

LIFE FIRST AMBULANCE STATION

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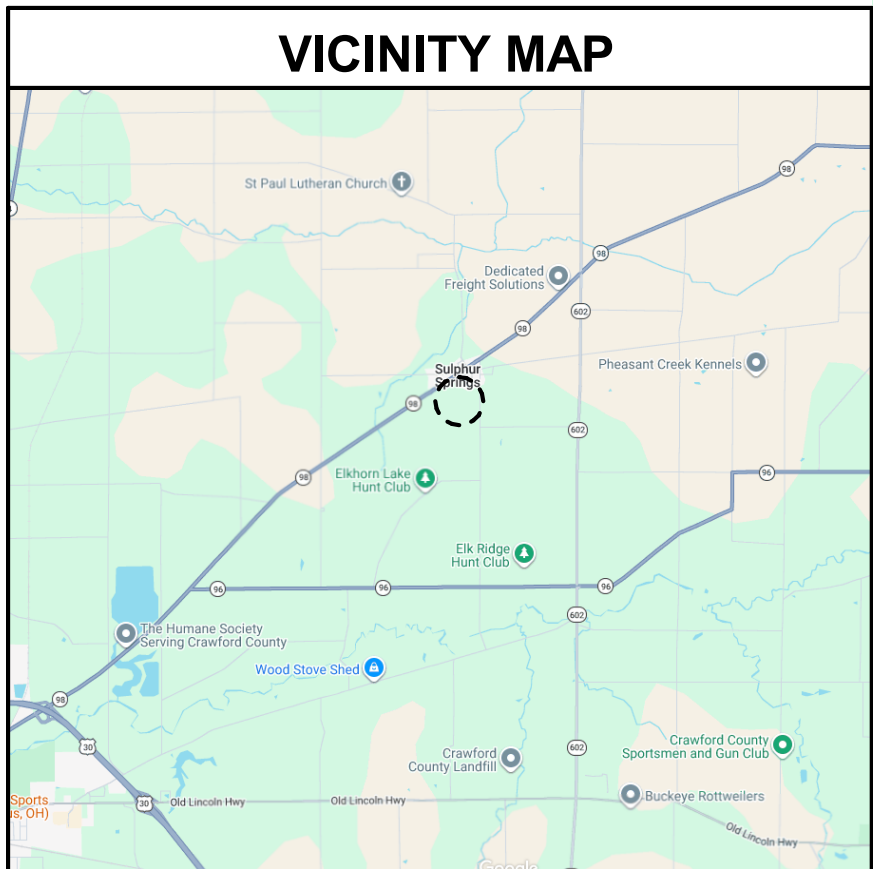
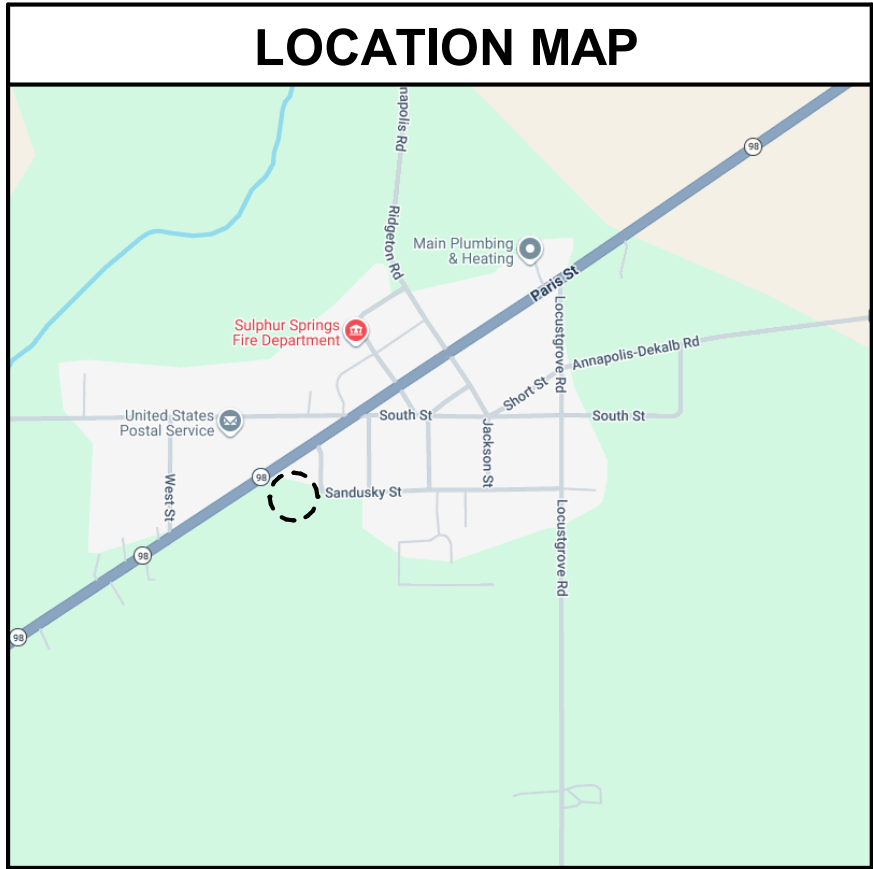
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BIDDING DOCUMENTS

8/17/2026

REVISIONS:

#	DATE	DESCRIPTION
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DRAWN BY: ADS
CHECKED BY: BG
PROJECT NUMBER: 2613

G-001
COVER SHEET

8/17/2026 8:50:36 AM Autodesk Docs://Life First Emergency Medical Service Station/2612-Life First EMS Station_R24.rvt

ABBREVIATION LIST											
ADA	ADA ACTUATOR	DIM	DIMENSION	MIN	MINIMUM	SCONC	SEALED CONCRETE				
ADJ	ADJACENT	DN	DOWN	MISC	MISCELLANEOUS	SDG	SUSPENDED DECORATIVE GRID CEILING				
AMP	ACOUSTICAL METAL PAN	DSN	DOWNSPOUT NOZZLE	MO	MASONRY OPENING	SF	SQUARE FEET OR FOOT				
APC	ACOUSTICAL PANEL CEILING	EJ	EXPANSION JOINT	MP	METAL PANEL	SG	SAFETY GLAZING				
AF	ACCESS FLOORING	EP	ELECTRICAL PANEL	MR	MAP RAIL	SIM	SIMILAR				
AFF	ABOVE FINISH FLOOR	ER	RESINOUS FLOORING	MW	MARKERWALL	SPEC	SPECIFICATION(S)				
ALT	ALTERNATE	EQ	EQUAL	N	NORTH (DIRECTION)	SS	SOLID SURFACE				
ALUM	ALUMINUM	EQUIP	EQUIPMENT	NA	NOT APPLICABLE	SST	STAINLESS STEEL				
AP	ACCESS PANEL	ETR	EXISTING TO REMAIN	NIC	NOT IN CONTRACT	ST	STONE TILING				
APPROX	APPROXIMATE	EX	EXISTING	OBC	OHIO BUILDING CODE	STA	STAIN				
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	EXP	EXPOSED	OH	OPPOSITE HAND	STC	SOUND TRANSMISSION COEFFICIENT				
BLDG	BUILDING	FA	FIRE ALARM	OPP	OPPOSITE	STCON	STAINED CONCRETE				
BOT	BOTTOM	FD	FLOOR DRAIN	OS	OCCUPANCY SENSOR	STF	STONE FLOORING				
BRK	BRICK	FDC	FIRE DEPARTMENT CONNECTION	PES	PAINTED EXPOSED STRUCTURE	STL	STEEL				
BRKF	BRICK FLOORING	FE	FIRE EXTINGUISHER	PH	PAGING HORN	STP	SHORT THROW PROJECTOR				
CB	CALL BUTTON	FEC	FIRE EXTINGUISHER CABINET	PL	PROPERTY LINE	STRUCT	STRUCTURAL				
C/C	CENTER TO CENTER	FO	FLOOR OUTLET	PLAM	PLASTIC LAMINATE	SW	SUSPENDED WOOD CEILING				
CG	CORNER GUARD	FS	FLOOR SINK	PLYWD	PLYWOOD	TB	TACKBOARD				
CFMF	COLD FORMED METAL FRAMING	FT	FLOOR TROUGH	POR	PORCELAIN TILE	TER	TERRAZZO FLOORING				
CJ	CONTROL JOINT	GA	GAGE OR GAUGE	PP	PLASTIC PANELING	TS	TRANSITION STRIP				
CK	CORK	GC	GENERAL CONTRACT(OR)	PT	PAINT OR PAINTED	TSTAT	THERMOSTAT				
CKF	CORK FLOORING	GCJ	GYPSTUM BOARD CONTROL JOINT	PR	PROXIMITY READER	TYP	TYPICAL				
CL	CENTERLINE	GL	GLASS	PTM	PATCH TO MATCH	UH	UNIT HEATER				
CLG	CEILING	GR	GROUT	QT	QUARRY TILE	UNO	UNLESS NOTED OTHERWISE				
CO	CLEANOUT	GT	GLASS TILING	RAF	RESILIENT ATHLETIC FLOORING	VCT	VINYL COMPOSITE TILE				
COL	COLUMN	GWB	GYPSTUM WALL BOARD	RB	RESILIENT WALL BASE	VS	VACANCY SENSOR				
CONC	CONCRETE	HB	HOSE BIBB	RD	ROOF DRAIN	W/	WITH				
CMU	CONCRETE MASONRY UNIT	HM	HOLLOW METAL	RO	ROUGH OPENING	WAF	WOOD ATHLETIC FLOORING				
CP	COMPOSITE PANEL	IC	INTERCOM	ROW	RIGHT OF WAY	WAP	WIRELESS ACCESS POINT				
CPT	CARPETING	IGU	INSULATED GLASS UNIT	RS	RESILIENT SHEET FLOORING	WC	WALL COVERING				
CR	CARD READER	IJ	ISOLATION JOINT	RT	RUBBER TILE	WD	WOOD				
CT	CERAMIC TILE	KB	KNOX BOX	S	SPEAKER	WDF	WOOD FLOORING				
DEMO	DEMOLITION	LMC	LINEAR METAL CEILING	SA	STAIR ACCESSORIES	WH	WALL HYDRANT				
DF	DRINKING FOUNTAIN	LVT	LUXURY VINYL TILE	SACU	SOUND-ABSORBING CEILING UNIT	W/O	WITHOUT				
DH	DOOR HEATER	MAX	MAXIMUM	SAWU	SOUND-ABSORBING WALL UNIT						
DIAM	DIAMETER	MB	MARKERBOARD	SC	SOLID CORE						

GENERAL NOTES	
1.	PROVIDE CUTTING AND SITE CLEARING AS REQUIRED TO COMPLETE THE WORK.
2.	PROVIDE PATCHING DUE TO CUTTING AND SITE CLEARING.
3.	PROVIDE TURF RESTORATION DUE TO SITE CLEARING OPERATIONS AND WHERE EXISTING TURFS AND GRASSES ARE DAMAGED.
4.	DIMENSIONS ARE TO FACE OF FINISH MATERIAL UNLESS NOTED.
5.	ALL ITEMS ARE NEW UNLESS NOTED.
6.	THERE SHALL NOT BE EXPOSED PIPE, CONDUIT, DUCTS, VENTS OR OTHER EQUIPMENT IN ANY FINISH SPACE UNLESS NOTED.
7.	DRAWINGS ARE DIAGRAMMATIC.
8.	WALL TYPES ADJACENT TO OPENINGS CONTINUE OVER OPENINGS.
9.	WHERE DISSIMILAR METALS WILL COME INTO CONTACT WITH EACH OTHER AND WHERE TREATED LUMBER WILL COME INTO CONTACT WITH METAL SURFACES PROVIDE ISOLATION/PROTECTION AGAINST GALVANIC ACTION (ELECTROLYSIS).
10.	PROVIDE JOINT SEALANT AT JOINTS BETWEEN DISSIMILAR MATERIALS AND AS INDICATED.
11.	PROVIDE SAFETY GLAZING AS INDICATED AND IN ALL AREAS REQUIRED BY THE OHIO BUILDING CODE.
12.	WHERE THE ROOM FINISH SCHEDULE INDICATES PAINT OF A SURFACE (WALL, CEILING, ETC.) INCLUDE THE PAINTING OF ALL UNFINISHED ITEMS ATTACHED TO THAT SURFACE WHETHER SPECIFICALLY CALLED OUT OR NOT, UNLESS THE ROOM FINISH SCHEDULE INDICATES THAT A SURFACE OR MATERIAL IS NOT TO BE PAINTED OR IS TO REMAIN NATURAL. IF THE FINISH SCHEDULES DO NOT SPECIFICALLY MENTION AN ITEM OR A SURFACE, PAINT THE ITEM OR SURFACE THE SAME AS SIMILAR ADJACENT MATERIAL OR SURFACES. IF THE SCHEDULES DO NOT INDICATE COLOR OR FINISH, THE ARCHITECT WILL SELECT FROM COLORS AND FINISHES AVAILABLE.
13.	PROVIDE CONTINUOUS INSULATION AROUND THE ENTIRE BUILDING ENVELOPE.
14.	PAINT ALL UNFINISHED ITEMS EXPOSED TO VIEW.
15.	ARCHITECTURAL ELEVATION 100'-0" = <u>XXX</u>

DRAWING SYMBOLS	
SECTION TAG 	ROOM TAG
ELEVATION TAG 	WALL TYPE
CALLOUT 	CODED NOTE
COLUMN LINE 	DOOR TAG
ELEVATION LEVEL LINE 	SPOT ELEVATION
NORTH ARROW 	CEILING TAG
REVISION BUBBLE AND TAG 	SPECIALTY EQUIPMENT TAG
	GLAZING
	CENTERLINE
	WINDOW TAG
	CASEWORK TAG
	MATERIAL TAG

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G-002
GENERAL NOTES, ABBREVIATIONS, AND
DRAWING SYMBOLS

CODE DATA

APPLICABLE CODES
2024 OHIO BUILDING CODE

302 USE AND OCCUPANCY CLASSIFICATION:
USE GROUP(S): B and S-2

504.3 BUILDING HEIGHT (TABLE 504.3):
ALLOWABLE: 40 FT
ACTUAL: 20 FT

504.4 BUILDING STORIES (TABLE 504.4):
ALLOWABLE: 2
ACTUAL: 2

506.2 BUILDING AREA (TABLE 506.2):
506.2 ALLOWABLE AREA
USE GROUP B (NOT SPRINKLERED): 9000 SF
USE GROUP S-2 (NOT SPRINKLERED): 13,500 SF

506.3 FRONTAGE INCREASE (TABLE 506.3.3):
PERCENTAGE OF BUILDING PERIMETER THAT HAS OPEN SPACE ADJACENT TO PERIMETER: 100%
OPEN SPACE WIDTH (W): GREATER THAN 30 FEET
FRONTAGE INCREASE FACTOR: .75
ALLOWABLE AREA: 9000 SF + (9000 SF X .75) = 15,750 SF
ACTUAL AREA: 3,493 SF (THE AREA WITHIN THE INSIDE PERIMETER OF THE EXTERIOR WALLS INCLUDING THE AREA UNDER THE HORIZONTAL PROJECTION OF THE ROOF ABOVE FOR AREAS NOT HAVING SURROUNDING EXTERIOR WALLS)
ACTUAL AREA IF ADDITIONAL GARAGE BAY ALTERNATE IS ACCEPTED: 4,246 SF.

508.2 ACCESSORY OCCUPANCIES
508.2.3 AGGREGATE ACCESSORY OCCUPANCIES SHALL NOT BE MORE THAN 10% OF THE FLOOR AREA OF THE STORY IN WHICH THEY ARE LOCATED.
ACTUAL: THERE ARE 3 EMT ROOMS WHERE EMT'S SLEEP OVER NIGHT. THEY TOTAL 288 SF WHICH IS LESS THAN 10 PERCENT OF TOTAL BUILDING AREA OF 3,493 SF. THIS ALLOWS THEM TO BE AN ACCESSORY OCCUPANCY.
508.2.4 SEPARATION USE GROUP R-2 SLEEPING UNITS SHALL BE SEPARATED FROM OTHER SLEEPING UNITS AND FROM ACCESSORY OCCUPANCIES CONTIGUOUS TO THEM IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 420.
420.2: FIRE PARTITIONS IN ACCORDANCE WITH SECTION 708 ARE REQUIRED FOR SEPARATION.
708.3: FIRE RESISTANCE RATING-NOT LESS THAN 1 HOUR.
ACTUAL: SEE FLOOR PLAN ON SHEET A-100 FOR LOCATION OF 1 HOUR FIRE PARTITIONS USED FOR SEPARATION.

509 INCIDENTAL USES (TABLE 509.1)
THERE ARE NO ROOMS OR AREAS THAT MEET THE CRITERIA FOR INCIDENTAL USES SUCH AS: FURNACE ROOMS DO NOT HAVE ANY PIECE OF EQUIPMENT OVER 400,000 BTU PER HOUR INPUT. THERE ARE NO BOILERS.

602 CONSTRUCTION CLASSIFICATION: TYPE VB
FIRE RESISTANCE RATED CONSTRUCTION (TABLE 601):
PRIMARY STRUCTURAL FRAME: 0
BEARING WALLS:
EXTERIOR: 0
INTERIOR: 0
NON-BEARING WALLS:
EXTERIOR: SEE TABLE 705.5
INTERIOR: 0
FLOOR & SECONDARY MEMBERS: 0
ROOF & SECONDARY MEMBERS: 0
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY STRUCTURAL MEMBERS: 0
ROOF CONSTRUCTION AND ASSOCIATE SECONDARY STRUCTURAL MEMBERS: 0

602.5 TYPE V
TYPE V CONSTRUCTION IS THAT TYPE OF CONSTRUCTION IN WHICH THE STRUCTURAL ELEMENTS, EXTERIOR WALLS AND INTERIOR WALLS ARE OF ANY MATERIALS PERMITTED BY THIS CODE.

705.5 FIRE-RESISTANCE RATINGS
FOR SEPARATION DISTANCE GREATER THAN OR EQUAL TO OR GREATER THAN 30 FEET THE FIRE RATING REQUIREMENT FOR USES B & S-2, CONSTRUCTION TYPE VB IS 0 HOURS.

718.4 DRAFTSTOPPING IN ATTICS
DRAFTSTOPPING SHALL BE INSTALLED TO SUBDIVIDE ATTIC SPACES WHERE REQUIRED BY SECTION 708.4.2. IN OTHER THAN GROUP R, DRAFTSTOPPING SHALL BE INSTALLED TO SUBDIVIDE COMBUSTIBLE ATTIC SPACES AND COMBUSTIBLE CONCEALED ROOF SPACES SUCH THAT ANY HORIZONTAL AREA DOES NOT EXCEED 3,000 SQUARE FEET (279 M2). VENTILATION OF CONCEALED ROOF SPACES SHALL BE MAINTAINED IN ACCORDANCE WITH SECTION 1202.2.1.
AREA OF ATTIC DOES NOT EXCEED 3,000 SF. NO DRAFTSTOPPING IS REQUIRED.

803 WALL AND CEILING FINISHES
803.1.2 INTERIOR WALL AND CEILING FINISH MATERIALS
CLASS A = FLAME SPREAD INDEX 0-25; SMOKE DEVELOPED INDEX 0-450
CLASS B = FLAME SPREAD INDEX 26-75; SMOKE DEVELOPED INDEX 0-450
CLASS C = FLAME SPREAD INDEX 76-200; SMOKE DEVELOPED INDEX 0-450

803.13 INTERIOR FINISH REQUIREMENTS BASED ON GROUP (TABLE 803.13)
USE GROUP: B & S-2 NON SPRINKLERED (B IS MOST STRINGENT)
CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS: CLASS B: ALLOWED CLASS C: ALLOWED
ROOMS AND ENCLOSED SPACES: CLASS A: ACTUAL CLASS A: ACTUAL

804 INTERIOR FLOOR FINISHES
804.4.2 INTERIOR FLOOR FINISH REQUIREMENTS: CLASS II

903 AUTOMATIC SPRINKLER SYSTEMS
903.2.10 GROUP S-2 PARKING GARAGES
THIS BUILDING DOES NOT HAVE A FIRE AREA EXCEEDING 12,000 SF AND IS NOT LOCATED BENEATH OTHER GROUPS: **SPRINKLER SYSTEM NOT REQUIRED.**

903.2.10.1 COMMERCIAL PARKING GARAGES
THIS BUILDING DOES NOT HAVE A FIRE AREA EXCEEDING 5,000 SF: **SPRINKLER SYSTEM NOT REQUIRED.**

903.2.10.2 MECHANICAL ACCESS ENCLOSED PARKING GARAGE
THIS BUILDING DOES NOT CONTAIN PARKING MACHINES, LIFTS: **SPRINKLER SYSTEM NOT REQUIRED.**

906 PORTABLE FIRE EXTINGUISHERS
906.3 SIZE AND DISTRIBUTION
MINIMUM RATED SINGLE EXTINGUISHER 2-A
MAXIMUM FLOOR AREA PER UNIT OF A: 3,000 SF
MAXIMUM TRAVEL DISTANCE TO EXTINGUISHER: 75 FT
ACTUAL: 3-A 40 B C 5 LB MULTIPURPOSE DRY CHEMICAL TYPE
ACTUAL: 3-A PROVIDES FOR 9,000 SF. ACTUAL: 4,246 SF TOTAL AREA
ACTUAL: 2 FIRE EXTINGUISHERS ARE PLACED AS SHOWN ON LIFE SAFETY PLAN THAT LIMITS TRAVEL DISTANCE TO LESS THAN 75 FEET.

MAXIMUM FLOOR AREA FOR EXTINGUISHER: 11,250 SF

906.9.1 EXTINGUISHERS WEIGHING 40 POUNDS OR LESS
PORTABLE FIRE EXTINGUISHERS HAVING A GROSS WEIGHT NOT EXCEEDING 40 POUNDS (18 KG) SHALL BE INSTALLED SO THAT THEIR TOPS ARE NOT MORE THAN 5 FEET (1524 MM) ABOVE THE FLOOR.

907 FIRE ALARM AND DETECTION SYSTEMS
907.2 WHERE REQUIRED-NEW BUILDING AND STRUCTURES
907.2.2 GROUP B
A manual fire alarm system, which activates the occupant notification system in accordance with Section 907.5, shall be installed in Group B occupancies where one of the following conditions exists:
The combined Group B occupant load of all floors is 500 or more.
The Group B occupant load is more than 100 persons above or below the lowest level of exit discharge.
The fire area contains an ambulatory care facility.
ACTUAL: THIS FACILITY HAS OCCUPANT LOAD LESS THAN 500 AND DOES NOT HAVE ANY OCCUPANTS ABOVE OR BELOW THE LOWEST LEVEL OF EXIT DISCHARGE AND DOES NOT CONTAIN AN AMBULATORY CARE FACILITY.
NO FIRE ALARM SYSTEM IS REQUIRED FOR THIS FACILITY.

918 EMERGENCY RESPONDER RADIO COVERAGE
918.1 EMERGENCY RESPONDER RADIO COVERAGE IN ACCORDANCE WITH SECTION 510 OF THE FIRE CODE.

1003 GENERAL MEANS OF EGRESS
1003.1 MINIMUM CEILING HEIGHT: 7'-6"
1003.3 PROTRUDING OBJECTS
HEADROOM: 80"
DOOR CLOSERS AND STOPS: 78"
PROTRUDING OBJECTS BELOW 80": 27" MAXIMUM HIGH BARRIER
HORIZONTAL PROJECTIONS: 4"
BUILDING FULLY COMPLIES

1004 OCCUPANT LOAD
REFER TO OCCUPANT LOAD SHOWN ON LIFE SAFETY PLAN

1005 MEANS OF EGRESS SIZING
1005.3.2 OTHER EGRESS COMPONENTS:
CAPACITY 0.2" / OCCUPANT
3'-0" DOOR (CALCULATED AT 34") = 170 OCCUPANTS
MINIMUM ACTUAL CORRIDOR WIDTH IS 40", 40' / 2" PER OCCUPANT = 200 OCCUPANTS
PER TABLE 1020.3 MINIMUM CORRIDOR WIDTH IS 36" FOR FACILITY NOT LISTED IN THE TABLE.

1006 NUMBER OF EXITS AND EXIT ACCESS DOORWAYS
REFER TO LIFE SAFETY PLANS
1006.2.1 EGRESS BASED ON OCCUPANT LOAD AND COMMON PATH OF EGRESS TRAVEL DISTANCE
MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE: 75 FT WITHOUT SPRINKLER SYSTEM
1006.3.1 EGRESS BASED ON OCCUPANT LOAD
MINIMUM NUMBER OF EXITS PER STORY
REQUIRED: 2
ACTUAL: 4

1007 EXIT AND EXIT ACCESS DOORWAY CONFIGURATION
SEPARATION DISTANCE: 1/2 MAXIMUM DIAGONAL OF SPACE SERVED

1010 DOORS, GATES, AND TURNSTILES:
1010.1 DOORS
1010.1.1 MINIMUM CLEAR WIDTH: 32"
1010.2.9 PANIC AND FIRE EXIT HARDWARE:
DOORS SERVING ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 50 OR MORE IN A GROUP A OR E OCCUPANCY TO HAVE PANIC HARDWARE
WE HAVE NO ROOMS (OR OVERALL BUILDING) THAT HAVE AN OCCUPANT LOAD OF 50 OR MORE. NO PANIC HARDWARE IS REQUIRED.

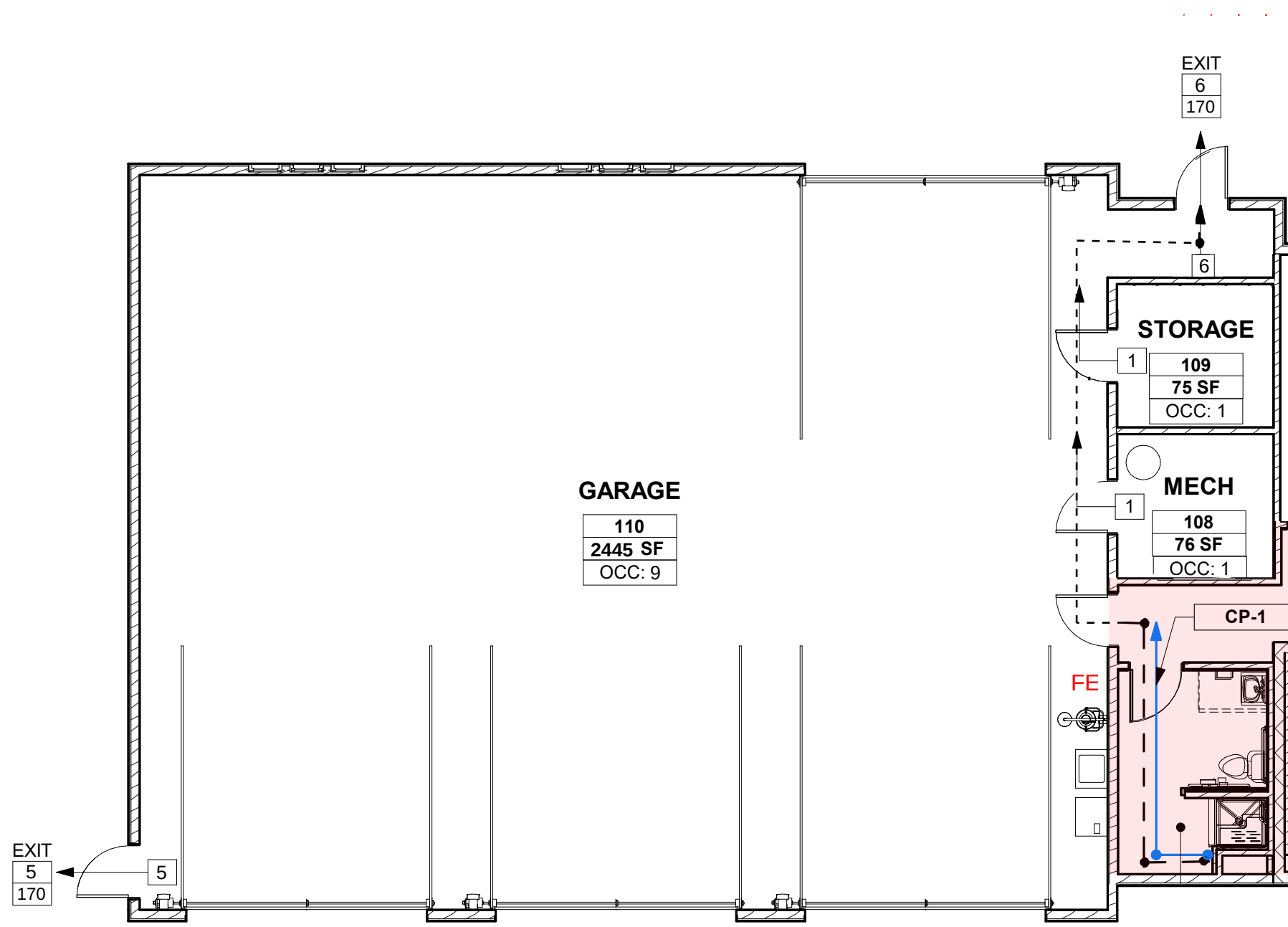
1017 EXIT ACCESS TRAVEL DISTANCE
1017.2 LIMITATIONS
BUSINESS': 200 FT WITHOUT SPRINKLER SYSTEM
*S-2 HAS A LIMITATION OF 300 FT. MAXIMUM ACTUAL EGRESS TRAVEL DISTANCE IS 51'-3"

1020 CORRIDORS
1020.2 CONSTRUCTION
PER TABLE 1020.2 A FIRE RESISTANCE RATING IS NOT REQUIRED FOR USE GROUP B OR S WHERE OCCUPANT LOAD SERVED BY CORRIDOR IS 30 OCCUPANTS OR LESS. ACTUAL OCCUPANT LOAD OF CORRIDOR IS 21.
1020.3 WIDTH AND CAPACITY
36" MINIMUM
1020.5 DEAD END
20' MAXIMUM IN LENGTH

2902 MINIMUM PLUMBING FACILITIES
ACTUAL PLUMBING FIXTURES
2 WATER CLOSETS SERVE 50 OCCUPANTS
2 LAVATORIES SERVE 80 OCCUPANTS
MAXIMUM OCCUPANT LOAD IS 43 IF ALTERNATE FOR ADDITIONAL GARAGE BAY IS ACCEPTED
1 SERVICE SINK IS REQUIRED AND 1 IS PROVIDED IN ROOM 101A
1 DRINKING FOUNTAIN IS REQUIRED. 1 COMMERCIAL BOTTLE WATER DISPENSER IS BEING PROVIDED.

OHIO ENERGY CODE REQUIREMENTS
APPLICABLE CODE: 2021 OHIO ENERGY CODE/2021 IECC
SECTION C301: CLIMATE ZONES: CRAWFORD COUNTY 5A
TABLE C402.1.3 THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS R-VALUE METHOD
ATTIC INSULATION: REQUIRED R-49; PROVIDED R-49
WALLS ABOVE GRADE-WOOD FRAMED: REQUIRED R-20 + R-3.8 CI; PROVIDED R-20 + R-3.8
MASS WALLS (AT STORM SHELTER): REQUIRED R-13.3 CI; PROVIDED R-14
BELOW GRADE WALLS: REQUIRED R-7.5; PROVIDED R-7.5
SLAB ON GRADE FLOORS: REQUIRED R-15 FOR 24"; PROVIDED R-15 FOR 24"

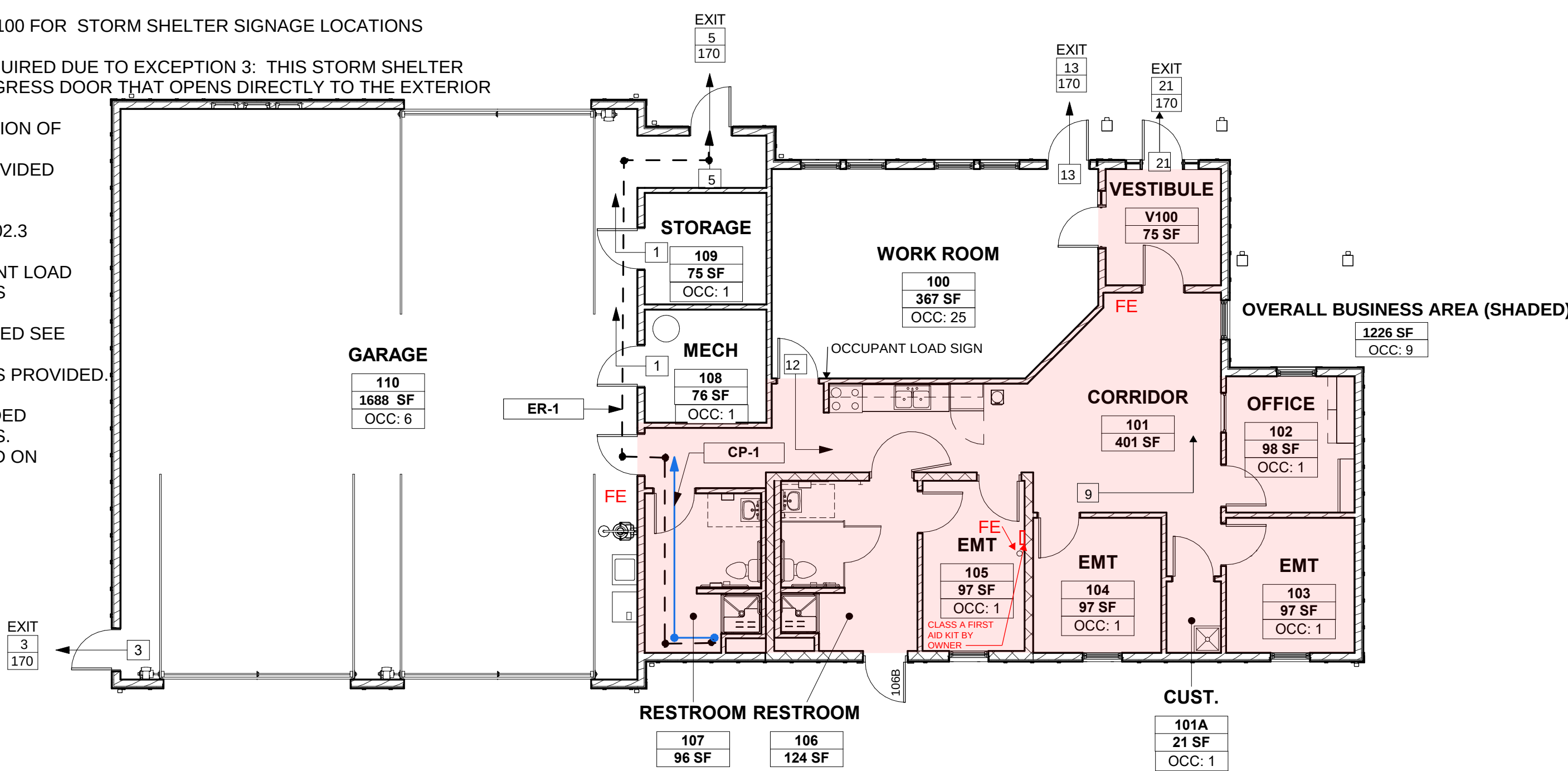
STORM SHELTER REQUIREMENTS
APPLICABLE CODES: 2024 OHIO BUILDING CODE 2020 OHIO STORM SHELTER CODE BASED ON 2020 ICC 500.
OBC 423.4.1 REQUIRED OCCUPANCY CAPACITY: THE MINIMUM REQUIRED OCCUPANT CAPACITY OF STORM SHELTERS SERVING EMERGENCY MEDICAL SERVICE (EMS) STATIONS IS THE DESIGN OCCUPANT LOAD OF ONLY THE SLEEPING ROOMS, MEETING ROOMS AND OFFICES.
MEETING ROOM HAS A DESIGN OCCUPANT LOAD OF 25; SLEEPING ROOMS HAVE A DESIGN OCCUPANT LOAD OF 3 AND OFFICE HAS A DESIGN OCCUPANT LOAD OF 1. THIS TOTALS 29 OCCUPANTS.
OHIO STORM SHELTER CODE-TABLE 502.3: REQUIRES 5 SF PER OCCUPANT. THIS TOTALS 29 OCCUPANTS X 5 SF PER OCCUPANT = 145 SF OVERALL + 5 SF FOR ADDITIONAL AREA FOR 1 WHEELCHAIR USING OCCUPANT = 150 SF. 502.4.2 ALTERNATIVE CALCULATION OF USABLE FLOOR AREA PROVIDES AN ACTUAL AREA OF 153 SF NOT COUNTING BED.
STORM SHELTER IS LOCATED IN ROOMS 105 AND 106-SEE PLAN
504.5 EMERGENCY ESCAPE OPENING: DOOR 106B SERVES AS EMERGENCY ESCAPE OPENING MEETING ALL REQUIREMENTS.
SECTION 508 SIGNAGE: SEE FLOOR PLAN ON SHEET A-100 FOR STORM SHELTER SIGNAGE LOCATIONS MEETING REQUIREMENTS.
603.1 FIRE SEPARATION: FIRE SEPARATION IS NOT REQUIRED DUE TO EXCEPTION 3: THIS STORM SHELTER HAS AN OCCUPANT LOAD LESS THAN 50 AND HAS AN EGRESS DOOR THAT OPENS DIRECTLY TO THE EXTERIOR OF THE BUILDING.
604 FIRE EXTINGUISHER: SEE PLAN BELOW FOR LOCATION OF FIRE EXTINGUISHER IN STORM SHELTER.
702.2.1 DOOR WEATHER SEAL: EXTERIOR DOOR IS PROVIDED WITH A WEATHER SEAL AT BOTTOM OF DOOR.
SEE DOOR HARDWARE SCHEDULE ON SHEET A-600.
702.3 MINIMUM NUMBER OF WATER CLOSETS: TABLE 702.3 REQUIRES 1 WATER CLOSET AND NO LAVATORIES FOR A COMMUNITY STORM SHELTER WITH AN OCCUPANT LOAD OF LESS THAN 50. 1 WATER CLOSET AND 1 LAVATORY IS PROVIDED EXCEEDING CODE REQUIREMENTS.
702.4 VENTILATION: REQUIRED VENTILATION IS PROVIDED SEE HVAC DRAWINGS.
702.5 STANDBY POWER: REQUIRED STANDBY POWER IS PROVIDED. SEE ELECTRICAL DRAWINGS.
702.8 STANDBY LIGHTING: STNDBY LIGHTING IS PROVIDED MEETING REQUIREMENTS. SEE ELECTRICAL DRAWINGS.
702.9 FIRST AID KIT: CLASS A FIRST AID KIT IS LOCATED ON FLOOR PLAN. TO BE PROVIDED BY OWNER.



LIFE SAFETY PLAN (ALTERNATE

#3)

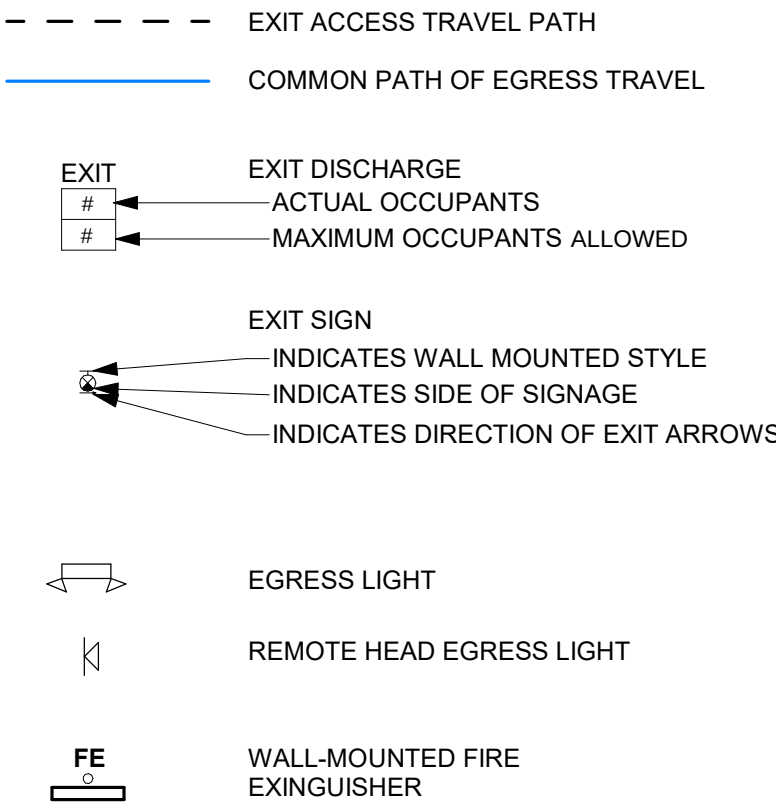
1/8" = 1'-0"



LIFE SAFETY PLAN

1/8" = 1'-0"

LIFE SAFETY LEGEND



CODED NOTES - LIFE SAFETY PLAN

#	DESCRIPTION
1	INSERT NAME

COMMON PATH OF TRAVEL

MARK	LENTH
CP-1	16' - 6"

EXIT ACCESS TRAVEL PATH

MARK	LENTH
ER-1	51' - 3"

LIFE FIRST AMBULANCE DISTRICT

LIFE FIRST AMBULANCE STATION

4585 STATE ROUTE 98
SULPHUR SPRINGS, OH 44881



172 E. STATE ST, SUITE 600
COLUMBUS, OH 43215
PHONE: (614) 942-1050
INFO@WEARETRIAD.COM

BIDDING DOCUMENTS

8/17/2026

REVISIONS:

#	DATE	DESCRIPTION
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DRAWN BY: ADS
CHECKED BY: BG
PROJECT NUMBER: 2613

LS-001
LIFE SAFETY PLAN AND CODE DATA

APPROVED PLANS: THE CIVIL/SITE DRAWINGS PREPARED BY SANDS DECKER FOR THIS PROJECT ARE NOT FOR CONSTRUCTION UNLESS AND UNTIL ALL APPLICABLE APPROVALS HAVE BEEN SECURED AND THE DRAWINGS ARE ISSUED FOR CONSTRUCTION. LAYOUT, FABRICATION OF MATERIALS, CONSTRUCTION, OR ANY CONSTRUCTION-RELATED ACTIVITIES ASSOCIATED WITH THESE DRAWINGS IS NOT TO PROCEED UNTIL SAID APPROVED PLANS ARE ISSUED.

GENERAL: THE CURRENT STATE OF OHIO, DEPARTMENT OF TRANSPORTATION CONSTRUCTION & MATERIAL SPECIFICATIONS (ODOTCMS) TOGETHER WITH THE REQUIREMENTS OF CITY OF BUCYRUS, INCLUDING ALL SUPPLEMENTS THERETO, IN FORCE ON THE DATE OF CONTRACT, SHALL GOVERN ALL MATERIALS & WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THESE PLANS. WHEN THERE IS OR APPEARS TO BE A CONFLICT BETWEEN THE ABOVE REFERENCED SPECIFICATIONS & THESE PLANS, THE MOST STRINGENT REQUIREMENT SHALL GOVERN. UNLESS OTHERWISE SPECIFIED, ALL ITEM NUMBERS REFER TO ODOTCMS.

PROJECT LIMITS: THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT, THE EXISTING RIGHTS-OF-WAY, CONSTRUCTION EASEMENTS & PERMANENT EASEMENTS, & SHALL NOT TRESPASS UPON PRIVATE PROPERTY WITHOUT WRITTEN CONSENT OF THE PROPERTY OWNER.

PROTECTION OF SURVEY MONUMENTS: THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, & ANY OTHER SURVEY MONUMENTS OR MARKERS. IF THE ACTIONS OF THE CONTRACTOR, HIS EMPLOYEES, OR HIS SUB-CONTRACTORS RESULT IN DESTRUCTION OF OR DAMAGE TO ANY OF THE ABOVE ITEMS, THOSE ITEMS SHALL BE ACCURATELY RESTORED, AT THE CONTRACTOR'S EXPENSE, BY A LICENSED SURVEYOR REGISTERED IN THE STATE OF OHIO.

MISCELLANEOUS WORK: ALL ITEMS OF WORK CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR & THE COST OF SAME SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS RELATED ITEMS.

PERMITS: THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS UNLESS OTHERWISE INDICATED IN THESE DOCUMENTS.

TRAFFIC CONTROL: THE CONTRACTOR SHALL USE ADEQUATE LIGHTS, SIGNS, FLAGGERS, & BARRICADES AS REQUIRED IN ITEM 614 TO SAFEGUARD THE TRAVELING PUBLIC AT ALL TIMES. ALL TRENCHES SHALL BE BACKFILLED OR SECURELY PLATED DURING NON-WORKING HOURS. WHERE IT IS ANTICIPATED THAT WORK WILL CLOSE A ROAD OR STREET, THE CONTRACTOR SHALL INFORM THE RESIDENTS TO BE AFFECTED, THE LOCAL LAW ENFORCEMENT AGENCY, THE LOCAL FIRE DEPARTMENT, & THE ENGINEER AS TO THE EXTENT, NATURE, & THE TIME OF THE ANTICIPATED WORK. THE CONTRACTOR SHALL SUBMIT A PLAN & SCHEDULE FOR DETOURING TRAFFIC 10 DAYS PRIOR TO THE CLOSING OF ANY ROAD OR STREET TO THE ENGINEER & ROAD OWNER. DURING A CLOSING OF A ROAD OR STREET, THE CONTRACTOR SHALL PROVIDE ACCESS TO PROPERTIES FOR EMERGENCY VEHICLES & THE PROPERTY OWNERS. NO ROAD OR STREET SHALL BE CLOSED UNTIL THE SCHEDULE IS APPROVED BY THE AGENCY HAVING CONTROL OF THE ROAD.

SAFETY OF CONSTRUCTION: THE CONTRACTOR SHALL COMPLY WITH THE FEDERAL OCCUPATIONAL SAFETY & HEALTH ACT OF 1970 (OSHA) & ALL OTHER APPLICABLE FEDERAL, STATE, & LOCAL LAWS, REGULATIONS, FINDINGS & ORDERS RELATIVE TO SAFETY & HEALTH CONDITIONS ON THE WORK SITE. CONSTRUCTION METHODS FOR COMPLETING THE WORK DESCRIBED IN THESE CONTRACT DOCUMENTS SHALL BE CONSISTENT WITH THE OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA) AMENDED CONSTRUCTION STANDARDS FOR EXCAVATIONS, 29 CFR PART 1926, SUB-PART P, EFFECTIVE MARCH 5, 1990.

EROSION & SEDIMENT CONTROL: PROJECTS DISTURBING LESS THAN ONE ACRE & NOT PART OF A LARGER COMMON PLAN OF DEVELOPMENT ARE NOT REQUIRED TO SUBMIT A NOTICE OF INTENT (NOI) TO THE OHIO EPA FOR COVERAGE UNDER THEIR GENERAL CONSTRUCTION STORM WATER PERMIT & ARE NOT REQUIRED TO MAINTAIN A STORM WATER POLLUTION PREVENTION PLAN (SWP3) ON SITE. THE CONTRACTOR SHALL, HOWEVER, INSTALL & MAINTAIN SILT FENCES, DITCH CHECKS, TEMPORARY SEEDING, & OTHER MEASURES AS NECESSARY TO CONTROL SOIL EROSION & PREVENT SEDIMENT-LADEN RUN-OFF FROM EXITING THE SITE OR ENTERING STORM SEWER SYSTEMS OR DRAINAGE WAYS.

BORROW MATERIAL & SURPLUS EXCAVATION: THE SITE SHALL BE CONSTRUCTED TO THE FINAL GRADES SHOWN ON THE PLANS. WHERE NECESSARY, THE CONTRACTOR SHALL OBTAIN SUITABLE BORROW MATERIAL ON-SITE OR OFF-SITE AS NEEDED TO COMPLETE THE SITE CONSTRUCTION AS DESCRIBED HEREIN. THE CONTRACTOR SHALL DISPOSE OF ALL SURPLUS EXCAVATION ON SITE &, IF NECESSARY, SHALL HAUL SURPLUS EXCAVATED MATERIAL AWAY FROM THE SITE & DISPOSE OF PROPERLY.

EXISTING UTILITIES: THE INFORMATION SHOWN CONCERNING EXISTING UTILITIES IS APPROXIMATE. THE LOCATION, SIZES, & OTHER INFORMATION SHOWN IS ONLY AS ACCURATE AS THAT PROVIDED ON THE EXISTING SITE SURVEY. THE EXISTING SITE SURVEY WAS PROVIDED BY OTHERS & SANDS DECKER CPS, LLC ASSUMES NO LIABILITY FOR ERRORS OR OMISSIONS THEREIN. THE CONTRACTOR IS RESPONSIBLE TO PHYSICALLY LOCATE & VERIFY, IN THE FIELD, THE HORIZONTAL & VERTICAL LOCATIONS OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO THE BEGINNING OF CONSTRUCTION. THE CONTRACTOR SHALL SUPPORT, PROTECT & RESTORE ALL EXISTING UTILITIES & THEIR ASSOCIATED ITEMS. THE CONTRACTOR SHALL ADHERE TO ALL APPLICABLE SECTIONS OF THE OHIO REVISED CODE INCLUDING SECTIONS 153.64 & 3781.28. THE CONTRACTOR SHALL NOTIFY THE REGISTERED UTILITY PROTECTION SERVICE & ALL UTILITY OWNERS HAVING FACILITIES IN THE CONSTRUCTION AREA WHO ARE NOT MEMBERS OF A REGISTERED UNDERGROUND UTILITY PROTECTION SERVICE. THE CONTRACTOR SHALL GIVE NOTIFICATION AS REQUIRED BY OHIO REVISED CODE, AT LEAST TWO (2) & NOT MORE THAN TEN (10) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS, EXCLUDING SATURDAYS, SUNDAYS, & LEGAL HOLIDAYS, & SHALL COORDINATE HIS WORK WITH THE UTILITY OWNERS UNTIL HIS WORK IS COMPLETED. THE CONTRACTOR SHALL KEEP THE UTILITY OWNERS APPRISED OF HIS SCHEDULE & REQUIREMENTS & SHALL PROVIDE THE PROJECT OWNER WITH EVIDENCE OF HAVING NOTIFIED THE UTILITIES & PROVIDED THEM WITH HIS WORK SCHEDULE PRIOR TO BEGINNING ANY WORK.

DRAINAGE TILE: ALL FARM DRAINS, ROADWAY DRAINS, & OTHER DRAINAGE TILE WHICH ARE ENCOUNTERED WITHIN THE CONSTRUCTION LIMITS DURING CONSTRUCTION SHALL BE PROVIDED WITH AN UNOBSTRUCTED OUTLET. EXISTING COLLECTOR TILES WHICH ARE LOCATED BELOW THE PROPOSED FINISHED ELEVATION & WHICH CROSS THE TRENCH SHALL BE REPLACED WITHIN THE TRENCH LIMITS BY ITEM 611 CONDUIT. THE LOCATION, TYPE, SIZE, & GRADE OF THE REQUIRED REPLACEMENT SHALL BE DETERMINED BY THE PROJECT ENGINEER OR HIS SITE REPRESENTATIVE DURING CONSTRUCTION. NECESSARY BENDS OR FITTINGS, COMPACTED GRANULAR BACKFILL, & ASSOCIATED ITEMS SHALL BE INCLUDED IN THE BID PRICE.

TEMPORARY PAVEMENT: TEMPORARY PAVEMENT REPLACEMENT SHALL BE PROVIDED ON PERMANENT PAVEMENT DAMAGED OR REMOVED BY THE CONTRACTOR IN THE PERFORMANCE OF THE WORK. AS SOON AS THE TRENCH HAS BEEN BACKFILLED, TEMPORARY PAVEMENT SHALL BE INSTALLED. THE ENGINEER MAY REQUIRE THAT ALL MATERIALS & EQUIPMENT INCIDENTAL TO PROVIDING THE TEMPORARY PAVEMENT BE ON THE JOB SITE PRIOR TO REMOVING THE EXISTING PAVEMENT. TEMPORARY PAVEMENT SHALL CONSIST OF 2" OF BITUMINOUS COLD MIX PLACED UPON 6" OF COMPACTED ITEM 304, AGGREGATE BASE. TEMPORARY PAVEMENT SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL PERMANENT PAVEMENT IS INSTALLED.

PERMANENT PAVEMENT: WHERE DAMAGED OR REMOVED, THE PAVEMENT SHALL BE REPLACED BY FIRST REMOVING TEMPORARY PAVEMENT DOWN TO CLEAN GRANULAR MATERIAL & REMOVING EXISTING PAVEMENT FOR AT LEAST 12" BEYOND THE TRENCH LIMITS ON EACH SIDE. PAVEMENT TO BE REMOVED SHALL BE NEATLY SAWED NOT MORE THAN 72 HOURS PRIOR TO THE PLACING OF PERMANENT PAVEMENT MATERIALS. PERMANENT PAVEMENT REPLACEMENT MATERIALS & WORKMANSHIP SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS. ITEM 407, TACK COAT, SHALL BE APPLIED TO THE EXPOSED EXISTING PAVEMENT EDGES WHEN EITHER THE EXISTING OR NEW PAVEMENT IS BITUMINOUS MATERIAL. WHEN THE PERMANENT PAVEMENT IS BITUMINOUS MATERIAL, ITEM 407, TACK COAT SHALL BE APPLIED TO BITUMINOUS OR CONCRETE BASE MATERIAL PRIOR TO THE PLACING OF THE PERMANENT PAVEMENT.

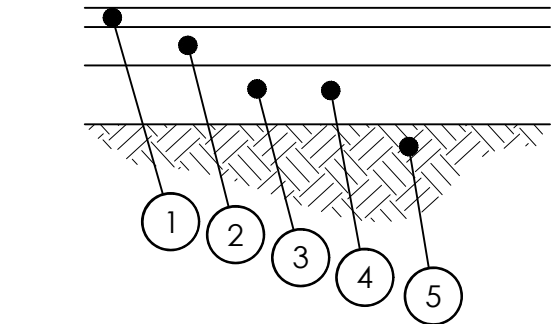
NEW PAVEMENT DESIGN: PAVEMENT DETAILS SHOWN HEREIN ARE BASED ON THE DESIGN RECOMMENDATIONS FOUND IN THE SITE GEOTECHNICAL REPORT DATED 05/13/2026 AS PREPARED BY GEOTECHNICAL CONSULTANTS INC. SANDS DECKER CPS, LLC PROVIDES NO GUARANTEE AND ASSUMES NO LIABILITY FOR THE USEFUL LIFE AND/OR PERFORMANCE OF SAID DESIGN RECOMMENDATIONS.

INSTALLATION IN EMBANKMENT: WHERE UTILITIES ARE TO BE INSTALLED IN EMBANKMENT AREAS, THE EMBANKMENT SHALL BE PLACED & COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS, A MINIMUM OF 2' ABOVE THE PIPE BUT SUFFICIENTLY ABOVE THE PIPE TO PROTECT THE PIPE FROM DAMAGE DUE TO FURTHER CONSTRUCTION ACTIVITIES PRIOR TO THE INSTALLATION OF THE UTILITY.

CONFLICTS IN GRADE: IN ALL CONFLICTS IN GRADE BETWEEN THE WATER LINES OR WATER SERVICES & OTHER EXISTING UTILITIES, THE WATER LINE/SERVICE LINE SHALL BE LOWERED DURING CONSTRUCTION. A MINIMUM 18" VERTICAL & 10' HORIZONTAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE WATER LINE & ANY SANITARY OR STORM SEWER; 12' MINIMUM VERTICAL CLEARANCE FOR OTHER UTILITIES. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES AHEAD OF HIS CONSTRUCTION OPERATIONS TO ALLOW FOR ADJUSTMENTS IN GRADE TO THE WATER LINE THAT MAY BE REQUIRED AS A RESULT OF POTENTIAL CONFLICTS WITH AN EXISTING UTILITY. NO ADDITIONAL COMPENSATION WILL BE MADE TO THE CONTRACTOR FOR LOWERING THE WATER LINE TO AVOID CONFLICTS WITH EXISTING UTILITIES.

MANHOLE TOPS: WHERE MANHOLES ARE LOCATED WITHIN PUBLIC OR PRIVATE PAVEMENT, SIDEWALK, CONCRETE PAD OR PAVED SHOULDER, THE TOPS SHALL BE BUILT TO EXISTING PAVEMENT ELEVATIONS. ELSEWHERE MANHOLES SHALL BE BUILT OR SUBSEQUENTLY ADJUSTED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE MANHOLE. THE COST OF ADJUSTMENT IS TO BE INCLUDED IN THE PRICE BID FOR THE MANHOLE.

FINAL GRADING & CLEAN-UP: THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS & MATERIALS RESULTING FROM HIS OPERATION & RESTORE ALL SURFACES, STRUCTURES, DITCHES, SIGNS, MAILBOXES, FENCES, GUARDRAILS, OR OTHER PHYSICAL FEATURES OR PROPERTY DISTURBED OR DAMAGED DURING WORK UNDER THIS CONTRACT TO THEIR ORIGINAL CONDITION TO THE SATISFACTION OF THE ENGINEER. THE COST OF ALL SUCH WORK SHALL BE INCLUDED WITH THE VARIOUS RELATED ITEMS.

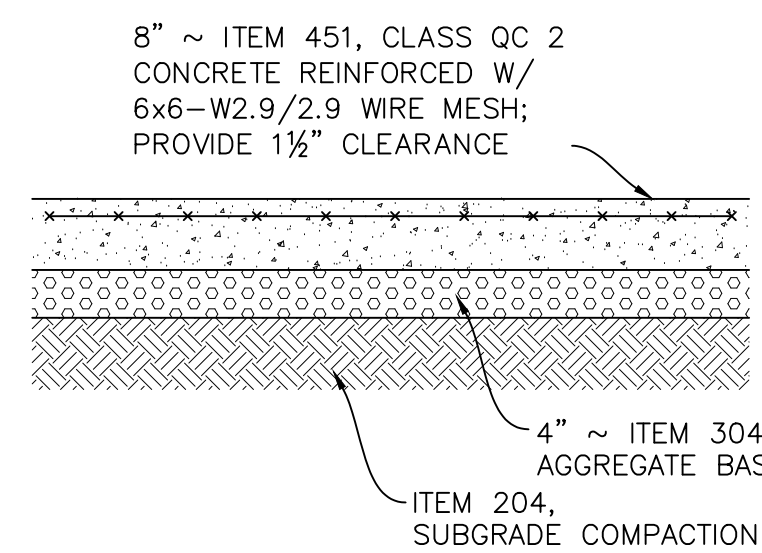


1. 2.5" ~ NO. 8 LIMESTONE
2. 4" ~ ITEM 304, AGGREGATE BASE
3. 6" ~ NO. 2 STONE
4. ITEM 204, GEOTEXTILE FABRIC, 712.09, TYPE D
5. ITEM 204, SUBGRADE COMPACTION

GRAVEL PAVEMENT

NOT TO SCALE

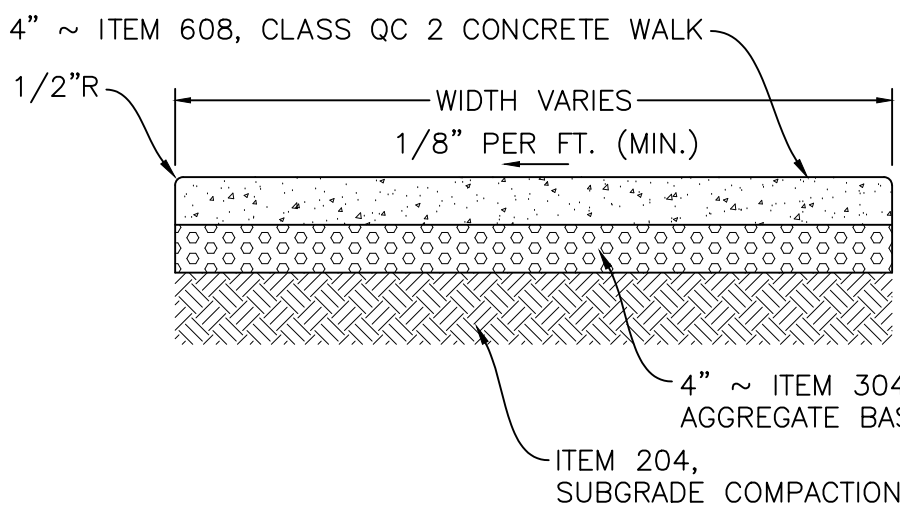
1



CONCRETE APRON

NOT TO SCALE

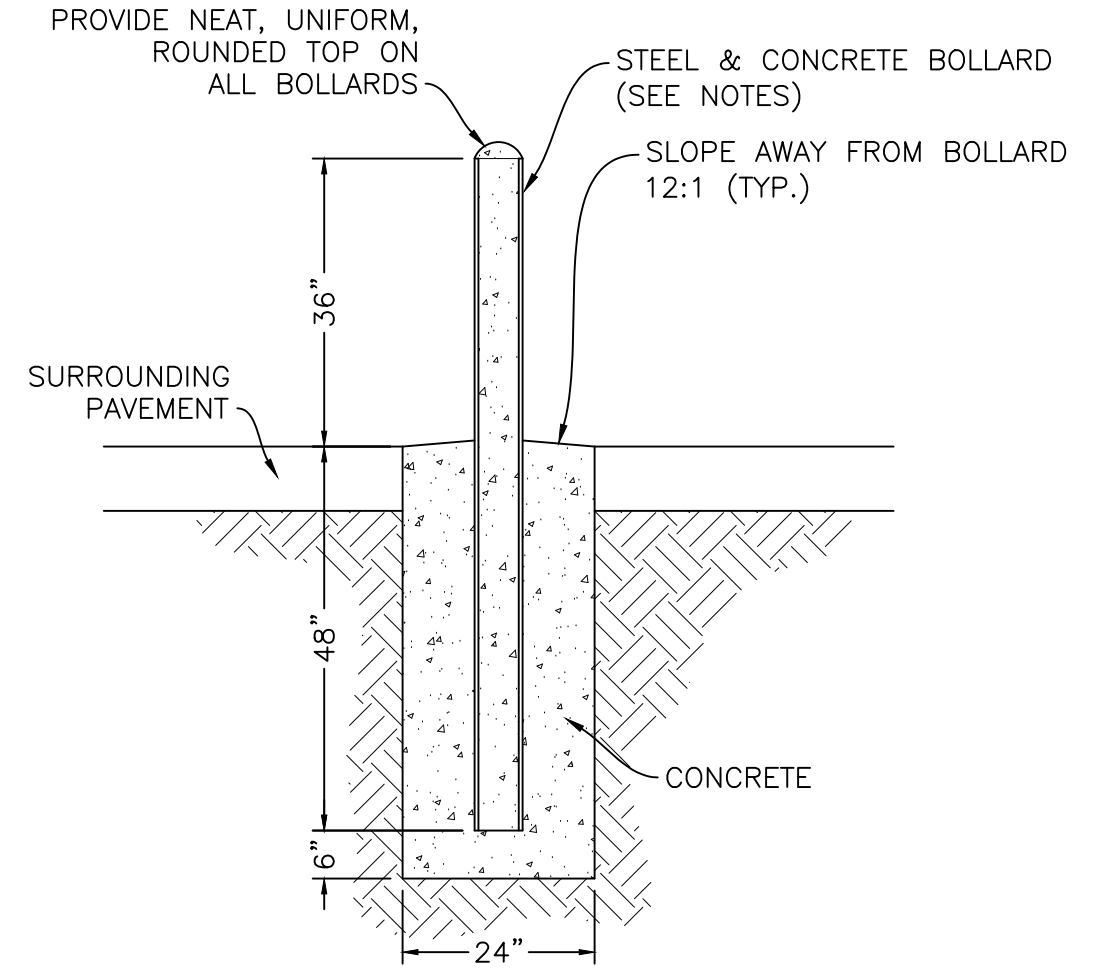
2



CONCRETE SIDEWALK

NOT TO SCALE

3



METAL BOLLARD

NOT TO SCALE

4

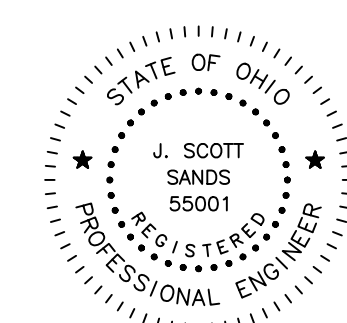


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422 North Broad Street
Lancaster, Ohio 43130
740-385-2140

507 Main Street
Zanesville, Ohio 43701
740-450-1640



J. Scott Sands 07-03-26
Registered Engineer Date

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LIFE FIRST AMBULANCE DISTRICT

LIFE FIRST AMBULANCE STATION

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BIDDING DOCUMENTS

8/17/2026

REVISIONS:

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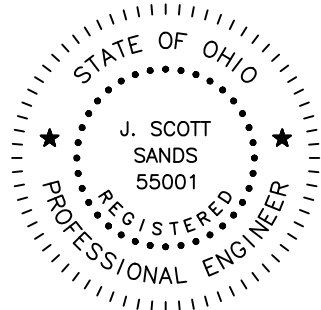
INDEX OF SHEETS

- C-101 GENERAL NOTES & SITE DETAILS
- C-102 UTILITY DETAILS
- C-201 EXISTING SITE SURVEY
- C-202 SITE DEMOLITION PLAN
- C-301 SITE DIMENSION & UTILITY PLAN
- C-401 SITE GRADING PLAN
- C-402 STORM WATER POLLUTION PREVENTION NOTES & DETAILS
- C-501 ONSITE TREATMENT TITLE SHEET
- C-502 SITE PLAN
- C-503 SCHEMATIC & HYDRAULIC ELEVATIONS
- C-504 ONSITE TREATMENT CALCULATIONS
- C-505 ONSITE TREATMENT DOSING
- C-506 CONSTRUCTION DETAILS, SYSTEM SPECIFICATIONS
- C-507 ONSITE TREATMENT O & M

DRAWN BY: BCK
CHECKED BY: JSS
PROJECT NUMBER: 5293

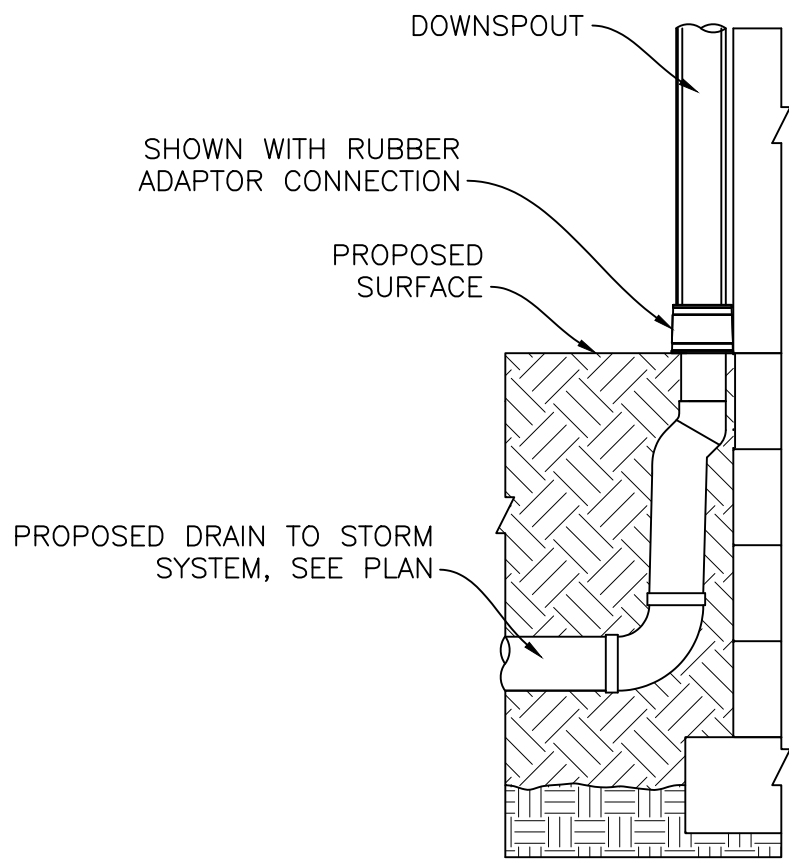
C-101

GENERAL
NOTES & SITE
DETAILS



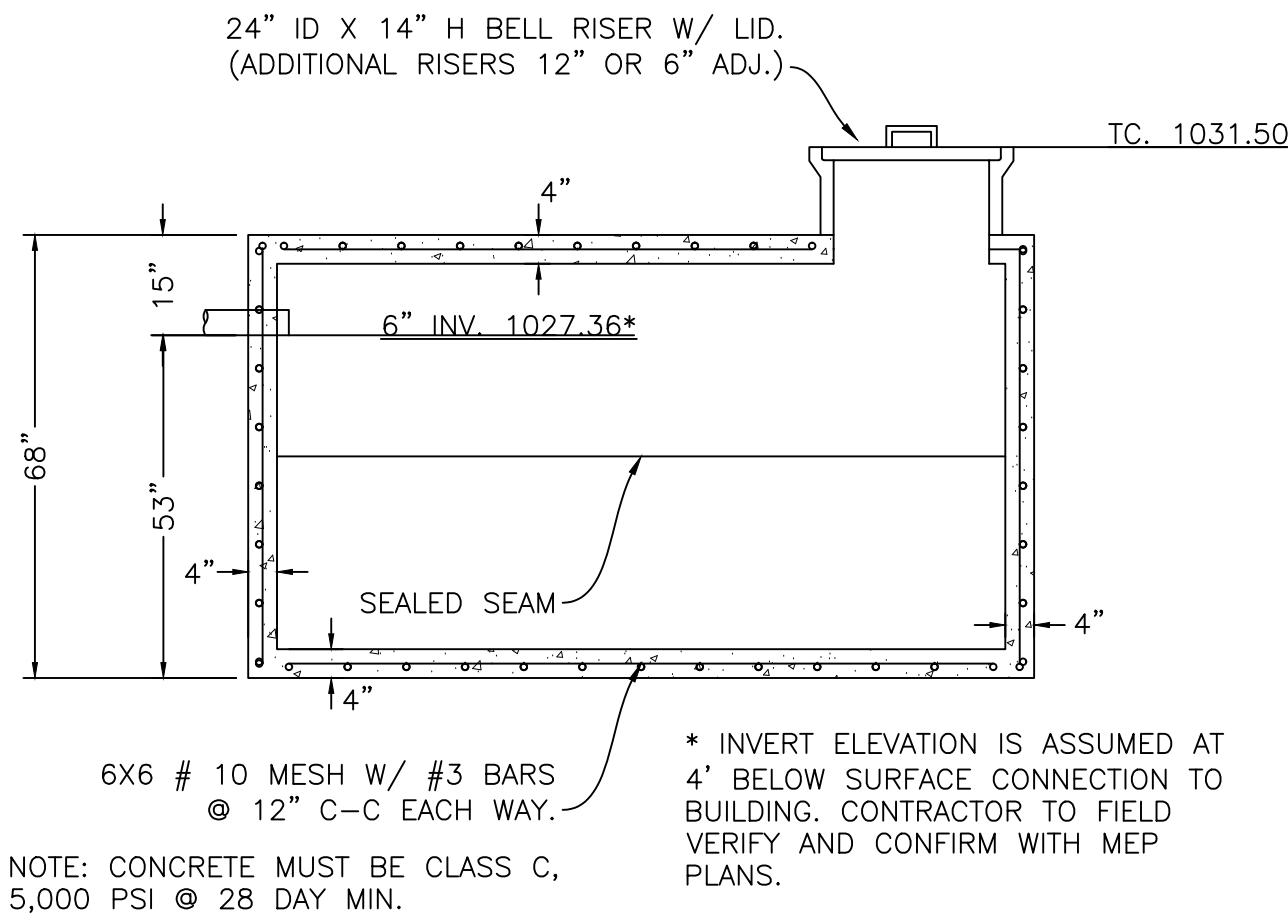
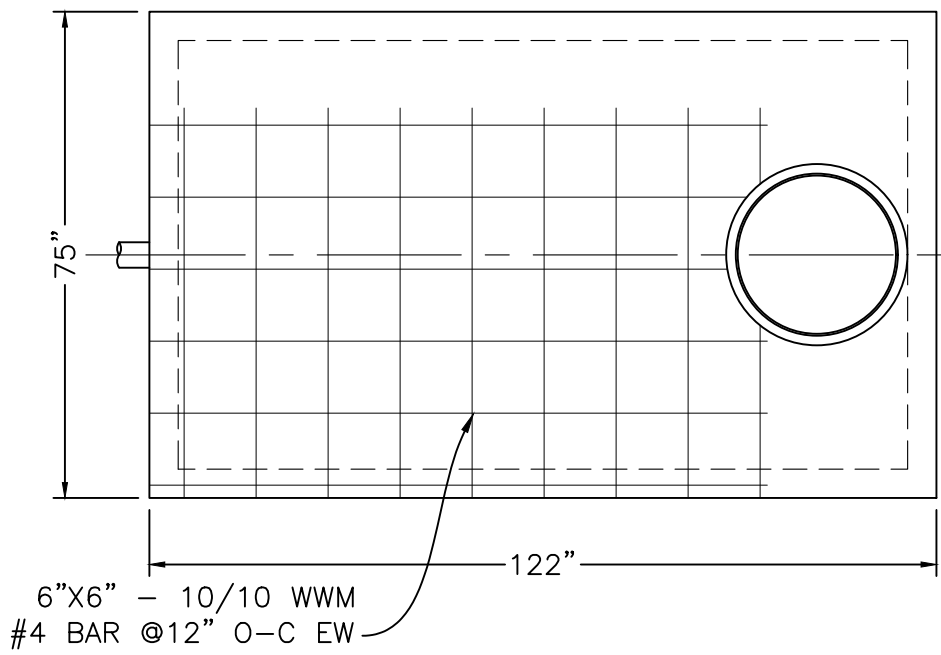
J. Scott Sands 07-03-26
Registered Engineer Date

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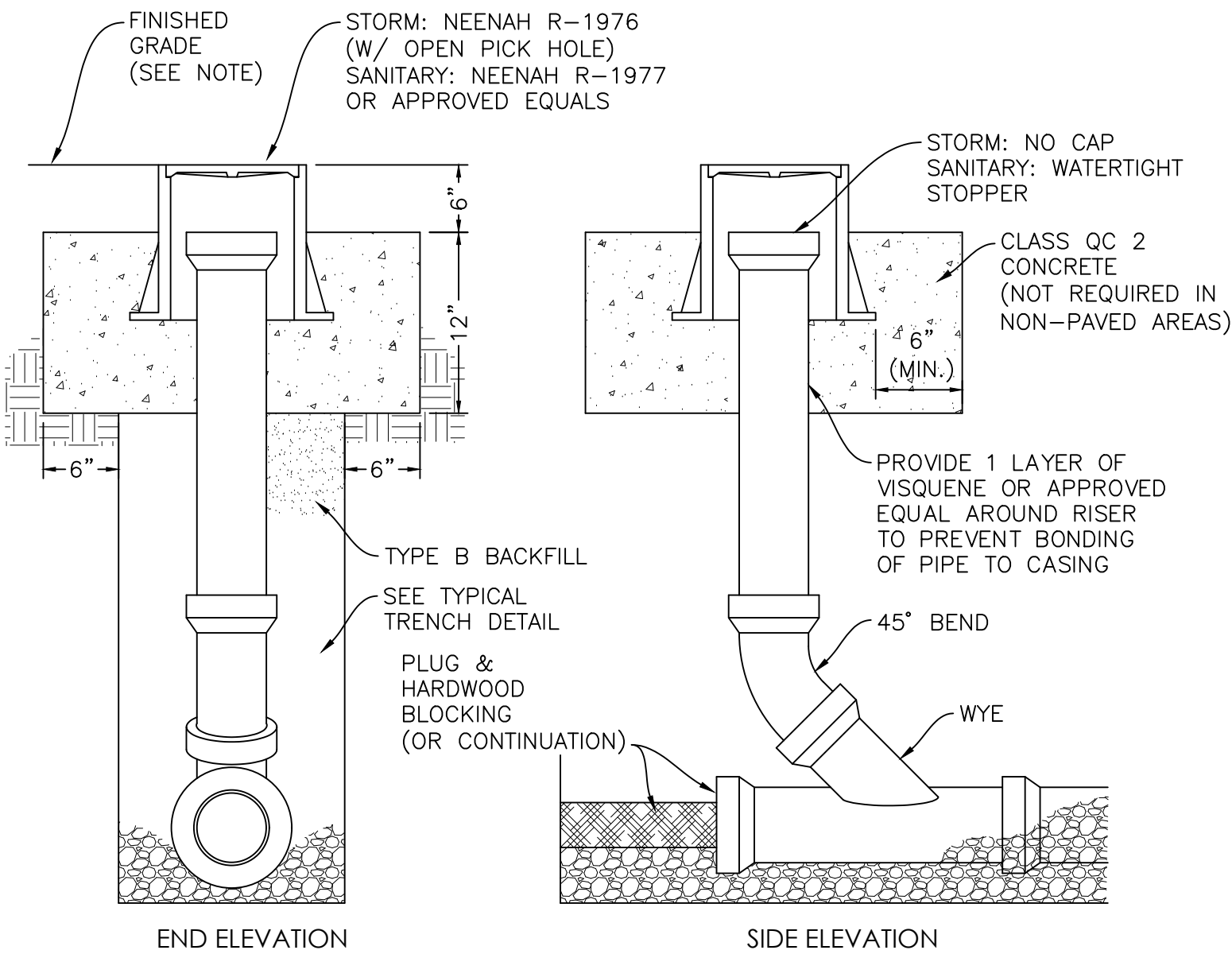
TYP. DOWNSPOUT
CONNECTION

NOT TO SCALE



1500 GALLON
HOLDING TANK

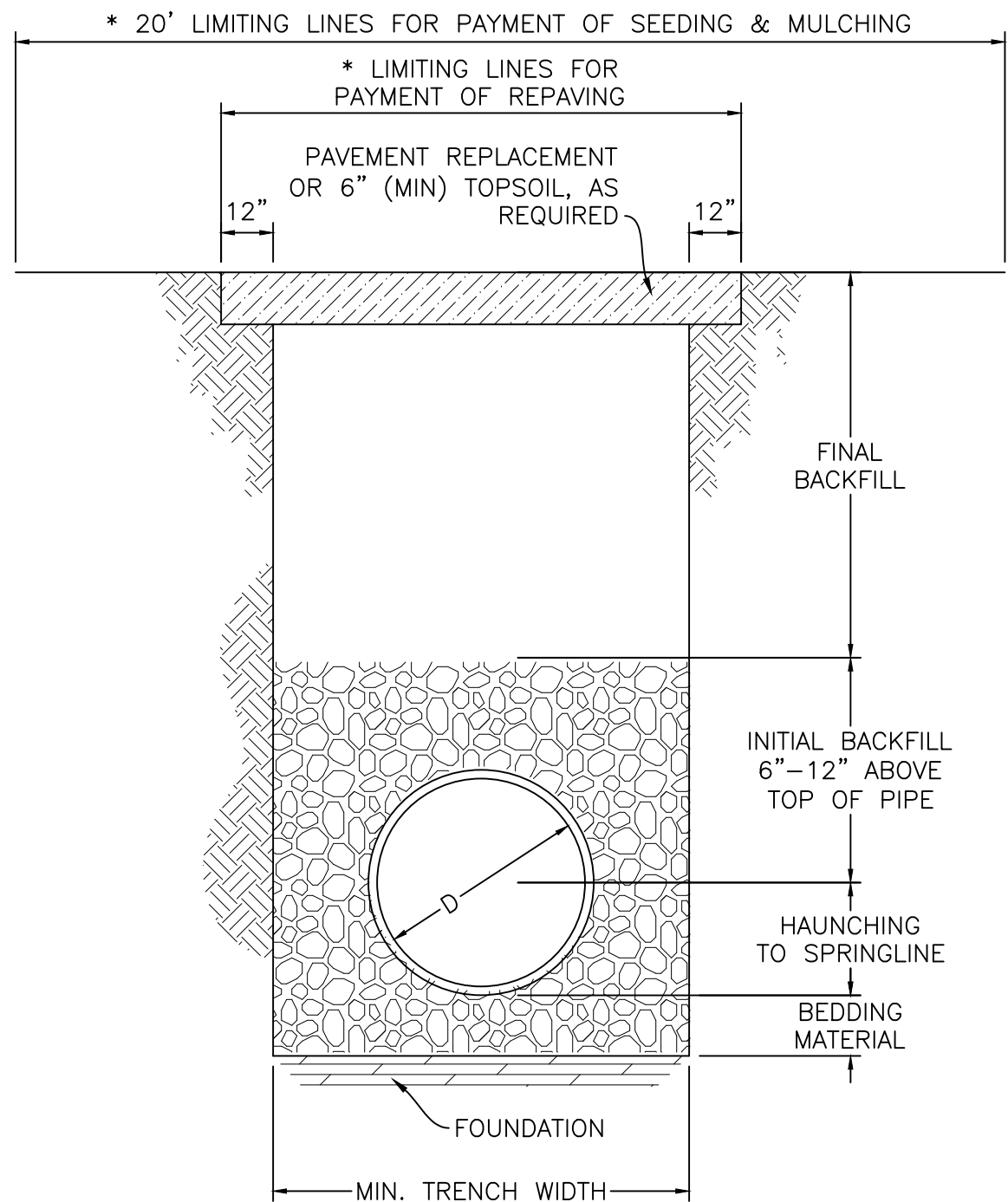
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NOTE: CLEANOUT TOP OF CASTING SHALL BE SET FLUSH WITH FINISHED GRADE IN PAVEMENT AREAS OR 2" MIN. TO 4" MAX. ABOVE FINISHED GRADE IN NON-PAVED AREAS.

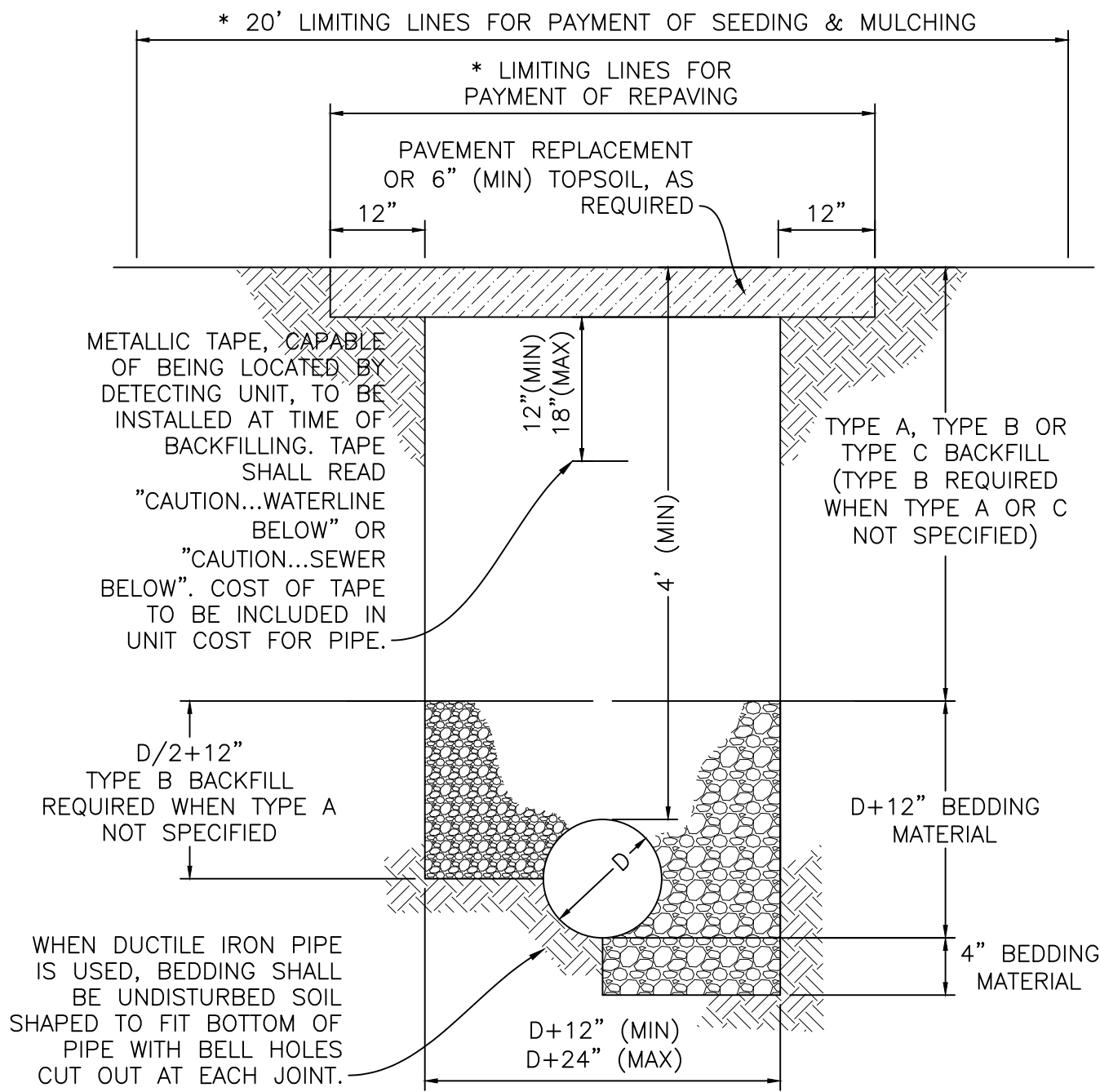
CLEANOUT

NOT TO SCALE



TYP. TRENCH
CORRUGATED PE PIPE

NOT TO SCALE



TYP. TRENCH
FOR WATER MAINS
OR SEWER FORCE MAINS

NOT TO SCALE

NOTES:

1. FOUNDATION: WHERE TRENCH BOTTOM IS UNSTABLE, CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER & REPLACE WITH A FOUNDATION OF CLASS I OR II MATERIAL AS DEFINED IN ASTM D2321, "STANDARD PRACTICE FOR INSTALLATION OF THERMOPLASTIC PIPE FOR SEWER & OTHER GRAVITY-FLOW APPLICATIONS", LATEST EDITION. AS AN ALTERNATIVE & AT THE DISCRETION OF THE ENGINEER, TRENCH BOTTOM MAY BE STABILIZED USING WOVEN GEOTEXTILE FABRIC.
2. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III, & INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.

UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MIN. BEDDING THICKNESS SHALL BE 4" FOR 4"-24" & 42"-48" PIPE & 6" FOR 30"-36" PIPE.

3. HAUNCHING & INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III, & INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.

4. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MIN. RECOMMENDED TRENCH WIDTHS SHALL BE AS FOLLOWS:

NOMINAL Ø	MIN. WIDTH
4"	21"
6"	23"
8"	25"
10"	28"
12"	31"
15"	34"
18"	39"
24"	48"
30"	66"
36"	78"
42"	83"
48"	89"
60"	102"

5. THE EXCAVATED TRENCH WIDTH TWELVE INCHES (12") ABOVE THE CONDUIT MAY BE INCREASED WITHOUT EXTRA COMPENSATION.

MINIMUM COVER: MIN. RECOMMENDED DEPTHS OF COVER FOR VARIOUS LIVE LOADING CONDITIONS ARE AS FOLLOWS. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE FROM TOP OF PIPE TO GROUND SURFACE.

SURFACE LIVE LOADING CONDITION	MIN. COVER
H25 (FLEXIBLE PAVEMENT)	12" **
H25 (RIGID PAVEMENT)	12"
E80 RAILWAY	24"
HEAVY CONSTRUCTION	48"

** TOP OF PIPE TO BOTTOM OF BITUMINOUS PAVEMENT SECTION.

NOTES:

1. ITEM NUMBERS REFER TO STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIAL SPECIFICATIONS.
2. AGGREGATE FOR BEDDING IS NO. 57, NO. 6, NO. 67, NO. 68, OR NO. 7, ITEM 703.

3. TYPE A BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL AS SPECIFIED IN ITEM 304, GRADE A. TYPE A BACKFILL SHALL BE USED WHEN THE TRENCH IS 5' OR LESS FROM ANY PAVED OR GRAVEL SURFACE, OR BENEATH THE PAVEMENT OR GRAVEL. COMPACTION SHALL MEET THE REQUIREMENTS OF ITEM 203.

4. TYPE B BACKFILL SHALL BE NATURAL SOIL FREE FROM STONES LARGER THAN 2" ACROSS THEIR GREATEST DIMENSION, TOPSOIL, VEGETATION, DEBRIS, RUBBISH, OR FROZEN MATERIAL, COMPACTED TO 95% OF ITS MAXIMUM LABORATORY DRY WEIGHT.

5. TYPE C BACKFILL SHALL BE NATURAL SOIL FREE FROM STONES LARGER THAN 6" ACROSS THEIR GREATEST DIMENSION, TOPSOIL, VEGETATION, DEBRIS, RUBBISH, OR FROZEN MATERIAL, COMPACTED TO 90% OF ITS MAXIMUM LABORATORY DRY WEIGHT. WHEN APPROVED BY THE ENGINEER, STONES NO LARGER THAN ONE CUBIC FOOT MAY BE DEPOSITED AT LEAST 3' ABOVE THE TOP OF THE PIPE.

6. THE EXCAVATED TRENCH WIDTH 12" ABOVE THE CONDUIT MAY BE INCREASED WITHOUT EXTRA COMPENSATION.

7. RIGID PIPE SHALL BE DUCTILE IRON, THICKNESS CLASS 53, PRESSURE RATING 350. FLEXIBLE PIPE SHALL BE PVC C-900 DR14 FOR SIZES UP TO 12" AND PVC C-905 DR18 FOR LARGER SIZES.

8. WHEN CALLED FOR ON THE CONSTRUCTION DRAWINGS, ENCASEMENT SHALL BE CLASS C CONCRETE.

9. SECTIONS ARE SYMMETRICAL ABOUT THE CENTERLINE.

10. GRANULAR BEDDING AND BACKFILL SHALL NOT BE REQUIRED FOR DUCTILE IRON PIPE UNLESS WITHIN LIMITS REQUIRING GRANULAR BACKFILL FOR ROADS AND DRIVEWAYS.

LIFE FIRST AMBULANCE
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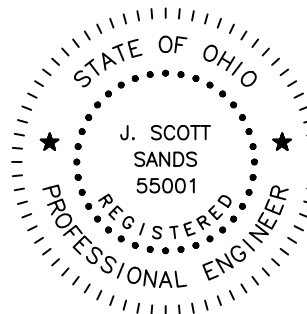
8/17/2026

REVISIONS:

#	DATE	DESCRIPTION
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DRAWN BY: BCK
CHECKED BY: JSS
PROJECT NUMBER: 5293

C-102
UTILITY
DETAILS



J. Scott Sands
Registered Engineer Date 07-03-26

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DISTRICT

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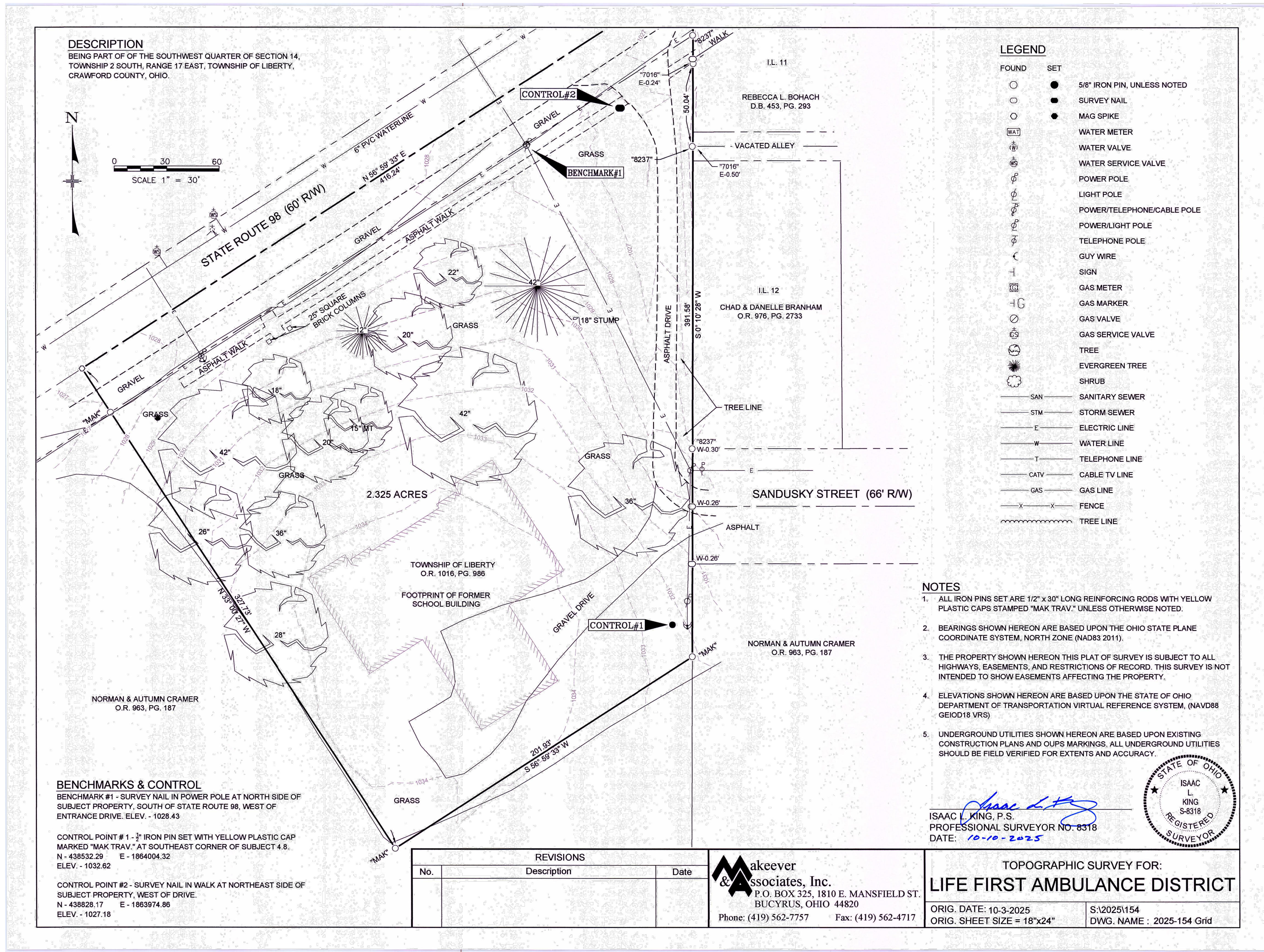
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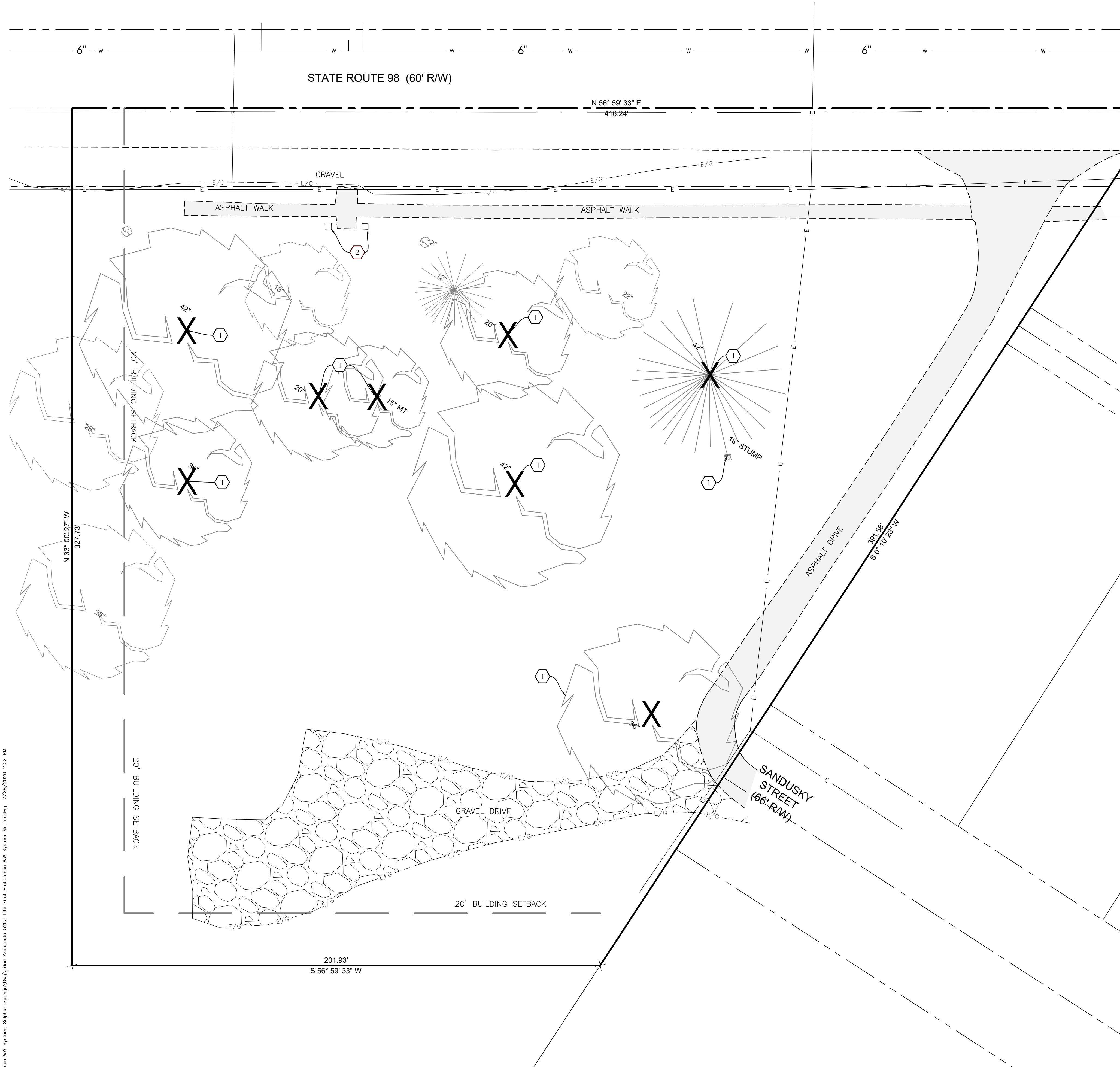


SURVEY WAS PROVIDED BY MAKEEVER & ASSOCIATES.
SANDS DECKER ASSUMES NO LIABILITY FOR ERRORS OR
OMISSIONS THEREIN. ANY QUESTIONS REGARDING THE
SURVEY SHOULD BE DIRECTED TO

ISAAC L. KING P.S.
MAKEEVER & ASSOCIATES
419-562-7757 OFFICE EX. 116
330-618-9436

DRAWN BY: BCK
CHECKED BY: JSS
PROJECT NUMBER: 5293

C-201
EXISTING SITE
SURVEY



DEMOLITION KEYNOTES

- 1. TREE/SHRUB, STUMP & OTHER LANDSCAPING & MULCH MATERIALS TO BE REMOVED, TYP. TREE REMOVAL MUST OCCUR BETWEEN OCTOBER 1 – MARCH 31. IF TREE REMOVAL OCCURS OUTSIDE THIS TIME FRAME, A EMERGENT BAT SURVEY IS REQUIRED & THE CONTRACTOR MUST VERIFY THERE IS NO PRESENCE OF ENDANGERED SPECIES.
- 2. 25" SQUARE BRICK COLUMNS TO REMAIN.

MISC. NOTES

- ALL ITEMS NOTED FOR DEMOLITION SHALL BE REMOVED & RECYCLED OR DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, & LOCAL REGULATIONS, UNLESS OTHERWISE DIRECTED BY THE OWNER.
- CONTRACTOR SHALL COORDINATE THE DISCONNECTION & REMOVAL &/OR ABANDONMENT OF UTILITIES, SERVICES & APPURTENANCES WITH THE APPROPRIATE UTILITY OWNERS AS NECESSARY & SHALL MEET ALL APPLICABLE FEDERAL, STATE, & LOCAL CODES & REQUIREMENTS. ANY ABANDONED OR INACTIVE UTILITIES ENCOUNTERED ONSITE, WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE REMOVED TO THE PROPERTY LINE & CAPPED.
- THE REMOVAL OF ANY ITEMS WHICH HAVE IN-GROUND FOUNDATIONS, BASES OR FOOTERS OF ANY KIND SHALL INCLUDE COMPLETE REMOVAL OF SAID FOUNDATIONS.
- OWNER HAS THE FIRST RIGHT OF REFUSAL FOR ITEMS TO BE SALVAGED.
- UNLESS OTHERWISE NOTED, CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO TREES WHENEVER POSSIBLE.
- EROSION CONTROL MEASURES SHALL BE IN PLACE & OPERATIONAL PRIOR TO GROUND DISTURBANCE. SEE STORM WATER POLLUTION PREVENTION NOTES & DETAILS.
- ANY VOIDS REMAINING AFTER DEMOLITION WHICH DO NOT LIE WITHIN THE LIMITS OF OTHER PROP. IMPROVEMENTS SHALL BE BROUGHT TO GRADE USING SUITABLE FILL & 6" OF TOPSOIL FINISHED WITH SEEDING & MULCHING PER SPECIFICATIONS. FINAL GRADE SHALL NOT IMPEDE POSITIVE DRAINAGE.

LEGEND

- ASPHALT PAVEMENT TO REMAIN.
- GRAVEL PAVEMENT TO BE REMOVED.

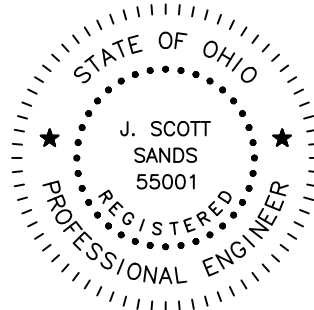


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1495 Old Henderson Road
Columbus, Ohio 43220
614-459-6992

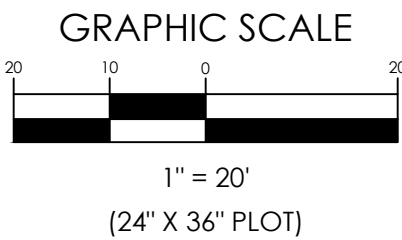
422 North Broad Street
Lancaster, Ohio 43130
740-385-2140

507 Main Street
Zanesville, Ohio 43701
740-450-1640



J. Scott Sands 07-03-26
Registered Engineer Date

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LIFE FIRST AMBULANCE DISTRICT

LIFE FIRST AMBULANCE STATION

4585 STATE ROUTE 98
SULPHUR SPRINGS, OH 44881



172 E. STATE ST, SUITE 600
COLUMBUS, OH 43215
PHONE: (614) 942-1050
INFO@WEARETRIAD.COM

BIDDING DOCUMENTS
8/17/2026

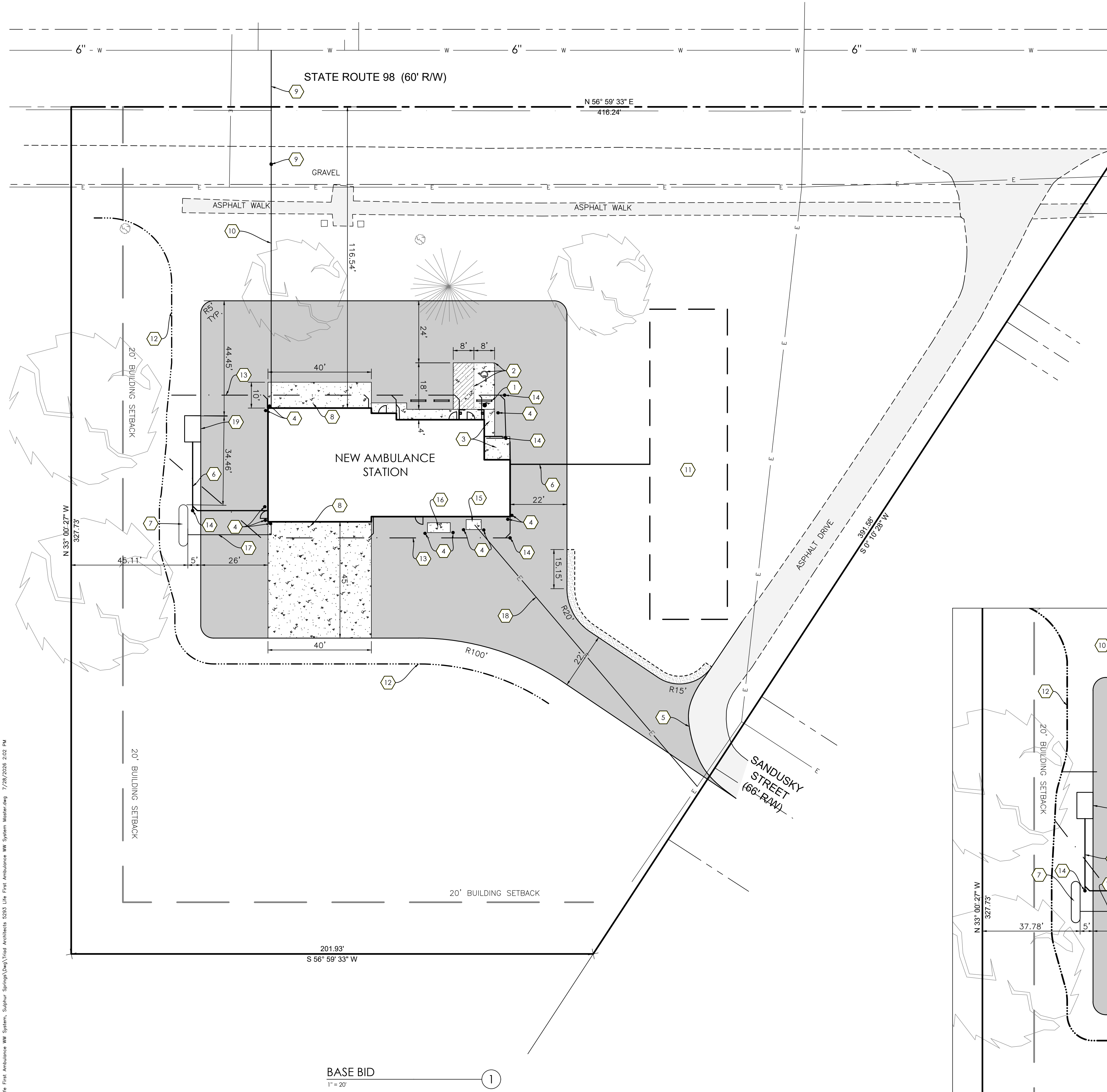
REVISIONS:

#	DATE	DESCRIPTION
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DRAWN BY: BCK
CHECKED BY: JSS
PROJECT NUMBER: 5293

C-202
SITE
DEMOLITION
PLAN

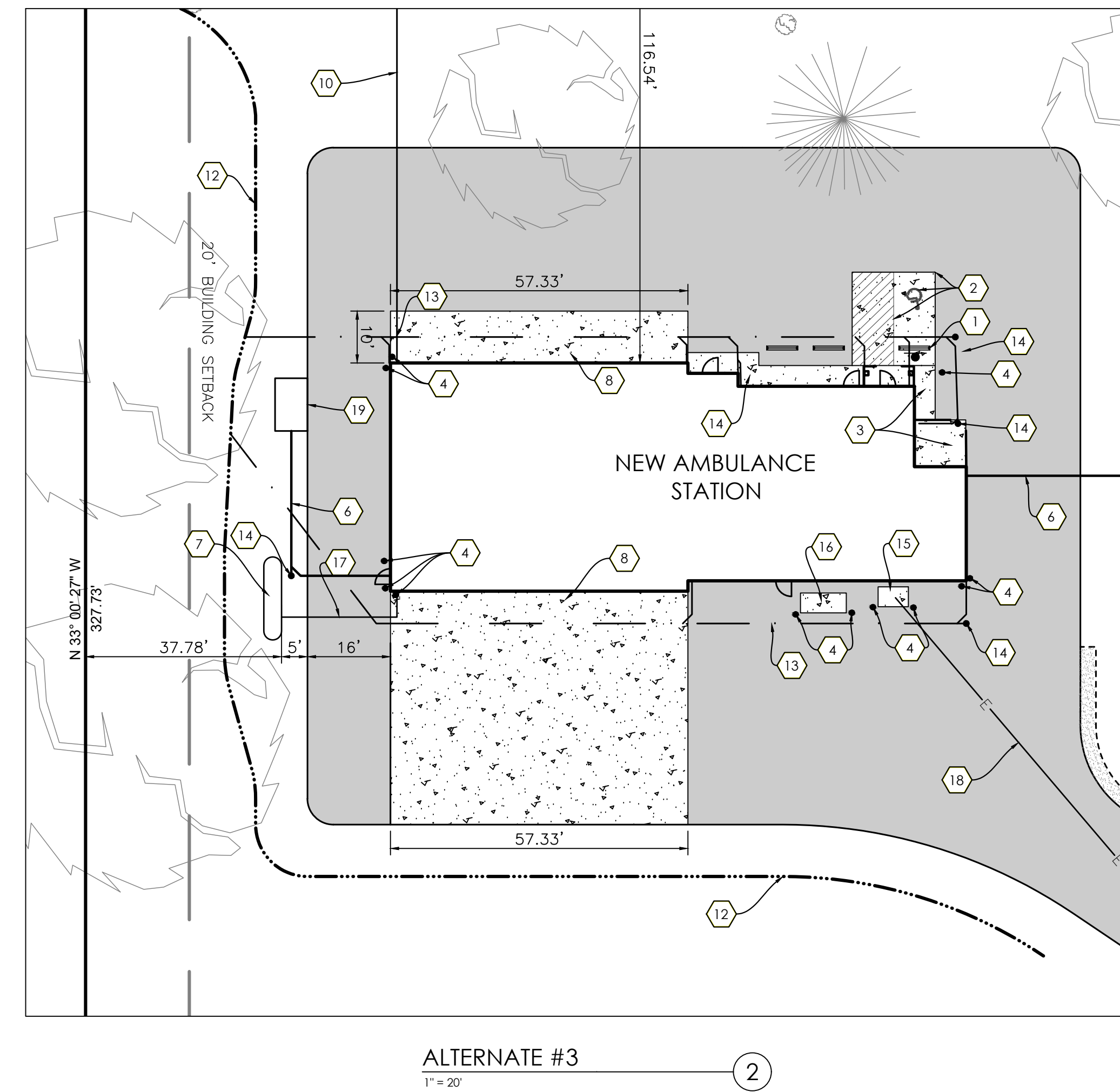
S:\Triad Architects 5293 Life First Ambulance WW System, Sulphur Springs\Drawings\Triad Architects 5293 Life First Ambulance WW System Master.dwg 7/28/2026 2:02 PM



- SITE KEYNOTES
1. PRECAST CONCRETE WHEEL STOP, TYP., INSTALLED & SECURED PER MANUFACTURER'S RECOMMENDATIONS.
 2. PAVEMENT MARKINGS INCLUDING SPACES, TRANSVERSE LINES, & ADA SYMBOLS TO BE PLACED AS SHOWN PER ITEMS 641 & 642.
 3. CONCRETE SIDEWALK. SEE DETAIL.
 4. METAL BOLLARD, TYP. SEE DETAIL.
 5. NEATLY SAWCUT EDGE TO PROVIDE CLEAN, STRAIGHT JOINT. APPLY ITEM 407, TACK COAT, TO EXPOSED VERTICAL FACE PRIOR TO PLACEMENT OF NEW PAVEMENT & SEAL JOINT WITH ITEM 705.04, HOT APPLIED JOINT SEALER.
 6. 6" SANITARY SEWER SERVICE @ 2.08% MIN. SLOPE. COORDINATE CONNECTION AT BUILDING WITH MEP PLANS.
 7. UNDERGROUND PROPANE TANK, SUPPLIED AND INSTALLED BY OTHERS
 8. CONCRETE APRON. SEE DETAIL.
 9. DOMESTIC WATER SERVICE AND CURB BOX TO BE INSTALLED BY THE CITY.
 10. 1.5" DOMESTIC WATER SERVICE. COORDINATE CONNECTION TO THE BUILDING WITH MEP PLANS.
 11. SANITARY SEWER LEACH FIELD. SEE SHEET C-502.
 12. DITCH. SEE SITE GRADING PLAN.
 13. 6" ROOF DRAIN COLLECTOR @ 2.00% MIN. SLOPE. COORDINATE DOWNSPOUT LOCATIONS WITH ARCHITECTURAL PLANS.
 14. CLEANOUT, TYP. SEE DETAIL.
 15. GENERATOR PAD. SEE MEP PLANS.
 16. CONDENSING UNITS PAD. SEE MEP PLANS.
 17. GAS LINE BY OTHERS, SHOWN FOR REFERENCE ONLY.
 18. ELECTRIC LINE BY OTHERS, SHOWN FOR REFERENCE ONLY.
 19. SANITARY HOLDING TANK. SEE DETAIL.
 20. CONCRETE PARKING PAD FOR ADA ACCESSIBILITY. SEE CONCRETE APRON DETAIL.

- MISC. NOTES
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE GROUND & REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE A/E.
 - DO NOT SCALE FROM THIS DRAWING. ALL WRITTEN DIMENSIONS SHALL GOVERN. ANY DISCREPANCIES SHALL IMMEDIATELY BE REPORTED TO THE A/E.
 - REFER TO THE ARCHITECTURAL DRAWINGS FOR BUILDING DETAILS & LAYOUT. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL BUILDING CORNER LOCATIONS IN THE FIELD.
 - ROOF DRAINS, FOUNDATION DRAINS, & OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.

- LEGEND
- GRAVEL PAVEMENT. SEE DETAIL.
 - CONCRETE PAVEMENT. REFER TO KEYNOTES FOR TYPE.
 - GRAVEL BERM PER ODOT 411. (5'W X 12'D)

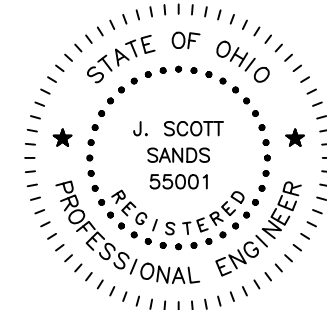


OFFICES

1495 Old Henderson Road
Columbus, Ohio 43220
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740-385-2140

507 Main Street
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740-450-1640



J. Scott Sands 07-03-26
Registered Engineer Date

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GRAPHIC SCALE
1" = 20'
(24" X 36" PLOT)

LIFE FIRST AMBULANCE DISTRICT

LIFE FIRST AMBULANCE STATION

4585 STATE ROUTE 98
SULPHUR SPRINGS, OH 44881

triad 172 E. STATE ST., SUITE 600
COLUMBUS, OH 43215
PHONE: (614) 942-1050
INFO@WEARETRIAD.COM

BIDDING DOCUMENTS

8/17/2026

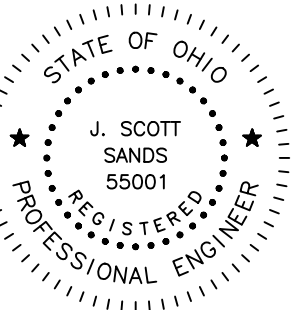
REVISIONS:

#	DATE	DESCRIPTION
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DRAWN BY: BCK
CHECKED BY: JSS
PROJECT NUMBER: 5293

C-301
SITE
DIMENSION &
UTILITY PLAN

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Registered Engineer Date

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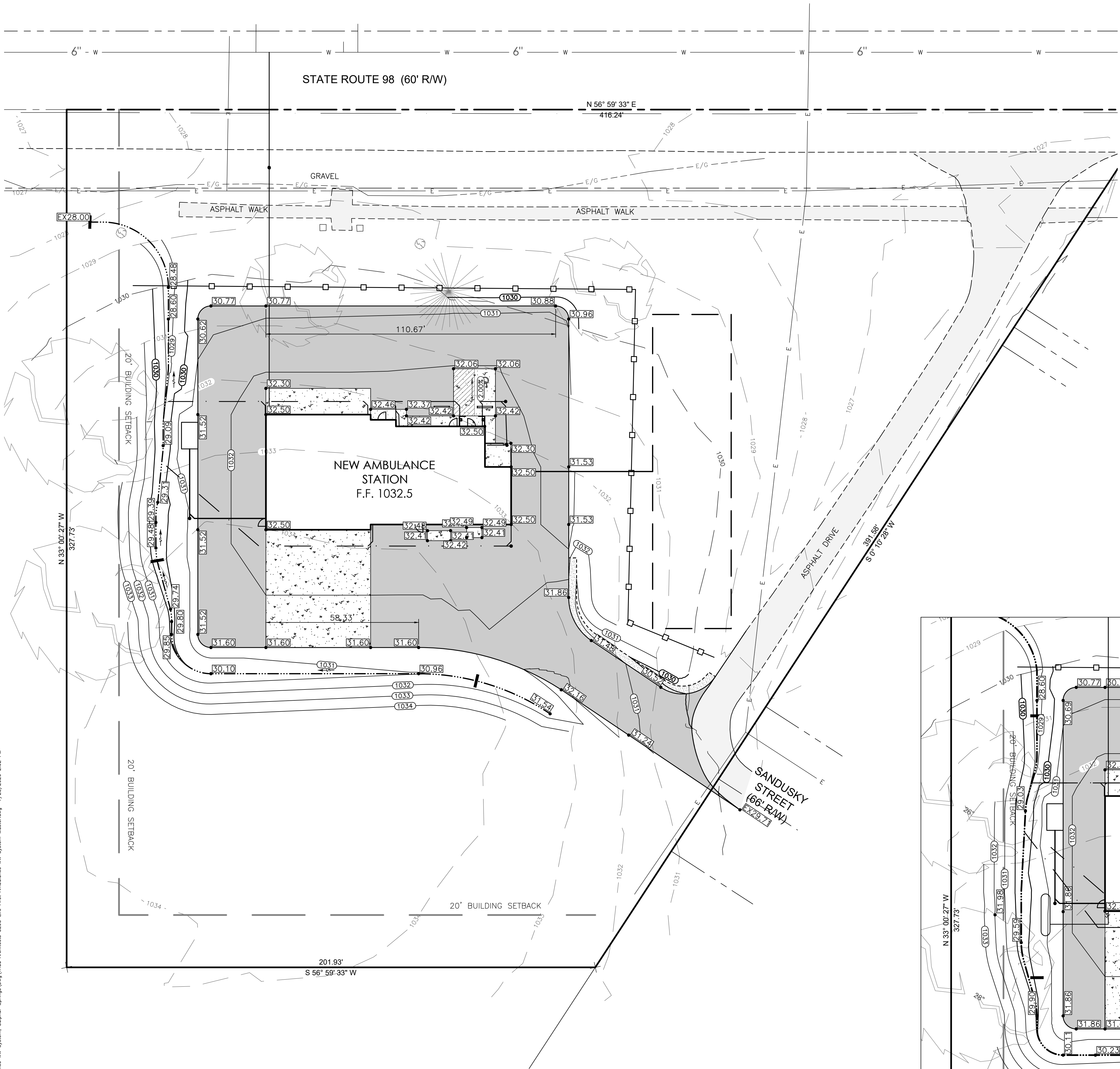
GRAPHIC SCALE
1" = 20'
(24" X 36" PLOT)

MISC. NOTES

- ALL SPOT GRADES HAVE BEEN TRUNCATED FOR LEGIBILITY. ADD 1000 TO ALL ELEVATIONS.
- ALL PROP. DITCHES & AREAS 3:1 OR STEEPER SHALL REQUIRE ITEM 671, TEMPORARY EROSION CONTROL MATTING, TYPE C, INSTALLED & SECURED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR SHALL PROVIDE CONCRETE WASHOUT AREA PER DETAIL. LOCATION SHALL BE DETERMINED IN THE FIELD.
- CONTRACTOR SHALL PROVIDE STABILIZED CONSTRUCTION ENTRANCE PER DETAIL. LOCATION SHALL BE DETERMINED IN THE FIELD.
- CONTRACTOR SHALL PROVIDE ROCK DITCH CHECK IN ALL PROP. DITCHES. ROCK DITCH CHECK SHALL BE INSTALLED & SECURED ACCORDING TO ODOT STD. DRAWING DM-4.4. PLACE EVERY 150' BEGINNING AT THE DOWNSTREAM END OF THE DITCH. MAINTAIN IN PROPER CONDITION THROUGHOUT CONSTRUCTION UNTIL 80% STABILIZATION HAS BEEN ACHIEVED.
- DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO A SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA. THE CONTRACTOR WILL BE HELD LIABLE FOR ANY VIOLATION & SUBSEQUENT FINES.

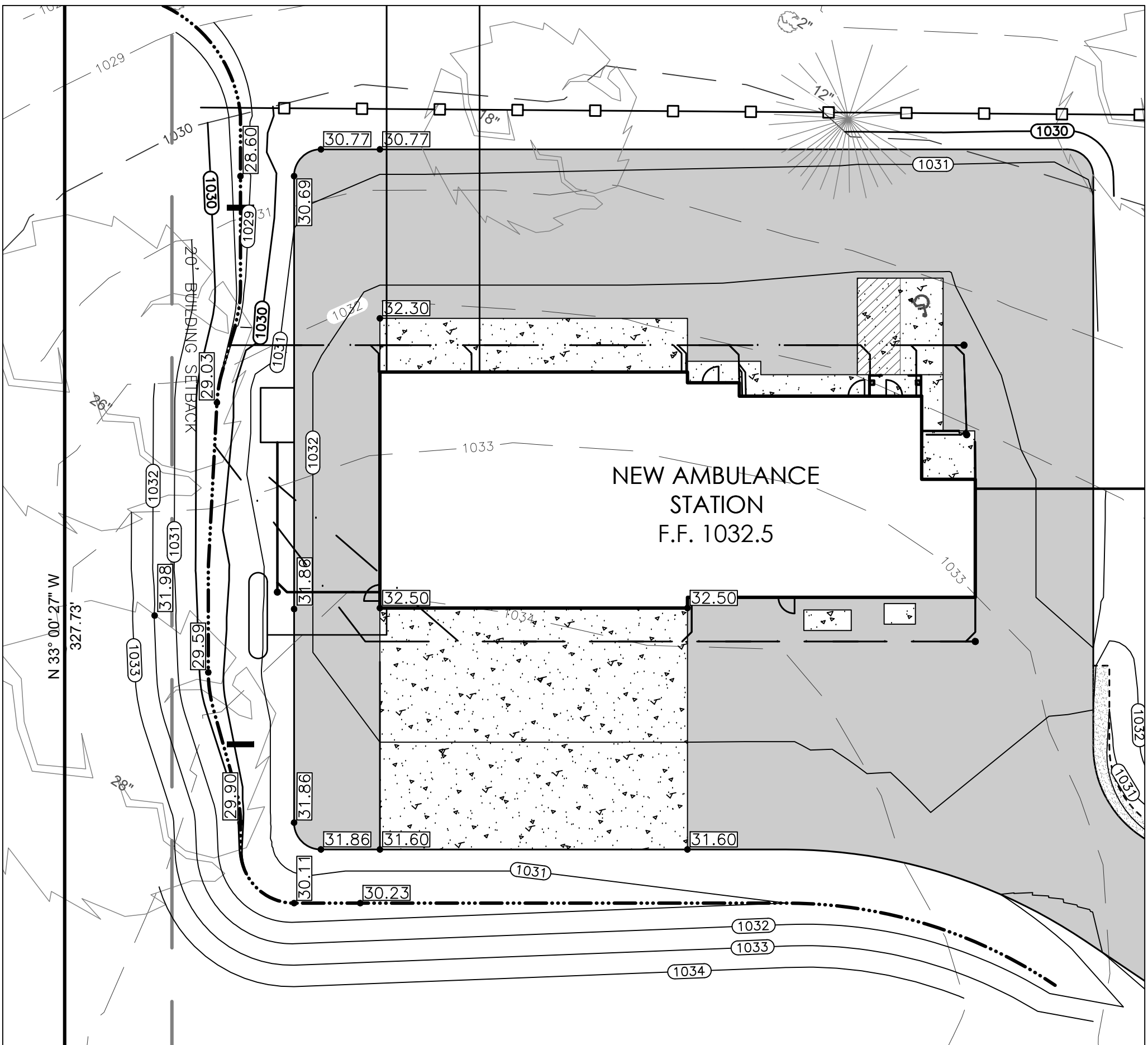
LEGEND

- DITCH CHECK. SEE MISC. NOTES.
- PERIMETER GEOTEXTILE FABRIC FENCE. SEE ODOT STD. DWG. DM-4.4.
- SLOPE ARROW



BASE BID
1" = 20'

1



ALTERNATE #3
1" = 20'

2

LIFE FIRST AMBULANCE
DISTRICT

**LIFE FIRST AMBULANCE
STATION**

4585 STATE ROUTE 98
SULPHUR SPRINGS, OH 44881

triad 172 E. STATE ST., SUITE 600
COLUMBUS, OH 43215
PHONE: (614) 942-1050
INFO@WEARETRIAD.COM

BIDDING DOCUMENTS
8/17/2026

REVISIONS:
DATE DESCRIPTION

DRAWN BY: BCK
CHECKED BY: JSS
PROJECT NUMBER: 5293

C-401
SITE GRADING
PLAN

ONSITE SEWAGE TREATMENT SYSTEM

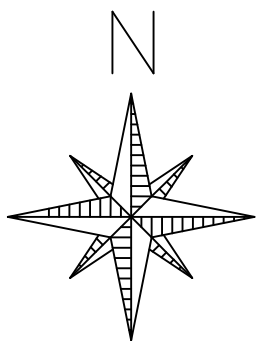
LIFE FIRST AMBULANCE STATION

4585 STATE ROUTE 98 SULPHUR SPRINGS, OH 44881
LIBERTY TOWNSHIP, CRAWFORD COUNTY PARCEL NUMBER: 28-00-54085-000
SEPTIC TANK / TIMED DOSING / LEACH FIELD
364 GPD SANITARY SEWAGE TREATMENT SYSTEM

Ohio EPA Revision Submission Date: 07/16/2026
2nd Ohio EPA Revision Submission Date: 07/21/2026



VICINITY MAP



INDEX OF DRAWINGS

TITLE SHEET:	C-501
SITE PLAN:	C-502
SCHEMATIC & HYDRAULIC ELEVATIONS:	C-503
CALCULATIONS:	C-504
DOSING:	C-505
CONSTRUCTION DETAILS, SYSTEM SPECIFICATION:	C-506
O & M:	C-507

THE CONTRACTOR SHALL NOTIFY THE OHIO UTILITY PROTECTION SERVICE (OUPS) 800-362-2764 AND ANY UTILITY WITHIN THE CONSTRUCTION LIMIT THAT ARE NOT A MEMBER OF THE "OUPS". NOTIFICATION SHALL BE AT LEAST TWO (2) WORKING PRIOR TO BEGINNING ANY WORK. CONTRACTOR SHALL ALSO EXERCISE CAUTION AND VERIFY THE EXACT HORIZONTAL AND VERTICAL LOCATION OF THE UTILITY BEFORE WORKING NEAR ANY UTILITIES.

I UNDERSTAND THAT THIS PROPOSED WASTEWATER TREATMENT SYSTEM REQUIRES A CONTINUOUS OPERATION AND MAINTENANCE CONTRACT AS FURNISHED BY AN APPROVED SERVICE PROVIDER.

Property Owner's signature

Date

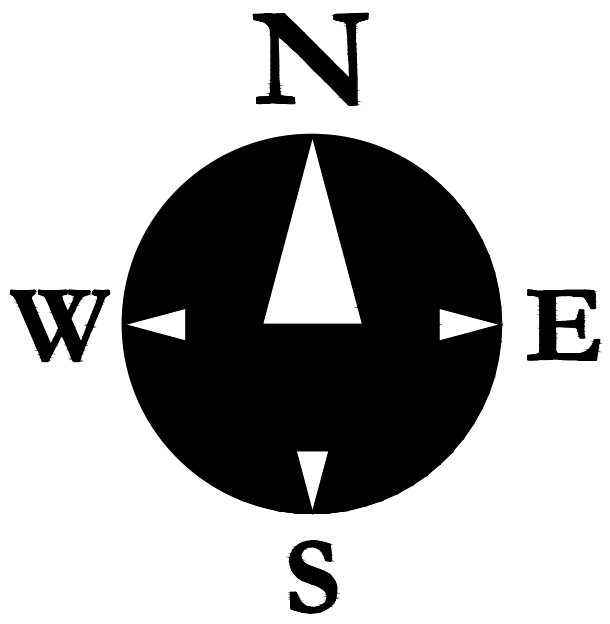
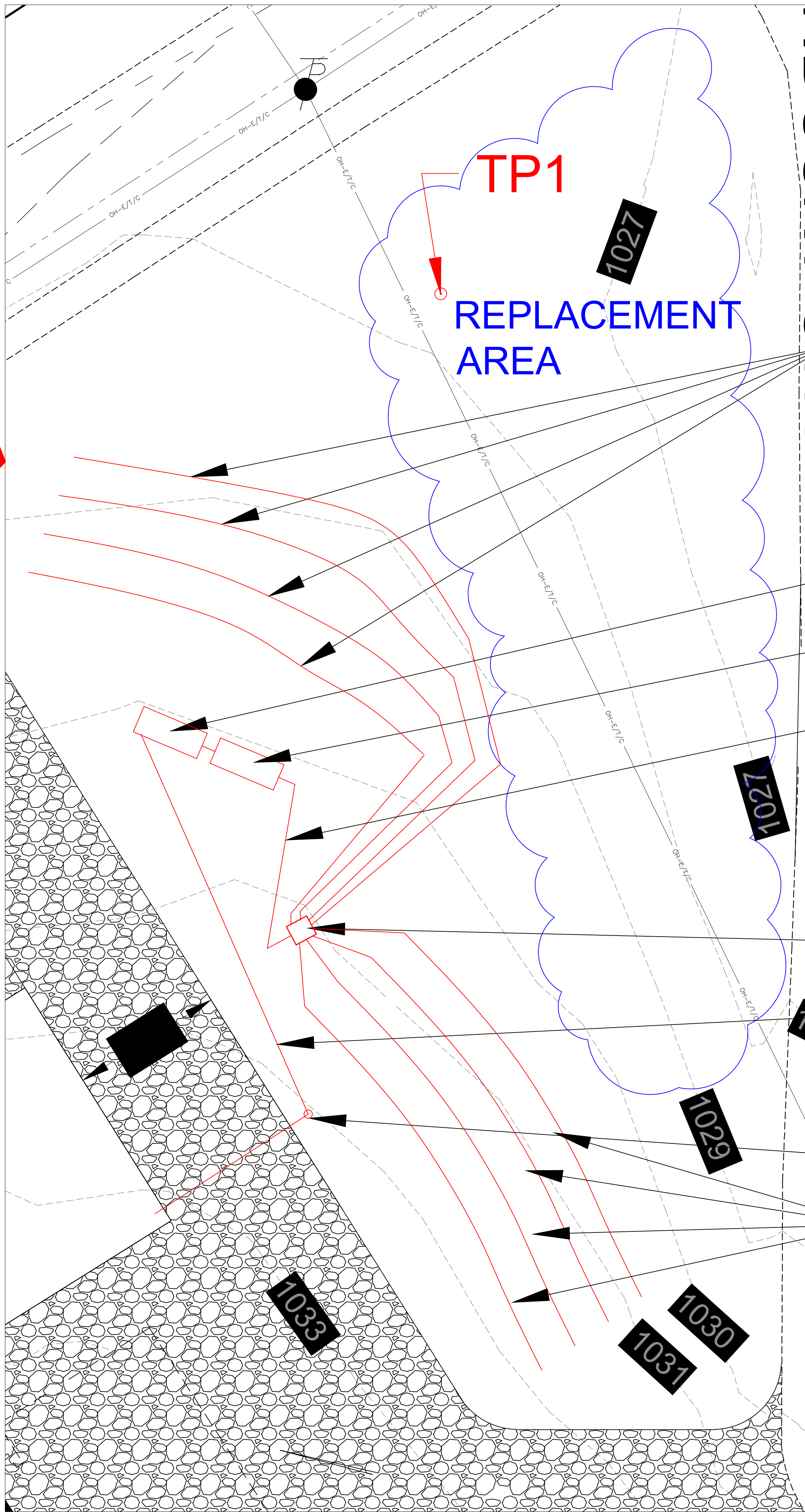
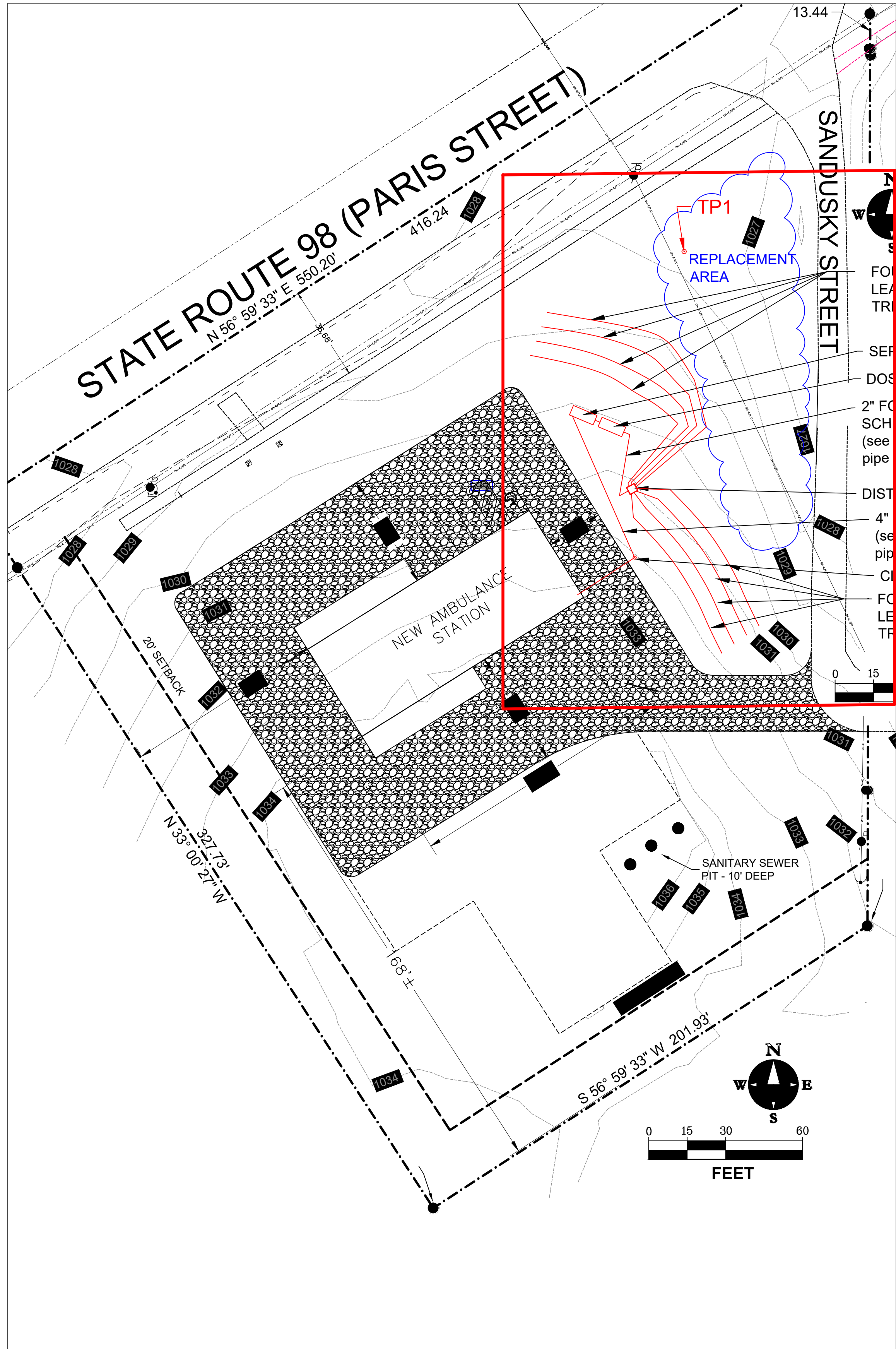


LIFE FIRST AMBULANCE STATION
4585 State Route 98 Sulphur Springs, OH

SCALE:
AS NOTED
DATE:
08/17/26
DRAWN BY:
GJN
JOB NUMBER:
25036
SHEET

C-501

ONSITE TREATMENT TITLE SHEET



FOUR 64' LONG
LEACH
TRENCHES

SEPTIC TANK

DOSING TANK

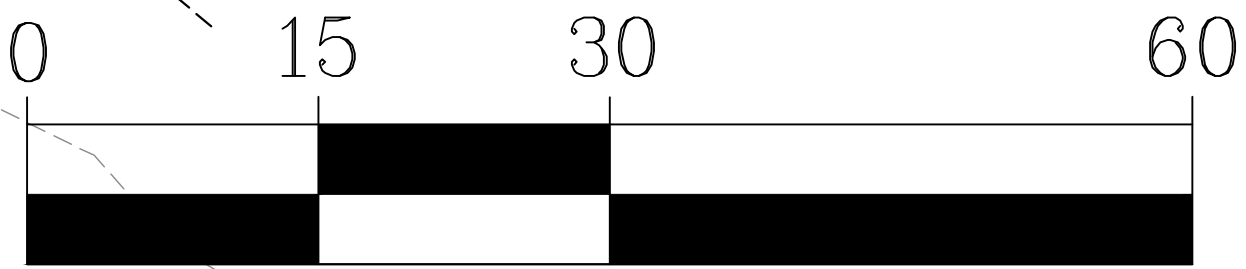
2" FORCE MAIN
SCH 40 PVC
(see sheet C-506
pipe specifications)

DISTRIBUTION BOX

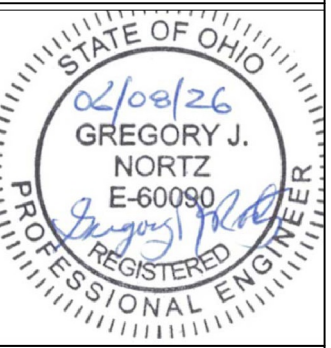
4" SCH 40 PVC
(see sheet C-506
pipe specifications)

CLEAN OUT

FOUR 60' LONG
LEACH
TRENCHES



NO.	DATE	REVISION
A	07/16/26	added 2" force main note
B	7/21/26	added: (see sheet C-506 pipe specifications)

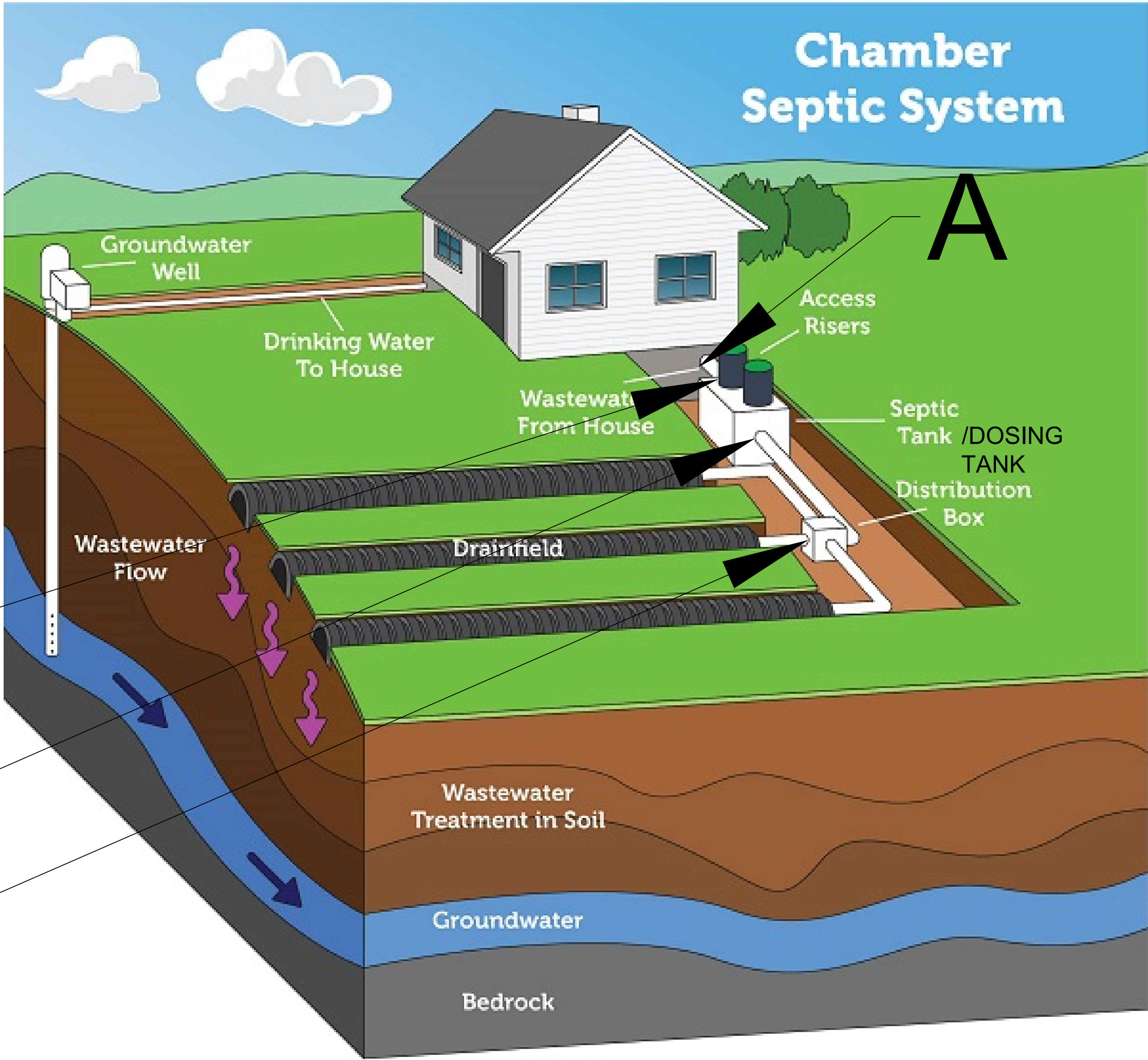


LIFE FIRST AMBULANCE STATION
4585 State Route 98 Sulphur Springs, OH

SCALE: AS NOTED
DATE: 08/17/26
DRAWN BY: GJN
JOB NUMBER: 25036
SHEET: C-502 SITE PLAN

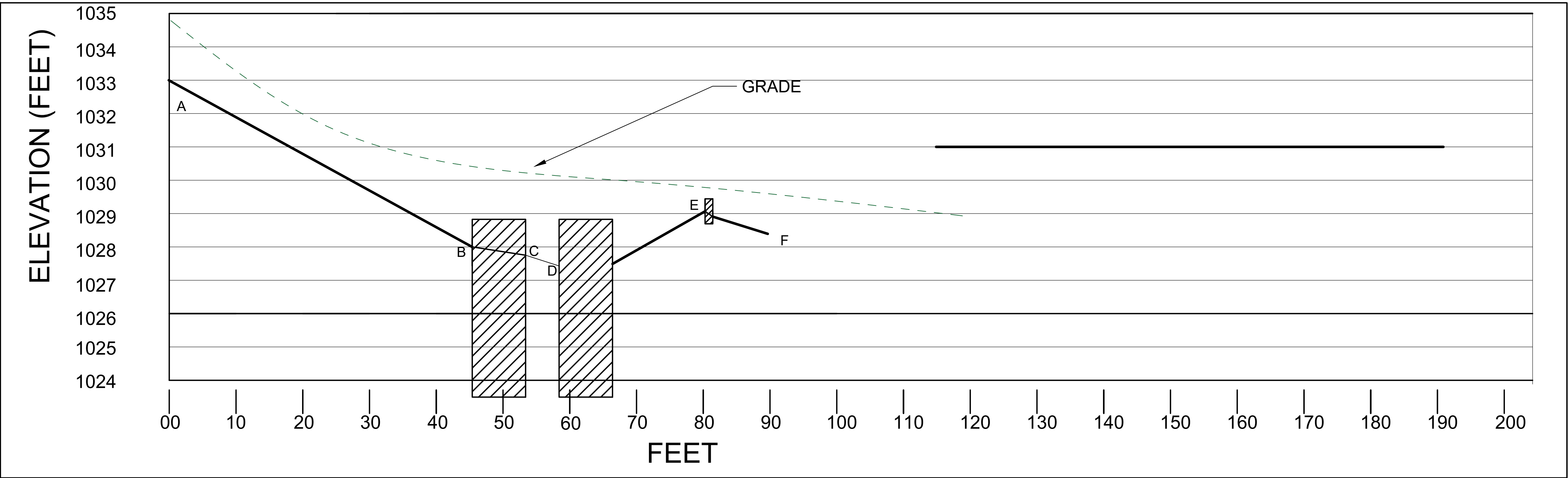
Elevations*			
Symbol	Proposed Elevation	As-Built Elevation	Description
A	1031		Dwelling Discharge invert
B	1028.00		Septic tank inlet invert
C	1027.70		Septic tank outlet invert
D	1027.50		Dosing tank inlet invert
E	1029.00		Distribution box inlet invert
F	1028.50		Drain field upper line invert

** 1035 IS AN ASSIGNED BENCHMARK ELEVATION AT THE FACILITY FINISHED FLOOR.



Please note: The ends of the chamber system lines are open for illustrative purposes only. In reality, and when properly installed, these lines are closed at the end. Septic systems vary. Diagram is not to scale.

PROFILE OF SYSTEM



REVISION					
DATE					
NO.					

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engineering

446 Maplebrooke Dr. E., Westerville, Ohio
www.otiscoengineering.com

STATE OF OHIO
02/08/26
GREGORY J. NORTZ
E-60080
REGISTERED PROFESSIONAL ENGINEER

LIFE FIRST AMBULANCE STATION
4585 State Route 98 Sulphur Springs, OH

SCALE:
AS NOTED

DATE:
08/17/26

DRAWN BY:
GJN

JOB NUMBER:
25036

SHEET:
C-503

SCHEMATIC & HYDRAULIC ELEVATIONS

CALCULATIONS FOR LEACH FIELD ABSORBTION FIELD SYSTEM FOR ON-SITE SEWAGE TREATMENT

DATE: 6/8/2026
Project Number: 25036
OWNER: Emergency Responder Station
ADDRESS: 4585 ST RT 98
Sulfer Springs, Ohio
COUNTY Crawford
PARCEL: 290054085000



Site, Soil, and Building Specifications

Hydraulic Linear Loading Rate (HLLR)	3	gal/d/ft	ref. 4 table 4; Hydraulic Linear Loading Rate
Soil Infiltrative (Basal) Loading Rate (SILR)	0.6	gal/day/sq. ft	ref. 3 table 8; Soil Infiltration Loading Rate
Soil Limiting Depth (LD) /Condition	18	in	ref. 2 soil evaluation
Vertical Separation Distance (VSD)	12	in	ref. 4 - 3701-29-15 (G)
Soil Absorption Area Slope (S)	4	%	ref. 2 soil evaluation
Daily Design Flow (DDF)	364	gpd	28 gallon /day per person; 13 people
Status of Installation/Sewer Exit	new		(utilizing water saving devices) 3745-42-05 6(a)

Field Design Dimension Calculations

Description	Calculation Description	Result	Units
Basal Area required (BA)	[(DDF)/ (SILR)]	606.6666667	
Minimum required trench length along contour	(DDF/HLLR)	121.3	ft
Trench width:		2	ft
Number of trenches to provide basal area		3	
Trench length to meet basal area (increments of 4')	BA/(# trench x trench width)	104.0	ft
Designed trench lengths	greater of min or basal requirement	121.3	round to divisable by 4' chamber length
Trench Depth:	(LD-VSD)	6	in.
Backfill above existing grade to provde 6" cover over chamber	14"- trench depth	8	in.
Minimum basal area required (DDF/SILR)*{1.25}	25% resting area added	758.3333333	sq ft
Number of trenches (including resting line)	added 25% resting line	4.0	
Basal area = (trench width x trench length x number of trenches)		832	sq ft by design including 25% resting area ¹

Notes: Three lines from distribution box are active. One of the lines along contour is for resting. Rule 3701-29-15, Appendix A, III, (A), (1)

References

- 1. Ohio State University Bulletin 939 Septic tank - Soil Treatment Systems
- 2. Smart Sevicees soil evaluation repor dated 5/26/26.
- 3. Knox County Ohio Auditor GIS site
- 4. OAC 3701-29
- 5. OEPA 2026 Onsite Sewage Treatment System Guidance Document
- 6. OEPA letter dated May 29, 2026
- 7. OEPA email correspondance dated June 4, 2026

NO.	DATE	REVISION



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LIFE FIRST AMBULANCE STATION
4585 State Route 98 Sulphur Springs, OH

SCALE:
AS NOTED

DATE:
08/17/26

DRAWN BY:
GJN

JOB NUMBER:
25036

SHEET:
C-504

ONSITE TREATMENT CALCULATION

Dosing Volumes

- 364 Daily design flow rate (gpd)
- 45.5 Design gallons per dose
- 7 Gallons drain back to tank
- 53 Total gallons pumped per dose

Timer settings

- 8 Number of doses per day
- 6 Time to pressurize the sytem (secs)
- 42 Time to deliver design dose (secs)
- 48 ON cycle (secs)
- 179 Off cycle (minutes)

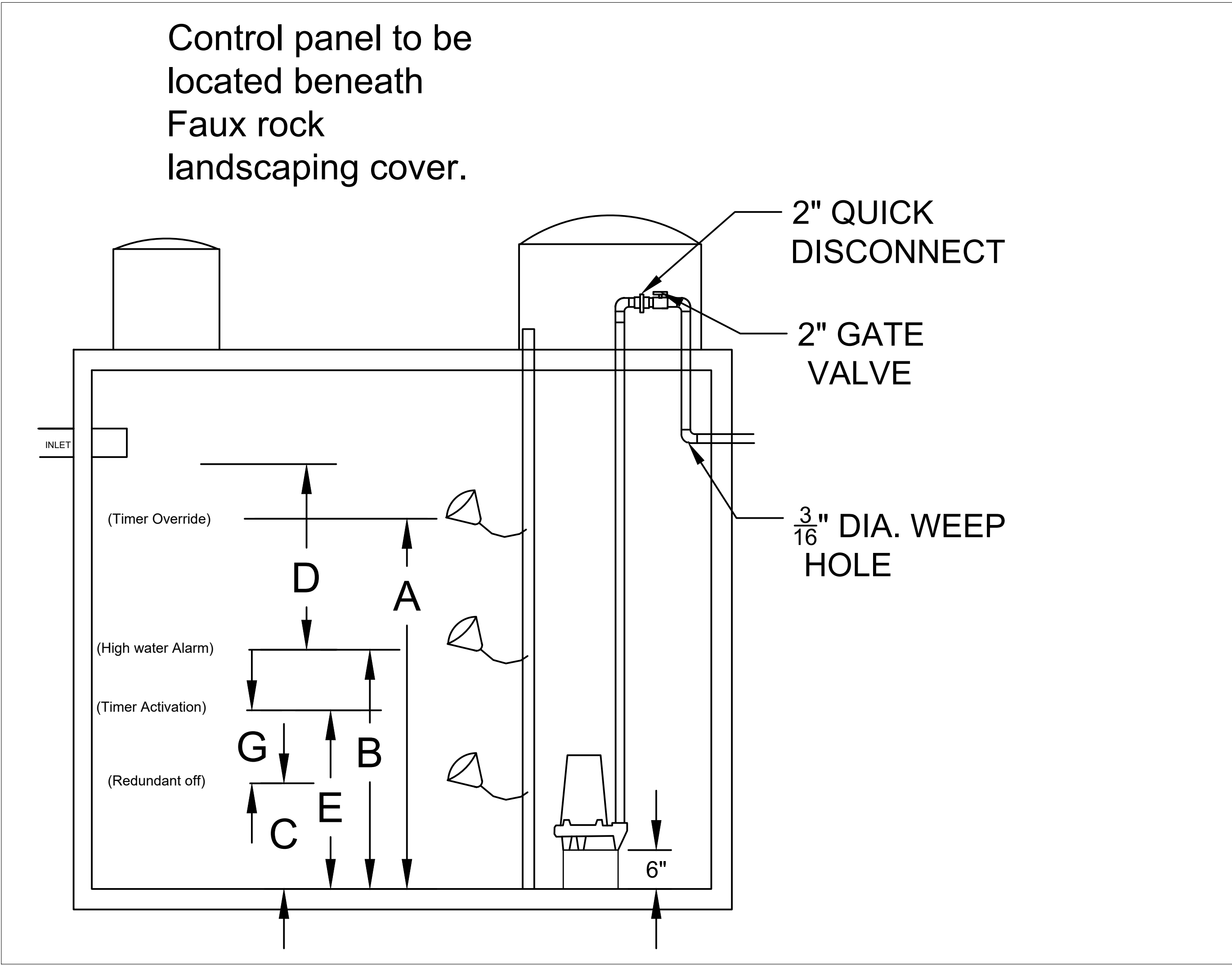
Float settings (inches above tank floor)

- 30 A = Timer override (optional)
- 17 B = Highwater alarm
- 9 C = Redundant off (max draw down)

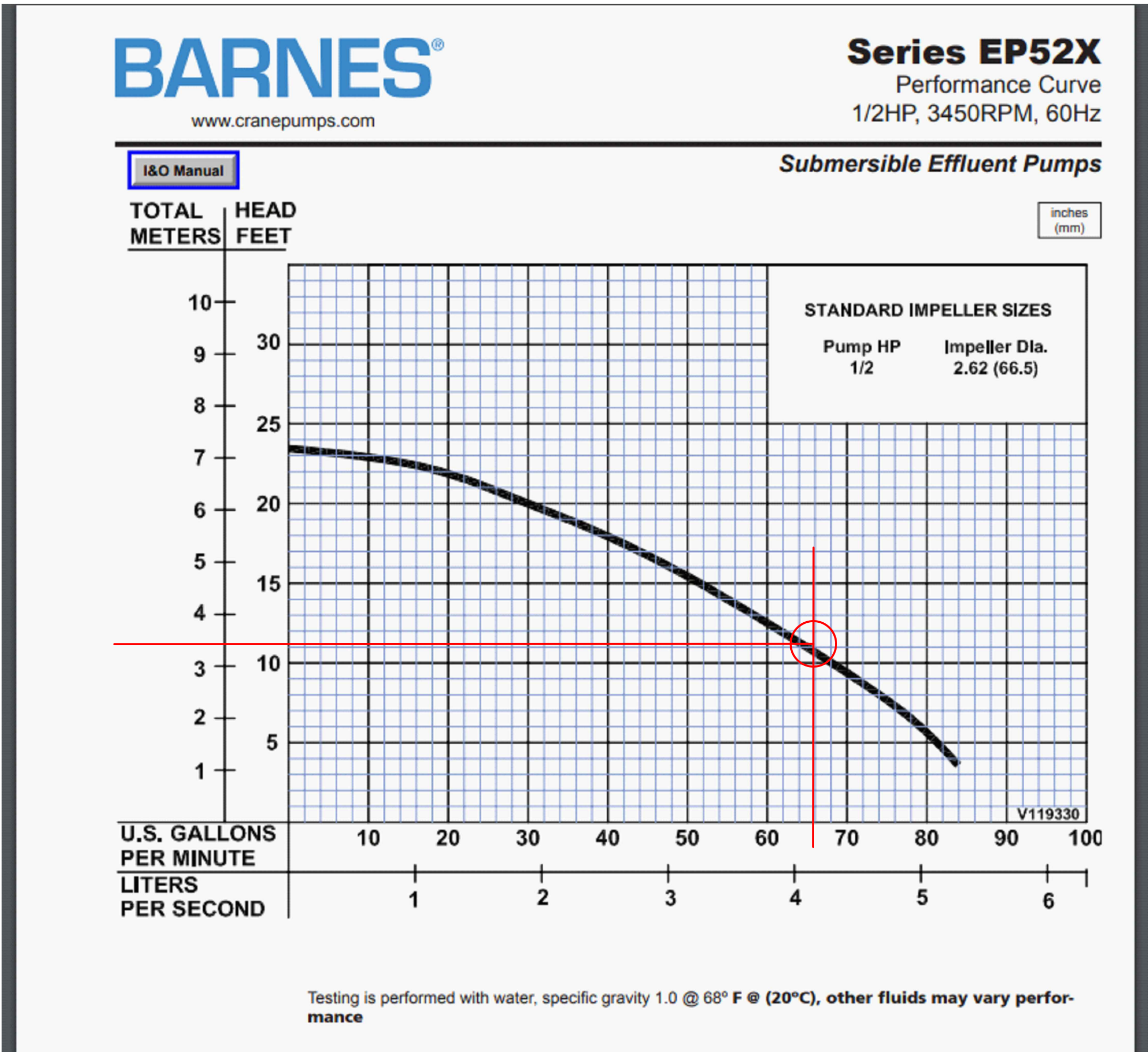
Gallons
648.3
376.49
194.49

Tank volumes

- 21.61 Gallons per inch in tank
- 1000 Total tank volume (gallons)
- 624 D = Reserve capacity
- varies E = timer activation
- 182 F = Gal between HW & activation
- 53 G = Gal between activation and off



NOTE: A BACK UP PUMP TO BE AVAILABLE ONSITE



NO.	DATE	REVISION
A	7/16/26	added note



LIFE FIRST AMBULANCE STATION
4585 State Route 98 Sulphur Springs, OH

SCALE
AS NOTED
DATE
08/17/26
DRAWN BY
GJN
JOB NUMBER
25036
SHEET
C-505
ONSITE TREATMENT DOSING

Absorption Field Chamber System Installation Instructions

<https://www.infiltratorwater.com/Customer-Content/www/CMS/files/chamber-manuals/A16.pdf>

Construction Notes

General Notes:

1. The HSTS installer must notify the system designer and the Ohio EPA prior to making any changes to the original design.
2. If any subsurface drainage is encountered, notify the owner before proceeding.
3. Owner and contractor to review prints before construction begins.
4. If clearing trees in the vicinity of the subsurface absorption area of the treatment system, contractor shall not disturb or compact the soil. Trunks shall be cut to leave stumps as close to ground surface as possible and the stumps left in place. For leach fields, the system shall be aligned to avoid stumps with diameter greater than the trench.
5. Prior to excavation, the registered installer shall check all elevations relative to the benchmark to assure proper flow through the system.
6. Sewage treatment areas shall always be secured to keep all material and equipment off areas.
7. Construction of the system shall be prohibited during periods when the ground is frozen or saturated.
8. Leach lines shall be installed to run parallel to surface contour of the site to ensure even distribution of sewage effluent.
9. Work from the ends and the upslope side of the leach field during installation.
10. Cut and cap the 4" effluent line (or force main) at the distribution box location. Backfill around the 4" effluent line (or force main). Compact backfill to prevent seepage back through the trench.
11. Photograph system components before covering with topsoil.
12. All surface water shall be diverted away from the sewage treatment system.
13. If an interceptor drain is required on the plan, the drainpipe shall be no closer than 6' upslope and approximately parallel to the nearest leach line and no closer than 8' from the ends of the leach lines, on the short sides of the leach field area. The drain shall not cross any portion of the leach field. These are stipulations per the Ohio Administrative Code section 3701-29-16, (D) (1).
14. If drawings call for an interceptor drain, the drain is to be a 4-inch diameter perforated PVC or HDPE, with fittings to connect to yard drain, ditch, or other, waterway, or low-lying area at a lower elevation than the leach field. Pipe is to be embedded in trench to accommodate placement of the pipe at an invert of approximately 18" below grade and within a 10" layer of washed river stone within the trench. Stone diameter to be greater than pipe perforation diameter.
15. Grass seeding shall follow immediately after, and the entire leach area shall be covered with straw. Do not plant any trees on the leach field.
16. The Ohio EPA should be notified before any changes are made to the approved design.

Construction Documents:

1. Installer to provide an accurate "As Built" drawing once installation is complete.

Pipe Specifications:

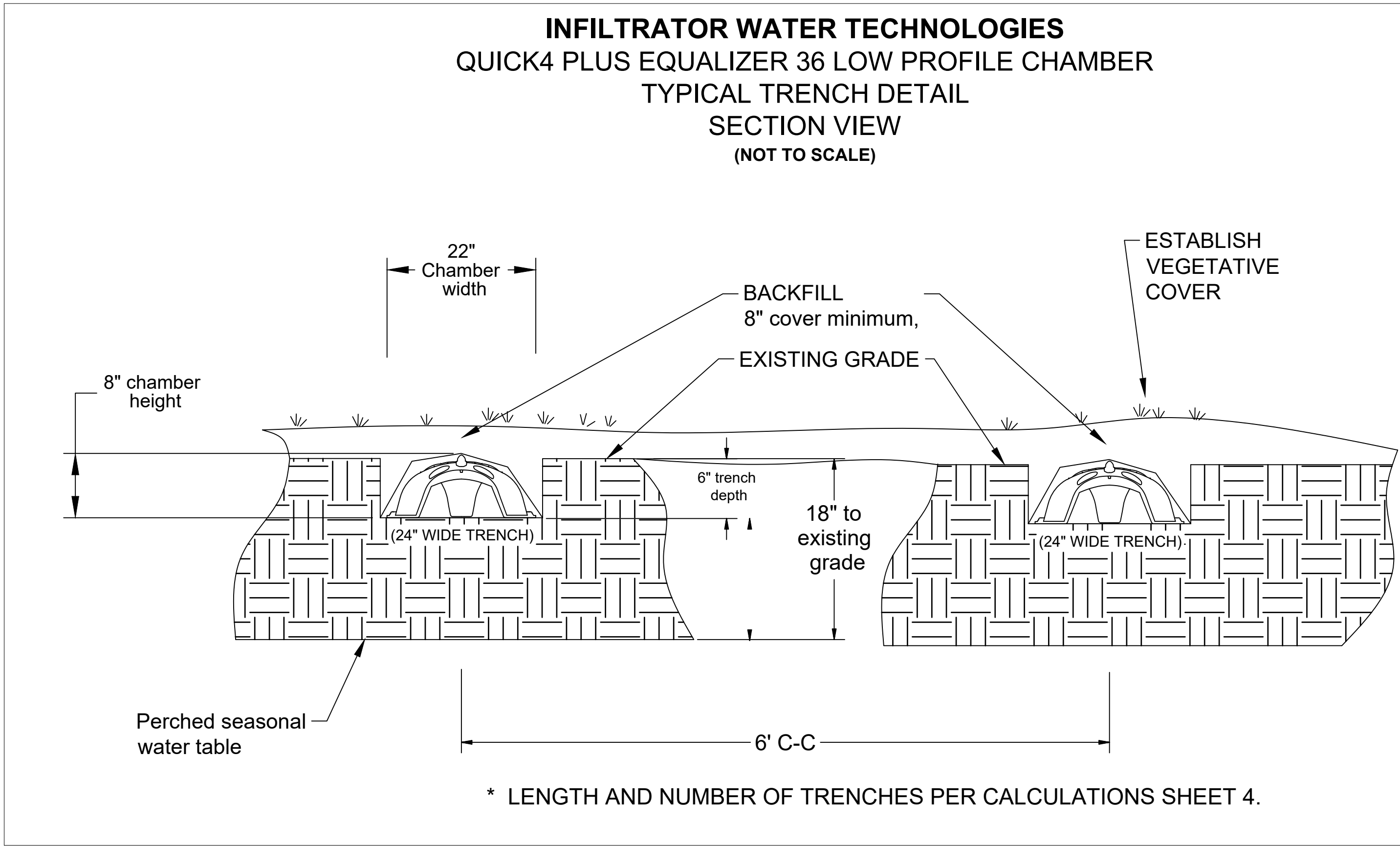
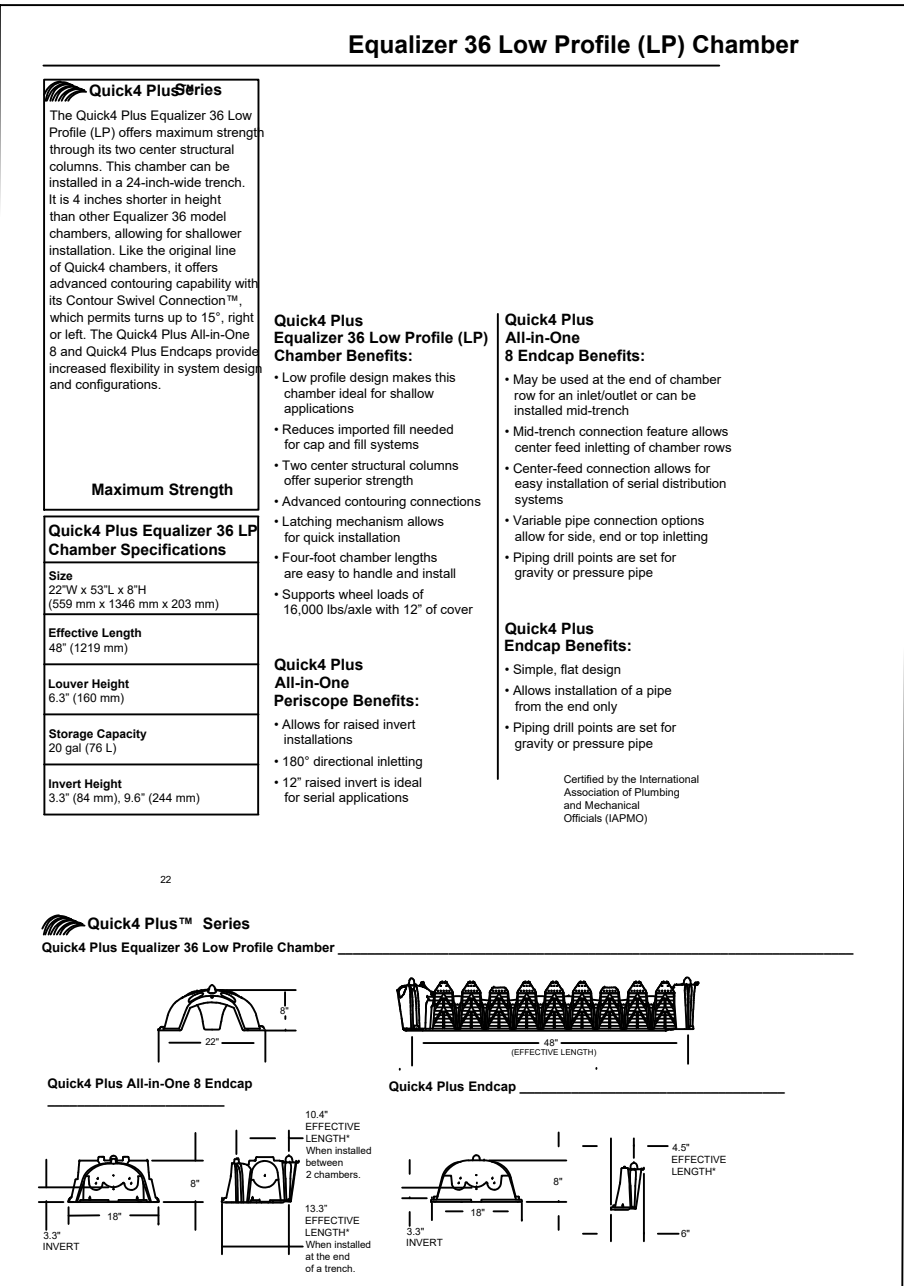
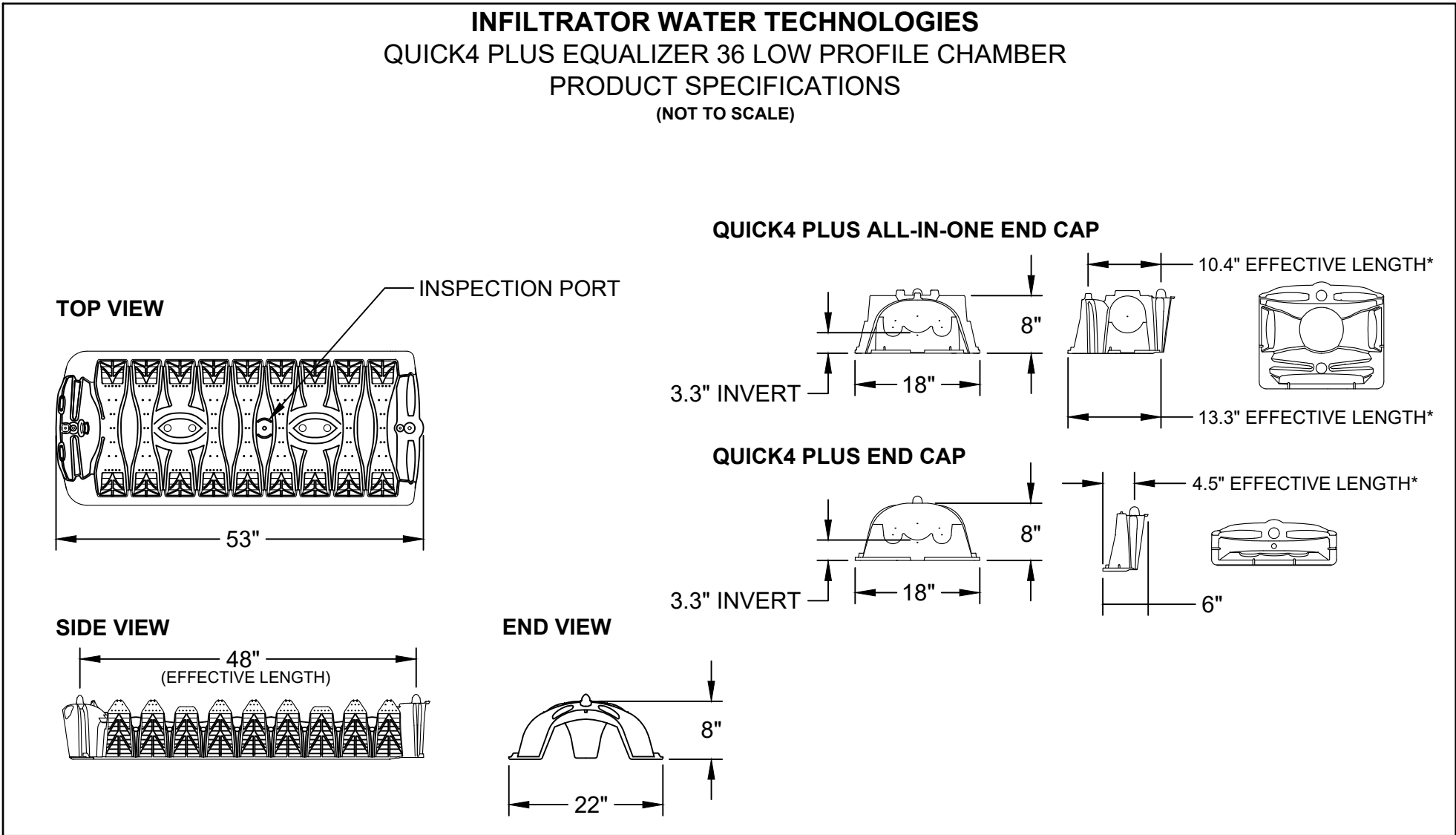
1. All piping shall be Schedule 40 PVC, meeting ASTM D2729 specification.
2. All pipe joints shall be solvent welded, meeting ASTM D2564 specification.
3. All piping shall be installed per ASTM D2321 specification.
4. The force main (if applicable) shall have a 3/16" hole drilled in the bottom of the second 90 elbow after the quick disconnect union, to facilitate force main drain-back and prevent air lock of the pump.
5. As site conditions allow the force main (if applicable) shall be installed with enough slope to facilitate draining to distribution box. If site slope conditions will not allow for a pipe to drain to distribution box, force main pipe should be buried below published frost depth (deeper than 36").

Materials Estimates (may change due to unforeseen issues)

- (1) 1000 gallon concrete dual compartment with effluent filter ODH approved septic tank
- (1) 1000 gallon ODH approved dosing tank
- (1) Barnes Series EP 52X effluent pump or equal
- (1) Absorbtion field distribution box; Tuf-Tite 9 Hole distribution box or equal
- (200) feet of 4" schedule 40 PVC for drains from facility & from dist. box to leach field
- (400) feet of INFILTRATORQUICK4 PLUS EQUALIZER 36 LOW PROFILE CHAMBER or equal
- (40) yds. of top soil cover (borrowed from on site)
- (8) QUICK4 PLUS ALL-IN-ONE END CAPS or equal

*plus assorted misc. fittings as required

Note: Contractor shall provide proper bedding to protect and prevent settlement of piping and tanks.



* LENGTH AND NUMBER OF TRENCHES PER CALCULATIONS SHEET 4.

NO.	DATE	REVISION
A	07/16/26	Revised pipe specifications



LIFE FIRST AMBULANCE STATION
4585 State Route 98 Sulphur Springs, OH

SCALE
AS NOTED
DATE
08/17/26
DRAWN BY
GJN
JOB NUMBER
25036
SHEET
C-506

CONSTRUCTION DETAILS, SYSTEM SPECIFICATIONS

System Components and Requirements:

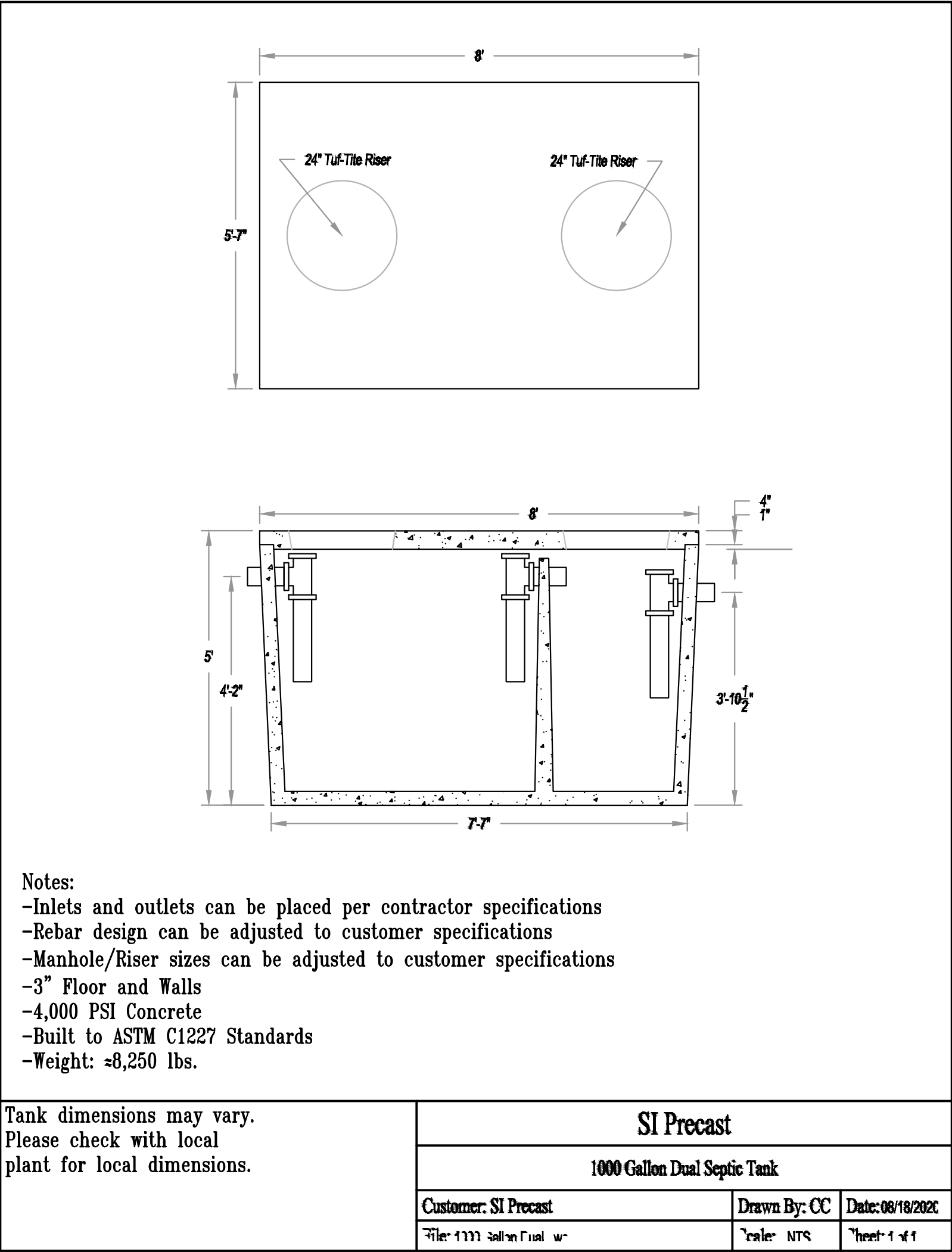
1. ODH-approved 1,000 gallon concrete dual compartment septic tank w/ effluent filter or ODH approved equal.
2. Tank shall be watertight, undamaged, and delivered and set in position on a level base.
3. Tank risers shall be no less than 2" above final grade, with lids properly secured.
4. System start-up and documentation to be performed by installation contractor in coordination with local health department
5. System operation and maintenance (O&M) inspections done by approved service contractor per specifications and applicable state/local regulations.
6. Infiltration chambers shall be "QUICK4 PLUS EQUALIZER 36 LOW PROFILE CHAMBER" by Infiltrator Water Technologies, or equal. Contractor shall follow manufacturer's installation instructions. (see sheet 6)

Operation and Maintenance (O&M) Requirements:

1. The property owner shall be responsible for maintaining a service contract with a licensed Service Provider for the life of the sewage treatment system.
2. Typically, the first two (2) years of a service contract are included with the original purchase and installation of system components. After the original contract expires, the homeowner must either renew the service contract or begin a new contract with another licensed service provider.
3. Keeping the sewage treatment system and all its components fully operational and in good condition is critical to ensuring a long system lifespan and sufficient treatment of the wastewater generated on the property.

Installation and Operational Costs:

1. The architect for the property owner has been given explanation of the sewage treatment system components and the importance of maintenance of said components, however Otisco Engineering is not a dealer of components and therefore cannot give specifics regarding installation costs, operational costs, or costs of maintenance contracts. The property owner will need to obtain this information from the licensed installer who will be performing the installation at this property. Please be advised that the local health department may or may not grant permit approval prior to this information being obtained.



1,000 gallon precast two compartment septic tank w/ effluent filter by SI Precast or ODH approved Equal

REVISION

DATE

NO.



OTISCO
engineering

446 Maplebrooke Dr. E., Westerville, Ohio
www.otiscoengineering.com

STATE OF OHIO

02/08/26

GREGORY J. NORTZ

E-60080

REGISTERED PROFESSIONAL ENGINEER

LIFE FIRST AMBULANCE STATION
4585 State Route 98 Sulphur Springs, OH

SCALE:
AS NOTED

DATE:
08/17/26

DRAWN BY:
GJN

JOB NUMBER:
25036

SHEET:
C-507

ONSITE TREATMENT O&M

BUILDING DESIGN CRITERIA

GOVERNING CODE: 2024 OHIO BUILDING CODE IN CONJUNCTION WITH ASCE 7-16 AND 2021 IBC

RISK CATEGORY: IV

FLOOR LIVE LOADS:

FIRST FLOOR 100 PSF

LIVE LOAD REDUCTION PER ASCE-7

ROOF LIVE LOAD 20 PSF

SNOW LOAD:

GROUND SNOW LOAD, Pg: 20 PSF

FLAT ROOF SNOW LOAD, Pf: 18 PSF

SNOW EXPOSURE FACTOR, Ce: 1.0

SNOW IMPORTANCE FACTOR: 1.25

THERMAL FACTOR, Ct: 1.0

SNOW DRIFT: PER ASCE-7

WIND LOAD:

ULTIMATE DESIGN WIND SPEED (Vult): 120 MPH

NOMINAL DESIGN WIND SPEED (Vasd): 93 MPH

WIND EXPOSURE: C

INTERNAL PRESSURE COEFFICIENT: ±0.18

COMPONENTS AND CLADDING: SEE TABLE S-003

SEISMIC LOAD:

SEISMIC IMPORTANCE FACTOR 1.50

SITE SPECTRAL RESPONSE ACCELERATION (Ss): 0.127

SITE SPECTRAL RESPONSE ACCELERATION (S1): 0.055

SEISMIC SITE CLASS: D

DESIGN SPECTRAL RESPONSE ACCELERATION (Sds): 0.136

DESIGN SPECTRAL RESPONSE ACCELERATION (Sd1): 0.088

SEISMIC DESIGN CATEGORY: C

SEISMIC FORCE RESISTING SYSTEM: LIGHT FRAMED WOOD WALLS SHEATHED WITH STRUCTURAL PANELS

RESPONSE MODIFICATION FACTOR R: 6.5

SEISMIC RESPONSE COEFFICIENT (Cs): 0.01

ANALYSIS METHOD: EQUIVALENT LATERAL FORCE

STORM SHELTER DESIGN CRITERIA

GOVERNING CODE: 2024 OHIO BUILDING CODE IN CONJUNCTION WITH ASCE 7-16, 2021 IBC AND ICC500

RISK CATEGORY: IV

FLOOR LIVE LOADS:

FIRST FLOOR 100 PSF

LIVE LOAD REDUCTION PER ASCE-7

ROOF LIVE LOAD 100 PSF

SNOW LOAD:

GROUND SNOW LOAD, Pg: 20 PSF

FLAT ROOF SNOW LOAD, Pf: 18 PSF

SNOW EXPOSURE FACTOR, Ce: 1.0

SNOW IMPORTANCE FACTOR: 1.2

THERMAL FACTOR, Ct: 1.0

SNOW DRIFT: PER ASCE-7

WIND LOAD:

ULTIMATE DESIGN WIND SPEED (Vult): 250 MPH

WIND EXPOSURE: C

INTERNAL PRESSURE COEFFICIENT: ±0.55

COMPONENTS AND CLADDING: SEE TABLE S-003

SEISMIC LOAD:

SEISMIC IMPORTANCE FACTOR 1.50

SITE SPECTRAL RESPONSE ACCELERATION (Ss): 0.127

SITE SPECTRAL RESPONSE ACCELERATION (S1): 0.055

SEISMIC SITE CLASS: D

DESIGN SPECTRAL RESPONSE ACCELERATION (Sds): 0.136

DESIGN SPECTRAL RESPONSE ACCELERATION (Sd1): 0.088

SEISMIC DESIGN CATEGORY: C

SEISMIC FORCE RESISTING SYSTEM: ORDINARY REINFORCED MASONRY WALLS

RESPONSE MODIFICATION FACTOR R: 2.0

SEISMIC RESPONSE COEFFICIENT (Cs): 0.01

ANALYSIS METHOD: EQUIVALENT LATERAL FORCE

GENERAL CONDITIONS:

- SEE ALL CONTRACT DOCUMENTS FOR QUALITY OF CONSTRUCTION REQUIRED, QUALITY OF WORK, MANUFACTURING AND INDUSTRY STANDARDS, PHYSICAL PROPERTIES OF MATERIALS, CONFORMANCE TO CODES AND REGULATIONS GUARANTEE AND WARRANTY REQUIREMENTS.
 - SEE ARCHITECTURAL, HVAC, PLUMBING, FIRE PROTECTION & ELECTRICAL DRAWINGS FOR OTHER PERTINENT INFORMATION RELATED TO STRUCTURAL WORK AND COORDINATE AS REQUIRED. CONTRACTOR SHALL COORDINATE STRUCTURAL DRAWINGS WITH ALL OTHER DRAWINGS WITHIN THE CONTRACT DOCUMENTS.
 - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS RELATED TO EXISTING CONSTRUCTION, EXISTING SERVICES, AND THE SITE BEFORE BEGINNING WORK.
 - CONSTRUCTION LOADS SHALL NOT EXCEED DESIGN LIVE LOADS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DESIGN REQUIRED TO SUPPORT CONSTRUCTION EQUIPMENT SHORING AND RESHORING USED IN CONSTRUCTING THIS PROJECT. THE DESIGN SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER HIRED BY THE CONTRACTOR AND LICENSED IN THE STATE OF THE PROJECT.
 - IF MATERIALS, QUANTITIES, STRENGTHS OR SIZES INDICATED BY THE DRAWINGS OR SPECIFICATIONS ARE NOT IN AGREEMENT WITH THESE NOTES, THE BETTER QUALITY AND/OR QUANTITY, STRENGTH OR SIZE INDICATED, SPECIFIED OR NOTED SHALL BE PROVIDED.
 - WHERE THE WEIGHT OF EQUIPMENT OR MATERIALS BEING STORED OR TRANSPORTED TO LOCATIONS EXCEEDS THE DESIGN LIVE LOAD OF THE AFFECTED AREA, THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING OR OTHER LOAD SPREADING MEANS TO DISTRIBUTE THE STORED OR TRANSPORTED WEIGHT. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN OF SUCH TEMPORARY COMPONENTS AS NEEDED.
 - THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION.
 - THE CONTRACTOR IS SOLELY RESPONSIBLE TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE FOLLOWING ITEMS THAT WILL NOT BE REVIEWED BY THE OWNER, ARCHITECT OR ENGINEER:
 - DEVIATIONS FROM CONTRACT DOCUMENTS.
 - DIMENSIONS, ELEVATIONS AND CONDITIONS TO BE CONFIRMED AND CORRELATED AT THE SITE.
 - FABRICATION PROCESS INFORMATION.
 - CONSTRUCTION MEANS AND METHODS.
 - TEMPORARY SHORING, GUYING OR BRACING.
 - COORDINATION OF THE WORK OF ALL TRADES.
 - ANY CHANGES TO THE STRUCTURAL SYSTEMS SHALL BE REDESIGNED BY A PROFESSIONAL ENGINEER AT NO COST TO THE OWNER OR THE A/E AND SUBMITTED TO THE A/E FOR REVIEW. SUBMITTAL SHALL BE ACKNOWLEDGED IN WRITING BEFORE BEGINNING CONSTRUCTION. IF CHANGES ARE MADE WITHOUT WRITTEN APPROVAL SUCH CHANGES SHALL BE THE LEGAL AND FINANCIAL RESPONSIBILITY OF THE PARTY MAKING THE CHANGE TO REPLACE OR REPAIR THE CONDITION AS DIRECTED BY THE A/E.
- SIEVE SIZE TOTAL % PASSING
- | | |
|-------|--------|
| 1" | 100 |
| 3/4" | 90-100 |
| 3/8" | 20-55 |
| NO. 4 | 0-10 |
| NO. 8 | 0-5 |
- C. WELL GRADED GRANULAR MATERIAL (#8) SHALL CONFORM WITH ASTM C33.
- ALL EXCAVATIONS ARE SUBJECT TO THE APPROVAL OF THE OWNER AND TESTING AGENCY WHO SHALL BE CONSULTED WHEN POOR SOIL, WATER, OBSTRUCTIONS, PIPING, ADJACENT SEWERS, EXISTING FOOTINGS, EXCAVATIONS, ETC. ARE ENCOUNTERED.
 - EXCAVATION AND COMPACTION:
 - CARE SHALL BE TAKEN TO NOT TO DISTURB THE BOTTOM OF THE EXCAVATION. EXCAVATION TO FINAL GRADE SHALL NOT BE MADE UNTIL JUST PRIOR TO PLACING CONCRETE.
 - KEEP FOUNDATION EXCAVATIONS FREE OF WATER AT ALL TIMES. REPLACE WEAKENED SOIL WITH LEAN CONCRETE (1500 PSI).
 - BACKFILL AND FILL SHALL BE PLACED IN LIFTS OF 8" MAXIMUM LOOSE DEPTH. EACH LIFT SHALL BE COMPACTED WITH A POWER VIBRATING COMPACTOR OR SIMILAR EQUIPMENT TO ASSURE MAXIMUM COMPACTION OF THE MATERIAL.
 - DEWATERING OF THE SITE MAY BE REQUIRED. METHODS FOR DEWATERING ARE THE CONTRACTORS RESPONSIBILITY. KEEP THE AREA OF WORK DRAINED AND FREE FROM ACCUMULATION OF SURFACE WATER AT ALL TIMES. PROVIDE, OPERATE AND MAINTAIN PUMPS, PUMPING EQUIPMENT, ETC. AS REQUIRED.
 - A TESTING AGENCY, PROVIDED BY THE OWNER, SHALL INSPECT THE CONDITION AND ASSURE THE ADEQUACY OF ALL SUBGRADES, BEARING CAPACITY, FILL AND BACKFILLS BEFORE PLACEMENT OF FOUNDATIONS. TEST RESULTS SHALL BE SENT TO THE ENGINEER AND TO THE OWNER.
 - AT FOOTING SUBGRADES, AT LEAST ONE TEST OF EACH SOIL STRATUM WILL BE PERFORMED TO VERIFY DESIGN BEARING CAPACITIES.
 - TESTING AGENCY WILL TEST COMPACTION OF SOILS IN PLACE ACCORDING TO ASTM D1556, D2167, D2922, AND ASTM D2937, AS APPLICABLE. TEST PER FOLLOWING:
 - PAVED AND BUILDING SLAB AREAS: AT SUBGRADE AND AT EACH COMPACTED FILL LAYER, AT LEAST ONE TEST FOR EVERY 2000 SQ. FT., BUT IN NO CASE LESS THAN 3 TESTS.
 - FOOTINGS: AT EACH COMPACTED BACKFILL LAYER AT EACH FOOTING OR ONE TEST FOR EACH 100 FT. OF WALL FOOTING.
 - CONTRACTOR SHALL RECOMPACT AND RETEST UNTIL SPECIFIED COMPACTION IS OBTAINED.

GEOTECHNICAL REPORT:

- REFERENCE THE GEOTECHNICAL REPORT COMPLETED FOR THIS SITE BY GEOTECHNICAL CONSULTANTS INC (25-G-31251) DATED 5/13/2026 FOR FURTHER INFORMATION RELATING TO THE EXISTING SUBSURFACE SOIL CONDITIONS.
- DESIGN SOIL BEARING PRESSURE = 3000 PSF.
- ENGINEERED FILL SHALL BE PLACED IN LIFTS NOT EXCEEDING 8". FILL FOR SLAB ON GRADE CONSTRUCTION SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY BY ASTM D698. FILL FOR FOOTINGS BEARING ON ENGINEERED FILL SHALL BE COMPACTED TO A MINIMUM OF 98% MAXIMUM BY ASTM D698.

EXCAVATION:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDANCE AND CLEANUP OF STREET SPILLAGE OF EXCAVATED OR BACKFILL MATERIALS ENTERING OR LEAVING THE SITE. CLEANUP OF MAJOR SPILLS SHALL BE COMPLETED IMMEDIATELY. OTHER SPILLS SHALL BE CLEANED, AT A MINIMUM, DAILY. ALL CLEANUP SHALL BE COMPLETED TO THE FULL SATISFACTION OF THE OWNER AND CONSTRUCTION MANAGER.
- THE CONTRACTOR SHALL PROPERLY MOISTEN SURFACES AS REQUIRED TO PREVENT SOILS FROM BECOMING AIRBORNE AND CREATING A NUISANCE TO NEIGHBORING FACILITIES, THE PUBLIC, AND ANY CONCURRENT WORK ACTIVITIES. THE FINAL DETERMINATION OF THE SUCCESS OF DUST CONTROL MEASURES SHALL BE THE OWNER AND CONSTRUCTION MANAGER.
- ANY SITE DE-WATERING NECESSARY TO MAINTAIN A SAFE AND EFFICIENT EXCAVATION EFFORT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL WORK SHALL BE EXECUTED AND INSPECTED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES, RULES, ORDINANCES AND REGULATIONS PERTAINING TO SITE EXCAVATION, FILL AND SHORING ACTIVITIES.
- ALL SITE GRADING SHALL BE SLOPED AS NOTED ON THE DRAWINGS, AS NOTED IN THE GEOTECHNICAL REPORT, OR AT A SHALLOWER SLOPE IF REQUIRED TO PROTECT WORKERS AND WORK IN PROGRESS FROM SOIL SLIPPAGE. ALL EXCAVATION ACTIVITIES SHALL BE COMPLETED IN ACCORDANCE WITH OCCUPATIONAL SAFETY AND HEALTH (OSHA) REQUIREMENTS AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
- ANY SHARP OR LARGE OBJECTS PROTRUDING ABOVE THE FINAL ROUGH GRADE SHALL BE REMOVED. RESULTING HOLES SHALL BE FILLED WITH SELECT FILL MEETING THE REQUIREMENTS AS SET IN THE PROJECT SPECIFICATIONS.
- ALL EXCESS EXCAVATED MATERIALS THAT ARE NOT REUSABLE SHALL BE REMOVED FROM THE SITE PROPERLY AND LEGALLY DISPOSED AT ON OFF SITE LOCATION. REFERENCE SPECIFICATIONS FOR REQUIREMENTS RELATED TO THE IDENTIFICATION OF HAZARDOUS MATERIAL IN EXCAVATIONS AND REUSE OF EXCAVATED MATERIAL FOR BACKFILL.
- MUD-MATTING MAY BE REQUIRED TO PROVIDE STABLE SURFACE FOR FORMING AND PLACEMENT OF REINFORCING STEEL AND SUBSEQUENTLY PLACEMENT OF CONCRETE, SEE PROJECT SPECIFICATIONS.

FOUNDATIONS:

- THE GENERAL CONTRACTOR AND THE FOUNDATION CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE SURVEY AND THE GEOTECHNICAL REPORT BEFORE STARTING CONSTRUCTION.
- NOTIFY THE A/E AND OWNER'S REPRESENTATIVE OF ANY UNUSUAL SOIL CONDITION THAT ARE IN VARIANCE WITH TEST BORINGS, SUCH AS SPRING OR SEEPAGE WATER ENCOUNTERED, OR WHEN A DIFFERENT BEARING MATERIAL IS EVIDENT AND THERE IS A QUESTION OF THE BEARING CAPACITY.
- SET FOUNDATION AT ELEVATION SHOWN, OR ON FIRM UNDISTURBED MATERIAL OF DESIGN BEARING CAPACITY, WHICHEVER IS LOWER. THE GEOTECHNICAL ENGINEER SHALL VERIFY THAT EACH FOOTING PLACED IS BEARING ON DESIGN MATERIAL.
 - ALL SOIL SURROUNDING AND UNDER ALL FOOTINGS, FLOOR SLABS, ETC. SHALL BE PROTECTED FROM FREEZING AND FROST ACTION DURING CONSTRUCTION.
 - WHERE FOOTINGS ARE IN CLOSE PROXIMITY OF SEWERS, DRAINS, CONDUITS UNDER FLOOR PIPES, ETC., BOTTOM OF ALL FOOTINGS SHALL BE AT OR BELOW INVERT ELEVATIONS OF ELEMENTS NOTED HEREIN.
- STEP FOOTINGS AT A RATIO OF ONE (1) VERTICAL TO TWO (2) HORIZONTAL, WITH A MAXIMUM VERTICAL STEP OF 2'-0" UNLESS NOTED OTHERWISE.
- SITE PREPARATION, STRIPPING, PROOF ROLLING, FILLING AND BACKFILLING SHALL BE DONE IN COMPLIANCE WITH PROJECT SPECIFICATIONS AND IN CONJUNCTION WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. ALL FILL MATERIAL SHALL MEET THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.
- INUNDATION AND LONG TERM EXPOSURE OF BEARING SURFACES, WHICH WILL RESULT IN DETERIORATION OF BEARING FORMATIONS SHALL BE PREVENTED. EXCAVATION TO FINAL BEARING ELEVATION SHALL NOT BE MADE UNTIL JUST PRIOR TO PLACING FOUNDATIONS.
- BACKFILLING AGAINST FOUNDATION/BASEMENT WALLS SHALL NOT BE PERMITTED UNTIL THE SUPPORTING FLOORS ARE IN PLACE AND ARE ABLE TO RESIST THE IMPOSED LATERAL FORCES. EXCEPT FOR CANTILEVER RETAINING WALLS OR UNLESS NOTED OTHERWISE ON DRAWINGS, THE WALLS ARE SUPPORTED BY THE FLOOR ABOVE AND BELOW. PROPER TEMPORARY BRACING MAY BE USED IN LIEU OF THE FLOOR SUPPORT BASED UPON THE DESIGN BY A PROFESSIONAL ENGINEER. THE DESIGN OF TEMPORARY BRACING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- BACKFILL AND FILL MATERIALS SHALL BE FREE OF DEBRIS, WASTE, FROZEN MATERIAL, ORGANIC AND OTHER DELETERIOUS MATTER:
 - POROUS FILL (SUB-BASE FOR SLAB ON GRADE) SHALL BE CRUSHED LIMESTONE COMPACTED, (MINIMUM #1" OR (6") THICK UNDER FLOOR SLABS). GRADATION SHALL CONFORM WITH ASTM C33 SIZE #57.
 - DRAINAGE FILL SHALL BE WASHED, UNIFORMLY GRADED MIXTURE OF CRUSHED STONE OR UNCRUSHED GRAVEL AT EXTERIOR WALLS AND RETAINING WALL HAVING THE FOLLOWING GRADATION:

SIEVE SIZE	TOTAL % PASSING
1"	100
3/4"	90-100
3/8"	20-55
NO. 4	0-10
NO. 8	0-5
 - WELL GRADED GRANULAR MATERIAL (#8) SHALL CONFORM WITH ASTM C33.
- ALL EXCAVATIONS ARE SUBJECT TO THE APPROVAL OF THE OWNER AND TESTING AGENCY WHO SHALL BE CONSULTED WHEN POOR SOIL, WATER, OBSTRUCTIONS, PIPING, ADJACENT SEWERS, EXISTING FOOTINGS, EXCAVATIONS, ETC. ARE ENCOUNTERED.

CAST IN PLACE CONCRETE:

- CODES AND STANDARDS:

ALL CAST-IN-PLACE CONCRETE WORK, DETAILING, FABRICATION AND PLACING OF REBAR AND CONCRETE SHALL BE GOVERNED BY CONTRACT DOCUMENTS AND LATEST EDITIONS OF:

 - ACI 318 - BUILDING CODE REQUIREMENT FOR STRUCTURAL CONC.
 - ACI 315 - DETAILS AND DETAILING OF CONCRETE REINFORCEMENT.
 - ACI 301 - SPECIFICATION OF STRUCTURAL CONCRETE.
 - ACI 117 - SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS.
 - ACI 305 - SPECIFICATION OF HOT WEATHER CONCRETING.
 - ACI 306 - SPECIFICATION OF COLD WEATHER CONCRETING.
 - FIELD REFERENCE MANUAL MUST BE PRESENT ON SITE.
 - CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
- SUBMITTALS:
 - SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL WHICH INCLUDE ERECTION PLANS, POUR SEQUENCE (IF APPLICABLE), CONSTRUCTION JOINTS AND/OR EXPANSION JOINTS, ELEVATIONS AND REBAR BENDING SCHEDULES.
 - SUBMIT A MIX DESIGN FOR EACH MIX USAGE REQUIRED ON THE PROJECT.
 - SUBMIT PRODUCT LITERATURE FOR ADMIXTURES AND CURING COMPOUNDS.
 - SUBMIT REPORTS FOR ALL REQUIRED TESTING AND INSPECTIONS.
 - NO CONCRETE SHALL BE PLACED UNTIL ALL SUBMITTALS HAVE BEEN APPROVED BY STRUCTURAL ENGINEER.
- CONTINGENCY:
 - FURNISH, FABRICATE AND PLACE 5% OF REINFORCING BAR TONNAGE TO BE USED AS DIRECTED BY THE ARCHITECT/ENGINEER.
 - PROVIDE LEAN CONCRETE UNDER FOUNDATIONS FOR EARTH FILL DUE TO ACCIDENTAL OVER EXCAVATION OR POOR SOIL CONDITIONS.
 - CONTRACTOR SHALL REIMBURSE OWNER FOR ALL UNUSED ALLOWANCES LISTED ABOVE.
- OPENINGS:
 - OPENINGS SHOWN ARE FOR BIDDING PURPOSES ONLY. RECONCILE THEIR EXACT SIZES AND LOCATIONS WITH ARCHITECTURAL AND MEP REQUIREMENTS BEFORE PROCEEDING WITH WORK.
 - IF ANY OPENING NOT SHOWN ON THE PLANS IS REQUIRED, SECURE APPROVAL OF THE ARCHITECT OR ENGINEER BEFORE PROCEEDING.
 - PROVIDE 1/2 NUMBER OF BARS INTERRUPTED PLUS ONE TYPICAL EACH FACE OF OPENING. PROVIDE (2) #5 BARS AROUND ALL SLAB AND WALL OPENINGS, EXTENDING 2'-0" BEYOND OPENING IN EVERY DIRECTION UNO.
 - OPENINGS NOT EXCEEDING 16" x 16" MAY BE SLEEVED AS REQUIRED BY WORKING THE REINFORCING AROUND THEM.
- FOOTINGS, WALLS, COLUMNS AND PIERS:
 - DOWELS IN FOOTING TO MATCH VERTICAL COLUMN, PIER OR WALL REINFORCING.
 - WALLS AND FOOTING CORNER BARS TO MATCH HORIZONTAL REINFORCING.
- SLAB-ON-GROUND:
 - PLACE REINFORCING AT MID-DEPTH FOR THICKNESS 5" OR LESS AND AT 1/3 DEPTH FROM TOP FOR THICKNESS GREATER THAN 5".
 - PROVIDE #4 x 3'-0" AT MID-DEPTH OF SLAB PERPENDICULAR TO ANY DISCONTINUOUS CONTROL JOINTS OR AT RE-ENTRANT SLAB CORNERS.
 - PROVIDE SAWCUT CONTROL JOINTS IN ALL SLABS ON GRADE. THE MAXIMUM SPACING OF JOINTS SHALL BE 36 TIMES THE SLAB THICKNESS IN BOTH DIRECTIONS, UNLESS OTHERWISE NOTE.
- SPLICES:
 - REINFORCING BARS LAP SPlice LENGTHS SHALL CONFORM WITH THE MINIMUM LAP SPlice TABLE.
 - MECHANICAL BAR SPLICES DEVICES THAT PROVIDE A FULL TENSION SPlice WITH A CAPACITY OF 125 PERCENT OF THE BAR YIELD STRENGTH MAY BE USED.
 - STAGGER SPLICES IN WALLS SO THAT NO MORE THAN 1/3 OF THE REINFORCING IS SPLICED IN ANY GIVEN CROSS SECTION.
 - PROVIDE CLASS B TENSION LAP SPLICES FOR HORIZONTAL AND VERTICAL WALL REINFORCING.
- JOINTS:
 - CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY STRUCTURAL ENGINEER.
 - ALL CONSTRUCTION JOINTS BELOW GRADE SHALL HAVE WATER STOPS UNO.
 - NO HORIZONTAL CONSTRUCTION JOINT WILL BE PERMITTED IN BEAMS, SLABS AND WALLS UNLESS SPECIFICALLY SHOWN IN THE DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
 - IN WALL CONSTRUCTION, PROVIDE KEYS CONSTRUCTION JOINT AT A MAXIMUM OF 30'-0" ON CENTER AND LOCATED 8'-0" FROM COLUMN, WALL OPENING OR CORNER.
 - IN BEAM, SLAB AND WALL CONSTRUCTION, PROVIDE KEYS CONSTRUCTION JOINT AT MID-SPAN.
- FINISHES:
 - ACI 117, SURFACES OF INTERIOR SLABS ON GRADE ARE TO BE FINISHED TO THE FOLLOWING TOLERANCES: FLOOR FLATNESS F(1)=30 AND LEVELNESS F(1)=20 UNLESS NOTED OTHERWISE IN SPECIFICATIONS.
 - TYPICAL INTERIOR FLOOR AREAS TO RECEIVE CARPET, RESILIENT FLOOR COVERING, OR TO REMAIN EXPOSED - TROWELED FINISH.
 - INTERIOR FLOOR AREAS TO RECEIVE QUARRY TILE OR CERAMIC TILE - FLOATED FINISH.
 - EXTERIOR SLABS - BROOM FINISH.
 - SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT OF SPECIAL FINISHES OR TREATMENTS OF CONCRETE.
- CURING:
 - TO COMMENCE IMMEDIATELY AFTER CONCRETE PLACEMENT AND CONTINUE FOR AT LEAST 7 DAYS. DO NOT ALLOW CURING TO BE DELAYED OVERNIGHT.
 - INTERIOR SLABS TO RECEIVE QUARRY TILE OR CERAMIC TILE ARE TO BE MOIST-CURED WITHOUT THE USE OF A CURING COMPOUND.
 - ALL OTHER SLABS MAY BE EITHER MOIST-CURED OR RECEIVE AN APPLICATION OF CURING COMPOUND.
- MISCELLANEOUS:
 - PROVIDE CORROSION RESISTANT ACCESSORIES SUCH AS GRAY PLASTIC CHAIRS IN ALL EXPOSED CONCRETE CONSTRUCTION. PRECAST CONCRETE CUBES OR SAND PLATE CHAIRS SHALL BE USED FOR THE SUPPORT OF THE REINFORCING ON GRADE. CONCRETE BLOCK OR CLAY MASONRY BRICK ARE NOT PERMITTED.
 - 3/4" CHAMFER FOR EXPOSED EDGES OF CONCRETE UNO.
 - CONCRETE SLABS SHALL BEAR A MINIMUM OF 4" ON MASONRY WALLS, UNO. CONCRETE BEAMS SHALL BEAR A MINIMUM OF 8" ON MASONRY WALLS, UNLESS NOTED OTHERWISE.
 - COORDINATE WITH ALL TRADES INVOLVED FOR THE REQUIRED SIZE AND LOCATION OF ALL ANCHORS, SLEEVES, PADS, DEPRESSIONS, OPENINGS AND EMBEDS.
 - BOND BREAKER MATERIAL SHALL BE 30 POUND FELT PAPER.
 - CONCRETE TO BE DISCHARGED AT THE SITE WITHIN THE TIME LIMIT DEFINED IN ASTM C94 AFTER WATER HAS BEEN ADDED TO THE CEMENT AND AGGREGATES, ADDITION OF WATER TO THE MIX AT THE PROJECT SITE WILL NOT BE PERMITTED. ALL WATER MUST BE ADDED AT THE BATCH PLANT. SLUMP MAY BE ADJUSTED ONLY THROUGH THE USE OF ADDITIONAL WATER REDUCING ADMIXTURE OR HIGH RANGE WATER REDUCING ADMIXTURE.

NOTE: DO NOT SCALE OFF THESE DRAWINGS
ALL DIMENSIONS ARE PROVIDED IN GOOD FAITH AND BELIEVED TO BE ACCURATE. IF THERE IS ANY UNCERTAINTY, PLEASE CONTACT EOR.
NO RESPONSIBILITY WILL BE ACCEPTED FOR DISCREPANCIES RESULTING FROM SCALING OR MEASURING DIRECTLY FROM THIS DRAWING.

DRAWN BY: MFF
CHECKED BY: AC
PROJECT NUMBER: XXXX

S-001
GENERAL NOTES

BIDDING DOCUMENTS

8/17/26

REVISIONS:

#	DATE	DESCRIPTION
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4585 STATE ROUTE 98
SULPHUR SPRINGS, OH 44881



172 E. STATE ST, SUITE 600
COLUMBUS, OH 43215
PHONE: (614) 942-1050
INFO@WEARETRIAD.COM

LIFE FIRST AMBULANCE
DISTRICT

LIFE FIRST AMBULANCE
STATION

MASONRY:

1. CODES AND STANDARDS:
ALL MASONRY CONSTRUCTION SHALL BE GOVERNED BY CONTRACT DOCUMENTS AND LATEST EDITIONS OF:
A. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES TMS 402 AND SPECIFICATION FOR MASONRY STRUCTURES TMS 602.
B. BRICK INSTITUTE OF AMERICA (BIA).
C. NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA).
2. SUBMITTALS:
A. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL WHICH INCLUDE ERECTION PLANS, ELEVATIONS AND REBAR BENDING SCHEDULES.
B. SUBMIT PRODUCT LITERATURE FOR ALL MASONRY TIES USED ON THE PROJECT.
3. MASONRY LINTELS:
A. THE CONTRACTOR SHALL SUPPLY BOND BEAM LINTELS OVER ALL MASONRY OPENINGS AND RECESSES UNO. BOND BEAM LINTELS SHALL BE AS SHOWN IN THE SCHEDULE IN THE DETAIL SHEETS.
B. BOTTOM COVER SHALL BE 2" AND FILL WITH 2500 PSI GROUT.
C. ALL LINTELS SHALL HAVE A MINIMUM BEARING OF 8" OR 1" PER FOOT OF CLEAR SPAN, WHICHEVER IS LARGER.
D. EACH BEARING END SHALL HAVE A MINIMUM 24" x 3 COURSES OF SOLID MASONRY.
E. ALL REINFORCING TO EXTEND 2'-0" INTO EACH BEARING END.
F. ALL CANTILEVERED LINTELS SHALL HAVE A MINIMUM BACKSPAN OF 1.5 TIMES OPENING DIMENSION WITH A STANDARD HOOK ON THE TOP REINFORCING.
4. BOND BEAMS:
A. PROVIDE AT THE FOLLOWING LOCATIONS:
a. FLOOR ELEVATIONS.
b. TOP OF PARAPETS.
c. 4'-0" OC FOR EXTERIOR SHAFT WALLS.
B. REINFORCING TO BE MINIMUM (2) #5 TYP UNO.
5. JOINTS:
A. PROVIDE CONTROL JOINTS AT THE FOLLOWING LOCATIONS:
a. MAXIMUM SPACING OF 24'-0" OC OR 2 TIMES WALL HEIGHT.
b. 4 FEET FROM CORNER.
c. CHANGE IN WALL ELEVATION.
d. CHANGE IN WALL THICKNESS.
6. CONSTRUCTION:
A. ALL UNITS SHALL BE LAID WITH FULL MORTAR COVERAGE ON HEAD, BED (FACE SHELLS) WEBS, AND COLLAR JOINTS. UNO.
B. ALL MASONRY BELOW GRADE SHALL BE GROUTED SOLID.
C. THE FIRST COURSE OF ALL WALLS SHALL BE GROUTED SOLID.
D. ALL GROUTING OF MASONRY WALLS IS TO BE BY THE LOW-LIFT GROUTING METHOD (MAXIMUM LIFT HEIGHT 5'-0"), CONSOLIDATE EACH LIFT BY MECHANICAL VIBRATION TO ENSURE COMPLETE FILLING OF CELLS.
E. ALL VERTICALLY REINFORCED WALLS SHALL HAVE DOWELS INTO FOUNDATION THAT MATCH THE WALL BAR SIZE AND SPACING.
F. JOINT REINFORCING SHALL BE BENT AROUND CORNERS, BUT SHALL NOT BE CONTINUOUS THROUGH EXPANSION OR CONTROL JOINTS.
G. TEMPORARILY BRACE ALL MASONRY WALLS TO PROVIDE STABILITY DURING CONSTRUCTION UNTIL THE DESIGNED STRUCTURE IS COMPLETED AND CAN STABILIZE THE WALLS.
H. AT CHANGE IN BOND BEAM ELEVATION, PROVIDE LAP BETWEEN BOND BEAMS THROUGH 2 BARS OF VERTICAL REINFORCING OR 4 FEET, WHICHEVER IS GREATER.
I. ALL CORNERS ARE TO BE TIED BY MASONRY BOND.
7. MISCELLANEOUS:
A. DO NOT USE CALCIUM CHLORIDE OR ANY ADMIXTURES THAT CONTAINS CALCIUM CHLORIDE IN THE MORTAR OR GROUT.
B. PREMIXED MASONRY CEMENT IS PROHIBITED.
C. DO NOT USE FROZEN MATERIALS OR MATERIALS MIXED OR COATED WITH ICE OR FROST.
D. DO NOT BUILD ON FROZEN WORK. REMOVE AND REPLACE MASONRY WORK DAMAGED BY FROST OR FREEZING.

STRUCTURAL WOOD:

1. CODES AND STANDARDS:
ALL WOOD DETAILING, FABRICATION AND ERECTION SHALL BE GOVERNED BY CONTRACT DOCUMENTS AND LATEST EDITIONS:
A. NDS - NATIONAL DESIGN SPECIFICATION.
B. AWFPA - AMERICAN WOOD FOREST AND PAPER ASSOCIATION.
C. APA DESIGN/CONSTRUCTION GUIDE - RESIDENTIAL AND COMMERCIAL.
D. MANUAL FOR ENGINEERED WOOD CONSTRUCTION.
E. US PRODUCT STANDARD PS-1 FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD.
2. MATERIALS:
A. FASTENERS:
a. NAILS - COMMON NAILS OR EQUAL.
b. SCREWS - SIMPSON SELF DRILLING SCREWS OR EQUAL.
c. BOLTS - ASTM A307 OR EQUAL.
B. PRESSURE TREATED WOOD:
a. POWER ACTUATED FASTENERS, WEDGE OR SLEEVE ANCHORS TO BE STAINLESS STEEL CONFORMING TO AISI 303/304.
b. NAILS, ANCHOR RODS, SCREWS, BOLTS AND THREADED RODS SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM G185 COATING.
3. SUBMITTALS:
A. INDICATE MATERIAL SPECIFICATIONS, STRENGTHS, AND FINISHES.
B. PRODUCT LITERATURE FOR ALL WOOD CONNECTORS USED ON THE PROJECT.
4. CONNECTIONS:
A. ALL WOOD MEMBERS SHALL BE MINIMALLY FASTENED AS PRESCRIBED IN TABLE 2304.10.1 OF THE REFERENCED BUILDING CODE UNLESS DETAILED OTHERWISE. ALL NAILS ARE TO BE COMMON WIRE NAILS, UNLESS SPECIFICALLY NOTED OTHERWISE.
B. JOIST TO BEAMS OR JOISTS TO TRUSSES - 16 GA. STD. JOIST HANGERS, UNLESS SHOWN OTHERWISE. BEAMS TO BEAMS - 16 GA. BEAM HANGERS, UNLESS SHOWN OTHERWISE.
C. SILL PLATE ATTACH WITH MIN 1/2" DIA ANCHOR BOLT SPACED AT:
a. 48" OC TYP UNO.
b. 12" FROM CORNERS OR SPLICES.
c. MIN 3 BOLTS PER PIECE.
d. SEE SHEAR WALL SCHEDULE FOR ADDITIONAL REQUIREMENTS.
D. EACH MEMBER OF MULTIPLE MEMBER BEAMS OR COLUMNS ARE TO BE NAILED TOGETHER WITH 2 ROWS OF 10d NAILS AT 6" ON CENTER STAGGERED THE FULL LENGTH OF THE MEMBER. FOR MULTIPLE MEMBERS LVL OR LSL PRODUCTS FOLLOW MINIMUM FASTENING REQUIREMENT OF THE MANUFACTURER.
E. CONNECTION HARDWARE SPECIFIED ON THE STRUCTURAL DRAWINGS SHALL BE MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY AND SHALL BE FASTENED AS SPECIFIED IN THE SIMPSON PRODUCT AND INSTRUCTION MANUAL.
5. CONSTRUCTION:
A. USE SOLID BLOCKING AT ALL JOIST AND RAFTER BEARINGS. SOLID BLOCKING TO CONSIST OF THE SAME MEMBER SIZE AS JOISTS AND OFFSET NOT MORE THAN 6" BETWEEN BLOCKING SPANS.
B. PROVIDE SOLID BLOCKING AT MID-HEIGHT OF WALLS FOR EACH OF THE FOLLOWING CONDITIONS: EXTERIOR STUD WALLS, INTERIOR BEARING PARTITIONS, AND ALL WALL FRAMING WHICH IS NOT SHEATHED ON EACH SIDE WITH GYPSUM OR WOOD SHEATHING.
C. USE SINGLE JACK STUDS UNDER BEAM AND HEADER BEARINGS FOR ROUGH OPENINGS UP AND INCLUDING 4'-0", AND DOUBLE JACK STUDS UNDER BEAM AND HEADER BEARINGS FOR SPANS GREATER THAN 4'-0", UNLESS SHOWN OTHERWISE.
D. PROVIDE A SINGLE PLATE AT THE BOTTOM AND A DOUBLE PLATE AT THE TOP OF ALL STUD WALLS.
E. STUDS SHALL BE DOUBLED AT ALL ANGLES, CORNERS AND AROUND ALL OPENINGS.
F. AT ALL WALL LOCATIONS WHERE MULTIPLE STUDS ARE REQUIRED TO SUPPORT VERTICAL LOADS, A CONTINUOUS LOAD PATH SHALL BE PROVIDED TO SUPPORT THOSE LOADS THROUGH THE STRUCTURE INCLUSIVE OF THE FLOOR SYSTEM TO THE FOUNDATIONS. THIS MAY BE ACCOMPLISHED THROUGH THE USE OF RM JOISTS, SQUASH BLOCKS OR OTHER APPROPRIATE MEANS BASED ON LOCATION AND DETAILING CONSIDERATIONS.
G. PROVIDE TEMPORARY CONSTRUCTION EXPANSION JOINTS IN ALL WOOD STRUCTURAL PANEL FLOOR AND ROOF DIAPHRAGMS IN 80'-0" MAXIMUM INTERVALS IN ACCORDANCE WITH AMERICAN PLYWOOD ASSOCIATION'S (APA) TECHNICAL DOCUMENT U425.
H. NO STRUCTURAL MEMBER SHALL BE CUT OR NOTCHED UNLESS SPECIFICALLY SHOWN, NOTED, OR APPROVED BY THE ENGINEER.
I. WOOD LINTELS OVER OPENINGS IN NON-LOAD BEARING WALLS SHALL BE
- | WALL | HEADER | SPAN |
|------|---------|----------------|
| 2x4 | (2) 2x6 | UP TO 6'-0" |
| 2x4 | (2) 2x8 | 6'-0" TO 7'-0" |
| 2x6 | (3) 2x6 | UP TO 6'-0" |
| 2x6 | (3) 2x8 | 6'-0" TO 7'-0" |
6. MISCELLANEOUS:
A. PROTECT ALL LUMBER FROM WEATHER PRIOR TO INSTALLATION.
B. ALL WOOD ELEMENTS EXPOSED TO THE EXTERIOR SHALL BE PRESERVATIVE TREATED PER AWPA STANDARDS FOR SERVICE CONDITION AND USE CATEGORY SPECIFIC TO THE PROJECT.
C. BUILDING TRADES SHALL INSTALL EQUIPMENT (PLUMBING, MECH, ELEC, ETC) SUCH THAT BUILDING SHRINKAGE WILL NOT ADVERSELY AFFECT EQUIPMENT.
D. PROVIDE SIMPSON RPS18 REPAIR STRAPS AT ALL LOCATIONS WHERE TOP AND BOTTOM PLATES HAVE BEEN CUT FOR EQUIPMENT INSTALLATION (PLUMBING, MECH, ELEC, ETC).

PREFABRICATED METAL PLATE WOOD TRUSSES:

1. CODES AND STANDARDS:
ALL TRUSS DETAILING, FABRICATION AND ERECTIONS SHALL CONFORM TO CONSTRUCTION DOCUMENTS AND LATEST EDITIONS OF:
A. DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES.
B. TRUSS PLATE INSTITUTE PUBLICATION.
C. TIMBER CONSTRUCTION STANDARDS.
D. NATIONAL DESIGN SPECIFICATION.
2. MATERIALS:
A. LUMBER: MIN SYP #2 WITH MAXIMUM MOISTURE CONTENT 15%.
B. METAL CONNECTOR PLATES: GALVANIZED SHEET STEEL, ASTM A653, GRADE A, COATING CLASS G60 PER ASTM A653 TYPICALLY. USE COATINGS CLASS G185 WHEN FRT IS USED. MANUFACTURE WITH HOLES, PLUGS, TEETH OR PRONGS UNIFORMLY SPACED AND FORMED.
3. SUBMITTALS:
A. SUBMITTALS MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, LICENSED IN THE SAME STATE AS THE PROJECT LOCATION.
B. THE FOLLOWING INFORMATION SHALL BE SUBMITTED PRIOR TO FABRICATION:
a. LAYOUT DRAWING INDICATING LOCATION OF EACH TRUSS TYPE.
b. DESIGN OF EACH TRUSS TYPE.
c. PERMANENT HORIZONTAL AND VERTICAL BRACING.
d. TRUSS HANGER TYPE AND LOCATION FOR ALL TRUSSES FRAMING INTO TRUSSES.
e. ATTACHMENT OF MULTIPLE TRUSSES TO FORM GIRDER TRUSS.
f. ALL LAYOUT DRAWINGS AND CALCULATIONS TO BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT.
C. TRUSS FABRICATOR SHALL BE RESPONSIBLE FOR COORDINATING EXACT PROFILE FOR EACH TRUSS TYPE.
D. TRUSS FABRICATOR SHALL SUBMIT COPIES OF THE FINAL, APPROVED FABRICATION DRAWINGS TO THE DEPARTMENT OF COMMERCE, OFFICE OF CONSTRUCTION COMPLIANCE, PRIOR TO FABRICATION AND ERECTION.
4. DESIGN:
A. ROOF:
a. TOP CHORD DEAD LOAD 15 PSF
b. TOP CHORD LIVE LOAD 20 PSF + MECHANICAL LOADS
c. BOTTOM CHORD DEAD LOAD 10 PSF
d. BOTTOM CHORD LIVE LOAD 0 PSF
e. LIVE LOAD DEFLECTION L/240
B. ADDITIONAL DEAD LOAD SHALL INCLUDE LOADS APPLIED TO TRUSSES FROM OVER-FRAMED AREAS INDICATED ON PLAN.
C. SEE PLAN AND ELEVATIONS FOR ADDITIONAL LOADS TO BE CONSIDERED IN THE TRUSS DESIGN.
D. SNOW AND WIND LOADS SHALL BE IN ACCORDANCE WITH GOVERNING EDITION OF ASCE 7.
E. TRUSS LAYOUT AND PROFILES INDICATED ON THE DRAWINGS ARE SHOWN FOR SCHEMATIC INFORMATION ONLY. ACTUAL DESIGN AND LAYOUT SHALL BE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER.
5. CONNECTIONS:
A. ALL CONNECTORS AND FASTENERS IN CONTACT WITH CHEMICALLY TREATED LUMBER SUCH AS FIRE TREATED, PRESERVATIVE TREATED, ETC. SHALL BE GALVANIZED OR STAINLESS AS FOLLOWS:
a. ALL FASTENERS AND ANCHORS SHALL BE HOT DIPPED GALVANIZED PER ASTM A153, UNO.
b. ALL CONNECTORS SHALL BE GALVANIZED PER ASTM 653 GRADE G185 OR HOT DIPPED GALVANIZED PER ASTM 123, UNO.
c. FOR TREATED LUMBER CONTAINING AMMONIA, SUCH AS ACZA, RETENTION LEVELS FOR ACZA ABOVE 0.40 OR EXPOSURE TO OCEAN SALTS, LARGE BODIES OF WATER, FIRES, FERTILIZERS, ETC. CONNECTORS, FASTENERS AND ANCHORS SHALL BE STAINLESS STEEL TYPE 304 OR 316.
B. ALL CONNECTION HARDWARE SPECIFIED ON THE STRUCTURAL DRAWINGS SHALL BE MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY AND SHALL BE FASTENED AS SPECIFIED IN THE SIMPSON PRODUCT AND INSTRUCTION MANUAL.
6. CONSTRUCTION:
A. INSTALL AND FASTEN PERMANENT BRACING DURING TRUSS ERECTION AND BEFORE CONSTRUCTION LOADS ARE APPLIED. ANCHOR ENDS OF PERMANENT BRACING WHERE TERMINATING AT WALLS OR BEAMS.
B. WHERE TRUSSES ARE REQUIRED TO FRAME INTO OTHER TRUSSES DESIGN OF THE CONNECTIONS TO BE RESPONSIBILITY OF THE TRUSS SUPPLIER. TRUSS SUPPLIER TO MAKE NECESSARY PROVISIONS IN THE SUPPORTING TRUSS TO ACCEPT THE HANGER TYPE REQUIRED.
7. MISCELLANEOUS:
A. ALL GIRDER TRUSSES TO BE MINIMUM 2 PLY.
B. PROTECT ALL LUMBER FROM WEATHER PRIOR TO INSTALLATION.

POST INSTALLED ANCHOR SYSTEMS:

1. GENERAL:
A. PROVIDE ANCHORAGE MATCHING MANUFACTURER, TYPE, DIAMETER, EMBEDMENT, AND BASE MATERIAL AS INDICATED IN THE DOCUMENTS.
B. ALL POST-INSTALLED ANCHORS TO BE HAMMER DRILLED. FOLLOW ALL HOLE CLEANING AND INSTALLATION INSTRUCTIONS AS STIPULATED BY THE ANCHOR MANUFACTURER. FOLLOW ALL OSHA GUIDELINES FOR CONCRETE DRILLING AS IT PERTAINS TO SILICA DUST.
C. INSTALLATION OF ADHESIVE ANCHORS MUST BE PERFORMED BY PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS THROUGH MANUFACTURER TRAINING PROGRAMS.
D. INSTALLATION OF ADHESIVE ANCHORS IN THE HORIZONTAL OR UPWARDLY INCLINED ORIENTATION OR WHERE SUPPORTING SUSTAINED TENSION LOADS SHALL BE INSTALLED BY CERTIFIED PERSONNEL BY ACI/CRSI INSTALLATION PROGRAMS.
E. MINIMUM CONCRETE AGE FOR POST-INSTALLED ADHESIVE ANCHORS SHALL BE NOT LESS THAN 28 DAYS.
a. ALL ANCHORS IN CONTACT WITH PRESSURE TREATED LUMBER ARE TO BE HOT DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316. FASTENERS AND CONNECTORS ARE TO BE OF THE SAME MATERIAL. STAINLESS STEEL OR HOT DIPPED GALVANIZED, DO NOT MIX MATERIALS.
2. ANCHORAGE TO CONCRETE MASONRY OR BRICK MASONRY AS INDICATED:
A. FOLLOW ALL MANUFACTURERS INSTALLATION INSTRUCTIONS IN REGARD TO LOCATION OF ANCHORS AWAY FROM HEAD JOINTS, MINIMUM EDGE DISTANCES, AND MINIMUM ANCHOR SPACING.
3. CONSTRUCTION:
A. DRILLING SHALL BE PERFORMED WITH A ROTARY HAMMER DRILL AND CARBIDE TIPPED DRILL BIT IN ACCORDANCE WITH INSTRUCTIONS ACCOMPANYING ADHESIVE CARTRIDGES AND APPLICABLE ICC-ESR.
B. ALTERNATE DRILLING METHODS, SUCH AS DIAMOND CORING, MUST BE APPROVED BY THE ENGINEER OF RECORD AND COMPLY WITH THE APPLICABLE ICC-ES REPORT.
C. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE ICC-ES REPORT AND AS PRESCRIBED BY THE APPLICABLE BUILDING CODE.
D. FASTENING ELEMENTS (THREADED RODS, REBAR AND INTERNALLY THREADED INSERTS) MUST BE CLEAN, DRY AND FREE OF ANY OIL OR CONTAMINANTS.

STRUCTURAL DELEGATED DESIGN AND DEFERRED SUBMITTALS:

1. STRUCTURAL DELEGATED DESIGN AND SUBSEQUENT DEFERRED SUBMITTALS ARE FOR ELEMENTS, PARTS, OR PORTIONS OF THE OVERALL STRUCTURAL SYSTEM THAT ARE INDICATED OR REFERRED TO ON THESE DRAWINGS AND THAT ARE CRITICAL TO THE PERFORMANCE TO THE OVERALL STRUCTURAL SYSTEM DESIGN CRITERIA HAS BEEN PROVIDED FOR THESE ITEMS IN THE STRUCTURAL NOTES, PLANS, AND DETAILS.
2. STRUCTURAL DEFERRED SUBMITTALS ARE COMPLETE PACKAGE TO BE SUBMITTED FOR REVIEW THAT INCLUDE DRAWINGS AND CALCULATIONS FOR ALL DELEGATED DESIGN ITEMS INCLUDING CONNECTIONS AND ANCHORAGE TO THE BUILDING STRUCTURE. THEY SHALL BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT.
3. EOR WILL REVIEW STRUCTURAL DEFERRED SUBMITTALS TO VERIFY DESIGN CRITERIA IS COMPLIANT WITH THE APPROVED CONSTRUCTION DOCUMENTS.
4. STRUCTURAL DELEGATED DESIGN COMPONENTS SHALL NOT BE INSTALLED UNTIL APPROVED BY THE BUILDING OFFICIAL.
5. STRUCTURAL DELEGATED DESIGN ITEMS REQUIRING SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO:
A. PRE-FABRICATED WOOD TRUSSES.

NON-STRUCTURAL DELEGATED DESIGN AND DEFERRED SUBMITTALS:

1. NON-STRUCTURAL DELEGATED DESIGN AND SUBSEQUENT DEFERRED SUBMITTALS ARE FOR ITEMS NOT INCLUDED IN THE STRUCTURAL DELEGATED DESIGN SECTION. THESE ARE ITEMS THAT ARE NOT CRITICAL TO THE OVERALL PERFORMANCE OF THE STRUCTURAL SYSTEM BUT THAT IMPACT LOADS AND FORCES TO THE STRUCTURAL SYSTEM.
2. NON-STRUCTURAL DEFERRED SUBMITTALS TP INCLUDE COMPLETE DESIGN OF THE ASSEMBLY AND ANCHORAGE TO THE BUILDING STRUCTURE AND SHALL BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT.
3. EOR WILL REVIEW NON-STRUCTURAL DEFERRED SUBMITTALS TO VERIFY DESIGN CRITERIA IS COMPLIANT WITH THE APPROVED CONSTRUCTION DOCUMENTS.
4. IF THE STRUCTURAL DRAWINGS INCLUDE LOADS TO ACCOMMODATE NON-STRUCTURAL ELEMENTS, THE CONTRACTOR SHALL SUBMIT DOCUMENTS INDICATING THAT THE NON-STRUCTURAL ELEMENTS COMPLY WITH THE LOADING CRITERIA PROVIDED HEREIN.
5. WHEN THE NON-STRUCTURAL DEFERRED SUBMITTAL INDICATES THAT THE ELEMENT WILL IMPACT FORCES IN EXCESS OF LOADS THAT ARE INDICATED ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL SUBMIT A DETAILED GRAPHICAL REPRESENTATION OF THOSE DESIGN LOADS, INCLUDING MAGNITUDE, AND LOCATION. THE GRAPHIC SHALL BE ACCOMPANIED BY DOCUMENTATION INDICATING THAT THE NON-STRUCTURAL ELEMENT DESIGN COMPLIES WITH THE LOADING CRITERIA PROVIDED HEREIN..
6. NON-STRUCTURAL DELEGATED DESIGN ITEMS REQUIRING SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO:
A. METAL STAIRS, HANDRAILS AND GRAB BARS.
B. LADDERS, FENCES AND GATES.
C. PRE-FABRICATED CANOPIES, SUNSCREENS AND AWNINGS.
D. SIGNAGE.
E. STOREFRONT, CURTAIN WALL, CEILINGS AND SOFFITS.
F. DUCT, PIPES AND CONDUIT SUPPORT FRAMING.
G. LANDSCAPE STRUCTURES: TRELLIS, PLANTER BEDS, RAMPS, RETAINING WALLS AND OTHER RELATED STRUCTURES.



LIFE FIRST AMBULANCE DISTRICT

LIFE FIRST AMBULANCE STATION

4585 STATE ROUTE 98
SULPHUR SPRINGS, OH 44881



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BIDDING DOCUMENTS

8/17/26

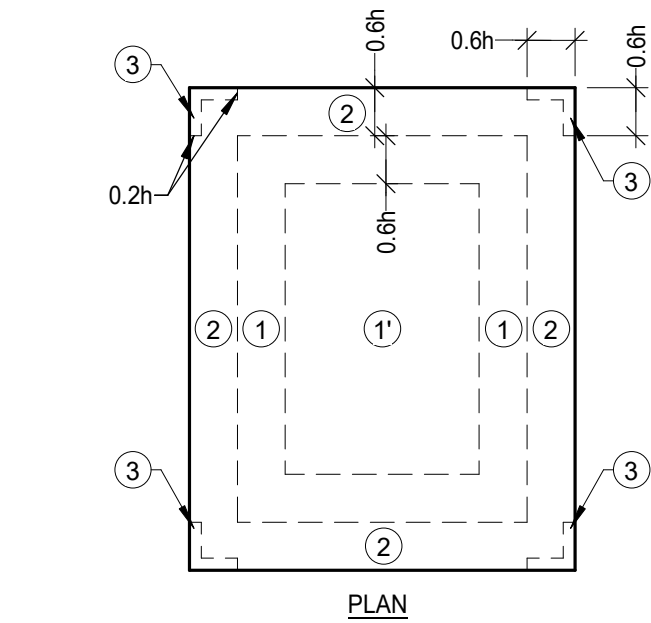
REVISIONS:

#	DATE	DESCRIPTION
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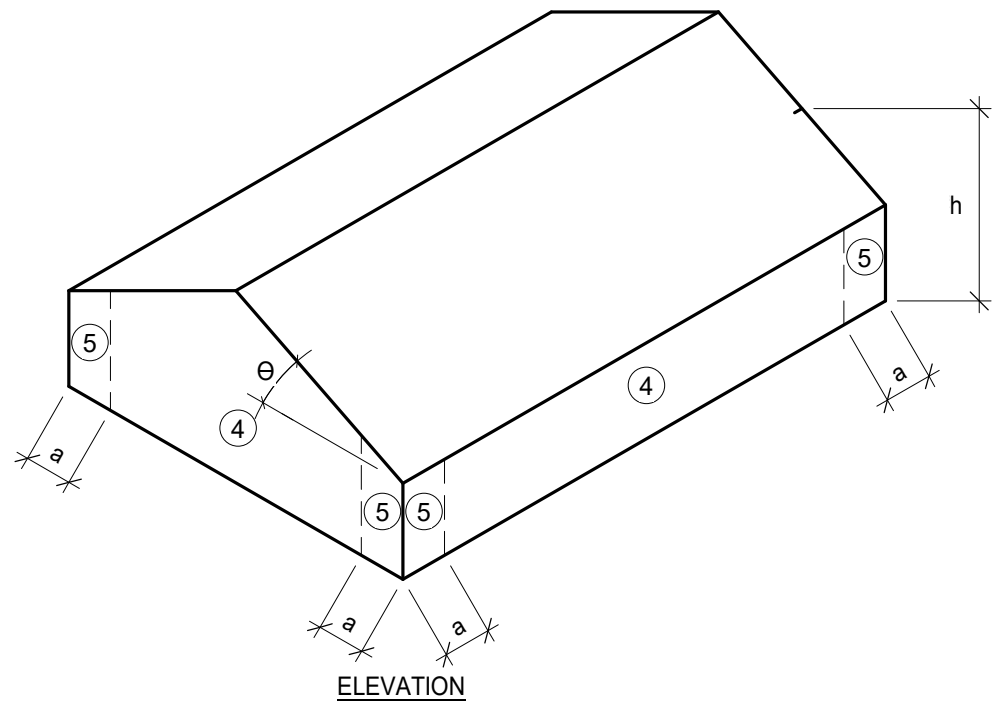
DRAWN BY: MFF
CHECKED BY: AC
PROJECT NUMBER: XXXX

S-002
GENERAL NOTES

SPECIAL INSPECTION				
	TYPE	REQUIRED	CONTINUOUS	PERIODIC
1704.4 - CONCRETE				
1	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	Yes	-	X
2	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706.	No	-	X
3	INSPECTION OF CAST-IN-PLACE ANCHOR BOLTS.	No	X	-
4	INSPECTION OF POST-INSTALLED ANCHORS	Yes	-	X
5	VERIFY USE OF REQUIRED DESIGN MIX.	Yes	-	X
6	SAMPLING SPECIMEN FOR TESTING	Yes	X	-
7	VERIFY CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	No	X	-
8	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	No	-	X
9	PRESTRESSED CONCRETE - APPLICATION OF PRESTRESSING FORCES AND GROUTING BONDED TENDONS	No	X	-
10	PRECAST CONCRETE - ERECTION OF MEMBERS.	No	-	X
11	POST TENSIONED CONCRETE - VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORESS AND FORMS FROM BEAMS AND STRUCTURAL SLAB.	No	-	X
12	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	Yes	-	X
1704.5.1 - MASONRY LEVEL 1				
1	VERIFICATION OF f'm.	Yes	-	X
2	VERIFICATION OF SLUMP FLOW	No	X	-
3	PROPORTION OF SITE-PREPARED MORTAR	No	-	X
4	CONSTRUCTION OF MORTAR JOINTS	Yes	-	X
5	LOCATION OF REINFORCEMENT	Yes	-	X
6	SIZE AND LOCATION OF STRUCTURAL ELEMENTS	Yes	-	X
7	TYPE, SIZE AND LOCATION OF MASONRY ANCHORAGE TO STRUCTURAL MEMBERS	Yes	-	X
8	TYPE, SIZE AND GRADE OF REINFORCEMENT AND ANCHOR BOLTS	Yes	-	X
9	WELDING OF REINFORCING BARS	No	X	-
10	COLD WEATHER CONSTRUCTION	No	-	X
11	PRIOR TO GROUTING - CLEANING, REINFORCEMENT PLACEMENT, GROUT PROPORTION AND MORTAR JOINTS	Yes	-	X
12	GROUT PLACEMENT	Yes	X	-
13	PREPARATION OF GROUT AND MORTAR SPECIMEN FOR TESTING	No	-	X
1704.7 - SOIL				
1	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	Yes	-	X
2	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	Yes	-	X
3	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	Yes	-	X
4	VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	Yes	X	-
5	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	Yes	-	X



GABLE ROOF ZONE
(SLOPE <=7)



WALL ZONES

WINDLOAD CC ASCE 7-16

ULT. WIND LOAD - COMPONENTS AND CLADDING					
LOCATION	ZONE	TRIBUTARY AREA			
		10 SF	100 SF	200 SF	300 SF
ROOF	1	-54.1	-28.9	-21.3	-16.9
	2	-71.5	-39.1	-29.3	-29.3
	3	-93.8	-49.1	-49.1	-49.1
LOCATION	ZONE	TRIBUTARY AREA			
		10 SF	100 SF	200 SF	500 SF
WALL	4	-31.8	-27.4	-26.1	-24.3
	5	-39.2	-30.4	-27.8	-24.3
	4&5	29.3	24.9	23.6	21.8
a	3.9	ft			
0.2h	3.2	ft	0.6h	9.6	ft

STORM SHELTER ULT. WIND LOAD - COMPONENTS AND CLADDING					
LOCATION	ZONE	TRIBUTARY AREA			
		10 SF	100 SF	200 SF	300 SF
ROOF	1	-472.0	-277.0	-218.3	-184.0
	2	-606.4	-355.6	-280.0	-280.0
	3	-779.2	-433.6	-433.6	-433.6
LOCATION	ZONE	TRIBUTARY AREA			
		10 SF	100 SF	200 SF	500 SF
WALL	4	-264.0	-235.7	-227.2	-216.0
	5	-312.0	-255.5	-238.5	-216.0
	4&5	188.8	160.5	152.0	140.8
a	3.9	ft			
0.2h	3.2	ft	0.6h	9.6	ft

CONCRETE REBAR DEVELOPMENT LENGTH - Fc = 4000 PSI								
BEAM SIZE	3/4" COVER		1 1/2" COVER		2" COVER		3" COVER	
	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER
#3	12"	12"	12"	12"	12"	12"	12"	12"
#4	19"	15"	15"	12"	15"	12"	15"	12"
#5	28"	21"	19"	15"	19"	15"	19"	15"
#6	37"	29"	23"	18"	23"	18"	23"	18"
#7	60"	46"	37"	29"	33"	25"	33"	25"
#8	74"	57"	47"	36"	37"	29"	37"	29"
#9	90"	69"	58"	44"	46"	36"	42"	33"
#10	108"	83"	70"	54"	57"	44"	47"	37"
#11	127"	98"	84"	65"	68"	53"	53"	41"
#14	167"	128"	113"	87"	94"	72"	69"	54"
#18	251"	193"	180"	138"	151"	116"	115"	88"

CONCRETE REBAR LAP SPLICE (CLASS B) - fc = 4000 PSI								
BAR SIZE	COVER = 3/4"		COVER = 1 1/2"		COVER = 2"		COVER = 3"	
	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER
#3	15"	12"	15"	12"	15"	12"	15"	12"
#4	25"	19"	20"	15"	20"	15"	20"	15"
#5	36"	28"	25"	19"	25"	19"	25"	19"
#6	49"	37"	29"	23"	29"	23"	29"	23"
#7	78"	60"	48"	37"	43"	33"	43"	33"
#8	97"	74"	61"	47"	49"	37"	49"	37"
#9	117"	90"	75"	58"	60"	46"	55"	42"
#10	141"	108"	91"	70"	74"	57"	62"	47"
#11	165"	127"	109"	84"	89"	68"	68"	53"
#14	216"	167"	147"	113"	122"	94"	90"	69"
#18	327"	251"	234"	180"	196"	151"	149"	115"

CONCRETE REBAR HOOKED (Ldh) AND HEADED (Ldt) DEVELOPMENT LENGTHS						
REBAR SIZE	Fc = 3000 PSI		Fc = 4000 PSI		Fc = 5000 PSI	
	Ldh	Ldt	Ldh	Ldt	Ldh	Ldt
#3	9"	7"	8"	7"	7"	6"
#4	11"	9"	10"	8"	9"	7"
#5	14"	11"	12"	10"	11"	9"
#6	17"	14"	15"	12"	13"	11"
#7	20"	16"	17"	14"	15"	12"
#8	22"	18"	19"	16"	17"	14"
#9	25"	20"	22"	18"	19"	16"
#10	28"	23"	24"	20"	22"	18"
#11	31"	25"	27"	22"	24"	20"
#14	37"	30"	32"	26"	29"	23"
#18	50"	40"	843	35"	39"	31"

CONCRETE REBAR COMPRESSION DEVELOPMENT (Ldc) AND LAP SPLICE (Lsc) LENGTHS						
REBAR SIZE	Fc = 3000 PSI		Fc = 4000 PSI		Fc = 5000 PSI	
	Ldc	Lsc	Ldc	Lsc	Ldc	Lsc
#3	9"	12"	8"	12"	8"	12"
#4	11"	15"	10"	15"	9"	15"
#5	14"	19"	12"	19"	12"	19"
#6	17"	23"	15"	23"	14"	23"
#7	20"	27"	17"	27"	16"	27"
#8	22"	30"	19"	30"	18"	30"
#9	25"	34"	22"	34"	21"	34"
#10	28"	39"	25"	39"	23"	39"
#11	31"	43"	27"	43"	26"	43"
#14	37"	51"	32"	51"	31"	51"
#18	50"	68"	43"	68"	41"	68"

WWF LAP LENGTH TABLE	
WIRE JOINT REINFORCEMENT	REQUIRED LAP
W1.1 (11 GA.)	6"
W1.7 (9 GA.)	6"
W2.1 (8 GA.)	6"
W2.8 (3/16 WIRE)	9"
W4.9 (1/4 WIRE)	12"

MASONRY REBAR LAP AND SPLICE LENGTH TABLE					
BAR SIZE	f'm = 2000 PSI , Fy=60 KSI REINF, NON-COATED REBAR AND 2" COVER				
	CENTERED IN CELL			EA. FACE OF CELL	
	8" CMU	10" CMU	12" CMU	8" CMU	10" CMU
#3	12"	12"	12"	13"	13"
#4	13"	12"	12"	22"	22"
#5	20"	16"	13"	-	34"
#6	37"	29"	24"	-	54"
#7	52"	40"	33"	-	-
#8	72"	61"	50"	-	-

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(614) 556-4272 | www.osborn-eng.com

LIFE FIRST AMBULANCE DISTRICT

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S-003
GENERAL NOTES

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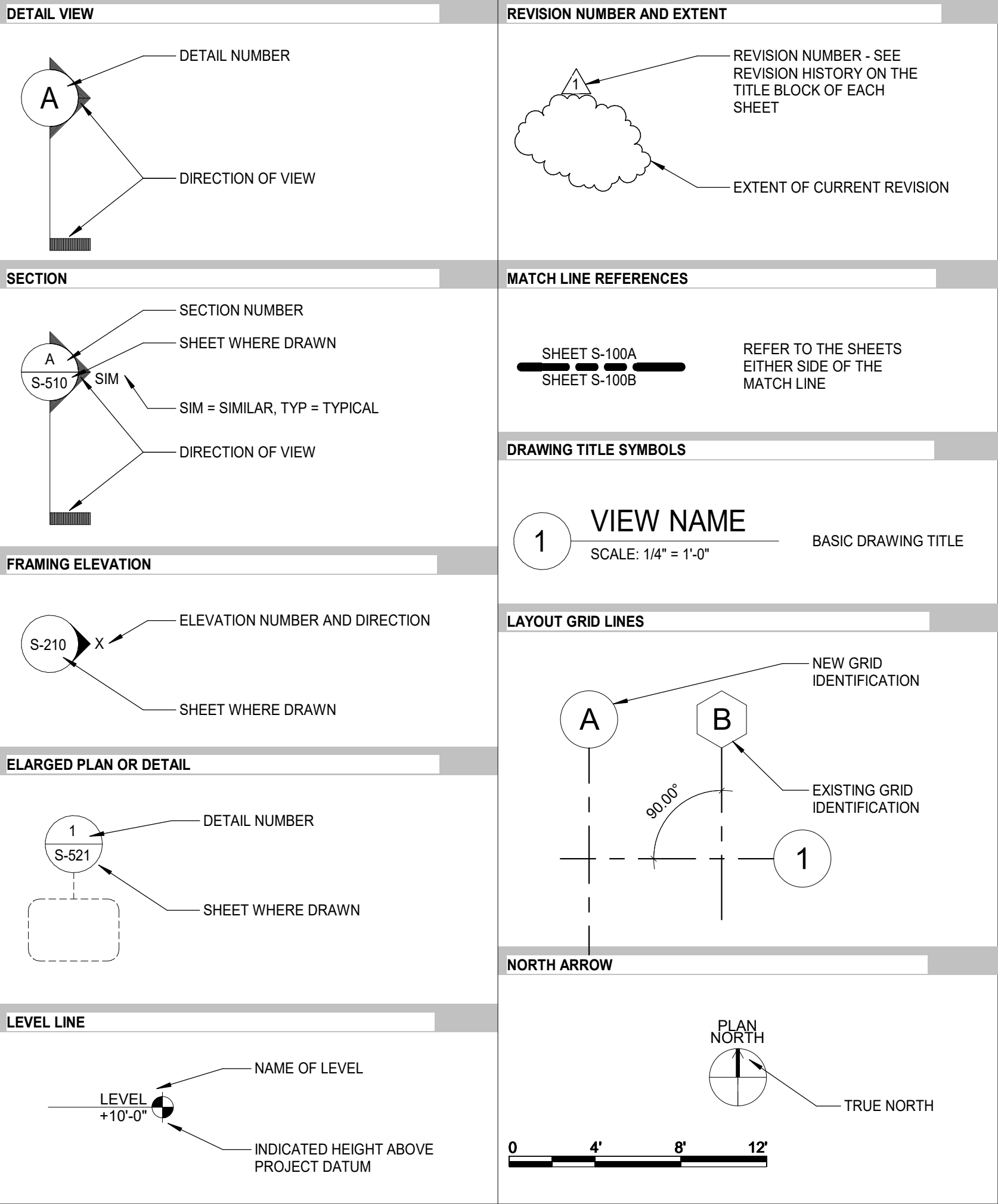
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ABBREVIATIONS

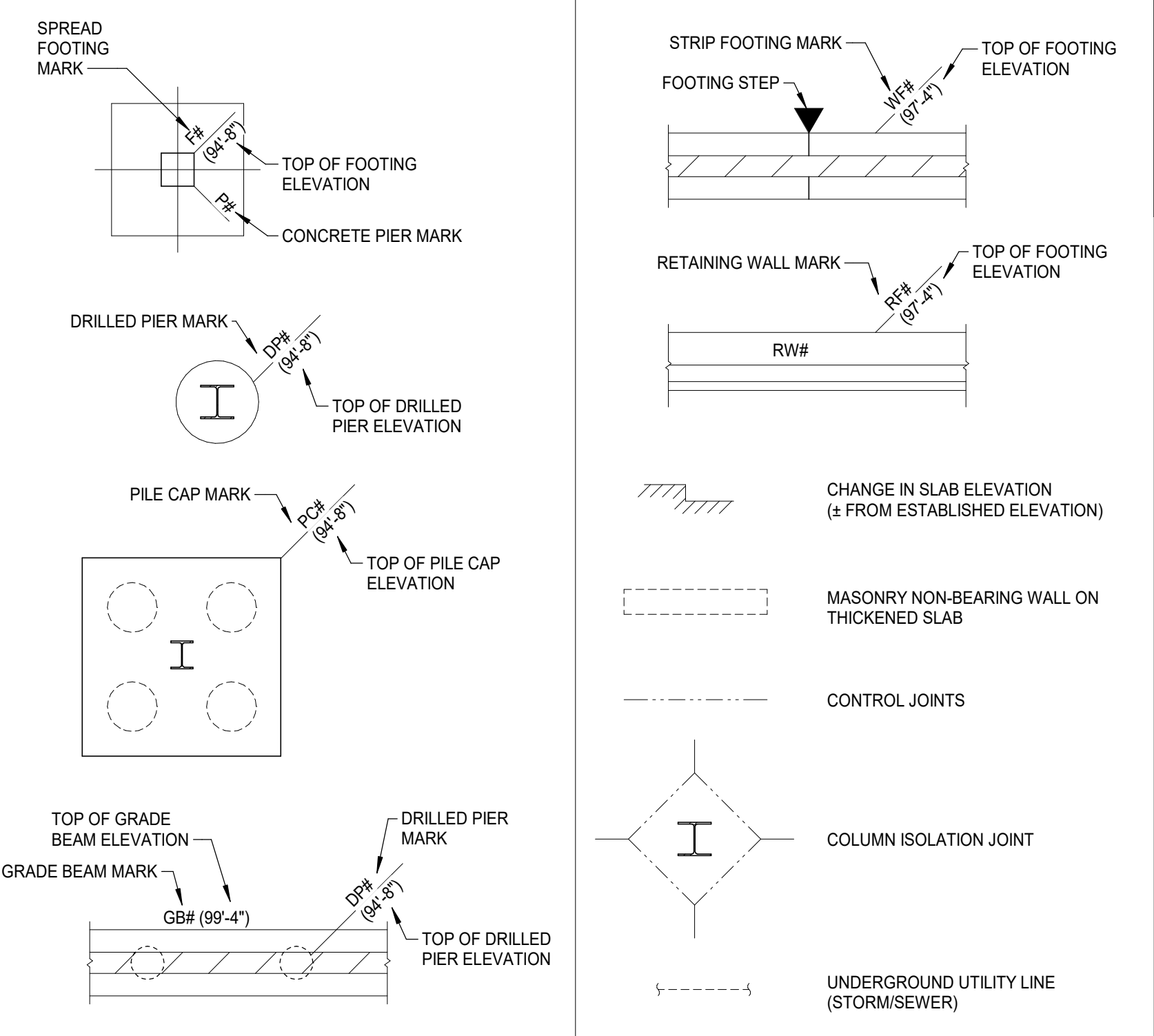
SYMBOLS			
&	AND	F	FABRICATE
@	AT	FD	FLOOR DRAIN
±	PLUS OR MINUS	FDN	FOUNDATION
Ø	DIAMETER	FIN	FINISH
ic'	CONCRETE COMPRESSIVE STRENGTH	FLR	FLOOR
fm'	MASONRY COMPRESSIVE STRENGTH	FRM	FRAMING
		FS	FAR SIDE
		FT	FOOT / FEET
		FTG	FOOTING
A		G	
AR	ANCHOR ROD	GA	GAUGE
ACI	AMERICAN CONCRETE INSTITUTE	GALV	GALVANIZED
AE	ARCHITECT/ENGINEER	GB	GRADE BEAM
ADD	ADDENDUM	GC	GENERAL CONTRACTOR
ADDL	ADDITIONAL	GLB	GLUE LAMINATED BEAM
ADJ	ADJACENT	GLC	GLUE LAMINATED COLUMN
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	GLULAM	GLUE LAMINATED
AFF	ABOVE FINISH FLOOR	GR	GRADE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	GRTG	GRATING
AL	ALUMINUM	GT	GIRDER TRUSS
ALT	ALTERNATE	GYP	GYPSUM
AOR	ARCHITECT OF RECORD		
APPROX	APPROXIMATE	H	
ARCH	ARCHITECT	HDR	HEADER
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	HEF	HORIZONTAL EACH FACE
ASD	ALLOWABLE STRENGTH DESIGN	HGR	HANGER
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	HORIZ	HORIZONTAL
AWE	AMERICAN WELDING SOCIETY	HK	HOOK
B		HP	HIGH POINT
BAL	BOTTOM OF	HSS	HOLLOW STRUCTURAL SHAPES
BAL	BALANCE	HT	HEIGHT
BB	BOXED BEAM	HVAC	HEATING, VENTILATION, AIR CONDITIONING
BLDG	BUILDING		
BLK	BLOCK	I	
BLKG	BLOCKING	ID	INSIDE DIAMETER
BM	BEAM	IF	INSIDE FACE
BN	BOUNDARY NAIL	IN	INCH
BOT	BOTTOM	INCL	INCLUDE
BP	BOXED POST	INFO	INFORMATION
BRDG	BRIDGING	INT	INTERIOR
BRG	BEARING	INV	INVERT
BSMT	BASEMENT	J	
BTW	BETWEEN	JG	JOIST GIRDER
BULL	BULLETIN	JT	JOINT
C		K	
CA	CAISSON	K	KIP
CB	CONCRETE BEAM	KF	KIP FEET
C/C	CENTER TO CENTER	KLF	KIPS PER LINEAR FOOT
CALCS	CALCULATIONS	KSF	KIPS PER SQUARE FOOT
CANT	CANTILEVER	KSI	KIPS PER SQUARE INCH
CDF	CONCRETE DENSITY FILL	L	
CFMF	COLD FORM METAL FRAMING	L	ANGLE
CL	CENTERLINE	LBS	POUNDS
CLG	CEILING	LG	LONG
CF	CUBIC FEET, CUBIC FOOT	LL	LIVE LOAD
CFS	COLD FORM STUDS	LLBB	LONG LEGS BACK TO BACK
CIP	CAST IN PLACE	LLH	LONG LEG HORIZONTAL
CJ	CONTROL JOINT	LLV	LONG LEG VERTICAL
CJP	COMPLETE JOINT PENETRATION	LOC	LOCATION(S)
CLR	CLEAR	LP	LOW POINT
CM	CENTIMETER	LSP	LAMINATED STRAND LUMBER
CMU	CONCRETE MASONRY UNIT	LT GA	LIGHT GAUGE
COL	COLUMN	LTWT	LIGHT WEIGHT
COMP	COMPOSITE	LVL	LAMINATED VENEER LUMBER
CONC	CONCRETE	M	
CONN	CONNECTION	M	METER
CONST	CONSTRUCTION	MAS	MASONRY
CONT	CONTINUOUS	MATL	MATERIAL
COORD	COORDINATE	MAX	MAXIMUM
CTR	CENTER	MC	MISCELLANEOUS CHANNEL
CY	CUBIC YARD	MECH	MECHANICAL
D		MEP	MECHANICAL, ELECTRICAL, PLUMBING
d	PENNY WEIGHT	MEZZ	MEZZANINE
DBL	DOUBLE	MFR	MANUFACTURER
DEFL	DEFLECTION	MIN	MINIMUM
DEG	DEGREE	MISC	MISCELLANEOUS
DEMO	DEMOLITION	MM	MILLIMETER
DEPR	DEPRESSION	MP	MASONRY PIER
DET	DETAL	MTL	METAL
DF	DOUGLAS FIR	N	
DFL	DOUGLAS FIR LARCH	NA	NOT APPLICABLE
DIA	DIAMETER	NB	NON-BEARING
DIAG	DIAGONAL	NIC	NOT IN CONTRACT
DIM	DIMENSION	NO	DITTO
DIST	DISTANCE	NP	NUMBER
DL	DEAD LOAD	NOM	NOMINAL
DN	DOWN	NS	NEAR SIDE
do	DITTO	NTS	NOT TO SCALE
DP	DRILLED PIER	O	
DR	DRAIN	O/O	OUT TO OUT
DT	DRAIN TILE	OC	ON CENTER
DWG	DRAWING	OD	OUTSIDE DIAMETER
DWL	DOWEL	OF	OUTSIDE FACE
E		OH	OPPOSITE HAND
EA	EACH	OPG	OPENING
ECC	ECCENTRIC	OPP	OPPOSITE
EF	EACH FACE	OSB	ORIENTED STRAND BOARD
EFP	EQUIVALENT FLUID PRESSURE	OWSJ	OPEN WEB STEEL JOIST
EL	ELEVATION	P	
ELEC	ELECTRICAL	PB	POST-TENSIONED BEAM
ELEV	ELEVATOR	PC	PRECAST CONCRETE
EMBED	EMBEDMENT	PAF	POWER ACTUATED FASTENER
EN	EDGE NAIL	PCF	POUNDS PER CUBIC FOOT
ENCL	ENCLOSURE	PCI	PRESTRESSED CONCRETE INSTITUTE
ENG	ENGINEER	PDF	POWER DRIVEN FASTENER
EOD	EDGE OF DECK	PERP	PERPENDICULAR
EOR	ENGINEER OF RECORD	PJP	PARTIAL JOINT PENETRATION
EOS	EDGE OF SLAB	PL	PLATE
EQ	EQUAL	PLF	POUNDS PER LINEAR FOOT
EQUIP	EQUIPMENT	PLMB	PLUMBING
ES	EACH SIDE	PNT	POINT
EW	EACH WAY	PREFAB	PREFABRICATED
EW EF	EACH WAY EACH FACE	PROJ	PROJECTION
EX	EXISTING	PSF	POUNDS PER SQUARE FOOT
EXP	EXPANSION	PSI	POUNDS PER SQUARE INCH
EXP JT	EXPANSION JOINT	PSL	PARALLEL STRAND LUMBER
EXT	EXTERIOR	P/T	POST TENSIONED
		PT	PRESSURE TREATED LUMBER
		PUR	PURLIN
		PVC	POLYVINYL CHLORIDE
Q		R	
QTY	QUANTITY	R	RADIUS
R		RC	REINFORCED CONCRETE
R	RADIUS	RD	ROOF DRAIN
REF	REFERENCE	REF	REFERENCE
REIN	REINFORCING (REINFORCEMENT)	REIN	REINFORCING (REINFORCEMENT)
REQD	REQUIRED	REQD	REQUIRED
REV	REVISION	REV	REVISION
RF	ROOF	RF	ROOF
RFI	REQUEST FOR INFORMATION	RFI	REQUEST FOR INFORMATION
ROOM	ROOM	RM	ROOM
RO	ROUGH OPENING	RO	ROUGH OPENING
RW	RETAINING WALL	RW	RETAINING WALL
S		S	
SEC	SOIL BEARING CAPACITY	SEC	SOIL BEARING CAPACITY
SC	SLIP CRITICAL (BOLTS)	SC	SLIP CRITICAL (BOLTS)
SCHED	SCHEDULE	SCHED	SCHEDULE
SDI	STEEL DECK INSTITUTE	SDI	STEEL DECK INSTITUTE
SECT	SECTION	SECT	SECTION
SEOR	STRUCTURAL ENGINEER OF RECORD	SEOR	STRUCTURAL ENGINEER OF RECORD
SF	SQUARE FEET	SF	SQUARE FEET
SHT	SHEET	SHT	SHEET
SHTG	SHEATHING	SHTG	SHEATHING
SIM	SIMILAR	SIM	SIMILAR
SJI	STEEL JOIST INSTITUTE	SJI	STEEL JOIST INSTITUTE
SL	SNOW LOAD	SL	SNOW LOAD
SLBB	SHORT LEGS BACK TO BACK	SLBB	SHORT LEGS BACK TO BACK
SOG	SLAB ON GROUND	SOG	SLAB ON GROUND
SP	SOUTHERN PINE	SP	SOUTHERN PINE
SPA	SPACE (S) / SPACING	SPA	SPACE (S) / SPACING
SPECS	SPECIFICATIONS	SPECS	SPECIFICATIONS
SPF	SPRUCE PINE FIR	SPF	SPRUCE PINE FIR
SQ	SQUARE	SQ	SQUARE
SQ FT	SQUARE FEET	SQ FT	SQUARE FEET
SQ IN	SQUARE INCH	SQ IN	SQUARE INCH
SS	STAINLESS STEEL	SS	STAINLESS STEEL
STD	STANDARD	STD	STANDARD
STIFF	STIFFENER	STIFF	STIFFENER
STL	STEEL	STL	STEEL
STFR	STOREFRONT	STFR	STOREFRONT
STR	STRUCTURAL	STR	STRUCTURAL
SUP	SUPPORT	SUP	SUPPORT
SY	SQUARE YARD	SY	SQUARE YARD
SYM	SYMMETRICAL	SYM	SYMMETRICAL
SYP	SOUTHERN YELLOW PINE	SYP	SOUTHERN YELLOW PINE
T		T	
T	THICKNESS	T	THICKNESS
T&B	TOP AND BOTTOM	T&B	TOP AND BOTTOM
TJ	TOP OF	TJ	TOP OF
TBM	TOP OF BEAM	TBM	TOP OF BEAM
TD	TRENCH DRAIN	TD	TRENCH DRAIN
T/SLAB	TOP OF SLAB	T/SLAB	TOP OF SLAB
T/STL	TOP OF STEEL	T/STL	TOP OF STEEL
THRU	THROUGH	THRU	THROUGH
TJ	TIE JOIST	TJ	TIE JOIST
TYP	TYPICAL	TYP	TYPICAL
U		U	
UNO	UNLESS NOTED OTHERWISE	UNO	UNLESS NOTED OTHERWISE
V		V	
VEF	VERTICAL EACH FACE	VEF	VERTICAL EACH FACE
VERT	VERTICAL	VERT	VERTICAL
VIF	VERIFY IN FIELD	VIF	VERIFY IN FIELD
VOL	VOLUME	VOL	VOLUME
W		W	
W	WIDE FLANGE	W	WIDE FLANGE
W/	WITH	W/	WITH
W/O	WITH OUT	W/O	WITH OUT
WD	WOOD	WD	WOOD
WL	WIND LOAD	WL	WIND LOAD
WP	WORK POINT	WP	WORK POINT
WT	WEIGHT	WT	WEIGHT
WWF	WELDED WIRE FABRIC	WWF	WELDED WIRE FABRIC
X		X	
X-BRACE	CROSS BRACING	X-BRACE	CROSS BRACING
Y		Y	
YD	YARD	YD	YARD

SEE STRUCTURAL SYMBOLS, LEGENDS, AND SCHEDULES FOR ADDITIONAL ABBREVIATIONS. ALL ABBREVIATIONS, SYMBOLS, AND LEGENDS SHOWN ARE NOT NECESSARILY USED.

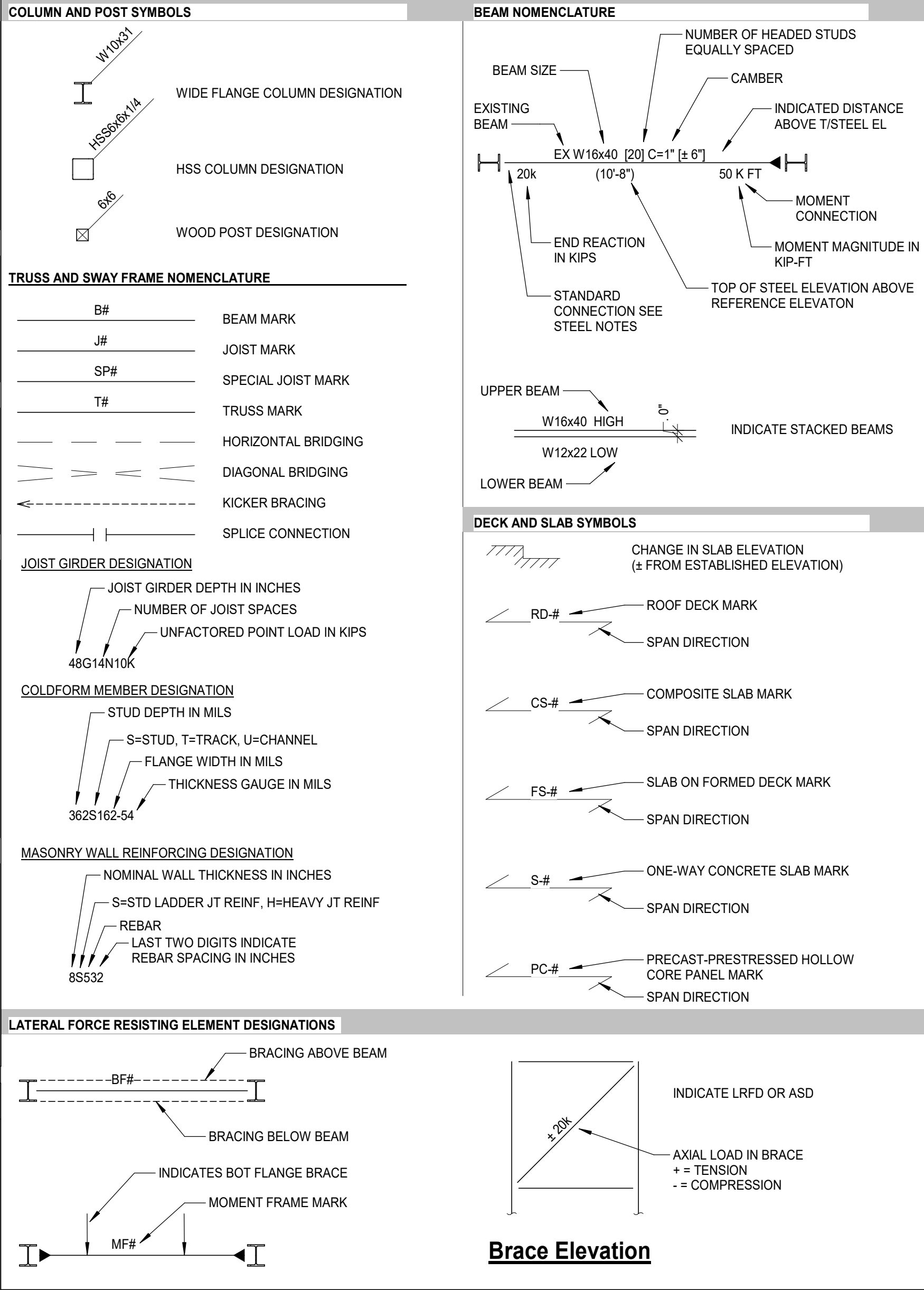
GENERAL REFERENCE



STRUCTURAL FOUNDATION PLAN SYMBOLS



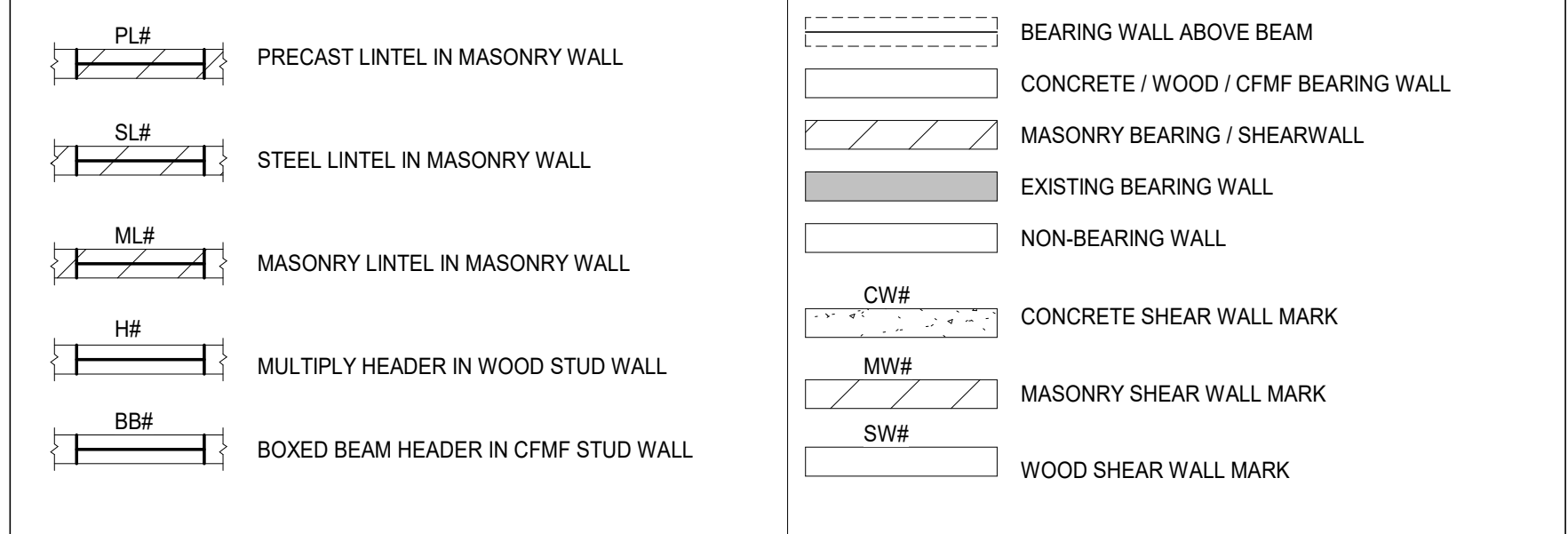
STRUCTURAL FRAMING PLAN SYMBOLS



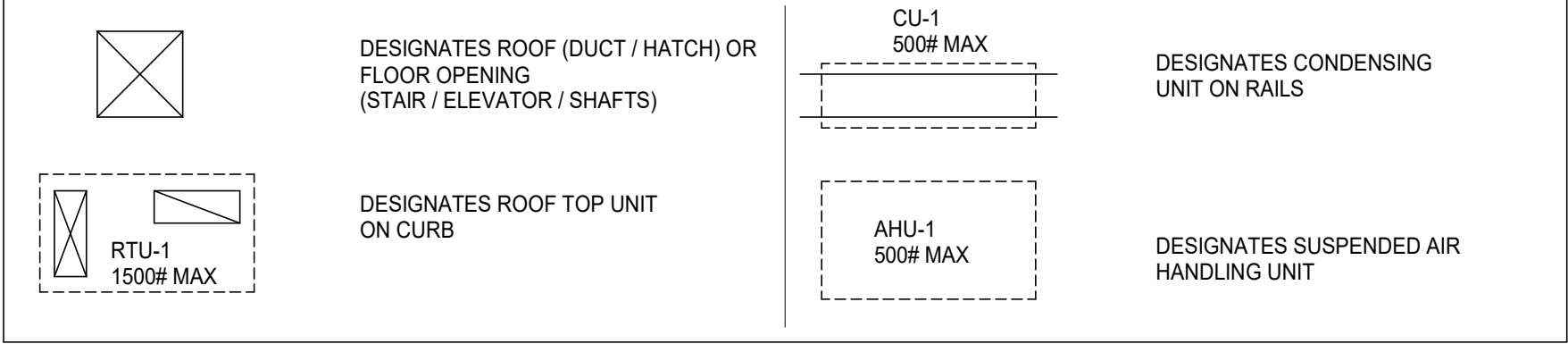
MATERIAL INDICATIONS

	EXISTING
	EARTH
	AGGREGATE BASE COURSE
	CONCRETE
	CONCRETE MASONRY UNIT
	VENEER
	WOOD FRAMING
	NOT IN SCOPE/CONTRACT
	BAR GRATING

STRUCTURAL WALL PLAN SYMBOLS



STRUCTURAL ROOF FRAMING PLAN SYMBOLS



LIFE FIRST AMBULANCE DISTRICT

LIFE FIRST AMBULANCE STATION

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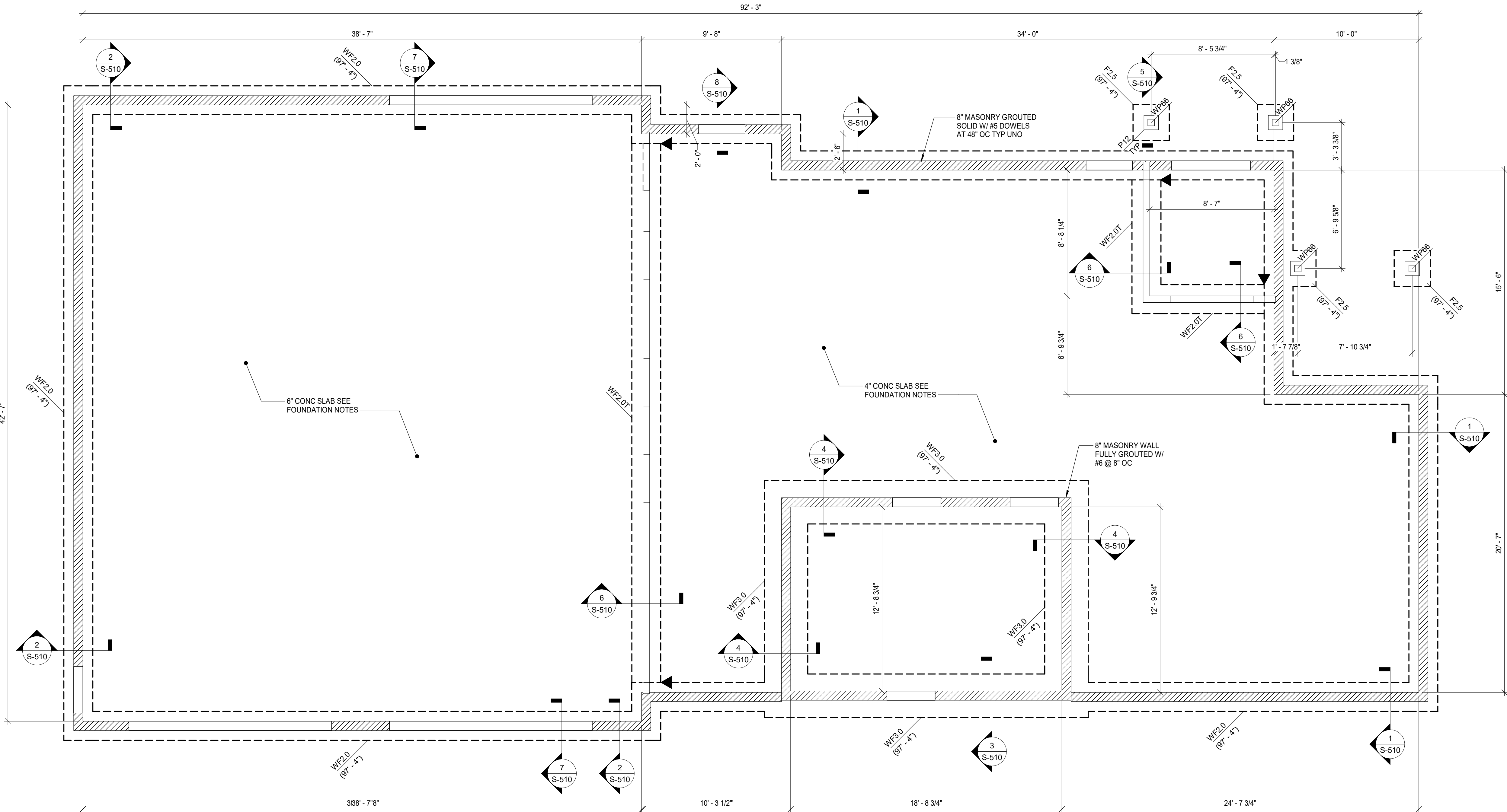
S-004
ABBREVIATIONS AND SYMBOLS

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1

FOUNDATION PLAN - BASE BID

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



SPREAD FOOTING SCHEDULE

MARK	SIZE		DEPTH	REINFORCING	REMARKS
	LENGTH	WIDTH			
F2.5	2' - 6"	2' - 6"	1' - 0"	(3)#5 EA WAY	

WALL STRIP FOOTING SCHEDULE

MARK	SIZE		REINFORCING		REMARKS
	WIDTH	DEPTH	LONGITUDINAL	TRANSVERSE	
WF2.0	2' - 0"	1' - 0"	(2)CONT #5	#5 @ 48" OC	
WF2.0T	2' - 0"	1' - 0"	(2)CONT #5	#5 @ 48" OC	
WF3.0	3' - 0"	1' - 0"	(3)CONT #5 T&B	#5 @ 48" OC	

WOOD POST SCHEDULE

MARK	SIZE	REMARKS
WP66	6x6	PT

CONCRETE PIER SCHEDULE

MARK	WIDTH	DEPTH	REBAR	TIES	REMARKS
P12	12"	12"	(4)#5	#3 AT 12" O.C	

FOUNDATION PLAN NOTES:

- REFERENCES:
 - GENERAL NOTES: S-001 - S-003
- VERIFY ALL ELEVATIONS AND DIMENSIONS SHOWN WITH ARCHITECTURAL DRAWINGS AND EQUIPMENT SUPPLIERS SHOP DRAWINGS PRIOR TO ANY FABRICATION AND INSTALLATION OF STRUCTURAL STEEL.
- COORDINATE ALL FOUNDATION THICKNESSES WITH ARCHITECTURAL WALL CONSTRUCTION.
- ELEVATIONS:
 - TOP OF SLAB = 100'-0" EQUALS SITE ELEVATION = 1033.0'
- SLAB CONSTRUCTION:
 - 4" CONCRETE SLAB ON GRADE WITH 6x6-W2.1W2.1 WWF AT MID-DEPTH OF SLAB SET ON 10 MIL VAPOR BARRIER OVER WELL COMPACTED STRUCTURAL FILL AND/OR SUBGRADE.
 - 6" CONCRETE SLAB ON GRADE WITH 6x6-W2.9xW2.9 WWF AT MID-DEPTH OF SLAB SET ON 10 MIL VAPOR BARRIER OVER WELL COMPACTED STRUCTURAL FILL AND/OR SUBGRADE.
 - COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ANY DEPRESSIONS, FLOOR DRAINS, TRENCHES ETC
 - TO BE SUPPORTED ON COMPACTED EXISTING FILL OR NEW ENGINEERED FILL TO THE RECOMMENDATION, SATISFACTION AND APPROVAL OF THE GEOTECHNICAL ENGINEER.
 - PROVIDE (2)#4 x 3'-0" AT ALL RE-ENTRANT CORNERS AND DISCONTINUOUS CONTROL JOINTS TYP UNO.
 - PROVIDE THICKENED SLAB BELOW ALL NON-LOAD BEARING MASONRY WALLS 8" AND THICKER.
- STRIP AND SPREAD FOOTING:
 - ALL EXTERIOR FOOTINGS TO EXTEND A MINIMUM OF 36" BELOW FINISHED GRADE FOR FROST DEPTH.
 - ELEVATIONS SHOWN ON FOOTING INDICATE TOP OF FOOTING.
 - ADEQUATELY STEP FOOTING TO AVOID UNDERMINING.
- CONSTRUCTION:
 - SEE GEOTECHNICAL REPORT FOR BUILDING PAD PREPARATION REQUIREMENTS.
 - NO FOUNDATION CONCRETE SHALL BE POURED PRIOR TO INSPECTION AND APPROVAL OF SOIL BEARING CAPACITY BY GEOTECHNICAL ENGINEER.
 - KEEP ALL FOUNDATIONS FREE OF WATER AT ALL TIMES.
 - WEAKENED SOIL TO BE REPLACED WITH LEAN CONCRETE.
 - BACKFILL GRADATION AND COMPACTIONS SHALL BE INSPECTED AND APPROVED BY GEOTECHNICAL ENGINEER.
- UNDERGROUND UTILITIES:
 - COORDINATION SIZE, QUANTITY, LOCATION AND INVERT ELEVATION WITH MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS PRIOR TO FOUNDATION WORK
 - SEE TYPICAL FOUNDATIONS FOR ADDITIONAL INFORMATION.



LIFE FIRST AMBULANCE DISTRICT

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FOUNDATION PLAN

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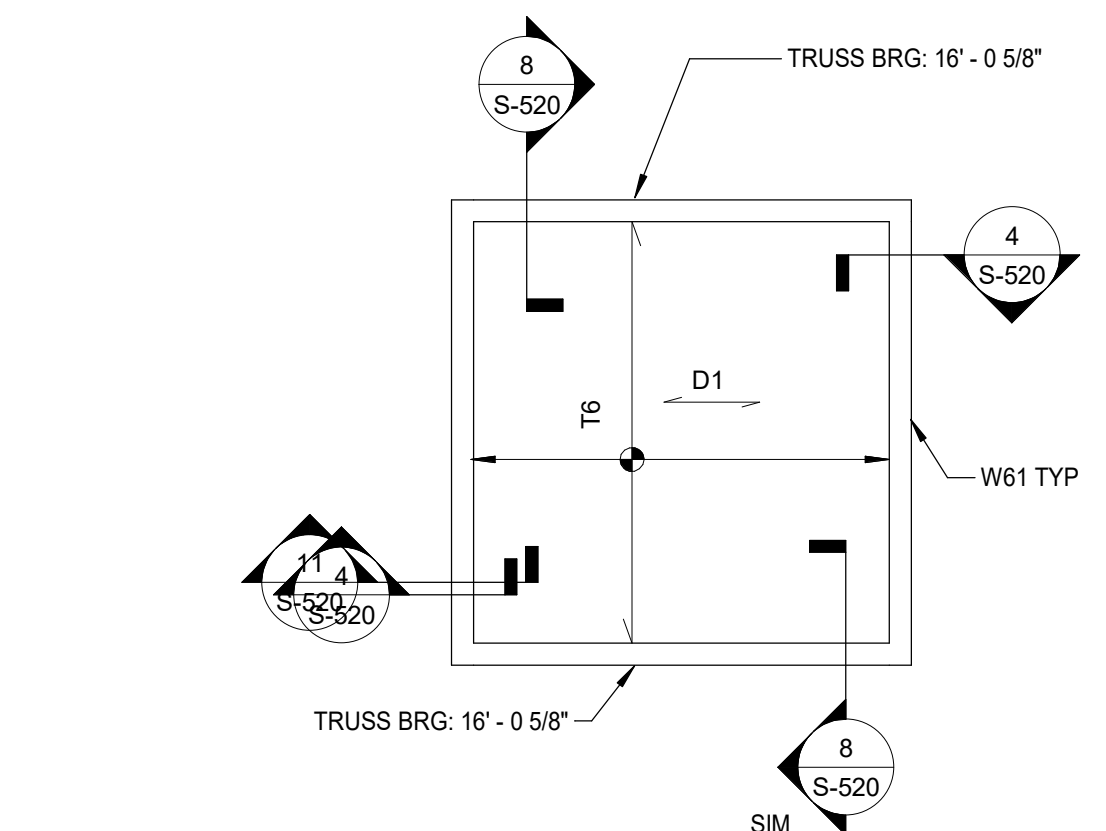
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2

HIGH ROOF FRAMING PLAN

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



MASONRY LINTEL SCHEDULE				
MARK	DEPTH	REINFORCING	BEARING	REMARK
ML1	16"	(2)#5	8"	BARS TOP AND BOTTOM

BEARING WALL SCHEDULE	
MARK	SIZE
W61	2x6 @ 16" OC
W62	(2)2x6 @ 16" OC

WOOD HEADER SCHEDULE				
MARK	SIZE	JACK STUDS	KING STUDS	REMARK
H63	(3)2x6	(2)2x6	(2)2x6	
H83	(3)2x8	(2)2x6	(2)2x6	
H113	(3)1 3/4 x 11 1/4	(3)2x6	(4)2x6	LVL

WOOD JOIST SCHEDULE		
MARK	SIZE	REMARKS
J6	2x6 @ 24" OC	

WOOD BEAM SCHEDULE		
MARK	SIZE	REMARK
B63	(3)2x6	
B83	(3)2x8	

WOOD POST SCHEDULE		
MARK	SIZE	REMARKS
WP66	6x6	PT

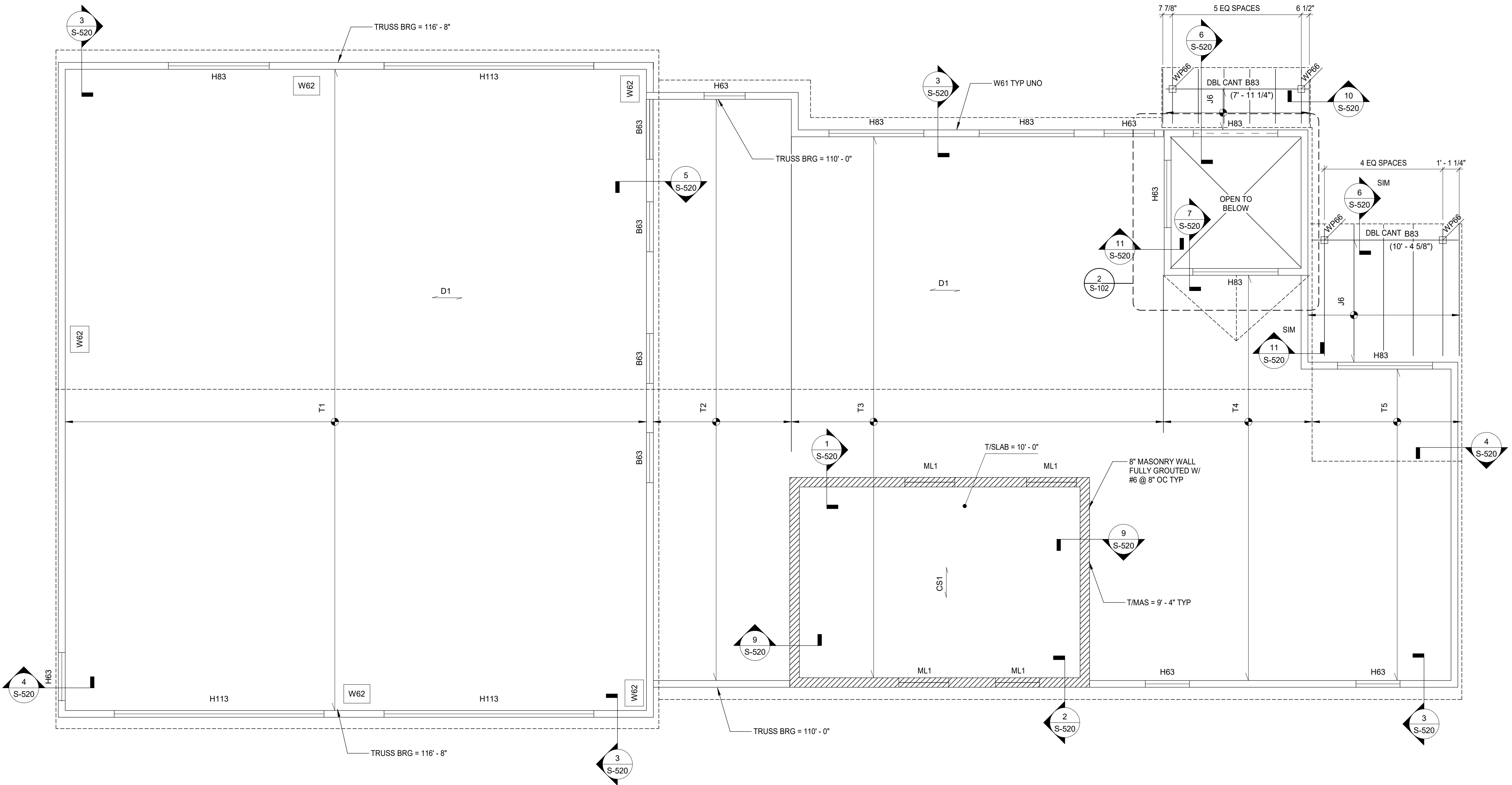
ROOF FRAMING NOTES

- REFERENCES:
 - GENERAL NOTES: S-001 - S-003
- VERIFY ALL ELEVATIONS AND DIMENSIONS SHOWN WITH ARCHITECTURAL DRAWINGS AND EQUIPMENT SUPPLIERS SHOP DRAWINGS PRIOR TO FABRICATION AND INSTALLATION OF STRUCTURAL STEEL.
- ELEVATIONS:
 - TRUSS BEARING = SEE PLAN
- ROOF CONSTRUCTION:
 - D1: 19/32" (5/8" NOMINAL) APA RATED PLYWOOD SHEATHING OVER PRE-ENGINEERED WOOD TRUSSES.
 - CS1: 8" THICK CONCRETE FLAT SLAB W/ #6 @ 8" OC N-S TOP AND BOTTOM SNF #5 @ 8" OC E-W T&B.
- CONSTRUCTION:
 - PROVIDE BENT PLATE OR ANGLE AT ALL EDGE OF DECK PROJECTIONS. SEE PLAN AND COORDINATE WITH ARCHITECTURAL DRAWINGS.
 - DO NOT SUSPEND ANY MECHANICAL DUCTS, ELECTRICAL OR PLUMBING CONDUITS DIRECTLY FROM THE DECK.
 - ALL EDGES OF ROOF DECK AT OPENINGS MUST BE SUPPORTED.
 - T# = PRE-FABRICATED ROOF TRUSS AT 24" OC. SEE S-201 FOR TRUSS PROFILES.
- COORDINATION:
 - NOTIFY EOR OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO FABRICATION AND/OR INSTALLATION.
 - SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR SIZE, QUANTITY AND LOCATION OF ROOF AND WALL OPENINGS.
 - SEE ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS FOR ALL SIZE, QUANTITY AND LOCATIONS OF ROOF PENETRATIONS.
 - NOTIFY EOR OF ANY CHANGES IN SIZE AND WEIGHT OF MECHANICAL UNITS PRIOR TO FABRICATION AND INSTALLATION OF SUPPORT FRAMING.

1

ROOF FRAMING PLAN - BASE BID

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



0 1' 2' 4' 8'



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ROOF FRAMING PLAN

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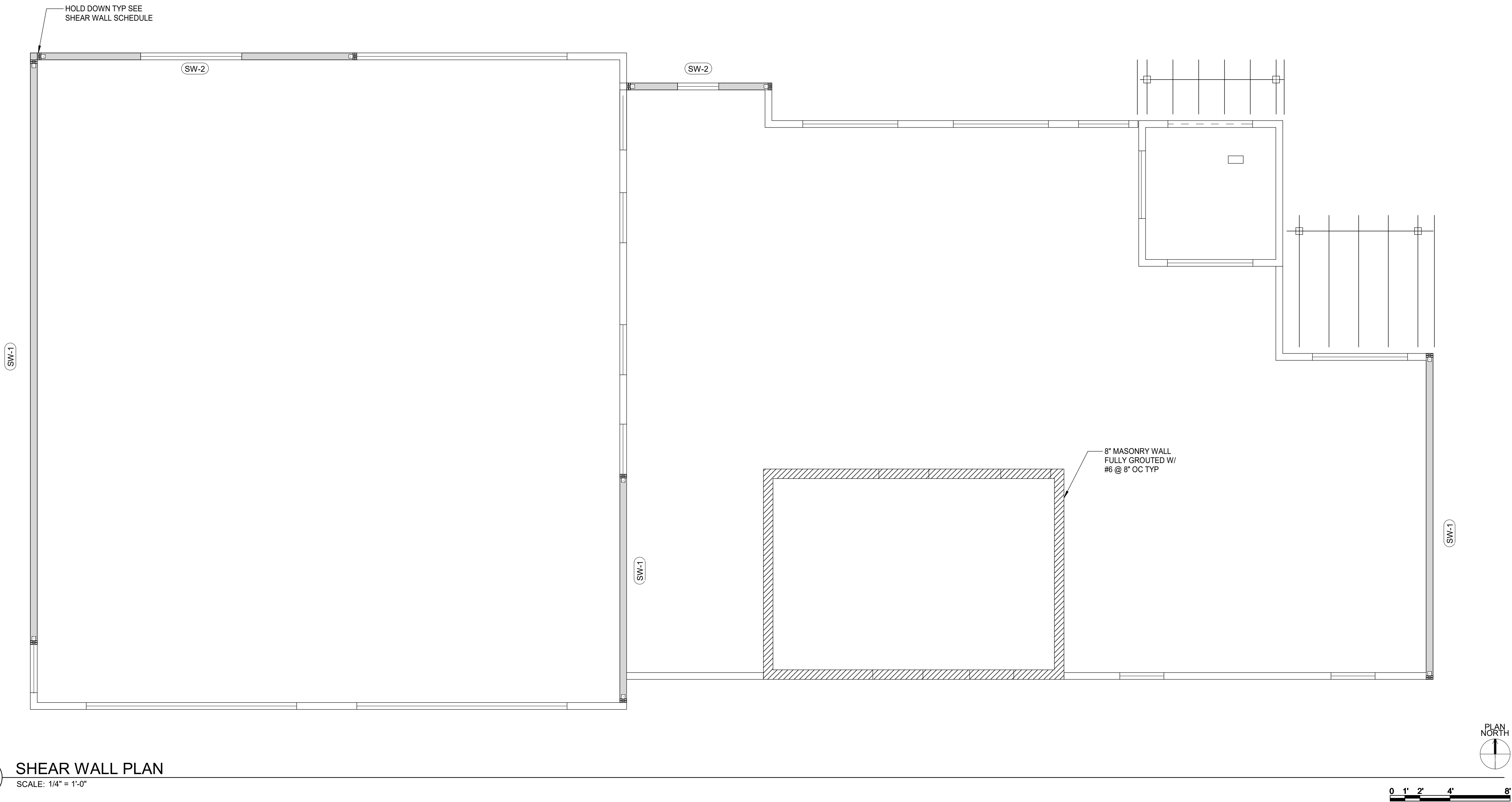
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1

SHEAR WALL PLAN

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



WOOD SHEAR WALL SCHEDULE										
MARK	SHEATHING	FASTENERS				HOLDOWN	ANCHOR			REMARKS
		SIZE	FIELD SPACING	EDGE SPACING	END POST		SIZE	TYPE	EMBEDMENT	
SW-1	R-6 ZIP	.131Ø SHANK NAILS	4"	4"	(2)2x6	HDUE5-SDS3	5/8"Ø	MECHANICAL	8"	
SW-2	R-6 ZIP	.131Ø SHANK NAILS	4"	4"	(2)2x6	HDU7-SDS3	5/8"Ø	MECHANICAL	8"	



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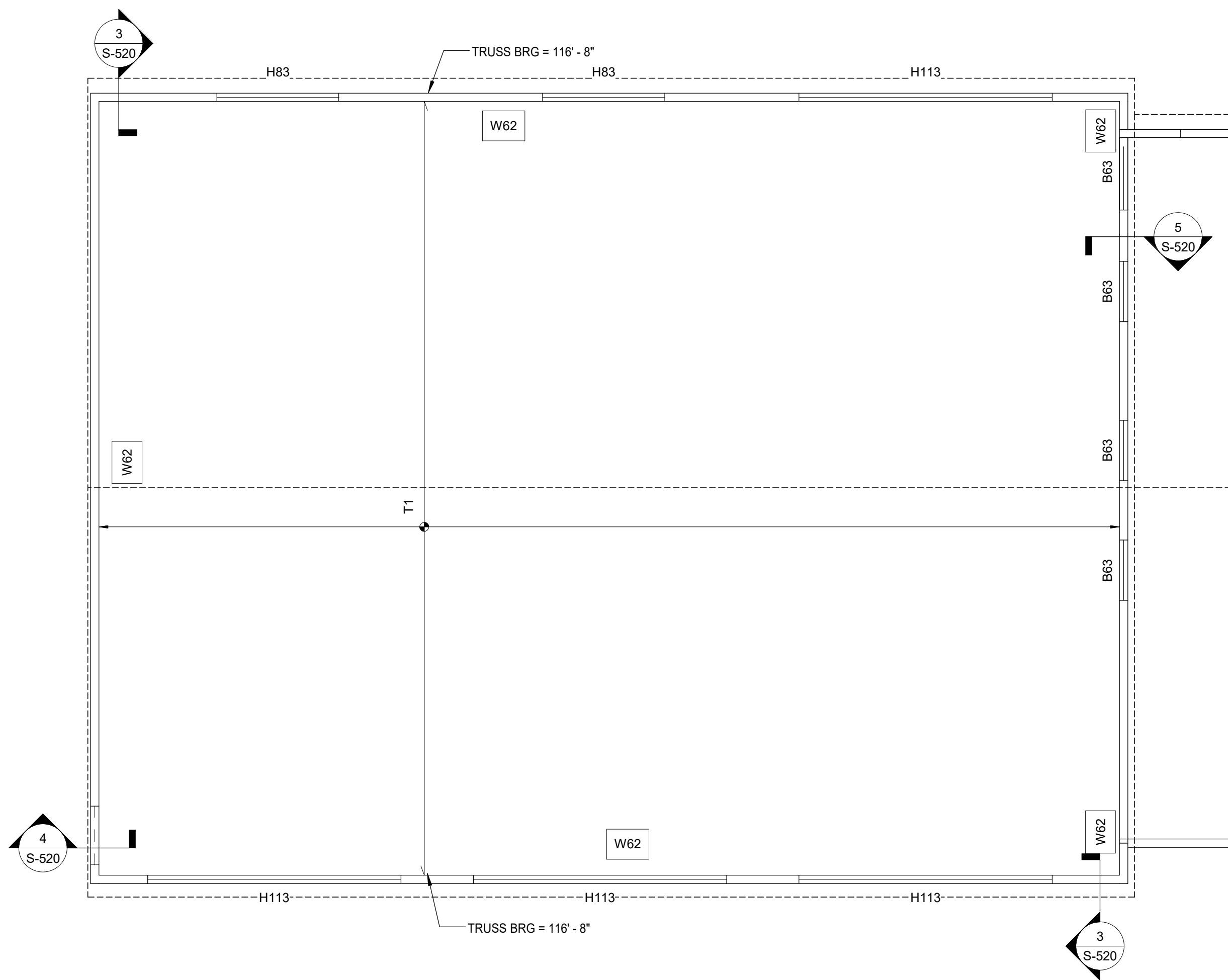
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SHEAR WALL PLAN

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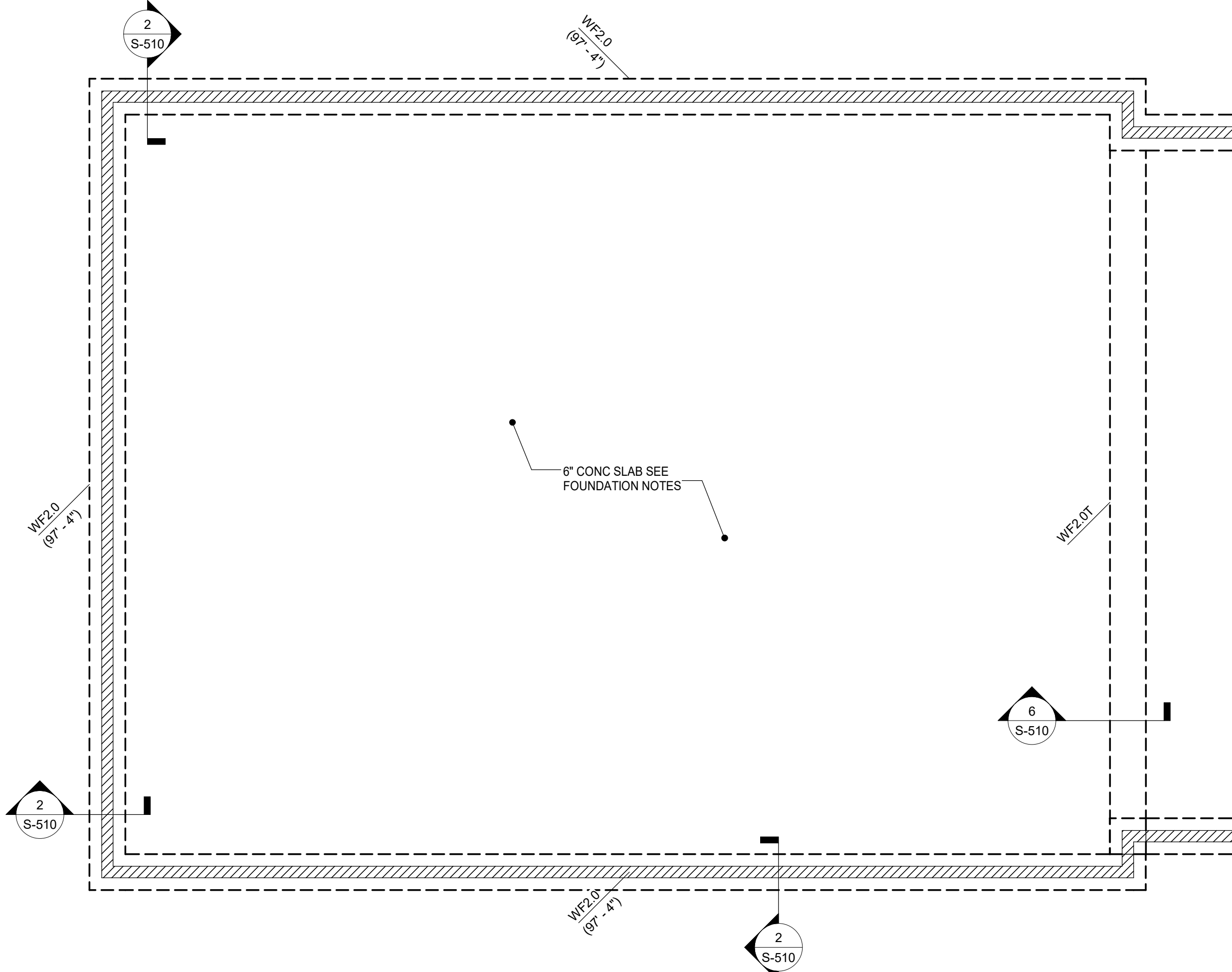
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2 ROOF FRAMING PLAN - ALTERNATE #3 GARAGE

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

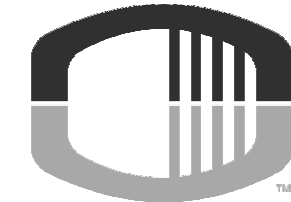
SEE S-102 FOR ROOF FRAMING NOTES AND SCHEDULES



1 FOUNDATIN PLAN - ALTERNATE #3 GARAGE

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

SEE S-101 FOR FOUNDATION NOTES AND SCHEDULES



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ALTERNATE FOUNDATION AND ROOF
FRAMING PLANS

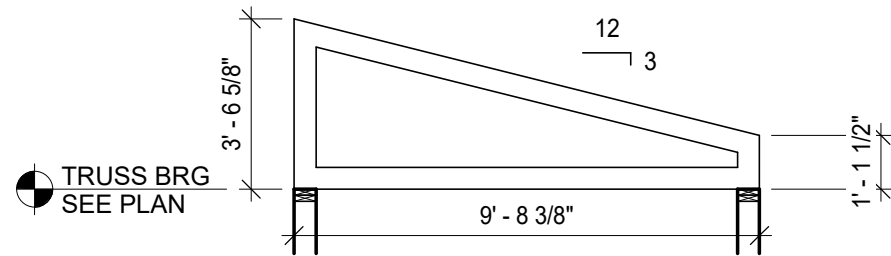
S-104

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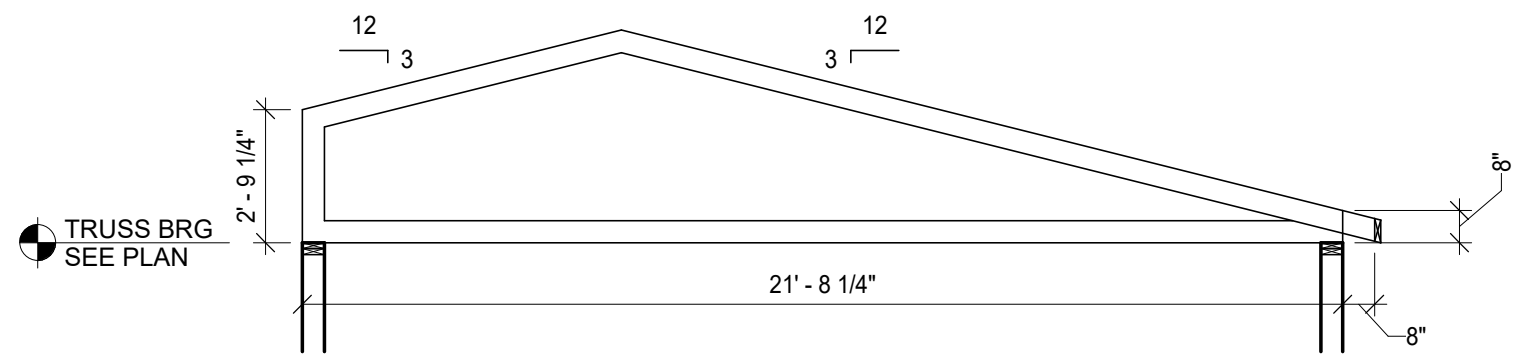
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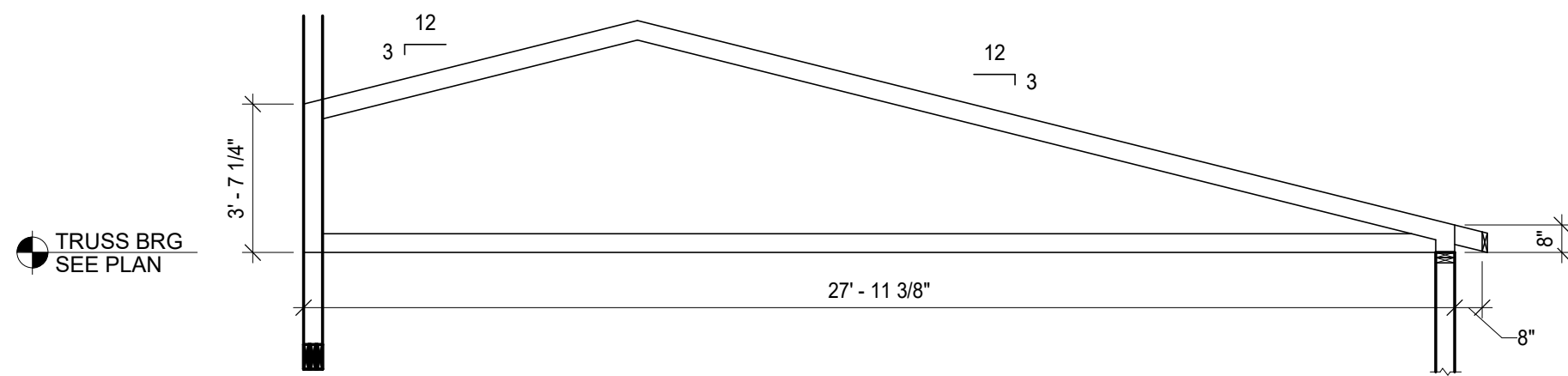
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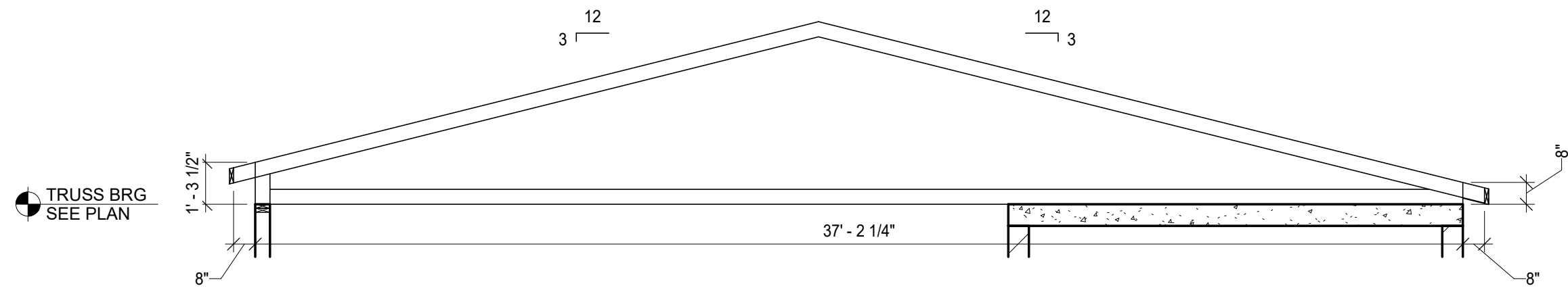
6 TRUSS PROFILE T6
SCALE: 1/4" = 1'-0"



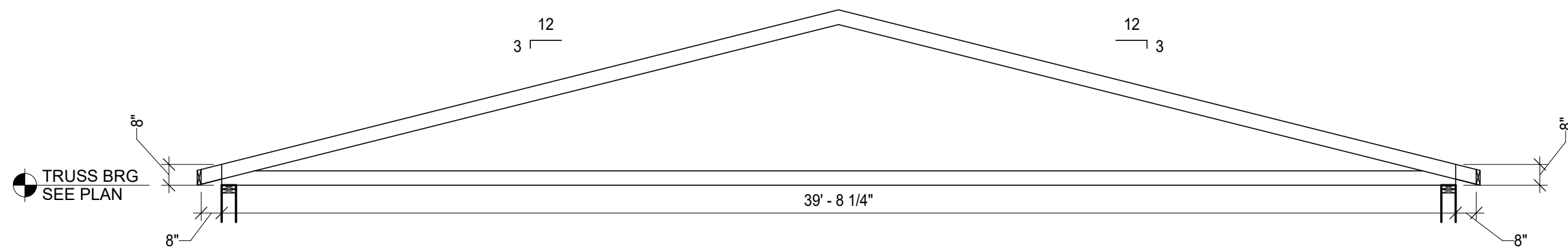
5 TRUSS PROFILE T5
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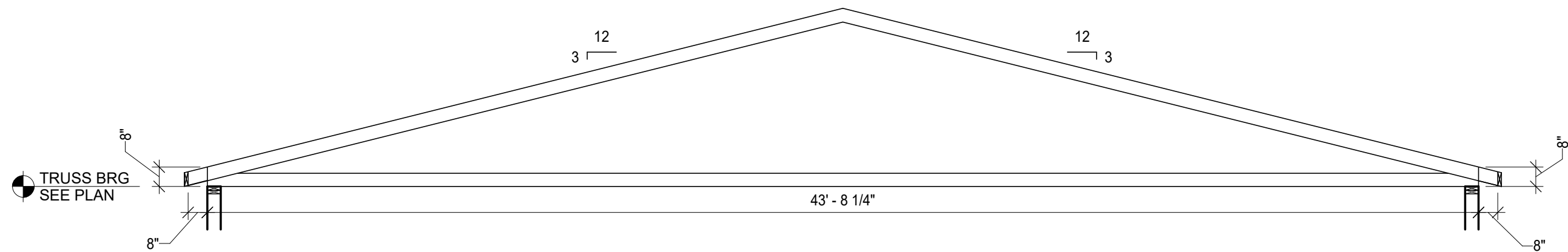
4 TRUSS PROFILE T4
SCALE: 1/4" = 1'-0"



3 TRUSS PROFILE T3
SCALE: 1/4" = 1'-0"



2 TRUSS PROFILE T2
SCALE: 1/4" = 1'-0"



1 TRUSS PROFILE T1
SCALE: 1/4" = 1'-0"



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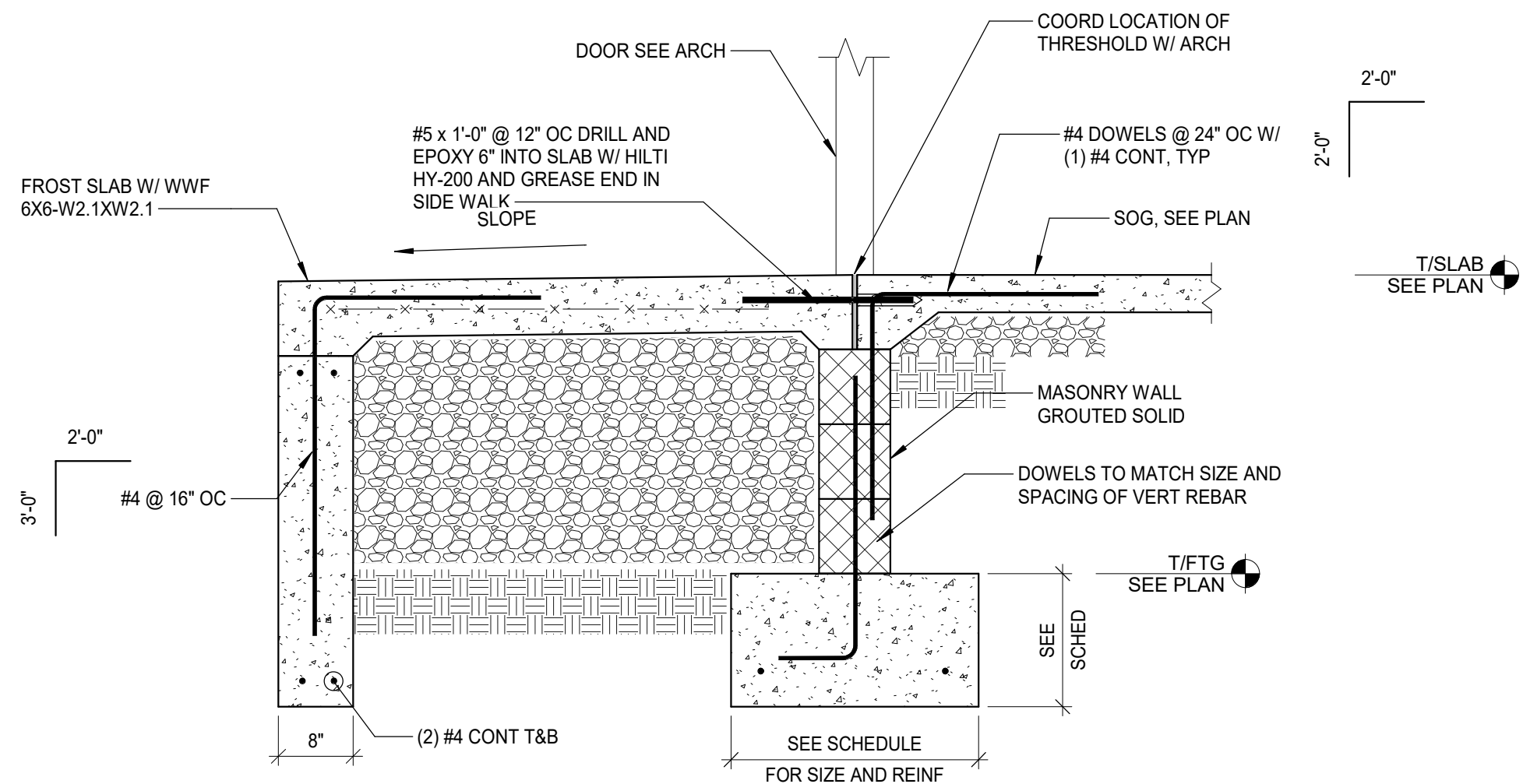
S-201
TRUSS PROFILES

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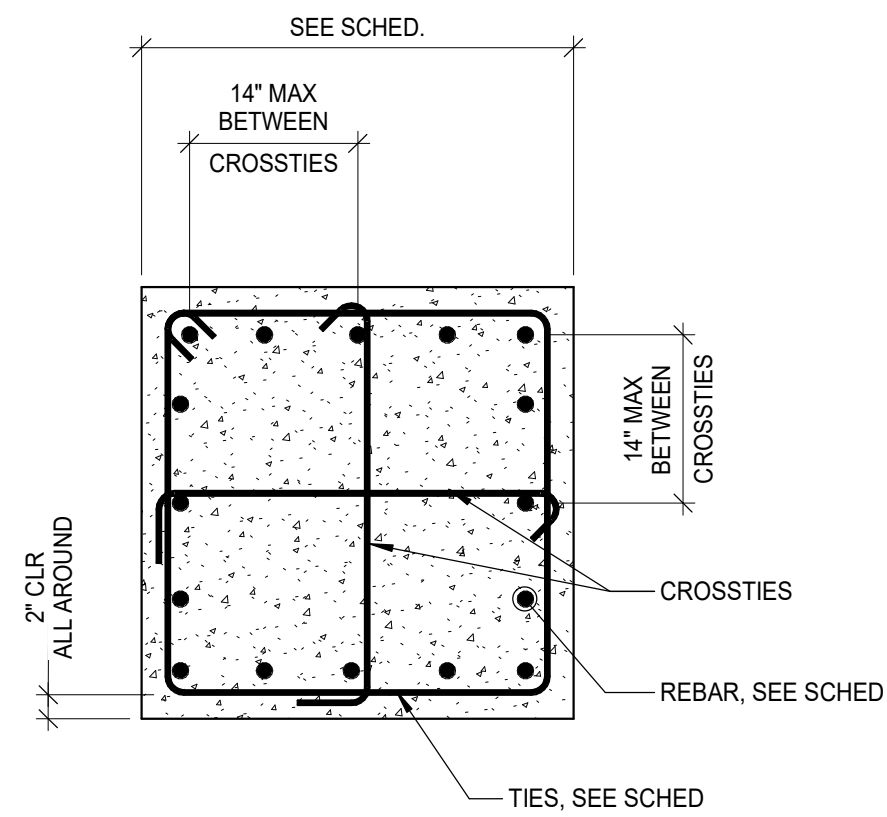
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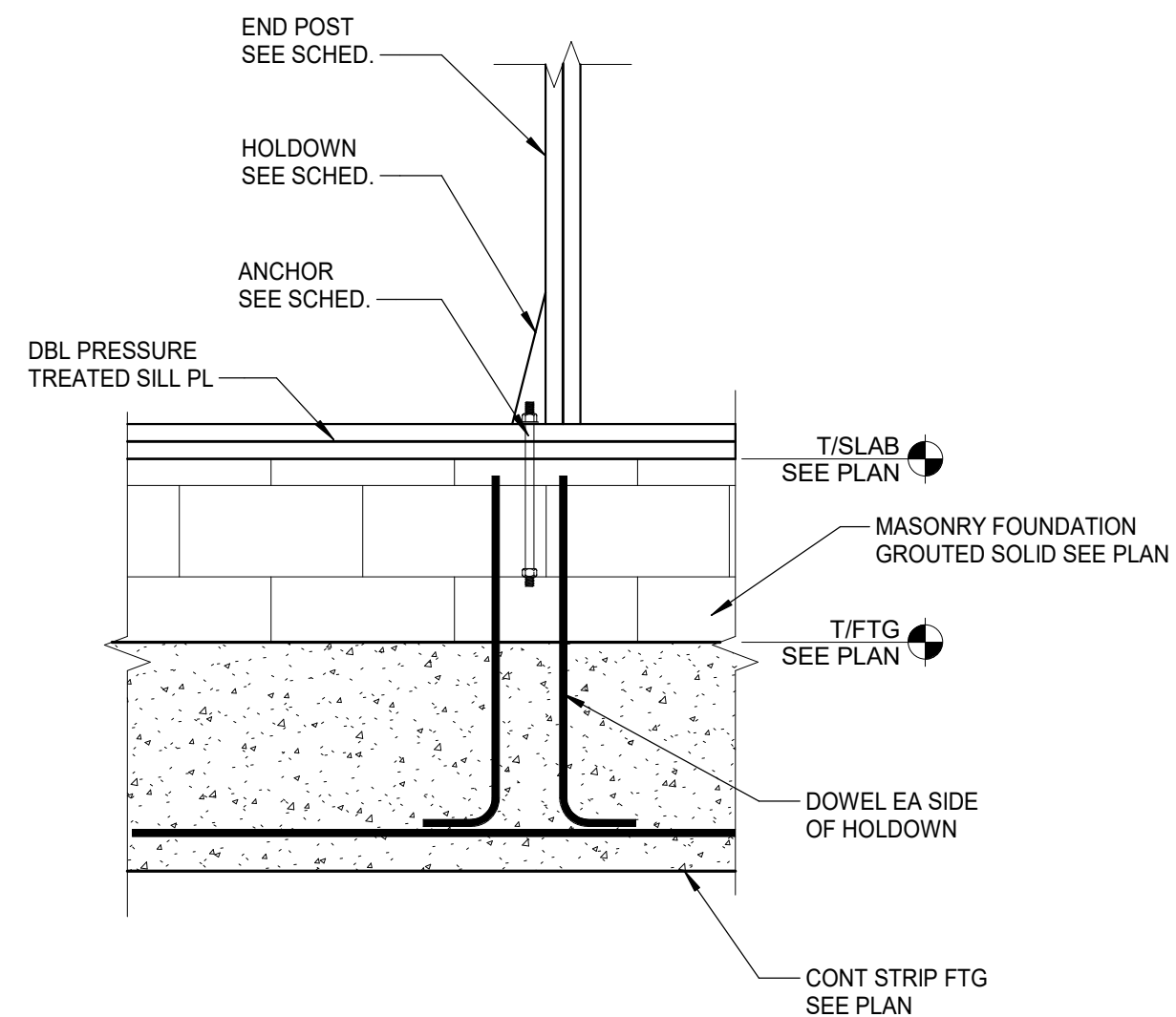


6 TYPICAL FROST SLAB
SCALE: 3/4" = 1'-0"

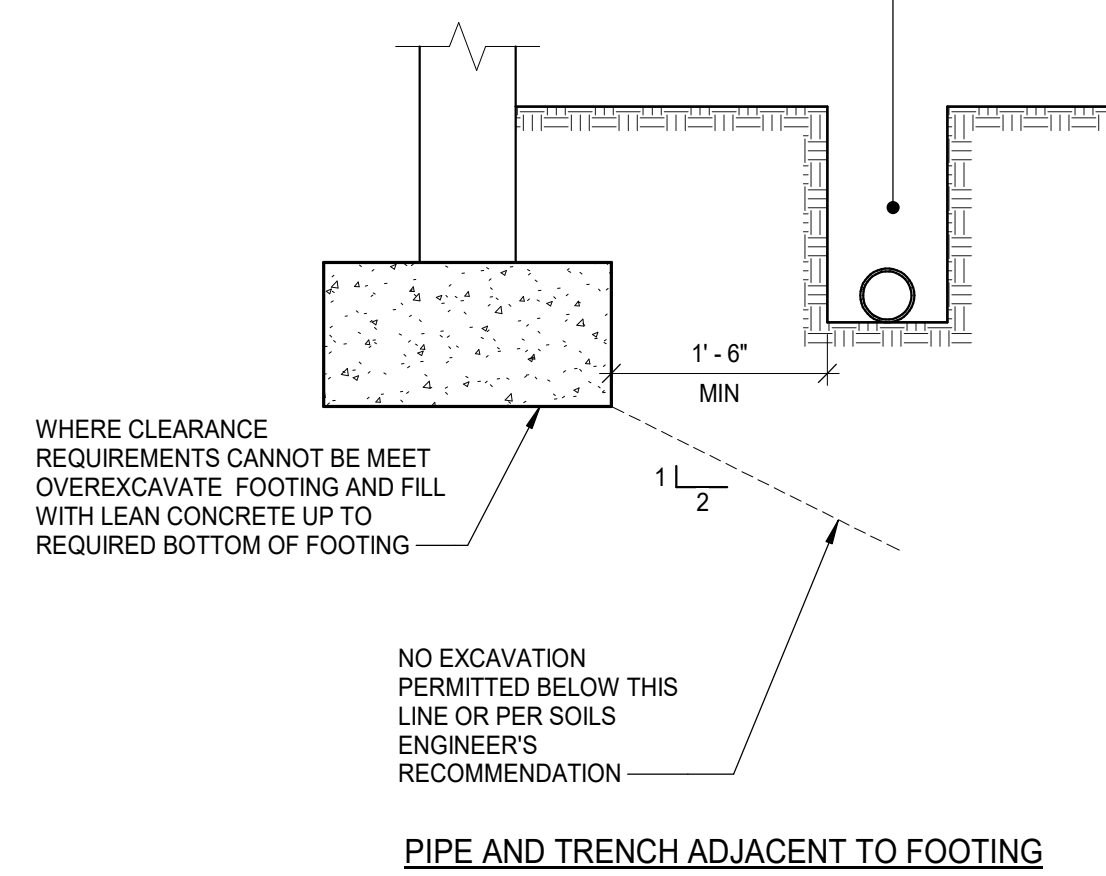


NOTES:
SEE GENERAL NOTES FOR EXPOSED COLUMN CHAMFER

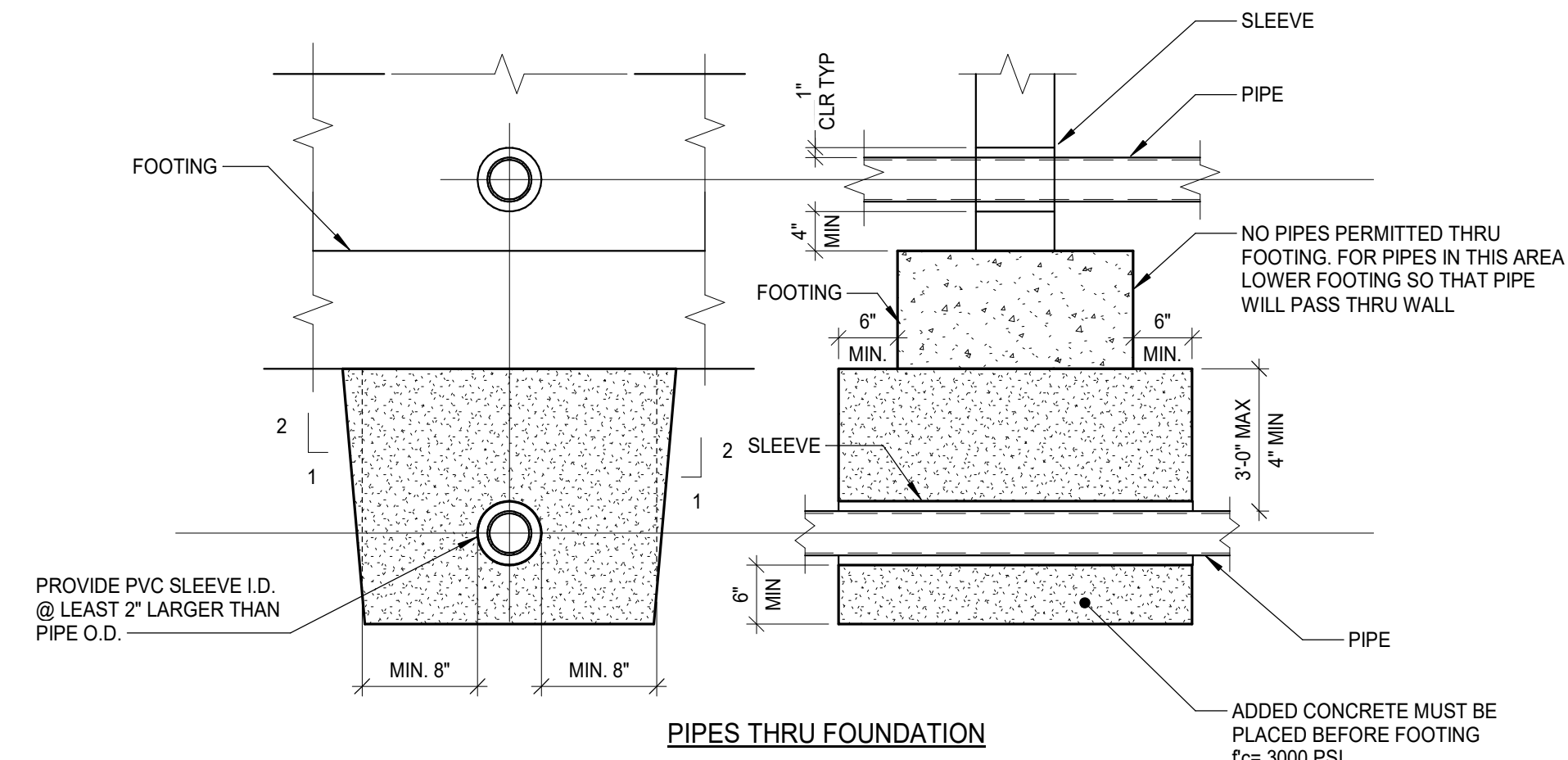
5 SQUARE COLUMN / PIER REBAR LAYOUT
SCALE: 3/4" = 1'-0"



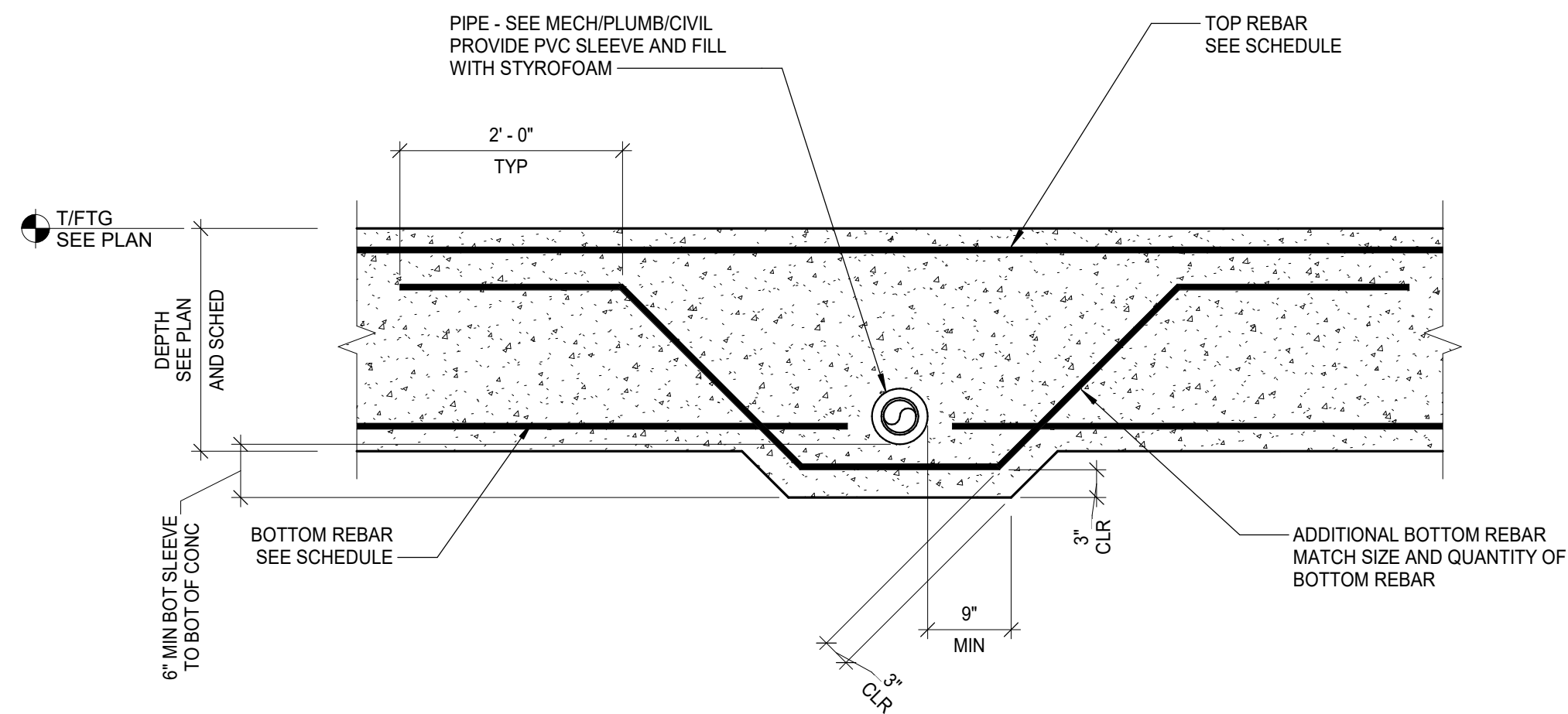
7 TYPICAL WOOD SHEAR WALL HOLDOWN
SCALE: 3/4" = 1'-0"



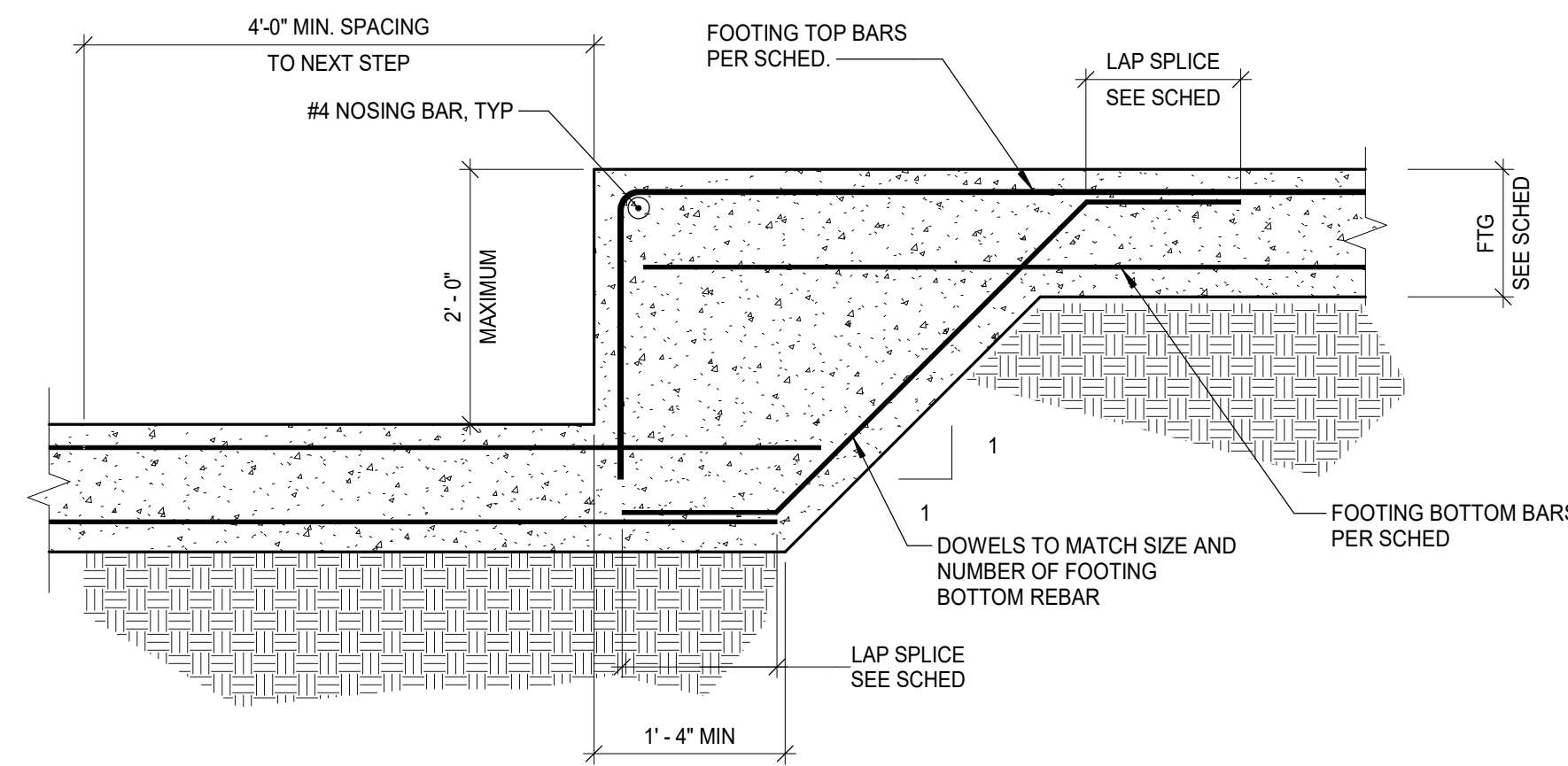
4 TYPICAL PIPE ADJACENT TO FOOTING
SCALE: 3/4" = 1'-0"



3 TYPICAL PIPE ABOVE OR BELOW FOOTING
SCALE: 3/4" = 1'-0"



2 TYPICAL PIPE PENETRATION THROUGH FOOTING
SCALE: 3/4" = 1'-0"



1 TYPICAL FOOTING STEP DETAIL
SCALE: 3/4" = 1'-0"



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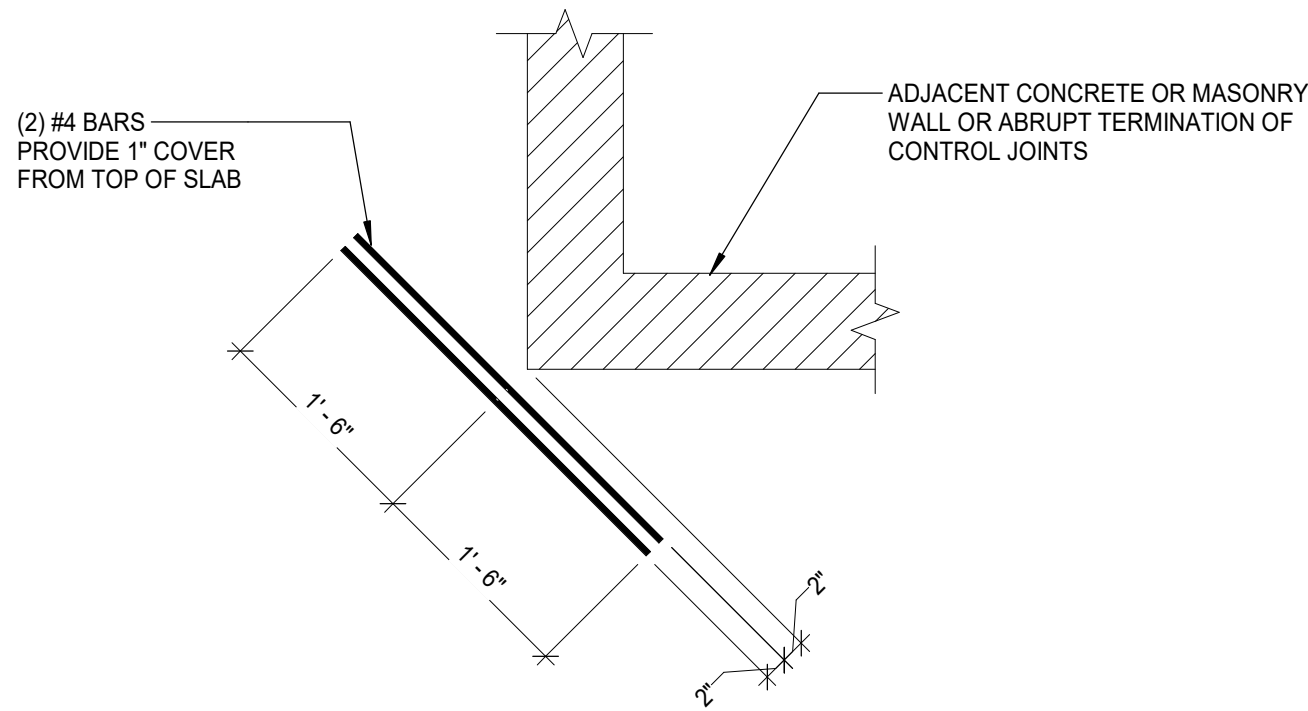
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S-310
TYPICAL FOUNDATION DETAILS

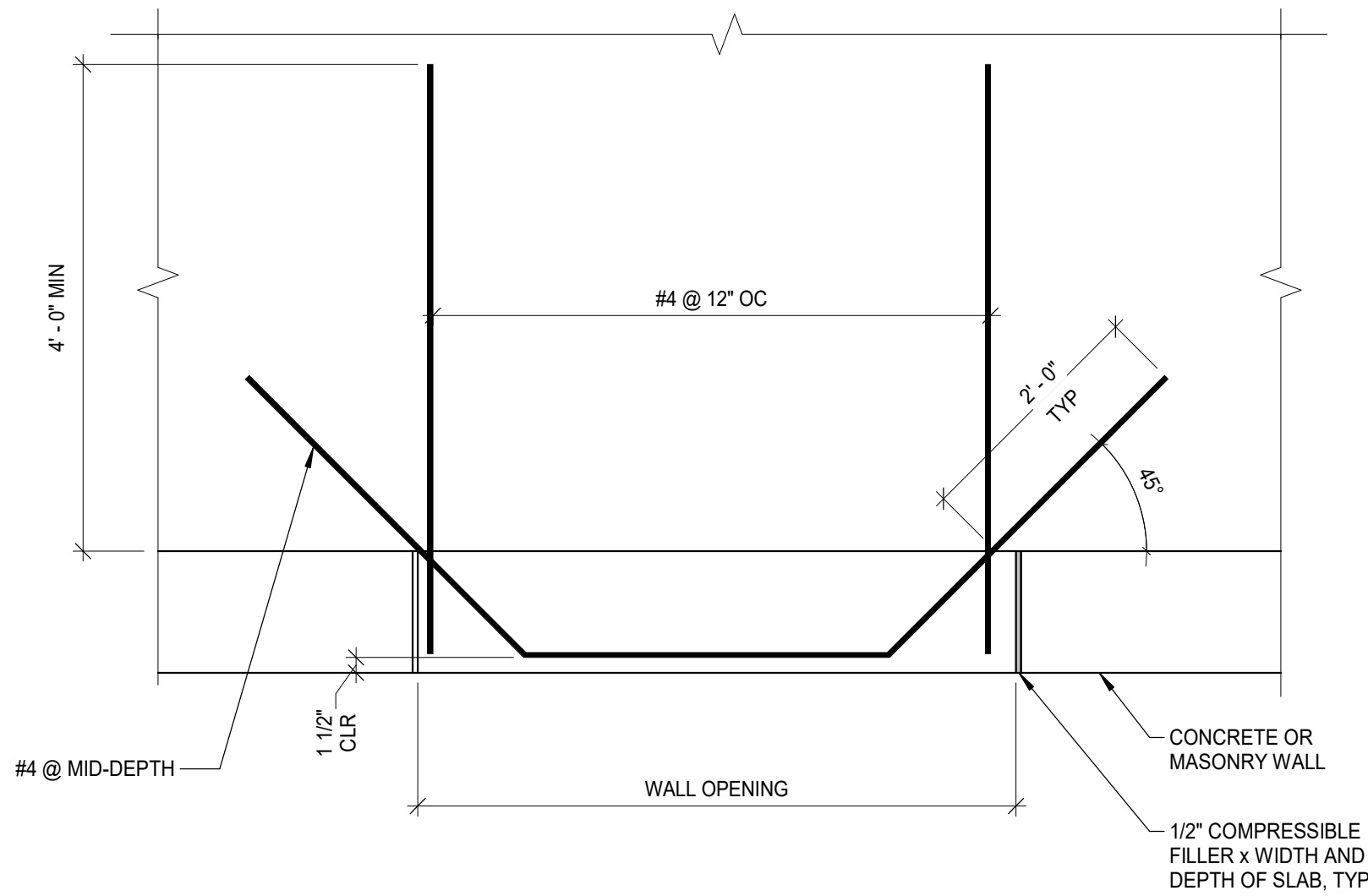
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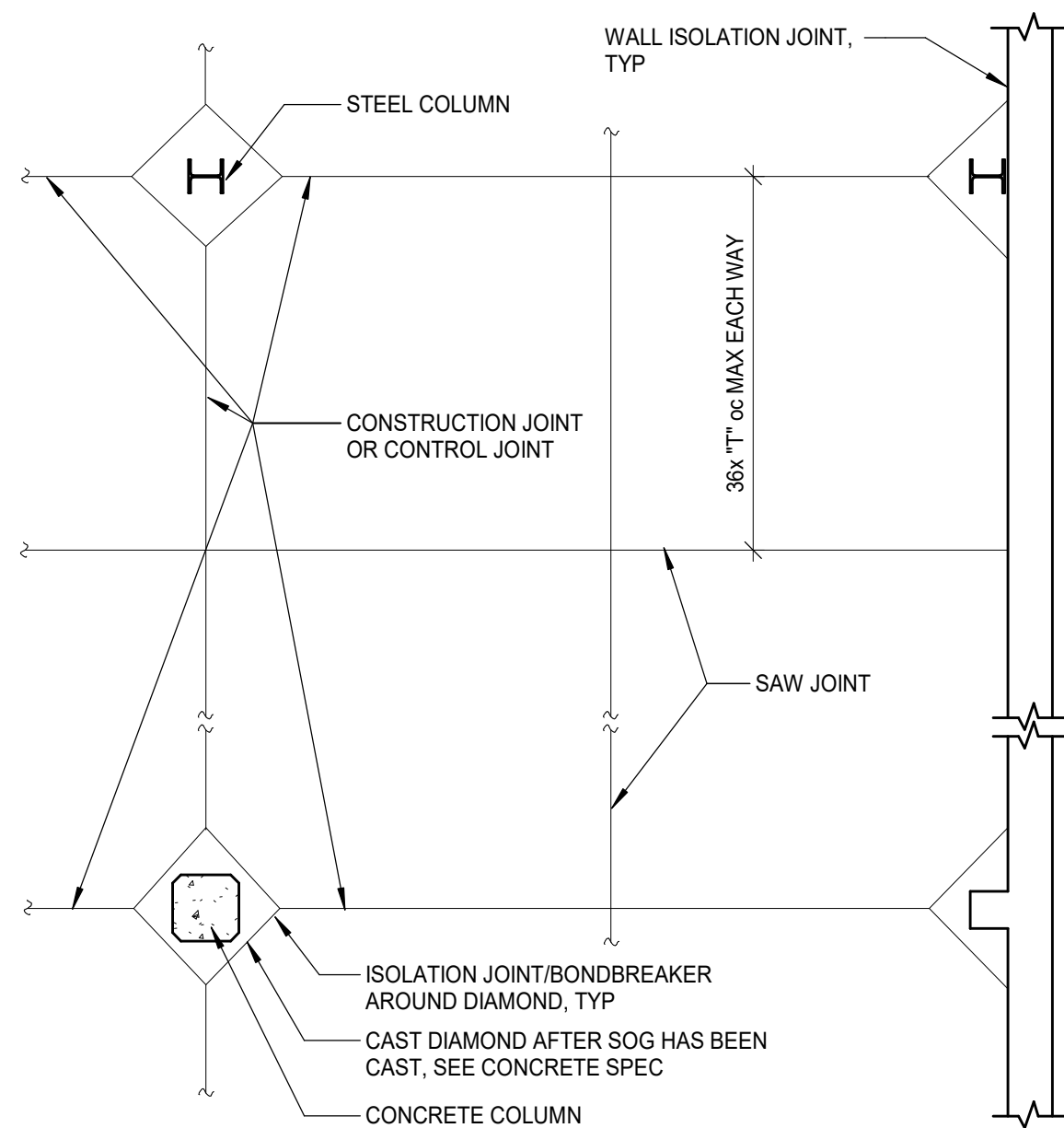
XXXX - LIFE FIRST AMBULANCE STATION



6 TYPICAL SLAB RE-ENTRANT BARS
SCALE: 3/4" = 1'-0"

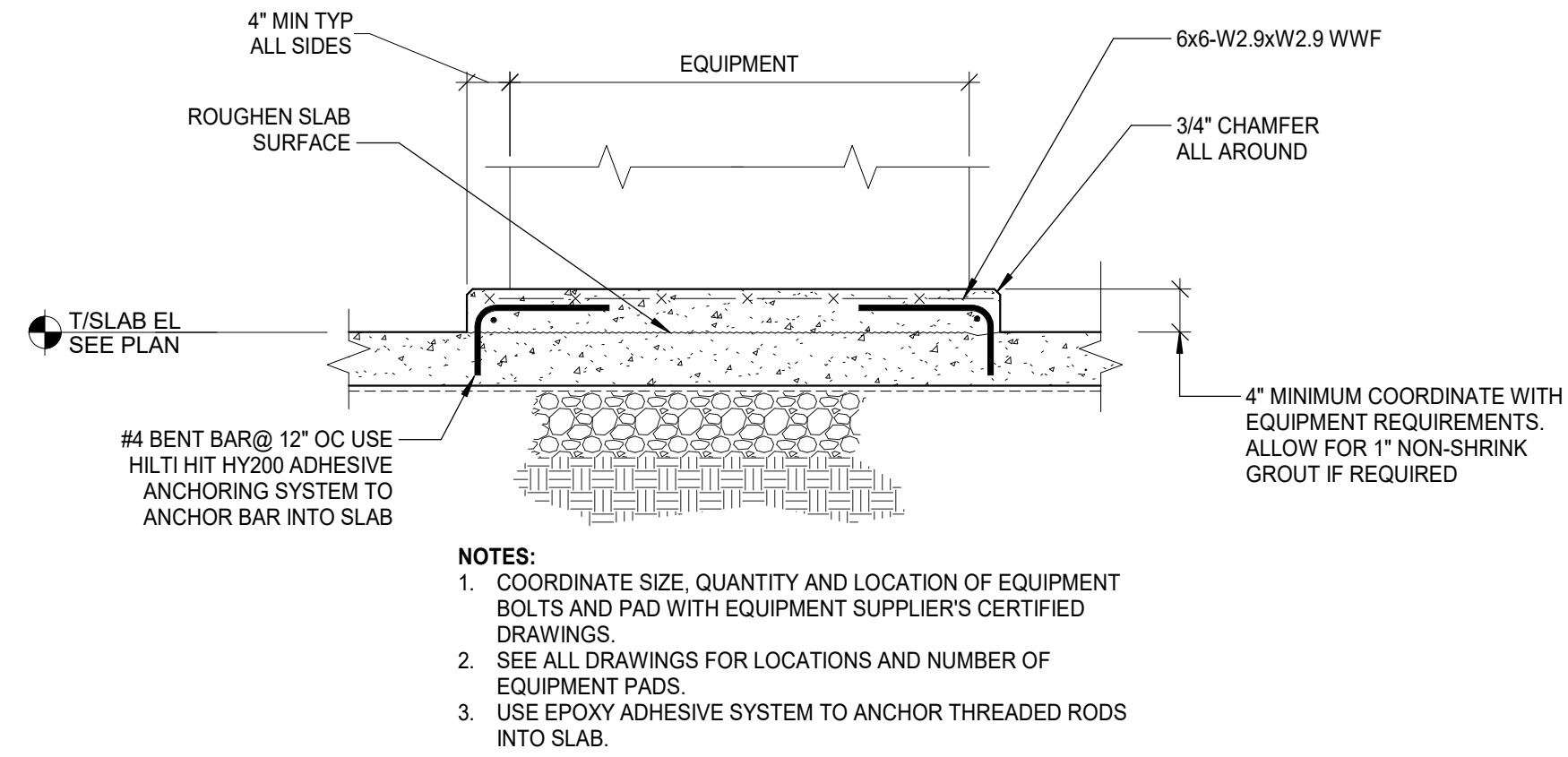


5 TYPICAL SLAB ON GRADE REINF AT DOOR OPENING
SCALE: 3/4" = 1'-0"



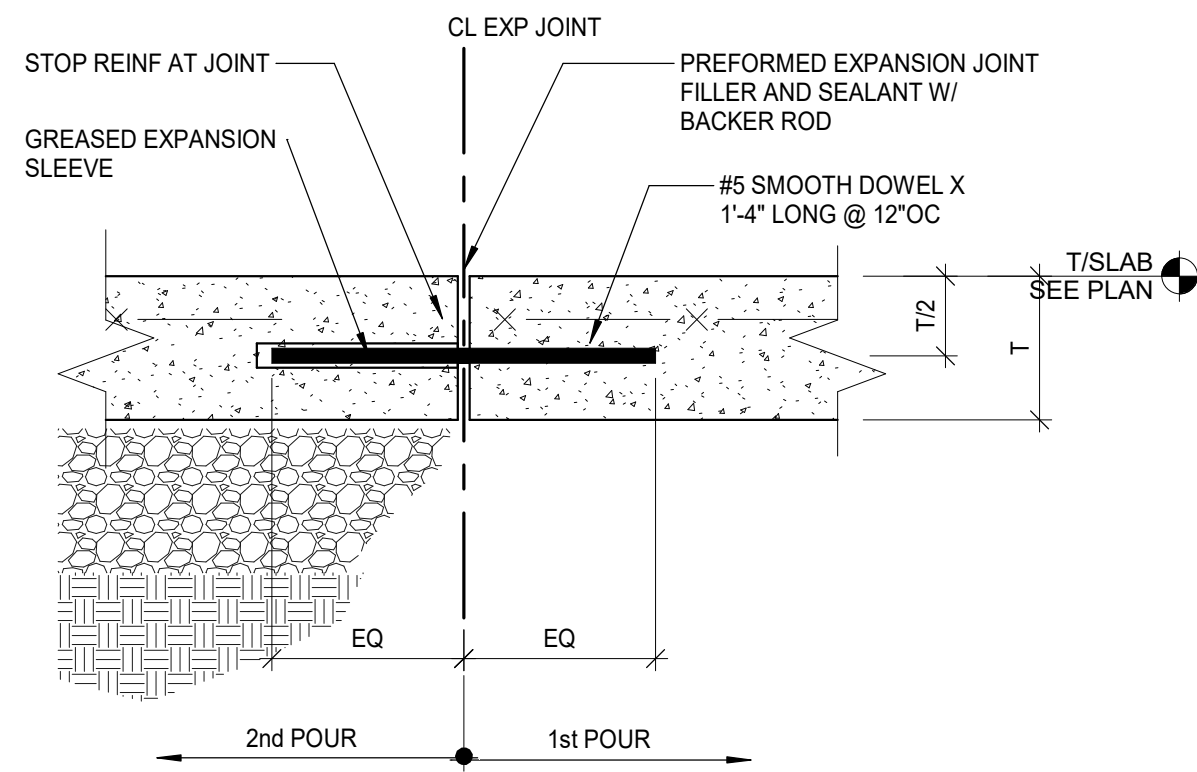
- NOTE:**
1. USE THIS DETAIL IN CONJUNCTION WITH SAWCUT JOINTS LOCATED ON PLAN.
 2. IN HALLWAYS CONTROL JOINTS SHALL BE LOCATED A MAXIMUM OF 1 1/2' X (WIDTH) OF HALLWAY OR 12'-0\"/>

4 TYPICAL SLAB ON GRADE CONTROL JOINT PATTERN
SCALE: 3/8" = 1'-0"

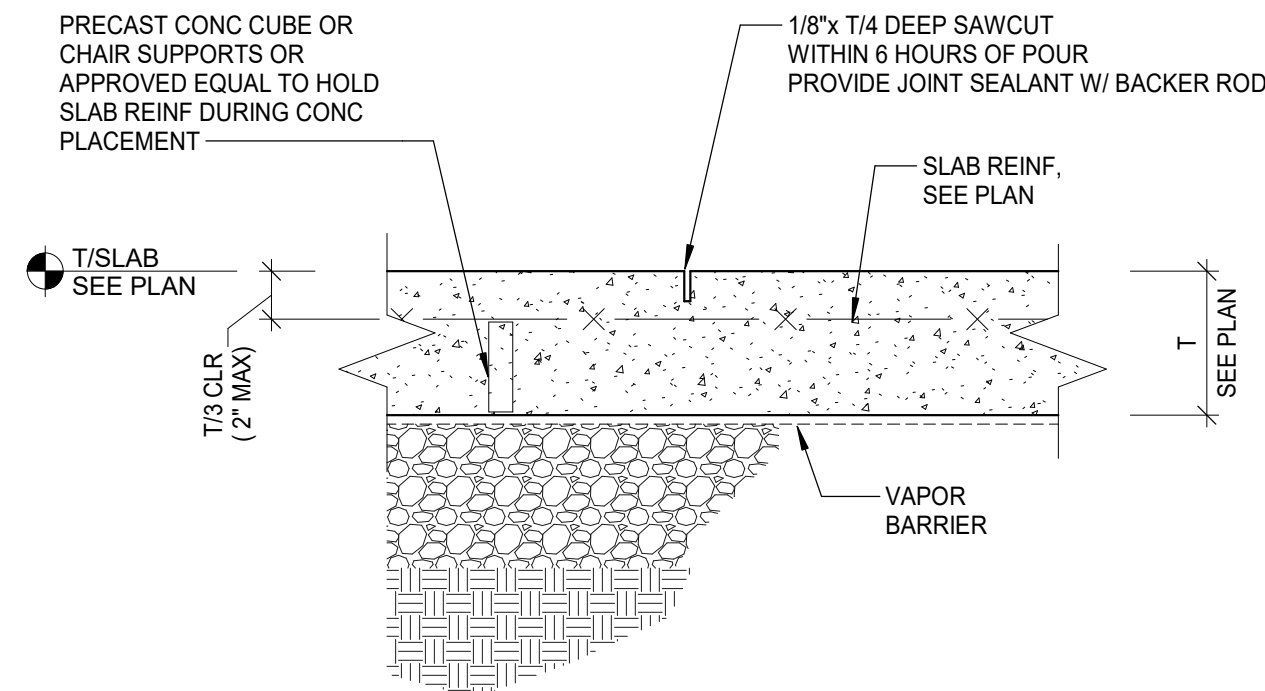


- NOTES:**
1. COORDINATE SIZE, QUANTITY AND LOCATION OF EQUIPMENT BOLTS AND PAD WITH EQUIPMENT SUPPLIER'S CERTIFIED DRAWINGS.
 2. SEE ALL DRAWINGS FOR LOCATIONS AND NUMBER OF EQUIPMENT PADS.
 3. USE EPOXY ADHESIVE SYSTEM TO ANCHOR THREADED RODS INTO SLAB.

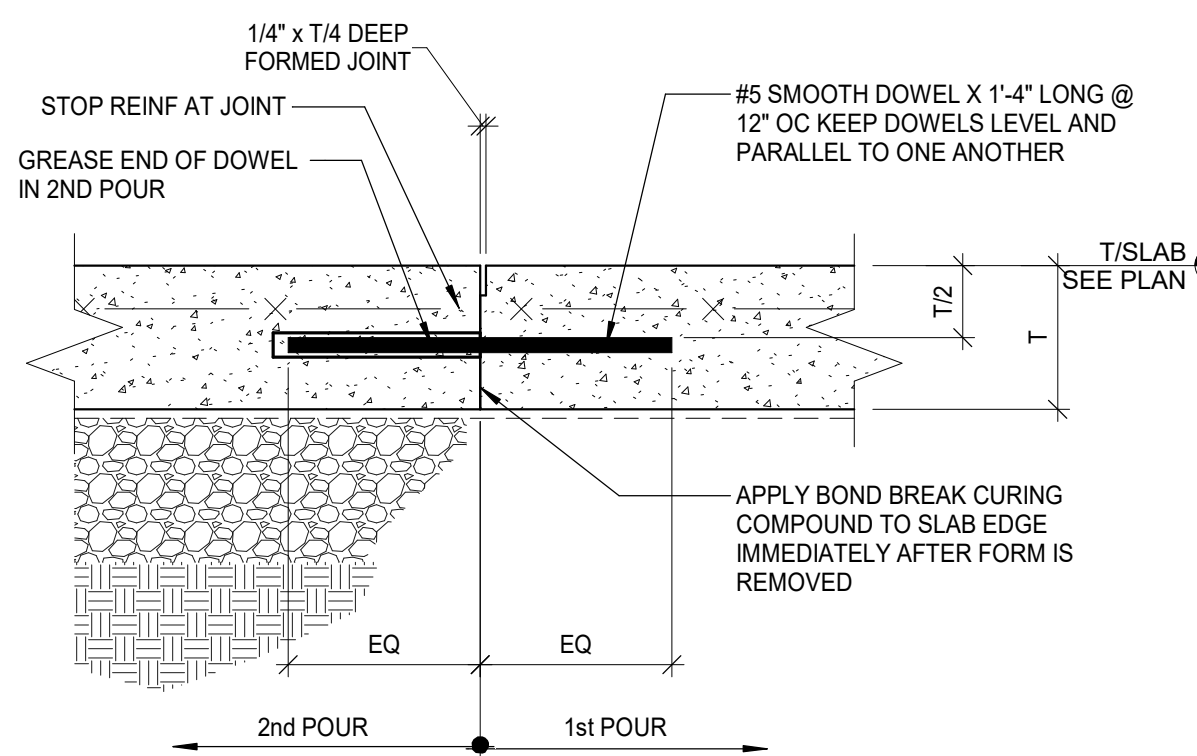
3 TYPICAL HOUSE KEEPING PAD
SCALE: 3/4" = 1'-0"



2 TYPICAL SLAB ON GRADE EXPANSION JOINT
SCALE: 1 1/2" = 1'-0"



CONTROL JOINT



CONSTRUCTION JOINT

1 SLAB ON GRADE CONTROL AND CONSTRUCTION JOINT
SCALE: 1 1/2" = 1'-0"



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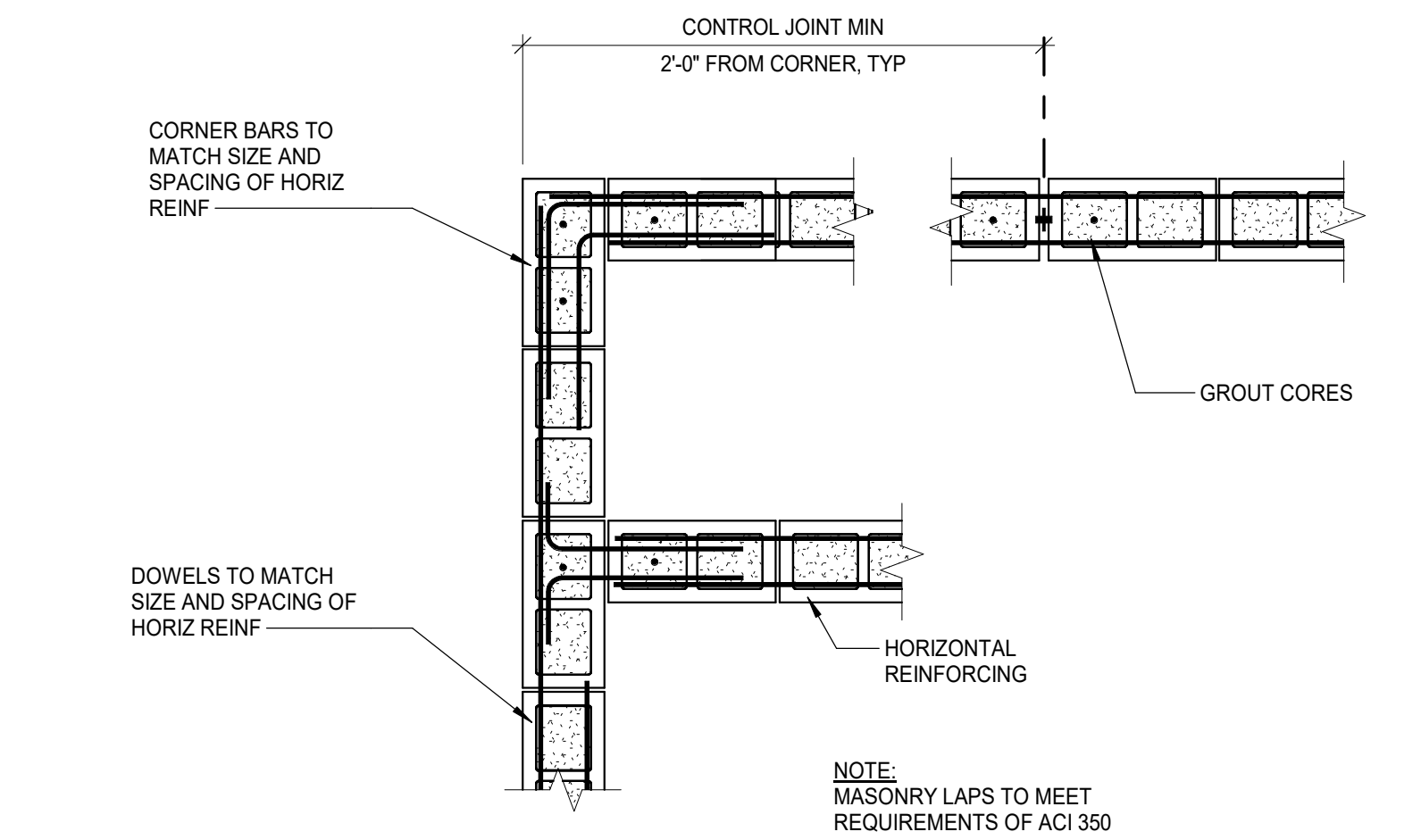
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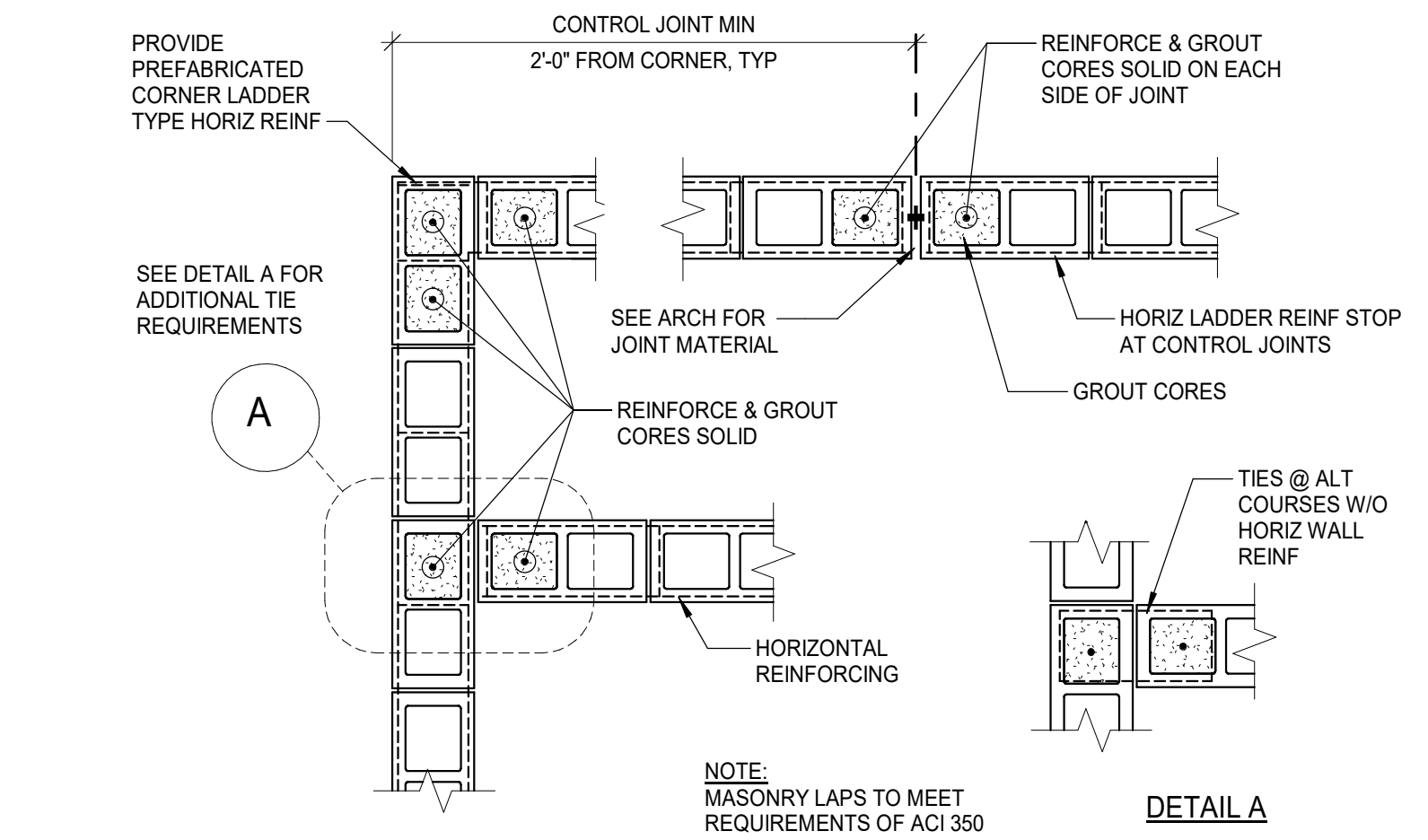
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S-320
TYPICAL CONCRETE DETAILS

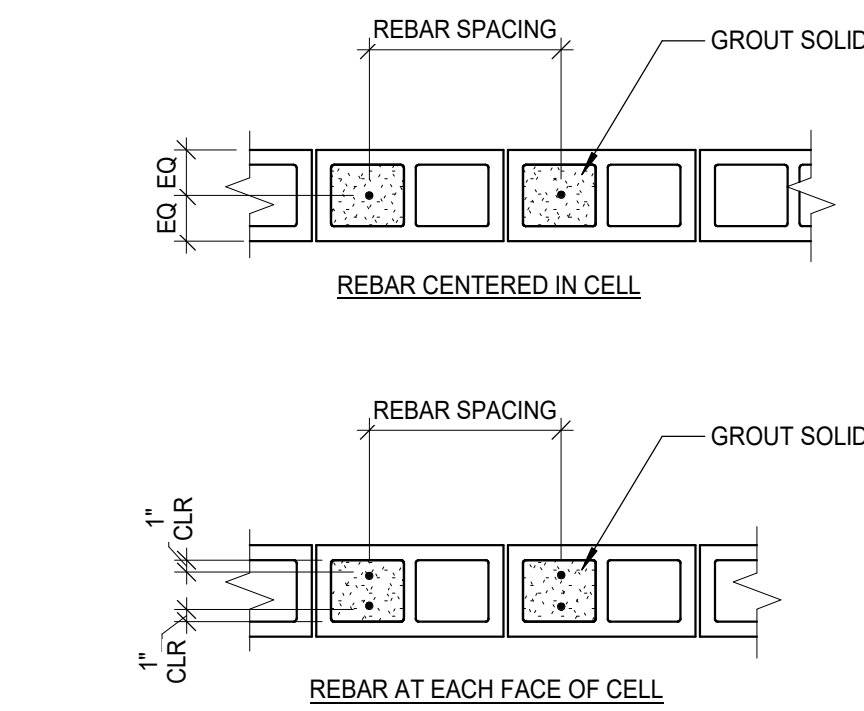
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6 TYPICAL CORNER / INTERSECTION HORIZONTAL REBARS
SCALE: 3/4" = 1'-0"

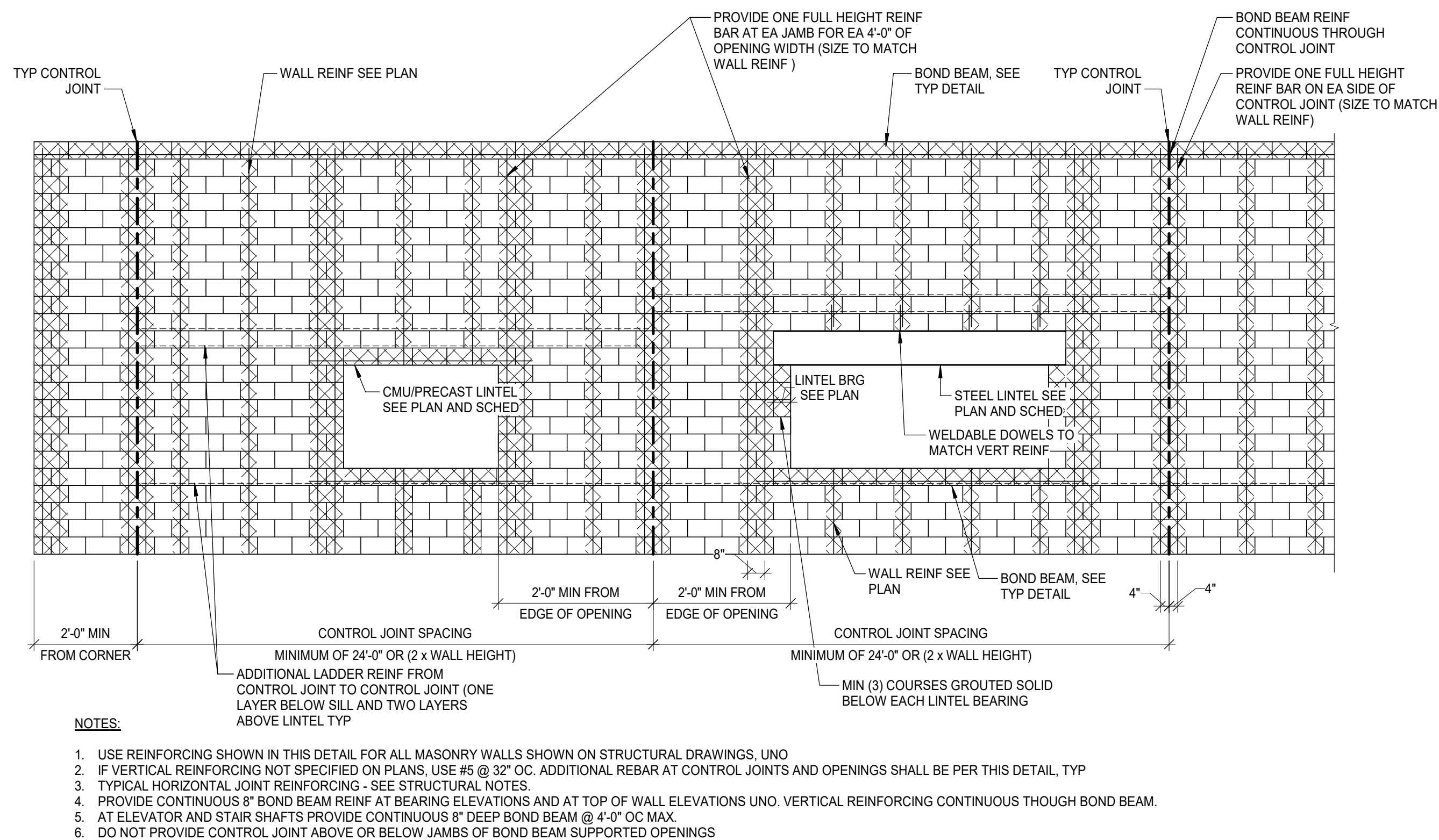


5 TYPICAL CORNER / INTERSECTION VERTICAL REBARS
SCALE: 3/4" = 1'-0"



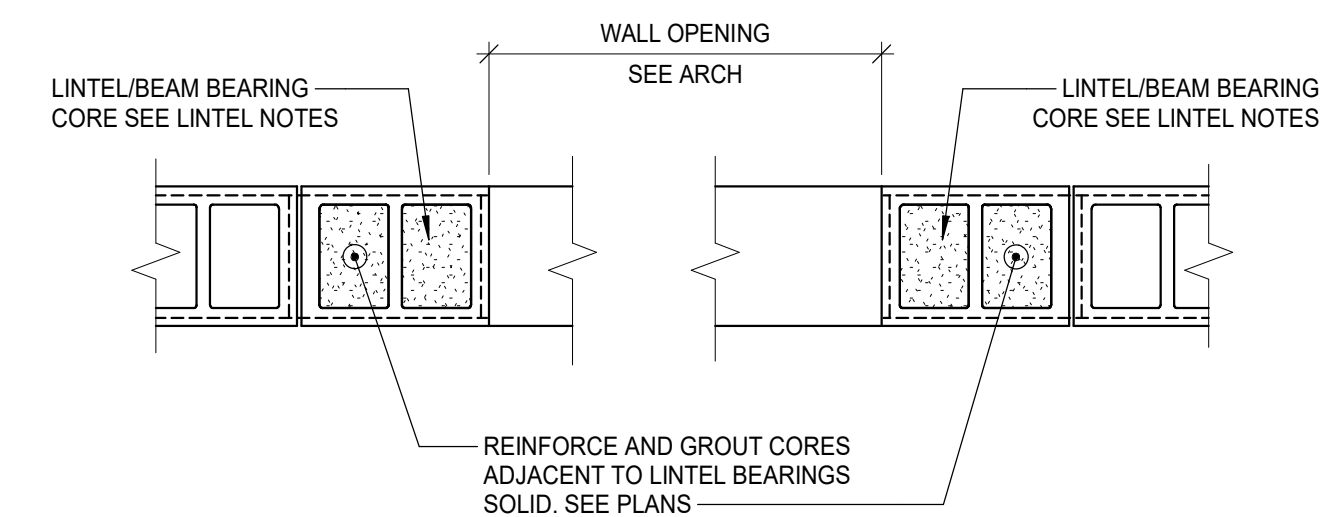
NOTE:
1. USE SPACERS TO HOLD REBAR IN POSITION WHILE GROUTING, TYP

3 TYPICAL REBAR IN CELL
SCALE: 3/4" = 1'-0"



NOTES:
1. USE REINFORCING SHOWN IN THIS DETAIL FOR ALL MASONRY WALLS SHOWN ON STRUCTURAL DRAWINGS, UNO
2. IF VERTICAL REINFORCING NOT SPECIFIED ON PLANS, USE #5 @ 32" OC. ADDITIONAL REBAR AT CONTROL JOINTS AND OPENINGS SHALL BE PER THIS DETAIL, TYP
3. TYPICAL HORIZONTAL JOINT REINFORCING - SEE STRUCTURAL NOTES
4. PROVIDE CONTINUOUS 8" BOND BEAM REINF AT BEARING ELEVATIONS AND AT TOP OF WALL ELEVATIONS UNO. VERTICAL REINFORCING CONTINUOUS THOUGH BOND BEAM.
5. AT ELEVATOR AND STAIR SHAFTS PROVIDE CONTINUOUS 8" DEEP BOND BEAM @ 4'-0" OC MAX.
6. DO NOT PROVIDE CONTROL JOINT ABOVE OR BELOW JAMBS OF BOND BEAM SUPPORTED OPENINGS

1 TYPICAL REBAR LAYOUT
SCALE: 1/4" = 1'-0"



4 TYPICAL REBAR IN JAMBS
SCALE: 3/4" = 1'-0"

PER LAP LENGTHS INDICATED ON GENERAL NOTES. ALTERNATE: SPLICE VERTICAL BARS WITH MECHANICAL COUPLERS TO DEVELOP 125% OF ASTM SPECIFIED TENSILE STRENGTH. (LAP WITH FOOTING DOWELS) SEE GENERAL NOTES FOR LAP LENGTHS

CELLS WITH REINFORCING SHALL BE FILLED WITH GROUT. VERT CELL SHOULD PROVIDE A CONTINUOUS CAVITY, FREE OF MORTAR DROPPINGS AND AT LEAST 2"x3" IN SIZE.

REINFORCING CENTERED IN BLOCK CAVITY (UNO)

HORIZONTAL AND VERTICAL REINFORCING

HOLD IN POSITION AT INTERVALS OF 192 DIAMETERS (MAX.) WITH REBAR POSITIONERS

WALL FOOTING (SEE PLANS AND SCHEDULE)

NOTES:
1. REBAR SHALL PLACED IN SAME VERTICALLY ALIGNED CELL FOR FULL HEIGHT OF WALL. SHIFTING OF REBAR TO ADJACENT CELL IN CONSECUTIVE LIFT NOT ACCEPTABLE
2. LOW LIFT-GROUTING TECHNIQUE, GROUT IS PLACED IN 4'-0" LIFTS MAX.
3. PROVIDE DOWELS INTO FOUNDATIONS TO MATCH VERTICAL REINFORCEMENT.

2 TYPICAL REBAR LAYOUT
SCALE: 3/4" = 1'-0"



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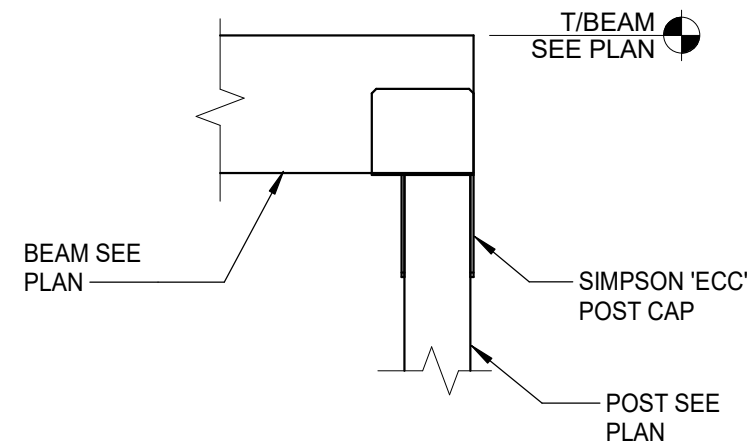
S-330
TYPICAL MASONRY DETAILS

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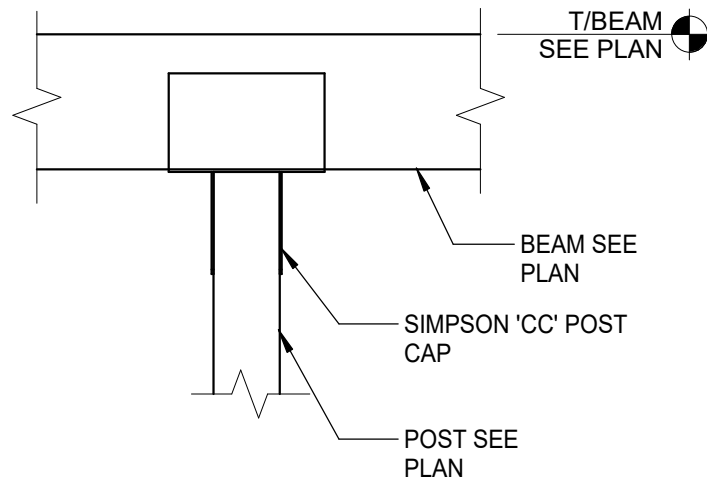
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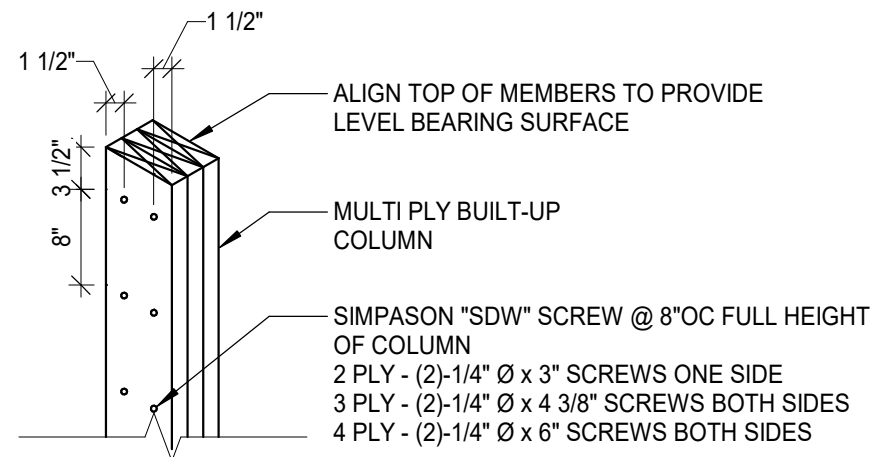
13 TYPICAL END POST CAP CONN

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



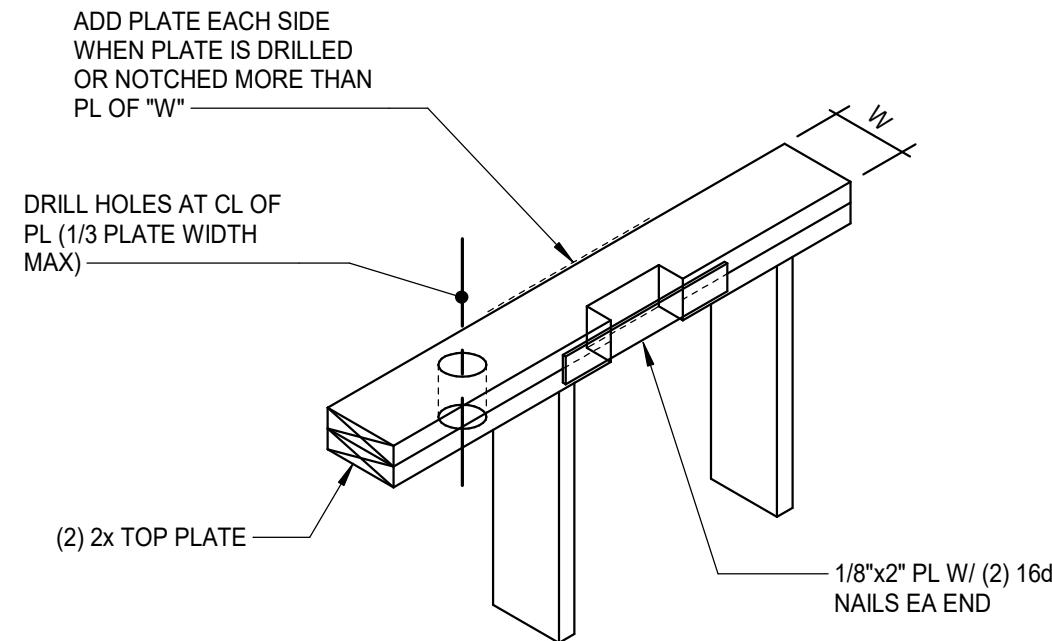
9 TYPICAL INTERIOR POST CAP CONN

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



4 TYPICAL BUILT UP COLUMN

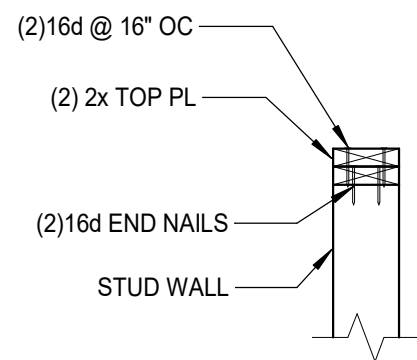
SCALE: 3/4" = 1'-0"



NOTE:
1. THIS DETAIL IS NOT TO BE USED IN SHEAR OR BEARING WALL WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER

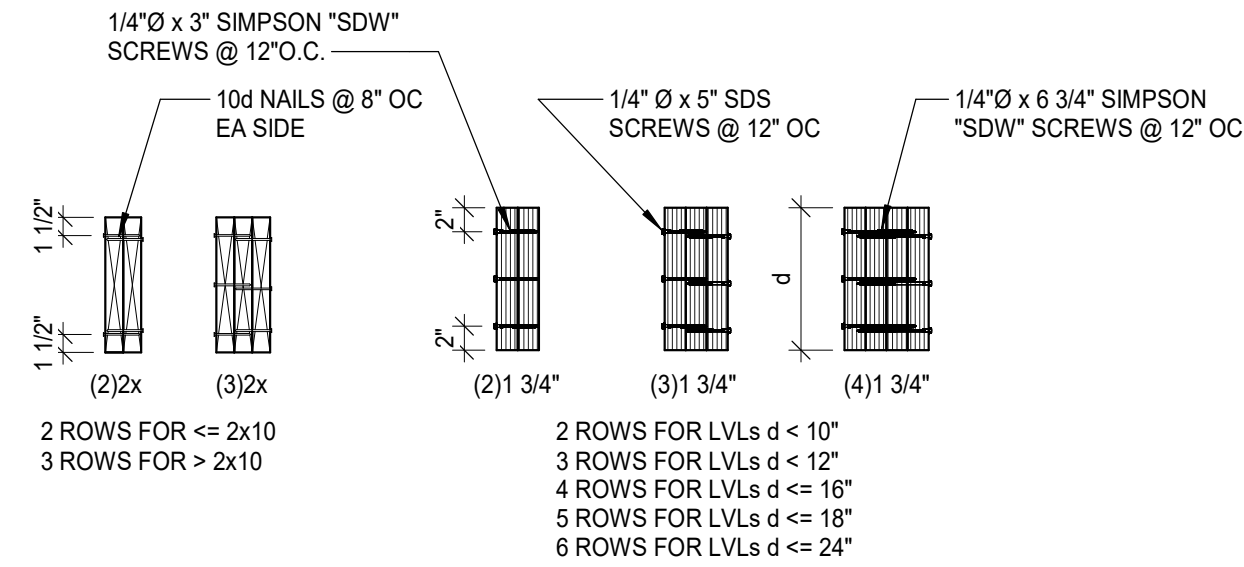
12 TYPICAL TOP PLATE NOTCH

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



8 TYPICAL TOP PL CONN

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



TYPICAL MULTIPLE WOOD MEMBER CONNECTION REQUIREMENT

3 TYPICAL MULTI-PLY HEADER

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

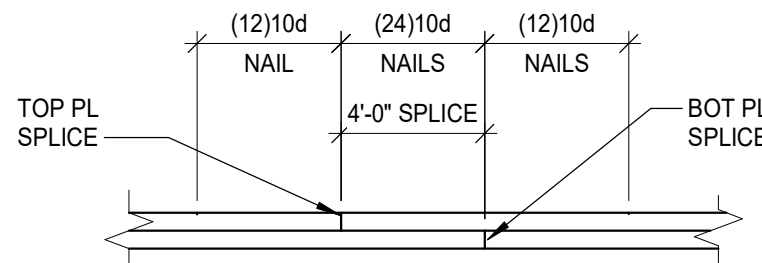
NOTCH/BORE % OF STUD	NON-BEARING STUDS			EXTERIOR & BEARING STUDS		
	2x4	2x6	2x8	25% MAX STUD WIDTH NOTCH	40% MAX STUD WIDTH BORE	60% MAX STUD WIDTH BORE
25%	7/8"	1 3/8"	1 3/4"			
40%	1 3/8"	2 1/8"	2 7/8"			
60%	2"	3 1/4"	4 3/8"			

NOTES:
1. THIS DETAIL IS NOT TO BE USED IN SHEAR OR BEARING WALL WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER

2. NOTCH & BEARING NOT TO OCCUR IN SAME STUD

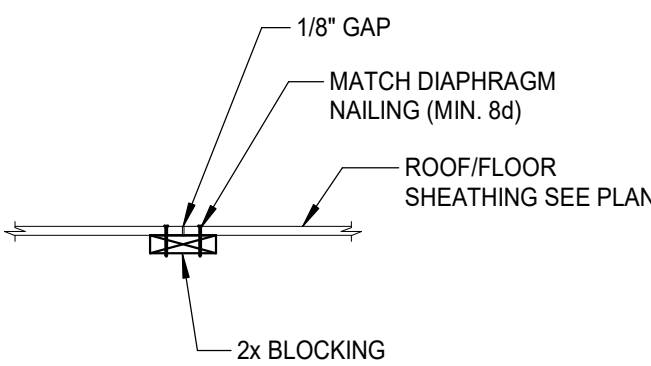
11 TYPICAL STUD NOTCH

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



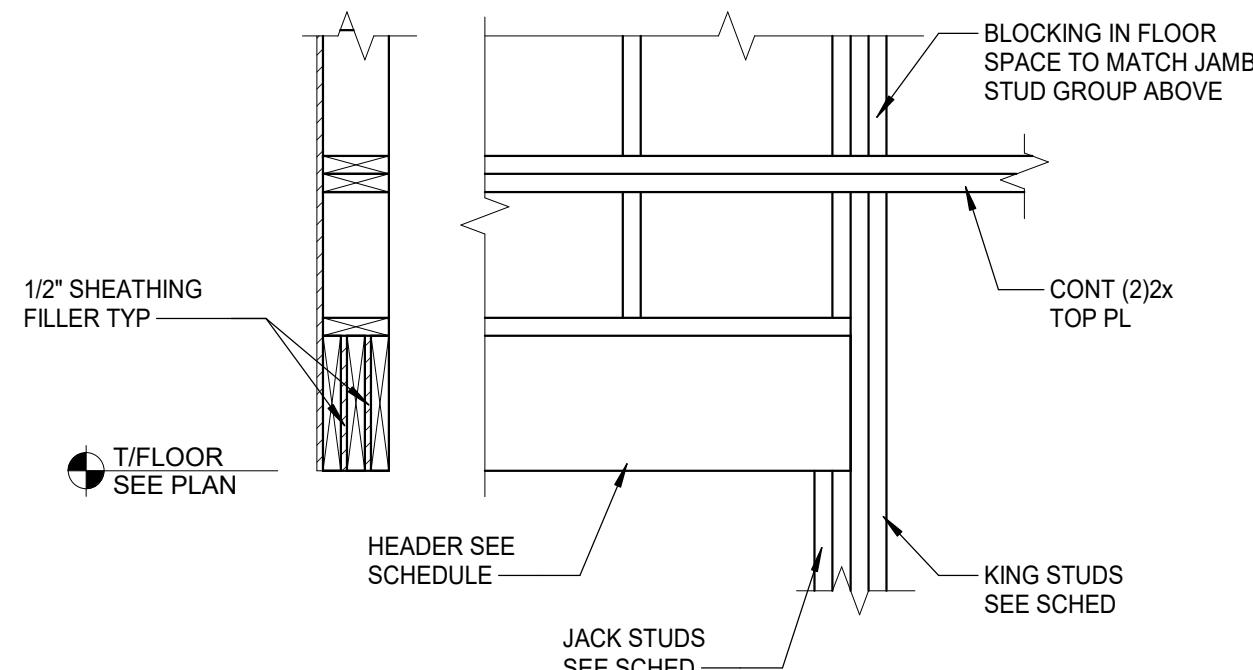
7 TYPICAL CHORD SPLICE

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



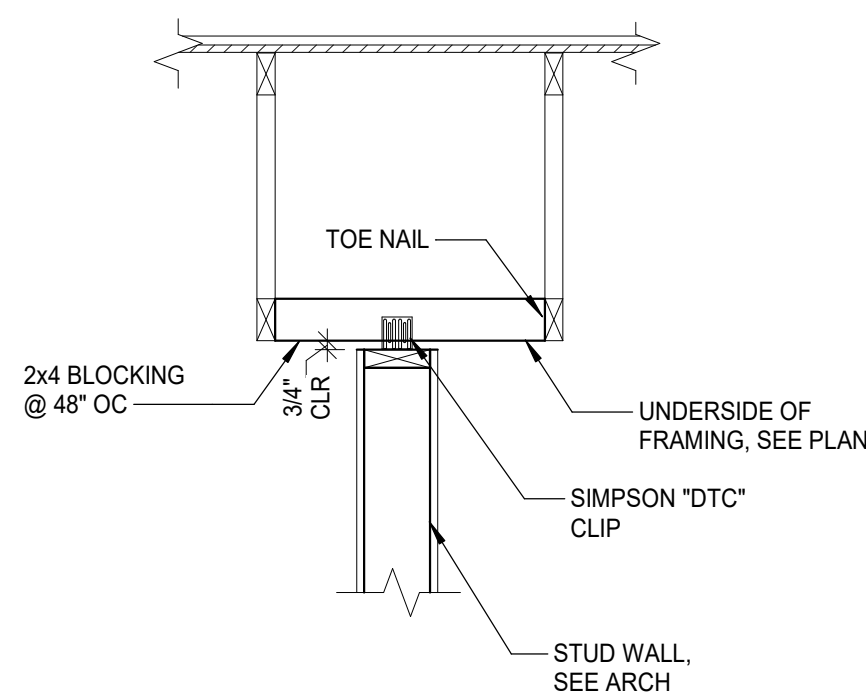
6 TYPICAL DIAPHRAGM BLOCKING

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



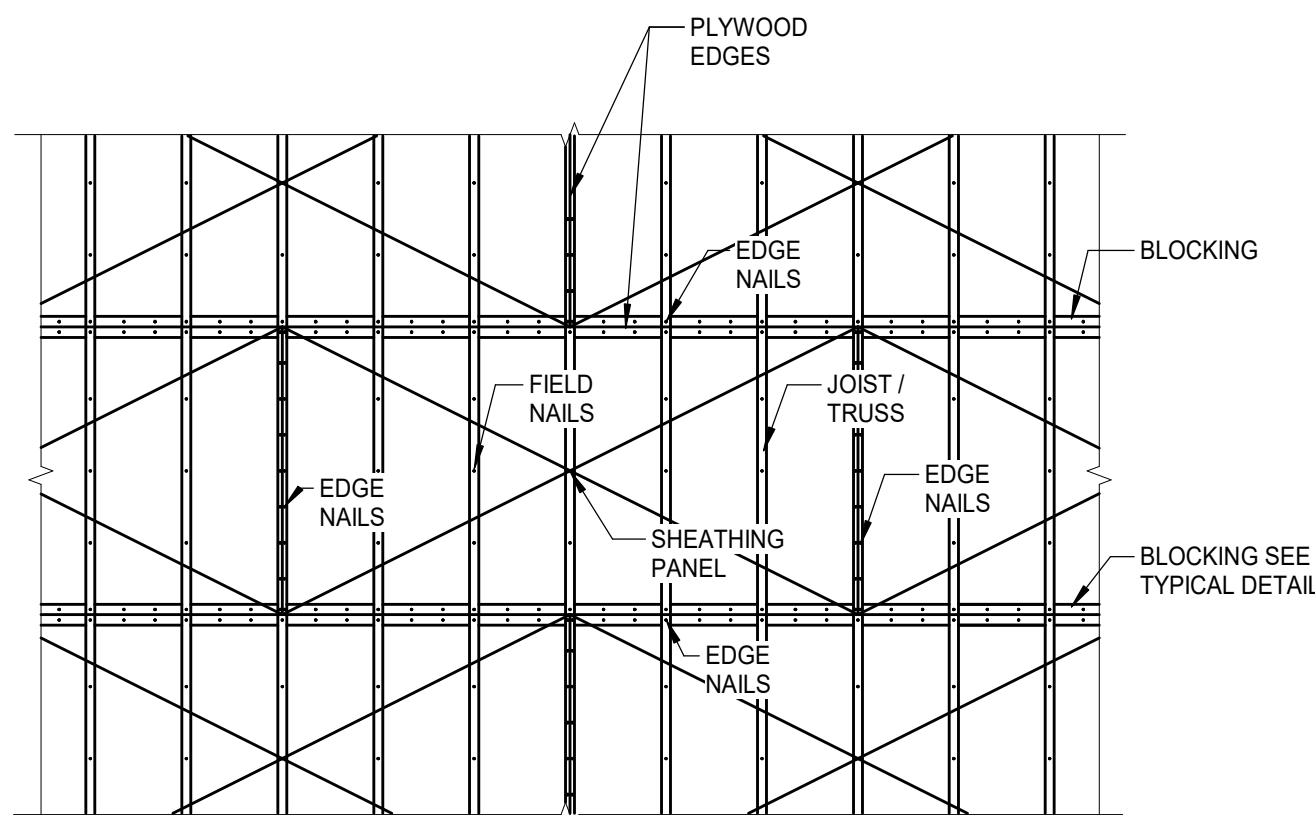
2 TYP HEADER BEARING CONN

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



10 TYPICAL NON-BEARING WALL BRACING

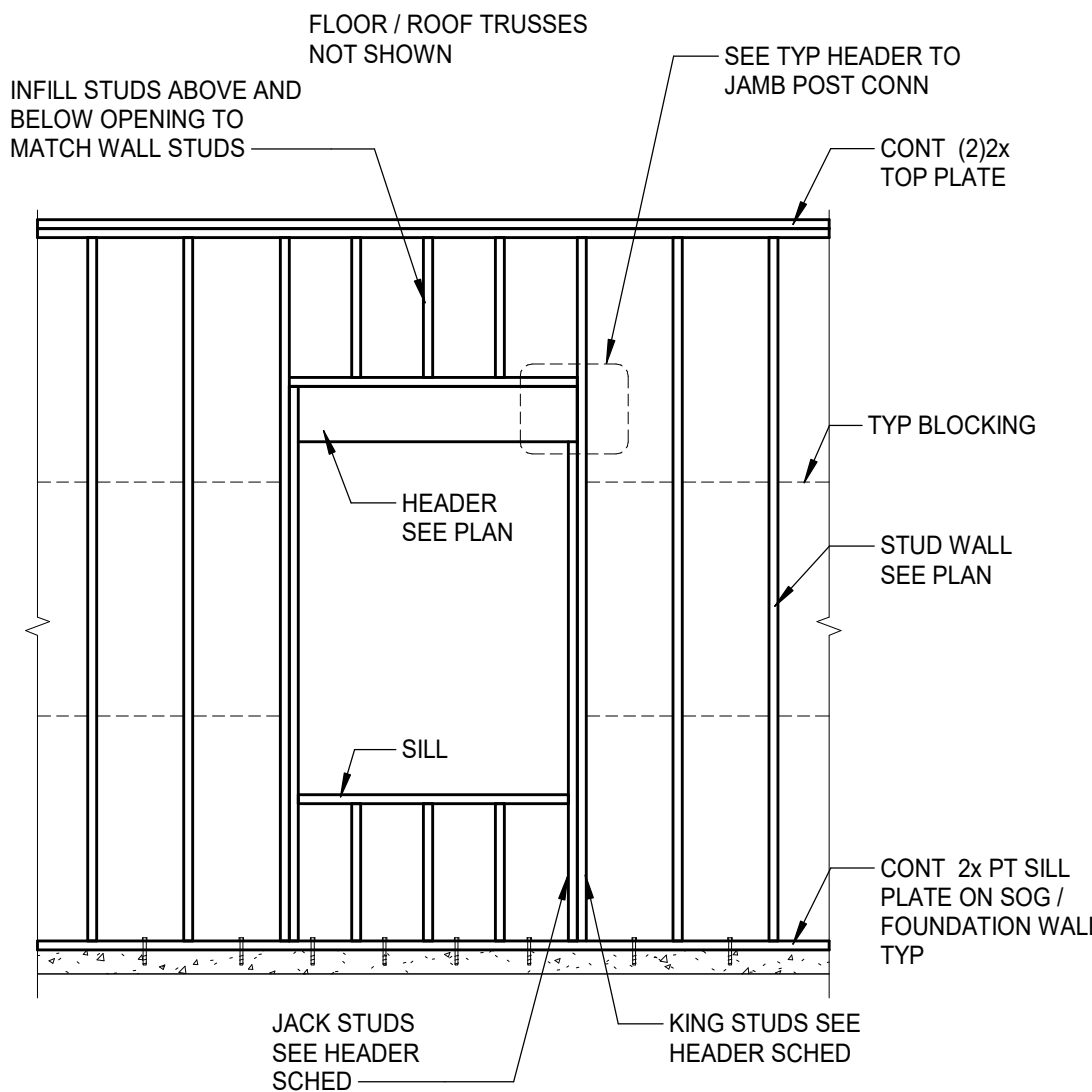
SCALE: 3/4" = 1'-0"



NOTES:
1. SEE PLAN, SCHEDULE AND GENERAL NOTES FOR NAILING PATTERN

5 TYPICAL DIAPHRAGM NAILING

SCALE: 3/8" = 1'-0"



1 TYPICAL WALL ELEVATION

SCALE: 3/8" = 1'-0"



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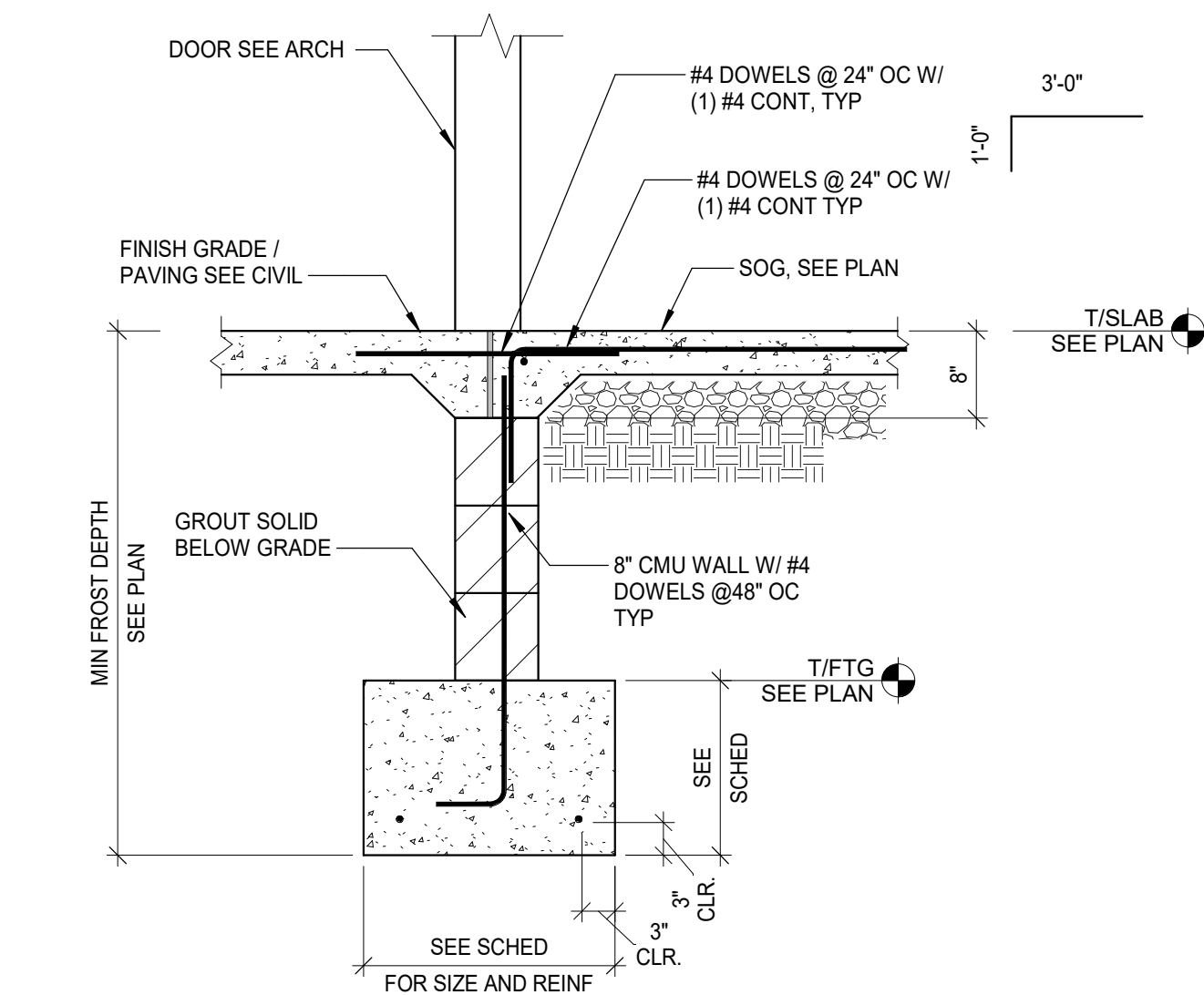
S-340
TYPICAL WOOD DETAILS

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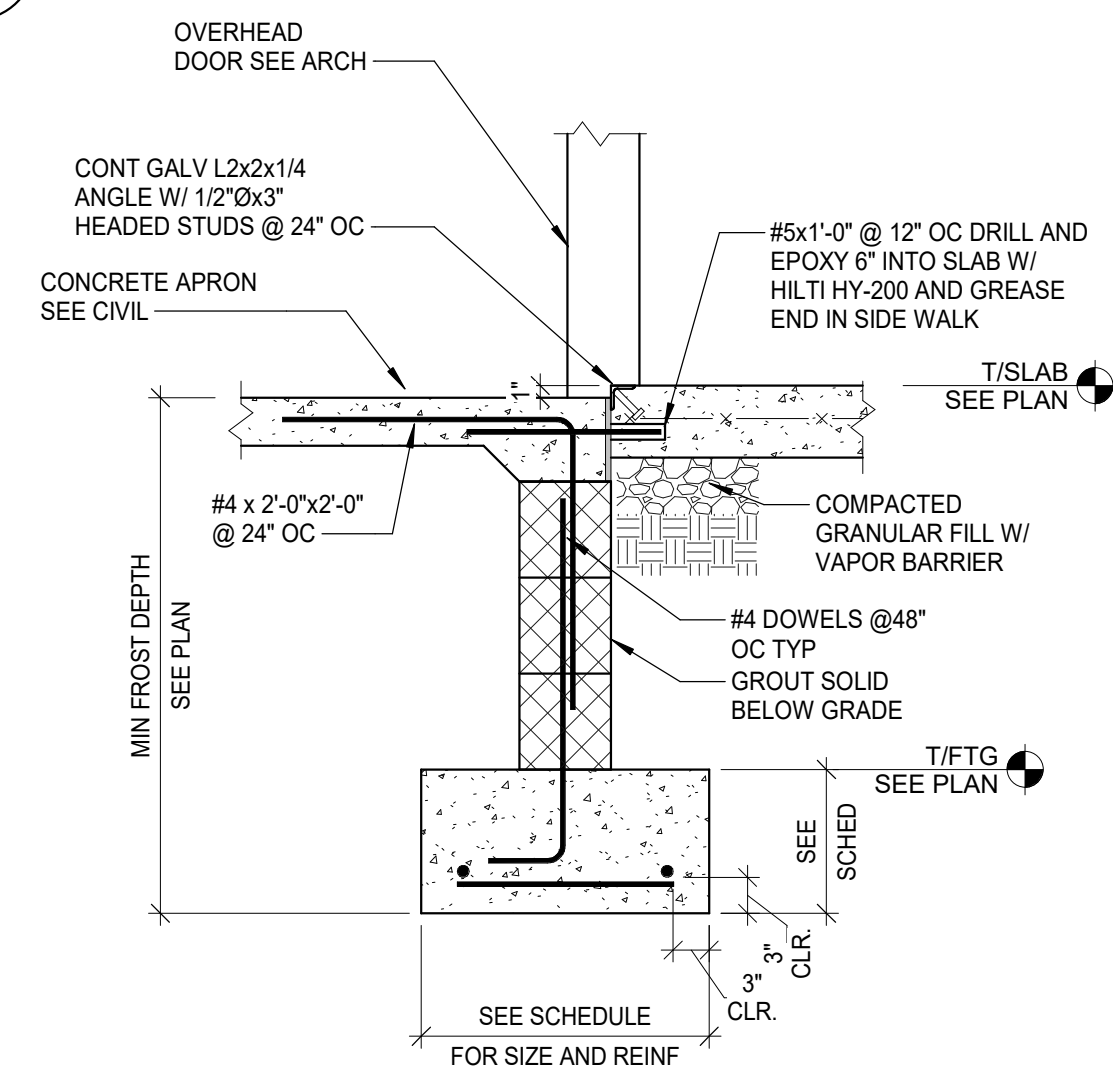
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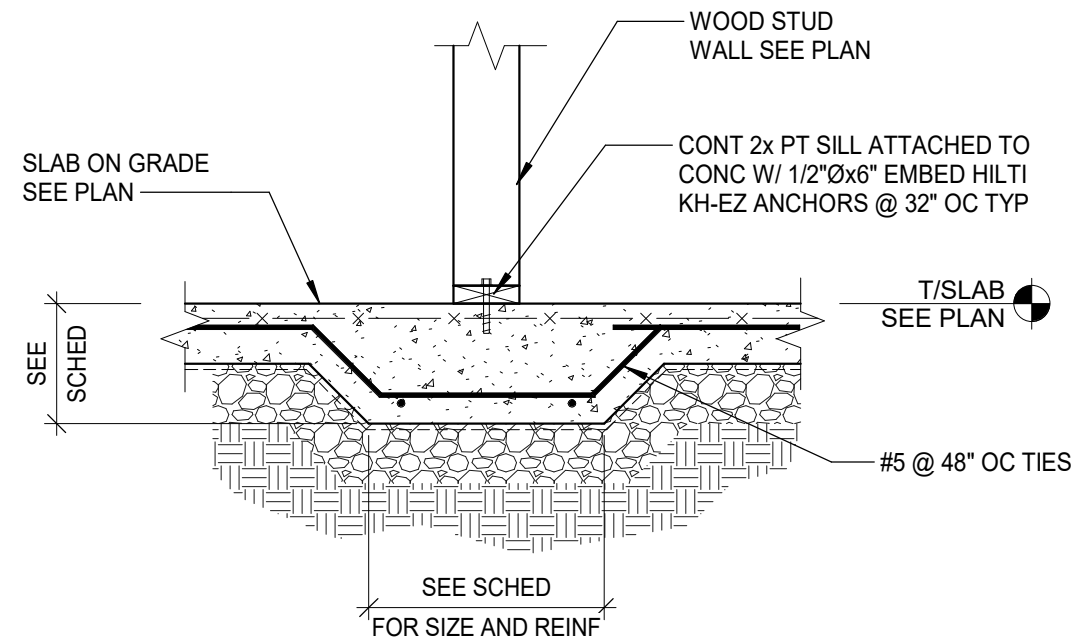
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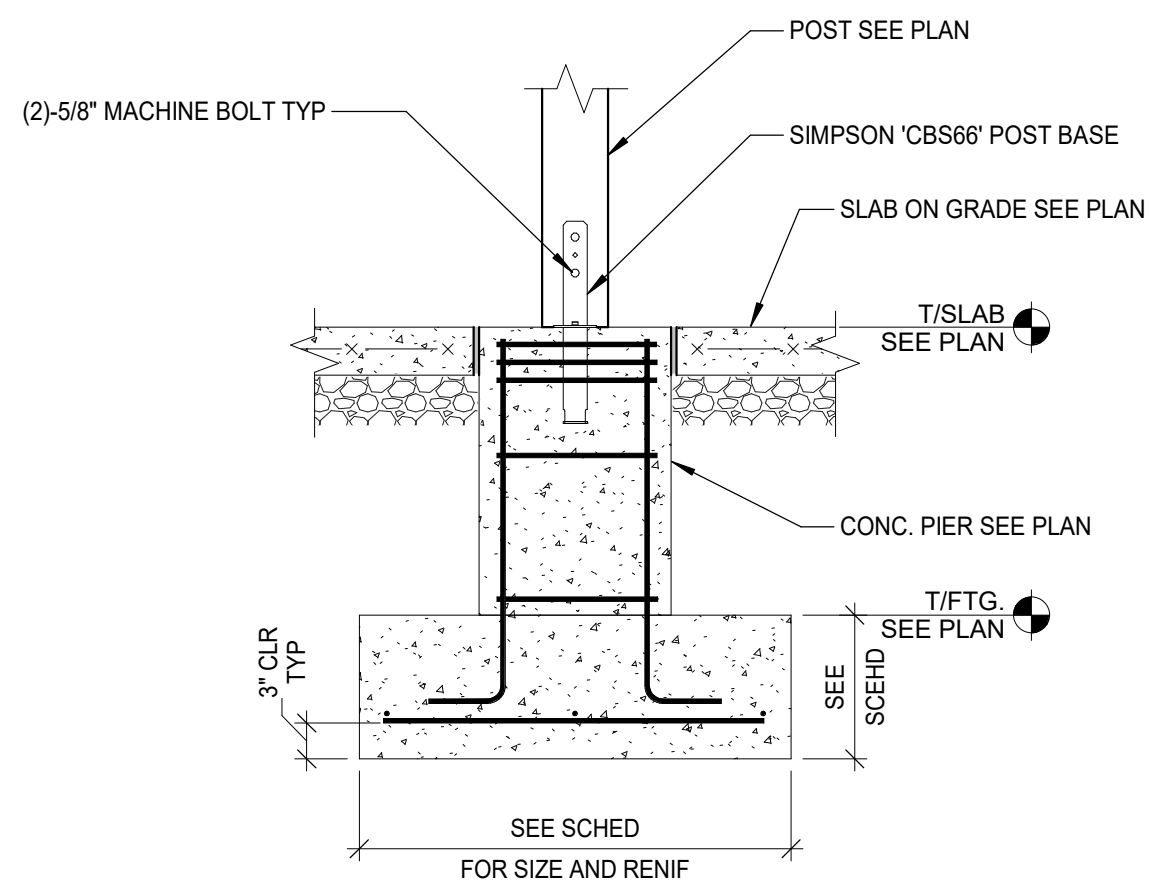
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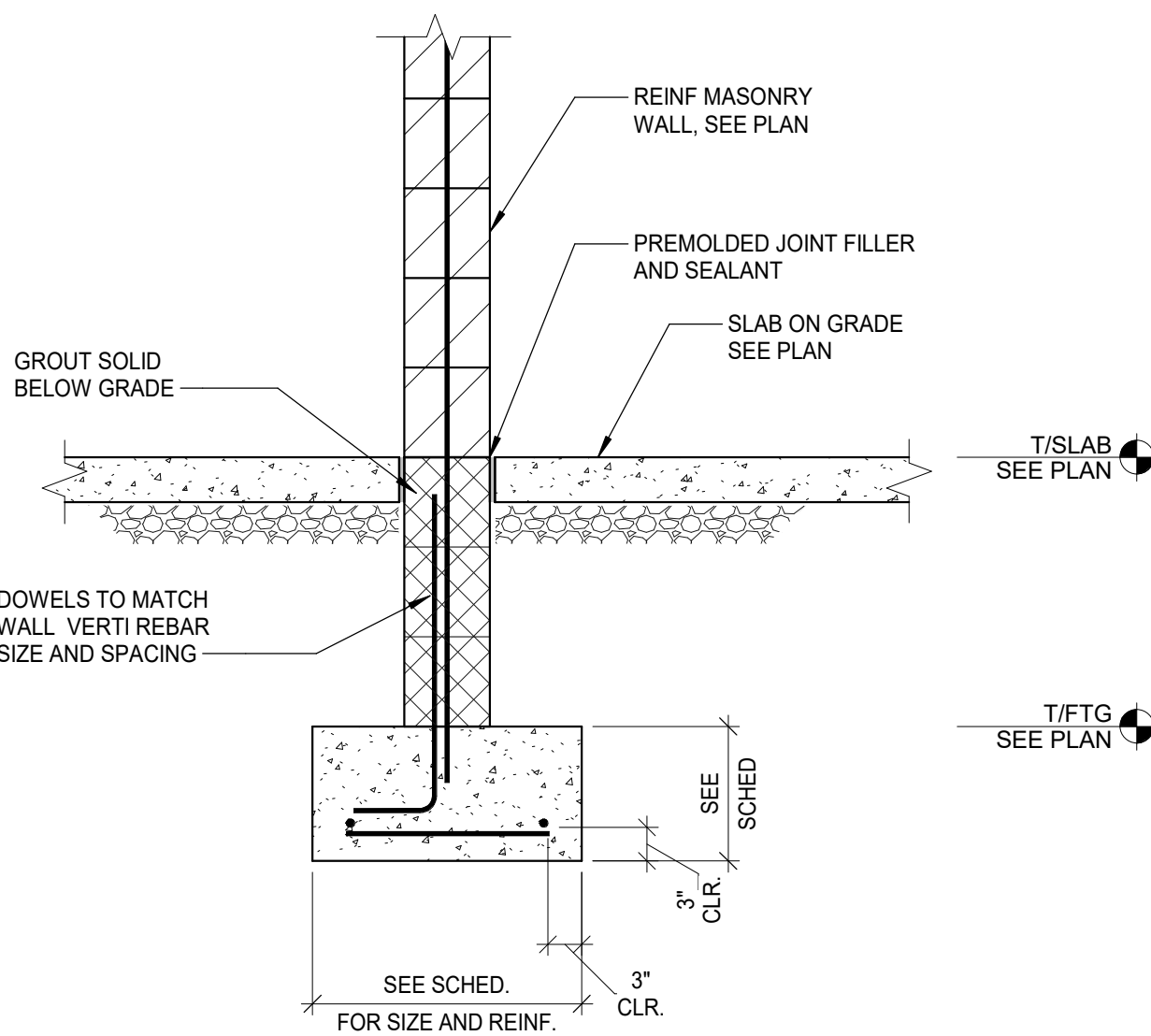
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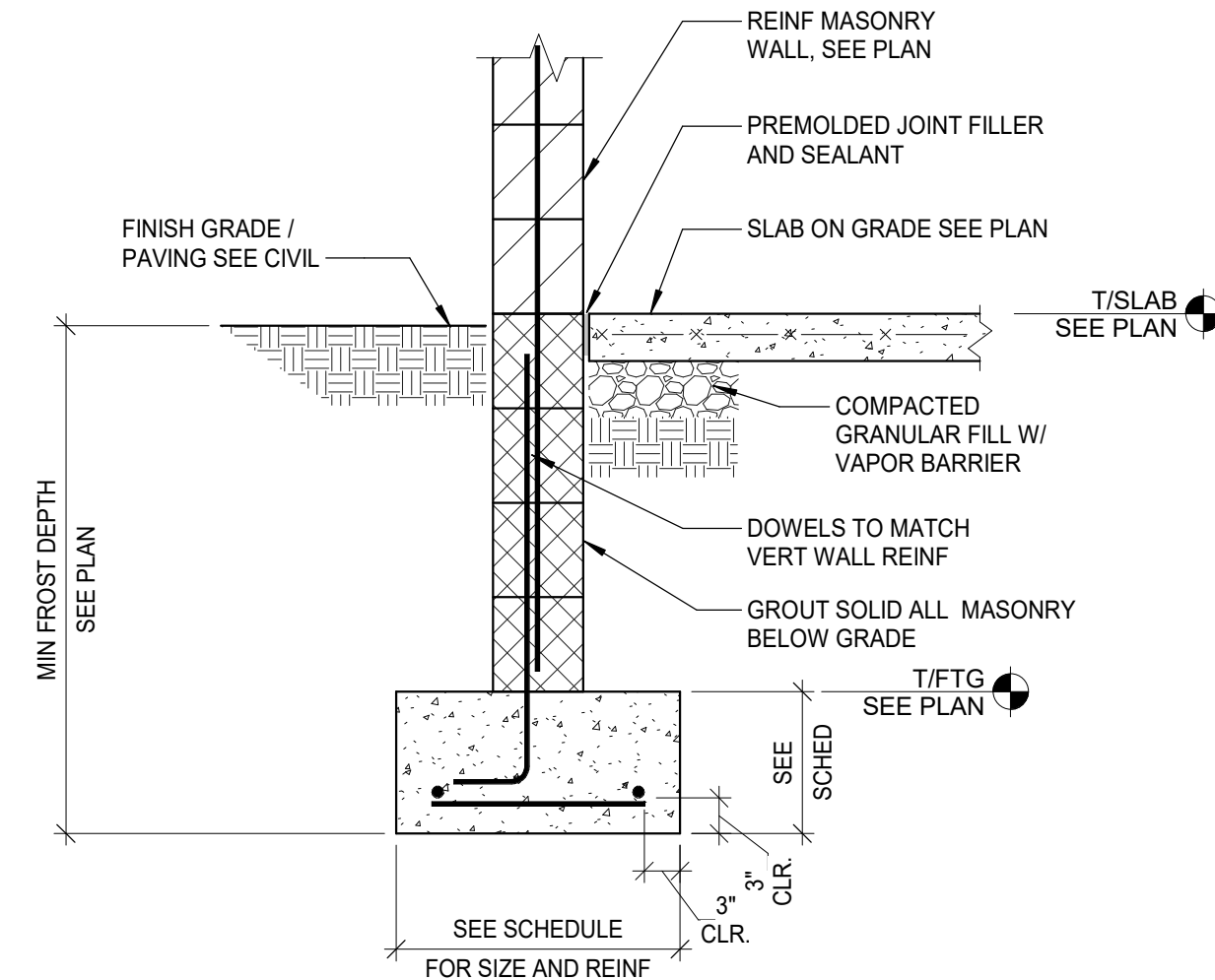
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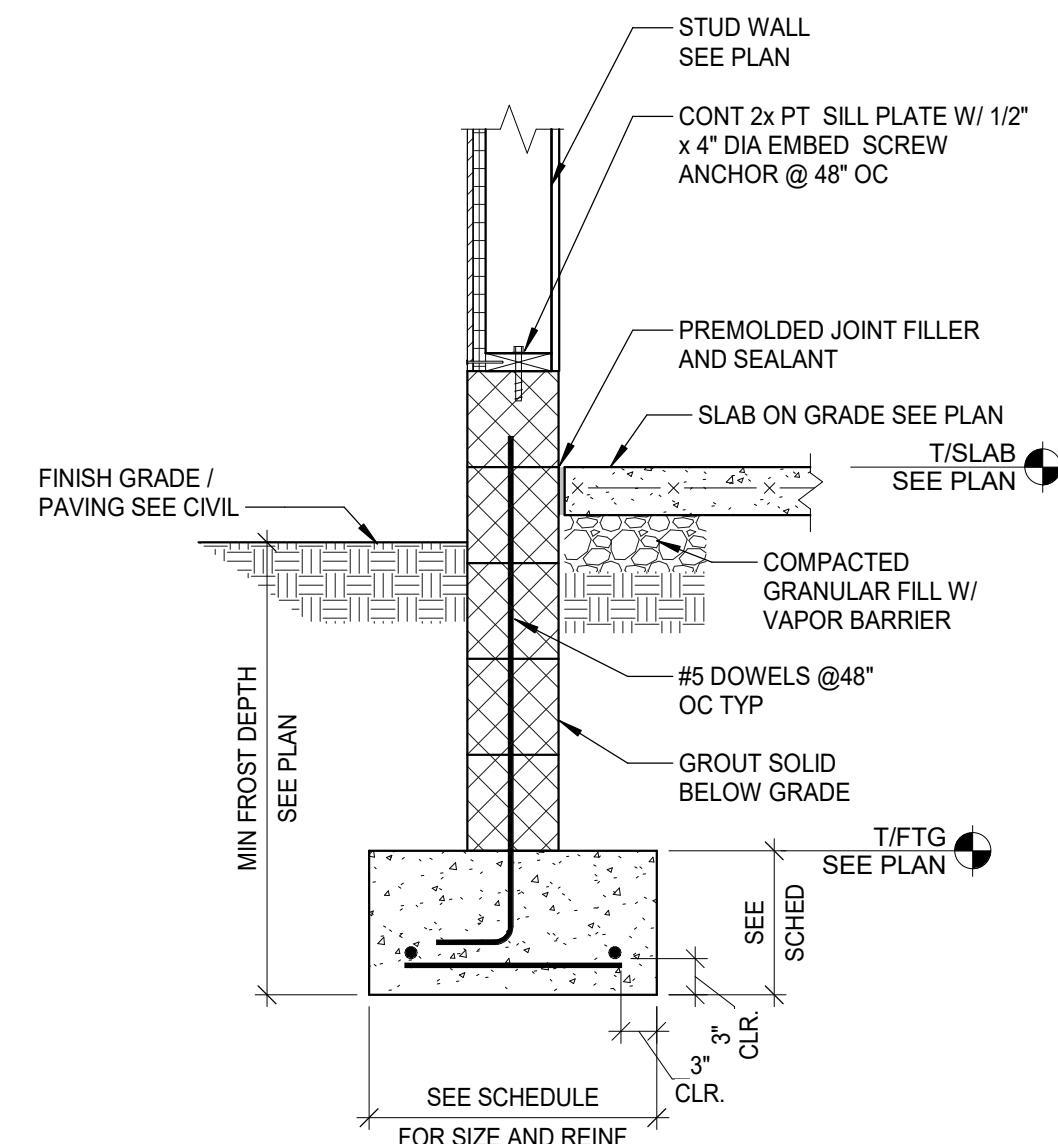
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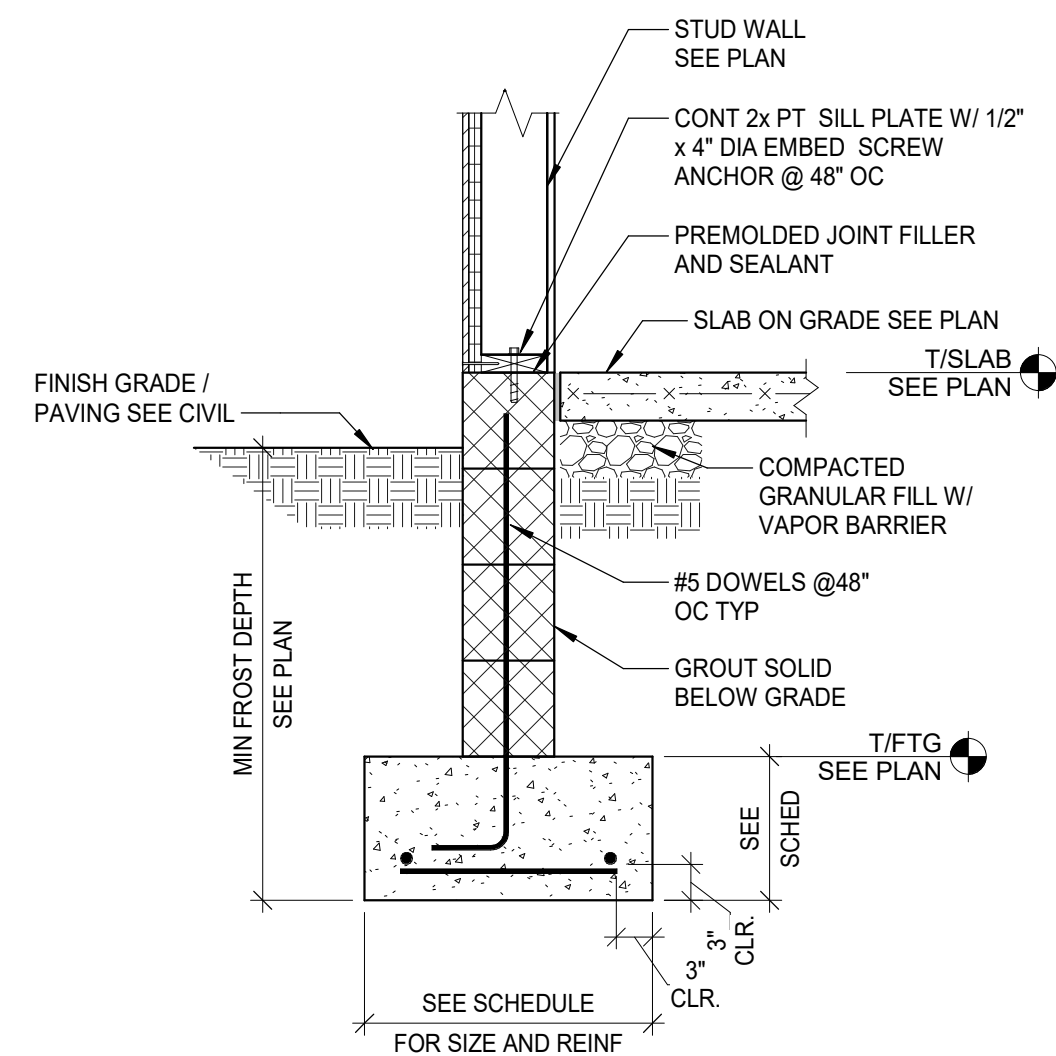
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SCALE: 3/4" = 1'-0"



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



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



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



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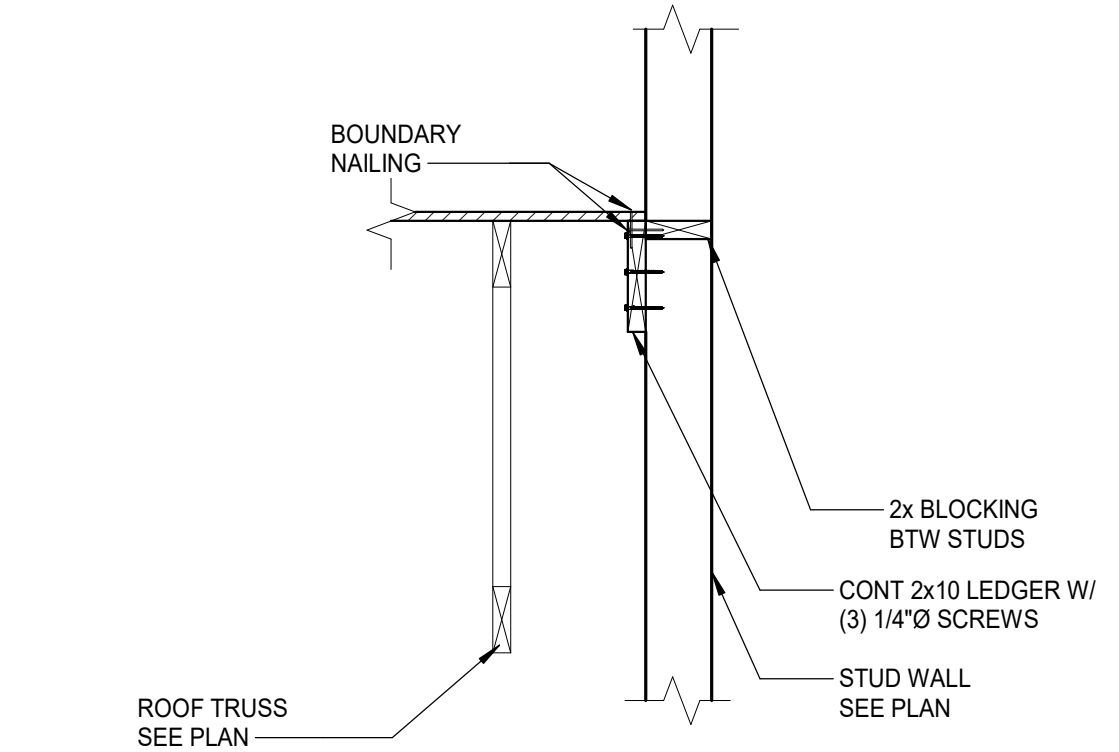
S-510
FOUNDATION SECTIONS

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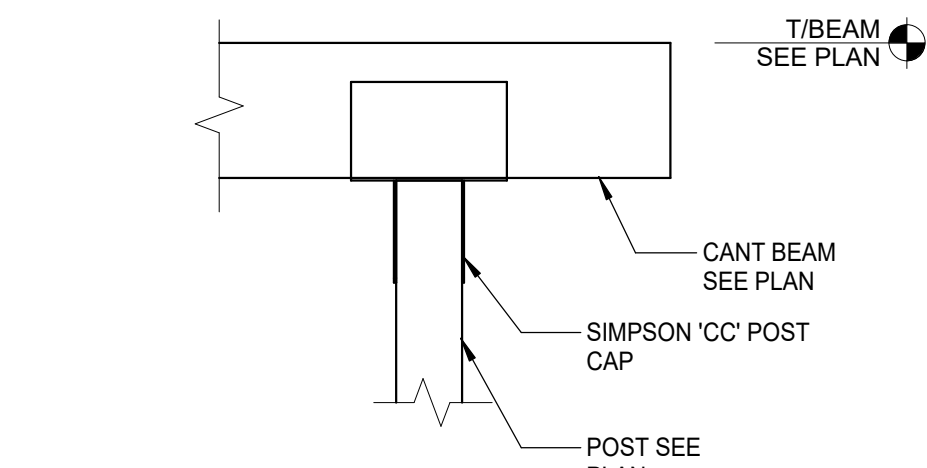
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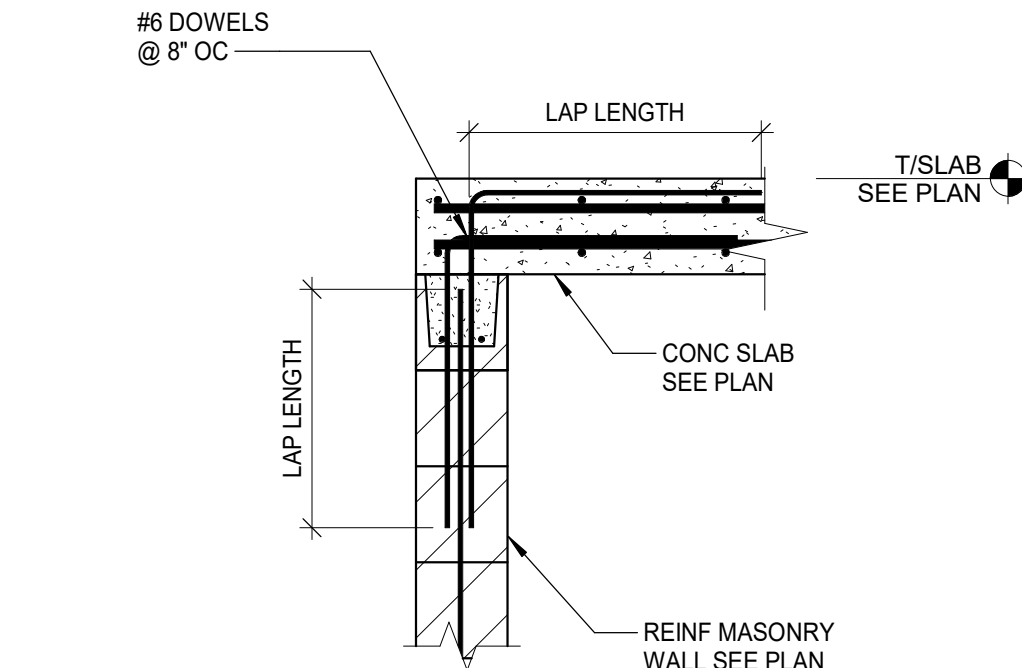
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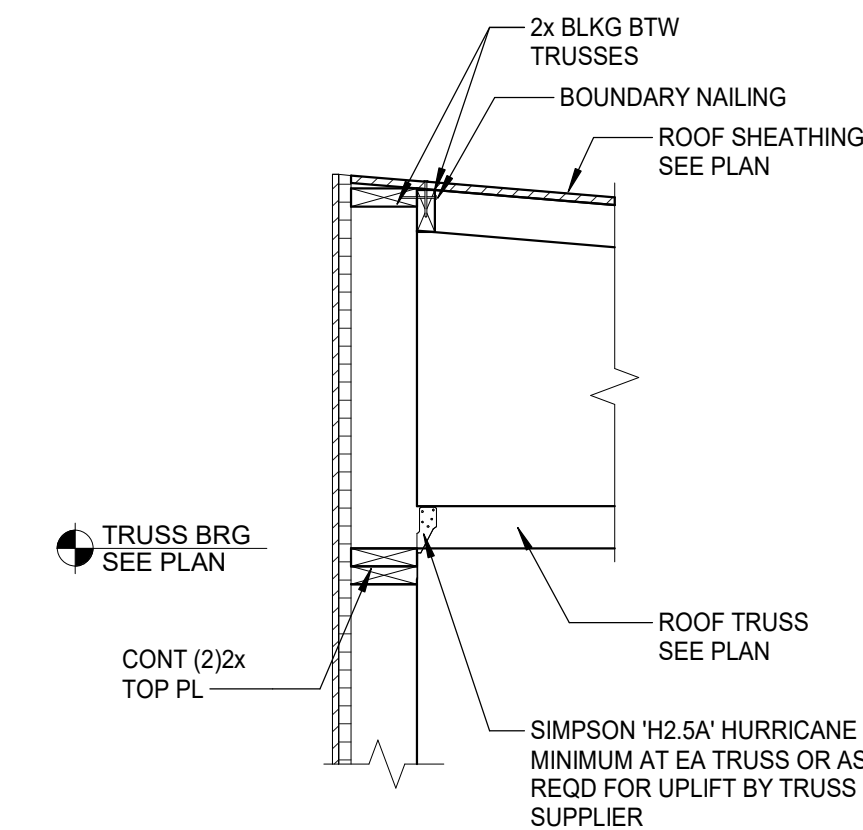
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SCALE: 3/4" = 1'-0"



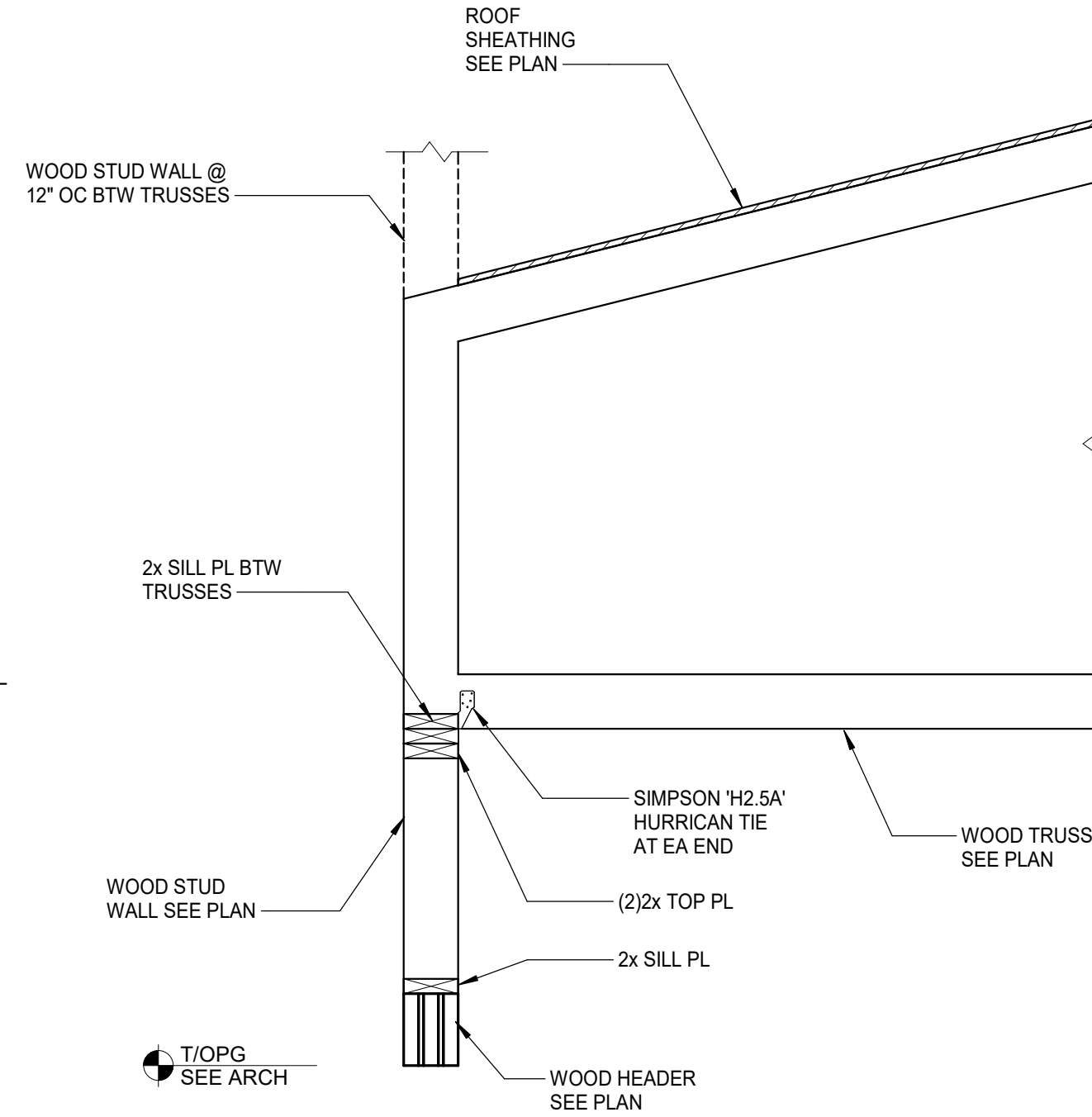
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SCALE: 3/4" = 1'-0"



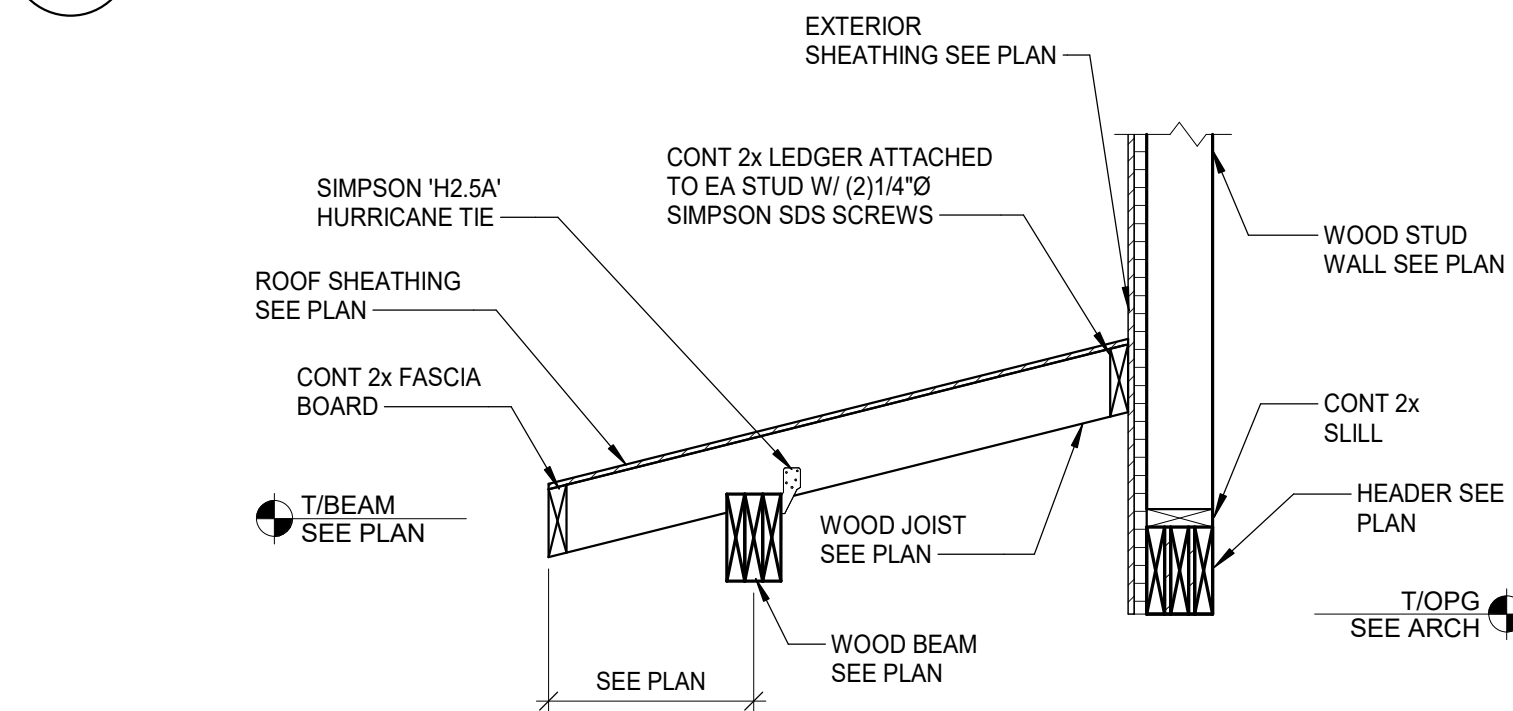
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SCALE: 3/4" = 1'-0"



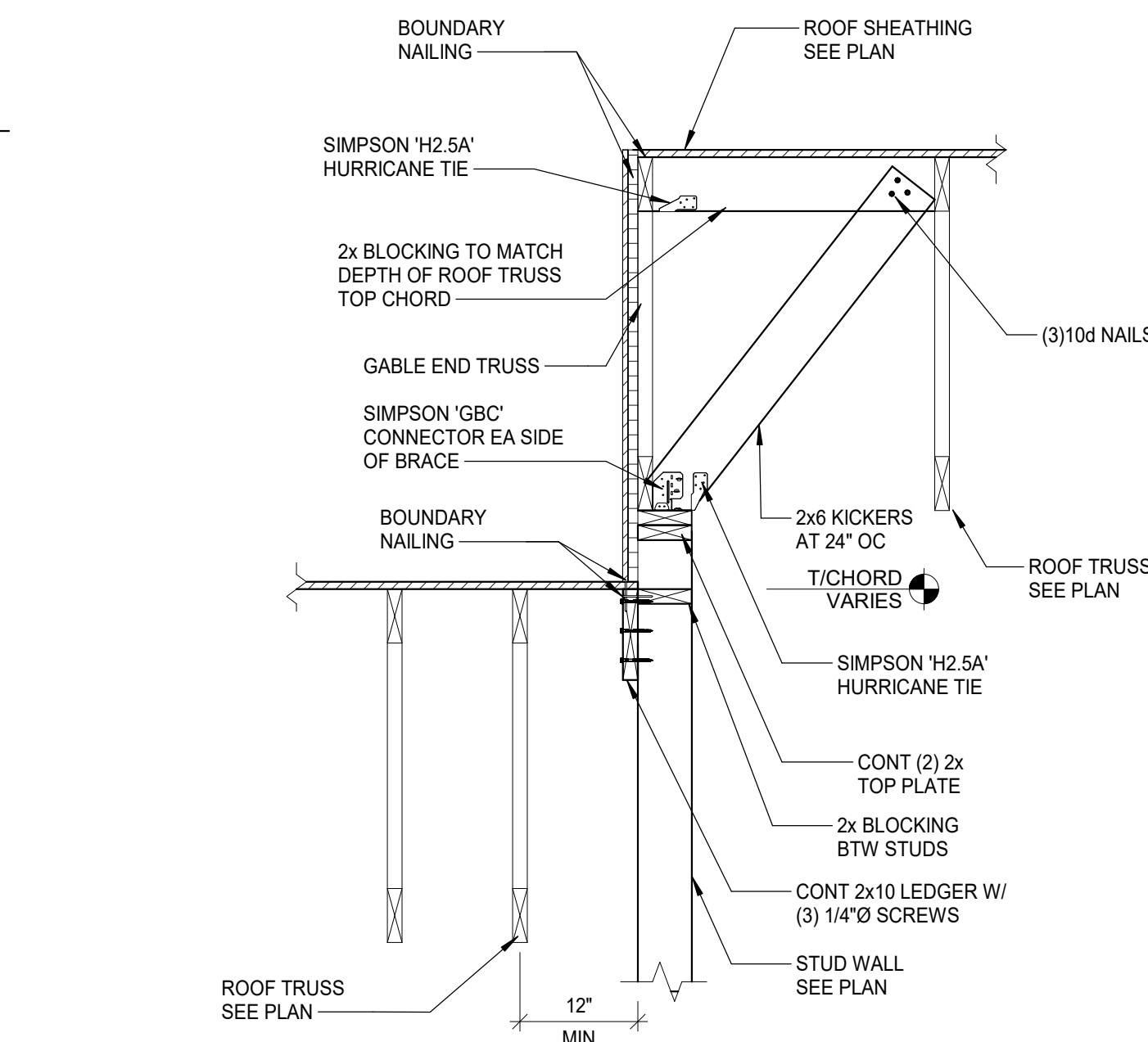
8 SECTION
SCALE: 3/4" = 1'-0"



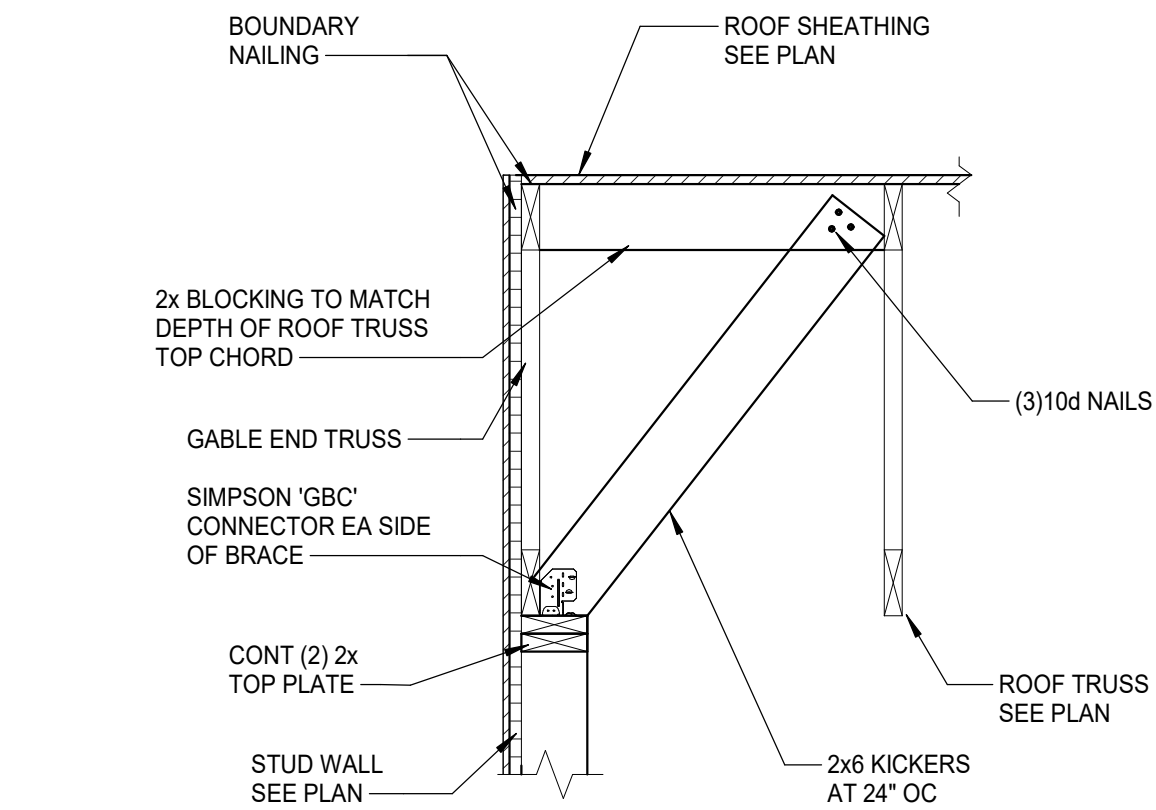
7 SECTION
SCALE: 3/4" = 1'-0"



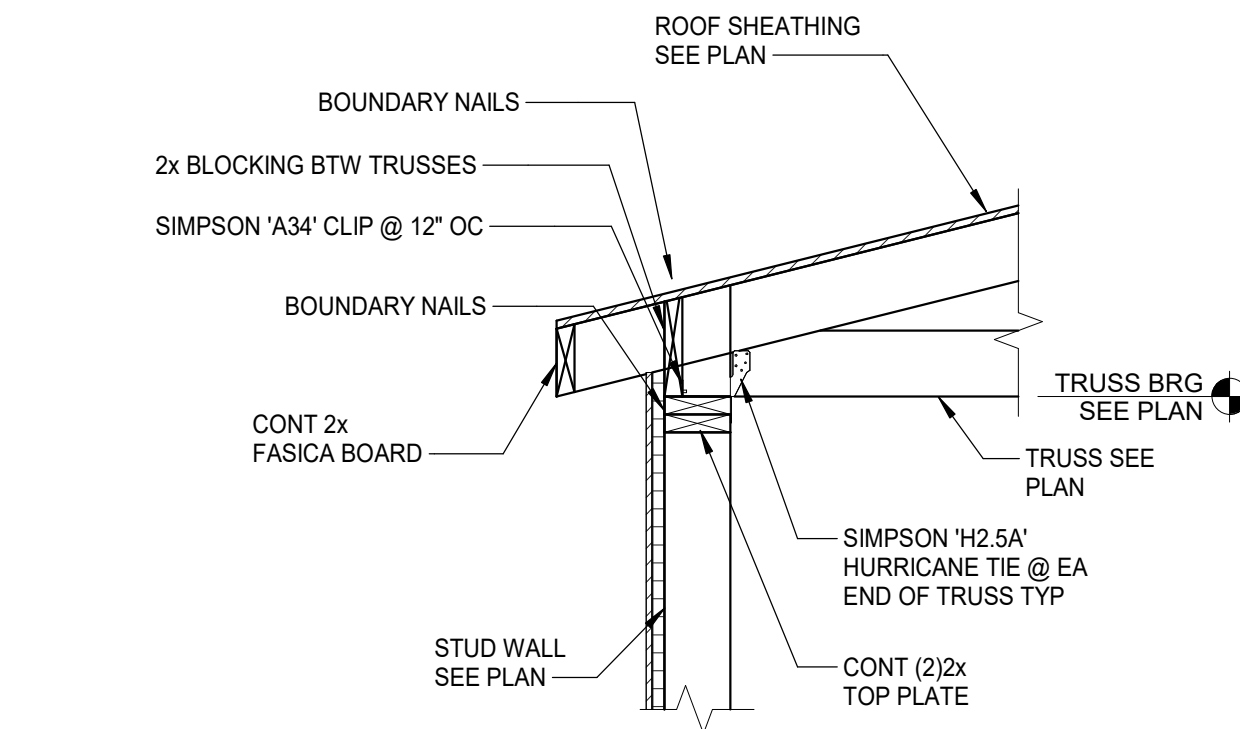
6 SECTION
SCALE: 3/4" = 1'-0"



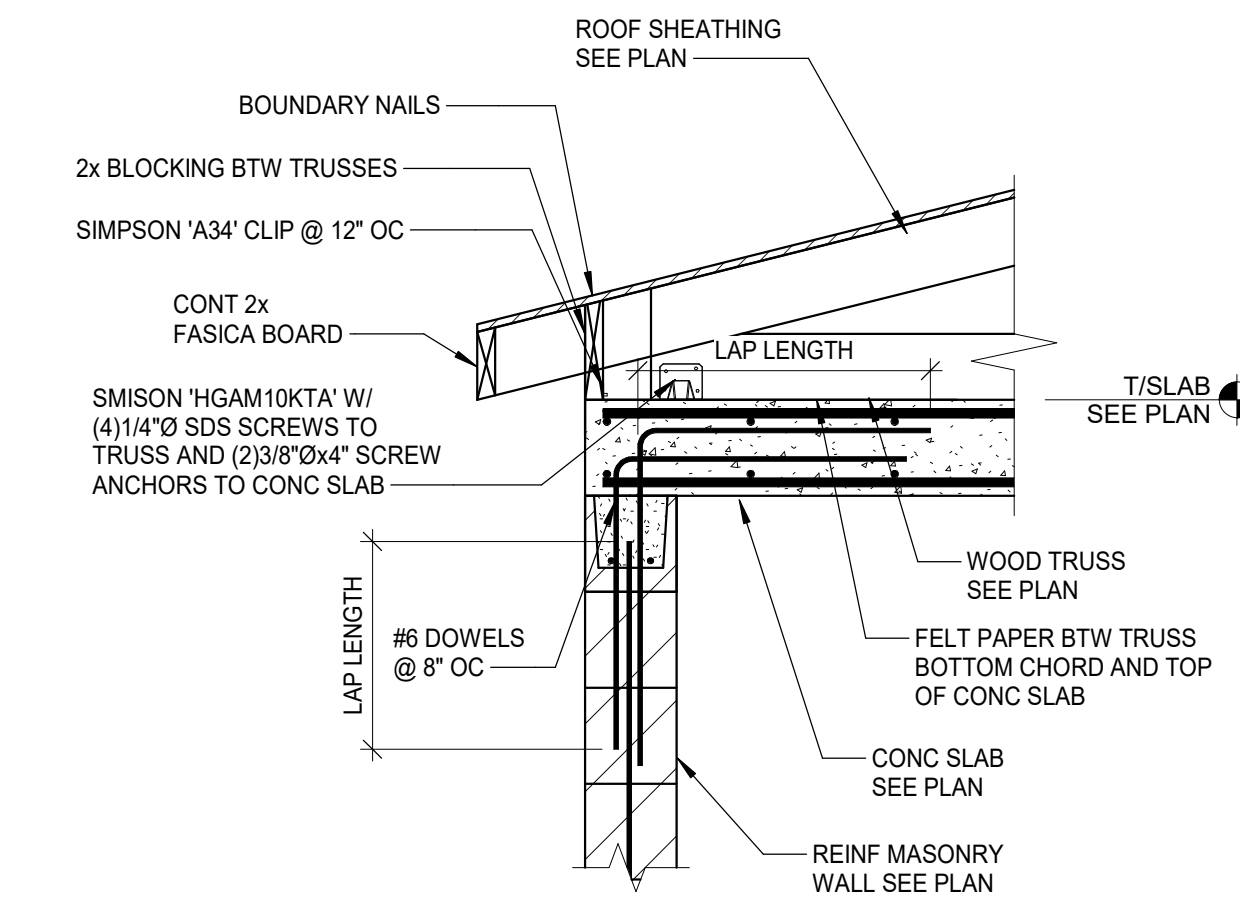
5 SECTION
SCALE: 3/4" = 1'-0"



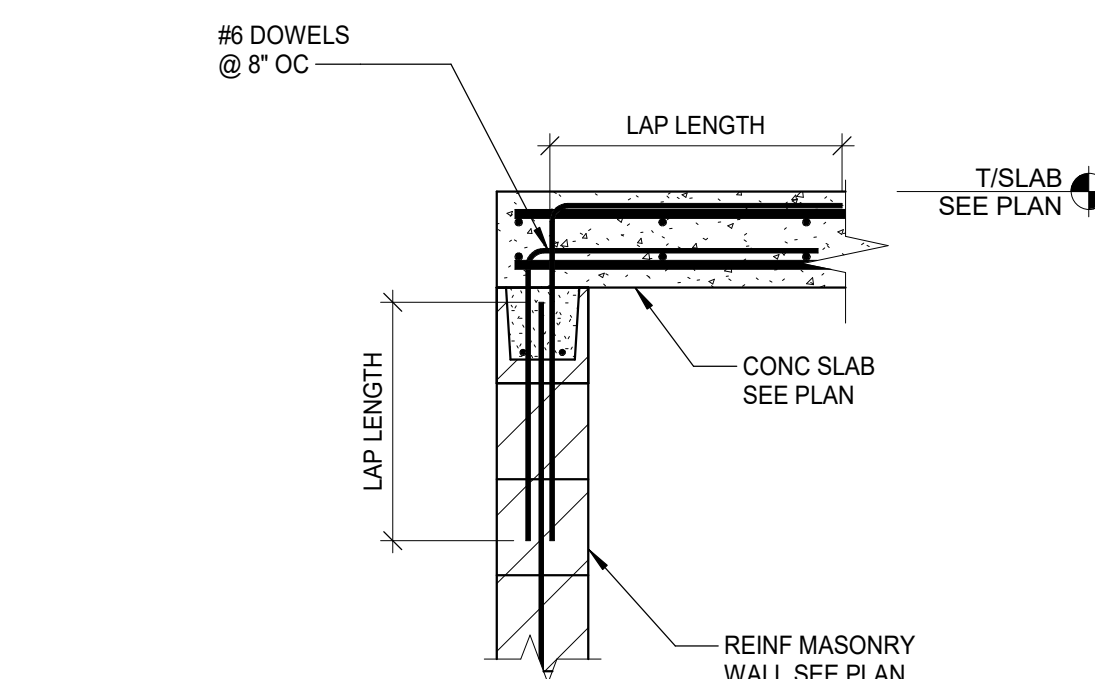
4 SECTION
SCALE: 3/4" = 1'-0"



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



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



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



LIFE FIRST AMBULANCE DISTRICT

LIFE FIRST AMBULANCE STATION

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S-520
ROOF FRAMING SECTIONS

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7/31/2026 2:52:25 PM

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1. EXTERIOR WALL DIMENSIONS ARE TO FACE OF FOUNDATION WALL (SEE DETAIL 3/S-510) AND CENTER OF WALL OPENINGS.
2. INTERIOR WALL DIMENSIONS ARE TO FACE OF FINISHED WALL SURFACE.
3. PROVIDE PENETRATION FIRESTOPPING FOR ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS.
4. PROVIDE JOINT FIRESTOPPING FOR ALL JOINTS AT FIRE RATED PARTITIONS.

TES	TACTILE (BRAILLE) EXIT SIGN
R#	ROOM NUMBER SIGNS
RR	RESTROOM SIGNS
MOC	MAXIMUM OCCUPANT LOAD SIGN
<u>STORM SIGNAGE</u>	
DIS	DESIGN INFORMATION SIGNAGE
DS	DIRECTIONAL SIGNAGE
PS	PERIMETER SIGNAGE
ESS	ENTRY SIGNAGE

INTERIOR WALL LEGEND:

 GYPSUM BOARD ON EXPOSED FACES OF 2X4 WOOD FRAMING AT 16" O.C. WITH FULL DEPTH SOUND ATTENUATION, STC RATING 35. EXTEND TO BOTTOM OF TRUSS. SEE SYMBOL — FOR WALLS THAT ARE 1 HOUR RATED FIRE PARTITIONS U1 305 ASSEMBLY.

 GYPSUM BOARD ON EXPOSED FACES OF 2X4 WOOD FRAMING AT 16" O.C. WITH FULL DEPTH SOUND ATTENUATION, STC RATING 47. EXTEND TO BOTTOM OF TRUSS.

 CONCRETE MASONRY UNIT WALL WITH CAP. SEE STRUCTURAL. STC RATING 55. SEE SYMBOL — FOR WALLS THAT ARE 1 HOUR FIRE RATED PARTITIONS.

#	DESCRIPTION
1	WALL MOUNTED INVERTER. SEE ELECTRICAL PLAN
2	OWNER-PROVIDED FURNITURE
3	EMERGENCY SHOWER AND EYEWASH STATION PLUMBING
4	WASHER BY OWNER
5	DRYER BY OWNER
6	LVT1 FLOORING
7	CPT1 FLOORING
8	CHAIRS BY OWNER (TYPICAL)
9	TABLES BY OWNER
10	DESKTOP PRINTER BY OWNER
11	GAS FIRED WATER HEATER. SEE PLUMBING.
12	FURNACE. SEE HVAC.
13	WALL MOUNTED TELEVISION BY OWNER.
14	ALIGN
15	KEY LOCK BOX
16	KEY CONTROL CABINET

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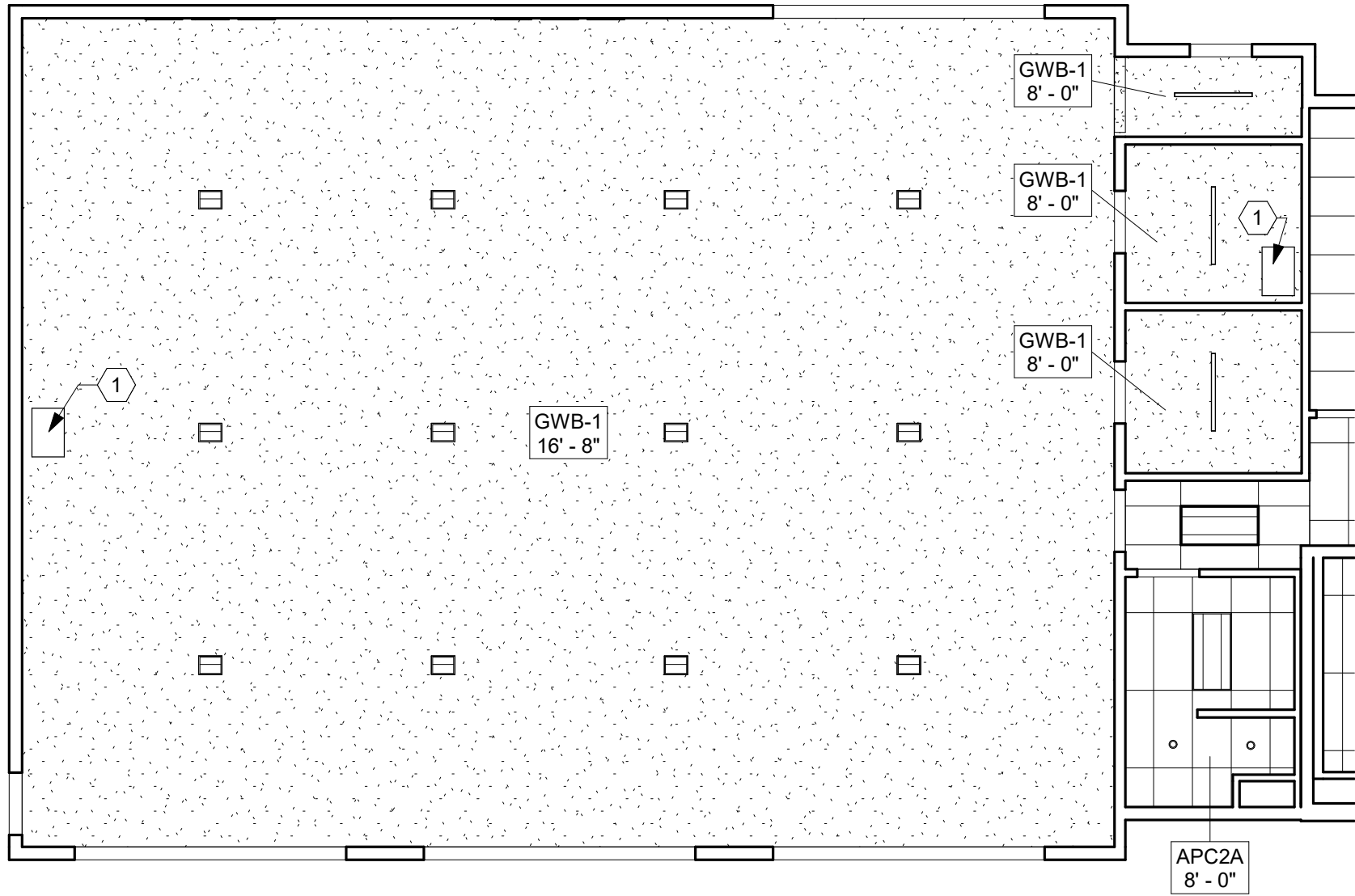
REVISIONS:

A-100

FLOOR PLAN



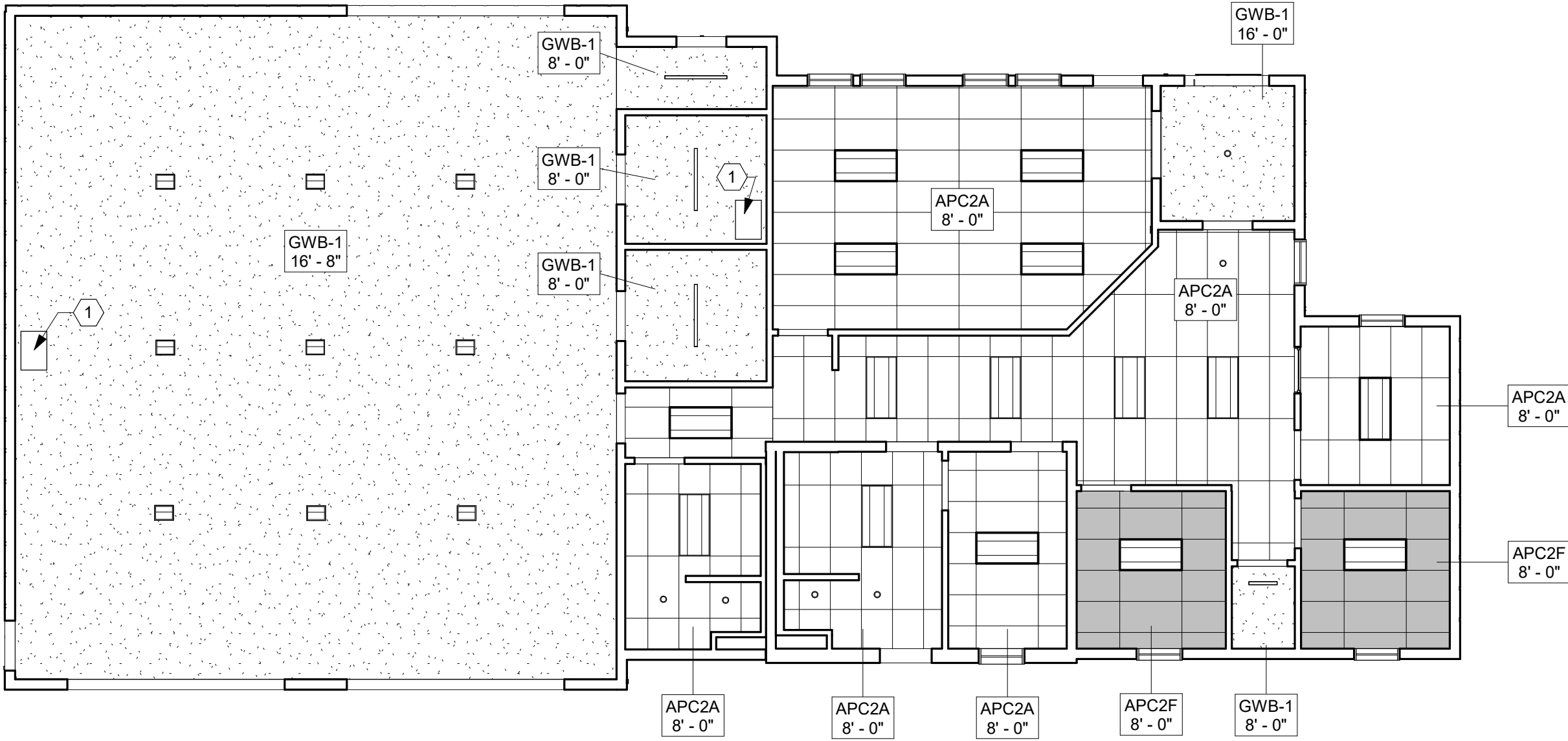
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REFLECTED CEILING PLAN
(ALTERNATE #3)

1/8" = 1'-0"

2



REFLECTED CEILING PLAN (BASE
BID)

1/8" = 1'-0"

1



REFLECTED CEILING PLAN LEGEND	
	APC 2X4
	APC 2X4 - 1 HOUR RATED
	GYPSUM WALL BOARD
	CEILING TYPE / HEIGHT TAG

CODED NOTES - REF. CEILING PLAN	
#	DESCRIPTION
1	22" X 30" ATTIC ACCESS OPENING. COORDINATE WITH TRUSS LOCATIONS AND MECHANICAL AND ELECTRIC EQUIPMENT. SEE DETAIL 11/A-301.

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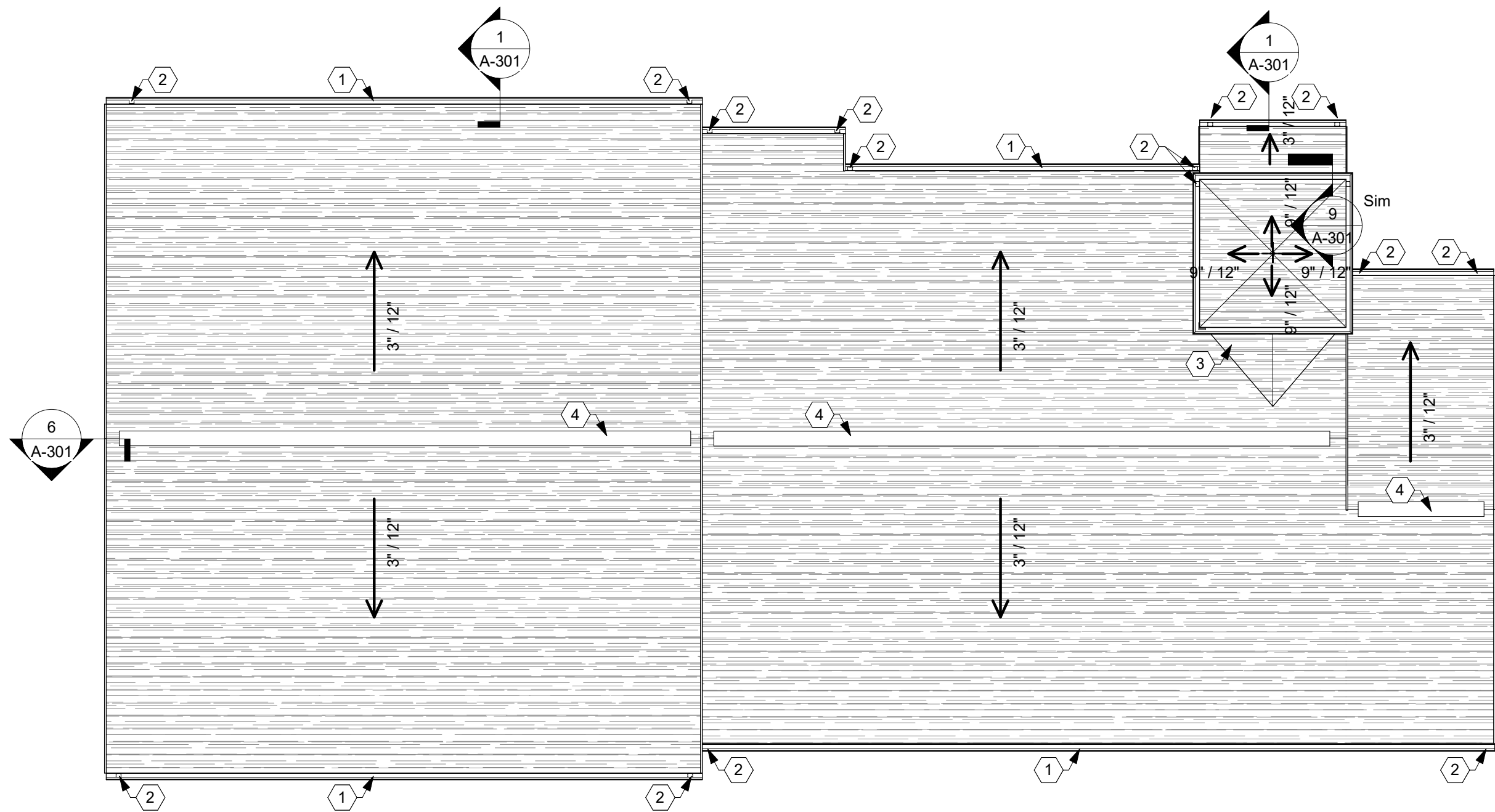
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A-101
REFLECTED CEILING PLAN

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ROOF PLAN 1
1/8" = 1'-0"

ROOF PLAN LEGEND	
	STANDING SEAM METAL ROOF

CODED NOTES - ROOF PLAN	
#	DESCRIPTION
1	5" GUTTER
2	2" NOMINAL RECTANGULAR CORRUGATED DOWNSPOUT WITH PVC BOOT
3	CRICKET
4	RIDGE VENT

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A-120
ROOF PLAN

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CASEWORK SCHEDULE				
TYPE MARK	DESCRIPTION	WIDTH	HEIGHT	DEPTH
BC1	DOUBLE DOOR, 1 SHELF, 2 HANDLE	2' - 6"	2' - 8 1/2"	2' - 0"
BC3	SINGLE DOOR, 1 SHELF, 1 HANDLE	1' - 6"	2' - 8 1/2"	2' - 0"
WC1	DOUBLE DOOR, 1 ADJUSTABLE SHELF, 2 HANDLE	2' - 6"	1' - 3"	1' - 0"
WC2	DOUBLE DOOR, 1 ADJUSTABLE SHELF, 2 HANDLE	2' - 6"	2' - 6"	1' - 0"
WC3	SINGLE DOOR, 1 ADJUSTABLE SHELF, 1 HANDLE	1' - 6"	2' - 6"	1' - 0"
WC4	DOUBLE DOOR, 2 HANDLE	2' - 6"	1' - 0"	1' - 0"
COUNTERTOP				
PLAM1	PLASTIC LAMINATE COUNTERTOP	5' - 0"	3' - 0"	2' - 1"
PLAM2	PLASTIC LAMINATE COUNTERTOP, WITH BACKSPLASH	9' - 0"	3' - 0"	2' - 1"

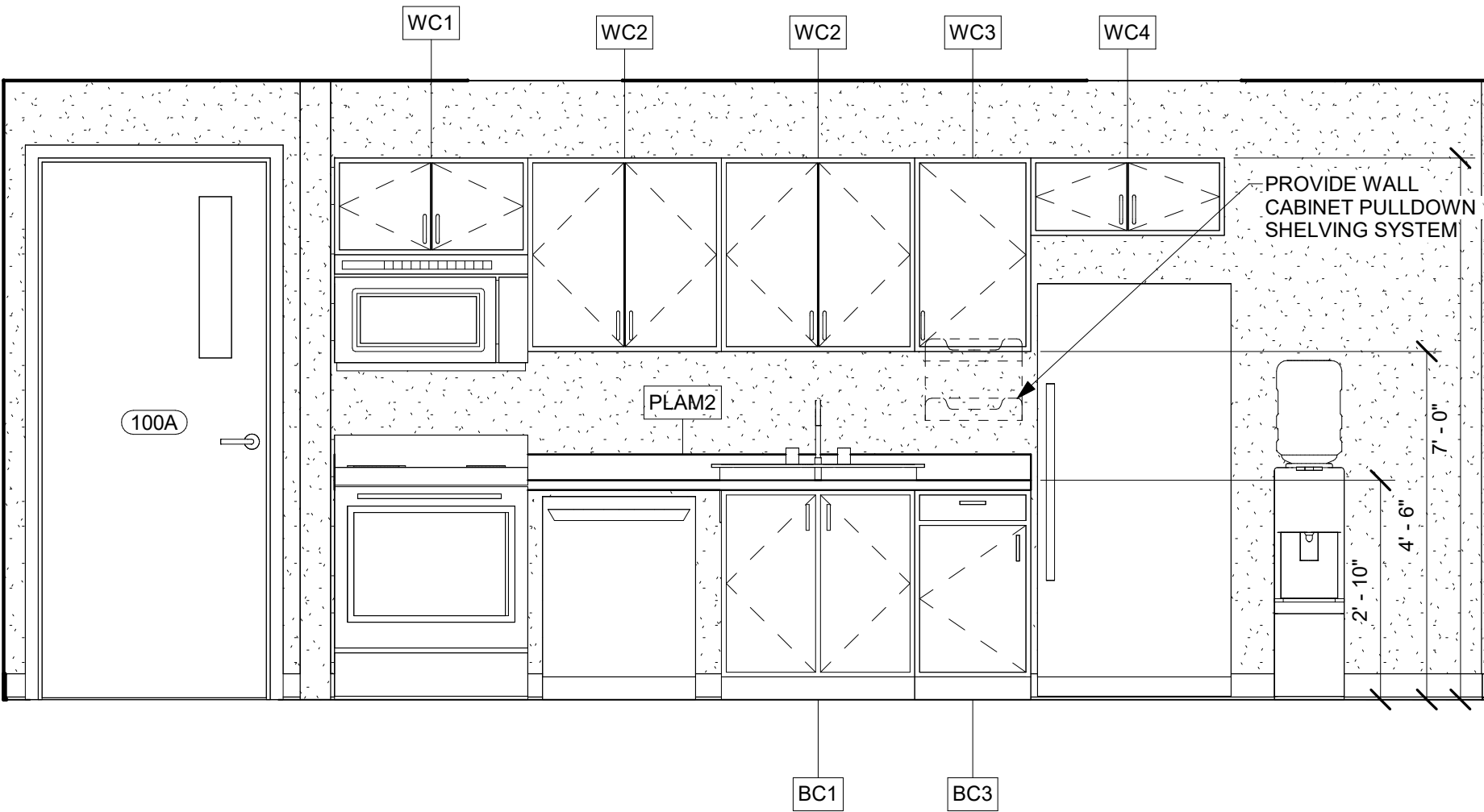
CEILING SCHEDULE			
TYPE MARK	MATERIAL CODE	SPECIFICATION NUMBER	COLOR
GWB-1	GYPSUM WALL BOARD	09 29 00	PAINT PT.1
APC2A	ACOUSTICAL PANEL CEILING - 2X4 TILE	09 51 13	
APC2F	ACOUSTICAL PANEL CEILING - 2X4 TILE	09 51 13	

FINISH SCHEDULE		
MATERIAL CODE	MATERIAL TYPE	SPECIFICATION NUMBER
CMU	CONCRETE MASONRY UNIT	04 20 00
GWB	GYPSUM WALL BOARD	09 29 00
PT1	PAINT	09 91 23
RB1	RESILIENT WALL BASE	09 65 13

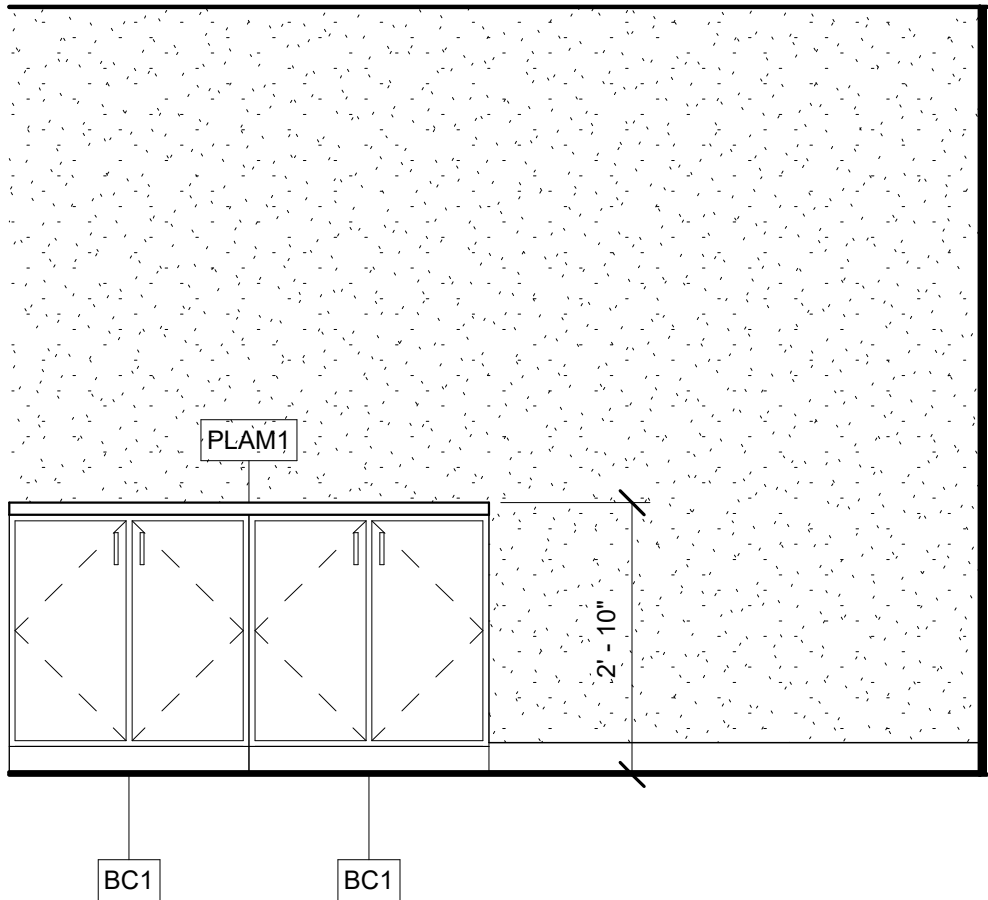
FLOOR FINISH SCHEDULE		
TYPE MARK	MATERIAL CODE	SPECIFICATION NUMBER
LUXURY VINYL TILE		
LVT1	LUXURY VINYL TILE	09 65 19
TILE CARPETING		
CPT1	TILE CARPETING	09 68 13
TILE CARPETING - WALKOFF		
CPTW	TILE CARPETING - WALKOFF	09 68 13

WALL FINISH SCHEDULE		
TYPE MARK	MATERIAL CODE	SPECIFICATION NUMBER
CT1	CERAMIC TILING	09 30 13

ROOM FINISH SCHEDULE					
ROOM NO.	ROOM NAME	FLOOR	BASE	WALL FINISH	CEILING FINISH
100	WORK ROOM	CPT1	CPT1	PT1	APC2A
101	CORRIDOR	LVT1 / CPT1	RB1	PT1	APC2A
101A	CUST.	CONC	RB1 / CT1	PT1 / CT1	APC2A
102	OFFICE	CPT1	CPT1	PT1	APC2A
103	EMT	CPT1	CPT1	PT1	APC2A
104	EMT	CPT1	CPT1	PT1	APC2A
105	EMT	CPT1	CPT1	PT1	APC2A
106	RESTROOM	LVT1	RB1 / CT1	PT1 / CT1	APC2A
107	RESTROOM	LVT1	RB1 / CT1	PT1 / CT1	APC2A
108	MECH	CONC	CPT1	PT1	GWB-1
109	STORAGE	CONC	CPT1	PT1	GWB-1
110	GARAGE	CONC	CPT1	PT1	GWB-1
V100	VESTIBULE	CPTW	CPT1	PT1	GWB-1



ROOM 101 - KITCHEN ELEVATION 3
1/2" = 1'-0"



ROOM 102 - OFFICE ELEVATION 2
1/2" = 1'-0"

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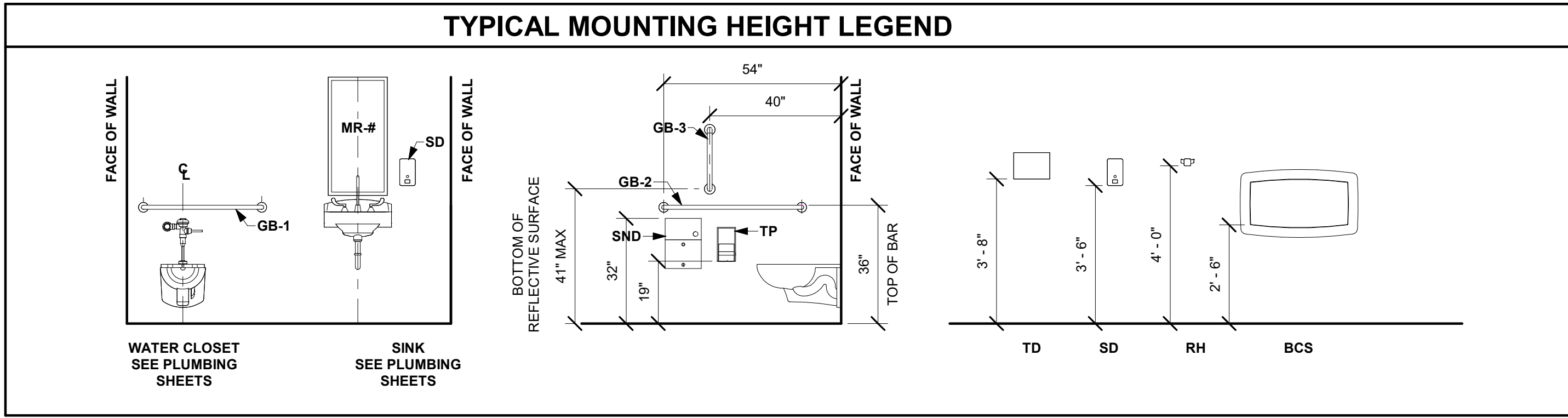
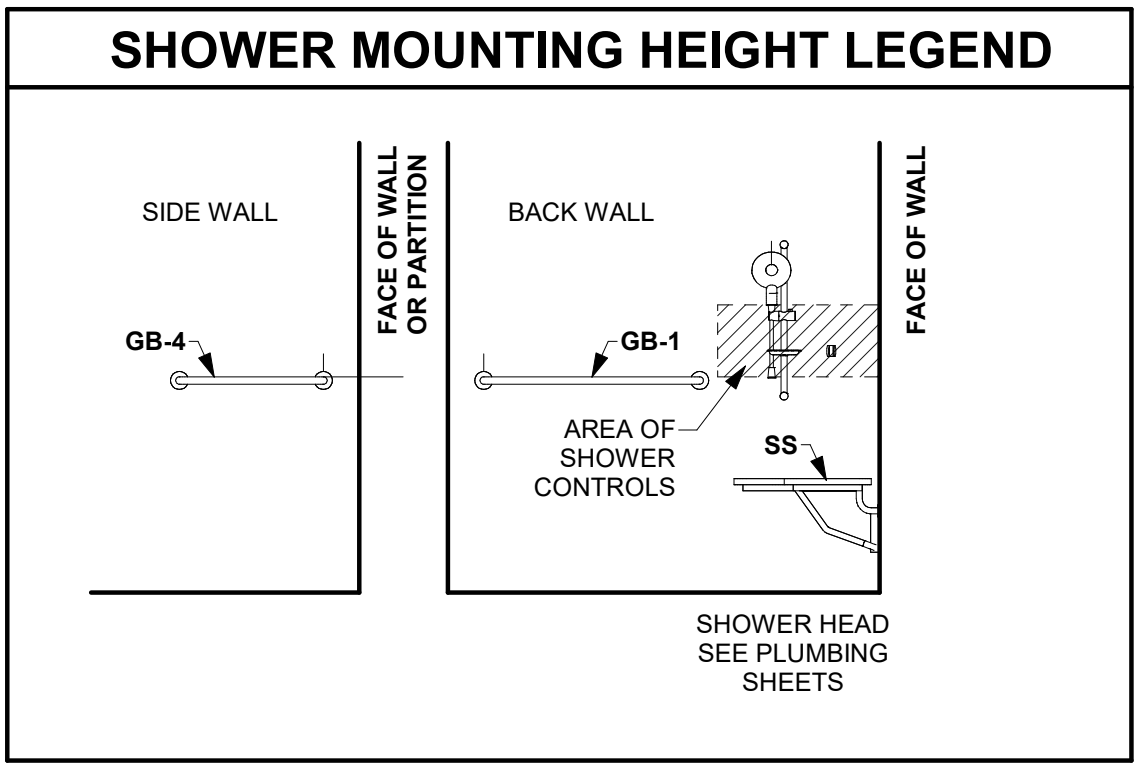
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A-130
INTERIOR ELEVATIONS & FINISH SCHEDULES

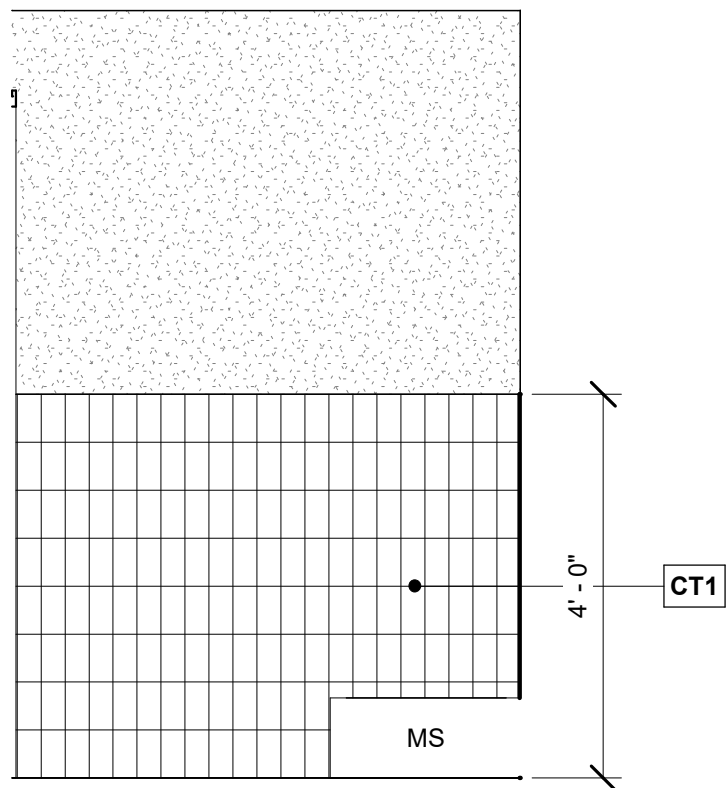
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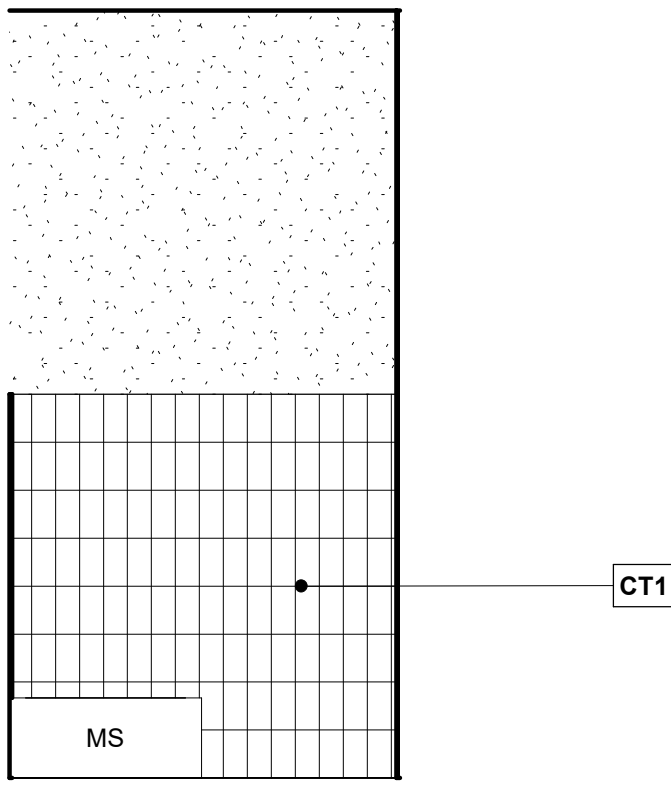
SPECIALTY EQUIPMENT SCHEDULE		
TYPE MARK	SPECIFICATION NUMBER	DESCRIPTION
GB-1	102800	36" HORIZONTAL GRAB BAR
GB-2	102800	42" HORIZONTAL GRAB BAR
GB-3	102800	18" VERTICAL GRAB BAR
MR	102800	SURFACE MOUNTED FRAMED MIRROR, 18" x 3".
MS	224150	MOP SINK
RH	102800	SURFACE MOUNTED DOUBLE ROBE HOOK.
SD	102800	SOAP DISPENSER
SND	102800	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL
TD	102800	PAPER TOWEL DISPENSER
TP-1	102113.19	PLASTIC TOILET COMPARTMENT



CUSTODIAL ELEVATION - EAST

1/2" = 1'-0"

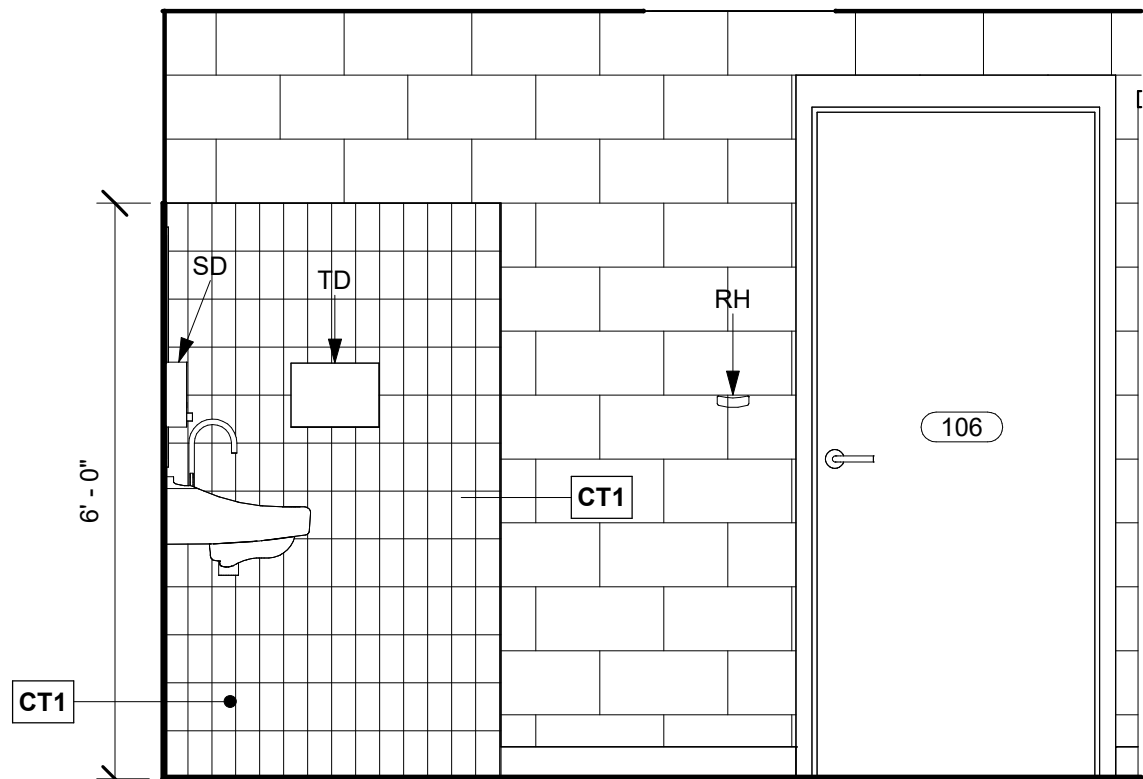
5



CUSTODIAL ELEVATION - SOUTH

1/2" = 1'-0"

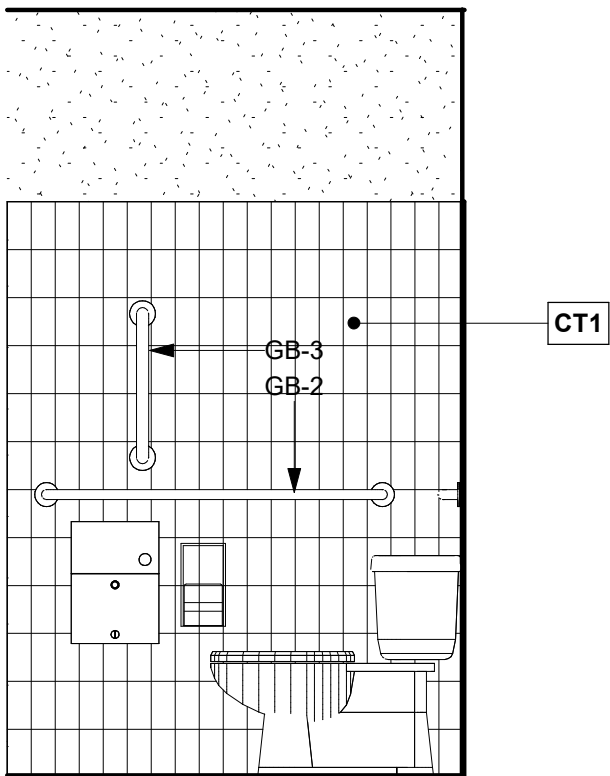
6



TYPICAL RESTROOM ELEVATION
- NORTH WALL

1/2" = 1'-0"

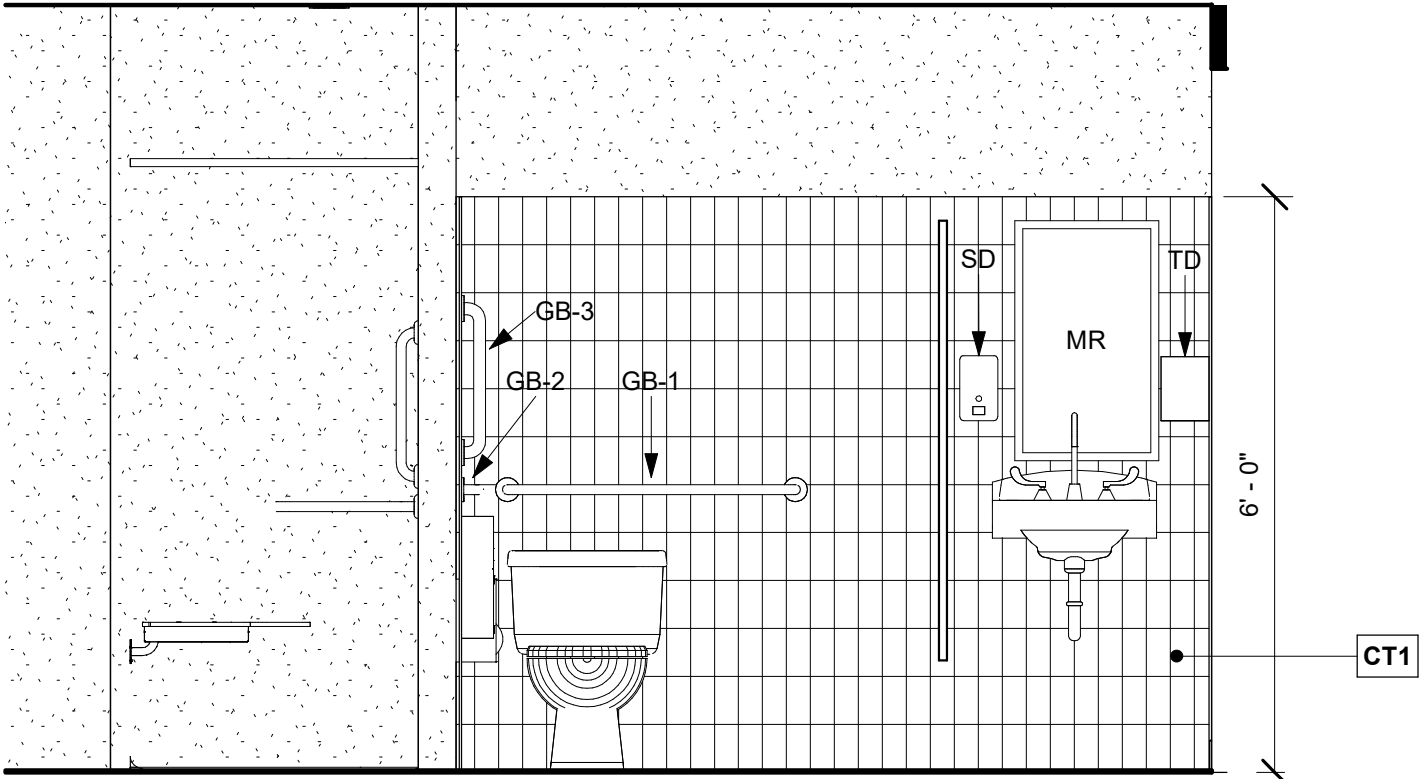
4



TYPICAL RESTROOM ELEVATION
- SIDE WALL

1/2" = 1'-0"

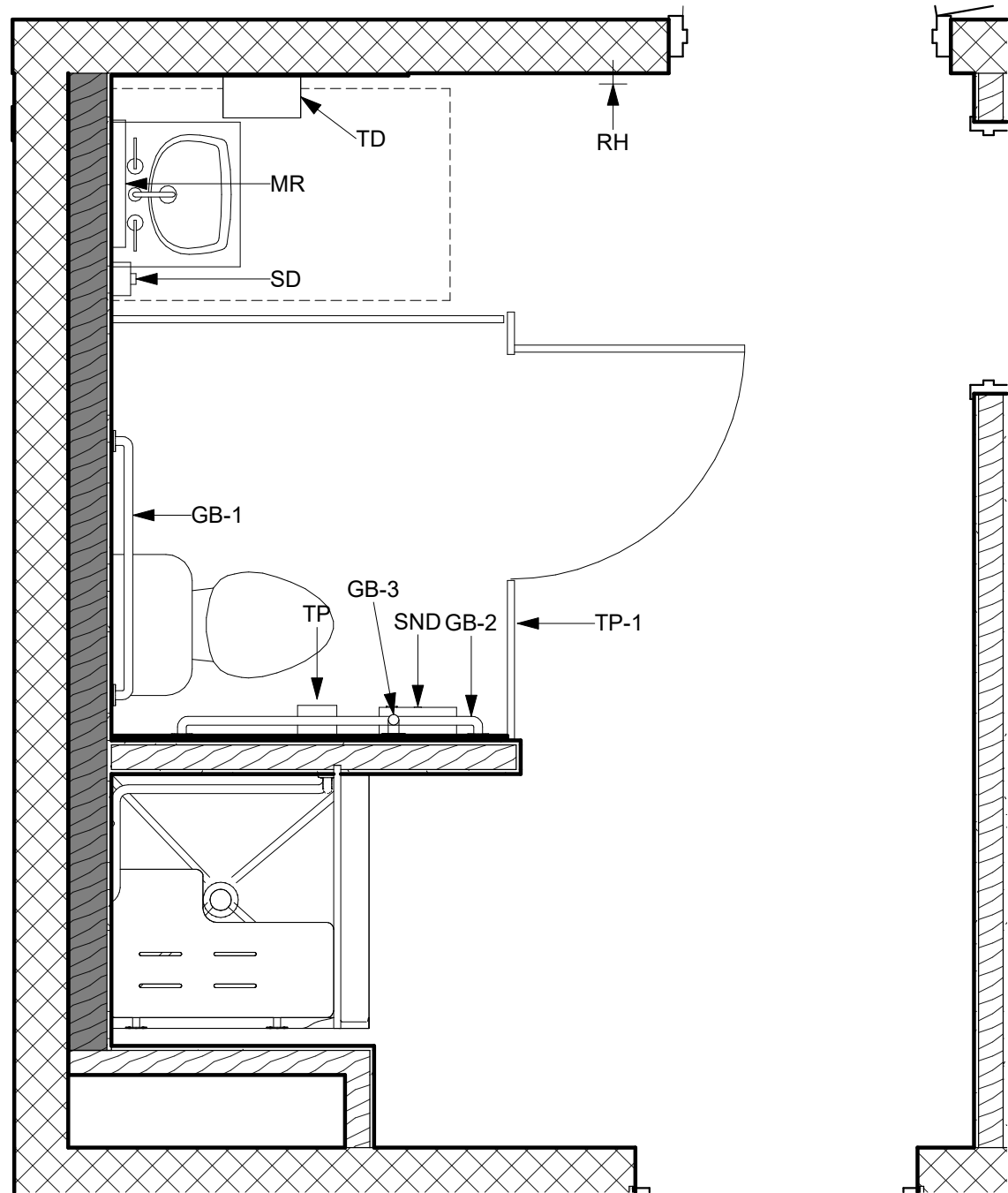
3



TYPICAL RESTROOM ELEVATION
- PLUMBING WALL

1/2" = 1'-0"

2



ENLARGED RESTROOM PLAN

1/2" = 1'-0"

1

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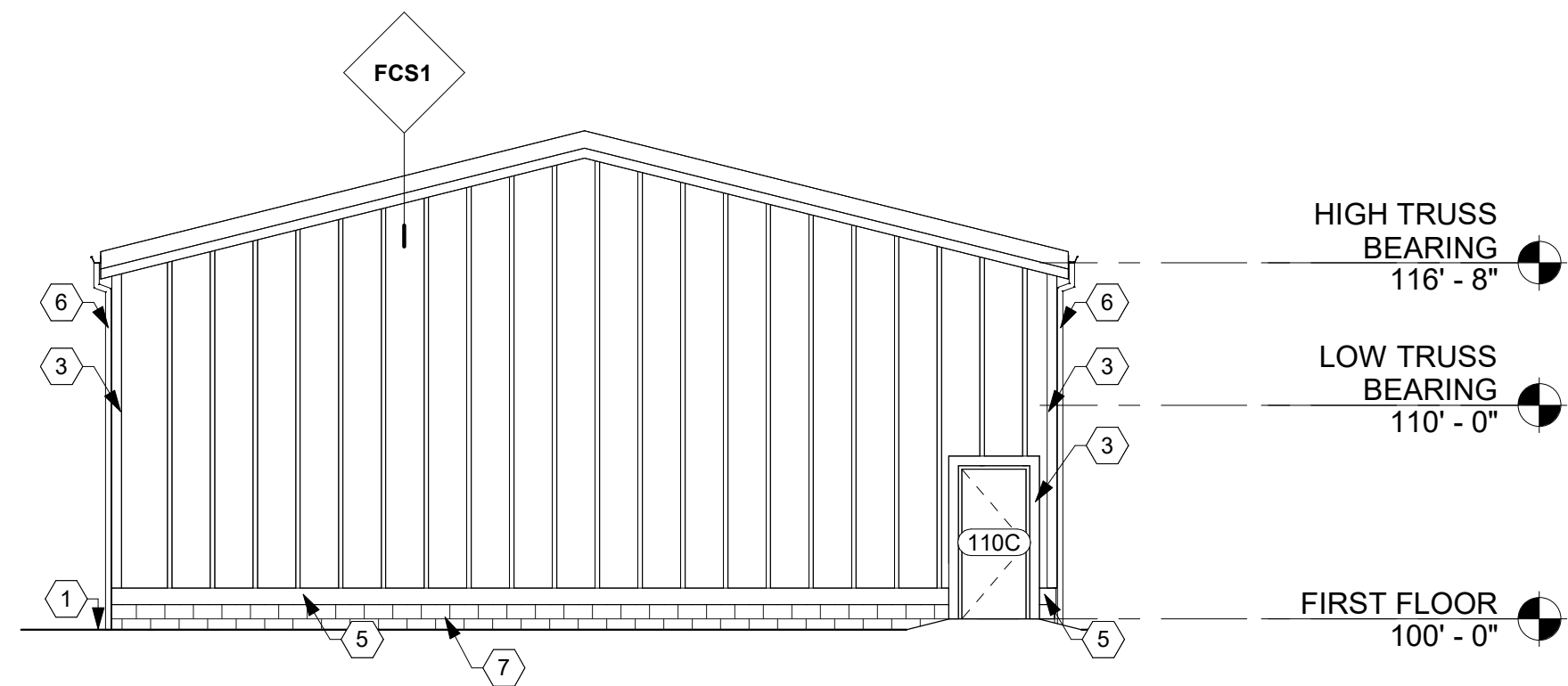
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A-140
RESTROOM PLANS, MOUNTING
HEIGHTS, AND SPECIALTY SCHEDULES

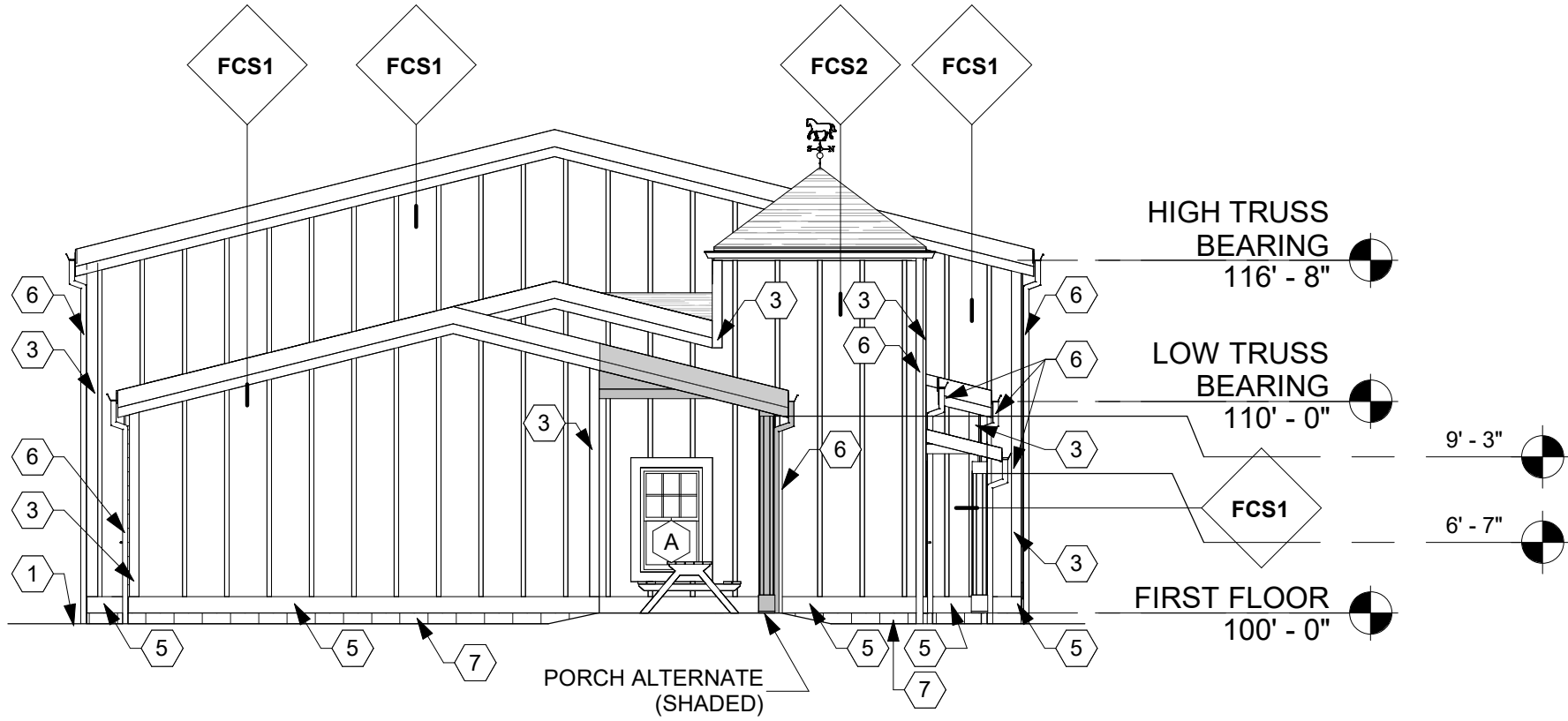
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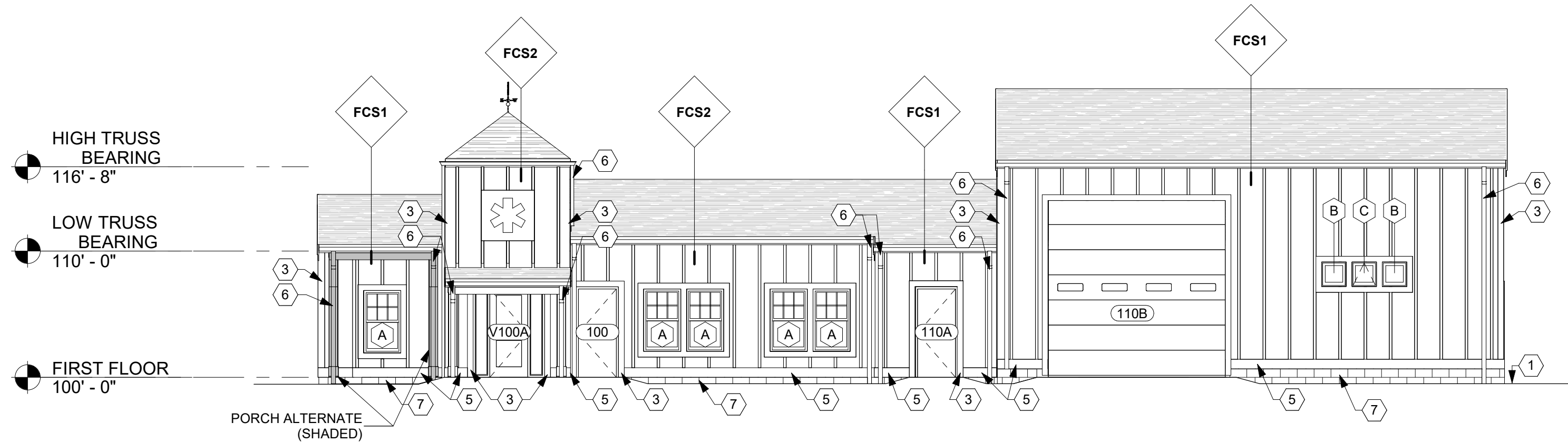
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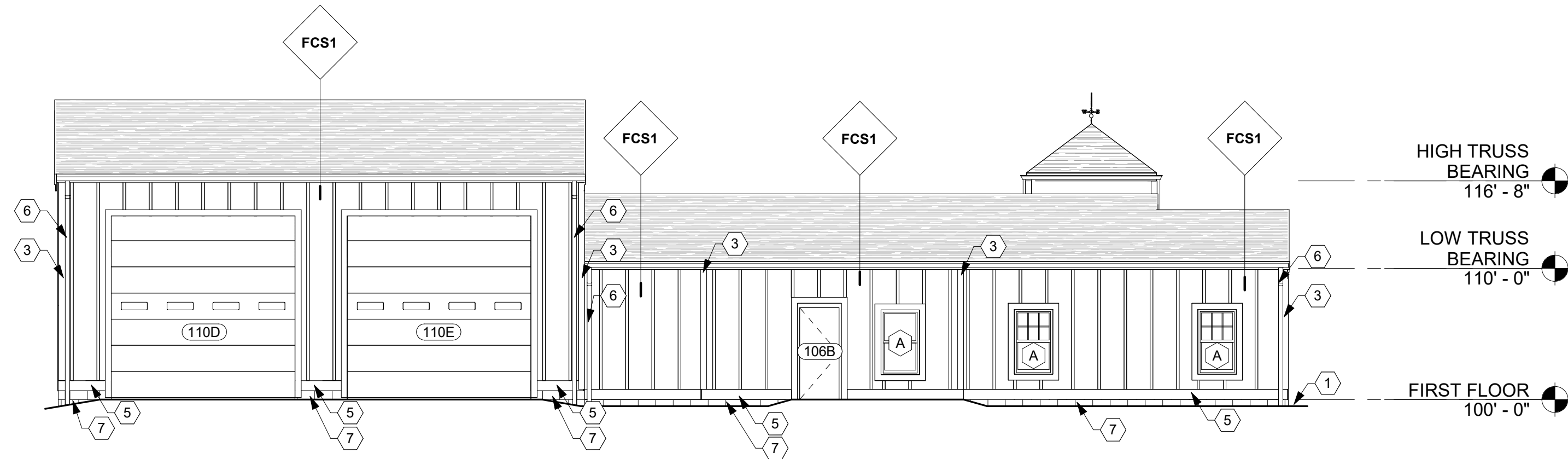
WEST ELEVATION 3
1/8" = 1'-0"



EAST ELEVATION 4
1/8" = 1'-0"



NORTH ELEVATION 1
1/8" = 1'-0"



SOUTH ELEVATION 2
1/8" = 1'-0"

ELEVATION LEGEND	
	FCS1 FIBER CEMENT SIDING - WHITE
	FCS2 FIBER CEMENT SIDING - RED
	AS1 ASPHALT SHINGLES

CODED NOTES - EXTERIOR ELEVATION	
#	DESCRIPTION
1	FINISH GRADE
3	1 X 6 TRIM
5	1 X 10 TRIM
6	4" x 3" NOMINAL RECTANGULAR CORRUGATED METAL DOWNSPOUT
7	CMU FOUNDATION WALL. SEE STRUCTURAL.

WINDOW SCHEDULE		
TYPE MARK	ROUGH HEIGHT	ROUGH WIDTH
A	5' - 0"	3' - 0"
B	2' - 0"	2' - 0"
C	2' - 0"	2' - 0"

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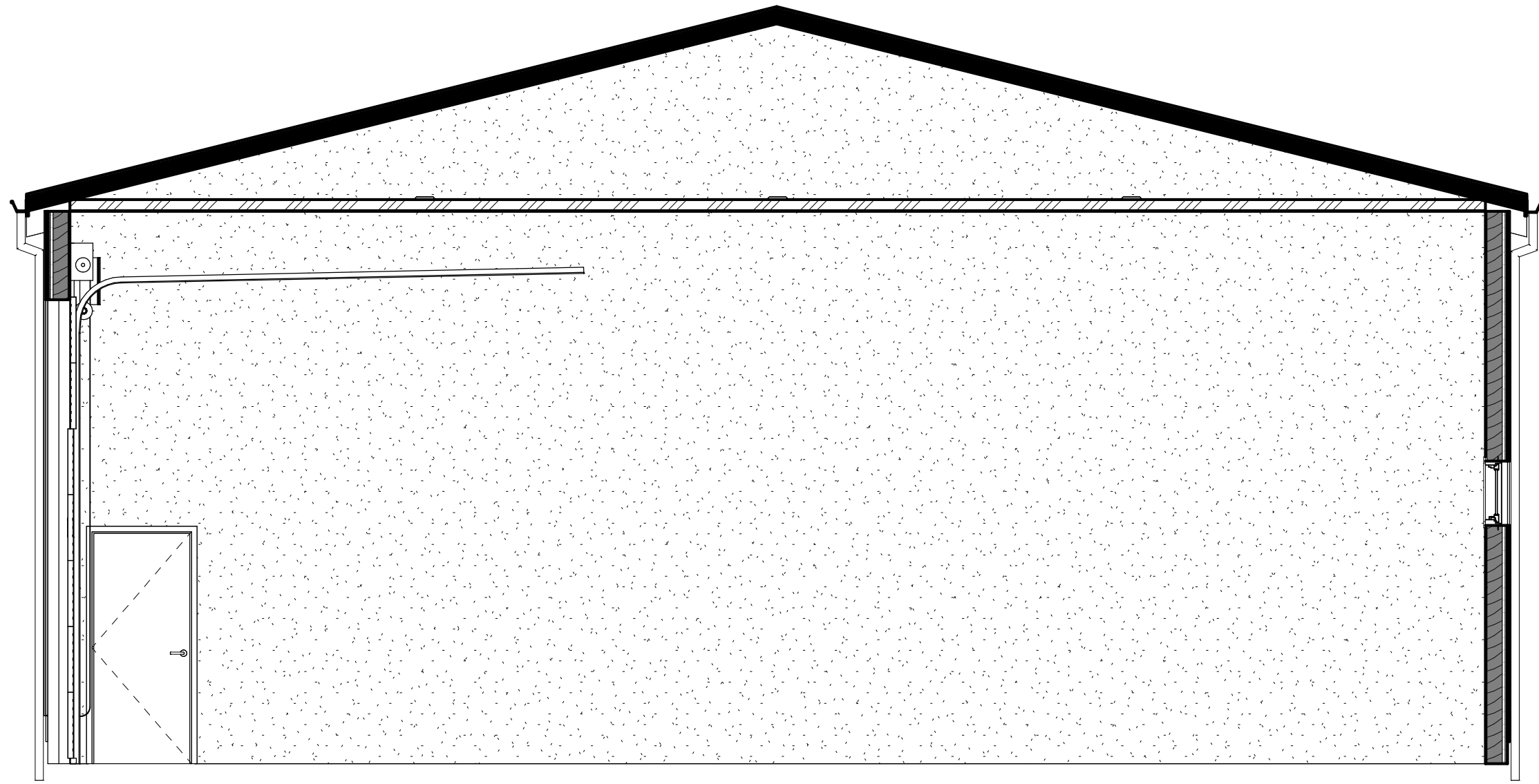
A-200
EXTERIOR ELEVATIONS

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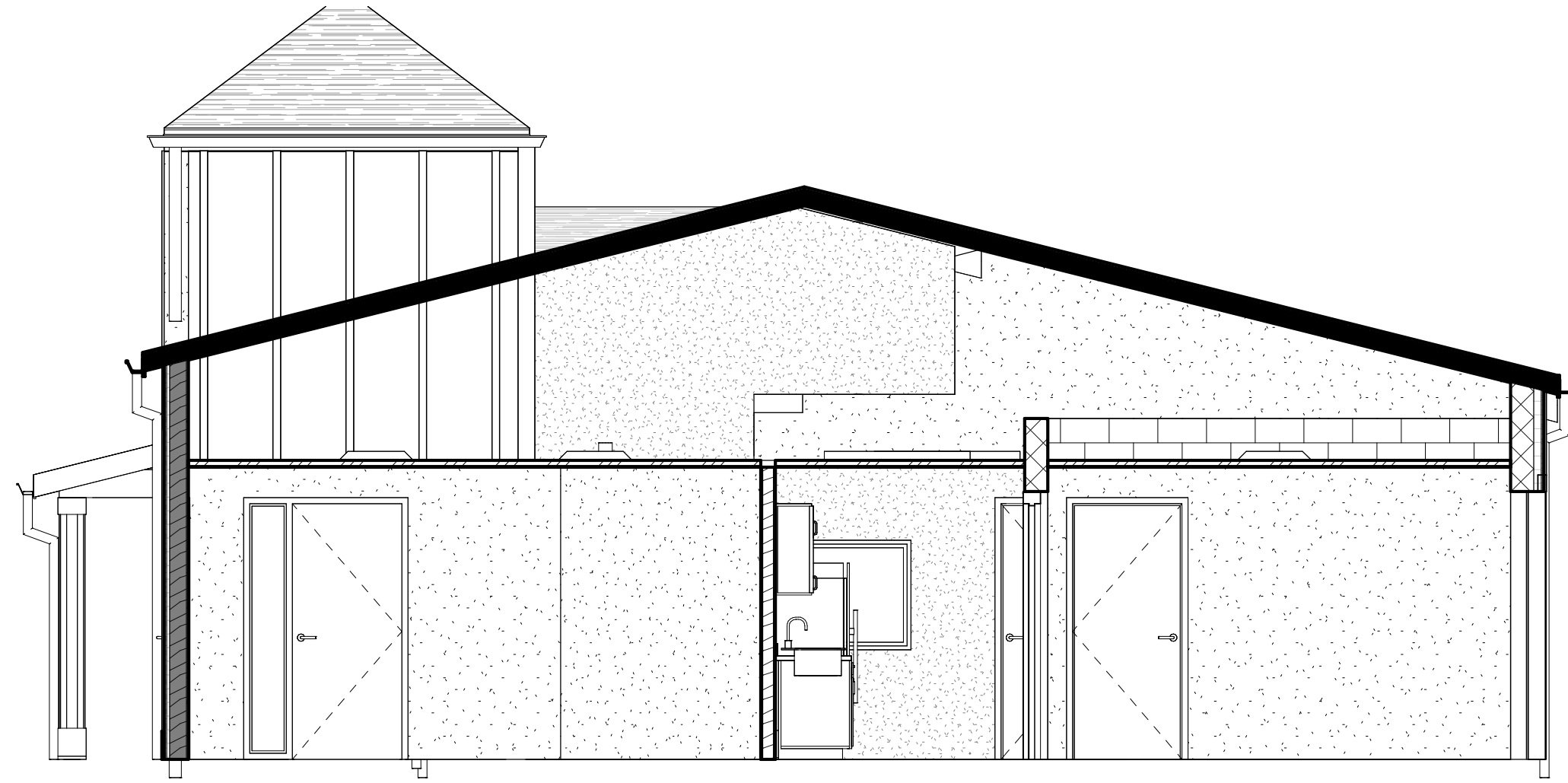
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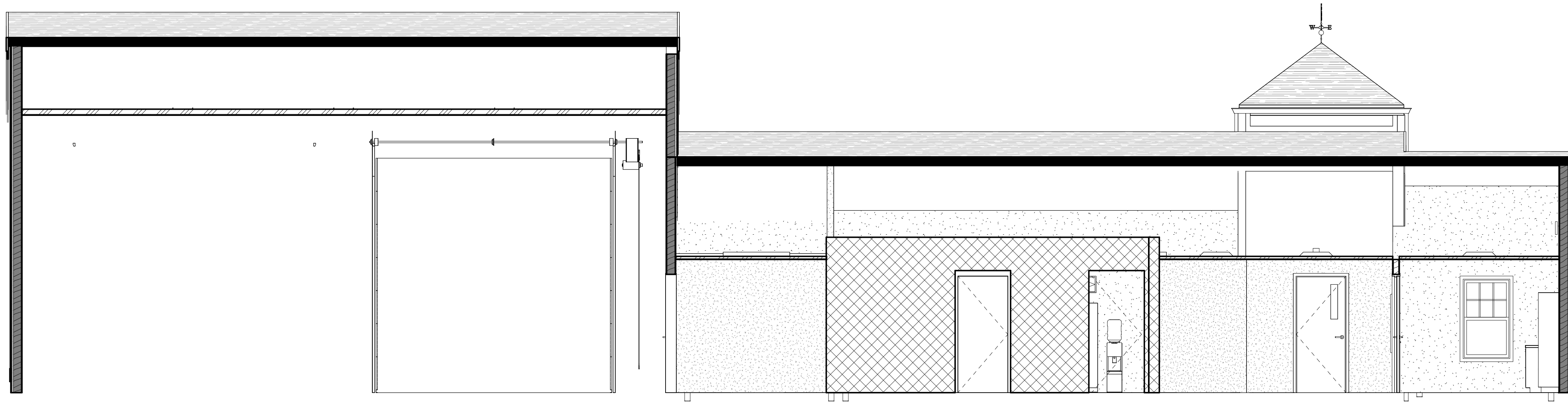
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Section 2
1/4" = 1'-0" 2



Section 3
1/4" = 1'-0" 3



Section 1
1/4" = 1'-0" 1

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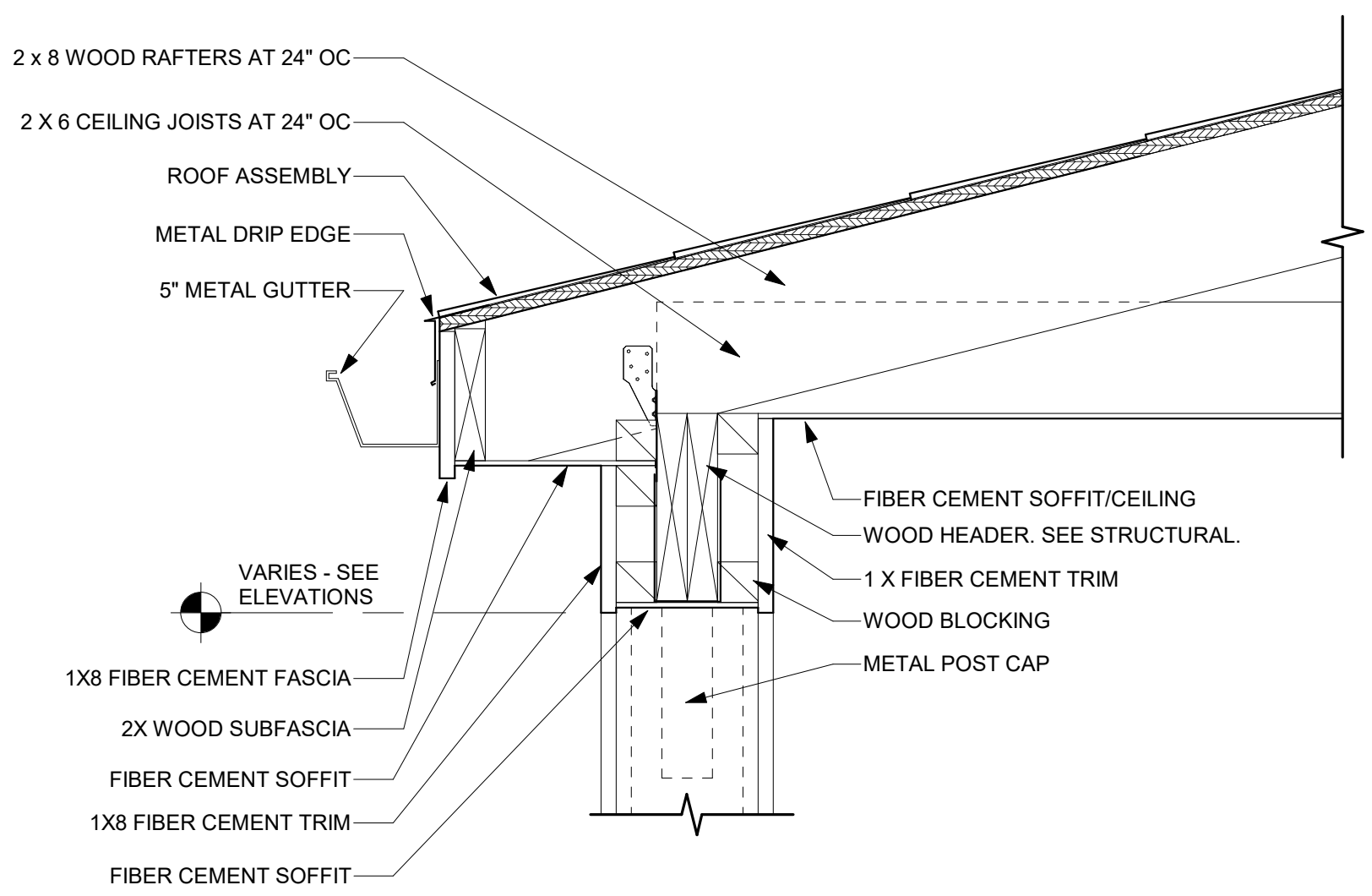
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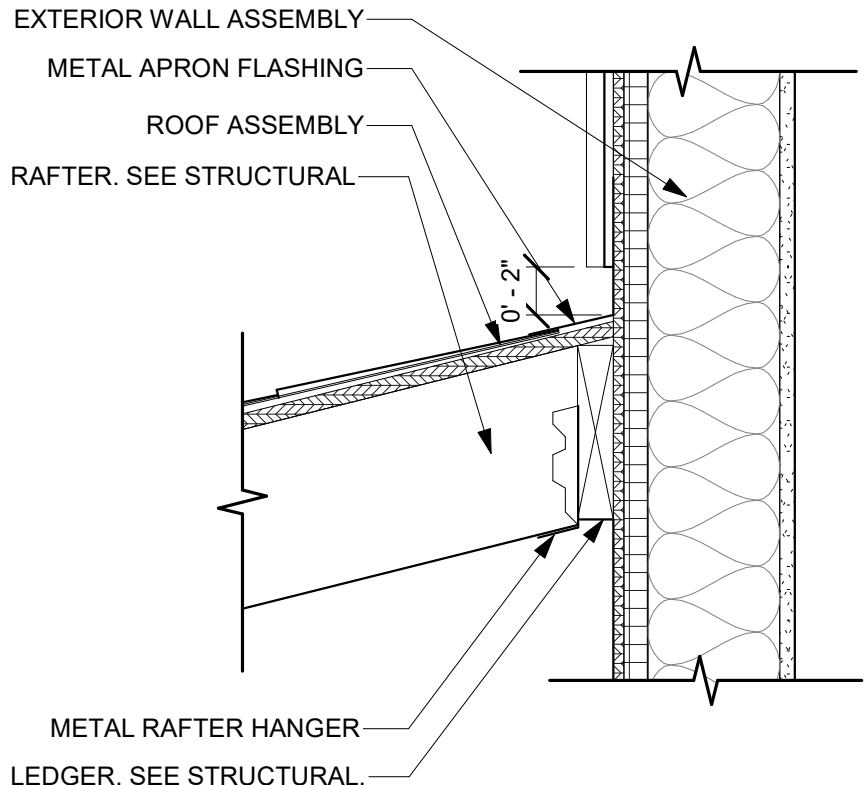
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A-300
BUILDING SECTIONS

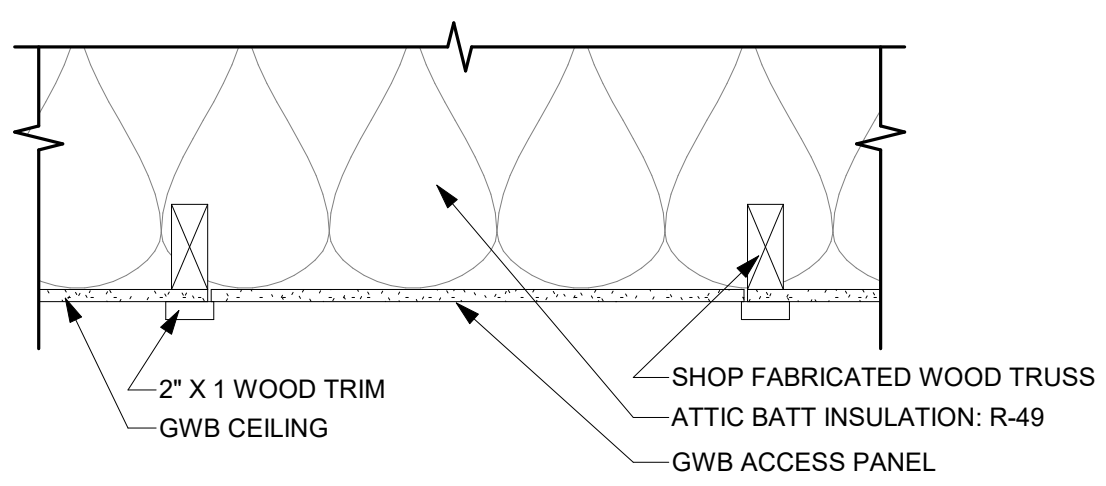
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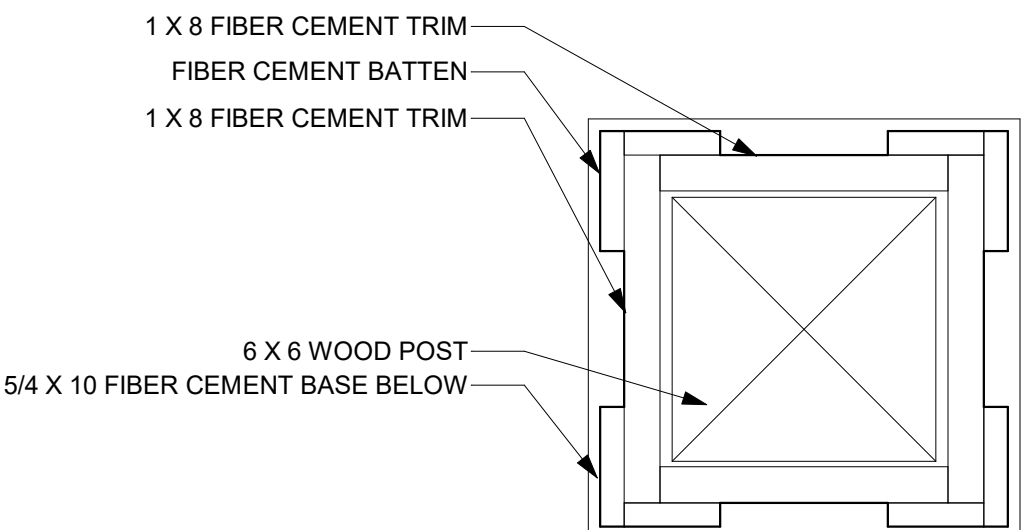
TYPICAL EAVE AT COVERED PORCH
1 1/2" = 1'-0" 8



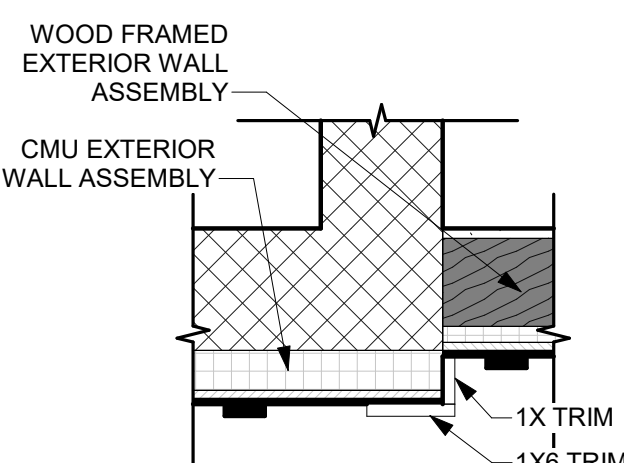
TYPICAL APRON AT PORCH DETAIL
1 1/2" = 1'-0" 9



ATTIC ACCESS PANEL DETAIL
1 1/2" = 1'-0" 11

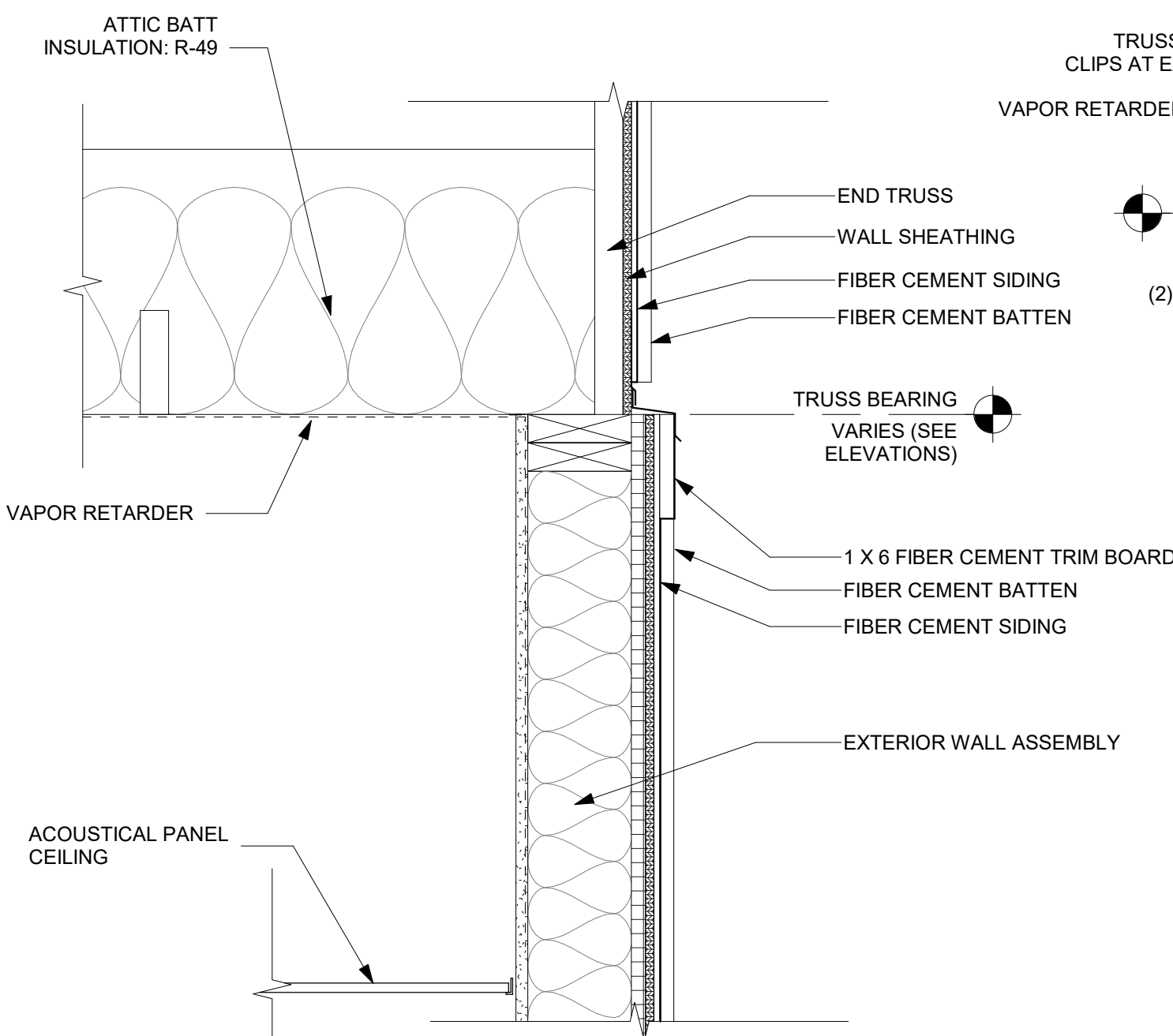


PORCH COLUMN PLAN DETAIL
3" = 1'-0" 5

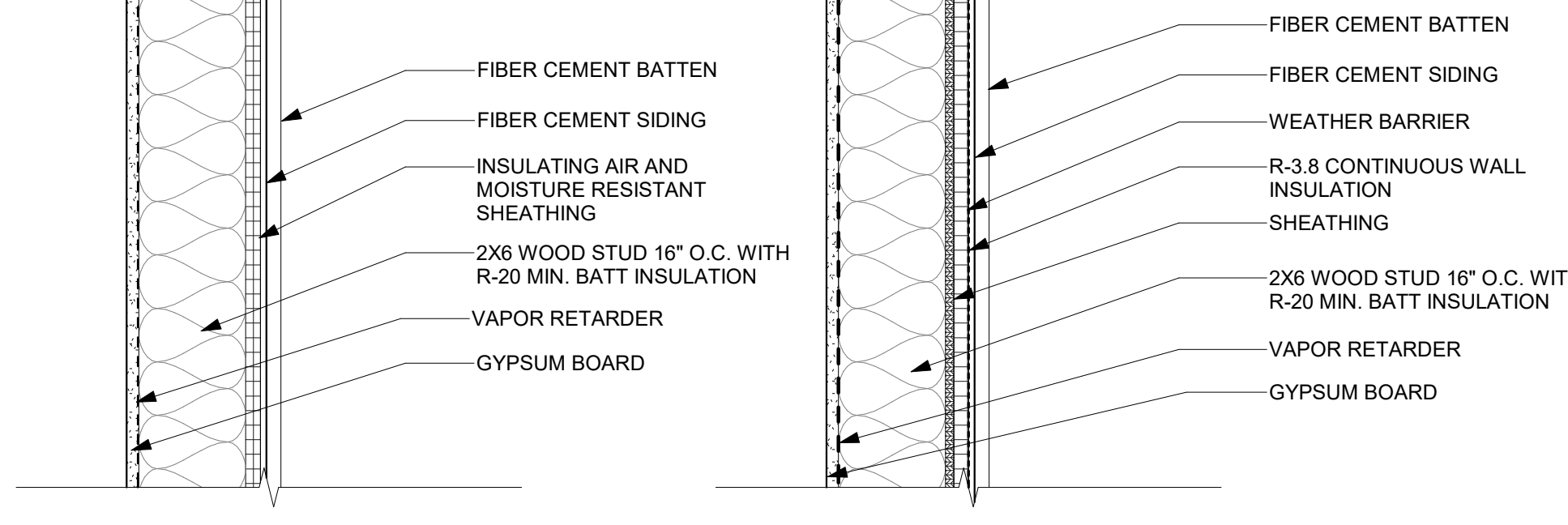
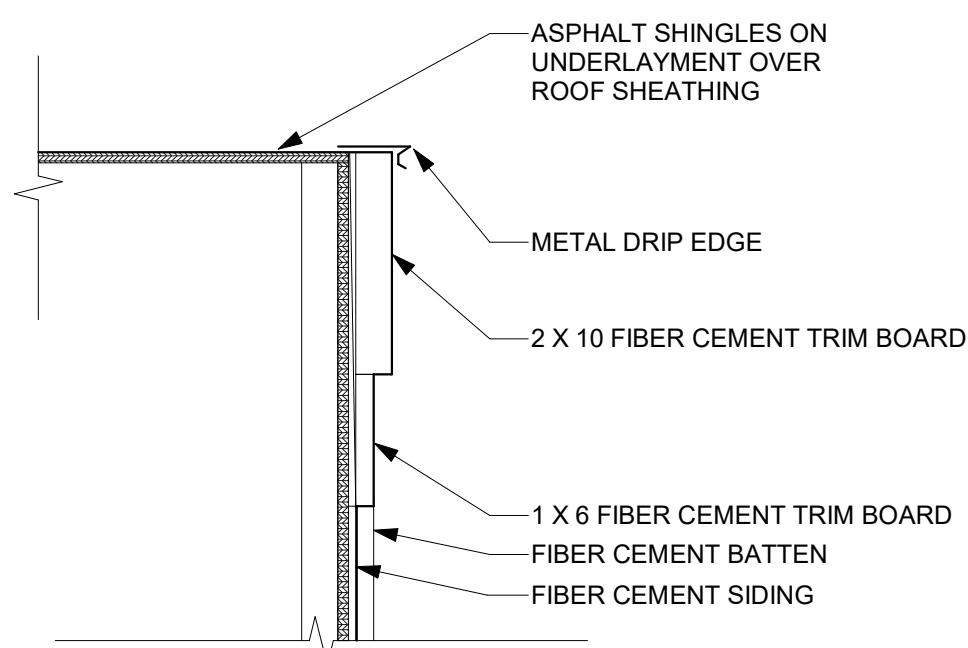


PLAN DETAIL AT STORM SHELTER CORNER
1" = 1'-0" 12

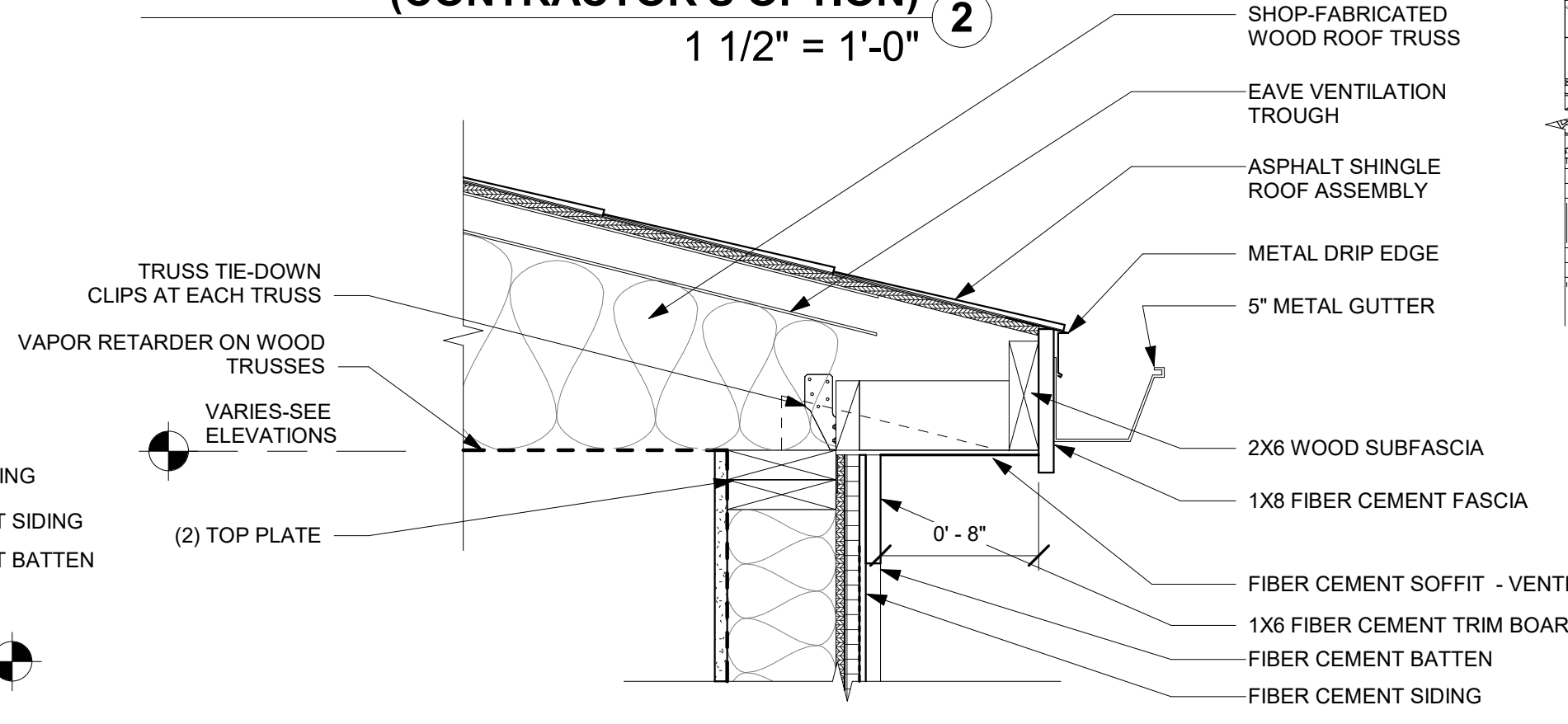
GABLE END DETAIL AT RIDGE
1 1/2" = 1'-0" 6



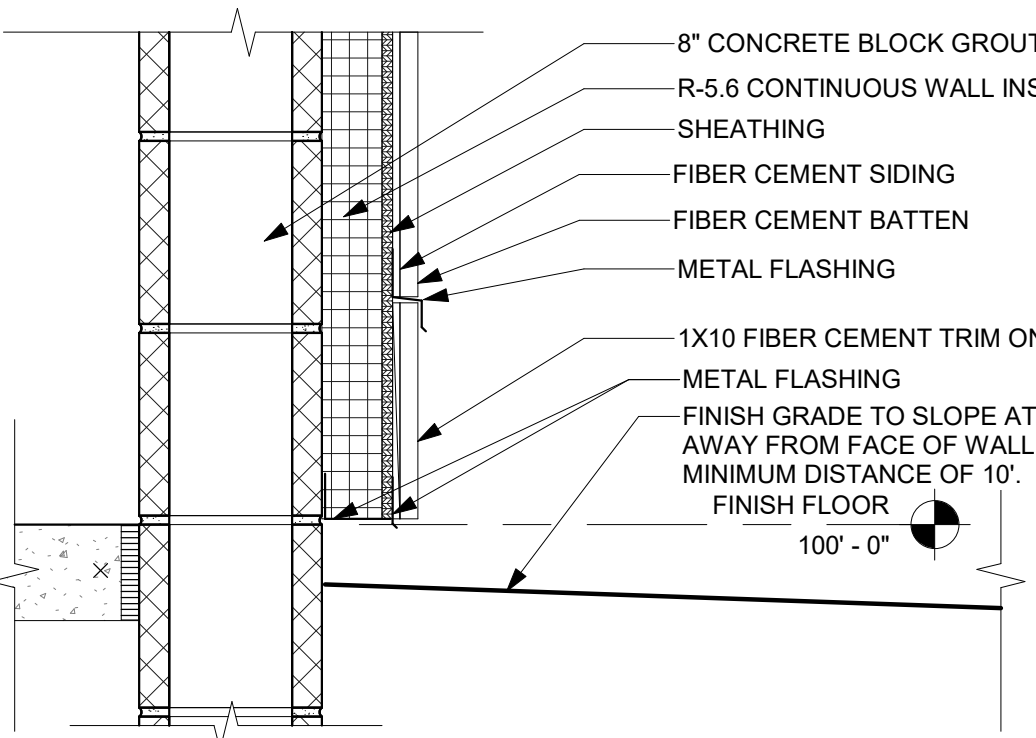
GABLE END DETAIL AT TRUSS BEARING
1 1/2" = 1'-0" 7



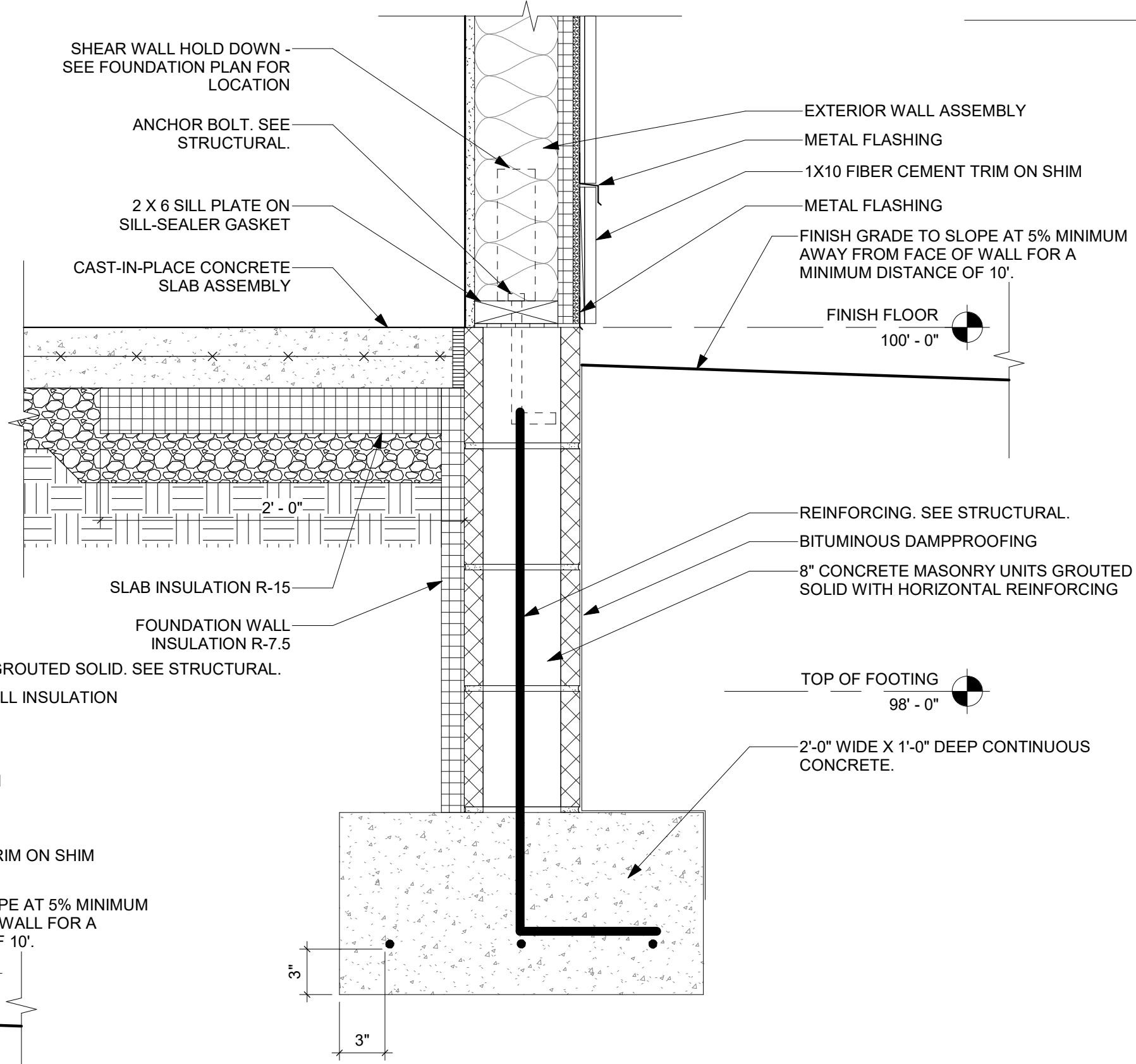
TYPICAL EXTERIOR WOOD FRAMED WALL ASSEMBLY (CONTRACTOR'S OPTION)
1 1/2" = 1'-0" 2



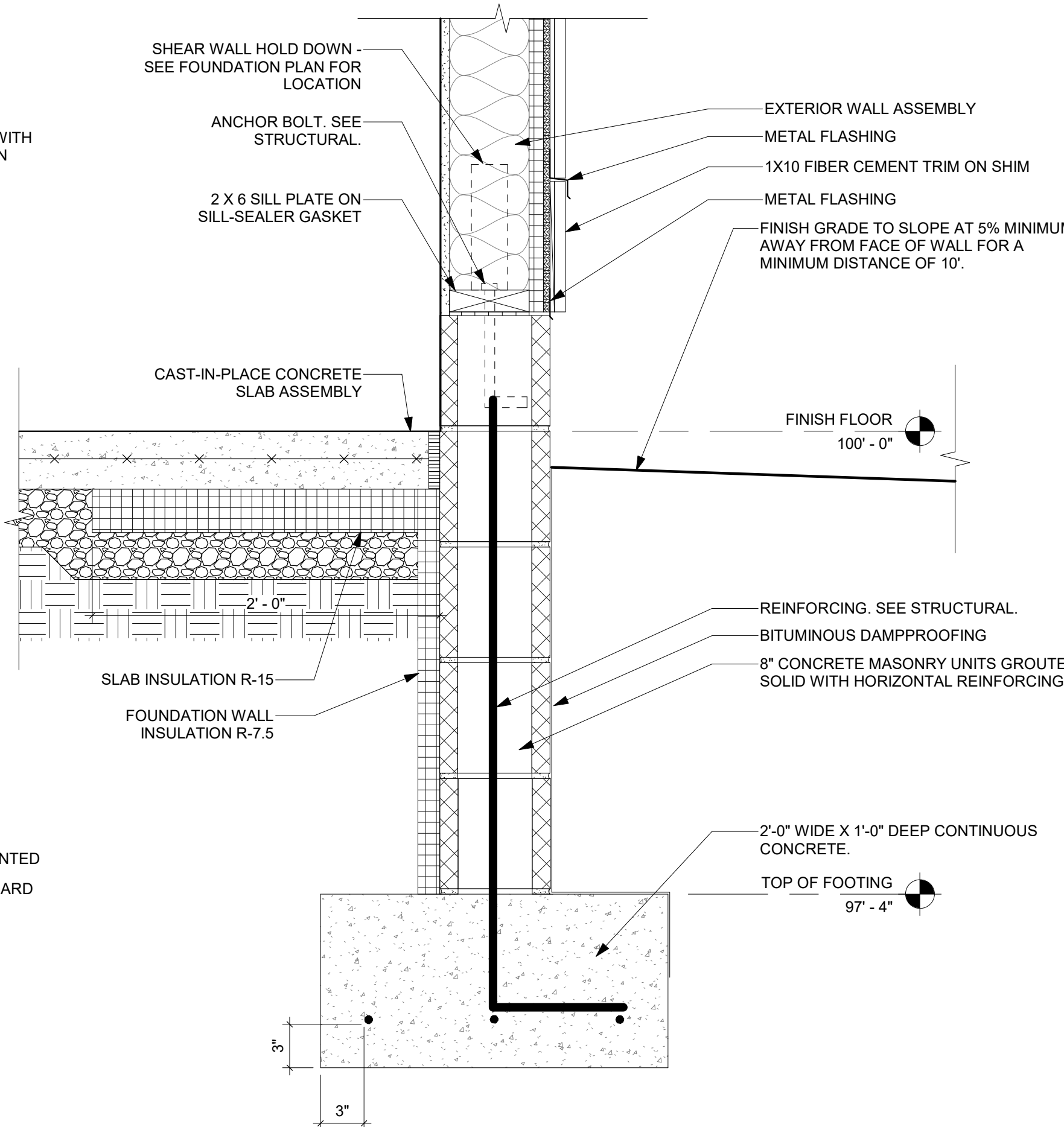
TYPICAL EAVE AT TRUSS BEARING
1 1/2" = 1'-0" 1



TYPICAL EXTERIOR WALL ASSEMBLY AT STORM SHELTER
1 1/2" = 1'-0" 4



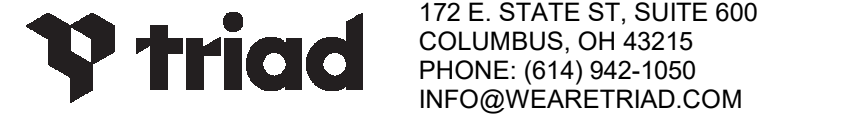
TYPICAL FOOTING/FOUNDATION WALL DETAIL
1 1/2" = 1'-0" 10



TYPICAL FOOTING/FOUNDATION WALL DETAIL AT GARAGE
1 1/2" = 1'-0" 3

LIFE FIRST AMBULANCE DISTRICT
LIFE FIRST AMBULANCE STATION

4585 STATE ROUTE 98
SULPHUR SPRINGS, OH 44881



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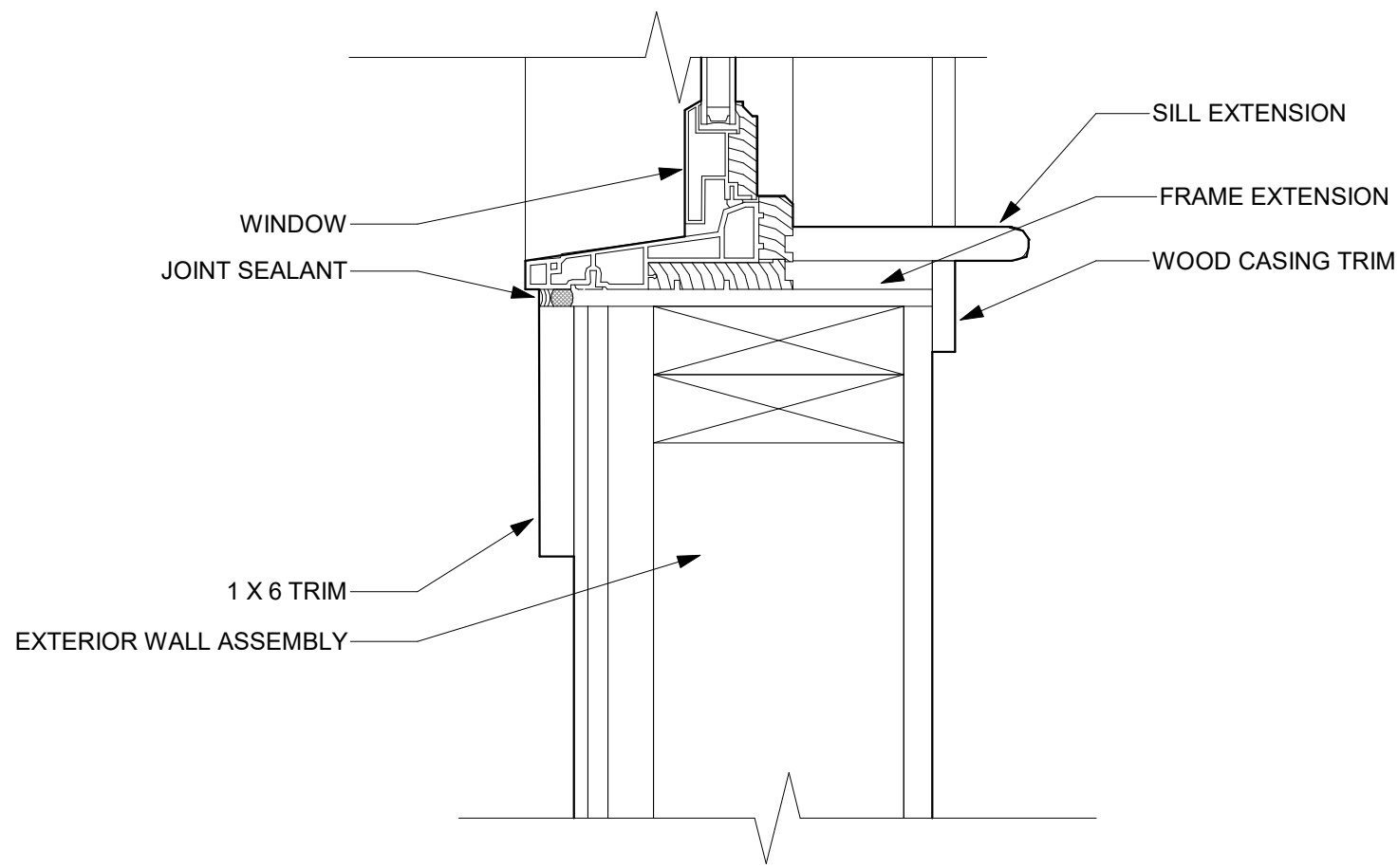
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A-301
SECTIONS AND DETAILS

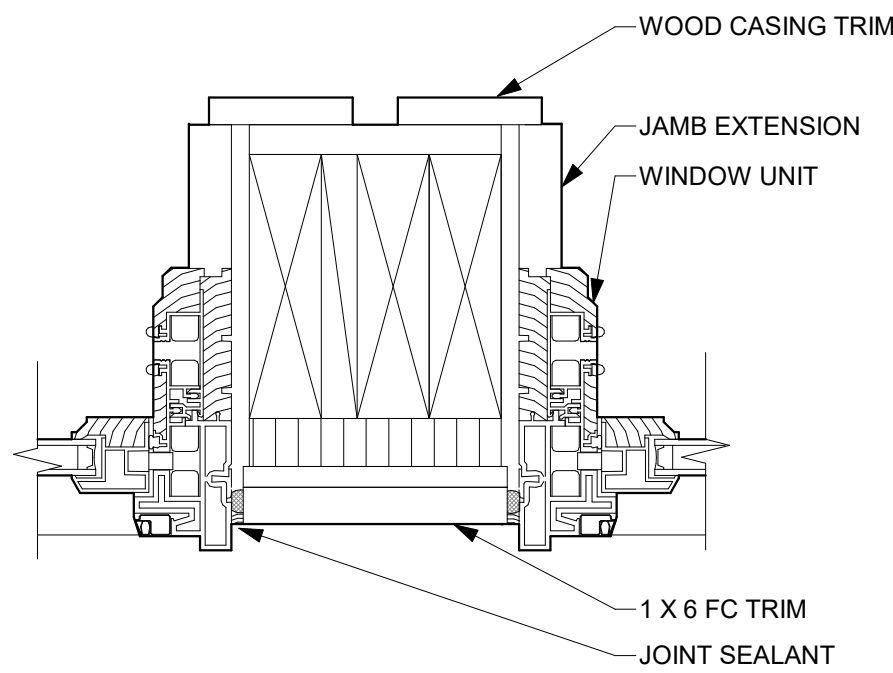
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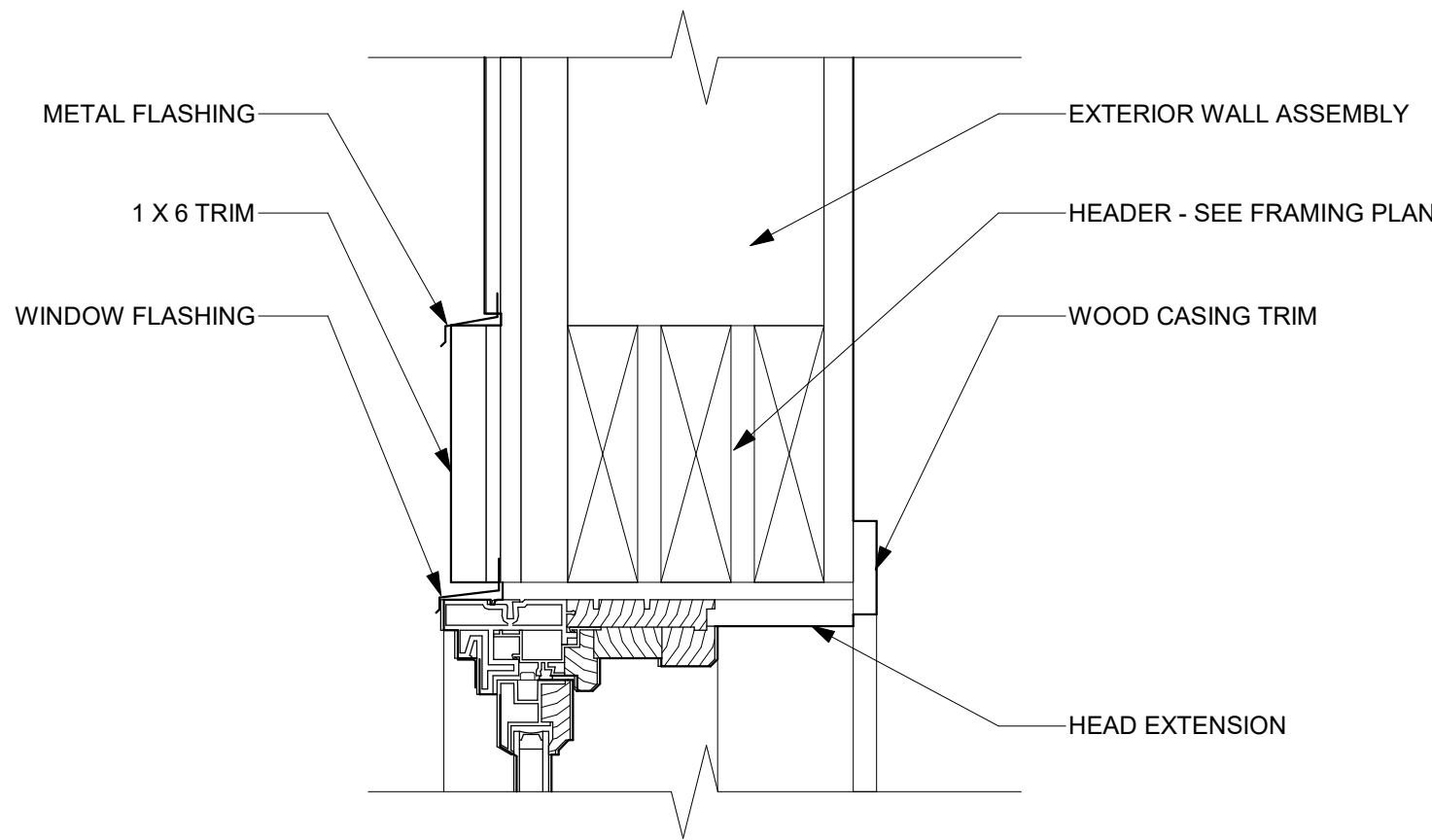
2613 - LIFE FIRST AMBULANCE STATION



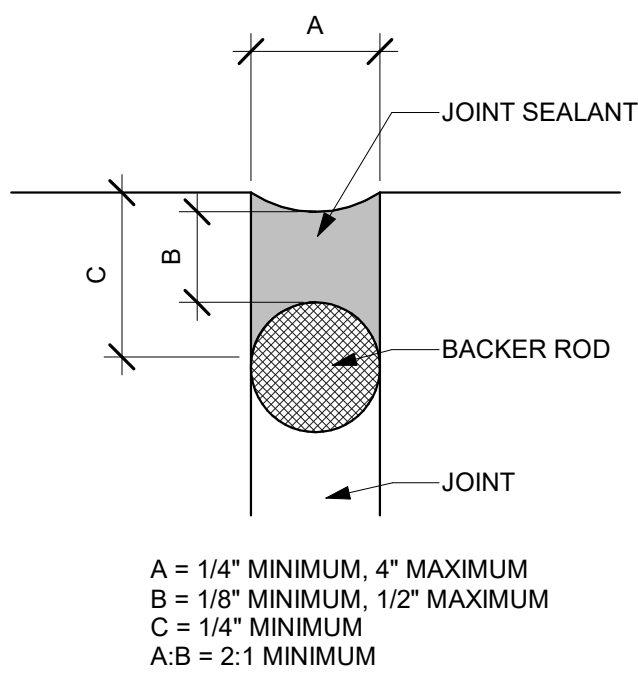
WINDOW SILL DETAIL 4
3" = 1'-0"



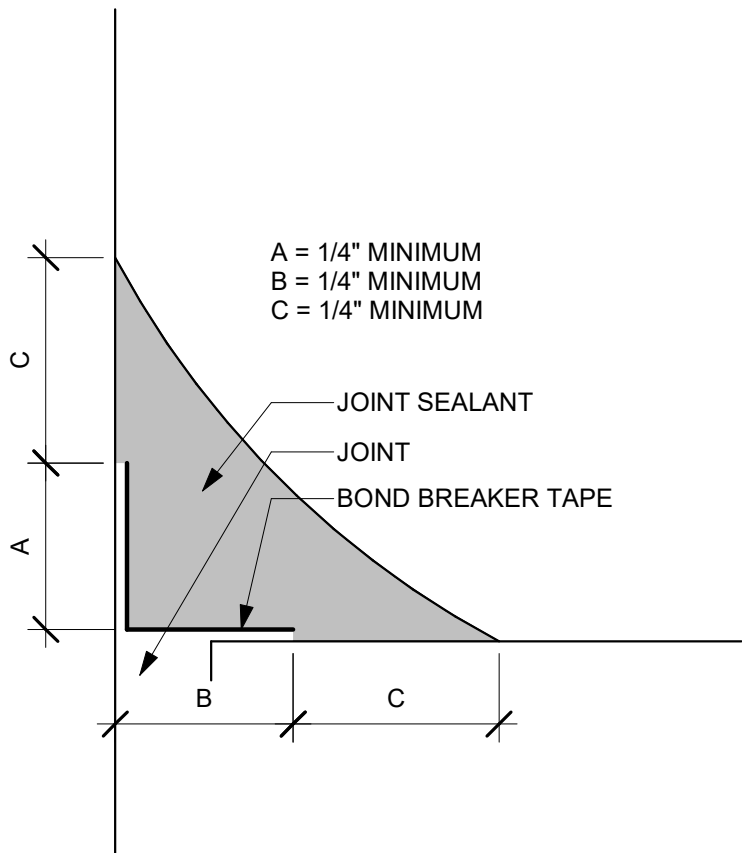
WINDOW JAMB DETAIL 5
3" = 1'-0"



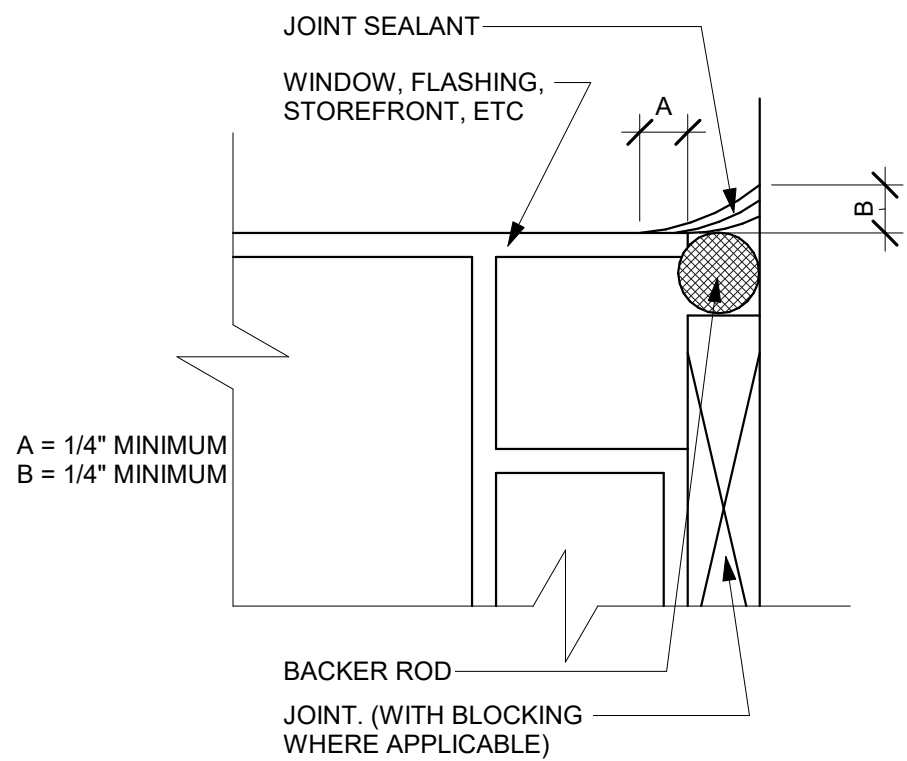
WINDOW HEAD DETAIL 6
3" = 1'-0"



TYPICAL BUTT JOINT SEALANT DETAIL 3
12" = 1'-0"



TYPICAL FILLET JOINT SILICONE JOINT SEALANT DETAIL 2
12" = 1'-0"



TYPICAL FILLET BUTT JOINT SILICONE DETAIL 1
12" = 1'-0"

LIFE FIRST AMBULANCE DISTRICT

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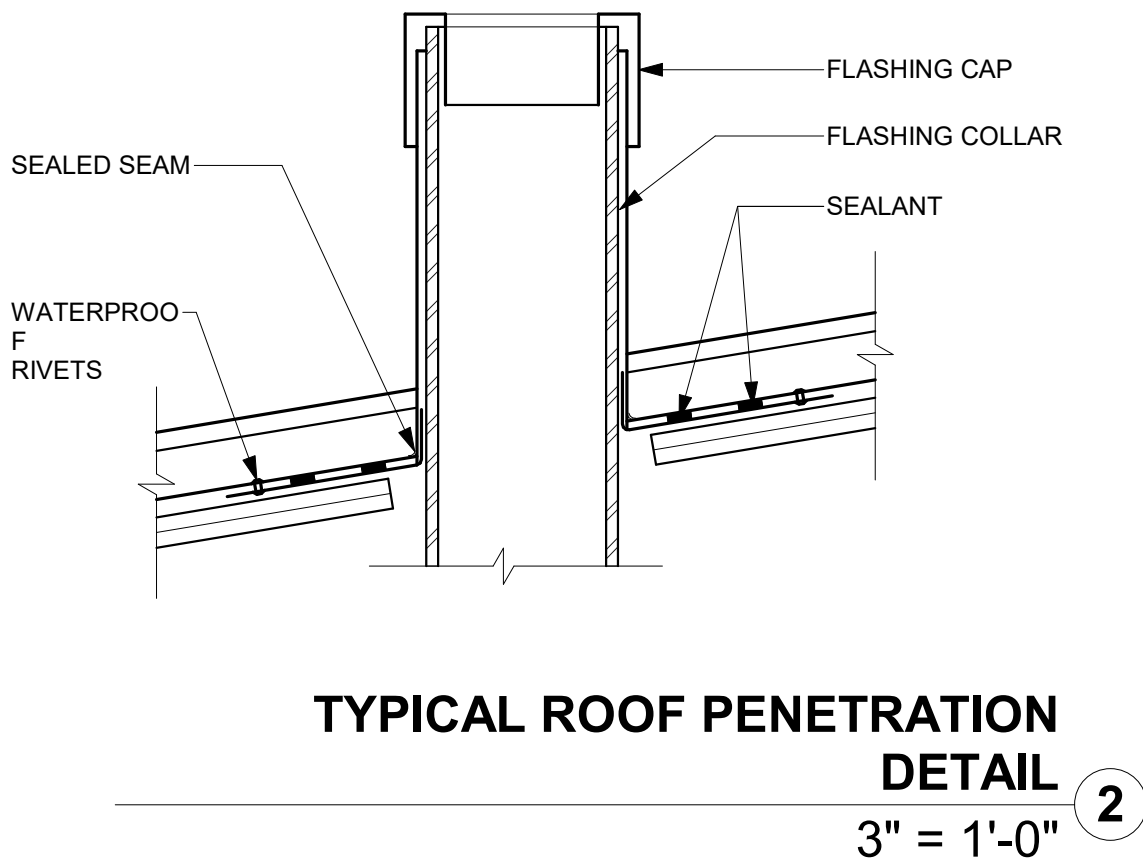
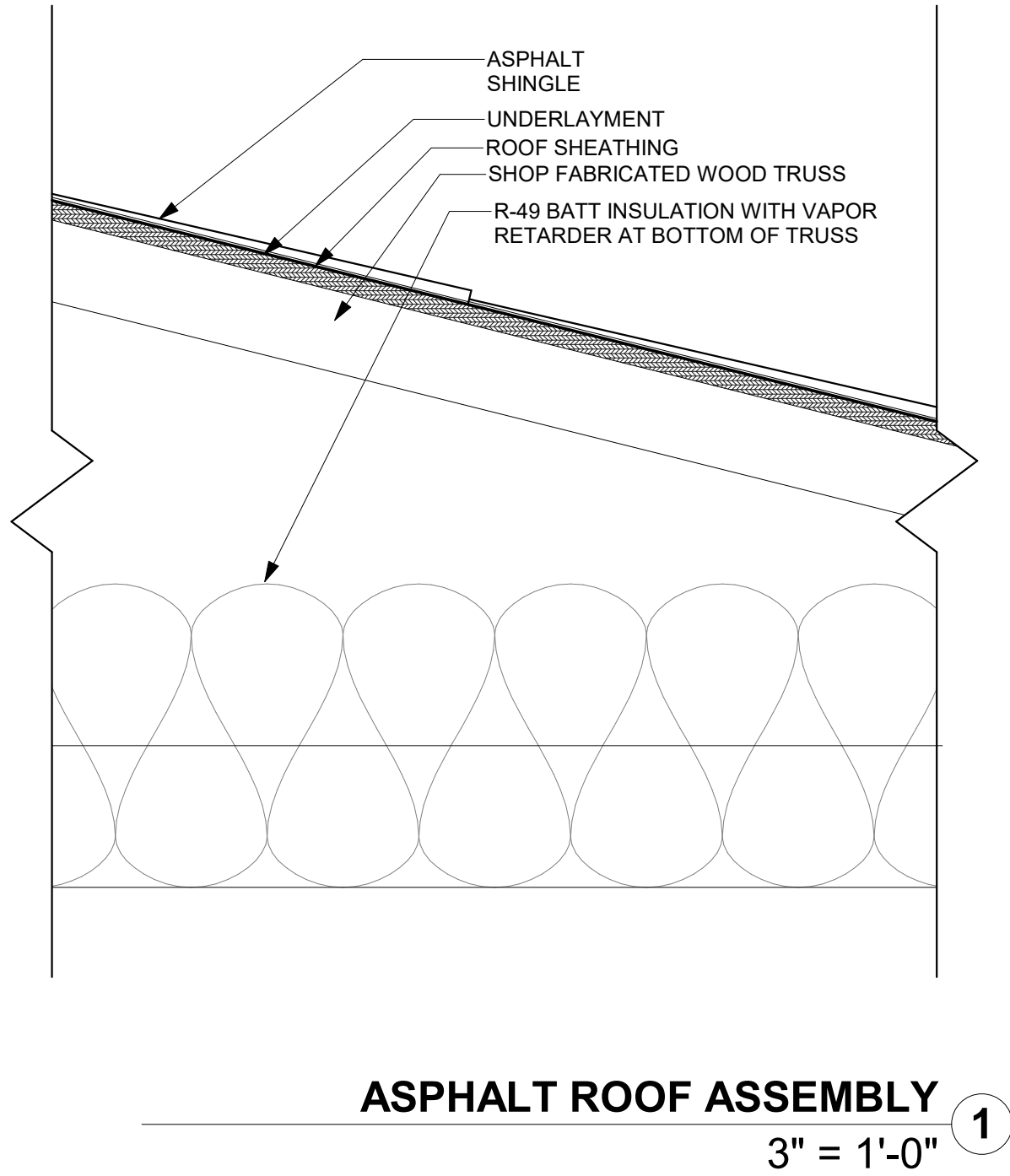
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A-302
SECTIONS AND DETAILS



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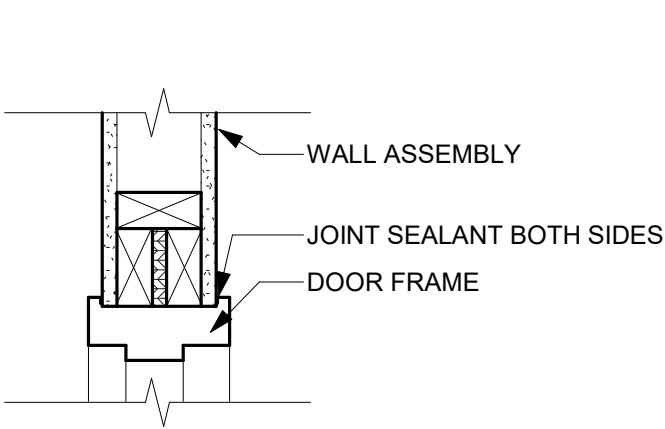
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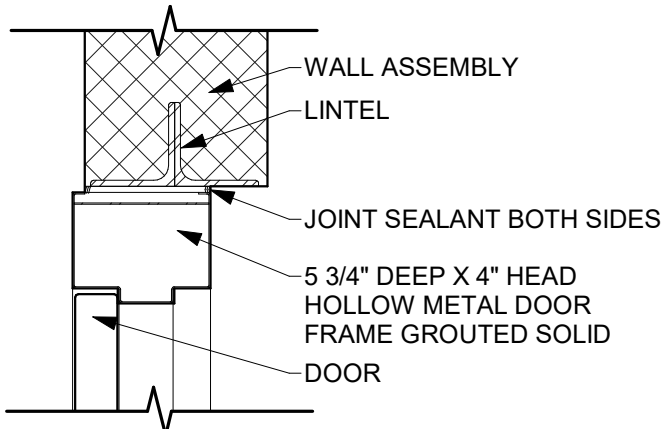
A-500
ROOF DETAILS

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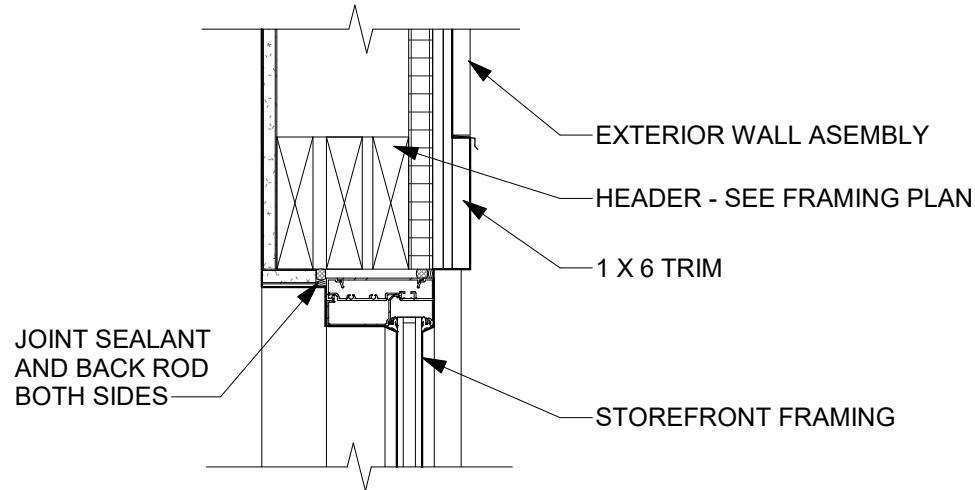
DOOR HARDWARE LEGEND					
SET 1 (DOOR 110A ONLY) 3 HINGES THRESHOLD WEATHERSEAL CLOSER DIGITAL KEYPAD LOCK CYLINDER	SET 2 3 HINGES ENTRANCE LOCKSET WALL STOP	SET 4 1 CONTINUOUS HINGE PRIVACY LOCKSET WALL STOP CLOSER (180 DEGREES)	SET 6 3 HINGES PASSAGE LOCKSET WALL STOP CLOSER	SET 8 3 HINGES STOREROOM LOCKSET OVERHEAD STOP	SET 11 3 HINGES ENTRANCE LOCKSET CYLINDER THRESHOLD CLOSER OVERHEAD STOP WEATHERSEAL AUTOMATIC DOOR BOTTOM FOR DOOR 106B ONLY
SET 1 (DOOR 100 AND 110C) SAME AS SET 1 EXCEPT ENTRANCE LOCKSET IN LIEU OF DIGITAL ENTRY KEYPAD	SET 2A 3 HINGES ENTRANCE LOCKSET WALL STOP CLOSER	SET 5 1 CONTINUOUS HINGE PRIVACY LOCKSET WALL STOP CLOSER (180 DEGREES)	SET 7 3 HINGES PRIVACY LOCKSET CLOSER WALL STOP	SET 9 3 HINGES ENTRANCE LOCKSET CLOSER WITH OVERHEAD STOP	SET 12 3 HINGES ENTRANCE LOCKSET CLOSER OVERHEAD STOP
	SET 3 3 HINGES STOREROOM LOCKSET WALL STOP CLOSER			SET 10 HARDWARE SUPPLIED BY DOOR SUPPLIER	SET 13 3 HINGES ENTRANCE LOCKSET CLOSER OVERHEAD STOP



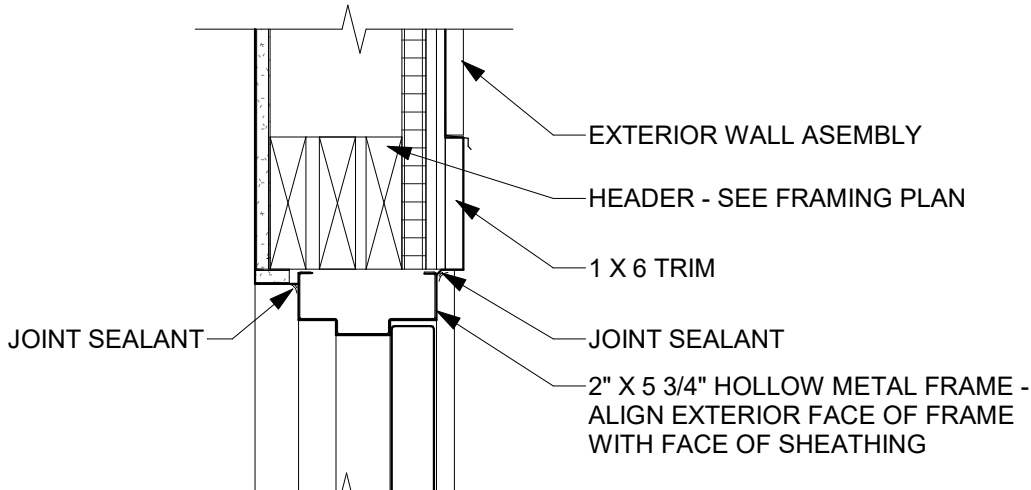
TYPICAL HOLLOW METAL HEAD
DETAIL IN INTERIOR FRAMED WALL ②
1 1/2" = 1'-0"



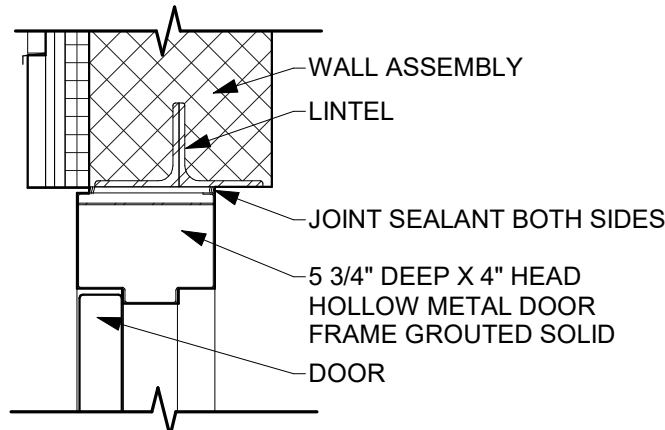
TYPICAL HOLLOW METAL HEAD
DETAIL IN INTERIOR MASONRY WALL ⑨
1 1/2" = 1'-0"



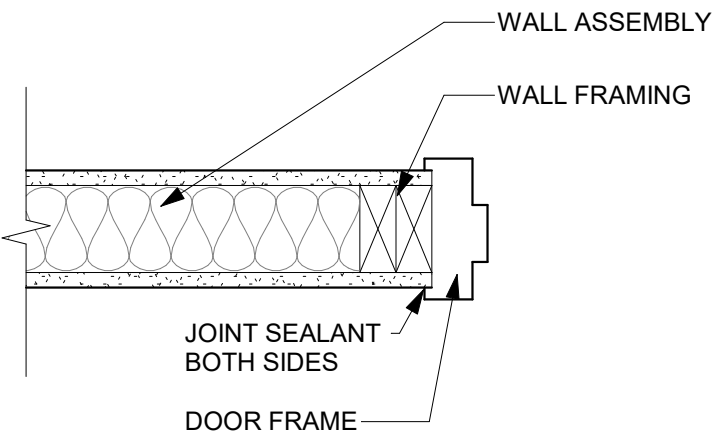
TYPICAL STOREFRONT HEAD
DETAIL IN EXTERIOR FRAMED WALL ⑦
1 1/2" = 1'-0"



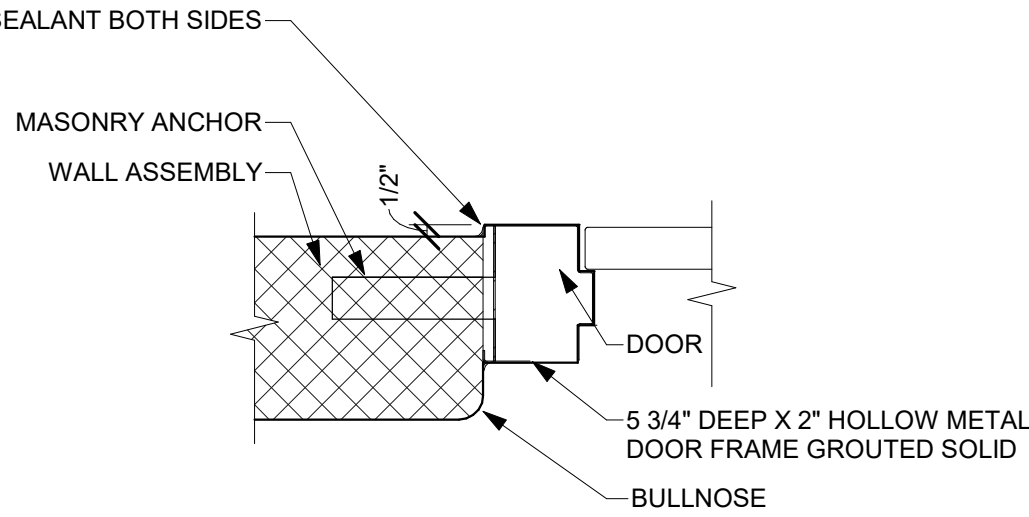
TYPICAL HOLLOW METAL HEAD
DEATIL IN EXTERIOR FRAMED WALL ⑥
1 1/2" = 1'-0"



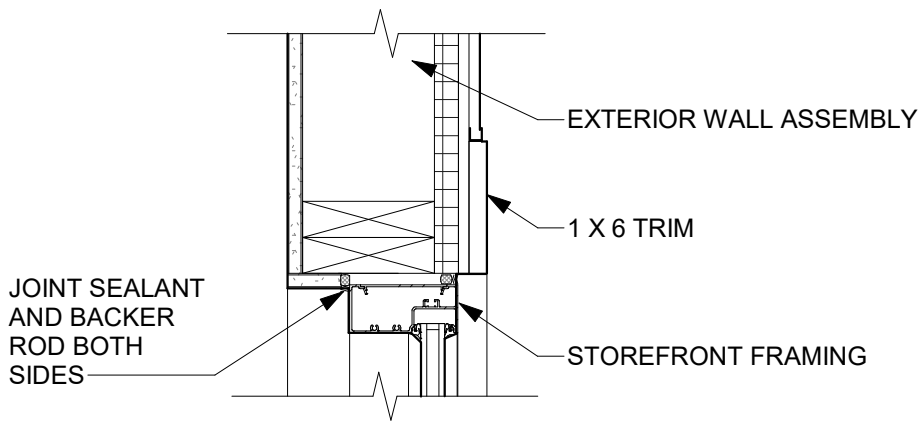
TYPICAL HOLLOW METAL HEAD
DETAIL IN EXTERIOR MASONRY WALL ⑪
1 1/2" = 1'-0"



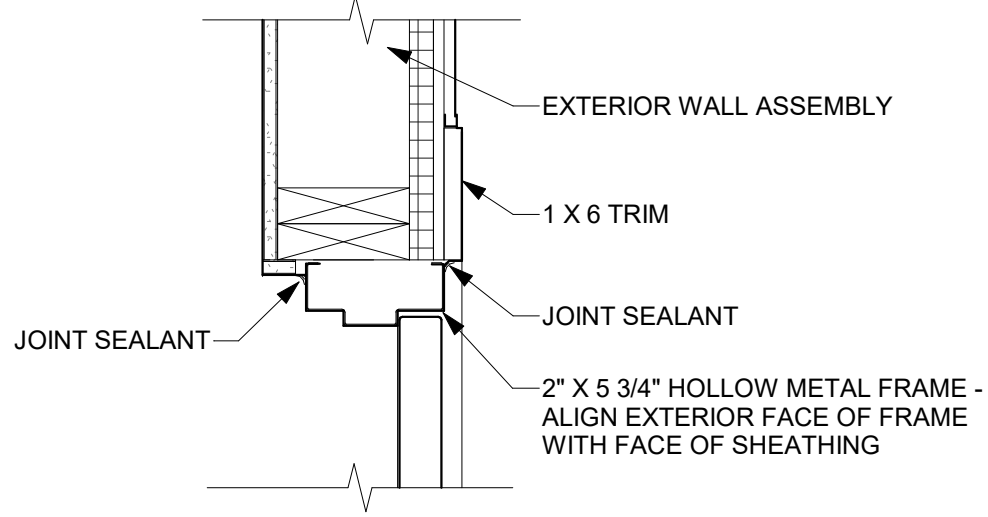
TYPICAL HOLLOW METAL JAMB
DETAIL IN INTERIOR FRAMED WALL ①
1 1/2" = 1'-0"



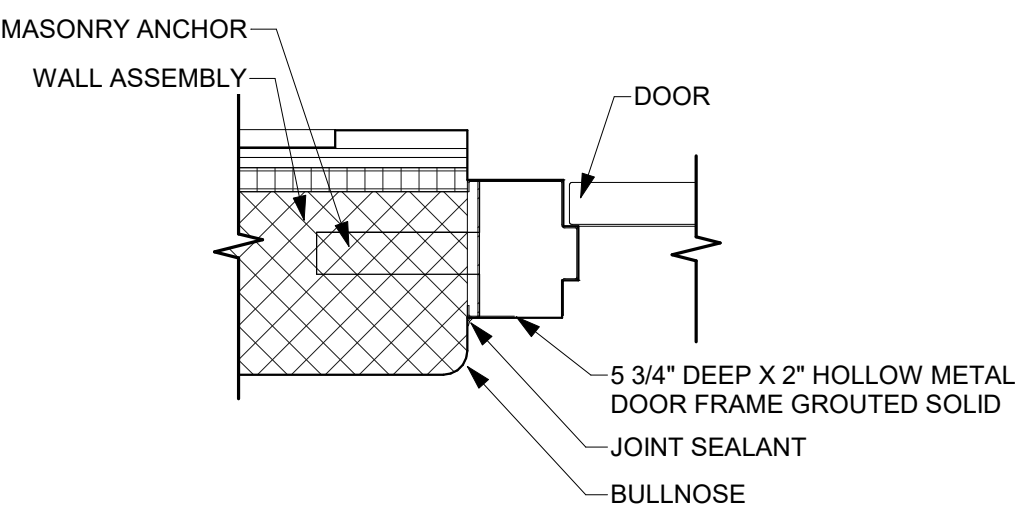
TYPICAL HOLLOW METAL JAMB
DETAIL IN INTERIOR MASONRY WALL ⑩
1 1/2" = 1'-0"



TYPICAL STOREFRONT JAMB
DETAIL IN EXTERIOR FRAMED WALL ④
1 1/2" = 1'-0"

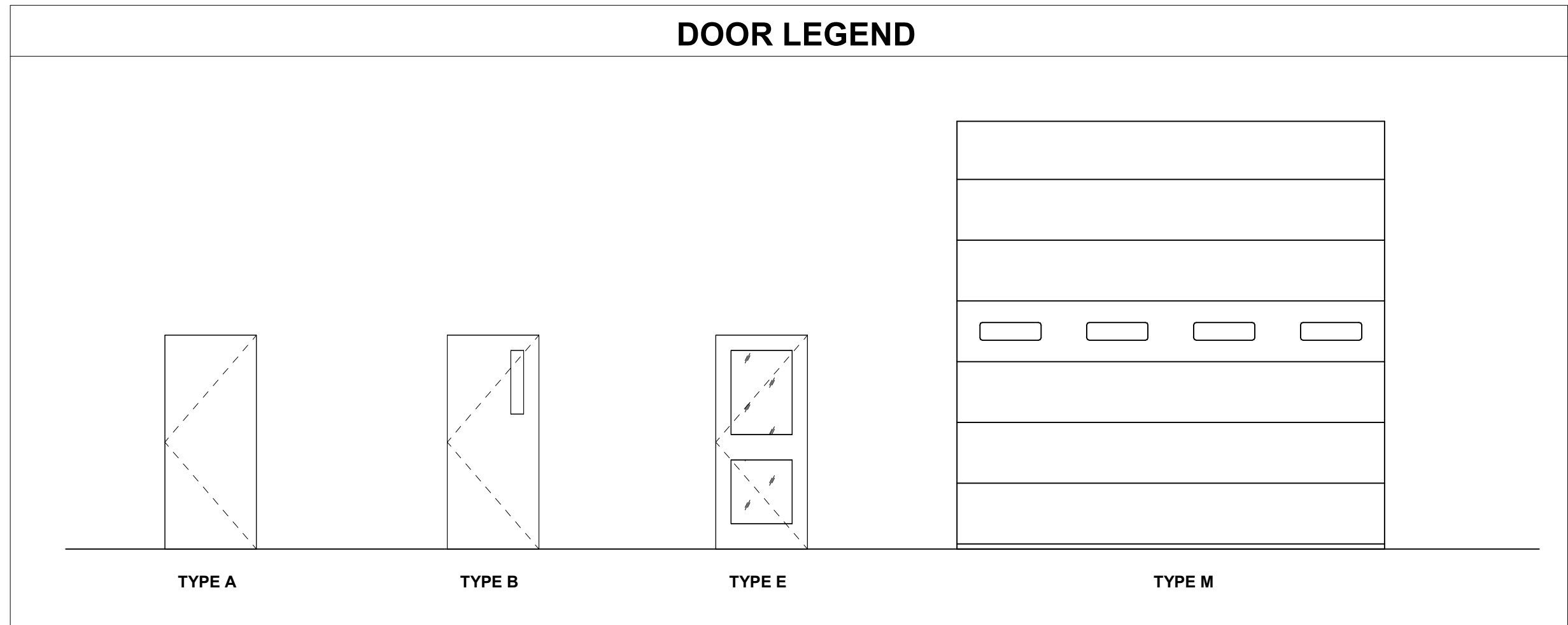


TYPICAL HOLLOW METAL JAMB
DETAIL IN EXTERIOR FRAMED WALL ⑤
1 1/2" = 1'-0"

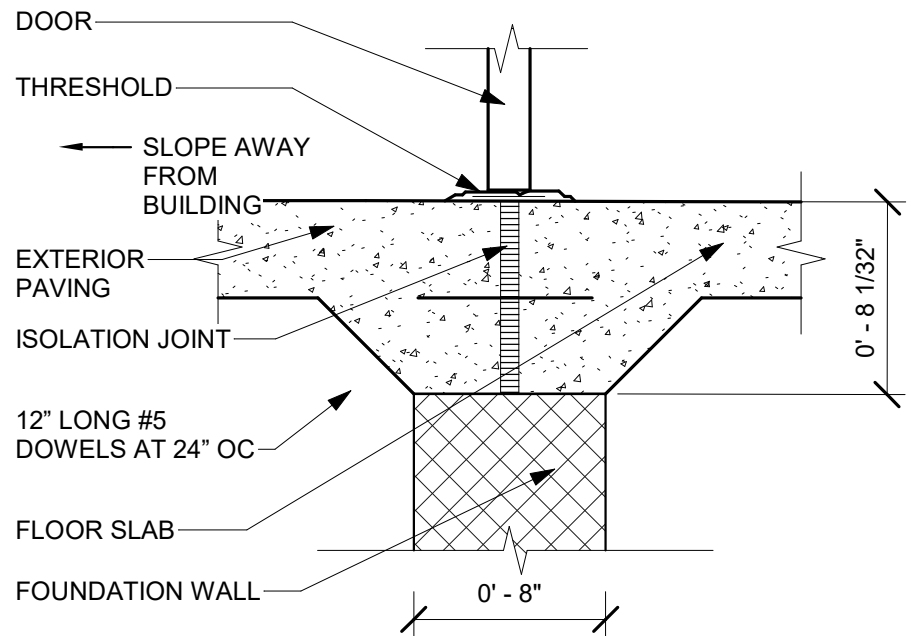
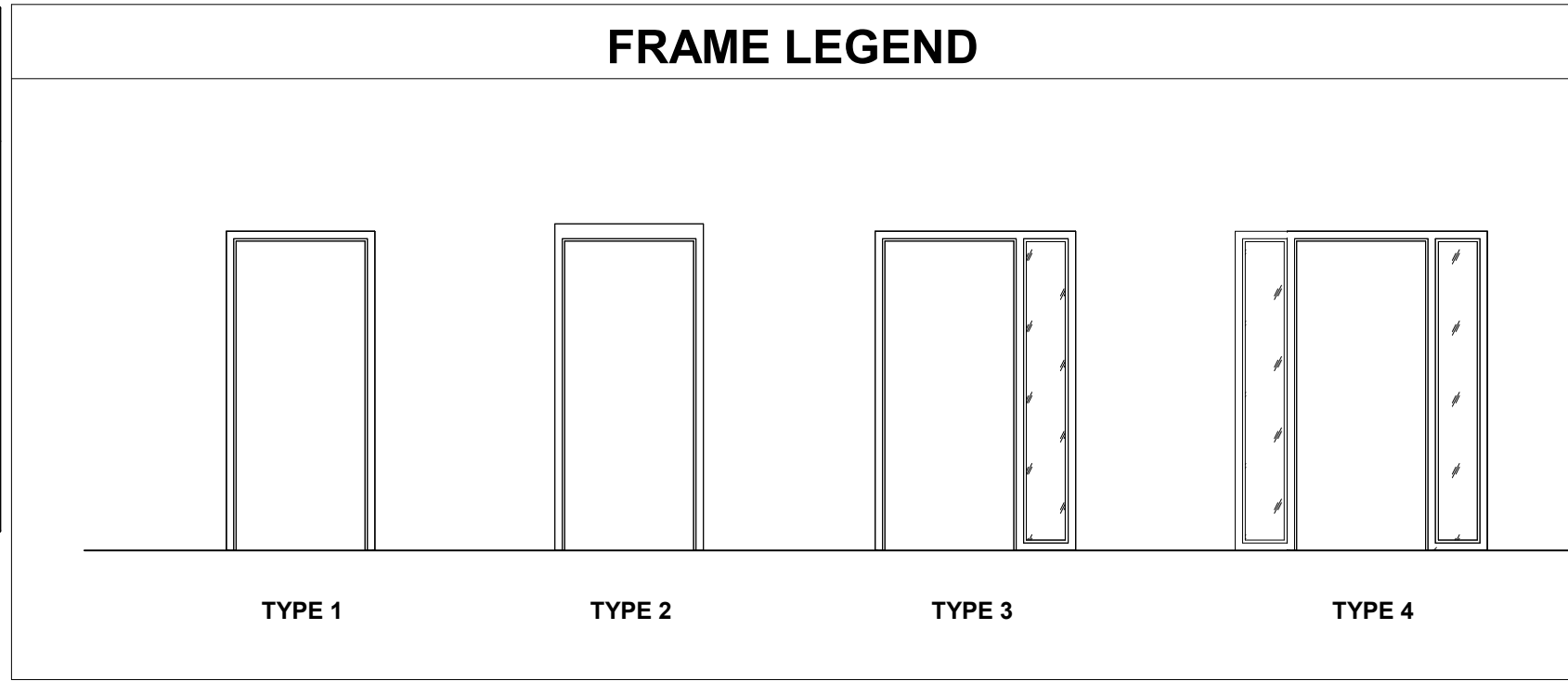


TYPICAL HOLLOW METAL JAMB
DETAIL IN EXTERIOR MASONRY WALL ⑫
1 1/2" = 1'-0"

DOOR SCHEDULE												
DOOR NUMBER	DOOR				FRAME		DETAILS			HARDWAR E SET	FIRE RATING	COMMENTS
	WIDTH	HEIGHT	TYPE	MATERIAL	TYPE	MATERIAL	HEAD	JAMB	SILL			
100	3' - 0"	7' - 0"	A	H.M.	1	H.M.	6/A-600	5/A-600	3/A-600	1		
100A	3' - 0"	7' - 0"	B	WD	1	H.M.	2/A-600	1/A-600	--	2		
101A	3' - 0"	7' - 0"	A	WD	1	H.M.	2/A-600	1/A-600	--	3		
102	3' - 0"	7' - 0"	A	WD	1	H.M.	2/A-600	1/A-600	--	2		
103	3' - 0"	7' - 0"	A	WD	1	H.M.	2/A-600	1/A-600	--	2A	3/4 HOUR	
104	3' - 0"	7' - 0"	A	WD	1	H.M.	2/A-600	1/A-600	--	2A	3/4 HOUR	
105	3' - 0"	7' - 0"	A	H.M.	2	H.M.	9/A-600	10/A-600	--	4	3/4 HOUR	STORM SHELTER
106	3' - 0"	7' - 0"	A	H.M.	2	H.M.	9/A-600	10/A-600	--	5		STORM SHELTER
106A	3' - 0"	7' - 0"	A	WD	1	H.M.	2/A-600	1/A-600	--	6	3/4 HOUR	
106B	3' - 0"	7' - 0"	A	H.M.	2	H.M.	11/A-600	12/A-600	--	11		STORM SHELTER
107	3' - 0"	7' - 0"	A	WD	1	H.M.	2/A-600	1/A-600	--	7		
108	3' - 0"	7' - 0"	A	H.M.	1	H.M.	2/A-600	1/A-600	--	8		
109	3' - 0"	7' - 0"	A	H.M.	1	H.M.	2/A-600	1/A-600	--	8		
110	3' - 0"	7' - 0"	B	H.M.	1	H.M.	2/A-600	1/A-600	--	9		
110A	3' - 0"	7' - 0"	A	H.M.	1	H.M.	6/A-600	5/A-600	3/A-600	1		
110B	14' - 0"	14' - 0"	M	STL	--	--	1/A-601	2/A-601	3/A-601	10		
110C	3' - 0"	7' - 0"	A	H.M.	1	H.M.	6/A-600	5/A-600	3/A-600	1		
110D	14' - 0"	14' - 0"	M	STL	--	--	1/A-601	2/A-601	3/A-601	10		
110E	14' - 0"	14' - 0"	M	STL	--	--	1/A-601	2/A-601	3/A-601	10		
110F	14' - 0"	14' - 0"	M	STL	--	--	1/A-601	2/A-601	3/A-601	10		ALTERNATE
V100A	3' - 0"	7' - 0"	E	AL	4	AL	7/A-600	4/A-600	3/A-600	11		
V100B	3' - 0"	7' - 0"	B	WD	1	H.M.	2/A-600	1/A-600	--	12		
V100C	3' - 0"	7' - 0"	A	WD	3	H.M.	2/A-600	1/A-600	--	13		



DOOR SCHEDULE GEN. NOTES	
1. REFER TO E & T SERIES SHEETS FOR COORDINATION. 2. REFER TO FLOOR PLANS AND EXTERIOR ELEVATIONS FOR LOCATIONS OF INTERCOMS, CARD READERS, DOOR SWINGS AND DOOR MARKS.	
AL	ALUMINUM
H.M.	HOLLOW METAL
WD	WOOD
STL	STEEL
EX	EXISTING



TYPICAL THRESHOLD DETAIL AT
EXTERIOR DOOR ③
1 1/2" = 1'-0"

LIFE FIRST AMBULANCE
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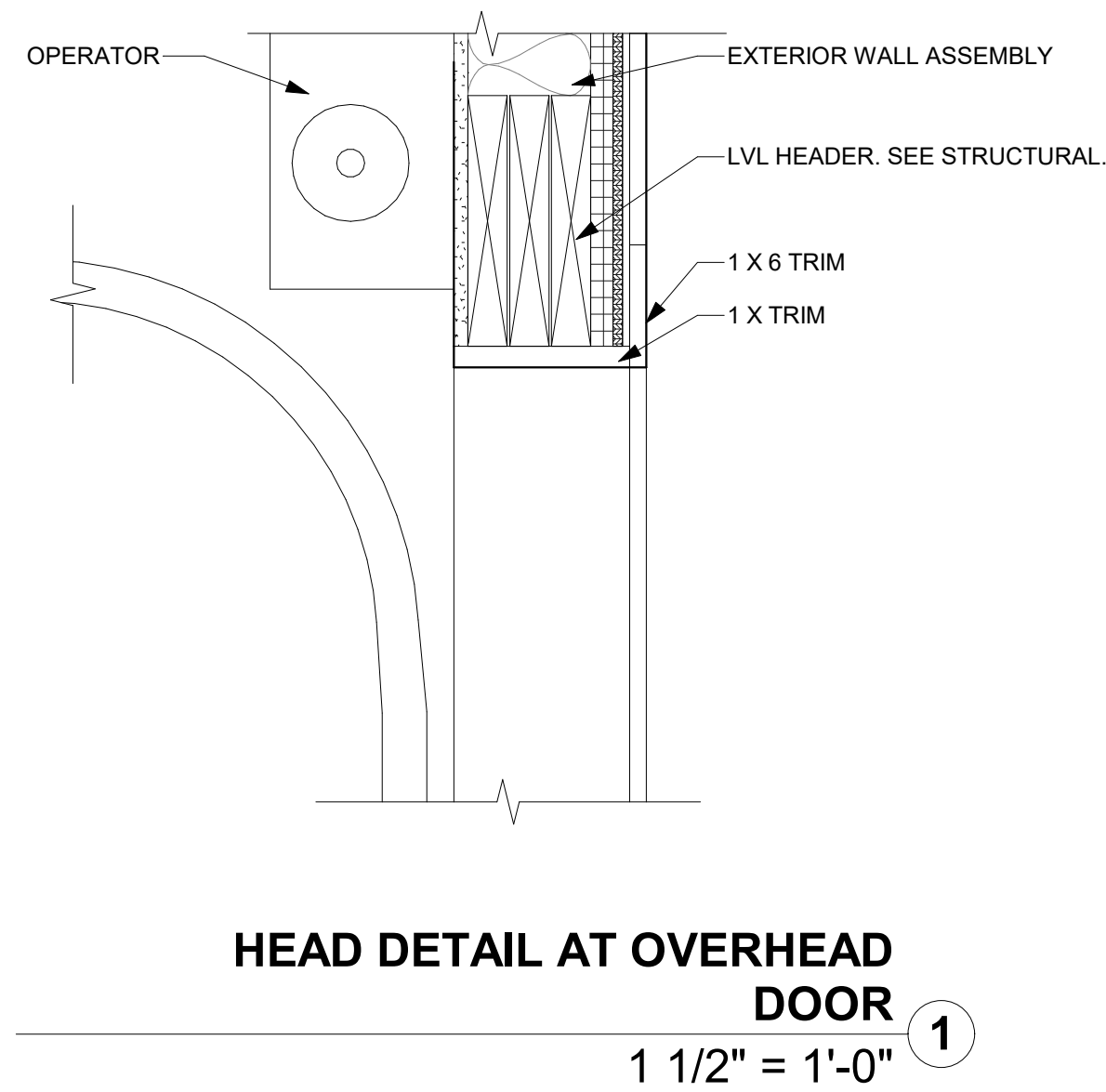
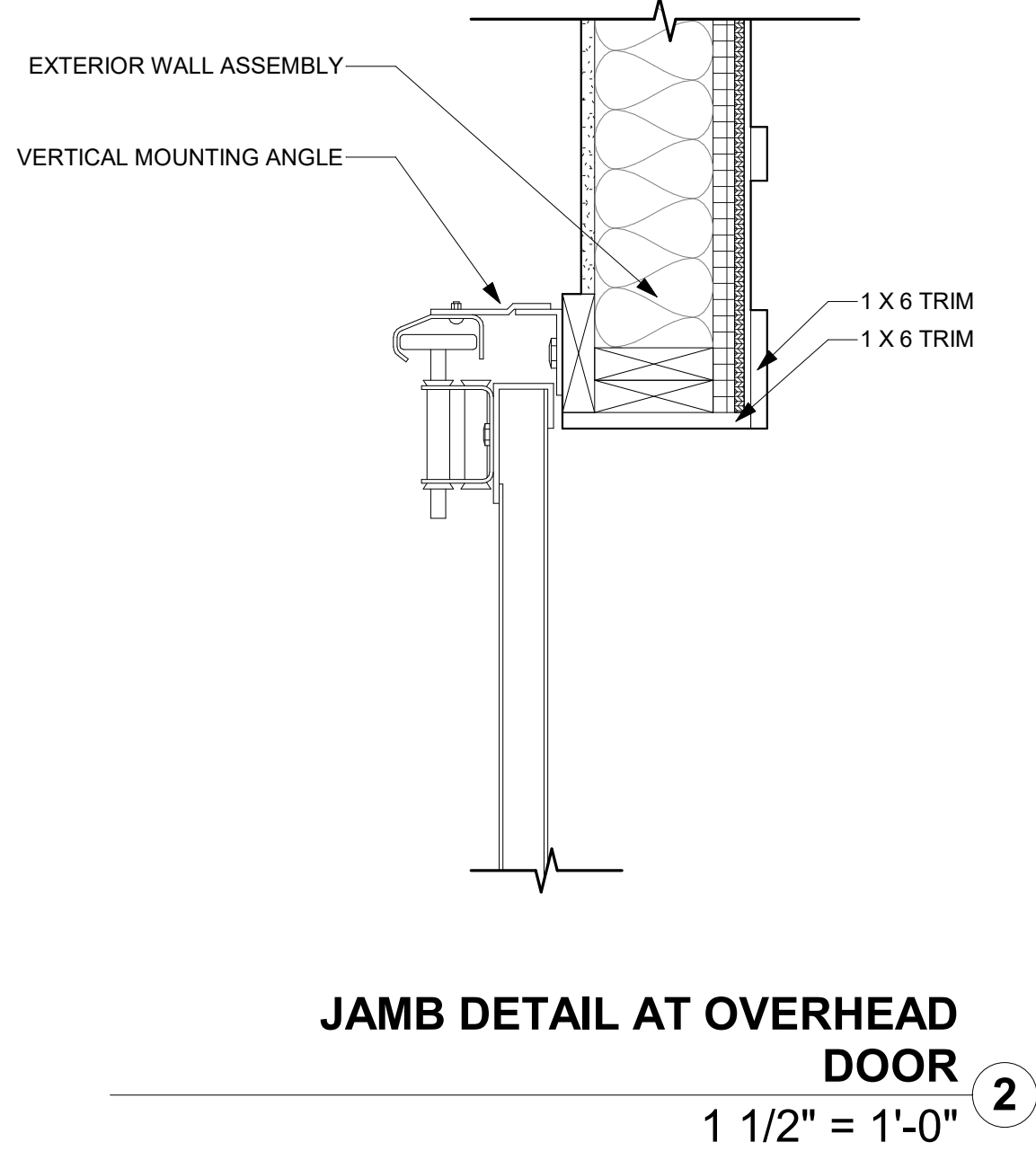
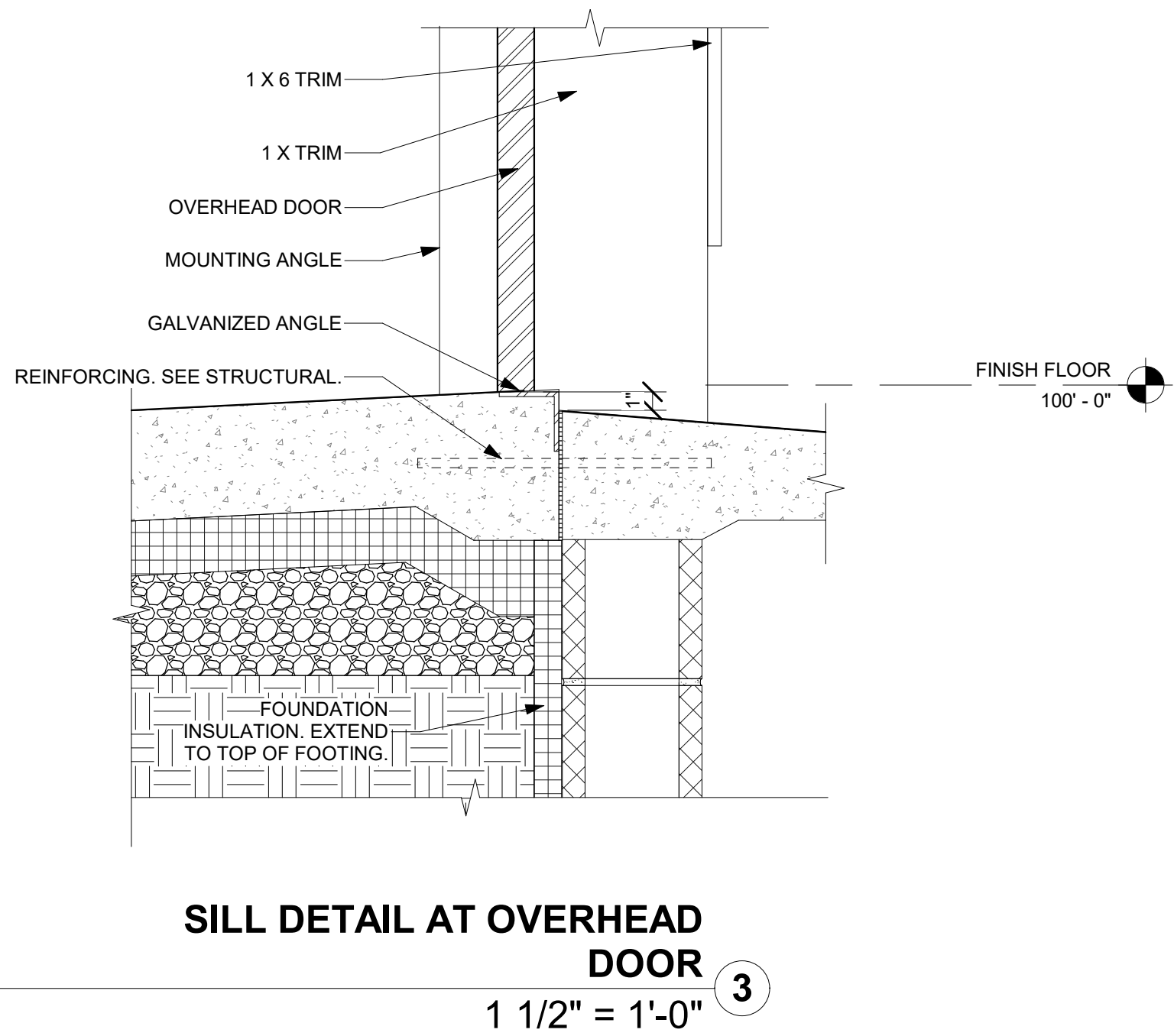
A-600
DOOR SCHEDULE AND DETAILS

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LIFE FIRST AMBULANCE DISTRICT

LIFE FIRST AMBULANCE STATION

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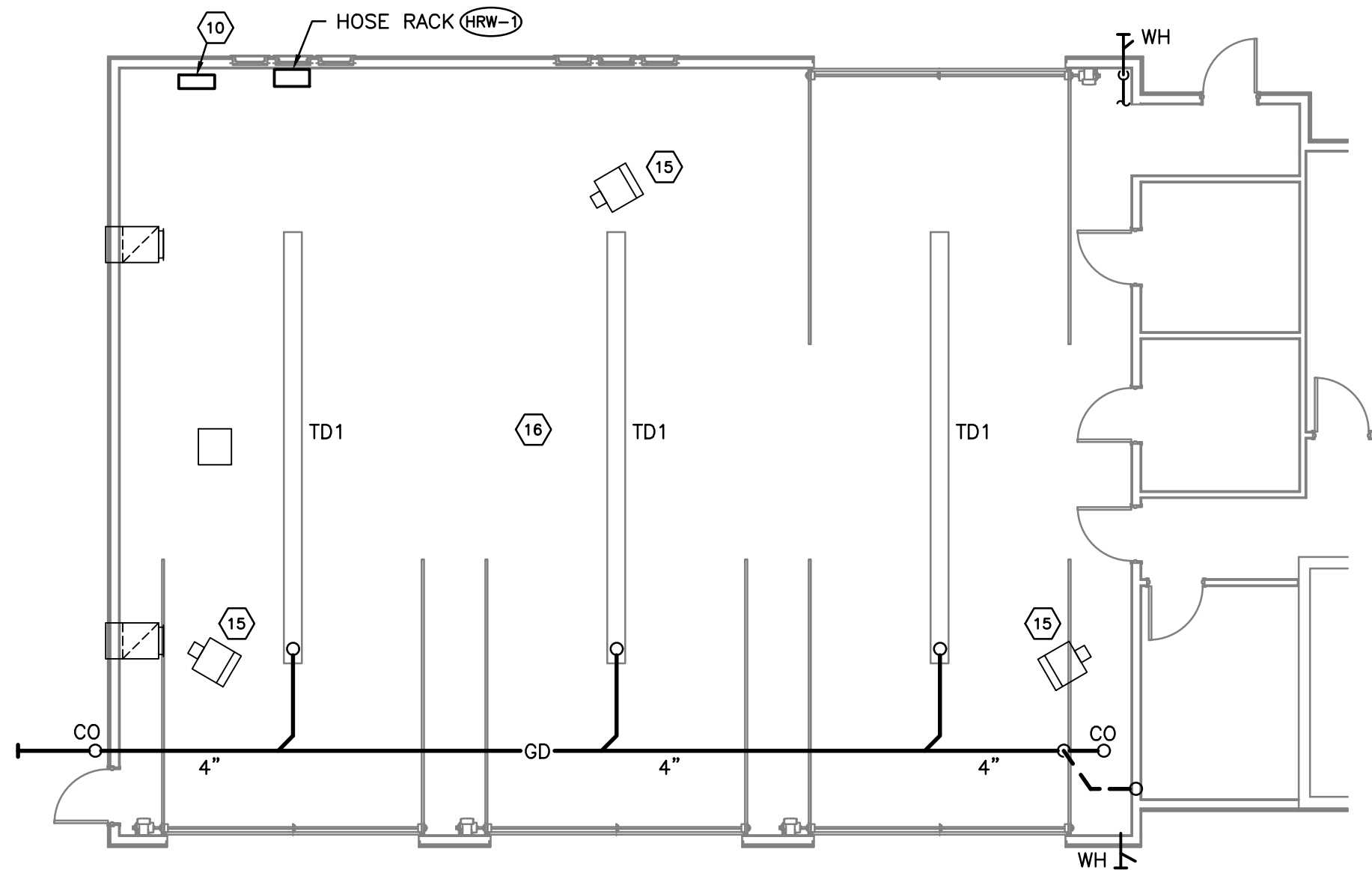
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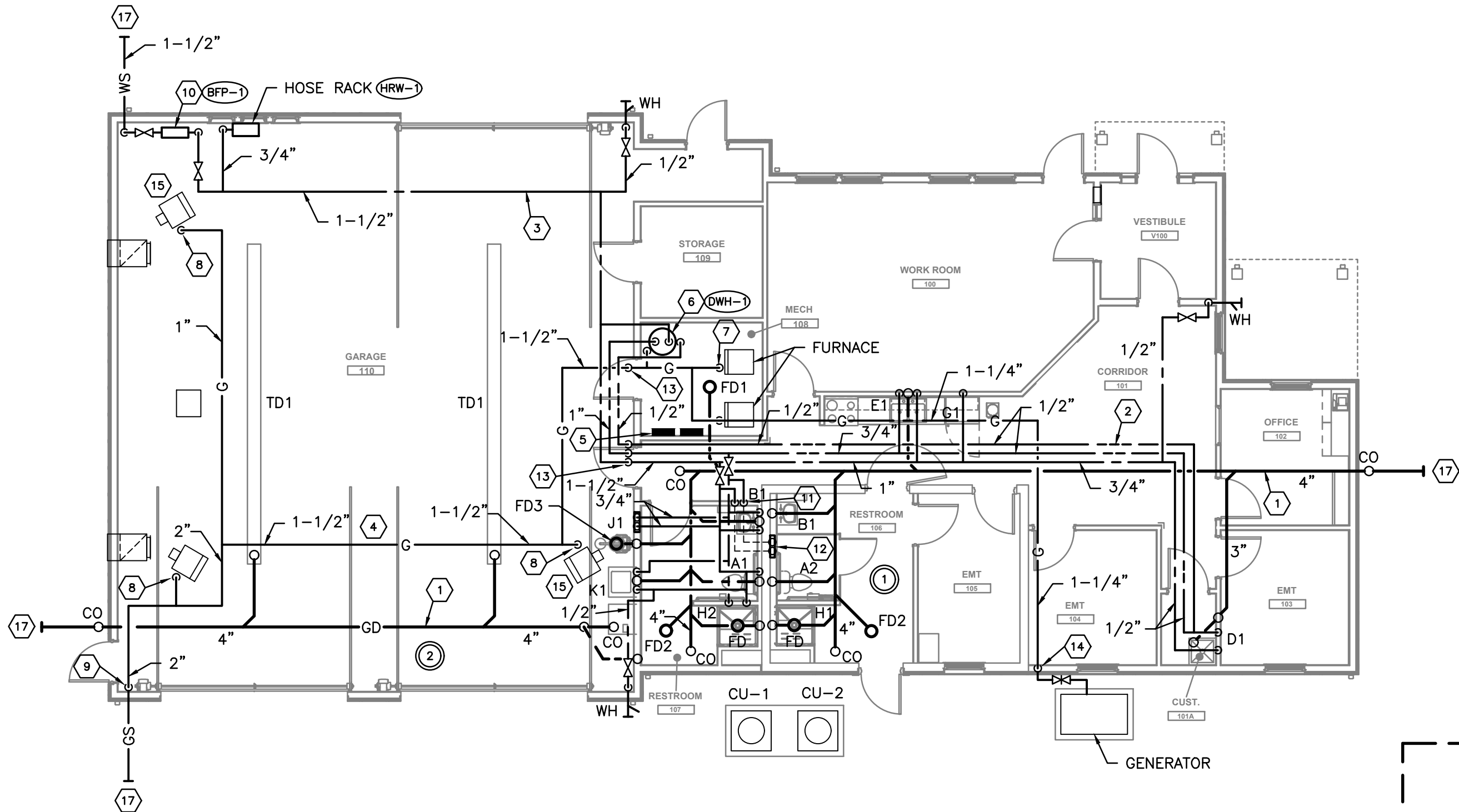
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A-601
OVERHEAD DOOR DETAILS



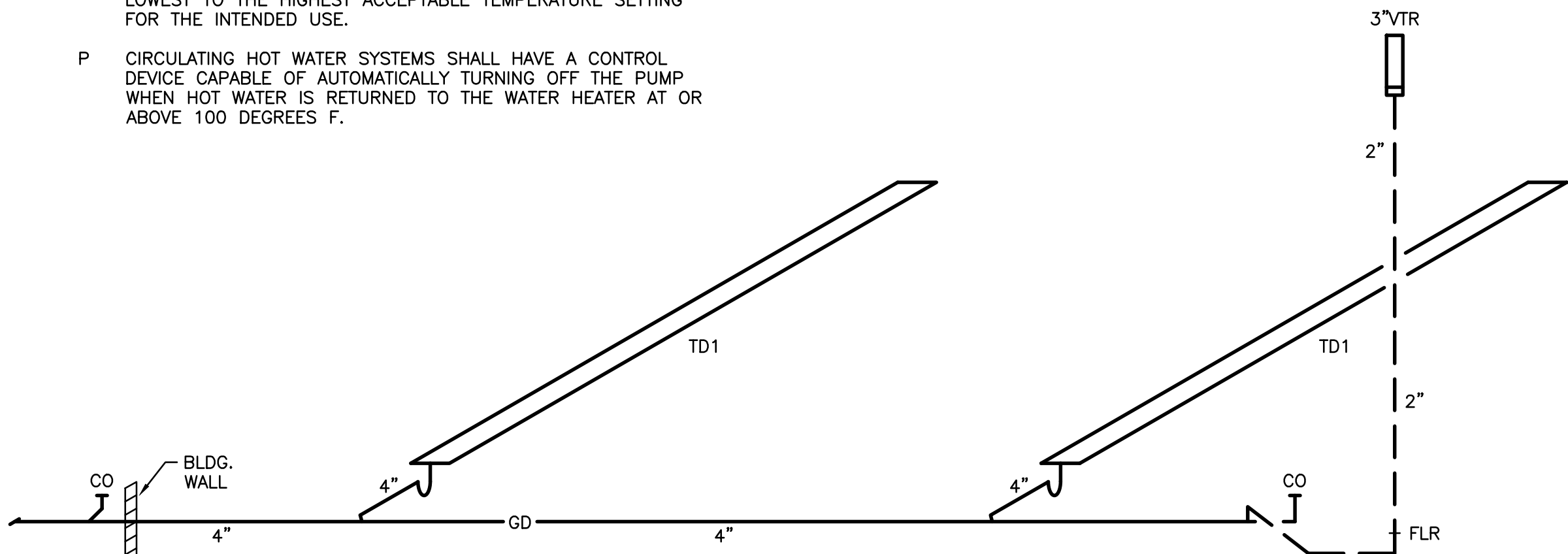
PLUMBING
GARAGE BAY PLAN – ALTERNATE NO. 3

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



PLUMBING
FLOOR PLAN – BASE BID

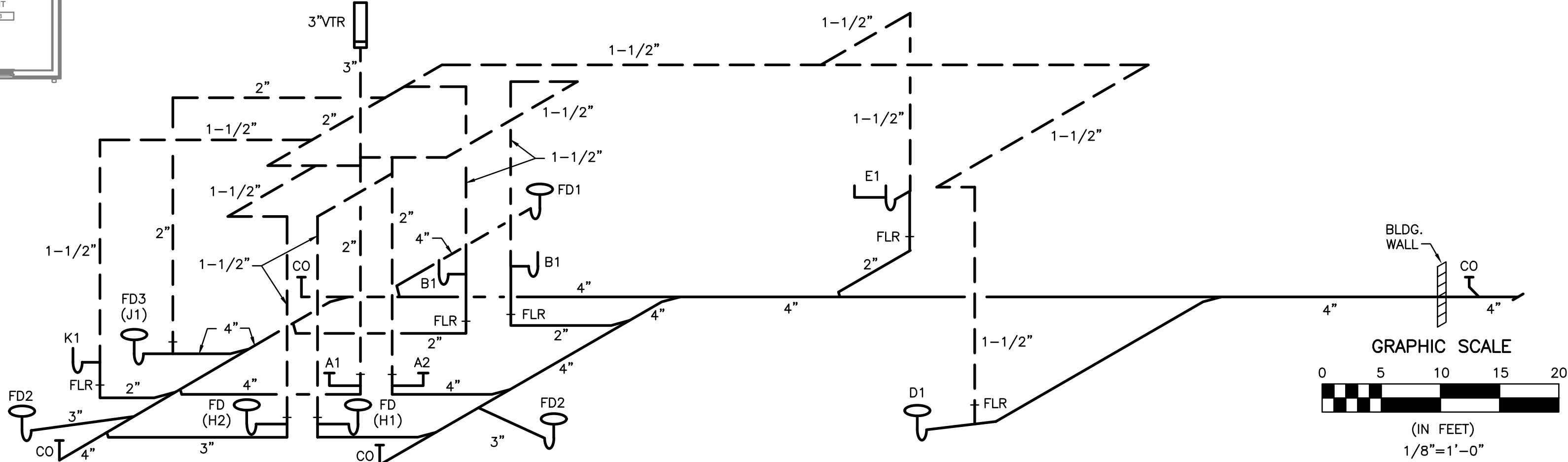
SCALE: 1/8"=1'-0"



STACK DIAGRAM

SCALE: NONE

REFER TO FIXTURE AND DRAIN
SCHEDULES FOR ANY PIPE
SIZES NOT SHOWN ON STACK
DIAGRAMS.



STACK DIAGRAM

SCALE: NONE

NOTES

- SANITARY SEWER BELOW SLAB.
- WATER PIPING ABOVE SUSPENDED CEILING.
- WATER PIPING AT CEILING.
- GAS PIPING AT CEILING.
- ELECTRICAL PANELS.
- PROPANE GAS WATER HEATER, DWH-1. REFER TO DETAIL A/P-101. DROP 3/4" GAS LINE TO WATER HEATER AND PROVIDE SHUT-OFF VALVE. RISE 4" VENT FROM WATER HEATER THRU ROOF AND PROVIDE REQUIRED FLASHING AND BELMONT CAP.
- DROP 3/4" GAS LINE TO EACH FURNACES AND PROVIDE WITH SHUT-OFF VALVE. REFER TO DETAIL B/P-101.
- DROP GAS LINE TO UNIT HEATER AND PROVIDE WITH SHUT-OFF VALVE. REFER TO DETAIL B/P-101.
- DROP 2" GAS LINE ON WALL AND EXTEND THRU WALL 18" ABOVE FINISH GRADE AND RUN GAS LINE BELOW GRADE TO PROPANE TANK LOCATION. REFER TO SITE UTILITY PLAN, SHEET ME-100.
- WATER SERVICE METER AND BACKFLOW PREVENTER. REFER TO DETAIL E/P-101.
- DROP 3/4" C.W. AND 1/2" H.W. LINE IN WALL AND RUN BELOW SLAB AND RISE TO VALVE BOX TO SERVE PLUMBING FIXTURES IN STORM SHELTER.
- STAINLESS STEEL VALVE BOX FOR SHUT-OFF VALVES SERVING STORM SHELTER FIXTURES. MOUNT VALVE BOX 12" A.F.F.
- DROP PIPING TO LOWER CEILING ELEVATION.
- DROP 1-1/4" GAS LINE IN WALL AND EXTEND THRU WALL 18" ABOVE FINISH GRADE AND RUN TO GENERATOR. CAP GAS LINE AT WALL IF ALTERNATE 4 IS NOT ACCEPTED.
- UNIT HEATER (TYPICAL)
- EXTEND ALL PLUMBING UTILITIES (WATER, PROPANE GAS, SANITARY SEWER, ETC.) TO EQUIPMENT AS REQUIRED FOR ALTERNATE GARAGE PLAN LAYOUT.
- FOR CONTINUATION REFER TO UTILITY SITE PLAN, SHEET ME-100.

PLUMBING GENERAL NOTES

- A ALL WATER PIPING SHOWN IS LOCATED ABOVE SUSPENDED CEILINGS (AT THE CEILING IN EXPOSED STRUCTURE AREAS) UNLESS INDICATED OTHERWISE.
- B REFER TO DETAILS, DIAGRAMS AND SCHEDULES FOR PIPING AND PIPE SIZES NOT SHOWN ON FLOOR PLANS.
- C WATER SUPPLY PIPING SHALL BE 1/2" DIAMETER MINIMUM SIZE.
- D COORDINATE PIPING LOCATIONS ABOVE/AT CEILING WITH ALL TRADES CONTRACTORS.
- E ALL PLUMBING FIXTURES LOCATIONS ARE DIAGRAMMATIC. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION AND PLACEMENT.
- F SEAL ALL OPENINGS THROUGH FIRE RATED SURFACES WITH UL LISTED MATERIALS. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY, APPROVED BY THE ADMINISTRATIVE AUTHORITY.
- G UNLESS SPECIFICALLY SHOWN ON THESE PLANS, STRUCTURAL MEMBERS SHALL NOT BE CUT, DRILLED OR NOTCHED WITHOUT AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND/OR THE ARCHITECT.
- H ALL PLUMBING CLEAN OUTS SHALL BE ACCESSIBLE AND LOCATED PER THE CODE REQUIREMENTS.
- I PROVIDE TRAP PRIMER FOR FLOOR DRAINS.
- J FOR FINISH FLOOR AND GRADE ELEVATION, SEE ARCHITECTURAL DRAWINGS.
- K SANITARY DRAINAGE PIPE SHALL BE SLOPED AT 1/8 IN. PER FOOT UNLESS OTHERWISE NOTED.
- L EACH PLUMBING VENTS SHALL TERMINATE NOT LESS THAN TEN (10) FEET FROM OR AT LEAST THREE (3) FEET ABOVE ANY WINDOW, DOOR, OPENING, AIR INTAKE OR VENT SHAFT.
- M FIXTURES, DEVICES, DRAINS, TRIM AND ASSOCIATED PIPING SHALL BE REMOVED BACK TO ACTIVE MAINS AND CAPPED.
- N PROVIDE ACCESS DOORS AND/OR ACCESS PANEL AS NECESSARY TO SERVICE SHUT-OFF VALVES. ALL ACCESS DOORS AND PANEL LOCATION SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION. ACCESS DOORS AND PANELS SHALL BE FIRE RATED TO MATCH THE ENCLOSURE FIRE RATING.
- O WATER HEATING SYSTEMS SHALL BE EQUIPPED WITH AUTOMATIC TEMPERATURE CONTROLS CAPABLE OF ADJUSTMENT FROM THE LOWEST TO THE HIGHEST ACCEPTABLE TEMPERATURE SETTING FOR THE INTENDED USE.
- P CIRCULATING HOT WATER SYSTEMS SHALL HAVE A CONTROL DEVICE CAPABLE OF AUTOMATICALLY TURNING OFF THE PUMP WHEN HOT WATER IS RETURNED TO THE WATER HEATER AT OR ABOVE 100 DEGREES F.

PLUMBING LEGEND

(NOT ALL SYMBOLS ON THE LEGEND APPLY TO THIS PROJECT)

- P.C. PLUMBING CONTRACTOR.
- F.P.C. FIRE PROTECTION CONTRACTOR.
- H.C. HVAC CONTRACTOR.
- E.C. ELECTRICAL CONTRACTOR.
- G.C. GENERAL CONTRACTOR.
- K.E.C. KITCHEN EQUIPMENT CONTRACTOR.
- SANITARY DRAINAGE PIPE.
- SANITARY VENT PIPE.
- COLD WATER PIPE.
- HOT WATER PIPE (110 DEGS. F.)
- HOT RETURN WATER PIPE (110 DEGS. F.)
- W— WELL WATER PIPE.
- G— PROPANE GAS PIPE.
- SHUT-OFF VALVE.
- COMBINATION SHUT-OFF AND BALANCING VALVE.
- CHECK VALVE.
- UNION.
- DIRECTION OF FLOW.
- SS SANITARY STACK (SOIL/WASTE).
- VS VENT STACK.
- VR VENT RISER.
- CO CLEANOUT.
- FD FLOOR DRAIN.
- FCO FLOOR CLEANOUT.
- VTR VENT THRU ROOF.
- AP ACCESS PANEL.
- HB HOSE BIBB.
- WH WALL HYDRANT.
- AFF ABOVE FINISHED FLOOR.
- INV INVERT ELEVATION.
- 123 ROOM NUMBER
- 3 PLAN NOTE SYMBOL – ONLY APPLIES TO THE SHEET ON WHICH NOTE IS SHOWN.
- 2 DETAIL NOTE SYMBOL – ONLY APPLIES TO THE DETAIL ON WHICH NOTE IS SHOWN.
- 3 RISER OR STACK NUMBER.
- A P-200 DETAIL "A" SHOWN ON SHEET P-200.
- P-7 EQUIPMENT REFERENCE SYMBOL.

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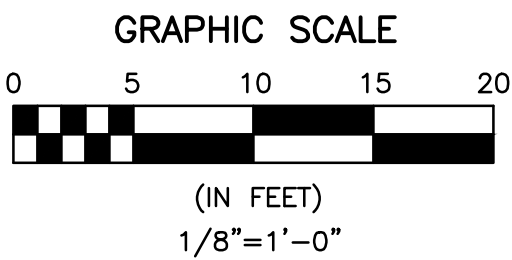
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Mechanical and Electrical Engineering Consultants

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Mobile: 614-296-9049
Project Number: 2026P02

Westerville, Ohio 43082
Email: pat@oreillyeng.com

DRAWN BY: POR/CEC
CHECKED BY: POR
PROJECT NUMBER: 2612

P-100
PLUMBING FLOOR PLAN

[illegible]

1. FIXTURE AND INSTALLATION SHALL COMPLY WITH ALL RULES AND REGULATIONS OF ADA.
2. PROVIDE CHROME PLATED BRASS NIPPLES TO WALL.
3. FINISH SELECTION BY ARCHITECT.
4. PROVIDE PROTECTIVE PIPE COVERS (ADA APPROVED) FOR EXPOSED PIPING BELOW FIXTURES.
5. REFER TO ARCHITECTURAL DRAWINGS FOR LAVATORY MOUNTING HEIGHTS.
6. PROVIDE THERMOSTATIC CONTROL VALVE FOR LAVATORY, LEONARD MODEL 170 VALVE WITH MODEL STSTLXP STAINLESS STEEL CABINET.

7. COORDINATE ELECTRICAL REQUIREMENTS WITH E.C.
8. DISPOSAL: IN-SINK-ERATOR. EVOLUTION "EXCEL", 1.0 H.P., 120 VOLT, 1 PHASE.
9. THERMOSTATIC MIXING VALVE, ROUGH BRASS, SHUT-OFF VALVES, SURFACE MOUNT STAINLESS STEEL CABINET WITH WINDOW. BRADLEY MODEL S19-2150 (EFX20-R-P-S-S-W).
10. PROVIDE SHOWER UNIT WITH FOLD-UP SEAT, GRAB BARS, CURTAIN ROD AND WEIGHTED SHOWER CURTAIN.

DRAINS																																						
MARK	MANUFACTURER ZURN (OR AS SPEC)	TYPE			BODY			OUTLET		STRAINER/GRATE					TOP FINISH		ADDITIONAL FEATURES					SEE DRAIN SCHEDULE NOTES																
		FLOOR	ROOF	AREAWAY	CAST IRON	BRASS	ACID RESIST.	STAINLESS STEEL	PLASTIC	SIZE	BOTTOM	SIDE	SIZE	ADJUSTABLE	FLAT	DOME	RECESSED	FUNNEL	HINGED	SECURED	VANDAL PROOF		NICKLE-BRONZE	CAST IRON	ACID RESIST.	STAINLESS STEEL	PLASTIC	ANCHOR FLANGE	FLSHG. CLAMP	DBL DRAINAGE	SED. BUCKET	AUX. STRAINER	BEARING PAN	U/DECK CLAMP	2" STANDPIPE	TRAP PRIMER CON.	STATIC EXTENSION	
FD1	Z525	•							4"	•		9"RD	•	•	•												•	•	•									
FD2	ZN415-6B-P-Y	•				•			3"	•		6"RD	•	•	•						•						•	•	•							•	•	
FD3	Z521				•				4"	•		12"RD	•	•	•												•	•	•							•	•	
TD1	Z882-DGE (24"-0"L.)			•					4"	•		12"		•									•				•									•	•	

PROPANE GAS LOAD			
GAS EQUIPMENT	NUMBER OF UNITS	CONNECTED BTU/HR PER UNIT	TOTAL BTU/HR
FURNACE F-1	1	40,000	40,000
FURNACE F-2	1	40,000	40,000
UNIT HEATER UH-1	3	75,000	225,000
WATER HEATER	1	45,000	45,000
TOTAL LOAD			350,000
GENERATOR (ALTERNATE)	1	110,000	110,000
			460,000

EQUIPMENT DATA

HRW-1 HOSE RACK (WATER): HOSE STATION WITH SHUT-OFF VALVE, HOSE RACK, 75 FT. HEAVY DUTY HOSE, HOSE NOZZLE AND STAINLESS STEEL SPRING PROTECTOR.
BASIS OF DESIGN: LEONARD MODEL
SW-75-1572-LF-HDHR-75HDH-SP.

BFP-1 REDUCED PRESSURE BACKFLOW PREVENTER WITH 304 (SCHEDULE 40) STAINLESS STEEL HOUSING, TORSION SPRING CHECKS, STAINLESS STEEL RELIEF VALVES, TEST COCKS AND UL/FM OUTSIDE STEM AND YOKE RESILIENT SEATED GATE VALVES. MAXIMUM WORKING PRESSURE 175 PSI.
1-1/2" SIZE.
BASIS OF DESIGN: WILKINS CO. SERIES 975XL, ASSE 101.3 OR EQUAL BY WATTS.

DWH-1 DOMESTIC WATER HEATER - PROPANE GAS.
RECOVERY CAPACITY: 54 GPH AT 90 DEG. F.
TEMPERATURE RISE.
STORAGE CAPACITY: 50 GALLONS
INPUT: 4.50 CFH, 12" W.C.
PUSH-BUTTON SPARK IGNITION.
4" VENT
HEAT TRAP NIPPLES.
BASIS OF DESIGN: A.O. SMITH MODEL GCRT-50L.

THERMAL EXPANSION TANK (DOMESTIC WATER HEATER)
CAPACITY: 1.96 GALLONS, ACCEPTANCE VOLUME 1.27 GALLONS.
BASIS OF DESIGN: A.O. SMITH MODEL PMC-2.

IN-LINE CIRCULATION PUMP: BRONZE CONSTRUCTION, 100 PERCENT LEAD FREE, 1/2" CONNECTIONS. 5.0 GPM AT 12 FT. HD.
ELECTRICAL DATA: 120V - 60 HZ - 1 PH., 90-WATTS
BASIS OF DESIGN: BELL & GOSSETT MODEL NFB-18S

LEGEND

- 1 GAS FIRED WATER HEATER. REFER TO PLUMBING EQUIPMENT DATA.
- 2 EXPANSION TANK. REFER TO PLUMBING EQUIPMENT DATA.
- 3 TANK DRAIN VALVE.
- 4 COMBINATION TEMPERATURE-PRESSURE RELIEF VALVE.
- 5 VACUUM RELIEF VALVE.
- 6 SHUT-OFF VALVE. (TYP.)
- 7 CHECK VALVE. (TYP.)
- 8 UNION (TYP.)
- 9 VENT.
- 10 RECIRCULATING PUMP. REFER TO PLUMBING EQUIPMENT DATA.
- 11 RECIRCULATING PUMP CONTROL AQUASTAT.
- 12 HEAT TRAP NIPPLES.
- 13 DRAIN PAN WITH DRAIN LINE TO FLOOR DRAIN.
- 14 DISCHARGE LINE WITH AIR GAP AT DRAIN PAN.
- 15 MOUNT WATER HEATER ON A STEEL UNISTRUT BASE 18" A.F.F.

SCALE: NONE

SCALE: NONE

- 1 SHUT-OFF VALVE.
- 2 REDUCED PRESSURE BACKFLOW PREVENTER.
WILKINS CO. SERIES 975 XL, ASSE 1013.
- 3 WATER METER.

SCALE: NONE

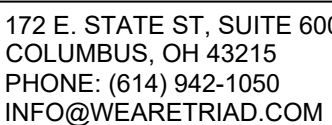
SCALE: NONE P-101

HRW-1 HOSE RACK (WATER): HOSE STATION WITH SHUT-OFF VALVE, HOSE RACK, 75 FT. HEAVY DUTY HOSE, HOSE NOZZLE AND STAINLESS STEEL SPRING PROTECTOR. BASIS OF DESIGN: LEONARD MODEL SW-75-1572-LF-HDHR-75SDH-SP.

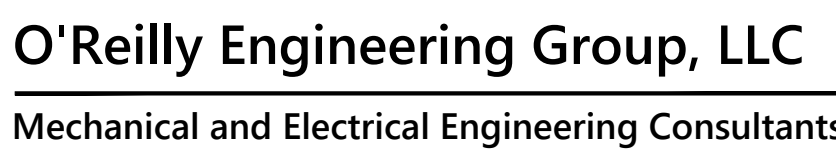
BFP-1 REDUCED PRESSURE BACKFLOW PREVENTER WITH 304 (SCHEDULE 40) STAINLESS STEEL HOUSING, TORSION SPRING CHECKS, STAINLESS STEEL RELIEF VALVES, TE COCKS AND UL/FM OUTSIDE STEM AND YOKER RESILIENT SEATED GATE VALVES. MAXIMUM WORKING PRESSURE PSI. 1-1/2" SIZE. BASIS OF DESIGN: WILKINS CO. SERIES 975XL, ASSE 101.3 OR EQUAL BY WATTS.

DWH-1 DOMESTIC WATER HEATER - PROPANE GAS. RECOVERY CAPACITY: 54 GPH AT 90 DEG. F. TEMPERATURE RISE. STORAGE CAPACITY: 50 GALLONS INPUT: 45.0 CFH, 12" W.C. PUSH-BUTTON SPARK IGNITION. 4" VENT HEAT TRAP NIPPLES. BASIS OF DESIGN: A.O. SMITH MODEL GCRT-50L.

4585 STATE ROUTE 98
SULPHUR SPRINGS, OH 44881



#	DATE	DESCRIPTION
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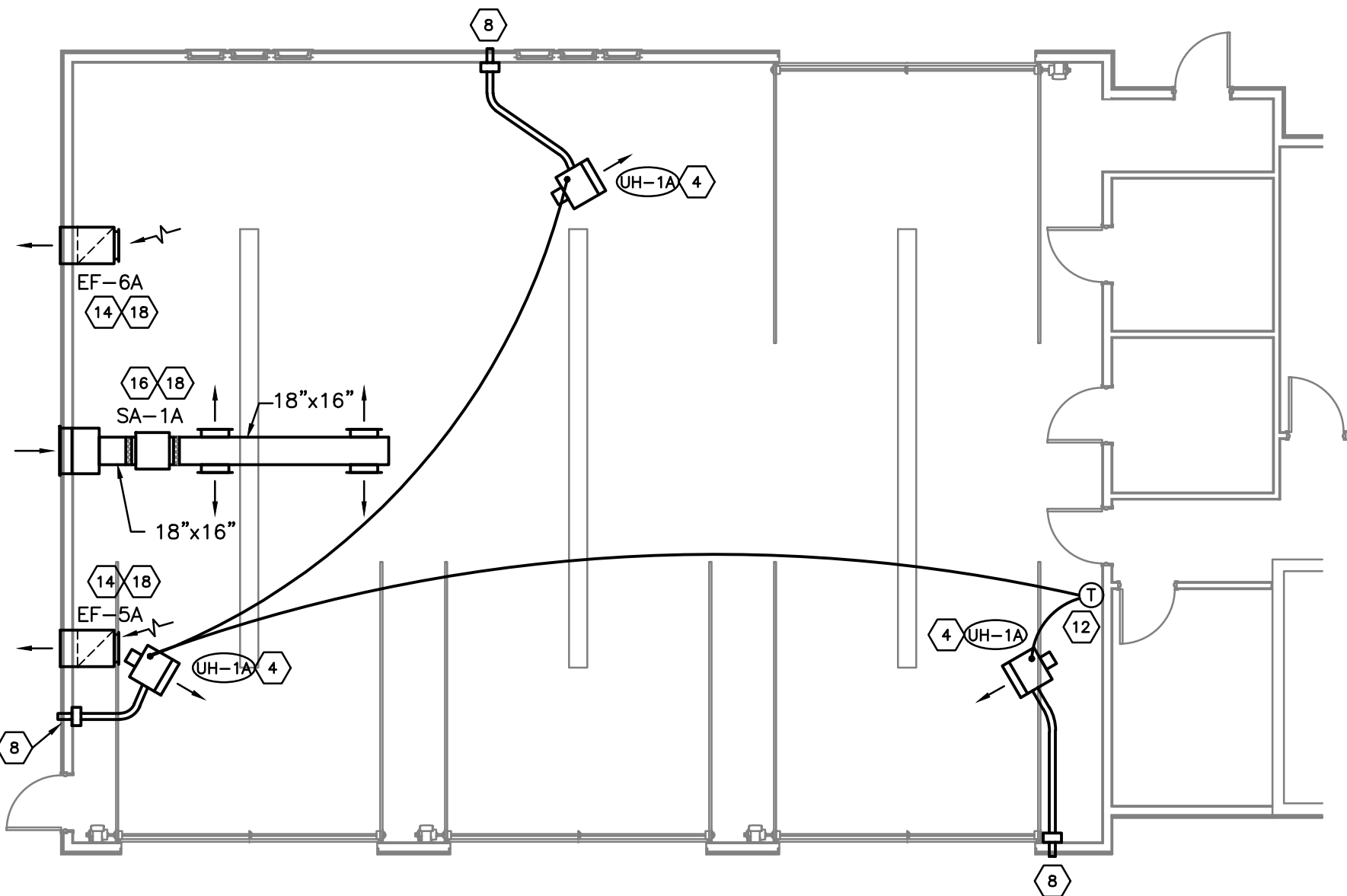
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CHECKED BY: POR
PROJECT NUMBER: 2612

PLUMBING SCHEDULES & DETAILS

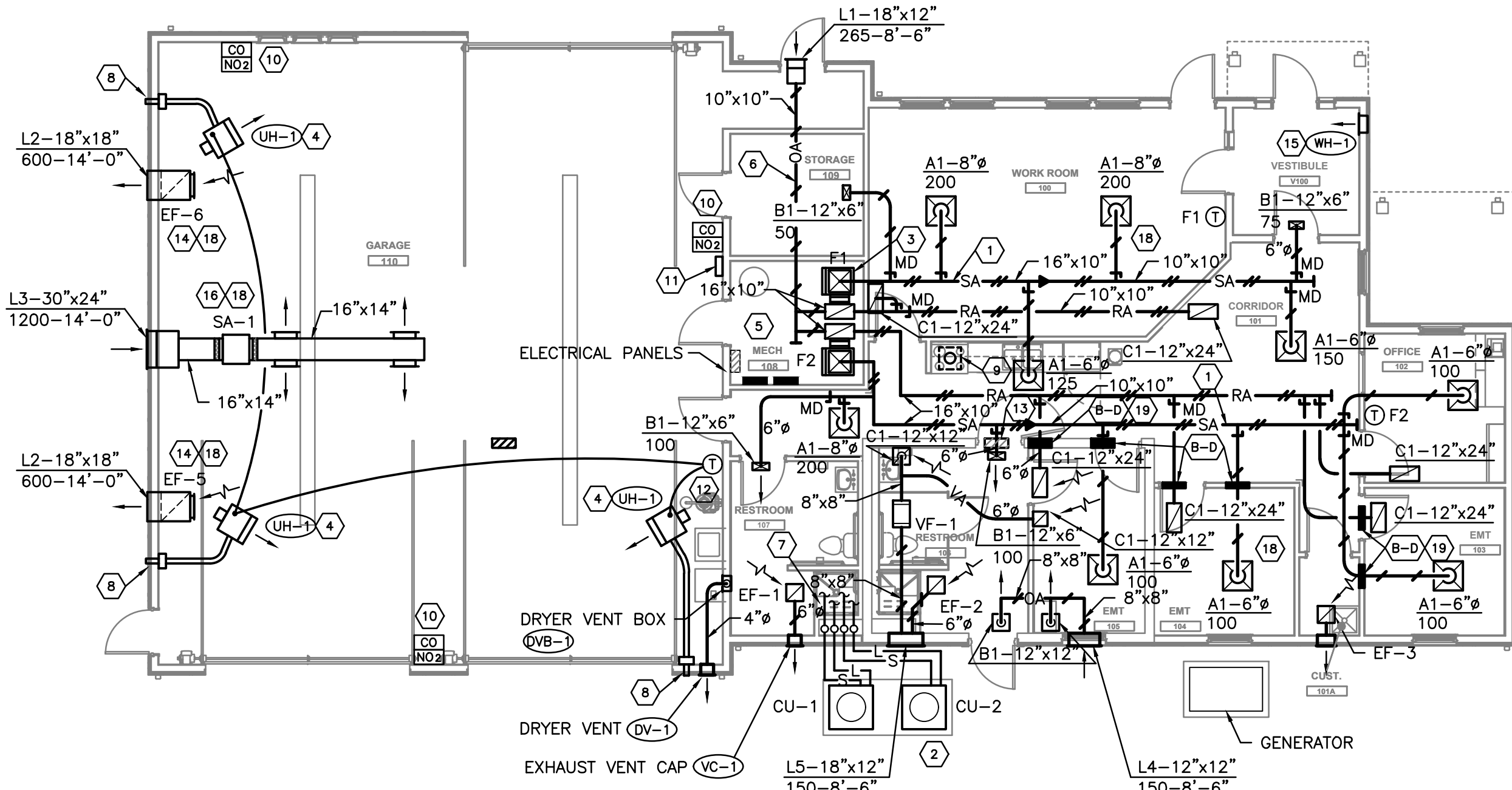
P-101

SCHEDULES & DETAILS

Autodesk Docs\\Life First Emergency Medical Service Station\\2612-Life First EMS Station_R24.rvt 4/29/2026 2:04:46 PM 4/29/2026 9:28:43 AM



HVAC
GARAGE BAY PLAN – ALTERNATE NO. 3
SCALE: 1/8"=1'-0"



HVAC
FLOOR PLAN – BASE BID
SCALE: 1/8"=1'-0"

HVAC GENERAL NOTES

- COORDINATE LOCATION OF ALL DUCTWORK, AIR DEVICES, AND EQUIPMENT WITH STRUCTURAL MEMBERS AND THE WORK OF OTHER TRADES.
- ALL RECTANGULAR SUPPLY AND RETURN AIR DUCTWORK SHALL BE INTERNALLY LINED WITH 1" ACOUSTICAL LINER AS INDICATED ON THE DRAWINGS.
- ALL RUN-OUTS TO AIR DEVICES SHALL BE THE SAME SIZE AS THE AIR DEVICE NECK UNLESS NOTED OTHERWISE.
- ALL RUN-OUTS TO AIR DEVICES SHALL HAVE BRANCH FITTINGS WITH MANUAL DAMPERS UNLESS NOTED OTHERWISE. REFER TO AIR DEVICE DETAILS ON DRAWINGS.
- ALL DUCTWORK SHALL BE LOCATED ABOVE SUSPENDED CEILINGS OR IN SOFFITS UNLESS NOTED OTHERWISE.
- COORDINATE LOCATION OF DUCTWORK WITH LIGHTING FIXTURES.
- REFER TO THE REFLECTED CEILING PLANS IN THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION OF SURFACE AND LAY-IN TYPE AIR DEVICES.
- PROVIDE 4" HIGH CONCRETE PADS WITH CHAMFERED EDGES AND 6" OVERLAP ALL AROUND FLOOR MOUNTED EQUIPMENT UNLESS NOTED OTHERWISE.
- COORDINATE GRILLE, REGISTER AND DIFFUSER LOCATIONS WITH ELECTRICAL LIGHTING LAYOUT AND ARCHITECTURAL REFLECTED CEILING PLANS.
- INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS AND DIFFUSERS SHALL BE PAINTED FLAT BLACK.
- ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
- PROVIDE AIR TURNING VANES IN ALL SQUARE ELBOWS.
- PROVIDE ACCESS PANELS IN DUCTWORK AND CEILINGS WHERE REQUIRED FOR OPERATION AND MAINTENANCE OF ALL FANS, DAMPERS, AIR-DEFLECTING DEVICES AND OTHER MECHANICAL EQUIPMENT. PANELS SHALL HAVE A FIRE RATING EQUAL TO THAT OF THE CEILING.
- PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTS CONNECTING TO FANS AND TO ALL OTHER MECHANICAL EQUIPMENT INCORPORATING FANS.
- UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND VALVE DRAINS SHALL BE PIPED FULL SIZE TO THE NEAREST FLOOR DRAIN OR ROOF DRAIN.
- CONDENSATE DRAINS FROM MECHANICAL EQUIPMENT SHALL BE COORDINATED WITH PLUMBING PLANS FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED.
- SLEEVE AND SEAL ALL PIPING PASSING THROUGH WALLS, FLOORS AND ROOFS UNLESS NOTED OTHERWISE.
- CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURERS' CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.
- BEFORE FABRICATION, VERIFY AND COORDINATE ALL DIMENSIONS IN FIELD.
- ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AND DUCTS (INCLUDING DIVIDED DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE INSULATED SUBBASES FOR ALL ROOM HEATING AND COOLING THERMOSTATS MOUNTED ON EXTERIOR WALLS AND WALLS ADJACENT TO NON-CONDITIONED SPACES.

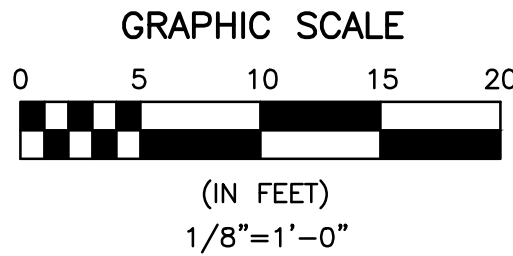
NOTES

- SUPPLY AIR AND RETURN AIR DUCTWORK ABOVE SUSPENDED CEILING.
- MOUNT OUTDOOR CONDENSING UNIT CU-1 AND CU-2 ON 4" HIGH CONCRETE PAD.
- MOUNT FURNACE F-1 AND F-2 WITH VIBRATION ISOLATORS ON A 18" HIGH STEEL UNISTRUT BASE.
- MOUNT BOTTOM OF UNIT HEATERS APPROXIMATELY 15'-0" A.F.F.
- RISE VENT AND COMBUSTION AIR PIPING FROM FURNACE AND EXTEND THRU ROOF WITH CONCENTRIC VENT KIT. PROVIDE FURNACE MANUFACTURER AND CODE APPROVED VENT AND COMBUSTION AIR PIPING AND ROOF TERMINATION FITTING.
- RUN 10" X 10" OUTSIDE AIR DUCT ABOVE CEILING TO FURNACES AND RUN 8" X 8" OUTSIDE AIR DUCT TO EACH FURNACE. REFER TO DETAIL D/H-101.
- REFRIGERANT PIPING ABOVE SUSPENDED CEILING. RUN PIPING TO FURNACES F-1 AND F-2.
- UNIT HEATER VENT AND COMBUSTION AIR WALL FITTING. (TYPICAL)
- INSTALL RANGE HOOD VENT AND ROOF EXHAUST FITTING PROVIDED BY G.C. VERIFY DUCT SIZE AND TYPE WITH EQUIPMENT SUPPLIER.
- CARBON MONOXIDE SENSOR MOUNTED AT 5'-0" A.F.F. NITROGEN DIOXIDE SENSOR MOUNTED AT 15'-0" A.F.F.
- GAS MONITORING CONTROL PANEL.
- WALL THERMOSTAT CONTROLS THREE (3) GARAGE UNIT HEATERS.
- PROVIDE BREAKAWAY DUCT CONNECTION WHERE DUCTS PENETRATE STORM SHELTER WALLS. (THREE (3) LOCATIONS.) REFER TO SMACNA FOR APPROVED TYPE.
- IN-LINE EXHAUST FAN (VERTICAL). 14" X 14" EXHAUST DUCT. DETAIL E/H-101.
- ELECTRIC WALL HEATER.
- MOUNT BOTTOM OF SUPPLY AIR FAN APPROXIMATELY 16'-0" A.F.F.
- CLOTHES DRYER VENT BOX. REFER TO EQUIPMENT DATA, SHEET H-102, ITEM DVB-1.
- INSULATE INDOOR SUPPLY AIR, RETURN AIR, OUTSIDE AIR, EXHAUST AIR DUCTS AND PLENUMS.
- FIRE DAMPER. (6-LOCATIONS) REFER TO DETAIL F/H-101.

HVAC LEGEND

(NOT ALL SYMBOLS ON THE LEGEND APPLY TO THIS PROJECT)

H.C.	HVAC CONTRACTOR.
P.C.	PLUMBING CONTRACTOR.
E.C.	ELECTRICAL CONTRACTOR.
G.C.	GENERAL CONTRACTOR.
K.E.C.	KITCHEN EQUIPMENT CONTRACTOR.
A.T.C.	AUTOMATIC TEMPERATURE CONTROLS.
S.A.	SUPPLY AIR DUCTWORK.
R.A.	RETURN AIR DUCTWORK.
①	THERMOSTAT – MOUNTING HEIGHT 46". WHEN MOUNTED NEXT TO WALL SWITCH, COORDINATE WITH E.C.
①R	REVERSE ACTING THERMOSTAT.
H-7	EQUIPMENT REFERENCE SYMBOL. REFER TO EQUIPMENT DATA.
3	PLAN NOTE SYMBOL – ONLY APPLIES TO THE SHEET ON WHICH NOTE IS SHOWN.
A H101	DETAIL "A" SHOWN ON SHEET H101.
B1-6"x6" 75	RETURN AIR DEVICE – (3) = TOTAL QUANTITY OF AIR DEVICES REQUIRED. AIR DEVICE B1 = DESIGNATION – REFER TO AIR DEVICE SCHEDULE. 6"x6" = DUCT CONNECTION SIZE. 75 CFM = REQUIRED AIR FLOW RATE.
A1-8"ø 225-2	SUPPLY AIR DEVICE – (4) = TOTAL QUANTITY OF AIR DEVICES REQUIRED. AIR DEVICE A1 = DESIGNATION – REFER TO AIR DEVICE SCHEDULE. 8"ø = DUCT CONNECTION SIZE. 225 CFM = REQUIRED AIR FLOW RATE. 2 = AIR DISCHARGE PATTERN IF OTHER THAN 4-WAY.
G1-24"x16" 200-9'-4"	WALL OR DUCT MOUNTED WALL DEVICE. G1=DESIGNATION – REFER TO AIR DEVICE SCHEDULE. 24"x16"=DUCT CONNECTION SIZE. 200=REQUIRED CFM. 9'-4"=MOUNTING HEIGHT FROM FLOOR TO BOTTOM OF DEVICE.
U/C	DOOR UNDER-CUT BY GENERAL CONTRACTOR.
R	DUCT RISE IN DIRECTION OF AIRFLOW.
D	DUCT DROP IN DIRECTION OF AIRFLOW.
1"	DUCT WITH 1" ACOUSTICAL LINER. DUCT SIZES ARE INSIDE CLEAR DIMENSIONS.
1"	DUCT WITH 1" ACOUSTICAL LINER. DUCT SIZES ARE INSIDE CLEAR DIMENSIONS.
1-1/2"	DUCT WITH 1-1/2" EXTERNAL MINERAL-FIBER BLANKET INSULATION.
Ø	FLAT OVAL DUCTWORK.
Ø	FLEXIBLE DUCT CONNECTION.
MD	AIR TURNING VANES.
MD	MANUAL BALANCING VOLUME DAMPER WITH LOCKING DEVICE.
S	DUCT-MOUNTED SMOKE DETECTOR.
E	EXHAUST DUCTWORK.
SA	SUPPLY AIR DUCT.
RA	RETURN AIR DUCT.
VA	VENTILATION AIR.
OA	OUTSIDE AIR DUCT.
L	REFRIGERANT LIQUID LINE.
S	REFRIGERANT SUCTION LINE.
D	DRAIN LINE.
B.O.D.	BOTTOM OF DUCT ELEVATION ABOVE FLOOR. (APPROXIMATE).
(E)	DENOTES EXISTING PIPE OR DUCT.
⊗	CONNECT TO EXISTING SYMBOL.
B-D	FIRE DAMPER – LETTER "A", "B", OR "C" INDICATES TYPE REQUIRED. LETTER "D" OR "S" INDICATES DYNAMIC OR STATIC – REFER TO DETAIL.
CO NO2	CARBON MONOXIDE-NITROGEN DIOXIDE SENSORS.



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Mechanical and Electrical Engineering Consultants

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BIDDING DOCUMENTS

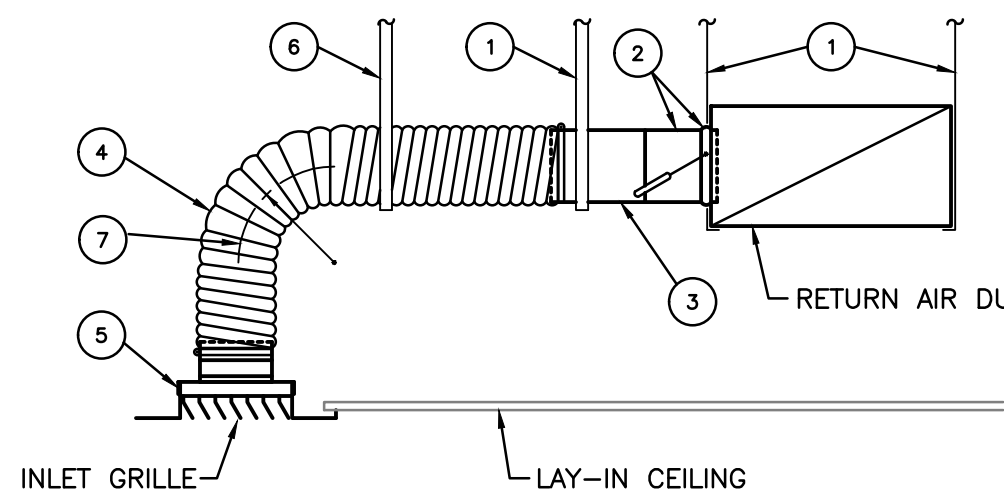
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REVISIONS:

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PROJECT NUMBER: 2612

H-100
HVAC FLOOR PLAN



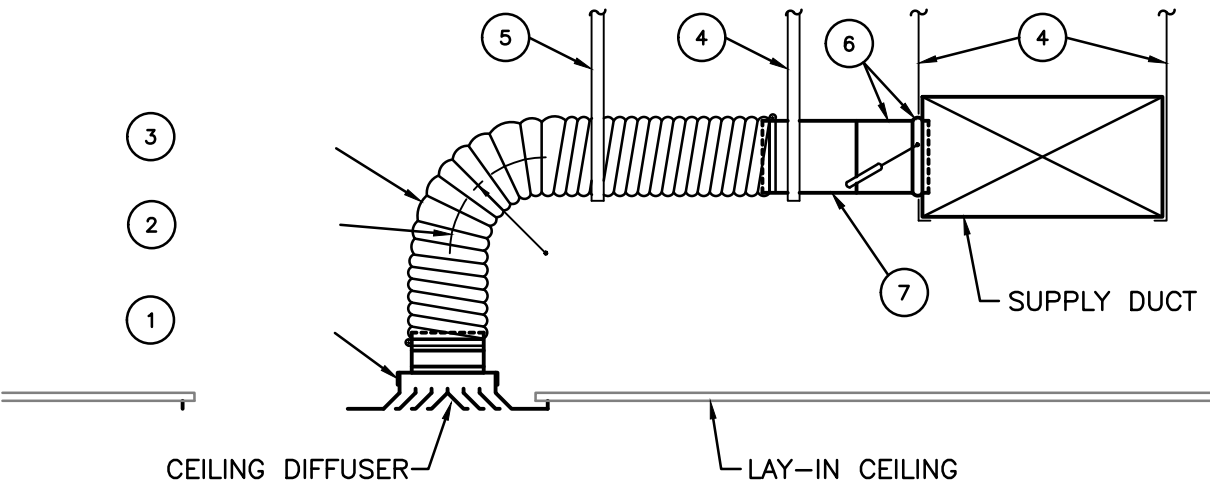
NOMENCLATURE

- DUCT STRAP HANGER. ATTACH TO STRUCTURE.
- SPIN-IN BRANCH TAP FITTING WITH MANUAL DAMPER. DAMPER SHAFT IN HORIZONTAL.
- ROUND BRANCH DUCT. DUCT SHALL BE CONSTRUCTED OF ALUMINUM WHERE SPECIFICALLY INDICATED AS SUCH, AND SHEET METAL IN OTHER LOCATIONS.
- NON-INSULATED ROUND FLEXIBLE DUCT. FLEXIBLE DUCT SHALL NOT EXCEED 7 FT. IN LENGTH. STRETCH DUCT TO AT LEAST 90% OF FULLY EXTENDED LENGTH.
- SQUARE-TO-ROUND ADAPTER WHERE GRILLE NECK IS SQUARE.
- STRAP HANGER REQUIRED AT MID-LENGTH IF LENGTH OF FLEXIBLE DUCT EXCEEDS 4 FT.
- MINIMUM CENTERLINE RADIUS OF ELBOW EQUAL TO DUCT DIAMETER.

INLET GRILLE DUCT CONNECTION

SCALE: NONE

A
H-101



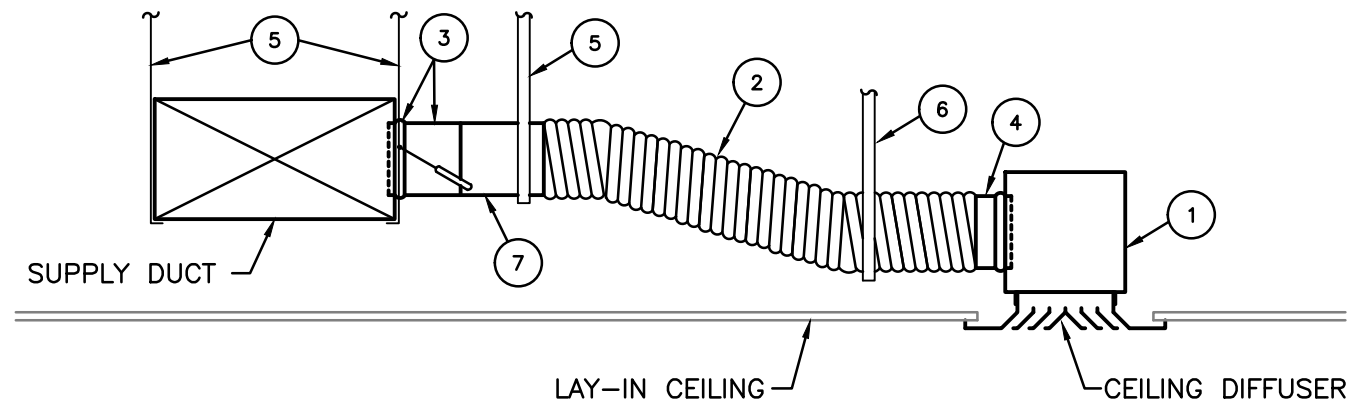
CEILING DIFFUSER DUCT CONNECTION

SCALE: NONE

B
H-101

NOMENCLATURE

- PROVIDE A SQUARE-TO-ROUND ADAPTOR IF CEILING DIFFUSER NECK IS SQUARE.
- MINIMUM CENTERLINE RADIUS OF ELBOW EQUAL TO DUCT DIAMETER.
- INSULATED ROUND FLEXIBLE DUCT. FLEXIBLE DUCT DIAMETER SHALL BE THE SAME AS DIFFUSER INLET, WHEN DIFFUSER NECK IS ROUND. FLEXIBLE DUCT SHALL NOT EXCEED 7 FT. IN LENGTH. STRETCH FLEXIBLE DUCT TO AT LEAST 90% OF FULLY EXTENDED LENGTH.
- DUCT STRAP HANGER. ATTACH TO STRUCTURE.
- STRAP HANGER REQUIRED IF LENGTH OF FLEXIBLE DUCT EXCEEDS 4 FT.
- SPIN-IN BRANCH TAP FITTING, STRAIGHT SIDE, WITH MANUAL DAMPER. DAMPER SHAFT IN HORIZONTAL. INTEGRAL INSULATION GUARD SLEEVE IS REQUIRED FOR TAP FITTING TO MAIN DUCT WITH INTERNAL INSULATION.
- ROUND SHEET METAL BRANCH DUCT.



FOR LIMITED CLEARANCE APPLICATION

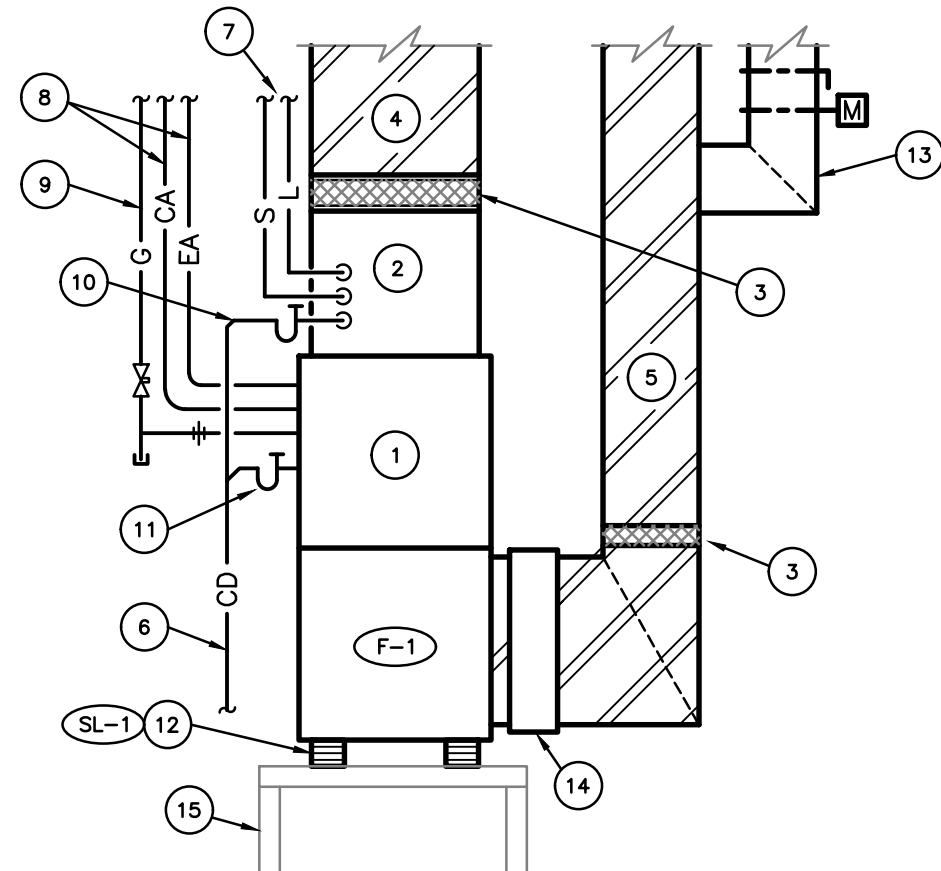
CEILING DIFFUSER DUCT CONNECTION

SCALE: NONE

C
H-101

NOMENCLATURE

- SHEET METAL BOX WITH INTERNAL INSULATION, 2" LARGER EACH DIRECTION THAN DIFFUSER NECK, WITH ADAPTER CONNECTION TO DIFFUSER.
- FLEXIBLE DUCT, DIAMETER AS NOTED ON PLAN. 7 FT. MAXIMUM LENGTH. STRETCH FLEXIBLE DUCT TO AT LEAST 90% OF FULLY EXTENDED LENGTH.
- SPIN-IN BRANCH TAP FITTING, STRAIGHT SIDE, WITH MANUAL DAMPER. DAMPER SHAFT IN HORIZONTAL. INTEGRAL INSULATION GUARD SLEEVE REQUIRED FOR TAP FITTING TO MAIN DUCT WITH INTERNAL INSULATION.
- SPIN-IN TAP FITTING SIMILAR TO (3) EXCEPT NO DAMPER.
- DUCT STRAP HANGER. ATTACH TO STRUCTURE.
- STRAP HANGER REQUIRED IF LENGTH OF FLEXIBLE DUCT IS LONGER THAN 3 FT.
- ROUND SHEET METAL BRANCH DUCT.



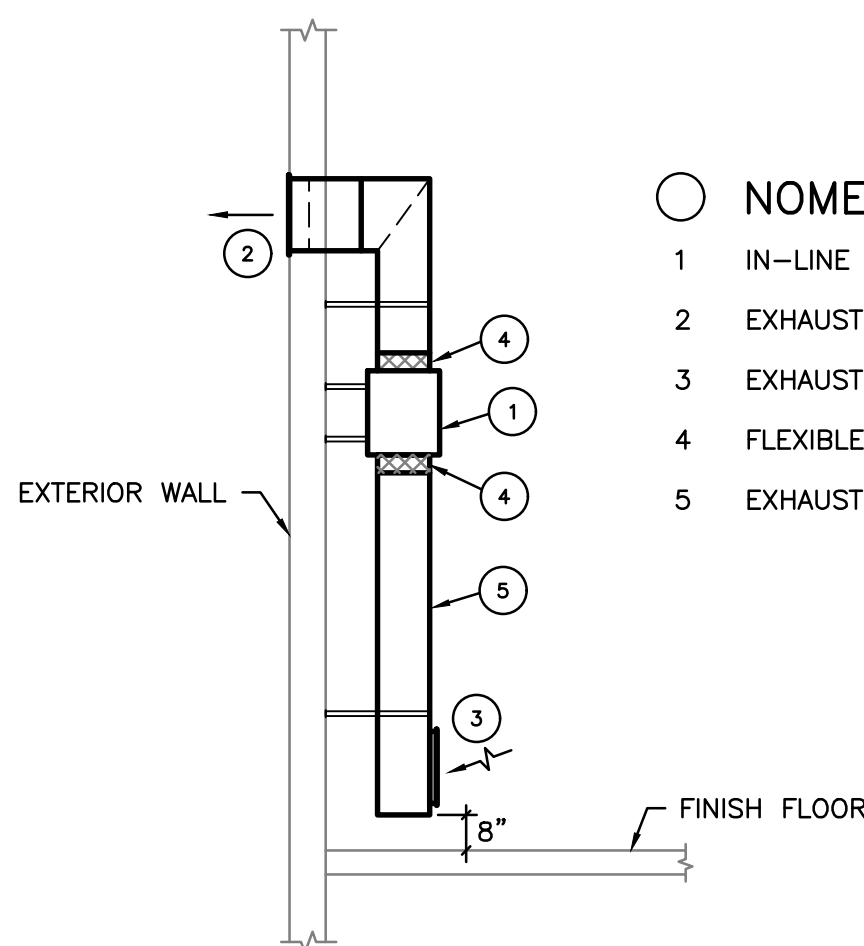
NOMENCLATURE-FURNACES

- FURNACE.
- EVAPORATOR COIL.
- FLEXIBLE DUCT CONNECTION.
- SUPPLY AIR DUCT INTERNALLY LINED.
- RETURN AIR DUCT INTERNALLY LINED.
- RUN DRAIN LINES TO FLOOR DRAIN.
- LIQUID AND SUCTION REFRIGERANT LINES.
- COMBUSTION AIR INTAKE AND EXHAUST AIR OUTLET PIPE.
- GAS PIPING WITH SHUT-OFF VALVE AND DIRT LEG.
- 0.75" EVAPORATOR COIL CONDENSATE DRAIN WITH TRAP.
- 0.75" FURNACE CONDENSATE DRAIN WITH TRAP.
- VIBRATION ISOLATOR PAD.
- OUTSIDE AIR DUCT WITH MANUAL DAMPER AND MOTORIZED DAMPER.
- MEDIA FILTER CABINET.
- MOUNT FURNACE ON A STEEL UNISTRUT BASE 18" A.F.F.

FURNACE F-1, F-2

SCALE: NONE

D
H-101



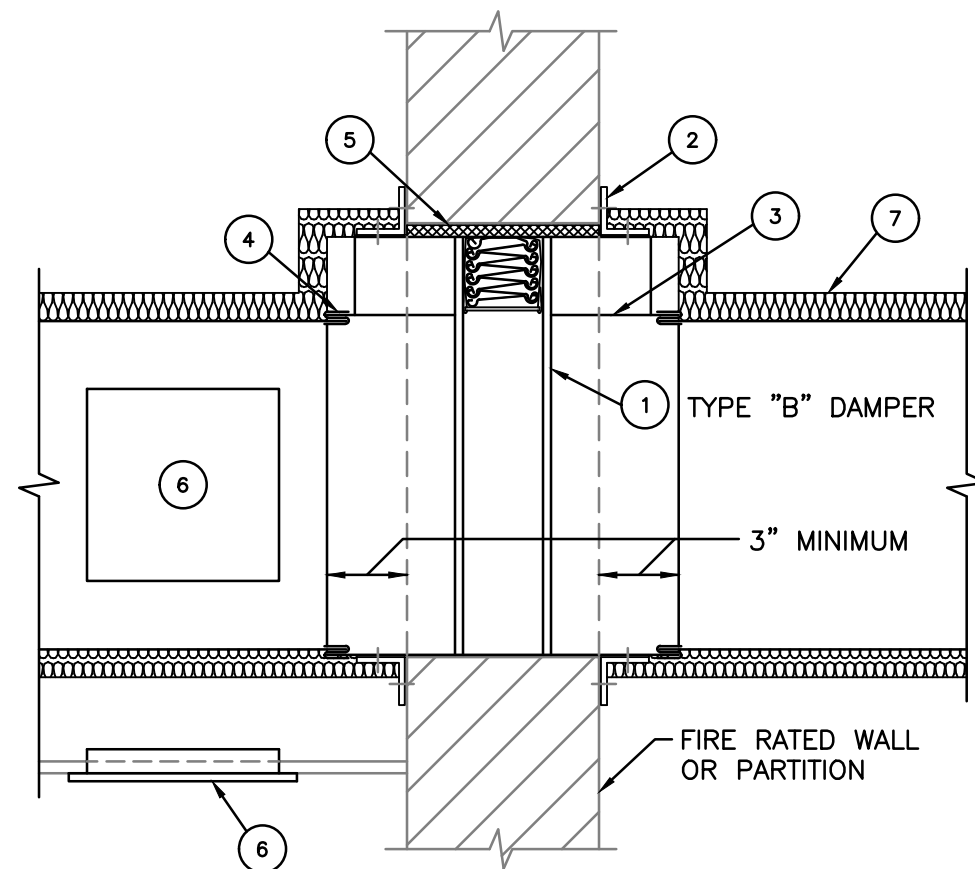
NOMENCLATURE

- IN-LINE EXHAUST FAN. (VERTICAL).
- EXHAUST AIR LOUVER.
- EXHAUST AIR GRILLE.
- FLEXIBLE DUCT CONNECTION.
- EXHAUST DUCT.

GARAGE EXHAUST FAN

SCALE: NONE

E
H-101



FIRE DAMPER - TYPE "B"

SCALE: NONE

F
H-101

NOMENCLATURE

- FIRE DAMPER: CURTAIN TYPE WITH 20 GAUGE FRAME, 24 GAUGE BLADES AND FUSIBLE LINK.
TYPE "B" - BLADES STORED OUT OF AIR STREAM.
"S" DESIGNATION - STATIC TYPE
"D" DESIGNATION - DYNAMIC TYPE
- PERIMETER ANGLES: GALVANIZED STEEL, NOT LESS THAN 1-1/2" X 1-1/2", 14-GAUGE. PROVIDE 1" MINIMUM OVERLAP OF OPENING ON ALL FOUR (4) SIDES.
- GALVANIZED SLEEVE: GAUGE NOT LESS THAN CONNECTING DUCT. FASTEN SLEEVE TO DAMPER FRAME AND TO PERIMETER ANGLES.
- BREAKAWAY DUCT CONNECTION: REFER TO SMACNA FOR APPROVED TYPES.
- PROVIDE 1/4" TO 1/2" CLEARANCE ON HEIGHT AND WIDTH. FILL OPEN SPACE WITH ROCK WOOL FIRESTOP FIBER.
- ACCESS PANELS: SIZE AND LOCATION TO PERMIT SERVICING THE FUSIBLE LINK.
- INSULATED DUCTS SHALL HAVE INSULATION RUN TO PERIMETER ANGLES.

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BIDDING DOCUMENTS

8/17/26

REVISIONS:

#	DATE	DESCRIPTION
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DRAWN BY: POR/CEC
CHECKED BY: POR
PROJECT NUMBER: 2612

H-101
HVAC DETAILS

EQUIPMENT DATA

UH-1 GAS-FIRED UNIT HEATER: SEPARATED COMBUSTION UNIT HEATER WITH ALUMINIZED STEEL HEAT EXCHANGER, ONE-PIECE BURNER ASSEMBLY, INTERNAL OVERLOAD PROTECTION, 24-VOLT CONTROLS, DIAGNOSTIC INDICATOR LIGHTS, DIRECT IGNITION, DISCONNECT SWITCH AND FAN GUARD. 961 CFM CAPACITY: 75.0 MBH INPUT, 62.3 OUTPUT. 12" W.C. PROPANE GAS PRESSURE. ELECTRICAL DATA: 0.25 H.P., 3.7 FLA, 120V-60HZ-1 PHASE. PROVIDE 4" DIA. VENT AND 4" DIA. COMBUSTION AIR INTAKE DUCT WITH WALL CONCENTRIC VENT ADAPTER KIT. APPROXIMATE WEIGHT: 90 LBS. BASIS OF DESIGN: REZNOR MODEL UDXC-75.

THERMOSTAT: 7-DAY PROGRAMMABLE TYPE AS MANUFACTURED BY ECOBEE (WIFI) EB-STATE3LTIBR-01.

UH-1A GAS-FIRED UNIT HEATER: SEPARATED COMBUSTION UNIT HEATER WITH ALUMINIZED STEEL HEAT EXCHANGER, ONE-PIECE BURNER ASSEMBLY, INTERNAL OVERLOAD PROTECTION, 24-VOLT CONTROLS, DIAGNOSTIC INDICATOR LIGHTS, DIRECT IGNITION, DISCONNECT SWITCH AND FAN GUARD. 1345 CFM CAPACITY: 105.0 MBH INPUT, 87.1 OUTPUT. 12" W.C. PROPANE GAS PRESSURE. ELECTRICAL DATA: 0.25 H.P., 4.3 FLA, 120V-60HZ-1 PHASE. PROVIDE 4" DIA. VENT AND 4" DIA. COMBUSTION AIR INTAKE DUCT WITH WALL CONCENTRIC VENT ADAPTER KIT. APPROXIMATE WEIGHT: 125 LBS. BASIS OF DESIGN: REZNOR MODEL UDXC-100.

THERMOSTAT: 7-DAY PROGRAMMABLE TYPE AS MANUFACTURED BY ECOBEE (WIFI) EB-STATE3LTIBR-01.

WH-1 ARCHITECTURAL HEAVY-DUTY WALL HEATER - FAN - FORCED, SURFACE MOUNTED. CAPACITY: 2.0 KW AT 100 CFM. ELECTRIC: 8.3 FLA, 240 VOLT, 1 PHASE DIMENSIONS: HEIGHT: 19-3/16" WIDTH: 15-3/4" ELECTRIC UNIT HEATER SHALL BE PROVIDED WITH AN INTERNAL THERMOSTAT AND AN INTEGRAL LINE VOLTAGE DISCONNECT. APPROX. UNIT WEIGHT: 25 LBS. BASIS OF DESIGN: Q-MARK "AWH" SERIES WALL HEATER WITH SURFACE MOUNTING FRAME "AWHSM".

DV-1 CLOTHES DRYER VENT: STAINLESS STEEL CONSTRUCTION AND 4" DIA. VENT CONNECTION. BASIS FO DESIGN: CALIMAERO "Vke".

DVB-1 CLOTHES DRYER VENT BOX: 22-GAUGE ALUMINIZED STEEL BOX, TOP OUTLET AND MOUNTING FLANGE. BASIS OF DESIGN: DRYER BOX MODEL DB-425.

VC-1 WALL VENT CAP: STAINLESS STEEL VENT CAP. 4" DIA. DUCT CONNECTION, LOUVERED FACE. BASIS OF DESIGN: SEIKO MODEL SX-S.

AIR DEVICES											
GENERAL NOTES: ● REFER TO SPECIFICATIONS FOR OTHER MANUFACTURERS. ● FINISH KEY: "O.W.B.E."- OFF WHITE BAKED ENAMEL, "E.C.L."- ETCHED CLEAR LACQUER OR ANODIZED. ● PROVIDE AUX. FRAMES FOR AIR DEVICES IN PLASTER, GYPSUM BOARD, GLAZED TILE OR CERAMIC TILE SURFACES.											
SYMBOL	DESCRIPTION	TYPE MOUNTING		MATERIAL		FINISH			CATALOG NUMBER	ACCESSORIES	SEE NOTE
		LAY-IN	SURFACE	STEEL	ALUM.	O.W.B.E.	E.C.L.				
A1	SQUARE PLAQUE CEILING DIFFUSER	●		●		●			OMNI		
B1	SUPPLY AIR GRILLE--DOUBLE DEFLECTION		●	●		●			300RL	OBD	
C1	LOUVERED R.A. GRILLE, 12"x24" FACE	●		●		●			350RL		2
C2	LOUVERED R.A. GRILLE		●	●		●			350RL		
D1	PLENUM SLOT DIFFUSER, 1 SLOT, 24" LENGTH	●		●		●			TBD-10		

- 1 CATALOG NUMBERS SHALL CORRESPOND TO TITUS UNLESS NOTED OTHERWISE.
2 TYPE NO. 3 BORDER.

FANS														
GENERAL NOTES: ● SONES VALUES BASED ON A.M.C.A. BULLETINS 300 & 301 MEASURED AT 5 FT. FOR P.R.V.'S. ● MOTOR HORSEPOWERS LISTED ARE TO BE CONSIDERED MINIMUM. ● ROOF & WALL OPENINGS ARE APPROXIMATE. VERIFY SIZE & COORDINATE WITH GENERAL CONTRACTOR. ● BASIS OF DESIGN: COOK (UNLESS NOTED OTHERWISE). ● STEEL FRAMING AROUND ROOF OPENING. WHERE REQUIRED FOR DECK SUPPORT AND WALL LINTEL FOR WALL OPENING BY GENERAL CONTRACTOR.														
UNIT NO.	DESCRIPTION	SERVICE	CFM	STATIC PRESS.	WHEEL DIA.	MAX SONES	MOTOR			APPROX. ROOF/WALL OPENING	REMARKS	MANUFACTURER MODEL NUMBER		
							WATTS	VOLT	PHASE					
EF-1	CEILING EXHAUST FAN	RESTROOM 107	200	0.125	-	4.1	75	120	1	-	1,3,4,5	COOK GC-320		
EF-2	CEILING EXHAUST FAN	RESTROOM 106	200	0.125	-	4.1	75	120	1	-	1,3,4,5	COOK GC-320		
EF-3	CEILING EXHAUST FAN	CUSTODIAL 101A	75	0.125	-	1.0	39	120	1	-	1,3,4,5,7	COOK GC-220		
VF-1	IN-LINE VENTILATION AIR FAN	RESTROOM 106 STORM SHELTER	150	0.25	-	1.5	77	120	1	-	1,3,4,5,7	COOK GN-320		
EF-5	IN-LINE EXHAUST FAN	GARAGE 110	630	0.5	-	-	1/4 HP	120	1	-	2,4,5	COOK 80-SQN-B		
EF-6	IN-LINE EXHAUST FAN	GARAGE 110	630	0.5	-	-	1/4 HP	120	1	-	2,4,5	COOK 80-SQN-B		
SA-1	IN-LINE SUPPLY AIR FAN	GARAGE 110	1260	0.75	-	-	1/2 HP	120	1	-	2,5	COOK 120-SQN-B		
EF-5A	IN-LINE EXHAUST FAN	GARAGE 110	890	0.5	-	-	1/2 HP	120	1	-	2,5,6	COOK 80-SQN-B		
EF-6A	IN-LINE EXHAUST FAN	GARAGE 110	890	0.5	-	-	1/2 HP	120	1	-	2,5,6	COOK 80-SQN-B		
SA-1A	IN-LINE SUPPLY AIR FAN	GARAGE 110	1780	0.75	-	-	1.0 HP	120	1	-	2,5,6	COOK 120-SQN-B		

- 1 DIRECT DRIVE ARRANGEMENT.
2 BELT DRIVE ARRANGEMENT.
3 EXHAUST FAN SHALL BE CONTROLLED BY WALL SWITCH.
4 FAN SHALL HAVE BACKDRAFT DAMPER AND DISCONNECT.
5 EQUAL FAN BY GREENHECK.
6 ALTERNATE GARAGE BAY LAYOUT.
7 CONTROLLEDE BY WALL SWITCH.

DUCT CONSTRUCTION, SEALING AND INSULATION								
DUCT SYSTEM	S.M.A.C.N.A. CLASS			INTERNALLY LINED	EXTERNAL INSULATION	DOUBLE WALL INSULATED	NOT INSULATED	REMARKS
	S.P. CONSTRUCTION	SEAL CLASS	LEAKAGE CLASS					
SUPPLY AIR DUCTWORK	+2.0"	B	12	●	●			1,2
RETURN AIR DUCTWORK	-1.0"	B	12	●	●			1,2
OUTSIDE AIR DUCTWORK	-1.0"	B	12		●			1
EXHAUST DUCT	-1.0"	B	12		●			1

- 1 REFER TO SPECIFICATIONS FOR DUCT CONSTRUCTION, SHEET METAL, DUCT INSULATION, ETC.
2 SUPPLY AIR AND RETURN AIR DUCTWORK SHALL BE INTERNALLY LINED WHERE INDICATED ON DRAWINGS.

VENTILATION SCHEDULE										
MARK	OCCUPANCY CATAGORY	FT^2	NO. PEOPLE	PEOPLE/ 100 FT^2	CFM/ PERSON	CFM/FT^2	REQ CFM	ZONE EFF.	SYSTEM TOTAL CFM	
FURNACE F-1, CONDENSING	WORK ROOM 100	700	20	-	5	0.06	142	0.8	177.5	
UNIT CU-1	CORRIDOR V100,101									
FURNACE F-2, CONDENSING	ROOMS 102 THRU 107	600	5	-	5	0.06	65	0.8	80.75	
UNIT CU-2										

COOLING-HEATING SPLIT SYSTEMS					
GENERAL NOTES: ● REFRIGERANT PIPING - SIZES LISTED ARE APPROXIMATE AND ARE BASED ON SINGLE CIRCUITING. SIZING, NUMBER OF PIPES AND CIRCUITS, ARRANGEMENT, ETC. SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ● ELECTRIC SERVICES FOR OUTDOOR UNIT AND INDOOR UNIT - SINGLE POWER SERVICE TO EACH UNIT BY ELECTRICAL CONTRACTOR. ADEQUACY OF LISTED CIRCUIT SIZES MUST BE VERIFIED BY HVAC CONTRACTOR AND UNIT SUPPLIER. COST FOR INCREASE OR CHANGE OF ELECTRICAL SERVICE FOR EQUIPMENT SELECTED SHALL BE BORNE BY HVAC CONTRACTOR.					
SYSTEM NUMBER		F-1/CU-1	F-2/CU-2		
AREA SERVED		ROOMS 100,V100, 109	ROOMS 101,102, 103,104,105,106,107		
DESCRIPTION		GAS FURNACE & CONDENSING UNIT	GAS FURNACE & CONDENSING UNIT		
UNIT CONFIGURATION		UPFLOW	UPFLOW		
INDOOR UNIT	FAN	CFM	800	800	
		EXTERNAL S.P. IN.	0.8"	0.8"	
		MOTOR HP	0.75	0.75	
		VOLTAGE & PHASE	120V-1PH.	120V-1PH.	
	COOLING	TOTAL MBH	24.0	24.0	
		SENSIBLE MBH	15.7	15.7	
		DB ENTERING AIR DEG. F.	80.0	80.0	
		WB ENTERING AIR DEG. F.	67.0	67.0	
	HEATING	LEAVING AIR DB	62.0	62.0	
		HEATING MBH (INPUT)	40.0	40.0	
OUTDOOR UNIT	HEATING	HEATING MBH (OUTPUT)	39.0	39.0	
		ENTERING AIR TEMP.	62 DEG. F.	62 DEG. F.	
		DESIGN TEMP.	72 DEG. F.	72 DEG. F.	
		OUTSIDE AIR CFM	180	85	
	BASIS OF DESIGN (MFR.)		BRYANT 916SA	BRYANT 916SA	
	DESCRIPTION		CONDENSING UNIT	CONDENSING UNIT	
	NOMINAL TONS		2.0	2.0	
	POWER CIRCUIT (MCA)		12.1	12.1	
	MAX. FUSE AMPS		20.0	20.0	
	VOLTAGE & PHASE		240V-1PH.	240V-1PH.	
REFRIG. LIQUID & SUCTION (APPROXIMATE SIZES)	BASIS OF DESIGN (MFR.)		BRYANT 134SAN	BRYANT 134SAN	
			3/8"L., 1-1/8"S.	3/8"L., 1-1/8"S.	
	CONDENSATE PUMP		-	-	
	LOW AMBIENT OPERATION TO 0 DEG. F.		YES	YES	
	THERMOSTAT		ECOBEE 3-PRO	ECOBEE 3-PRO	

- NOTES:
1 PROVIDE THE FOLLOWING ACCESSORIES FOR FURNACES F-1 AND F-2.
● CONCENTRIC VENT KIT.
● GAS CONVERSION KIT (PROPANE).
● CARTRIDGE MEDIA FILTER (MERV 8) WITH 4" FILTER CABINET.
2 PROVIDE THE FOLLOWING ACCESSORIES FOR CONDENSING UNITS CU-1 AND CU-2.
● LOW AMBIENT PRESSURE SWITCH.
● CRANKCASE HEATER.
● HARD START KIT.
● EVAPORATOR COIL.

1 2
1

- NOTES:
1 STORM SHELTER VENTILATION LOUVER SHALL COMPLY WITH ICC500 AND FEMA 361 STANDARDS.
2 PROVIDE CONTROL DAMPER FOR STORM SHELTER LOUVER L4 AND INTERLOCK WITH FAN VF-1 TO OPEN WHEN FAN IS ENERGIZED.

LOUVER SCHEDULE							
GENERAL NOTES: ● COLOR TO BE SELECTED BY THE ARCHITECT ● MOUNTING HEIGHT IS FROM BOTTOM OF LOUVER TO FINISHED FLOOR.							
UNIT NO.	SERVICE	UNIT FACE DIMENSIONS W/H/D/	MAX. APD. (in. wg.)	NET FREE AREA PERCENTAGE	CFM	MOUNTING HEIGHT (TO BOTTOM)	DUTY
L1	FURNACE F1,F2 OUTSIDE AIR	18"/12"/4"	0.06"	60	265	8'-6"	OUTSIDE AIR
L2	EXHAUST FAN EF-5,EF-6	18"/18"/4"	0.06"	60	630	14'-0"	EXHAUST AIR
L3	SUPPLY AIR FAN SA-1	30"/24"/4"	0.06"	60	1260	14'-0"	SUPPLY AIR
L4	STORM SHELTER O.A.	12"/12"/4"	0.06"	60	150	8'-6"	OUTSIDE AIR
L5	STORM SHELTER VENTILATION FAN VF-1,EF-2	18"/12"/4"	0.06"	60	350	8'-6"	EXHAUST AIR



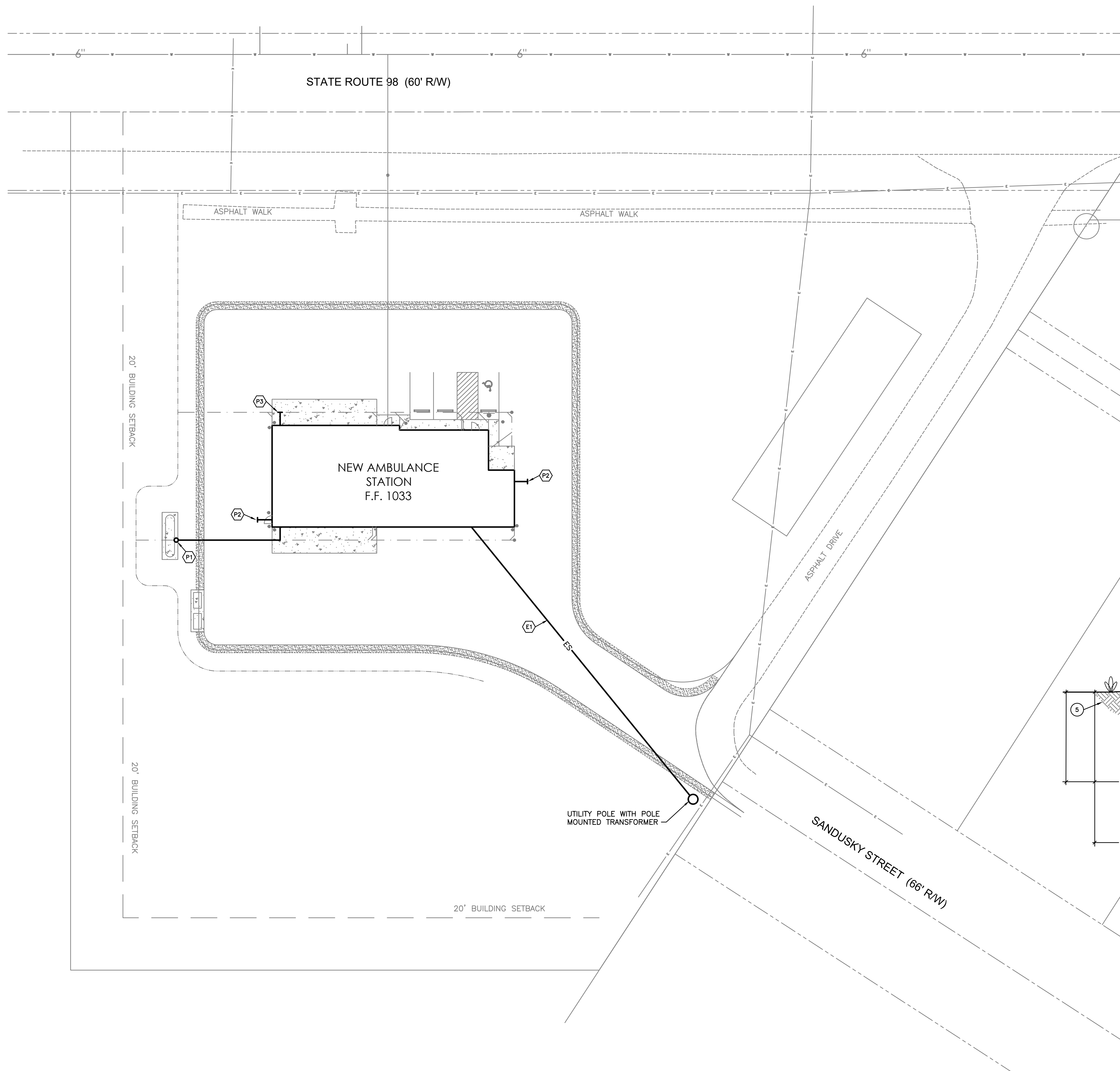
O'Reilly Engineering Group, LLC
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CHECKED BY: POR
PROJECT NUMBER: 2612

H-102
HVAC SCHEDULES

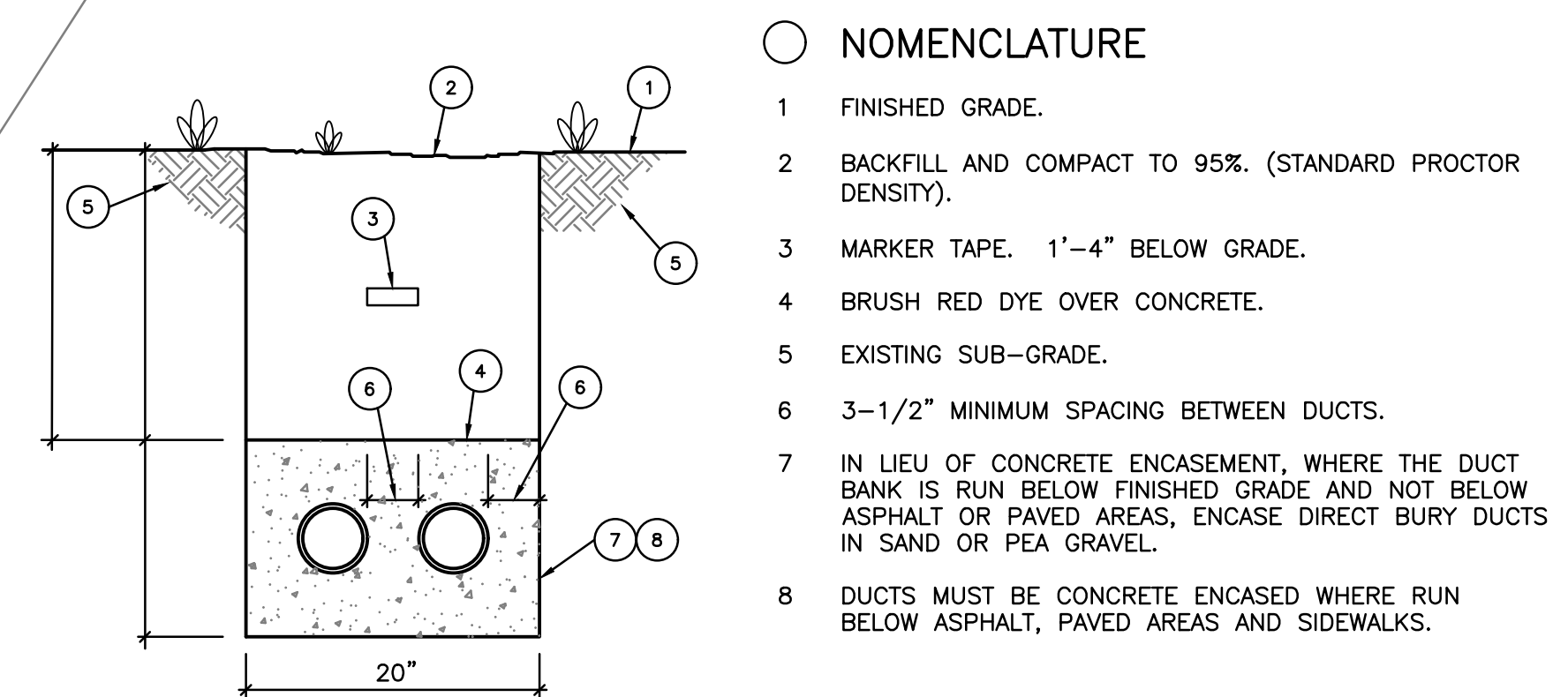


PLUMBING NOTES

- P1 PROPANE GAS SERVICE TO BUILDING. COORDINATE EXACT LOCATION OF THE GAS LINE TERMINATION POINT WITH THE LP GAS UTILITY VENDOR. PROPANE GAS UTILITY VENDOR SHALL CONNECT TO SERVICE VALVE PROVIDED BY PLUMBING CONTRACTOR AT THIS POINT.
- P2 PLUMBING CONTRACTOR SHALL STUB 4" SANITARY SEWER 5'-0" OUTSIDE BUILDING WALL FOR CONTINUATION BY SITE UTILITY CONTRACTOR.
- P3 PLUMBING CONTRACTOR SHALL STUB 1-1/2" DOMESTIC WATER SERVICE LINE 5'-0" OUTSIDE BUILDING WALL FOR CONTINUATION BY SITE UTILITY CONTRACTOR.

ELECTRICAL NOTES

- E1 UNDERGROUND ELECTRICAL SERVICE FROM UTILITY COMPANY POLE TO BUILDING. REFER TO RISER DIAGRAM SHEET E-102, DETAIL A, AND UNDERGROUND DUCT DETAIL THIS SHEET.

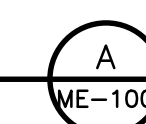


○ NOMENCLATURE

- 1 FINISHED GRADE.
- 2 BACKFILL AND COMPACT TO 95%. (STANDARD PROCTOR
3 DENSITY).
- 4 MARKER TAPE. 1'-4" BELOW GRADE.
- 5 BRUSH RED DYE OVER CONCRETE.
- 6 EXISTING SUB-GRADE.
- 7 3-1/2" MINIMUM SPACING BETWEEN DUCTS.
- 8 IN LIEU OF CONCRETE ENCASEMENT, WHERE THE DUCT
9 BANK IS RUN BELOW FINISHED GRADE AND NOT BELOW
10 ASPHALT OR PAVED AREAS, ENCASE DIRECT BURY DUCTS
11 IN SAND OR PEA GRAVEL.
- 12 DUCTS MUST BE CONCRETE ENCASED WHEN RUN
13 BELOW ASPHALT, PAVED AREAS AND SIDEWALKS.

UNDERGROUND DUCTS

SCALE: NONE

LIFE FIRST AMBULANCE
DISTRICT

LIFE FIRST AMBULANCE STATION

4585 STATE ROUTE 98
SULPHUR SPRINGS, OH 44881



172 E. STATE ST, SUITE 600
COLUMBUS, OH 43215
PHONE: (614) 942-1050
INFO@WEARETRIAD.COM

BIDDING DOCUMENTS

8/17/26

REVISIONS:

#	DATE	DESCRIPTION
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MECH & ELEC UTILITY SITE PLAN

SCALE: 1"=20'



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Project Number: 2026P02

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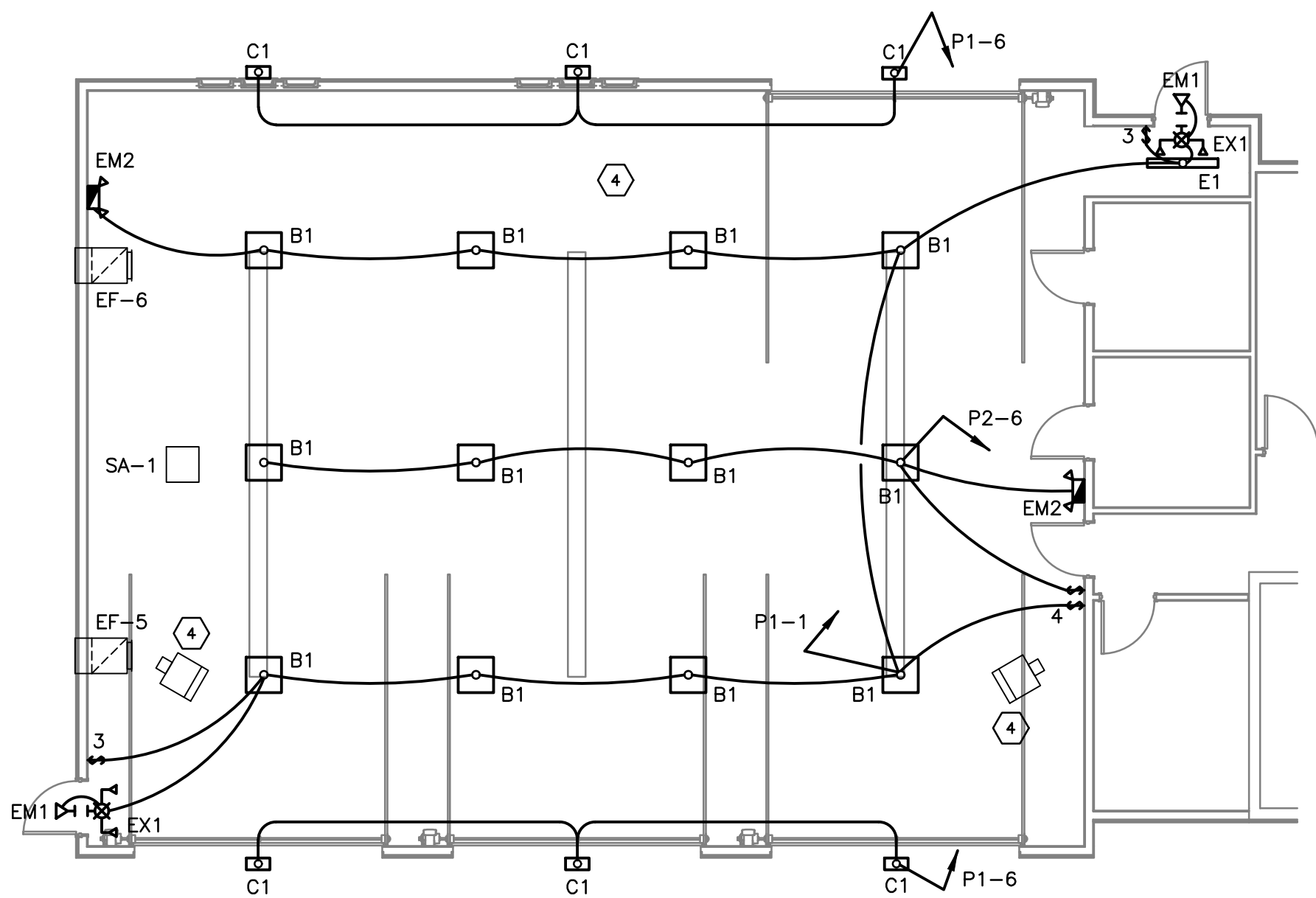
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PROJECT NUMBER: 2612

ME-100

MECH & ELEC UTILITY
SITE PLAN

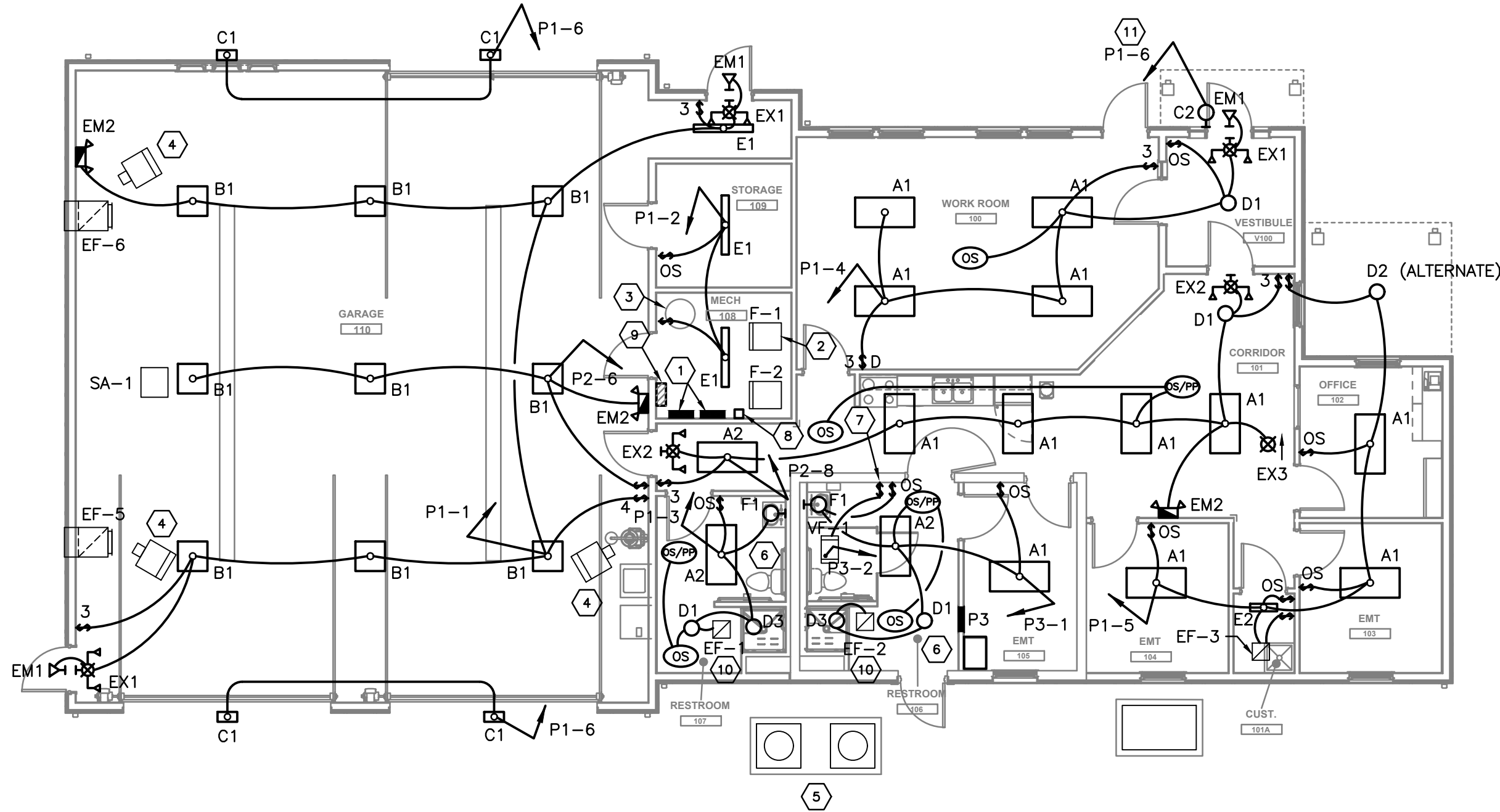
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ELECTRICAL - LIGHTING
GARAGE BAY PLAN - ALTERNATE NO. 3

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



ELECTRICAL - LIGHTING
FLOOR PLAN - BASE BID

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

ELECTRICAL GENERAL NOTES

- COORDINATE THE LOCATION OF ALL LIGHTING FIXTURES SHOWN ON THE DRAWINGS WITH THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION.
- VERIFY THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT PRIOR TO ROUGH-IN. FINAL CONNECTIONS OF EQUIPMENT SHALL BE PER MANUFACTURERS APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
- ALL CONDUITS SHALL BE CONCEALED WITHIN WALLS, CEILINGS OR FLOORS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR PRE-APPROVED BY THE ENGINEER.
- INSTALL A SEPARATE GROUNDING CONDUCTOR, INSULATED GREEN, IN ALL CONDUITS. WHERE WIRING COUNTS ARE INDICATED ON DRAWINGS. THESE WIRING COUNTS EXCLUDE THE GROUNDING CONDUCTOR; HOWEVER, GROUNDING CONDUCTOR IS REQUIRED.
- INCREASE BRANCH CIRCUIT CONDUCTORS TO ACCOMMODATE FOR VOLTAGE DROP. 120V CIRCUITS OVER 100' SHALL BE #10 AWG MINIMUM.
- ALL DEVICES, EQUIPMENT, FIXTURES, ETC., MUST BE GROUNDED BY USE OF A PROPERLY SIZED GROUNDING CONDUCTOR. MECHANICAL/ELECTRICAL BONDS OF THE METALLIC RACEWAY SYSTEM SHALL ALSO BE MAINTAINED.
- CONNECT EXIT AND EMERGENCY LIGHTING FIXTURES TO LOCAL LIGHTING CIRCUIT AHEAD OF LOCAL SWITCHING.
- REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT AND LOCATE DISCONNECT SWITCHES IN ACCORDANCE WITH THE N.E.C.
- PROVIDE AND INSTALL (MIN) #6 INSULATED COPPER GROUND BONDING JUMPER ACROSS INLET AND OUTLET PIPING OF ALL MECHANICAL UNITS AND JUNCTIONS WHERE NON-METALLIC OR DISSIMILAR METALS INTERRUPT THE PATH TO GROUND. THESE ITEMS SHALL INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
 - WATER HEATERS
 - WATER METER

- ELECTRICAL CONTRACTORS SHALL BE RESPONSIBLE FOR ANY CUTTING AND PATCHING REQUIRED FOR THE PROPER INSTALLATION, SUPPORT, OR ANCHORAGE OF ELECTRICAL EQUIPMENT. E.C. SHALL LAYOUT CAREFULLY IN ADVANCE WHERE CUTTING, CHANNELING OR DRILLING IS NECESSARY FOR THE PROPER COMPLETION OF ELECTRICAL WORK. COORDINATE WITH OTHER TRADES AS REQUIRED.
- ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, AND ALL RECEPTACLES SUPPLIED BY THREE PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 100 AMPS OR LESS AND LOCATED IN GARAGE AREAS AND OTHER AREAS REQUIRED BY THIS PROVISION SHALL BE PROVIDED WITH GFCI PROTECTION. NEC 210.8(B) AND (D).
- ALL ELECTRICAL EQUIPMENT AND WIRING METHODS LOCATED IN THE GARAGE AREA SUSCEPTIBLE TO DAMP OR WET ENVIRONMENTS SHALL BE INSTALLED IN ACCORDANCE WITH NEC 314.15.
- PROVIDE A SIGN AT THE ELECTRICAL SERVICE EQUIPMENT THAT INDICATES THE TYPE AND LOCATION OF EACH ON-SITE STANDBY POWER SOURCE. NEC 702.7.

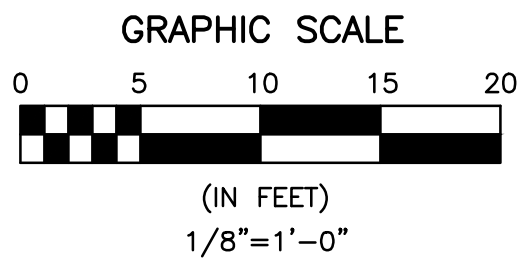
NOTES

- ELECTRICAL PANEL P1 AND P2.
- FURNACE F-1 AND F-2.
- WATER HEATER.
- UNIT HEATER. (TYPICAL)
- CONDENSING UNITS CU-1 AND CU-2.
- ROOM OCCUPANCY SENSOR SHALL CONTROL LIGHTS AND EXHAUST FAN.
- WALL SWITCH SHALL CONTROL STORM SHELTER VENTILATION FAN VF-1.
- TIME SWITCH FOR EXTERIOR LIGHTS. REFER TO EQUIPMENT DATA, SHEET E-102, ITEM ET-1.
- GENERATOR AUTOMATIC TRANSFER SWITCH. (ALTERNATE)
- EXHAUST FAN EF-1 AND EF-2 SHALL BE CONTROLLED BY LIGHT SWITCH.
- CENTER SIGN LIGHT ABOVE SIGN. COORDINATE EXACT LOCATION WITH G.C.

ELECTRICAL LEGEND

(NOT ALL SYMBOLS ON THE LEGEND APPLY TO THIS PROJECT)

EC	ELECTRICAL CONTRACTOR	⏚	DUPLEX RECEPTACLE, 20 AMP, 120 VOLT, 18" HEIGHT UNLESS OTHERWISE NOTED.
HC	HVAC CONTRACTOR	⚡	DOUBLE DUPLEX RECEPTACLE, 20 AMP, 120 VOLT, 18" HEIGHT UNLESS OTHERWISE NOTED.
PC	PLUMBING CONTRACTOR	GF	GFCI TYPE DUPLEX RECEPTACLE, 20 AMP, 120 VOLT, 18" HEIGHT UNLESS OTHERWISE NOTED.
F.P.C.	FIRE PROTECTION CONTRACTOR	WP/GF	GFCI TYPE DUPLEX RECEPTACLE, 20 AMP, 120 VOLT, WITH WEATHERPROOF IN-USE COVER, 18" HEIGHT UNLESS OTHERWISE NOTED.
GC	GENERAL CONTRACTOR	Ⓜ	JUNCTION BOX.
ES	EQUIPMENT SUPPLIER.	ⓧ	DISCONNECT SWITCH.
K.E.C.	KITCHEN EQUIPMENT CONTRACTOR.	▽	COMMUNICATIONS OUTLET. 2-GANG BOX WITH SINGLE GANG COVERPLATE. INSTALL A 1.0" CONDUIT CONCEALED FROM THE BOX AND TURN-OUT AND STUB AND BUSH ABOVE THE CEILING AT AN ACCESSIBLE LOCATION.
WP	WEATHERPROOF	Ⓜ	FIRE ALARM SYSTEM DUCT MOUNTED SMOKE DETECTOR.
EM	EMERGENCY	Ⓜ	FIRE ALARM SYSTEM MANUAL PULL STATION (46" MOUNTING HEIGHT).
AFF	ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE ON DRAWINGS.	Ⓜ	FIRE ALARM SYSTEM COMBINATION HORN-STROBE (90" MOUNTING HEIGHT).
WP	WEATHERPROOF.	Ⓜ	FIRE ALARM SYSTEM CEILING MOUNTED SMOKE DETECTOR.
MH	MOUNTING HEIGHT TO CENTERLINE OF ITEM UNLESS INDICATED OTHERWISE ON DRAWINGS.	Ⓜ	COMBINATION SMOKE/CARBON MONOXIDE DETECTORS.
CKT	CIRCUIT	Ⓜ	FIRE ALARM SYSTEM STROBE LIGHT (90" MOUNTING HEIGHT).
Ⓜ	PLAN NOTE SYMBOL - ONLY APPLIES TO THE SHEET ON WHICH NOTE IS SHOWN.	Ⓜ	FLUSH FLOOR RECEPTACLE/COMMUNICATION OUTLET BOX.
Ⓜ	DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH NOTE IS SHOWN.	Ⓜ	POWER SUPPLY FOR DOOR ACCESS HARDWARE. INCLUDE 120 VOLT CONNECTIONS AND EMPTY CONDUIT PER THE CHOSEN MANUFACTURER'S WIRING DIAGRAMS.
Ⓜ	EQUIPMENT REFERENCE SYMBOL.	Ⓜ	CARD READER.
Ⓜ	CONNECT TO EXISTING SYMBOL.	Ⓜ	PUSH BUTTON DOORBELL.
Ⓜ	APPROXIMATE ELEVATION FROM FLOOR TO BOTTOM OF DUCT, PIPE, DEVICE OR EQUIPMENT ITEM. (TO BE USED AS AID IN COORDINATING THE VARIOUS TRADES.)		
Ⓜ	DENOTES EXISTING DEVICES, EQUIPMENT, ETC.		
Ⓜ	DETAIL "A" SHOWN ON SHEET E101.		
A1	LIGHT FIXTURE; CAPITAL LETTER DENOTES FIXTURE TYPE. LOWER CASE LETTER DENOTES SWITCHING ARRANGEMENT. P1 INDICATES PANEL CIRCUIT NUMBER.		
Ⓜ	WALL MOUNTED LIGHT FIXTURE.		
H1	LIGHT FIXTURE; CAPITAL LETTER DENOTES FIXTURE TYPE. LOWER CASE LETTER DENOTES SWITCHING ARRANGEMENT.		
A1	LIGHT FIXTURE WITH EMERGENCY BATTERY BACKUP.		
A1	LIGHT FIXTURE ON NIGHT LIGHT CIRCUIT.		
Ⓜ	WALL MOUNTED EMERGENCY LIGHT.		
Ⓜ	CONCEALED CONDUIT.		
Ⓜ	NIGHT LIGHT CONDUIT.		
Ⓜ	BRANCH CIRCUIT HOMERUN TO PANELBOARD. WIRE INSTALLED IN CONDUIT. CAPITAL LETTERS INDICATE PANEL. NUMBER INDICATES CIRCUIT.		
Ⓜ	EMERGENCY FLOODLIGHTS WITH INTEGRAL BATTERY.		
Ⓜ	LED EXIT LIGHT, 120V.		
Ⓜ	LED EXIT LIGHT WITH INTEGRAL BATTERY BACK-UP AND EMERGENCY FLOODLIGHTS, 120 VOLT.		
Ⓜ	LIGHT SWITCH - 20 AMP, 120/277 VOLT, 42" MOUNTING HEIGHT.		
Ⓜ	OCCUPANCY SENSOR/VACANCY SENSOR, WALL MOUNT WITH ON/OFF SWITCH AND AN ADJUSTABLE TIME DELAY. HUBBELL #IWZP-3P-W OR EQUAL BY LEVITON OR GREENGATE. 42" MOUNTING HEIGHT.		
Ⓜ	HORSEPOWER RATED DISCONNECT SWITCH.		
Ⓜ	DIMMER SWITCH.		
Ⓜ	OCCUPANCY SENSOR/VACANCY SENSOR, CEILING MOUNT, DUAL-TECHNOLOGY. HUBBELL #OMNI-DT-500-RP-QT1, OR EQUAL BY LEVITON OR GREENGATE.		
Ⓜ	OCCUPANCY SENSOR/VACANCY SENSOR, DUAL-TECHNOLOGY WITH POWER PACK AND REMOTE RELAYS.		



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BIDDING DOCUMENTS

8/17/26

REVISIONS:

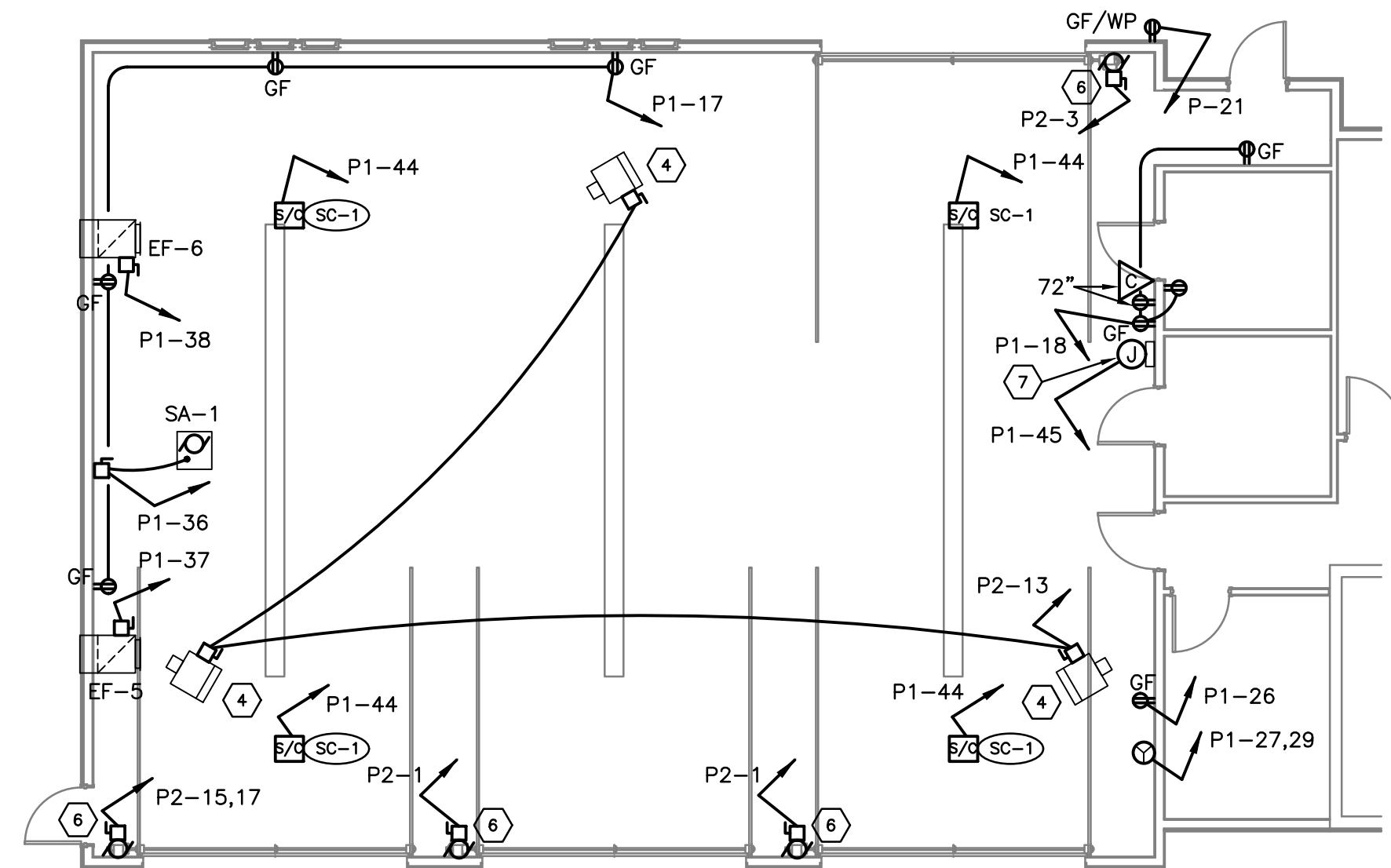
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E-100
ELECTRICAL FLOOR PLAN - LIGHTING

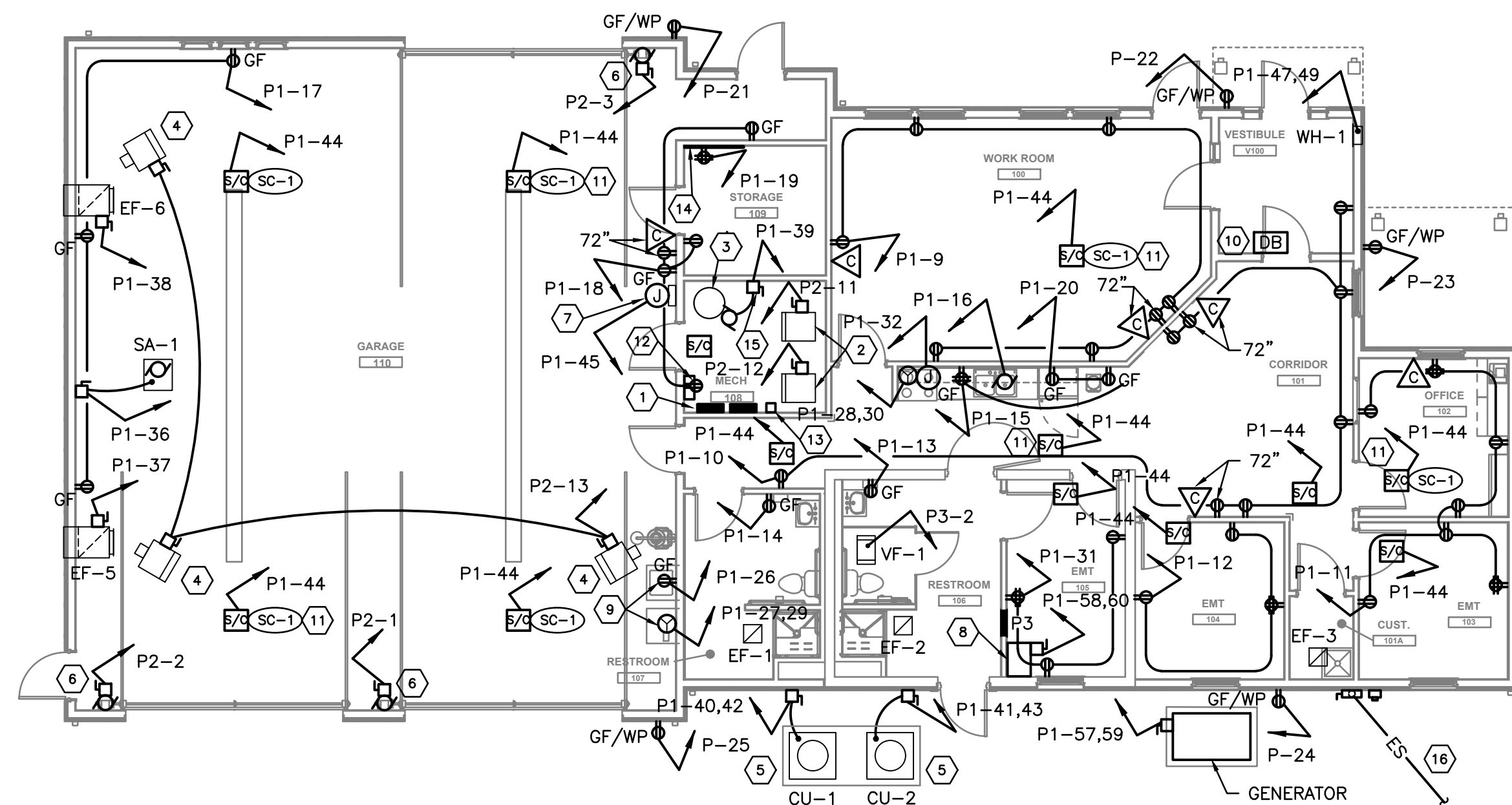
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ELECTRICAL - POWER
GARAGE BAY PLAN - ALTERNATE NO. 3

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

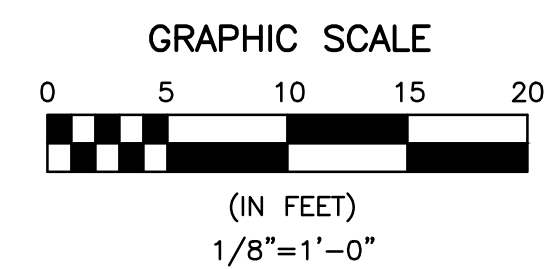


ELECTRICAL – POWER
FLOOR PLAN – BASE BID

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

- **NOTES**

- 1 ELECTRICAL PANEL P1 AND P2.
- 2 FURNACE F-1 AND F-2.
- 3 DOMESTIC HOT WATER HEATER.
- 4 UNIT HEATER. (TYPICAL)
- 5 CONDENSING UNITS CU-1 AND CU-2.
- 6 EXTEND TO THE OVERHEAD DOOR CONTROLLER AND REVERSING SWITCHES PER THE OVERHEAD DOOR MANUFACTURER'S WIRING DIAGRAMS. COORDINATE ALL ELECTRICAL REQUIREMENTS FOR DOOR CONTROLLER WITH G.C. BEFORE START OF ANY WORK.
- 7 GAS MONITOR CONTROL PANEL. REFER TO HVAC DRAWINGS.
- 8 STORM SHELTER INVERTER MOUNTED ON FLOOR WITH EQUIPMENT PADS. REFER TO EQUIPMENT DATA, SHEET E-102, ITEM INV-1.
- 9 CLOTHES WASHER/DRYER.
- 10 PROVIDE JUNCTION BOX FOR PUSH-BUTTON DOOR BELL. COORDINATE WITH OWNER'S COMMUNICATION SYSTEM VENDOR.
- 11 SMOKE AND CARBON MONOXIDE DETECTOR. (TYPICAL) REFER TO EQUIPMENT DATA, SHEET E-102, ITEM SC-1.
- 12 AUTOMATIC TRANSFER SWITCH.
- 13 EXTERIOR LIGHTS TIME SWITCH.
- 14 4'-0" W. X 6'-0" H. X 3/4" PLYWOOD BACKBOARD FOR COMMUNICATIONS EQUIPMENT.
- 15 PROVIDE POWER AND DISCONNECT FOR IN-LINE HWR CIRCULATING PUMP. COORDINATE ALL WORK WITH P.C.
- 16 UNDERGROUND ELECTRIC SERVICE FROM UTILITY COMPANY POLE TO BUILDING. REFER TO RISER DIAGRAM, SHEET E-102, DETAIL "A".



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ELECTRICAL FLOOR PLAN - POWER

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