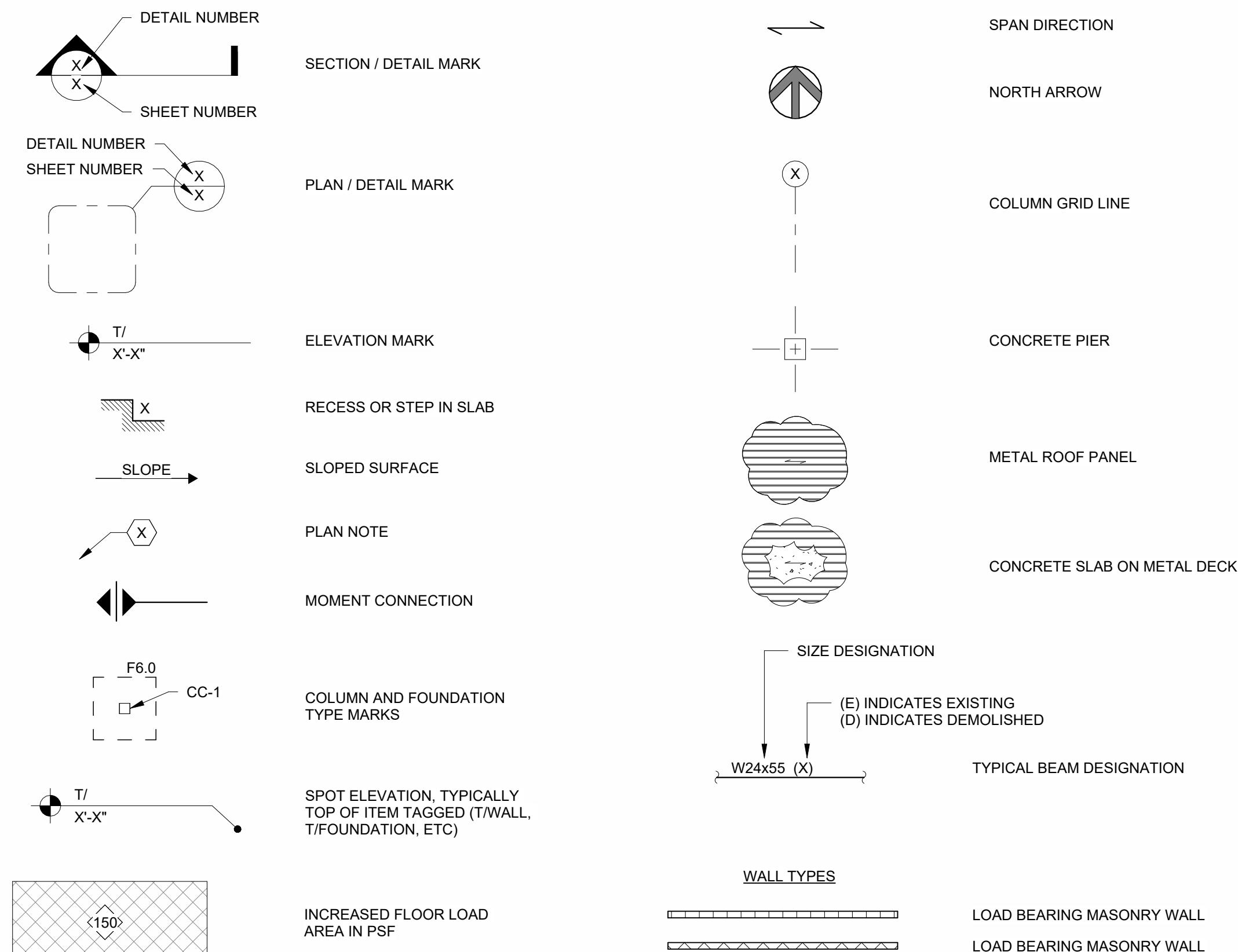


THE AMALGAMATED SUGAR COMPANY
EVAPORATOR EXPANSION PROJECT
VEI PROJECT E24140

STRUCTURAL ABBREVIATIONS

ABREVI	ABBREVIATION	LB	POUND
ACI	AMERICAN CONCRETE INSTITUTE	LGTH	LENGTH
ADD	ADDITIVE	LL	LIVE LOAD
ADDNL	ADDITIONAL	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISHED FLOOR	LLV	LONG LEG VERTICAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LONG.	LONGITUDINAL
AISI	AMERICAN IRON AND STEEL INSTITUTE	LSL	LAMINATED STRAND LUMBER
ALT	ALTERNATE/ALTERNATIVE	LT WT	LIGHT WEIGHT
ALLUM	ALUMINUM	LVL	LAMINATED VENEER LUMBER
ARCH	ARCHITECTURE/ARCHITECTURAL		
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	MATL	MATERIAL
AWS	AMERICAN WELDING SOCIETY	MAX	MAXIMUM
		MB	MASONRY BEAM
B/	BOTTOM OF	MC	MISCELLANEOUS CHANNEL/MASONRY COLUMN
BLDG	BUILDING	MECH	MECHANICAL
BLK	BLOCK	MET	METAL
BM	BEAM	MFR	MANUFACTURE/MANUFACTURER
BOT	BOTTOM	MID	MIDDLE
BPP	BASE PLATE/BEARING PLATE	MIN	MINIMUM
BRG	BEARING	MISC	MISCELLANEOUS
BTWN	BETWEEN	MO	MASONRY OPENING
		MPH	MILES PER HOUR
C	CHANNEL		
CB	CONCRETE BEAM	NGVD	NATIONAL GEODETIC VERTICAL DATUM
CC	CONCRETE COLUMN	NIC	NOT IN CONTRACT
CF	CUBIC FEET (FOOT)	NO	NUMBER
CIP	CAST IN PLACE	NS	NEAR SIDE
CJ	CONTRACTION JOINT	NTS	NOT TO SCALE
CL	CENTERLINE		
CLR	CLEAR/CLEARANCE	OC	ON CENTERS
CM	CONCRETE MASONRY	OD	OUTSIDE DIAMETER
CMU	CONCRETE MASONRY UNIT	O.F.	OUTSIDE FACE
CO	COMPANY	OPNG	OPENING
COP	COLUMN	OPP	OPPOSITE
CONC	CONCRETE	OSB	ORIENTED STRAND BOARD
CONT	CONTINUOUS		
CONN	CONNECTION	P/C	PRECAST CONCRETE/PILE CAP
CONST	CONSTRUCTION	P/T	POST TENSIONED
COORD	COORDINATE	PARL	PARALLEL
CSJ	CONSTRUCTION JOINT	PCB	PRECAST CONCRETE BEAM
CTR	CENTER	PCC	PRECAST CONCRETE COLUMN
CTRD	CENTERED	PCF	POUNDS PER CUBIC FEET
CY	CUBIC YARD	PEMB	PRE-ENGINEERED METAL BUILDING
		PEN	PENETRATION
DEPT	DEPARTMENT	P.J.	PANEL JOINT CENTERLINE
DET	DETAIL	PL	PLATE
DIA	DIAMETER	PLF	POUNDS PER LINEAR FOOT
DIAG	DIAGONAL	PLMG	PLUMBING
DIM	DIMENSION	PLY	PLYWOOD
DIS	DISTANCE	PREFAB	PREFABRICATED
DL	DEAD LOAD	PSF	POUNDS PER SQUARE FOOT
DN	DOWN	PSI	POUNDS PER SQUARE INCH
DWG	DRAWING	PSL	PARALLEL STRAND LUMBER
		PT	PRESSURE TREATED
EA	EACH		
EE	EACH END	R/W	REINFORCED WITH
EF	EACH FACE	RCMDS	RECOMMENDATIONS
EHPA	EMERGENCY HURRICANE PROTECTION AREA	RD	ROOF DRAIN
EXPJ	EXPANSION JOINT	REF	REFERENCE
ELEC	ELECTRIC/ELECTRICAL	REINF	REINFORCING
EL, ELEV	ELEVATION	REQD	REQUIRED
ENGR	ENGINEER	REV	REVISION
EOD	EDGE OF DECK	RTU	ROOF TOP UNIT
EOR	ENGINEER OF RECORD		
EQ SP	EQUAL SPACED	SB	SOFFIT BEAM
ES	EACH SIDE	SCHED	SCHEDULE
EW	EACH WAY	S.F.	SQUARE FEET
EXIST	EXISTING	SF	STRIP FOUNDATION
EXP	EXPANSION	SIM	SIMILAR
EXT	EXTERIOR	SPC	SPACE/SPACES
		SPECS	SPECIFICATIONS
F	FOUNDATION	SQ	SQUARE
FD	FLOOR DRAIN	SS	STAINLESS STEEL
FDN	FOUNDATION	STD	STANDARD
FF	FINISHED FLOOR	STIFF	STIFFENER
FIN	FINISH	STL	STEEL
FIN GR	FINISH GRADE	STRUCT	STRUCTURAL
FLR	FLOOR	SYM	SYMMETRICAL
FS	FAR SIDE		
FT	FEET/FOOT	T/	TOP OF
FTG	FOOTING	TB	TIE BEAM
FV	FIELD VERIFY	T&B	TOP AND BOTTOM
		TDS	TURN DOWN SLAB
GA	GAGE/GAUGE	TE	THICKENED EDGE
GALV	GALVANIZED	TEMP	TEMPERATURE
GB	GRADE BEAM	TENS	TENSION
GC	GENERAL CONTRACTOR	THD	THREAD/THREADED
GEN	GENERAL	THK	THICK
GL	GRID LINE	TOL	TOLERANCE
GS	GALVANIZED STEEL	TRANS	TRANSVERSE
		TS	TUBE STEEL
HD	HOT DIPPED	TS	THICKENED SLAB
HDG	HOT DIPPED GALVANIZED	TWF	THICKENED WALL FOUNDATION
HORIZ	HORIZONTAL	TYP	TYPICAL
HSA	HEADED STUD ANCHOR		
HSS	HOLLOW STRUCTURAL SECTION	UNO	UNLESS NOTED OTHERWISE
HT	HEIGHT		
		VERT	VERTICAL
I	MOMENT OF INERTIA	VOL	VOLUME
ID	INSIDE DIAMETER		
IF	INSIDE FACE	W	WIDE FLANGE SECTION
IN.	INCH	W/	WITH
INT	INTERIOR	WO	WITHOUT
		WD	WOOD
JST	JOIST	WF	WALL FOOTING
JT	JOINT	WP	WORKING POINT
		WS	WELDED STUD
K	KIP (1000 LB)	WT	WEIGHT/STRUCTURAL TEE SECTION
KLF	KIPS PER LINEAL FOOT	WWF	WELDED WIRE FABRIC
KSI	KIPS PER SQUARE INCH		
KWY	KEYWAY	@	AT DESIGNATION
		#	POUNDS / REBAR SIZE NUMBER
		-/+	PLUS OR MINUS, FIELD VERIFY QUANTITY
		L	ANGLE
		&	AND

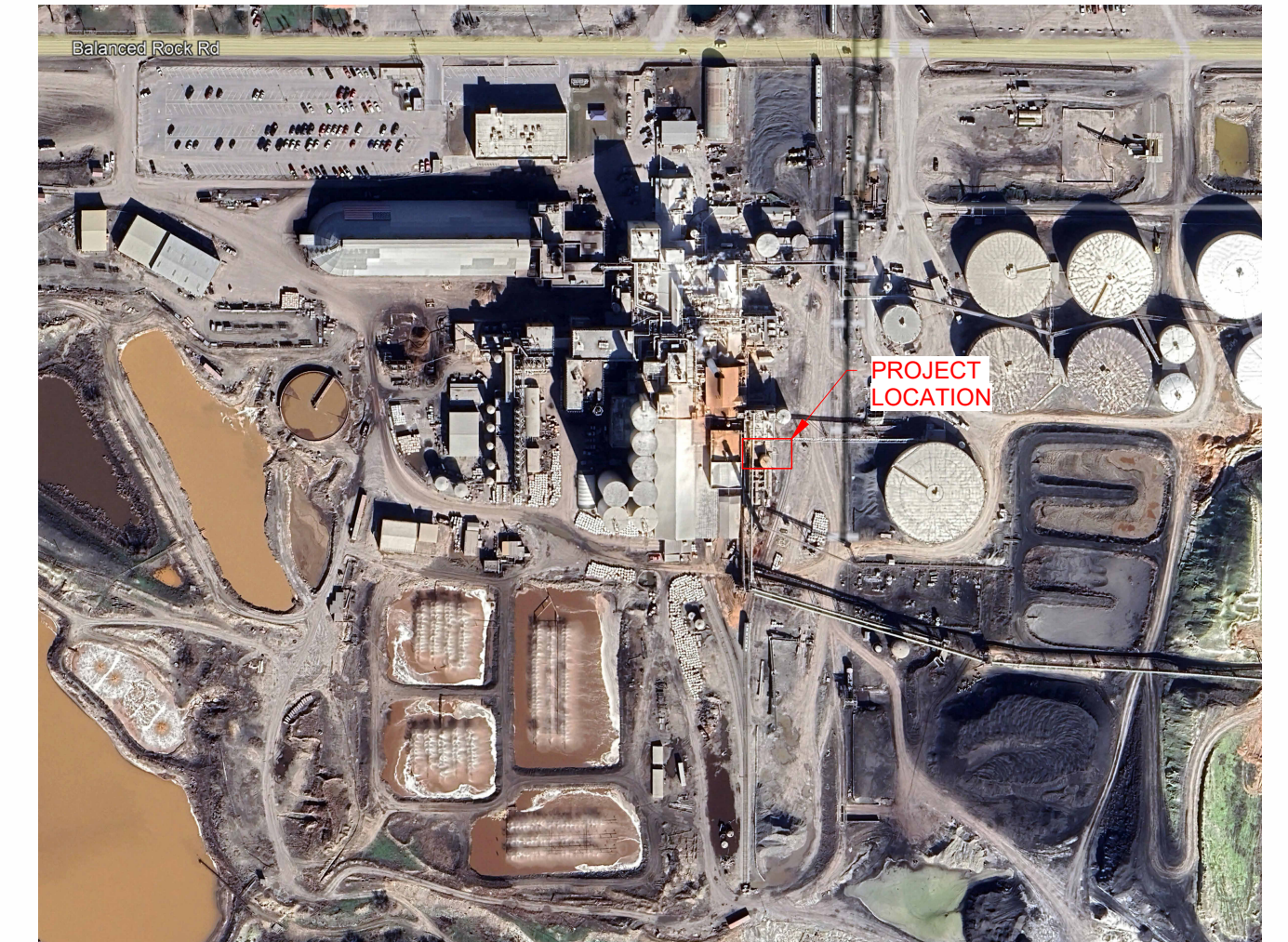
STRUCTURAL SYMBOLS AND LEGEND



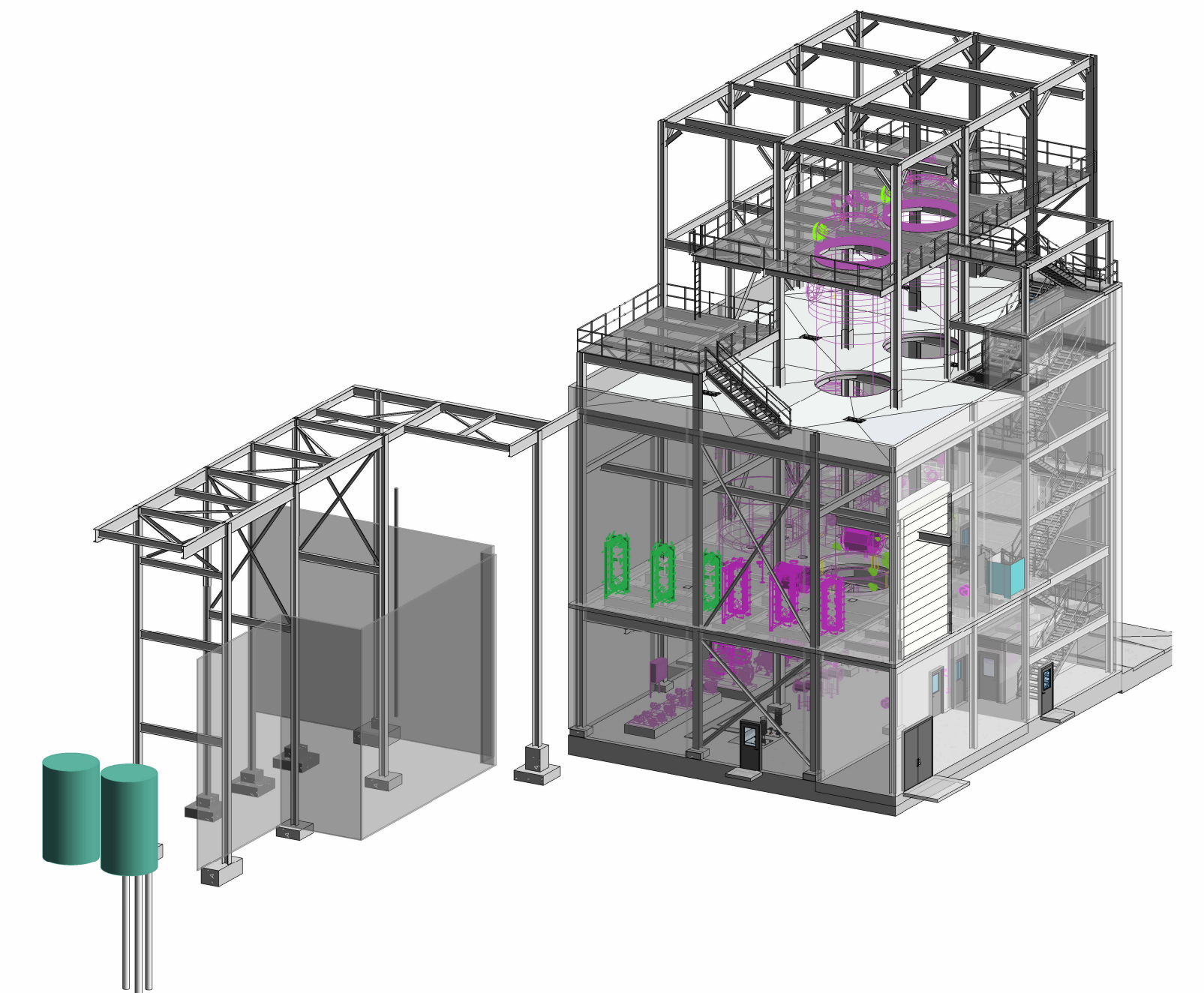
NOTE: SYMBOLS AND LEGEND SHOWN ARE
GENERIC AND DO NOT NECESSARILY INDICATE
ACTUAL OCCURRENCES IN THESE DRAWINGS.

STRUCTURAL SHEET INDEX	
SHEET #	SHEET TITLE
S0.00	STRUCTURAL ABBREVIATIONS, SYMBOLS AND LEGEND, AND STRUCTURAL SHEET INDEX
S0.01	GENERAL STRUCTURAL NOTES AND SPECIFICATIONS
S0.02	GENERAL STRUCTURAL NOTES AND SPECIFICATIONS
S0.03	GENERAL STRUCTURAL NOTES AND SPECIFICATIONS
S0.04	GENERAL STRUCTURAL NOTES AND SPECIFICATIONS
S0.11	COMPONENT AND CLADDING DIAGRAM AND TABLES
LS1.11	FOUNDATION AND SLAB ON GRADE PLAN
S1.01	FOUNDATION AND SLAB ON GRADE PLAN
S1.02	COLUMN, PIER, AND BASEPLATE SCHEDULE
S2.01	STRUCTURAL STEEL FRAMING PLANS
S2.02	STRUCTURAL STEEL FRAMING PLANS
S2.03	STRUCTURAL STEEL FRAMING PLANS
S2.12	ROOFING AND DRAINAGE PLAN
S3.01	CONCRETE DETAILS AND SECTIONS
S3.02	CONCRETE DETAILS AND SECTIONS
S3.03	CONCRETE DETAILS AND SECTIONS

STRUCTURAL SHEET INDEX	
SHEET #	SHEET TITLE
S4.11	BUILDING ELEVATIONS
S4.01	BRACED FRAME ELEVATIONS
S4.02	BRACED FRAME ELEVATIONS
S4.12	BUILDING ELEVATIONS
S5.01	STRUCTURAL STEEL FRAMING DETAILS AND SECTIONS
S5.02	STRUCTURAL STEEL FRAMING DETAILS AND SECTIONS
S5.03	STRUCTURAL STEEL FRAMING DETAILS AND SECTIONS
S5.05	STRUCTURAL STEEL FRAMING DETAILS AND SECTIONS
S5.04	STRUCTURAL STEEL FRAMING DETAILS AND SECTIONS
S5.11	STAIR DIAGRAMS AND DETAILS
S5.12	STAIR DIAGRAMS AND DETAILS
S6.01	TYPICAL MASONRY DETAILS AND SECTIONS
S7.01	ROOFING AND PARAPET DETAILS
S7.02	WALL PANEL DETAILS
S7.03	DOOR OPENING DETAILS AND SECTIONS



1 SITE LOCATION PLAN
NTS

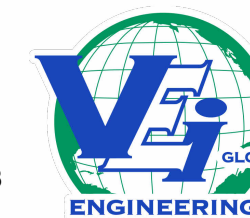


2 PROJECT ISOMETRIC VIEW

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**PRELIMINARY
NOT FOR
CONSTRUCTION
20 JUNE 2025**

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Title: AMALGAMATED SUGAR COMPANY EVAPORATOR PROJECT
STRUCTURAL ABBREVIATIONS, SYMBOLS AND LEGEND, AND STRUCTURAL SHEET INDEX



AMALGAMATED SUGAR COMPANY
2320 ORCHARD DRIVE EAST
TWIN FALLS, ID 83301

Date: 04/11/25
Chkd By: S. WILSON
Dsgn By: D. VIELE

Project:	E24140	Re
Dwg:	S0.00	/

A	B	C	D	E	F	G	H	J	K	L
GENERAL NOTES AND STRUCTURAL SPECIFICATIONS										
1. GENERAL NOTES			2.3. UNIFORM ROOF LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):			STEEL MATERIALS, STRUCTURAL STEEL FRAMING, AND PRECAST CONCRETE, JOISTS, BEAMS, COLUMNS, SLABS, WALLS AND CLADDING.			3.14.4. SOIL CONSISTING OF INERT EARTH MATERIALS WITH LESS THAN 3% ORGANICS OR OTHER DELETERIOUS SUBSTANCES (WOOD, METAL, PLASTIC, WASTE, ETC.)	
1.1. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, ENGINEER, SUPPLIER, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS. NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE STRUCTURAL ENGINEER OF RECORD OR ANY OF THE STRUCTURAL ENGINEER OF RECORD'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.			2.3.1. ROOF20 SF			2.10.3. SPECIAL INSPECTION AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE MAY BE WAIVED FOR ITEMS WHICH ARE PRODUCED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVAL SHALL BE BASED UPON REVIEW OF THE FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND BY PERIODIC AUDITING OF FABRICATION PRACTICES BY AN APPROVED SPECIAL INSPECTION AGENCY. THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE CHIEF COMMERCIAL BUILDING INSPECTOR OR HIS DESIGNEE WHICH STATES THAT THE FABRICATION WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.			3.15. PLACEMENT OF FILL/SUBBASE	
1.2. CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR.			2.4. SNOW LOADS			2.10.4. THE PROJECT CONTRACTOR WILL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PERFORM INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE DURING CONSTRUCTION OF THE PROJECT. DOCUMENTATION THAT SUMMARIZES THE QUALIFICATION AND CREDENTIALS OF EACH SPECIAL INSPECTOR AND DEMONSTRATES COMPETENCE FOR INSPECTION OF EACH PARTICULAR TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION SHALL BE SUBMITTED TO THE CHIEF COMMERCIAL BUILDING INSPECTOR OR HIS DESIGNEE FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.			3.15.1. DO NOT PLACE ON SUBGRADE THAT CONTAINS FROST, MUD, OR IS FROZEN.	
1.3. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.			2.4.1. GROUND SNOW LOADPG = 30 PSF			2.10.5. APPROVED SPECIAL INSPECTORS SHALL FURNISH INSPECTION REPORTS TO THE CHIEF COMMERCIAL BUILDING INSPECTOR OR HIS DESIGNEE AND TO THE OWNER WHICH INDICATES THAT THE WORK INSPECTED WAS DONE IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. A FINAL REPORT WHICH DOCUMENTS THE RESULTS OF THE SPECIAL INSPECTIONS PERFORMED INCLUDING CORRECTION OF ANY DISCREPANCIES IDENTIFIED DURING INSPECTION SHALL BE SUBMITTED PERIODICALLY AT A FREQUENCY APPROVED BY THE CHIEF COMMERCIAL BUILDING INSPECTOR PRIOR TO CONSTRUCTION.			3.15.2. STRUCTURAL FILL SHALL BE PLACED AND COMPACTED IN 10-INCH MAXIMUM THICK LOOSE LAYER.	
1.4. CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, SJI OR OTHER STANDARDS. WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.			2.4.2. SNOW EXPOSURE COEFFICIENTC _e = 0.9			2.11. NO PROVISIONS HAVE BEEN MADE FOR FUTURE VERTICAL EXPANSION. DESIGN HAVE BEEN COMPLETED TO INCLUDE A FUTURE BAY TO THE EAST SIMILAR TO THE CURRENT EAST BAY.			3.15.3. STRUCTURAL FILL SHALL CONTAIN NO ORGANIC MATERIAL AND BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT. STRUCTURAL FILL UNDER SLABS AND WITHIN 5'-0" OF THE BUILDING FOOTPRINT SHALL BE PLACED IN LIFTS OF THICKNESS DETERMINED BY THE INDEPENDENT TESTING AGENCY AND COMPACTED TO AT LEAST 95% OF ITS MODIFIED PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D1557. THE TOP 12" SUB-BASE UNDER SLABS ON GRADE SHALL BE COMPACTED TO AT LEAST 98% OF ITS MODIFIED PROCTOR MAXIMUM DRY DENSITY. ALL BACKFILL, COMPACTION AND PROOF ROLLING OPERATIONS SHALL BE OBSERVED BY AN INDEPENDENT TESTING LABORATORY.	
1.5. COPIES OF THE SITE SUBSURFACE INVESTIGATION WILL BE MADE AVAILABLE UPON REQUEST. THE OWNER WILL NOT BE RESPONSIBLE FOR INTERPRETATION OR CONCLUSIONS DRAWN THEREFROM BY THE CONTRACTOR. THE DATA IS MADE AVAILABLE FOR THE CONVENIENCE OF THE CONTRACTOR AND IS NOT GUARANTEED TO REPRESENT ALL CONDITIONS THAT MAY BE OCCURRED.			2.4.3. SNOW LOAD IMPORTANCE FACTORI = 1.1			3.1. FOUNDATION DESIGN IS BASED ON THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT PREPARED BY STRATA, REPORT NUMBER TF24239E DATED JANUARY 7, 2025. STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT TO THOSE ASSUMED FOR DESIGN.			3.15.4. SLABS-ON-GRADE SHALL BE PLACED ON A 4" GRANULAR BASE, COMPACTED TO 95% OF ITS MODIFIED PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D1557, AND COVERED WITH A 10 MIL CONTINUOUSLY SEALED VAPOR BARRIER. THE BASE FOR SLABS-ON-GRADE SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER PRIOR TO EACH PLACEMENT OF CONCRETE.	
1.6. MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.			2.4.4. THERMAL FACTORC _t = 1.2			3.2. CONTRACTOR MAY EXAMINE THE SITE AND MAKE THEIR OWN SUBSURFACE EXPLORATION AT NO ADDITIONAL COST TO THE OWNER. NOTIFY OWNER PRIOR TO MAKING ANY SUBSURFACE EXPLORATIONS.			3.15.5. BACKFILL SHALL NOT BE PLACED AGAINST EXTERIOR OR RETAINING WALLS UNTIL THE WALLS HAVE ACHIEVED THEIR DESIGN STRENGTH AND THEIR LATERAL SUPPORT ELEMENTS ARE INSTALLED. PROVIDE ADEQUATE DRAINAGE AT BASEMENT AND RETAINING WALLS.	
1.7. CONTRACTOR SHALL COORDINATE THE STRUCTURAL DOCUMENTS WITH THE MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DOCUMENTS. ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION.			2.4.5. PONDING AND DRIFT EFFECTS HAVE BEEN INCLUDED IN THE DESIGN.			3.3. NOTIFY THE OWNER/STRUCTURAL ENGINEER 48 HOURS PRIOR TO THE BEGINNING OF EXCAVATION WORK.			3.15.6. COMPACT BACKFILL BEHIND WALLS SHALL BE PLACED IN LAYERS OF 10_ INCHES.	
1.8. CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. OWNER/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.			2.5. CONCENTRATED FLOOR LOADS - DISTRIBUTED OVER AN AREA OF 2-1/2 SQUARE FEET, UNLESS NOTED OTHERWISE:			3.4. LOCATE EXISTING UTILITIES BY CAREFUL HAND EXCAVATION. IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE PROTECTION FROM DAMAGE DURING CONSTRUCTION OPERATIONS. COOPERATE WITH OWNER AND UTILITY COMPANIES IN KEEPING RESPECTIVE SERVICES AND FACILITIES IN OPERATION. DO NOT INTERRUPT EXISTING UTILITY SERVICES AND FACILITIES UNLESS WRITTEN PERMISSION IS GIVEN BY THE OWNER AND THEN ONLY AFTER TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.			3.15.7. COMPACT BACKFILL BEHIND WALLS TO 95% OF THE MAXIMUM DRY DENSITY AS MEASURED BY THE MODIFIED PROCTOR, ASTM D1557	
1.9. CONTRACTOR SHALL HAVE THE STRUCTURE LOCATION STAKED AND CERTIFIED BY A LICENSED SURVEYOR. IF DISCREPANCIES BETWEEN ACTUAL LINES AND ELEVATIONS EXIST, NOTIFY STRUCTURAL ENGINEER BEFORE PROCEEDING WITH LAYOUT OF STRUCTURE.			2.5.1. CATWALK AND ACCESS PLATFORMS300 LB			3.5. SHOULD UNCHARTED OR INCORRECTLY CHARTED PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT WITH OWNER IMMEDIATELY FOR DIRECTIONS.			3.16. REMOVE EXCESS EXCAVATED MATERIALS FROM THE JOB SITE AND LEAVE SITE IN "CLEAN" CONDITION UPON COMPLETION	
1.10. CONTRACTOR SHALL VERIFY THE STRUCTURALLY SUPPORTED MECHANICAL EQUIPMENT WEIGHTS, OPENING SIZES AND LOCATIONS IDENTIFIED ON THE STRUCTURAL DRAWINGS WITH MECHANICAL DRAWINGS.			2.5.2. MANUFACTURING HEAVY3000 LB			3.6. REPAIR DAMAGED SERVICES TO SATISFACTION OF UTILITY OWNER.			3.17. TESTING/INSPECTION AGENCY SHALL PERFORM THE FOLLOWING QUALITY RELATED ITEMS	
1.11. CONTRACTOR SHALL VERIFY THAT MISCELLANEOUS FRAMING SHOWN ON THE STRUCTURAL DRAWINGS FOR MECHANICAL EQUIPMENT, OWNER-FURNISHED ITEMS, PARTITIONS, ETC. IS CONSISTENT WITH THE REQUIREMENTS OF SUCH ITEMS.			2.6. DEAD LOADS (IN ADDITION TO STRUCTURE SELF-WEIGHT):			3.7. FOOTINGS HAVE BEEN DESIGNED WITH AN ALLOWABLE BEARING CAPACITY OF 5000 PSF.			3.17.1. VERIFY STRUCTURAL FILL COMPLIES WITH THE GENERAL NOTES AND GEOTECHNICAL REPORT, IF APPLICABLE.	
1.12. CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.			2.6.1. PIPING ALLOWANCE20 PSF			3.8. STRUCTURAL TESTING/INSPECTION AGENCY SHALL CERTIFY THE BEARING MEDIUM.			3.17.2. DETERMINE PARTICLE SIZE, LIQUID LIMIT, PLASTIC LIMIT, PLASTICITY INDEX, AND MAXIMUM DENSITY OF EACH SOIL TYPE.	
1.13. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.			2.6.2. GRATING15 PSF			3.9. NO FOOTINGS SHALL BEAR ON ROCK. UNDERCUT ROCK A MINIMUM OF 2 FEET			3.17.3. PERFORM A SUFFICIENT NUMBER OF FIELD DENSITY TESTS TO VERIFY COMPACTION OF STRUCTURAL FILL. AS A MINIMUM, PERFORM ONE TEST PER LIFT FOR EVERY 1500 SQUARE FEET OF FILL PLACED.	
1.14. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.			2.6.3. ROOFING10 PSF			3.10. UNDERCUT THE ENTIRE BUILDING AREA TO THE EXTENT FIVE FEET BEYOND THE BUILDING ENVELOPE AND A DEPTH OF SIX FEET AND REPLACE WITH COMPACTED STRUCTURAL FILL AS REQUIRED BY THE GEOTECHNICAL REPORT.			3.18. FOOTINGS SHALL BE CENTERED ABOUT COLUMN LINES UNLESS NOTED OTHERWISE.	
1.15. ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO THE CONTRACTOR. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.			2.7. WIND LOADS:			3.11. GROUNDWATER MAY BE ENCOUNTERED DURING THE FOUNDATION EXCAVATION. PROVIDE A SYSTEM FOR CONTROLLING THE GROUNDWATER TO A LEVEL AT LEAST THREE FEET BELOW THE LOWEST POINT OF THE EXCAVATION.			3.19. ALL FOOTINGS AND TURN DOWN SLAB EDGES SHALL PENETRATE TO A MINIMUM DEPTH OF 24" BELOW FINISHED GRADE.	
1.16. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE STRUCTURAL ENGINEER. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.			2.7.1. BASIC WIND SPEED117 MPH			3.12. KEEP EXCAVATIONS DRY BY SLOPING THE GROUND AWAY FROM HOLES AND TRANCHES. AREAS FOUND TO BE SOFT OR SLUMPING SHALL HAVE THE SOFT SOIL REMOVED AND REPLACES WITH THE SPECIFIED STRUCTURAL FILL AND COMPACTED AS OUTLINED HEREIN.			3.20. SIDES OF FOUNDATIONS SHALL BE FORMED UNLESS CONDITIONS PERMIT EARTH FORMING.	
1.17. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THE TYPICAL DETAILS UNLESS THOSE LOCATIONS ARE SPECIFICALLY DETAILED OTHERWISE.			2.7.2. EXPOSURE,C			3.13. GRANULAR STRUCTURAL FILL			3.21. FOUNDATIONS POURED AGAINST EARTH REQUIRE THE FOLLOWING PRECAUTIONS:	
1.18. SCALING OF DRAWINGS SHALL NOT BE USED TO OBTAIN OR VERIFY ANY DIMENSION SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE ENGINEER FOR ANY DIMENSION NOT PROVIDED ON THE DRAWINGS.			2.7.3. RISK CATEGORYII			3.13.1. ALLOWABLE USES: GENERAL STRUCTURAL FILL AND OVER-EXCAVATIONS			3.21.1. SLOPE SIDES OF EXCAVATIONS AS APPROVED BY A GEOTECHNICAL ENGINEER.	
1.19. CONTRACTOR SHALL COORDINATE THE STRUCTURAL DOCUMENTS WITH THE MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DOCUMENTS. ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION.			2.7.4. INTERNAL PRESSURE COEFFICIENT			3.13.2. SOIL CLASSIFIED AS GW, GP, GP-GM, SP AND SP-SM ACCORDING TO THE USCS,AND MEETING THE GRADATION OF 6- INCH MINUS AND LESS THAN 10% PASSING #200 SIEVE			3.21.2. CLEAN UP SLOUGHING PRIOR TO AND DURING CONCRETE PLACEMENT.	
1.20. CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. OWNER/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.			2.7.5. ENCLOSED BUILDINGSG _{Ce} = +/- 0.18			3.13.3. SOIL MEETING REQUIREMENTS STATED IN THE LATEST EDITION OF THE IDAHO STANDARD FOR PUBLIC WORKS CONSTRUCTION (ISPMC), SECTION 801 - AGGREGATE SUBBASE, WITH A MAXIMUM PARTICLE SIZE OF 6 INCHES			3.21.3. WHERE STEPPED FOUNDATIONS ARE NECESSARY, THE STEPS SHALL NOT BE STEEPER THAN ONE VERTICAL TO TWO HORIZONTAL.	
1.21. CONTRACTOR SHALL HAVE THE STRUCTURE LOCATION STAKED AND CERTIFIED BY A LICENSED SURVEYOR. IF DISCREPANCIES BETWEEN ACTUAL LINES AND ELEVATIONS EXIST, NOTIFY STRUCTURAL ENGINEER BEFORE PROCEEDING WITH LAYOUT OF STRUCTURE.			2.7.6. SEE COMPONENT AND CLADDING DESIGN WIND PRESSURE DIAGRAM			3.14. GENERAL STRUCTURAL FILL			4. CONCRETE REINFORCEMENT NOTES	
1.22. CONTRACTOR SHALL VERIFY THE STRUCTURALLY SUPPORTED MECHANICAL EQUIPMENT WEIGHTS, OPENING SIZES AND LOCATIONS IDENTIFIED ON THE STRUCTURAL DRAWINGS WITH MECHANICAL DRAWINGS.			2.8. EARTHQUAKE LOADS:			3.14.1. ALLOWABLE USES: GENERAL SITE GRADING			4.1. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60 DEFORMED BAR, UNLESS NOTED OTHERWISE.	
1.23. CONTRACTOR SHALL VERIFY THAT MISCELLANEOUS FRAMING SHOWN ON THE STRUCTURAL DRAWINGS FOR MECHANICAL EQUIPMENT, OWNER-FURNISHED ITEMS, PARTITIONS, ETC. IS CONSISTENT WITH THE REQUIREMENTS OF SUCH ITEMS.			2.8.1. OCCUPANCY CATEGORY,F-1			3.14.2. STRUCTURAL FILL SHALL CONSIST OF SOIL CLASSIFIED AS GW, GP, GP-GM, GM, SW, SP, SP-SM, SM, SP-SC, SC,ML OR CL ACCORDING TO THE USCS.			4.2. REINFORCING STEEL SUBJECT TO WELDING SHALL CONFORM TO ASTM A706, GRADE 60, DEFORMED BAR, USE ONLY LOW HYDROGEN (E80XX) ELECTRODES, AND WELD IN ACCORDANCE WITH AWS D12.1 AND OR AWS D1.4. WELD ONLY AS INDICATED.	
1.24. CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.			2.8.2. SEISMIC IMPORTANCE FACTOR,1.0			3.14.3. MAXIMUM PARTICLE SIZE MUST BE LESS THAN 6 INCHES			4.3. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A185 AND HAVE MINIMUM SIDE AND END LAPS OF 8". WWR SHALL BE PROVIDED IN FLAT SHEETS ONLY.	
1.25. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.			2.8.3. MAPPED SPECTRAL ACCELERATION FOR SHORT PERIODS _{S_w} =0.197			Title: AMALGAMATED SUGAR COMPANY EVAPORATOR PROJECT GENERAL NOTES AND STRUCTURAL SPECIFICATIONS			Date: 2025.04.10 Chkd By: S. WILSON Dsgn By: D. VIELE	
1.26. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.			2.8.4. MAPPED SPECTRAL ACCELERATION FOR A 1 SECOND PERIOD _{S₁} =0.083			Date: 2025.04.10 Chkd By: S. WILSON Dsgn By: D. VIELE			Dwg Size: 24X36	
1.27. ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO THE CONTRACTOR. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.			2.8.5. SHORT PERIOD DESIGN SPECTRAL RESPONSE COEFFICIENT _{S_{DS}} =0.170			Project: E24140			Revision: C	
1.28. SCALING OF DRAWINGS SHALL NOT BE USED TO OBTAIN OR VERIFY ANY DIMENSION SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE ENGINEER FOR ANY DIMENSION NOT PROVIDED ON THE DRAWINGS.			2.8.6. 1 SECOND PERIOD DESIGN SPECTRAL RESPONSE COEFFICIENT _{S_{D1}} =0.083			Dwg: S0.01				
1.29. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THE TYPICAL DETAILS UNLESS THOSE LOCATIONS ARE SPECIFICALLY DETAILED OTHERWISE.			2.8.7. SITE CLASS C (REFER TO GEOTECHNICAL REPORT)			S:\CM\2024 Projects\E24140 ASC Evaporator Project\Drawings\Struct\E24140 GENERAL NOTES 2025.04.10.dwg (S0.01)\Plotted on: Jun, 20, 2025- 10:50AM by David Vile				
1.30. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.			2.8.8. SEISMIC DESIGN CATEGORY B							
1.31. ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO THE CONTRACTOR. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.			2.8.9. BASIC SEISMIC-FORCE RESISTING SYSTEM: STEEL ORDINARY CONCENTRICALLY BRACED FRAMES AND ORDINARY REINFORCED MASONRY SHEAR WALLS							
1.32. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.			2.8.10. SEISMIC RESPONSE COEFFICIENTCS =0.044							
1.33. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.			2.8.11. SEISMIC MODIFICATION FACTORR = 3.0							
1.34. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.			2.8.12. SEISMIC BASE SHEARV=278.6 KIPS							
1.35. ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO THE CONTRACTOR. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.			2.9. UNLESS NOTED OTHERWISE CALCULATED INDIVIDUAL MEMBER DEFLECTIONS (IN INCHES) DO NOT EXCEED THE FOLLOWING:							
1.36. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE STRUCTURAL ENGINEER. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.			LIVE LOAD SNOW/WIND LOAD DEAD + LIVE LOAD							
1.37. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THE TYPICAL DETAILS UNLESS THOSE LOCATIONS ARE SPECIFICALLY DETAILED OTHERWISE.			ROOF MEMBERS: L/240 L/240 L/180							
1.38. SCALING OF DRAWINGS SHALL NOT BE USED TO OBTAIN OR VERIFY ANY DIMENSION SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE ENGINEER FOR ANY DIMENSION NOT PROVIDED ON THE DRAWINGS.			FLOOR MEMBERS: L/360 L/240							
1.39. CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. OWNER/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.			WHERE, L = SPAN LENGTH (IN INCHES) BETWEEN SUPPORTS. (FOR CANTILEVERS, L IS TWICE THE LENGTH OF THE CANTILEVER.) NOTE THAT THE TOTAL MAXIMUM CALCULATED FLOOR SYSTEM DEFLECTION WILL BE THE SUM OF THE DEFLECTIONS OF THE SUPPORTED ELEMENTS IN A BAY.							
1.40. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.			THE CALCULATED DEFLECTION FOR INDIVIDUAL MEMBERS SUPPORTING MASONRY DO NOT EXCEED L/600 FOR DESIGN LOADS APPLIED AFTER THE INSTALLATION OF THE MASONRY.							
1.41. ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO THE CONTRACTOR. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.			2.10. SPECIAL INSPECTIONS:							
1.42. CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. OWNER/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.			2.10.1. THE STRUCTURAL TESTING/INSPECTION AGENCY WILL PERFORM SPECIAL INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE.							
1.43. CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. OWNER/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.			2.10.2. SPECIAL INSPECTION AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE ARE REQUIRED FOR STRUCTURAL COMPONENTS AND ASSEMBLIES WHICH ARE NOT FABRICATED AT THE CONSTRUCTION JOB SITE INCLUDING BUT NOT LIMITED TO FLOOR AND ROOF TRUSSES AND JOISTS OF WOOD AND							
1.44. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.										
1.45. ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO THE CONTRACTOR. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.										
1.46. CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. OWNER/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.										
1.47. CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. OWNER/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.										
1.48. CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. OWNER/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.										

									PRELIMINARY NOT FOR CONSTRUCTION 20 JUNE 2025			 4990 Royal Gulf Ct Fort Myers, FL 33966 Ph: 239.768.1778, Fax: 239.210.2168 www.veiglobal.com			Title: AMALGAMATED SUGAR COMPANY EVAPORATOR PROJECT GENERAL NOTES AND STRUCTURAL SPECIFICATIONS			 AMALGAMATED SUGAR COMPANY 2320 ORCHARD DRIVE EAST TWIN FALLS, ID 83301			Date: 2025.04.10 Chkd By: S. WILSON Dsgn By: D. VIELE			Dwg Size: 24X36		
C 2025.06.20 DV OWNER COMMENTS			B 2025.04.25 SW ISSUED FOR BID			A 2025.04.11 SW ISSUED FOR APPROVAL (70% CHECKSET)			No. Date By			Revision			Ad. No.			Project: E24140			Revision: C					

GENERAL NOTES AND STRUCTURAL SPECIFICATIONS

- 4.8. COMPRESSION SPICERS SHALL BE THE MECHANICAL TYPE SUCH THAT THE COMPRESSION STRESS IS TRANSMITTED BY THE END BEARING HELD IN CONCENTRIC CONTACT.
- 4.9. PROVIDE DOWELS FROM FOUNDATIONS THE SAME SIZE AND NUMBER AS THE VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE.
- 4.10. PLACE, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT IN ACCORDANCE WITH ACI 318 AND RSI STANDARDS. DO NOT DEVIATE FROM ALIGNMENT OR MEASUREMENT.
- 4.11. BEND BARS COLD. DO NOT HEAT BARS. NO FIELD BENDING OF BARS PARTIALLY EMBEDDED IN CONCRETE IS PERMITTED, UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER AND CHECKED BY THE TESTING/INSPECTION AGENCY FOR CRACKS.
- 4.12. PROVIDE MINIMUM CONCRETE COVER FOR REINFORCEMENTS AS FOLLOWS, UNLESS NOTED OTHERWISE:
- | | | |
|---------|---|--------------|
| 4.12.1. | CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: | 3" CLEAR |
| 4.12.2. | EXPOSED TO EARTH AND WEATHER: | |
| | #6 AND LARGER: | 2" CLEAR |
| | #5 AND SMALLER: | 1-1/2" CLEAR |
| 4.12.3. | NOT EXPOSED TO EARTH OR WEATHER: | |
| | SLABS, WALLS, JOISTS: | |
| | #14 AND LARGER: | 1-1/2" CLEAR |
| | #11 AND SMALLER: | 3/4" CLEAR |
| | BEAMS, COLUMNS: | |
| | PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS: | 1-1/2" CLEAR |
| 4.12.4. | MASONRY REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE WALL UNLESS NOTED OTHERWISE. | |
- 4.1. FURNISH AND INSTALL DOWELS OR MECHANICAL SPLICES AT INTERSECTIONS OF WALLS, COLUMN, AND PIERS TO PERMIT CONTINUOUS REINFORCEMENT OR DEVELOPMENT LENGTHS AT SUCH INTERSECTIONS.
- 4.2. ALL DOWELS AND TERMINATING BARS SHALL HAVE A STANDARD 90 DEGREE HOOK, UNLESS NOTED OTHERWISE.
- 4.3. ADHESIVE FOR DOWELS IN EXISTING CONCRETE SHALL BE HIT HY200 INJECTION ADHESIVE SUPPLIED BY HILTI FASTENING SYSTEMS, OR APPROVED EQUAL.
- 4.4. MINIMUM EMBEDMENT LENGTH FOR DOWELS IN EXISTING CONCRETE SHALL BE 12 BAR DIAMETERS, UNLESS NOTED OTHERWISE.
- 4.5. DO NOT SPLICE REINFORCEMENT EXCEPT AS INDICATED ON STRUCTURAL DRAWINGS.
- 4.6. ALL HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH CONTRACTION AND/OR CONSTRUCTION JOINTS AND AROUND CORNERS UNLESS NOTED OTHERWISE.

5. CAST-IN-PLACE CONCRETE NOTES

- 5.1. CONCRETE CONSTRUCTION SHALL CONFORM TO THE FOLLOWING AMERICAN CONCRETE INSTITUTE (ACI) CODES AND SPECIFICATIONS, LATEST EDITION.
 - 5.1.1. ACI 301: "SPECIFICATIONS FOR STRUCTURAL CONCRETE"
 - 5.1.2. ACI 315: "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"
 - 5.1.3. ACI 318: "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
- 5.2. THE READY-MIX CONCRETE PLANT SHALL BE CERTIFIED FOR CONFORMANCE WITH THE REQUIREMENTS OF THE NATIONAL READY-MIX CONCRETE ASSOCIATION.
- 5.3. THE STRUCTURAL TESTING/INSPECTION AGENCY SHALL PROVIDE SPECIAL INSPECTION AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE.
- 5.4. ESTABLISH CONCRETE MIX DESIGN IN ACCORDANCE WITH ACI 318, CHAPTER 5
- 5.5. SUBMIT CONCRETE MIX DESIGNS. INCLUDE THE FOLLOWING
 - 5.5.1. TYPE AND QUANTITIES OF MATERIALS.
 - 5.5.2. SLUMP
 - 5.5.3. AIR CONTENT
 - 5.5.4. FRESH UNIT WEIGHT
 - 5.5.5. AGGREGATES SIEVE ANALYSIS
 - 5.5.6. DESIGN COMPRESSIVE STRENGTH
 - 5.5.7. LOCATION OF PLACEMENT IN STRUCTURE
 - 5.5.8. METHOD OF PLACEMENT
 - 5.5.9. METHOD OF CURING
 - 5.5.10. 7-DAY AND 28-DAY COMPRESSIVE STRENGTHS.

- 5.6. CONCRETE SUPPLIER SHALL SUBMIT CERTIFICATIONS THAT THE MATERIALS USED MEET APPLICABLE ASTM SPECIFICATIONS. MIX DESIGNS NOT CONFORMING TO THE ABOVE WILL BE REJECTED.
- 5.7. CONCRETE SHALL HAVE MINIMUM SPECIFIED 28-DAY COMPRESSIVE STRENGTH, F' OF 4000 PSI, UNLESS NOTED OTHERWISE.
- 5.8. DESIGN CONCRETE WITH A MAXIMUM SLUMP OF FIVE INCHES. IF A SLUMP OF GREATER THAN FIVE INCHES IS DESIRED, IT SHALL BE ACHIEVED WITH A HIGH-RANGE WATER REDUCER. DESIGN THE CONCRETE MIX WITH A HIGH RANGE WATER REDUCER SLUMP OF 2 1/2 INCHES +/- 1 INCH. THE MAXIMUM SLUMP AFTER HIGH-RANGE WATER REDUCERS ARE ADDED SHALL BE EIGHT INCHES.
- 5.9. NORMAL WEIGHT CONCRETE SHALL HAVE A FRESH UNIT WEIGHT OF 140 TO 152 PCF.
- 5.10. NO ENTRAINED AIR IS REQUIRED IN CONCRETE PLACED IN THE FOUNDATION.
- 5.11. EXTERIOR NORMAL WEIGHT CONCRETE, ENTRAINED AIR CONTENT SHALL BE 6.0 PERCENT
- 5.12. CONCRETE ELEMENTS SHALL HAVE A MAXIMUM WATER CEMENT RATIO OF 0.50, UNLESS NOTED OTHERWISE.
- 5.13. PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE 1, UNLESS NOTED OTHERWISE.
- 5.14. FINE AND COARSE AGGREGATE OF GRAVEL OR CRUSHED STONE SHALL CONFORM TO ASTM C33. SIZE COARSE AGGREGATE IN ACCORDANCE WITH ACI 318. COARSE AGGREGATE SIZE SHALL BE NO GREATER THAN 3/4"
- 5.15. WATER SHALL BE POTABLE AND FREE OF DELETERIOUS MATERIALS IN ACCORDANCE WITH ACI 318.
- 5.16. AIR ENTRAINING AGENT SHALL CONFORM TO ASTM C260.
- 5.17. WATER REDUCING AGENT SHALL CONFORM TO ASTM C494.
- 5.18. HIGH-RANGE WATER REDUCERS (SUPERPLASTICIZERS) SHALL CONFORM TO ASTM C494. HIGH-RANGE WATER REDUCERS ARE TO BE ADDED AT DOSAGE RECOMMENDED BY THE MANUFACTURER. THE SLUMP OF THE CONCRETE SHALL BE ONE TO FOUR INCHES AT THE TIME THAT THE HIGH-RANGE WATER REDUCERS ARE ADDED. DO NOT PERMIT FRESH CONCRETE CONTAINING SUPERPLASTICIZERS TO COME IN CONTACT WITH FRESH CONCRETE NOT CONTAINING SUPERPLASTICIZERS.
- 5.19. USE NO CHLORIDES OF ANY FORM IN CONCRETE.
- 5.20. AN ACRYLIC CURING COMPOUND MEETING THE REQUIREMENTS OF ASTM C1315 AND ALL LOCAL, STATE, AND FEDERAL VOLATILE ORGANIC CARBON REGULATIONS MAY BE USED AT THE CONTRACTOR'S OPTION.
- 5.21. FLY ASH SHALL BE CLASS F FLY ASH WITH A LOSS ON IGNITION OF LESS THAN FIVE PERCENT OR CLASS C FLY ASH WITH A LOSS ON IGNITION OF LESS THAN ONE PERCENT IN ACCORDANCE WITH ASTM C618.
- 5.22. NON-CHLORIDE ACCELERATORS AND RETARDERS SHALL CONFORM TO ASTM C494.
- 5.23. WATER MAY BE ADDED TO THE BATCH ONLY IF NEITHER THE MAXIMUM PERMISSIBLE WATER/CEMENT RATIO NOR THE MAXIMUM SLUMP IS EXCEEDED
- 5.24. PLACEMENT OF CONCRETE
- 5.24.1. DEPOSIT CONCRETE AS NEAR AS PRACTICAL TO FINAL POSITION TO PREVENT SEGREGATION OF CONCRETE
- 5.24.2. NO FLOWING OF CONCRETE WITH VIBRATORS.
- 5.24.3. PLACE FLOORS AND SLABS IN ACCORDANCE WITH ACI 302.
- 5.24.4. DO NOT USE ALUMINUM EQUIPMENT IN PLACING AND FINISHING CONCRETE.
- 5.24.5. PLACE THICKENED SLABS FOR PARTITIONS INTEGRAL WITH FLOOR SLABS.
- 5.24.6. DEPOSIT CONCRETE WITHIN 90 MINUTES AFTER BATCHING.
- 5.24.7. CONSOLIDATE CONCRETE IN ACCORDANCE WITH ACI 301 TO ACI 309.
- 5.25. OUTSIDE DIAMETER FOR PIPES OR CONDUITS CAST WITHIN A FORMED SLAB OR WALL SHALL NOT EXCEED ONE-QUARTER THE SLAB OR WALL THICKNESS INCLUDING CROSSINGS, SHALL BE LOCATED WITH AT LEAST 3 CONDUIT DIAMETERS CLEAR BETWEEN THEM, AND SHALL BE NO CLOSER THAN 10 TIMES THE SLAB THICKNESS FROM ANY COLUMN UNLESS SPECIFICALLY DETAILED AND SHOWN IN THE STRUCTURAL DOCUMENTS. ALL PIPES AND CONDUITS SHALL BE PLACED IN THE MIDDLE THIRD OF THE SLAB OR WALL THICKNESS UNLESS SPECIFICALLY DETAILED OTHERWISE IN THE STRUCTURAL DOCUMENTS. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC.
- 5.26. UNLESS SPECIFICALLY DETAILED AND SHOWN ON THE STRUCTURAL DOCUMENTS PENETRATIONS OR OPENINGS IN SLABS OR WALLS SHALL:
- 5.26.1. NOT EXCEED 10 INCHES IN ANY DIMENSION
- 5.26.2. NOT BE LOCATED WITHIN 6 INCHES FROM ANY EDGE OF SLAB OR WALL
- 5.26.3. NOT BE LOCATED WITHIN A BEAM OR COLUMN CROSS SECTION
- 5.26.4. NOT BE CLOSER THAN 10 TIMES THE SLAB THICKNESS FROM A CONCENTRATED LOAD GREATER THAN 2000 LBS OR COLUMN.
- 5.26.5. WHEN PLACED IN GROUPS SHALL BE PLACED WITH NO LESS THAN ONE PENETRATION OR OPENING DIAMETER CLEAR BETWEEN THEM.
- 5.27. CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
- 5.28. ALL DEFECTIVE AREAS IN CONCRETE INCLUDING, BUT NOT LIMITED TO, HONEY-COMBING, SPALLS, AND CRACKS

- WITH WIDTHS EXCEEDING 0.016 INCH SHALL BE REPAIRED UNLESS DIRECTED OTHERWISE BY THE STRUCTURAL ENGINEER.
- 5.29. CONCRETE SLABS ON GRADE SHALL NOT BE LOADED UNTIL A MINIMUM OF 60% OF THE DESIGN CONCRETE STRENGTH HAS BEEN ATTAINED AND THE CONCRETE IS AT LEAST THREE DAYS OLD. ALL OTHER CONCRETE MEMBERS SHALL NOT BE LOADED UNTIL THE SPECIFIED CONCRETE DESIGN STRENGTH HAS BEEN ATTAINED.
- 5.30. CONCRETE SHALL BE TESTED IN ACCORDANCE WITH ACI 301 AND THE SPECIFICATIONS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. AT A MINIMUM CONCRETE SPECIMENS SHALL BE TAKEN FOR EVERY 75 YARDS OR PORTION THEREOF FOR EACH MIX DESIGN PLACED IN A DAY. CONCRETE TEST REPORTS SHALL BE AVAILABLE ON SITE FOR INSPECTION.
- 5.31. CONTRACTION JOINTS
- 5.31.1. UNLESS NOTED OTHERWISE, CONTRACTION JOINTS SHALL BE SPACED NO FARTHER APART THAN 15 FT OC IN EACH DIRECTION CREATING PANELS WITH AN ASPECT RATIO NOT GREATER THAN 1.5:1.
- 5.31.2. OBTAIN STRUCTURAL ENGINEER'S APPROVAL FOR LOCATION OF CONTRACTION JOINTS.
- 5.31.3. DO NOT PLACE CONTRACTION JOINTS IN FRAMED FLOORS, COMPOSITE SLABS, OR SHEAR WALLS.
- 5.31.4. SAW-CUT CONTRACTION JOINTS SHALL BE INSTALLED WITHIN 12 HOURS OF SLAB PLACEMENT.
- 5.32. "CJ" ON THE FOUNDATION PLAN INDICATES A KEY-FORMED CONSTRUCTION JOINT OR SAW-CUT CONTRACTION JOINT IN THE CONCRETE SLAB ON GRADE.
- 5.33. PROVIDE 3/4 INCH CHAMFER AT ALL CORNERS.
- 5.34. CONCRETE SHALL RECEIVE THE FOLLOWING FINISHES, UNLESS NOTED OTHERWISE:
- 5.34.1. FORMED SURFACES SHALL RECEIVE A SMOOTH-FORM FINISH IN ACCORDANCE WITH ACI 301.
- 5.34.2. OFFSET BETWEEN ADJACENT PIECES OF FORMWORK FACING MATERIAL SHALL NOT EXCEED "CLASS A" TOLERANCE REQUIREMENTS OF ACI 117 (1/8" MAXIMUM OFFSET).
- 5.34.3. INTERIOR SLABS SHALL RECEIVE A STEEL TROWELED FINISH IN ACCORDANCE WITH ACI 301.
- 5.34.4. EXTERIOR SLABS AND WHERE A NONSLIP FINISH IS REQUIRED, PROVIDE A BROOM FINISH IN THE DIRECTION OF SLOPE. SLABS SHALL DRAIN FREELY WITH A MAXIMUM VARIATION FROM THE INDICATED PLANE OF 1/8" IN 10'-0".
- 5.35. CONCRETE CURING PROCEDURES SHALL BEGIN IMMEDIATELY FOLLOWING THE COMMENCEMENT OF THE FINISHING OPERATION.
- 5.36. PERFORM COLD WEATHER CONCRETING IN ACCORDANCE WITH ACI 306.
- 5.37. PERFORM HOT WEATHER CONCRETING IN ACCORDANCE WITH ACI 305.
- 5.38. PROTECT CONCRETE FROM DRYING FROM EXCESSIVE TEMPERATURES AND WIND FOR THE FIRST SEVEN DAYS.
- 5.39. MAINTAIN CONCRETE AFTER PLACEMENT WITH MINIMAL MOISTURE LOSS AT RELATIVELY CONSTANT TEMPERATURE FOR THE PERIOD NECESSARY FOR HYDRATION OF CEMENT AND HARDENING OF CONCRETE (NOT LESS THAN 7 DAYS). COMPLY WITH THE REQUIREMENTS OF ACI 308: "STANDARD PRACTICE FOR CURING CONCRETE"; AMERICAN CONCRETE INSTITUTE. A COMBINATION CURING AND SEALING COMPOUND SHALL BE APPLIED AFTER THE CONCRETE HAS BEEN FINISHED OR THE FORMS REMOVED. COMPOUND SHALL MEET THE REQUIREMENTS OF ASTM C1315.
- 5.40. OBTAIN STRUCTURAL ENGINEER'S WRITTEN APPROVAL PRIOR TO CUTTING CONCRETE FOR INSTALLATION OF OTHER WORK.
- 5.41. NOTIFY STRUCTURAL ENGINEER OF ANY DEFECTIVE AREAS IN CONCRETE TO BE PATCHED OR REPAIRED. REPAIR AND PATCH DEFECTIVE AREAS WITH NON-SHRINK GROUT. CUT OUT DEFECTIVE AREAS OVER TWO INCHES IN DIAMETER TO SOLID CONCRETE, BUT NOT LESS THAN A DEPTH OF ONE INCH. MAKE EDGES OF CUTS PERPENDICULAR TO THE CONCRETE SURFACE.

6. CONCRETE MASONRY NOTES

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| 6.1. | CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO THE FOLLOWING AMERICAN CONCRETE INSTITUTE (ACI) CODES AND SPECIFICATIONS, LATEST EDITION. | |
| 6.1.1. | ACI 530: "BUILDING CODE REQUIREMENTS FOR MASONRY CONSTRUCTION" | |
| 6.1.2. | ACI 530.1: "SPECIFICATIONS FOR MASONRY STRUCTURES" | |
| 6.2. | CONCRETE MASONRY UNITS SHALL CONFORM TO GRADE 'N', MOISTURE CONTROLLED TYPE I REQUIREMENTS OF ASTM C90. MINIMUM 28-DAY COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS SHALL BE $f_m = 1500$ PSI. | |
| 6.3. | MORTAR SHALL COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY AND SHALL BE OF THE FOLLOWING TYPE: | |
| 6.3.1. | WALLS BELOW GRADE: | TYPE M |
| 6.3.2. | BEARING WALLS: | TYPE M OR S |
| 6.4. | CONCRETE MASONRY UNITS SHALL BE GROUTED WITH 2,500 PSI COARSE GROUT AS SHOWN IN THE STRUCTURAL DOCUMENTS. GROUT FOR REINFORCED AND NONREINFORCED MASONRY SHALL CONFORM TO ASTM C476. | |
| 6.5. | PROVIDE CONTINUOUS HORIZONTAL JOINT REINFORCEMENT WITH NO. 9 GAGE GALVANIZED TRUSS TYPE | |

- MASONRY REINFORCING AT 16" C/C VERTICALLY, UNLESS NOTED OTHERWISE. PROVIDE SPECIAL ACCESSORIES FOR CORNERS, INTERSECTIONS, ETC.
- 6.6. WHERE CELLS ARE TO BE FILLED WITH GROUT, PROVIDE ADDITIONAL FULL MORTAR BED ALONG CROSS WEBS ENCLOSED GROUTED CELLS.
- 6.7. BLOCK COURSING SHOWN ON STRUCTURAL PLANS MAY NOT BE REPRESENTATIVE OF ACTUAL COURSING.
- 6.8. FIRST COURSE OF CONCRETE MASONRY UNITS SHALL BE PLACED ON A FULL BED OF MORTAR.
- 6.9. CAST DOWELS WITH ACI STANDARD HOOKS, IN FOUNDATIONS FOR WALLS ABOVE. DOWELS SHALL BE THE SAME SIZE AND SPACING OF VERTICAL REINFORCEMENT, UNLESS NOTED OTHERWISE.
- 6.10. PROVIDE CONTROL JOINTS IN ALL CONCRETE MASONRY WALLS AT LOCATIONS APPROVED BY THE ENGINEER AT A MAXIMUM SPACING OF 3 TIMES THE WALL HEIGHT OR 40'-0", WHICHEVER IS LESS.
- 6.11. SUBMIT WRITTEN CONSTRUCTION PROCEDURES PRIOR TO THE START OF MASONRY CONSTRUCTION.

7. STRUCTURAL STEEL NOTES

- 7.1. STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO THE FOLLOWING AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) CODES AND SPECIFICATIONS, LATEST EDITIONS.
 - 7.1.1. AISC FIFTEENTH EDITION: "STEEL CONSTRUCTION MANUAL"
 - 7.2. STEEL FABRICATOR SHALL MEET THE QUALIFICATIONS STATED IN THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, COMM. N6: APPROVED FABRICATORS AND ERECTORS
 - 7.3. ERECTORS SHALL BE EXPERIENCED IN ERECTING STRUCTURAL SYSTEMS SIMILAR IN COMPLEXITY OF THIS PROJECT AS EVIDENCED BY 10 COMPLETED PROJECTS.
 - 7.4. ERECTOR SHALL HAVE A MINIMUM OF 5 YEARS OF EXPERIENCE IN THE ERECTION OF STRUCTURAL STEEL OR MEET THE QUALIFICATIONS STATED PREVIOUSLY THAT ARE REFERENCED TO THE AISC SPECIFICATIONS.
 - 7.5. THE STRUCTURAL TESTING/INSPECTION AGENCY SHALL PROVIDE SPECIAL INSPECTION AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE
 - 7.6. NOTIFY STRUCTURAL ENGINEER AND STRUCTURAL TESTING/INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO STRUCTURAL STEEL FABRICATION AND ERECTION.
 - 7.7. STORE MATERIALS OFF OF THE GROUND TO PERMIT EASY ACCESS FOR INSPECTION AND IDENTIFICATION. STORE STEEL MEMBERS AND PACKAGED ITEMS IN A MANNER THAT PROVIDES PROTECTION AGAINST CONTACT WITH DELETERIOUS MATERIALS.
 - 7.8. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS, UNLESS NOTED OTHERWISE:

ASTM A992	FY = 50 KSI	W-SHAPES, WT-SHAPES
ASTM A36	FY = 36 KSI	M AND S SHAPES, CHANNELS, ANGLES, PLATES, AND BARS.
ASTM A53 GRADE	FY = 35 KSI	PIPE
ASTM A500 GRADE C	FY = 46 KSI	ROUND HSS
ASTM A500 GRADE C	FY = 50 KSI	RECTANGULAR HSS
 - 7.9. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST RECOMMENDATIONS OF:
 - 7.9.1. AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION
 - 7.9.2. AWS AMERICAN WELDING SOCIETY
 - 7.10. USE ELECTRODES CONFORMING TO AWS D1.1, E70XX, UNLESS OTHERWISE NOTED. PROPERLY STORE ELECTRODES TO MAINTAIN FLUX QUALITY.
 - 7.11. DO NOT ERECT STEEL WHERE ANCHOR BOLTS WILL NOT HAVE FULL THREADS.
 - 7.12. BOLTS AND ANCHORS:
 - 7.12.1. BOLTED CONNECTIONS SHALL BE TYPE N (THREADS INCLUDED IN SHEAR PLANE) WITH MINIMUM 3/4" DIAMETER A325 BOLTS. BOLTS SHALL BE FULLY TENSIONED; SUBMIT PROPOSED BOLT TIGHTENING PROCEDURE FOR REVIEW.
 - 7.12.2. NON-HIGH-STRENGTH BOLTS SHALL CONFORM TO ASTM A307, GRADE A, WHERE NOTED ON THE DRAWINGS
 - 7.12.3. HARDENED STEEL WASHERS SHALL CONFORM TO ASTM F436.
 - 7.12.4. HEADED STEEL STUDS SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1 AND HAVE A MINIMUM 3/4" DIAMETER AND BE PROVIDED WITH HEAT-RESISTANT CERAMIC ARC SHIELDS.
 - 7.12.5. SPLINE-TYPE TENSION CONTROL BOLTS, PLAIN HARDENED WASHERS, AND SUITABLE NUTS ARE AN ACCEPTABLE ALTERNATE DESIGN BOLT ASSEMBLY.
 - 7.12.6. COMPRESSIBLE-WASHER-TYPE DIRECT TENSION INDICATORS CONFORMING TO ASTM F959 ARE AN ACCEPTABLE ALTERNATE DESIGN BOLT ASSEMBLY.
 - 7.12.7. ENSURE FASTENERS ARE LUBRICATED PRIOR TO INSTALLATION.
 - 7.12.8. EXPANSION ANCHORS AS SHOWN ON CONTRACT DOCUMENTS SHALL BE HILTI KWIK BOLT 3 ANCHORS MANUFACTURED BY HILTI FASTENING SYSTEMS, OR APPROVED EQUAL. INSTALL IN ACCORDANCE

C	2025.06.20	DV	OWNER COMMENTS		
B	2025.04.25	SW	ISSUED FOR BID		
A	2025.04.11	SW	ISSUED FOR APPROVAL (70% CHECKSET)		
No.	Date	By	Revision		Ad. No.

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Title:

AMALGAMATED SUGAR COMPANY EVAPORATOR PROJECT GENERAL NOTES AND STRUCTURAL SPECIFICATIONS

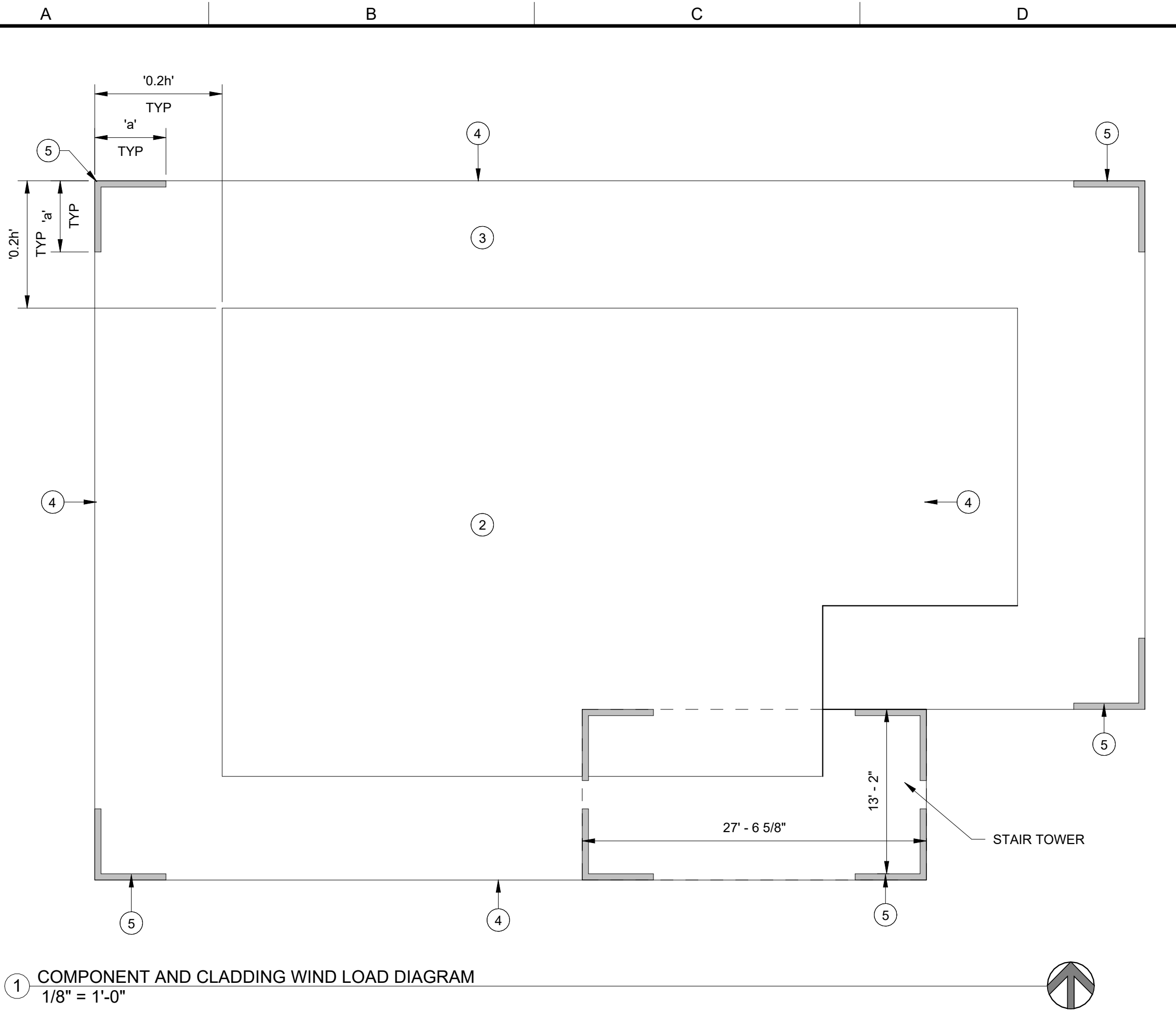


AMALGAMATED SUGAR COMPANY
2320 ORCHARD DRIVE EAST
TWIN FALLS, ID 83301

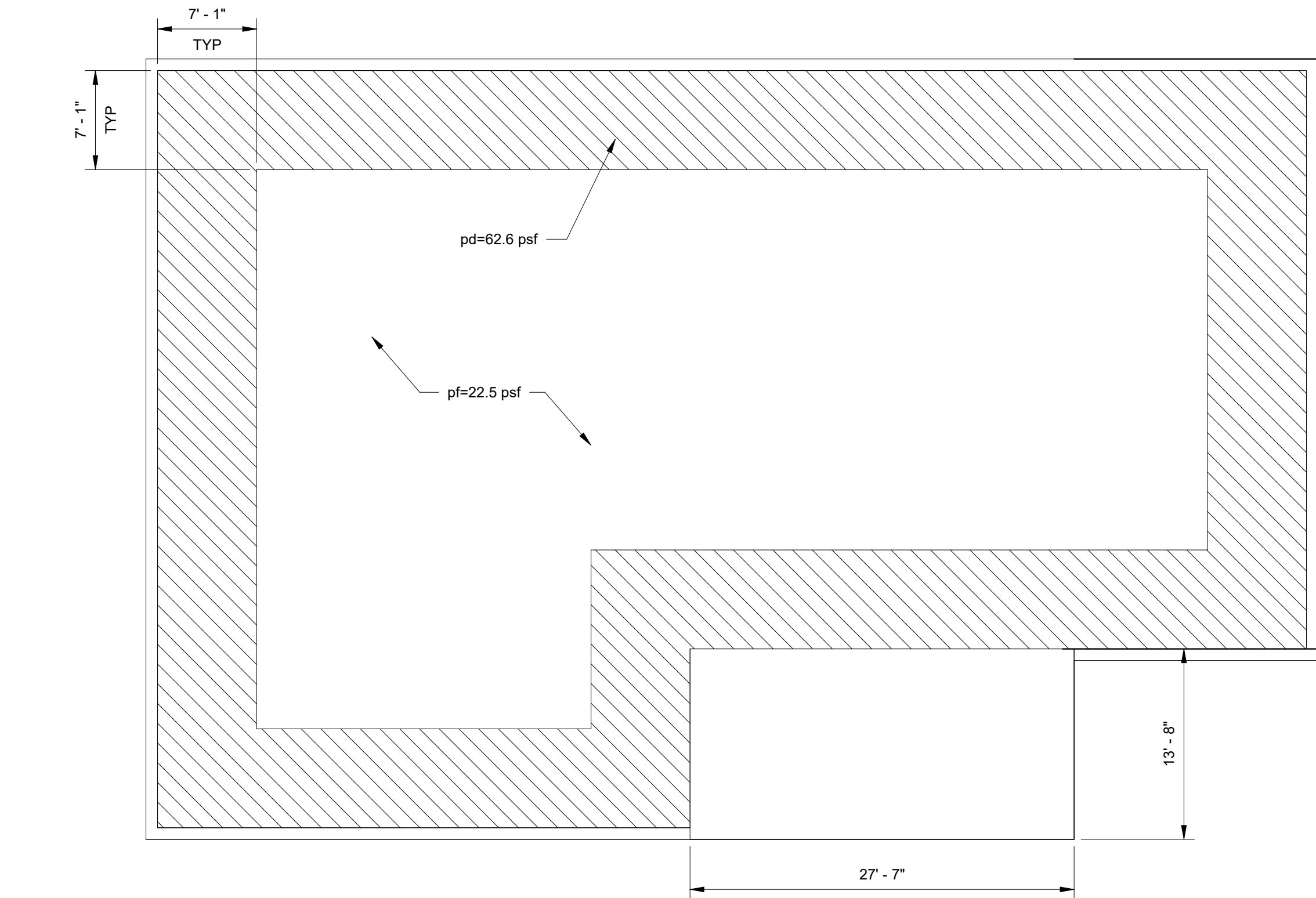
Date: 2025.04.10
Chkd By: S. WILSON
Done By: D. MIELE

Project:

Revision
C



1 COMPONENT AND CLADDING WIND LOAD DIAGRAM
1/8" = 1'-0"



2 COMPONENT AND CLADDING SNOW LOAD DIAGRAM
1/8" = 1'-0"

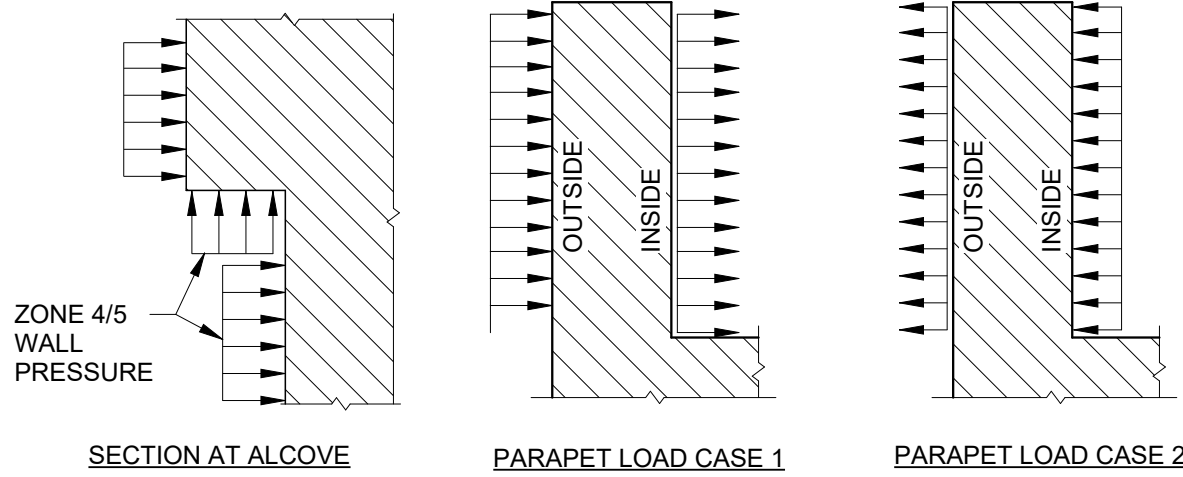
C&C WIND PRESSURE PLAN NOTES:

- PRESSURES SHOWN AS NOMINAL COMPONENTS AND CLADDING PRESSURES HAVE BEEN CONVERTED FROM ULTIMATE PRESSURES USING A 0.6 MULTIPLIER FACTOR. NO FURTHER REDUCTION IS ALLOWED.

A - INDICATES TRIBUTARY AREA IN S.F.
a - INDICATES END ZONE WIDTH IN FT.
h - MEAN ROOF HEIGHT IN FT.
Vult - INDICATES ULTIMATE DESIGN WIND SPEED IN MPH
Vasd - INDICATES NOMINAL DESIGN WIND SPEED IN MPH
- GROSS PRESSURES ARE FOR WINDOWS, DOORS, VENEER, LIGHT GAGE METAL FRAMING, METAL DECK ATTACHMENTS, ROOFING, ROOFING ACCESSORIES AND OTHER BUILDING COMPONENTS AND CLADDING.
- GROSS PRESSURES SHALL BE LINEARLY INTERPOLATED FOR (A) NOT SHOWN IN TABLE.
- POSITIVE PRESSURES INDICATE PRESSURES ACTING TOWARD A PROJECTED SURFACE. NEGATIVE PRESSURES INDICATE PRESSURES ACTING AWAY FROM A PROJECTED SURFACE.
- ROOF AND ZONES 1 THRU 3
- WALL ZONES 4 AND 5
- NET DESIGN ROOF PRESSURES SHALL BE CALCULATED USING THE SELFWEIGHT (DEAD LOAD) OF THE MATERIALS. HOWEVER, THE MAXIMUM REDUCTION OF WIND UPLIFT PRESSURES SHALL BE LIMITED TO THE SELF WEIGHT OF THE ROOF SYSTEM PLUS 5 PSF FOR SUPERIMPOSED DEAD LOADS.
- INTERNAL PRESSURE COEFFICIENT FOR ENCLOSED BUILDING EQUALS +0.18 AND -0.18.
- ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR A NOMINAL LATERAL PRESSURE OF XX PSF AND A SIMULTANEOUS NOMINAL UPLIFT PRESSURE OF 49 PSF (ROOF TOP EQUIPMENT PER FBC SECTION 1620.6 WITH Qh = 62 PSF)
- AT ALCOVES AND CANOPIES, THE TOTAL UPLIFT PRESSURE ON THE ALCOVE SOFFIT OR CANOPY SHALL EQUAL THE WALL PRESSURE IN THAT AREA.
- NOMINAL PARAPET DESIGN WIND PRESSURE LOAD CASES:
LOAD CASE 1: OUTSIDE FACE: +105 PSF (ZONE 4) AND +105 PSF (ZONE 5)
INSIDE FACE: +105 PSF (ZONE 2) AND +105 PSF (ZONE 3)
LOAD CASE 2: OUTSIDE FACE: -62 PSF (ZONE 4) AND -71 PSF (ZONE 5)
INSIDE FACE: +105 PSF
NOTE THAT CASE 1 & CASE 2 WIND PRESSURES ARE APPLIED INDEPENDENTLY.

ULTIMATE C&C WIND PRESSURES (ASCE 7-16)									
BUILDING	a (FT)	h (FT)	Vult (MPH)	Vasd (MPH)	A (SF)	ROOF		WALL	
						ZONE (2) (PSF)	ZONE (3) (PSF)	ZONE (4) (PSF)	ZONE (5) (PSF)
MAIN	5'-8"	51'-0"	117	90	<10	+16 - 81	+16 - 81	+36 -39	+36 -47
					20	+16 - 76	+16 - 76	+34 -37	+34 -44
					50	+16 - 69	+16 - 69	+32 -35	+32 -40
					100+	+16 - 64	+16 - 64	+30 -33	+30 -37

FM GLOBAL ROOFING REQUIREMENTS		
MATERIAL	ZONE (2)	ZONE (3)
ROOF	1-120	1-120
FASCIA	1-60	1-60
COPING	1-75	1-60
GUTTER	1-75	1-60



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Title: AMALGAMATED SUGAR COMPANY EVAPORATOR PROJECT
COMPONENT AND CLADDING DIAGRAM AND TABLES
PROJECT SUBTITLE

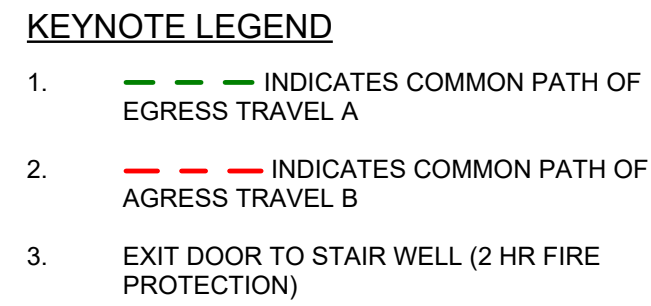


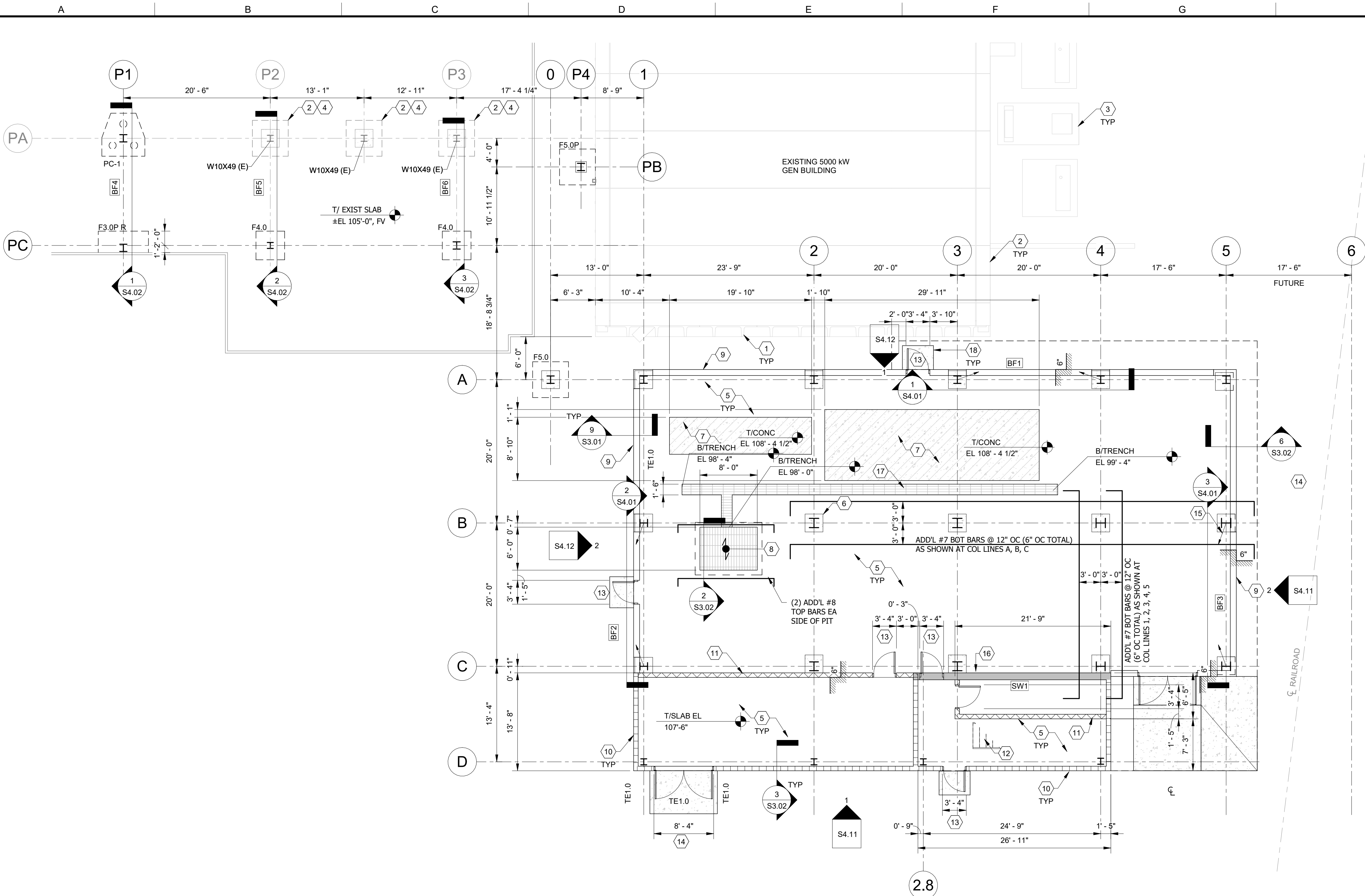
AMALGAMATED SUGAR COMPANY
2320 ORCHARD DRIVE EAST
TWIN FALLS, ID 83301

Date: 04/11/25
Chkd By: S. WILSON
Dsgn By: D. VIELE

Project: E24140
Dwg: S0.11

Dwg Size: 24X36
Revision: 1





1 FOUNDATION AND SLAB ON GRADE PLAN
1/8" = 1'-0"

KEYNOTE LEGEND

- EXISTING PRECAST DOUBLE TEE WALLS
- EXISTING CONC FOUNDATION
- EXISTING CONC EQUIPMENT PAD
- EXISTING CONC COLUMN/PIER
- 36" CONC MAT FOUNDATION W/ #8 TOP BARS @ 12" OC EA WAY, AND #7 BOTTOM BARS @ 12" OC EA WAY (2 LAYERS) ON WELL COMPACTED STRUCTURAL FILL. ADDITIONAL REINF REQD AS SHOWN.
- CONC PIER, SEE S1.02 FOR PIER AND BASE PLATE DESIGNATION
- 30" CONC EQUIP PAD, REINF W/ #6 @ 12" OC T&B AND (2) #4 SIDE BARS AT PERIMETER, SEE DET 5/S3.02
- CONC SUMP PIT W/ 2" X 3/16" W-19-4 GALV METAL BAR GRATING, T/GRG EL = 107'-0"
- GIRT-PANEL WALL SYSTEM W/ 3" INSULATED METAL WALL PANELS (METL.SPAN, LS-36 INSULATED ROOF AND WALL PANELS, FM APPROVAL STANDARD FM 4881) AND 8" WALL GIRTS ON CONT CONC CURB. SEE ELEVATIONS FOR SIZE AND SPACING
- 8" CMU BLOCK REINF W/ #5 VERT @ 24" OC IN GROUT FILLED CELLS AND #5 VERT AT ALL WALL CORNERS, TERMINATIONS, DOOR JAMBS, AND INTERSECTIONS. PROVIDE BOND BEAM (BB-1) AT EACH FLOOR. SEE SHEET S6.01 FOR CMU DETAILS AND SECTIONS.
- 8" CMU BLOCK PARTITION REINF W/ #5 VERT @ 48" OC IN GROUT FILLED CELLS AND #5 VERT AT ALL WALL CORNERS, TERMINATIONS, DOOR JAMBS, AND INTERSECTIONS. SEE SHEET S6.01 FOR CMU DETAILS AND SECTIONS.
- STEEL-METAL PAN STAIR ASSEMBLY. SEE STAIR DIAGRAMS AND DETAILS ON SHEETS S5.11 AND S5.12.
- DOOR 101, SEE DET 1/S7.03
- DOOR 102, SEE DET 1/S7.03
- STEEL WT VERTICAL BRACE UP, SEE FRAMING ELEVATIONS ON SHEET S4.01
- SW1 INDICATES 12" CMU SHEAR WALL REINF W/ #7 @ 8" OC AT ALL CORNERS, TERMINATIONS, DOOR JAMBS, AND INTERSECTIONS. PROVIDE TIE BEAM AT EACH FLOOR (TB-1). SEE SHEET S6.01 FOR CMU DETAILS AND SECTIONS.
- ±12" DEEP TRENCH DRAIN, SEE DET 4/S3.02
- 6" CONC DOOR LANDING W/ #4 @ 12" OC AT MID DEPTH OF SLAB

GENERAL NOTES

- REFER TO SHEET S0.01 THROUGH S0.04 FOR GENERAL NOTES AND STRUCTURAL SPECIFICATIONS
 - CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATE W/ EXISTING CONDITIONS. STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES.
 - ALL STRUCTURAL STEEL INCLUDING FRAMING MEMBERS, CONNECTION MEMBERS, HARDWARE, BASE PLATES, AND ANCHOR BOLTS TO BE HOT DIP GALVANIZED.
 - CONTRACTOR SHALL COORDINATE DIMENSIONS W/ MECHANICAL DRAWINGS AND EXISTING CONDITIONS. STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES.
 - FX-X INDICATES ISOLATED FOUNDATION DESIGNATION. SEE DET 8/S3.01
 - PC-X INDICATES PILE CAP. SEE DET 8/S3.03
 - REFER TO DET 10/S5.01 FOR BASE PLATE DETAILS.
 - REFER TO DET 10/S3.01 FOR PIER DETAILS
 - SEE SHEET S.102 FOR PIER, BASE PLATE, AND COLUMN DESIGNATION AND REQUIREMENTS.
- UNFACTORED COLUMN REACTIONS AT PILE CAP ARE AS FOLLOWS:

DEAD LOAD:	17.9 KIPS
LIVE LOAD:	27.8 KIPS
WIND LOAD VERT:	20.1 KIPS (ULT)
WIND LOAD LAT:	3.0 KIPS (ULT)

STRUCTURAL ELEVATIONS

- T/FDN EL 105' - 6"
- T/SLAB EL 107' - 0", UNO
- T/PIER EL = 109' - 0", UNO (SEE SHEET S1.02)

No.	Date	By	Revision	Ad. No.
C	2025.06.20	DV	OWNER COMMENTS	
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Title: AMALGAMATED SUGAR COMPANY EVAPORATOR PROJECT
FOUNDATION AND SLAB ON GRADE PLAN



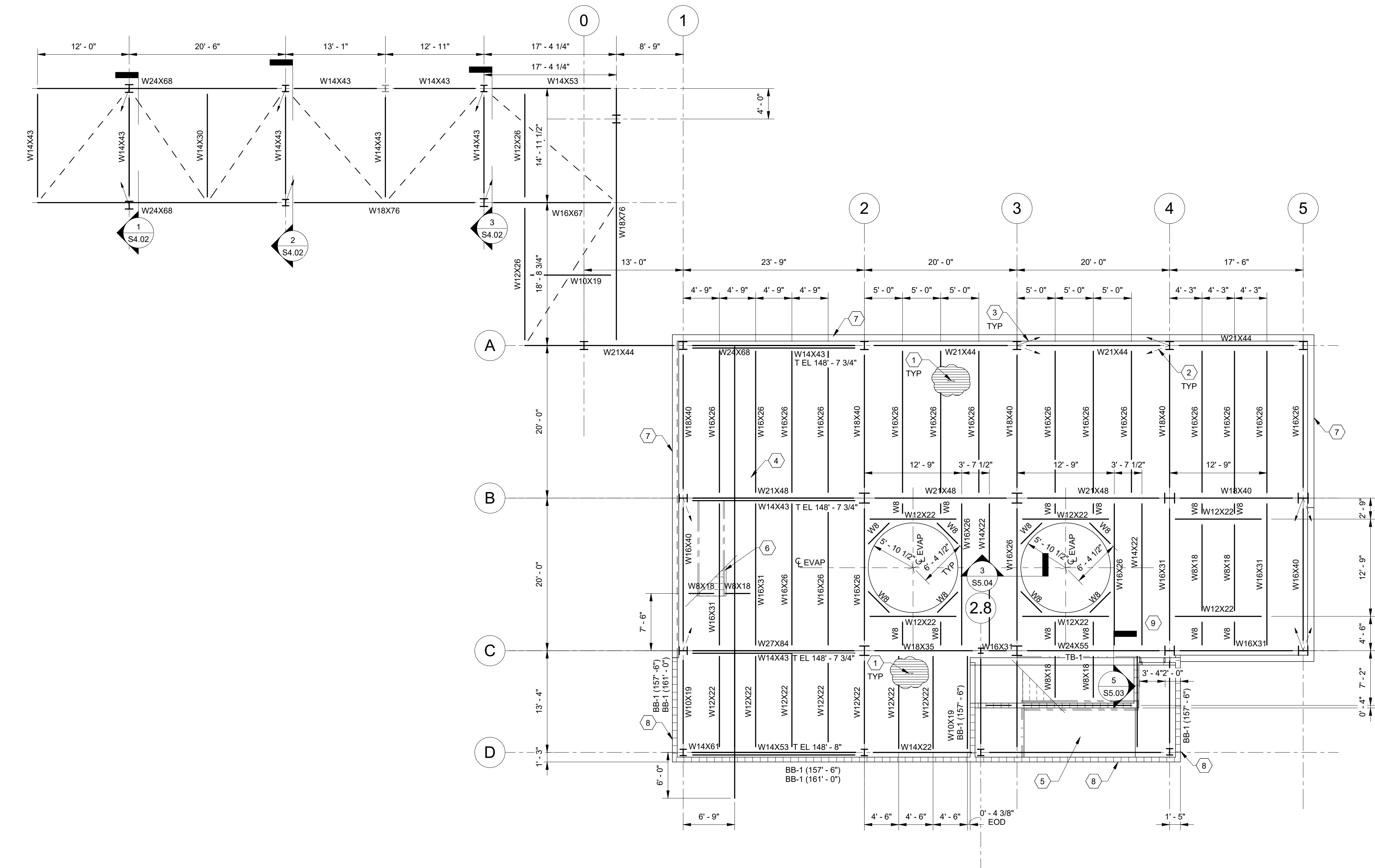
AMALGAMATED SUGAR COMPANY
2320 ORCHARD DRIVE EAST
TWIN FALLS, ID 83301

Date: 04/11/25
Chkd By: S. WILSON
Dsgn By: D. VIELE

Project: E24140
Dwg: S1.01

Dwg Size:
24X36

Revision:
C



KEYNOTE LEGEND

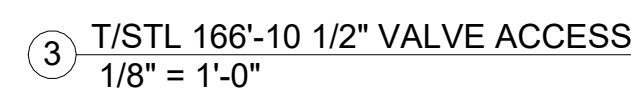
- 1 1/2", 20 GAGE, TYPE 'B' ROOF DECK, GALVANIZED G90. ROOFING ASSEMBLY TO CONSIST OF TPO MEMBRANE OVER 1/2" COVER BOARD OVER TAPERED 6" (MIN) INSULATION ON METAL DECK. SEE DET 8/S5.03 FOR FASTENING RQMTS.
- INDICATES STEEL WT VERTICAL BRACE DOWN
- INDICATES STEEL WT VERTICAL BRACE UP
- 7-TON CAPACITY 'TELESCOPING' MONORAIL BEAM BY DELEGATED DESIGN ENGINEER. B/HOOK EL = 143'-0", MIN.
- STEEL-METAL PAN STAIR ASSEMBLY. SEE STAIR DIAGRAMS AND DETAILS ON SHEETS S5.11 AND S5.12.
- METAL GRATED INDUSTRIAL TYPE STAIR ASSEMBLY. SEE STAIR DIAGRAMS AND DETAILS ON SHEETS S5.11 AND S5.12.
- PANEL WALL PARAPET, T/PARAPET EL = 161'-0"
- CMU PARAPET/ T/PARAPET EL = 161'-0"
- DOOR 101. SEE DET 1/S7.03
- 8" CMU BLOCK REINF W/ #5 VERT @ 32" OC IN GROUT FILLED CELLS AND #5 VERT AT ALL WALL CORNERS, TERMINATIONS, DOOR JAMBS, AND INTERSECTIONS. SEE SHEET S6.01 FOR CMU DETAILS AND SECTIONS.

GENERAL NOTES

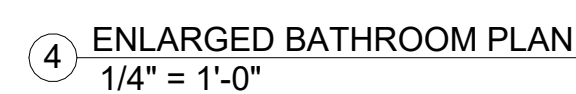
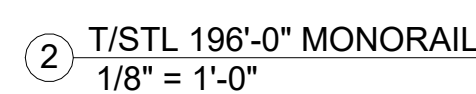
- REFER TO SHEET S0.01 THROUGH S0.04 FOR GENERAL NOTES AND STRUCTURAL SPECIFICATIONS
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATE W/ EXISTING CONDITIONS. STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES.
- ALL STRUCTURAL STEEL INCLUDING FRAMING MEMBERS, CONNECTION MEMBERS, HARDWARE, BASE PLATES, AND ANCHOR BOLTS TO BE HOT DIP GALVANIZED.
- CONTRACTOR SHALL COORDINATE DIMENSIONS W/ MECH DWGS AND EQUIP MNFR DWGS AND NOTIFY ENGINEER OF ANY DISCREPANCIES. STRUCTURAL FRAMING LAYOUT IS CRITICAL TO THE EQUIPMENT DIMENSIONS AND ELEVATIONS.
- COORDINATE EXACT LOCATIONS OF EQUIPMENT W/ MECH DWGS AND EQUIP MNFR DWGS AND NOTIFY ENGINEER OF ANY DISCREPANCIES. STRUCTURAL FRAMING LAYOUT IS CRITICAL TO THE EQUIPMENT DIMENSIONS AND ELEVATIONS.
- BB-X INDICATES BOND BEAM, SEE DET
- W8 INDICATES W8X18

1 STEEL FRAMING PLAN EL 157'-4"
1/8" = 1'-0"

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- ## KEYNOTE LEGEND
1. SPAN DIRECTION OF 1 1/2" X 3/16" W-19-4 GALV METAL BAR GRATING, SERRATED. SEE DET 1/S5.03
 2. INDICATES STEEL WT VERTICAL BRACE DOWN
 3. INDICATES STEEL W8X18 KNEE BRACE
 4. METAL GRATED INDUSTRIAL TYPE STAIR ASSEMBLY. SEE STAIR DIAGRAMS AND DETAILS ON SHEETS S5.11 AND S5.12.
 5. STEEL GUARD RAILING. SEE DET 2/S5.03
 6. 7 TON CAPACITY MONORAIL BEAM ON EVAPORATOR CENTERLINE
 7. STEEL LADDER DOWN. SEE DET 3/S5.03
 8. L4X4X3/8 HORIZONTAL BRACING (T/STL EL (-3')). SEE DET S5.02



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20 JUNE 2025**

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Title: AMALGAMATED SUGAR COMPANY EVAPORATOR PROJECT
STRUCTURAL STEEL FRAMING PLANS



AMALGAMATED SUGAR COMPANY
2320 ORCHARD DRIVE EAST
TWIN FALLS, ID 83301

Date: 04/11/25
Chkd By: S. WILSON
Dsgn By: D. VIELE

Project:
Dwg:

Dwg Size	24X36
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0	Revision
3	



1. REFER TO SHEET \$0.01 THROUGH \$0.04 FOR GENERAL NOTES AND STRUCTURAL SPECIFICATIONS.
2. ALL ROOF SLOPES AS SHOWN ARE TO BE REVIEWED AND APPROVED BY THE ROOFING SUPPLIER.
3. CRICKETS ARE TO BE PROVIDED WITH SUFFICIENT DEPTH AND SLOPE TO ACCOMMODATE PROPER DRAINAGE ON ROOF AT ALL EQUIPMENT AND PENETRATIONS.
4. COORDINATE ALL ROOF PENETRATIONS WITH MECHANICAL DRAWINGS.
5. ALL STORM DRAWINGS, INCLUDING CLEANOUTS AND EXTERIOR SPORTS TO BE LOCATED AWAY FROM SIDEWALK/WALKWAYS
6. SEE STRUCTURAL PLAN SHEETS FOR WALL AND DECK DIMENSIONS
7. SEE SHEET \$7.01 FOR ROOFING DETAILS.

1. TPO MEMBRANE OVER 1/2" COVER BOARD OVER 3" MIN RIGID INSULATION ON STRUCTURAL METAL DECK. SEE S2.02 FOR STRUCTURAL DECK REQUIREMENTS. ROOF TO COMPLY WITH FM GLOBAL ASSEMBLY NO. 309406-0-194470.
2. ROOF AND OVERFLOW DRAINS. SEE MECH DRAWINGS AND DETAIL 2/S7.01
3. CURB TO BE PROVIDED AT EVAPORATOR CUT OUTS. SEE DETAIL 5/S7.01

[illegible]

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20 JUNE 2025**

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Title: AMALGAMATED SUGAR COMPANY EVAPORATOR PROJECT
ROOFING AND DRAINAGE PLAN

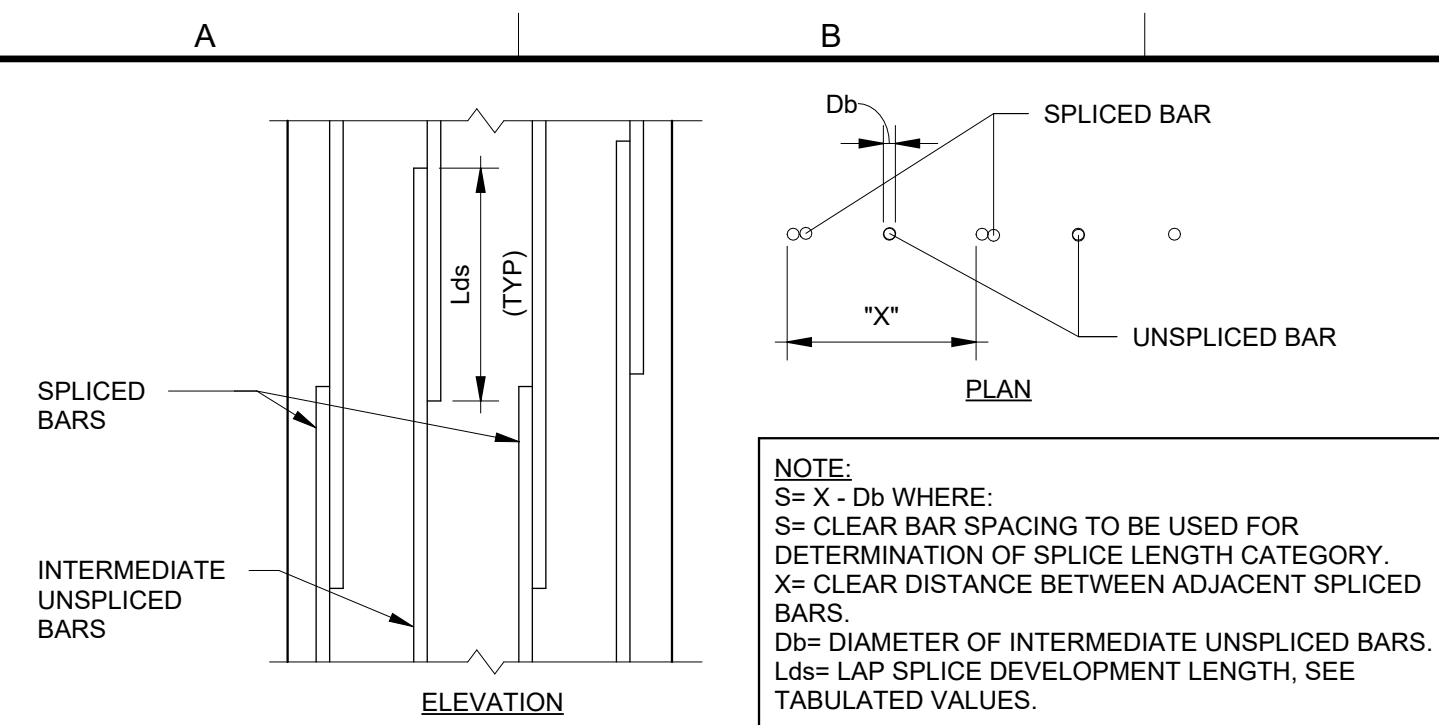


AMALGAMATED SUGAR COMPANY
2320 ORCHARD DRIVE EAST
TWIN FALLS, ID 83301

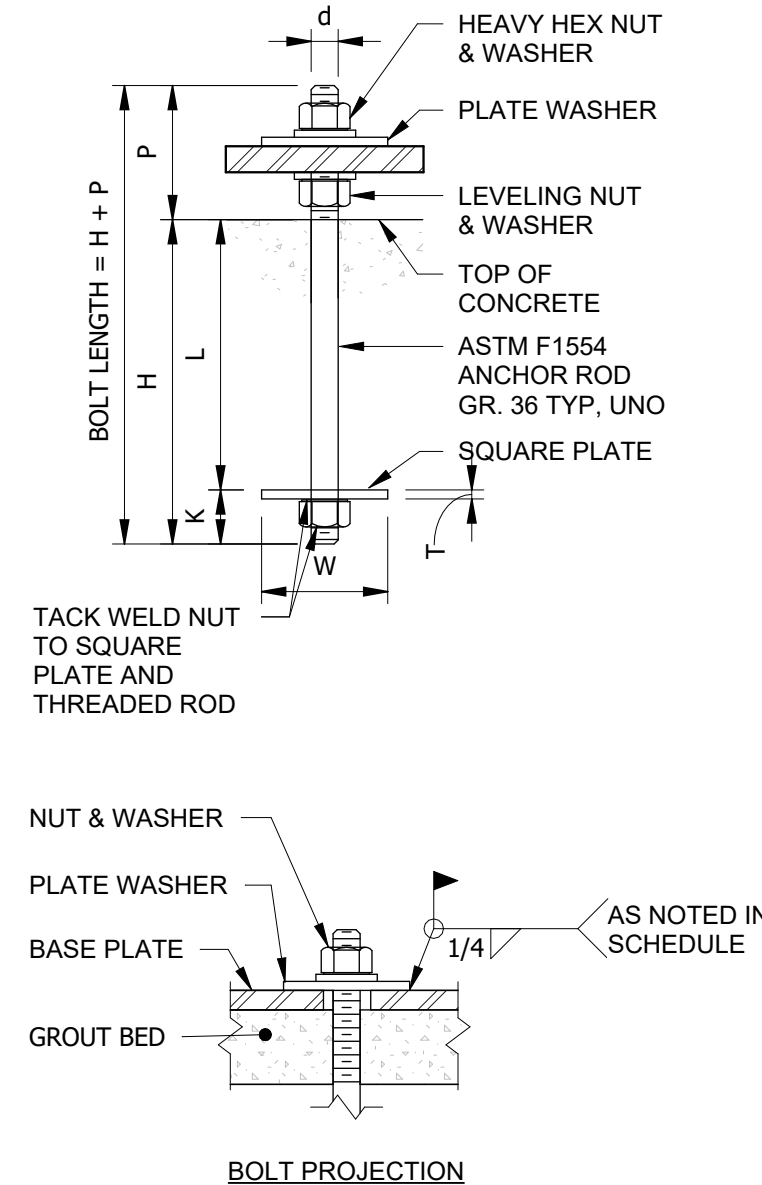
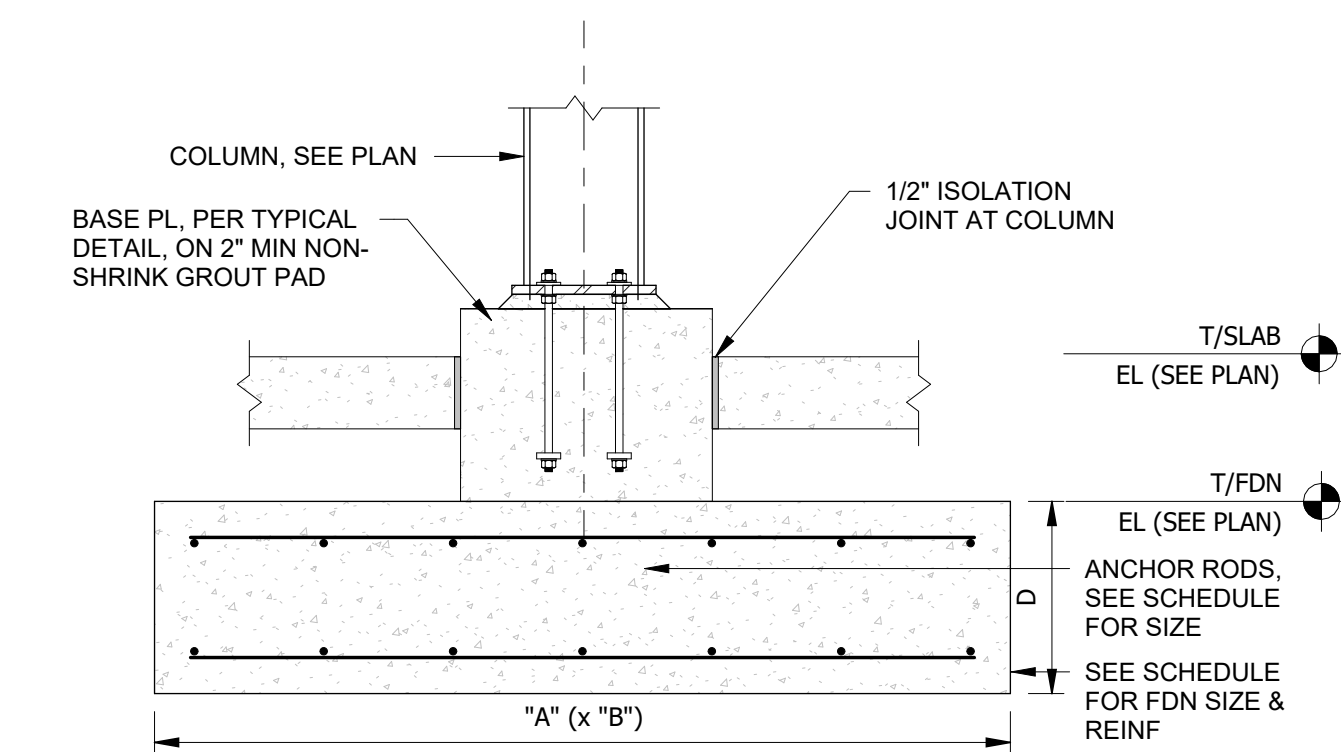
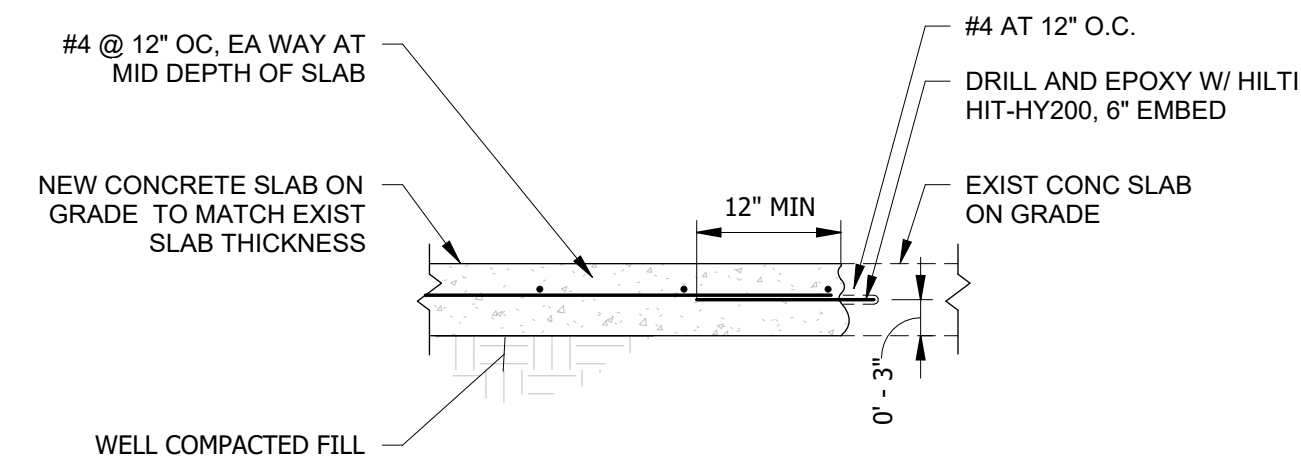
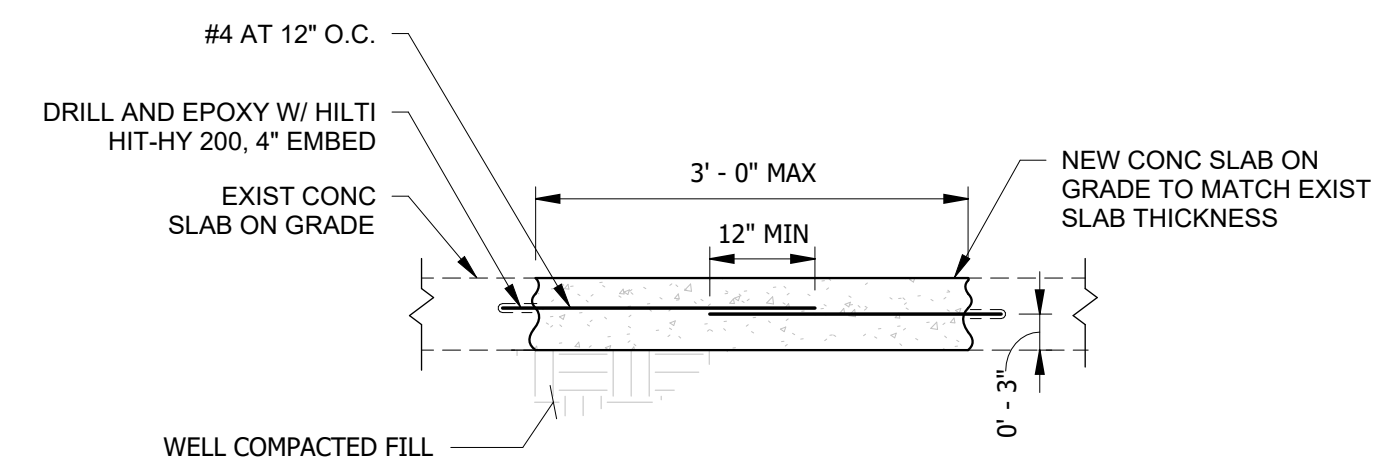
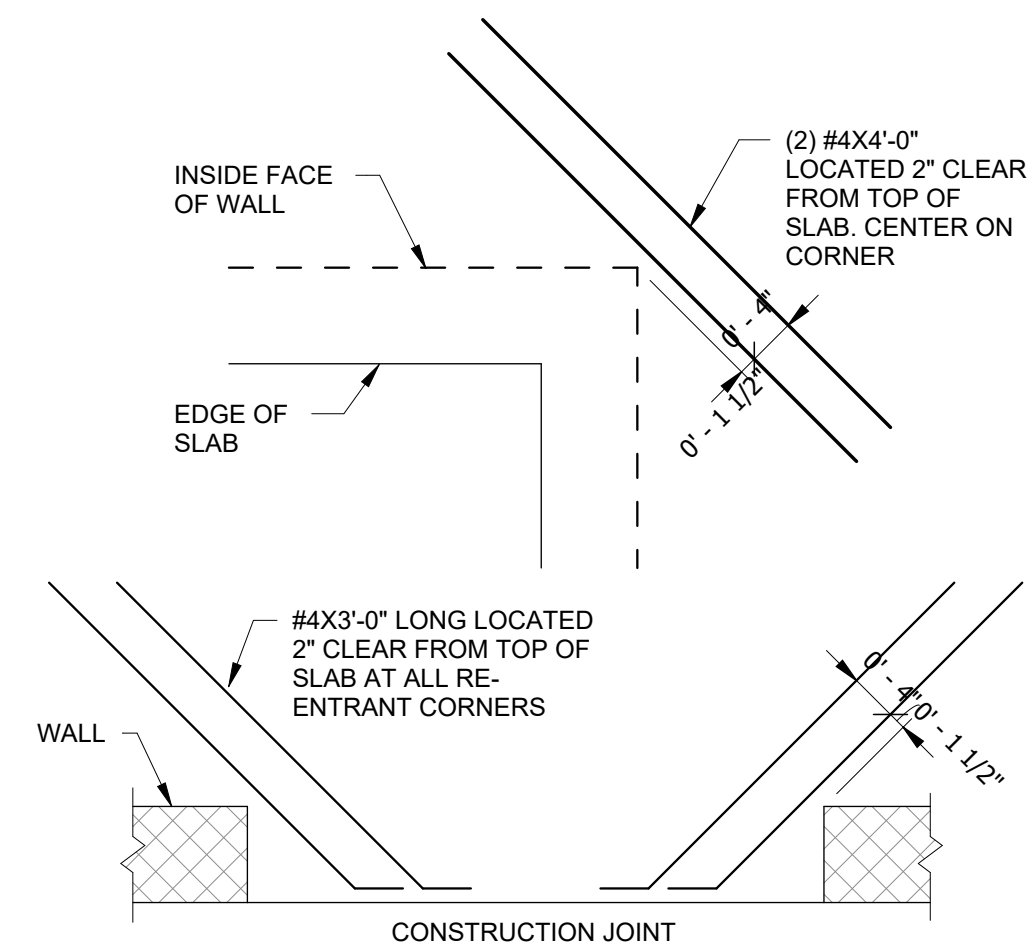
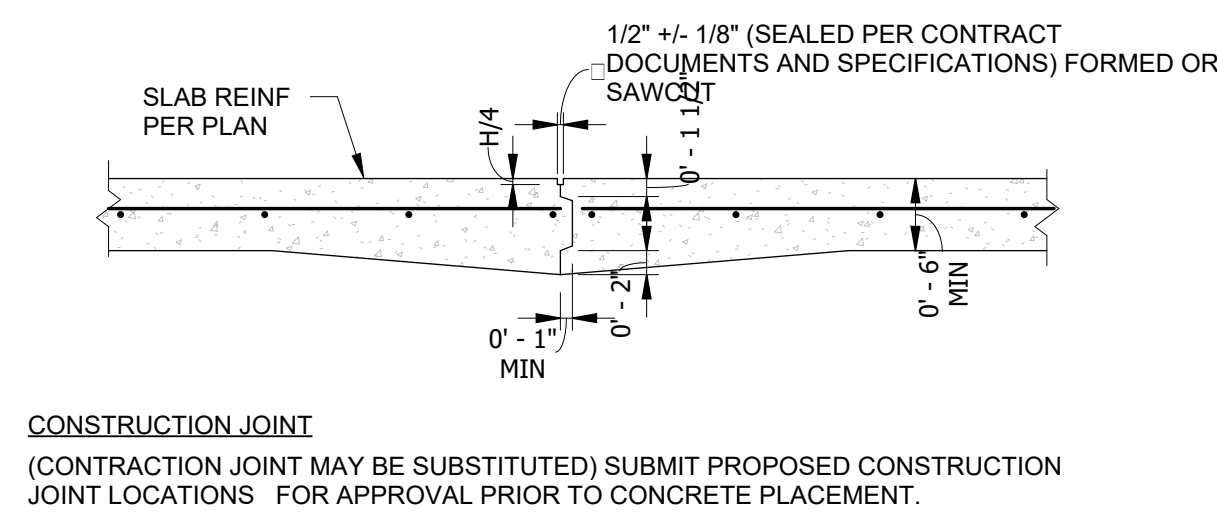
Date: 04/11/25
Chkd By: S. WILSON
Dsgn By: D. VIELE

Project:	E24140	Revision:
Dwg:	S2.12	

Wing Size:
24x28



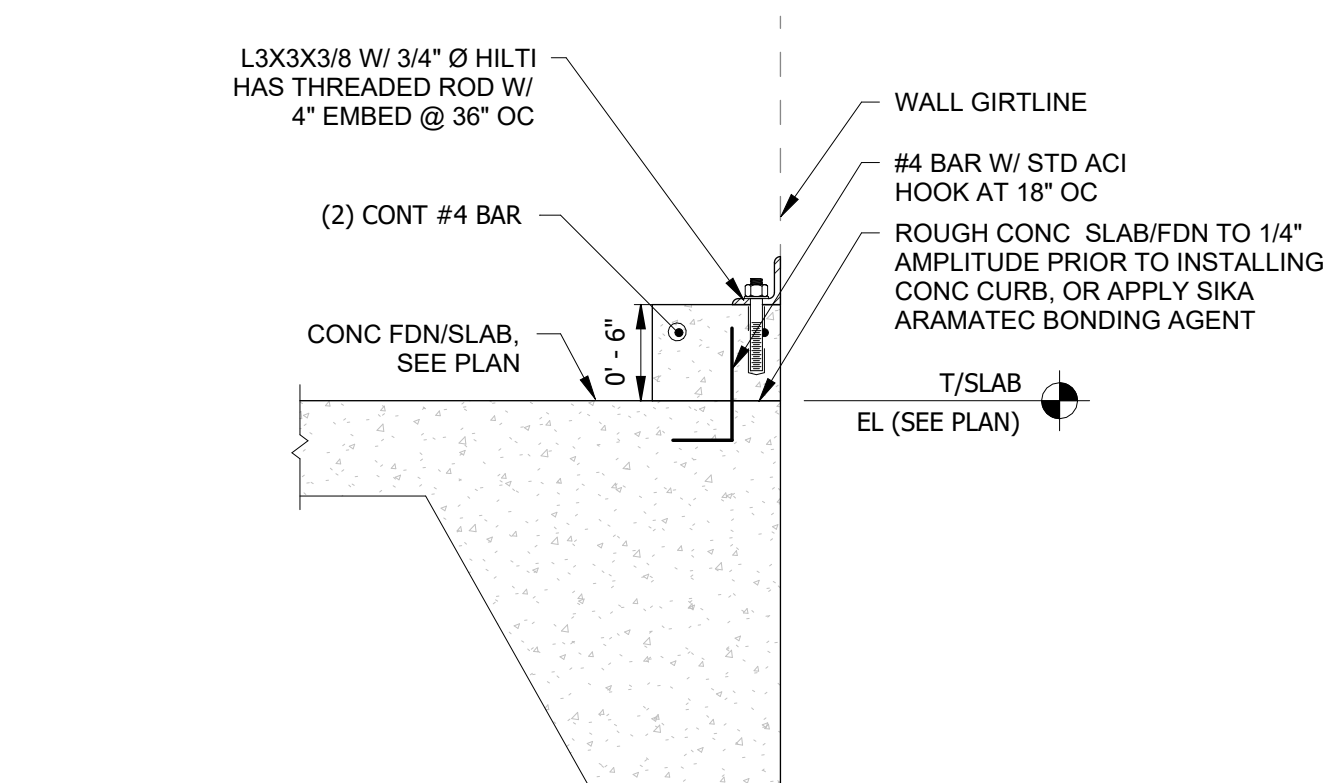
RECOMMENDED END HOOKS, ALL GRADES							
BARS SIZE	FINISHED BEND DIAMETER D (IN.)	180° HOOKS		90° HOOK	F _c = 3000 PSI	F _c = 4000 PSI	F _c = 5000 PSI
		A OR G, (IN.)	J, (IN.)	A OR G, (IN.)	LDH	LDH	LDH
#3	2 1/4	5	4	6	9	8	7
#4	3	6	4	8	11	10	9
#5	4 1/2	7	5	10	14	12	11
#6	2 1/2	8	6	12	17	15	13
#7	5 1/4	10	7	14	20	17	15
#8	6	11	8	16	22	19	17
#9	9 1/2	15	11 3/4	19	25	22	20
#10	10 3/4	17	13 1/4	22	28	25	22



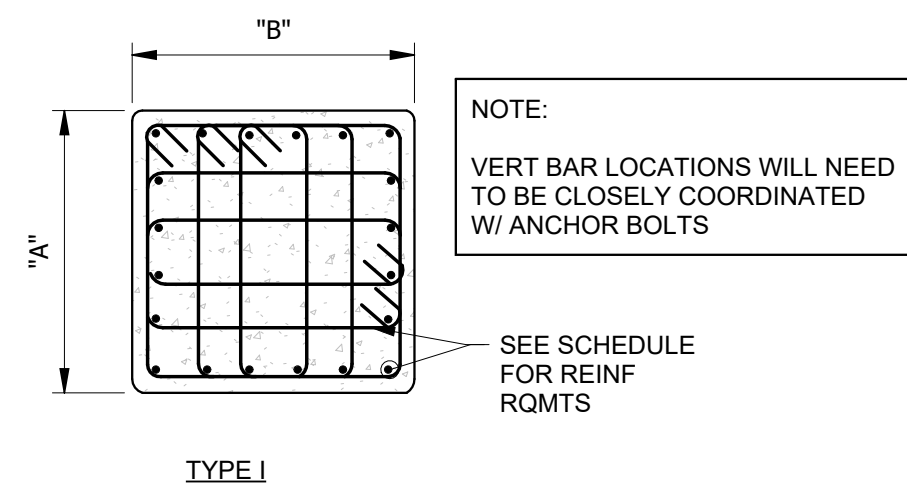
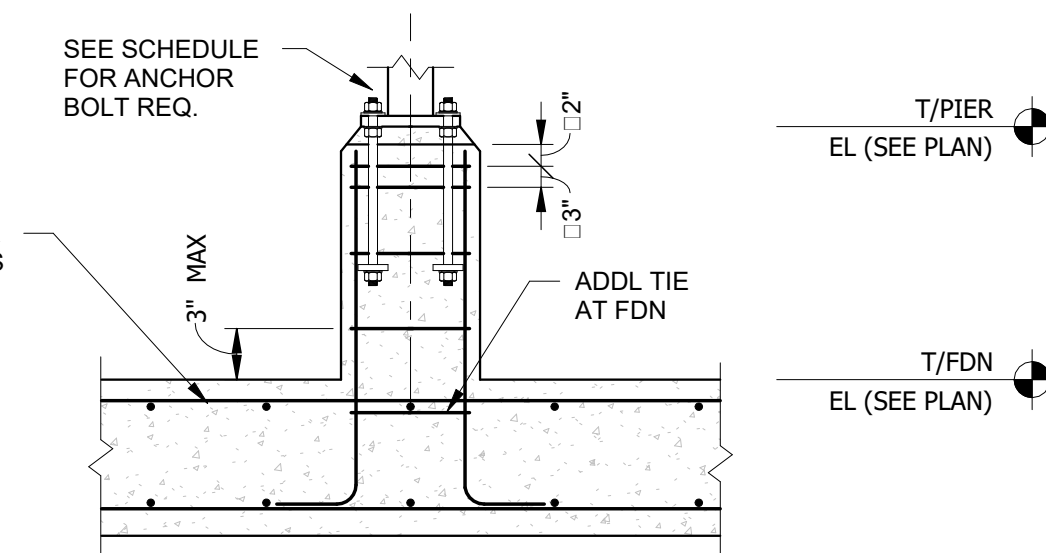
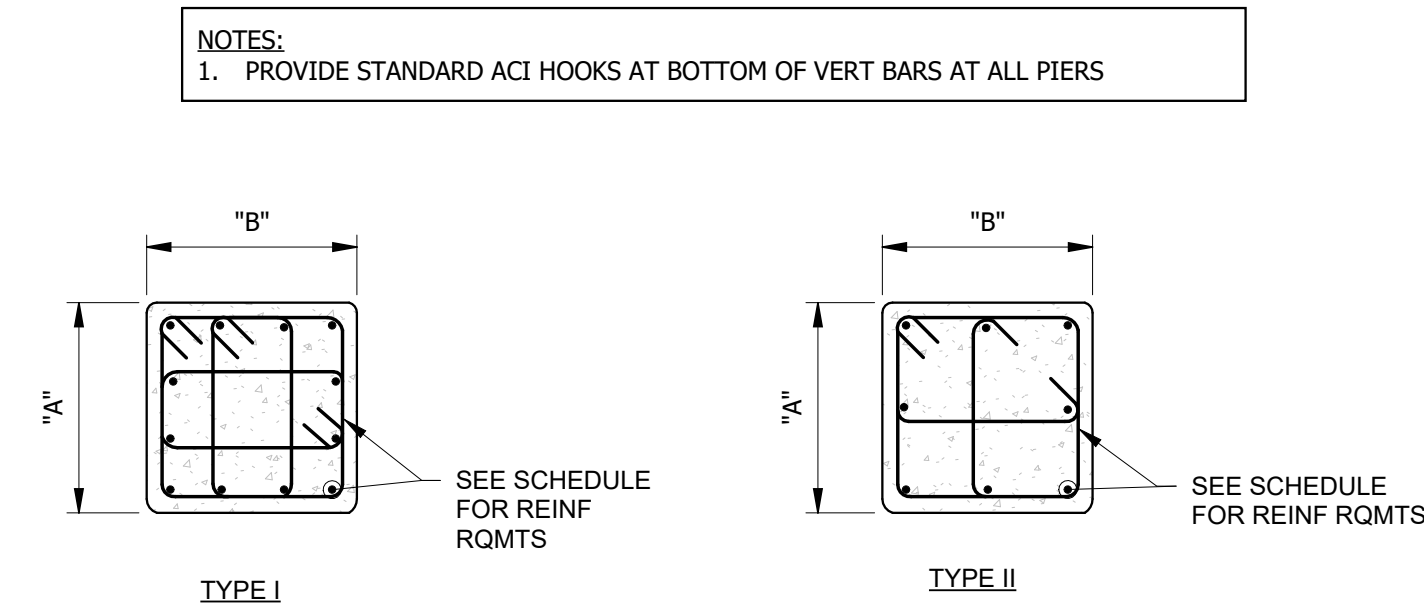
LETTERED DIMENSIONS		ANCHOR ROD DIAMETER (F1554 GR. 36)								
		1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4	
BASE PL. HOLE DIA.		1	1 1/8	1 5/16	1 9/16	1 13/16	2 1/16	2 5/16	2 3/4	
SQUARE PLATE	W	2	2	2 1/2	2 3/4	3	4 1/4	4 1/2	5 1/2	
	T	1/2	1/2	1/2	3/4	3/4	1	1	1	
	HOLE DIA.	5/8	3/4	7/8	1	1 1/8	1 3/8	1 5/8	1 7/8	
L, UNO		8	10	12	15	17	22	27	35	
H = L+K, UNO		9%	11%	14	17	19	24%	30	38%	
K		1%	1%	2	2	2	2%	3	3%	
P (MIN)		6			8			10		
PLATE WASHER		1/4"x2"x2"			3/8"x3"x3"			1/2"x4"x4"		
HOLE DIAMETER		9/16	11/16	13/16	15/16	1 1/16	1 5/16	1 9/16	1 13/16	

*ANCHOR EMBEDMENT DEPTH "H" BASED ON 6" MIN SPACING UP TO 1"Ø AND 8" MIN SPACING OVER 1"Ø, $f_c = 4000$ PSI, AND PURE TENSION LOADING.

FOUNDATION SCHEDULE					
FDN DESIGNATION	DIMENSION "A"	DIMENSION "B"	FDN THICKNESS	REBAR (EA WAY T&B UNO)	REMARKS
F3.0P	3'-0"	5'-0"	1'-6"	(4) #5 LONG, (6) #5 TRANS	T/FDN = T/EXIST SLAB
F4.0	4'-0"	5'-0"	1'-6"	(5) #6	T/FDN = T/EXIST SLAB
F5.0P	5'-0"	5'-0"	1'-6"	(6) #6	COORD LOCATION W/ STRUCTURAL ENG
F5.0	5'-0"	5'-0"	1'-6"	(6) #6	



PIER SCHEDULE						
M	SIZE		REINFORCING		TYPE	COMMENTS
	A	B	VERTICAL	TIES		
P1818	1' - 6"	1' - 6"	(8) #6	#4 @ 6"	II	
P3030	2' - 6"	2' - 6"	(12) #8	#4 @ 6"	I	
P3030S	2' - 6"	2' - 6"	(20) #7	#4 @ 3"	III	HOOK AT TOP OF VERT BARS



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Title: AMALGAMATED SUGAR COMPANY EVAPORATOR PROJECT
CONCRETE DETAILS AND SECTIONS



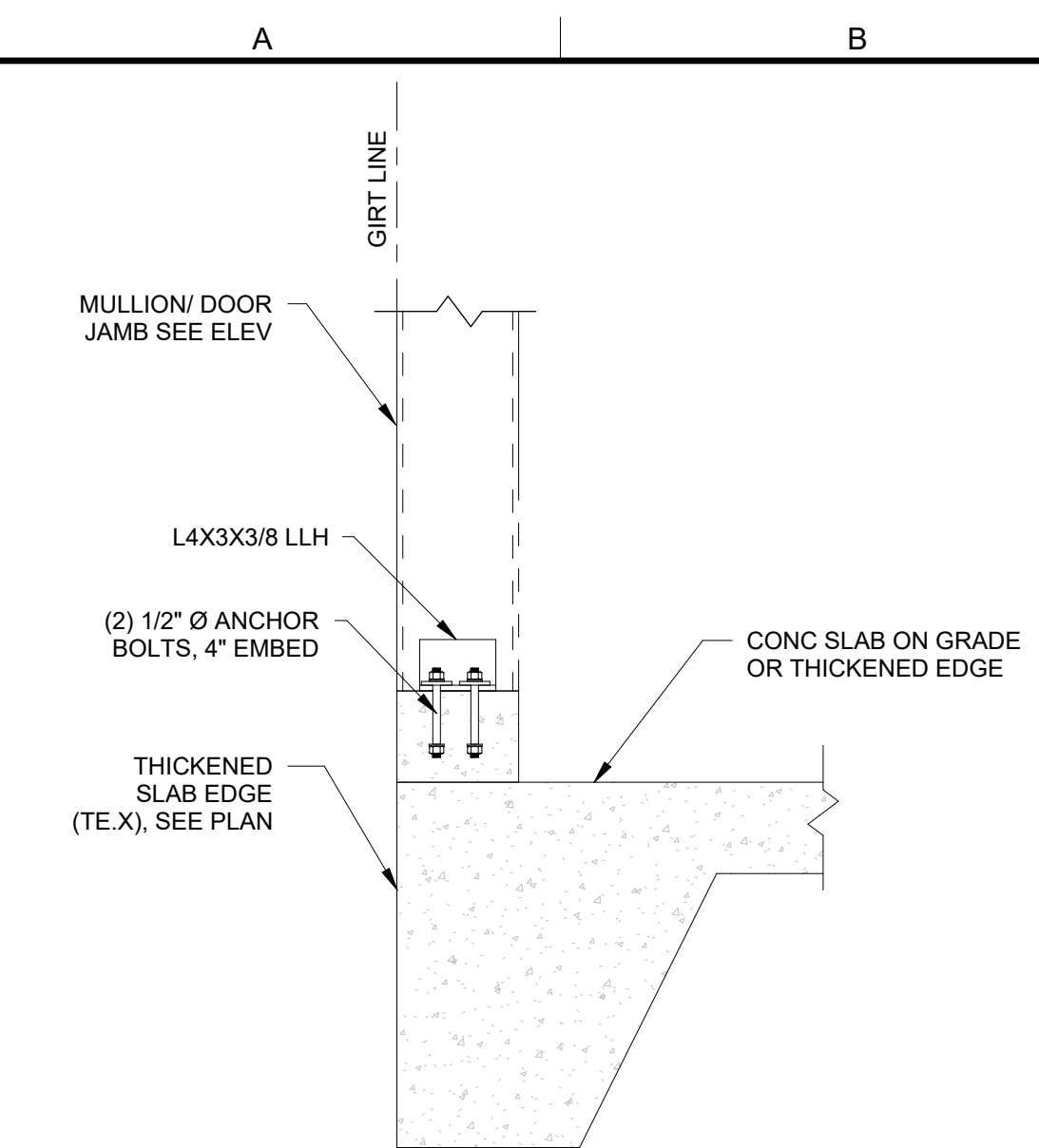
AMALGAMATED SUGAR COMPANY
2320 ORCHARD DRIVE EAST
TWIN FALLS, ID 83301

Date: 04/11/25
Chkd By: S. WILSON
Dsgn By: D. VIELE

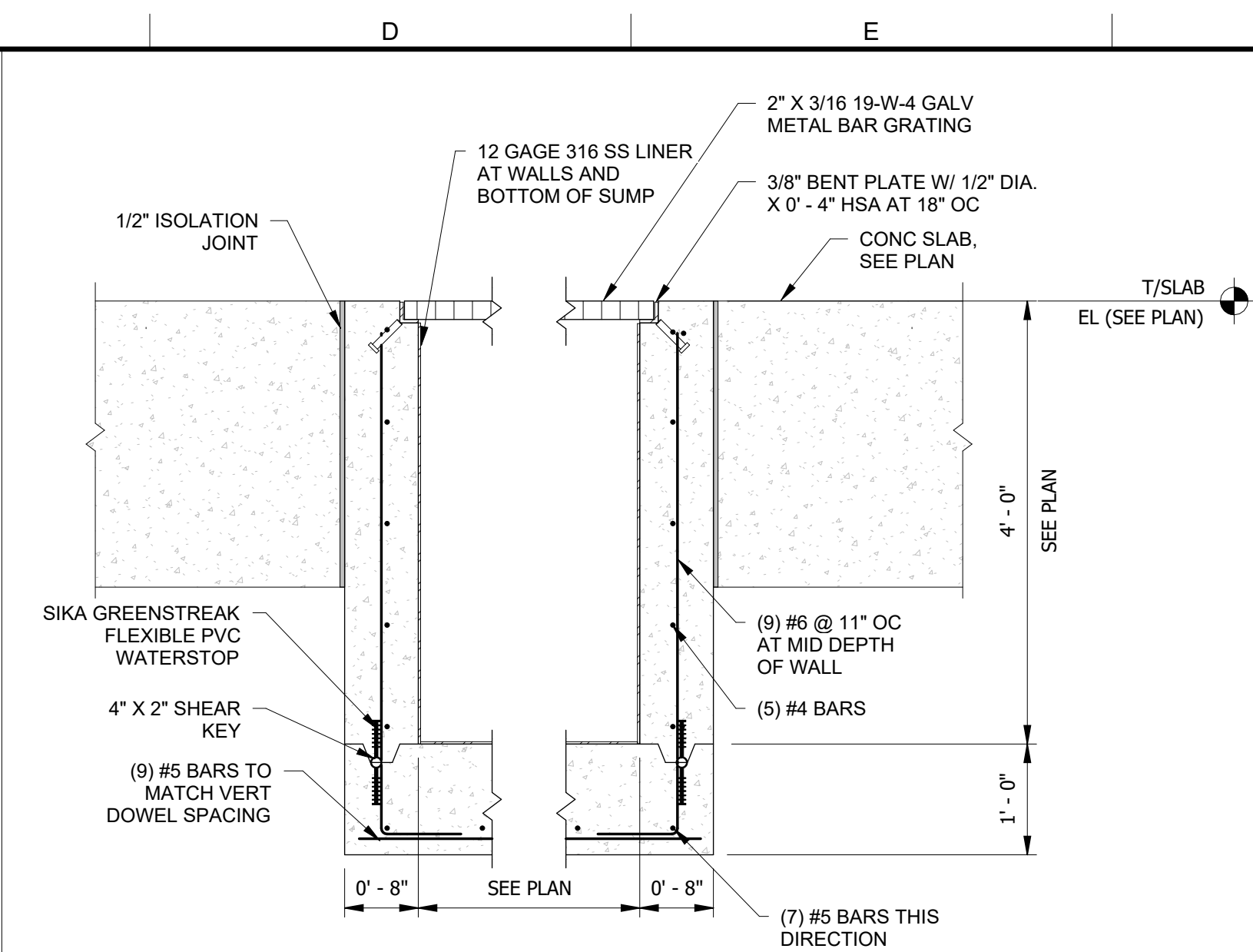
Project:
Dwg:

Dwg Size
24X36

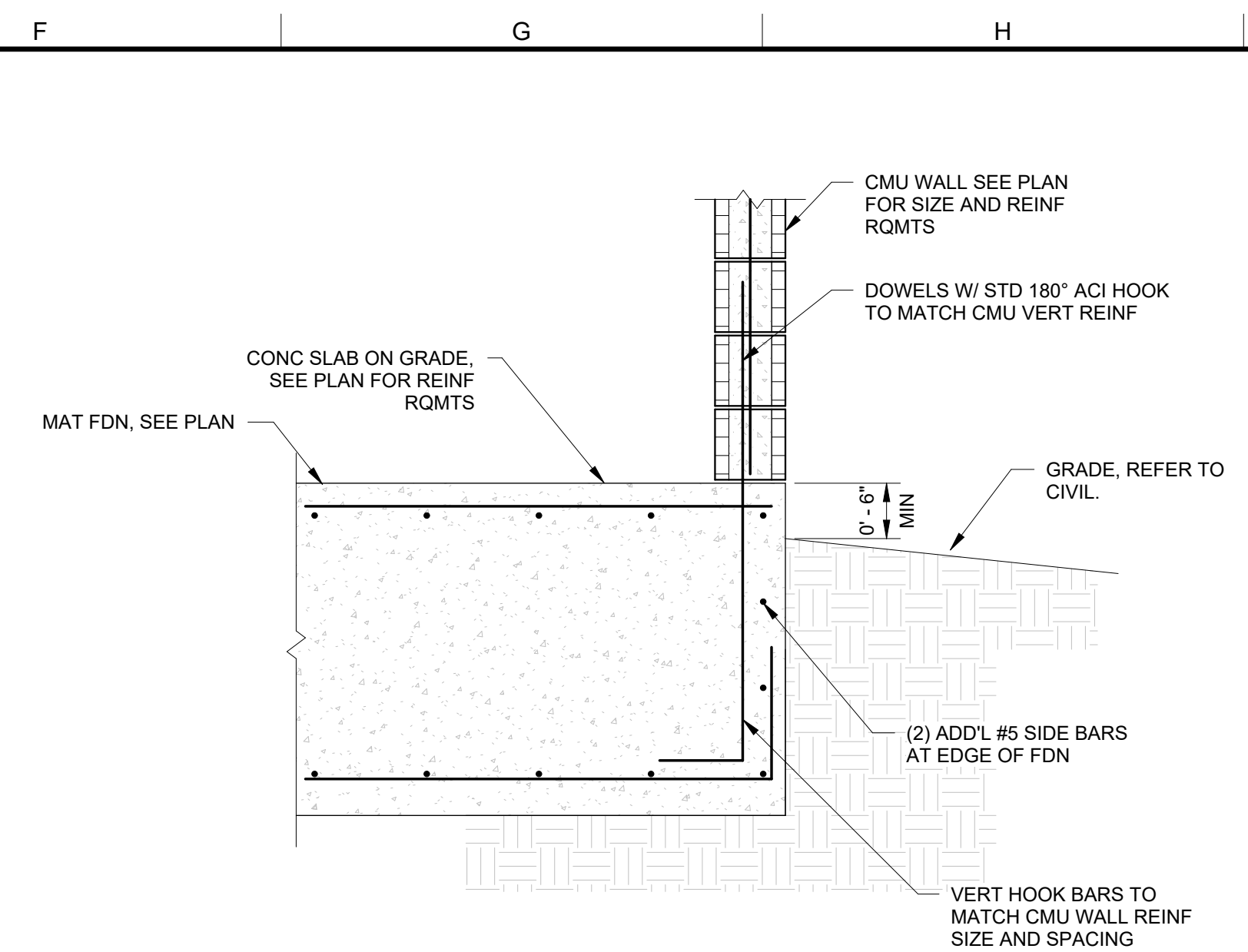
Revision
C



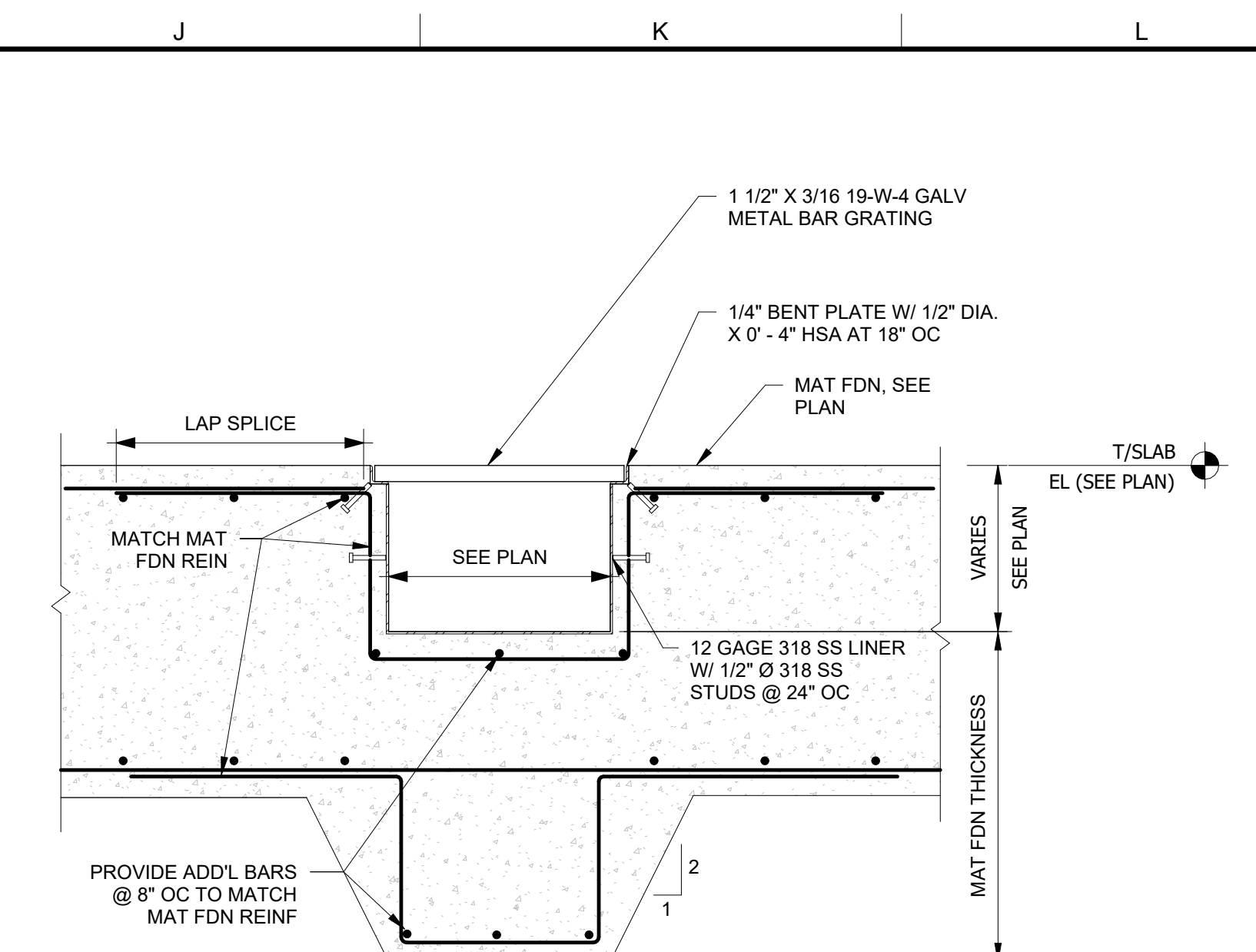
1 TYP GIRT CONNECTION DETAIL
1" = 1'-0"



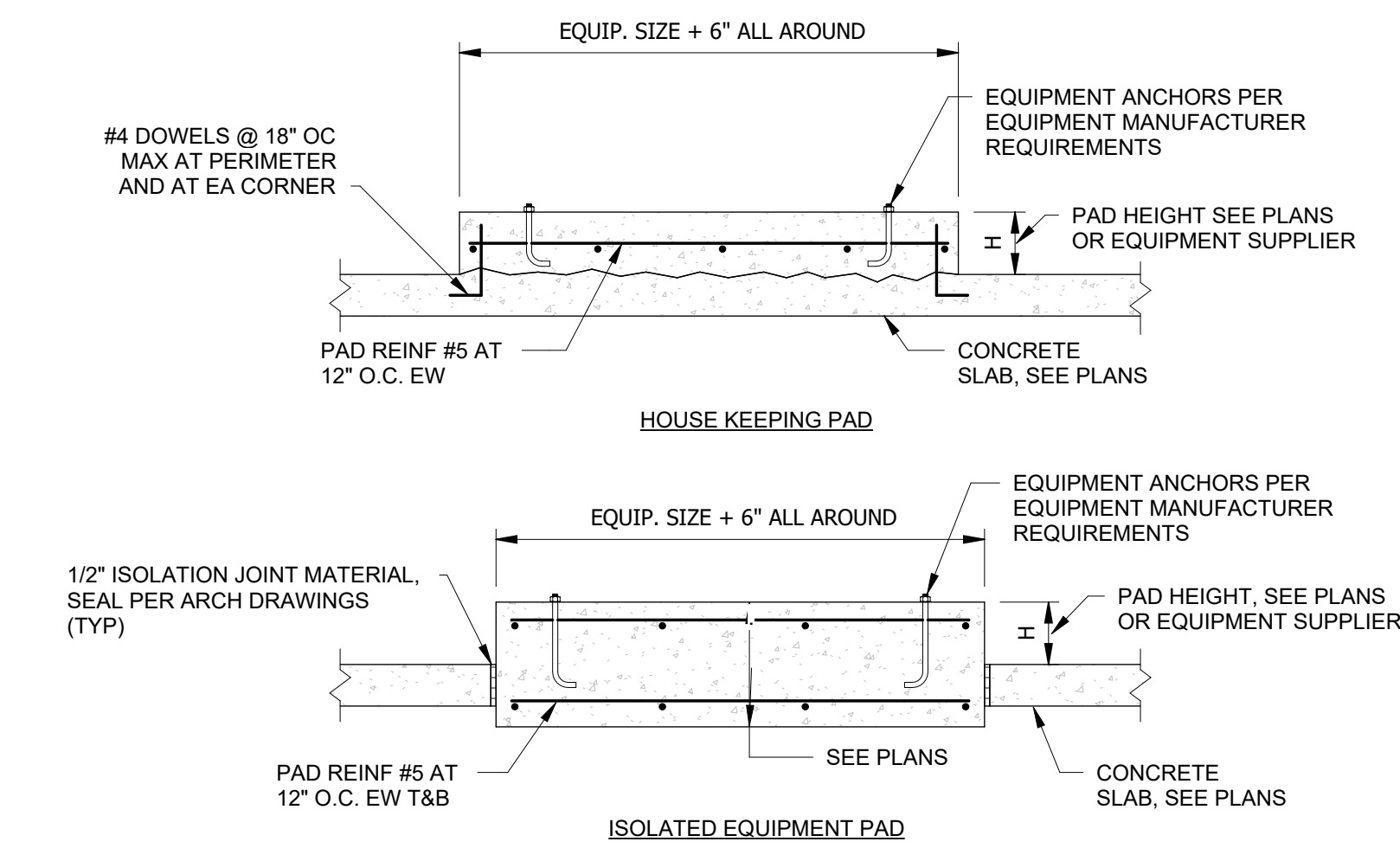
② SECTION AT SUMP PIT (OR LARGE TRENCHES)
3/4" = 1'-0"



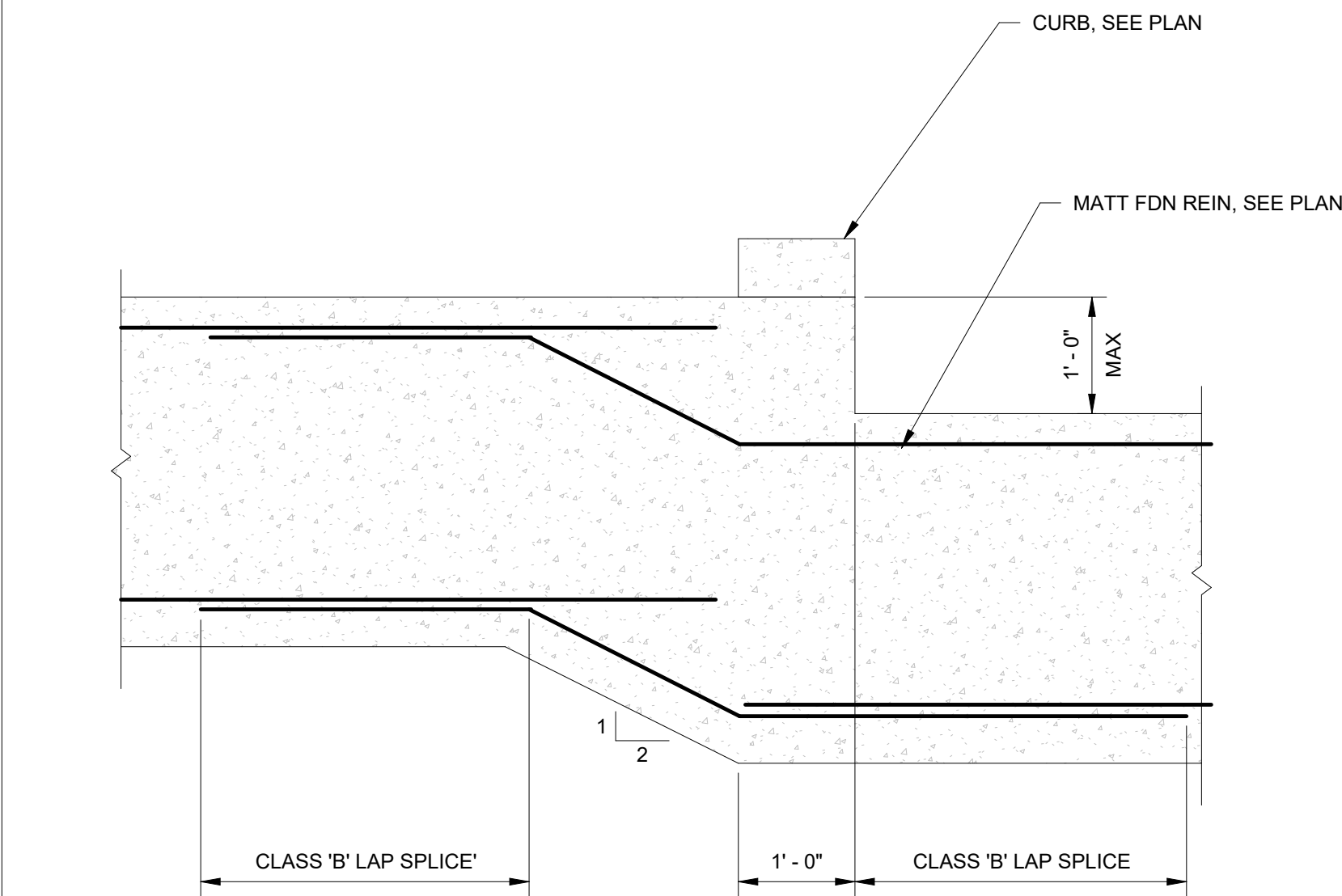
③ TYPICAL SECTION AT CMU WALL AT MAT FDN
3/4" = 1'-0"



4 TYPICAL TRENCH DETAIL AT MAT FDN
3/4" = 1'-0"



5 TYPICAL EQUIPMENT PAD / HOUSE KEEPING PAD
3/4" = 1'-0"



6 STEP AT MAT FOUNDATION REIN DETAIL
3/4" = 1'-0"

[illegible]

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Title: AMALGAMATED SUGAR COMPANY EVAPORATOR PROJECT
CONCRETE DETAILS AND SECTIONS

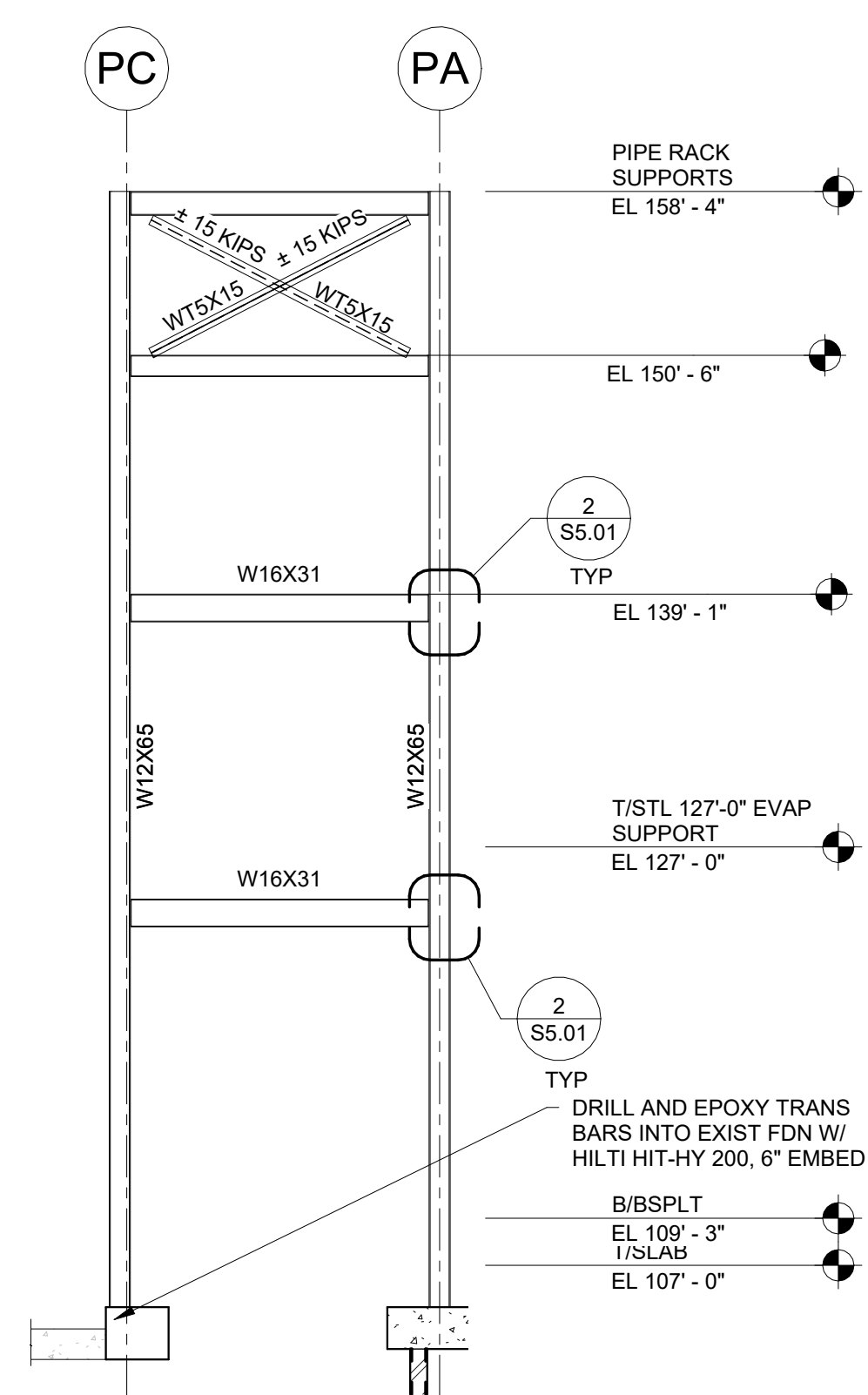


AMALGAMATED SUGAR COMPANY
2320 ORCHARD DRIVE EAST
TWIN FALLS, ID 83301

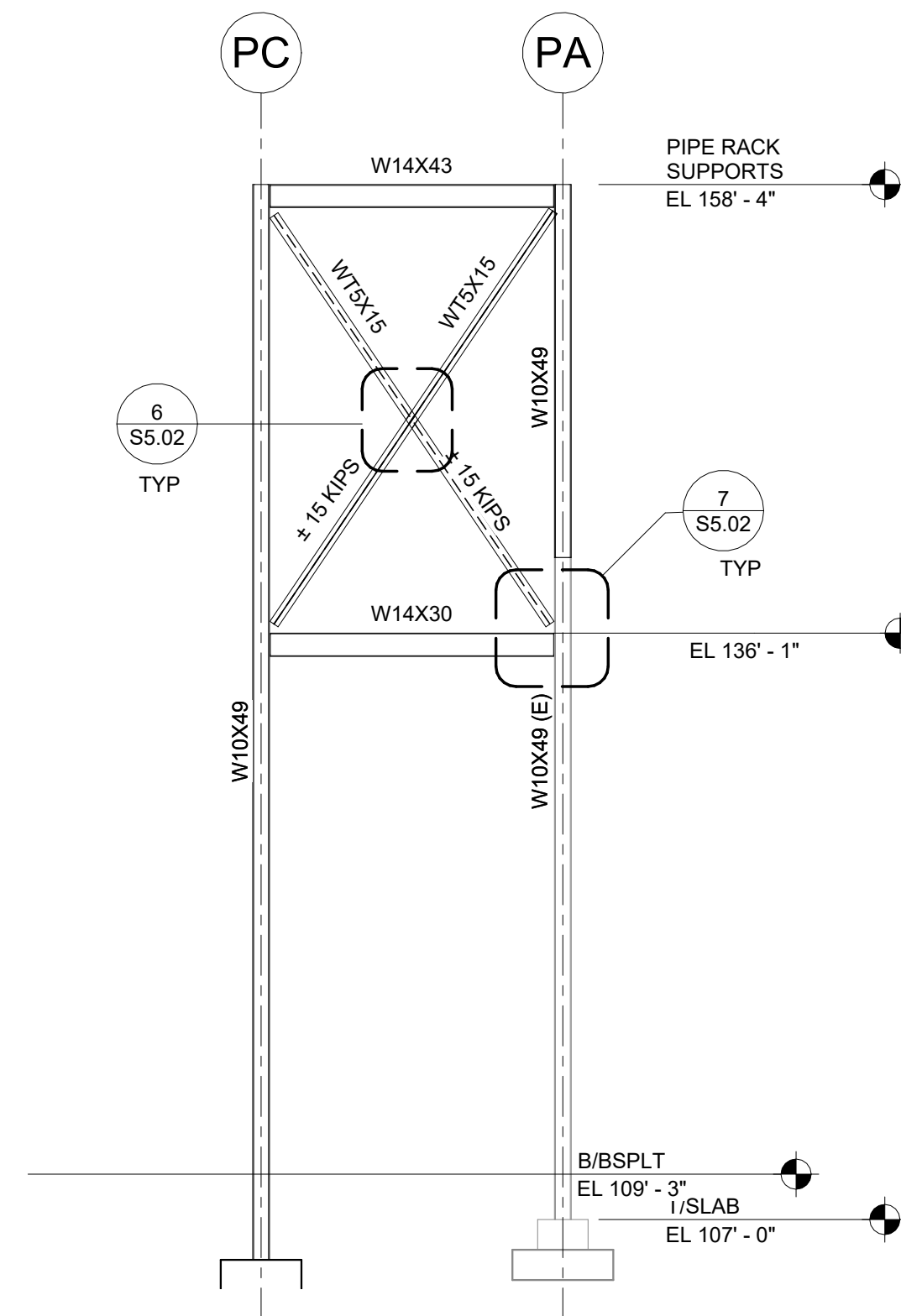
Date: 04/11/25
Chkd By: S. WILSON
Dsgn By: D. VIELE

Project:	E24140	Revision:
Dwg:	S3.02	

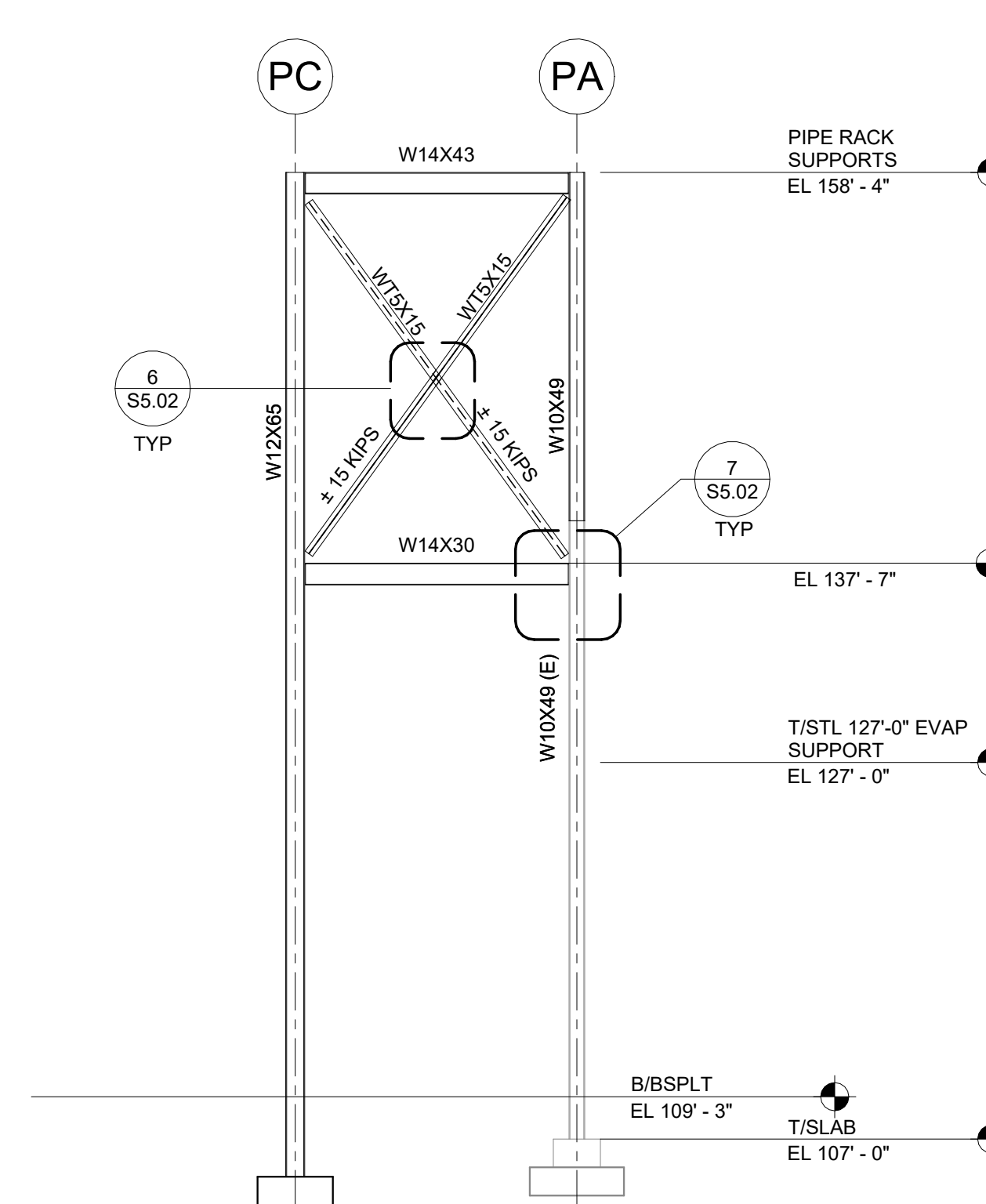
C:\Users\dviele\Documents\E24140 ASC Evaporator STR R25 backup dviele@veiglobal.com.rvt



① BRACED FRAME 4 (BF 4) ELEVATION
1/8" = 1'-0"



② BRACED FRAME 5 (BF5) ELEVATION
1/8" = 1'-0"



③ BRACED FRAME 6 (BF 6) ELEVATION
1/8" = 1'-0"

[illegible]

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20 JUNE 2025**

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Title:	AMALGAMATED SUGAR COMPANY EVAPORATOR PROJECT BRACED FRAME ELEVATIONS
--------	---



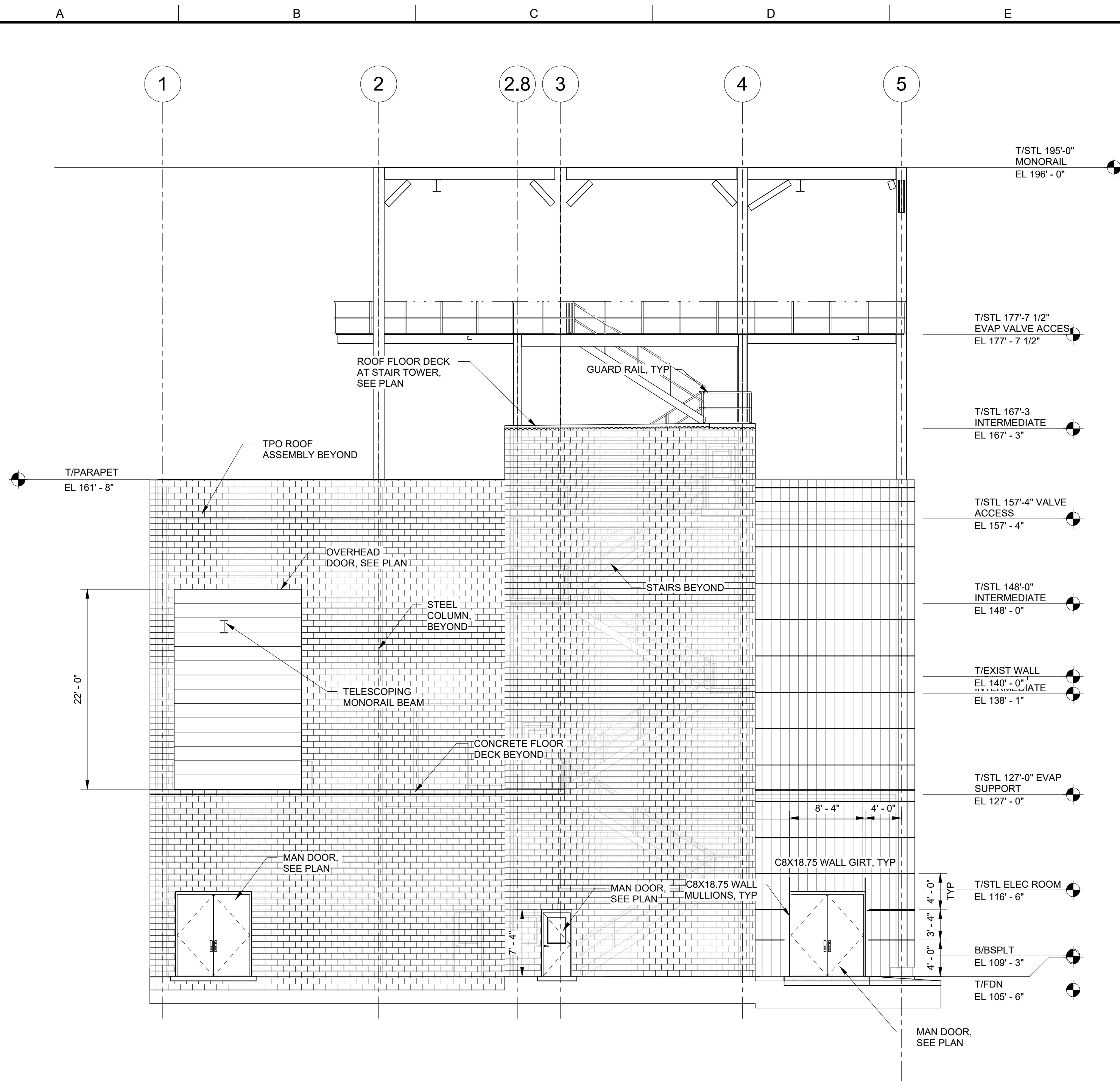
AMALGAMATED SUGAR COMPANY
2320 ORCHARD DRIVE EAST
TWIN FALLS, ID 83301

Date: 04/11/25
Chkd By: S. WILSON
Dsgn By: D. VIELE

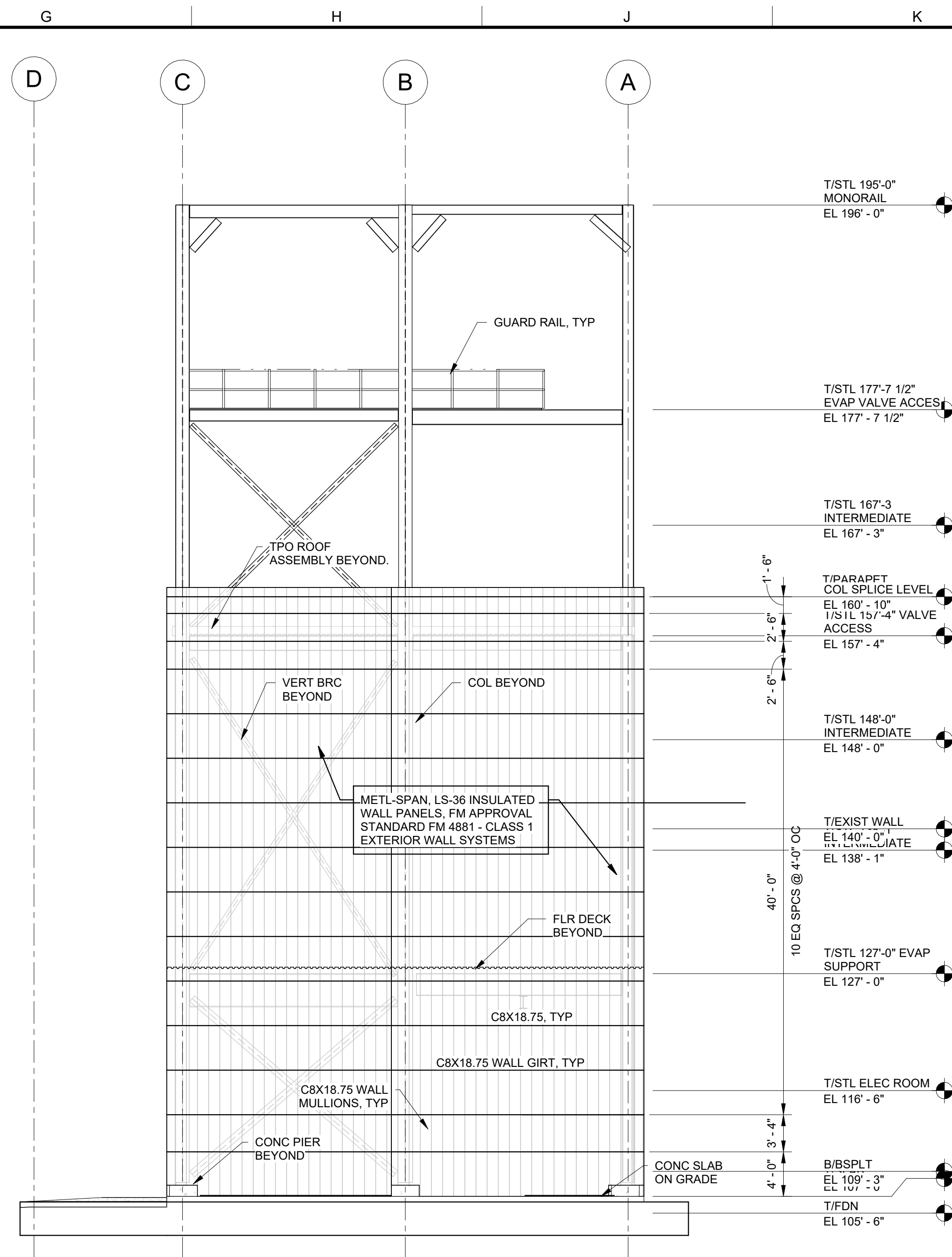
Project:	E24140
Dwg:	S4.02

Dwg Size	24X36
----------	-------

Revision
B



1 SOUTH BUILDING ELEVATION (LOOKING NORTH)
1/8" = 1'-0"



2 EAST BUILDING ELEVATION (LOOKING WEST)
1/8" = 1'-0"

No.	Date	By	Revision	Ad. No.
C	2025.06.20	DV	OWNER COMMENTS	
B	2025.04.25	DV	ISSUED FOR BID	
A	2025.04.11	DV	ISSUED FOR APPROVAL (70% CHECKSET)	

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20 JUNE 2025

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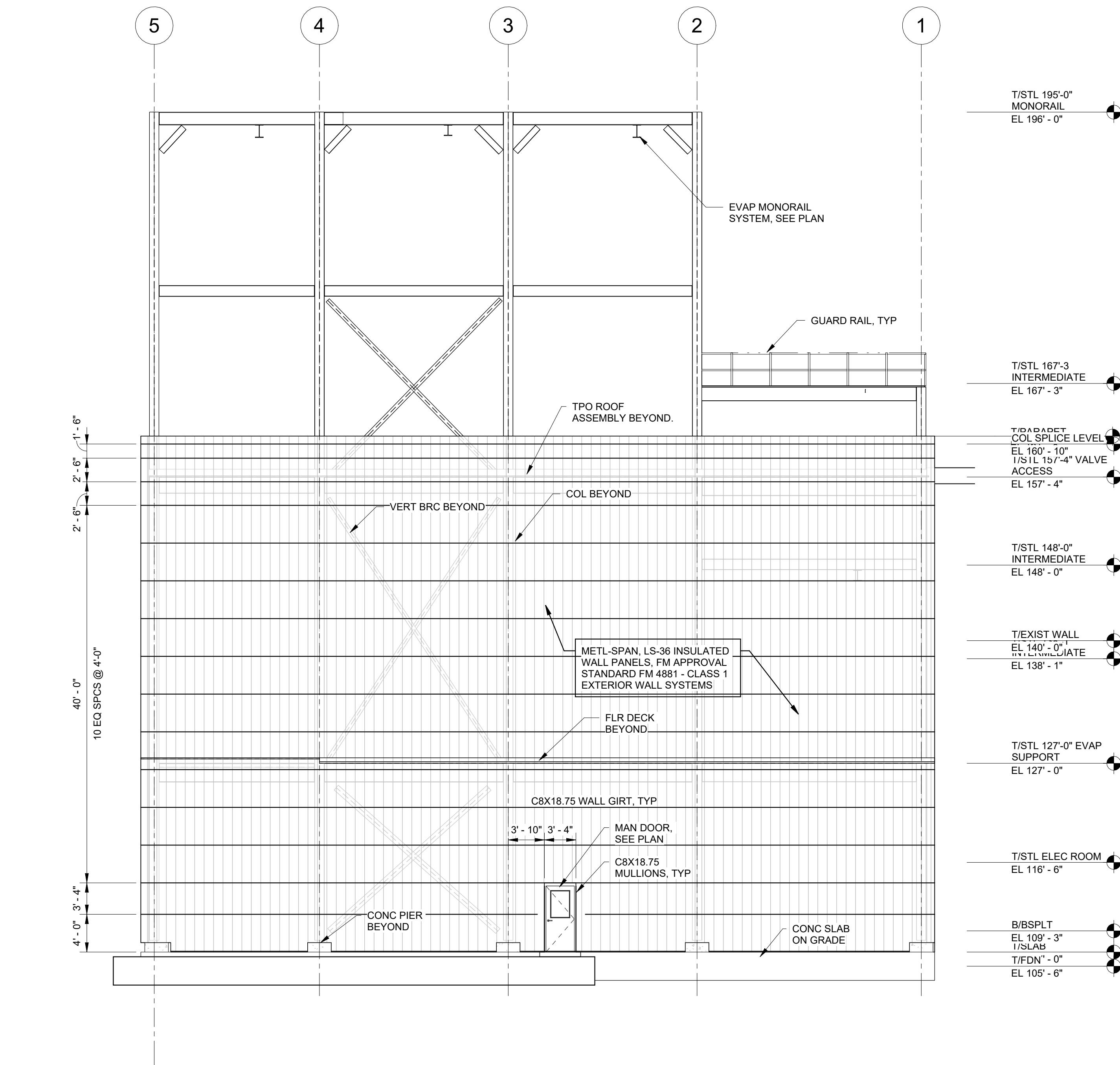
Title: AMALGAMATED SUGAR COMPANY EVAPORATOR PROJECT
BUILDING ELEVATIONS



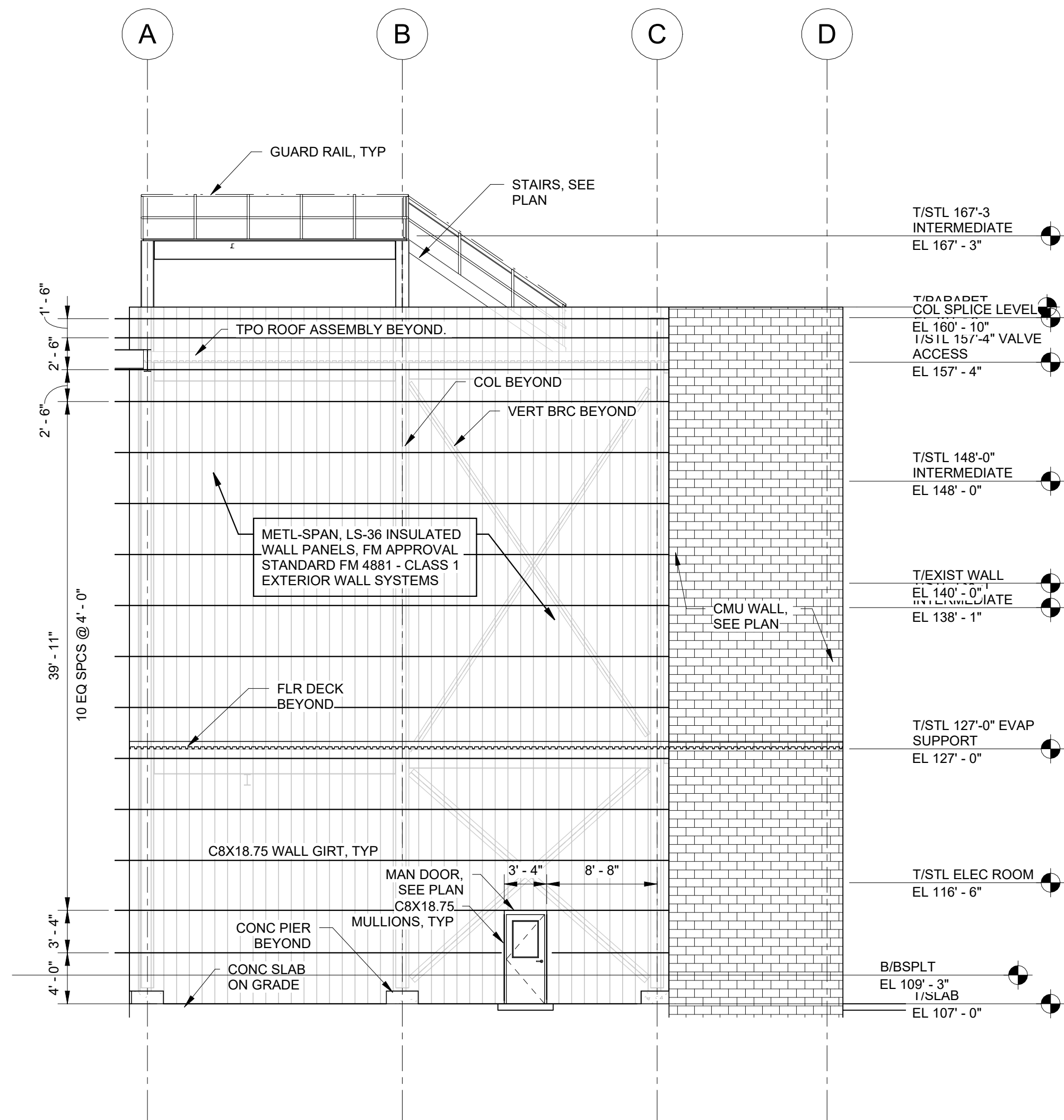
AMALGAMATED SUGAR COMPANY
2320 ORCHARD DRIVE EAST
TWIN FALLS, ID 83301

Date: 04/11/25
Chkd By: S. WILSON
Dsgn By: D. VIELE
Project: E24140
Dwg: S4.11

Dwg Size: 24X36
Revision: 1



1 NORTH BUILDING ELEVATION (LOOKING SOUTH)
1/8" = 1'-0"



2 WEST BUILDING ELEVATION (LOOKING EAST)
1/8" = 1'-0"

No.	Date	By	Revision	Ad. No.
C	2025.06.20	DV	OWNER COMMENTS	
B	2025.04.25	DV	ISSUED FOR BID	
A	2025.04.11	DV	ISSUED FOR APPROVAL (70% CHECKSET)	

PRELIMINARY
NOT FOR
CONSTRUCTION
20 JUNE 2025

4990 Royal Gulf Circle
Fort Myers, FL 33966
Ph: 239.768.1778, Fax: 239.210.2168
http://www.veiglobal.com



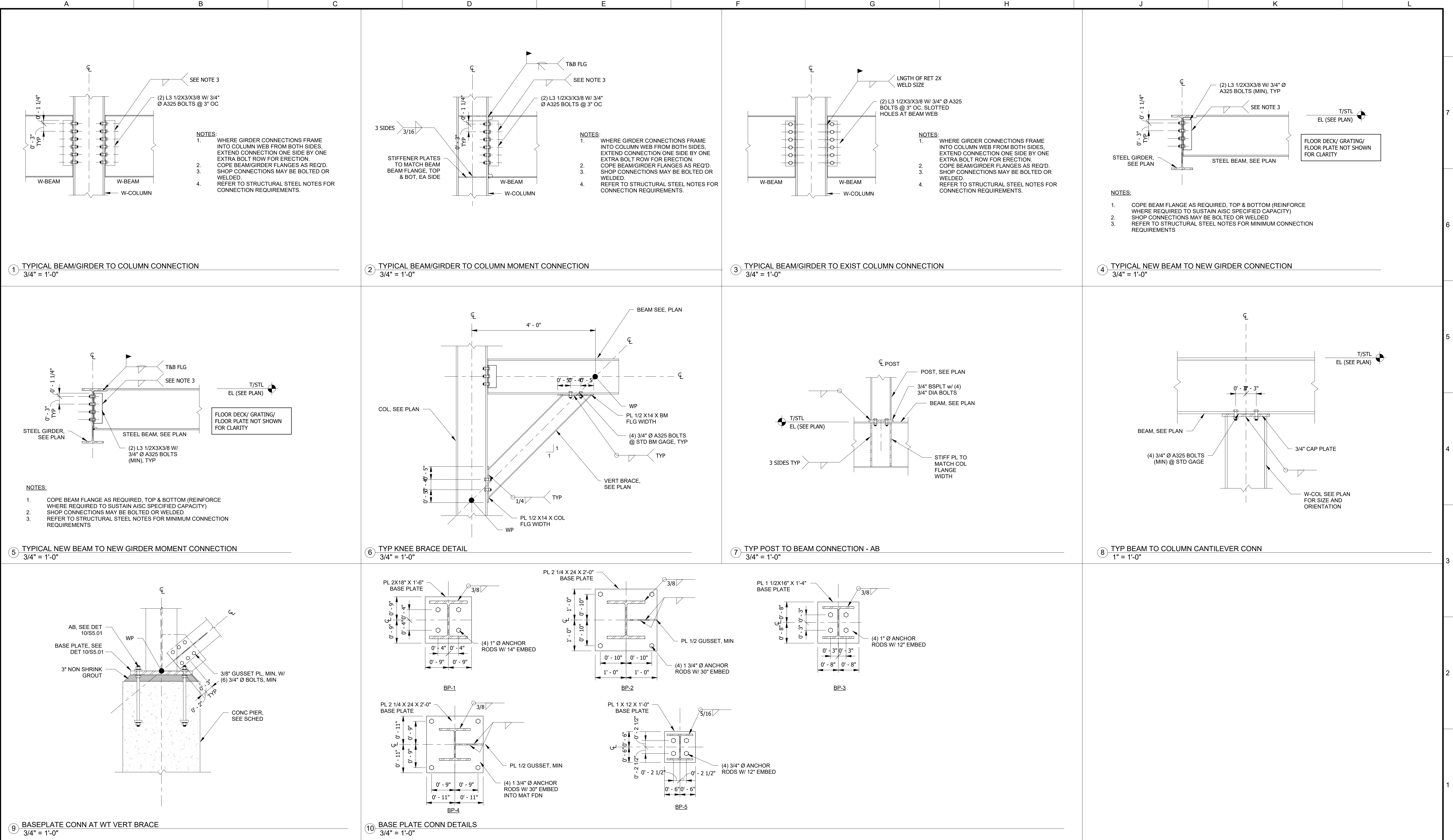
Title: AMALGAMATED SUGAR COMPANY EVAPORATOR PROJECT
BUILDING ELEVATIONS



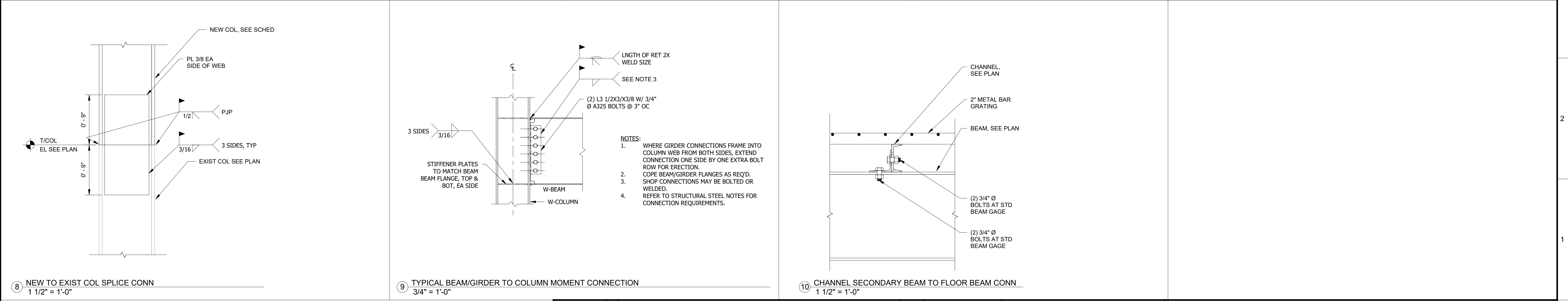
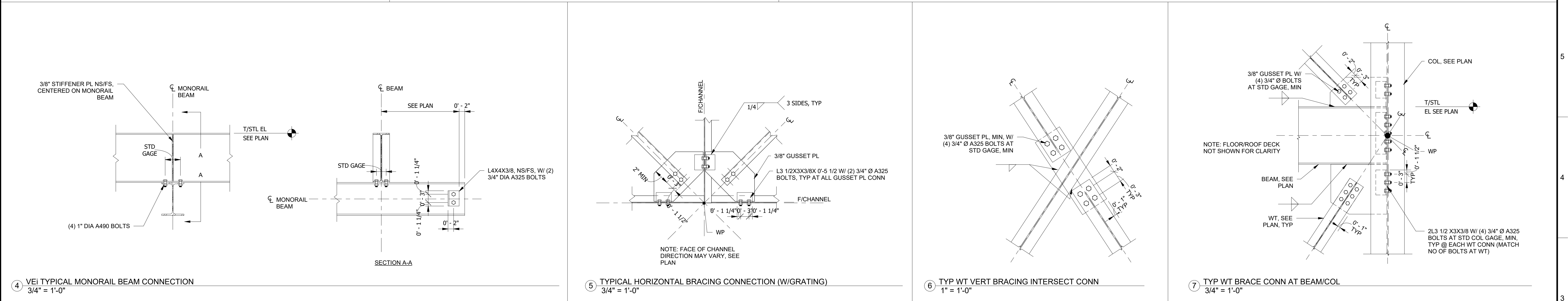
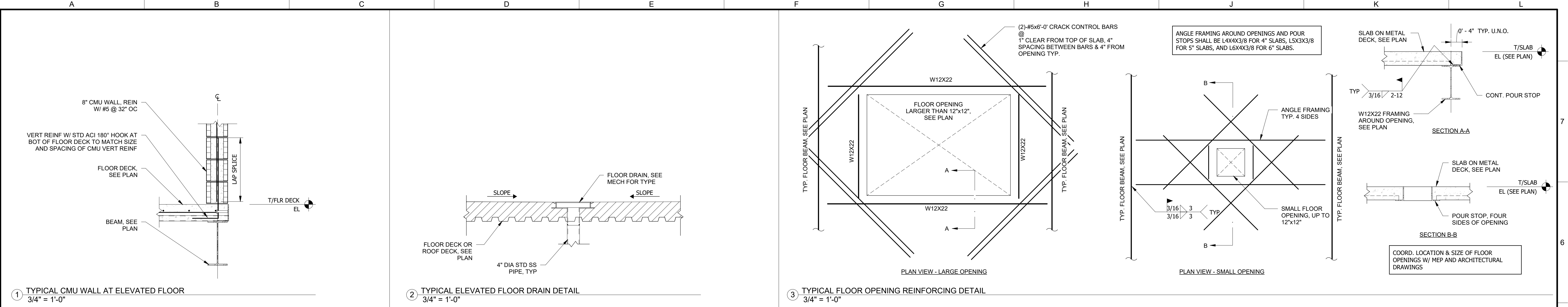
AMALGAMATED SUGAR COMPANY
2320 ORCHARD DRIVE EAST
TWIN FALLS, ID 83301

Date: 04/11/25
Chkd By: S. WILSON
Dsgn By: D. VIELE
Project: E24140
Dwg: S4.12

Dwg Size: 24X36
Revision: 1

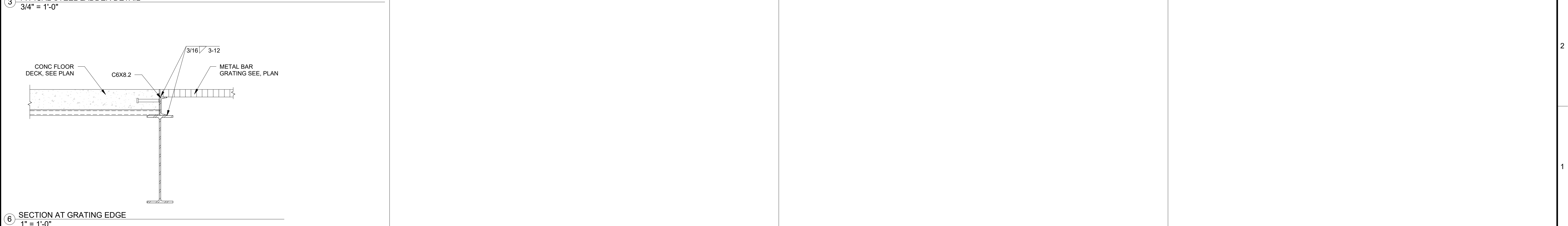
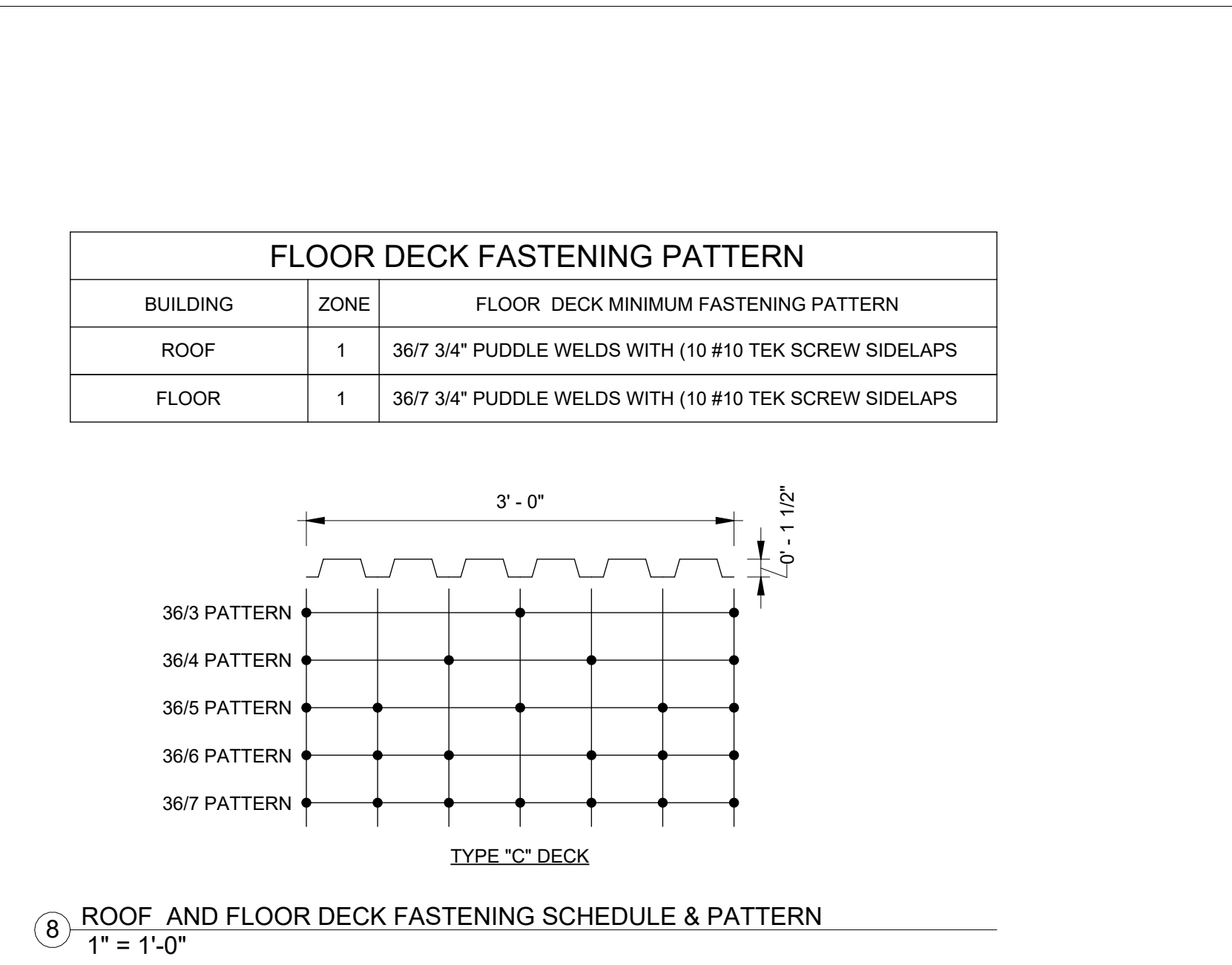
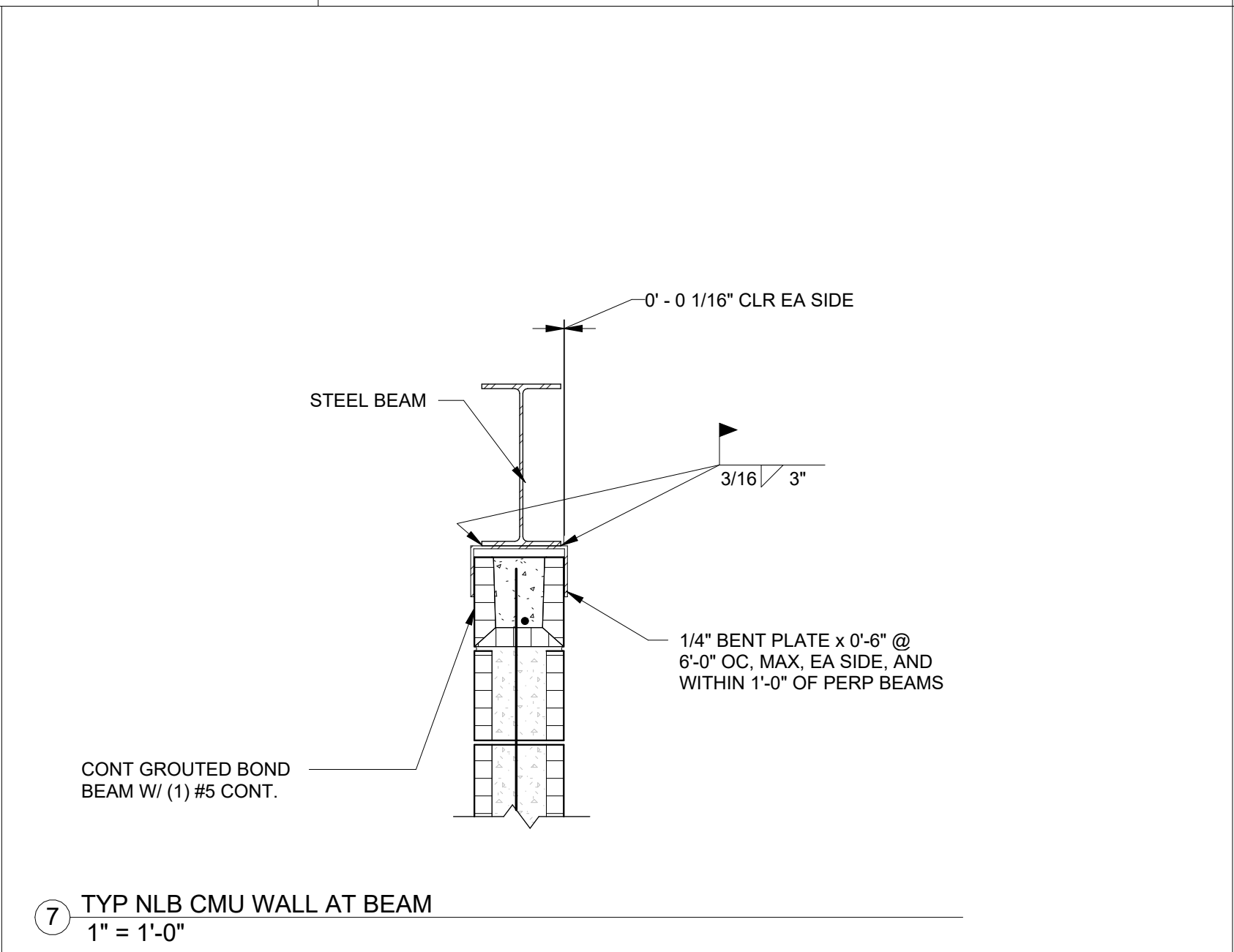
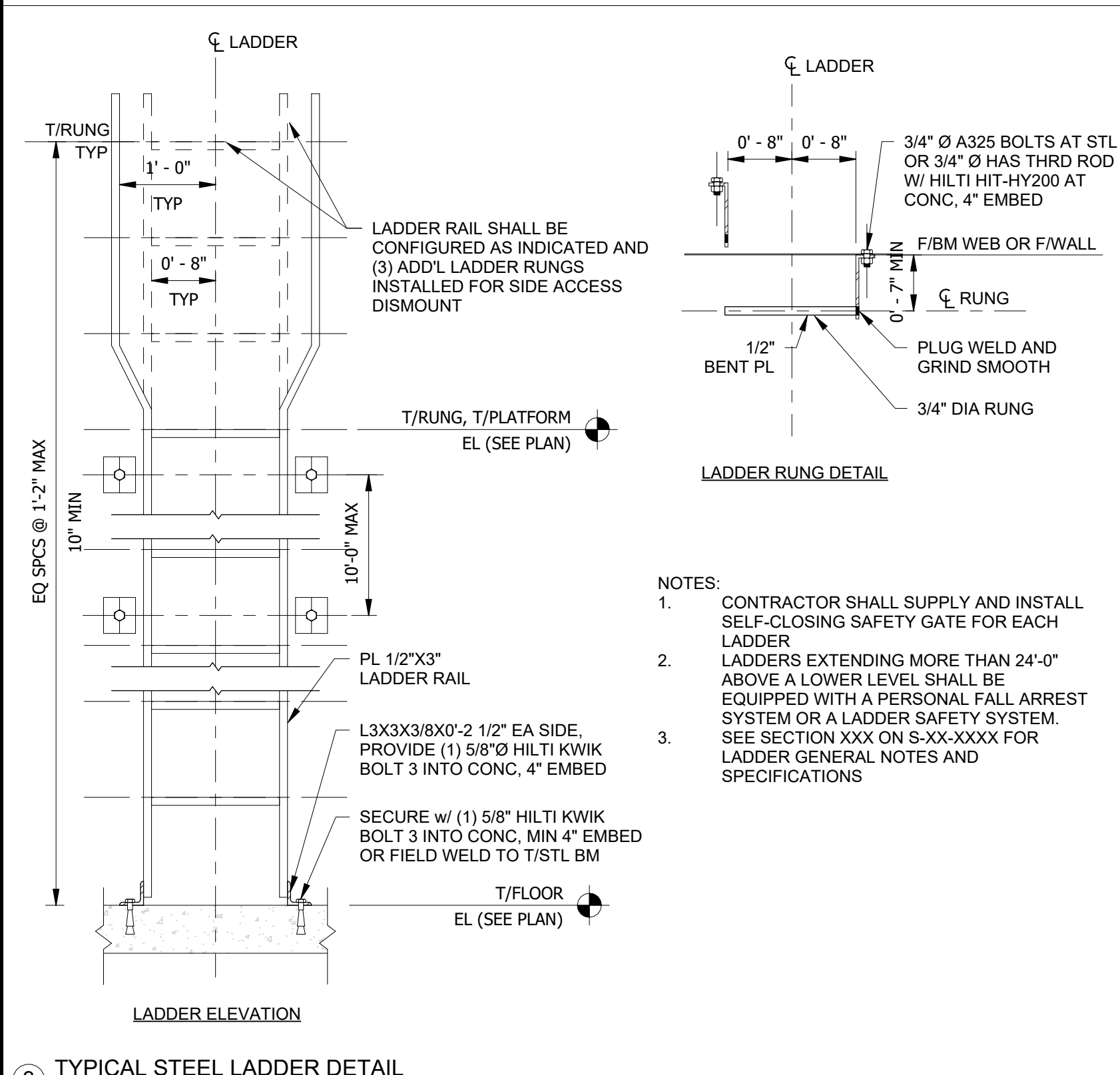
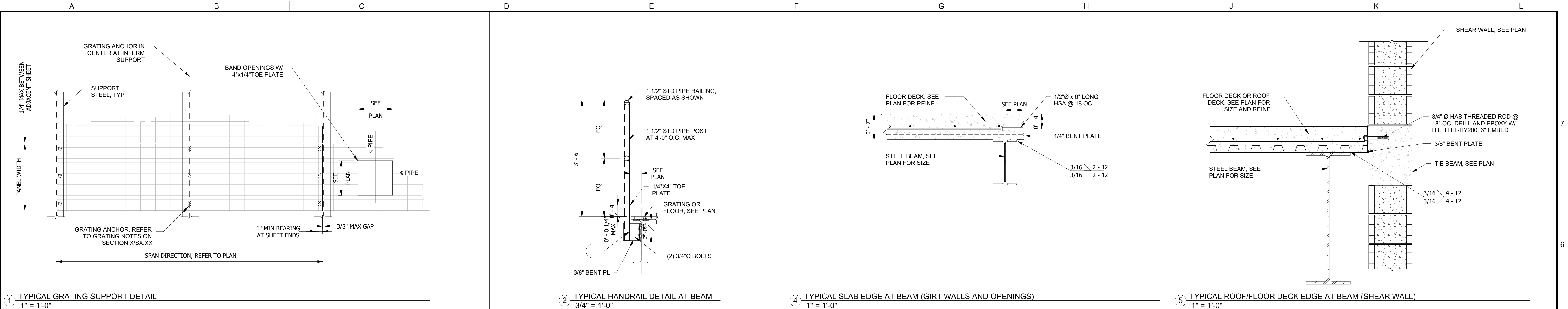


C 2025.06.20 DV OWNER COMMENTS				PRELIMINARY NOT FOR CONSTRUCTION 20 JUNE 2025		4990 Royal Gulf Circle Fort Myers, FL 33966 Ph: 239.768.1778, Fax: 239.210.2168 http://www.veiglobal.com				Title: AMALGAMATED SUGAR COMPANY EVAPORATOR PROJECT STRUCTURAL STEEL FRAMING DETAILS AND SECTIONS		
B 2025.04.25 DV ISSUED FOR BID										Date: 04/11/25 Chkd By: S. WILSON Dsgn By: D. VIELE		Dwg Size: 24X36
A 2025.04.11 DV ISSUED FOR APPROVAL (70% CHECKSET)										Project: E24140 Dwg: S5.01		Revision:
No.	Date	By	Revision	Ad. No.								

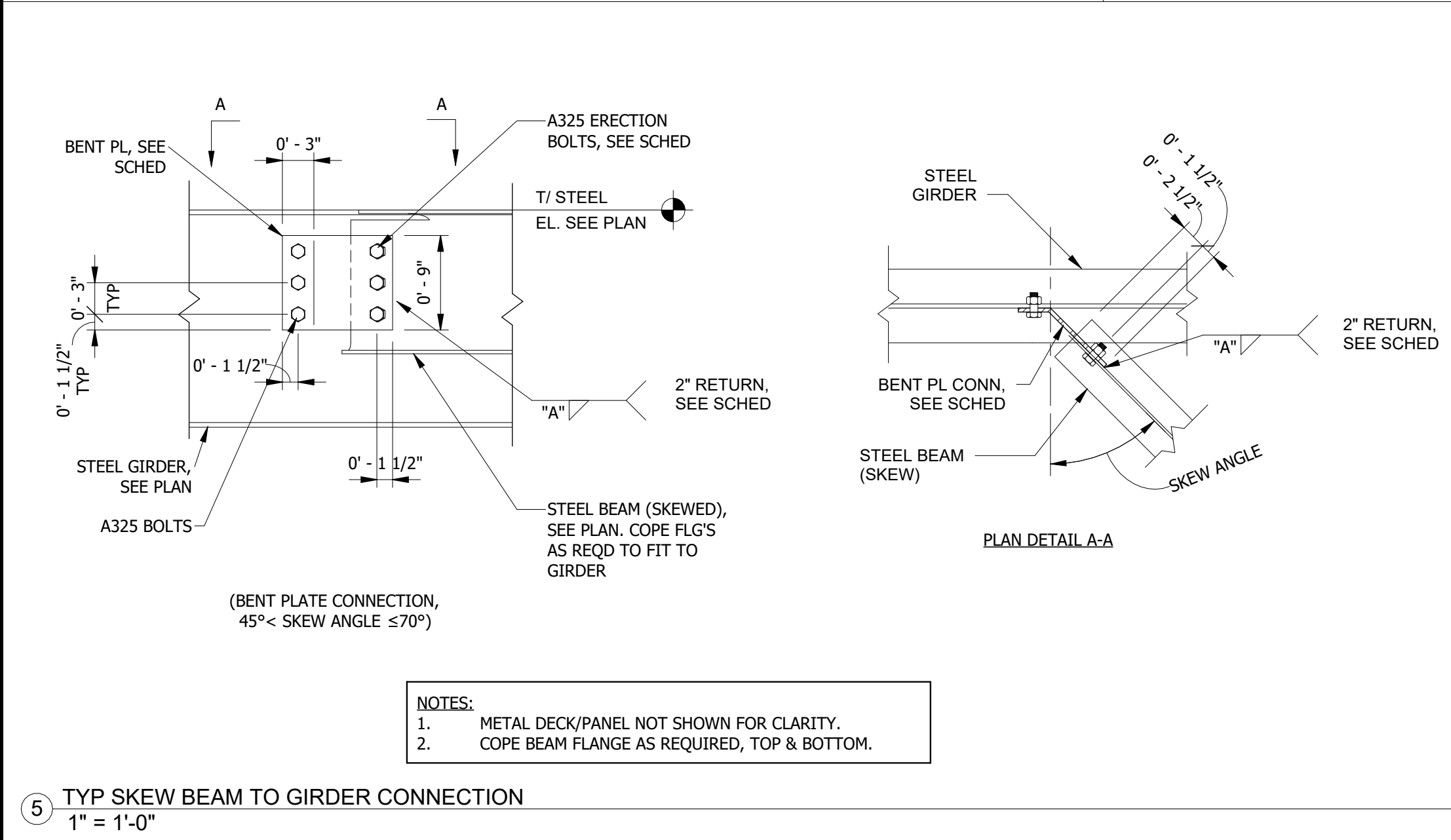
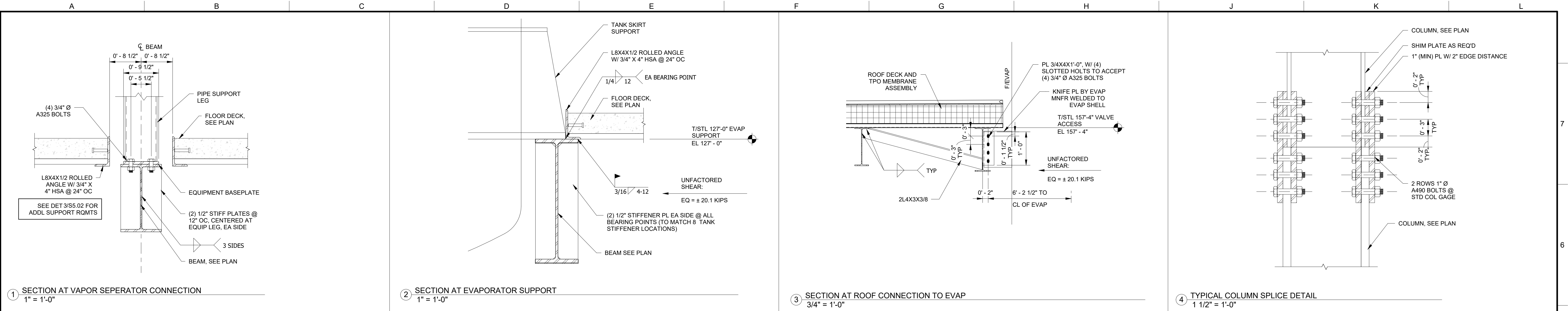


C 2025.06.20 DV OWNER COMMENTS				PRELIMINARY NOT FOR CONSTRUCTION 20 JUNE 2025		4990 Royal Gulf Circle Fort Myers, FL 33966 Ph: 239.768.1778, Fax: 239.210.2168 http://www.veiglobal.com				Title: AMALGAMATED SUGAR COMPANY EVAPORATOR PROJECT STRUCTURAL STEEL FRAMING DETAILS AND SECTIONS		
B 2025.04.25 DV ISSUED FOR BID										Date: 04/11/25 Chkd By: S. WILSON Dsgn By: D. VIELE		Dwg Size: 24X36
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No.	Date	By	Revision	Ad. No.								

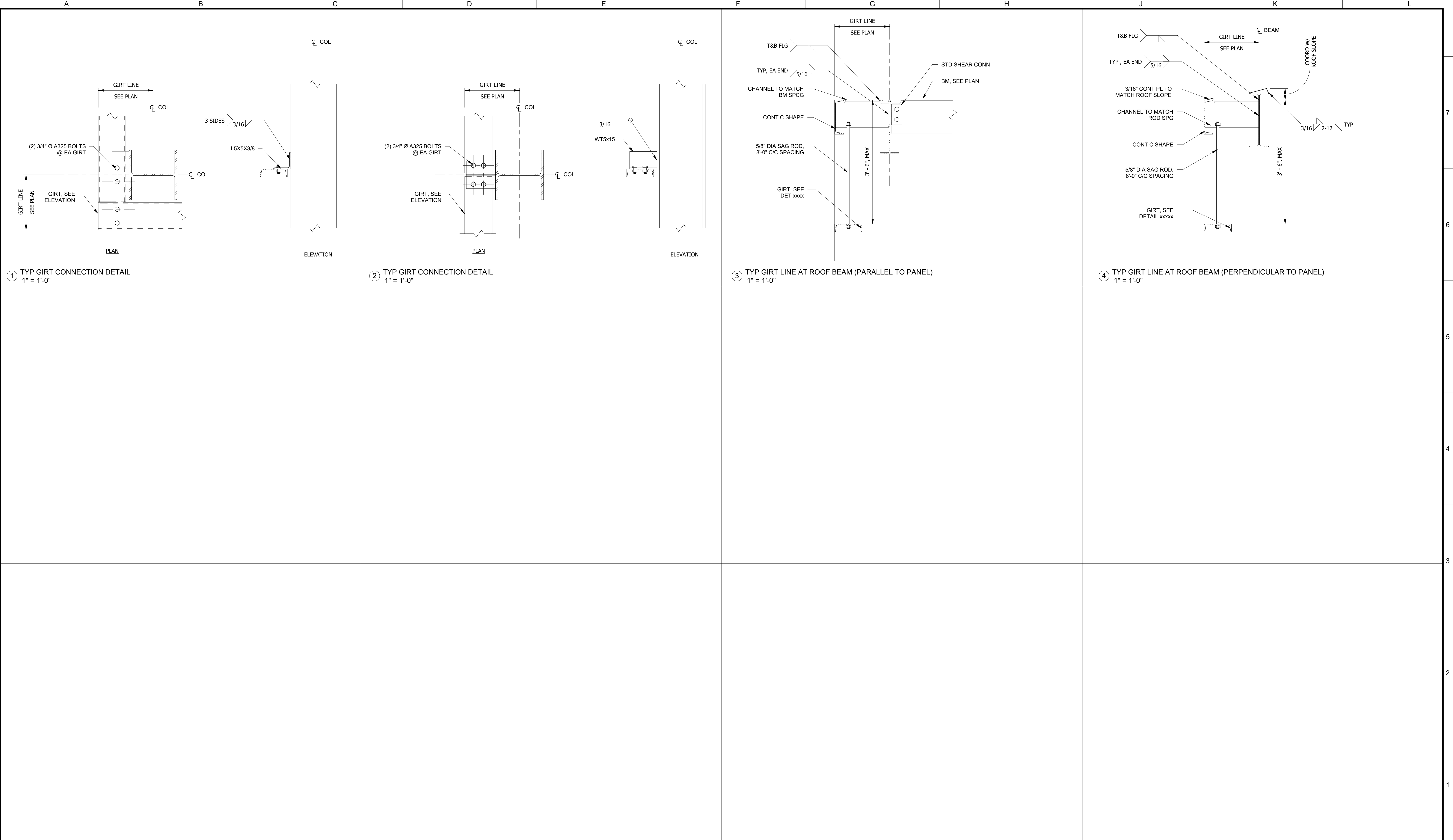
AMALGAMATED SUGAR COMPANY
2320 ORCHARD DRIVE EAST
TWIN FALLS, ID 83301



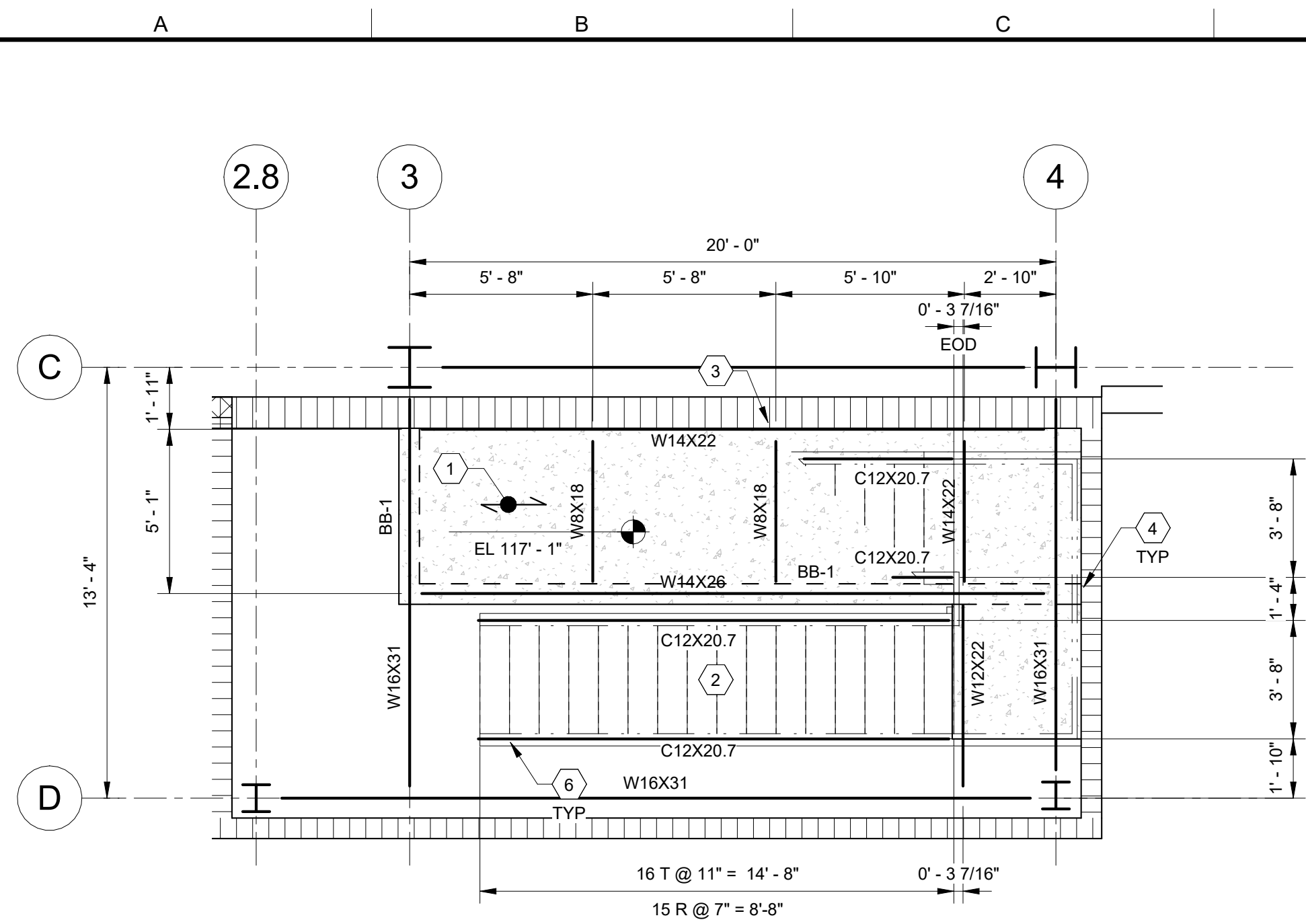
				PRELIMINARY NOT FOR CONSTRUCTION 20 JUNE 2025		4990 Royal Gulf Circle Fort Myers, FL 33966 Ph: 239.768.1778, Fax: 239.210.2168 http://www.veiglobal.com				Title: AMALGAMATED SUGAR COMPANY EVAPORATOR PROJECT STRUCTURAL STEEL FRAMING DETAILS AND SECTIONS		
										Date: 04/11/25 Chkd By: S. WILSON Dsgn By: D. VIELE		Dwg Size: 24X36
										Project: E24140 Dwg: S5.03		Revision:



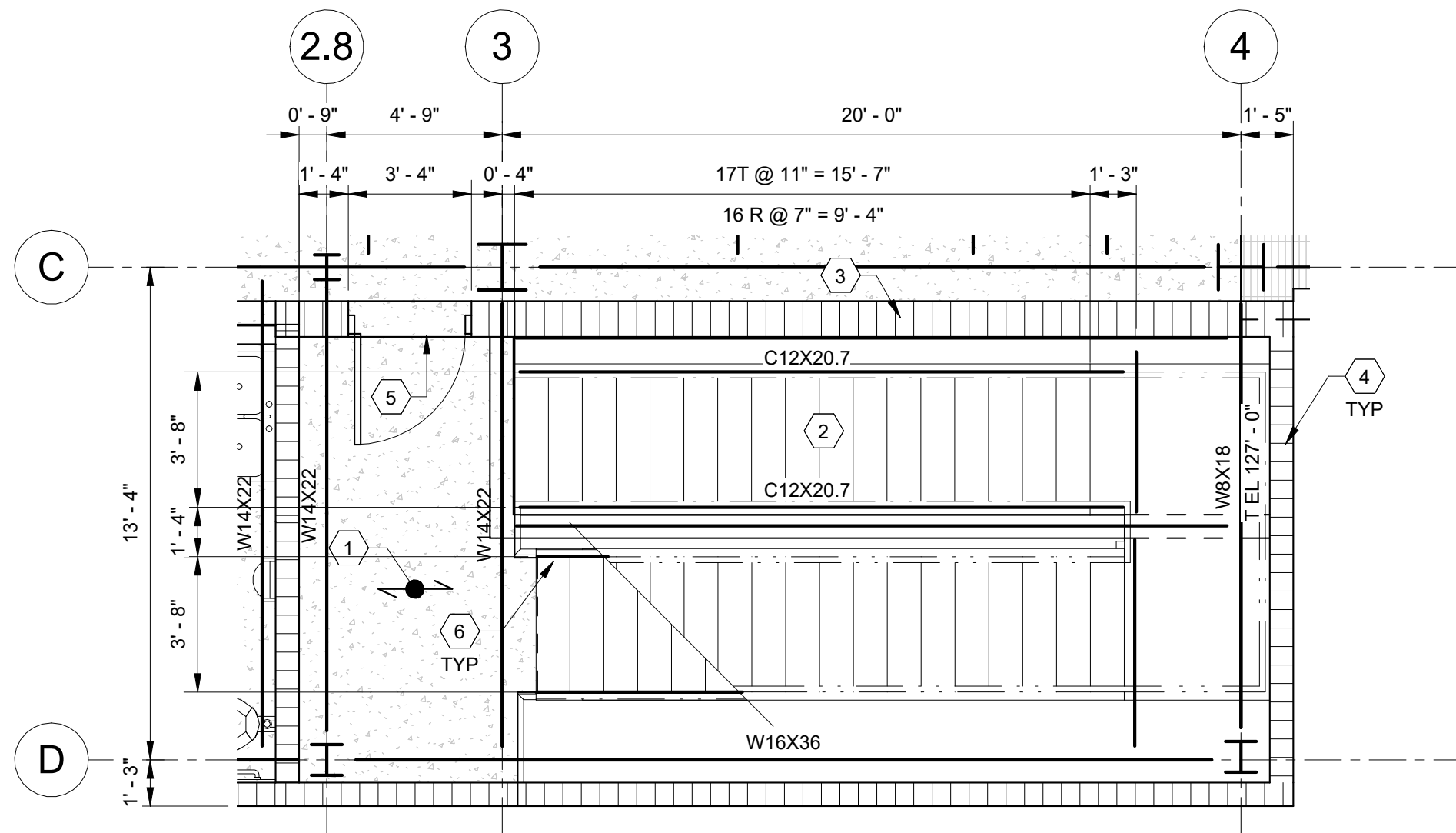
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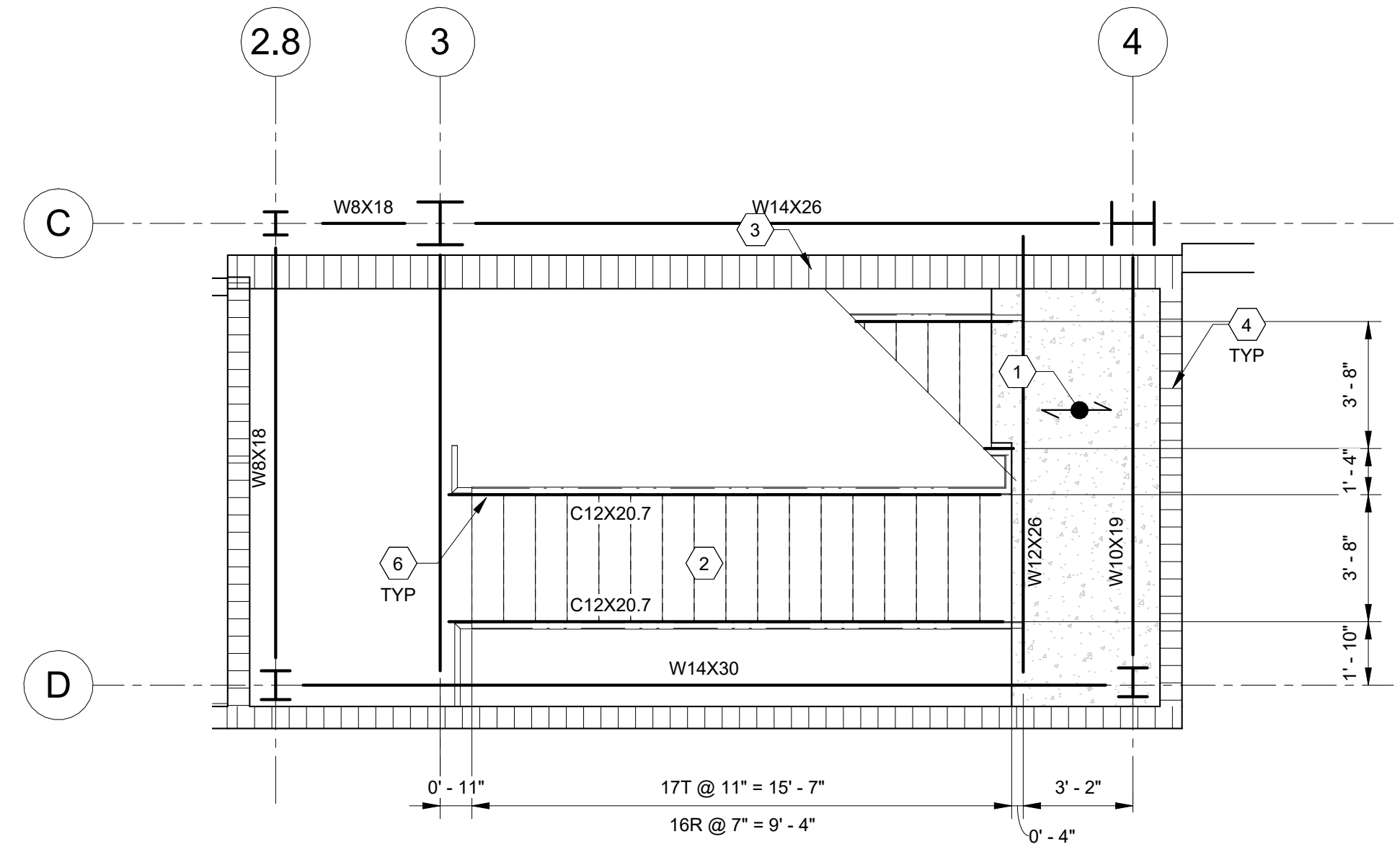
												Title: AMALGAMATED SUGAR COMPANY EVAPORATOR PROJECT STRUCTURAL STEEL FRAMING DETAILS AND SECTIONS			



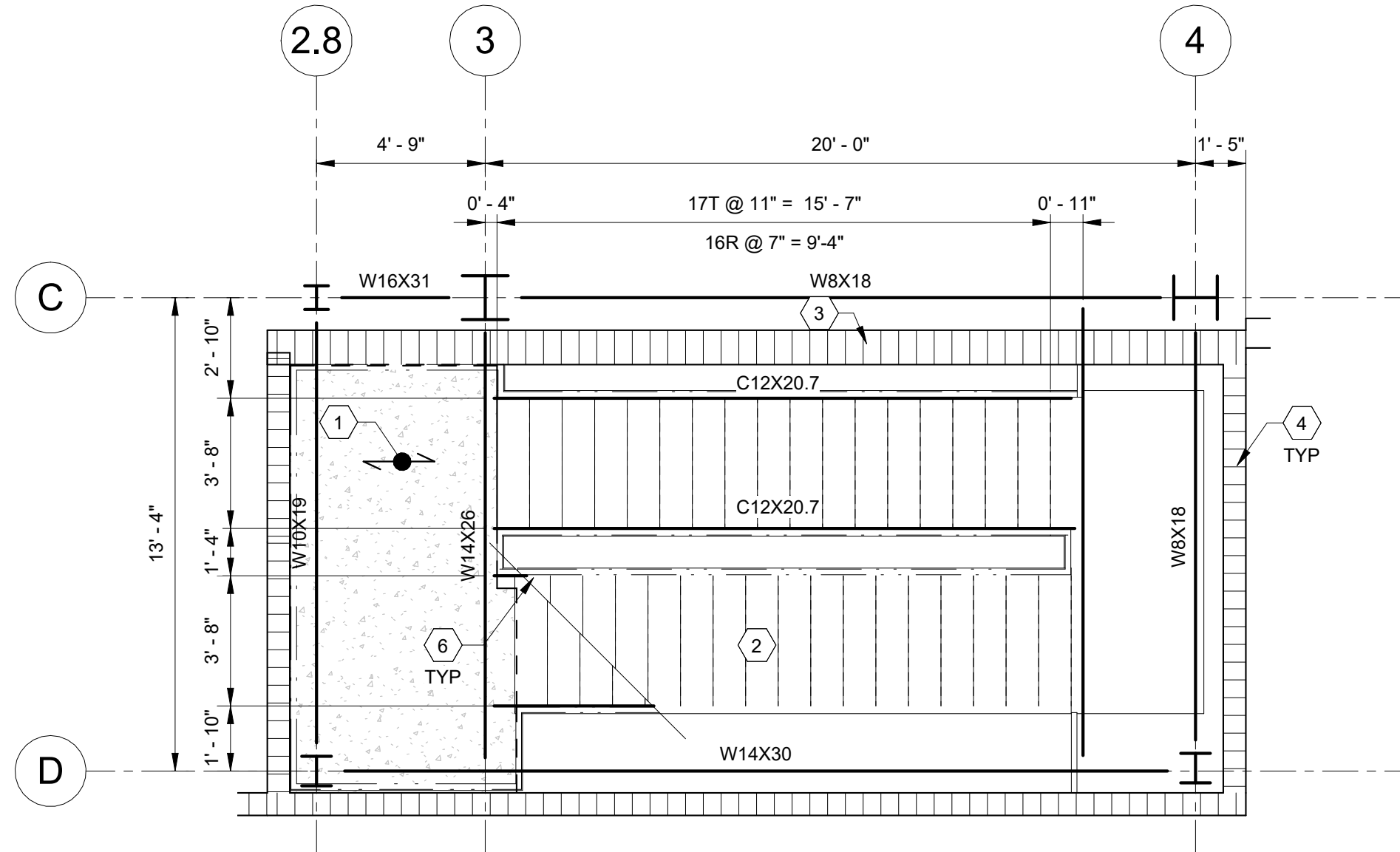
1 T/STL EL 116'-6" ELEC ROOM AND STAIRS
1/4" = 1'-0"



2 STAIR PLAN T/STL EL 127'-0"
1/4" = 1'-0"



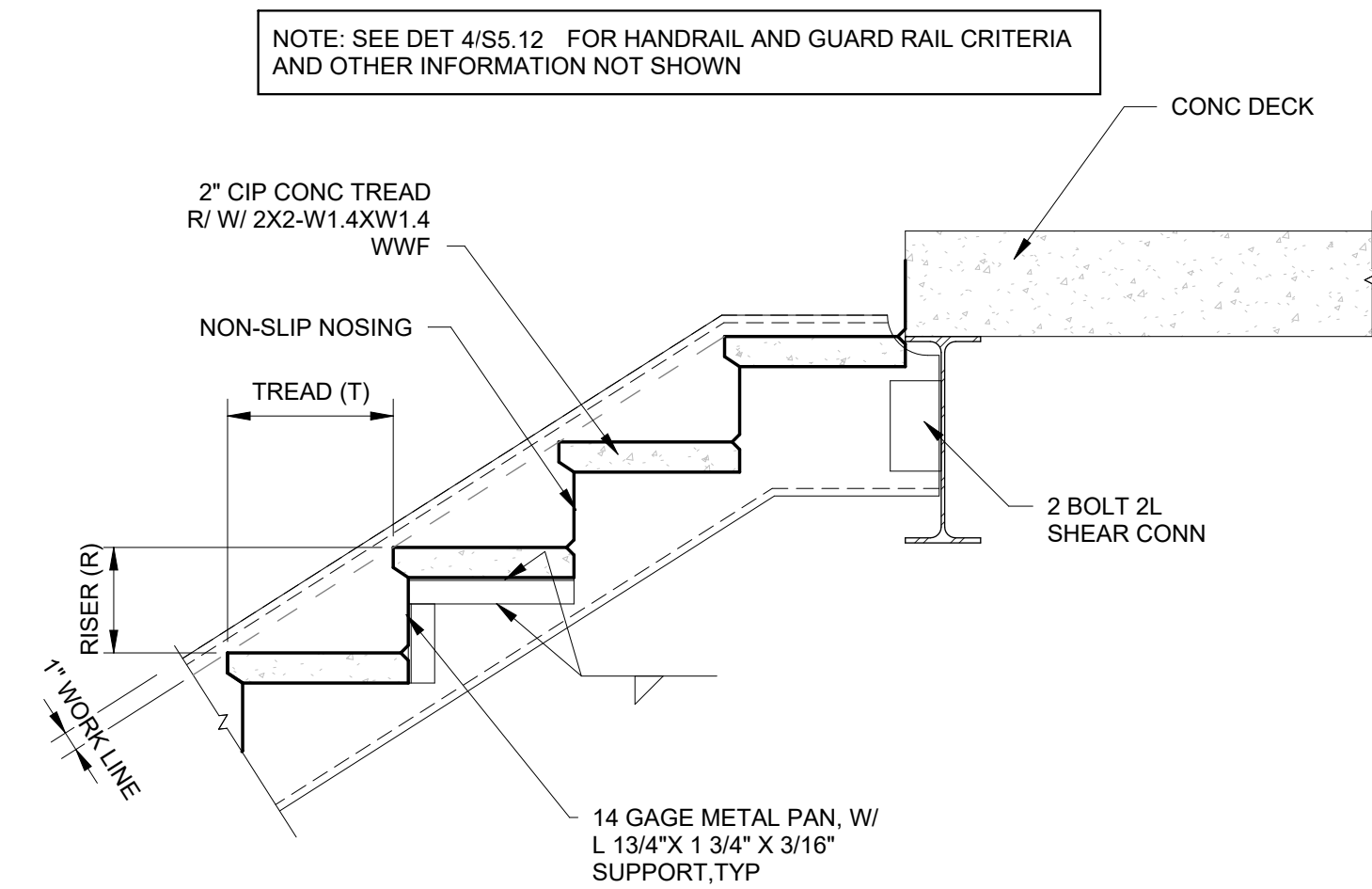
3 T/STL 138'-1 INTERMEDIATE
1/4" = 1'-0"



4 T/STL 148'-0" INTERMEDIATE
1/4" = 1'-0"

KEYNOTE LEGEND

- 5" NORMAL WEIGHT CONC ON 1 1/2", 20 GAGE, TYPE 'VL' DECKING. REOMF W/ #4 @ 12" OC AT MID DEPTH OF SLAB (7" TOTAL THICKNESS). SEE DET 8/S5.03 AND GEN SPEC FOR ATTACHMENT RQMTS.
- METAL PAN STAIRS, SEE DET 5/S5.11
- 12" CMU BLOCK WALL
- 8" CMU BLOCK WALL
- EXIT DOOR, SEE PLAN
- STEEL HANDRAIL
- ADD CONC TOPPING AS REQUIRED TO ATTAIN ROOF ELEVATION AT ENTRANCE AND EXITS.
- METAL BAR GRATING STAIR ASSEMBLY, SEE DET 4/S5.12
- 1 1/2", 20 GAGE, TYPE 'B' ROOF DECK. GALVANIZED G90. ROOFING ASSEMBLY TO CONSIST OF TPO MEMBRANE OVER 1/2" COVER BOARD OVER TAPERED 6" (MIN) INSULATION ON METAL DECK. SEE DET 8/S5.03 FOR FASTENING RQMTS.



5 CONCRETE-METAL PAN TREAD
1" = 1'-0"

No.	Date	By	Revision	Ad. No.
C	2025.06.20	DV	OWNER COMMENTS	
B	2025.04.25	DV	ISSUED FOR BID	
A	2025.04.11	DV	ISSUED FOR APPROVAL (70% CHECKSET)	

PRELIMINARY
NOT FOR
CONSTRUCTION
20 JUNE 2025

4990 Royal Gulf Circle
Fort Myers, FL 33966
Ph: 239.768.1778, Fax: 239.210.2168
http://www.veiglobal.com



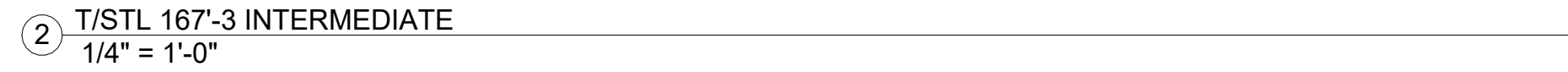
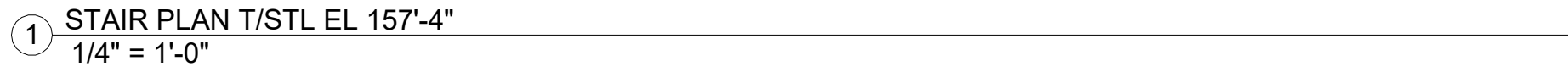
Title: AMALGAMATED SUGAR COMPANY EVAPORATOR PROJECT
STAIR DIAGRAMS AND DETAILS



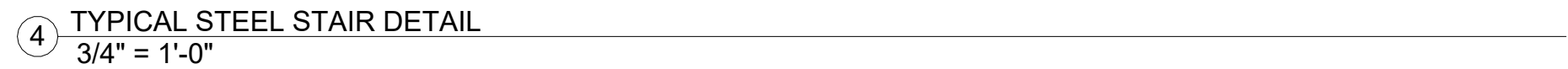
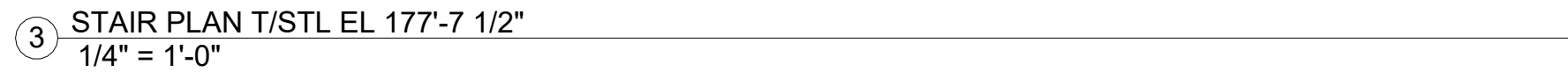
AMALGAMATED SUGAR COMPANY
2320 ORCHARD DRIVE EAST
TWIN FALLS, ID 83301

Date: 04/11/25
Chkd By: S. WILSON
Dsgn By: D. VIELE
Project: E24140
Dwg: S5.11

Dwg Size: 24X36
Revision: 1
C:\Users\dviele\Documents\E24140 ASC Evaporator STR R25 backup_dviele@veiglobal.com.rvt



1. 5" NORMAL WEIGHT CONC ON 1 1/2", 20 GAGE, TYPE 'VL' DECKING. REOMF W/ #4 @ 12" OC AT MID DEPTH OF SLAB (7" TOTAL THICKNESS). SEE DET 8/S5.03 AND GEN SPEC FOR ATTACHMENT RQMTS.
2. METAL PAN STAIRS. SEE DET 5/S5.11
3. 12" CMU BLOCK WALL
4. 8" CMU BLOCK WALL
5. EXIT DOOR, SEE PLAN
6. STEEL HANDRAIL
7. ADD CONC TOPPING AS REQUIRED TO ATTAIN ROOF ELEVATION AT ENTRANCE AND EXITS.
8. METAL BAR GRATING STAIR ASSEMBLY, SEE DET 4/S5.12
9. 1 1/2", 20 GAGE, TYPE 'B' ROOF DECK. GALVANIZED G90. ROOFING ASSEMBLY TO CONSIST OF TWO MEMBRANE OVER 1/2" COVER BOARD OVER TAPERED 6" (MIN) INSULATION ON METAL DECK. SEE DET 8/S5.03 FOR FASTENING RQMTS.



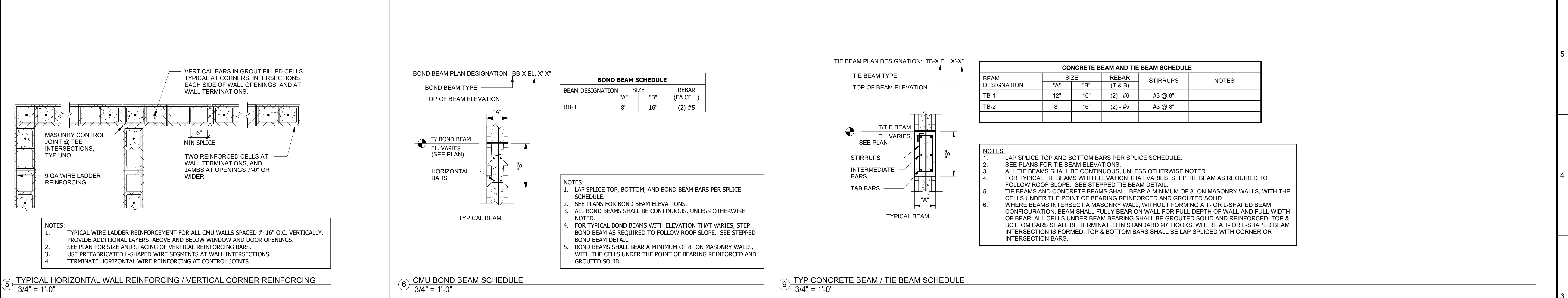
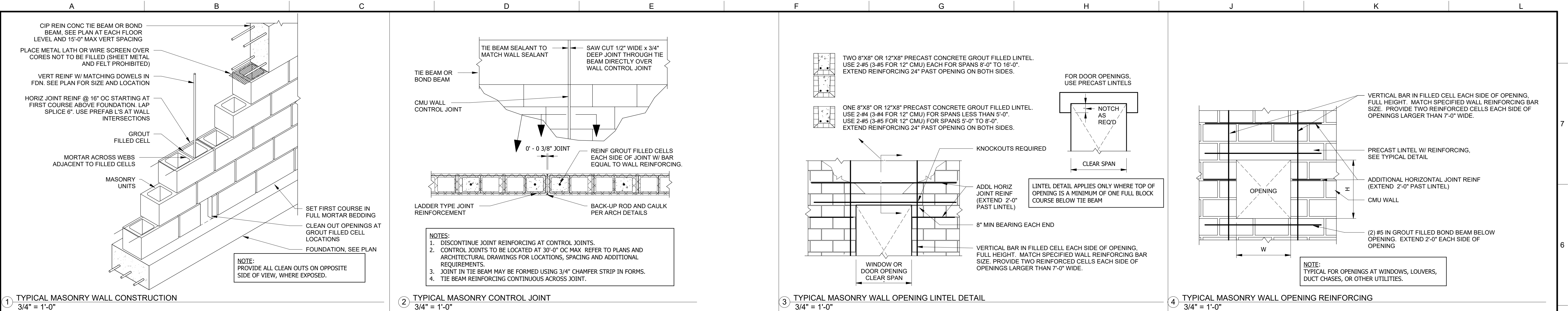
**PRELIMINARY
NOT FOR
CONSTRUCTION
20 JUNE 2025**

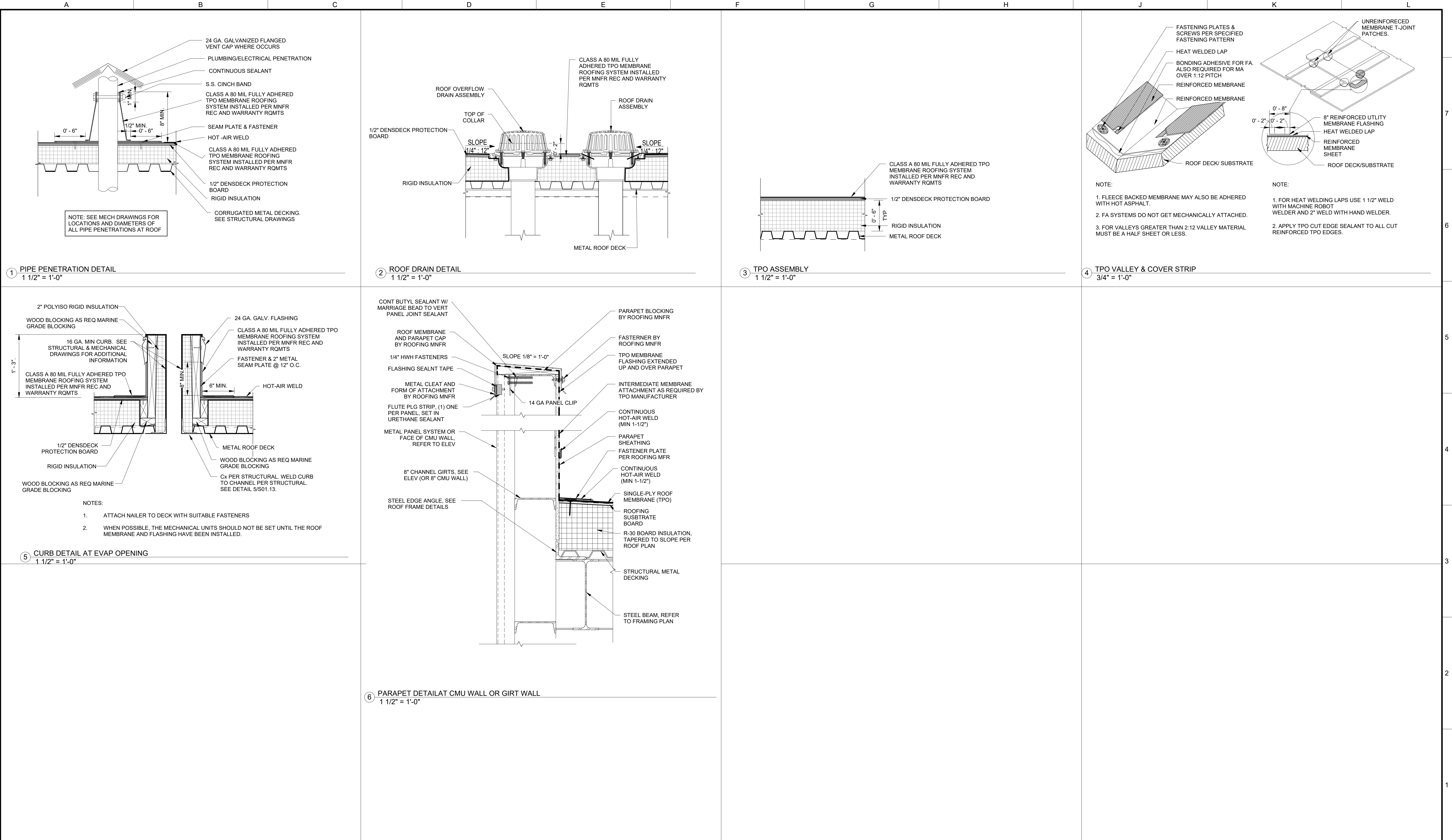


Amalgamated
Sugar

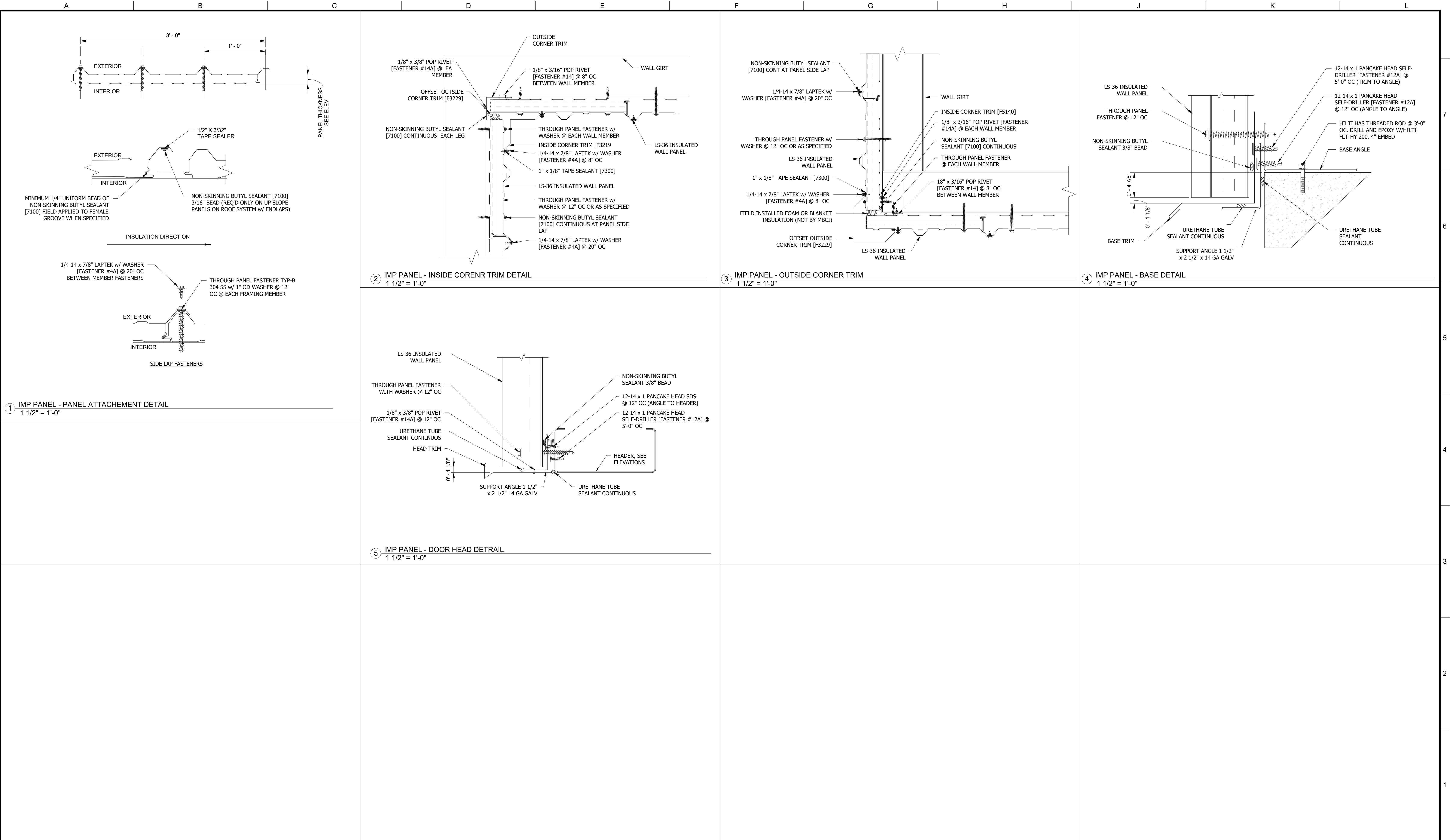
Date: 04/11/25
Chkd By: S. WILSON
Dsgn By: D. VIELE

Project:	E24140	Revision:
Dwg:	S5.12	





				PRELIMINARY NOT FOR CONSTRUCTION 20 JUNE 2025		4990 Royal Gulf Circle Fort Myers, FL 33966 Ph: 239.768.1778, Fax: 239.210.2168 http://www.veiglobal.com				Title: AMALGAMATED SUGAR COMPANY EVAPORATOR PROJECT ROOFING AND PARAPET DETAILS	
C	2025.06.20	DV	OWNER COMMENTS								
B	2025.04.25	DV	ISSUED FOR BID								
A	2025.04.11	DV	ISSUED FOR APPROVAL (70% CHECKSET)								
No.	Date	By		Revision		Ad. No.					
										Date: 04/11/25 Chkd By: S. WILSON Dsgn By: D. VIELE	
										Project: E24140 Dwg: S7.01	
										Region:	



C	2025.06.20	DV	OWNER COMMENTS		
B	2025.04.25	DV	ISSUED FOR BID		
A	2025.04.11	DV	ISSUED FOR APPROVAL (70% CHECKSET)		
No.	Date	By	Revision	Ad. No.	

PRELIMINARY
NOT FOR
CONSTRUCTION
20 JUNE 2025

4990 Royal Gulf Circle
Fort Myers, FL 33966
Ph: 239.768.1778, Fax: 239.210.2168
<http://www.veiglobal.com>



Title: AMALGAMATED SUGAR COMPANY EVAPORATOR PROJECT
WALL PANEL DETAILS



AMALGAMATED SUGAR COMPANY
2320 ORCHARD DRIVE EAST
TWIN FALLS, ID 83301

Date: 04/11/25
Chkd By: S. WILSON
Dsgn By: D. VIELE

Project: E24140
Dwg: S7.02

Dwg Size:
24X36

Revision:
C

