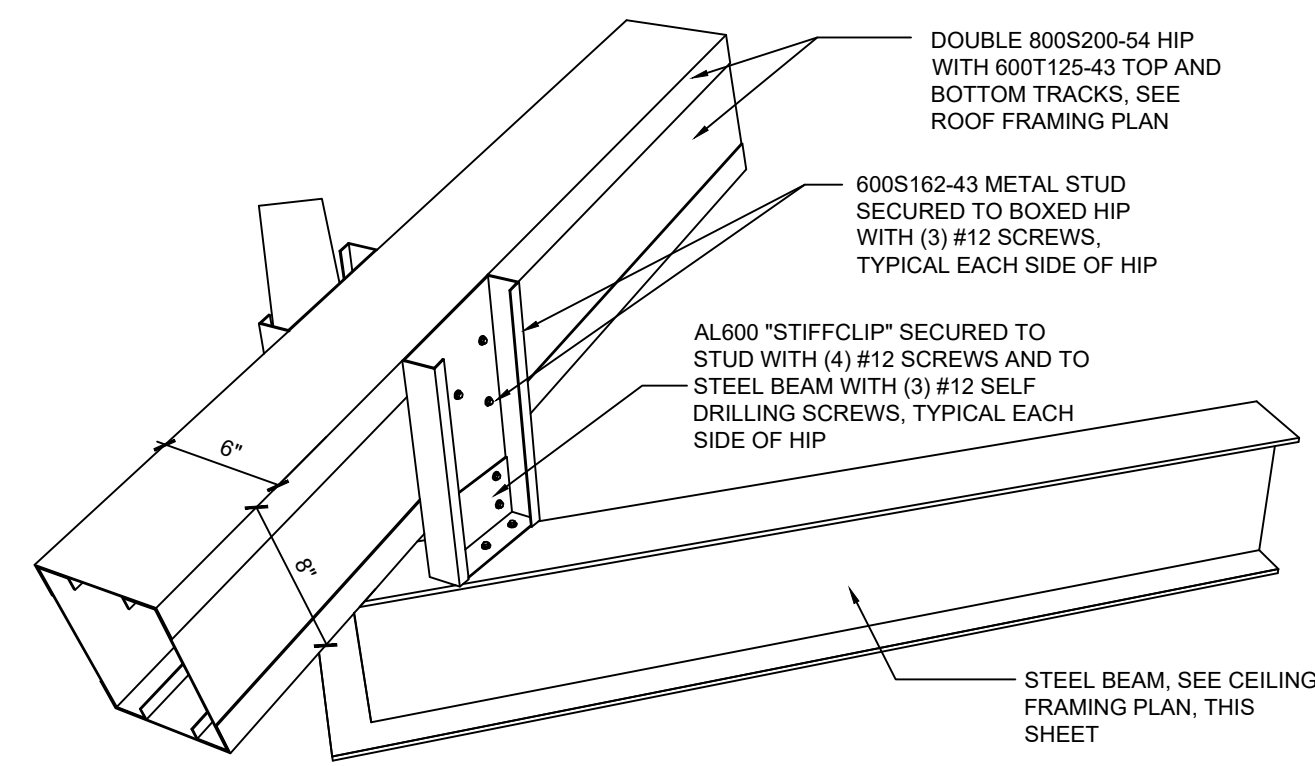
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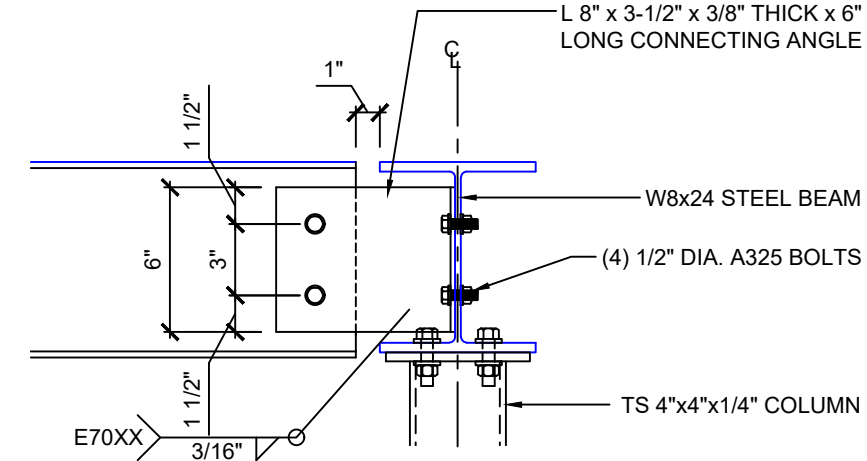
Title Sheet: **BAR JOIST FRAMING PLAN**

Project: **Wilson County Sheriff's Office Training Facility**
 2764 Commerce Road Wilson, NC 27893

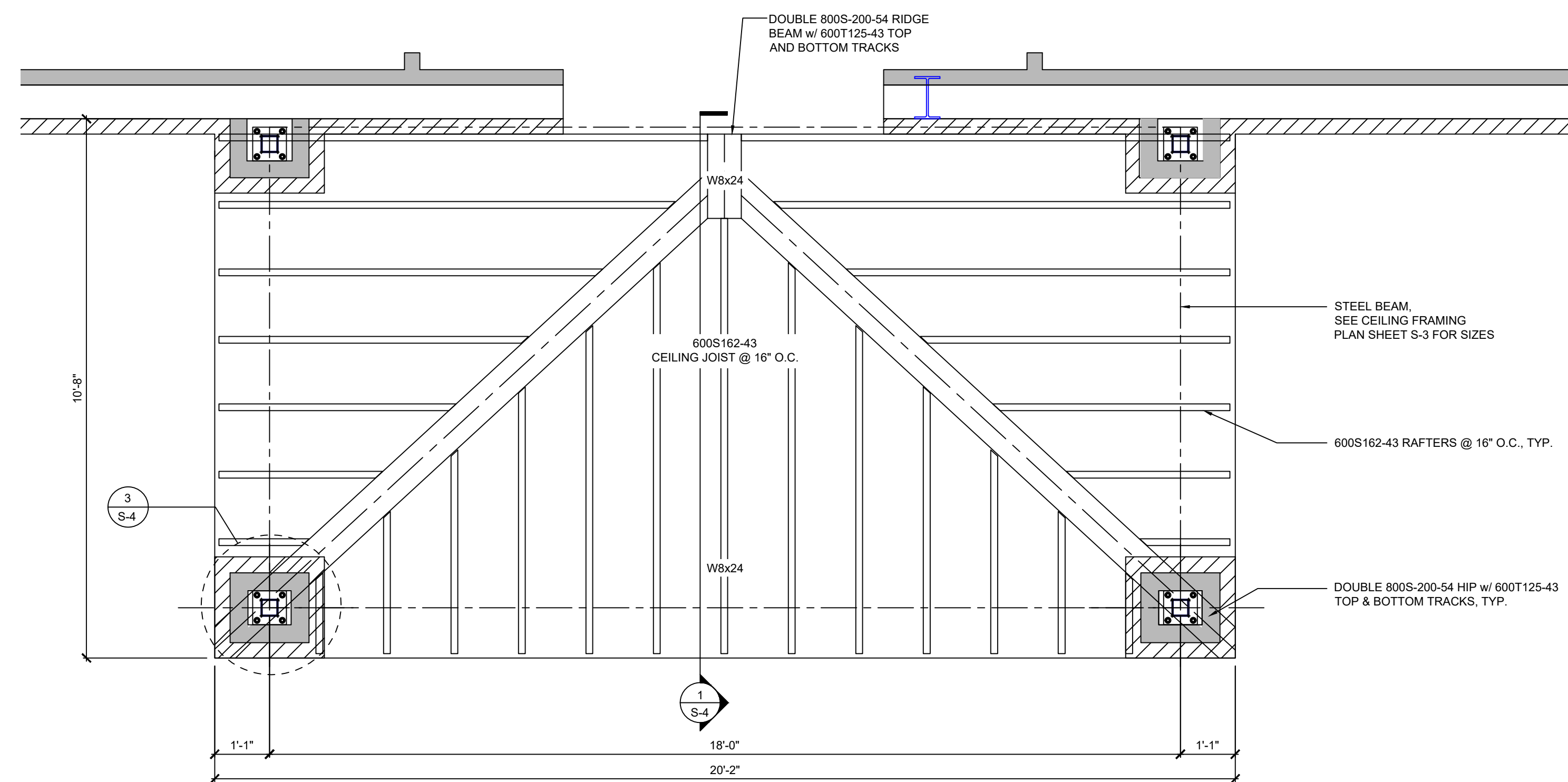
Drawn by: **PADEN R.**
 Issue Date: **02.07.2025**
 Project Number: **24-102**
 Sheet: **S-3**



3 DETAIL
S-4 BEAM CONNECTION N.T.S.

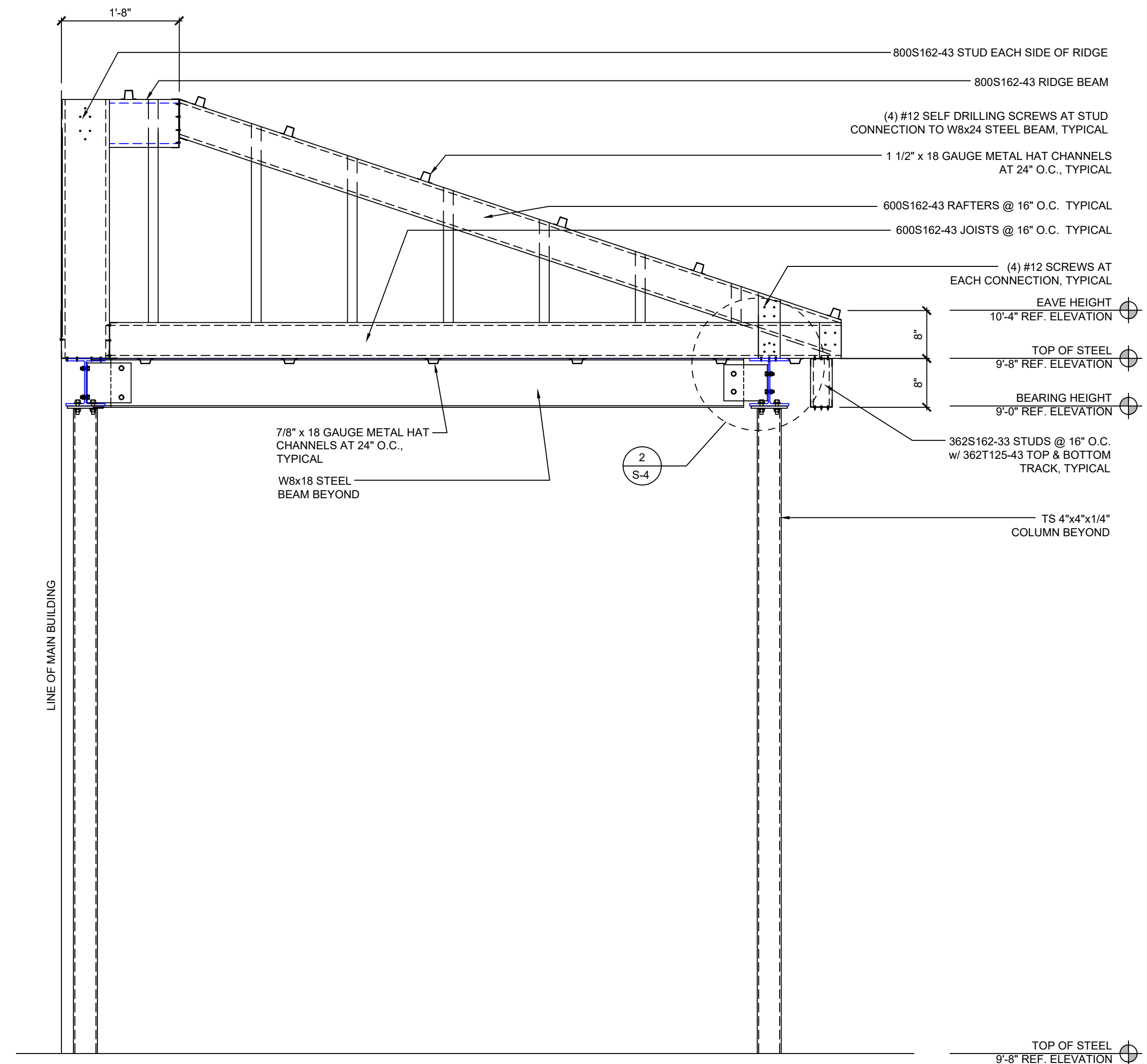


2 DETAIL
S-4 BEAM CONNECTION N.T.S.



ROOF FRAMING PLAN

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



1 SECTION
S-4 COLD FORM & STEEL CONNECTION @ PORCH

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

PE Seal

Rev.	Date	Description

Title Sheet: CANOPY FRAMING PLAN & DETAILS

Project: Wilson County Sheriff's Office Training Facility
2764 Commerce Road Wilson, NC 27893

Drawn by: PADEN R.
Issue Date: 02.07.2025
Project Number: 24-102
Sheet: S-4

Owner: Wilson County Sheriff's Office
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05 40 00 - COLD FORM METAL FRAMING SHOP DRAWINGS

GENERAL NOTES:

DESIGN
LIGHT GAGE STEEL ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2018 NORTH CAROLINA BUILDING CODE (IBC 15) AND THE 2001/04 SUPPLEMENT AISI NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL MEMBERS WITH THE FOLLOWING PARAMETERS:
OCCUPANCY CATEGORY = I
IMPORTANCE FACTOR, WIND = 1.00

WIND
WIND SPEED = 120 MPH
EXPOSURE CATEGORY C
MAXIMUM DEFLECTION AT BRICK/MASONRY = L/600

MATERIALS
1) DESIGNATIONS FOR STUDS AND ACCESSORIES ARE BASED ON THE STANDARD DESIGNATIONS FOR THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) & THE STEEL NETWORK, INC.
2) STEEL STUDS AND TRACKS SHALL MEET THE REQUIREMENTS OF ASTM C955 AND SHALL BE GALVANIZED WITH G60 COATING OR THICKER
3) STEEL STUDS AND TRACKS OF LESS THAN 18 GAGE (54 MIL) SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 KSI, GREATER THAN OR EQUAL TO 54 MIL SHALL HAVE MINIMUM YIELD STRENGTH OF 50 KSI
4) STEEL STUDS AND TRACKS OF HEAVIER GAGE OR LARGER FLANGE THAN SPECIFIED ON THESE DRAWINGS MAY BE SUBSTITUTED WITHOUT APPROVAL
5) ALL PLATE MATERIAL SHALL HAVE A YIELD STRENGTH OF 50 KSI
6) ALL WELDS ARE TO BE PERFORMED BY AN A.W.S CERTIFIED WELDER USING E70XX ELECTRODES

FASTENERS
1) FRAMING SCREWS SHALL BE CORROSION RESISTANT, SELF-DRILLING SCREWS OF THE SIZE DESIGNATED ON THE DRAWINGS. WHERE SPECIFIC SIZE SCREWS ARE NOT SPECIFIED, #12 SCREWS ARE TO BE USED
2) PAF'S (PAF'S) SHALL BE:
CONCRETE - HILTI X-U 0.157" DIAMETER, MINIMUM EMBEDMENT IS 1"
STEEL - HILTI X-U 0.157" DIAMETER, MINIMUM EMBEDMENT IS 1/4"
3) THIS SUBMITTAL IS BASED ON FASTENER TENSILE AND SHEAR VALUES FROM THE 2011 HILTI TECHNICAL MANUAL. OTHER FASTENERS OF EQUAL CAPACITY MAY BE SUBSTITUTED
4) MINIMUM SPACING OF FRAMING SCREWS: FASTENER TO EDGE OF STEEL - 1.5D, FASTENER TO FASTENER - 3D, WHERE D IS THE DIAMETER OF THE FRAMING SCREW

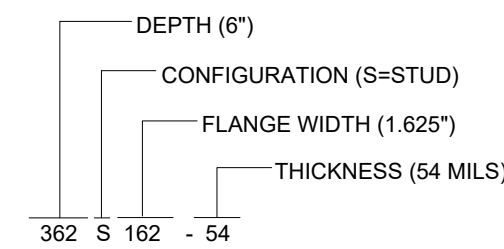
TABLE T.1

SUPPORT TYPE	SUGGESTED FASTENER
STRUCTURAL STEEL, CONCRETE, OR CMU BEARING	0.145"Ø P.D.F.
WOOD	#(MIN) APPROPRIATE SCREW
LIGHT GAUGE METAL FRAMING	#12-16 SCREWS

- EXECUTION
- THIS SUBMITTAL SHOWS THE INTENDED APPLICATION OF THE COLD FORMED STEEL FRAMING. THE CONTRACTOR SHALL REFER TO THE CONTRACT DOCUMENTS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
 - CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIAL OR BEGINNING ANY ASSEMBLY OR ERECTION
 - ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD POSITIVELY IN PLACE UNTIL PROPERLY FASTENED.
 - ALL FIELD CUTTING OF STUDS AND TRACKS MUST BE DONE BY SAWING OR SHEARING. NO TORCH CUTTING PERMITTED
 - NO SPLICES IN STUDS, HEADERS, OR OTHER LOAD CARRYING MEMBERS ARE ALLOWED WITHOUT DETAILS SUPPLIED BY THE ENGINEER OF RECORD.
 - THE FOLLOWING SHALL BE USED FOR PAF UNLESS OTHERWISE NOTED: CONCRETE: MIN. EDGE DISTANCE = 2.75" MIN. CENTERLINE SPACING = 2.75" MIN. EMBEDMENT = 1" STEEL: MIN. EDGE DISTANCE = 0.5" MIN. MIN. CENTERLINE SPACING = 1" MIN. EMBEDMENT = 1/4"
 - STRUCTURAL FRAMING AT WINDOWS AND DOORS NOT DESIGNED TO SUPPORT BRICK DEAD LOADS NOR PROVIDE BEARING END SUPPORT FOR BRICK SHELVES.
 - ANY DISCREPANCIES IN THESE SHOP DRAWINGS MUST BE MADE KNOWN TO THE DESIGN ENGINEERS FOR REVIEW AND CORRECTION
 - DEVIATIONS FROM THESE SHOP DRAWINGS SHALL NOT BE MADE IN THE FIELD. MODIFICATIONS SHALL BE DESIGNED AND DETAILED BY A DESIGN ENGINEER PRIOR TO IMPLEMENTATION.
 - THE INSTALLATION OF COLD-FORMED CONNECTORS AND ASSOCIATED FASTENERS SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS

CFS ABBREVIATIONS

CONT	CONTINUOUS
EA	EACH
MIN	MINIMUM
OC	ON CENTER
PAF	POWDER ACTUATED FASTENER
REF	REFERENCE
SDS	SELF DRILLING SCREWS
SER	STRUCTURAL ENGINEER OF RECORD
SIM	SIMILAR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE



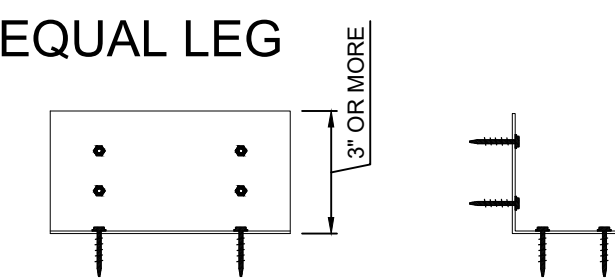
CONFIGURATION TABLES	
S	SSMA CEE STUD
T	TRACK
CRC	COLD-ROLLED CHANNEL
FS	FLAT STRAP

MILS	GAGE
33	20
43	18
54	16
68	14
97	12
118	10

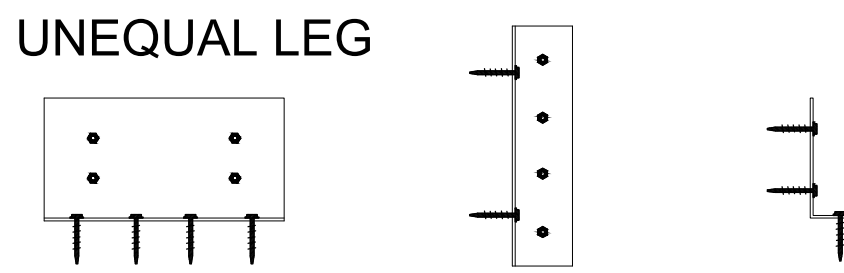
Sections	
STUD	362S162-54mil, 33 ksi
TRACK	362T125-43, 33 ksi
STUD ATTACHED TO MIDWALL	362S162-54mil, 50 ksi

ALL ENGINEERED FRAMING MEMBERS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS

EQUAL LEG

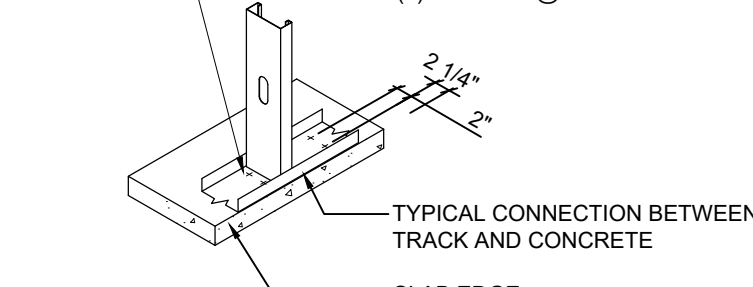
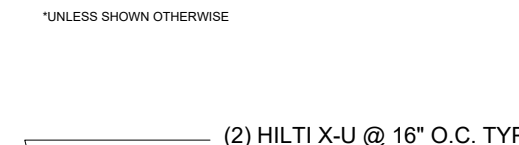


UNEQUAL LEG

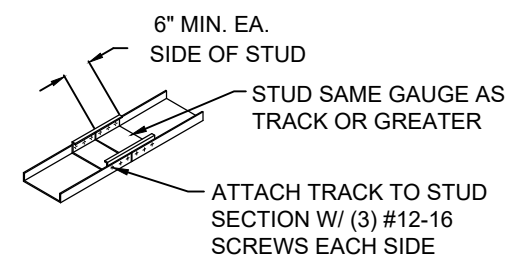


-EQUAL SPACING
-SYMMETRIC FASTENER PLACEMENT
-USE GUIDE HOLES WHEN AVAILABLE
-1.5 X D EDGE DISTANCE, 3 X D SPACING, D = SDS DIAMETER

TYPICAL FASTENER PLACEMENT - ANGLE

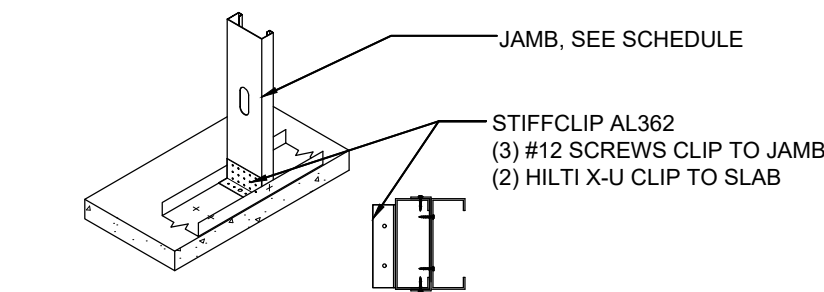


TRACK TO CONCRETE

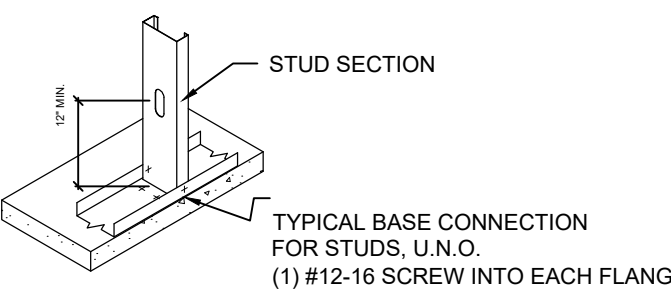


NOTE: SPLICE ALL EXTERIOR TRACK, UNO

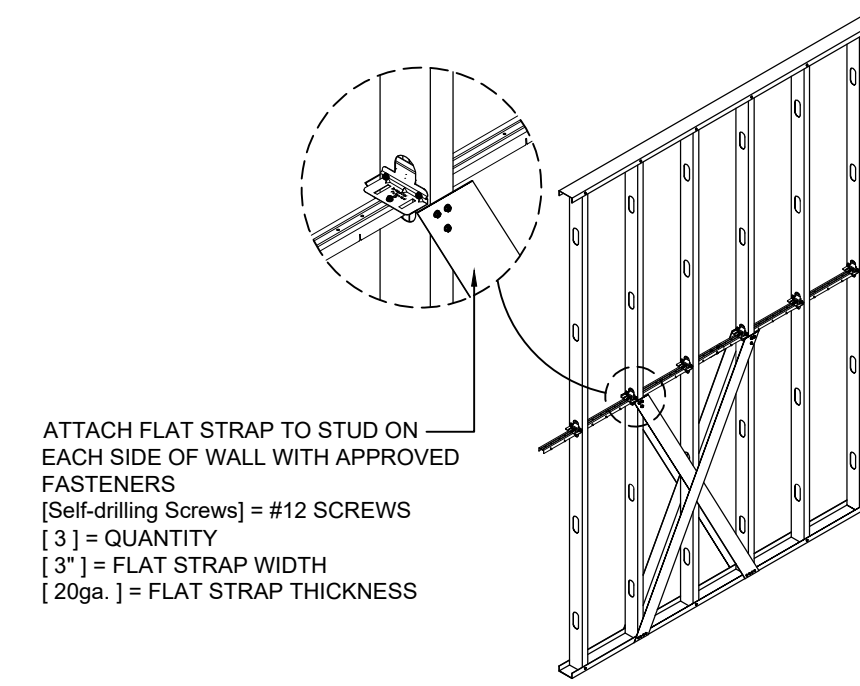
TRACK SPLICE



JAMB BASE CONNECTION

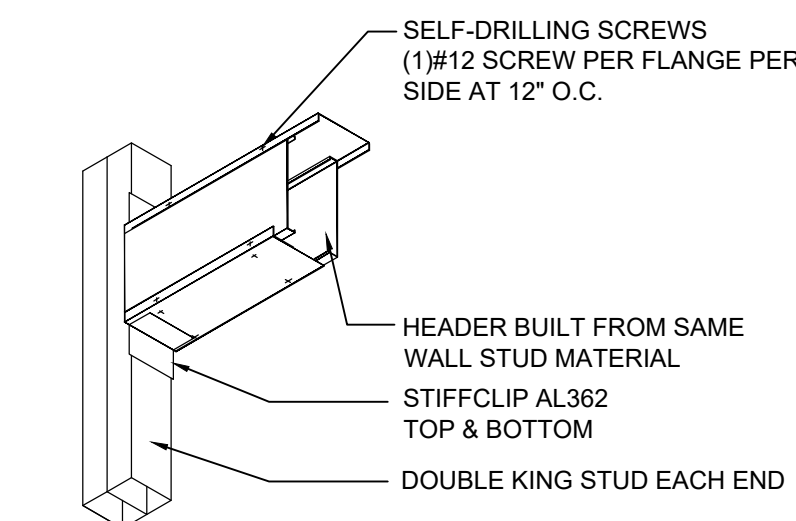


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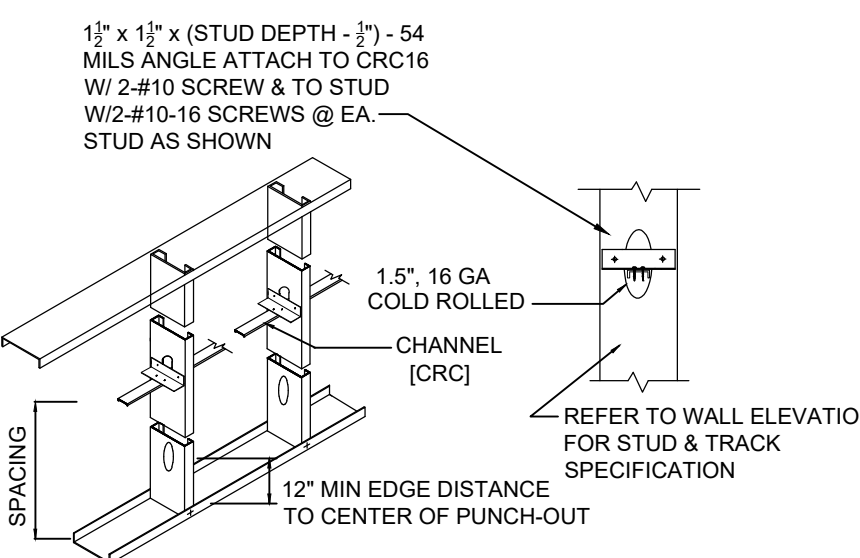


ANCHORAGE OF LOAD BEARING WALL BRIDGING

BB150 / BRIDGE CLIP-CROSS BRACING



TYPICAL BOX HEADER



ISOMETRIC VIEW

ELEVATION

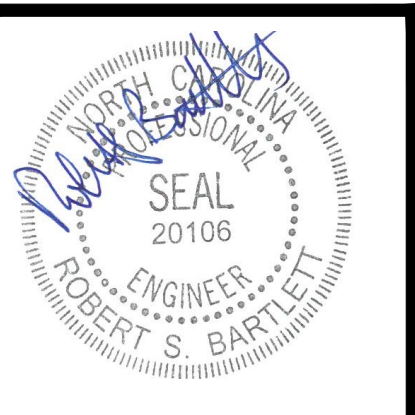
TYPICAL WALL BRIDGING

LIGHT GAUGE METAL FRAMING DETAILS

SCALE: N.T.S.

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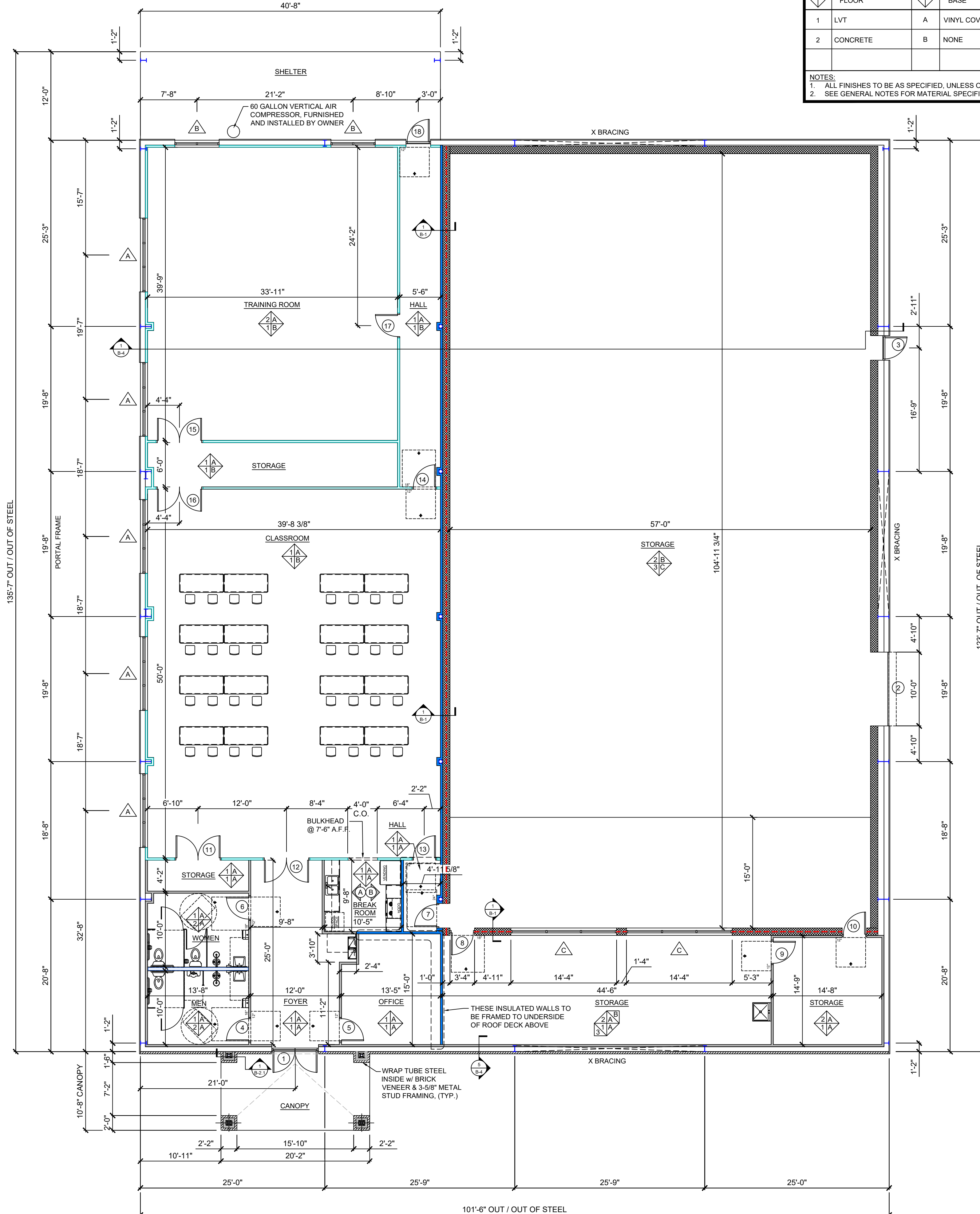
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Rev.	Date:	Description:

Wilson County Sheriff's Office
Training Facility
2764 Commerce Road Wilson, NC 27893

Drawn by: PADEN R.
Issue Date: 02.07.2025
Project Number: 24-102
Sheet: S-5



FLOOR PLAN

BUSINESS AREAS 5095 SQ. FT. + STORAGE AREAS 7,519 SQ. FT. + PORCH & SHELTER 692 SQ. FT. TOTAL SQ. FT. = 13,306

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

ROOM FINISH SCHEDULE			
FLOOR	BASE	WALLS	CEILING
1 LVT	A VINYL COVE BASE	1 5/8" GYPSUM BD. - PAINTED	A 2' X 2' ACOUSTICAL TILE @ 8'-0" A.F.F.
2 CONCRETE	B NONE	2 5/8" MOISTURE RESISTANT GYPSUM BD. - PAINTED	B 2' X 2' ACOUSTICAL TILE @ 9'-0" A.F.F.
		3 CMU BLOCK	C OPEN TO STRUCTURE

NOTES:
 1. ALL FINISHES TO BE AS SPECIFIED, UNLESS OTHERWISE NOTED.
 2. SEE GENERAL NOTES FOR MATERIAL SPECIFICS.

WALL LEGEND	
SYMBOL	DESCRIPTION
	BRICK VENEER
	12" CMU BLOCK WALL w/ GROUT FILLED CELLS TO 12'-8" A.F.F.
	2 HR. RATED, 12" CMU BLOCK WALL w/ GROUT FILLED CELLS TO ROOF DECKING
	METAL BUILDING WALL 8" GIRT DEPTH, 1-1/2" EXTERIOR WALL PANEL
	LIGHT GAUGE METAL STUDS @ 16" O.C. SEE SH. S-2 FOR STUD SIZES AND HEIGHTS
	LIGHT GAUGE METAL STUDS @ 16" O.C. SEE SH. S-2 FOR STUD SIZES AND HEIGHTS
	LIGHT GAUGE METAL STUDS @ 16" O.C., FRAMED TO UNDERSIDE OF ROOF DECK ABOVE, SEE SH. S-2 FOR STUD SIZES
	PLUMBING WALL LIGHT GAUGE METAL STUDS @ 16" O.C. SEE SH. S-2 FOR STUD SIZES AND HEIGHTS

GENERAL NOTES
 (GENERAL CONTRACTOR TO SUBMIT COLOR SAMPLES FOR APPROVAL)

EXTERIOR

PERFORATED METAL SOFFIT PANEL	MATRIX STYLE BY MCELROY OR EQUAL COLOR: SELECTED BY OWNER
HOLLOW METAL DOORS AND FRAMES	PAINT "PPG PAINTS" SEMI-GLOSS COLOR: SELECTED BY OWNER
ROOF PANELS	24 GAUGE, STANDING SEAM COLOR: SELECTED BY OWNER
ENTRY ROOF PANELS	12" LOC SEAM ROOF PANEL COLOR: SELECTED BY OWNER
WALL PANELS	26 GA. AMERICAN BUILDING COMPANY REVERSE R PANEL OR EQUAL COLOR: SELECTED BY OWNER
GUTTER AND DOWNSPOUTS	24 GAUGE GUTTER & DOWNSPOUTS AS SUPPLIED BY BUILDING MANUFACTURER COLOR: SELECTED BY OWNER
TRIM	SUPPLIED BY BUILDING MANUFACTURER COLOR: SELECTED BY OWNER
STOREFRONT	"KAWNEER" 451TCG OR EQUAL COLOR: SELECTED BY OWNER
OVERHEAD DOOR	RAYNOR OR EQUAL COLOR: SELECTED BY OWNER
BRICK VENEER	MANUF: TRIANGLE BRICK OR EQUAL SIZE: MODULAR COLOR: SELECTED BY OWNER MORTAR: SELECTED BY OWNER

INTERIOR

FLOORS	CONCRETE: MACHINE FINISH
CEILING	LVT: PHILADELPHIA #00221 OR EQUAL COLOR: SELECTED BY OWNER ARMSTRONG CEILING SOLUTIONS R3407-TYPE XLD, 2' X 2' SQUARE ACOUSTICAL LAY-IN TILE & GRID OR EQUAL COLOR: SELECTED BY OWNER
HOLLOW METAL DOORS AND FRAMES	PAINT "PPG PAINTS" SEMI-GLOSS COLOR: SELECTED BY OWNER
BASE	ROPPE #194 OR EQUAL COLOR: SELECTED BY OWNER
WALLS	GYPSUM BOARD (1) COAT PPG PAINTS PRIMER OR EQUAL (2) COATS PPG PAINTS OR EQUAL COLOR: SELECTED BY OWNER

ACCESSORIES

INTERIOR WOOD DOORS	MASONITE ARCHITECTURAL FACTORY-FINISHED STAIN ASPIRO SERIES, NATURAL BIRCH (ROTARY) COLOR: SELECTED BY OWNER
CABINETS	WOOD EXTERIOR, PAINTED COLOR: SELECTED BY OWNER
SOLID SURFACE COUNTERTOP	MELAMINE INTERIOR SURFACES COLOR: SELECTED BY OWNER WILSONART OR EQUAL COLOR: SELECTED BY OWNER

TOILET ACCESSORIES

PAPER HOLDER	BY OWNER, INSTALLED BY GC
TOWEL DISPENSER	BY OWNER, INSTALLED BY GC
SOAP DISPENSER	BY OWNER, INSTALLED BY GC
GRAB BARS	AMERICAN SPECIALTIES #3801P, 18", 36", 42"
RESTROOM SIGNAGE	WOMEN'S AND MEN'S WHEELCHAIR ACCESSIBLE BATHROOM SIGN-ADA COMPLIANT TACTILE BRAILLE SIGN 6" X 8" COLOR: WHITE ON BLACK BACKGROUND

DOOR HARDWARE SCHEDULE
 ALL HARDWARE TO HAVE "BRUSHED NICKLE" FINISH

LOCKSET	"YALE" 4600LN, GRADE 2 LOCKSET OR EQUAL TO "SCHLAGE" 6-PIN "C" CYLINDER
CLOSERS	GRADE 1 w/ FULL COVER, 2500 OR EQUAL
EXTERIOR AND INTERIOR DOOR HINGES	BALL BEARING HINGES WITH 32D FINISH OR EQUAL
DOOR STOPS	"MCKINNEY" WROUGHT ALL STOPS No. WSO2 WITH STAINLESS STEEL FINISH OR EQUAL
KICK-DOWN DOOR STOP	"ROCKWOOD", #460
PANIC EXIT DEVICE	"YALE" 2150 W/ SQUARE BOLT RIM LATCH OR EQUAL

APPLIANCES
 ALL APPLIANCES TO BE SUPPLIED AND INSTALLED BY OWNER

NOTES

- EACH DOOR TO HAVE DOOR STOPS, ALL INTERIOR DOORS w/ CLOSER TO HAVE KICK DOWN DOOR STOP, SEE HARDWARE SCHEDULE
- MANUFACTURER SHALL SUPPLY MASTER KEY(S) TO FIT ALL DOORS VERIFY KEYING SCHEMES W/ OWNER
- G.C. TO FURNISH AND INSTALL ALL ADA RESTROOM SIGNAGE, ALL OTHER INTERIOR SIGNAGE TO BE FURNISHED BY THE OWNER AND INSTALLED BY THE GENERAL CONTRACTOR AS PER ADA REQUIREMENTS

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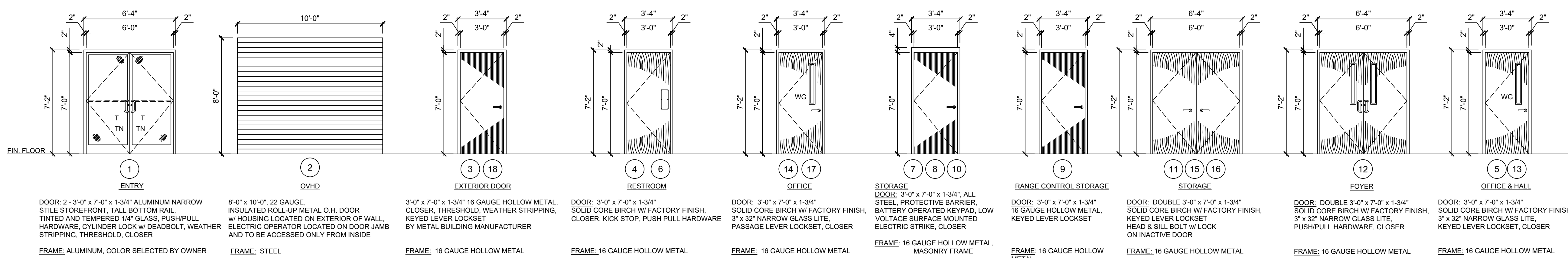
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Rev: _____ Date: _____ Description: _____

Title Sheet: FLOOR PLAN / SCHEDULES / NOTES

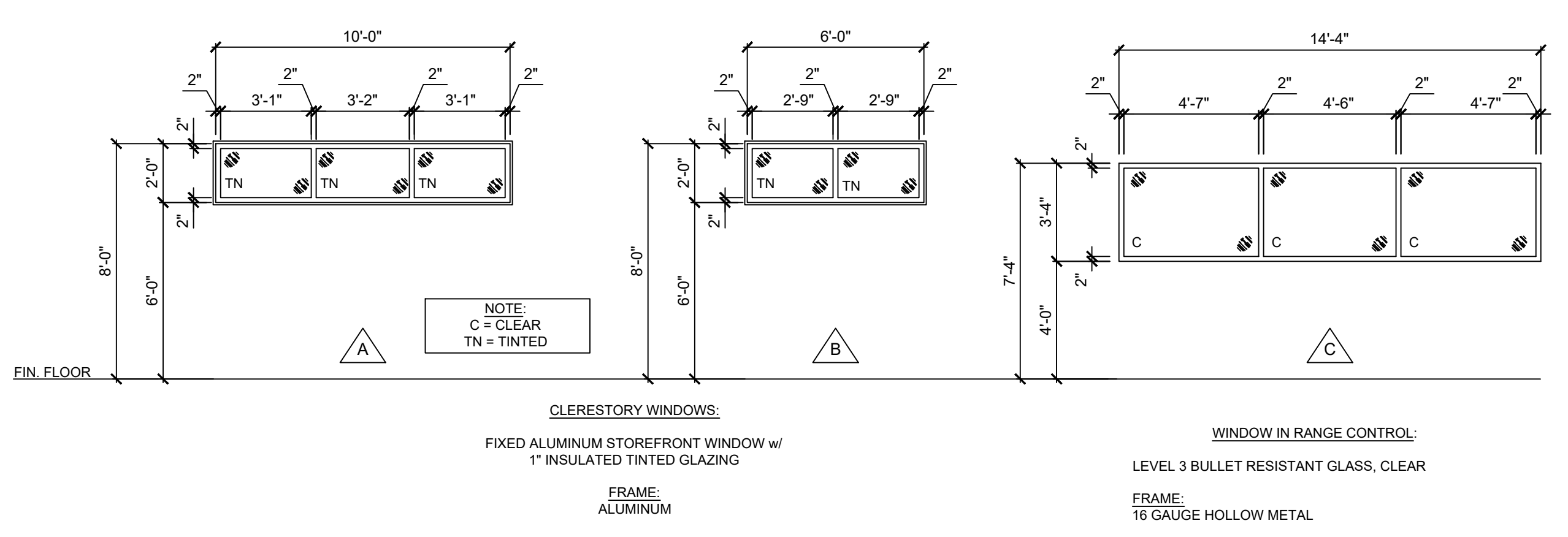
Project: Wilson County Sheriff's Office Training Facility
 2764 Commerce Road Wilson, NC 27893

Drawn by: PADEN R.
 Issue Date: 02.07.2025
 Project Number: 24-102
 Sheet: B-1



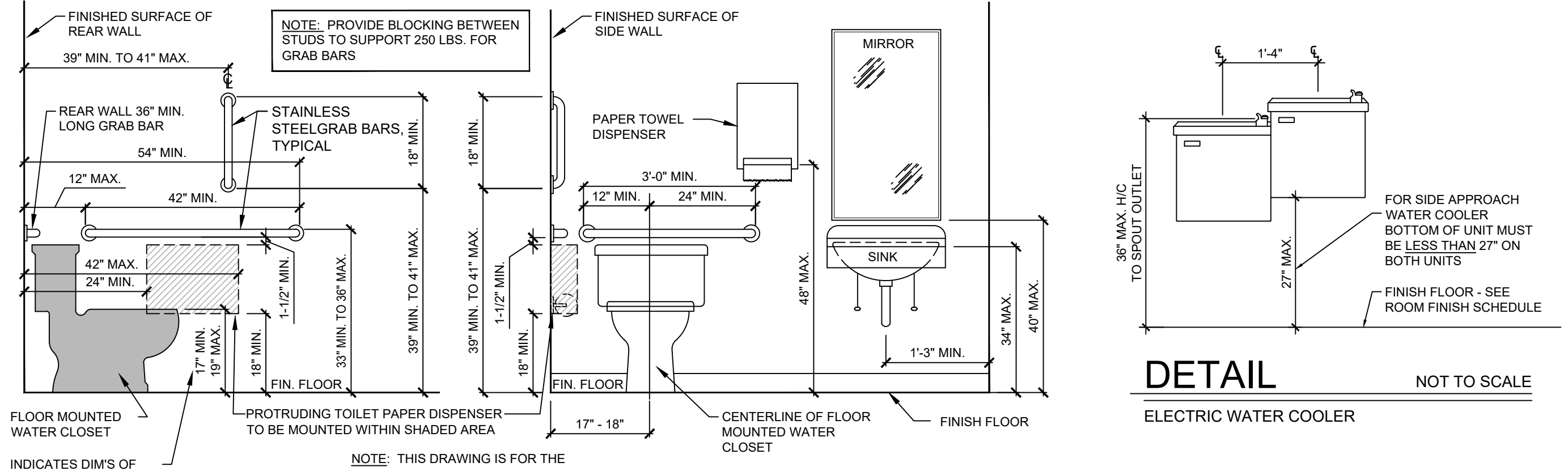
DOOR TYPES

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



WINDOW TYPES

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



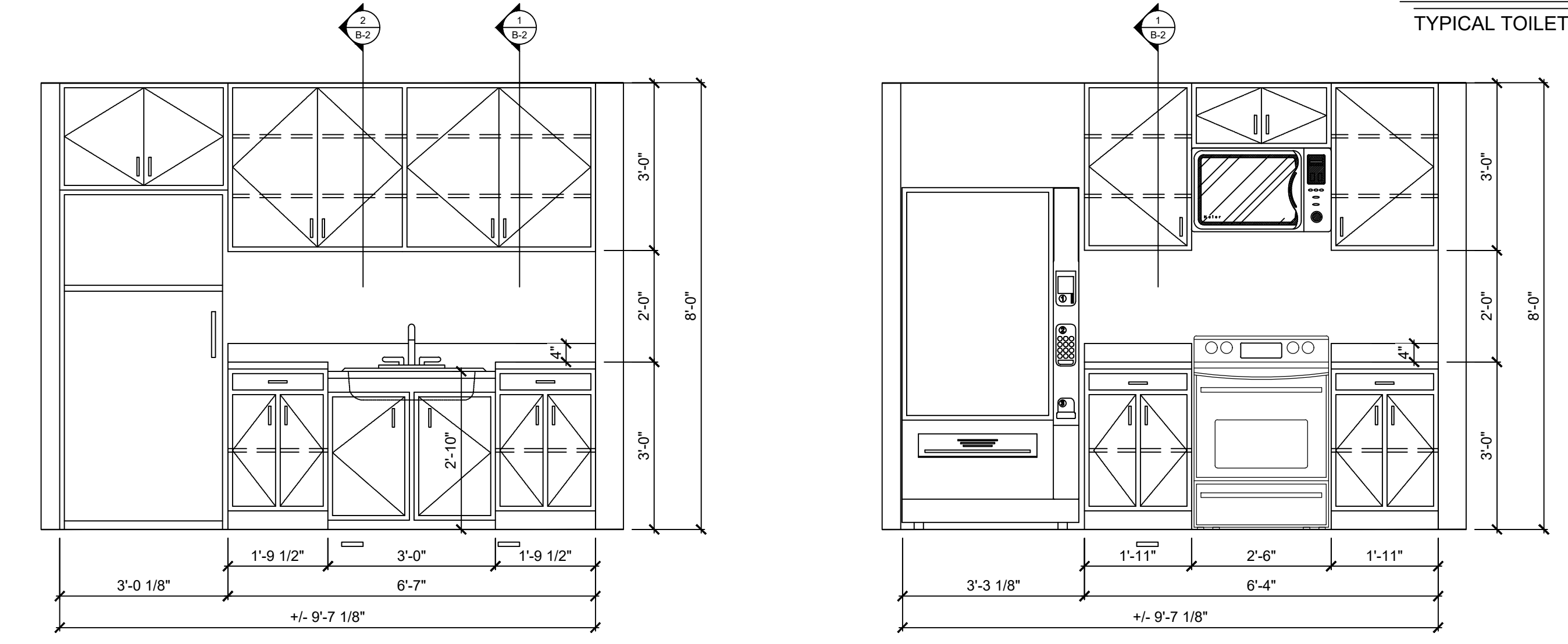
ENLARGED RESTROOM ELEVATION

NOT TO SCALE

TYPICAL TOILET ACCESSIBILITY REQUIREMENTS

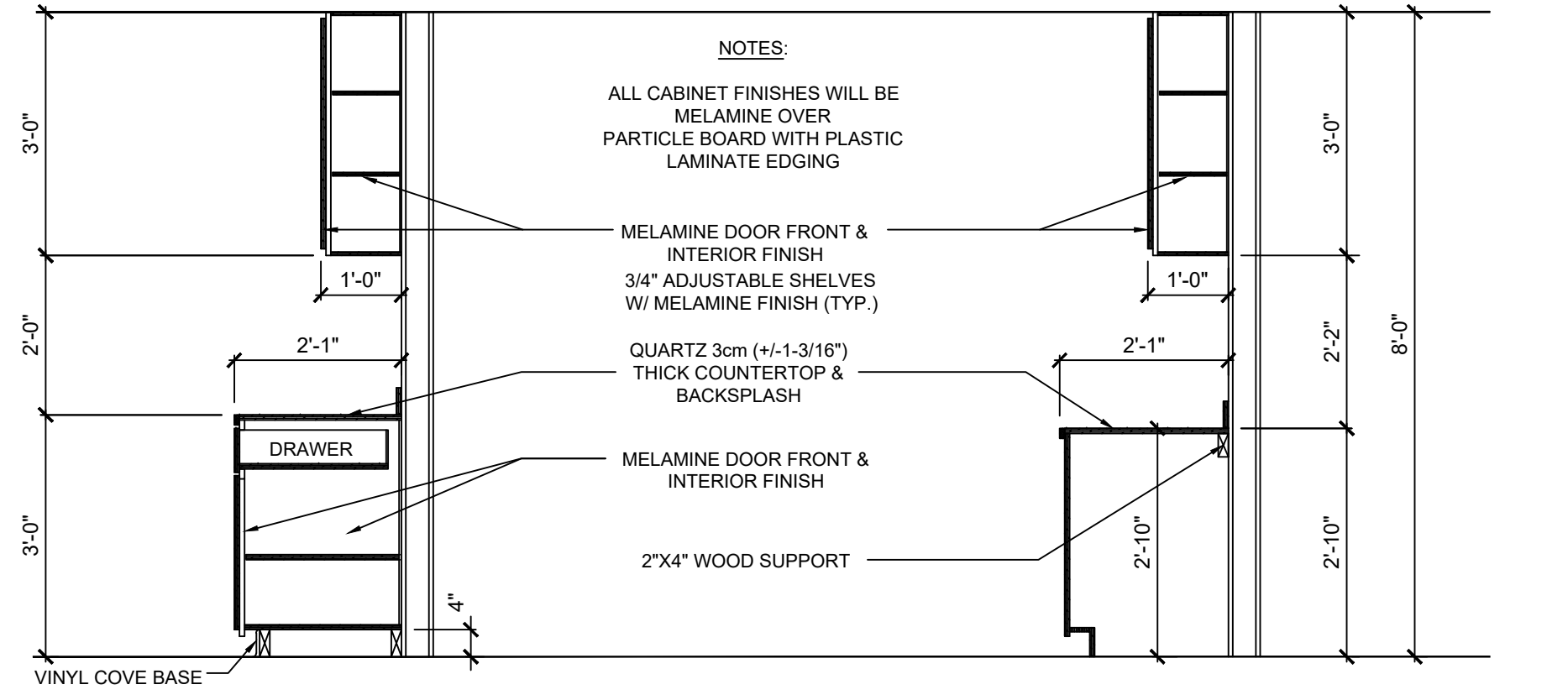
DETAIL

NOT TO SCALE



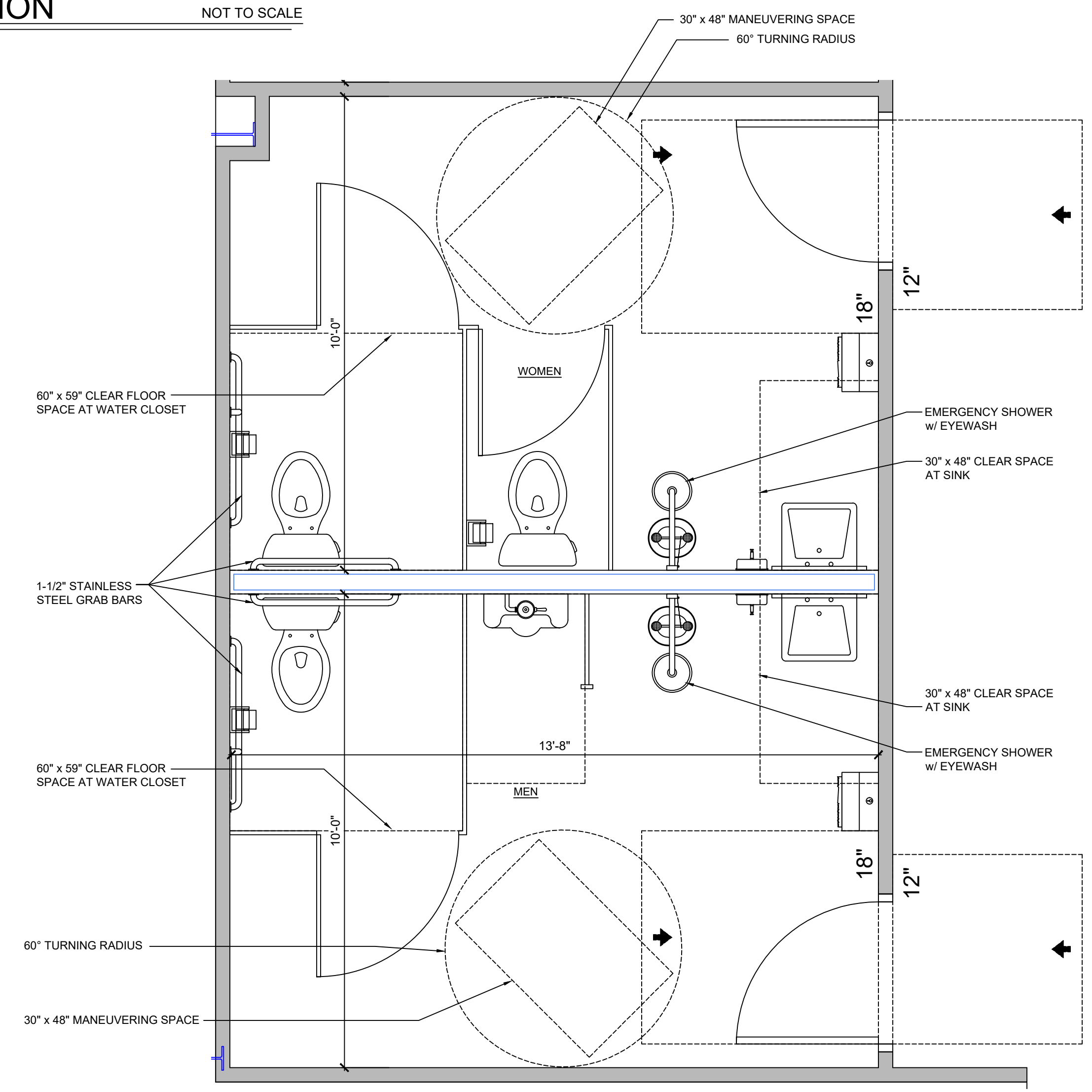
INTERIOR ELEVATION

INTERIOR ELEVATION



SECTION B-2

SECTION B-2



ENLARGED TOILET PLAN

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

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Professional Engineer
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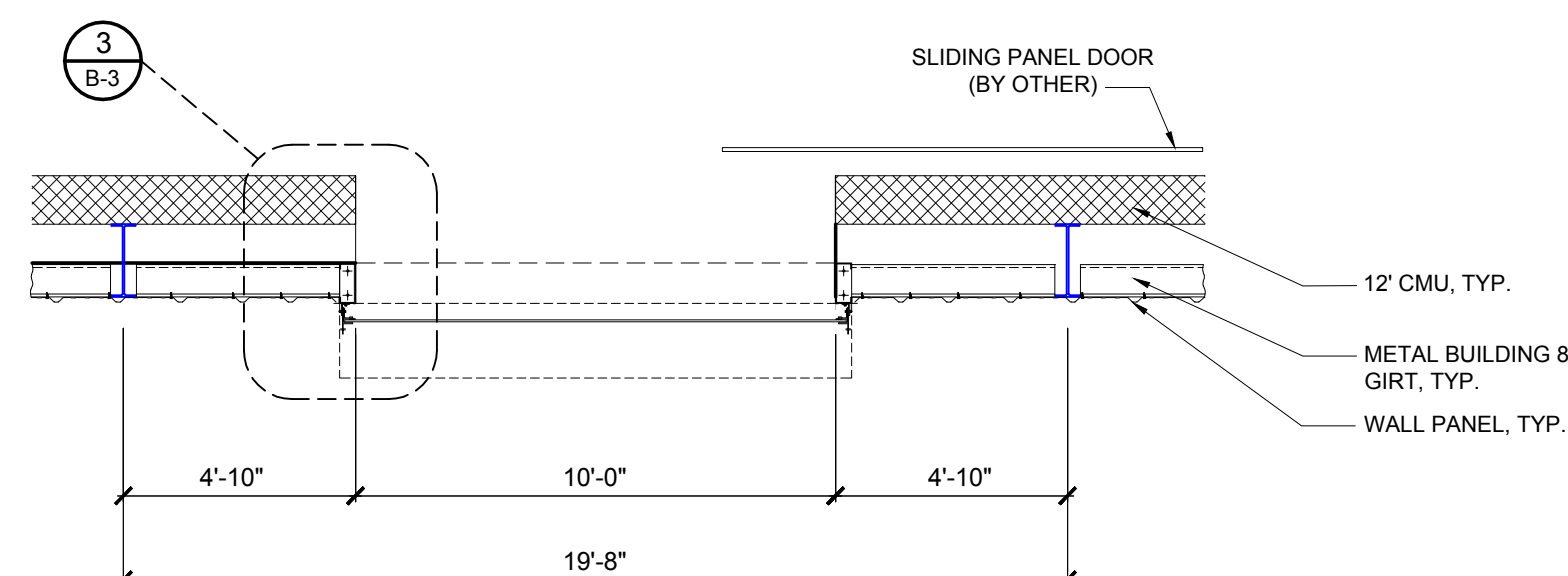
Wilson County Sheriff's Office
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GENERAL NOTES

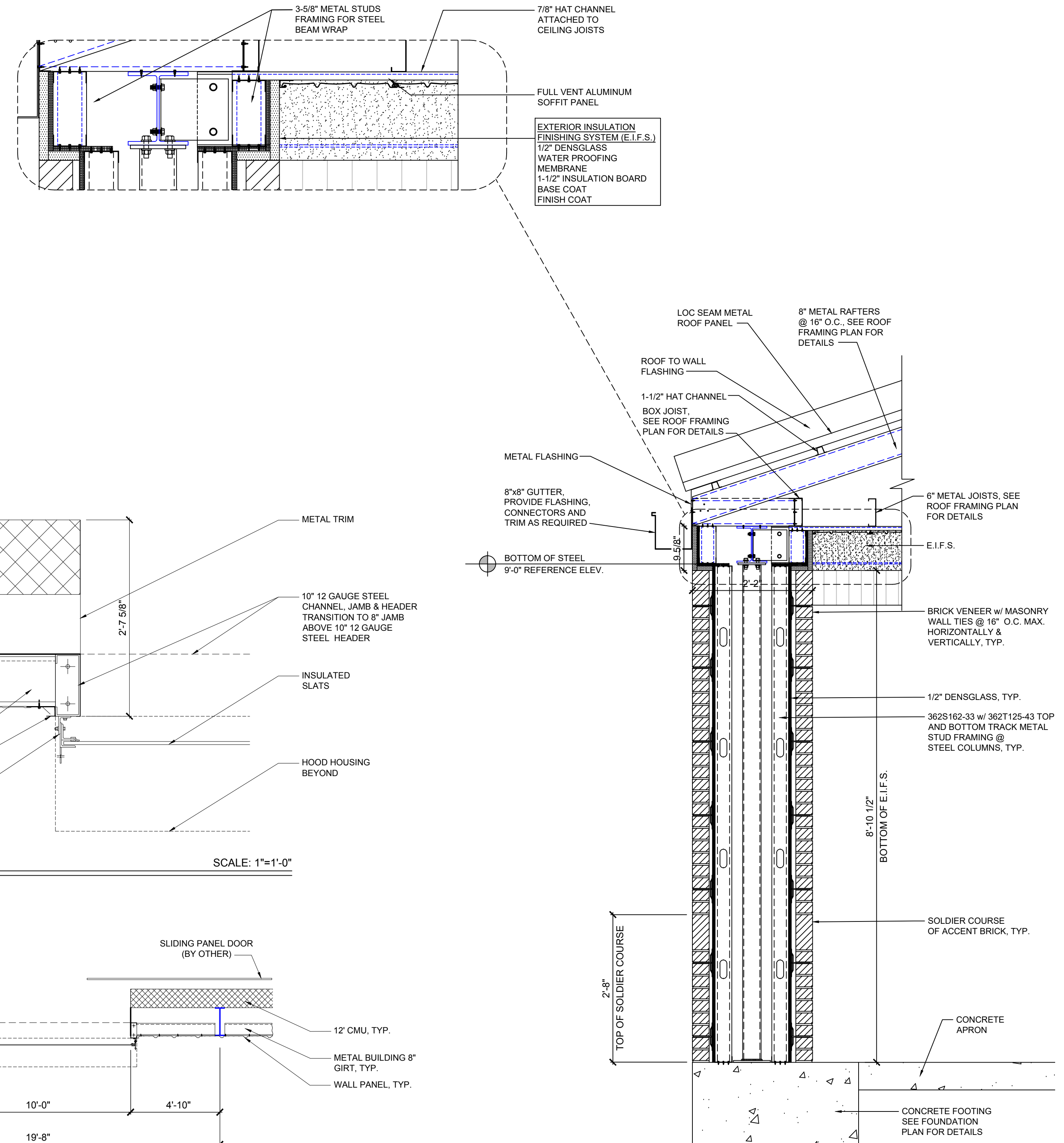
1. THESE PLANS ARE INTENDED TO LIMIT, DEFINE, AND EXPLAIN SPECIFIC WORK. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR THE METHODS AND MEANS OF CONSTRUCTION, PLUMBING, MECHANICAL AND ELECTRICAL. SUBCONTRACTORS ARE REQUIRED TO VISIT THE SITE BEFORE BIDDING TO FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND PROPOSED IMPROVEMENTS. NO CONTRACT PRICE CHANGES WILL BE CONSIDERED FOR WORK THAT COULD HAVE BEEN IDENTIFIED THROUGH A THOROUGH SITE INSPECTION.
2. ADHERE TO ALL APPLICABLE STATE, LOCAL, AND NATIONAL CODES AND ORDINANCES, INCLUDING BUT NOT LIMITED TO THE NORTH CAROLINA STATE BUILDING CODE, THE AMERICANS WITH DISABILITIES ACT (ADA), NATIONAL ELECTRIC CODES, ASTM SPECIFICATIONS, AND OSHA SAFETY REGULATIONS.
3. ABIDE BY ALL LAWS, ORDINANCES, CODES, RULES, AND REGULATIONS RELATED TO THE ENVIRONMENTAL PROTECTION AGENCY (EPA). THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF ALL NECESSARY INSPECTIONS AND PERMITS.
4. THE GENERAL CONTRACTOR MUST REVIEW AND APPROVE SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND SIMILAR SUBMITTALS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS AND SUBMIT THEM TO THE ENGINEER PROMPTLY, IN SUCH A WAY THAT DOES NOT DELAY THE WORK. SUBMITTALS NOT REVIEWED AND APPROVED BY THE GENERAL CONTRACTOR MAY BE RETURNED WITHOUT ACTION.
5. THE GENERAL CONTRACTOR MUST REVIEW AND APPROVE SUBMITTALS, ENSURING THAT SELECTED AND COORDINATED PRODUCTS MEET THE PROJECT'S REQUIREMENTS. BY APPROVING AND SUBMITTING THESE, THE GENERAL CONTRACTOR CONFIRMS THAT THE MATERIALS, MEASUREMENTS, AND FIELD CONSTRUCTION CRITERIA HAVE BEEN VERIFIED AND COORDINATED WITH THE WORK AND CONTRACT DOCUMENTS.
6. THE CONTRACTOR MUST COMPARE ALL DRAWINGS AND VERIFY DIMENSIONS BEFORE BEGINNING WORK AND IS RESPONSIBLE FOR ERRORS THAT COULD HAVE BEEN AVOIDED. THE GENERAL CONTRACTOR MUST REVIEW ALL DRAWINGS UPON RECEIPT AND PROMPTLY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
7. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REVIEW ALL PLAN SHEETS PRIOR TO BIDDING. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THE SUBCONTRACTORS REVIEW COMPLETE SETS OF DRAWINGS.
8. THE GENERAL CONTRACTOR MUST REVIEW AND COORDINATE ALL PORTIONS OF THE WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS.
9. PERFORM ALL WORK IN FULL COMPLIANCE WITH THE RELEVANT LOCAL, STATE, AND FEDERAL CODES AND ORDINANCES. IN CASE OF ANY CONFLICT BETWEEN THESE PLANS AND THE APPLICABLE CODES, THE PREVAILING CODE SHALL TAKE PRECEDENCE.
10. PROVIDE AND COVER ALL COSTS FOR LABOR, TRANSPORTATION, MATERIALS, TOOLS, EQUIPMENT, LIGHTING, POWER, HEATING, SANITARY FACILITIES, WATER, SCAFFOLDING, AND ANY OTHER NECESSARY ITEMS REQUIRED TO COMPLETE THE CONTRACTED WORK.
11. REVIEW ALL DRAWINGS TO COORDINATE WITH BUILDING COMPONENTS. NOTES APPEAR ON VARIOUS DRAWINGS FOR DIFFERENT TRADES, SYSTEMS, AND MATERIALS. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
12. VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE STARTING THE WORK. NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES FOUND AND REQUEST CLARIFICATION. IF THE GENERAL CONTRACTOR NOTICES ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND APPLICABLE LAWS, CODES, OR REGULATIONS, THEY MUST PROMPTLY NOTIFY THE ENGINEER FOR GUIDANCE BEFORE PROCEEDING.
13. IDENTIFY ALL EXISTING UTILITIES. THE GENERAL CONTRACTOR MUST NOT INTERFERE WITH ADJACENT UTILITIES WITHOUT PRIOR NOTICE AND PERMISSION FROM THOSE AFFECTED.
14. THE ENGINEER IS THE SOLE INTERPRETER OF THE CONTRACT DOCUMENTS, INCLUDING ANY APPARENT CONFLICTS OR OMISSIONS. THE GENERAL CONTRACTOR MUST REPORT CONFLICTS TO THE ENGINEER BEFORE BIDDING AND CONSTRUCTION; OTHERWISE, IT IS ASSUMED THE GENERAL CONTRACTOR FULLY UNDERSTANDS AND AGREES TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
15. BEFORE BEGINNING WORK, CONTACT ALL APPLICABLE UTILITY LOCATING SERVICES TO CONFIRM THE LOCATION OF UTILITIES.
16. ENSURE ALL NECESSARY SAFETY MEASURES ARE IN PLACE TO PROTECT ALL WORKERS ON THE PROJECT, INCLUDING COMPLIANCE WITH THE A.G.C. ACCIDENT PREVENTION MANUAL, STATE LAWS, AND NORTH CAROLINA STATE BUILDING CODE REQUIREMENTS.
17. OMISSIONS IN THE DRAWINGS OF WORK TYPICALLY PERFORMED SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR SUCH WORK. ALL WORK MUST BE PERFORMED AS FULLY AND CORRECTLY AS OUTLINED IN THE DRAWINGS.
18. REFER TO SHOP DRAWINGS AND ENGINEERING SPECIFICATIONS FROM OTHERS FOR ADDITIONAL COORDINATION REQUIREMENTS.
19. THE GENERAL CONTRACTOR SHALL PROVIDE TRANSITION STRIPS WHERE DIFFERENT FLOOR FINISHES MEET AND PROVIDE BLOCKING FOR ALL ITEMS TO BE ANCHORED TO WALLS, FLOORS, AND CEILINGS. THE CONTRACTOR MUST CONCEAL ALL PIPING AND CONDUIT WITHIN WALLS, FLOORS, OR ABOVE CEILINGS, UNLESS OTHERWISE NOTED.
20. ALL SECTIONS, DETAILS, MATERIALS, ETC., SHOWN OR NOTED ON ANY PLAN, SECTION, DETAIL, OR SCHEDULE APPLY TO ALL SIMILAR LOCATIONS UNLESS NOTED OTHERWISE.
21. COORDINATE WORK WITH OTHER CONTRACTORS, TO INCLUDE ANY CONTRACTED BY THE OWNER, TO PROVIDE SYSTEMS THAT FUNCTION EFFECTIVELY AND MEET THE OWNER'S DESIRED APPEARANCE.
22. PROVIDE STIFFENERS, BRACING, BACKING PLATES, AND BLOCKING NECESSARY FOR SECURE INSTALLATION OF DOORS, DOOR HARDWARE, WALL-MOUNTED DOORSTOPS, HANDRAILS, MISCELLANEOUS EQUIPMENT, AND SUSPENDED MECHANICAL AND ELECTRICAL EQUIPMENT.
23. PROVIDE ACCESS PANELS IN GYPSUM BOARD CEILINGS, IF NOT SHOWN, TO ALLOW FOR MAINTENANCE OR OPERATION OF MECHANICAL OR ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO CONSTANT AIR, OR VARIABLE AIR VOLUME BOXES, REHEAT COILS, VALVES, EXHAUST FANS, BALANCING DAMPERS, FIRE DAMPERS, SMOKE DAMPERS, FIRE/SMOKE DETECTORS, CLEAN OUTS, OR IF NOT SHOWN, AS REQUIRED, TO ACCESS ALL MECHANICAL EQUIPMENT AND ELECTRICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO PANELS, CUT-OFFS AND JUNCTION BOXES. SUBMIT LAYOUTS OF REQUIRED ACCESS PANELS FOR REVIEW BEFORE INSTALLATION. MINIMIZE THE NEED FOR ACCESS PANELS BY PROPERLY LOCATING EQUIPMENT AND VALVES.
24. THE GENERAL CONTRACTOR MUST STENCIL EACH FIRE-RATED WALL. STENCIL SHOULD BE PAINTED LETTERING INDICATING THE HOURLY RATING AND INSTRUCTIONS THAT ALL PENETRATIONS MUST BE PROTECTED. THIS IS TO BE PAINTED ABOVE THE CEILING FOR NEW CONSTRUCTION.
25. THE GENERAL CONTRACTOR MUST PROVIDE FIRE EXTINGUISHERS, CABINETS, AND KNOX BOX AS REQUIRED AND/OR SHOWN ON THE PLAN. GENERAL CONTRACTORS TO VERIFY WITH THE LOCAL FIRE MARSHAL.
26. SEAL OPENINGS IN RATED WALLS, FLOORS, CEILINGS, AND ROOF ASSEMBLIES WITH PENETRATION SEALANT SYSTEMS THAT MEET OR EXCEED REQUIRED FIRE-RESISTANCE RATINGS. FILL EXISTING HOLES IN ELEVATED SLABS WHERE PIPING OR OTHER ELEMENTS HAVE BEEN REMOVED. SEAL HOLES LESS THAN 2" IN DIAMETER WITH FIRESTOPPING; LARGER HOLES REQUIRE CONCRETE PATCHING OVER STEEL DECKING.
27. FOR FIRE-RATED CONSTRUCTION, USE CABINETS, PANELS, AND BOXES DESIGNED FOR INSTALLATION IN RATED ASSEMBLIES, MAINTAINING THE FIRE RATING AROUND RECESSED ITEMS IN RATED WALL, FLOOR, AND CEILING ASSEMBLIES.
28. THE GENERAL CONTRACTOR MUST PROVIDE THE OWNER WITH A CLEAN SPACE, REMOVING ALL CONSTRUCTION DEBRIS AND LEAVE THE AREA BROOM-CLEAN BEFORE TURNOVER TO THE OWNER.
29. THE GENERAL CONTRACTOR MUST ALWAYS HAVE A SUPERVISOR ONSITE DURING ANY/ALL CONSTRUCTION WORK.
30. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE FULL COST AND MAINTENANCE OF TEMPORARY POWER AND UTILITIES, REFUSE REMOVAL, LIABILITY, AND WORKER'S COMPENSATION INSURANCE.
31. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND BECOMING FAMILIAR WITH ALL CONSTRUCTION DOCUMENTS, INCLUDING BUT NOT LIMITED TO DRAWINGS, SPECIFICATIONS, GENERAL CONDITIONS, PROJECT MANUAL, AND ANY ADDENDA.
32. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ITEMS THAT ARE TO BE PURCHASED BY THE OWNER AND INSTALLED BY THE GENERAL CONTRACTOR.
33. THE GENERAL CONTRACTOR UNDERSTANDS THAT MINOR ADJUSTMENTS TO CONSTRUCTION MAY BE REQUIRED TO ACCOMMODATE INSTALLATION, AS THE ACTUAL DIMENSIONS OF PURCHASED ITEMS MAY DIFFER FROM THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR MUST COORDINATE THE INSTALLATION OF MANUFACTURED ITEMS, PRODUCTS, AND SYSTEMS TO FIT WITHIN THE SPACE SHOWN. NOTIFY THE ENGINEER OF ANY CHANGES.
34. THE GENERAL CONTRACTOR MUST PROVIDE NECESSARY PROTECTIONS REQUIRED BY LAW OR ORDINANCES AND AS MANDATED BY THE OWNER OR ENGINEER. THE GENERAL CONTRACTOR IS FULLY RESPONSIBLE FOR THE ENTIRE SITE AND BUILDING CONSTRUCTION AND IS LIABLE FOR ANY DAMAGE TO THE OWNER'S OR OTHERS' PROPERTY AND MUST REPAIR SUCH DAMAGES. THE GENERAL CONTRACTOR IS ALSO RESPONSIBLE FOR PAYING FOR ANY CLAIMS AGAINST THE OWNER RESULTING FROM SUCH DAMAGE.
35. PAY SPECIAL ATTENTION TO THE EXPANSION AND CONTRACTION OF MATERIALS AND JOINTS TO PREVENT FAILURE. NOTIFY THE OWNER OF ANY ADDITIONAL CONTROL JOINTS RECOMMENDED BY TRADE ORGANIZATIONS OR MANUFACTURER'S LITERATURE.
36. SUBMIT A QUALITY ASSURANCE PLAN TO THE OWNER FOR APPROVAL.
37. DO NOT SCALE THE DRAWINGS. IF DISCREPANCY OR QUESTIONS, CONTACT THE ENGINEER FOR CLARIFICATIONS.
38. COORDINATE ALL WORK WITH SUBCONTRACTORS. VERIFY CEILING HEIGHTS AND DUCT LAYOUTS AND PREPLAN CAREFULLY. COORDINATE INSTALLATION OF DIFFUSERS, SPEAKERS, SPRINKLER HEADS, AND ACCESS PANELS WITH THE LIGHTING LAYOUT AND REPORT ANY CONFLICTS TO THE ENGINEER BEFORE INSTALLATION.
39. EXECUTE ALL WORK IN A PROFESSIONAL MANNER, ENSURING THE JOB IS COMPLETE AND EVERYTHING IS PERFORMED AS SHOWN OR REASONABLY INFERRED FROM THE PLANS. ALL WORK MUST BE FINISHED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
40. KEEP THE BUILDING AND SURROUNDING AREA REASONABLY FREE FROM DEBRIS. AT A MINIMUM, REMOVE DEBRIS FROM THE SITE WEEKLY OR AS DIRECTED BY THE PROJECT MANAGER AND/OR OWNER.
41. INSTALL, MAINTAIN, AND REMOVE ALL EQUIPMENT AND MATERIALS USED FOR CONSTRUCTION BEFORE SUBSTANTIAL COMPLETION OF THE PROJECT. ANY ITEMS LEFT AFTER PROJECT COMPLETION WILL BECOME THE PROPERTY OF THE OWNER, WHO MAY DISPOSE OF THEM WITHOUT BEING LIABLE FOR ANY CLAIMS FROM THE CONTRACTOR.
42. BEFORE THE FINAL INSPECTION AND ACCEPTANCE OF THE BUILDING, EACH SUBCONTRACTOR MUST CLEAN THEIR WORK AREA, INCLUDING GLASS, HARDWARE, FIXTURES, MASONRY, TILE, AND MARBLE (WITHOUT USING ACID), AND CLEAN AND WAX ALL FLOORS AS SPECIFIED. THE SPACE MUST BE FULLY PREPARED FOR THE OWNER'S USE.

3 **DETAIL**
B-2.1 10" JAMB DETAIL SCALE: 1"=1'-0"



2 **DETAIL**
B-2.1 ROLLING SERVICE DOOR #2 SCALE: 1/4"=1'-0"

1 **SECTION**
B-2.1 BRICK COLUMN DETAIL SCALE: 3/4"=1'-0"



Wilson County Sheriff's Office
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Owner:

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Professional Engineer
 Robert Bartlett
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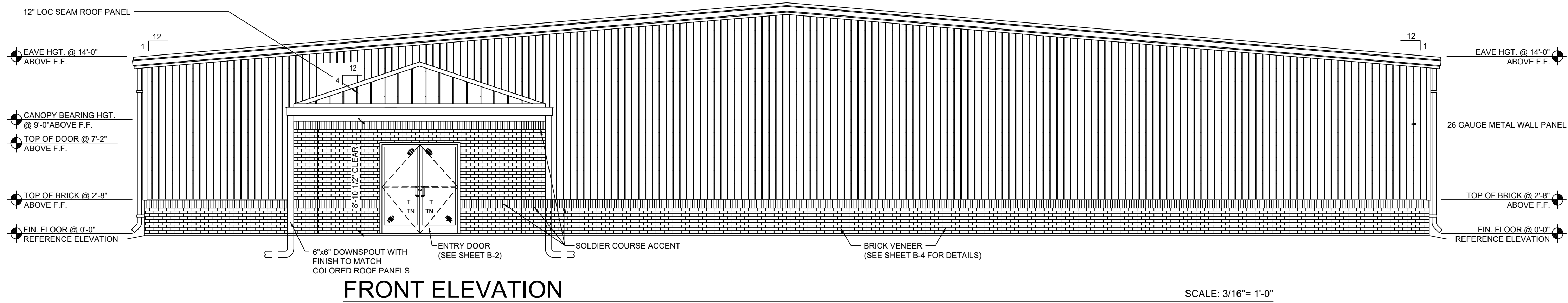
PE Seal

Rev.	Date:	Description:

Title Sheet:
 BRICK COLUMN SECTION / WALL DETAIL

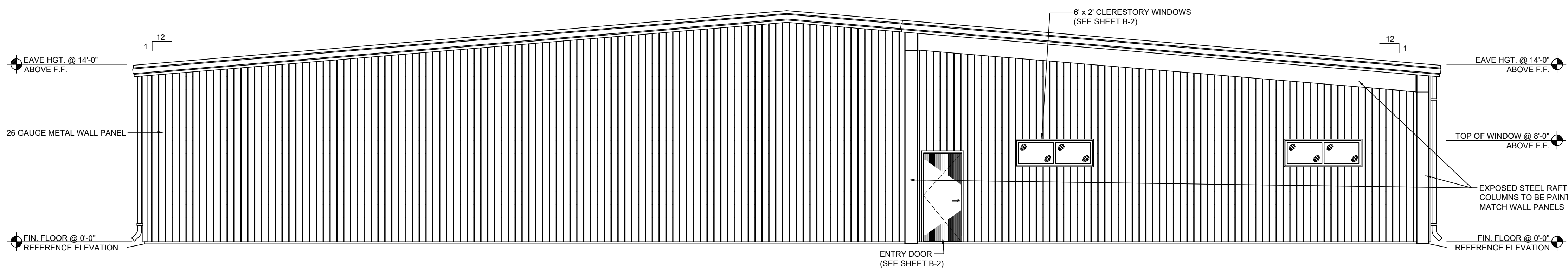
Project:
 Wilson County Sheriff's Office
 Training Facility
 2764 Commerce Road
 Wilson, NC 27893

Drawn by: PADEN R.
 Issue Date: 02.07.2025
 Project Number: 24-102
 Sheet: **B-2.1**



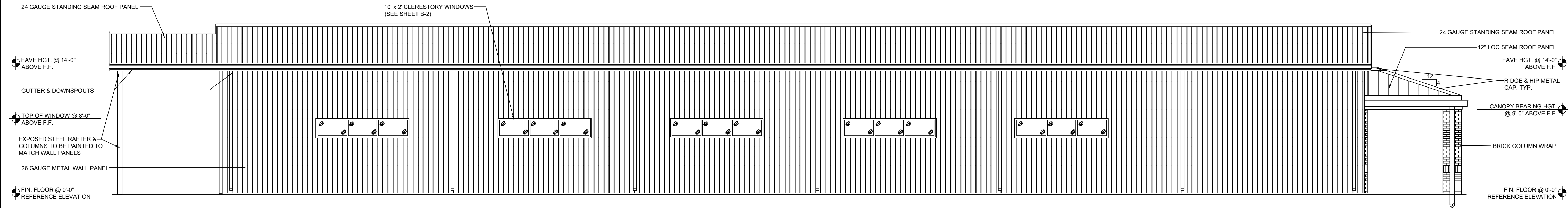
FRONT ELEVATION

SCALE: 3/16"= 1'-0"



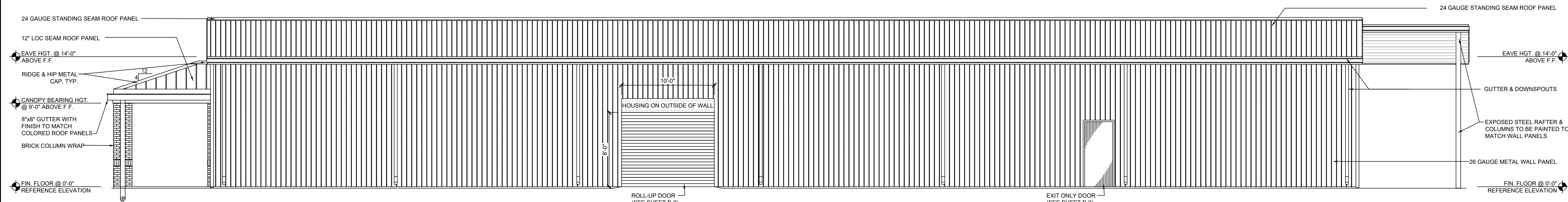
REAR ELEVATION

SCALE: 3/16"= 1'-0"



LEFT SIDE ELEVATION

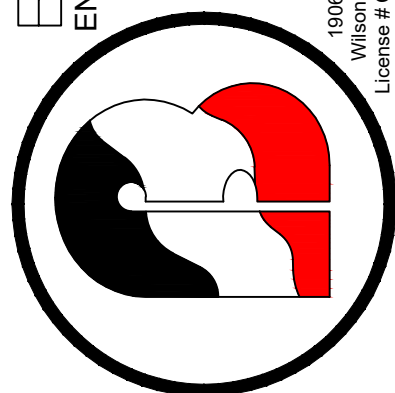
SCALE: 3/16"= 1'-0"



RIGHT SIDE ELEVATION

SCALE: 3/16"= 1'-0"

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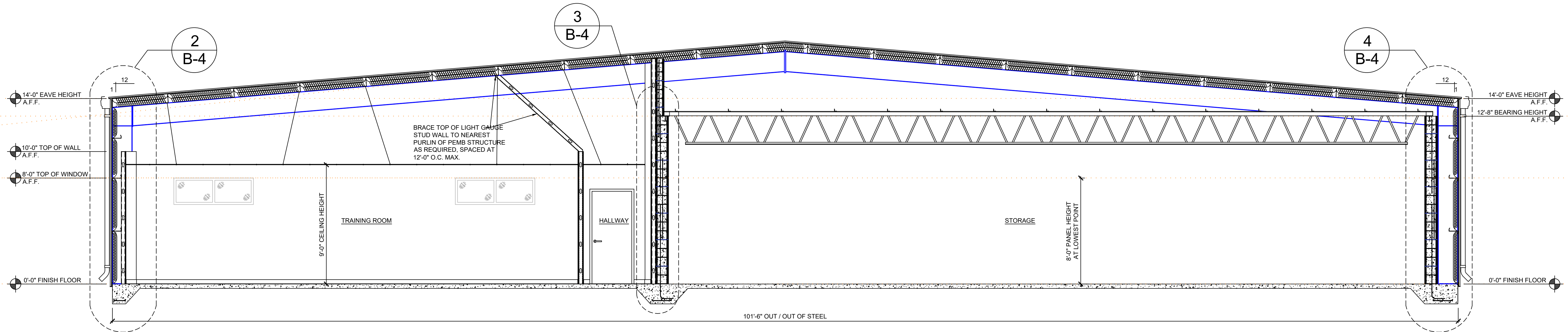
PE Seal

Rev.	Date	Description

Title Sheet: **EXTERIOR ELEVATIONS**

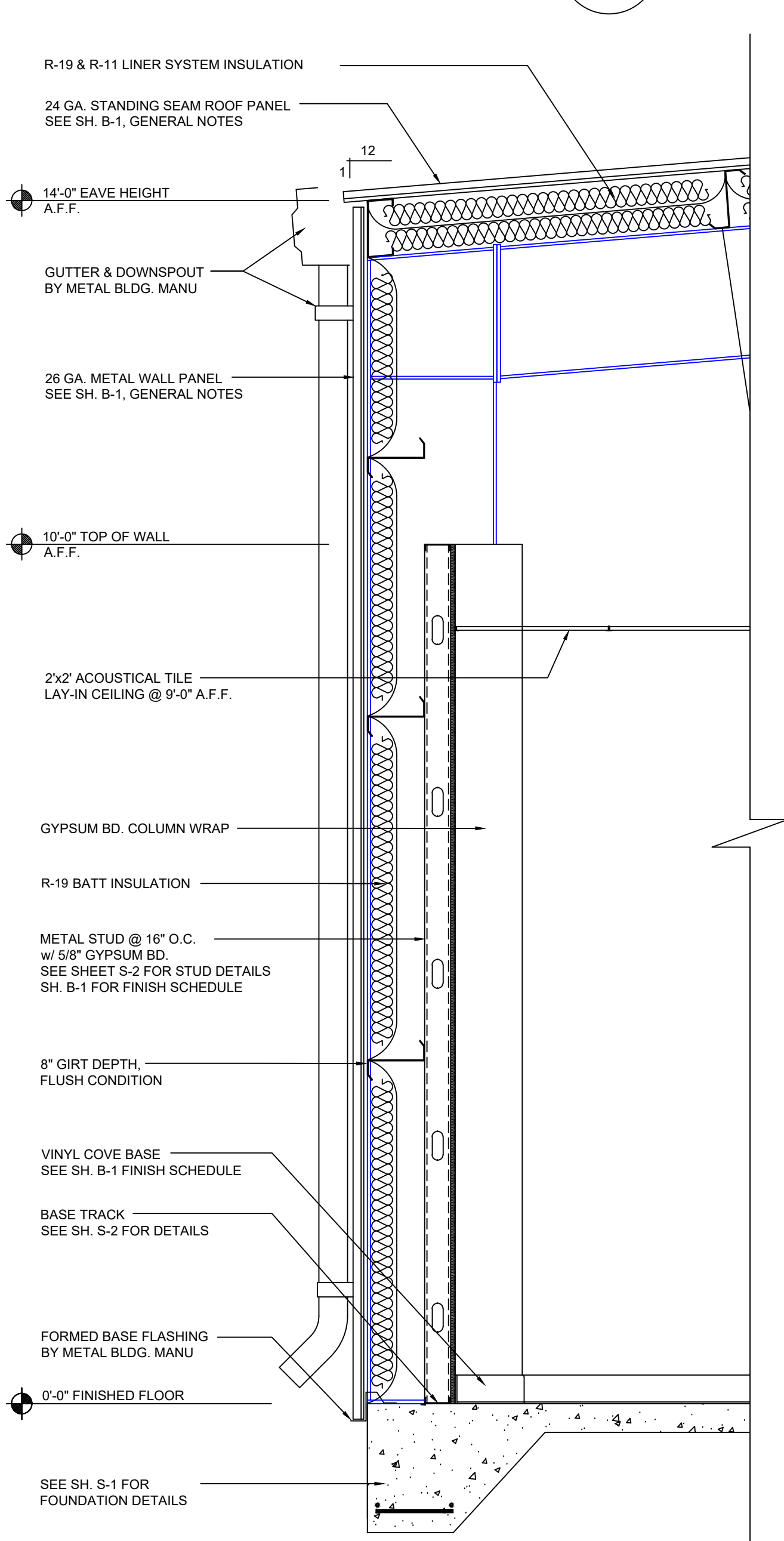
Project: **Wilson County Sheriff's Office Training Facility**
 2764 Commerce Road Wilson, NC 27893

Drawn by: **PADEN R.**
 Issue Date: **02.07.2025**
 Project Number: **24-102**
 Sheet: **B-3**



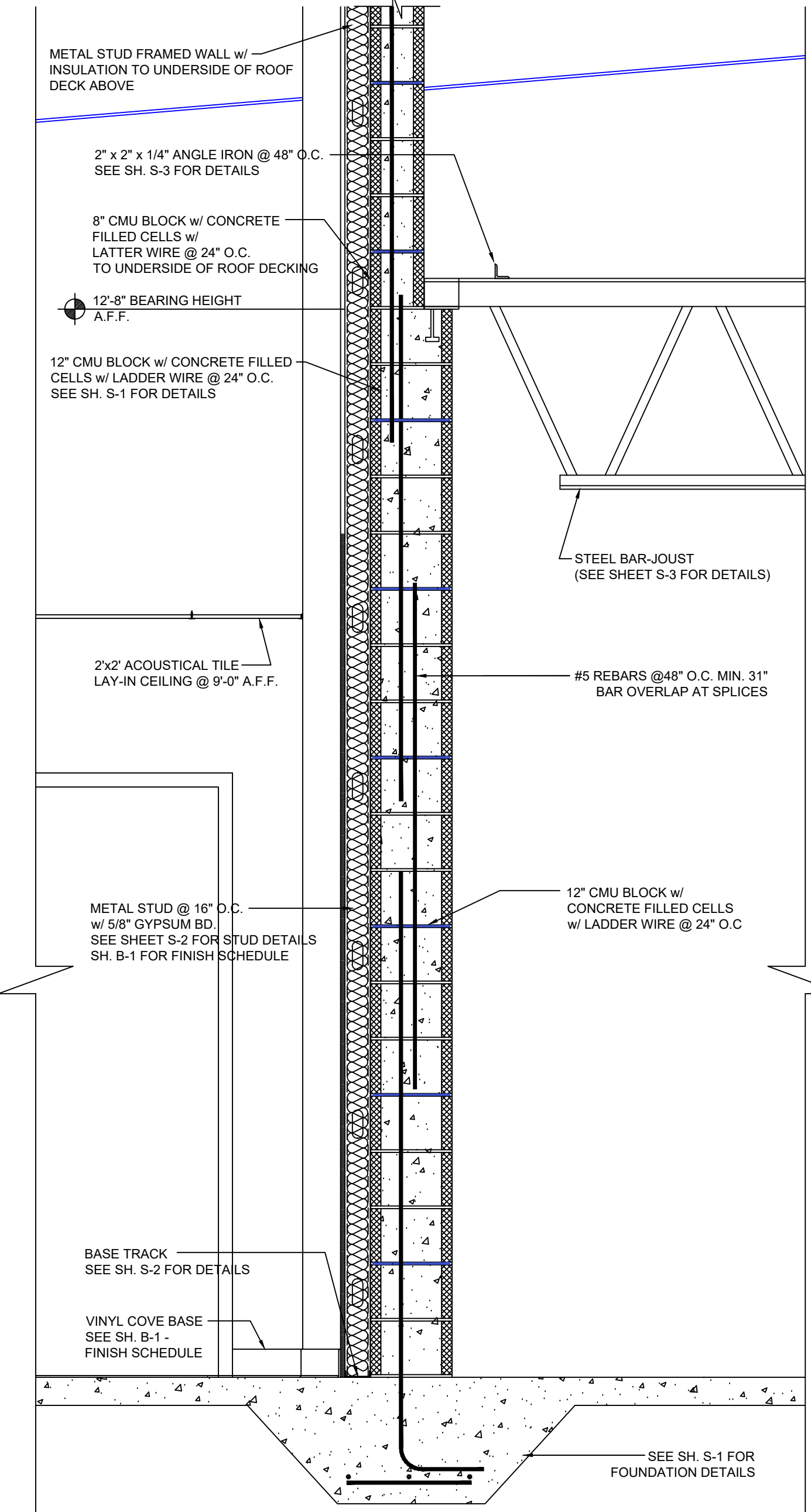
1 CROSS SECTION B-4

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



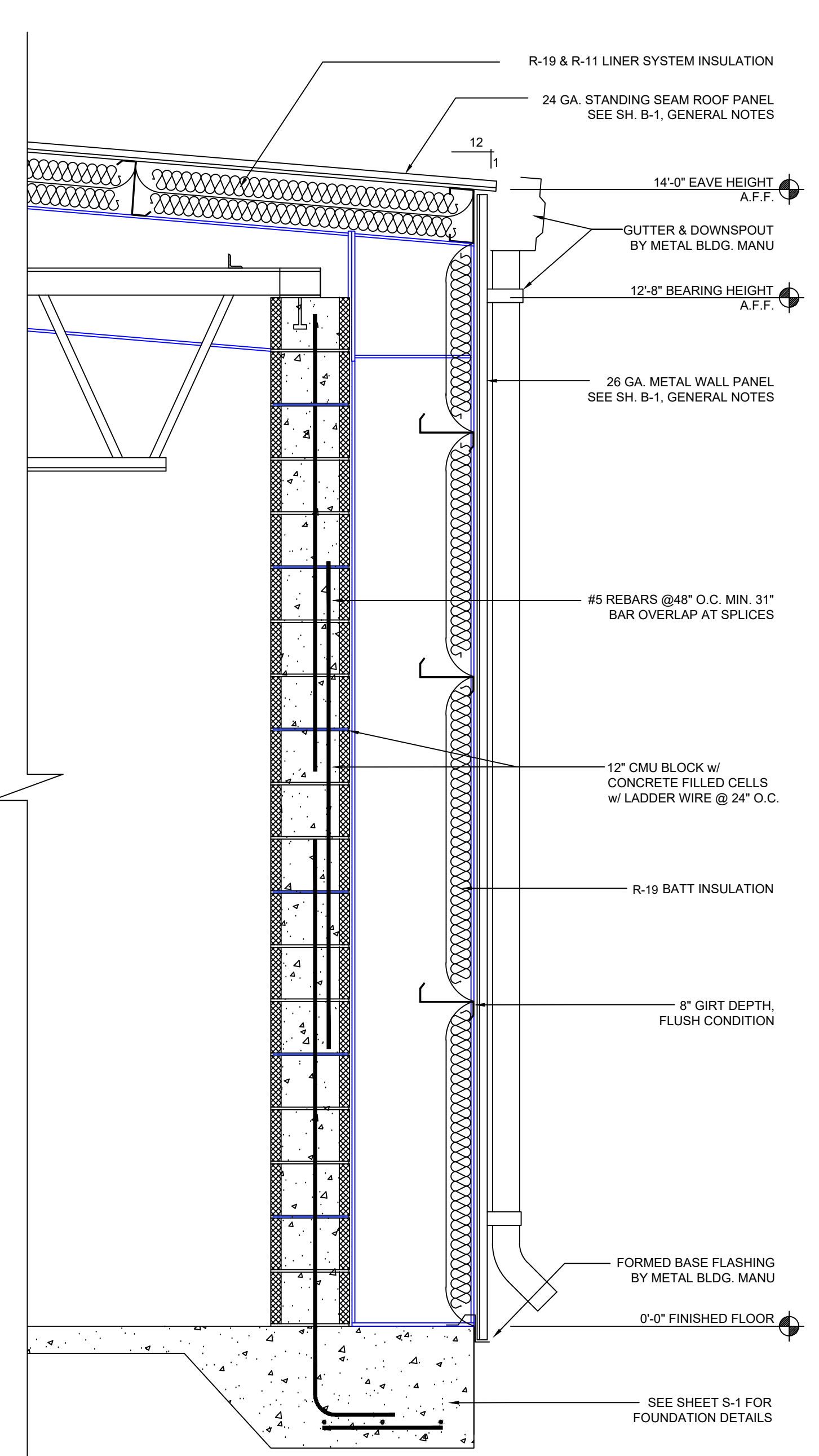
2 WALL SECTION B-4

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



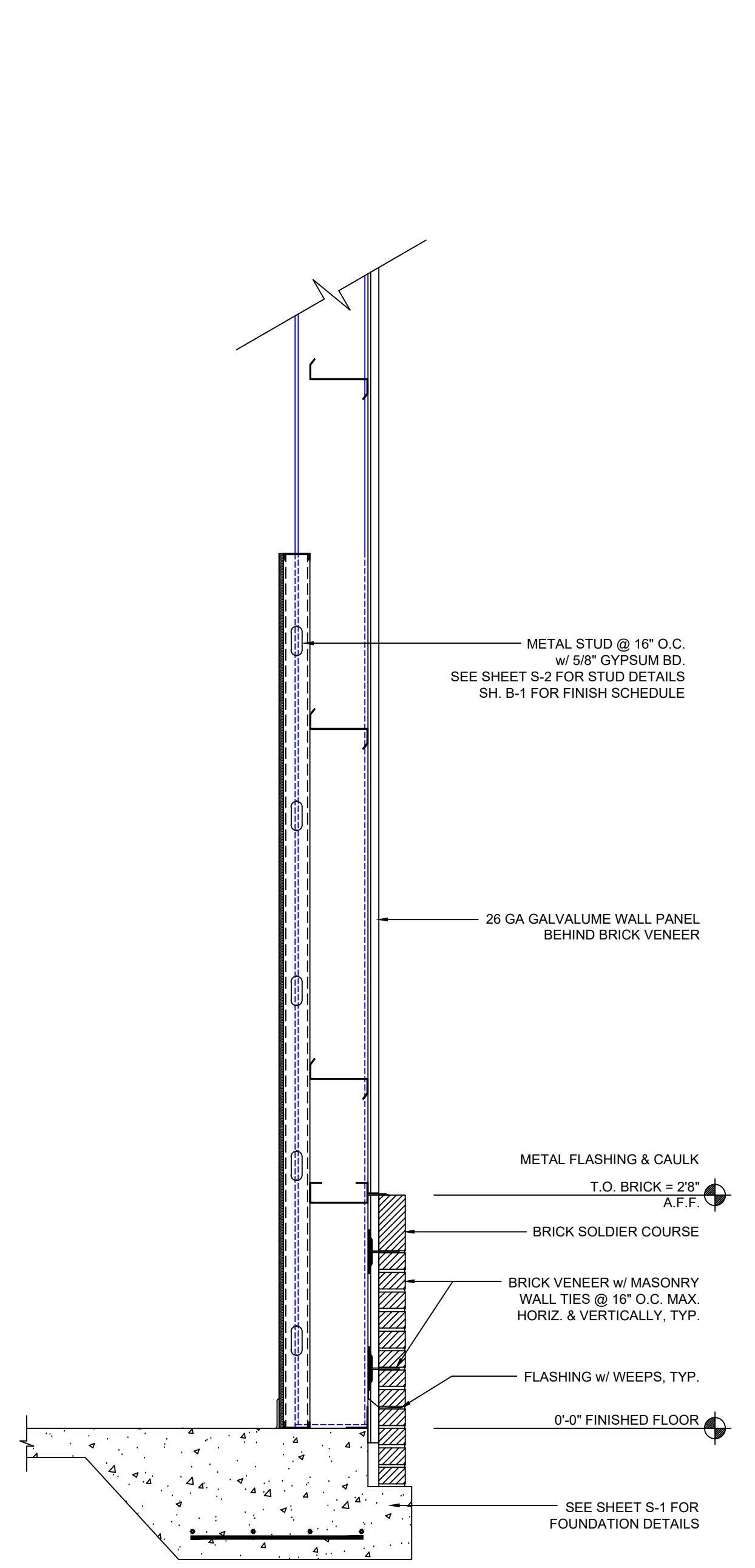
3 WALL SECTION B-4

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



4 WALL SECTION B-4

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



5 WALL SECTION B-4

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

Wilson County Sheriff's Office
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PE Seal

Rev.	Date:	Description:

Title Sheet: **CROSS SECTION / WALL SECTIONS**
 Project: **Wilson County Sheriff's Office Training Facility**
 2764 Commerce Road Wilson, NC 27893

Drawn by: **PADEN R.**
 Issue Date: **02.07.2025**
 Project Number: **24-102**
 Sheet: **B-4**

PLUMBING CONNECTION SCHEDULE

FIXTURE	CW	HW	WASTE	VENT
FLUSH TANK WATER CLOSET	1/2"	-	3"	2"
LAVATORY	1/2"	1/2"	2"	1 1/2"
3/4" FV URINAL	3/4"	-	2"	1 1/2"
KITCHEN SINK	1/2"	1/2"	2"	1 1/2"
JAN. SINK	1/2"	1/2"	2"	1 1/2"
EWC	1/2"	-	2"	1 1/2"

PLUMBING CALCULATIONS

ITEM	# OF	SUPPLY FIXTURE UNITS			WASTE FIXTURE UNITS
		COLD	HOT	TOTAL	
FLUSH TANK WATER CLOSET	3	5.0	-	5.0	6
LAVATORY	2	1.5	1.5	2.0	1
3/4" FV URINAL	1	5.0	-	5.0	2
KITCHEN SINK	1	1.0	1.0	1.4	2
JAN. SINK	1	2.25	2.25	3.0	2
EWC	2	0.25	-	0.25	0.5
GPM - 23.3		COLD TOTAL	HOT TOTAL	TOTAL	WASTE TOTAL
		26.75	6.25	28.9	27

PLUMBING FIXTURE SCHEDULE

MARK	MAKE	DESCRIPTION
P-1	AMERICAN STANDARD OR EQUAL	1.6 GAL. ELONGATED, FLOOR MTD. FLUSH TANK WATER CLOSET WITH OPEN FRONT SEAT
P-2	AMERICAN STANDARD OR EQUAL	1.6 GAL. ELONGATED, FLOOR MTD. 17" H HANDICAPPED FLUSH TANK WATER CLOSET WITH OPEN FRONT SEAT. ADA COMPLIANT
P-3	AMERICAN STANDARD OR EQUAL	3/4" HC ACCESSIBLE WALL MOUNTED FLUSH VALVE URINAL. RIM 17" AFF. ADA COMPLIANT
P-4	AMERICAN STANDARD OR EQUAL	WALL-HUNG HC ACCESSIBLE LAVATORY WITH SELF-METERING FAUCET. RIM 34" AFF. ADA COMPLIANT TEMP. @ FAUCET SET @ 115°F MAX.
P-5	BRADLEY OR EQUAL	COMBINATION DRENCH SHOWER AND HALO EYE / FACE WASH WITH STAINLESS STEEL BOWL. ADA COMPLIANT BARRIER FREE. PROVIDE WITH TEPID WATER OPTION MIXING VALVE. TEMP. @ FAUCET SET @ 115°F MAX.
P-6	ELKAY OR EQUAL	"L2STL8WSAP" BI-LEVEL ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION. ADA COMPLIANT. 120V, 6 AMPS
P-7	ELKAY OR EQUAL	HC ACCESSIBLE DOUBLE COMPARTMENT STAINLESS STEEL SINK WITH GOOSENECK FAUCET & WINGED LEVER HANDLES. ADA COMPLIANT
P-8	MUSTEE OR EQUAL	"19CF" 20" UTILITUB DEEP SINK ON LEGS WITH DRAIN & FAUCET COMBO KIT
P-9	BOSCH OR EQUAL	"US3" ELECTRIC TANKLESS POINT-OF-USE COMMERCIAL WATER HEATER. 120V, 3.4 KW
P-10	NORITZ OR EQUAL	"NCC196CDV" LP GAS TANKLESS WATER HEATER. 199 MBH INPUT, 11.1 GPM SUITABLE FOR EXTERIOR LOCATION. 120V, 2 AMPS
P-11	TACO OR EQUAL	"007" CIRCULATING PUMP. 120V, 1.4 AMPS

NOTES: 1. FLUSHERS FOR WATER CLOSETS SHALL BE ON APPROACH SIDE OF FIXTURE.
2. COORDINATE ALL FIXTURES AND FAUCETS WITH OWNER PRIOR TO INSTALLATION.

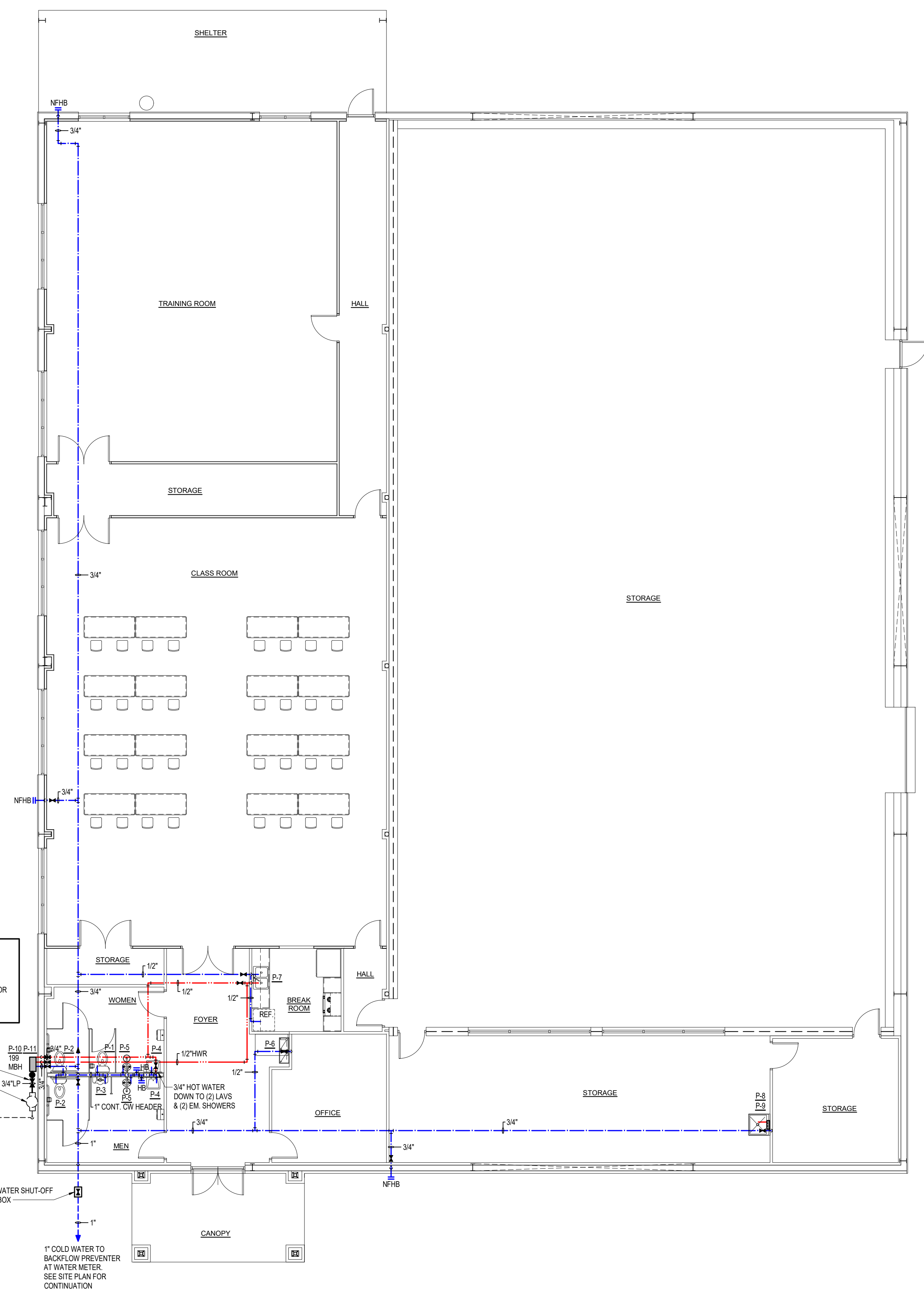
GENERAL PLUMBING NOTES

- ALL WORK SHALL BE IN COMPLIANCE WITH LOCAL, STATE, AND NATIONAL CODES.
- CONTRACTOR SHALL COORDINATE PIPING WITH ALL OTHER TRADES.
- CONTRACTOR SHALL REFER TO "B" SHEETS FOR DIMENSIONS.
- CONTRACTOR SHALL FURNISH AND INSTALL DIELECTRIC UNIONS AT ALL CONNECTIONS BETWEEN DISSIMILAR METALS.
- CONTRACTOR SHALL FURNISH AND INSTALL ESCUTCHEONS AND COVER PLATES AT ALL FINISHED WALLS, CEILINGS AND FLOOR OPENINGS.
- PIPING SHALL BE DISINFECTED IN ACCORDANCE WITH STATE AND LOCAL CODE.
- ALL PIPING SHALL BE TESTED FOR LEAKS. IF ANY LEAKS ARE DETECTED THE PIPING SHALL BE REPAIRED OR REPLACED AND RETESTED.
- INSULATE ALL HOT & COLD WATER PIPING.
- SUPPLY PIPING SHALL BE PEX
- WASTE AND VENT PIPING SHALL BE SCH. 40 PVC. & SCH. 80 UNDER TRAFFIC AREAS.
- SET HOT WATER TEMPERATURE FROM LAVATORY & HAND SINK FAUCETS TO 115 DEGREE F. MAX.
- PROVIDE SHUT-OFF VALVES IN ALL SUPPLY PIPING LINES ABOVE CEILING FOR ALL DROPS AND AT PLUMBING FIXTURES. PROVIDE ACCESS TO ALL VALVES AS REQUIRED IN HARD CEILINGS.
- FIRE STOP ALL PENETRATIONS THRU RATED WALLS & CEILINGS. SEE "B" SHEETS FOR EXACT LOCATION, CONDITIONS & REQUIREMENTS.
- PLUMBING LAYOUTS ARE SCHEMATIC. ALL RISES, DROPS, OFFSETS, AND TRANSITIONS REQUIRED BUT NOT SHOWN SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

GAS SUMMARY: 2 PSI, LP
LOAD: 199 MBH
5 FT. FROM SECOND STAGE REGULATOR TO MOST REMOTE GAS APPLIANCE (APPROX.)

GAS SHUT-OFF VALVE & EQUIPMENT REGULATOR. SEE DETAIL THIS SHEET
2nd STAGE REGULATOR
LP GAS U.G. TO 1st STAGE REGULATOR AT LP GAS TANK. VERIFY EXACT LOCATION & CONDITIONS AT SITE PRIOR TO CONSTRUCTION. (SIZED BY LP GAS SUPPLIER)

BUILDING COLD WATER SHUT-OFF VALVE IN VALVE BOX
1" COLD WATER TO BACKFLOW PREVENTER AT WATER METER. SEE SITE PLAN FOR CONTINUATION

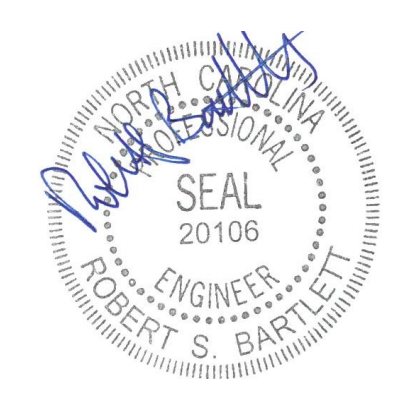
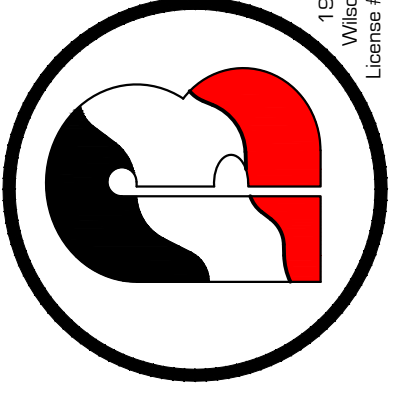


PLUMBING - SUPPLY PIPING PLAN
SCALE: 1/8" = 1'-0"

RATED WALL LEGEND	
SYMBOL	DESCRIPTION
---	2 HR. RATED WALL. SEE "B" SHEETS FOR DETAILS

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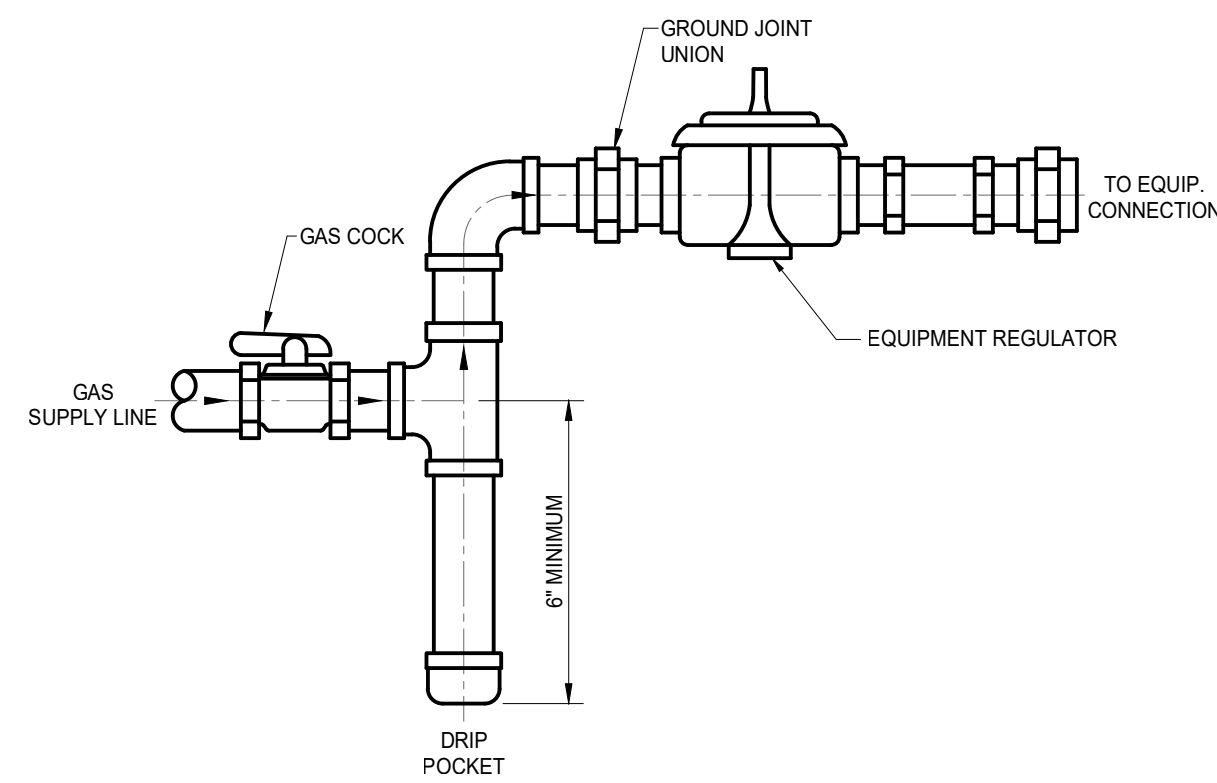
PLUMBING - SUPPLY PIPING PLAN
Wilson County Sheriffs Office
Training Facility
2764 Commercial Road Wilson, NC 27708

Drawn by: J. Thompson
Issue Date: 02-07-25
Project Number: 24-102
Sheet: **P-1**

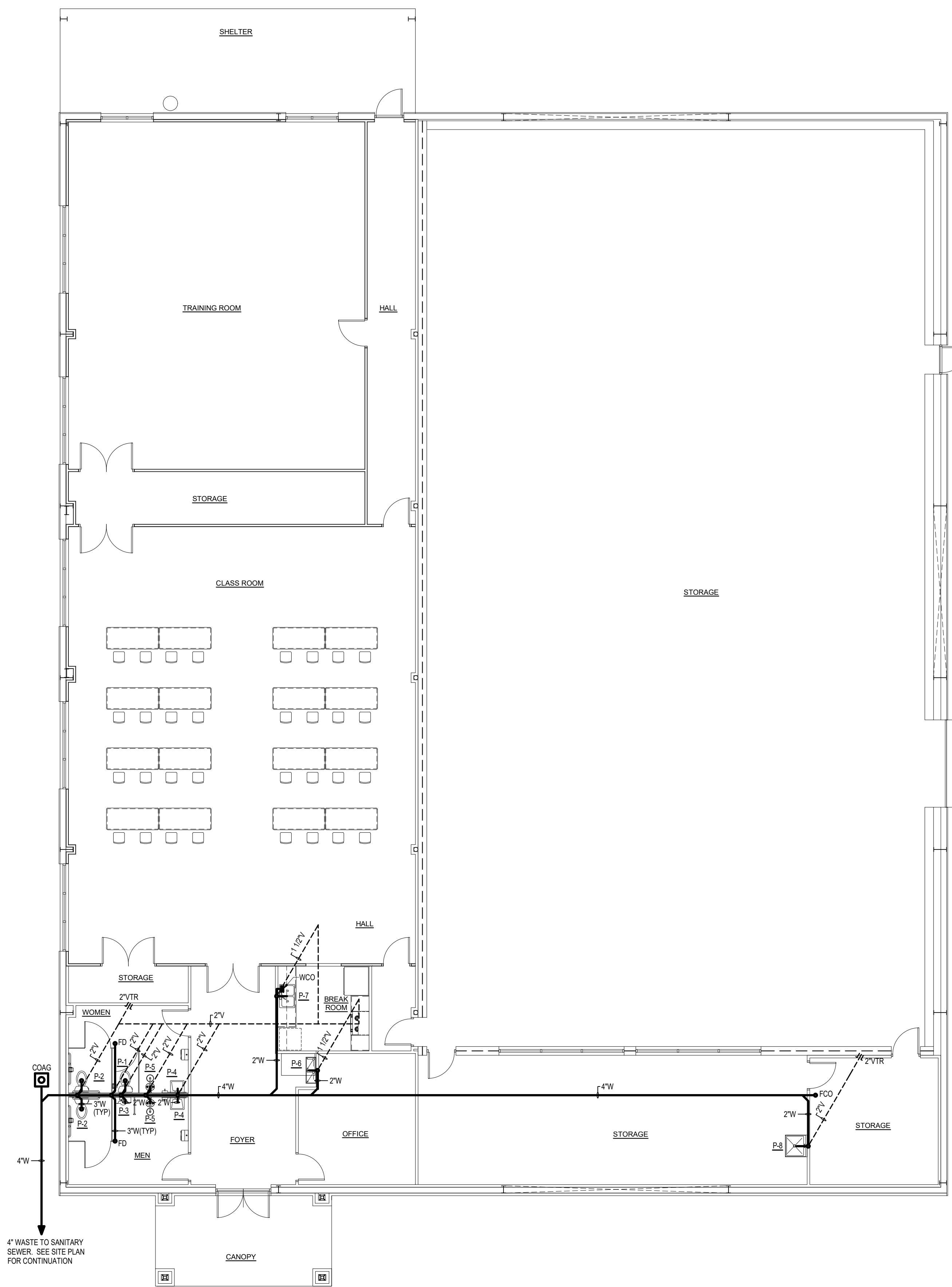
PLUMBING LEGEND	
DESCRIPTION	SYMBOL
COLD WATER	CW
HOT WATER	HW
HOT WATER RETURN	HWR
VENT PIPING	V
WASTE PIPING	W
CLEAN OUT AT GRADE	COAG
WALL CLEAN OUT	WCO
FLOOR CLEAN OUT	FCO
FLOOR DRAIN WITH TRAP PRIMER	FD
HOSE BIBB (KEYED TYPE)	HB
NON-FREEZE HOSE BIBB (KEYED TYPE)	NFHB
CHECK VALVE	
SHUT-OFF VALVE	
FIXTURE DESIGNATION	P
MOUNTING HEIGHT	MH
VENT THRU ROOF	VTR

GAS PIPING NOTES:

1. GAS PIPING TO BE INSTALLED IN COMPLIANCE WITH THE LATEST NC GAS FUEL CODE.
2. GAS LINE TO BE BONDED TO BUILDING STEEL IN ACCORDANCE WITH THE LATEST NC GAS FUEL CODE, SECTION 310 ELECTRICAL BONDING.
3. GAS PIPING TO BE SCHEDULE 40 BLACK IRON TREADED.
4. MARK GAS PIPING WITH GAS & PSI IN BLACK LETTERS ON YELLOW BACKGROUND PER CODE.
5. PROVIDE AND INSTALL & TRACER WIRE FOR UNDERGROUND GAS PIPING PER LATEST NC FUEL CODE SECTION 404.15.3 TRACER.
6. TAG TOTAL BTU'S & ADDRESS AT BUILDING MAIN REGULATOR AS REQUIRED.
7. MP REGULATORS SHALL COMPLY WITH SECTION 410.2 MP REGULATORS IN THE LATEST NC FUEL GAS CODE.



DETAIL - GAS CONNECTION
NOT TO SCALE



PLUMBING - WASTE & VENT PIPING PLAN
SCALE: 1/8" = 1'-0"

RATED WALL LEGEND	
SYMBOL	DESCRIPTION
	2 HR. RATED WALL. SEE "B" SHEETS FOR DETAILS

Prepared for:
Wilson County Sheriffs Office
 PO Box 1666 100 E. Green St. Wilson, NC
 Office: 252.237.2118 Fax: 252.399.2871

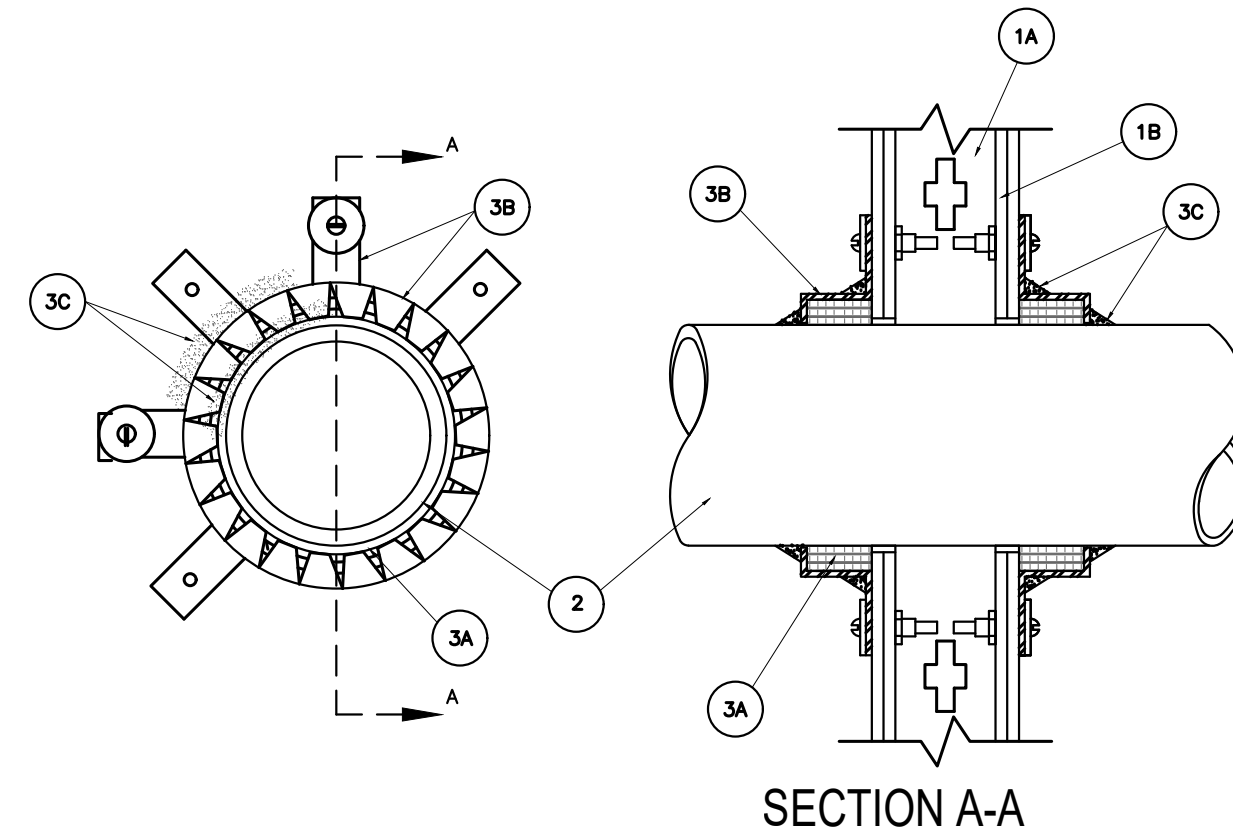


Rev.	Date:	Description:

Title Sheet:
PLUMBING - WASTE & VENT PIPING PLAN
 Project:
Wilson County Sheriffs Office Training Facility
 2764 Commercial Road Wilson, NC 27893

Drawn by: J. Thompson
 Issue Date: 02-07-25
 Project Number: 24-102
 Sheet:

SYSTEM NO. W-L-2002
(FORMERLY SYSTEM NO. 148)
F RATINGS - 1, 1-1/2 AND 2 HR (SEE ITEM 3)
T RATINGS - 3/4, 1, 1-1/2 AND 2 HR (SEE ITEM 3)
L RATING AT AMBIENT - 7 CFM/sq ft (SEE ITEM C)
L RATING AT 400 F - 1 CFM/sq ft (SEE ITEM 3C)



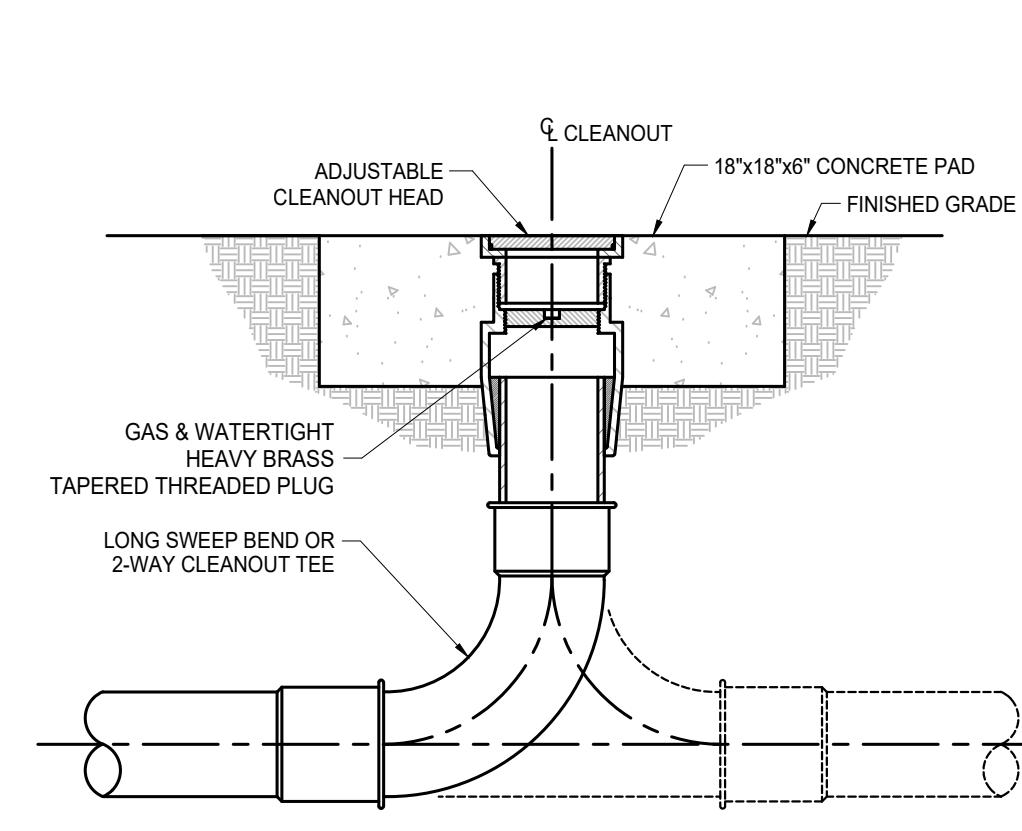
1. Wall Assembly - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.
B. Gypsum Board* - 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 7 in.
2. Nonmetallic Pipe or Conduit - One nonmetallic pipe or conduit is centered within the firestop system. Pipe or conduit to be installed near center of stud cavity width and to be rigidly supported on both sides of wall. The following types and sizes of nonmetallic pipes or conduit may be used:
A. Nom 6 in. diam (or smaller) Schedule 40 solid-core polyvinyl chloride (PVC) pipe.
B. Nom 4 in. diam (or smaller) Schedule 40 cellular core polyvinyl chloride (PVC) pipe.
C. Nom 4 in. diam (or smaller) Schedule 40 solid-core acrylonitrile-butadiene-styrene (ABS) pipe.
D. Nom 4 in. diam (or smaller) Schedule 40 fire retardant polypropylene (FRPP) pipe.
E. Nom 4 in. diam (or smaller) Rigid Nonmetallic Conduit formed of PVC.
F. Nom 1 in. diam (smaller) Electrical Nonmetallic Tubing formed of PVC.
G. Nom 6 in. diam (or smaller) Schedule 40 chlorinated polyvinyl chloride (CPVC) pipe.
See Rigid Nonmetallic Conduit (DZKT) and Electrical Nonmetallic Tubing (FKHU) categories in UL Electrical Construction Materials Directory for names of manufacturers.
3. Firestop System - Installed symmetrically on both sides of wall assembly. The hourly F and T Ratings for the firestop system are dependent upon the type and size of nonmetallic pipe or conduit, the piping system type (closed systems such as process or supply piping or vented systems such as drain, waste or vent piping) and the hourly fire rating of the wall assembly in which it is installed, as shown in the following table.

Pipe or Conduit Type	Nom Pipe Diam in.	Annular Space in.	Piping System (g)	Wall Fire Rating Hr	F Rating Hr	T Rating Hr
FRPP	1/2 to 2	0- 3/16	V	2	1-1/2	1-1/2
FRPP, PB	1/2 to 2	0- 3/16	C	2	2	2
ABS	1/2 to 4	0- 3/16	C,V	1	1	3/4
ABS	1/2 to 4	0- 3/16	C,V	2	1-1/2	1-1/2
PVC	1/2 to 4	0- 3/16	C,V	1	1	1
PVC	1/2 to 4	0- 3/16	C,V	2	2	2
FRPP +	2-1/2 to 4	0- 3/16	C,V	2	1-1/2	1-1/2
PVC +	5, 6	0- 3/16	C,V	2	1-1/2	1-1/2

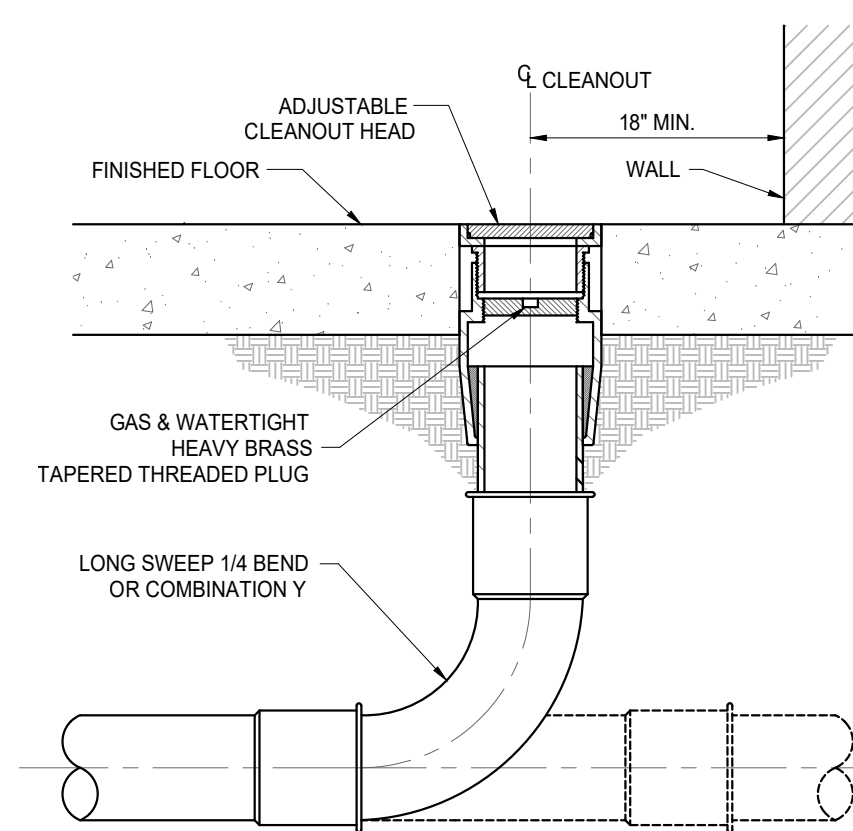
+PIPE COVERING MATERIAL WRAP REQUIRED ON PIPE ON BOTH SIDES OF WALL.
(A)C = CLOSED SYSTEMS, V = VENTED SYSTEMS.
THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS.
A. FILL, VOID OR CAVITY MATERIALS* - WRAP STRIP - NOM 1/4 IN. THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN 2 IN. WIDE STRIPS. NOM 2 IN. WIDE STRIPS TIGHTLY WRAPPED AROUND NONMETALLIC PIPE OR CONDUIT (FOIL SIDE EXPOSED) WITH THE EDGES BUTTED AGAINST THE SURFACE OF THE WALL. SUFFICIENT LAYERS OF WRAP STRIP SHALL BE INSTALLED TO LAP A MIN OF 3/16 IN. ON THE WALL SURFACE AROUND THE ENTIRE PERIMETER OF THE CIRCULAR THROUGH OPENING. FOR NOM 1/2 IN. TO NOM 2 IN. DIAM PIPES OR CONDUITS, A MIN OF ONE LAYER OF WRAP STRIP IS REQUIRED. FOR NOM 2-1/2 IN. AND NOM 3 IN. DIAM PIPES, A MIN OF TWO LAYERS OF WRAP STRIP IS REQUIRED. FOR NOM 3-1/2 IN. AND NOM 4 IN. DIAM PIPES, A MIN OF THREE LAYERS OF WRAP STRIP IS REQUIRED. FOR NOM 5 AND 6 IN. DIAM, TWO TIERS (4 IN. OVERALL LENGTH) OF THREE LAYERS OF WRAP STRIP IS REQUIRED. WITH ADJOINING WRAP STRIP LAYER EDGES BETWEEN TIERS TIGHTLY BUTTED. EACH LAYER OF WRAP STRIP TO BE INSTALLED WITH BUTTED SEAM, WITH BUTTED SEAMS IN SUCCESSIVE LAYERS STAGGERED. WRAP STRIP LAYERS TEMPORARILY HELD IN POSITION USING ALUMINUM FOIL TAPE, STEEL WIRE TIE OR EQUIVALENT.
MINNESOTA MINING & MFG CO - TYPE FS-195+

PLUMBING PENETRATION DETAIL
NOT TO SCALE

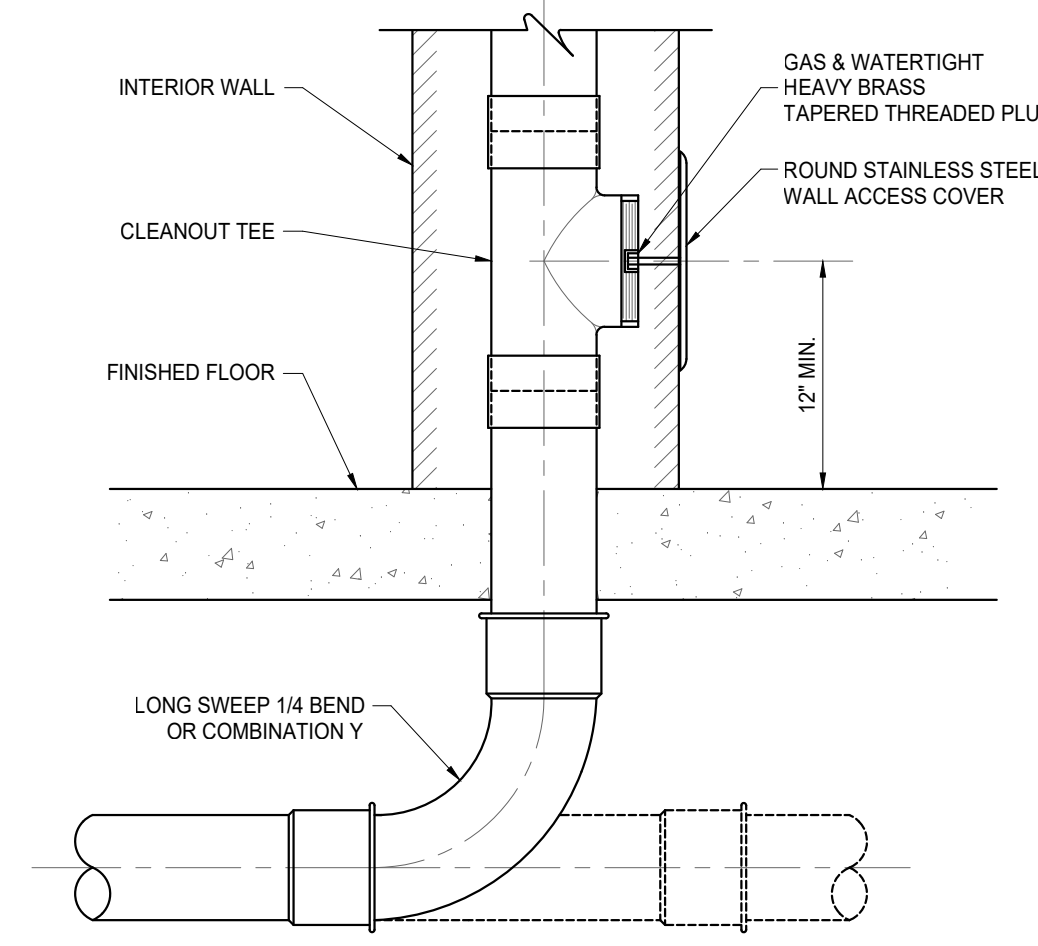
NOTE: SEE "D" SHEETS FOR RATED WALL LOCATIONS & DETAILS.



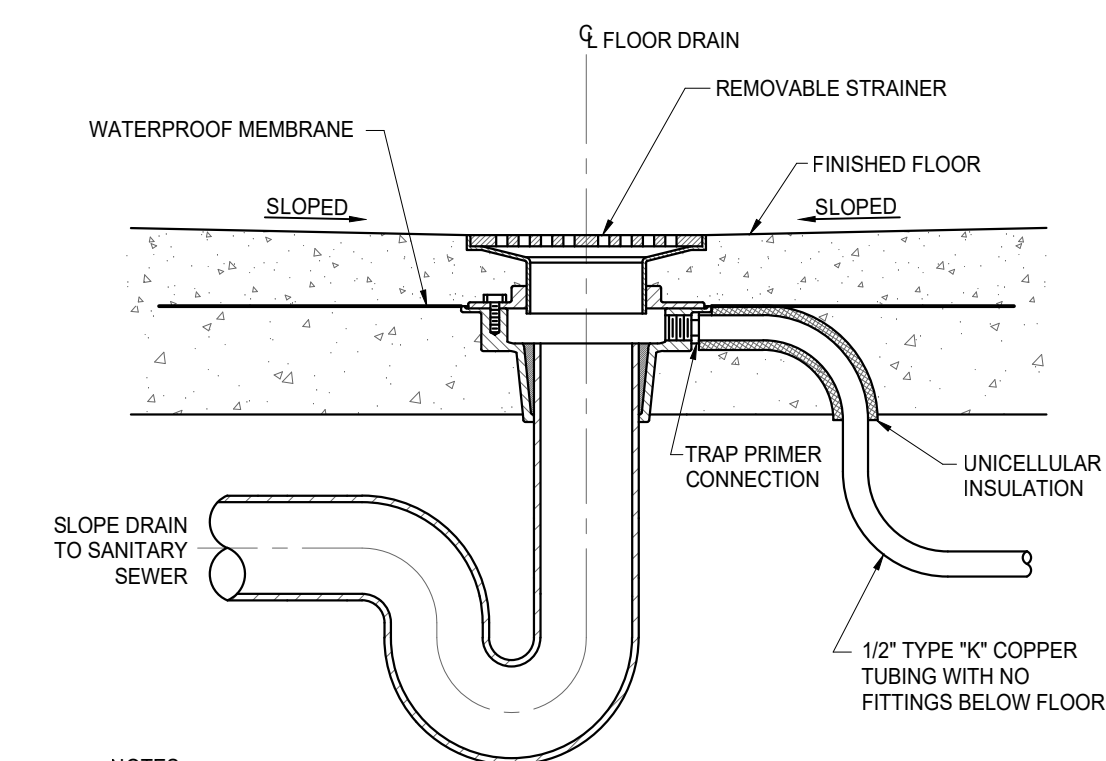
DETAIL - CLEAN OUT AT GRADE
NTS



DETAIL - FLOOR CLEAN OUT
NO SCALE

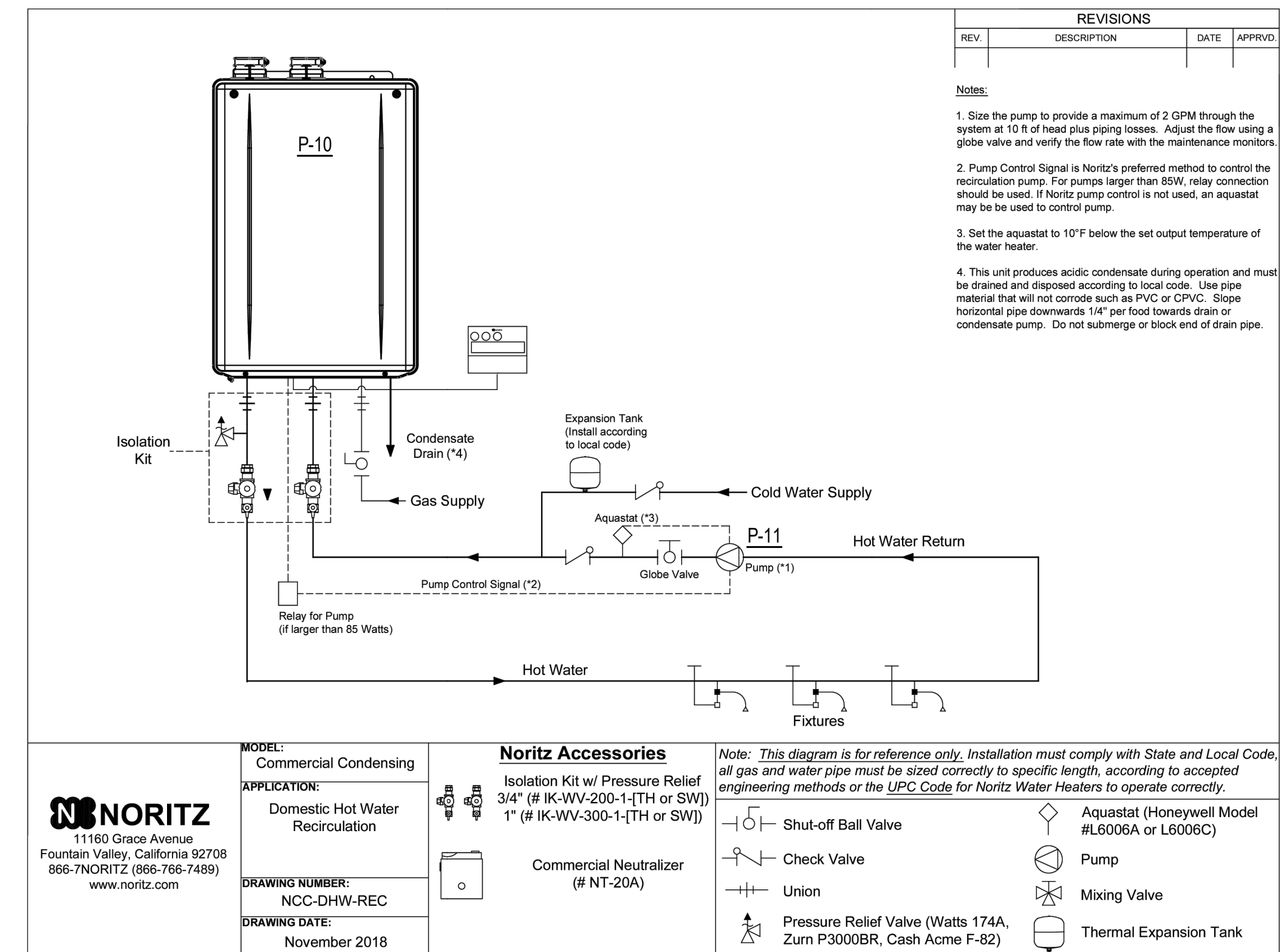


DETAIL - WALL CLEAN OUT
NTS



NOTES:
1. FINISHED FLOOR SHALL BE SLOPED TO DRAIN FLUSH WITH STRAINER WHERE REQUIRED. COORDINATE WITH G.C.
2. PROVIDE 1/2" TYPE "K" COPPER TUBING TO TRAP PRIMER CONNECTION AS REQUIRED

DETAIL - FLOOR DRAIN
NOT TO SCALE



REV	DESCRIPTION	DATE	APPROV.

Notes:
1. Size the pump to provide a maximum of 2 GPM through the system at 10 ft of head plus piping losses. Adjust the flow using a globe valve and verify the flow rate with the maintenance monitors.
2. Pump Control Signal is Noritz's preferred method to control the recirculation pump. For pumps larger than 80W, relay connection should be used. If Noritz pump control is not used, an aquastat may be used to control pump.
3. Set the aquastat to 10°F below the set output temperature of the water heater.
4. This unit produces acidic condensate during operation and must be drained and disposed according to local code. Use pipe material that will not corrode such as PVC or CPVC. Slope horizontal pipe downwards 1/4" per foot towards drain of condensate pump. Do not submerge or block end of drain pipe.

MODEL: Commercial Condensing
APPLICATION: Domestic Hot Water Recirculation
DRAWING NUMBER: NCC-DHW-REC
DRAWING DATE: November 2018

NORITZ
11160 Grace Avenue
Fountain Valley, California 92708
866-7NORITZ (866-766-7489)
www.noritz.com

Noritz Accessories
Isolation Kit w/ Pressure Relief 3/4" (# IK-WV-200-1-[TH or SW]) 1" (# IK-WV-300-1-[TH or SW])
Commercial Neutralizer (# NT-20A)
Shut-off Ball Valve
Check Valve
Union
Pressure Relief Valve (Watts 174A, Zurn P3000BR, Cash Acme F-82)

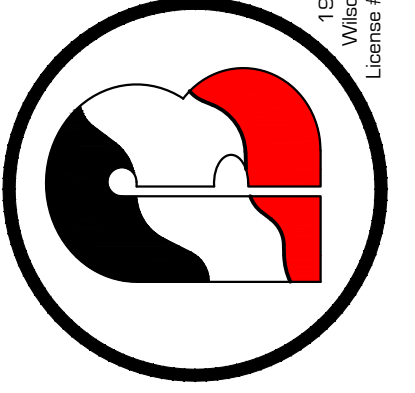
Note: This diagram is for reference only. Installation must comply with State and Local Code, all gas and water pipe must be sized correctly to specific lengths, according to accepted engineering methods or the IPEC Code for Noritz Water Heaters to operate correctly.

Aquastat (Honeywell Model #L6006A or L6006C)
Pump
Mixing Valve
Thermal Expansion Tank

DETAIL - WATER HEATER
NO SCALE

Wilson County Sheriffs Office
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Rev.	Date:	Description:

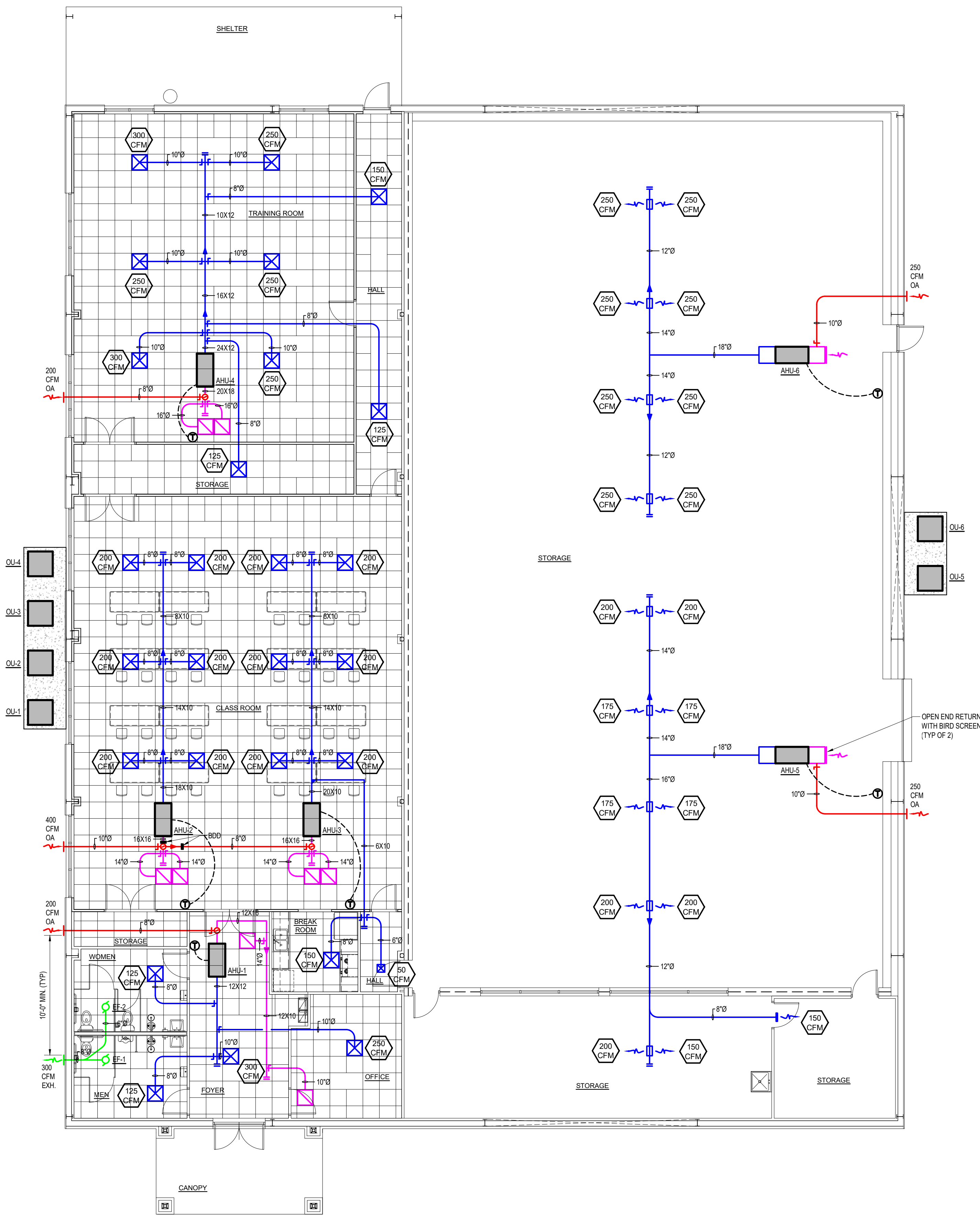
PLUMBING DETAILS
Wilson County Sheriffs Office
Training Facility
2764 Commercial Road
Wilson, NC 27868

Drawn by: J. Thompson
Issue Date: 02-07-25
Project Number: 24-102
Sheet: P-3

MECHANICAL SYMBOL LEGEND		
SINGLE LINE	DOUBLE LINE	DESCRIPTION
		TAKE OFF TO SUPPLY AIR REGISTER
		BRANCH TAKEOFF FROM MAIN TRUNK DUCT
		END CAP
		DUCT INSULATED WITH 2" EXTERNAL INSULATION. SEE GENERAL MECHANICAL NOTES
		VOLUME CONTROL DAMPER (TYP)
		SUPPLY AIR CEILING DIFFUSER. THROW TO MATCH CEILING HEIGHT.
		FLEXIBLE DUCTWORK (10' MAX)
		RETURN AIR GRILLE
		SUPPLY AIR DIFFUSER. THROW TO MATCH CEILING HEIGHT
		(1) CUSHION HEAD @ BRANCH OR DIFFUSER RUNOUT (2) CUSHION HEAD IS EQUAL TO 1/2 WIDTH OF THE BRANCH DUCT OR DIFFUSER RUNOUT
		MANUAL VOLUME CONTROL DAMPER W/ QUADRANT LOCKING DEVICE
		EXHAUST FAN
		O.A. DUCT WITH MANUAL DAMPER FROM RETURN AIR TRUNK DUCT
		MULTI-POSITION AIR HANDLER WITH FLEXIBLE CONNECTION AT SUPPLY & RETURN DUCT. PROVIDE WITH DRAIN PAN & VIBRATION ISOLATORS AS REQUIRED.
		OUTDOOR UNIT ON CONCRETE PAD
		BACKDRAFT DAMPER
		7-DAY PROGRAMMABLE THERMOSTAT WITH AUTO-CHANGEOVER

GENERAL MECHANICAL NOTES:

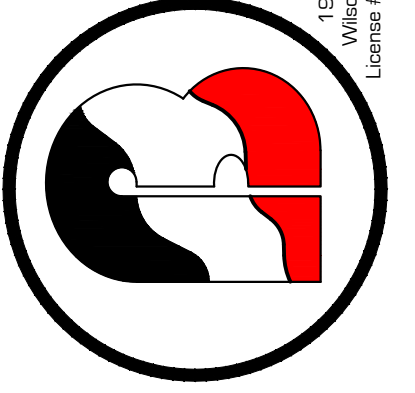
- ALL WORK SHALL BE IN COMPLIANCE WITH LOCAL, STATE, AND NATIONAL CODES.
- DUCTWORK LAYOUTS ARE SCHEMATIC. ALL RISES, DROPS, OFFSETS, AND TRANSITIONS REQUIRED BUT NOT SHOWN SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. DUCTWORK SHALL BE GALVANIZED STEEL AND SHALL BE IN CONSTRUCTION IN COMPLIANCE WITH SMACNA STANDARDS FOR LOW VELOCITY DUCTWORK.
- ALL HARD ROUND DUCTWORK SHALL BE GALVANIZED STEEL AS OR APPROVED EQUAL. LOCK FORMING SHALL MEET ASTM A-527 STANDARDS. DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. FLEXIBLE RUN OUTS SHALL NOT EXCEED 10'-0" AND SHALL NOT BE USED TO FORM ELBOWS. CONNECTIONS FROM RECTANGULAR TO ROUND DUCT SHALL BE MADE WITH MANUFACTURED 45 DEG. LATERAL TAPS.
- SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED WITH FIBERGLASS INSULATION WITH A MINIMUM THERMAL RESISTANCE OF R-8 AND AN ATTACHED VAPOR BARRIER. DIFFUSERS SHALL BE INSULATED WITH FIBERGLASS INSULATION WITH VAPOR BARRIER. ALL JOINTS SHALL BE TAPED TO PROVIDE A CONTINUOUS VAPOR BARRIER.
- DUCT SIZES SHOWN ARE NET DIMENSIONS. DUCT SIZES SHOULD BE INCREASED TO ALLOW FOR LINING WHEN USED. DUCT LINER SHALL BE INSTALLED FROM THE A.H.U. RETURN TO THE FIRST 90 DEG. ELBOW OR IF NO ELBOW, FROM UNIT RETURN TO 10'-0" DOWNSTREAM. ACOUSTICAL LINER SHALL BE 1" THICK X 1/2LB. DENSITY. ALL DUCTWORK SHALL BE SEALED AIR TIGHT WITH SEALING COMPOUND.
- EXHAUST FANS AND DUCTWORK BY MECHANICAL CONTRACTOR. WIRING FOR EXHAUST FANS BY ELECTRICAL CONTRACTOR.
- MECHANICAL CONTRACTOR TO PROVIDE AN AIR BALANCE REPORT UPON COMPLETION OF WORK TO OWNER AND LOCAL BUILDING INSPECTOR.
- FIRE STOP ALL PENETRATIONS THRU RATED WALLS, FLOORS & CEILINGS. SEE "B" SHEETS FOR EXACT LOCATION, CONDITIONS & REQUIREMENTS.
- ALL CONDENSATE THAT IS DISCHARGED ON GRADE SHALL TERMINATE ONTO A CONCRETE SPLASH BLOCK.
- ALL ROUND EXPOSED DUCTWORK TO BE GALVANIZED, DOUBLE WALL INSULATED, PAINTED PER OWNER'S DIRECTION.



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

RATED WALL LEGEND	
SYMBOL	DESCRIPTION
	2 HR. RATED WALL. SEE "B" SHEETS FOR DETAILS

Prepared for:



FE Seal

Rev: Description: Date:

Title Sheet: MECHANICAL PLAN

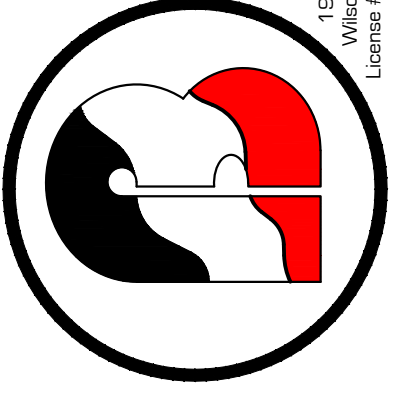
Project: Wilson County Sheriffs Office Training Facility
2764 Commercial Road Wilson, NC 27693

Drawn by: J. Thompson
Issue Date: 02-07-25
Project Number: 24-102
Sheet:

M-1

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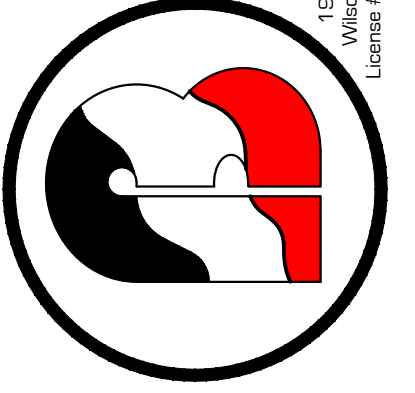
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M-1

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Project: Wilson County Sheriffs Office Training Facility
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Drawn by: J. Thompson
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Sheet:

M-1

SPLIT SYSTEM HEAT PUMP SCHEDULE																							
INDOOR UNIT								OUTDOOR UNIT								COMBINED RATINGS							
MARK	TOTAL CFM	O.A. CFM	MANUFACTURER *	MODEL / SERIES	DESCRIPTION	WEIGHT	ELECTRICAL CHARACTERISTICS				MARK	MODEL / SERIES	MANUFACTURER *	DESCRIPTION	WEIGHT	ELECTRICAL CHARACTERISTICS				COOL CAP.	SEER	SYS. HEAT	AUX. HEAT
							VOLTAGE	PH	MCA	MOCP						VOLTAGE	PH	MCA	MOCP				
AHU-1	800	200	TRANE	TAM9	VARIABLE SPEED MODULAR MULTI-POS AIR HANDLER	116 LBS. NET	208	1	40	40	OU-1	4TWR4, XR14	TRANE	PAD MTD. OUTDOOR UNIT	174 LBS. NET	208	1	15	25	2 TONS	14	24,000 BTUHR.	5.76 KW
AHU-2	1,200	200	TRANE	TAM9	VARIABLE SPEED MODULAR MULTI-POS AIR HANDLER	146 LBS. NET	208	1	48	50	OU-2	4TWR4, XR14	TRANE	PAD MTD. OUTDOOR UNIT	199 LBS. NET	208	1	18	30	3 TONS	14	36,000 BTUHR.	7.2 KW
AHU-3	1,400	200	TRANE	TAM9	VARIABLE SPEED MODULAR MULTI-POS AIR HANDLER	150 LBS. NET	208	1	48	50	OU-3	4TWR4, XR14	TRANE	PAD MTD. OUTDOOR UNIT	227 LBS. NET	208	1	24	40	3.5 TONS	14	42,000 BTUHR.	7.2 KW
AHU-4	2,000	200	TRANE	TAM9	VARIABLE SPEED MODULAR MULTI-POS AIR HANDLER	163 LBS. NET	208	1	53	60	OU-4	4TWR4, XR14	TRANE	PAD MTD. OUTDOOR UNIT	251 LBS. NET	208	1	32	50	5 TONS	14	60,000 BTUHR.	7.2 KW
AHU-5	2,000	250	TRANE	TAM9	VARIABLE SPEED MODULAR MULTI-POS AIR HANDLER	163 LBS. NET	208	1	53	60	OU-5	4TWR4, XR14	TRANE	PAD MTD. OUTDOOR UNIT	251 LBS. NET	208	1	32	50	5 TONS	14	60,000 BTUHR.	7.2 KW
AHU-6	2,000	250	TRANE	TAM9	VARIABLE SPEED MODULAR MULTI-POS AIR HANDLER	163 LBS. NET	208	1	53	60	OU-6	4TWR4, XR14	TRANE	PAD MTD. OUTDOOR UNIT	251 LBS. NET	208	1	32	50	5 TONS	14	60,000 BTUHR.	7.2 KW

NOTES:
1. PROVIDE COOLING COIL FOR RATED CAPACITY, MAX 0.5 EXT. SP DROP, AND SCHEDULED AIR FLOW. COIL SHALL HAVE ASHRAE FULLY DRAINABLE CONDENSATE PAN AND AUTO SHUT-OFF TO PREVENT CONDENSATE OVERFLOW.
2. PROVIDE & INSTALL WIRED PROGRAMMABLE THERMOSTAT WITH AUTO-CHANGEOVER.
3. CONTRACTOR SHALL REVIEW MODEL NUMBERS WITH MANUFACTURER FOR COMPATIBILITY & GENERAL REQUIREMENTS PRIOR TO ORDERING EQUIPMENT.
* - EQUAL BY YORK, CARRIER

REGISTER, GRILLE & DIFFUSER SCHEDULE							
CFM	NECK SIZE	MAKE *	MODEL	MATERIAL	MOUNT	TYPE	DUCT SIZE
50-100	6X6	METAL-AIRE	SERIES 5000	EXTRUDED ALUMINUM	CEILING	SUPPLY	6"Ø
125-225	9X9	METAL-AIRE	SERIES 5000	EXTRUDED ALUMINUM	CEILING	SUPPLY	8"Ø
250-300	12X12	METAL-AIRE	SERIES 5000	EXTRUDED ALUMINUM	CEILING	SUPPLY	10"Ø
150-175	12X6	METAL-AIRE	SERIES 4000P	EXTRUDED ALUMINUM	DUCT SIDEWALL	SUPPLY	N/A
250	14X6	METAL-AIRE	SERIES 4000P	EXTRUDED ALUMINUM	DUCT SIDEWALL	SUPPLY	N/A
250-300	10X10	METAL-AIRE	SERIES CC5F	ALUMINUM	CEILING	RETURN	10"Ø
325-450	12X12	METAL-AIRE	SERIES CC5F	ALUMINUM	CEILING	RETURN	12"Ø
500-700	14X14	METAL-AIRE	SERIES CC5F	ALUMINUM	CEILING	RETURN	14"Ø
1,000	18X18	METAL-AIRE	SERIES CC5F	ALUMINUM	CEILING	RETURN	18"Ø

NOTES:
1. ALL BRANCH DUCTS AND RUN OUTS SHALL HAVE MANUAL LOCKING QUADRANT BALANCING DAMPERS.
2. ALL DIFFUSERS, REGISTERS AND GRILLES SHALL BE FACTORY INSULATED.
3. PANEL / FACE SHALL BE SUITABLE FOR CEILING TYPE.
4. SUPPLY AIR DIFFUSERS THROW SHALL MATCH CEILING HEIGHT IN SPACE IT SERVES.
5. MAX NC LEVEL - 20
* - EQUAL BY PRICE, TITUS

CABINET EXHAUST FAN SCHEDULE									
MARK	MAKE *	MODEL	TYPE	CFM	EX. S.P.	WATTS	ELECTRICAL		
EF-1 & 2	COOK	GC-168	CABINET EXHAUST	150	0.25	56	VOLT	PH	HZ.
							120	1	60

NOTES:
1. INTERLOCK EXHAUST FANS WITH LIGHTS
2. PROVIDE EXHAUST FANS WITH DISC, BDD, BIRD SCREEN & WALL CAP
* - EQUAL BY PANASONIC, GREENHECK

MECHANICAL SUMMARY	
MECHANICAL SYSTEMS SERVICE SYSTEMS AND EQUIPMENT:	
Thermal Zone	3A
Winter dry bulb	16 deg. F
Summer dry bulb	92 deg. F
Interior Design Conditions	
Winter dry bulb	68 deg. F
Summer dry bulb	75 deg. F
Relative humidity	50 %
Building Heating Load	280 MBH
Building Cooling Load	23.5 TONS
Mechanical Spacing Conditioning System	
Unitary	(6) SPLIT SYSTEM HEAT PUMPS
Heating efficiency	80%
Cooling efficiency	14 SEER MN.
Size category of unit	>65,000 BTUHR.
Boiler	
Size category, If oversized, state reason.	N/A
Chiller	
Size category, If oversized, state reason.	N/A
List Equipment Efficiencies	
Equipment Schedules with Motors (mechanical systems)	
Motor horsepower	N/A
Number of phases	
Minimum efficiency	
Motor type	
# of poles	

OUTSIDE AIR / EXHAUST SUMMARY	
Per Table 403.3.1.1 NC Mechanical Code	
OUTSIDE AIR REQUIRED:	
<u>Classroom / Training</u>	
47 PEOPLE X 7.5 CFM / PERSON =	353 CFM
3,455 SQ. FT. X 0.06 CFM / SQ. FT. =	208 CFM
<u>Office Area</u>	
6 PEOPLE X 5 CFM / PERSON =	30 CFM
600 SQ. FT. X 0.06 CFM / SQ. FT. =	36 CFM
<u>Storage</u>	
7,000 SQ. FT. X 0.06 CFM / SQ. FT. =	420 CFM
TOTAL OUTSIDE AIR REQUIRED=	1,047 CFM
TOTAL OUTSIDE AIR PROVIDED=	1,300 CFM
EXHAUST AIR REQUIRED:	
<u>Office Toilets</u>	
4 FLUSHING FIXTURES @ 70 CFM / FLUSHING FIXTURE	280 CFM
TOTAL EXHAUST REQUIRED=	280 CFM
TOTAL EXHAUST PROVIDED=	300 CFM

Prepared for: **Wilson County Sheriffs Office**
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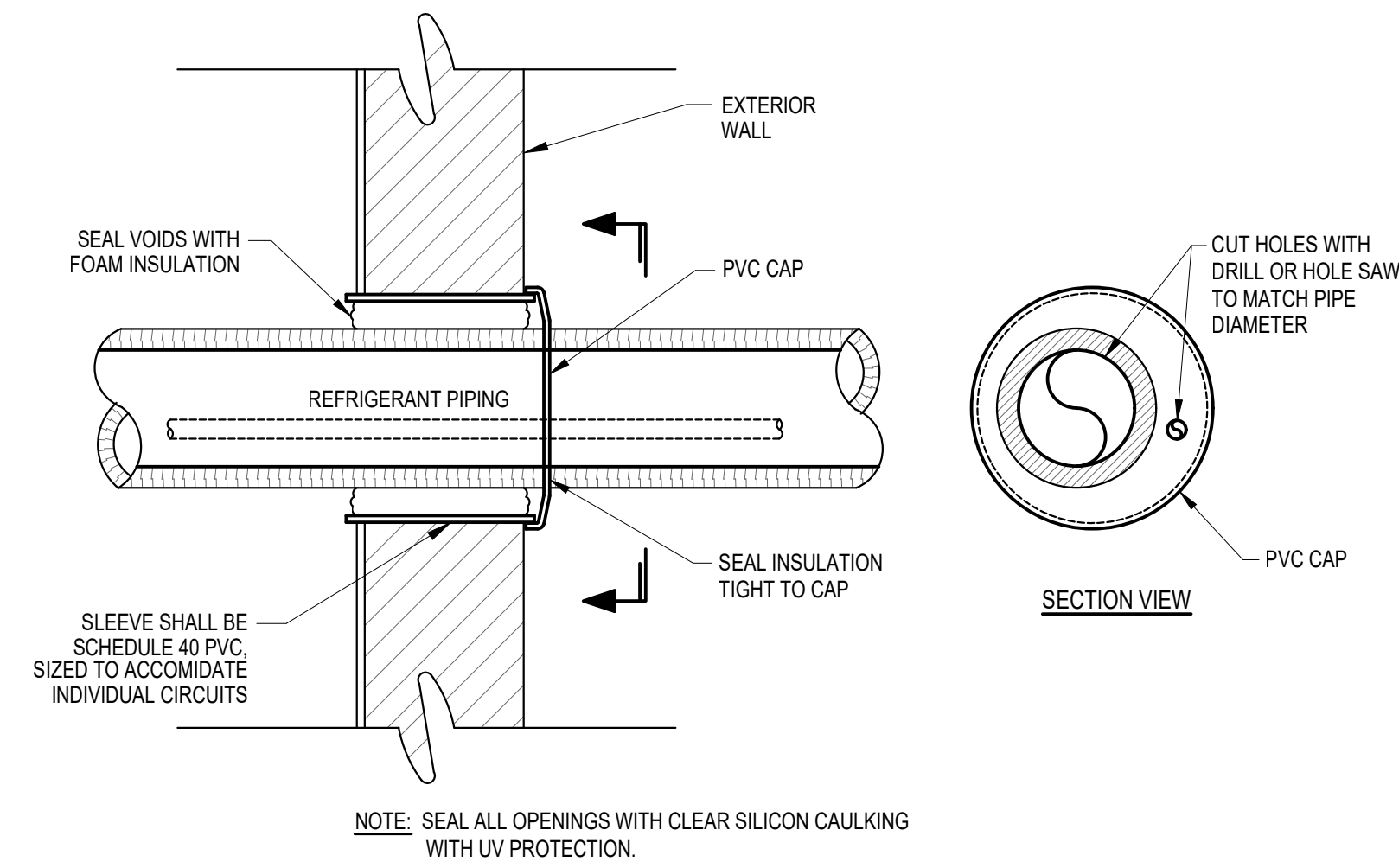
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MECHANICAL SCHEDULES

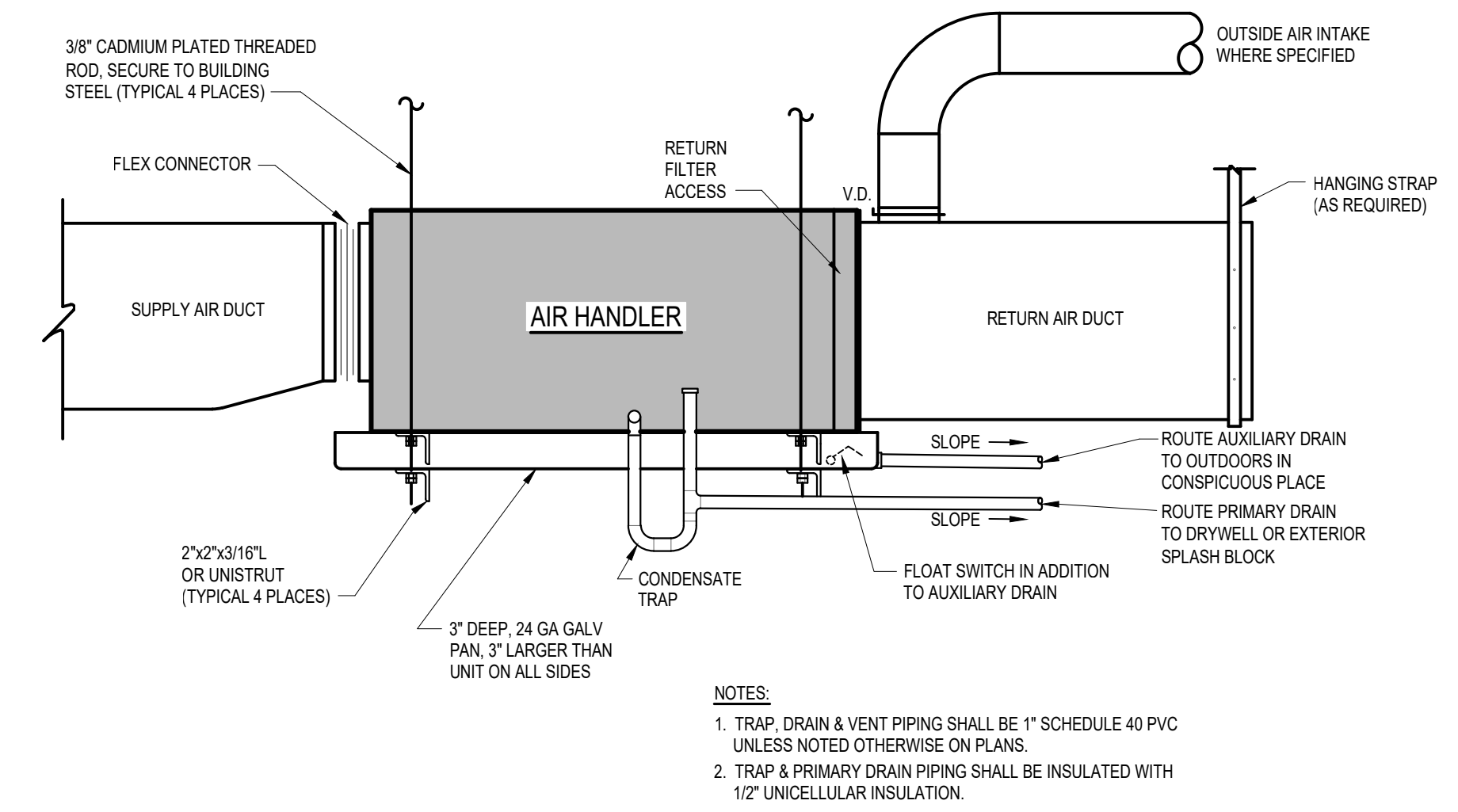
Project: **Wilson County Sheriffs Office Training Facility**
2764 Commercial Road Wilson, NC 27863

Title Sheet: _____
Rev: _____ Date: _____ Description: _____

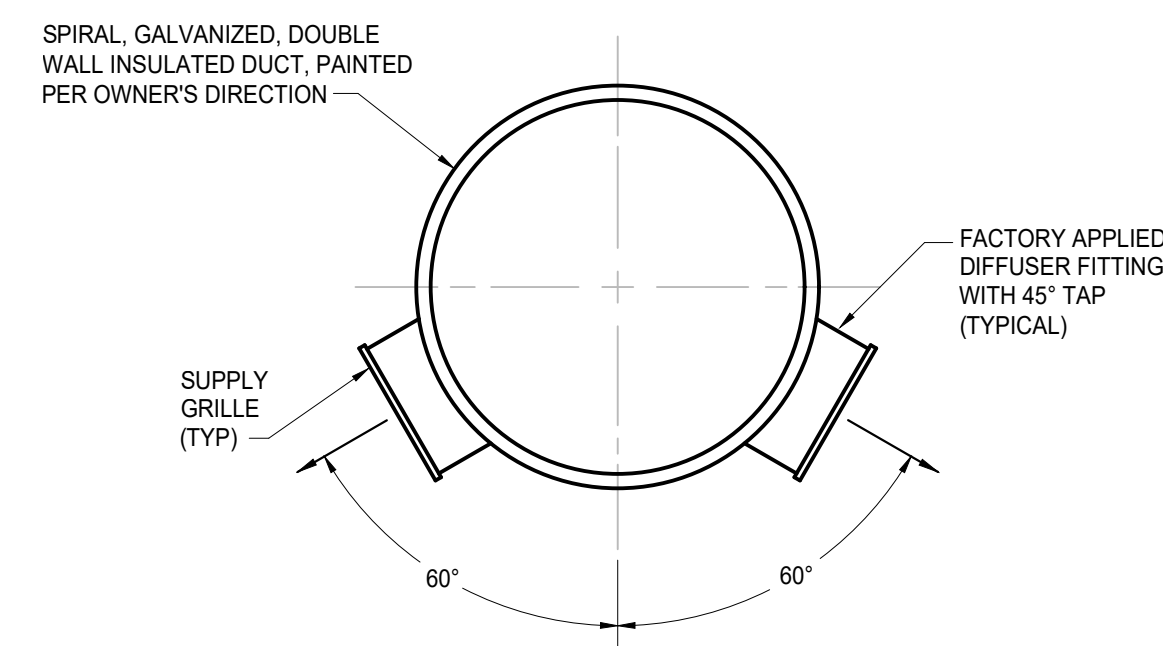
Drawn by: J. Thompson
Issue Date: 02-07-25
Project Number: 24-102
Sheet: **M-2**



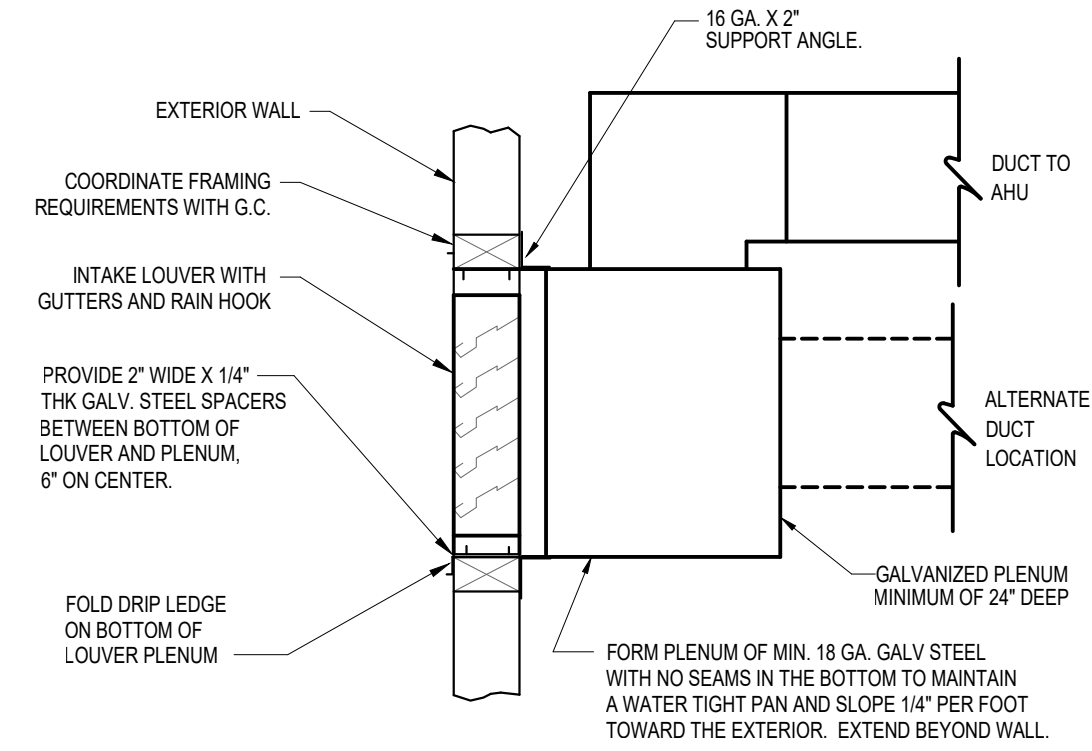
DETAIL-REFRIGERANT PIPE PENETRATION
NOT TO SCALE



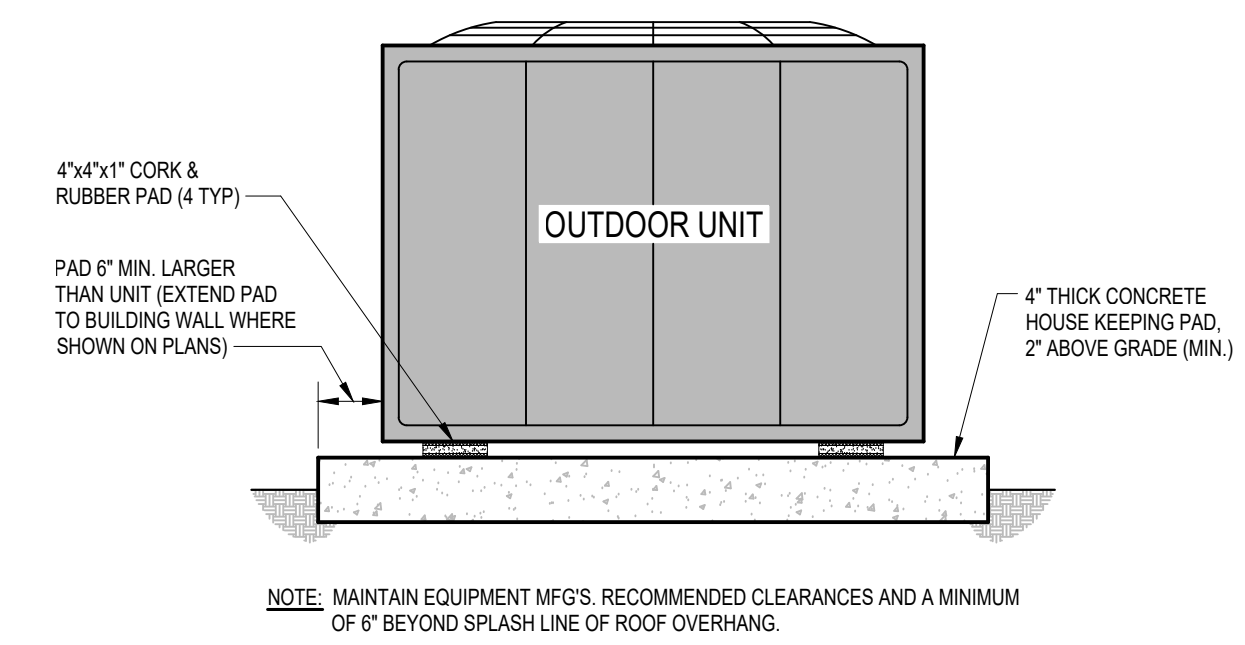
DETAIL- AIR HANDLER
NOT TO SCALE



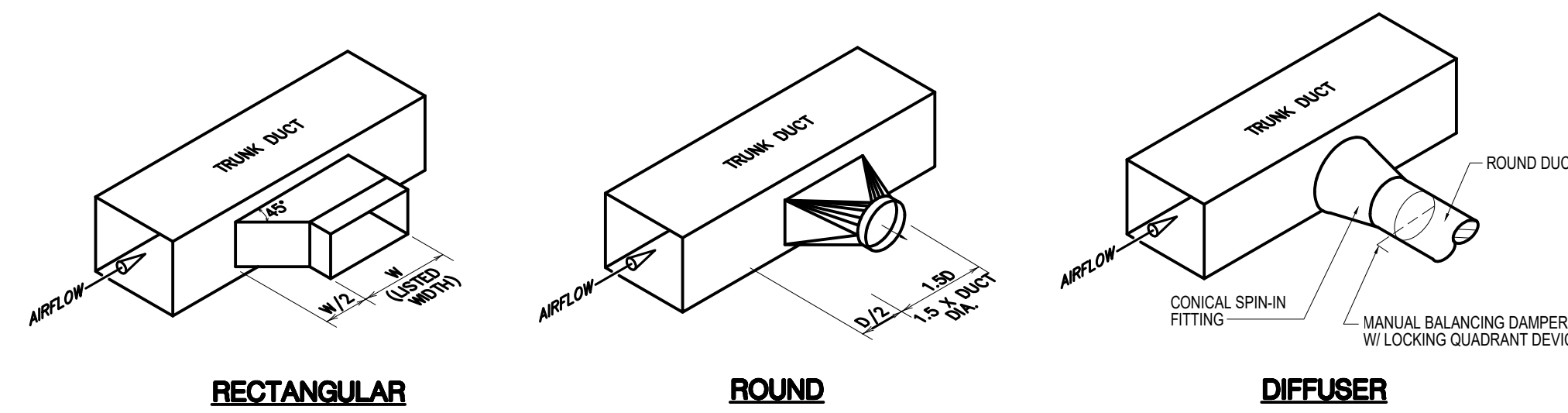
DETAIL - SIDEWALL SUPPLY AIR GRILLE
NOT TO SCALE



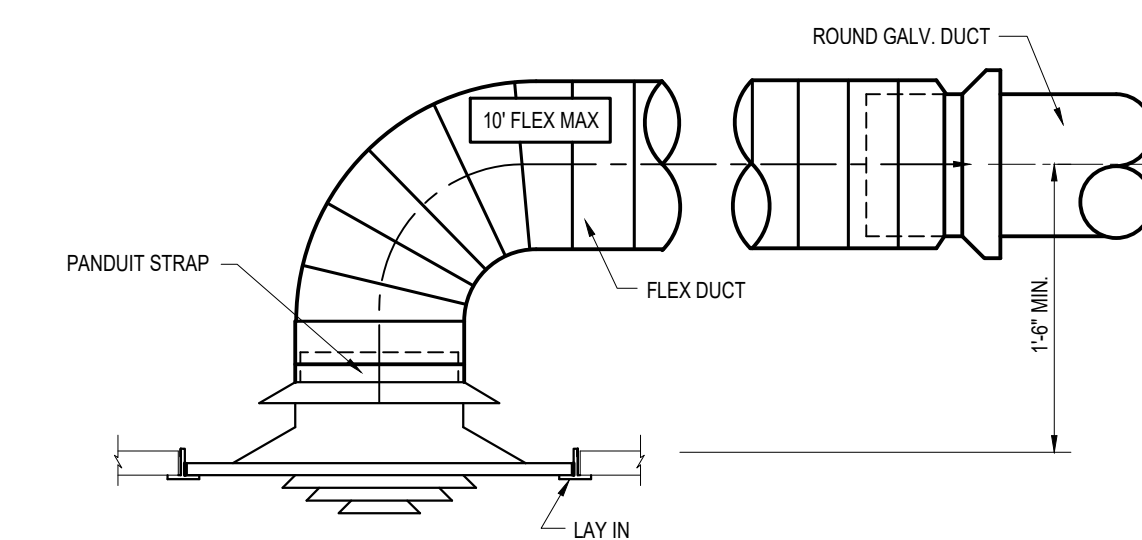
DETAIL-MAKE-UP AIR LOUVER
NOT TO SCALE



DETAIL-PAD MOUNTED OUTDOOR UNIT
NOT TO SCALE



DETAIL-LATERAL TO REGISTER OR BRANCH DUCT
NOT TO SCALE



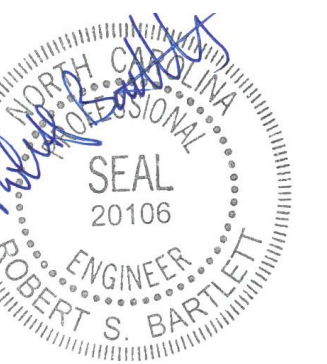
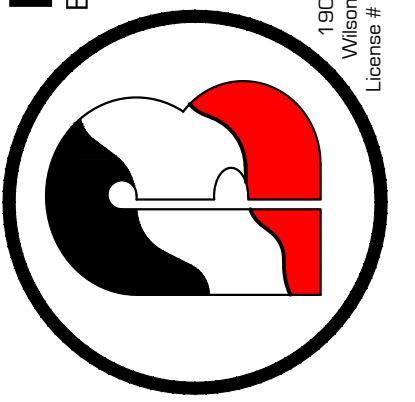
DETAIL-CEILING DIFFUSER CONNECTION
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Rev: Description: Date:

Title Sheet: MECHANICAL DETAILS

Project: Wilson County Sheriffs Office Training Facility
2764 Commercial Road Wilson, NC 27893

Drawn by: J. Thompson
Issue Date: 02-07-25
Project Number: 24-102
Sheet:

M-3

LIGHT FIXTURE SCHEDULE						
SYMBOL	MANUFACTURER	DESCRIPTION	LAMPS		MOUNTING	
			NO.	WATTS		
⊙	LITHONIA OR EQUAL	*"CR8" COMPACT PRO LED ROUND, DIMMABLE HIGH BAY FIXTURE. 120V. 21,000 - 27,000 SWITCHABLE LUMENS & 4,000K - 5,000K SWITCHABLE COLOR TEMP. PROVIDE & INSTALL WITH INTEGRATED 360° OCCUPANCY SENSOR	-	195	LED'S	SUSPENDED
⊙ NL	LITHONIA OR EQUAL	*"CR8" COMPACT PRO LED ROUND, DIMMABLE HIGH BAY FIXTURE. 120V. 21,000 - 27,000 SWITCHABLE LUMENS & 4,000K - 5,000K SWITCHABLE COLOR TEMP. NL FIXTURE - PROVIDE AND INSTALL WITH BATTERY BACKUP	-	195	LED'S	SUSPENDED
□	LITHONIA OR EQUAL	*"CPX" 2X4 LED LIGHTING PANEL WITH SATIN WHITE LENS. 120V. 5,000 LUMENS. 4,000K COLOR TEMP.	-	40	LED'S	LAY-IN
□ NL	LITHONIA OR EQUAL	*"CPX" 2X4 LED LIGHTING PANEL WITH SATIN WHITE LENS. 120V. 5,000 LUMENS. 4,000K COLOR TEMP. NL FIXTURE - PROVIDE AND INSTALL WITH BATTERY BACKUP	-	40	LED'S	LAY-IN
□	LITHONIA OR EQUAL	*"CPX" 2X2 LED LIGHTING PANEL WITH SATIN WHITE LENS. 120V. 4,000 LUMENS. 4,000K COLOR TEMP.	-	37	LED'S	LAY-IN
□ NL	LITHONIA OR EQUAL	*"CPX" 2X2 LED LIGHTING PANEL WITH SATIN WHITE LENS. 120V. 4,000 LUMENS. 4,000K COLOR TEMP. NL FIXTURE - PROVIDE AND INSTALL WITH BATTERY BACKUP	-	37	LED'S	LAY-IN
⊥	LITHONIA OR EQUAL	*"CONTEMPORARY SQUARE" 2 FT. LED VANITY LIGHT. 4,000K COLOR TEMP. 120V. 1,550 LUMENS	-	18	LED'S	WALL
○	HALO OR EQUAL	*"PR8" 8" COMMERCIAL, DIMMABLE LED CAN LIGHT. IC RATED. 1,500 LUMENS. 4,000K COLOR TEMP. 120V. EXTERIOR FIXTURES - SUITABLE FOR WET / DAMP LOCATION.	-	14	LED'S	RECESSED
—	LITHONIA OR EQUAL	*"ZL1" SERIES 4" LED STRIP WITH MEDIUM DIFFUSE CLEAR LENS. 120V. 6,000 LUMENS. 4,000K COLOR TEMP. SUITABLE FOR WET / DAMP LOCATION.	-	56	LED'S	SURFACE
⊕	LITHONIA OR EQUAL	LED EXTREMELY COMBO LIGHT WITH BATTERY BACKUP. 120V. DUAL REMOTE READY AT EXTERIOR DOORS	-	-	LED'S	CEILING/WALL
⊕ EM1	LITHONIA OR EQUAL	EMERGENCY LIGHT WITH BATTERY BACKUP. 120V	-	-	LED'S	WALL
⊕ EM2	LITHONIA OR EQUAL	REMOTE DUAL HEAD POWERED FROM EMERGENCY LIGHT BATTERY PACK WET/DAMP LOCATION. 120V	-	-	LED'S	WALL
⊕	LITHONIA OR EQUAL	*"TWPX1" "LED" WALL PACK. 2,700 LUMENS. 5,000K COLOR TEMP. SUITABLE FOR WET/DAMP LOCATION. 120V	-	22	LED'S	WALL
⊕	LITHONIA OR EQUAL	*"TWR1" SERIES LED WALL PACK SUITABLE FOR WET/DAMP LOCATION. 120V. 8,500 LUMENS. 5,000K COLOR TEMP.	-	59	LED'S	WALL
⊕	LITHONIA OR EQUAL	*"TFX3" EXTERIOR FLOOD LIGHT WITH YOKE MOUNT. 120V. 5,000K COLOR TEMP. 25,000 LUMEN OUTPUT. SEE DETAIL SHEET E-4	-	188	LED'S	CONC. BASE

NOTES:

NOTE (1) - FIXTURES SHALL HAVE DISCONNECTING MEANS MEETING THE REQUIREMENTS OF NEC ARTICLE 410.130(G)

NOTE (2) - COORDINATE ALL FIXTURE REQUIREMENTS, COLOR TEMP, CRI (COLOR RENDERING INDEX) ETC. WITH OWNER PRIOR TO INSTALLATION.

NOTE (3) - SHIFT LOCATIONS OF FIXTURES IN MECHANICAL AREAS IF AS REQUIRED TO BEST LIGHT SPACES & AVOID CONFLICTS WITH DUCTS, PIPING, ETC.

NOTE (4) - PROVIDE CHANNEL SUPPORTS WITH HANGER RODS, ETC. WHERE NECESSARY TO SUSPEND FIXTURES BENEATH DUCTWORK, PIPING, ETC.

NOTE (5) - PRIOR TO ORDERING OCCUPANCY SENSORS FOR INDICATED FIXTURES REVIEW MANUFACTURERS ORDERING INFORMATION WITH OWNER FOR APPROVAL.

GENERAL ELECTRICAL NOTES:

- WORK SHALL COMPLY WITH NATIONAL ELECTRICAL CODE (NEC) STATE BUILDING CODE, AND ALL REQUIREMENTS OF THE LOCAL INSPECTOR. ALL WORK SHALL BE BY LICENSED ELECTRICAL CONTRACTOR.
- ALL BRANCH CIRCUITS SHALL BE E.M.T., RIGID CONDUIT OR MC CABLE AS PERMITTED OR REQUIRED. RIGID CONDUIT SHALL BE USED FOR CIRCUITS UNDER SLAB ON GRADE, OR WHERE APPROVED SCHEDULE 80 PVC MAY BE USED. EXPOSED CONDUIT SHALL BE PAINTED PER OWNER'S DIRECTION.
- ALL CONDUCTORS SHALL BE COPPER.
- ALL EQUIPMENT LOADS SHALL BE VERIFIED BEFORE EQUIPMENT AND/OR CIRCUIT INSTALLATION. VERIFY LOCATION OF ALL RECEPTACLES, DATA / TELE. BOXES & TV OUTLETS WITH OWNER PRIOR TO INSTALLATION.
- PROVIDE GREEN GROUNDING CONDUCTOR CONTINUOUS FROM DEVICE TO PANEL GROUND BAR. PROVIDE DRIVEN GROUND ROD AND COLD WATER GROUND FOR MAIN SERVICE AND ALL POINTS PER N.E.C. REQUIREMENTS.
- EMT FITTINGS SHALL BE HEXAGONAL ALL STEEL, COMPRESSION TYPE.
- RECEPTACLES, SWITCHES & OCCUPANCY SENSORS SHALL BE COMMERCIAL GRADE BRYANT, SIERRA, LEVITON BRAND EXCEPT AS SPECIFIED.
- ALL WALL OUTLET BOXES SHALL BE STEEL CITY OR RACO WITH PLATES.
- ALL CIRCUITS SHALL BE TESTED WITH 500 VOLT TESTER PRIOR TO ENERGIZING.
- ELECTRICAL CONTRACTOR SHALL CONNECT TO TERMINALS OF MECHANICAL EQUIPMENT AND EQUIPMENT SUPPLIED BY OWNER.
- EXHAUST FANS & DUCTWORK BY MECHANICAL CONTRACTOR. WIRING FOR EXHAUST FANS BY ELECTRICAL CONTRACTOR.
- MOUNTING HEIGHTS FOR ALL SWITCHES & RECEPTACLES TO BE ADA COMPLIANT PER ANSI A117.1.
- FIRE STOP ALL PENETRATIONS THRU RATED WALLS, FLOORS & CEILINGS. SEE "B" SHEETS FOR EXACT LOCATION, CONDITIONS & REQUIREMENTS.

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT:

Method of Compliance:

- Prescriptive (Energy Code) Prescriptive (ASHRAE 90.1)
 Performance (Energy Code) Performance (ASHRAE 90.1)

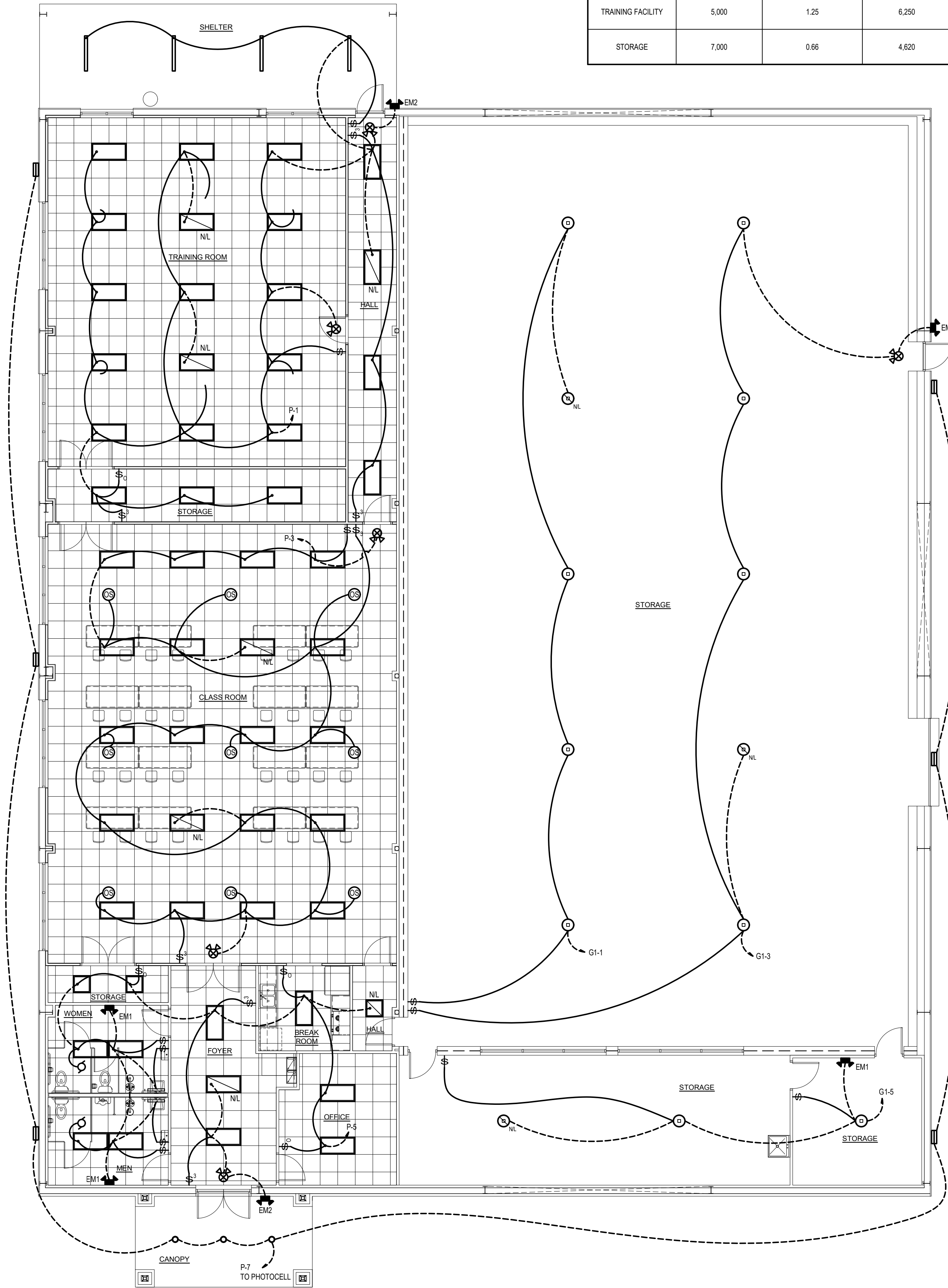
Lighting Schedule

Lamp type required in fixture _____ THIS SHEET
 Number of lamps in fixture _____
 Ballast type used in fixture _____
 Number of ballasts in fixture _____
 Total wattage per fixture _____
 Total interior wattage specified -vs- allowed _____
 Total exterior wattage specified -vs- allowed _____

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 Systems

LIGHTING DATA FOR N.C. ENERGY CODE					
AREA USE	SQ. FT.	WATTS PER SQ.FT. ALLOWED	TOTAL WATTS ALLOWED	TOTAL WATTS USED	TOTAL WATTS LEFT OVER
TRAINING FACILITY	5,000	1.25	6,250	2,774	3,476
STORAGE	7,000	0.66	4,620	2,536	2,084

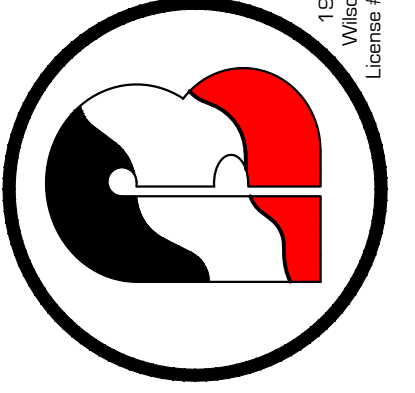


ELECTRICAL - LIGHTING PLAN
 SCALE 1/8" = 1'-0"

RATED WALL LEGEND	
SYMBOL	DESCRIPTION
---	2 HR. RATED WALL. SEE "B" SHEETS FOR DETAILS

Prepared for:
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Rev.	Date:	Description:

Project:
Wilson County Sheriff's Office
Training Facility
 2764 Commercial Road
 Wilson, NC 27868

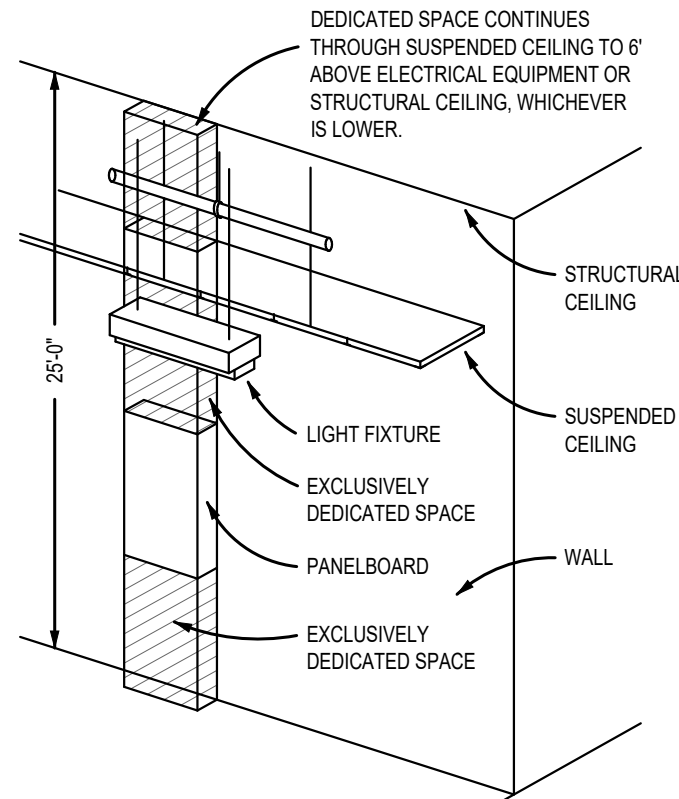
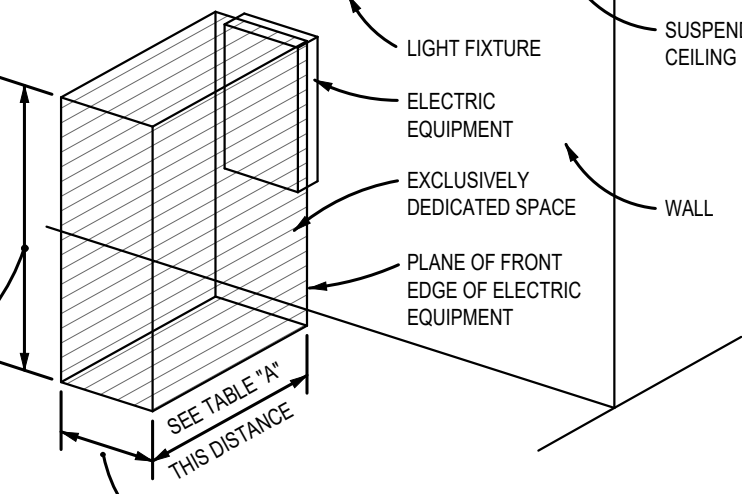
Drawn by: J. Thompson
 Issue Date: 02-07-25
 Project Number: 24-102
 Sheet:

VOLTAGE TO GROUND (NOMINAL)	CONDITION		
	1	2	3
0-150	3'	3'	3'
151-600	3'	3 1/2'	4'

WHERE THE "CONDITIONS" ARE AS FOLLOWS:

1. EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300 VOLTS SHALL NOT BE CONSIDERED LIVE PARTS.
2. EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
3. EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

6 1/2" MINIMUM OR HEIGHT OF EQUIPMENT



NOTES:

1. THIS FIGURE ILLUSTRATES THE ADDITIONAL EXCLUSIVELY DEDICATED SPACE REQUIRED OVER AND UNDER PANELBOARDS FOR CABLES, RACEWAYS, ETC. TO AND FROM PANELBOARDS REQUIRED BY NEC SECTION 110-26.
2. NO PIPING, DUCTWORK OR EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH THE DEDICATED SPACES SHOWN. FOR EXCEPTIONS SEE NEC SECTION 110-26f.

NOTES:

1. THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF ELECTRICAL EQUIPMENT REQUIRED BY NEC SECTION 110-26.
2. THIS INCLUDES BUT IS NOT LIMITED TO PANELBOARDS, SAFETY SWITCHES, MOTOR STARTERS, JUNCTION BOXES AND OTHER ELECTRICAL EQUIPMENT.

ALL ELECTRIC EQUIPMENT

PANELBOARDS

DEDICATED WORKING SPACE REQUIREMENTS NO SCALE

ELECTRICAL LEGEND

MARK	DESCRIPTION	MARK	DESCRIPTION
	"LED" LIGHT FIXTURE (WALL/CEIL)		DUPLEX RECEPTACLE 42" AFF
	"LED" LIGHT FIXTURE		208V RECEPTACLE
	"LED" UNSWITCHED LIGHT FIXT. WITH BATTERY STANDBY (SECURITY/ EMERGENCY LT.)		"GFCI" DUPLEX RECEPTACLE
	"LED" COMBO EXIT/EM. LIGHT		"GFCI" DUPLEX RECEPTACLE IN WEATHER-PROOF COVER
	"LED" BATTERY OPERATED EMERG. LT. (2-HEAD, WALL MTD.)		DISCONNECT SWITCH
	SINGLE-POLE SWITCH		EXHAUST FAN
	3-WAY SWITCH (4-WAY)		SWITCHED BRANCH CIRCUIT
	PASSIVE DUAL TECHNOLOGY OCCUPANCY WALL SENSOR SWITCH		UNSWITCHED BRANCH CIRCUIT
	DUPLEX RECEPTACLE		HOMERUN
	DUPLEX RECEPTACLE ABOVE COUNTER		VOICE/DATA 1" CONDUIT TO ABV. CEILING
	COMBINATION DUPLEX & TELE./DATA FLOOR BOX WITH HEAVY DUTY COVER. FLUSH MTD.		JUNCTION BOX
	MULTI-TECHNOLOGY CEILING OCCUPANCY SENSOR. 1,000 SF COVERAGE MIN.		TV OUTLET

- (1) 1" CONDUIT & WIRE TO HOTBOX
 - (2) 1" CONDUITS & WIRE TO PULL BOX AT WATER FEATURES (ALT #2)
3/4" & 1-1/4" (2.87% VOLTAGE DROP)
 - (1) 1" CONDUIT AND WIRE TO FLAGPOLE
 - (2) 1" CONDUITS AND WIRE TO PARKING LOT LIGHTS
 - (1) 1" CONDUITS AND WIRE TO REAR POLE LIGHTS & RECEPT (ALT #1 & ALT #2)
3/4" & 1-1/4" (1.99% VOLTAGE DROP)
 - (2) 1" CONDUITS FOR FUTURE
- NOTE: SEE SITE PLAN FOR LOCATIONS

NOTE: SEE SITE PLAN FOR LOCATIONS

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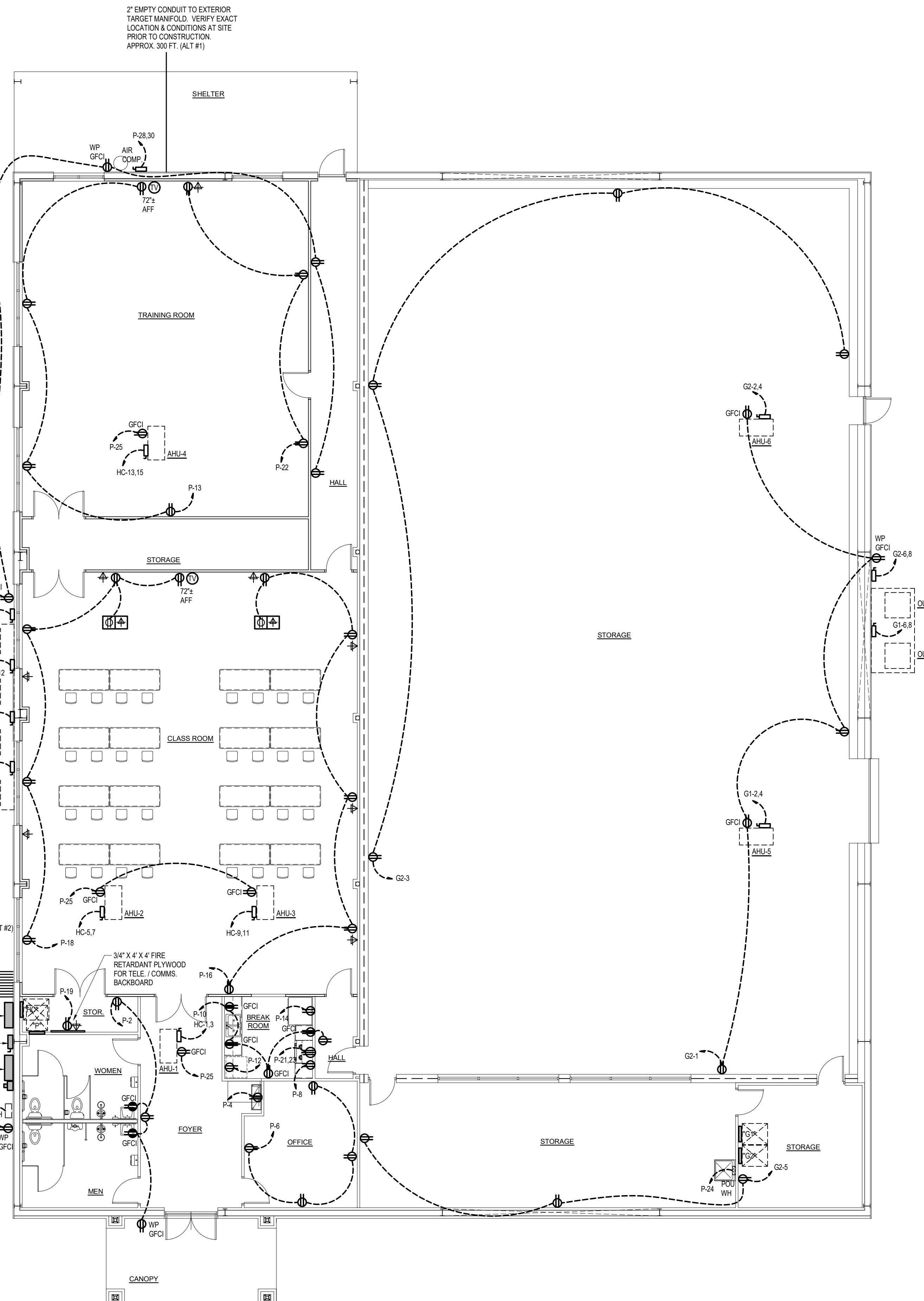
NOTE: SEE SITE PLAN FOR LOCATIONS

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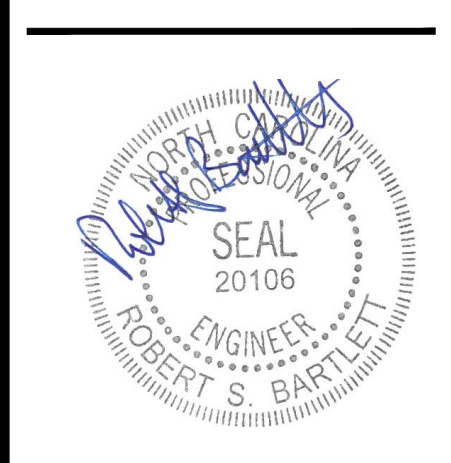
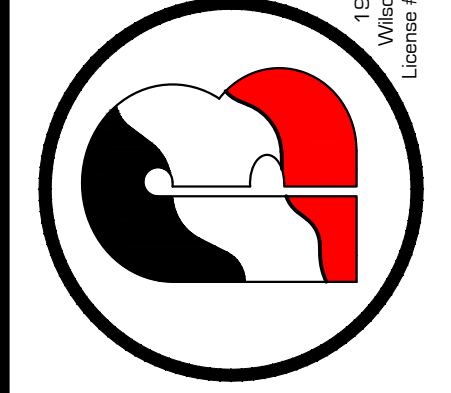


ELECTRICAL - POWER PLAN SCALE 1/8" = 1'-0"

SYMBOL	DESCRIPTION
	2 HR. RATED WALL. SEE "B" SHEETS FOR DETAILS

Wilson County Sheriff's Office
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Rev. Description:
Date:
PE Seal:

Rev.	Description:	Date:

Project: **Wilson County Sheriff's Office Training Facility**
2764 Commercial Road Wilson, NC 27893

Drawn by: J. Thompson
Issue Date: 02-07-25
Project Number: 24-102
Sheet:

PANEL: HC			MTD: FLUSH			TYPE: "SQ-D"								
VOLTS: 120/208			PHASE: 3			WIRE: 4								
400 AMP MLO			10K AIC											
L1	L2	L3	CIRCUIT	POLES	TRIP	ASSIGNMENT	PHASE	ASSIGNMENT	TRIP	POLES	CIRCUIT	L1	L2	L3
			1	2	40	AHU-1	○	OU-1		25	2	2		
40			3	2	40		○			4			15	
	48		5	2	50	AHU-2	○	OU-2		30	2	6		18
	48		7	1	20		○			8	18			
48			9	2	50	AHU-3	○	OU-3		40	2	10		24
	48		11	1	20		○			12				24
53			13	3	60	AHU-4	○	SPARE		20	1	14	X	
	53		15	1	20		○	OU-4		50	2	16		32
	X		17	1	20	SPARE	○			18				32
15			19	2	25	WATER FEATURE (SEE SITE PLAN)	○	SPACE		20	X			
	15		21	2	25		○	SPACE		22		X		
	X		23	2	25	WATER FEATURE (SEE SITE PLAN)	○	SPACE		24			X	
15			25				○	SPACE		26	X			
	X		27			SPACE	○	SPACE		28		X		
	X		29			SPACE	○	SPACE		30			X	
X			31			SPACE	○	SPACE		32	X			
	X		33			SPACE	○	SPACE		34		X		
	X		35			SPACE	○	SPACE		36			X	
X			37			SPACE	○	SPACE		38	X			
	X		39			SPACE	○	SPACE		40		X		
	X		41			SPACE	○	SPACE		42			X	
171.0	156.0	111.0	TOTAL			L1 TOTAL - 204.0 AMPS L2 TOTAL - 227.0 AMPS L3 TOTAL - 185.0 AMPS			220.7 AMPS	TOTAL	33.0	71.0	74.0	

PANEL: G1			MTD: SURFACE			TYPE: "SQ-D"								
VOLTS: 120/208			PHASE: 3			WIRE: 4								
225 AMP MLO			10K AIC											
L1	L2	L3	CIRCUIT	POLES	TRIP	ASSIGNMENT	PHASE	ASSIGNMENT	TRIP	POLES	CIRCUIT	L1	L2	L3
8.2			1	1	20	LIGHTS	○	AHU-5		60	2	2	53	
	8.2		3	1	20	LIGHTS	○			4			53	
		4.9	5	1	20	LIGHTS	○	OU-5		50	2	6		32
X			7	1	20	SPARE	○			8	32			
	X		9	1	20	SPARE	○	SPARE		20	1	10		X
	X		11	1	20	SPARE	○	SPARE		20	1	12		X
	X		13			SPACE	○	SPACE				X		
	X		15			SPACE	○	SPACE				X		
	X	X	17			SPACE	○	SPACE				X	X	
X			19			SPACE	○	SPACE				X		
	X		21			SPACE	○	SPACE				X		
	X	X	23			SPACE	○	SPACE				X	X	
X			25			SPACE	○	SPACE				X		
	X		27			SPACE	○	SPACE				X		
	X	X	29			SPACE	○	SPACE				X	X	
X			31			SPACE	○	SPACE				X		
	X		33			SPACE	○	SPACE				X		
	X	X	35			SPACE	○	SPACE				X	X	
X			37			SPACE	○	SPACE				X		
	X		39			SPACE	○	SPACE				X		
	X	X	41			SPACE	○	SPACE				X	X	
8.2	8.2	4.9	TOTAL			L1 TOTAL - 93.2 AMPS L2 TOTAL - 61.2 AMPS L3 TOTAL - 36.9 AMPS			63.8 AMPS	TOTAL	85.0	53.0	32.0	

PANEL: P			MTD: FLUSH			TYPE: "SQ-D"								
VOLTS: 120/208			PHASE: 3			WIRE: 4								
225 AMP MLO			10K AIC											
L1	L2	L3	CIRCUIT	POLES	TRIP	ASSIGNMENT	PHASE	ASSIGNMENT	TRIP	POLES	CIRCUIT	L1	L2	L3
11.3			1	1	20	LIGHTS	○	RECEPT.		20	1	2	7.5	
	8.4		3	1	20	LIGHTS	○	EWC "GFCI"		20	1	4		6
		7.3	5	1	20	LIGHTS	○	RECEPT.		20	1	6		6
5.6			7	1	20	LIGHTS	○	MICROWAVE / HOOD EXH. "GFCI"		20	1	8	15	
	2		9	1	20	GAS WATER HEATER	○	RECEPT.		20	1	10		7.5
	1.4		11	1	20	CIRC. PUMP	○	REF. "GFCI"		20	1	12		10
6			13	1	20	RECEPT.	○	VENDING "GFCI"		20	1	14	5	
	1.6		15	1	20	FLAG POLE LIGHT	○	RECEPT.		20	1	16		9
		5	17	1	20	HOT BOX	○	RECEPT.		20	1	18		9
5			19	1	20	TELE. / COMMS. BACKBOARD	○	RECEPT.		20	1	20	6	
	30		21	2	50	RANGE "GFCI"	○	RECEPT.		20	1	22		4.5
		30	23				○	POU WATER HEATER		30	1	24		29
6			25	1	20	RECEPT.	○	SPARE		20	1	26	X	
	10		27	1	20	PARKING LOT POLE LIGHTS	○	AIR COMPRESSOR		50	2	28		35
	10		29	1	20	PARKING LOT POLE LIGHTS	○			30				35
6.5			31	1	20	REAR POLE LGTS. & RECEPT.	○	SPACE		32	X			
	6.5		33	1	20	REAR POLE LGTS. & RECEPT.	○	SPACE		34		X		
		X	35			SPACE	○	SPACE		36			X	
X			37			SPACE	○	SPACE		38	X			
	X		39			SPACE	○	SPACE		40		X		
	X	X	41			SPACE	○	SPACE		42			X	
40.4	58.5	53.7	TOTAL			L1 TOTAL - 73.9 AMPS L2 TOTAL - 120.5 AMPS L3 TOTAL - 142.7 AMPS			112.4 AMPS	TOTAL	33.5	62.0	89.0	

PANEL: G2			MTD: SURFACE			TYPE: "SQ-D"								
VOLTS: 120/208			PHASE: 3			WIRE: 4								
225 AMP MLO			10K AIC											
L1	L2	L3	CIRCUIT	POLES	TRIP	ASSIGNMENT	PHASE	ASSIGNMENT	TRIP	POLES	CIRCUIT	L1	L2	L3
7.5			1	1	20	RECEPT.	○	AHU-6		60	2	2	53	
	6		3	1	20	RECEPT.	○			4			53	
		4.5	5	1	20	RECEPT.	○	OU-6		50	2	6		32
X			7	1	20	SPARE	○			8	32			
	X		9	1	20	SPARE	○	SPARE		20	1	10		X
	X		11	1	20	SPARE	○	SPARE		20	1	12		X
X			13			SPACE	○	SPACE				X		
	X		15			SPACE	○	SPACE				X		
	X	X	17			SPACE	○	SPACE				X	X	
X			19			SPACE	○	SPACE				X		
	X		21			SPACE	○	SPACE				X		
	X	X	23			SPACE	○	SPACE				X	X	
X			25			SPACE	○	SPACE				X		
	X		27			SPACE	○	SPACE				X		
	X	X	29			SPACE	○	SPACE				X	X	
X			31			SPACE	○	SPACE				X		
	X		33			SPACE	○	SPACE				X		
	X	X	35			SPACE	○	SPACE				X	X	
X			37			SPACE	○	SPACE				X		
	X		39			SPACE	○	SPACE				X		
	X	X	41			SPACE	○	SPACE				X	X	
7.5	6.0	4.5	TOTAL			L1 TOTAL - 92.5 AMPS L2 TOTAL - 89.0 AMPS L3 TOTAL - 36.5 AMPS			62.7 AMPS	TOTAL	85.0	53.0	32.0	

PANEL: MDP			MTD: SURFACE			TYPE: "SQ-D"								
VOLTS: 120/208			PHASE: 3			WIRE: 4								
800 AMP MLO			NEMA 3R			22K AIC								
L1	L2	L3	CIRCUIT	POLES	TRIP	ASSIGNMENT	PHASE	ASSIGNMENT	TRIP	POLES	CIRCUIT	L1	L2	L3
73.9			1	3	200	PANEL "P"	○	PANEL "HC"		400	3	2	204	
	120.5		3				○			4			227	
		142.7	5				○			6			185	
93.5			7	3	200	PANEL "G1"	○	PANEL "G2"		200	3	8	92.5	
	61.2		9				○			10			59.0	
		36.9	11				○			12			36.5	
X			13			SPACE	○	SPACE		14	X			
	X		15				○			16		X		
		X	17				○			18			X	
167.4	181.7	179.6	TOTAL			L1 TOTAL - 463.9 AMPS L2 TOTAL - 467.7 AMPS L3 TOTAL - 401.1 AMPS			444.3 AMPS	TOTAL	296.5	286.0	221.5	

ELECTRICAL LOAD SUMMARY			
LOAD	DEMAND	DIVERSITY FACTOR	TOTAL DEMAND
LIGHTING	10.62 KW	125%	13.28 KW
RECEPTACLES	15.23 KW	10 KW + (50% of 5.23 KW)	12.62 KW
RANGE	7.20 KW	80%	5.76 KW
WATER HEATERS	3.88 KW	100%	3.88 KW
HVAC	93.18 KW	100%	93.18 KW
AIR COMPRESSOR	7.28 KW	125%	9.10 KW
WATER FEATURES	6.24 KW	125%	6.24 KW
FUTURE - PER OWNER	100.00 KW	100%	100.00 KW
TOTAL - 244.06 KW			
@ 208V 3Ø = 678 AMPS			
800 AMP ELECTRICAL SERVICE			

Wilson County Sheriffs Office
 PO Box 1666 100 E. Green St. Wilson, NC
 Office: 252.237.2118 Fax: 252.939.2871

Prepared for:

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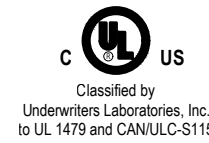
FE Seal

Rev.	Date	Description

Title Sheet: ELECTRICAL PANEL SCHEDULES

Project: Wilson County Sheriffs Office Training Facility
 2764 Commercial Road Wilson, NC 27898

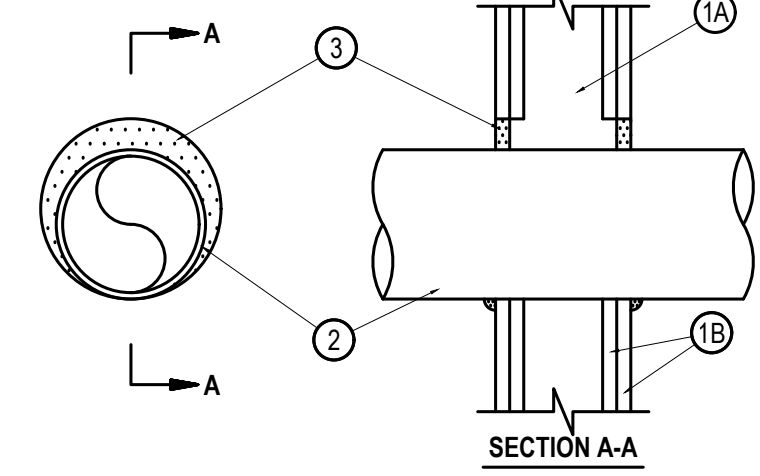
Drawn by: J. Thompson
 Issue Date: 02-07-25
 Project Number: 24-102
 Sheet: **E-3**



Classified by
Underwriters Laboratories, Inc.
in UL 1479 and CANULC S115

System No. W-L-1054

ANSI/UL1479 (ASTM E814)	CANULC S115
F Ratings — 1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Items 1 and 3)
L Rating at 400 F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 1 CFM/sq ft
	L Rating at 400 F — Less Than 1 CFM/sq ft



1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.

B. Gypsum Board — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls. The F and FH Ratings of the freestop system are equal to the fire rating of the wall assembly.

2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the freestop system. The annular space shall be min 0 in. to max 2-1/4 in. (67 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe — Nom 3/8 in. (76 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe — Nom 3/8 in. (76 mm) diam (or smaller) cast or ductile iron pipe.

C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) diam steel conduit.

D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.

3. Fill, Void or Cavity Material — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

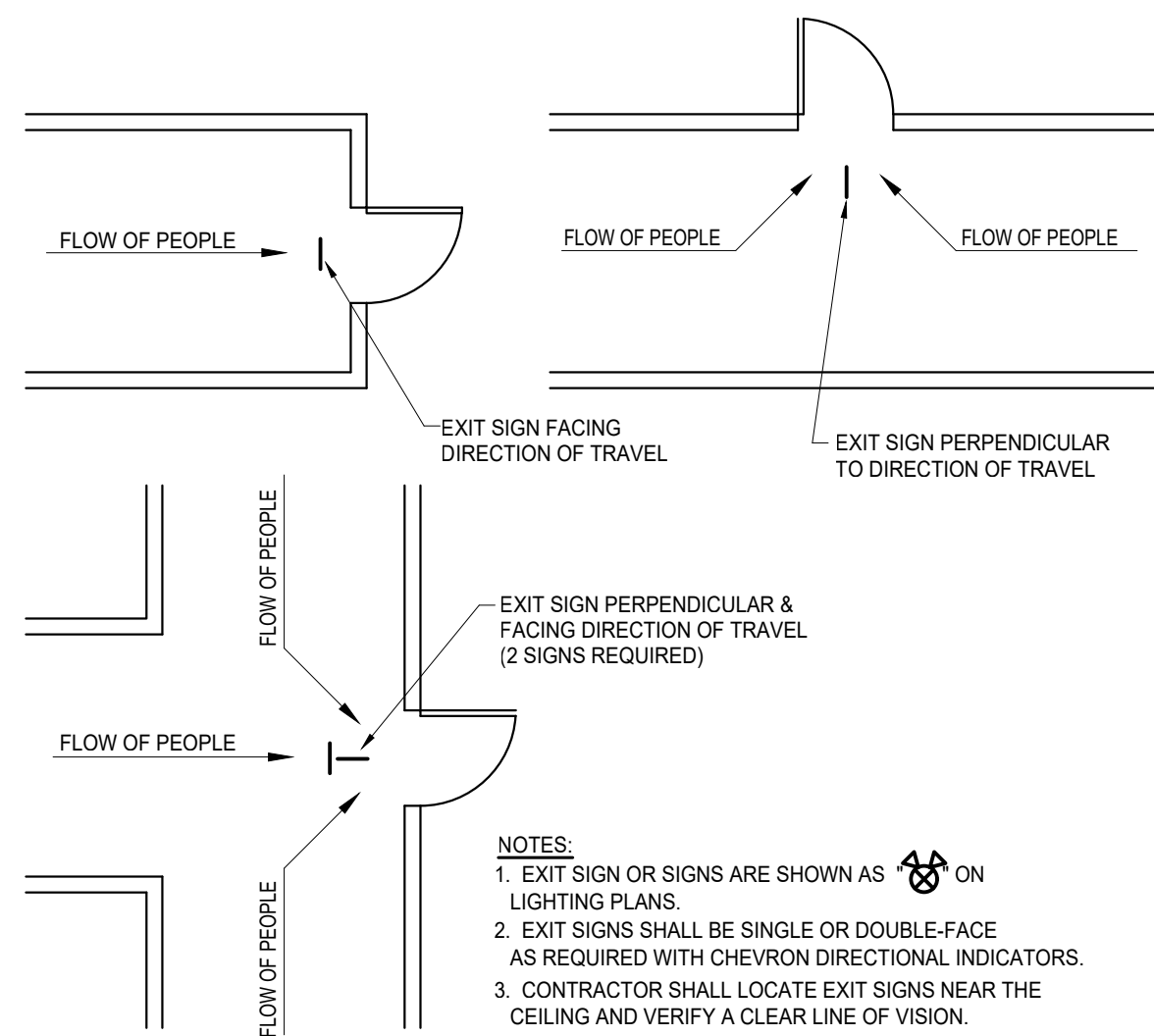
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



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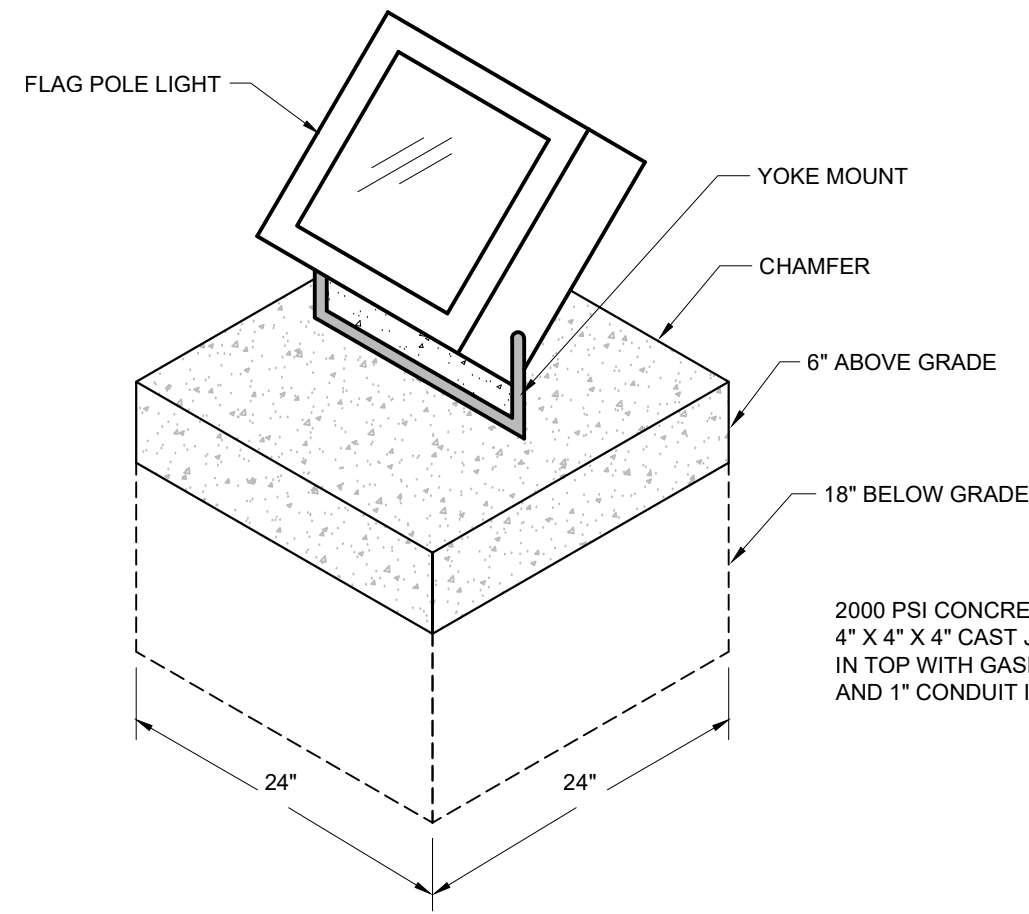
DETAIL - RATED WALL PENETRATION
NO SCALE

NOTE: SEE "B" SHEETS FOR RATED WALL LOCATIONS & DETAILS.



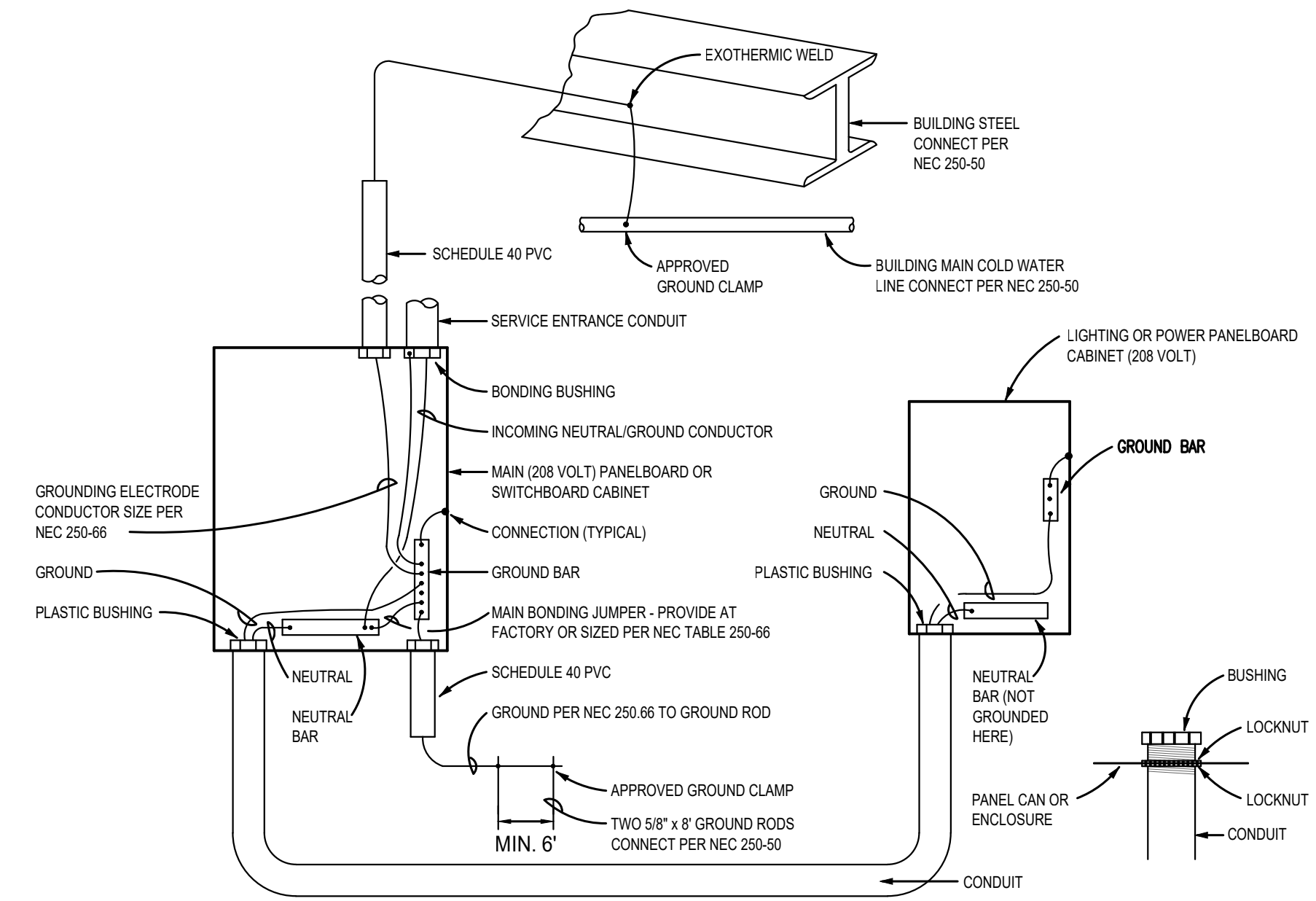
NOTES:
1. EXIT SIGN OR SIGNS ARE SHOWN AS ON LIGHTING PLANS.
2. EXIT SIGNS SHALL BE SINGLE OR DOUBLE-FACE AS REQUIRED WITH CHEVRON DIRECTIONAL INDICATORS.
3. CONTRACTOR SHALL LOCATE EXIT SIGNS NEAR THE CEILING AND VERIFY A CLEAR LINE OF VISION.

LOCATIONS OF EXIT SIGNS
NO SCALE



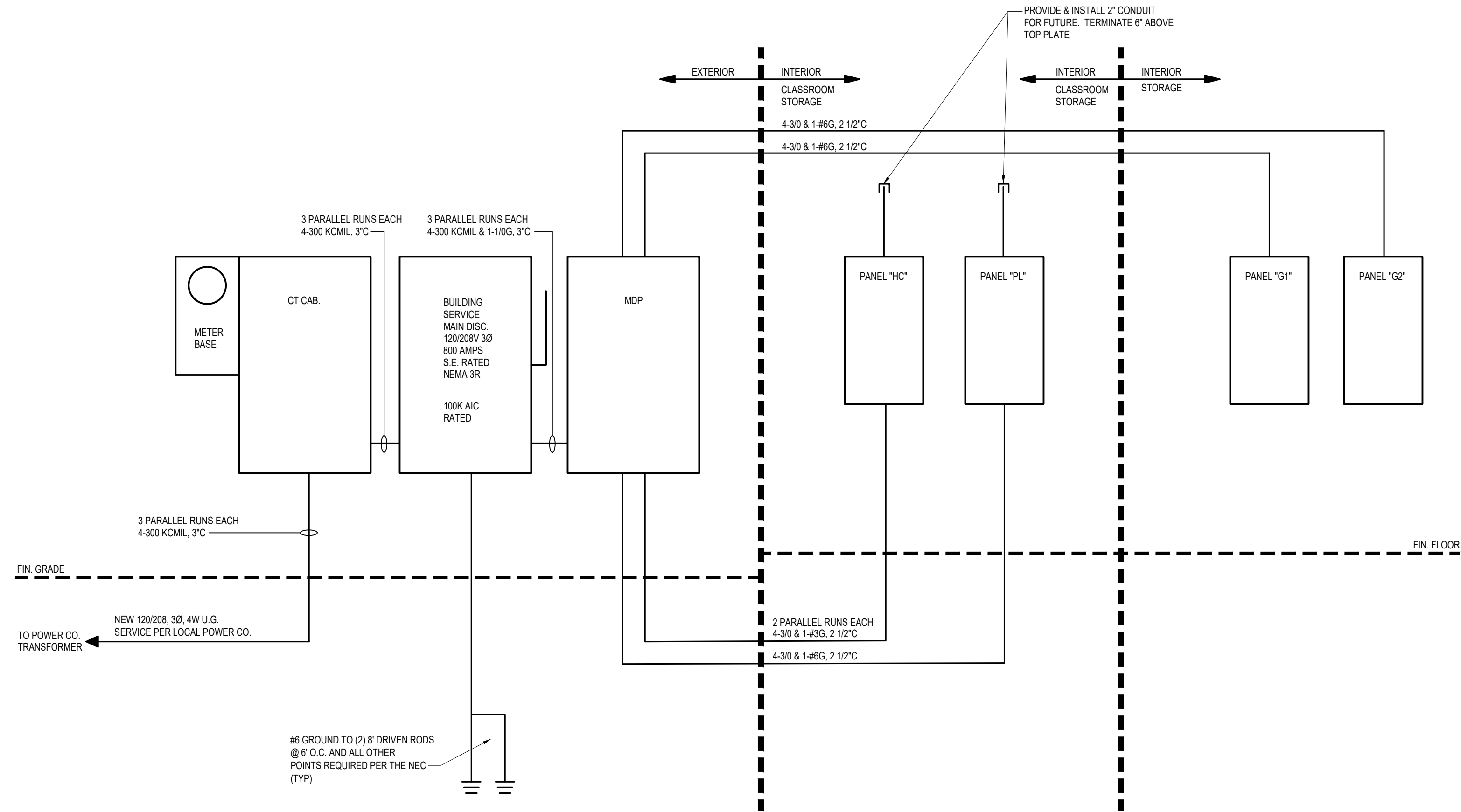
DETAIL-GROUND MOUNTED FLAGPOLE LIGHT
NOT TO SCALE

NOTE: MOUNT LIGHT PER MANUFACTURER'S INSTRUCTIONS



NOTES:
1. GROUNDING ELECTRODE CONDUCTOR SHALL BE RUN CONTINUOUSLY (UNBROKEN) FROM COLD WATER LINE AND/OR BUILDING STEEL AND GROUND ROD TO GROUND BAR BEFORE BONDING TO ANY CONDUIT BUSHING.
2. ALL THE FOLLOWING GROUNDING ELECTRODES THAT ARE PRESENT SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM PER NEC 250.52:
2.1. METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH EARTH FOR 10 FT OR MORE.
2.2. METAL FRAME OF THE BUILDING.
2.3. ANY ELECTRODE ENCASED BY AT LEAST 2 IN. OF CONCRETE, CONSISTING OF 20 FT OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS NOT LESS THAN 1/2" IN DIAMETER.
2.4. GROUND RING ENCIrcLING THE BUILDING.
2.5. ROD AND PIPE ELECTRODES NOT LESS THAN 8 FT.
2.6. PLATE ELECTRODES

TYPICAL BONDING & GROUNDING DIAGRAM
NO SCALE

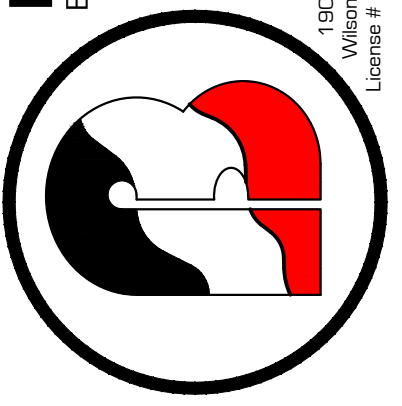


ELECTRICAL RISER DIAGRAM
NO SCALE

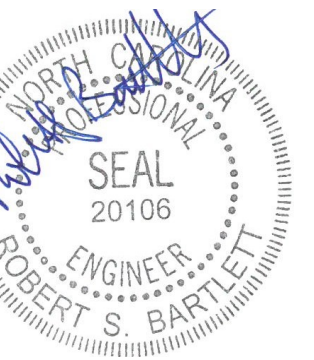
NOTES:
1. AIC RATINGS SHALL BE VERIFIED AND PROPER PLAQUES APPLIED PRIOR TO ENERGIZING.
2. ELECTRICAL CONTRACTOR SHALL LABEL UTILITY AVAILABLE FAULT CURRENT AND DATE PER NEC.
3. VERIFY EXACT ELECTRICAL SERVICE REQUIREMENTS WITH LOCAL UTILITY PRIOR TO ORDERING ELECTRICAL GEAR.

Prepared for:

BARTLETT
ENGINEERING & SURVEYING, PC



1905 N. South Street, North
Wilson, NC 27785-1726
Customer # C-101



FE Seal

Rev. Description: Date:

Title Sheet: ELECTRICAL RISER & DETAILS

Project: **Wilson County Sheriffs Office Training Facility**
2764 Commercial Road
Wilson, NC 27789

Drawn by: J. Thompson
Issue Date: 02-07-25
Project Number: 24-102
Sheet: