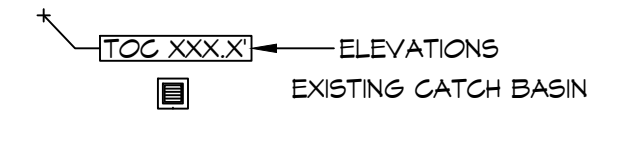


DRAINAGE NOTES

- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, TRANSPORTATION, SUPERVISION, CLEAN-UP, SERVICES, AND EQUIPMENT FOR A COMPLETE OPERATING SYSTEM.
- PROVIDE POSITIVE DRAINAGE AWAY FROM BLDG AND SHALL SLOPE TOWARDS EXISTING DITCHES AND CULVERTS.

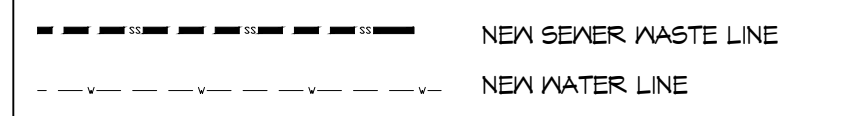
DRAINAGE LEGEND



GENERAL SITE NOTES

- PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT FOR A COMPLETE OPERATING SYSTEM. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING UTILITY LOCATIONS, ELEVATIONS, AND INVERTS PRIOR TO COMMENCING ANY WORK. CONTRACTOR SHALL PAY NECESSARY FEES FOR THE UTILITIES CONNECTIONS.
- CONTRACTOR TO BE RESPONSIBLE TO VERIFY ANY INVERTS AND SET NEW INVERTS OF SEWAGE AND DRAINAGE PIPES.
- ALL WORK AND MATERIAL TO COMPLY STRICTLY TO THE LATEST LOCAL CITY PARISH, STATE, AND NATIONAL GOVERNING CODES.
- SEWAGE LINES 3" AND SMALLER SHALL BE SLOPED 1/4" PER FOOT AND LINES THAT ARE 4" AND LARGER SHALL BE SLOPED 1/8" PER FOOT.
- CONTRACTOR SHALL CONTACT LOUISIANA ONE CALL PRIOR TO COMMENCEMENT OF SITE EXCAVATION.
- CONTACT BILLY PALMISANO WITH CITY OF SLIDELL PUBLIC UTILITY DEPARTMENT FOR TAPS. (985-646-4291)

SITE UTILITIES LEGEND



NOTE:
ALL PLUMBING IS DRAWN
DIAGRAMMATICALLY FOR
CLARITY

DAMMON ENGINEERING, INC.
LOUISIANA & MISSISSIPPI
www.dammonengineering.com
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Chief Engineer: Brian Mistich, PE
554 Old Spanish Trail
Slidell, LA 70468

#	DESCRIPTION	DATE

SEAL:
STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
PROFESSIONAL ENGINEER

NEW TRAINING FACILITY
ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1
94180 S RANGE ROAD
SLIDELL, LA 70460
JOB No: 25071 DATE: 02-04-2025
DRAWN BY: BAW
C&D CHECKED BY: BAW

SHEET TITLE:
DRAINAGE & UTILITY SITE PLAN

DRAWING NUMBER:
C102
SHEET No: 4 of 15

DRAINAGE & UTILITY SITE PLAN
SCALE: 1" = 10'-0"

FILE NAME: J:_DAMMON\2025 - St. Tammany Parish Facility Fire Protection\2025 - ST. TAMMANY PARISH FACILITY FIRE PROTECTION\2025 - ST. TAMMANY PARISH FACILITY FIRE PROTECTION.dwg
 DATE: 02/24/2025 10:52:44 AM
 USER: bdammon



PAVING & FILL PLAN
SCALE: 1" = 10'-0"

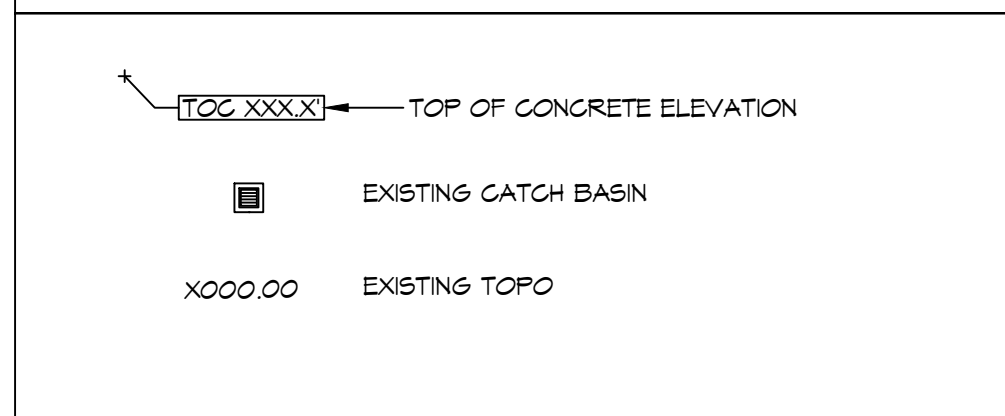
GENERAL SIDEWALK NOTES

SIDEWALKS = 5" THICKNESS (INDICATED WITH CROSS MIX FOR ONE CUBIC YARD OF FIBER-REINFORCED CONCRETE:
 28 DAY STRENGTH 4000 PSI
 CEMENT (ASTM C-150, TYPE I/II) 4.64 SACKS (436 LBS.)
 FLY ASH (ASTM C-618) 1.16 SACKS (109 LBS.)
 GRAVEL (ASTM C-33, GRADE A) 1775 LBS.
 SAND (ASTM C-33) 1226 LBS.
 WATER (POTABLE) 30 GALLONS (250 LBS.)
 TYPE A WATER REDUCER (ASTM C-494) 16.35 LBS.
 AIR ENTRAINMENT 5% BY VOLUME, USE PER MANUFACTURERS SPECIFICATIONS
 FIBER REINFORCEMENT 1.5 LBS/CY MICROFIBERS, AS SPECIFIED BELOW

 FIBER REINFORCEMENT FOR CONCRETE SIDEWALKS SHALL BE MATRIX MONOFILAMENT MICROFIBER AS MANUFACTURED BY FRG INDUSTRIES OR APPROVED EQUAL, APPLIED THROUGHOUT THE CONCRETE MIXTURE. ALTERNATE PRODUCTS MUST BE PREAPPROVED BY THE ENGINEER IN WRITING. CELLULOSE (TREATED OR UNTREATED), AR GLASS, NYLON AND POLYESTER FIBERS ARE SPECIFICALLY PROHIBITED FROM USE.

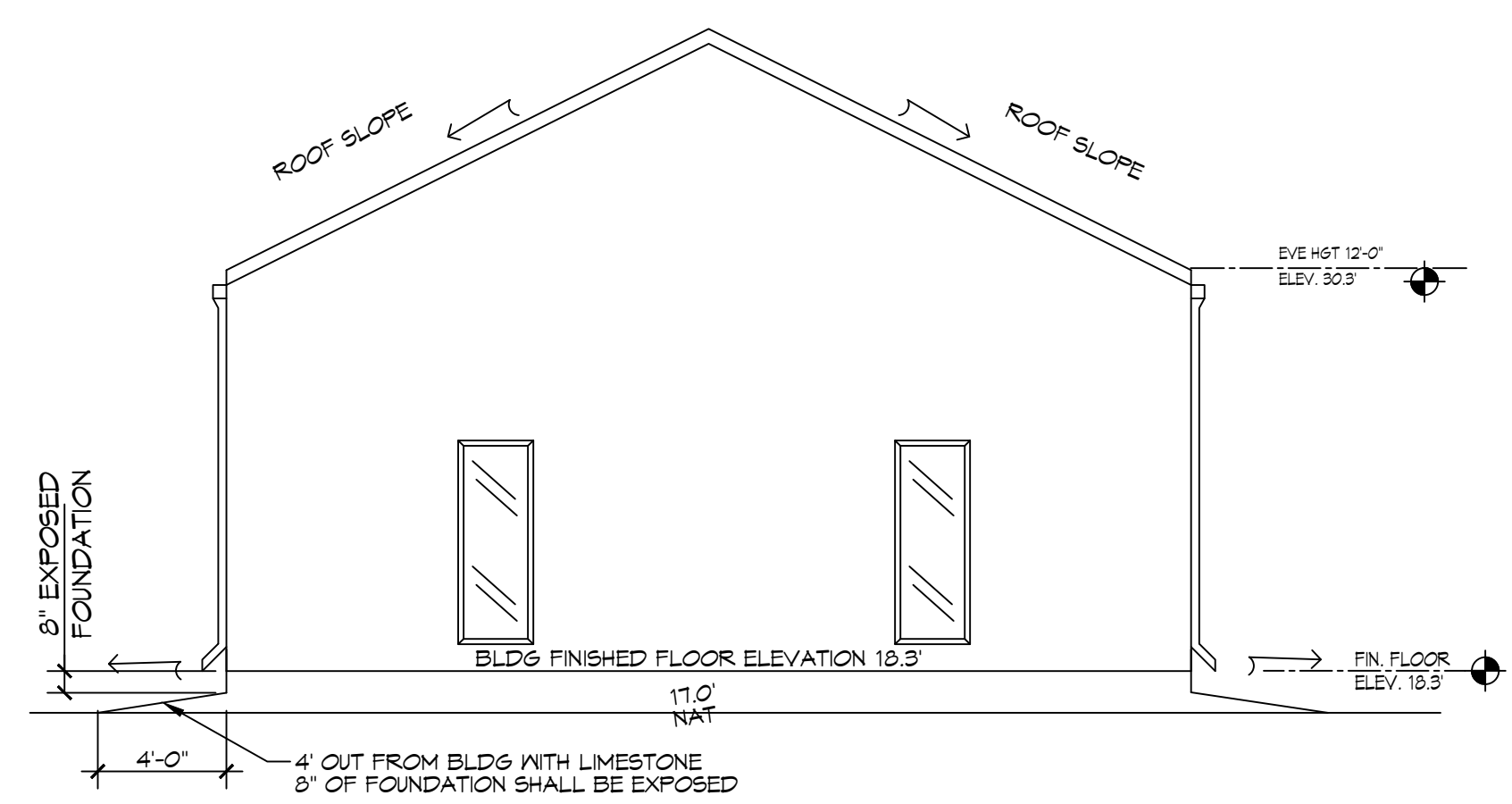
 CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, AND EQUIPMENT NEEDED TO CONSTRUCT WALKWAYS AND PADS.

PAVING LEGEND

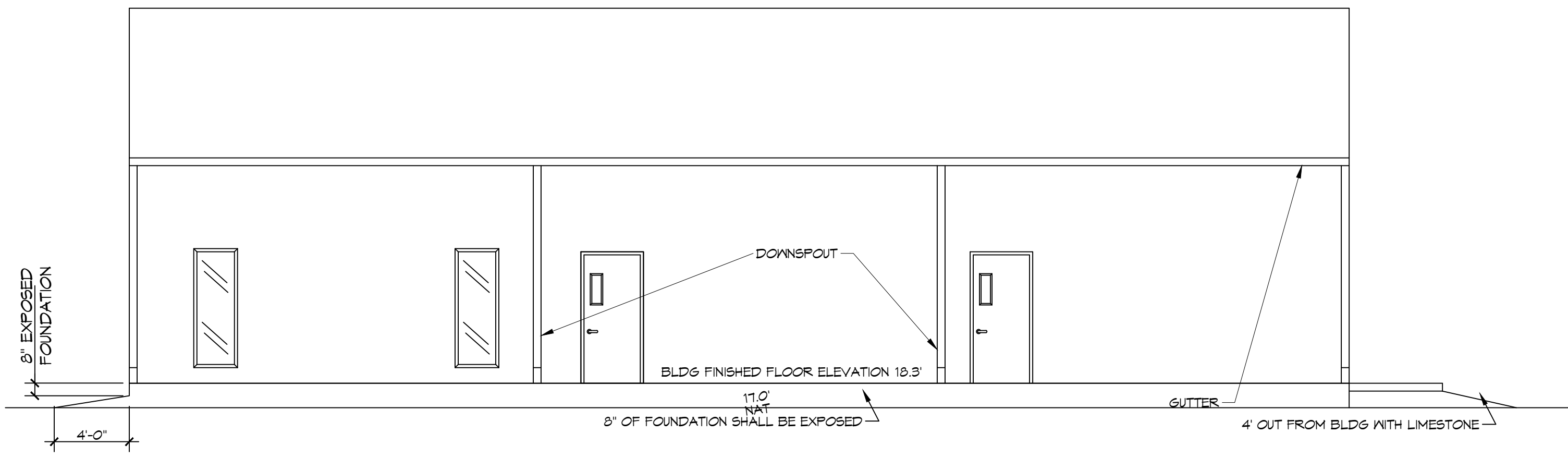


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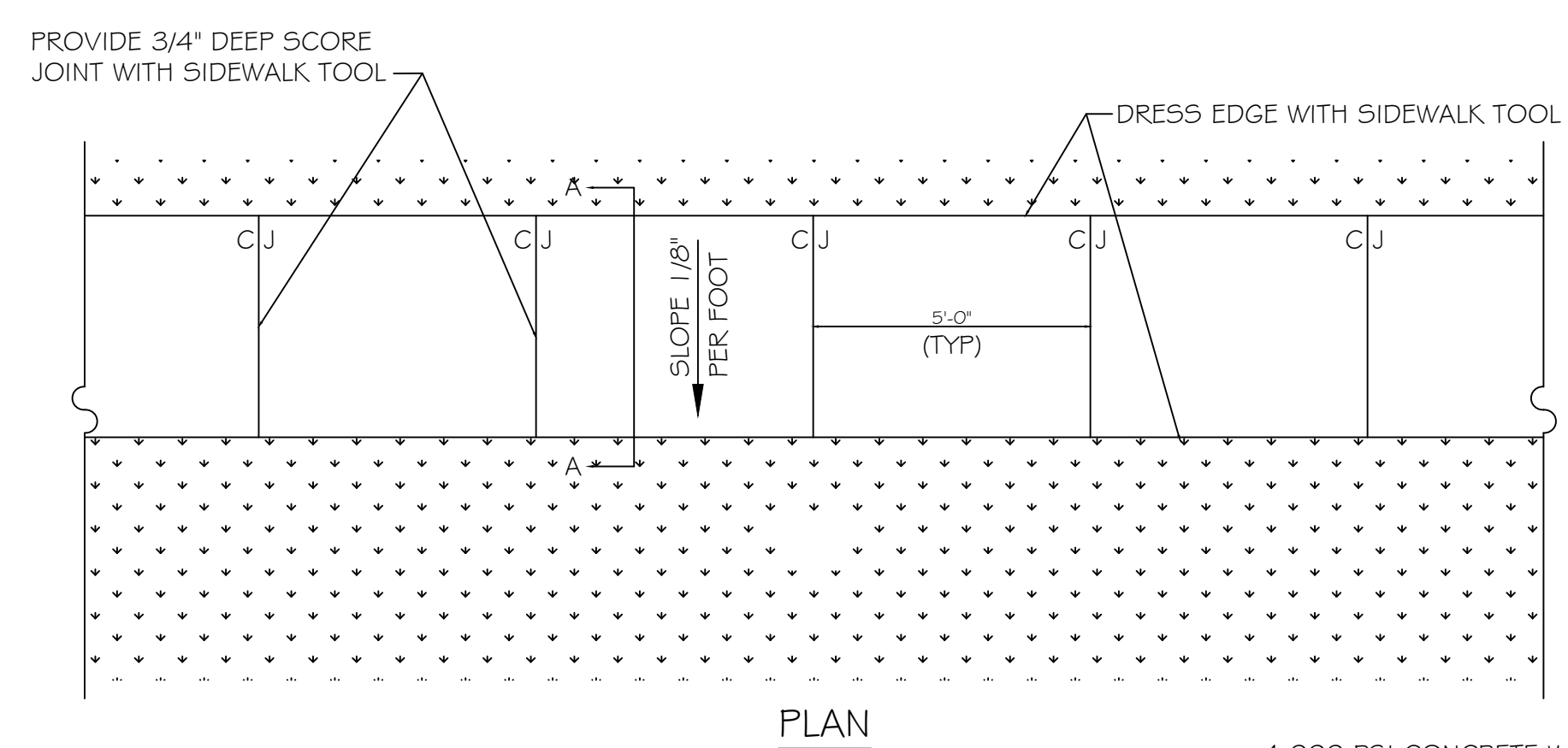
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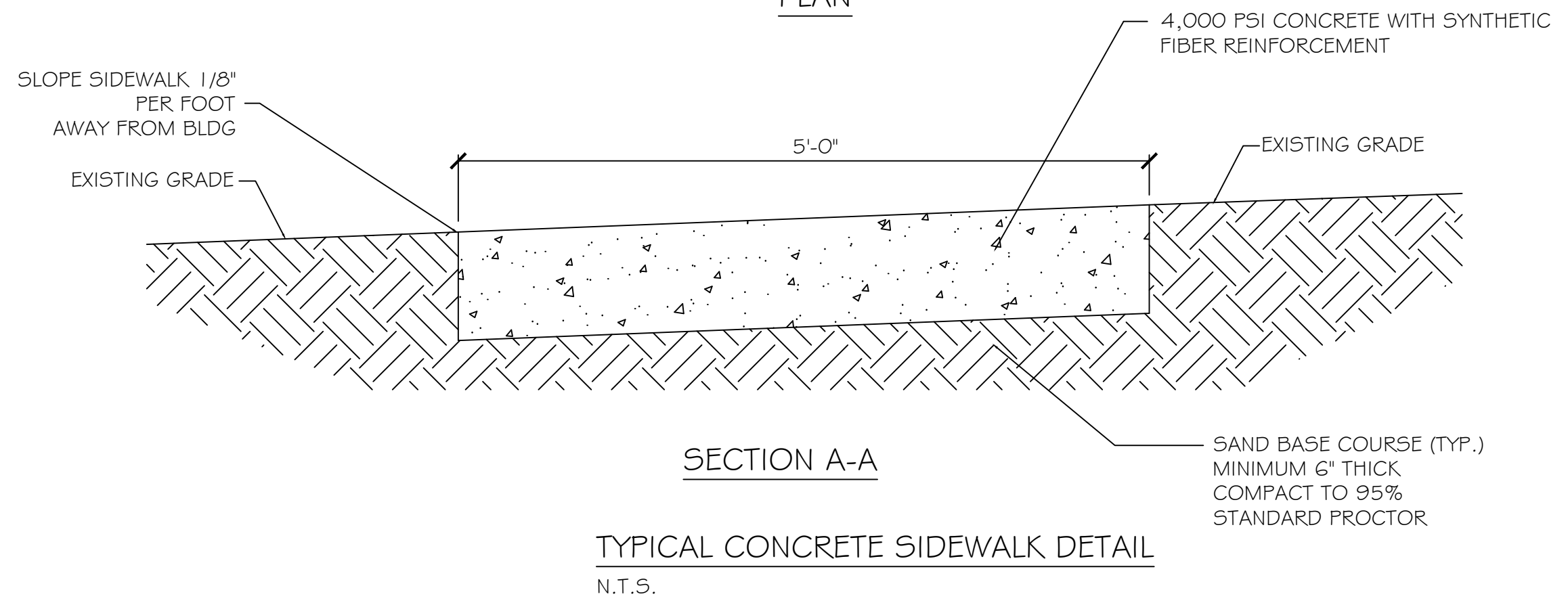
10 CROSS SECTION
SCALE: 3/16" = 1'-0"



10A CROSS SECTION
SCALE: 3/16" = 1'-0"



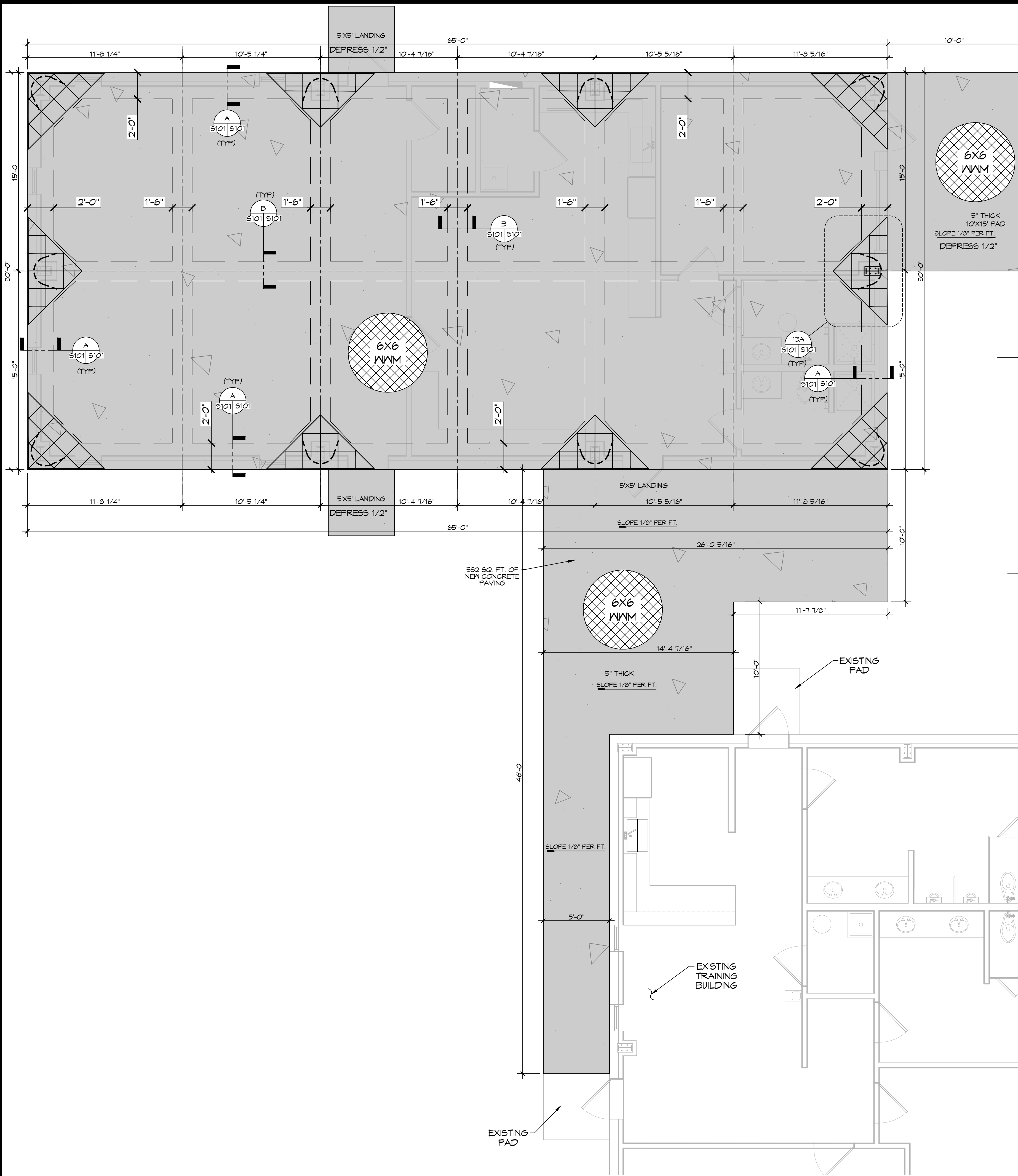
PLAN



SECTION A-A
TYPICAL CONCRETE SIDEWALK DETAIL
N.T.S.

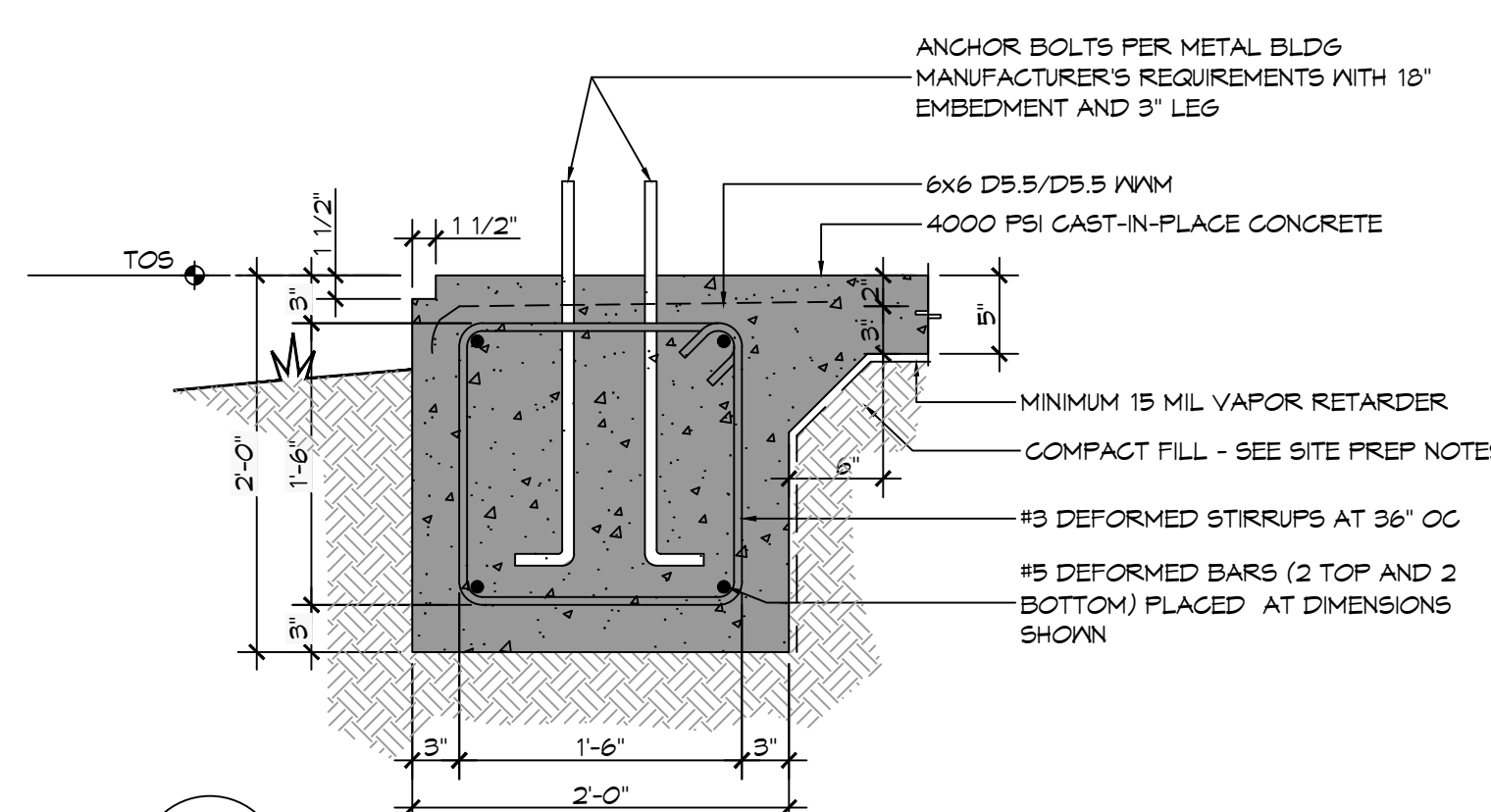
NEW TRAINING FACILITY
ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1
 94180 S RANGE ROAD
 SLIDELL, LA 70460
 JOB No: 25071 DATE: 02-24-2025
 DRAWN BY: BAW
 C&D CHECKED BY:

SHEET TITLE:
PAVING & FILL PLAN
 DRAWING NUMBER:
C103
 SHEET No: 5 of 15

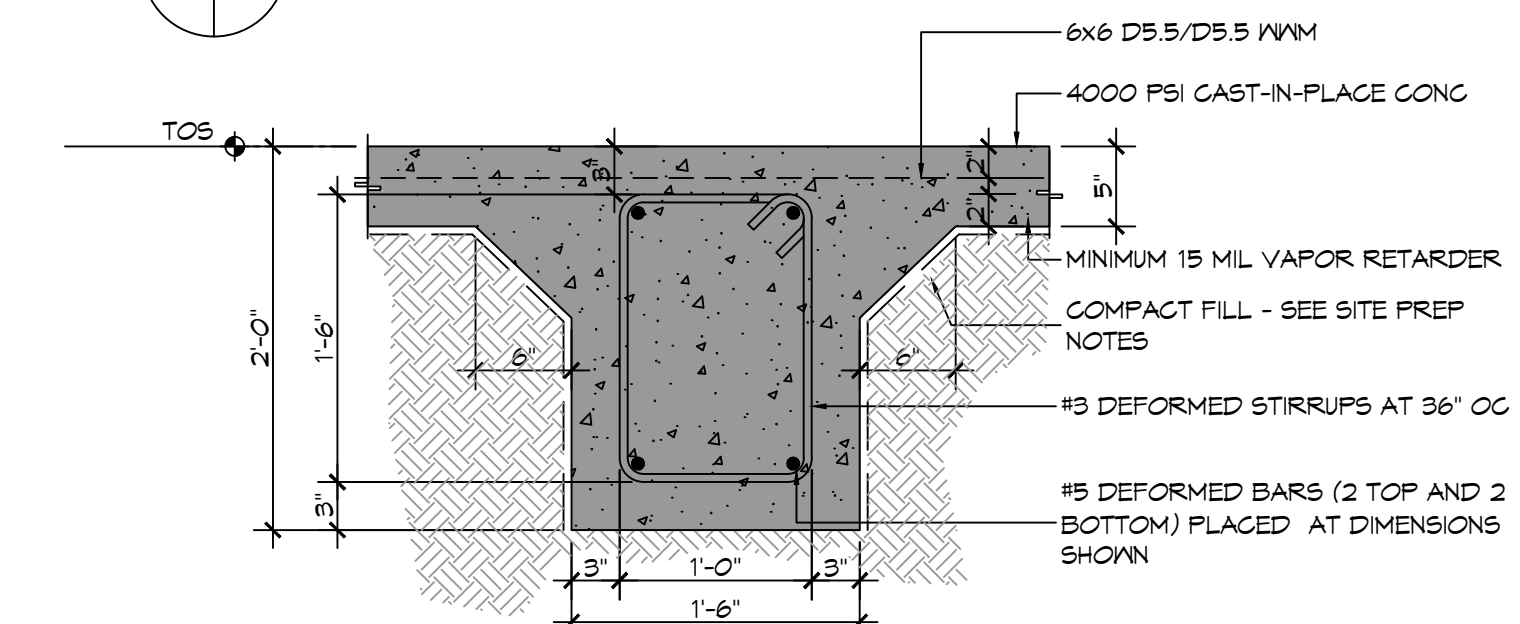


GENERAL FOUNDATION NOTES

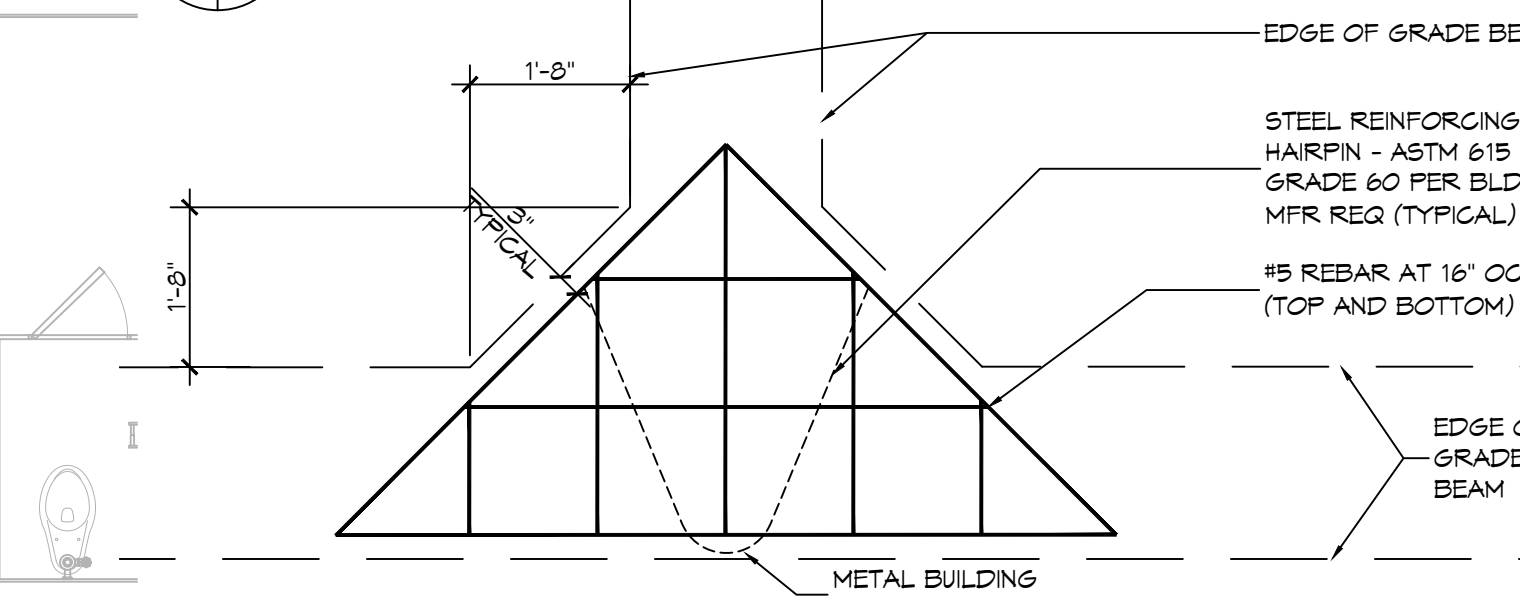
1. THE CONCRETE MIX SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. CONCRETE MIX SHALL BE IN ACCORDANCE WITH AC-318.
2. ALL CONVENTIONAL REINFORCING SHALL MEET ASTM-A615 (GRADE 60).
3. ONE LAYER OF POLYETHYLENE VAPOR BARRIER SHALL BE PLACED UNDER ALL CONCRETE. VAPOR RETARDER TO BE 15 MIL STRENGTH; ASTM E1145 CLASS A, PERMEANCE LESS THAN 0.01 PERMS, EQUAL TO STEGO INDUSTRIES STEGO WRAP ECO-SHIELD-E 15 MIL. BY EPRO OR IRONBAR 15 BY FLATIRON FILMS. PROVIDE APPROPRIATE ACCESSORIES FOR A COMPLETE SYSTEM.
4. ALL REINFORCING STEEL AND MESH SHALL BE SECURELY SUPPORTED TO PREVENT BOTH VERTICAL AND HORIZONTAL MOVEMENT DURING CONCRETE PLACEMENT.
5. THE CONTRACTOR SHALL VERIFY ALL DROPS, OFFSETS, CMU LEDGES, DIMENSIONS, AND CONFIGURATIONS. CONTRACTOR MUST BE RESPONSIBLE FOR SAME.
6. VERIFY ALL PLUMBING ROUGH-IN LOCATIONS & ELECTRICAL ROUGH-IN LOCATIONS.
7. GRADE BEAM SIZES MAY VARY BY -5% TO +20%.
8. ALL SUBGRADE FILL SHALL BE SELECT GRANULAR MATERIAL COMPACTED TO 95% STANDARD PROCTOR DENSITY IN A MAXIMUM OF 6' LIFTS.
9. A MINIMUM OF 5' CONCRETE THICKNESS SHALL BE MAINTAINED THROUGHOUT THE SLAB.
10. ALL RUNOFF WATER MUST BE CARRIED AWAY FROM THE SLAB TO PREVENT SATURATION OF THE SUB-BASE.
11. ALL TREES WITHIN CLOSE PROXIMITY SHALL BE REMOVED TO PREVENT THE ROOTS FROM EXTENDING UNDER THE SLAB.
12. PROVIDE AND MAINTAIN IMMEDIATE SITE DRAINAGE BEFORE, DURING, AND AFTER CONSTRUCTION. PROVIDE GRADING, SWELLS, AND SUMP PUMPS AS MAY BE REQUIRED TO IMMEDIATELY DRAIN ALL RAINWATER FROM THE CONSTRUCTION AREA. FOOTING EXCAVATIONS SHOULD BE OBSERVED AND CONCRETE TO BE PLACED AS QUICKLY AS POSSIBLE TO AVOID EXPOSURE OF THE FOOTING BOTTOMS TO WETTING AND DRYING. SURFACE RUNOFF WATER SHOULD BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO POND PRIOR TO OR AFTER CONCRETE PLACEMENT. IF IT IS REQUIRED THAT A FOOTING EXCAVATION BE LEFT OPEN FOR MORE THAN ONE DAY, IT SHOULD BE PROTECTED TO REDUCE EVAPORATION OR ENTRY OF MOISTURE.
13. NEW SPREAD CONCRETE FOOTINGS AND CONTINUOUS FOOTINGS, BEARING ON COMPACTED STRUCTURAL FILL, AT LEAST 2 FEET BELOW FINISHED GRADE, SHOULD BE DESIGNED FOR MAXIMUM NET ALLOWABLE BEARING PRESSURES OF 1,200 PSF AND 2,000 PSF RESPECTIVELY, BASED ON DEAD LOADS AND DESIGN LIVE LOADS.
14. TREAT SOIL BELOW SLAB FOR TERMITES.



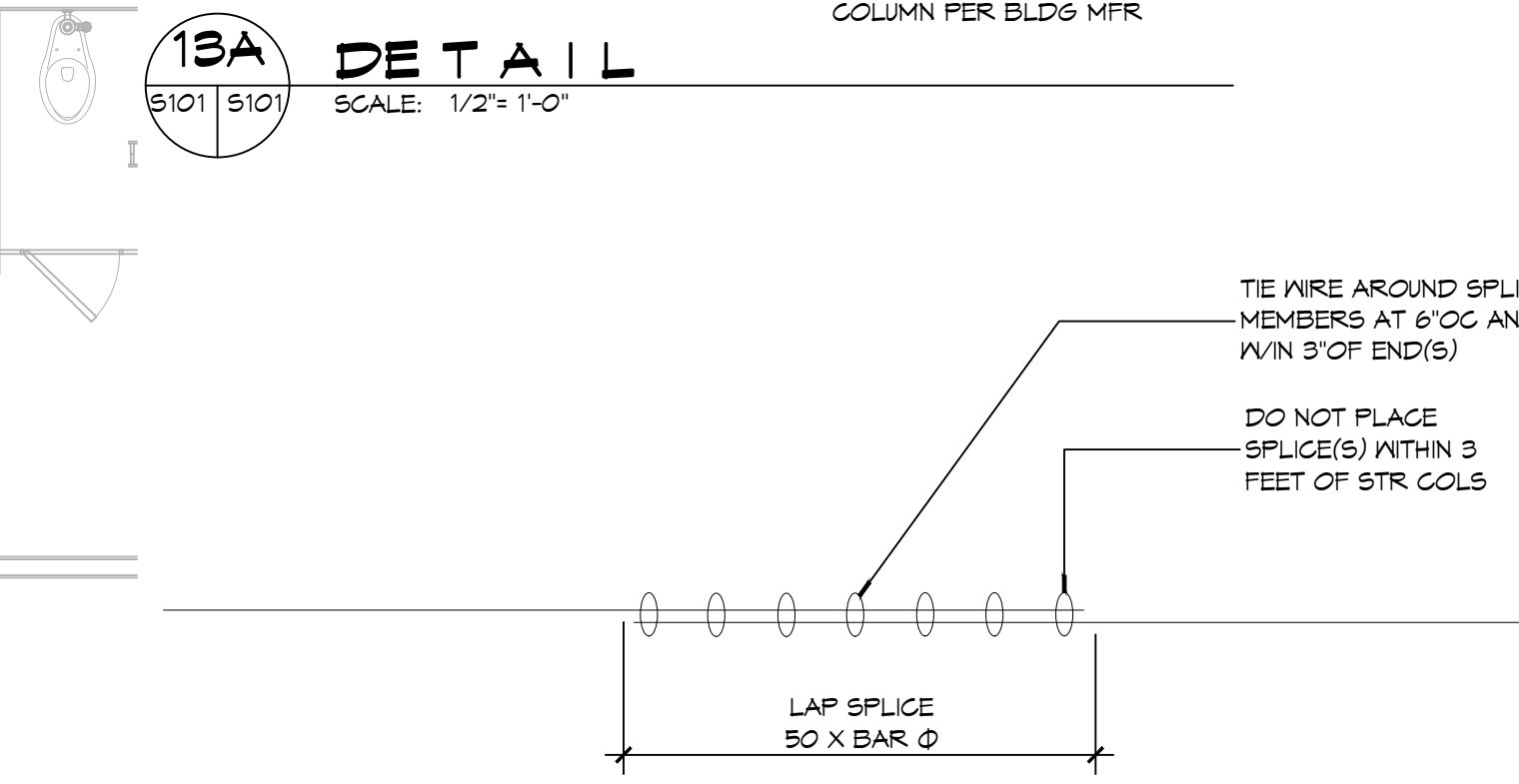
A SECTION
SCALE: 1" = 1'-0"



B SECTION
SCALE: 1" = 1'-0"



13A DETAIL
SCALE: 1/2" = 1'-0"



C DETAIL
SCALE: 1" = 1'-0"

GENERAL SITEPREP NOTES

1. THE GC SHALL EMPLOY A GEOTECHNICAL ENGINEER TO MONITOR SITE CONDITIONS DURING THE PREP WORK OF THE SITE FOUNDATION. REMOVE EXISTING NEAR SURFACE TOPSOIL WITH ORGANICS AND OTHER DELETERIOUS MATERIALS, APPROXIMATELY 8 TO 10 INCHES HOWEVER THE ACTUAL STRIPPING DEPTH SHALL BE DETERMINED BY A GEOTECHNICAL ENGINEER. THE EXPOSED SUBGRADE IN THE BUILDING AREA SHALL BE PROOF-ROLLED WITH A RUBBER TIERED VEHICLE WEIGHING ABOUT 20 TONS; PROOF-ROLLING SHALL BE MONITORED BY A GEOTECHNICAL ENGINEER. ANY SOILS WHICH ARE OBSERVED TO RUT OR DEFLECT EXCESSIVELY UNDER THE MOVING LOAD SHOULD BE UNDERCUT AND REPLACED WITH COMPACTED STRUCTURAL FILL. MUCK OUT AND FILL 24" MINIMUM.
2. THE STRUCTURAL FILL SHALL BE SELECT GRANULAR MATERIAL AND SHALL BE PLACED IN MAXIMUM LIFTS OF EIGHT (8) INCHES OF LOOSE MATERIAL, COMPACTED WITHIN THE RANGE OF ONE (1) PERCENTAGE POINT BELOW TO THREE (3) PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE CONTENT VALUE. IF WATER MUST BE ADDED, IT SHALL BE UNIFORMLY APPLIED AND THOROUGHLY MIXED INTO THE SOIL BY DISKING OR SCARIFYING. EACH LIFT OF COMPACTED STRUCTURAL FILL SHALL BE TESTED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF SUBSEQUENT LIFTS. IN-PLACE DENSITY MEASUREMENTS SHALL BE TAKEN TO ASSURE THAT THE ABOVE DEGREE OF COMPACTION IS ACHIEVED. THE COMPACTED STRUCTURAL FILL SHALL EXTEND FIVE (4) FEET BEYOND THE PERIMETER OF THE BUILDING SLOPING.
3. ALL RUNOFF WATER MUST BE CARRIED AWAY FROM THE SLAB TO PREVENT SATURATION OF THE SUB-BASE.
4. ALL TREES WITHIN CLOSE PROXIMITY SHALL BE REMOVED TO PREVENT THE ROOTS FROM EXTENDING UNDER THE SLAB.
5. PROVIDE AND MAINTAIN IMMEDIATE SITE DRAINAGE BEFORE, DURING, AND AFTER CONSTRUCTION. PROVIDE GRADING, SWELLS, AND SUMP PUMPS AS MAY BE REQUIRED TO IMMEDIATELY DRAIN ALL RAINWATER FROM THE CONSTRUCTION AREA. FOOTING EXCAVATIONS SHOULD BE OBSERVED AND CONCRETE PLACED AS QUICKLY AS POSSIBLE TO AVOID EXPOSURE OF THE FOOTING BOTTOMS TO WETTING AND DRYING. SURFACE RUNOFF WATER SHOULD BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO POND PRIOR TO OR AFTER CONCRETE PLACEMENT. IF IT IS REQUIRED THAT A FOOTING EXCAVATION BE LEFT OPEN FOR MORE THAN ONE DAY, THEY SHOULD BE PROTECTED TO REDUCE EVAPORATION OR ENTRY OF MOISTURE.

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Sibley, LA 70468
Chief Engineer: Brian Mistich, PE

REVISIONS	DATE	DESCRIPTION

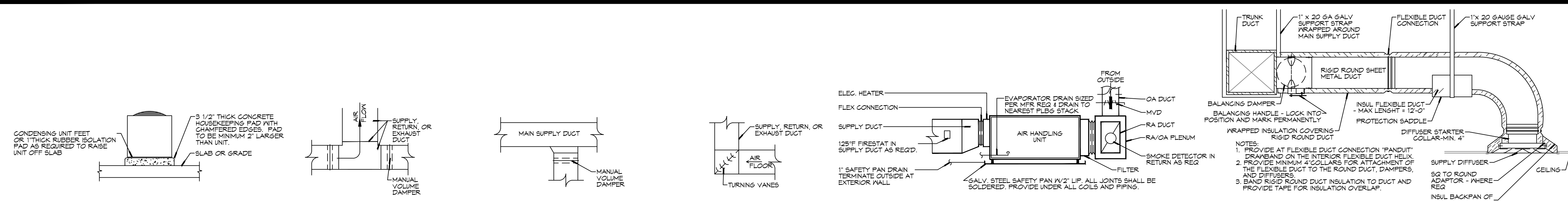
SEAL:

NEW TRAINING FACILITY
ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1
 94780 S RANGE ROAD
 SLIDELL, LA 70460
 JOB No: 25071 DATE: 02-04-2025
 DRAWN BY: C&D CHECKED BY: BAW

SHEET TITLE:
FOUNDATION PLAN
 DRAWING NUMBER:
S101
 SHEET No: 7 of 15

FILE NAME: \\s:\dammon\2025 - School Terminals\Arch\Mechanical\2025 - Mechanical.dwg, DATE: 05/14/2025, TIME: 10:08:14 AM, USER: bdammon, PLOT: 05/14/2025, 10:08:14 AM

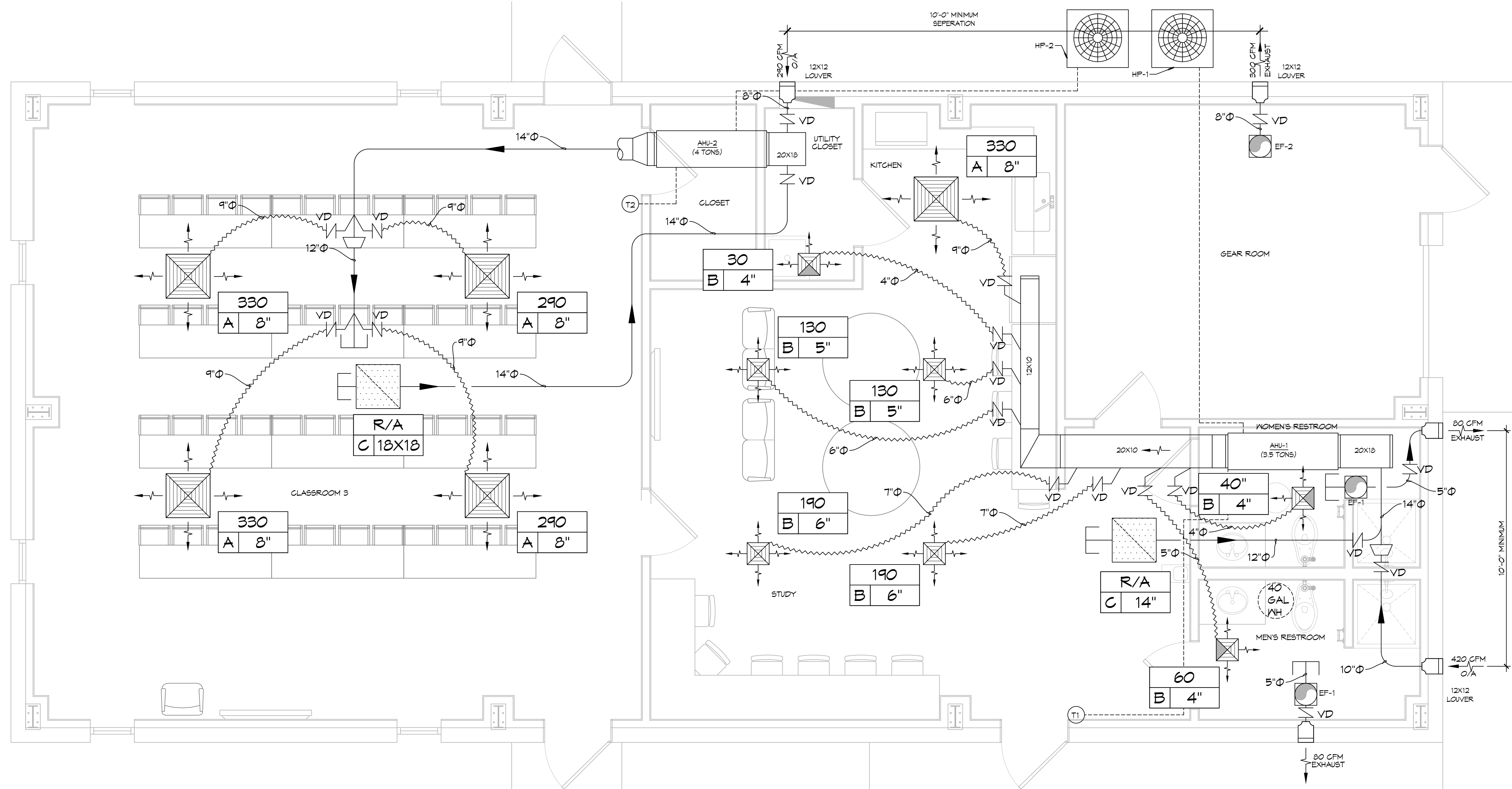
25 DETAILS
SCALE: N.T.S.



- ### GENERAL HVAC NOTES
- CONCEALED DUCTWORK TO BE GALVANIZED SHEET METAL WRAPPED WITH FIBROUS GLASS DUCT WRAP WITH FSK VAPOR BARRIER, MIN R-6. INSTALLED PER SMACNA STANDARDS. DUCT WORK IMMEDIATELY DOWNSTREAM FROM AHU SHALL BE LINED FOR SOUND ATTENUATION.
 - EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-6. INSTALLED PER SMACNA STANDARDS.
 - ROUND FLEXIBLE DUCT TO BE UL-181, CLASS 1, AIR DUCT MATERIALS.
 - DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
 - IN ALL SYSTEMS OVER 2000 CFM AND LESS THAN 15,000 CFM, SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72E IN THE RETURN DUCT DOWNSTREAM OF THE AIR HANDLING UNIT AND ALL FILTERS TO AUTOMATICALLY STOP THE FAN.
 - PROVIDE UL LISTED 125°F FIRESTAT IN RETURN AIR OF EACH SYSTEM UNDER 2000 CFM TO SHUT DOWN THE FAN IN THE EVENT OF FIRE.
 - PROVIDE UL RATED FIRE DAMPERS WHERE REQUIRED AT ALL DUCT PENETRATIONS OF FIRE-RATED ASSEMBLIES AND WHERE REQUIRED BY CODE, INCLUDING OUTSIDE AIR INTAKES AND EXHAUST FANS.
 - CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBERS P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
 - ALL AIR HANDLING SYSTEMS TO BE BALANCED TO ASSURE PROPER AIR FLOWS PER PLANS.
 - ALL THERMOSTATS TO BE AUTOMATIC CHANGEOVER WITH HEAT SWITCH.
 - EXHAUST FAN SHALL BE CONTROLLED BY A SWITCH ON THE WALL IN THE SAME LOCATION AS LIGHT SWITCH(S). PROVIDE BACK DRAFT DAMPER.
 - PROVIDE AND INSTALL WATER PROOF GRILLE VENT IN PROPER ROOF LOCATION FOR PLUMBING FIXTURE EXHAUST.
 - ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS AT THE REGISTER.
 - LOCATE OUTDOOR UNITS AS SHOWN ON ARCHITECTURAL DRAWINGS.
 - REFRIGERANT LINES SHALL BE SIZED BY UNIT MANUFACTURER AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
 - FRESH AIR SHALL BE SUPPLIED TO EACH AIR HANDLER THROUGH EXTERIOR WALL DUCT SUPPLIED WITH A CONTROL DAMPER.
 - ALL ELECTRICAL, MECHANICAL, AND PLUMBING PENETRATING FIRE WALLS SHALL BE FIRE CAULKED. PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E8-14.
 - ALL MECHANICAL SYMBOLS ARE DRAWN DIAGRAMMATICALLY. CONTRACTOR TO VERIFY WITH OWNER LOCATIONS OF VENTS, DAMPERS, REGISTERS, ETC.
 - FLEXIBLE DUCTWORK LENGTH NOT TO EXCEED 12'-0".
 - REFER TO REFLECTED CEILING PLAN FOR FINAL GRILLE AND DIFFUSER LOCATIONS AND COORDINATE AS REQUIRED.
 - FINAL LOCATION OF TEMPERATURE CONTROLS TO BE COORDINATED WITH OWNER AT JOB SITE.
 - PROVIDE AND INSTALL SMOKE DETECTORS AS APPROVED BY LOCAL AHJ. PLACE NEAR R/A AND S/A OPENINGS OF AHU AND PROVIDE WITH ACCESS PANEL, WIRING BY ELECTRICAL CONTRACTOR.
 - FRESH AIR INTAKES ARE REQUIRED TO HAVE MOTORIZED OR GRAVITY DAMPERS TO SHUT OFF WHEN SYSTEM IS NOT RUNNING.
 - PROVIDE BIRD SCREENS AT ALL EXTERIOR MECHANICAL PENETRATIONS.
 - COORDINATE WALL MOUNTED THERMOSTAT LOCATIONS WITH ALL OWNER FURNISHED ITEMS EITHER WALL MOUNTED OR FLOOR MOUNTED AGAINST PARTITIONS. REFER TO ARCHITECTURAL DRAWINGS.
 - PROVIDE MIN 18 GA GALVANIZED SHEET METAL TO BLANK-OFF GABLE VENTS WHERE INTAKE/EXHAUST DUCTS OCCUR.

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 PH: 985.649.5832

#	DESCRIPTION	DATE



26 MECHANICAL FLOOR PLAN
SCALE: 3/8" = 1'-0"

SPLIT SYSTEM SCHEDULE																				
TAG	MAKE	MODEL	AIR HANDLER				AUX. HEAT	POWER				HEAT PUMP				REMARKS				
			NOMINAL TONS	TOTAL CFM	OA CFM	Motor HP		ESP (" WC)	KW	VAC	PH	MCA	MAX FUSE (AMPS)	TAG	MAKE		MODEL	VAC	PH	MCA
AHU-1	Trane	GAN5B0C42	3-1/2	1100	420	1/2	0.5	2.9	208	1	22	25	HP-1	Trane	4TWR6042	208	1	26	45	1, 2, 3
AHU-2	Trane	GAN5B0C48	4	1240	290	3/4	0.4	2.9	208	1	25	25	HP-2	Trane	4TWR6048	208	1	28	50	1, 2, 3

- NOTES:
- Provide condensate overflow switch & programmable 7/24 thermostat with lockable cover.
 - Install units in accordance with manufacturer's recommendations.
 - Provide new filters after commissioning and final acceptance.

DIFFUSER SCHEDULE				
TAG	SERVICE	NECK SIZE	DESCRIPTION	REMARKS
A	Supply Air	Ref. Plan	24" x 24" Adjustable Square Cone Diffuser, Price ASCDA w/ Insulated Back Panel	1, 2, 3
B	Supply Air	Ref. Plan	12" x 12" Adjustable Square Cone Diffuser, Price ASCDA w/ Insulated Back Panel	1, 2, 3
C	Return Air	Ref. Plan	24" x 24" Perforated, Ducted Return, Titus PAR	1, 2, 3

- Notes:
- Seal perimeter of diffusers/grilles to prevent moisture migration from attic space, as applicable
 - R value of insulated back panels/plenums to exceed R-6
 - Coordinate with owner / architect for color and finish

EXHAUST FAN SCHEDULE								
TAG	FAN		POWER			MAKE / MODEL	REMARKS	
	AIRFLOW (CFM)	TSP ("wc)	VAC	PH	HZ Amps			
EF-1	80	0.20	120	1	60	0.37	Broan A80	1, 2
EF-2	300	0.15	120	1	60	2.6	Broan L300	1, 2

1. Install per manufacturer's recommendations.
2. Furnish with matching grille.

LEGEND

CFM NECK SIZE/MARK

- SUPPLY AIR GRILLE 4-WAY
- SUPPLY AIR 3-WAY BLOW
- SUPPLY AIR 2-WAY BLOW
- RETURN AIR GRILLE
- EXHAUST FAN
- THERMOSTAT
- SUPPLY AIR DUCT
- RETURN AIR DUCT
- DAMPER CONTROL (V.D.)

ROUND FLEX DUCT, MAX. LENGTH 12'-0", MIN. R-6. DUCT SIZE AS FOLLOWS:
 250 CFM TO 350 CFM = 9"
 200 CFM TO 250 CFM = 8"
 150 CFM TO 200 CFM = 7"
 100 CFM TO 150 CFM = 6"

NOTE:
ALL MECHANICAL IS DRAWN DIAGRAMMATICALLY FOR CLARITY, FIELD VERIFY PRIOR TO FABRICATION.

NEW TRAINING FACILITY
 ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1
 54780 S RANGE ROAD
 SLIDELL, LA 70466
 JOB No: 2507
 DATE: 02-04-2025
 DRAWN BY: BAK
 CHECKED BY: CKD

SHEET TITLE:
MECHANICAL FLOOR PLAN, SCHEDULES AND DETAILS

DRAWING NUMBER:
M101

SHEET No: 13 of 15

