

AMALGAMATED SUGAR COMPANY TWIN FALLS FACTORY THIN JUICE EVAPORATOR PROJECT VEI PROJECT # E24140



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E24140.D03 - INSTRUMENTATION AND CONTROLS - LEGEND SHEET

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E24140M68 - MECHANICAL PIPE SUPPORT DETAILS SHEET 4
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PIPING & INSTRUMENTATION DIAGRAM DRAWING SHEET INDEX

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E24140.5066-10T - P&ID - 1st EFFECT EVAPORATOR PIPING AND INSTRUMENTATION DIAGRAM
E24140.5066-11T - P&ID - 2nd EFFECT EVAPORATOR PIPING AND INSTRUMENTATION DIAGRAM

(138) 11x 17 ISO DRAWINGS

INSTRUMENT AIR LINE (SIGNAL TRANSMISSION)	
ELECTRIC LEAD	
INSTRUMENT CAPILLARY OR FIELD SYSTEM	
SOFTWARE CONNECTION	
FILLED CAPILLARY TUBING	
GUIDED ELECTROMAGNETIC SIGNAL	
UNGUIDED ELECTROMAGNETIC SIGNAL	
MECHANICAL LINK	

	DISCRETE	ANALOG
INPUT ONLY		
OUTPUT ONLY		
INPUT AND OUTPUT		
HARDWARE INTERLOCK OR SOFTWARE INTERNAL LOGIC		

 CONTROL FUNCTION POINT
I=INTERLOCK & LOGICAL
AND/OR

L LOW, SET POINT VALUE

0 OPEN

+ INCRE

Ø	MINIMUM, SET POINT VALUE
---	--------------------------

UA	ANNUNCIATED ALARM	TW	THERMOWELL
MVE	AMPLIFIER (AUXILIARY)	LQ	FLOW INTEGRATOR & TOTALIZER
MVI	AMPLIFIER (AUXILIARY)	FG	GAUGE GLASS
E/I	AMPLIFIER (AUXILIARY)	PG	PRESSURE GAGE
I/I	AMPLIFIER (ISOLATION)	TG	TEMPERATURE GAGE
E/E	AMPLIFIER (ISOLATION)	ZSO	POSITION SWITCH OPEN
I/P	CONTROL VALVE TRANSDUCER	ZSC	POSITION SWITCH CLOSED
UY	COMPUTER	REV	REVERSE ACTING
TJI	MULTIPOINT TEMPERATURE INDICATOR	ADAPT	ADAPTIVE CONTROL MODE
TJR	MULTIPOINT TEMPERATURE RECORDER	IAS	INSTRUMENT AIR SUPPLY
PSV	RELIEF VALVE	AVG	AVERAGE
FO	RESTRICTION ORIFICE	DIFF	SUBTRACT
PSE	RUPTURE DISK	DIR	DIRECT ACTING
PLC	PROGRAMMABLE LOGIC CONTROLLER	OPT	OPTIMIZING CONTROL MODE
MPU	MICROPROCESSOR UNIT	CPU	COMPUTER PROCESSING UNIT
ESD	EMERGENCY SHUT DOWN	CDU	COMPUTER DISPLAY UNIT
GS	GAS SUPPLY	VSD	VARIABLE SPEED DRIVE
NS	NITROGEN SUPPLY	TX	RF TRANSMITTER OR RECEIVER
O	ELECTROMAGNETIC SIGNAL, SONIC, ETC.	VFD	VARIABLE FREQUENCY DRIVE
HOA	HAND/OFF/AUTO	MTR	MOTOR
SV	SOLENOID VALVE		

XXXX XXXX XXXX
XXXX
XXXX

FIELD 1 FIELD 2

FIELD 1: INSTRUMENT IDENTIFICATION
FIELD 2: INSTRUMENT ADDRESS (ASSIGNED BY ACS)
SEE TABLES

SYMBOL CATEGORY	LOCALLY FIELD MOUNTED	PANEL MOUNTED	AUXILIARY MOUNTED	BEHIND THE PANEL OR NORMALLY INACCESSIBLE DEVICES
INSTRUMENT SYMBOLS				
PLC SYMBOLS I/O				
SHARED DISPLAY (DCS) I/O				

FIRST LETTERED		SUCCEEDING-LETTERS			
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM		AUTOMATIC
B	FAILURE DEVICE BURNER, COMBUSTION		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
C	USER'S CHOICE CONDUCTIVITY			CONTROL	
D	USER'S CHOICE DENSITY	PANEL DIFFERENTIAL			
E	VOLTAGE, EMERGENCY		SENSOR (PRIMARY) ELEMENT		
F	FLOW RATE	RATIO FRACTION		FILLED	FORWARD
G	USER'S CHOICE (1) GAUGING (25)		GLASS, VIEWING DEVICE		
H	HAND, MANUAL				HIGH
I	CURRENT ELECTRICAL		INDICATE		INTERLOCK
J	POWER, WATTS, KVA	SCAN			
K	TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL, LOCAL	LIQUID	LIGHT		LOW (7,15,16)
M	USER'S CHOICE (1) MOISTURE (26), HUMIDITY	MOMENTARY			MIDDLE, INTERMEDIATE (7,15), MOTOR
N	USER'S CHOICE MOTOR. (27)		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
O	USER'S CHOICE		ORIFICE, RESTRICTION		OFF, OPERATOR
P	PRESSURE, VACUUM, PURGE	P(PH)	POINT (TEST) CONNECTION		
Q	QUANTITY, COUNT	INTEGRATE, TOTALIZE (4)			
R	RADIATION, RESET		RECORD		REVERSE
S	SPEED, SOLENOID	SAFETY	STOP	SWITCH	STATION
T	TEMPERATURE			TRANSMIT	
U	UNIT, MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V	VIBRATION, MECHANICAL ANALYSIS	VISCOSITY		VALVE, DAMPER,	
W	WEIGHT, FORCE		WELL		
X	SEQUENCE	X AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
Y	PANEL	CONTROLLER, Y AXIS, ACTUATOR		RELAY, COMPUTE, CONVERT, RATIO	
Z	POSITION, DIMENSION	Z AXIS		DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT	

B	2025.06.23	MLW		ISSUE FOR BID	-
A	2025.05.16	MLW		ISSUE FOR BID	-
No.	Date	By		Revision	Ad. No.

PRELIMINARY
NOT FOR
CONSTRUCTION
2025.06.23

One Galleria Blvd. Suite 1900
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www.veiglobal.com



Title:	AMALGAMATED SUGAR COMPANY THIN JUICE EVAPORATOR PROJECT INSTRUMENTATION AND CONTROLS LEGEND SHEET
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AMALGAMATED SUGAR COMPANY
2320 ORCHARD DRIVE EAST
TWIN FALLS, IDAHO 83301

Date: 2025.05.02

Chkd By: SC
Dsgn By: MLW

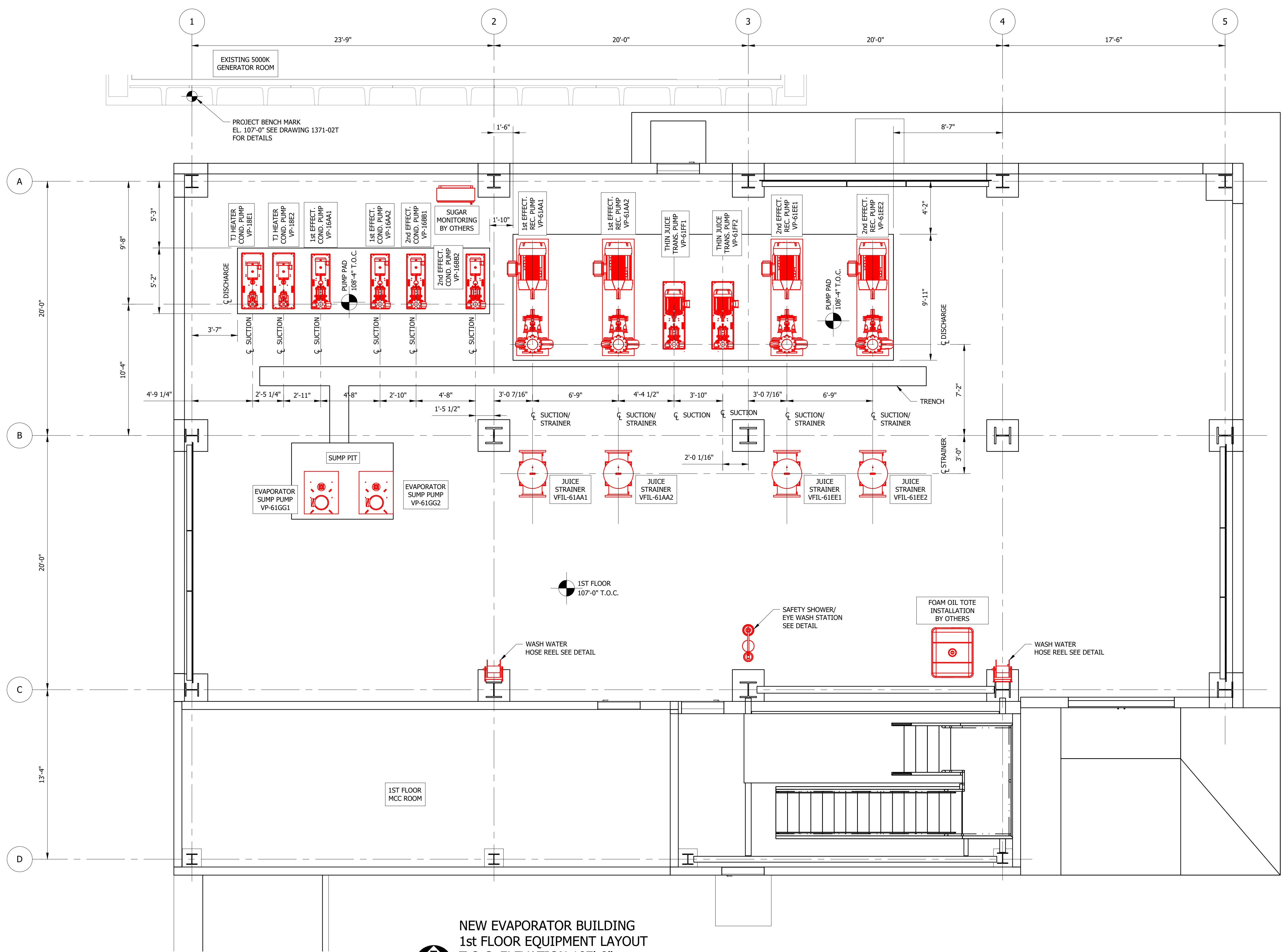
Project:

Dwg:

Dwg Size:

24x36

Revision:
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- GENERAL CONSTRUCTION NOTES:
- REFER TO DRAWING SHEET E24140.D02
- CONSTRUCTION NOTES:
- REFER TO DRAWING E24140.D01 FOR DRAWING REGISTER.
 - REFER TO STRUCTURAL DRAWING E24140.S0.00 FOR ANCHOR DETAILS AND STRUCTURAL DETAILS.
 - CONTRACTOR SHALL INSTALL (4) RECIRCULATION PUMPS. TOP OF CONCRETE BASE IS EL. 108'-4". PUMP SUCTION CENTERLINE IS EL. 110'-6". GROUT AS REQ'D WITH NON-SHRINK GROUT.
 - CONTRACTOR SHALL INSTALL (2) TRANSFER PUMPS. TOP OF CONCRETE BASE IS EL. 108'-4". PUMP SUCTION CENTERLINE IS EL. 109'-7". GROUT AS REQ'D WITH NON-SHRINK GROUT.
 - CONTRACTOR SHALL INSTALL (4) 1st & 2nd CONDENSATE PUMPS. TOP OF CONCRETE BASE IS EL. 108'-4". PUMP SUCTION CENTERLINE IS EL. 109'-7". GROUT AS REQ'D WITH NON-SHRINK GROUT.
 - CONTRACTOR SHALL INSTALL (2) TJ HEATER CONDENSATE PUMPS. TOP OF CONCRETE BASE IS EL. 108'-4". PUMP SUCTION CENTERLINE IS EL. 109'-2 1/4". GROUT AS REQ'D WITH NON-SHRINK GROUT.
 - CONTRACTOR SHALL INSTALL (4) JUICE STRAINERS. FILTER INLET CENTERLINE IS EL. 110'-8 3/4". GROUT AS REQ'D WITH NON-SHRINK GROUT.
 - CONTRACTOR SHALL INSTALL (2) SUMP PUMPS WILL BE ATTACHED TO THE TOP OF THE SUMP PIT LID.
 - CONTRACTOR SHALL INSTALL (1) SAFETY SHOWER/EYE WASH STATION NEAR COLUMN ROW "3" AND "C" ANCHOR TO CONCRETE FLOOR.
 - CONTRACTOR SHALL INSTALL (2) WASH WATER REELS TO BUILDING COLUMN PER DETAIL.
 - SEE EQUIPMENT LIST TO VERIFY WHO IS SUPPLIER OF EQUIPMENT.

NEW EVAPORATOR BUILDING
1st FLOOR EQUIPMENT LAYOUT
T.O.C. ELEVATION 107'-0"
SCALE: 1/4"=1'-0"

LINE LEGEND

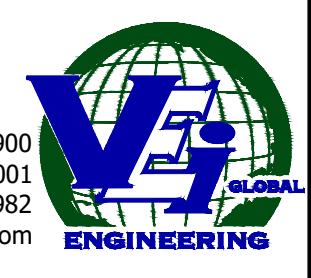
NEW
EXIST

No.	Date	By	Revision
C	2025.06.23	MLW	ISSUE FOR BID
B	2025.05.16	MLW	ISSUE FOR APPROVAL
A	2025.04.02	MLW	ISSUE FOR APPROVAL

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2025.06.23

VEI Project No: E24140

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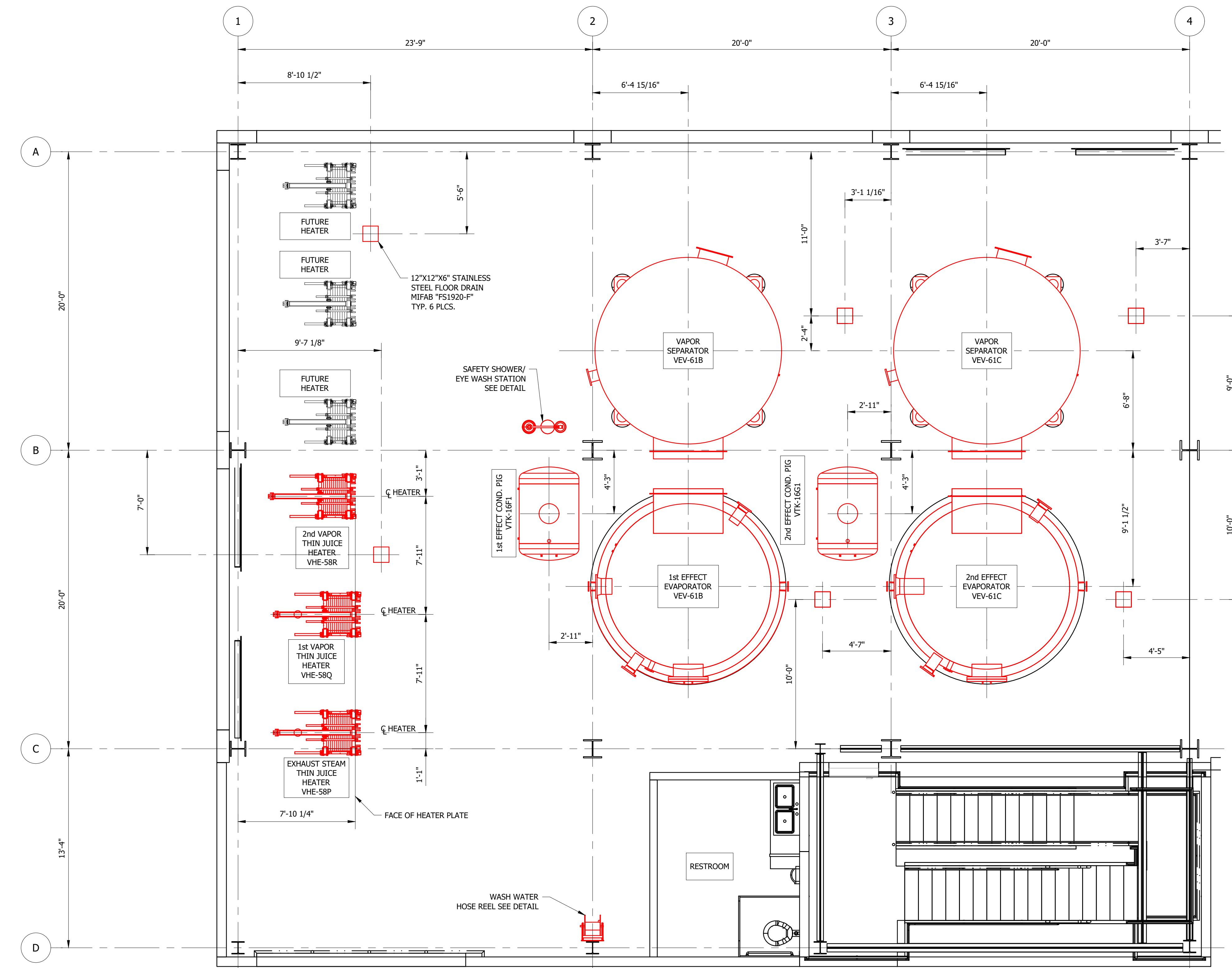
Title: AMALGAMATED SUGAR COMPANY
THIN JUICE EVAPORATOR PROJECT
MECHANICAL EQUIPMENT LAYOUT 1st FLOOR

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

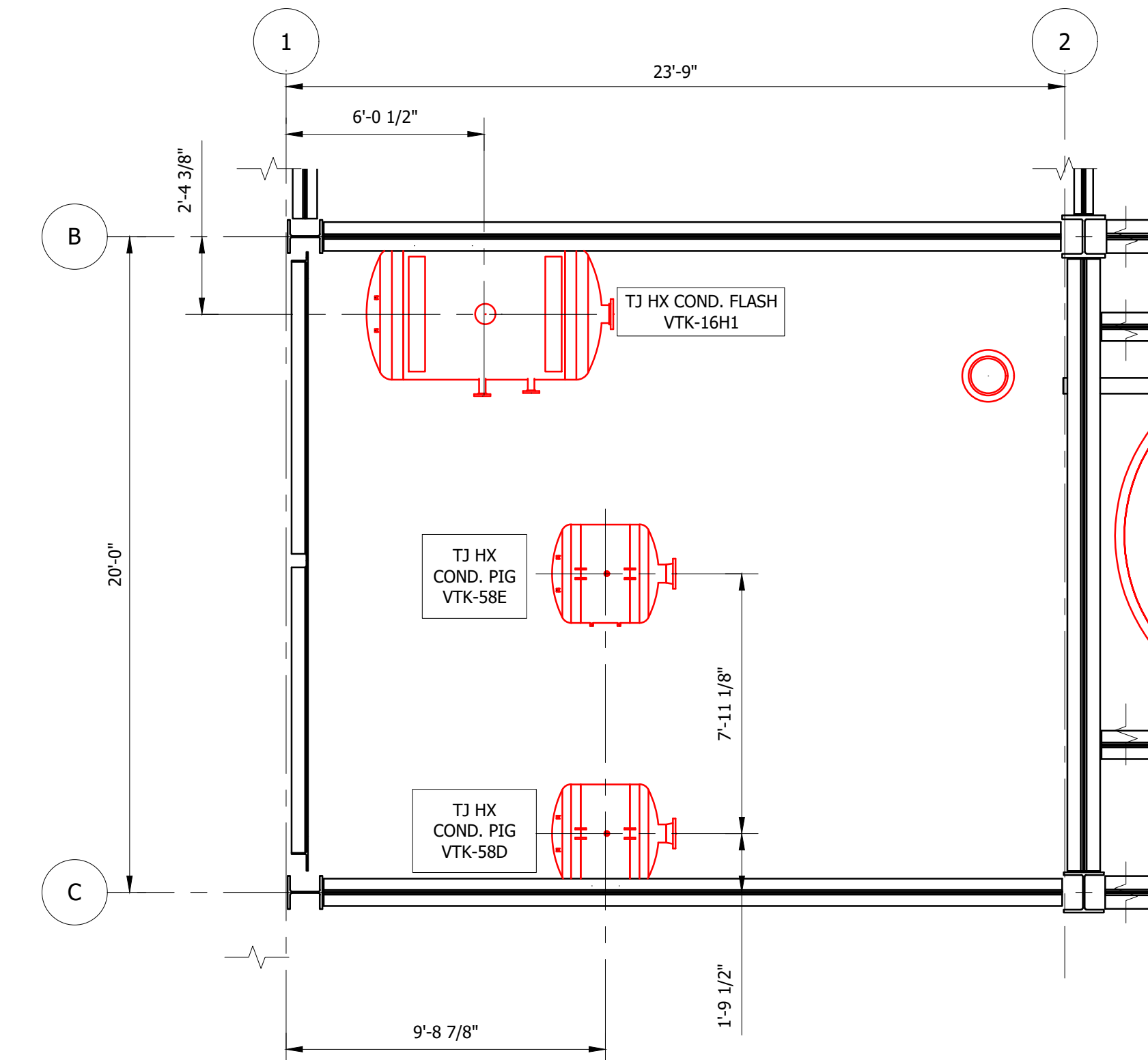
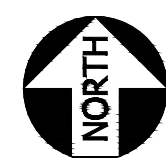
Date:	2025.03.31	Dwg. No:	24136
Chkd By:	SC	Revised:	
Dsgn By:	MLW		
Project:			
Dwg:			

E
101

A B C D E F G H J K L



NEW EVAPORATOR BUILDING
2nd FLOOR EQUIPMENT LAYOUT
T.O.C. ELEVATION 127'-7"
SCALE: 1/4"=1'-0"



NEW EVAPORATOR BUILDING
PARTIAL EQUIPMENT LAYOUT
ELEVATION 125'-3"
SCALE: 1/4"=1'-0"



GENERAL CONSTRUCTION NOTES:
REFER TO DRAWING SHEET E24140.D02

CONSTRUCTION NOTES:

- REFER TO DRAWING E24140.D01 FOR DRAWING REGISTER.
- REFER TO STRUCTURAL DRAWING E24140.S0.00 FOR ANCHOR DETAILS AND STRUCTURAL DETAILS.
- CONTRACTOR SHALL INSTALL (3) THIN JUICE HEATERS. TOP OF CONCRETE EL. 127'-7". NOZZLE S2 AND S3 ELEVATION EL. 128'-9 1/2". GROUT AS REQ'D WITH NON-SHRINK GROUT.
- DURING BUILDING CONSTRUCTION, BUILDING CONTRACTOR WILL INSTALL EVAPS & VAPOR SEPARATORS. CONTRACTOR SHALL INSTALL (2) EVAPORATOR CONDENSATE PIGS. TOP OF CONCRETE EL. 127'-7". CENTER LINE OF PIG EL. 129'-7". GROUT AS REQ'D WITH NON-SHRINK GROUT.
- CONTRACTOR SHALL INSTALL (2) TJ HEATERS CONDENSATE PIGS. TOP OF CONCRETE EL. 127'-7". CENTER LINE OF PIG EL. 123'-5 1/2", BOTTOM OF STEEL ELEVATION 125'-11 3/4".
- CONTRACTOR SHALL INSTALL (1) TJ HEATERS CONDENSATE FLASH TANK. TOP OF CONCRETE EL. 127'-7". CENTER LINE OF PIG EL. 121'-4", BOTTOM OF STEEL ELEVATION 125'-11 3/4".

LINE LEGEND

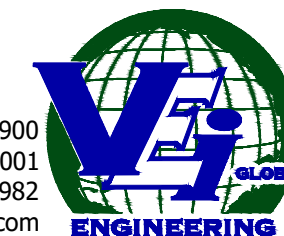
NEW
EXIST

No.	Date	By	Revision
C	2025.06.23	-	ISSUE FOR BID
B	2025.05.16	MLW	ISSUE FOR APPROVAL
A	2025.04.02	MLW	ISSUE FOR APPROVAL

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2025/06/23

VEI Project No: E24140

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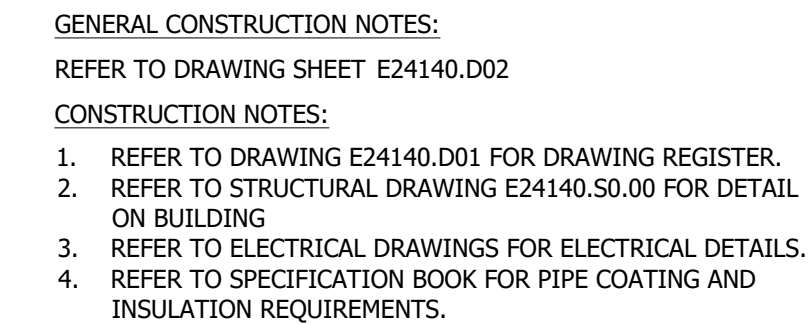


Title:
AMALGAMATED SUGAR COMPANY
THIN JUICE EVAPORATOR PROJECT
MECHANICAL EQUIPMENT LAYOUT 2ND FLOOR

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

Date: 2025.03.31
Chkd By: SC
Dsgn By: MLW
Project:
Dwg:

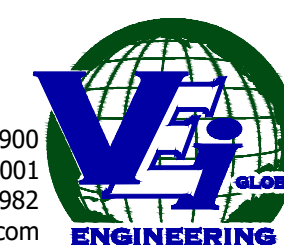
Dwg Set:
24/36
Revision:
B
L02



NEW ☒
EXIST ☐

PRELIMINARY
NOT FOR
CONSTRUCTION
2025/06/23

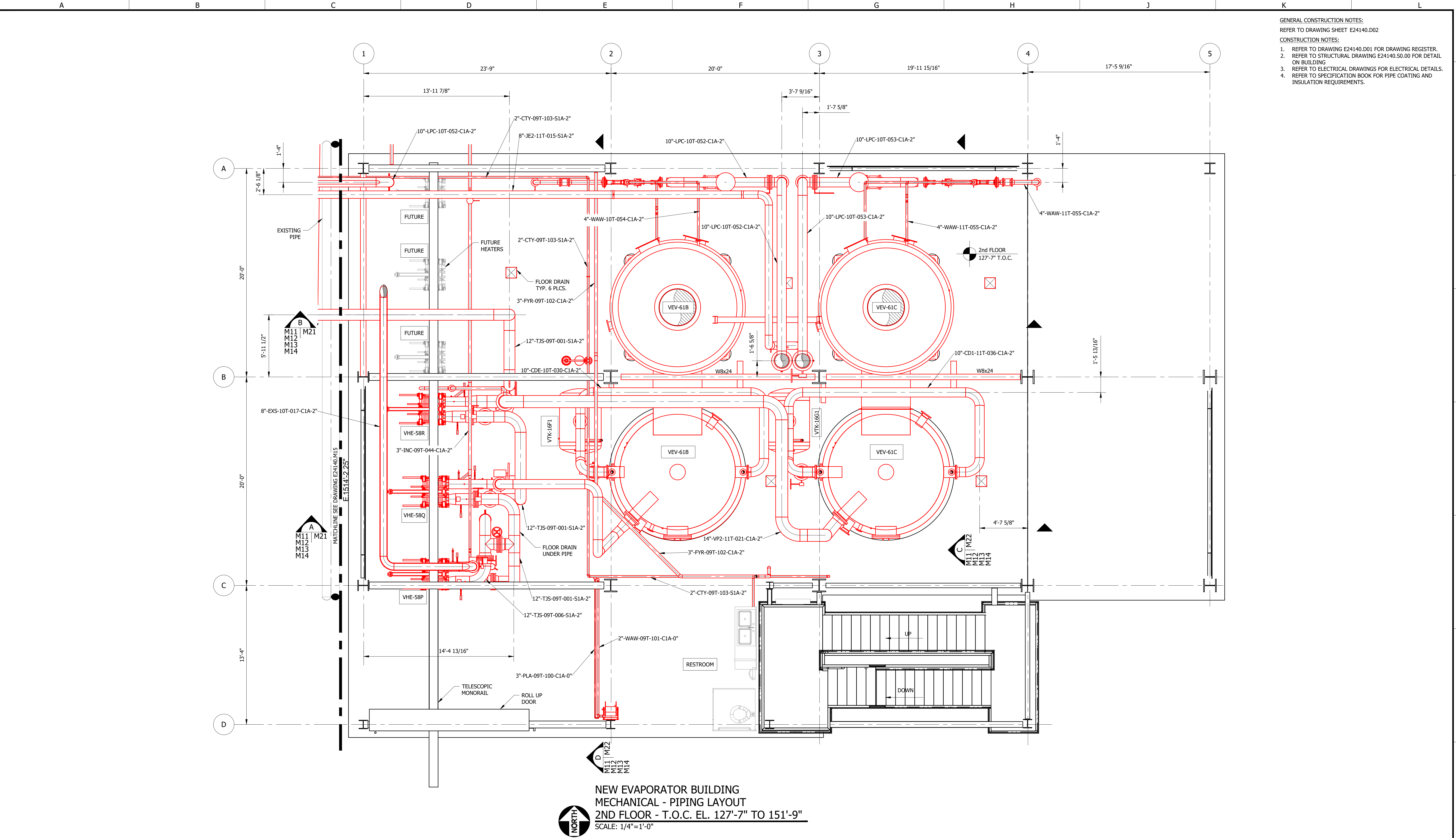
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Amalgamated
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Date:	2025.05.07
Chkd By:	SC
Dsgn By:	MLW
Project:	
Dwg:	

Dwg Size:	24x36
Revision:	



- GENERAL CONSTRUCTION NOTES:
REFER TO DRAWING SHEET E24140.D02
- CONSTRUCTION NOTES:
1. REFER TO DRAWING E24140.D01 FOR DRAWING REGISTER.
 2. REFER TO STRUCTURAL DRAWING E24140.S0.00 FOR DETAIL ON BUILDING
 3. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL DETAILS.
 4. REFER TO SPECIFICATION BOOK FOR PIPE COATING AND INSULATION REQUIREMENTS.

NEW EVAPORATOR BUILDING
MECHANICAL - PIPING LAYOUT
2ND FLOOR - T.O.C. EL. 127'-7" TO 151'-9"
SCALE: 1/4"=1'-0"

LINE LEGEND

NEW ———

EXIST - - -

B	2025.06.23	MLW	ISSUE FOR BID		
A	2025.05.16	MLW	ISSUE FOR APPROVAL		
No.	Date	By	Revision		

PRELIMINARY
NOT FOR
CONSTRUCTION
2025/06/23

VEI Project No: E24140

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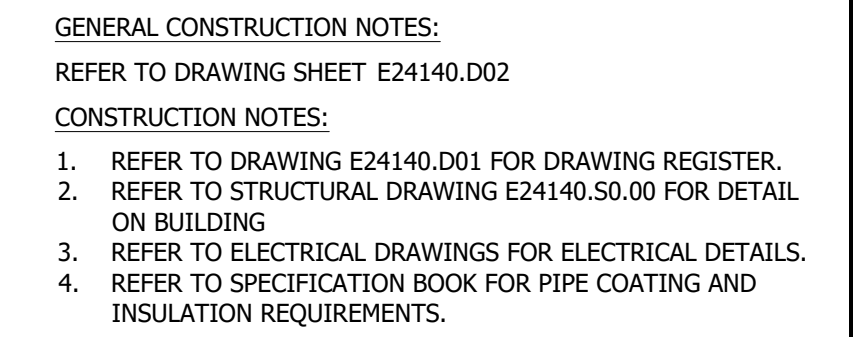
Title: AMALGAMATED SUGAR COMPANY
THIN JUICE EVAPORATOR PROJECT
MECHANICAL PIPING LAYOUT 2ND FLOOR

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

Date: 2025.05.08
Chkd By: SC
Dsgn By: MLW

Project: E24140
Dwg: M12

Dwg Size: 24x36
Revision: 8



LINE LEGEND

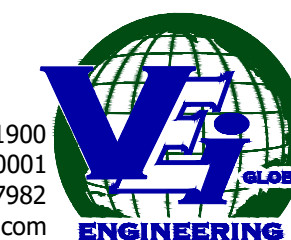
NEW
EXIST

B	2025.06.23	MLW		ISSUE FOR BID	-	
A	2025.05.16	MLW		ISSUE FOR APPROVAL	-	
No.	Date	By		Revision		Ad. No

PRELIMINARY
NOT FOR
CONSTRUCTION
2025.06.23

VEi Project No: E24140

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Title: AMALGAMATED SUGAR COMPANY
THIN JUICE EVAPORATOR PROJECT
MECHANICAL PIPING LAYOUT 4th FLOOR



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

Date: 2025.05.09

Chkd By: SC
Done By: MLW

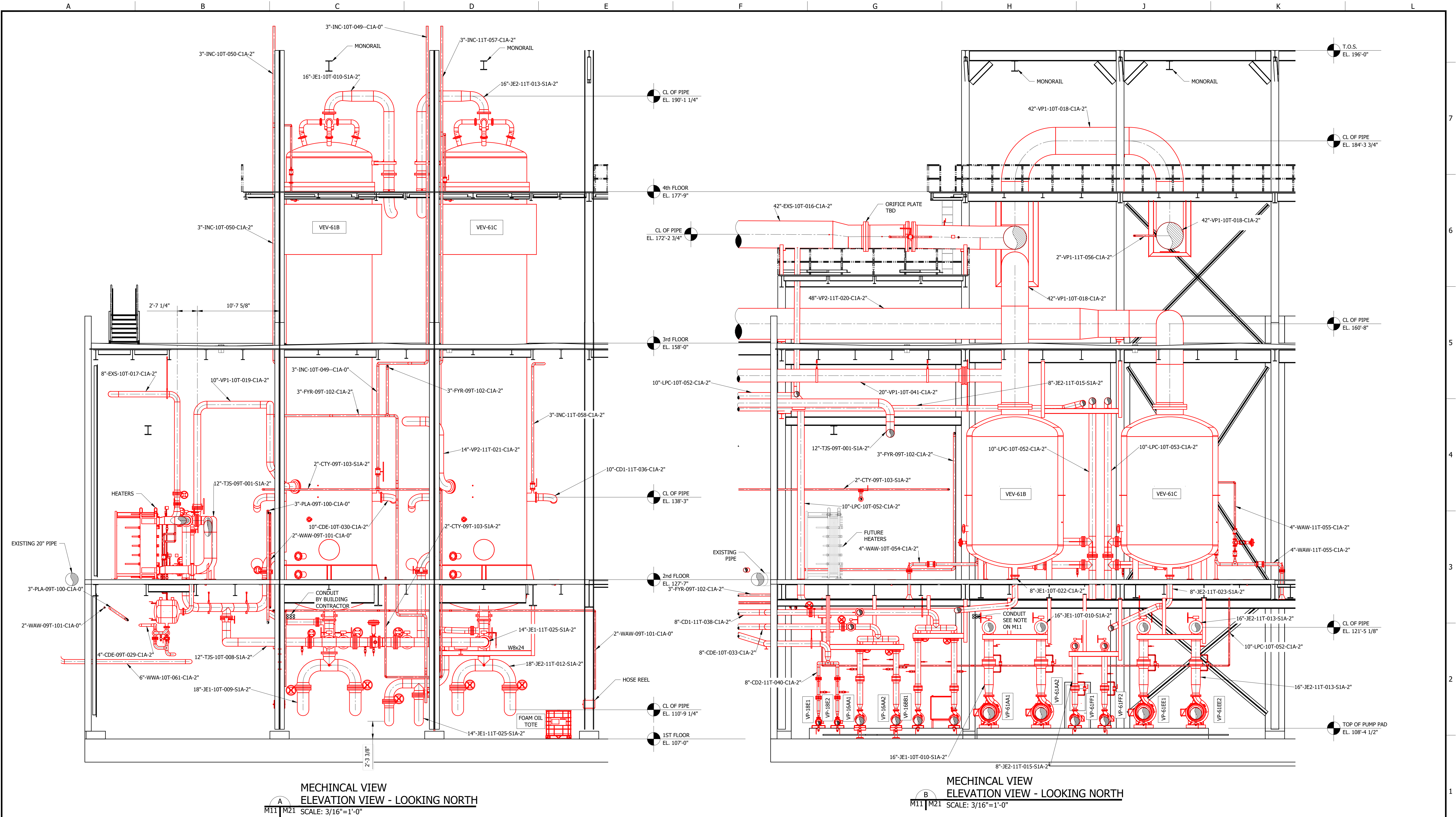
Project: E24

Dwg:

Dwg Size:

24x36

Revision:



GENERAL CONSTRUCTION NOTES:
REFER TO DRAWING SHEET E24140.D02

CONSTRUCTION NOTES:
1. REFER TO DRAWING E24140.D01 FOR DRAWING REGISTER.
2. REFER TO STRUCTURAL DRAWING E24140.S0.00 FOR DETAIL ON BUILDING
3. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL DETAILS.
4. REFER TO SPECIFICATION BOOK FOR PIPE COATING AND INSULATION REQUIREMENTS.

MECHINCAL VIEW
ELEVATION VIEW - LOOKING NORTH
SCALE: 3/16"=1'-0"

MECHINCAL VIEW
ELEVATION VIEW - LOOKING NORTH
SCALE: 3/16"=1'-0"

LINE LEGEND			
NEW	---		
EXIST	---		

No.	Date	By	Revision
B	2025.06.23	MLW	ISSUE FOR BID
A	2025.05.16	MLW	ISSUE FOR APPROVAL

PRELIMINARY
NOT FOR
CONSTRUCTION
2025.06.23

VEI Project No: E24140

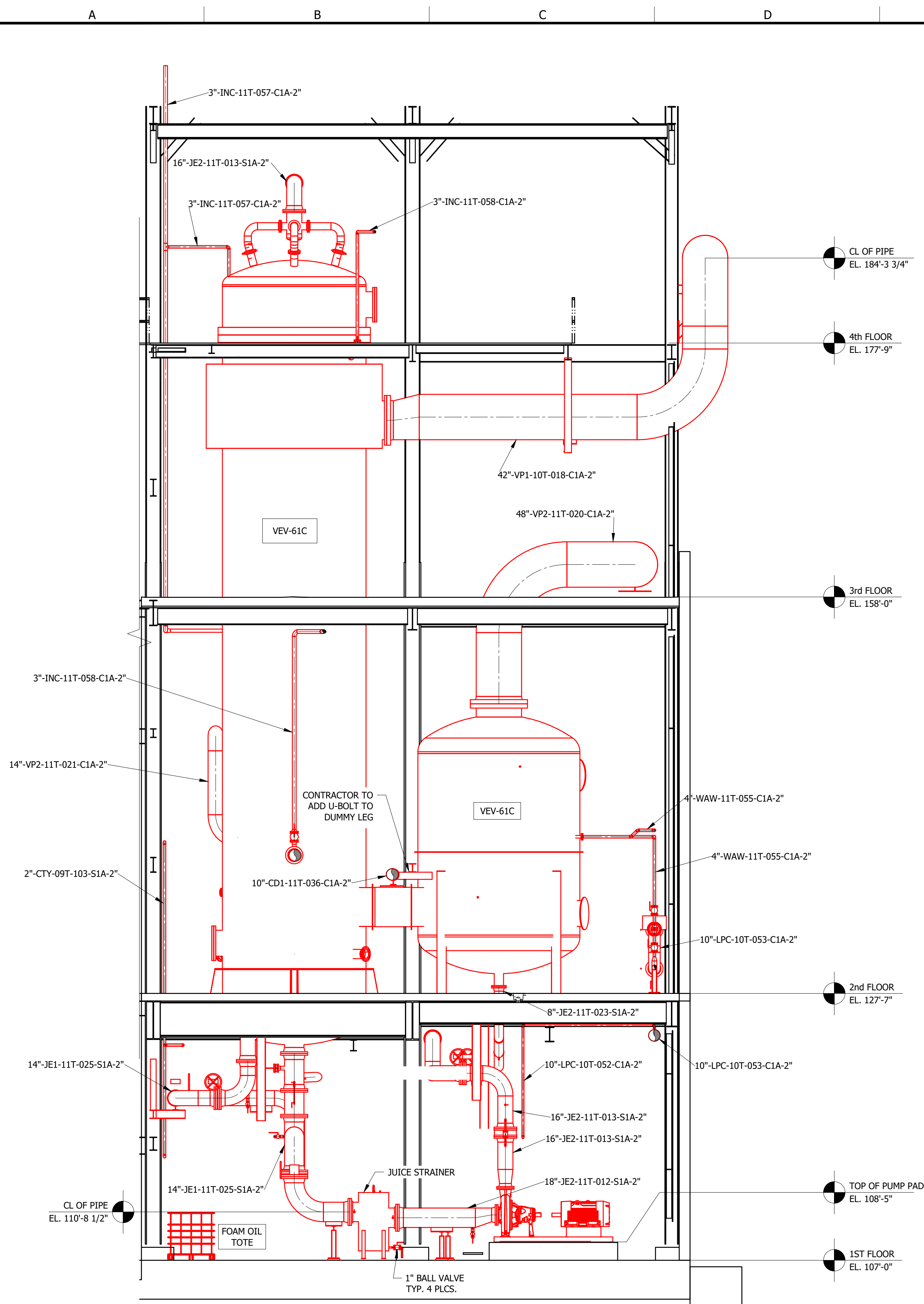
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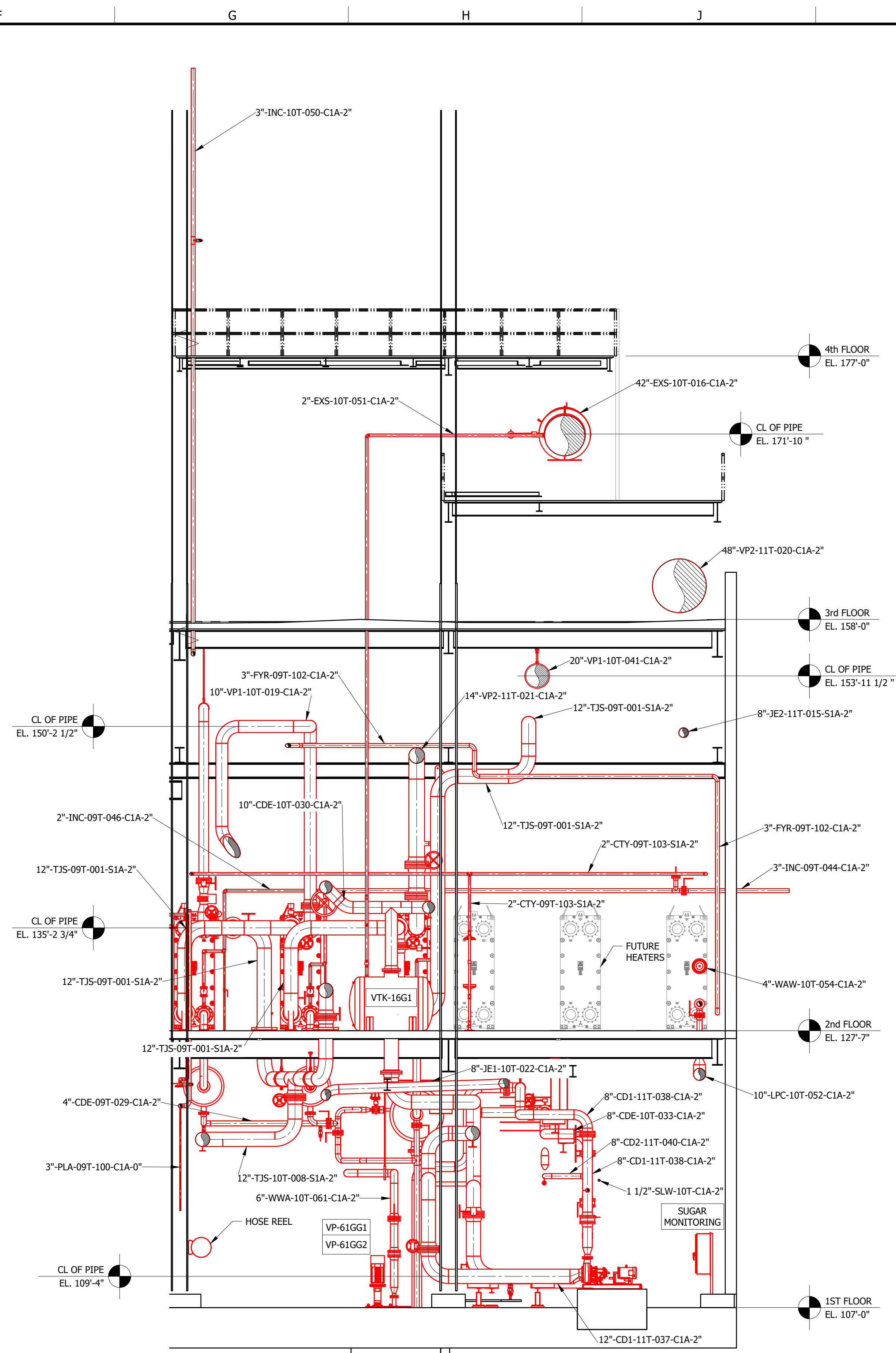
Title:
AMALGAMATED SUGAR COMPANY
THIN JUICE EVAPORATOR PROJECT
MECHANICAL PIPING SECTION VIEWS

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

Date: 2025.05.10 Chkd By: SC Dsgn By: MLW	Dwg Set: 24x36
Project: E24140 Dwg: M21	Revision: 8



MECHINICAL VIEW
ELEVATION VIEW - LOOKING WEST
C
M11 M22 SCALE: 3/16"=1'-0"



MECHINCAL VIEW
ELEVATION VIEW - LOOKING WEST
M22 M22 SCALE: 3/16"=1'-0"

GENERAL CONSTRUCTION NOTES:

REFER TO DRAWING SHEET E24140.D02

CONSTRUCTION NOTES:

1. REFER TO DRAWING E24140.D01 FOR DRAWING REGISTER.
2. REFER TO STRUCTURAL DRAWING E24140.S0.00 FOR DETAIL ON BUILDING

LINE LEGEND

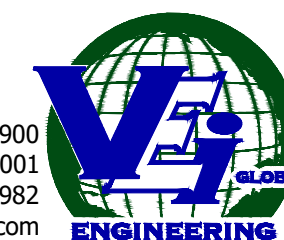
NEW
EXIST

B	2025.06.23	MLW		ISSUE FOR BID	-
A	2025.05.16	MLW		ISSUE FOR APPROVAL	-
No.	Date	By		Revision	Ad. No.

PRELIMINARY
NOT FOR
CONSTRUCTION
2025.06.23

VEi Project No: E24140

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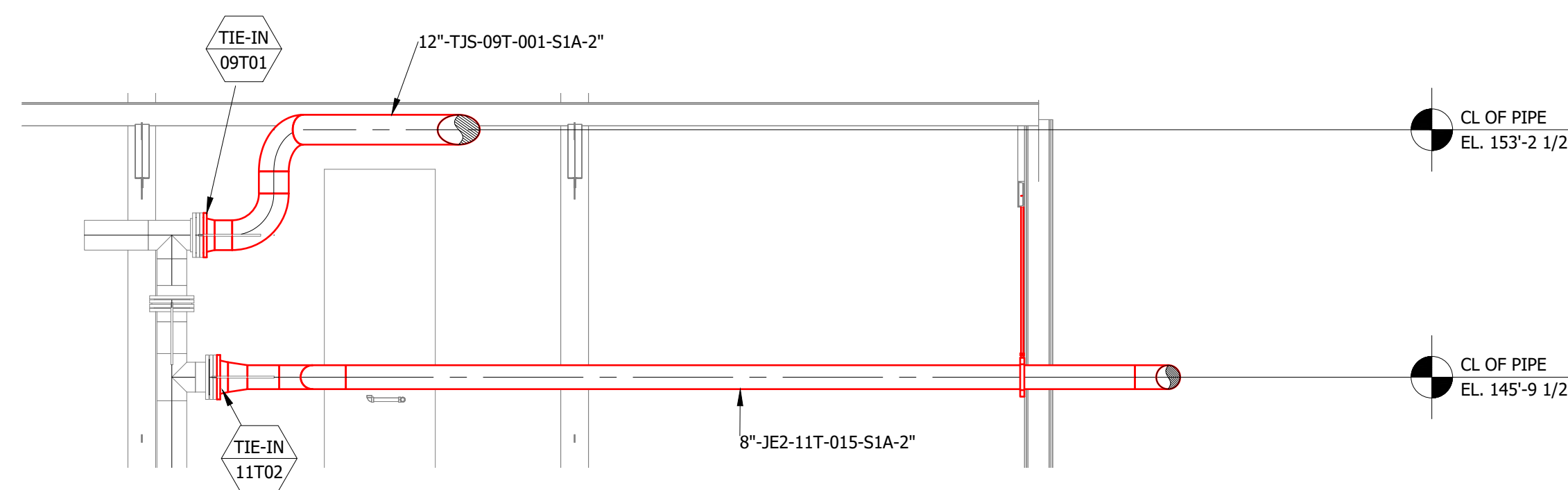


Title:	AMALGAMATED SUGAR COMPANY THIN JUICE EVAPORATOR PROJECT MECHANICAL PIPING SECTION VIEWS
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 AMALGAMATED SUGAR COMPANY
2320 ORCHARD DRIVE EAST
TWIN FALLS, IDAHO 83301

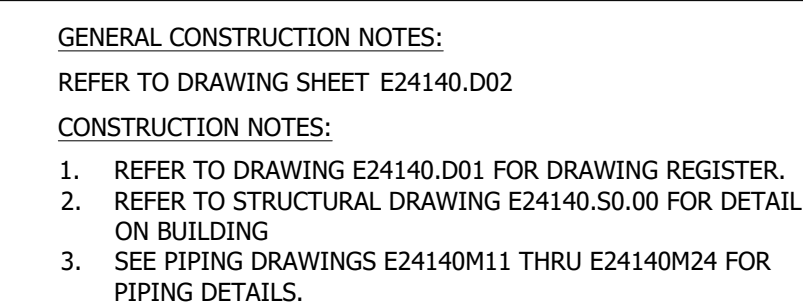
Date:	2025.05.10
Chkd By:	SC
Dsgn By:	MLW
Project:	E
Dwg:	

Dwg Size:	24x36
Revision:	B



MECHINICAL VIEW
ELEVATION VIEW - LOOKING NORTH
M16 M24 SCALE: 1/4"=1'-0"

Dwg Size:	24x36
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[illegible]

VEi Project No: E24140

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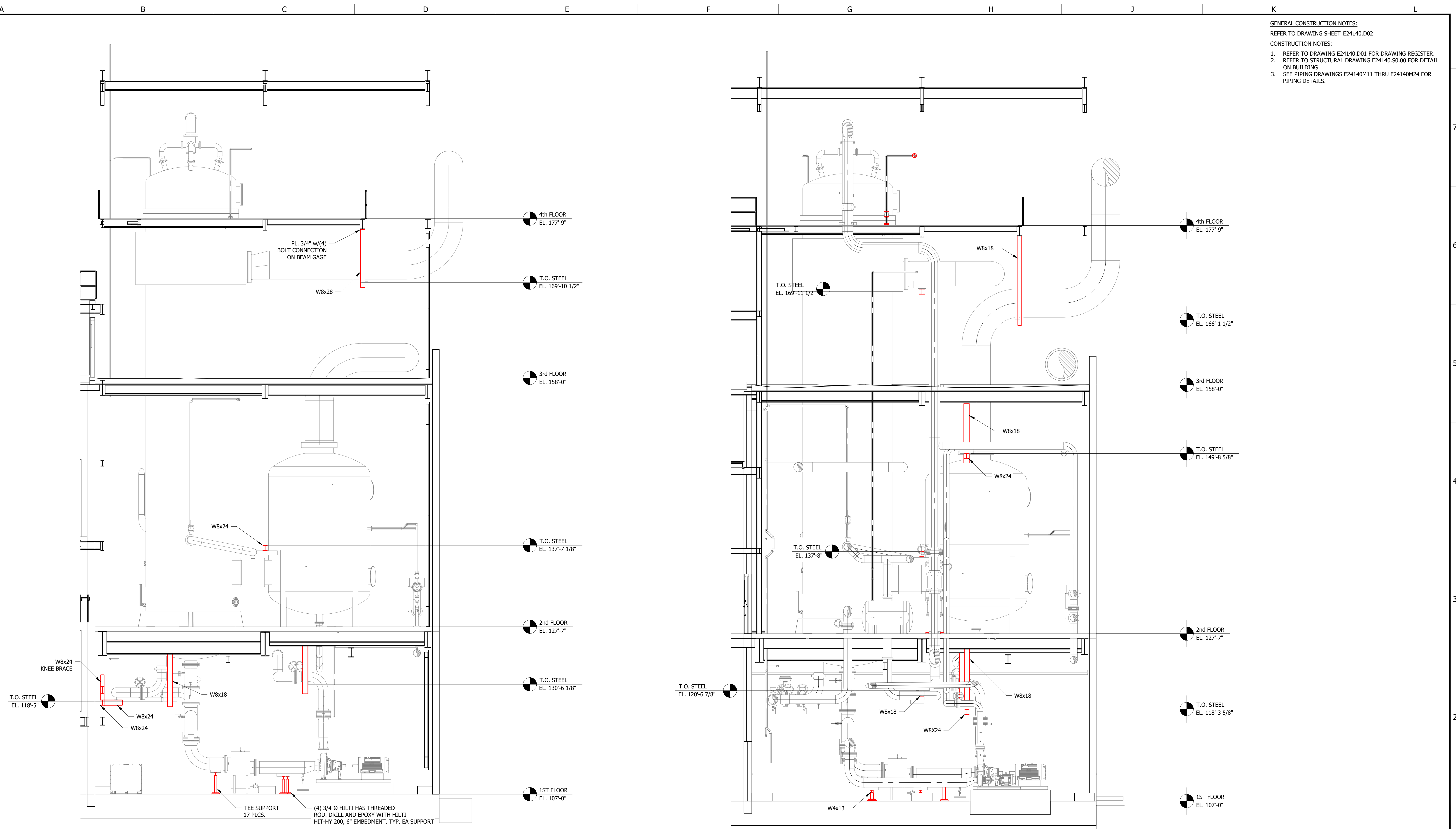


Amalgamated
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AMALGAMATED SUGAR COMPANY
2320 ORCHARD DRIVE EAST
TWIN FALLS, IDAHO 83301

Date:	2025.06.20
Chkd By:	SC
Dsgn By:	MLW
Project:	
Dwg:	

Dwg Size:	24x36
Revision:	A



SUPPORT VIEW
ELEVATION VIEW - LOOKING WEST
AA
M31 M41 SCALE: 1/4"=1'-0"

SUPPORT VIEW
ELEVATION VIEW - LOOKING WEST
BB
M31 | M41
SCALE: 1/4"=1'-0"

LINE LEGEND

NEW
EXIST

A	2025.06.23	MLW	ISSUE FOR BID	-
No.	Date	By	Revision	Ad. No.

PRELIMINARY
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2025.06.23

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Title:

AMALGAMATED SUGAR COMPANY
THIN JUICE EVAPORATOR PROJECT
MECHANICAL PIPING SUPPORT SECTION VIEWS



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

Date: 2025.06.20

Chkd By: SC

Dsgn By: MLW 524

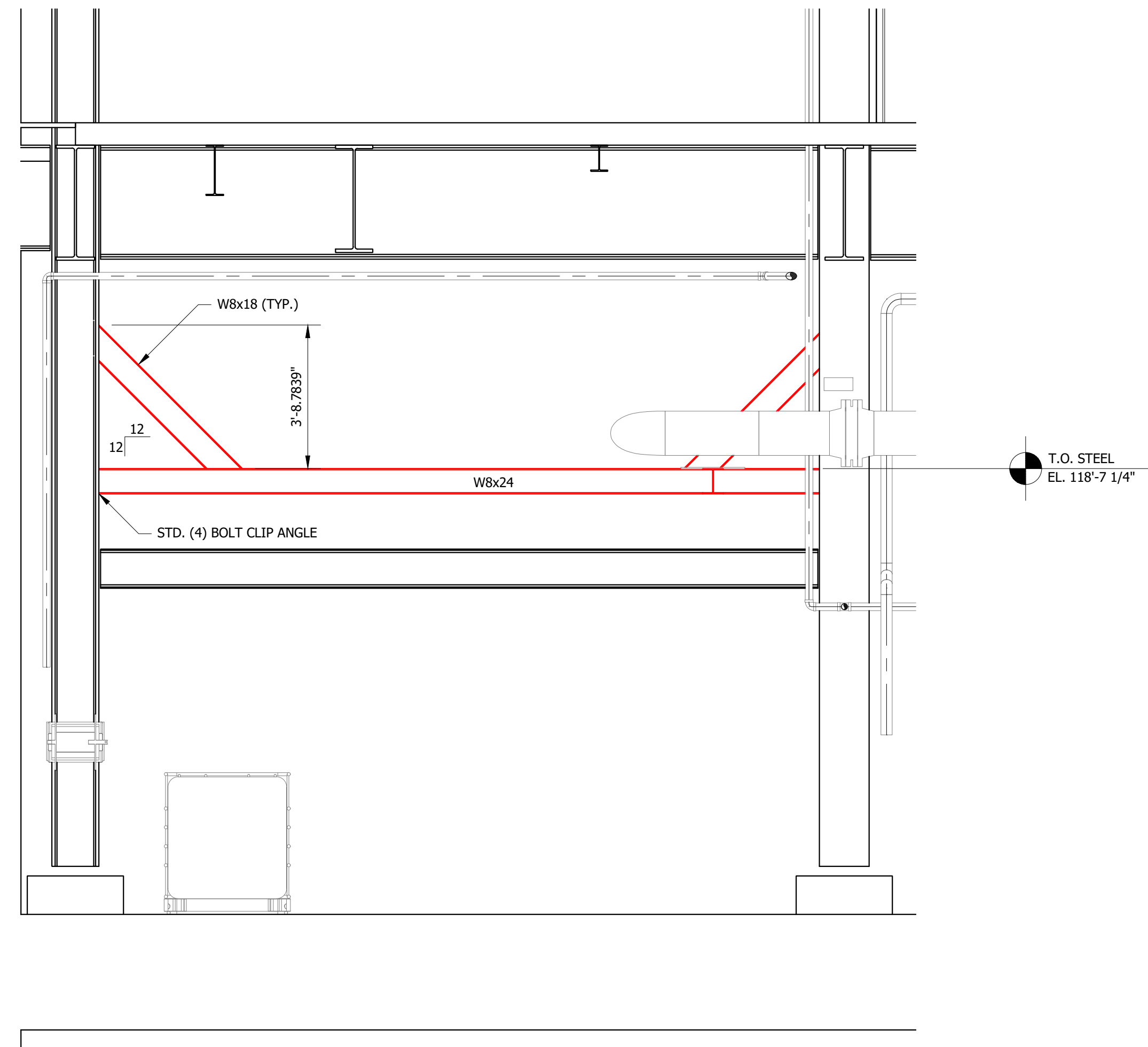
Project: E24
Drug: M

Size:

4x36

10

Answer: **A**



GENERAL CONSTRUCTION NOTES:

REFER TO DRAWING SHEET E24140.D02

CONSTRUCTION NOTES:

1. REFER TO DRAWING E24140.D01 FOR DRAWING REGISTER.
2. REFER TO STRUCTURAL DRAWING E24140.S0.00 FOR DETAILS ON BUILDING
3. SEE PIPING DRAWINGS E24140M11 THRU E24140M24 FOR PIPING DETAILS.

SUPPORT VIEW
ELEVATION VIEW - LOOKING WEST
DD
M31 M42 SCALE: 1/4"=1'-0"

SUPPORT VIEW
ELEVATION VIEW - LOOKING WEST
DD
M31 M42
SCALE: 3/8"=1'-0"

LINE LEGEND

NEW

EXIST

[illegible]

PRELIMINARY
NOT FOR
CONSTRUCTION
2025.06.23

VEi Project No: E24140

One Galleria Blvd. Suite 1900
Metairie, LA 70001
Ph: 917.822.7982
www.veiglobal.com



Title: AMALGAMATED SUGAR COMPANY
THIN JUICE EVAPORATOR PROJECT
MECHANICAL PIPING SUPPORT SECTION VIEWS



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

Date: 2025.06.20

Chkd By: SC
MM

Desgn By: MLW

Project: E

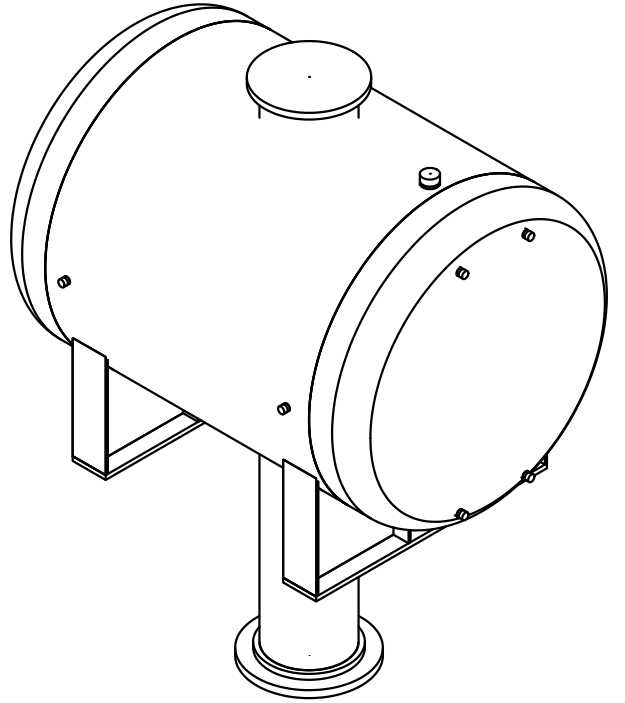
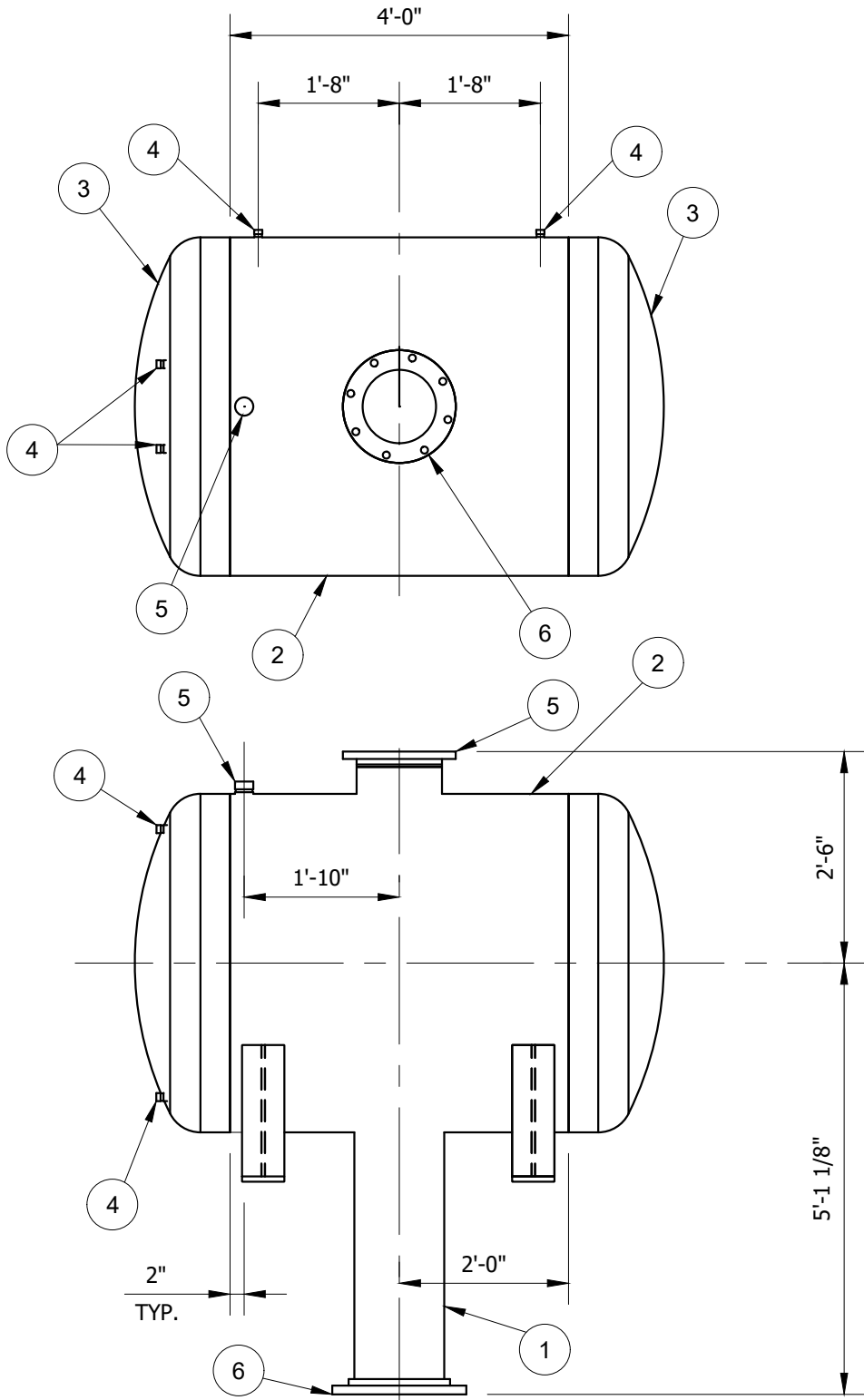
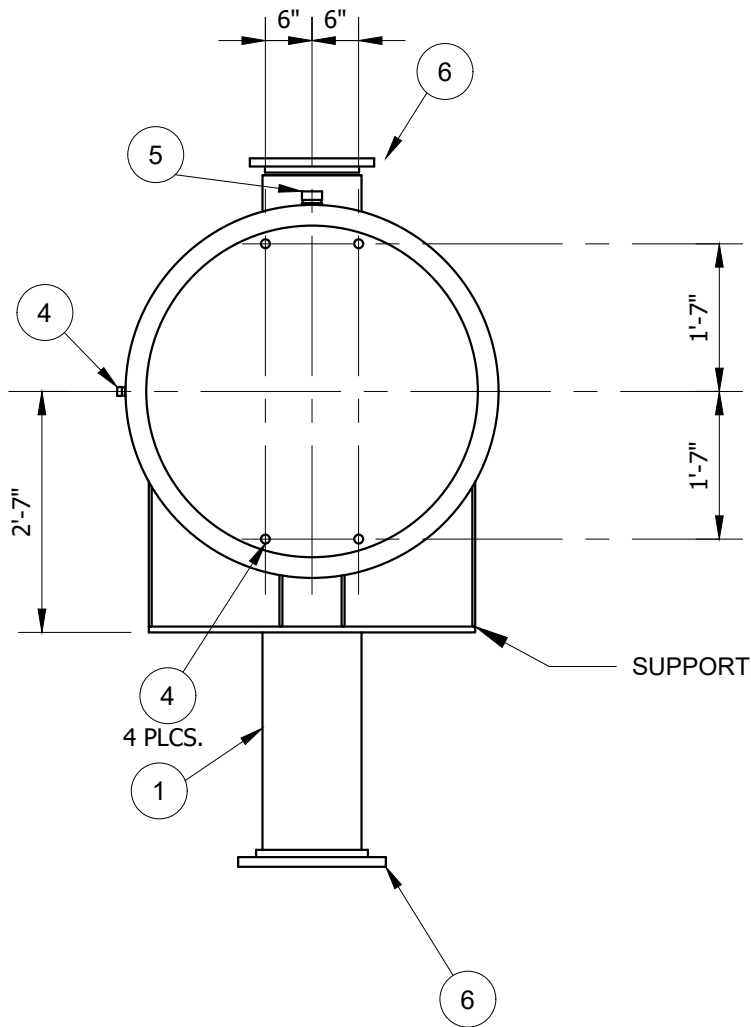
ing Size:

24x36

delano

Answer: **A**

BILL OF MATERIALS				
ID	QTY	ND	SCH/ CLASS	DESCRIPTION
1	-	12"	STD	PIPE, SCH. STD, ERW, CS, ASTM A53-B, ASME B36.10
2	-	48"	STD	PIPE, SCH. STD, ERW, CS, ASTM A53-B, ASME B36.10
3	2	48"	STD	CAP, SCH. STD, BW, ASME B16.9
4	6	3/4"	3000	COUPLING, CL. 3000, THRD
5	1	2"	3000	COUPLING, CL. 3000, SW, ASME B16.11
6	2	10"	150	FLANGE SO, CL. 150, FF, ASTM A105, ASME B16.5



DESIGN INFO:
HYDRO TEST: 70 PSIG
OPERATING PRESSURE: 45 PSIG
DESIGN TEMPERATURE: 300°F
VOLUME: 532 GAL. / 71.12 CUBIC FOOT

QNTY: 2

B	2025.06.23	MLW	ISSUE FOR BID	-	
A	2025.04.03	MLW	ISSUE FOR APPROVAL	-	
No.	Date	By	Revision	Ad. No.	

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

Title:
AMALGAMATED SUGAR
EVAPORATOR PROJECT
VTK-16F1 / VTK-16G1 EVAP 1 & 2 PIG

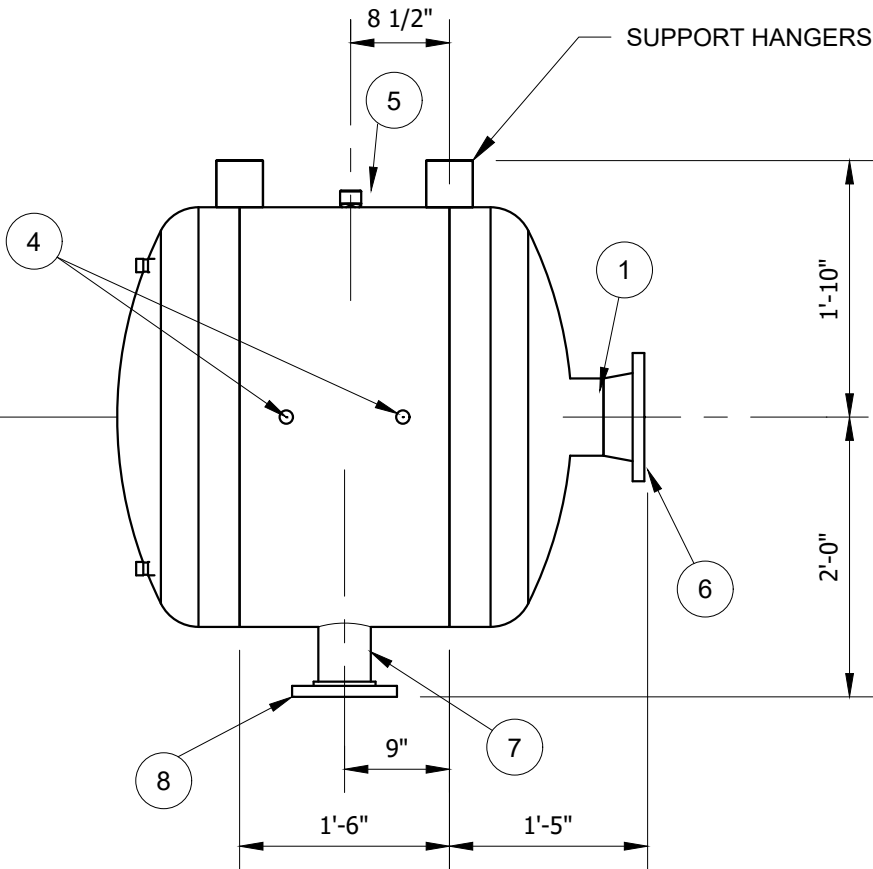
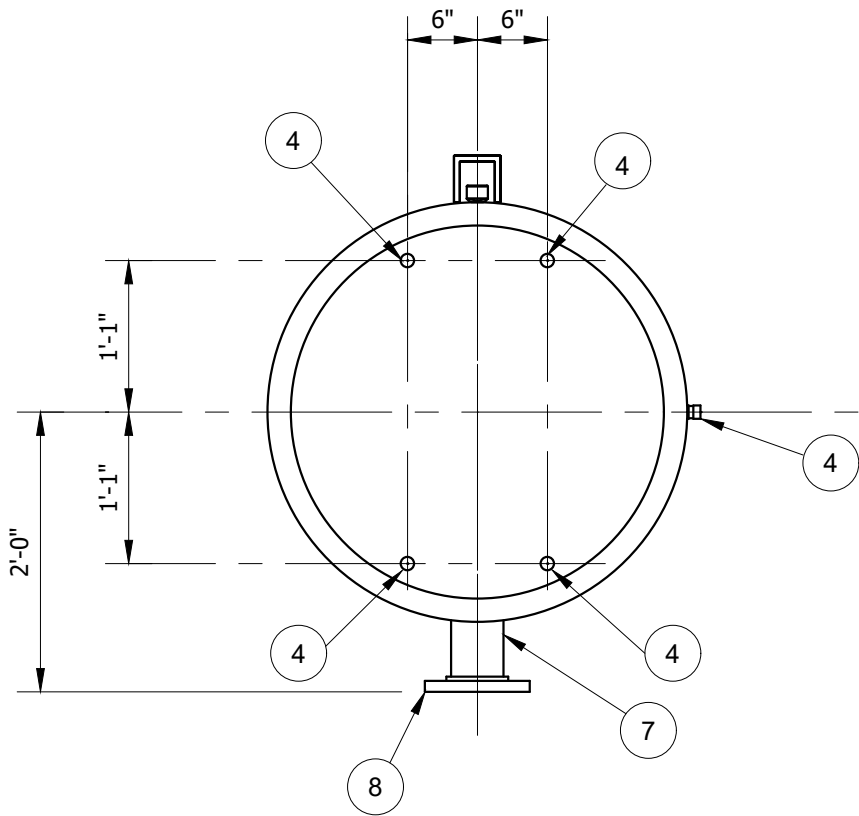
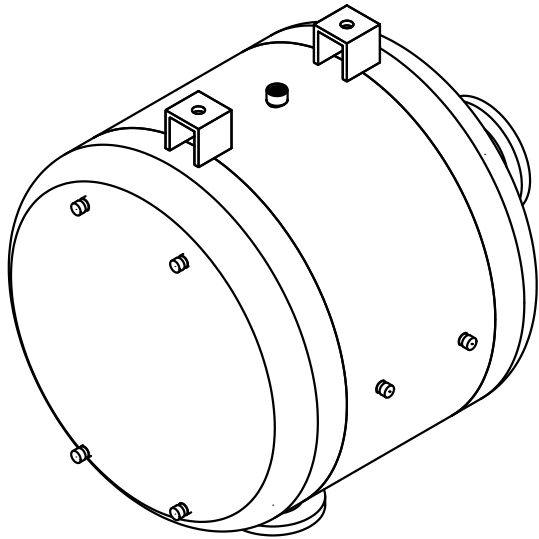
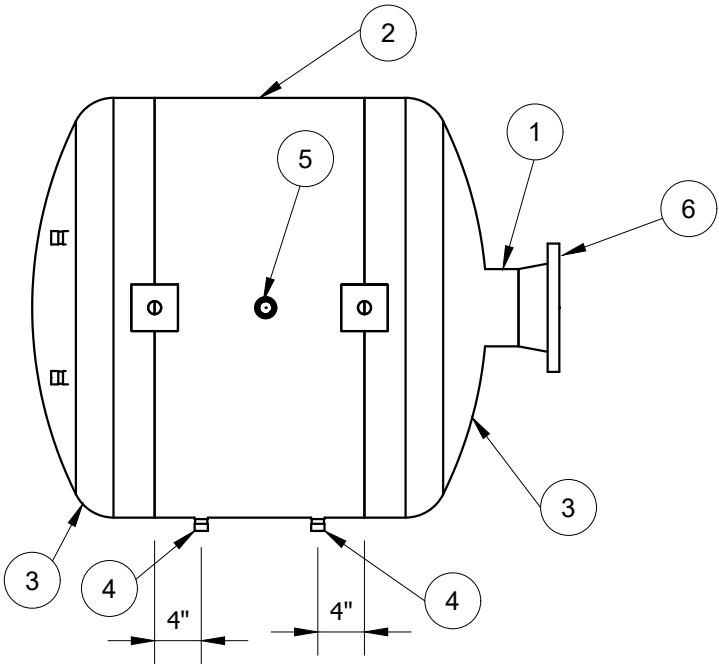
Date: 2025.03.10
Chkd By: SC
Dsgn By: MLW

Dwg Size:
11x17

Project: E24140
Dwg: M61

Revision:
B

BILL OF MATERIALS				
ID	QTY	ND	SCH/CLASS	DESCRIPTION
1	-	6"	STD	PIPE, SCH. STD, SMSL, CS
2	-	36"	STD	PIPE, SCH. STD, SMSL, CS
3	2	36"	STD	CAP, SCH. STD, BW
4	6	3/4"	3000	COUPLING, CL. 3000, THRD
5	1	1"	3000	COUPLING, 3000 LB, SW
6	1	6"	150	FLANGE SO, CL. 150, RF
7	1	4"	150	FLANGE SO, CL. 150, RF
8	1	4"	150	FLANGE SO, CL. 150, RF



DESIGN INFO:
HYDRO TEST: 70 PSIG
OPERATING PRESSURE: 45 PSIG
DESIGN TEMPERATURE: 300°F
VOLUME: 136.5 GAL. / 18.25 CUBIC FOOT

QNTY: 2

B	2025.06.25	MLW	ISSUE FOR BID	-	
A	2025.04.03	MLW	ISSUE FOR APPROVAL	-	
No.	Date	By	Revision	Ad. No.	

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

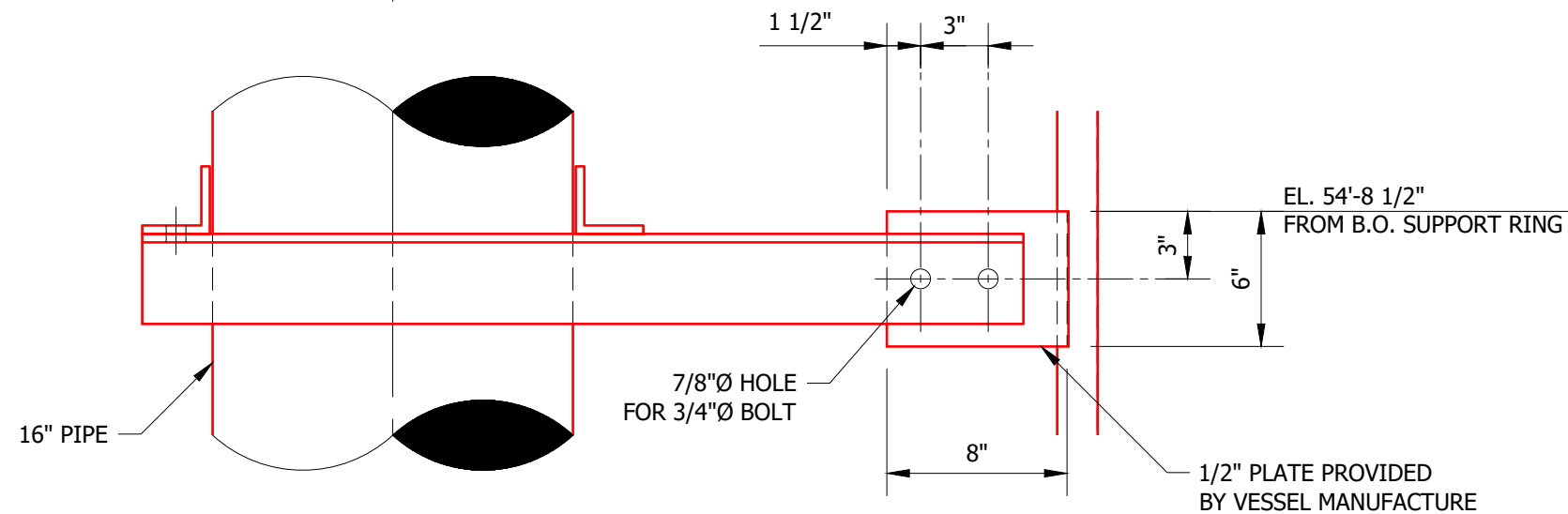
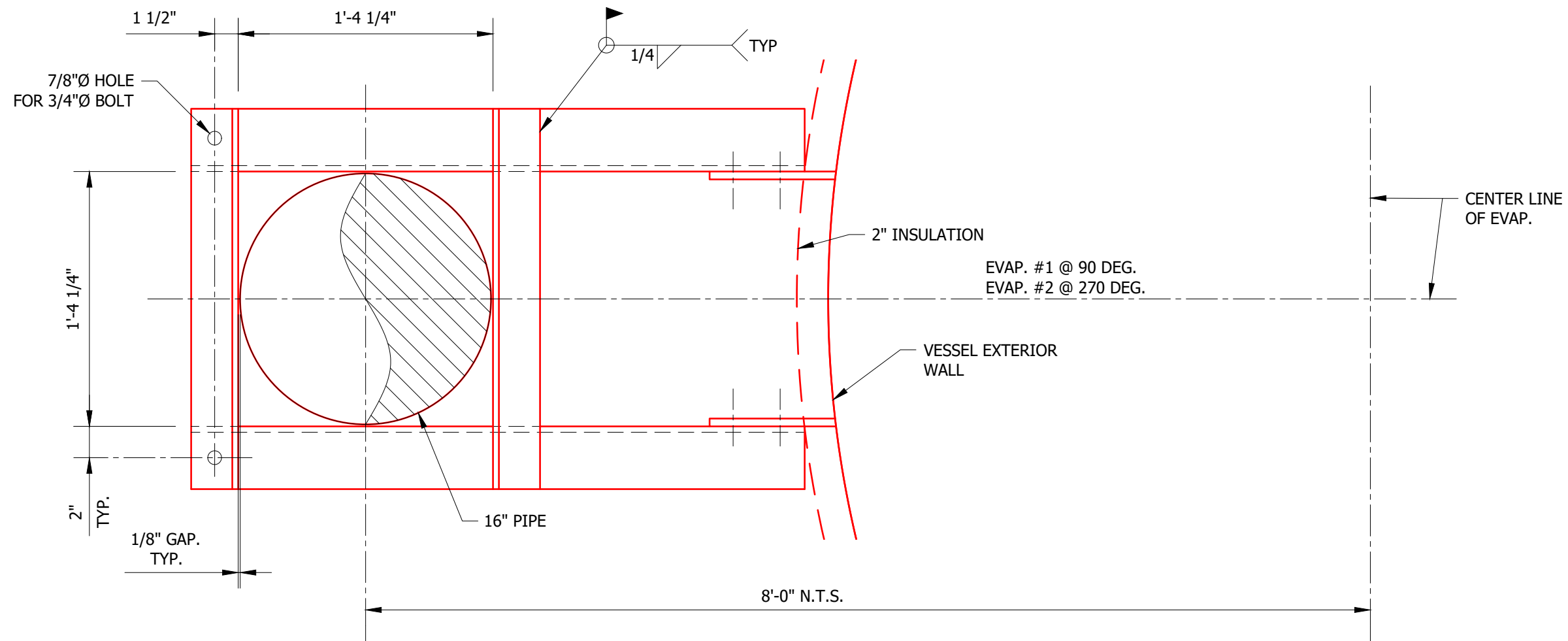
Title:
AMALGAMATED SUGAR
EVAPORATOR PROJECT
VTK-58D / VTK-58E TJ HTR PIG

Date: 2025.03.10
Chkd By: SC
Dsgn By: MLW

Dwg Size:
11x17

Project: E24140
Dwg: M62

Revision:
B



PIPE GUIDE

SCALE: 1 1/2"=1'-0"
QNTY: 2 SEE PLAN

B	2025.06.23	MLW	ISSUE FOR BID	-
A	2025.04.23	MLW	ISSUE FOR REVIEW	-
No.	Date	By	Revision	Ad. No.

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Title:

AMALGAMATED SUGAR
EVAPORATOR PROJECT
PIPE GUIDE ON EVAPORATOR HEAD



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

Date: 2025.04.23
Chkd By: SC
Dsgn By: MLW

Dwg Size:

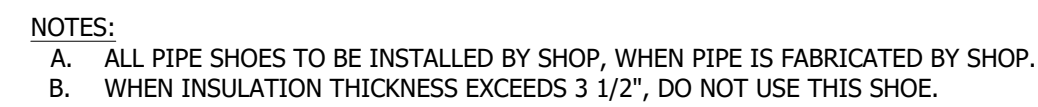
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Project:
Dwg:

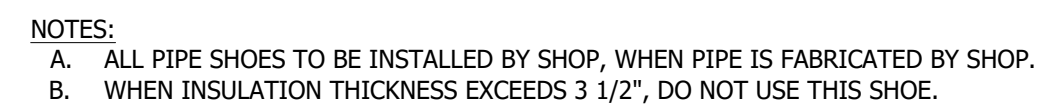
E24140
M64

Revision:

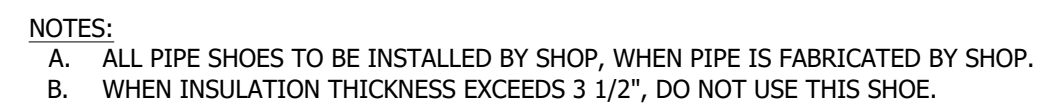




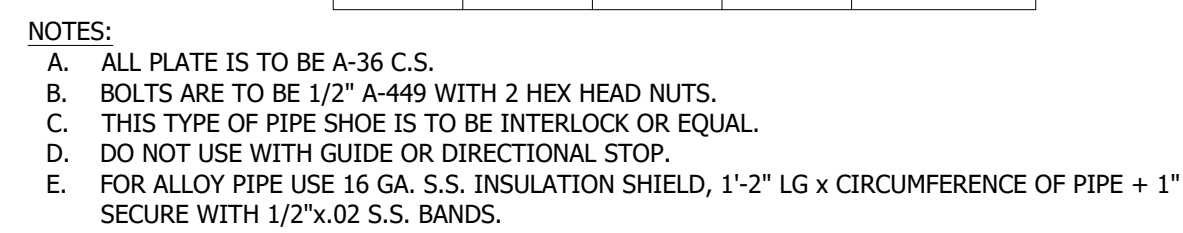
FOR 8" C.S. PIPE & SMALLER



FOR 10" TO 16" C.S. PIPE

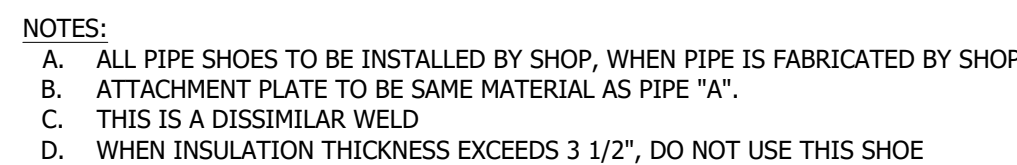


FOR 18" TO 30" C.S. PIPE

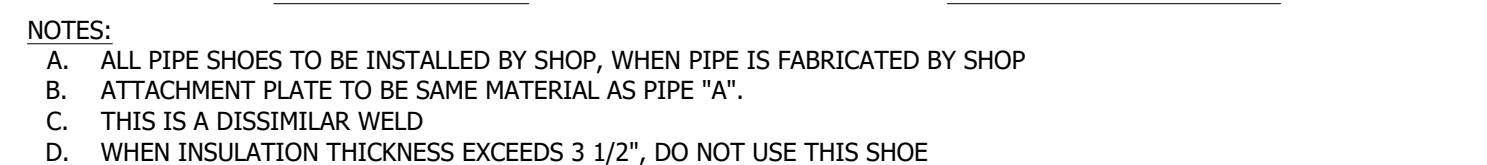


ORDERING INFORMATION
TRI SYSTEMS
6461 SEIGEN LANE
BATON ROUGE, LA 70808

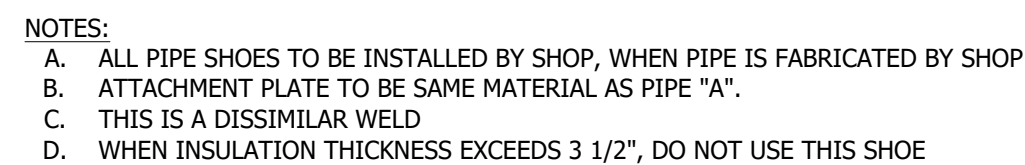
FOR 8" PIPE & SMALLER
(CARBON STEEL & ALLOY PIPE)



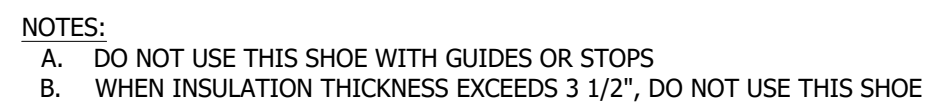
FOR 8" ALLOY PIPE & SMALLER



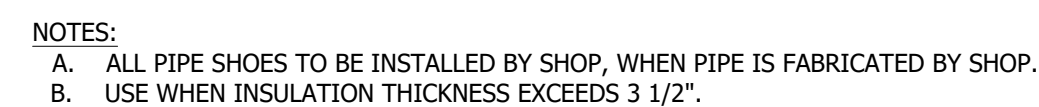
FOR 10" TO 16" ALLOY PIPE



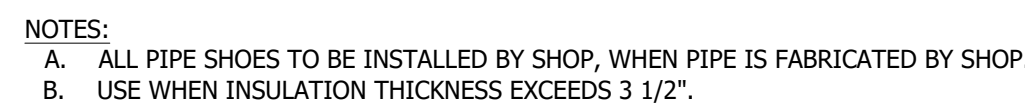
FOR S.S. 18" TO 30" PIPE



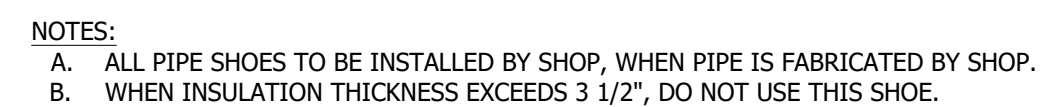
FOR 4" PVC, FRP OR S.S. PIPE & ELBOW



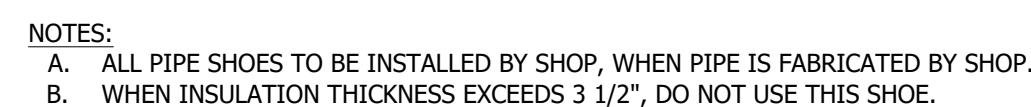
FOR 6" TO 14" PIPE



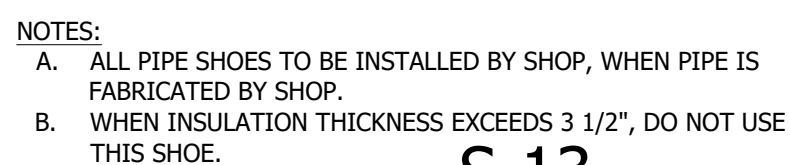
FOR 16" TO 24" PIPE



FOR 36" TO 48" PIPE



FOR 54" TO 72" PIPE



FOR 24" C.S. PIPE & SMALLER SLOPED LINES



A	2025.06.23	MLW	ISSUE FOR BI	-	
No.	Date	Bv	Revision	Ad. No	

PRELIMINARY
NOT FOR
CONSTRUCTION
2025.06.23

VEi Project No: E24140

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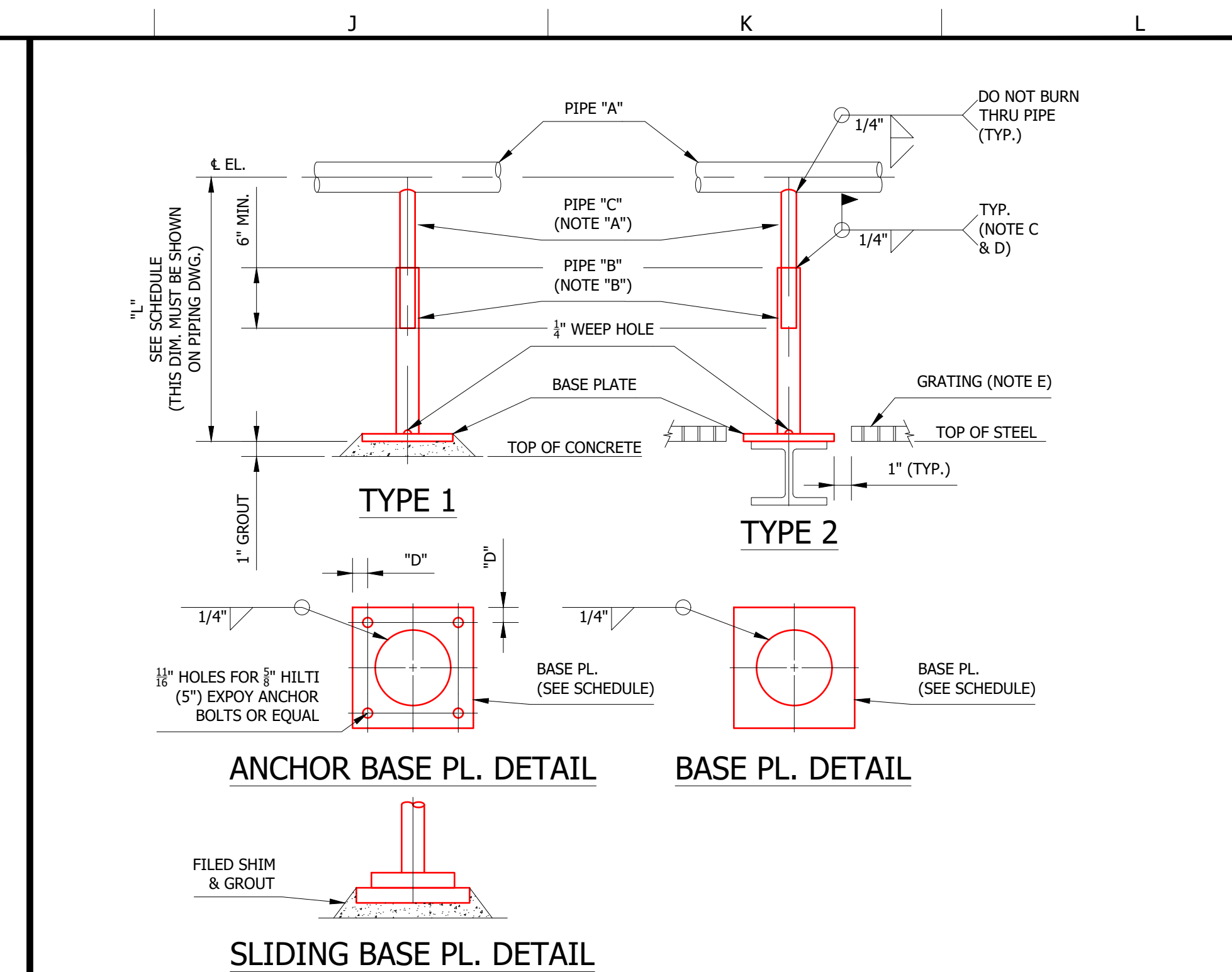
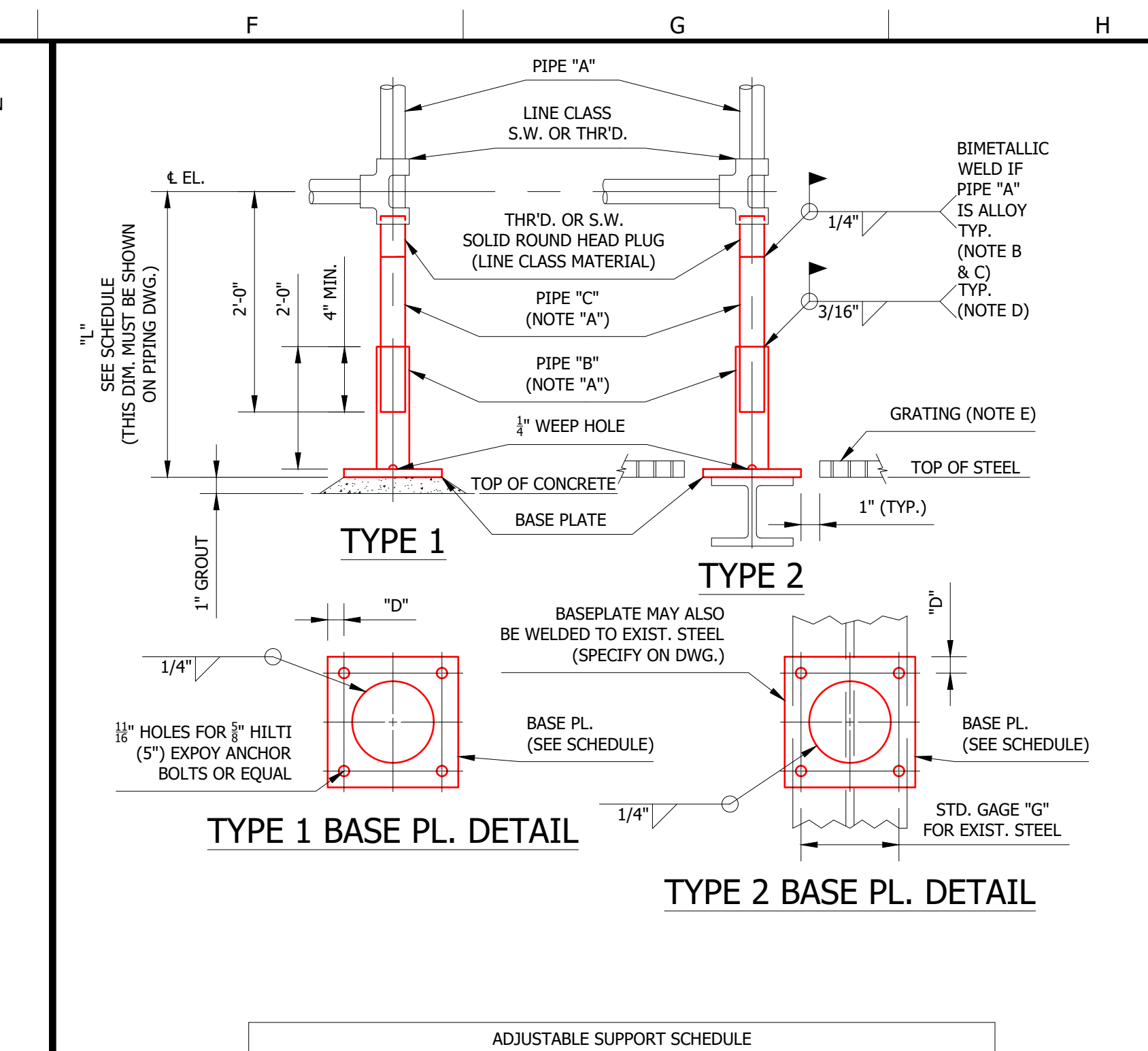
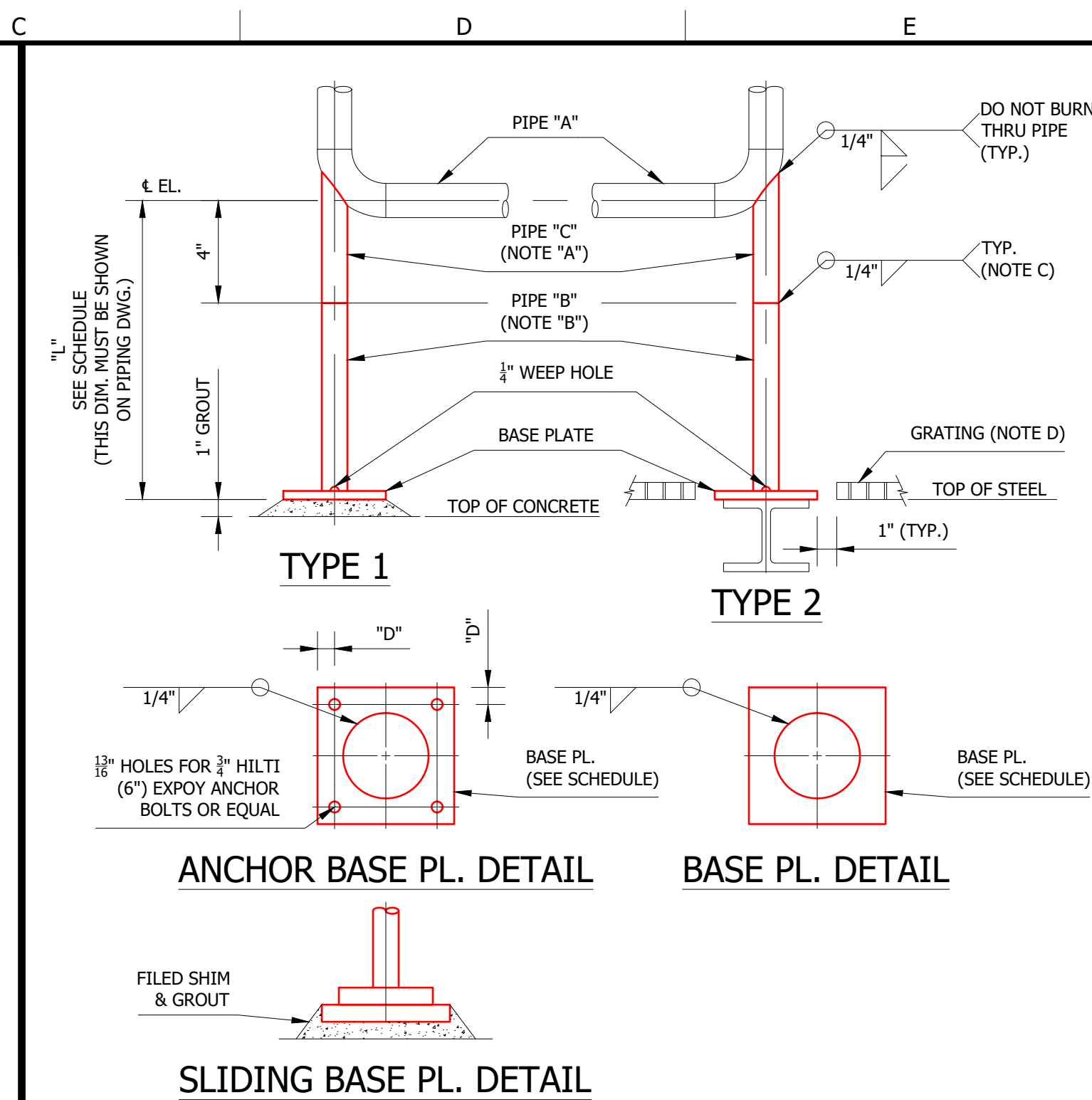
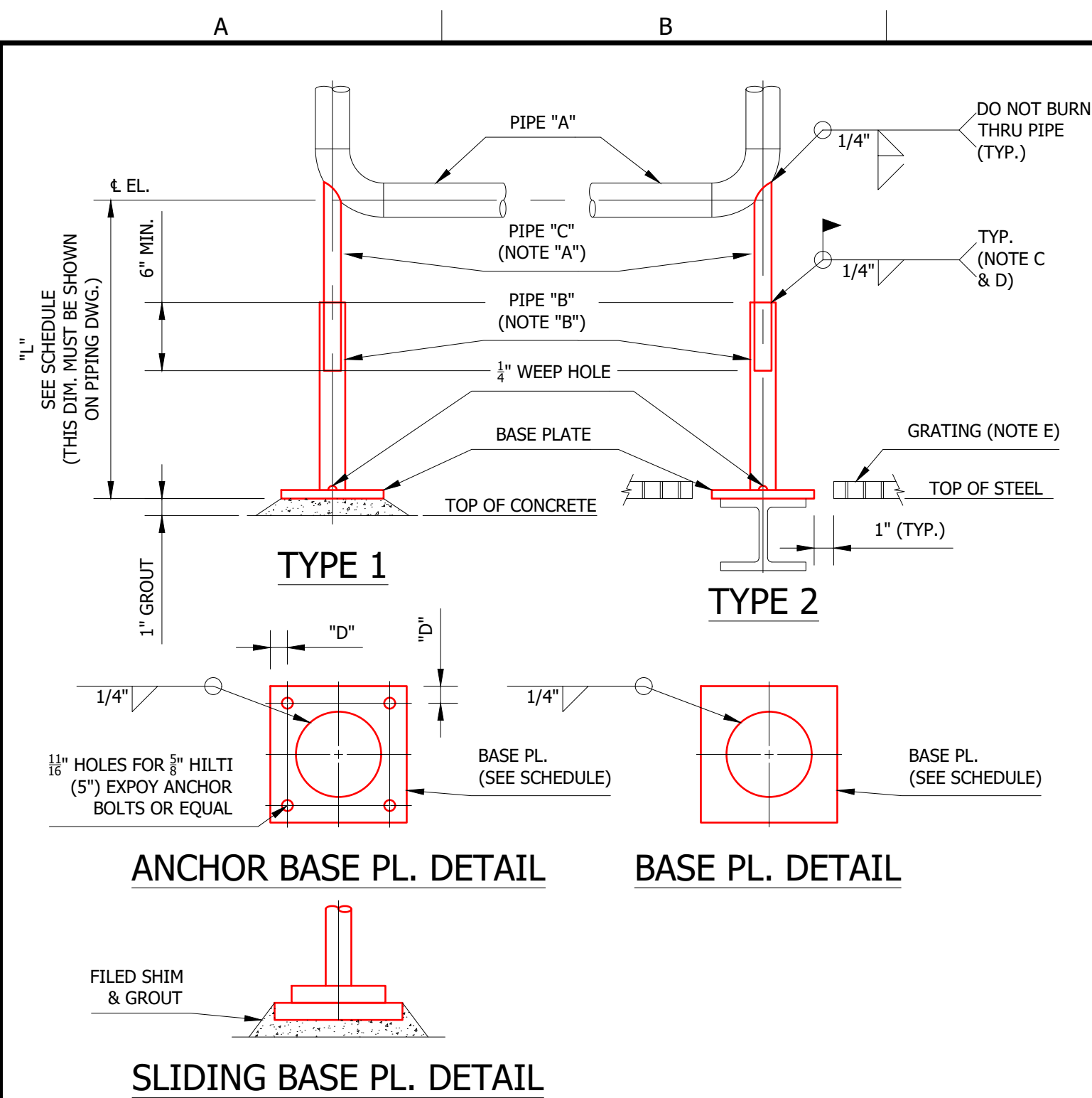


Title: AMALGAMATED SUGAR COMPANY
THIN JUICE EVAPORATOR PROJECT
MECHANICAL PIPE SUPPORT DETAILS SHT 1



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

Date: 2025.06.23	Dwg Size: 24x36
Chkd By: SC	
Dsgn By: MLW	
Project: E24140	Revision: B
Dwg: M65	



ADJUSTABLE SUPPORT SCHEDULE					
PIPE "A" STD. WT. MIN.	PIPE "B" SIZE	PIPE "C" SIZE	BASE PL. SIZE	EMBEDDED BEARING PL.	"D" DIMENSION
3"-6"	3" SCH. 40	2½" STD. WT.	7"X7"X½"	8"X8"X½"	1½"
8"-12"	4" SCH. 40	3" STD. WT.	9"X9"X½"	10"X10"X½"	1¾"

NOTES:

- A. PIPE "C" MATERIAL SHALL BE THE SAME AS PIPE "A".
- B. PIPE "B" TO BE A53 GR. B OR EQUAL.
- C. DISSIMILAR WELD WHEN PIPE "A" IS ALLOY, WELD TO BE MADE WITH PIPE "A" CLASS WELD ROD AND BE PER ASME B31.3.
- D. PIPE "C" TO BE INSTALLED IN SHOP, PIPE "B" WITH BASE PL. TO BE FABRICATED BY SHOP AND SHIPPED TACK WELDED TO PIPE "C".
- E. FIELD TO CUT & REMOVE GRATING BENEATH BASE OF SUPPORT & BAND OPENING WITH $\frac{3}{16} \times 1\frac{1}{2}$ " FLATBAR.

BES-1

PIPE/ELBOW ADJUSTABLE ANCHOR SUPPORT

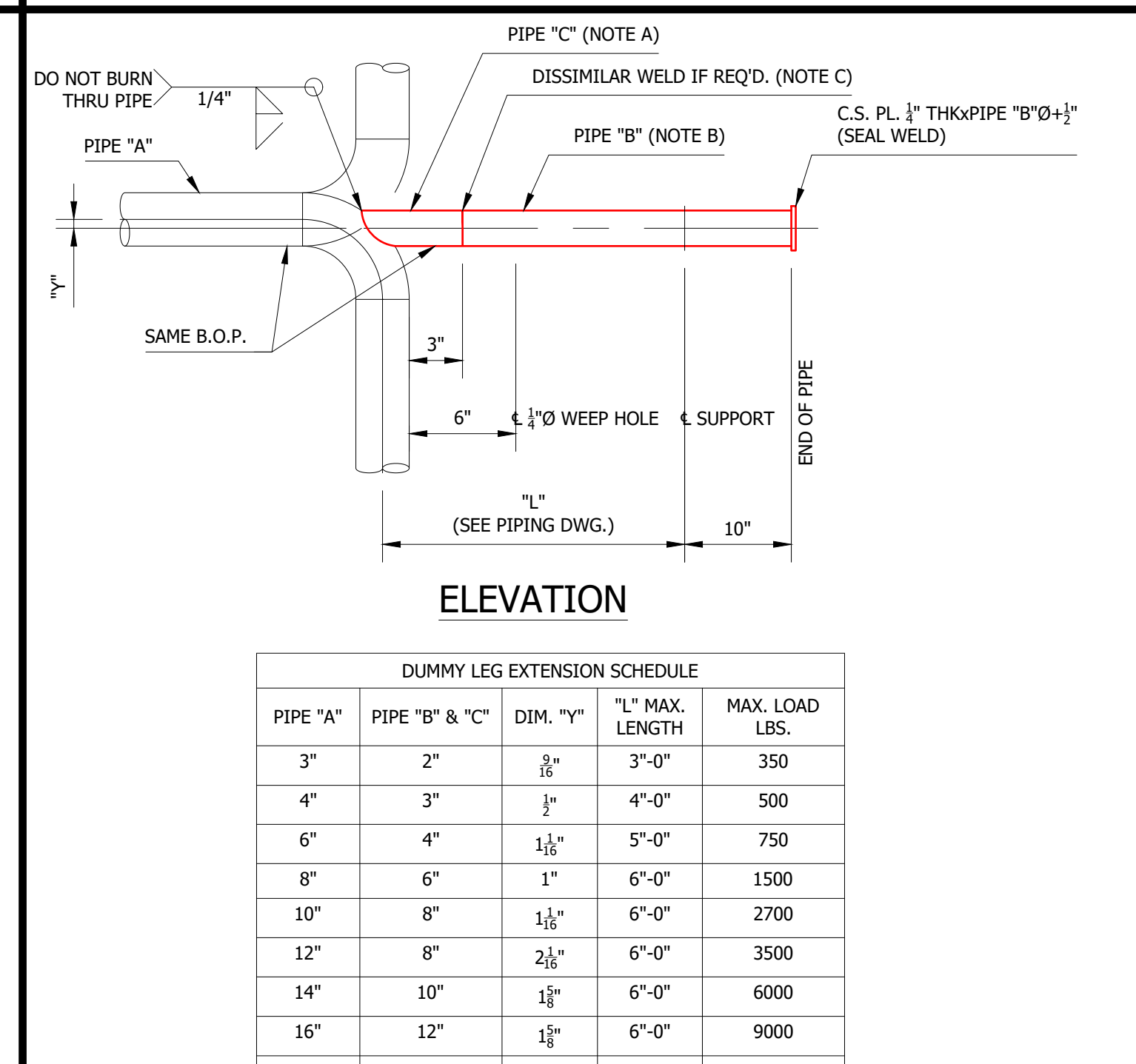
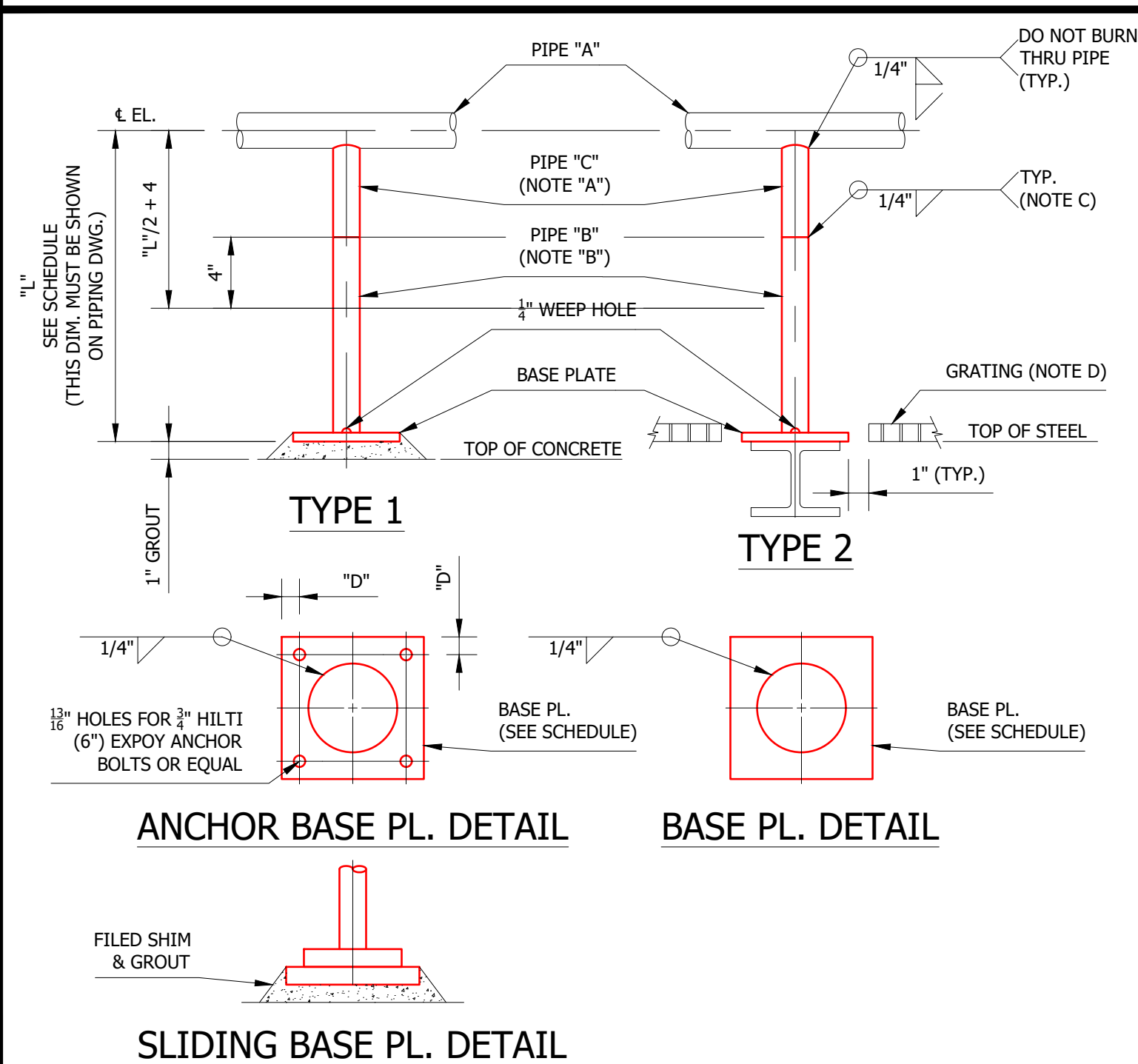
ADJUSTABLE SUPPORT SCHEDULE						
PIPE "A" STD. WT. MIN.	PIPE "B" SIZE	PIPE "C" SIZE	BASE PL. SIZE	SLIDE PL. SIZE	"L" MAX. LENGTH	"D" DIMENSION
14"-20"	6" STD. WT.	6" STD. WT.	10"X10"X $\frac{1}{2}$ "	12"X12"X $\frac{1}{2}$ "	3'-6"	1 $\frac{1}{2}$ "
24"-36"	8" STD. WT.	8" STD. WT.	12"X12"X $\frac{1}{2}$ "	14"X14"X $\frac{1}{2}$ "	3'-6"	1 $\frac{1}{2}$ "

NOTES:

- A. PIPE "C" MATERIAL SHALL BE THE SAME AS PIPE "A".
- B. PIPE "B" TO BE A53-6R ERW OR EQUAL.
- C. DISSIMILAR WELD WHEN PIPE "A" IS ALLOY, WELD TO BE MADE WITH PIPE "A" CLASS WELD ROD AND BE PER ASME B31.3.
- D. FIELD TO CUT & REMOVE GRATING BENEATH BASE OF SUPPORT & BAND OPENING WITH $\frac{3}{16}$ "x $\frac{1}{2}$ " FLATBAR.

BES-2

PIPE/ELBOW ADJUSTABLE ANCHOR SUPPORT



DUMMY LEG EXTENSION SCHEDULE				
PIPE "A"	PIPE "B" & "C"	DIM. "Y"	"L" MAX. LENGTH	MAX. LOAD LBS.
3"	2"	$\frac{3}{8}$ "	3'-0"	350
4"	3"	$\frac{1}{2}$ "	4'-0"	500
6"	4"	$1\frac{1}{8}$ "	5'-0"	750
8"	6"	1"	6'-0"	1500
10"	8"	$1\frac{1}{8}$ "	6'-0"	2700
12"	8"	$2\frac{1}{8}$ "	6'-0"	3500
14"	10"	$1\frac{5}{8}$ "	6'-0"	6000
16"	12"	$1\frac{5}{8}$ "	6'-0"	9000
18"	12"	$2\frac{5}{8}$ "	6'-0"	10000
20"	14"	3"	6'-0"	12000
24"	14"	5"	6'-0"	16000

NOTES:

- A. PIPE "C" MATERIAL AND SCHEDULE SHALL BE THE SAME AS PIPE "A".
- B. PIPE "B" TO BE STD. WT. C.S.
- C. DISSIMILAR WELD TO BE MADE WITH PIPE "A" CLASS WELD ROD AND BE PER ASME B31.3.
- D. MAXIMUM LENGTH AND LOADS MAY BE INCREASED USING LINE SIZE DUMMY LEG WITH ENGINEER'S APPROVAL.
- E. ALL DUMMY LEG EXTENSIONS TO BE INSTALLED BY SHOP, WHEN PIPE IS FABRICATED BY SHOP.

DL-1

ELBOW/DUMMY LEG SUPPORT

DUMMY LEG EXTENSION SCHEDULE			
PIPE "A"	PIPE "B" & "C"	"1" MAX. LENGTH	MAX. LOAD LBS.
3"	2"	3'-0"	315
4"	3"	3'-0"	1000
6"	4"	3'-0"	1600
8"	6"	3'-0"	4200
10"	8"	3'-0"	7500
12"	8"	4'-0"	6700
14"	10"	4'-0"	10000
16"	12"	4'-0"	14000
18"	12"	4'-0"	16000
20"	14"	4'-0"	18000
24"	14"	4'-0"	21000

NOTES:

- A. PIPE "C" MATERIAL AND SCHEDULE SHALL BE THE SAME AS PIPE "A".
- B. PIPE "B" TO BE STD. WT. C.S.
- C. DISSIMILAR WELD TO BE MADE WITH PIPE "A" CLASS WELD ROD AND BE PER ASME B31.3.
- D. MAXIMUM LENGTH AND LOADS MAY BE INCREASED USING LINE SIZE DUMMY LEG WITH ENGINEER'S APPROVAL.
- E. ALL DUMMY LEG EXTENSIONS TO BE INSTALLED BY SHOP, WHEN PIPE IS FABRICATED BY SHOP.

DL-4

VERTICAL DUMMY LEG SUPPORT

[illegible]

PRELIMINARY
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CONSTRUCTION
2025.06.23

VEi Project No: E24140

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Title:	AMALGAMATED SUGAR COMPANY THIN JUICE EVAPORATOR PROJECT MECHANICAL PIPE SUPPORT DETAILS SHT 2
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AMALGAMATED SUGAR COMPANY
2320 ORCHARD DRIVE EAST
TWIN FALLS, IDAHO 83301

Date: 2025.06.23

Chkd By: SC
 Date: MM/

Dsgn By: MLW

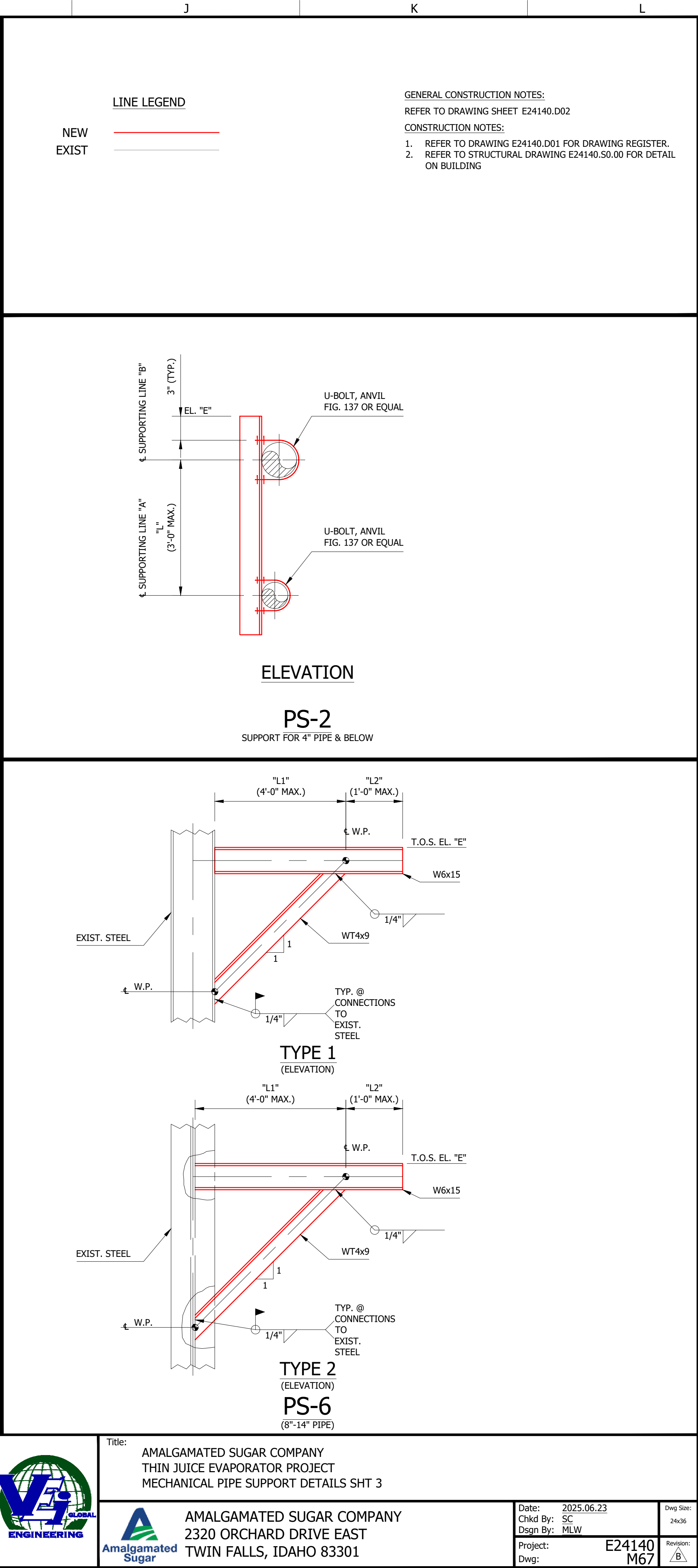
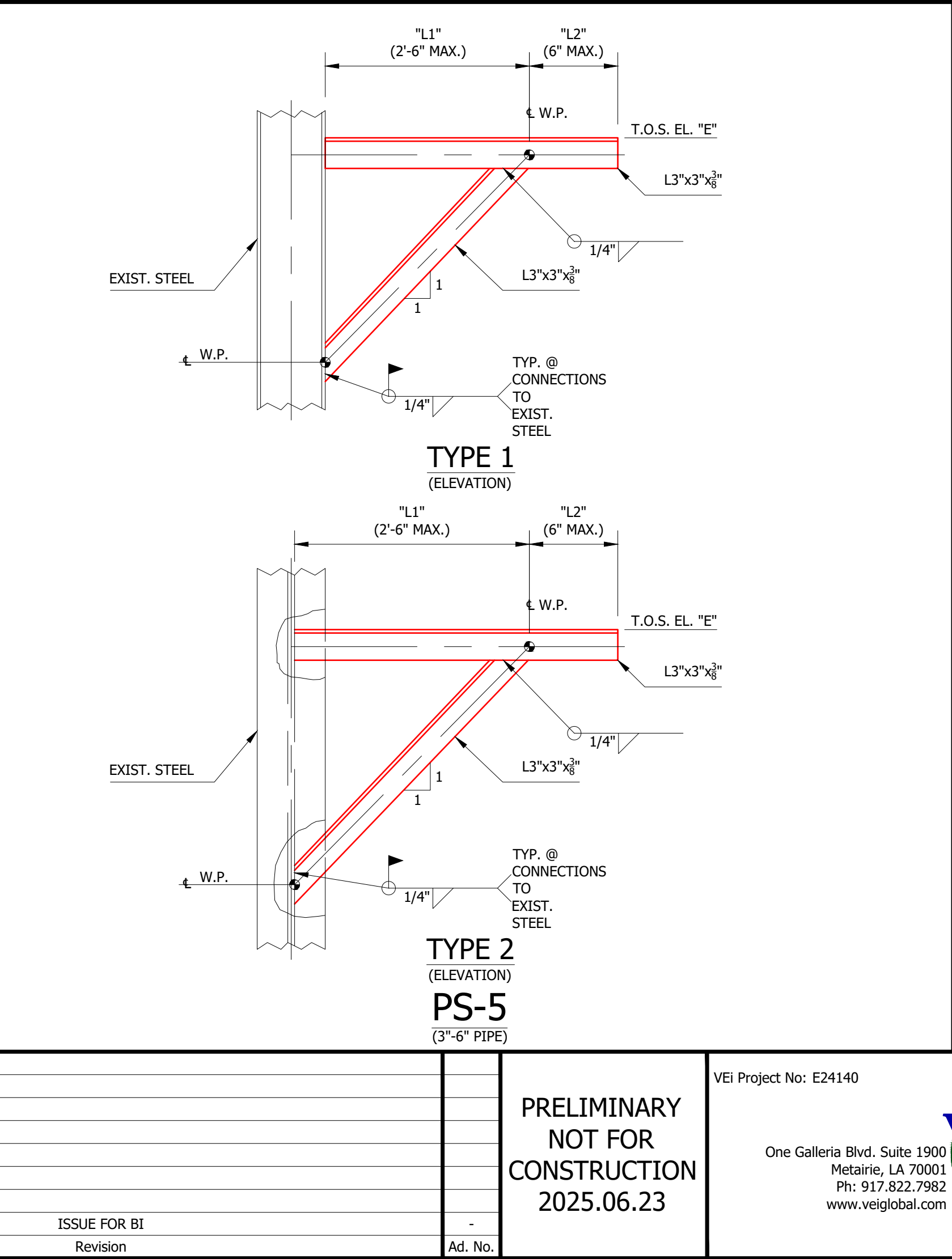
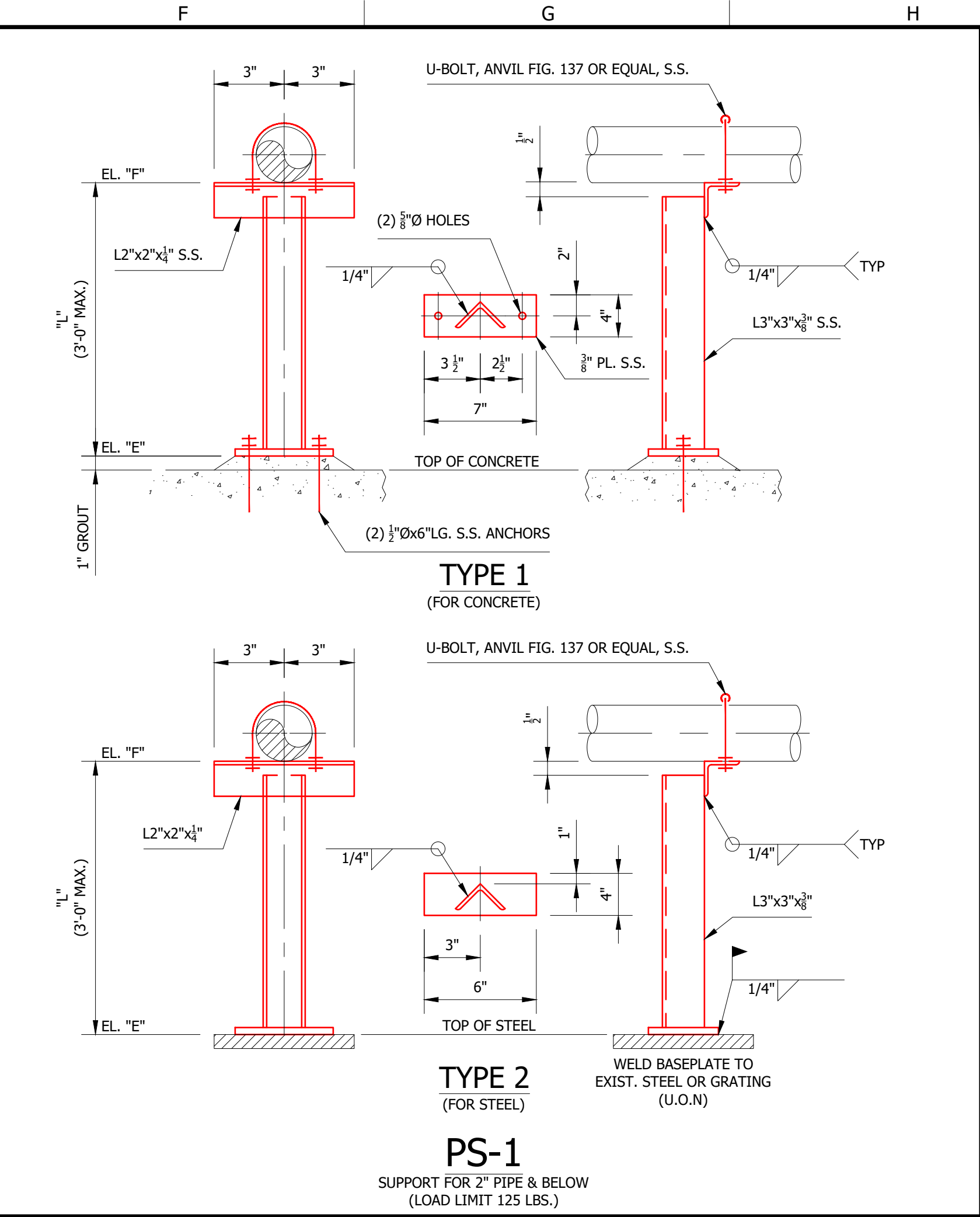
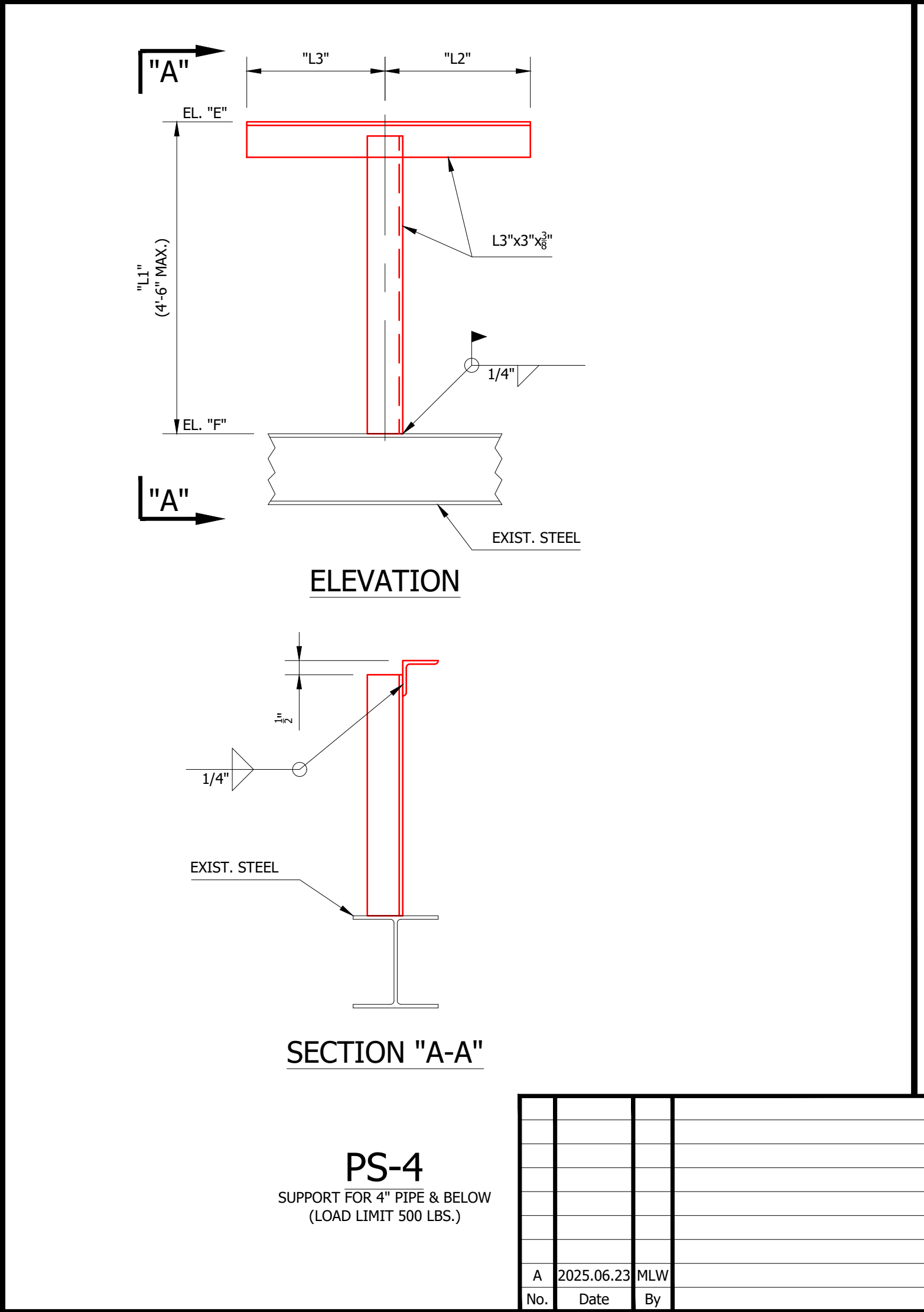
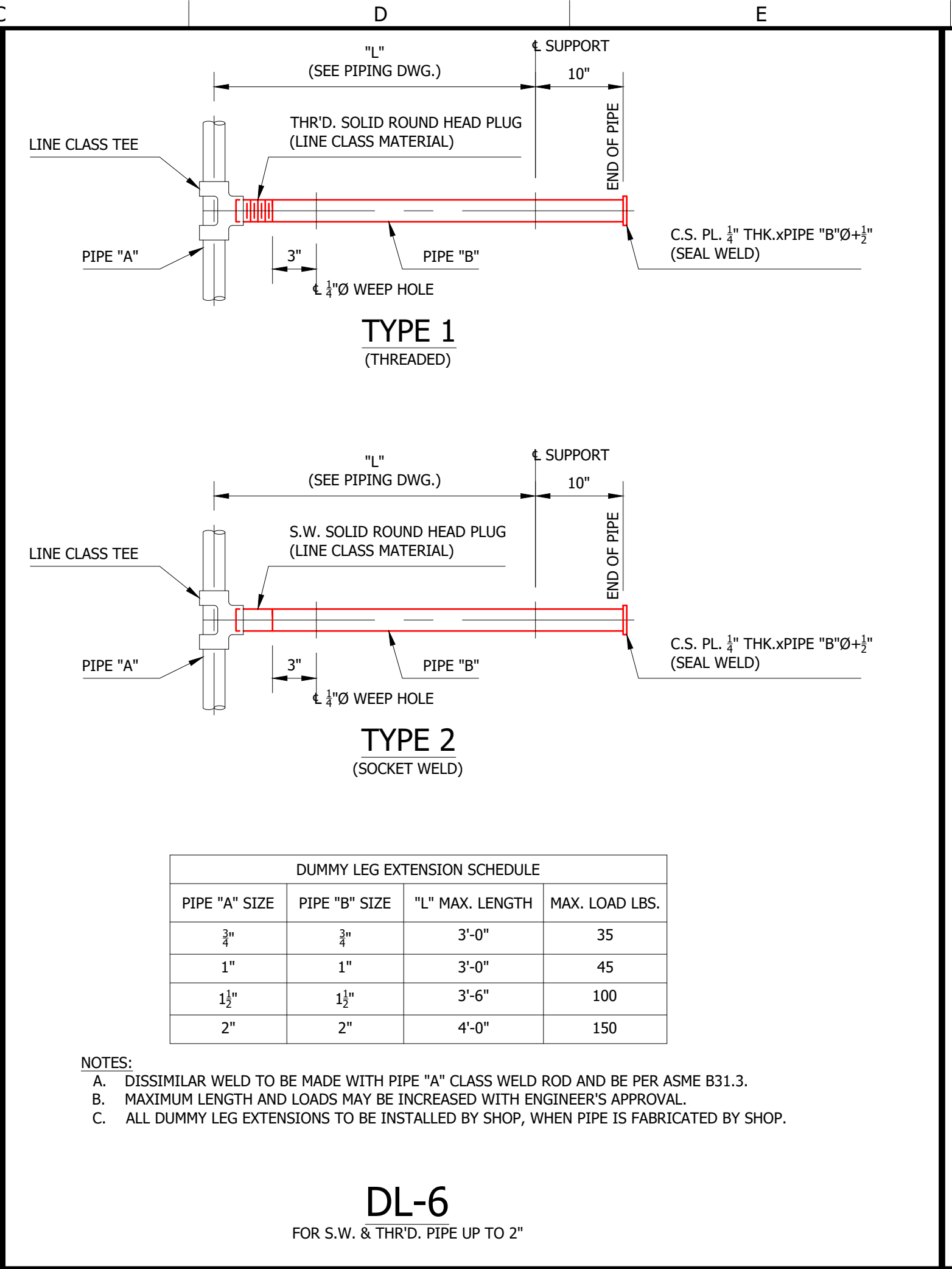
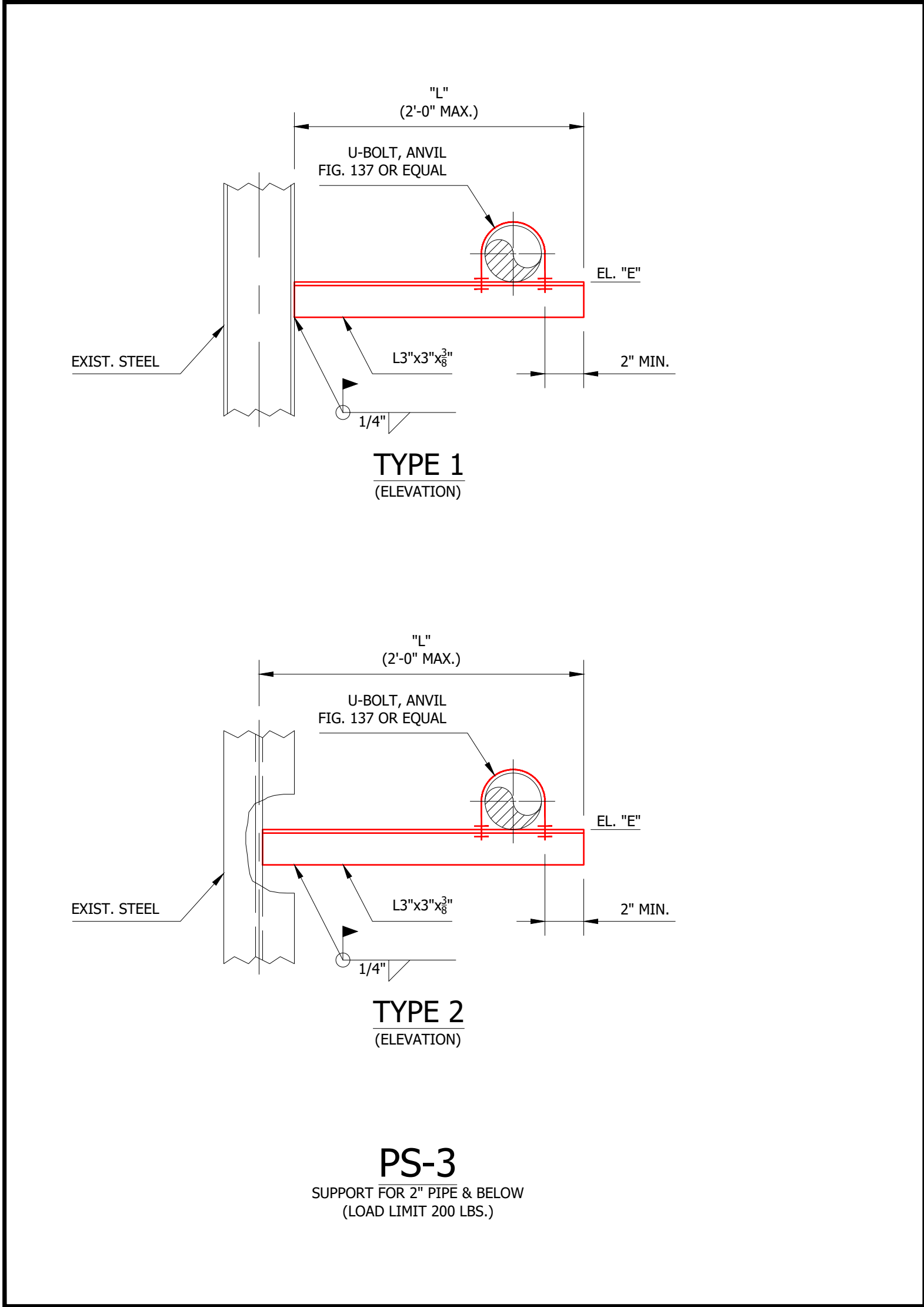
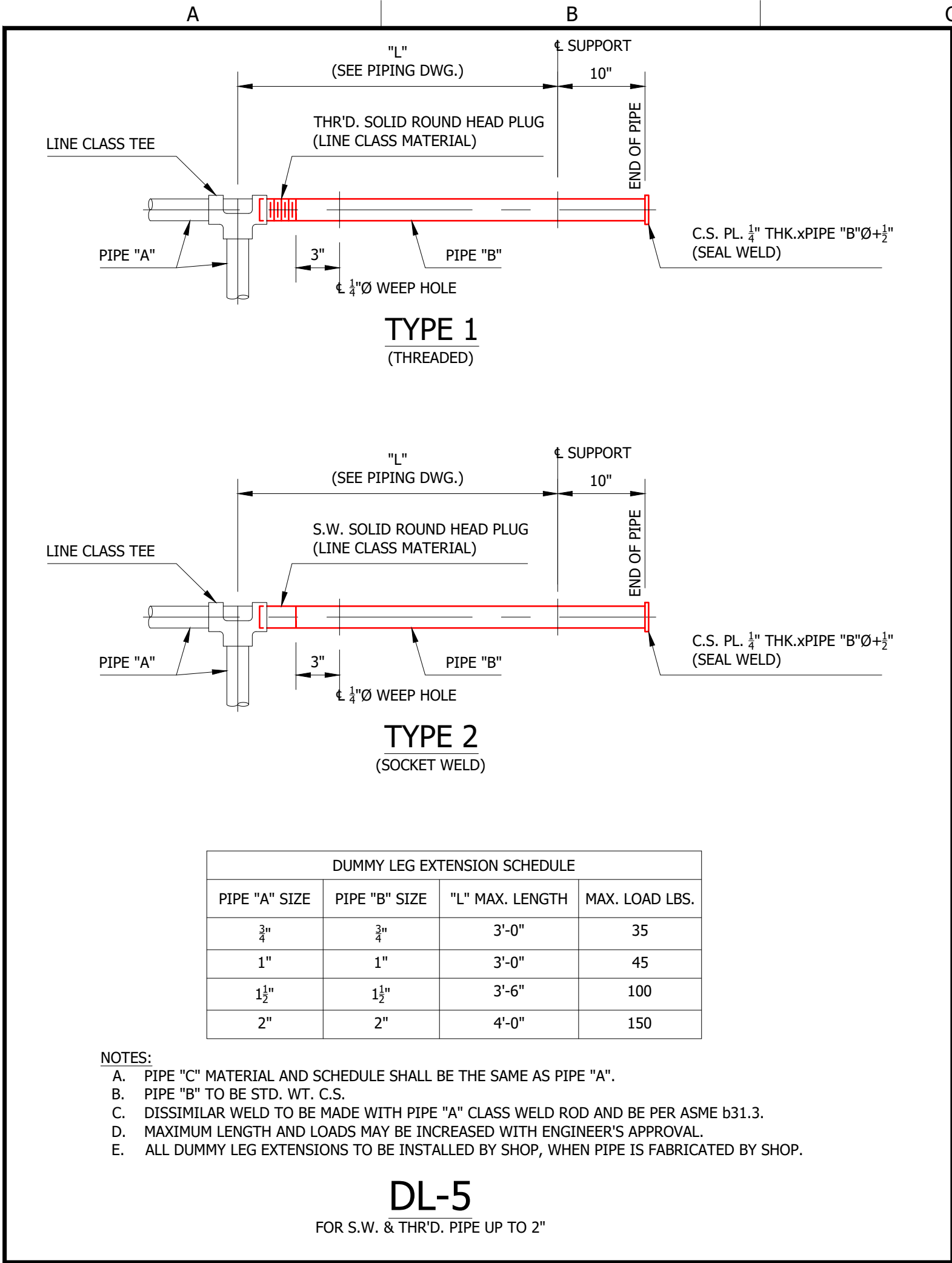
Project: _____
Date: _____

Dwg Size:

24x36

Development:

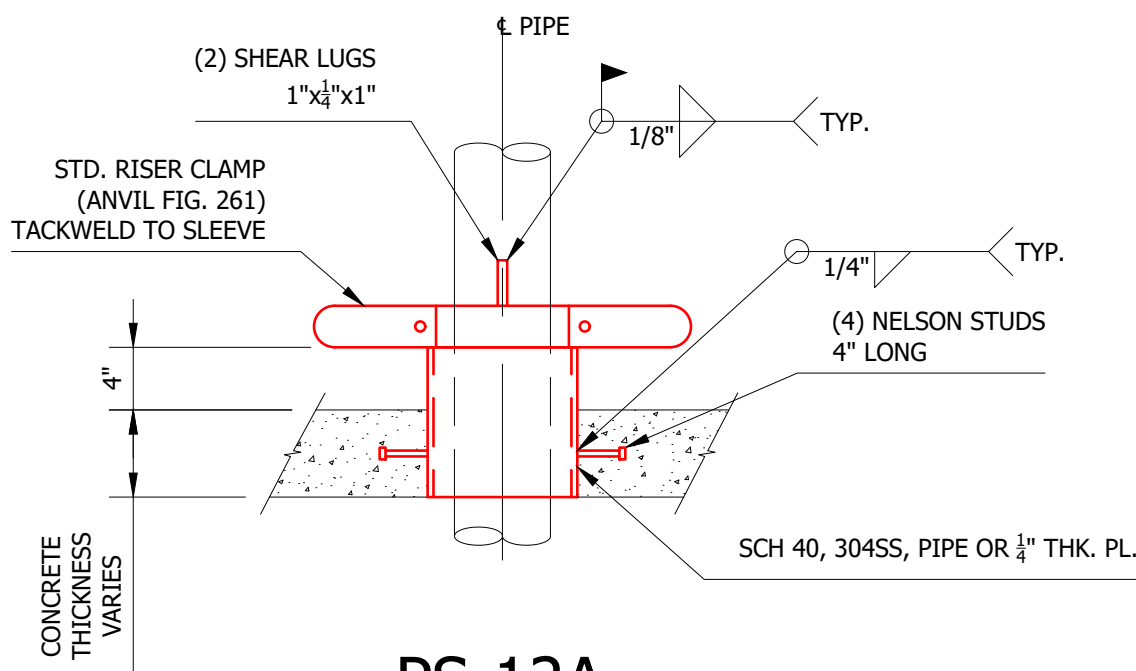
REVISION:
B



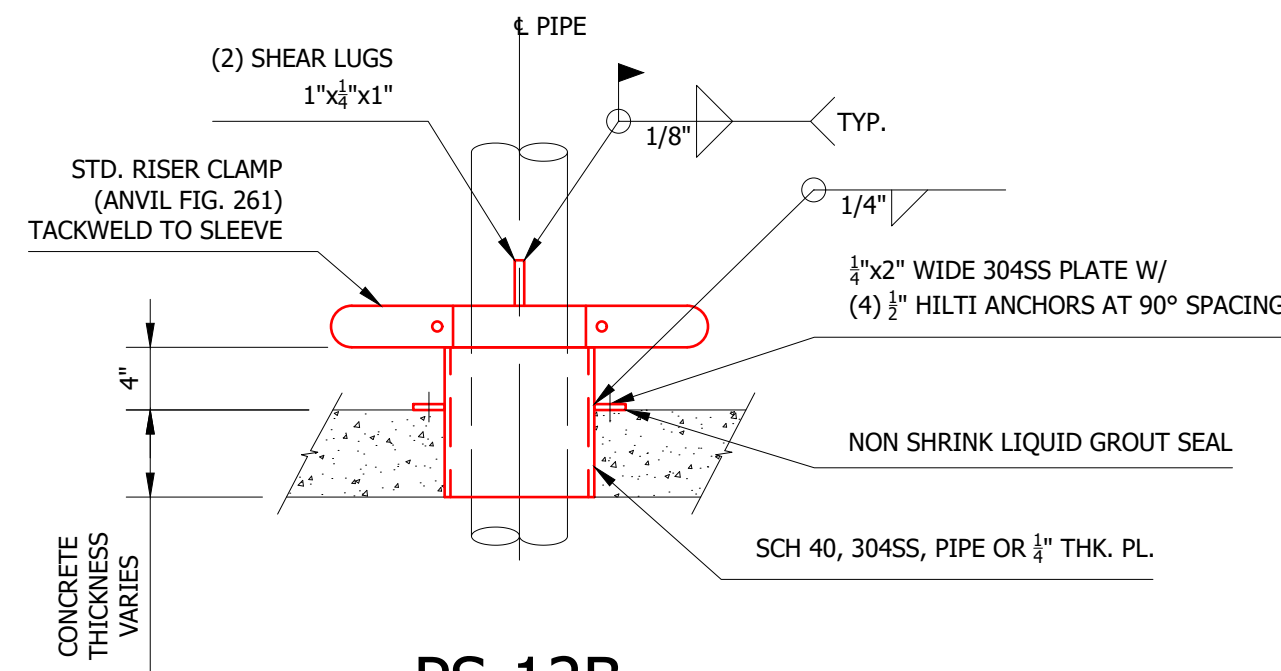
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FLOOR PENETRATION SIZE		
PIPE SIZE	DIA. OF HOLE	MAX LOAD (LBS.)
3/4"	3"	220
1"	4"	
1 1/2"	4"	
2"	5"	
2 1/2"	5"	
3"	6"	500
4"	7"	
6"	9"	
8"	11"	
10"	13"	
12"	15"	2700
14"	16"	
16"	18"	
18"	20"	
20"	22"	
24"	26"	3200

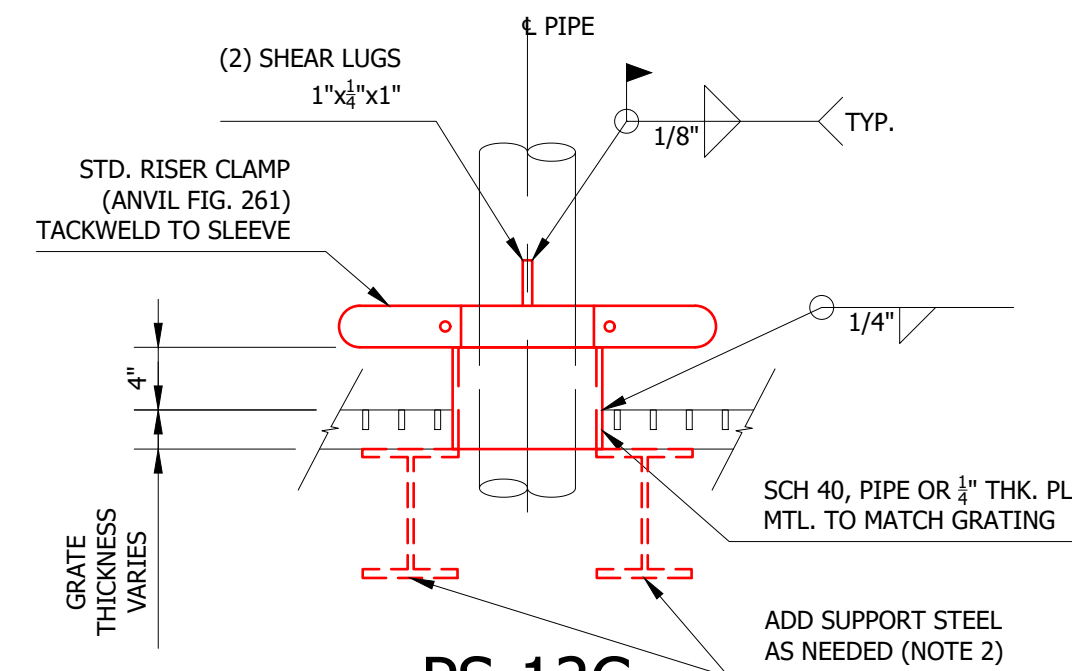
NOTES:
1. THE CHART REFERS TO UNINSULATED PIPE. WHEN PIPE IS INSULATED, THE THICKNESS OF INSULATION NEEDS TO BE ADDED TO HOLE DIAMETER.



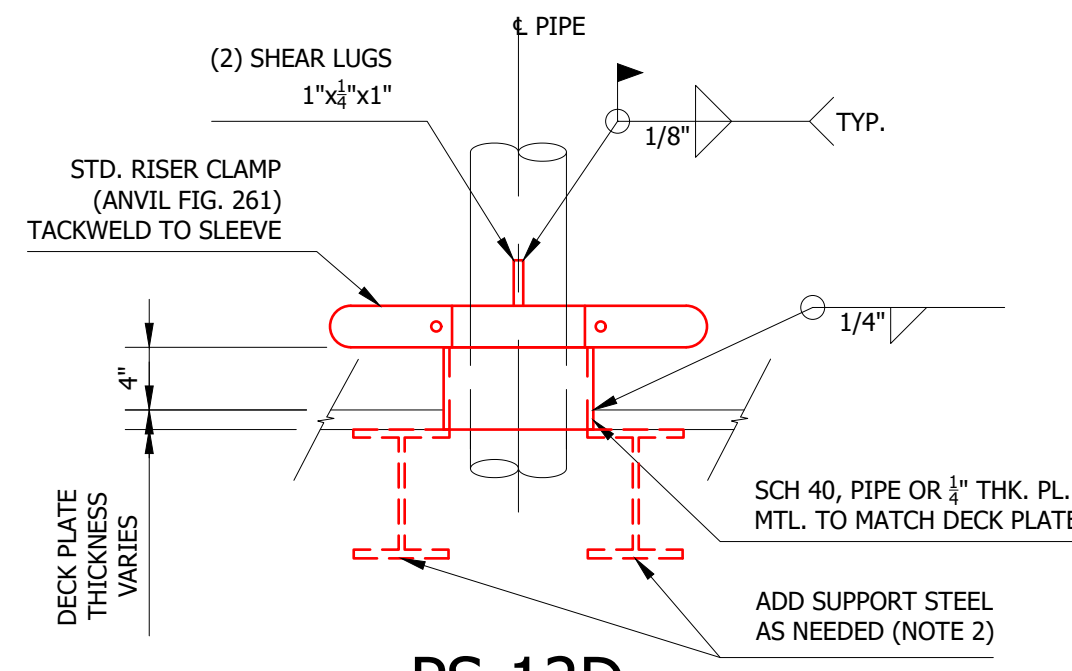
NOTES:
1. STAINLESS STEEL FLOOR SLEEVES SHALL BE CAST IN THE FLOOR. DO NOT CUT THE HOLE AFTER POURING THE CONCRETE FLOOR.



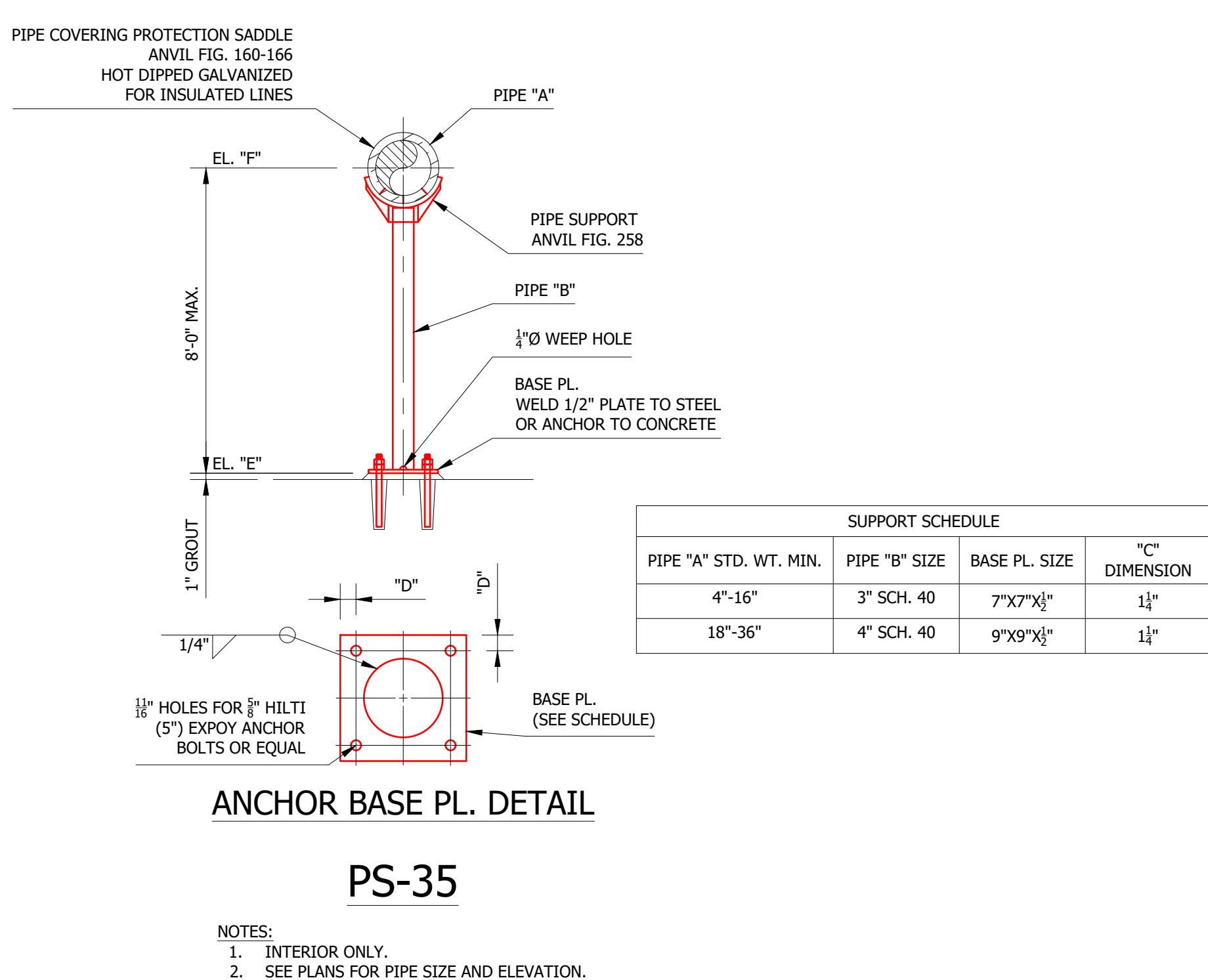
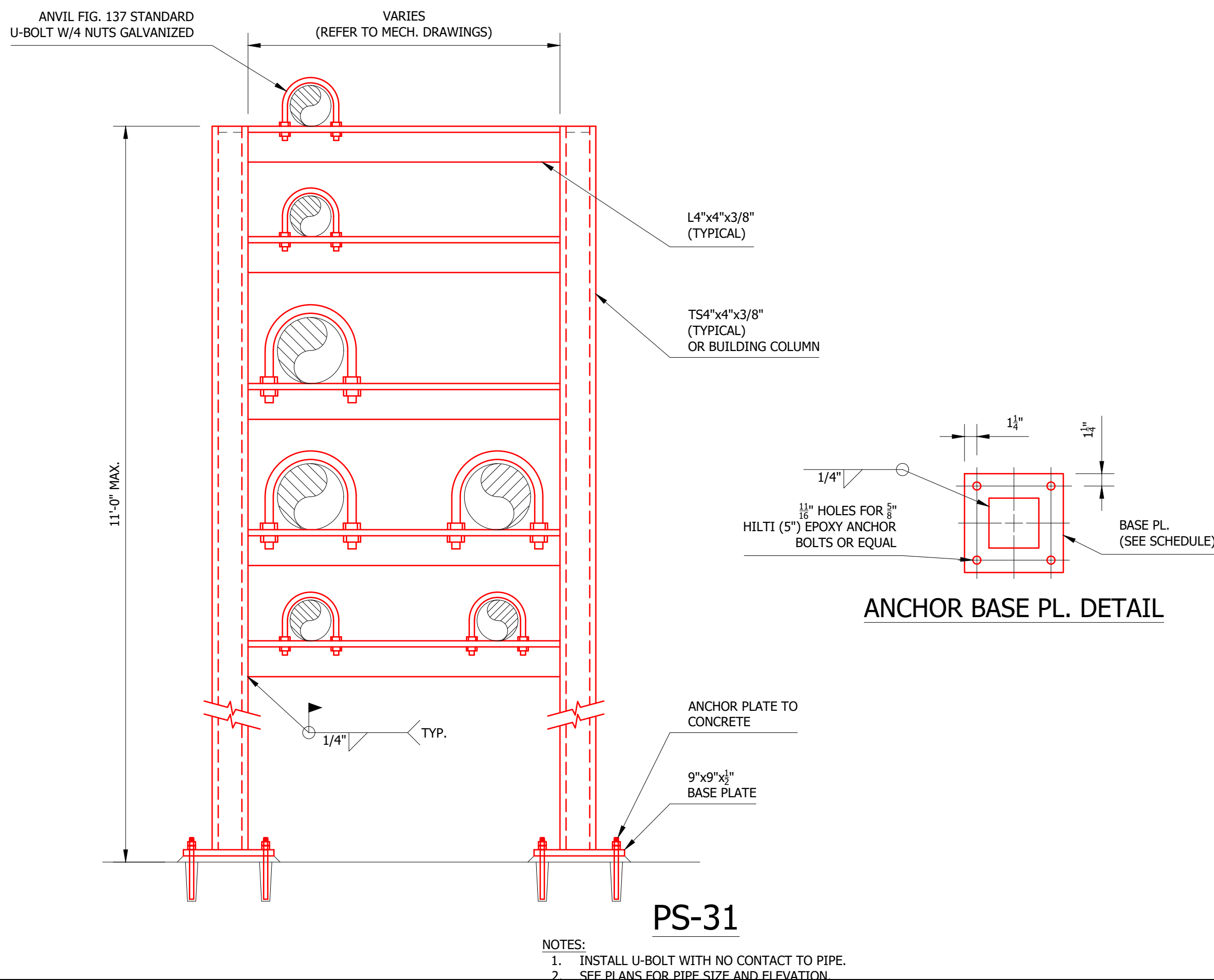
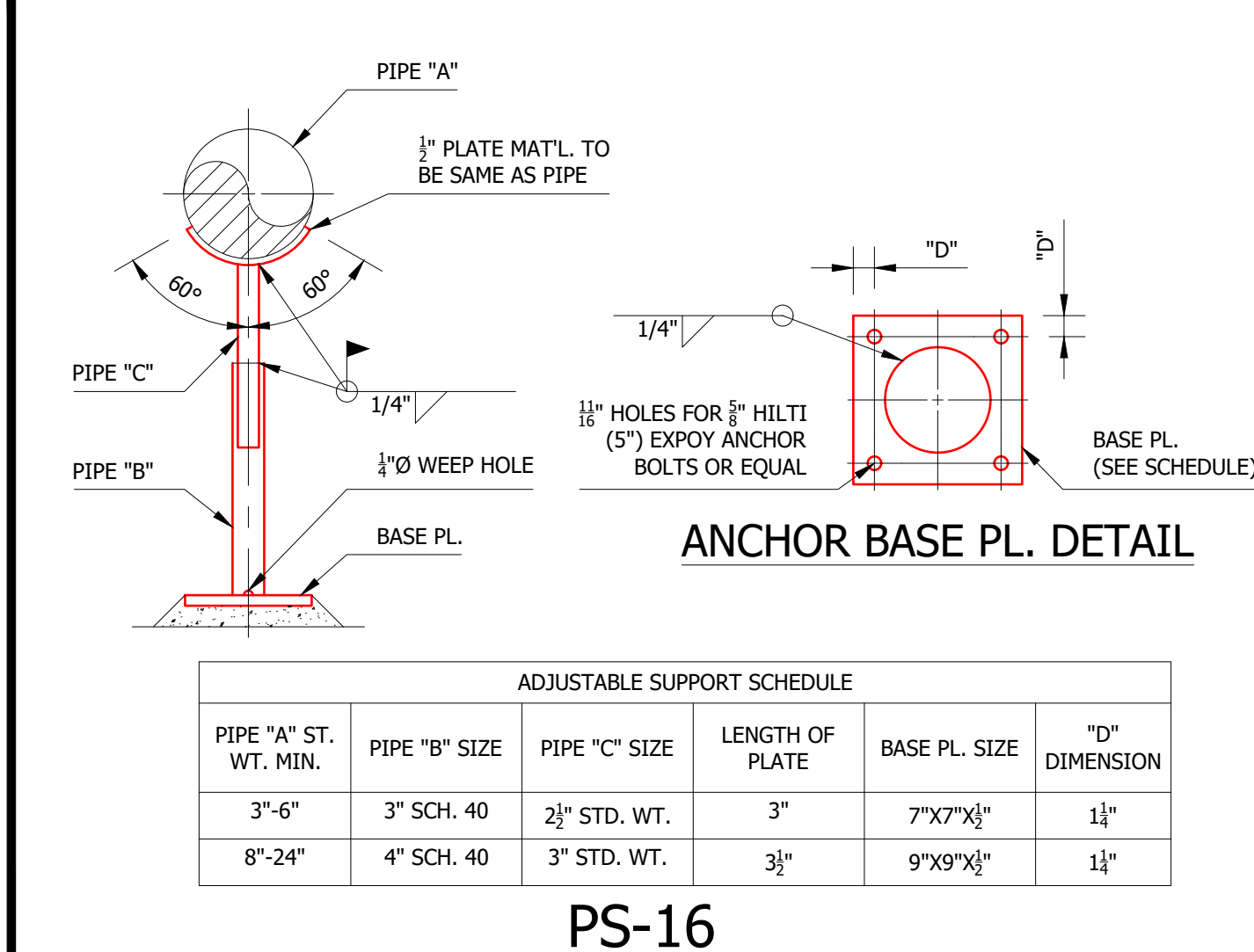
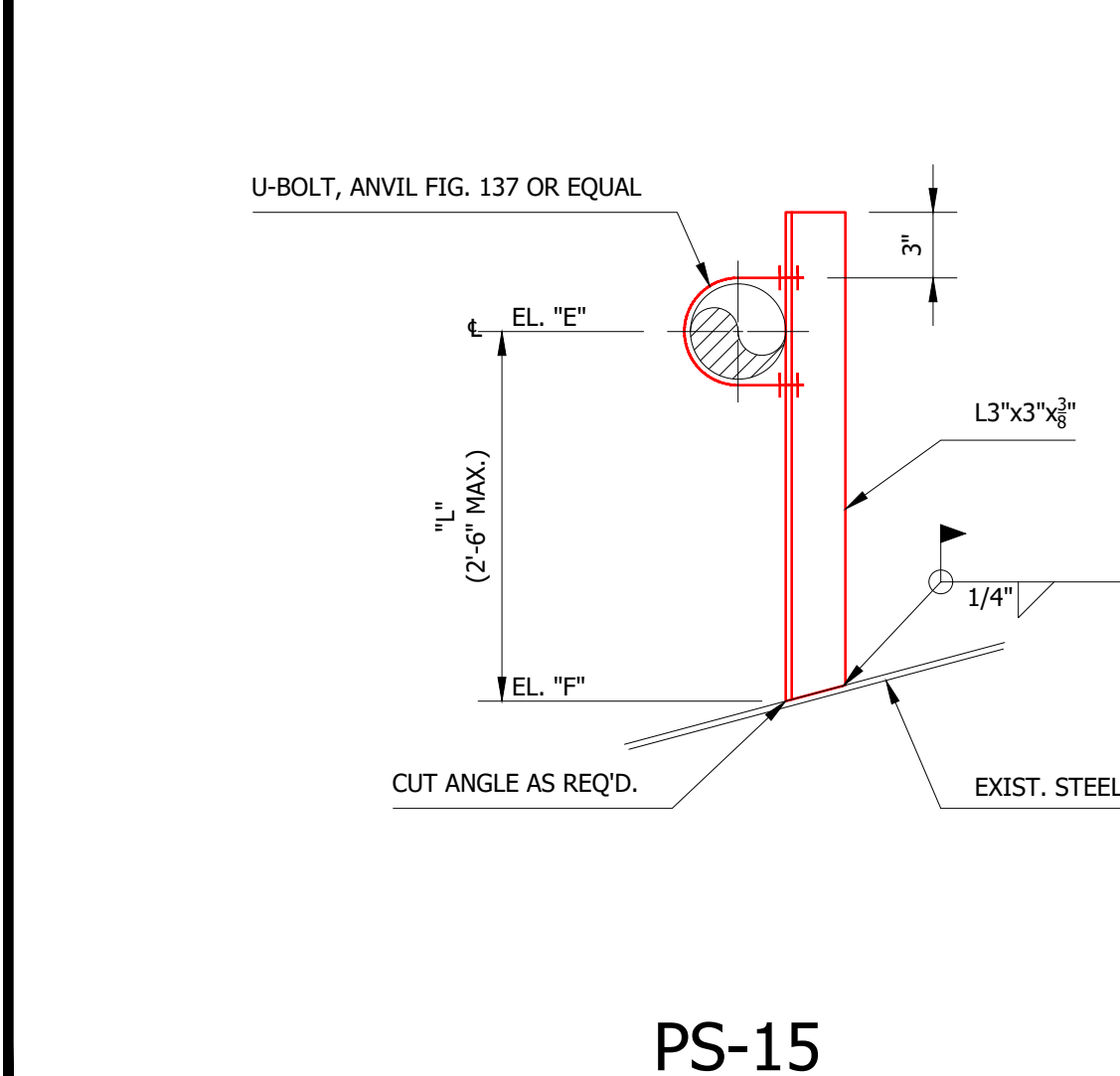
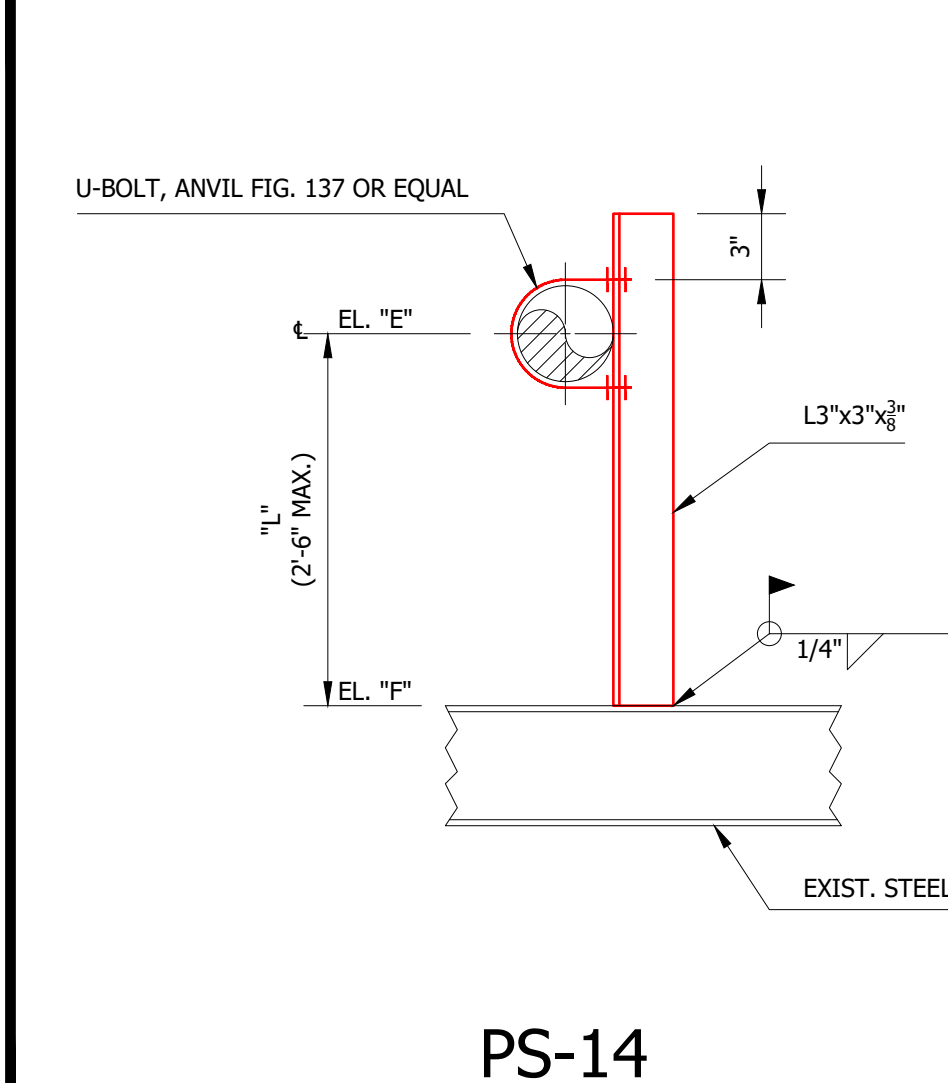
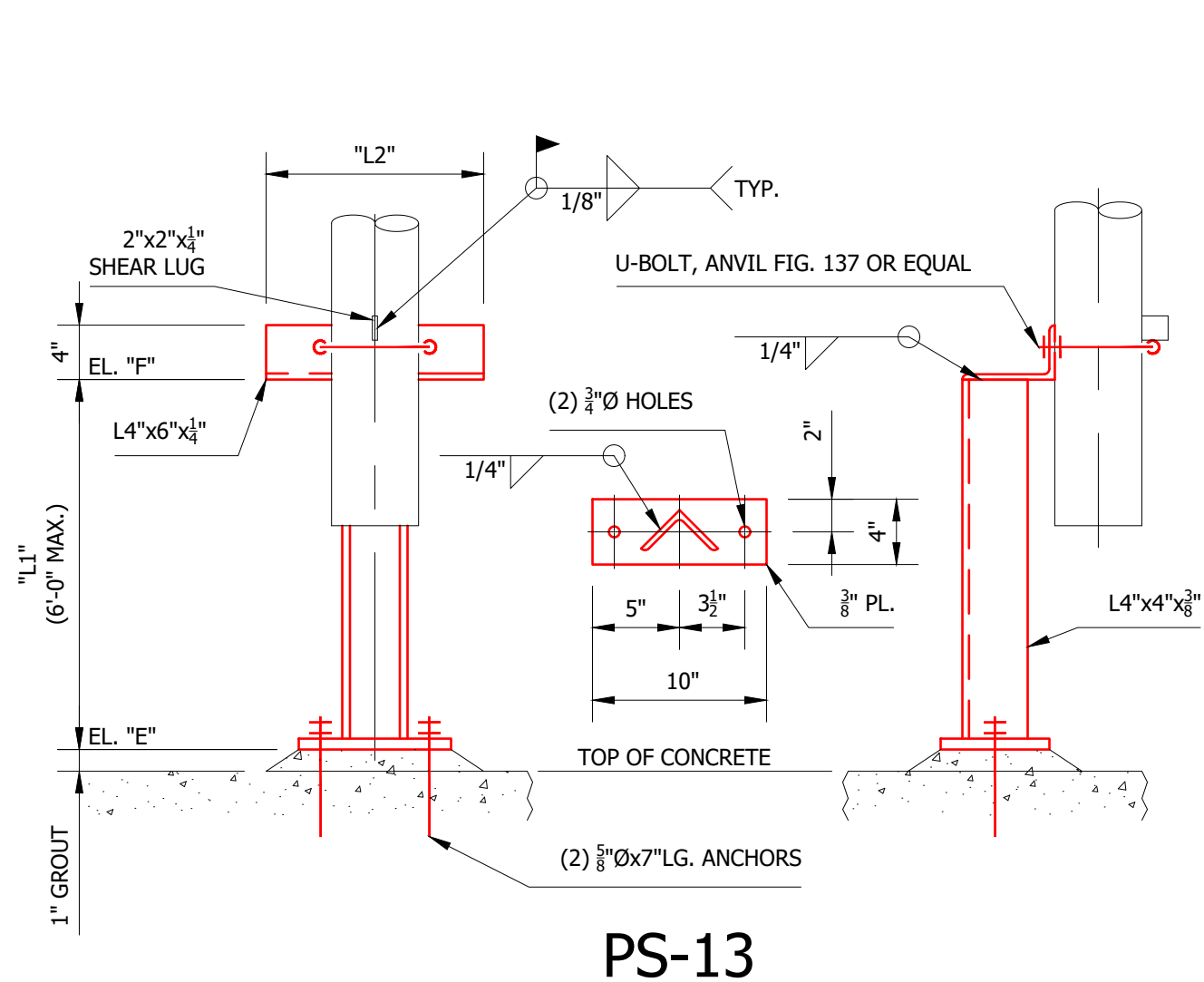
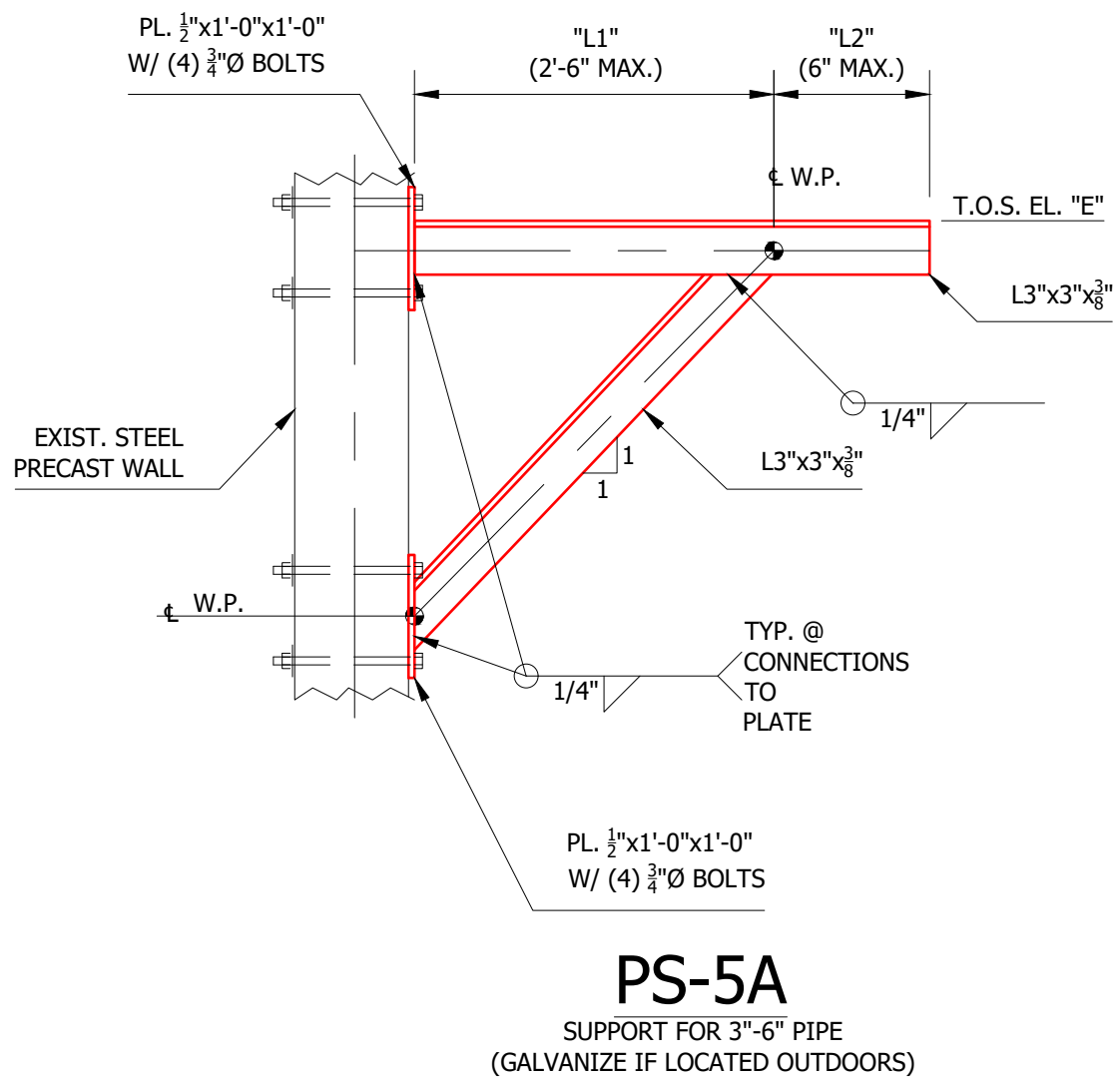
NOTES:
1. CORE DRILL CONCRETE FLOOR AS REQUIRED



NOTES:
1. FLAME OR SAW CUT OPENING FOR SLEEVE INSTALLATION. ANY REPAIR, INCLUDING PAINTING OR COLD GALVANIZING AT SLEEVE SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
2. FOR PIPE 8" AND LARGER, SUPPORT STEEL IS REQUIRED BELOW GRATING IF A RISER-CLAMP IS USED FOR SUPPORT. VERIFY SUPPORT STEEL SIZING WITH STRUCTURAL ENGINEER.



NOTES:
1. FLAME OR SAW CUT OPENING FOR SLEEVE INSTALLATION. ANY REPAIR, INCLUDING PAINTING OR COLD GALVANIZING AT SLEEVE SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
2. FOR PIPE 8" AND LARGER, SUPPORT STEEL IS REQUIRED BELOW DECK PLATE IF A RISER-CLAMP IS USED FOR SUPPORT. VERIFY SUPPORT STEEL SIZING WITH STRUCTURAL ENGINEER.



PRELIMINARY NOT FOR CONSTRUCTION 2025.06.23				ISSUE FOR BI Revision		Ad. No.
No.	Date	By				
A	2025.06.23	MLW				

VEI Project No: E24140

One Galleria Blvd, Suite 1900
Metairie, LA 70001
Ph: 917.822.7982
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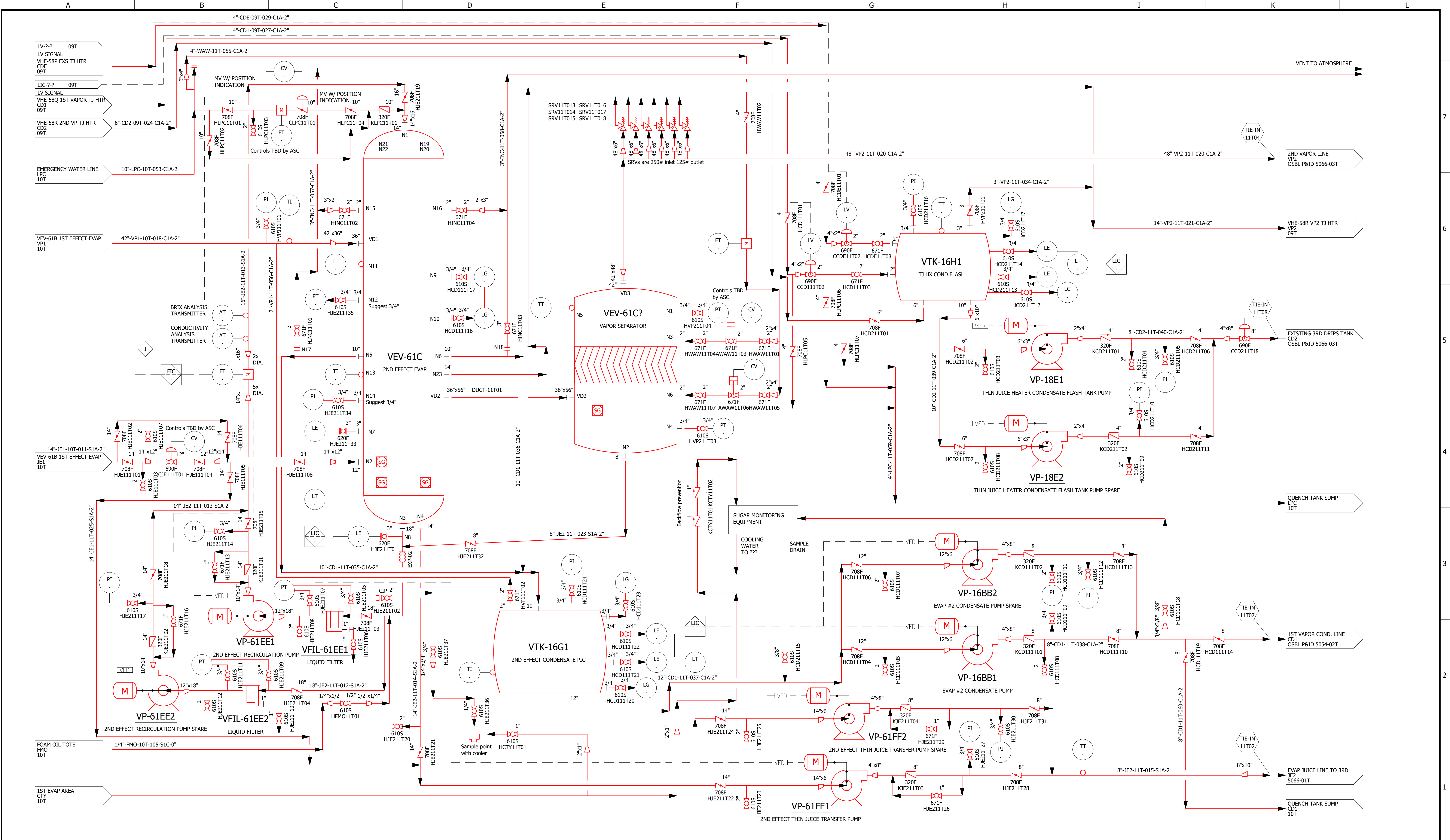
Title: AMALGAMATED SUGAR COMPANY
THIN JUICE EVAPORATOR PROJECT
MECHANICAL PIPE SUPPORT DETAILS SHT 5

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

Date: 2025.06.23
Chkd By: SC
Dsgn By: MLW

Project: E24140
Dwg: M69

Dwg Set: 24x36
Revision: 8



LINE LEGEND

NEW

EXIST

1	2025.06.23	SC	ISSUE FOR BID
No.	Date	By	Revision

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Ph: 701.277.8300, Fax: 701.277.9300
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Title:
2ND EFFECT EVAPORATOR
PIPING AND INSTRUMENTATION DIAGRAM

THE AMALGATED SUGAR COMPANY
1951 S SATURN WAY, SUITE 100
BOISE, IDAHO 83709

Date: 2025.01.17
Chkd By: JPL
Dsgn By: SC

Project: E24140
Dwg: 5066-11T

Dwg Sht: 24/36

Revision: