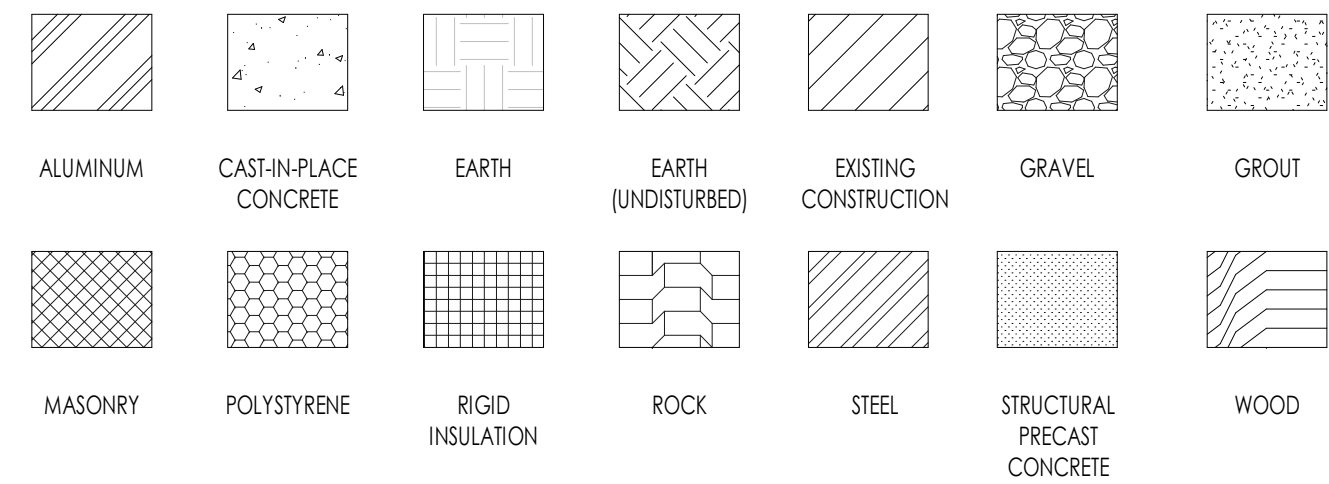
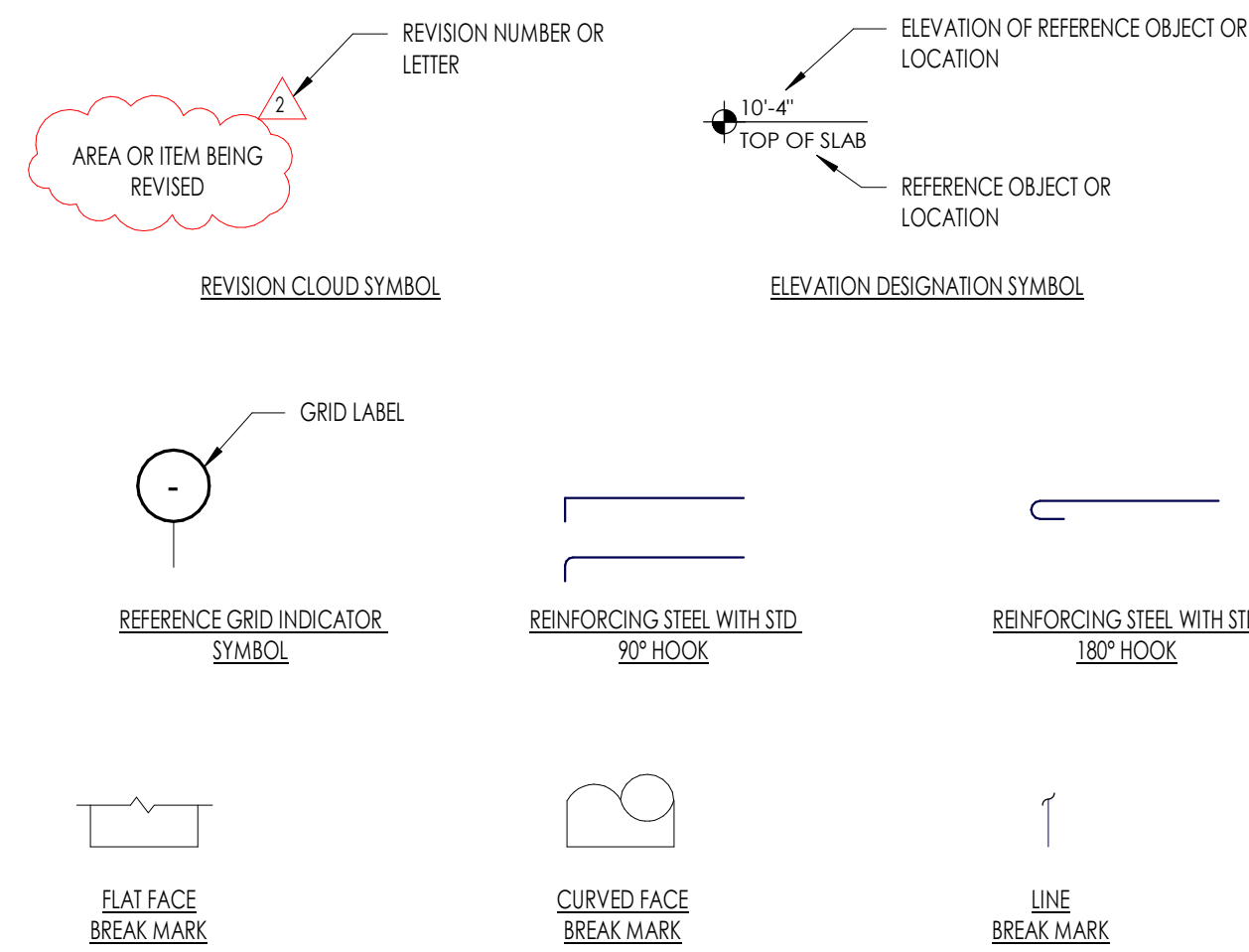


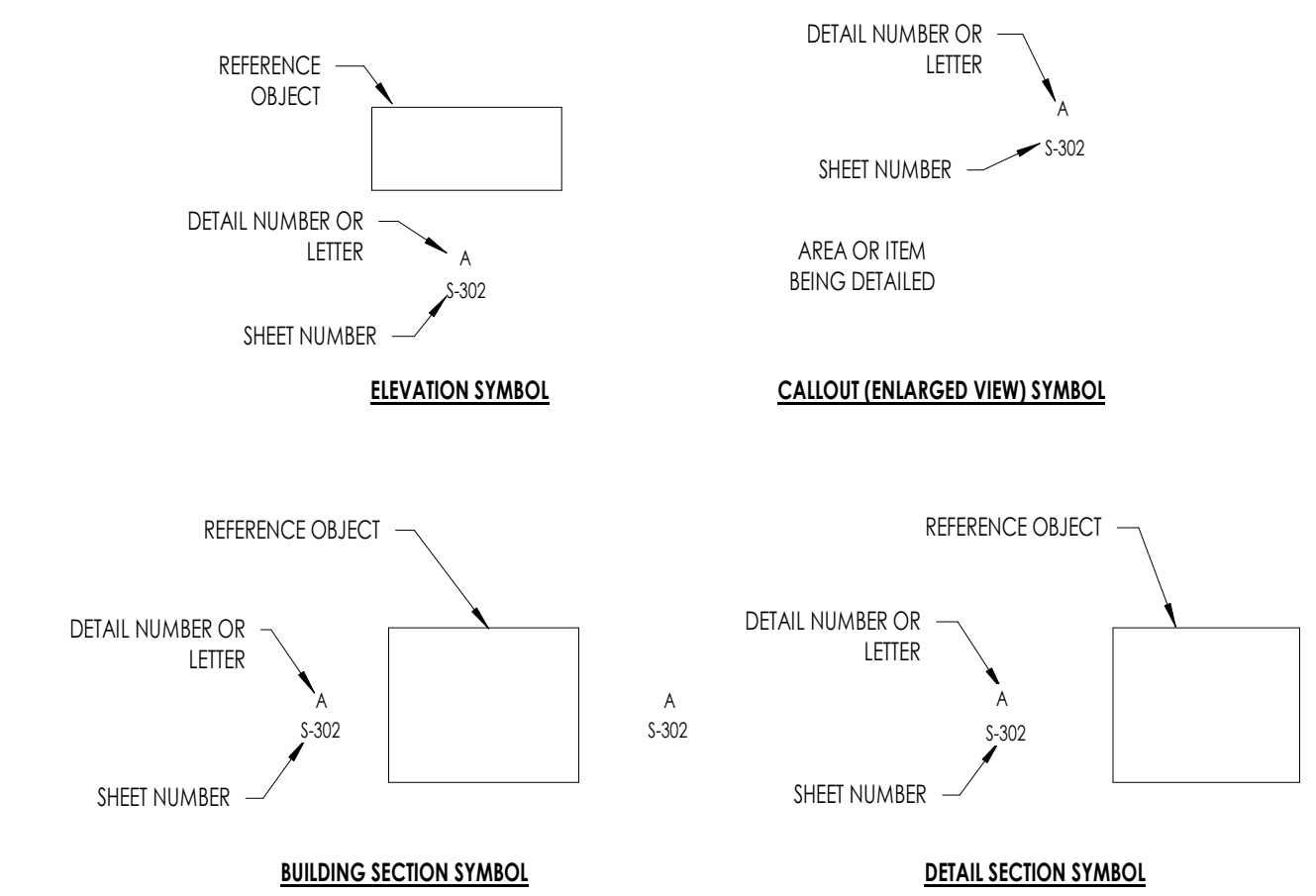
MATERIAL IDENTIFICATION SYMBOLS



UNIVERSAL SYMBOLS



VIEW REFERENCE SYMBOLS

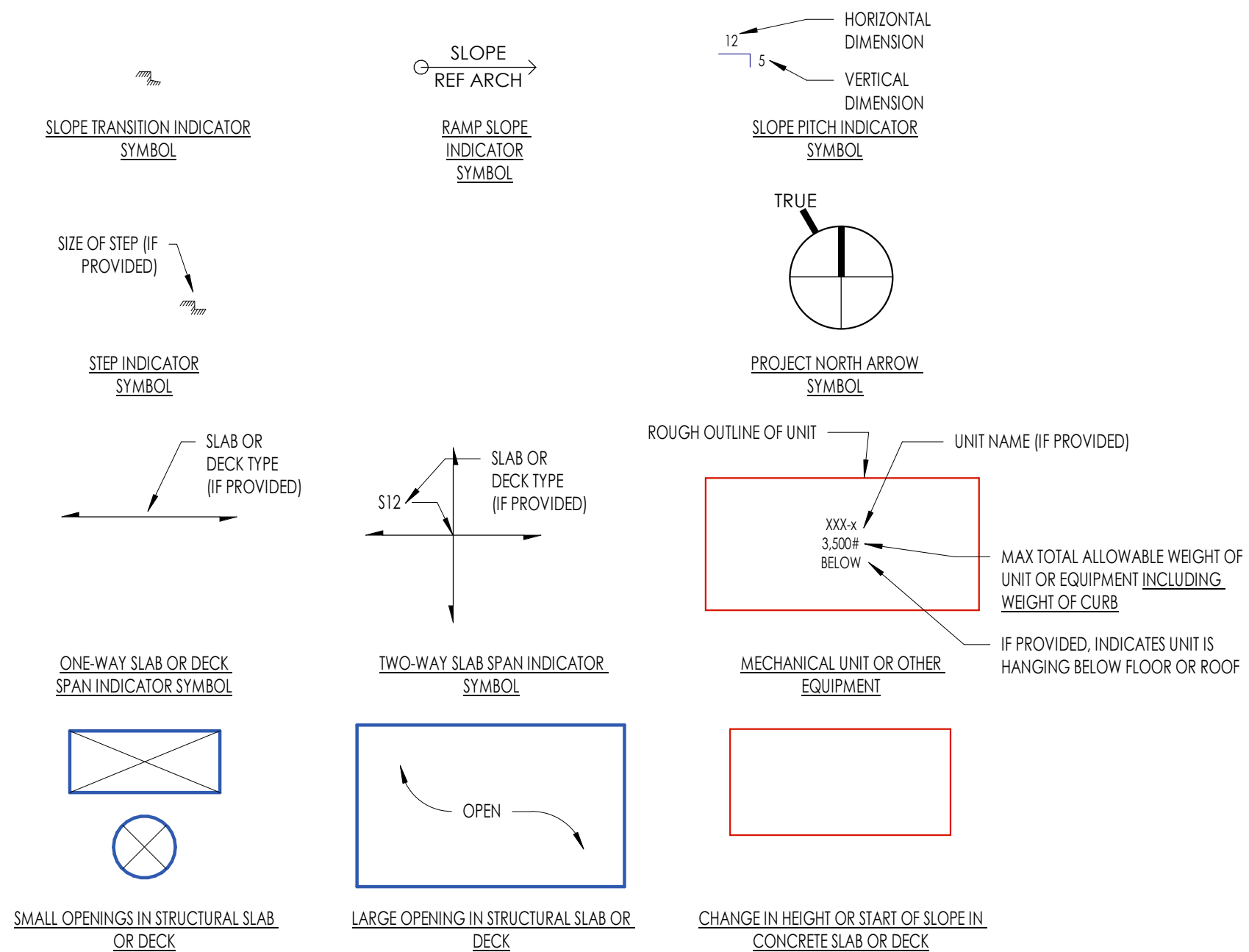


- NOTE
- TYP = TYPICAL
 - TYPICAL CONDITION, SECTION (DETAIL) WILL NOT BE CUT AT EACH CONDITION
 - SIM = SIMILAR
 - CONDITION AT THIS LOCATION IS SIMILAR TO ANOTHER CONDITION
 - OPH = OPPOSITE HAND
 - THE CONDITION AT THIS LOCATION IS A MIRROR IMAGE TO WHAT IS SEEN IN THE DETAIL SECTION OR ENLARGED VIEW

ABBREVIATIONS

@	AT	LSH	LONG SIDE HORIZONTAL
&	AND	LSV	LONG SIDE VERTICAL
#	NUMBER	LWC	LIGHTWEIGHT CONCRETE
Ø	ROUND, DIAMETER	M	MOMENT
ADDL	ADDITIONAL	MAX	MAXIMUM
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL	MC	MOMENT CONNECTION
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
AHU	AIR HANDLING UNIT	MEZZ	MEZZANINE
ALT	ALTERNATE	MFR	MANUFACTURER
APPROX	APPROXIMATE	MH	HORIZONTAL MOMENT
ARCH	ARCHITECTURAL	MIN	MINIMUM
BLDG	BUILDING	MISC	MISCELLANEOUS
BO	BOTTOM OF	MTL	METAL
BOD	BOTTOM OF DECK	NP	NEAR FACE
BOT	BOTTOM	N/C	NOT IN CONTACT
BRDG	BRIDGING	NS	NEAR SIDE
BRG	BEARING	NTS	NOT TO SCALE
BTWN	BETWEEN	NWC	NORMALWEIGHT CONCRETE
C	CAMBER	N/A	NOT APPLICABLE
CANT	CANTILEVER	N/R	NOT REQUIRED
CFS	COLD-FORMED STEEL	OC	ON CENTER
CIP	CAST-IN-PLACE	OD	OUTSIDE DIAMETER
CJ	CONSTRUCTION/CONTRACTION (CONTROL) JOINT	OPH	OPPOSITE HAND
CJP	COMPLETE JOINT PENETRATION	OPNG	OPENING
CL	CENTERLINE	OPP	OPPOSITE
CMU	CONCRETE MASONRY UNIT	OSB	ORIENTED STRAND BOARD (WOOD)
COL	COLUMN	OVS	OVERSIZED HOLE
CONC	CONCRETE	P	AXIAL LOAD
CONN	CONNECTION	PAF	POWDER ACTUATED FASTENER
CONSTR	CONSTRUCTION	PAR	PARALLEL
CONT	CONTINUOUS	PCC	PRECAST CONCRETE
COORD	COORDINATE	PCF	POUNDS PER CUBIC FOOT
CIRS	CENTERS	PCY	POUNDS PER CUBIC YARD
db	BAR DIAMETER	PERP	PERPENDICULAR
DBA	DEFORMED BAR ANCHOR	PL	PLATE
DF	DOUGLAS FIR (WOOD)	PLF	POUNDS PER LINEAR FOOT
DIA (Ø)	DIAMETER	PJP	PARTIAL JOINT PENETRATION
DIM	DIMENSION	PRELIM	PRELIMINARY
DWG	DRAWING	PROP	PROPERTY
EA	EACH	PSF	POUNDS PER SQUARE FOOT
EF	EACH FACE	PSI	POUNDS PER SQUARE INCH
EJ	EXPANSION JOINT	PT	POST-TENSIONED
EL (ELEV)	ELEVATION	QTY	QUANTITY
EMBED	EMBEDMENT, EMBEDDED	V	VERTICAL
ENGR	ENGINEER	RAD	RADIUS
EQ	EQUAL	REF	REFERENCE
EQUIP	EQUIPMENT	RENF	REINFORCEMENT
EQUIV	EQUIVALENT	REQD	REQUIRED
EW	EACH WAY	REV	REVISION
EXIST	EXISTING	RTU	ROOF TOP UNIT
EXP	EXPANSION	SC	SLIP CRITICAL
EXT	EXTERIOR	SCHED	SCHEDULE(D)
FAB	FABRICATE	SECT	SECTION
Fc	28 DAY CONCRETE STRENGTH	SER	STRUCTURAL ENGINEER OF RECORD
fm	28 DAY MASONRY STRENGTH	SHT	SHEET
FD	FLOOR DRAIN	SIM	SIMILAR
FDN	FOUNDATION	SILBB	SHORT LEG BACK TO BACK
FF	FAR FACE	SLS	SEISMIC LOAD RESISTING SYSTEM
FFE	FINISHED FLOOR ELEVATION	SOG	SLAB-ON-GRADE
FIN	FINISHED	SPA	SPACING
FLR	FLOOR	SPEC	SPECIFICATION
FS	FAR SIDE	SO	SQUARE
FTG	FOOTING	SSE	SPECIALTY STRUCTURAL ENGINEER
FUT	FUTURE	STD	STANDARD
FV	FIELD VERIFY	STF	STIFFENER
Fy	YIELD STRENGTH	STL	STEEL
GALV	GALVANIZED	STRUCT (STR)	STRUCTURE, STRUCTURAL
GEN	GENERAL	SW	SHEAR WALL
GR	GRADE	SYMM	SYMMETRIC, SYMMETRICAL
H	HORIZONTAL REACTION	SYP	SOUTHERN YELLOW PINE
HGR	HANGER	T	TORSION
HORIZ	HORIZONTAL	TC	TOP OF COLUMN
HSA	HEADED STUD ANCHOR	TO	TOP OF
HSS	HOLLOW STRUCTURAL SECTION	TCC	TOP OF CONCRETE
ID	INSIDE DIAMETER	TOM	TOP OF MASONRY
INFO	INFORMATION	TOS	TOP OF STEEL TOP OF SLAB
INT	INTERIOR	TRANS	TRANSVERSE
JT	JOINT	TYP	TYPICAL
K	KIPS (1000 LBS)	UNO	UNLESS NOTED OTHERWISE
KSF	KIPS PER SQUARE FOOT	VERT	VERTICAL
KSI	KIPS PER SQUARE INCH	WF (W)	WIDE FLANGE
LBS	POUNDS	WP	WORK POINT
Ld	DEVELOPMENT LENGTH	WS	WATERSTOP
LLBB	LONG LEG BACK TO BACK	WSP	WOOD STRUCTURAL PANEL
LLH	LONG LEG HORIZONTAL	WT	WEIGHT
LLV	LONG LEG VERTICAL	WWR	WELDED WIRE REINFORCEMENT
LONG	LONGITUDINAL	XS	EXTRA STRONG (SCH. 40 PIPE)
		XXS	DOUBLE EXTRA STRONG (SCH. 80 PIPE)

PLAN SYMBOLS



DEFINITIONS

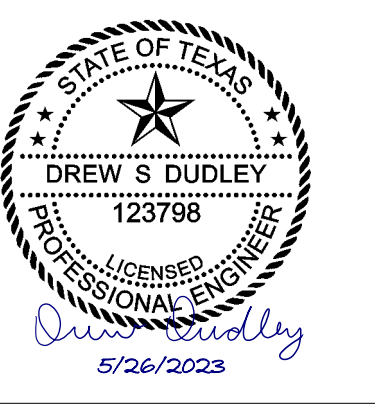
- HORIZONTAL LATERAL LOAD RESISTING SYSTEM (DIAPHRAGM)**: A STRUCTURAL ELEMENT WHICH TRANSMITS LATERAL LOADS TO THE VERTICAL LATERAL LOAD RESISTING SYSTEM.
- PRIMARY STRUCTURAL SYSTEM**: IS THE COMPLETED COMBINATION OF ELEMENTS WHICH SERVE TO SUPPORT THE BUILDING'S SELF-WEIGHT, THE APPLICABLE LIVE LOAD WHICH IS BASED UPON THE OCCUPANCY AND USE OF THE SPACES AND THE ENVIRONMENTAL LOADS SUCH AS WIND, SEISMIC, AND THERMAL. CURTAIN WALL MEMBERS, NON-LOAD BEARING WALLS AND EXTERIOR FAÇADE ARE EXAMPLES OF ITEMS WHICH ARE NOT PART OF THE PRIMARY STRUCTURAL SYSTEM.
- PRIME DESIGN PROFESSIONAL**: IS THE LEADER OF THE DESIGN TEAM CHARGED WITH THE DESIGN OF A FACILITY, EITHER AN ARCHITECT OR AN ENGINEER. THE PRIME DESIGN PROFESSIONAL IS RESPONSIBLE FOR DETERMINING AND INTERPRETING THE NEEDS OF THE CLIENT AND FOR COORDINATING THE WORK OF THE OTHER MEMBERS OF THE DESIGN TEAM. PRIME DESIGN PROFESSIONAL IS ALSO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (RDRPC) AND MUST FULFILL THE DUTIES OUTLINED AS SUCH IN THE BUILDING CODE ADOPTED BY THE RELEVANT AUTHORITY HAVING JURISDICTION.
- REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (RDRPC)**: OR PRIME DESIGN PROFESSIONAL WORKING DIRECTLY FOR THE REGISTERED DESIGN PROFESSIONAL, WHO IS RESPONSIBLE FOR ENSURING THE PROJECT CONSTRUCTION DOCUMENTS COMPLY WITH THE APPLICABLE REQUIREMENTS OF ANY GOVERNING BUILDING AUTHORITIES, RESPONSIBLE FOR REVIEWING AND COORDINATING SUBMITTAL DOCUMENTS PREPARED BY OTHERS, INCLUDING PHASED AND DEFERRED SUBMITTALS, FOR COMPATIBILITY WITH THE DESIGN OF THE BUILDING. TYPICALLY, THIS IS THE ARCHITECT OR CIVIL ENGINEER-OF-RECORD.
- REGISTERED DESIGN PROFESSIONAL**: IS AN INDIVIDUAL WHO IS REGISTERED OR LICENSED TO PRACTICE THEIR RESPECTIVE DESIGN PROFESSION AS DEFINED BY THE STATUTORY REQUIREMENTS OF THE PROFESSIONAL REGISTRATION LAWS OF THE STATE OR JURISDICTION IN WHICH THE PROJECT IS TO BE CONSTRUCTED.
- SECONDARY STRUCTURAL ELEMENTS**: ARE ELEMENTS THAT ARE STRUCTURALLY SIGNIFICANT FOR THE FUNCTION THEY SERVE BUT DO NOT CONTRIBUTE TO THE STRENGTH OR STABILITY OF THE PRIMARY STRUCTURE. EXAMPLES MAY INCLUDE BUT ARE NOT LIMITED TO: SUPPORT BEAMS ABOVE THE PRIMARY ROOF STRUCTURE WHICH CARRY A CHILLER OR OTHER EQUIPMENT, EXTERIOR NON-LOAD BEARING WALLS OR CLADDING SYSTEMS, STAIRS, ELEVATOR SUPPORT WALLS AND BEAMS, RETAINING WALLS INDEPENDENT OF THE PRIMARY BUILDING, AND FLAGPOLE OR LIGHT POLE FOUNDATIONS.
- SPECIALTY STRUCTURAL ENGINEER (SSE)**: IS A LICENSED PROFESSIONAL ENGINEER, NOT THE STRUCTURAL ENGINEER OF RECORD, WHO PERFORMS ADDITIONAL STRUCTURAL ENGINEERING FUNCTIONS FOR SOME OF THE ELEMENTS OF A PROJECT NOT DESIGNED BY THE SER AS LIMITED IN THIS AGREEMENT.
- STRUCTURAL ENGINEER OF RECORD (SER)**: IS THE ENGINEER LEGALLY ELIGIBLE TO SEAL THE STRUCTURAL DOCUMENTS FOR THE PROJECT. THIS SEAL ACKNOWLEDGES THAT HE OR SHE HAS PERFORMED OR SUPERVISED THE ANALYSIS, DESIGN AND DOCUMENT PREPARATION FOR THE BUILDING STRUCTURE AND HAS KNOWLEDGE OF THE REQUIREMENTS FOR THE LOAD-CARRYING STRUCTURAL SYSTEM. THE SER IS RESPONSIBLE FOR THE DESIGN OF THE PRIMARY STRUCTURAL SYSTEM.
- VERTICAL LATERAL LOAD RESISTING SYSTEM**: ELEMENTS OF THE PRIMARY STRUCTURAL SYSTEM WHICH TRANSFER THE LATERAL LOADS INDUCED UPON THE STRUCTURE TO THE FOUNDATION AND ULTIMATELY INTO THE EARTH.

Revision Schedule		
Revision Number	Revision Description	Revision Date

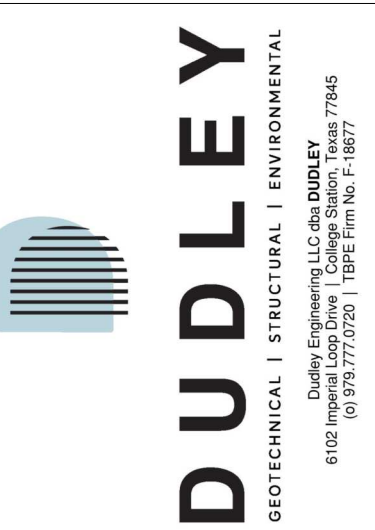
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SYMBOLS AND NOTATIONS

S0.1

Date: 5/26/2023

Project No: 23-00195

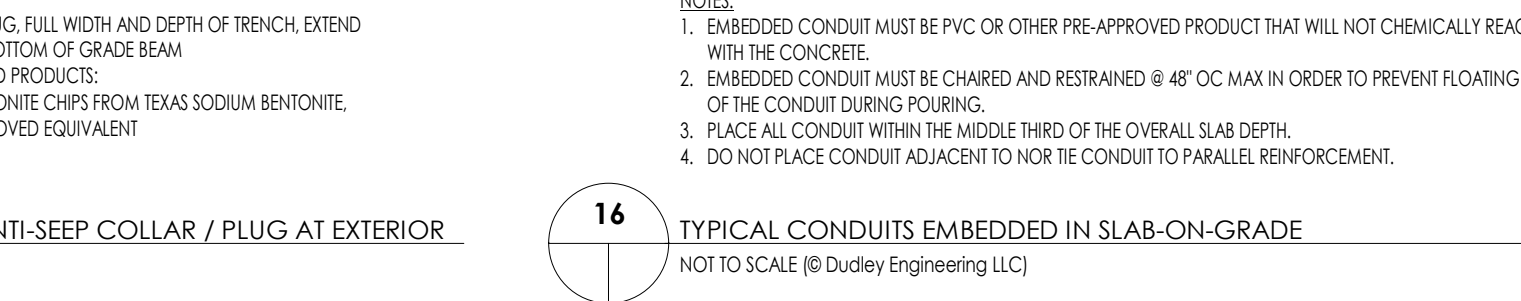
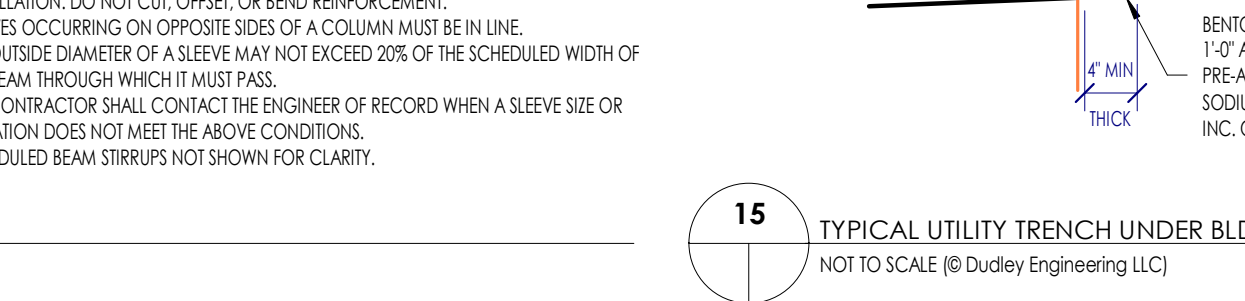
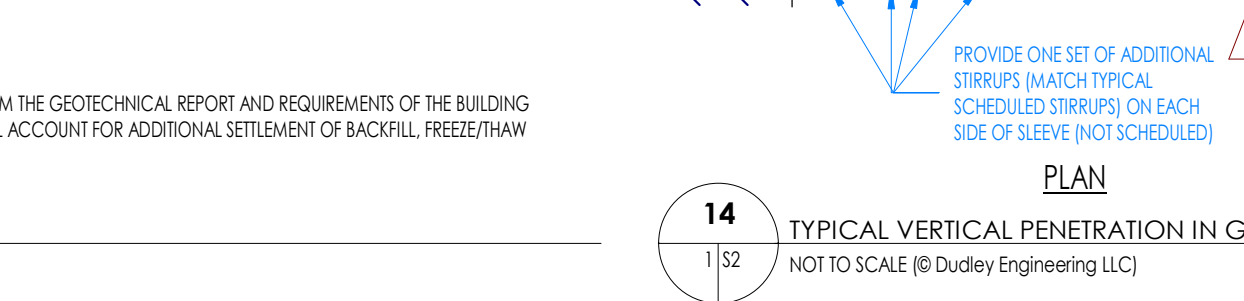
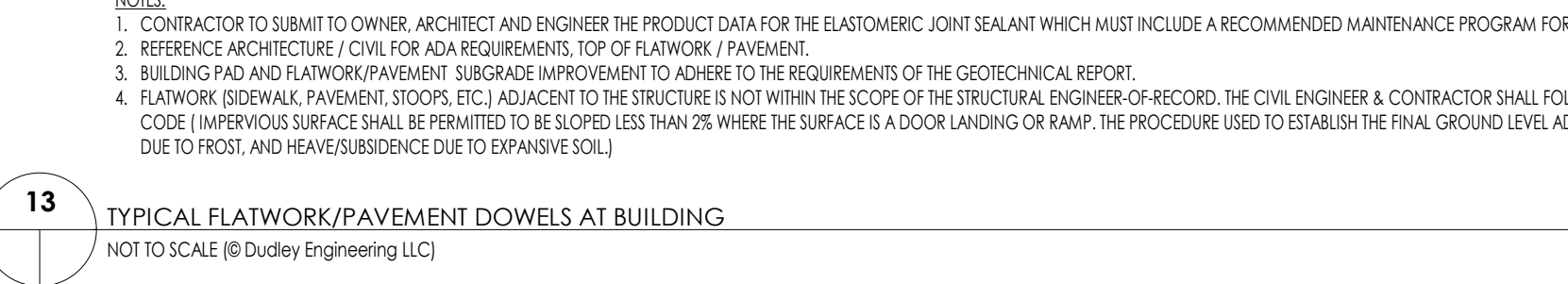
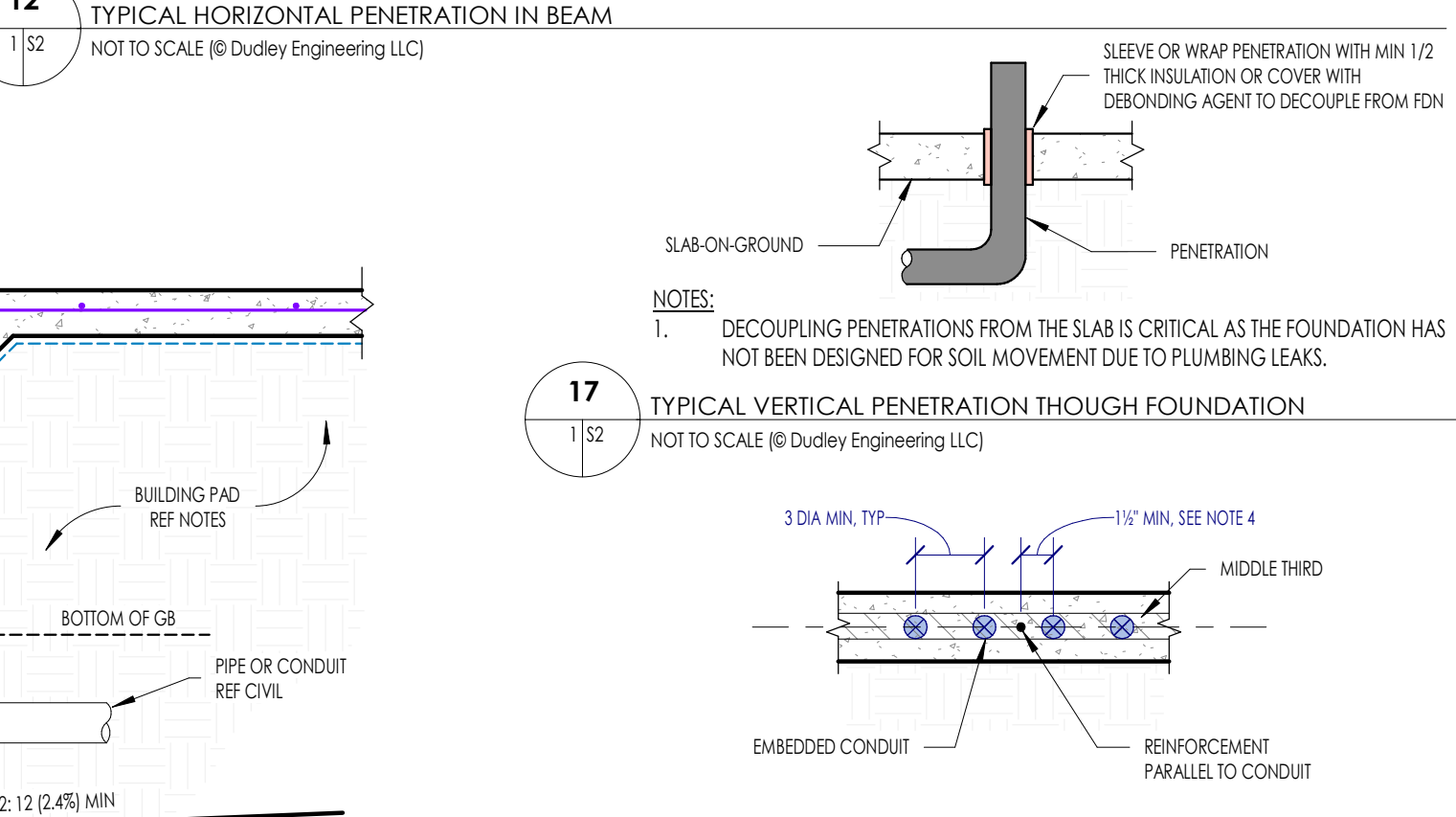
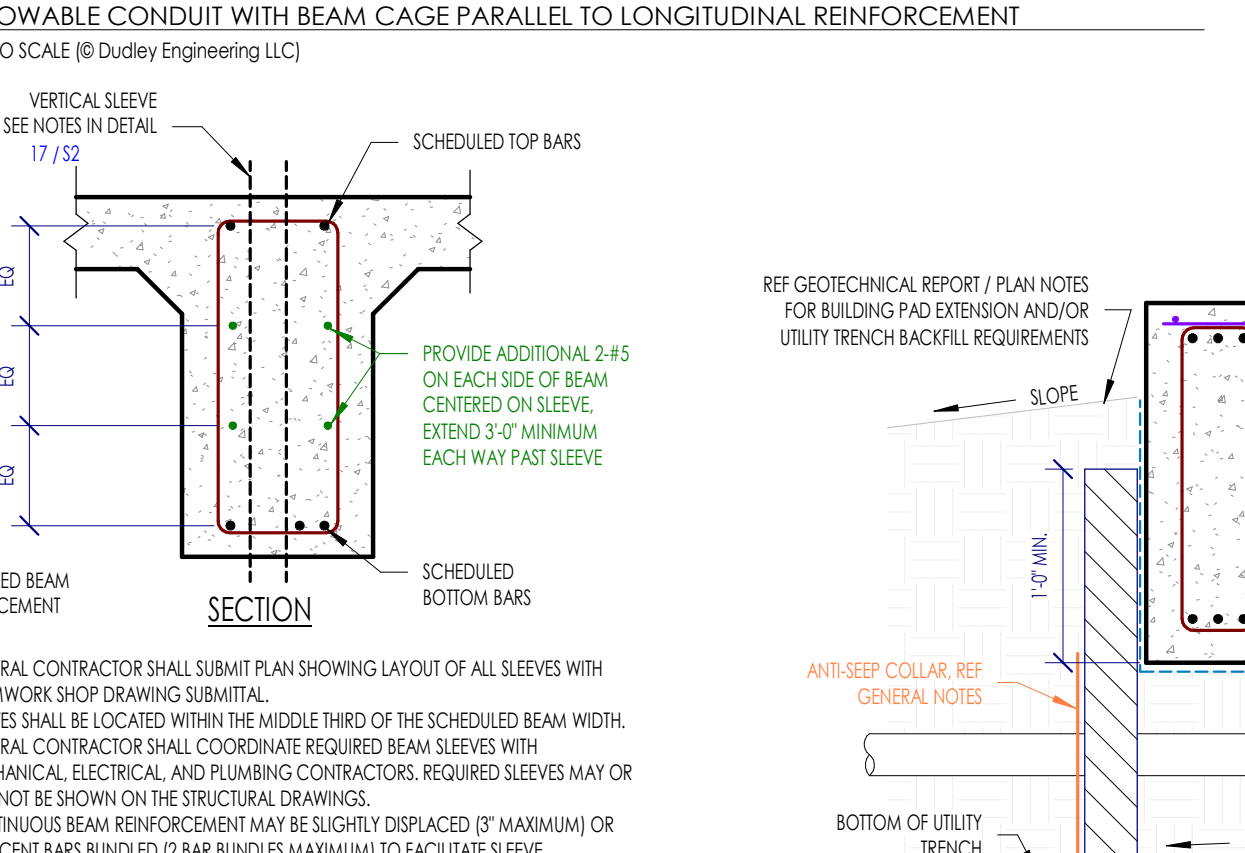
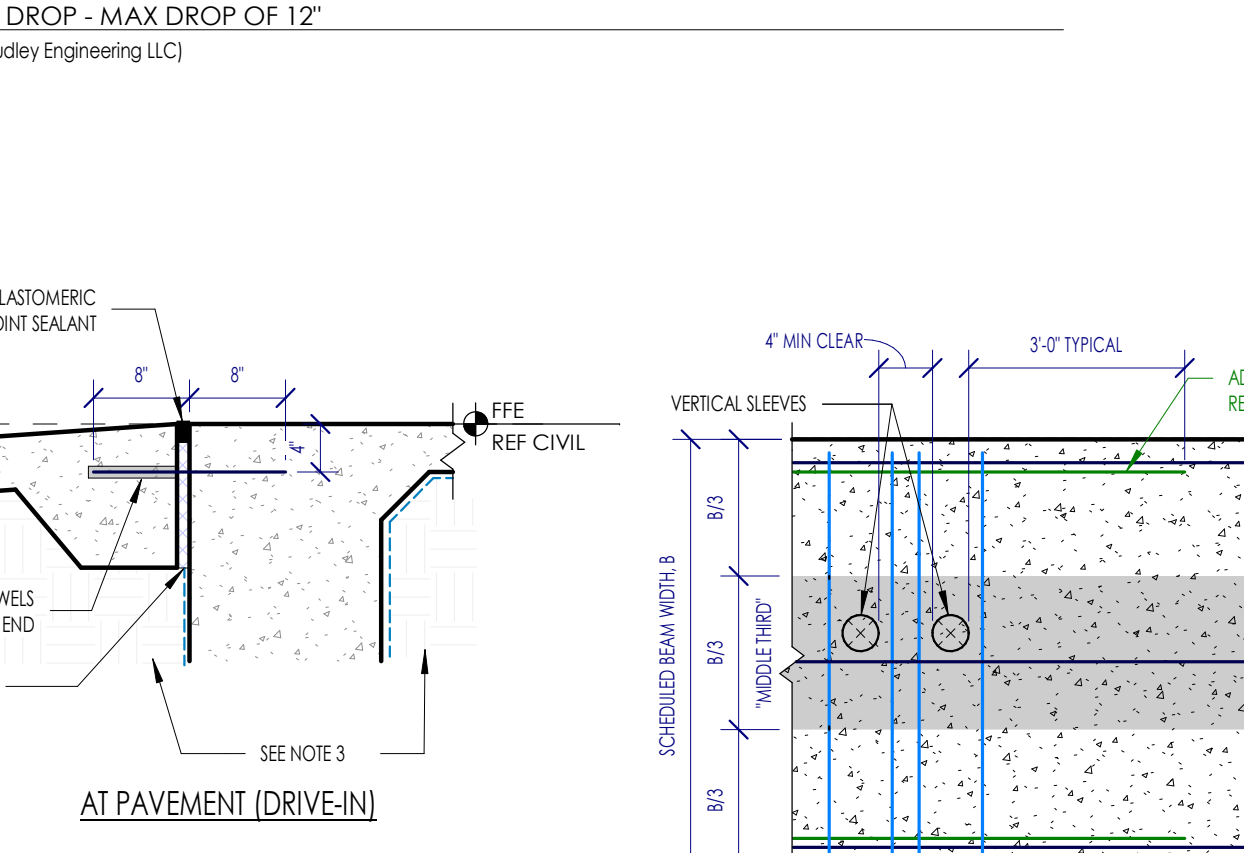
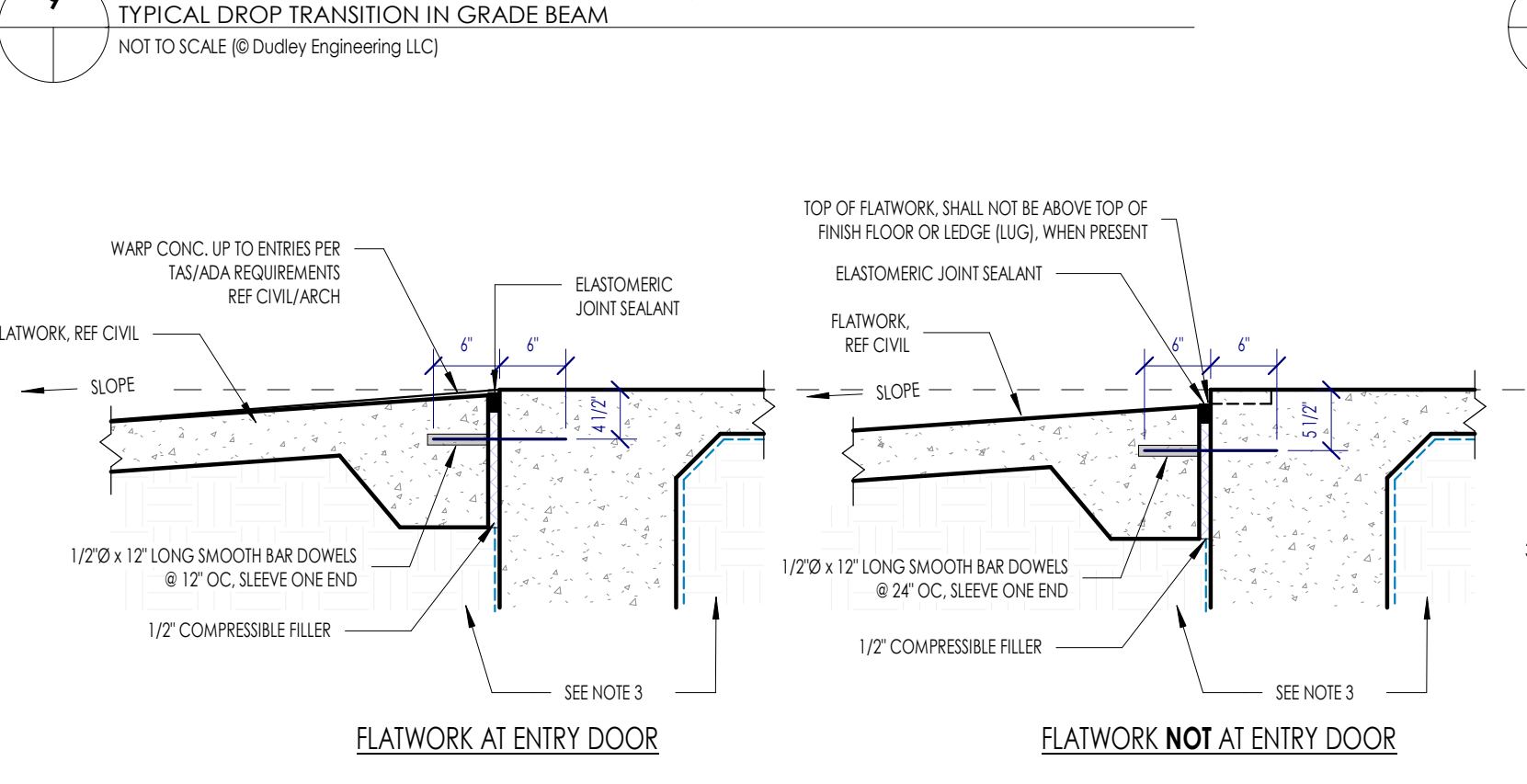
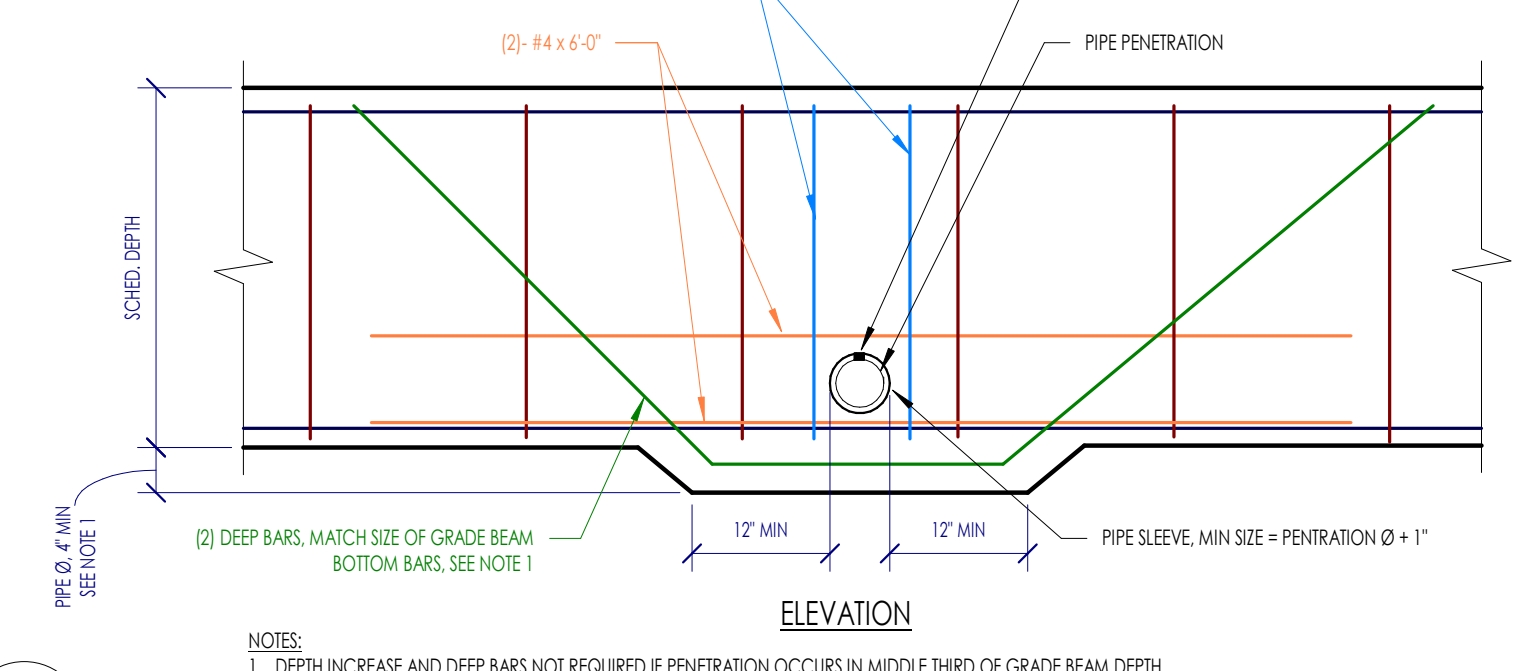
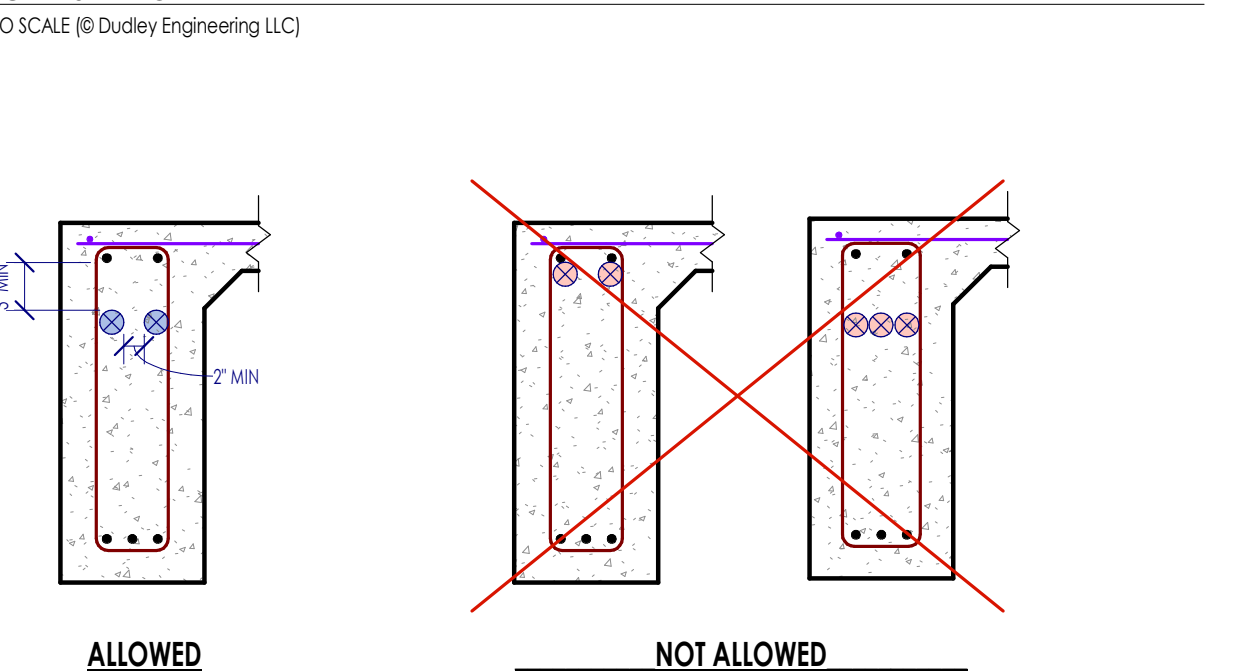
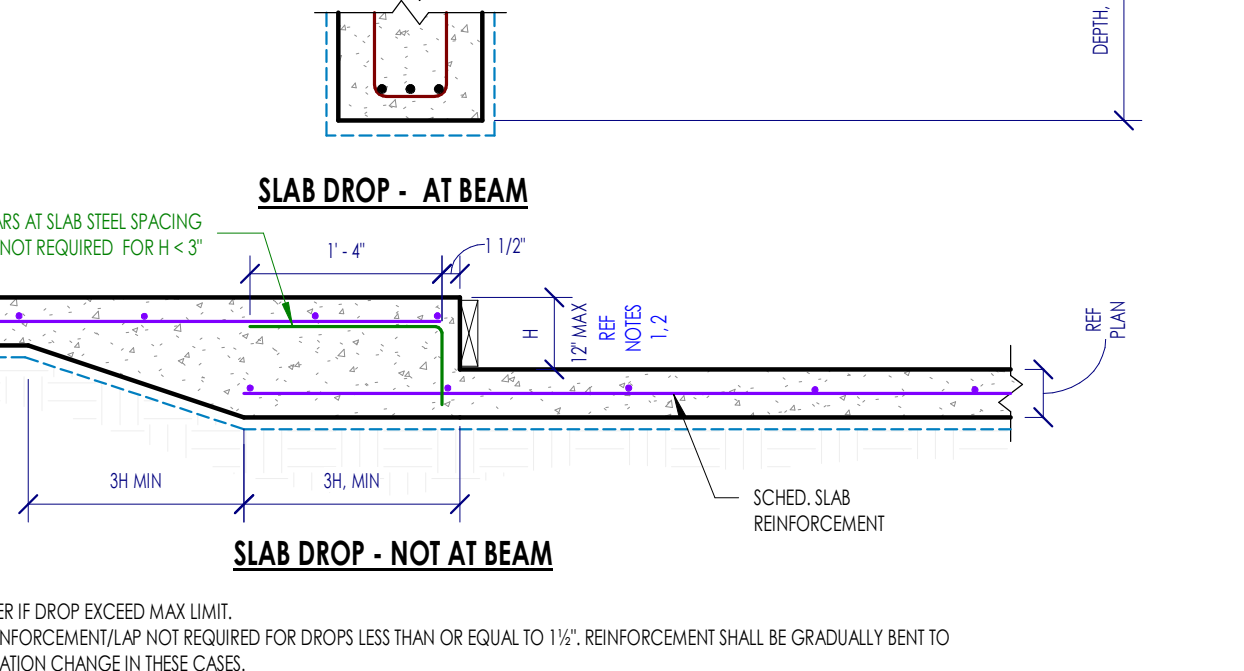
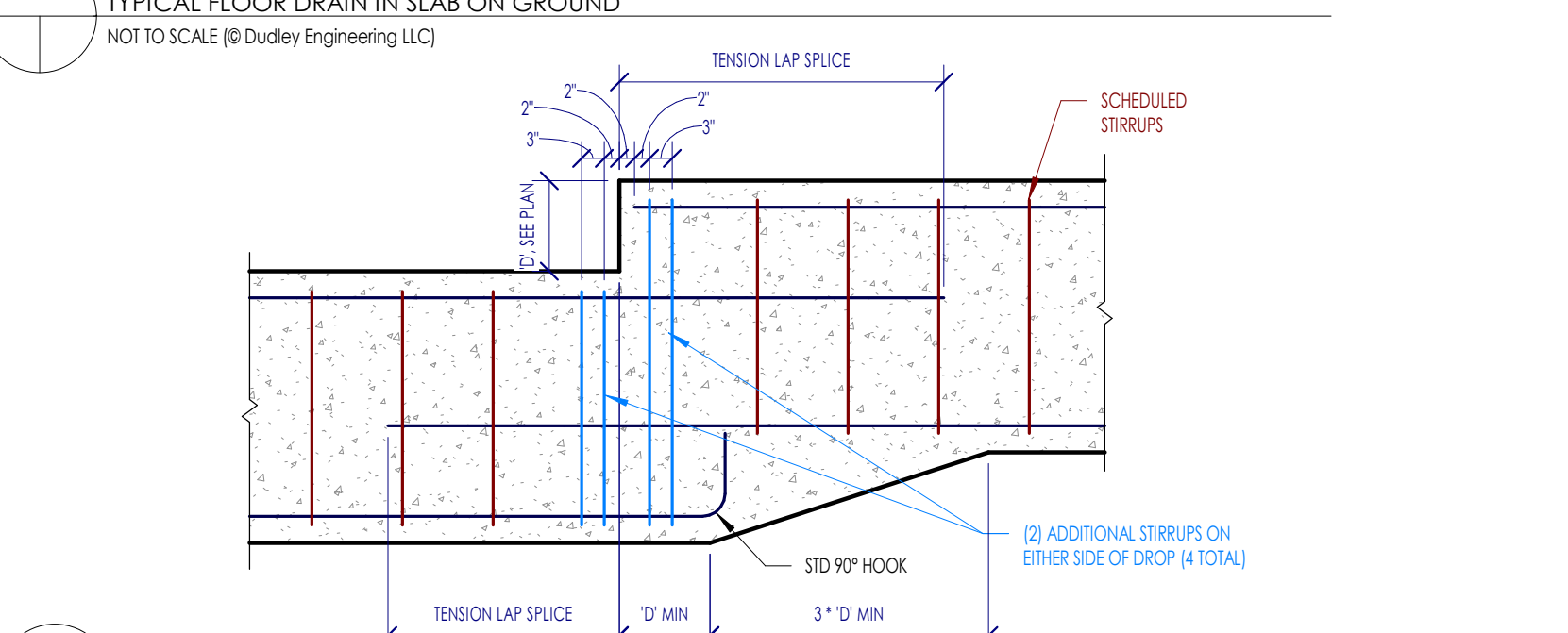
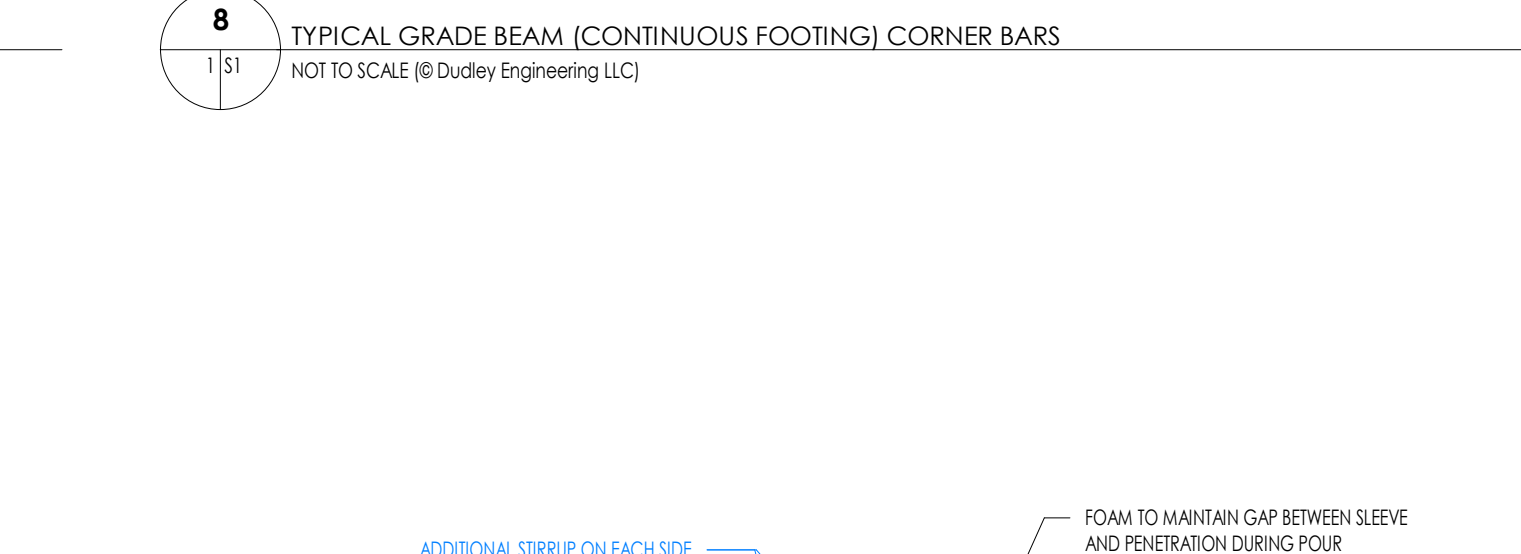
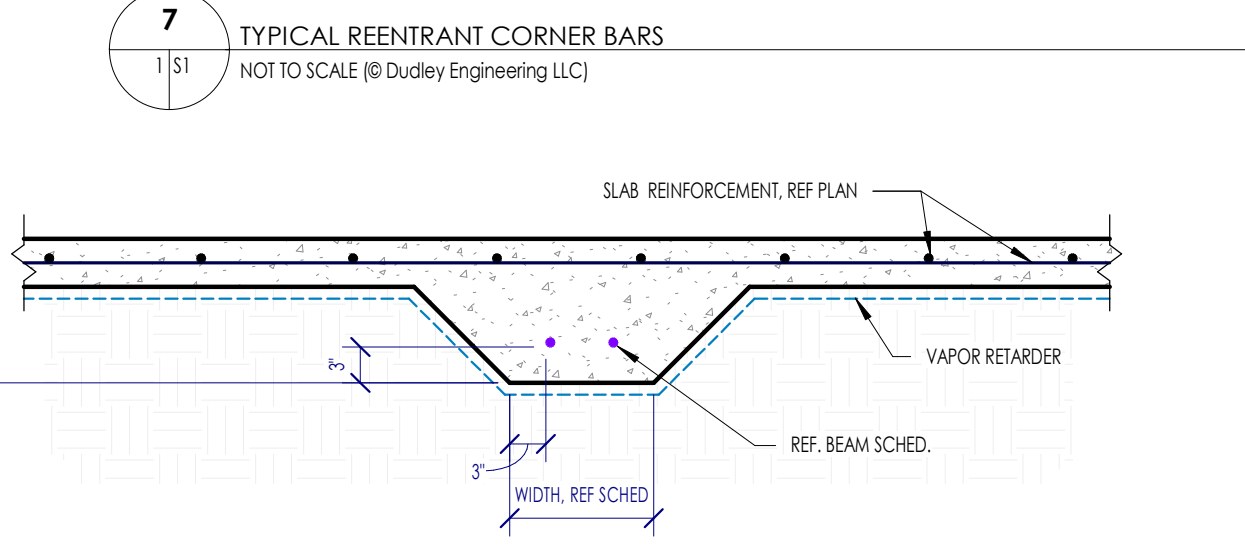
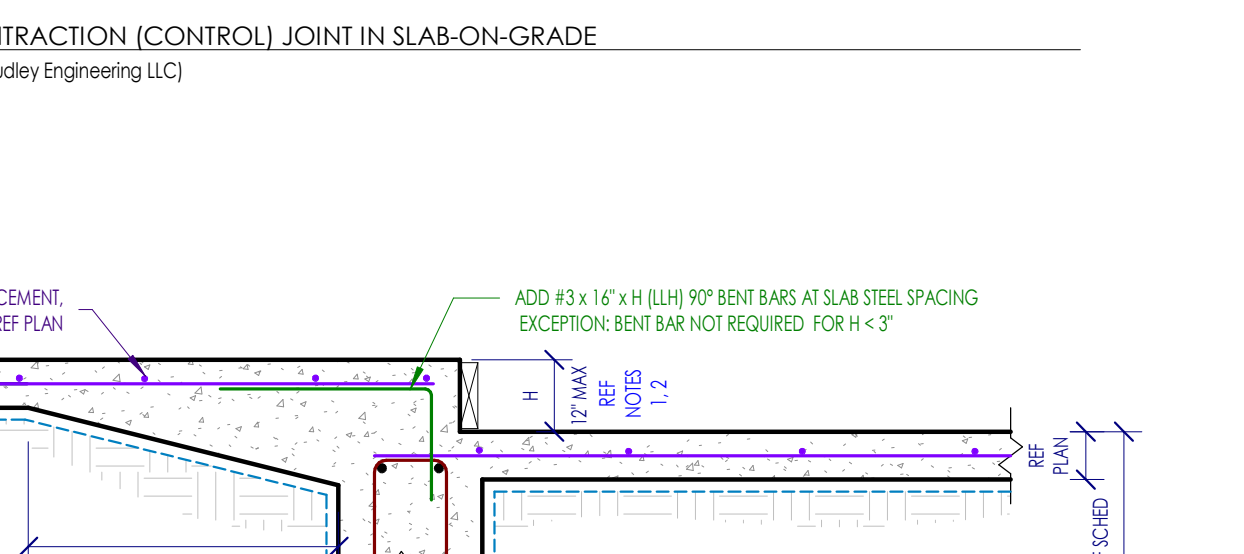
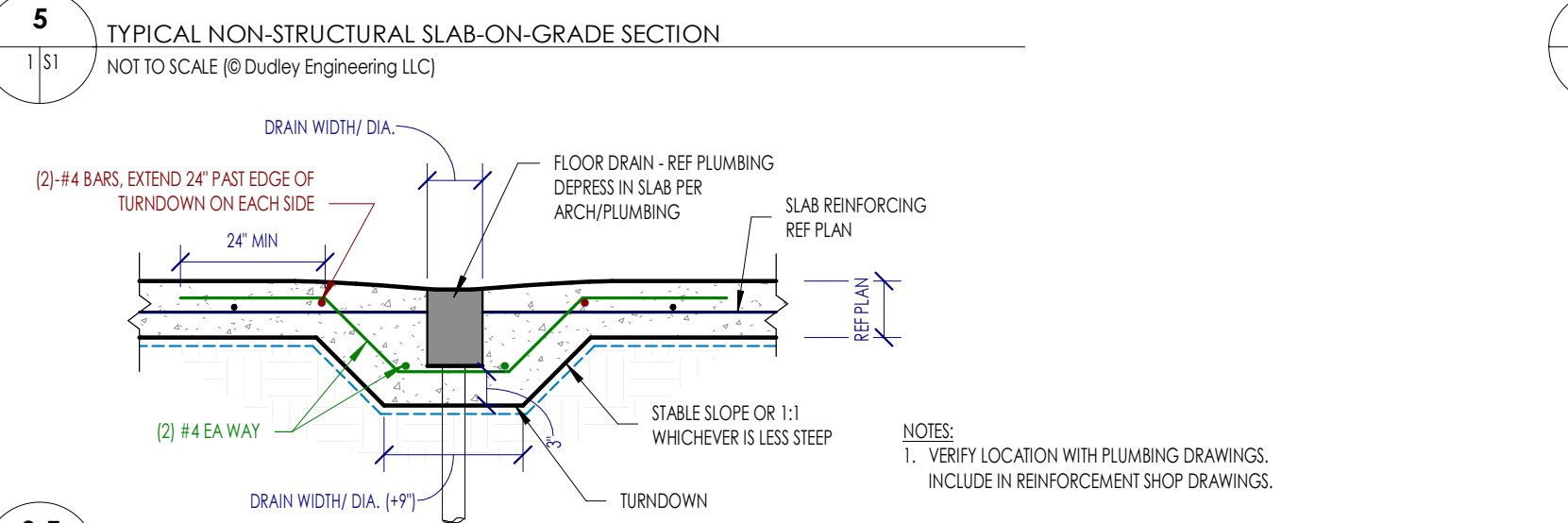
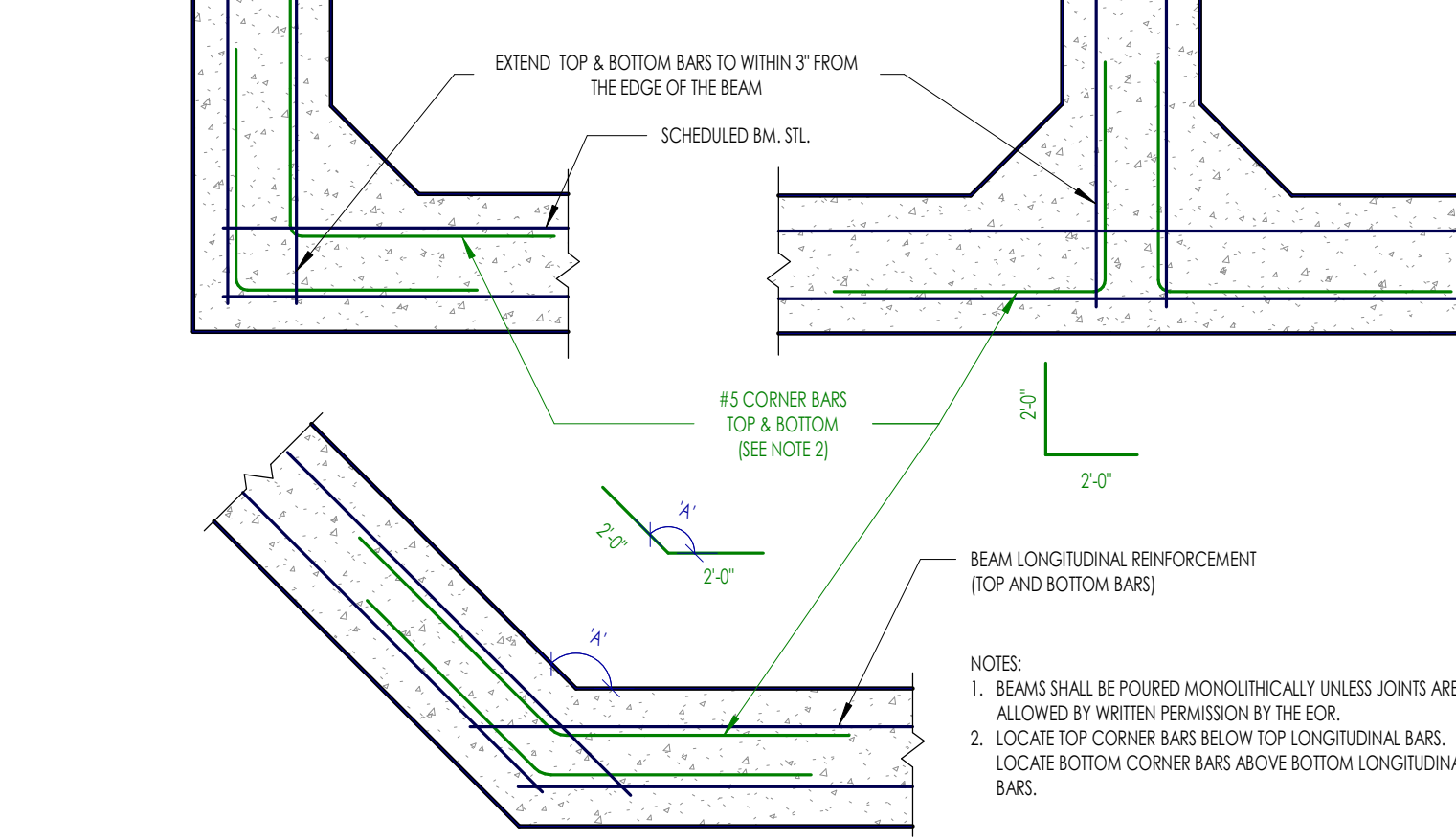
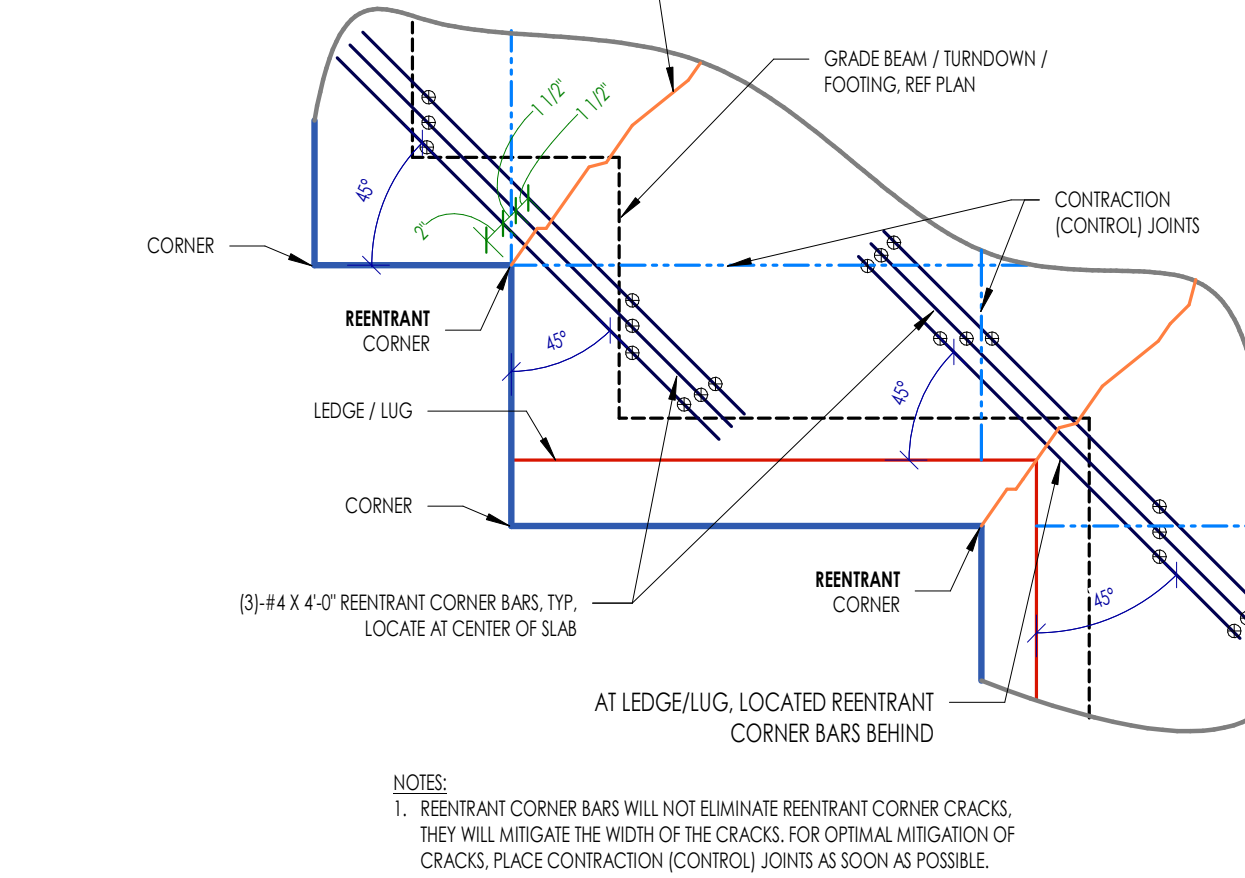
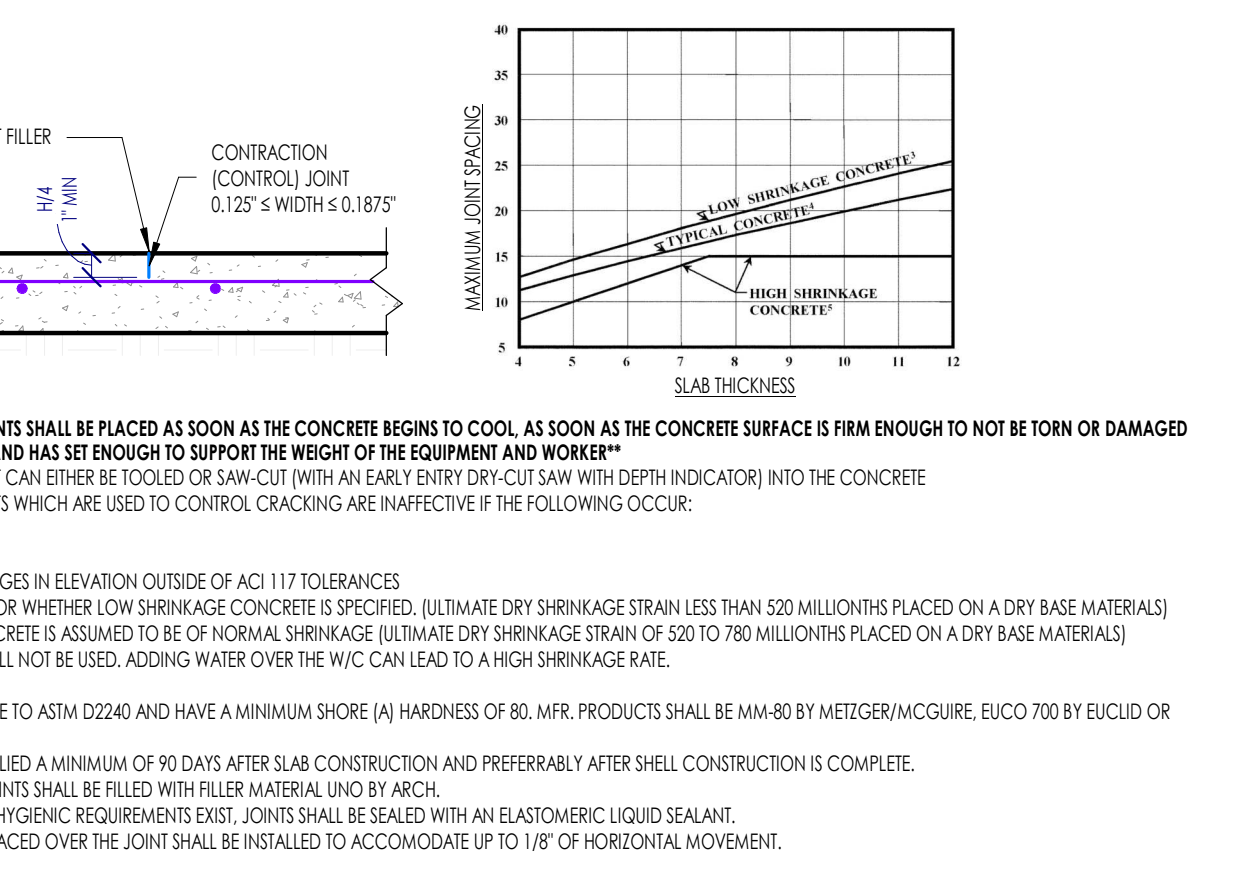
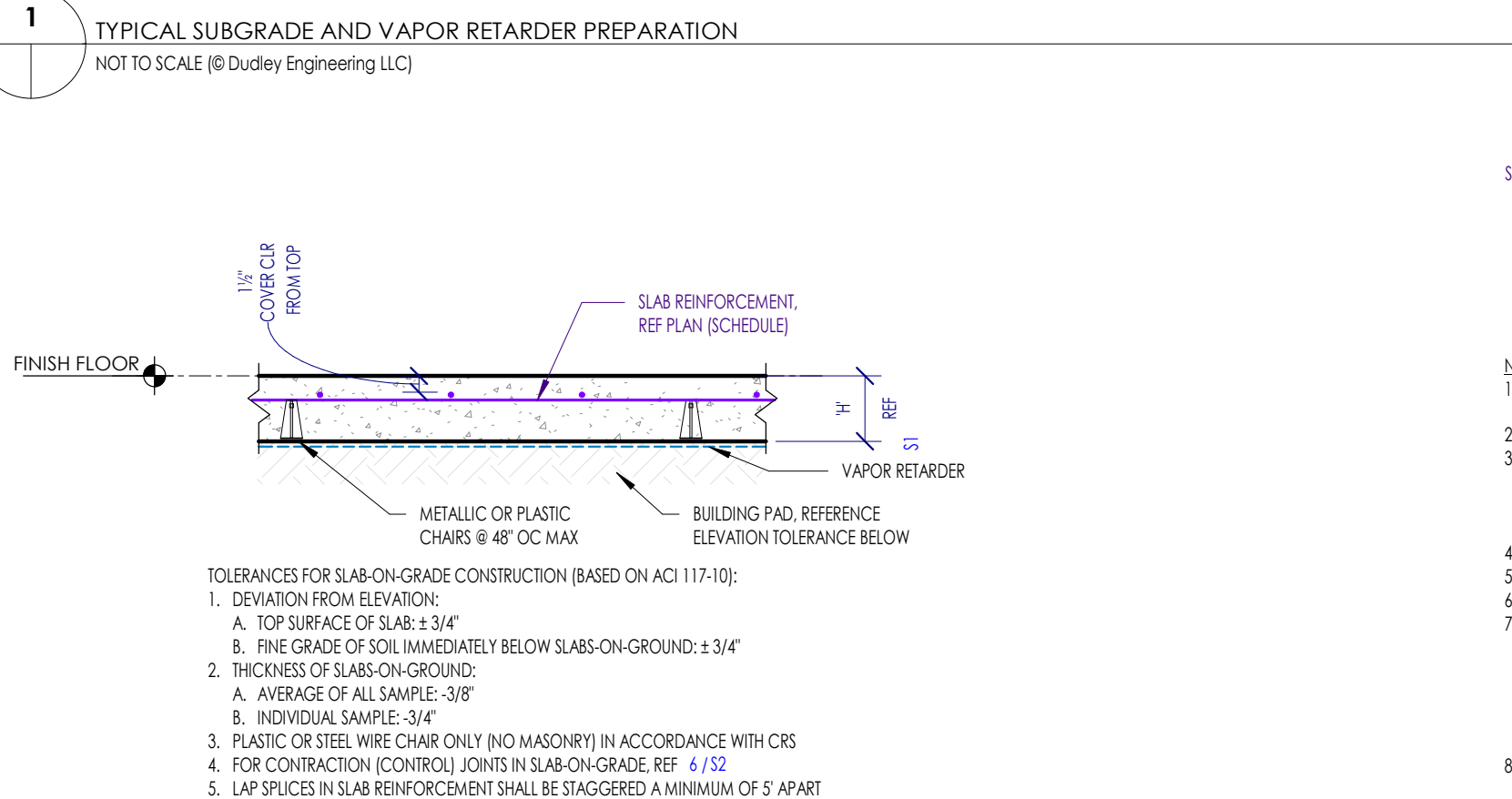
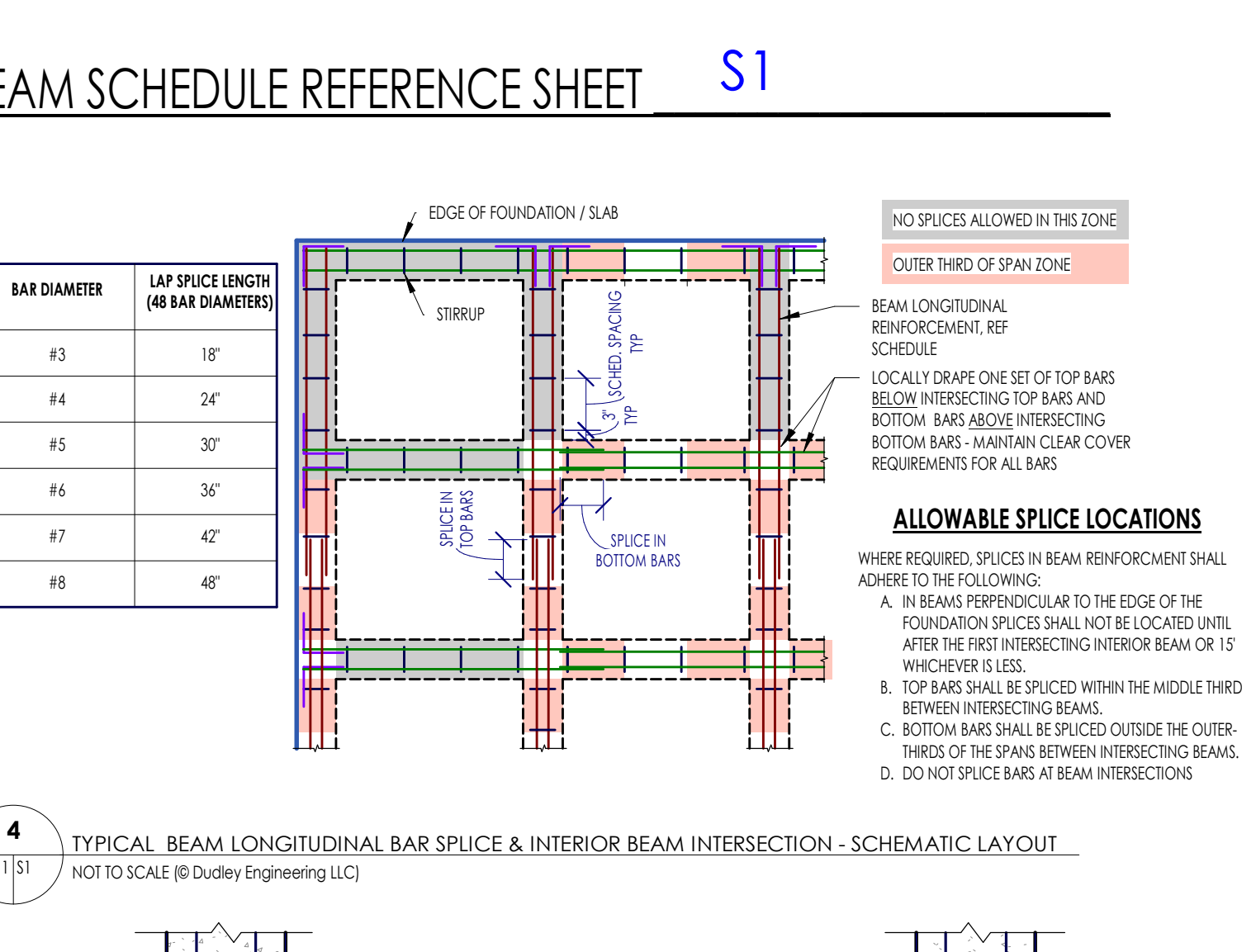
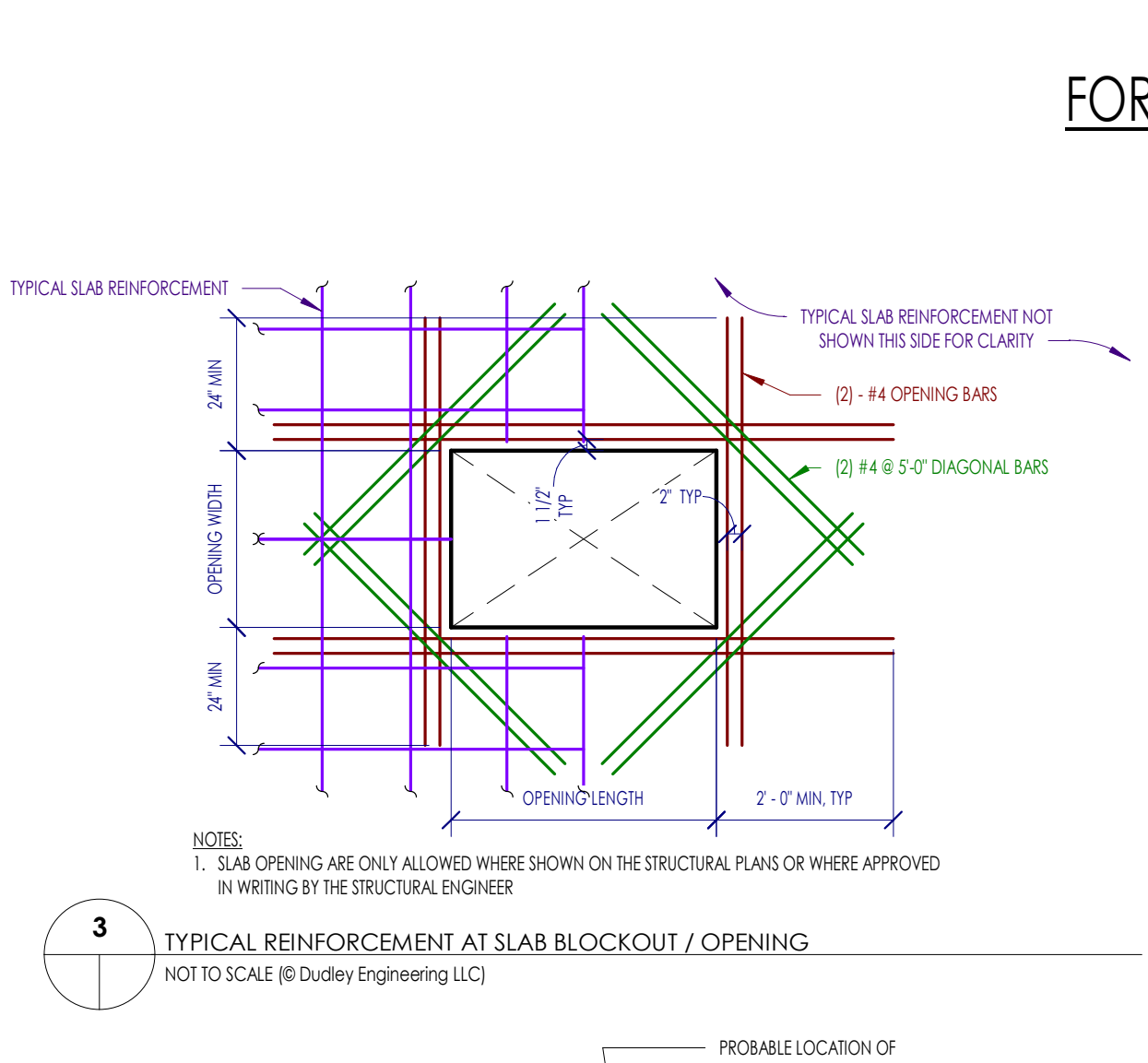
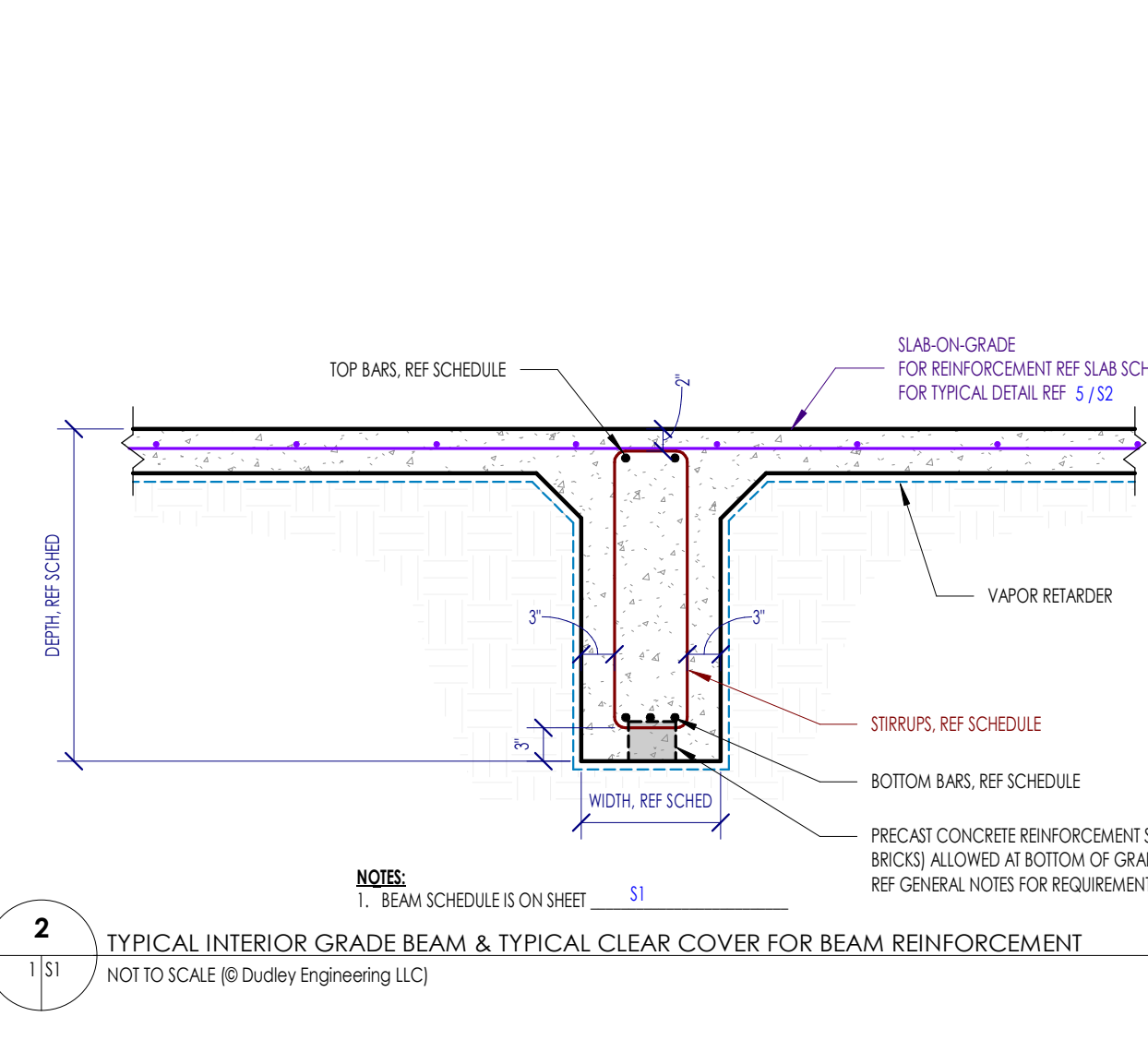
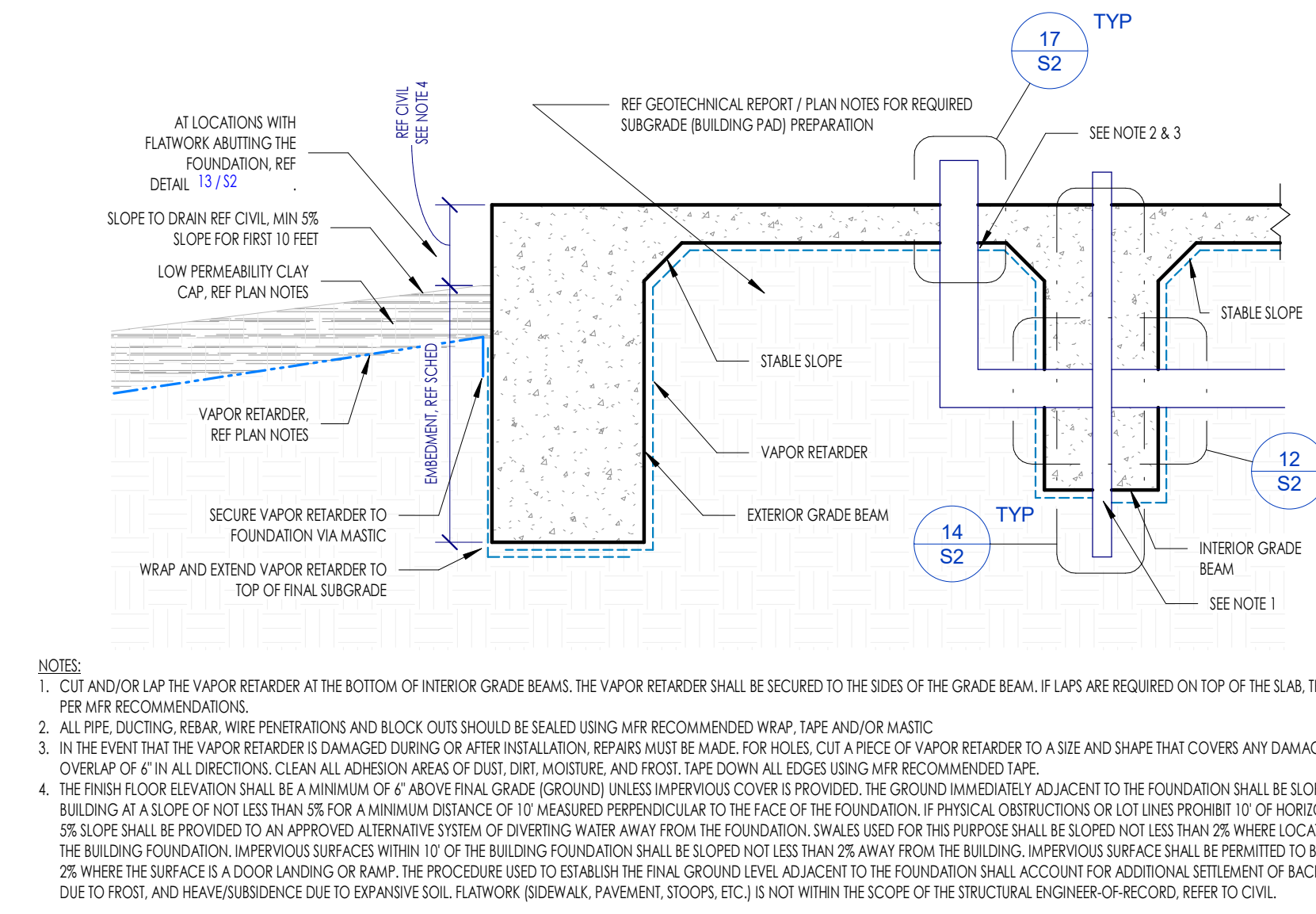
FOR BEAM SCHEDULE REFERENCE SHEET **S1**

Revision Schedule		
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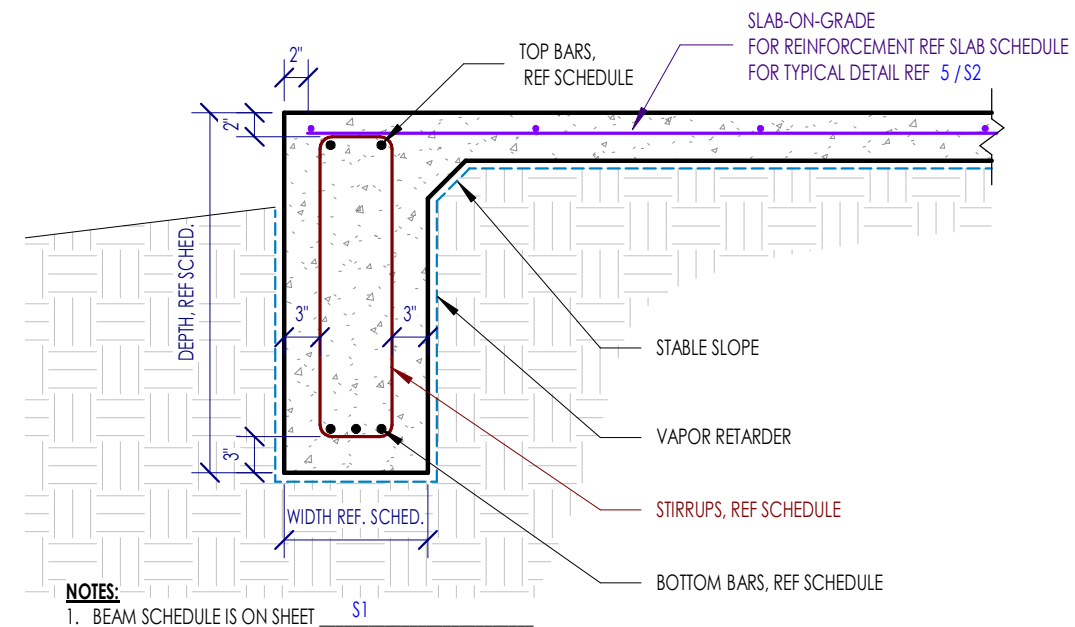
DUDLEY
 GEOTECHNICAL | STRUCTURAL | ENVIRONMENTAL
 6100 LANTANA BLVD. SUITE 2000, MONTGOMERY, TEXAS 77135
 (832) 979-0200 | (832) 979-0201

DETAILS

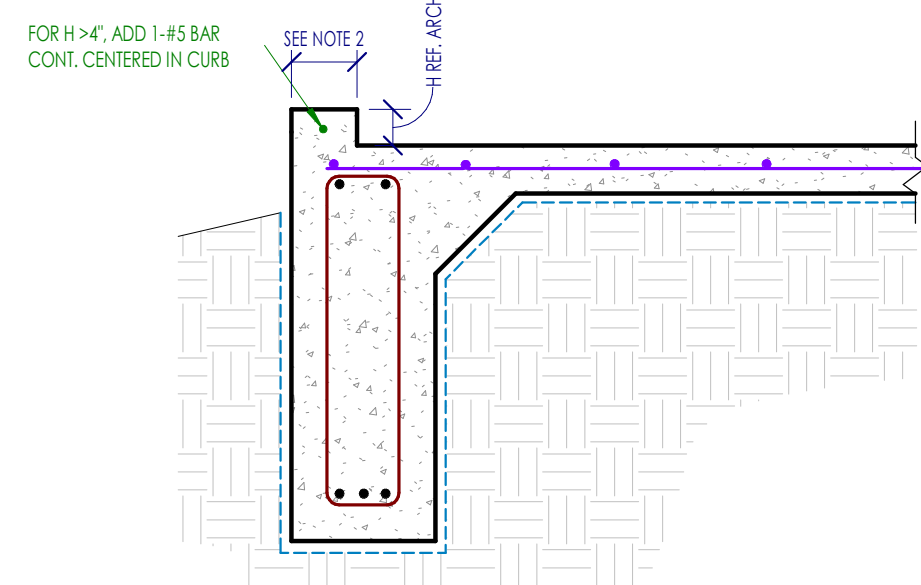
S2

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Project No: 23-00195

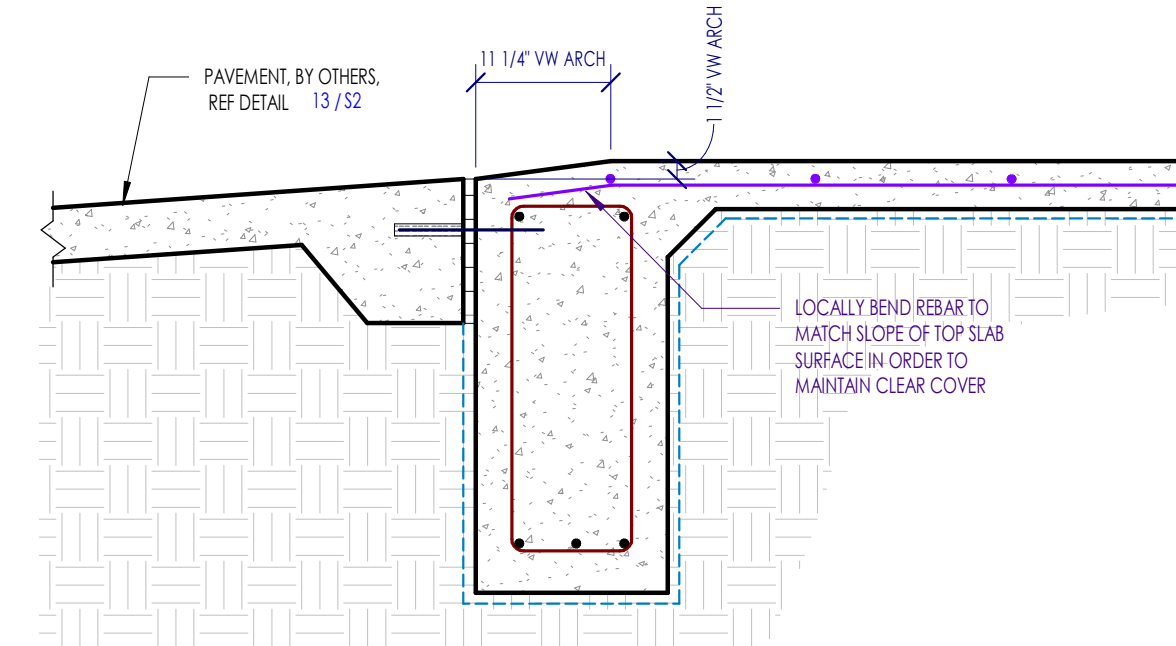


1
TYPICAL EXTERIOR GRADE BEAM
NOT TO SCALE (© Dudley Engineering LLC)



2
EXTERIOR GRADE BEAM W/ CURB
NOT TO SCALE (© Dudley Engineering LLC)

NOTES:
1. FOR INFORMATION NOT SHOWN, REFER TO DETAIL 49 / S2
2. WIDTH, REF ARCH. 3.5' MIN - 5.5' MAX. NOTIFY ENGINEER IF OUTSIDE OF THESE LIMITS



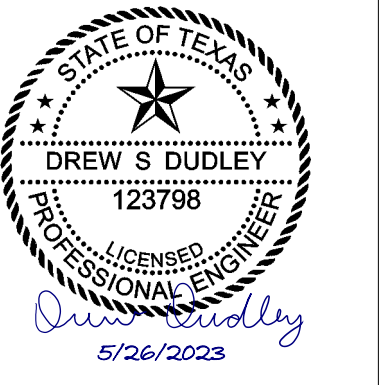
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TYPICAL EXTERIOR GRADE BEAM AT PAVEMENT AT OVERHEAD DOOR
NOT TO SCALE (© Dudley Engineering LLC)

NOTES:
1. FOR INFORMATION NOT SHOWN, REFER TO DETAIL 1 / S3

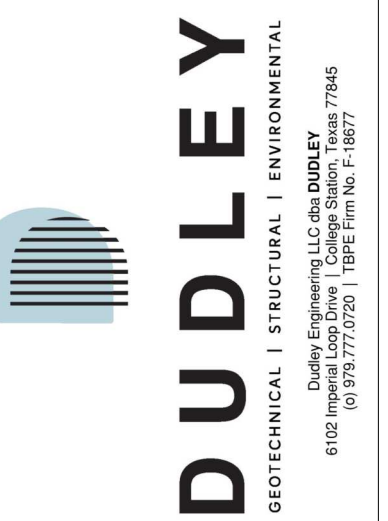
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S3

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