

GARDENIA WAREHOUSE

2205 GARDENIA DR. AUSTIN, TX



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ABBREVIATIONS

A.B.	ANCHOR BOLT	MAT.	MATERIAL
A.C.	AIR CONDITIONING	MAX.	MAXIMUM
ACCT	ACCENT	MB	MARKER BOARD
ACQUST	ACOUSTICAL	MD	METAL DECK
ADA	AMERICANS WITH DISABILITIES ACT	MDF	MEDIUM DENSITY FIBERBOARD
ADJ	ADJACENT	M.H.	MANHOLE
A.F.F.	ABOVE FINISHED FLOOR	MISC.	MISCELLANEOUS
ALUM.	ALUMINUM	MISC.	MISCELLANEOUS
ALT.	ALTERNATE	MIN.	MINIMUM
A.P.C.	ACRYLIC POLYMER COATING	MIR	MIRROR
APPROX.	APPROXIMATE	MANUF	MANUFACTURER
ARCH.	ARCHITECT/ARCHITECTURAL	M.O.	MASONRY OPENING
ASPH.	ASPHALT	MTD.	MOUNTED
AUTO	AUTOMATIC	MTG	MEETING
AWI	AMERICAN WOODWORKING INST.	MTL	METAL
BD.	BOARD	(N)	NEW
BITUM.	BITUMINOUS	NA	NOT APPLICABLE
BLDG.	BUILDING	NECE.	NECESSARY
BLK	BLOCK	N.C.	NOT IN CONTRACT
BLKG.	BLOCKING	N.T.S.	NOT TO SCALE
B.M.	BENCH MARK	NOM.	NOMINAL
BM	BEAM	NON-COM.	NON-COMBUSTIBLE
BO	BY OTHERS	NO	NO
BO	BOTTOM OF	NO	NUMBER
BRG.	BRACKETS	O.C.	ON CENTER
BSMT.	BASEMENT	O.D.	OUTSIDE DIAMETER
CAB.	CABINET	OF/CI	OWNER FURNISHED CONTRACTOR INSTALLED
CB	CEMENTITIOUS BACKER BOARD	O.H.	OVER HEAD
CP	CARPET	OPG.	OPENING
CHNL.	CHANNELS	OPP.	OPPOSITE
C.J.	CONTROL JOINT	PT.	PAIN
C.L.	CENTERLINE	P.C.	PRECAST CONCRETE
CLG.	CEILING	P.L.	PROPERTY LINE
CLR	CLEAR	PL.	PLATE
C.I.P.	CAST IN PLACE	PLG.	PLUMBING
C.M.U.	CONCRETE MASONRY UNIT	PLAM	PLASTIC LAMINATE
COL.	COLUMN	PLYWD	PLYWOOD
CONC.	CONCRETE	PNL.	PANEL
CONC.	CONCRETE	PR.	PAIR
CONSTR.	CONSTRUCTION	PR.FAB.	PREFABRICATED
COORD.	COORDINATION SPEC. INSTITUTE	PORT.	PORCELAIN TILE
C.T.	CERAMIC TILE	PTN.	PARTITION
CTB	CERAMIC TILE BASE	PO/VNYL	POLYVINYL CHLORIDE
CTP	CERAMIC TILE PAVERS	Q.I.	QUARTZ TILE
C.U.H.	CABINET UNIT HEATER	R	RISER
D	DRYER	RAD.	RADIUS
DBL	DOUBLE	RB	RUBBER BASE
DEMO	DEMOLISH, DEMOLITION	RCP	REFLECTED CEILING PLAN
DEPT.	DEPARTMENT	R.D.	ROOF DRAIN
D.F.	DRINKING FOUNTAIN	RE	REFER/REFERENCE
DIAMETER	DIAMETER	REF	REFRIGERATOR
DISP.	DISPENSER	REINFOR.	REINFORCED
DN.	DOWN	R.F.O.	REFLECTED
DR.	DRYER	RM.	ROOM
DTL.	DOWNSPOUT	ROU	ROOF OPENING
DTL.	DETAIL	R.O.W.	RIGHT OF WAY
DISHWASHER	DISHWASHER	RTU	ROOF TOP UNIT
DWG.	DRAWING	S.A.T.	SUSPENDED ACOUSTICAL TILE
(E)	EXISTING	S.C.	SOLID CORE
E.W.	EACH WAY	SCHED	SCHEDULE
EACH CONC	EACH CONC	SCHED	SCHEDULE
E.I.F.S.	EXTERIOR INSULATION & FINISH SYSTEM	SEAL	SEALER
E.J.	EXPANSION JOINT	SEAL	SEALER
ELEV/EL	ELEVATION	S.E.	SQUARE FOOT/FEET
ELEC.	ELECTRICAL	S.F.	SHEET
ENGR.	ENGINEERED	SHR	SHOWER
ENCL.	ENCLOSURE	SHWR	SHOWER
EPOXY	EPOXY PAINT	SPEC.	SPECIFICATION(S)
EQ.	EQUAL	SPRL.	SPANDREL
EQUIP.	EQUIPMENT	SQ.	SQUARE
EQUIV.	EQUIVALENT	S.S.	STAINLESS STEEL
EX.	EXISTING	STA.	STATION
EXP.	EXPANSION	STC	SOUND TRANSMISSION CLASS
EXP.JT.	EXPANSION JOINT	STD.	STANDARD
EXH.	EXHAUST	S.STL.	STAINLESS STEEL
EXT.	EXTERIOR	STN	STAIN
E.W.C.	ELECTRIC WATER COOLER	SHTG	SHEATHING
FBGL.	FIBERGLASS	SIL	SHEEL
F.D.	FLOOR DRAIN	SIL	SHEEL
FDN.	FOUNDATION	SUPPL.	SUPPLIED
F.E.	FIRE EXTINGUISHER	SUSP.	SUSPENDED
F.E.C.	FIRE EXTINGUISHER CABINET	STOR.	STORAGE
F.F.	FINISHED FLOOR	STR.	STRINGER
F.F.&E.	FURNITURE, FIXTURES & EQUIP	STR.	STRUCTURAL
F.G.	FINISH GRADE	STRUC.	STRUCTURE, STRUCTURAL
F.H.C.	FIRE HOSE CABINET	SYST.	SYSTEM
FIN.	FINISHED	SV	SHEET VINYL
FIN.FLR.	FINISHED FLOOR	T	TREAD (IN PLAN)
FIXT.	FIXTURE	T	TEMPERED (ON WINDOW)
FLD.	FIELD	TB	TACK BOARD
FLR.	FLOOR	TBB	TILE BACKER BOARD
FLRG.	FLOORING	TBD	TO BE DETERMINED
F.O.	FACE OF	T.B.	TOP AND BOTTOM
F.O.S.	FACE OF STUD	T.C.	TOP OF CURB
F.R.	FIRE RESISTIVE	T.C.S.	TONGUE & GROOVE
FR.	FRAME	TEL.	TELEPHONE
FRMG.	FRAMING	TEMP.	TEMPERED
F.R.P.	FIBER REINFORCED PANEL	THK.	THICKNESS
FT.	FOOT/FEET	THLD.	THRESHOLD
FUT.	FUTURE	T.O.	TOP OF
GA.	GAUGE	T.O.B.	TOP OF BEAM
GAL.	GALLON	T.O.C.	TOP OF CONCRETE
GALV.	GALVANIZED	T.O.F.	TOP OF FLOOR/FOOTING
G.C.	GENERAL CONTRACTOR	T.O.M.	TOP OF MASONRY
G.M.	GALVANIZED HOLLOW METAL	T.O.STL	TOP OF SLAB/STEEL
GL.	GLASS	TS	TUBE SECTION
GLU LAM	GLUE LAMINATED WOOD	TV	TYPICAL
GMGU	GLASS MESH GYPSUM UNIT	TYP	TYPICAL
GR.	GRADE	TYPE 'X'	FIRE RATED GYPSUM BOARD
GYP.	GYPSUM BOARD	UPC	UNIFORM BUILDING CODE
H	HEIGHT	UL	UNDERWRITERS LABORATORY
H.B.	HOSE BIB	UNFIN.	UNFINISHED
H.C.	HOLLOW CORE	U.O.N.	UNLESS OTHERWISE NOTED
H.C.	HANDICAP HANDICAPPED	VAR.	VARIES
HDBD.	HARDBOARD	VECT.	VINYL COMPOSITION TILE
HDR.	HEADER	VEST.	VESTIBULE
HDWR.	HARDWARE	VIF	VERIFY IN FIELD
HM	HOLLOW METAL	V.V.C.	VINYL WALL COVERING
HORIZ.	HORIZONTAL	W	WASHER (IN PLAN)
HT.	HEIGHT	W	WIRE GLASS (ON WINDOW)
HTR.	HEATER	W	WITH
HVAC	HEATING VENTILATING & AIR COND.	WD.	WOOD
IC	INTERNATIONAL BUILDING CODE	WDW.	WINDOW
ID.	INSIDE DIAMETER	W.C.	WATER CLOSET
INSUL.	INSULATION	WF	WIDE FLANGE
INT.	INTERIOR	W.H.	WATER HEATER
JAN	JANITOR	W.I.	WROUGHT IRON
JT.	JOINT	W/O	WITHOUT
JST.	JOIST	WP	WATERPROOF
KD.	KNOCK DOWN	WR	WATER RESISTANT
KIT.	KITCHEN	WSCJ	WAINSCOT
LAM.	LAMINATE(D)	WT.	WEIGHT
LAV.	LAVATORY	W.W.F.	WELDED WIRE FABRIC
L.F.	LINEAR FOOT		

SYMBOLS

XXXX	ELEVATION INDICATOR	□	SURFACE MOUNTED FIRE EXTINGUISHER CABINET
△	WINDOW INDICATOR	□	SEMI-RECESSED FIRE EXTINGUISHER CABINET
VESTIBULE [101]	ROOM DESIGNATION	□	SEMI-RECESSED FIRE EXTINGUISHER CABINET
W5	WALL TYPE INDICATOR	□	SEMI-RECESSED FIRE EXTINGUISHER CABINET
100A	DOOR INDICATOR	□	SEMI-RECESSED FIRE EXTINGUISHER CABINET
26	ACCESSORY INDICATOR	□	SEMI-RECESSED FIRE EXTINGUISHER CABINET
LI	CORNER GUARD	□	SEMI-RECESSED FIRE EXTINGUISHER CABINET
VCT	FLOOR MATERIAL TRANSITION INDIC.	□	SEMI-RECESSED FIRE EXTINGUISHER CABINET
1	DRAWING TITLE	□	SEMI-RECESSED FIRE EXTINGUISHER CABINET
13	SECTION REFERENCE	□	SEMI-RECESSED FIRE EXTINGUISHER CABINET
A1.1	EXTERIOR ELEVATION REFERENCE	□	SEMI-RECESSED FIRE EXTINGUISHER CABINET
13	REVISION INDICATOR	□	SEMI-RECESSED FIRE EXTINGUISHER CABINET

MATERIALS

□	EARTH/COMPACT FILL
□	GRAVEL/POROUS FILL
□	CONCRETE (PRECAST OR CAST IN PLACE)
□	SPRAY INSULATION
□	STEEL
□	ALUMINUM
□	CONTINUOUS WOOD BLOCKING
□	NON-CONTINUOUS WOOD BLOCKING
□	WOOD FINISH
□	PLYWOOD
□	GYPSUM BOARD
□	BATT/LOOSE FILL INSULATION
□	RIGID INSULATION
□	CARPET
□	WOOD GLULAM
□	MASONRY

REFER TO CONSTRUCTION SPECIFICATION INSTITUTE, UNIFORM DRAWING SYSTEM AND TO PROJECT SPECIFICATIONS FOR REFERENCE STANDARDS & ADDITIONAL ABBREVIATIONS

GENERAL NOTES

GENERAL REQUIREMENTS

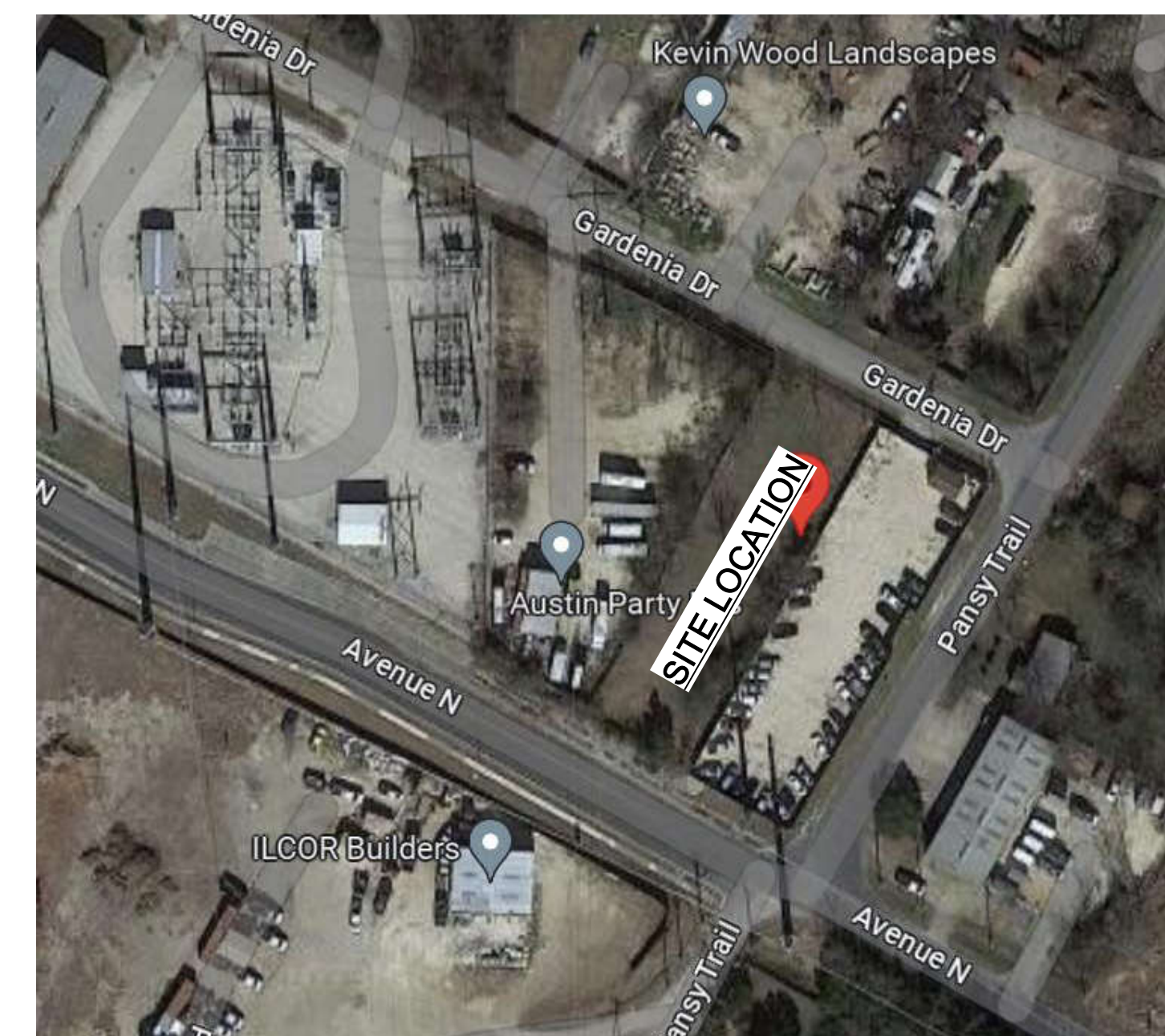
- ATTENTION ALL USERS OF THESE DRAWINGS, GENERAL CONTRACTORS, SUB-CONTRACTORS, MANUFACTURERS, SUPPLIERS: CAREFULLY AND THOROUGHLY REVIEW THESE GENERAL NOTES. IT IS YOUR RESPONSIBILITY TO KNOW AND ADHERE TO THESE REQUIREMENTS.
- THE DRAWINGS AND SPECIFICATIONS ARE SEPARATED INTO DISCIPLINES FOR THE CONVENIENCE OF THE ARCHITECT AND THE CONTRACTOR. THE SEPARATIONS USED HEREIN ARE USED ONLY FOR THE PURPOSES OF CONVENIENCE AND REFERENCE, AND IN NO WAY DO THEY DEFINE OR LIMIT THE SCOPE OR INTENT OF ANY PART OF THE DRAWINGS, OR OF THE DRAWINGS AND SPECIFICATIONS AS A WHOLE. THE FACT THAT THE DRAWINGS ARE SEPARATED IN NO WAY SUGGESTS THAT THE WORK IS NOT TO BE CONSTRUCTED AS A COMPLETE, INTEGRATED AND UNIFIED WHOLE.
- EVERY EFFORT HAS BEEN MADE TO MAKE THESE DOCUMENTS CONCISE AND COORDINATED, TO DEFINE WORK IN THE MOST LOGICAL PLACE AND TO ELIMINATE REDUNDANCY. DO NOT PRESUME THAT YOUR SCOPE OF WORK IS SINGULARLY DEFINED. YOUR SCOPE OF WORK IS DEFINED THROUGHOUT THE ENTIRE SET OF DRAWINGS AND SPECIFICATIONS AND IS NOT CONTAINED IN JUST ONE SERIES OF DRAWINGS OR DIVISION OF SPECIFICATIONS. YOU MUST REVIEW THE ENTIRE SET OF CONTRACT DOCUMENTS TO DETERMINE YOUR SCOPE OF WORK.
- THE DRAWINGS AND SPECIFICATIONS, INCLUDING DRAWINGS PREPARED BY SPECIFIC ENGINEERING DISCIPLINES (SUCH AS CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, ETC.) ARE COMPLEMENTARY. ITEMS SHOWN IN ANY ONE LOCATION IN THE DRAWINGS SHALL BE CONSIDERED TO BE REQUIREMENTS OF THE CONTRACT FOR CONSTRUCTION. IN THE EVENT OF AN INCONSISTENCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, OR WITHIN EITHER DOCUMENT, THE CONTRACTOR SHALL SEEK CLARIFICATION OR INTERPRETATION FROM THE ARCHITECT PRIOR TO BIDDING. WHERE INCONSISTENCIES ARE NOT CLARIFIED PRIOR TO BIDDING, AND WHERE THE ACTUAL SOLUTION OR INTENT CANNOT BE REASONABLY INFERRED, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY OR GREATER QUANTITY OF WORK.
- MECHANICAL AND ELECTRICAL DRAWINGS SHOW INFORMATION IN A DIAGRAMMATIC FASHION WITHOUT DIMENSIONING. THE GENERAL CONTRACTOR IS TO COORDINATE THE LOCATIONS OF ALL M.E. EQUIPMENT WITH RESPECT TO THE ARCHITECTURAL AND STRUCTURAL DETAILING OF SHAFTS, CHASES, ECT...
- THE CONTRACTOR AND ALL SUB-CONTRACTORS SHALL VISIT THE SITE AND BECOME FAMILIAR WITH SITE CONDITIONS AS THEY MAY AFFECT CARRYING OUT THE WORK AS DESCRIBED IN THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL INVESTIGATE, VERIFY, AND BE RESPONSIBLE FOR ALL CONDITIONS OF THE PROJECT, AND NOTIFY THE ARCHITECT OF ANY CONDITIONS THAT REQUIRE MODIFICATION BEFORE PROCEEDING WITH THE WORK.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITY LINES. LOCATIONS SHOWN ARE APPROXIMATE. REPAIR ALL DAMAGE TO UTILITY LINES CAUSED BY CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.
- ALL PERSONS DIRECTLY OR INDIRECTLY ASSOCIATED WITH THE PROJECT SHALL BE FAMILIAR WITH THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT, AND IMPLEMENT THOSE RULES AS THEY APPLY TO THIS PROJECT.
- THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, LABOR, AND SERVICES NECESSARY TO COMPLETE THE WORK.
- ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH THE BUILDING CODE & LOCAL AMENDMENTS. RE: CODE EGRESS AND ACCESSIBILITY SHEET.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL TRADES AND THE PREVENTION OF CONFLICT BETWEEN ALL TRADES.

DRAWINGS AND DIMENSIONS

- DO NOT SCALE THE DRAWINGS.
- ALL DIMENSIONS ON PLANS ARE TO FACE OF BLOCK OR TO FACE OF STUD UNLESS NOTED OTHERWISE.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT IMMEDIATELY SHOULD ANY DISCREPANCIES BE FOUND IN THE DRAWINGS AND SPECIFICATIONS.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL FIELD CONDITIONS AND DIMENSIONS AS THEY RELATE TO THIS PROJECT. SHOULD DISCREPANCIES EXIST BETWEEN THE WORK INDICATED AND ACTUAL FIELD CONDITIONS NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
- ACTUAL CONTRACT LIMITS ARE TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE OWNER BEFORE ACTUAL CONSTRUCTION WORK BEGINS. ANY INDICATION OF PROJECT LIMITS OR LINES OF DEMARCATION ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR, AND ARE NOT TO BE TAKEN LITERALLY.
- SEE GENERAL NOTES ON ALL 'A' SERIES DRAWINGS FOR INFORMATION RELATED TO PLANS AND DETAILS ON THOSE SHEETS.
- THE TERM "ALIGN" REFERS TO LOCATING DIFFERENT COMPONENTS OF CONSTRUCTION TO PROVIDE A FLUSH FINISH SURFACE.
- CONTRACTORS AND ALL SUB-CONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION AND/OR ORDERING OF MATERIALS.
- USE OF THE WORD "VERIFY" POINTS OUT A SITUATION WHICH MUST BE CONFIRMED PRIOR TO PROCEEDING WITH THE WORK, FABRICATION OF EQUIPMENT, OR ORDERING MATERIAL. NOTIFY THE ARCHITECT OF ANY DISCREPANCY.
- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING FIXTURES. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR COMPLETE CONSTRUCTION REQUIREMENTS.
- ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS SHOW WHERE EXPOSED DUCTWORK IS TO BE INSTALLED AT A SPECIFIC ELEVATION IN A CONTROLLED PATTERN. THE CONTRACTOR MUST RELY ON ALL OF THESE DISCIPLINES TO COMPLETE THE WORK AND SHOULD NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
- THE GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES INSTALLING THEIR RESPECTIVE EQUIPMENT IN THE CEILING PLENUMS, MECHANICAL, ELECTRICAL, STRUCTURAL, AND FIRE SPRINKLER SYSTEMS ALL SHARE THIS SAME SPACE. EACH SUB CONTRACTOR IS TO REVIEW THE REQUIREMENTS OF THEIR WORK WITH THE AWARENESS OF THE OTHER TRADES THAT NEED TO SHARE THESE SPACES AND MUST NOT ASSUME THAT THEIR INSTALLATION HAS BEEN CONSIDERED IN THE DESIGN AND SHOP DRAWINGS OF THE OTHER TRADES.

CONSTRUCTION NOTES

- DRAWINGS ARE PREPARED USING DIMENSIONS AND PRODUCT CONFIGURATIONS OR DETAILS OF SPECIFIC MANUFACTURERS (TYPICALLY THE FIRST MANUFACTURER LISTED UNDER "ACCEPTABLE MANUFACTURERS" IN THE SPECIFICATIONS). DIMENSIONS AND DETAILS FOR SPECIFIC PRODUCTS MAY CHANGE BEFORE THEY ARE ACTUALLY INCORPORATED INTO THE WORK, AND PRODUCTS BY OTHER MANUFACTURERS MAY ALSO BE ACCEPTABLE. THEREFORE, ACTUAL INSTALLATION DETAILS AND DIMENSIONS MAY DIFFER FROM THOSE SHOWN. CONTRACTOR SHALL VERIFY INSTALLATION REQUIREMENTS FOR ALL PRODUCTS TO BE INCORPORATED IN THE WORK (INCLUDING PARTITION THICKNESSES FOR RECESSED OR SEMI-RECESSED PRODUCTS), AND IS RESPONSIBLE FOR ACCOMMODATING AND COORDINATING CHANGES TO OTHER MATERIALS OR PRODUCTS THAT ARE NECESSARY BECAUSE OF THESE DIFFERENCES.
- PROVIDE & INSTALL SOLID BLOCKING WITHIN PARTITIONS AT ALL LOCATIONS WHERE ITEMS WILL BE MOUNTED ON PARTITIONS INCLUDING, BUT NOT LIMITED TO: ACCESSORIES, CASEWORK TRIM, FLASHING, WALL MOUNTED EQUIPMENT, TACK/BULLETIN/MARKER BOARDS, ETC.
- ALL WOOD BLOCKING SHALL BE FIRE-RETARDANT TREATED (F.R.T.) WOOD.
- MAINTAIN RATING AT ALL BLOCKOUTS FOR ALL FIRE EXTINGUISHERS AND TOILET ACCESSORIES THAT ARE TO BE INSTALLED IN RATED WALLS.
- PROVIDE & INSTALL 24" X 24" ACCESS PANELS IN PARTITIONS WHERE REQUIRED FOR MECHANICAL EQUIPMENT EXCEPT WHERE SIZES ARE OTHERWISE NOTED.
- PROVIDE & INSTALL GYPSUM BOARD JOINTS IN PARTITIONS AND CEILINGS AT 30'-0" MAX. SPACING. COORDINATE TO MEET FIRE RESISTIVE RATINGS OF THE ASSEMBLY, FIRESTOP JOINTS AT RATED PARTITIONS. SUB-CONTRACTOR MUST PROVIDE A SUBMITTAL FOR JOINT MATERIAL.
- CAULK ALL JOINTS OR CRACKS WHICH OCCUR WHERE DISSIMILAR MATERIALS INTERSECT PERPENDICULAR TO EACH OTHER AND WHERE THE INTERSECTION IS EXPOSED TO VIEW, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- FIREBLOCK ALL CONCEALED SPACES, SOFFITS, SHAFTS, CHASES AND CEILING AREAS PER REQUIREMENTS OF THE 2015 IBC AND THE LOCAL JURISDICTION'S AMENDMENTS.
- PROVIDE & INSTALL SLIP JOINT CONNECTIONS AT PARTITIONS THAT EXTEND TO STRUCTURE ABOVE. PROVIDE BRACING ABOVE AS REQUIRED. REFER TO STRUCTURAL DRAWINGS AND TO SLIP JOINT DETAILS.
- IT IS THE INTENT OF THE DESIGN THAT ALL METAL STUD PARTITIONS BE OF SUFFICIENT WIDTH TO ADEQUATELY ENCLOSE PIPING, CONDUITS, AND RECESSED EQUIPMENT. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WITH THIS INTENT.
- ALL VERTICAL AND HORIZONTAL PIPES, CONDUITS, DUCTS, ETC. IN FINISHED ROOMS OR AREAS THROUGHOUT THE BUILDING SHALL BE FURRED IN TO MATCH THE ROOM FINISH, UNLESS OTHERWISE NOTED.
- WHERE MECHANICAL WORK PENETRATES ANY COMPONENT OF A FIRE-RATED ASSEMBLY, PROVIDE & INSTALL THE APPROPRIATE FIRE AND/OR SMOKE DAMPERS. IF IT IS NOT CLEAR WHETHER DUCTWORK PENETRATES A PORTION OF THE RATED ASSEMBLY, OBTAIN CLARIFICATION FROM THE ARCHITECT PRIOR TO BIDDING. SEAL AROUND ALL PENETRATIONS THROUGH PROPOSED FIRE RATED PARTITIONS. PROVIDE UL APPROVED FIRESTOP SYSTEM TO MEET REQUIRED RATING.
- THE FIRE ALARM SYSTEM WILL BE DESIGNED BY THE INSTALLING SUB-CONTRACTOR. THE GENERAL CONTRACTOR SHALL COORDINATE LAYOUT, CLEARANCES, AND LOCATION OF SYSTEM WITH THE STRUCTURE, MECHANICAL DUCTWORK, ELECTRICAL LIGHTING, DRAINAGE PIPING, AND THE ARCHITECTURAL REFLECTED CEILING PLANS. THE ALARM DESIGN MUST BE COORDINATED WITH THE PROVISIONS OF ALL ENGINEERING AND ARCHITECTURAL DOCUMENTS AND SHOULD NOT RELY SOLELY ON ONE SERIES OF DRAWINGS OR ONE DISCIPLINE. CONTRACTOR SHALL ADJUST OR ADD FIRE ALARM DEVICES TO ACCOMMODATE PARTITION LAYOUT, ALARM SPACING AND PLACEMENT SHALL MEET CODE REQUIREMENTS. SUB-CONTRACTOR SHALL COORDINATE ANY ALARM DEVICE LAYOUT CONFLICTS WITH THE ARCHITECT.
- INTERIOR SIGNAGE TO BE DESIGN BUILD AND COMPLY WITH THE SFO, ANSI 117.1, TAS, AND ADA.

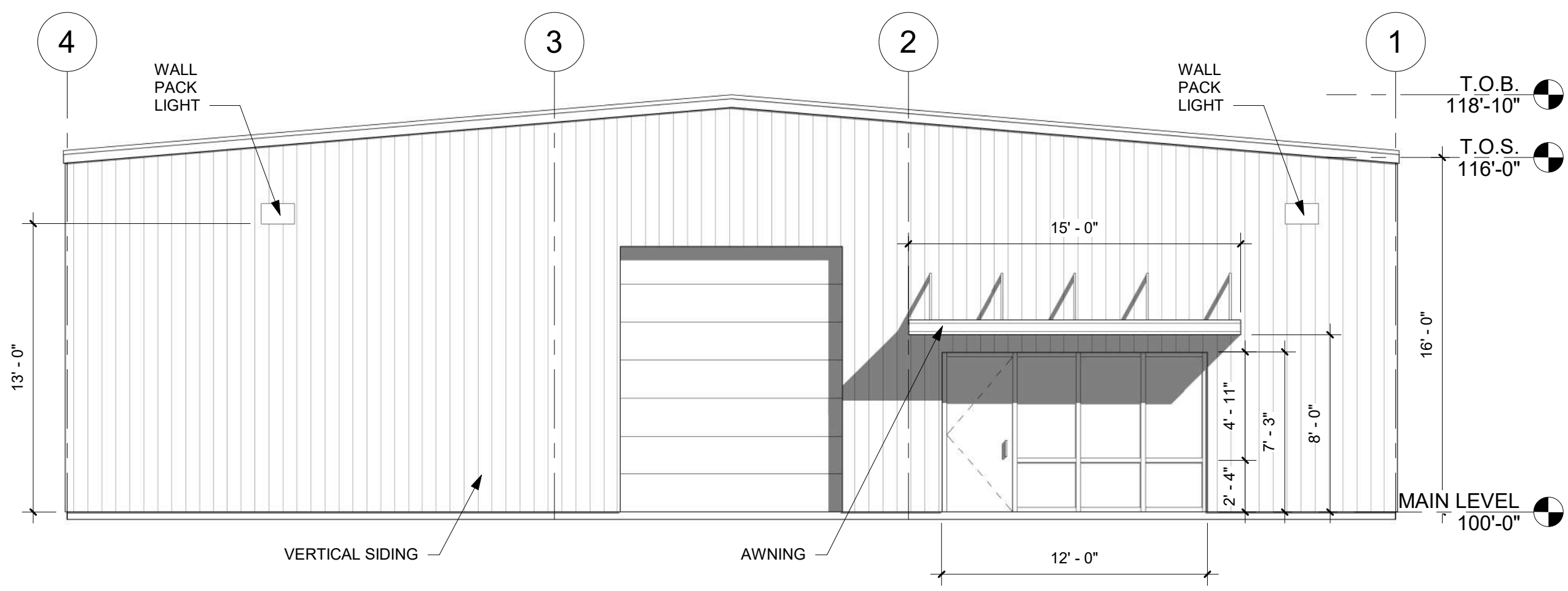


GARDENIA WAREHOUSE

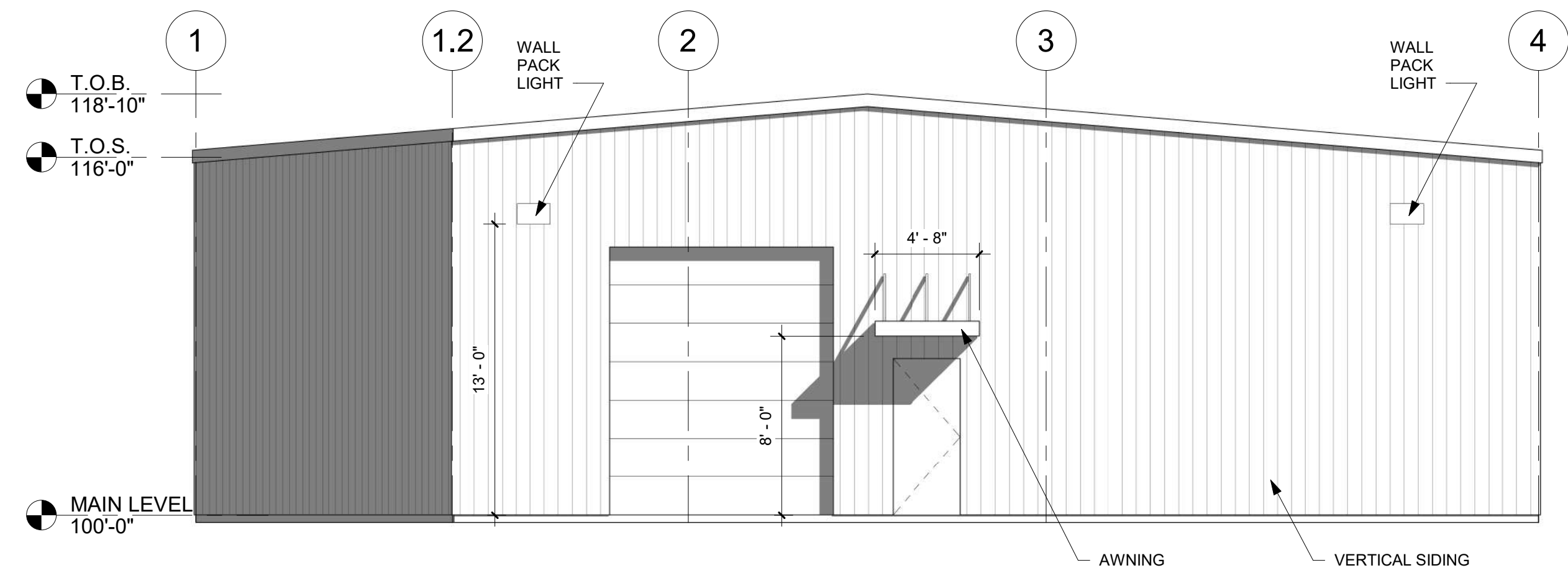
COVER SHEET / GENERAL NOTES

PRESENTATION
DATE: 9-14-2023
DRAWN BY: IP
CHECKED BY: DE

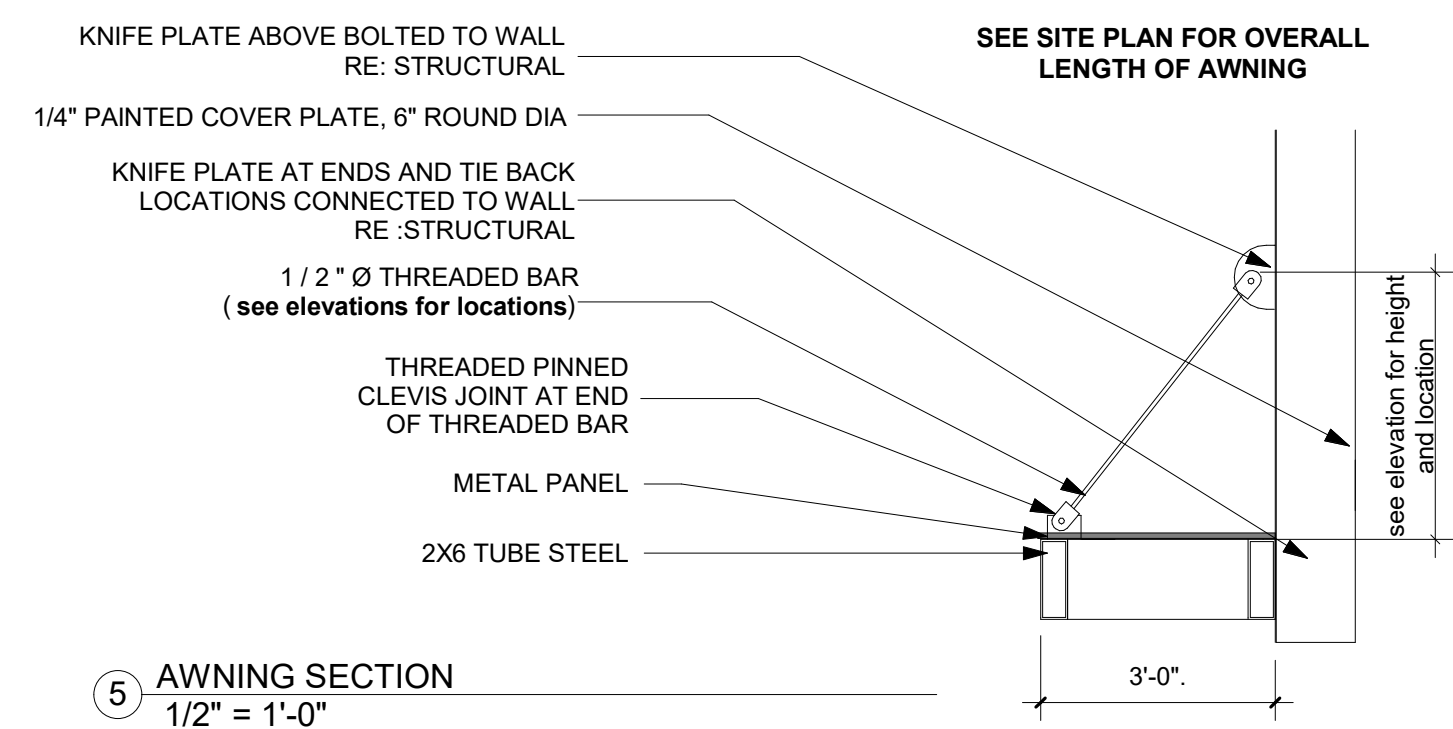
A1



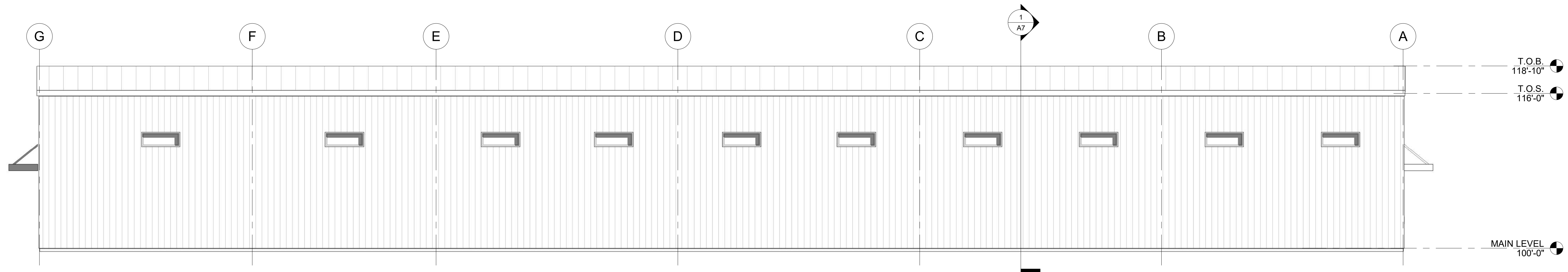
3 ELEVATION 1
 3/16" = 1'-0"



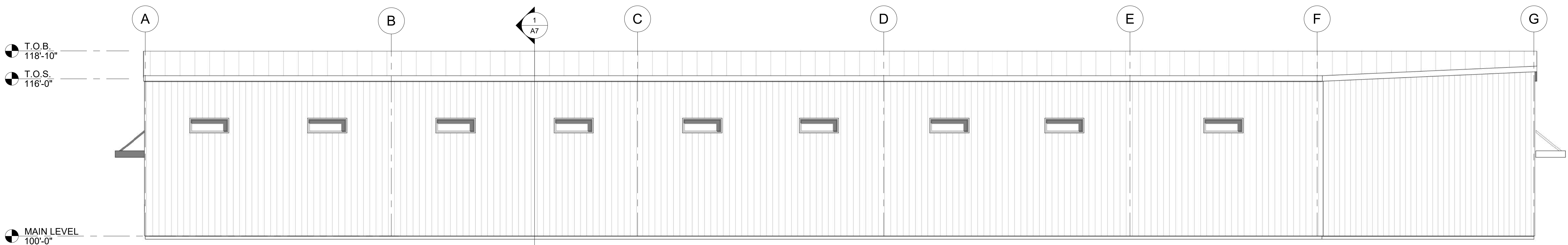
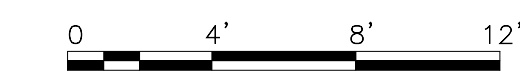
4 ELEVATION 2
 3/16" = 1'-0"



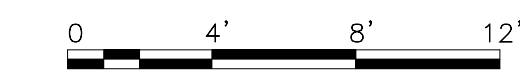
5 AWNING SECTION
 1/2" = 1'-0"



2 ELEVATION 4
 3/16" = 1'-0"



1 ELEVATION 3
 3/16" = 1'-0"



Engineer

High Rise MEP Engineering
 213 Watergate Way
 Hutto, Texas 78634
 designmep@aol.com
 (512) 431 6702
 Mechanical - Electrical
 Plumbing

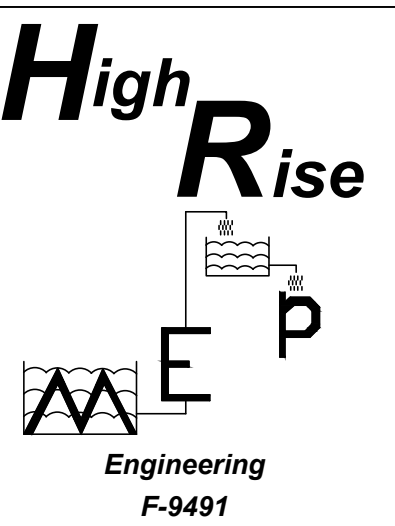
Gardenia Warehouse
2205 Gardenia Drive
Austin, Texas

Heat Pump														
MAKE	OUTDOOR UNIT		SEER2	HSPF2	COOLING BTU/H	HEATING BTU/H	ELECTRICAL MCA / MCOP	W / D / H	WEIGHT	INDOOR UNIT		EVAPORATOR AIR OUTSIDE AIR	W / D / H	WEIGHT
	MARK	MODEL								MARK	MODEL			
LENNOX	CU-1	MLA012S4S-1P	18	10	12,000	12,000	230V / 1Ø / 60HZ 9A / 20A	34 / 14 / 21	88 LBS	EV-1	MMDB012S4-2P	400 CFM 40 CFM	30 / 19 / 7	38 LBS

Outside Air								
Space description	living Area (SQFT)	Outside Air criteria ACH	Outside Air required (CFM)	No. of People	Outside Air criteria (CFM/PERSON)	Minimum Outside Air required (CFM)	Outside Air (A) + (B) (CFM)	Outside Air Provided
OFFICE	340	0.06	20 (A)	2	5	10 (B)	30 CFM	40 CFM BY "EV-1"
NOTE: ① - Table 403.3.1.1 of 2021 UMC.								

Restroom - Exhaust fan							
MARK	MAKE	MODEL NO.	SP	CAPACITIES	AMP / WATT	DUCT SIZE	REMARK
EF	BROAN	L 100 MG	0.125	115 CFM	1.1 / 87	6"	1
1- Install rain cap and bird screen at the end of exhaust duct.							

DIFFUSER						
MARK	MAKE	MODEL #	DESCRIPTION	NECK SIZE	FINISH	REMARKS
A	SPECAIRE	AM5	CEILING DIFFUSER	8,10,12_Ø	OWNER OPTION	16X16
B	SPECAIRE	AM5	CEILING DIFFUSER	4,6_Ø	OWNER OPTION	10X10
R	SPECAIRE	FBH1	RETURN , BACK FILTER	8,10,12_Ø	OWNER OPTION	24X24 & 24X12



Issue Date: 09/18/23

Revisions		
No.	Date	Description



Project Number: 092303
 Drawn By: NE
 Designed By: NE
 Checked By: Naeem Eghani, PE
 Sheet Title: Mechanical spec
 Sheet Number: M-2

STRUCTURAL NOTES

STRUCTURAL NOTES

GENERAL

- THESE GENERAL NOTES SHALL APPLY UNLESS NOTED OTHERWISE ON THE PLANS AND DETAILS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND COORDINATE ALL DETAILS AND DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH RELATED REQUIREMENTS ON ARCHITECTURAL, MECHANICAL, ELECTRICAL AND/OR CIVIL DRAWINGS. THE ARCHITECT OR ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO STARTING WORK.
- WHERE A CONFLICT OCCURS BETWEEN THE SPECIFICATIONS, NOTES ON THE DRAWINGS, GENERAL NOTES AND SPECIFIC DETAILS, THE MORE RESTRICTIVE SHALL GOVERN.
- ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE, 2021 EDITION.
- DO NOT SCALE DRAWINGS.
- THE DESIGN, ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND HAS NOT BEEN CONSIDERED BY THE STRUCTURAL ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE PRIOR TO THE APPLICATION OF ALL PERMANENT LATERAL BRACING, ROOF AND FLOOR DIAPHRAGMS AND FINISH MATERIALS. THE CONTRACTOR SHALL PROVIDE THE NECESSARY BRACING TO INSURE STABILITY PRIOR TO THE APPLICATION OF THE AFOREMENTIONED MATERIALS. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE THE INSPECTION OF THE ABOVE ITEMS.
- VIBRATIONAL EFFECTS OF MECHANICAL EQUIPMENT ARE ASSUMED TO BE NEGLECTABLE TO STRUCTURAL MEMBERS. SEE MECHANICAL DRAWING FOR REQUIRED VIBRATION ISOLATORS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE PERFORMANCE OF THIS WORK.
- DIMENSIONS AND LOCATIONS OF ALL DOOR AND WINDOW OPENINGS SHALL BE DICTATED BY THE ARCHITECTURAL DRAWINGS. FLOOR, WALL AND ROOF OPENINGS AS REQUIRED BY OTHER TRADES SHALL BE VERIFIED FROM SHOP DRAWINGS, EQUIPMENT DATA, ETC.
- ITEMS IDENTIFIED BY A TRADE NAME ARE INDICATIVE OF A LEVEL OF PERFORMANCE OR A GRADE OF MATERIAL. IN ALL SUCH CASES, THE PHRASE "OR APPROVED EQUAL" SHALL APPLY.
- BACKFILL SHALL NOT BE PLACED AGAINST WALLS BEFORE FLOORS OR FRAMING SUPPORTING THE WALLS AT THE BOTTOM AND TOP ARE SECURELY IN PLACE EXCEPT AS SPECIFICALLY STATED IN WRITING BY THE STRUCTURAL ENGINEER.
- PIPES, CONDUIT, DUCTS, ETC., SHALL NOT BE EMBEDDED INSIDE STRUCTURAL MEMBERS UNLESS SHOWN ON THE DRAWINGS OR PERMITTED IN WRITING BY THE STRUCTURAL ENGINEER.

CODES AND SPECIFICATIONS

- 2021 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC).
- ASCE 7-10, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
- ACI 318/2014 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- ACI 304, "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE".
- ACI 301-10 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.
- ACI 305, "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING".
- ACI 347, "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK"
- ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT".

CONCRETE

- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AS FOLLOWS:

USAGE	COMPREHENSIVE STRENGTH	WATER/CEMENT RATIO (MAX.)
SLAB-ON-GRADE, GRADE BEAMS	3,000 PSI	0.45

SUBMITTALS

- SHOP DRAWINGS SHALL BE PREPARED FOR ALL STRUCTURAL ITEMS AND SUBMITTED FOR REVIEW BY THE ENGINEER. CONTRACT DRAWINGS SHALL NOT BE REPRODUCED AND USED AS SHOP DRAWINGS. ALL ITEMS DEVIATING FROM THE CONTRACT DRAWINGS OR FROM PREVIOUSLY SUBMITTED SHOP DRAWINGS SHALL BE CLOUDED.
- THE CONTRACTOR SHALL REVIEW SHOP DRAWINGS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS AND SHALL CERTIFY THAT HE HAS DONE SO BY A STAMP NOTING THAT THE DRAWINGS HAVE BEEN "APPROVED" AND WHICH BEARS THE SIGNATURE (OR INITIALS) OF AN AUTHORIZED REPRESENTATIVE OF THE CONTRACTOR AND THE DATE.
- CORRECTIONS OR COMMENTS ON SHOP DRAWINGS OR MANUFACTURER'S DATA SHEETS DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. THE ENGINEER'S REVIEW IS FOR GENERAL CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND DOCUMENTING. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRECTING ALL QUANTITIES AND DIMENSIONS, SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION AND COORDINATING HIS WORK WITH THAT OF ALL OTHER CONTRACTORS.
- REFER TO INDIVIDUAL SECTIONS FOR SPECIFIC SUBMITTAL REQUIREMENTS.

SOILS AND FOUNDATION

- LOCATE THE BOTTOM OF ALL EXTERIOR FOOTINGS A MINIMUM OF 18" INTO COMPACTED SELECT FILL.
- LOCATE THE BOTTOM OF ALL INTERIOR FOOTINGS A MINIMUM OF 30" TOP OF FINISH CONCRETE SLAB UNLESS OTHERWISE NOTED.
- ALL COMPACTED FILL SHALL HAVE A MINIMUM DENSITY OF 95% OF THE MAXIMUM OBTAINABLE IN ACCORDANCE WITH ASTM D1557.
- THE FOUNDATION DESIGN IS BASED UPON A REPORT BY:
SEC SOLUTIONS, LLC
PROJECT #23192
- SHALLOW FOUNDATION
 - BUILDING SLAB
REMOVE A MINIMUM OF 60" OF TOP SOILS AND REPLACE WITH COMPACTED SELECT FILL TO THE DESIRED FINAL GRADE ELEVATION (MIN. THICKNESS: 2FT). FOLLOW SELECT FILL AND COMPACTION REQUIREMENTS OUTLINE IN THE GEOTECHNICAL REPORT.
DESIGN P: 24, PVR: 2"
ALLOWABLE BEARING PRESSURE: 2,000 PSF (MIN 1.5 FT INTO COMPACTED SELECT FILL)

SUBGRADE PREPARATION

- STRUCTURAL FILL MATERIAL SHALL MEET REQUIREMENTS PRESENTED IN GEOTECHNICAL REPORT ITEM 6.1
- PRIOR TO PLACING FILL MATERIAL, REMOVE ALL ORGANIC AND OTHER DELETERIOUS MATERIAL FROM THE EXISTING SUB GRADE FOR A DISTANCE OF 5'-0" BEYOND BUILDING LINE. ALL EXPOSED SURFACES SHALL THEN BE SCARIFIED TO A DEPTH OF 6 INCHES. WATERED AS REQUIRED AND RE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DEFINED BY ASTM D 698 (STANDARD PROCTOR TEST) AT A MOISTURE CONTENT WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT.
- STRUCTURAL FILL SHALL BE PLACED IN 8 INCH LOOSE LIFTS. WATERED PER PLAN AND COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DEFINED IN ASTM D698 AT A MOISTURE CONTENT WITHIN 4 PERCENT OF THE OPTIMUM MOISTURE CONTENT.
- COMPACTION AND MOISTURE CONTENT OF SUB GRADE AND EACH LIFT OF STRUCTURAL FILL SHALL BE INSPECTED AND APPROVED BY A QUALIFIED ENGINEERING TECHNICIAN, SUPERVISED BY A GEOTECHNICAL ENGINEER.
- STRUCTURAL FILL SHALL NOT BE PLACED BEYOND THE LIMITS OF THE EXTERIOR BUILDING STRUCTURE.
- PROVIDE A 10 MIL POLYETHYLENE VAPOR BARRIER. PLACE VAPOR BARRIER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION OF TOP OF STRUCTURAL FILL.
- SUBGRADE PREPARATION SHALL BE INSPECTED AND APPROVED BY A GEOTECHNICAL ENGINEER.

SLAB ON GROUND

- SOIL SUPPORT SYSTEM: THE SOIL SUPPORT SYSTEM SHOULD BE WELL DRAINED AND PROVIDE ADEQUATE AND UNIFORM LOAD-BEARING SUPPORT.
- VAPOR BARRIER: IF A VAPOR BARRIER OR VAPOR RETARDER IS REQUIRED DUE TO LOCAL CONDITIONS, THESE PRODUCTS SHOULD BE PLACED UNDER A MINIMUM OF 4" OF TRIMMABLE, COMPACTIBLE, GRANULAR FILL (NOT SAND), A USUALLY GRADED FROM 1 1/2" TO 2" DOWN TO ROCK DUST, IS SUITABLE FOLLOWING COMPACTION. THE SURFACE CAN BE CHOCKED OFF WITH A FINE GRADED MATERIAL TO REDUCE FRICTION BETWEEN THE BASE MATERIAL AND THE SLAB. THE RECOMMENDED POLYETHYLENE FILM A THICKNESS OF NOT LESS THAN 10 MILS BE USED.

SLAB ON GROUND (CONT.)

- SAW-CUT JOINTS: THE RECOMMENDED SAW CUTTING SHOULD BE PERFORMED: (I) BEFORE CONCRETE STARTS TO CURE (II) AS SOON AS THE CONCRETE SURFACE IS FIRM ENOUGH TO BE TORN OR DAMAGED BY THE BLADE, AND (III) BEFORE RANDOM - DRYING - SHRINKAGE CRACKS FORM IN THE CONCRETE SLAB. IF SAWING IS UNDULY DELAYED, THE CONCRETE CAN CRACK RANDOMLY BEFORE IT IS SAWED. ADDITIONALLY, DELAY CAN GENERATE CRACKS THAT RUN OFF FROM THE SAW BLADE TOWARD THE EDGE OF THE SLAB AT AN OBTUSE OR SKEWED ANGLE TO THE SAW CUT.
- JOINT FILLING: WHERE THERE ARE WET CONDITIONS, HYGIENIC AND DUST -CONTROL REQUIREMENTS, OR WHERE THE FLOOR IS SUBJECT TO TRAFFIC BY SMALL, HARD-SHEELED VEHICLES SUCH AS FORKLIFTS, CONTRACTION & CONSTRUCTION JOINTS SHOULD BE FILLED AND PROTECTED WITH A SEMIRIGID EPOXY THAT GIVES ADEQUATE SUPPORT TO THE JOINT EDGES AND HAS SUFFICIENT RESISTANCE TO WEAR.

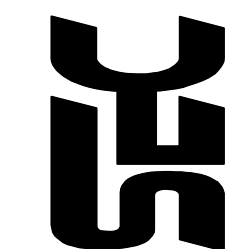
CONCRETE

- CEMENT SHALL CONFORM TO ASTM C150, TYPE V. WATER TO CEMENT RATIO SHALL NOT EXCEED 0.45 UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS IN ACCORDANCE WITH IBC. THE MIX DESIGNS SHALL BE SIGNED AND STAMPED BY A CIVIL ENGINEER REGISTERED IN TEXAS.
- HARDROCK AGGREGATE SHALL CONFORM TO ASTM C33.
- APPROXIMATE AIR-DRY DENSITY FOR HARDROCK CONCRETE SHALL BE 145 PCF.
- LIGHTWEIGHT CONCRETE AGGREGATE SHALL CONFORM TO ASTM C330.
- APPROXIMATE AIR-DRY DENSITY FOR LIGHTWEIGHT CONCRETE SHALL NOT EXCEED 110 PCF.
- ALL CONCRETE OF COMPRESSIVE STRENGTH GREATER THAN 3,000 PSI SHALL HAVE CONTINUOUS INSPECTION BY A REGISTERED DEPUTY INSPECTOR APPROVED BY THE BUILDING DEPARTMENT.
- STRIPPING OF FORMS AND SHORING SHALL BE IN STRICT ACCORDANCE WITH ACI 318, LATEST EDITION.
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF ALL PIPES, CONDUITS, ETC.

CONCRETE REINFORCEMENT

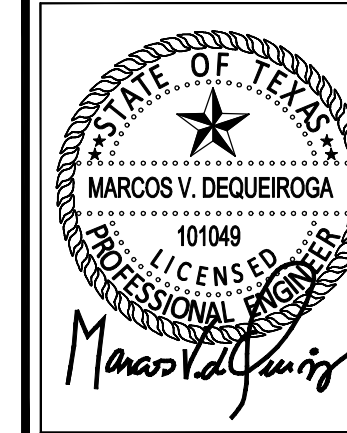
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. REINFORCING TO BE WELDED SHALL BE ASTM A706, GRADE 60.
- LOW HYDROGEN WELDING RODS SHALL BE USED FOR ALL WELDING OF REINFORCING BARS.
- CONTINUOUS REINFORCING SHALL BE SPICED WITH 30 BAR DIAMETERS MINIMUM (COMPRESSION) IN CONCRETE AND MASONRY AND 48 BAR DIAMETERS MINIMUM (TENSION) IN CONCRETE AND MASONRY UNLESS NOTED OTHERWISE.
- REINFORCING BARS SHALL NOT BE REBENT WITHOUT PRIOR WRITTEN APPROVAL OF STRUCTURAL ENGINEER.
- REINFORCING SHALL BE SPICED ONLY AS SHOWN OR NOTED. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
- SPLICES IN ADJACENT HORIZONTAL WALL REINFORCING BARS SHALL BE STAGGERED 4'-0" MINIMUM UNLESS OTHERWISE NOTED. PROVIDE DOWELS IN FOOTINGS AND/OR GRADE BEAMS THE SAME SIZE AND NUMBER AS VERTICAL WALL OR COLUMN REINFORCING. DOWELS SHALL HAVE A MINIMUM PROJECTION EQUAL TO STANDARD LAP SPICE UNLESS OTHERWISE NOTED.
- ALL REINFORCING, ANCHOR BOLTS AND OTHER INSERTS SHALL BE SECURED IN PLACE PRIOR TO PLACING CONCRETE OR GROUTING MASONRY.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- MINIMUM CONCRETE COVER SHALL BE AS SPECIFIED IN ACI 318 9.1. LATEST EDITION.
 - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
 - CONCRETE EXPOSED TO EARTH OR WEATHER:
 - THROUGH NO. 18 BAR 2"
 - 5 BAR, W31 OR D31 WIRE AND SMALLER 1 1/2"
 - CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
 - SLAB, WALL, JOISTS:
 - NO. 14 AND NO. 18 BAR 1 1/2"
 - NO. 11 BAR AND SMALLER 3/4"
- BARS WITH A CARBON EQUIVALENT ABOVE 0.75 SHALL NOT BE WELDED. WELDING SHALL NOT BE DONE ON OR WITHIN TWO BAR DIAMETERS OF ANY PORTION OF A BAR THAT HAS BEEN BENT COLD.

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(512) 215-4364
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COORDINATION DRAWINGS.
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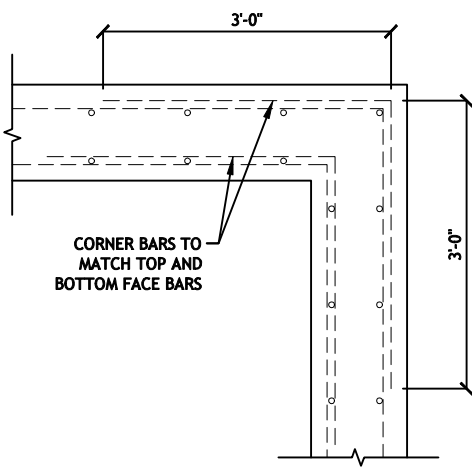


NO.	REVISION	DATE
1.	REVIEW SET	09-18-23

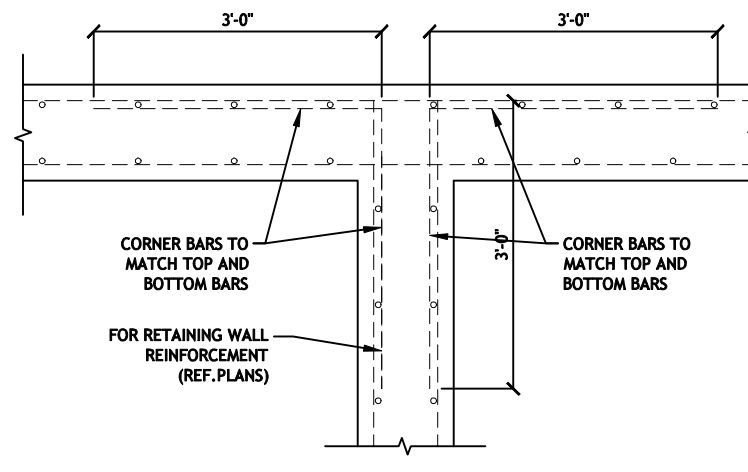
PROJECT: 23192
DATE: 06-28-23
DRAWN BY: RB

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AS NOTED

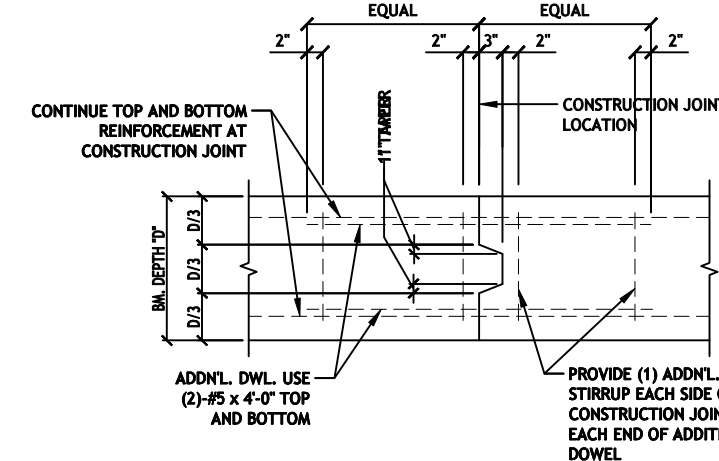
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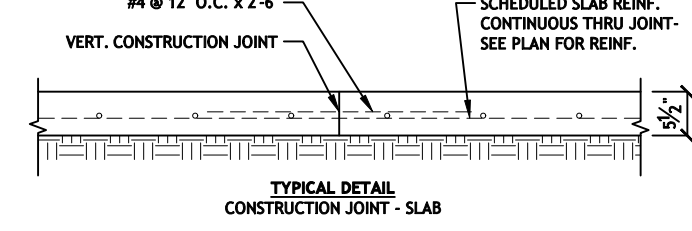
CORNER BAR DETAIL
SCALE: 1/2" = 1'-0"



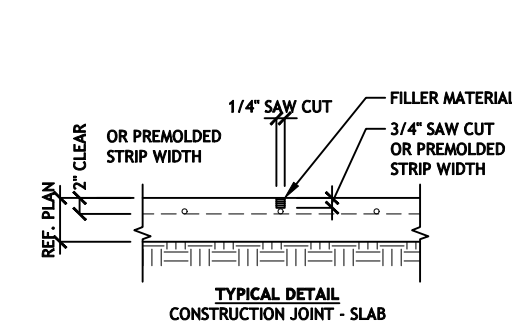
BAR @ INTERIOR INTERSECTION DETAIL
SCALE: 1/2" = 1'-0"



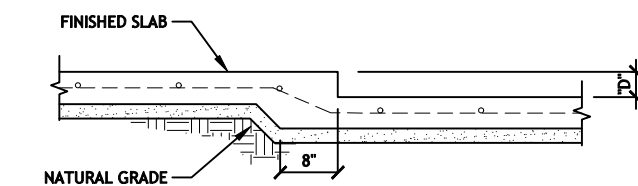
GRADE BEAM CONSTRUCTION JOINT
N.T.S.



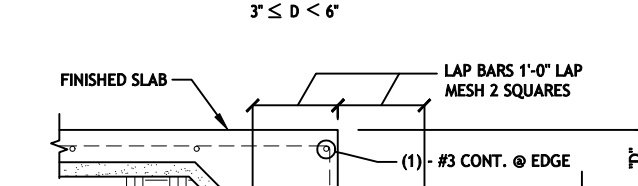
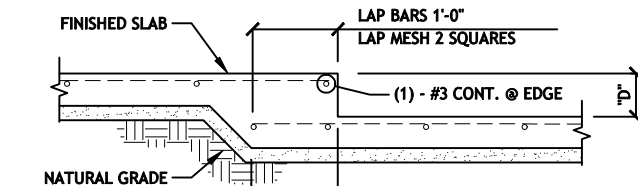
SLAB CONSTRUCTION JOINT
N.T.S.



SLAB CONSTRUCTION JOINT
N.T.S.



FLOOR DEPRESSION DETAIL
SCALE: 1/2" = 1'-0"



FLOOR DEPRESSION DETAIL
SCALE: 1/2" = 1'-0"

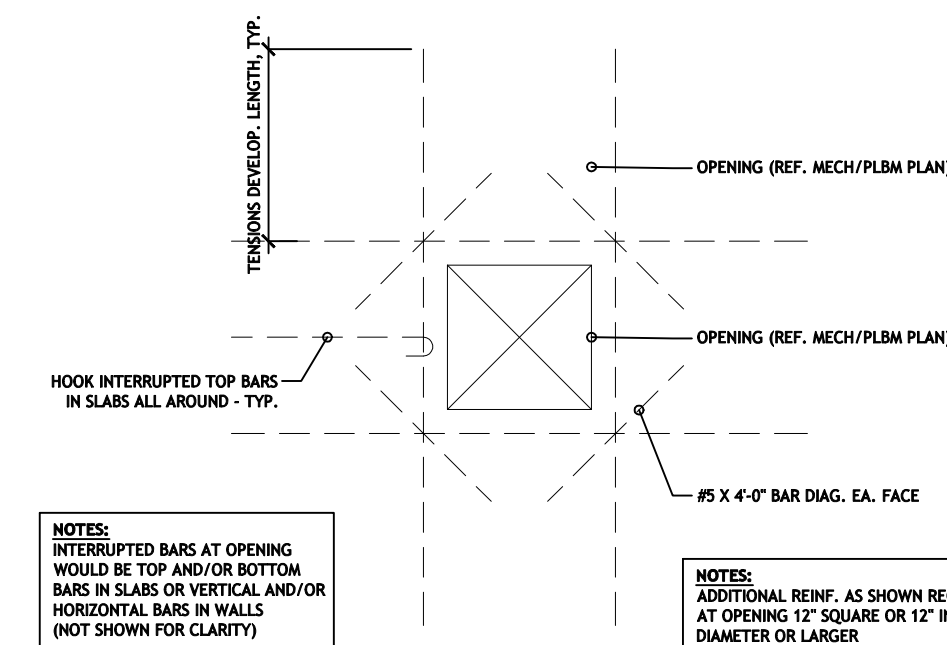
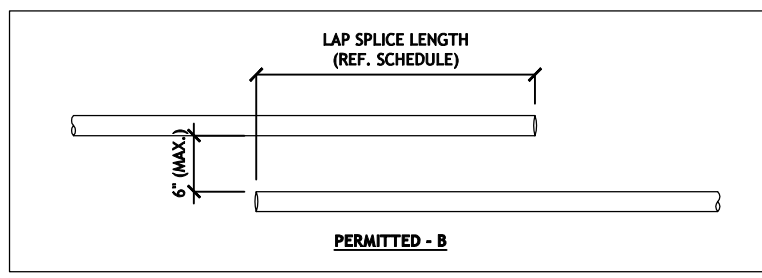
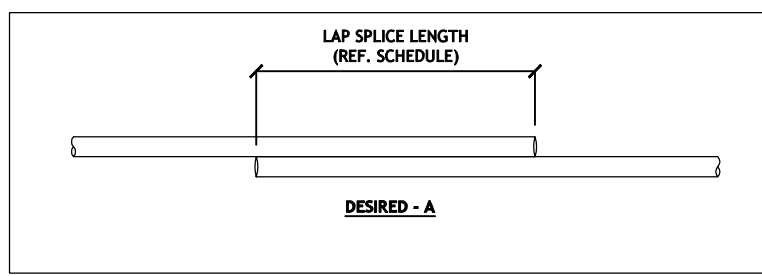
MINIMUM EMBEDMENT WITH STANDARD 90 DEG. (HOOK GRADE 60 STEEL)			
BAR SIZE	CONC. FC = 3000 OR GREATER	CONC. FC = 4000 OR GREATER	CONC. FC = 6000 OR GREATER
#3	0'-6"	0'-6"	0'-6"
#4	0'-8"	0'-7"	0'-6"
#5	0'-10"	0'-9"	0'-8"
#6	0'-11"	0'-10"	0'-9"
#7	1'-2"	1'-0"	0'-11"
#8	1'-4"	1'-2"	1'-0"
#9	1'-6"	1'-3"	1'-2"
#10	1'-8"	1'-5"	1'-4"
#11	1'-10"	1'-7"	1'-5"
#14	2'-0"	2'-9"	2'-5"
#18	2'-2"	3'-7"	3'-3"

LAP SPlice LENGTH (GRADE 60 STEEL)						
BAR SIZE	LAP LENGTH (TOP BARS)	LAP LENGTH (OTHER BARS)	LAP LENGTH (TOP BARS)	LAP LENGTH (OTHER BARS)	LAP LENGTH (TOP BARS)	LAP LENGTH (OTHER BARS)
#3	2'-7"	2'-0"	2'-3"	1'-9"	2'-1"	1'-8"
#4	3'-4"	2'-7"	2'-11"	2'-4"	2'-8"	2'-1"
#5	4'-1"	3'-3"	3'-7"	2'-10"	3'-3"	2'-7"
#6	4'-11"	3'-10"	4'-3"	3'-4"	3'-10"	3'-0"
#7	7'-0"	5'-5"	6'-1"	4'-9"	5'-6"	4'-3"
#8	8'-0"	6'-2"	6'-11"	5'-3"	6'-3"	4'-10"
#9	8'-11"	6'-11"	7'-9"	6'-1"	7'-0"	5'-5"
#10	10'-1"	7'-9"	8'-9"	6'-9"	7'-10"	6'-1"
#11	11'-3"	8'-7"	9'-8"	7'-6"	8'-8"	6'-9"
#14	MECH. COUPLERS	MECH. COUPLERS	MECH. COUPLERS	MECH. COUPLERS	MECH. COUPLERS	MECH. COUPLERS
#18	MECH. COUPLERS	MECH. COUPLERS	MECH. COUPLERS	MECH. COUPLERS	MECH. COUPLERS	MECH. COUPLERS

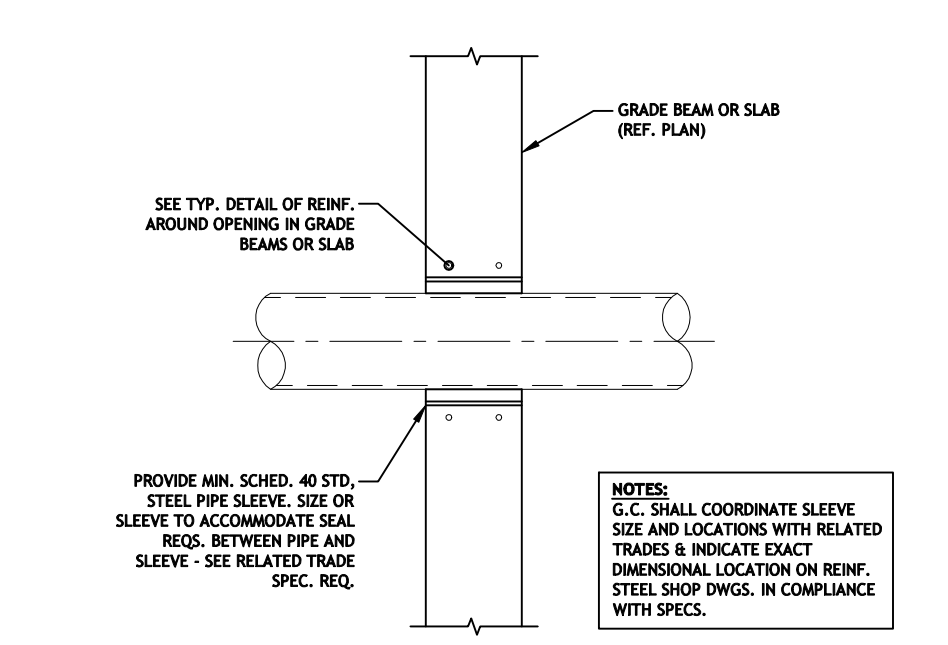
VERT. BARS	LAP SPlice LENGTH
#4	1'-11"
#5	2'-4"
#6	2'-9"
#7	3'-3"
#8	3'-9"
#9	4'-3"
#10	4'-9"
#11	5'-3"
#14	MECH. COUPLERS
#18	MECH. COUPLERS

BAR SPlicing NOTES:
1. SEE DETAILS A THRU B FOR TYPICAL BAR SPlice CONDITIONS.
2. ALL COLUMN BAR SPlices ARE TO BE IN ACCORDANCE WITH SPlice SCHEDULE 1" UNLESS NOTED OTHERWISE.
3. LAP SPlice LENGTHS ARE TO BE CALCULATED BASED ON THE SMALLER BAR BEING LAPPED.
4. ALL COLUMN BAR SPlices IN COLUMNS WHERE THE AREA OF REINFORCING DIVIDED BY THE AREA OF THE COLUMN CROSS SECTION IS GREATER THAN 0.04 (R) SHALL BE MECHANICAL SPlices SINCE THE CODE DOES NOT ALLOW MORE THAN 88.
5. SPlice ALL COLUMN BARS AT EACH FLOOR/COLUMN INTERSECTION. DO NOT SPlice COLUMN BARS BETWEEN FLOOR/COLUMN INTERSECTIONS EVEN IF THE COLUMN SPANS ACROSS MORE THAN MORE LEVEL WITHOUT ACTUALLY INTERSECTING WITH THE FLOOR FRAMING.
6. WHERE VERTICAL BARS ARE OFFSET AT A SPlice, THE SLOPE OF THE INCLINED PORTION OF THE BAR WITH THE AXIS OF THE COLUMN SHALL NOT EXCEED 1:4, AND 3 ADDITIONAL TIES SHALL BE ADDED TO THE TOP OF THE COLUMN CENTERED ON THE BEND.
7. OFFSET LAPPED BARS IN A PLANE NORMAL TO THE TIE.

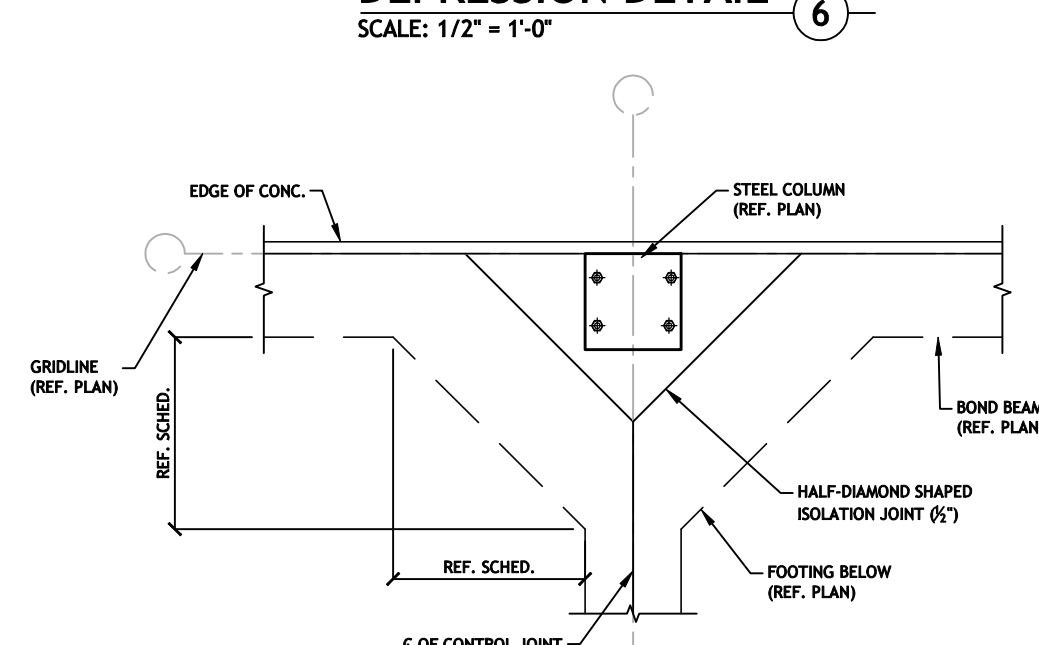
REBAR SPlice SCHEDULE
N.T.S.



TYPICAL DETAIL REINF. AT SLAB OPENINGS
N.T.S.



TYPICAL DETAIL - PIPE/CONDUIT SLEEVE THRU FOUNDATION GRADE BEAM OR SLAB
N.T.S.

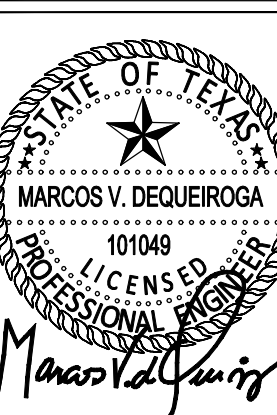


TYPICAL BLOCKOUT PLAN DETAIL
SCALE: 1/2" = 1'-0"

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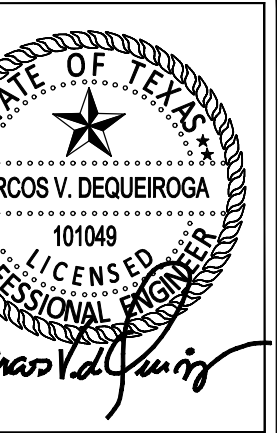
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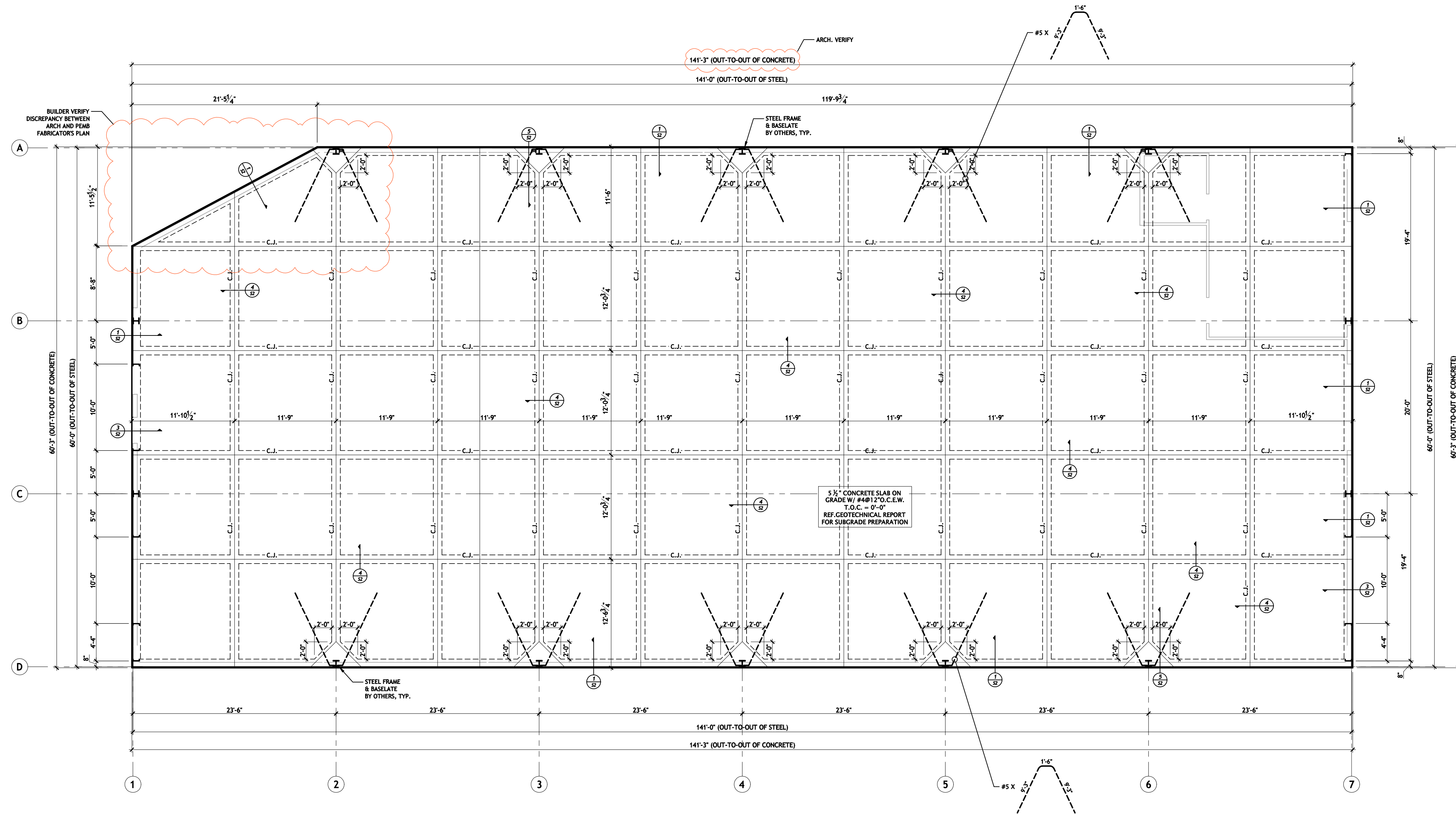
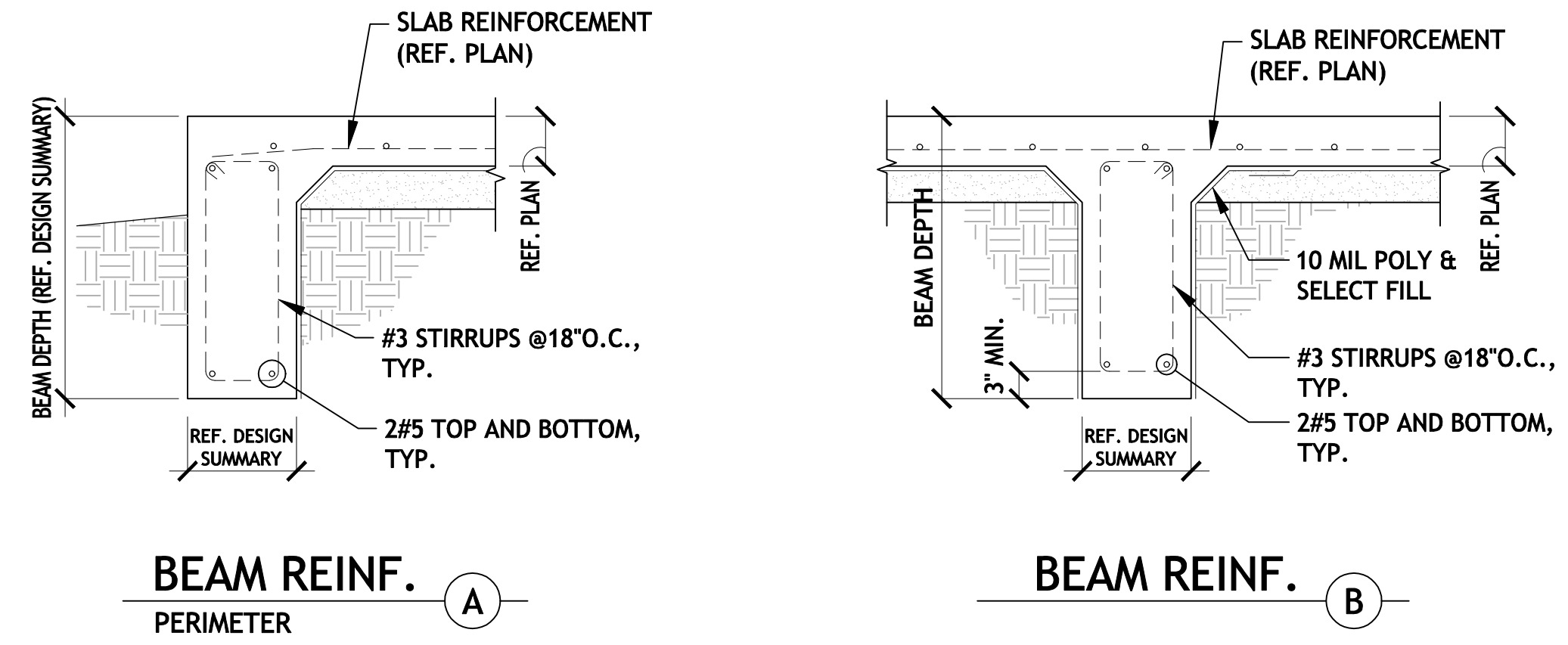
SCALE:
AS NOTED

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- PLAN NOTES**
- FIRST FLOOR TOP OF SLAB ELEVATION 0'-0" (DATUM) UNLESS OTHERWISE NOTED. (REF. CIVIL PLANS FOR FINAL M.S.L.E.)
 - ALL ELEVATIONS SHOWN THUS ARE TO THE TOP OF CONC. ABOVE OR BELOW THE DATUM ELEVATION.
 - CONSTRUCTION/CONTROL JOINT SPACING IN SLAB-ON-GRADE SHALL NOT EXCEED 15'-0" IN ANY DIRECTION. LAYOUT SHOWN ON PLAN IS DIAGRAMMATIC AND A FINAL JOINT LAYOUT PLAN SHALL BE COORDINATED WITH THE ARCHITECT (REF. TYPICAL DETAILS 4 & 5/SO.3)
 - ALL COLUMNS ARE CENTERED ON COLUMN CENTERLINES UNLESS OTHERWISE NOTED.
 - CONTROL SURFACE OR SUB-SURFACE WATER TO ALLOW FOUNDATION WORK TO BE PERFORMED/DONE IN DRY UNDISTURBED CONDITIONS.
 - PIPE SLEEVES FOR UTILITIES ARE TO BE TWO PIPE SIZES LARGER THAN THE PIPE SHOWN ON THE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. VERIFY AND COORDINATE WITH THE INDIVIDUAL TRADE CONTRACTOR AS REQUIRED. COORDINATE WITH MEP DRAWINGS FOR REQUIRED LOCATIONS AND INVERT ELEVATIONS.
 - STAKEOUT/LOCATE THE BUILDING REFERENCE THE CIVIL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
 - COORDINATE ALL DIMENSIONS WITH THE ARCHITECTURAL PLANS AND THE SPECIFIC CONTROL PLAN PREPARED FOR EACH LEVEL AND/OR REFER TO THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. NOTIFY THE ARCHITECT/ENGINEER OF ANY DIMENSIONAL DISCREPANCIES.
 - SIZE AND LOCATION OF ALL FLOOR OPENINGS TO BE COORDINATED WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS.

- GEOTECHNICAL SUMMARY**
- GEOTECHNICAL REPORT BY:
SEC SOLUTIONS LLC
 - PROJECT NUMBER: 23192
 - DESIGN PI: 24
 - ALLOWABLE BEARING CAPACITY:
2,000 PSF (COMPACTED FILL)

- DESIGN SUMMARY**
- CONCRETE COMPRESSIVE STRENGTH (28 DAYS):
3000 PSI
 - SLAB THICKNESS: 4 IN
 - INTERIOR BEAM DIMENSIONS:
WIDTH: 12"
DEPTH: 30"
 - EXTERIOR BEAM DIMENSIONS:
WIDTH: 12"
DEPTH: 30" MIN. (PLAN NOTE 4)

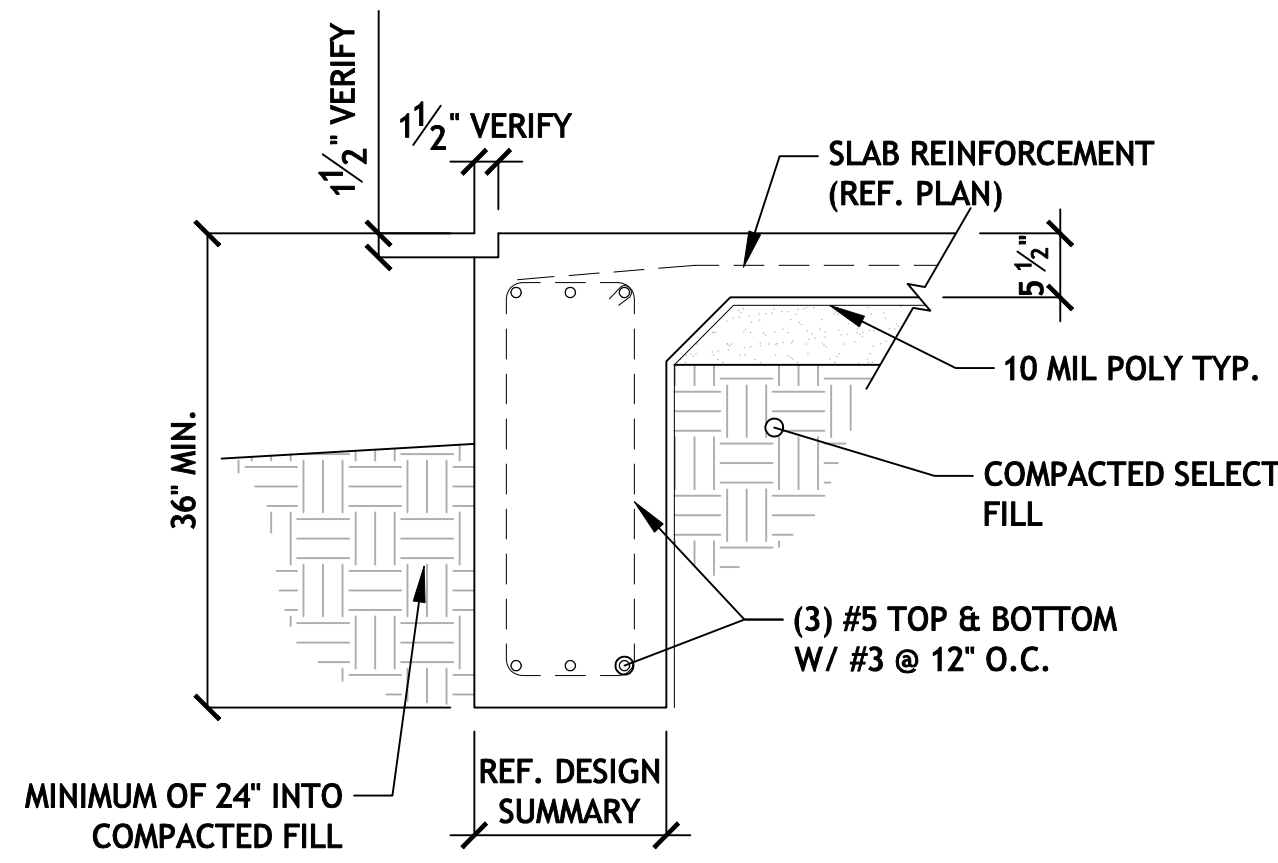


- SITE PREPARATION NOTES:**
- ALL REQUIREMENTS TO FOLLOW THE REQUIREMENTS OUTLINED IN GEOTECHNICAL REPORT BY SEC SOLUTIONS LLC (REPORT #23192). CONTRACTOR MUST BE FAMILIAR WITH SPECIFIC REQUIREMENTS OF THE REPORT AND IMPLEMENT THEM AS INDICATED IN THE REPORT. ANY QUESTIONS ABOUT THE SITE PREPARATION REQUIREMENTS SHOULD BE DIRECTED TO THE GEOTECHNICAL ENGINEER.
 - REMOVE EXISTING NATURAL CLAYS TO A DEPTH OF 5FT (MIN.) BELOW GRADE. REMOVAL OF MATERIAL SHALL EXTEND 5FT BEYOND BUILDING FOOTPRINT.
 - PROOFROLL EXPOSED SURFACE TO ELIMINATE POTENTIAL SOFTSPOTS. REFER TO GEOTECHNICAL INVESTIGATION FOR ADDITIONAL REQUIREMENTS.
 - SELECT FILL MATERIAL, (E.G., ROAD BASE) TO BE PLACED IN 6 TO 8 INCHES LIFTS AND COMPACTED TO 95% OF THE MODIFIED PROCTOR (ASTM D1557).
 - FILL MATERIAL SHALL BE COMPOSED OF CRUSHED LIMESTONE MEETING ALL OF THE REQUIREMENTS OF 2014 TXDOT ITEM 247, TYPE A, GRADE 1 OR 2.
 - CONTRACTOR TO GUARANTEE THAT EXISTING FILL IS FREE OF ORGANICS, TOPSOIL, LARGE BOULDERS OR OTHER DELETERIOUS MATERIALS.
 - CONTRACTOR TO RETAIN A 3RD PARTY COMPANY TO PERFORM QUALITY CONTROL OF THE PLACEMENT AND COMPACTION OF SELECT FILL. RECORDS FOR THE SAMPLING AND TEST RESULTS MUST BE SUBMITTED TO THE GEOTECHNICAL COMPANY AND SEC SOLUTIONS LLC FOR REVIEW AND APPROVAL.

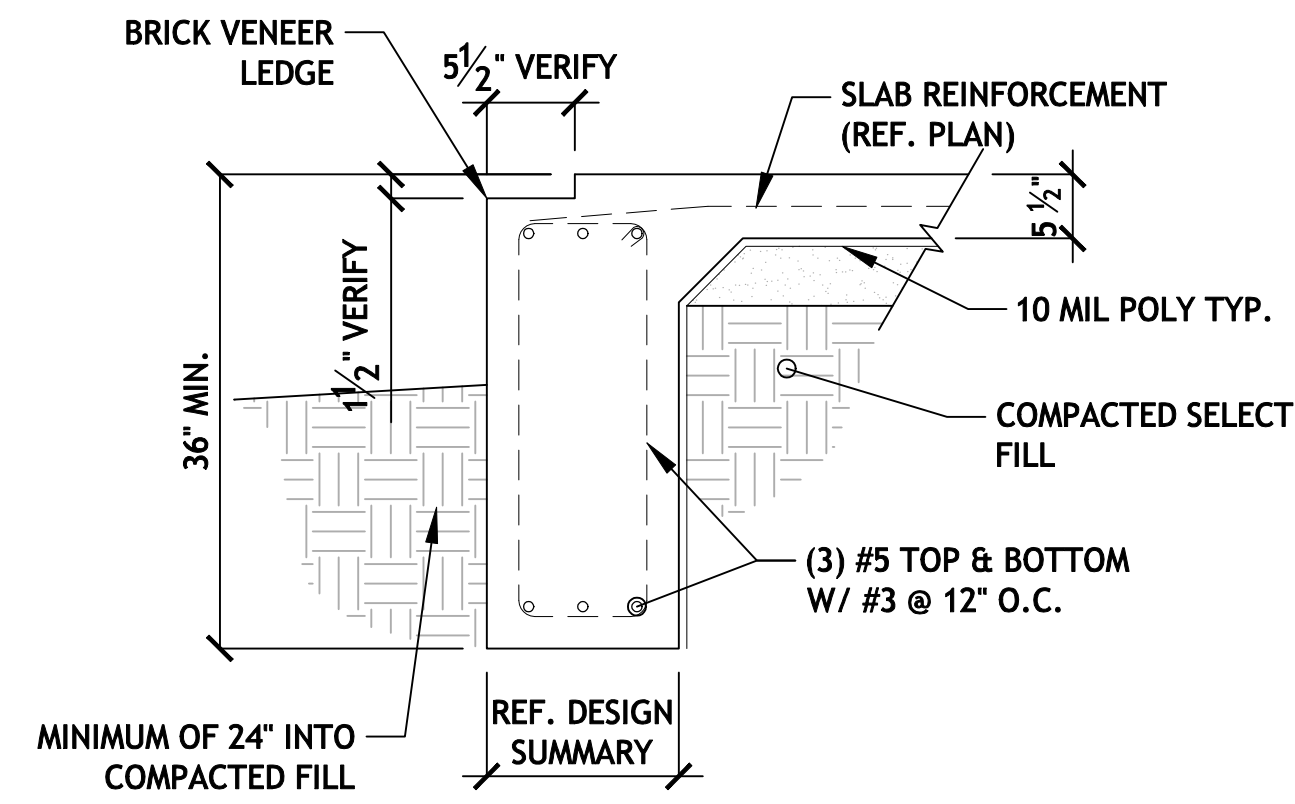
CONTRACTOR TO VERIFY FINAL DIMENSIONS WITH ARCHITECTURE. CONCRETE FORM CONSTRUCTION TO BE SET BY ARCHITECTURAL PLANS/DIMENSIONS ONLY

PRE-POUR INSPECTION BY SEC REPRESENTATIVE IS REQUIRED. TO SCHEDULE CONTACT OFFICE@SECTEXAS.COM OR CALL 512-215-4364

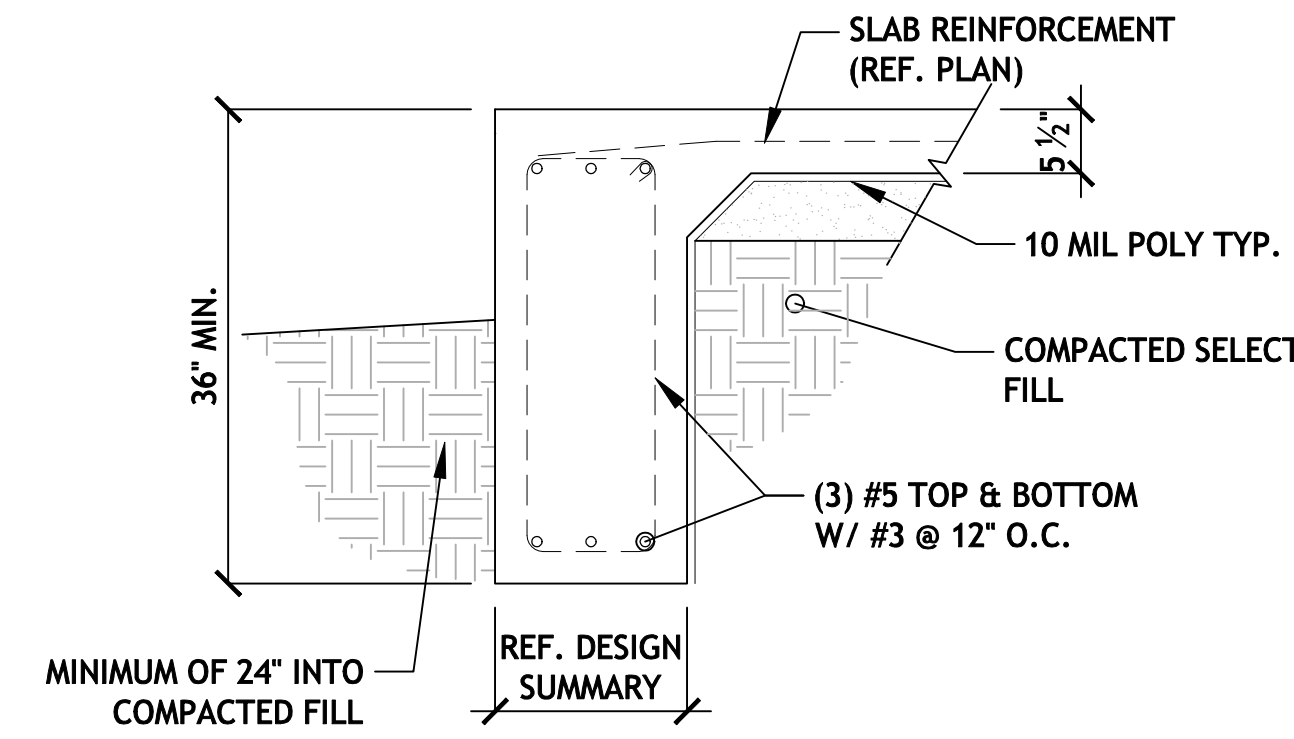
FOUNDATION PLAN
SCALE: 1/8" = 1'-0"



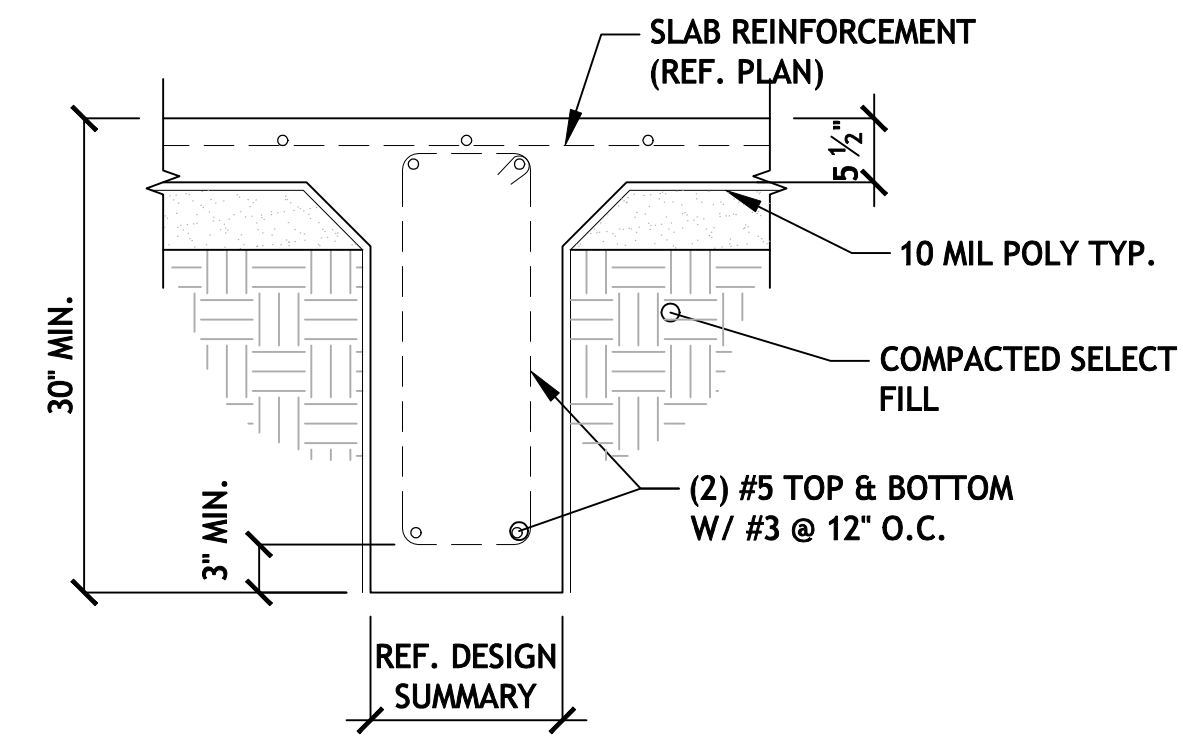
TYPICAL EXTERIOR BEAM ①



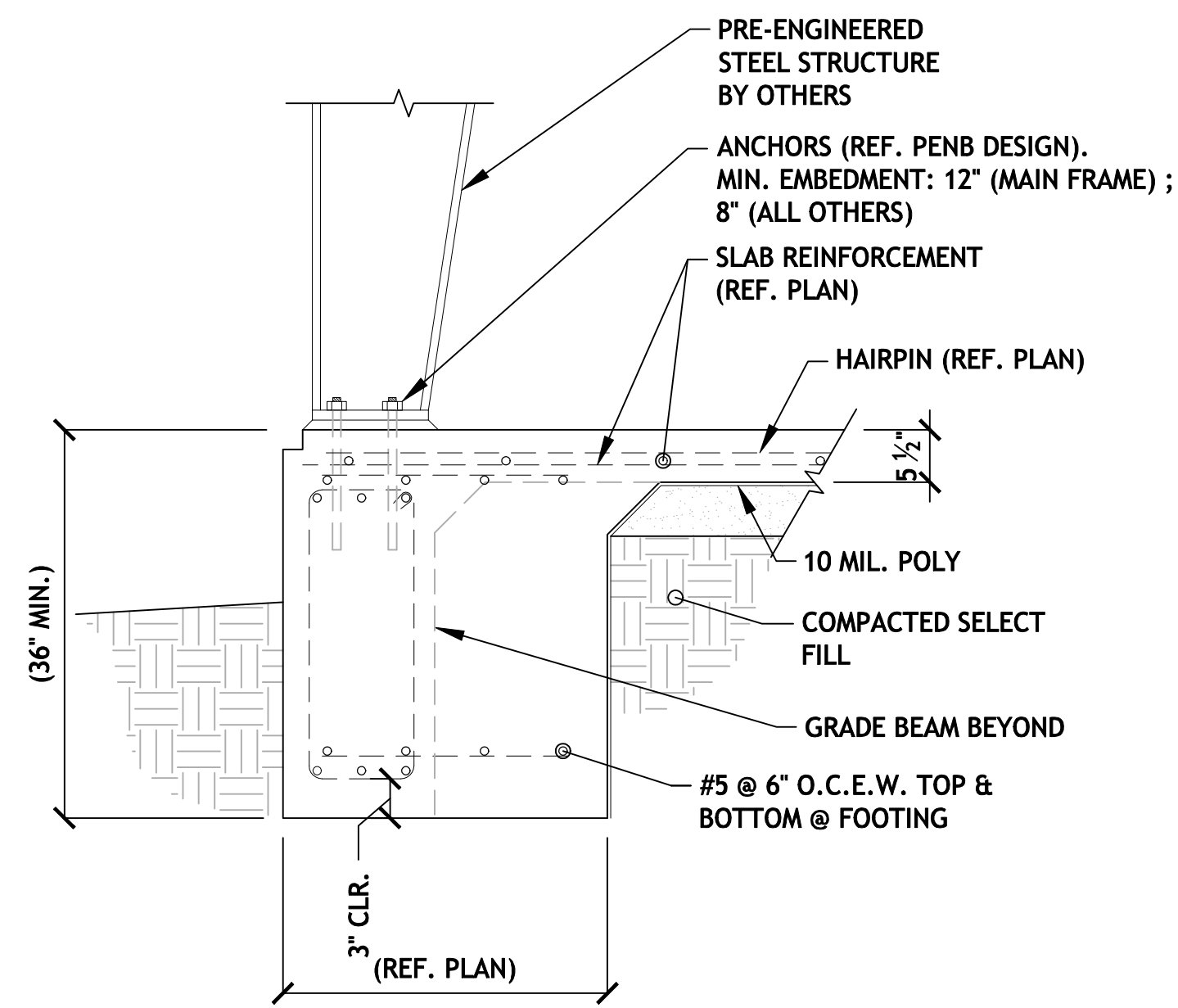
TYPICAL EXTERIOR BEAM ②



TYPICAL EXTERIOR BEAM ③



TYPICAL INTERIOR BEAM ④



FOUNDATION @ MAIN STEEL COLUMN ⑤

NO.	REVISION	DATE
1.	REVIEW SET	09-18-23

PROJECT:	23192
DATE:	06-28-23
DRAWN BY:	RB

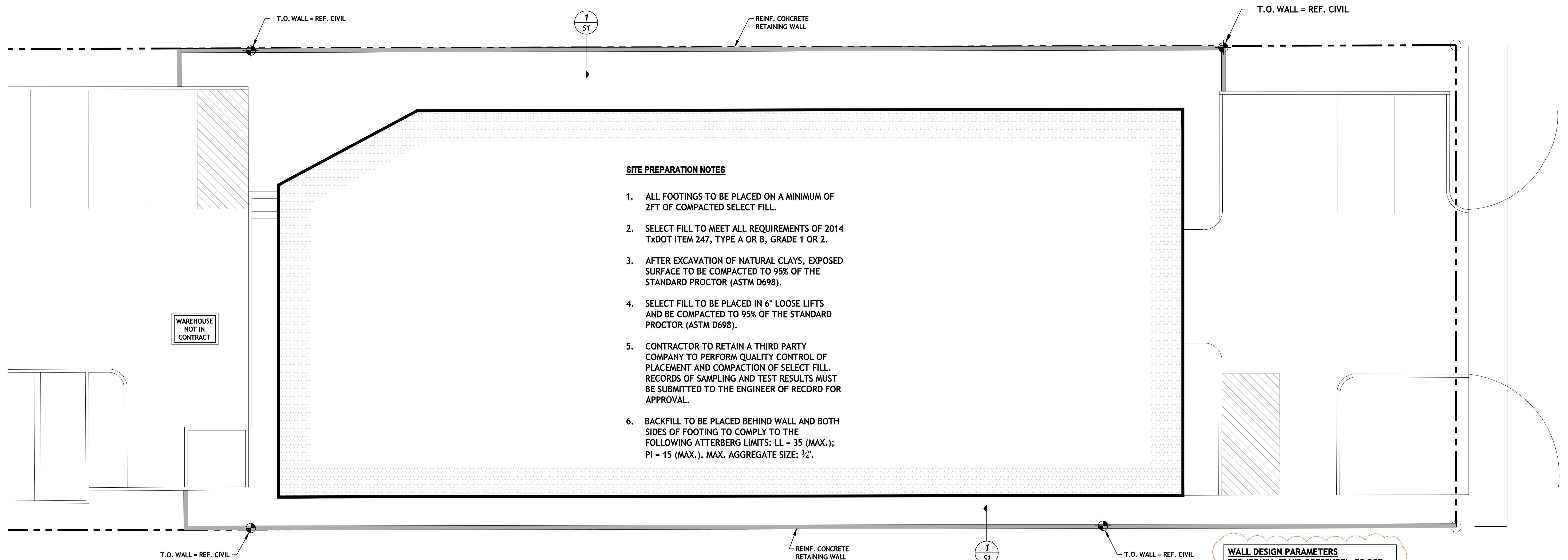
SCALE:	AS NOTED
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NO.	REVISION	DATE
1.	REVIEW SET	08-07-23
2.	REVISION / 2	08-21-23
3.	REVISION / 3	08-23-23
4.	CLIENT COMMENTS / 4	09-11-23

PROJECT: 23192
DATE: 06-28-23
DRAWN BY: RB

SCALE:
AS NOTED

S1



SITE PREPARATION NOTES

1. ALL FOOTINGS TO BE PLACED ON A MINIMUM OF 2FT OF COMPACTED SELECT FILL.
2. SELECT FILL TO MEET ALL REQUIREMENTS OF 2014 TxDOT ITEM 247, TYPE A OR B, GRADE 1 OR 2.
3. AFTER EXCAVATION OF NATURAL CLAYS, EXPOSED SURFACE TO BE COMPACTED TO 95% OF THE STANDARD PROCTOR (ASTM D698).
4. SELECT FILL TO BE PLACED IN 6" LOOSE LIFTS AND BE COMPACTED TO 95% OF THE STANDARD PROCTOR (ASTM D698).
5. CONTRACTOR TO RETAIN A THIRD PARTY COMPANY TO PERFORM QUALITY CONTROL OF PLACEMENT AND COMPACTION OF SELECT FILL. RECORDS OF SAMPLING AND TEST RESULTS MUST BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL.
6. BACKFILL TO BE PLACED BEHIND WALL AND BOTH SIDES OF FOOTING TO COMPLY TO THE FOLLOWING ATTERBERG LIMITS: LL = 35 (MAX.); PI = 15 (MAX.). MAX. AGGREGATE SIZE: 3/4".

STRUCTURAL NOTES

FOUNDATION NOTES

- CODES AND SPECIFICATIONS**
1. 2021 EDITION OF THE INTERNATIONAL BUILDING CODE.
 2. ASCE 7-16, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
 3. ACI 301-05 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS AND ACI-318-19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.

MATERIALS

- CONCRETE**
1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3600 PSI
 - 1.1. MINIMUM CEMENT CONTENT: 4 SACKS/C.Y.
 - 1.2. MAXIMUM WATER/CEMENT RATIO: 0.50
 - 1.3. SLUMP RANGE: 5" MIN - 8" MAX.
 - 1.4. MAX. COARSE AGGREGATE SIZE: 3/4"
 2. ALL REINFORCING SHALL BE ASTM A-615, GRADE 60
 3. STANDARD PROTECTIVE COVER OF REINFORCING BARS UNLESS OTHERWISE NOTED SHALL BE:
 - 3.1. WHERE CAST AGAINST DIRT OR FILL 3"
 - 3.2. EXPOSED TO EARTH OR WATER 2"
 - 3.3. SLABS AND WALLS (EXTERIOR) 2"

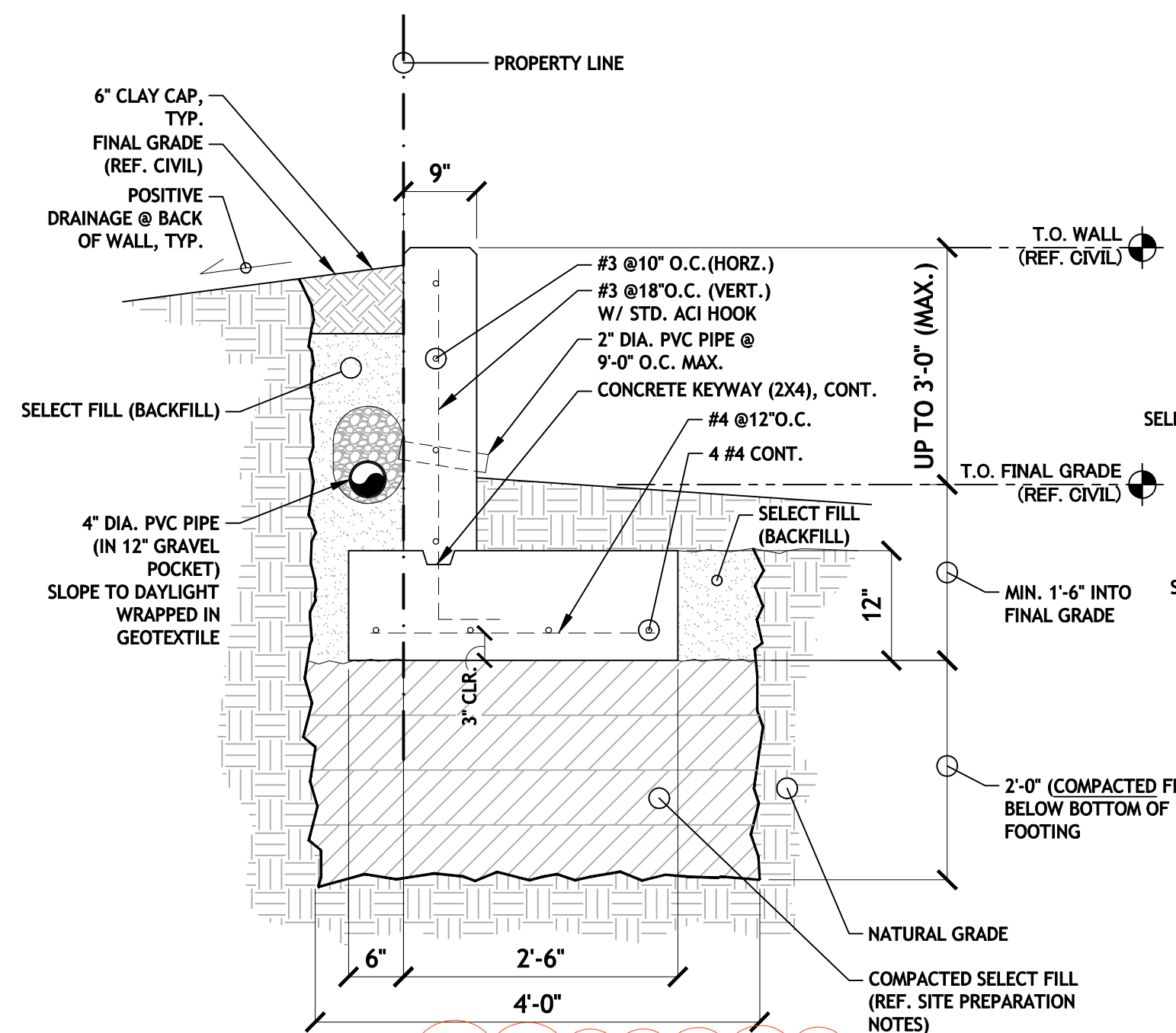
FOUNDATION CONSTRUCTION

1. DRAINAGE AROUND THE PERIMETER OF THE RETAINING WALL SHALL BE DONE PER IBC SUCH THAT NO WATER SHALL COLLECT UNDER OR ADJACENT TO THE WALL.
2. HEAVY VEGETATION SUCH AS TREES WITHIN 20 FT. OF RETAINING WALL MAY CAUSE EXCESSIVE WATER REMOVAL AND DAMAGE FOUNDATION.
3. FOR FIELD CONDITIONS NOT EXPLICITLY COVERED BY PLANS AND DETAILS, CONTACT ENGINEER OF RECORD.
4. REPORT ALL CONFLICTS TO THE ENGINEER OF RECORD.
5. PRE-POUR INSPECTIONS BY ENGINEER OF RECORD ARE REQUIRED.

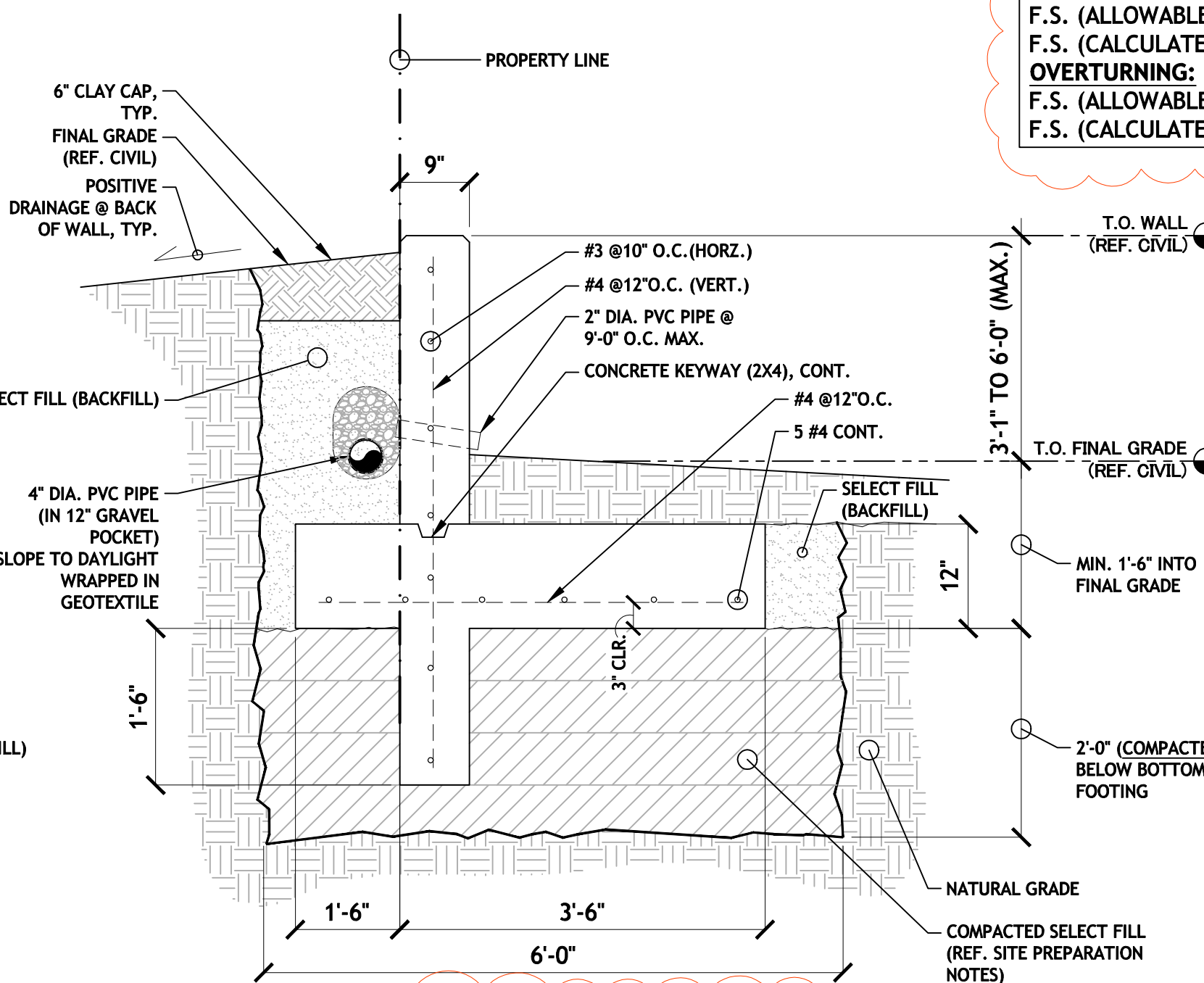
WALL MAINTENANCE NOTES

1. THE MAINTENANCE OF AND EVENTUAL REPAIRS TO THE RETAINING WALL(S) ARE THE RESPONSIBILITY OF THE OWNER.
2. CONDITION ASSESSMENT: THE RETAINING WALL MUST BE PERIODICALLY INSPECTED TO VERIFY THAT DRAINAGE MEASURES ARE FUNCTIONING PROPERLY, EROSION HAS NOT OCCURRED ALONG THE TOP, ENDS, OR BOTTOM OF THE WALL AND FOOTING AND IF ANY UNANTICIPATED MOVEMENT OR DEFLECTION OF THE WALL HAS OCCURRED. RESULTS SHALL BE ASSESSES BY A QUALIFIED DESIGN PROFESSIONAL.
3. RETAINING WALL SHOULD BE INSPECTED AT PERIODIC INTERVALS. A MINIMUM OF ONE CONDITION ASSESSMENT EVERY 3 YEARS IS REQUIRED.
4. THE CONDITION ASSESSMENT SHALL BE CONDUCTED ON BEHALF OF THE OWNER BY OR UNDER THE DIRECT SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS.

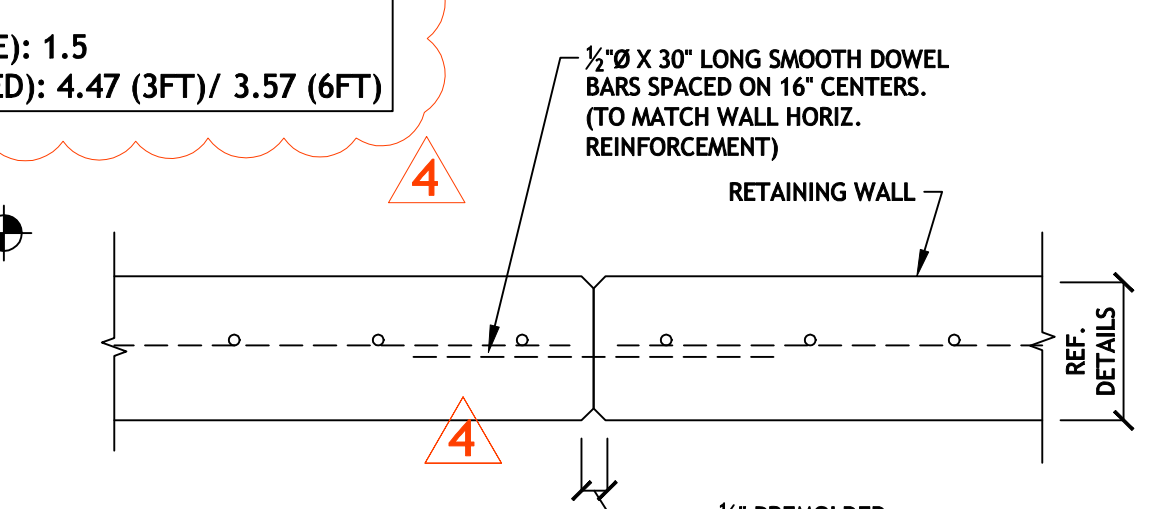
WALL DESIGN PARAMETERS
EFP (EQUIV. FLUID PRESSURE): 50 PCF
PASSIVE PRESSURE: 250 PCF
F.S. (BEARING CAPACITY): 2.5
SLIDING:
FRICTION COEFFICIENT: 0.35
F.S. (ALLOWABLE): 1.5
F.S. (CALCULATED): 1.87 (3FT)/ 1.78 (6FT)
OVERTURNING:
F.S. (ALLOWABLE): 1.5
F.S. (CALCULATED): 4.47 (3FT)/ 3.57 (6FT)



DETAIL 1



DETAIL 2



GENERAL NOTES:

1. ALL EXPOSED EDGES SHALL HAVE A 3/4" INCH CHAMFER.
2. ALL DISTANCES TO REINFORCING BARS REFER TO CLEAR CONCRETE COVER OF BAR UNLESS NOTED OTHERWISE.
3. MINIMUM BAR LAP IS TO BE FORTY (40) BAR DIAMETERS.
4. MINIMUM GRADE OF REINFORCING STEEL IS TO BE ASTM A615 GRADE 60.
5. MAXIMUM SPACING OF EXPANSION JOINTS SHALL BE 20'-0" CENTER TO CENTER.
6. IT IS THE RESPONSIBILITY OF THE OWNER TO PROVIDE ROUTINE MAINTENANCE OF RETAINING WALLS AND ASSOCIATED WALL DRAINAGE SYSTEMS.

EXPANSION JOINT DETAIL
@ 20FT CENTERS, MAX.

PLAN NOTES

1. CONCRETE CONTRACTOR MUST VERIFY ALL DIMENSIONS AND COORDINATE STRUCTURAL PLANS AND DETAILS WITH CIVIL DRAWINGS BEFORE CONCRETE WORK.
2. THE ENGINEER OF RECORD SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

DESIGN SUMMARY
1. CONCRETE COMPRESSIVE STRENGTH (28 DAYS): 3600 PSI

CONTRACTOR TO VERIFY FINAL DIMENSIONS WITH ARCHITECTURE. CONCRETE FORM CONSTRUCTION TO BE SET BY ARCHITECTURAL PLANS/DIMENSIONS ONLY

PRE-POUR INSPECTION BY SEC REPRESENTATIVE IS REQUIRED. TO SCHEDULE CONTACT OFFICE@SECTEXAS.COM OR CALL 512-215-4364

GEOTECHNICAL SUMMARY
1. GEOTECHNICAL REPORT BY: SEC SOLUTIONS LLC
2. PROJECT NUMBER: 23192
3. DESIGN PI: 60
4. ALLOWABLE BEARING CAPACITY: 1,500 PSF (COMPACTED FILL)

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