

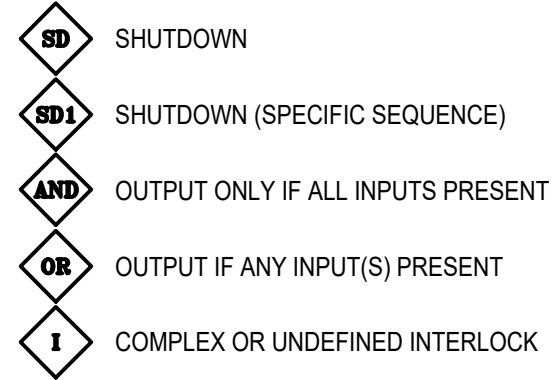
**INSTRUMENT IDENTIFICATION LETTERS**

AA	ALARM ANALYZER
AAH	ALARM ANALYZER HIGH
AC	ANALYSIS CONTROLLER
AE	ANALYSIS ELEMENT
AET	ANALYSIS ELEMENT TRANSMITTER
AI	ANALYSIS INDICATOR
AIC	ANALYSIS INDICATING CONTROLLER
AP	ANALYSIS POINT
AT	ANALYSIS TRANSMITTER
BAH	FIRE ALARM HIGH
BE	FIRE ELEMENT
BI	BTU INDICATOR
BS	FIRE DETECTOR SWITCH
BSH	FIRE DETECTOR SWITCH HIGH
DE	DENSITY (OR SPECIFIC GRAVITY) ELEMENT
DI	DENSITY (OR SPECIFIC GRAVITY) INDICATOR
DPI	DIFFERENTIAL PRESSURE INDICATOR
DR	DENSITY (OR SPECIFIC GRAVITY) RECORDER
DT	DENSITY (OR SPECIFIC GRAVITY) TRANSMITTER
ESD	EMERGENCY SHUT DOWN
FA	FLOW ALARM
FAH	FLOW ALARM HIGH
FAHH	FLOW ALARM HIGH HIGH
FC	FLOW CONTROLLER
FCV	FLOW CONTROL VALVE
FE	FLOW ELEMENT
FG	FLOW INDICATOR SIGHT GLASS
FI	FLOW INDICATOR
FIC	FLOW INDICATING CONTROLLER
FIS	FLOW INDICATING SWITCH
FIT	FLOW INDICATING TRANSMITTER
FHC	FLOW MANUAL CONTROL
FO	RESTRICTION ORIFICE
FQ	FLOW TOTALIZER
FQI	FLOW TOTALIZING INDICATOR
FQIS	FLOW QUANTITY INDICATOR SWITCH
FQR	FLOW TOTALIZING RECORDER
FR	FLOW RECORDER
FRC	FLOW RECORDING CONTROLLER
FS	FLOW SWITCH
FSH	FLOW SWITCH HIGH
FSHH	FLOW SWITCH HIGH HIGH
FT	FLOW TRANSMITTER
FV	FLOW CONTROL VALVE
FY	FLOW COMPUTER OR RELAY
HC	HAND CONTROL
HCV	HAND CONTROL VALVE
HIC	HAND INDICATING CONTROLLER
HMS	HAND MOTOR SWITCH
HS	HAND SWITCH
HSC	HAND SWITCH CLOSE
HSO	HAND SWITCH OPEN
HV	HAND VALVE
LA	LEVEL ALARM
LAL	LEVEL ALARM LOW
LAH	LEVEL ALARM HIGH
LAHH	LEVEL ALARM HIGH HIGH
LC	LEVEL CONTROLLER
LCS	LEVEL CONTROL SWITCH
LCV	LEVEL CONTROL VALVE
LG	LEVEL GAUGE GLASS
LHC	LEVEL MANUAL CONTROL
LI	LEVEL INDICATOR (OTHER THAN LG)
LIC	LEVEL INDICATING CONTROLLER
LIT	LEVEL INDICATING TRANSMITTER
LR	LEVEL RECORDER
LS	LEVEL SWITCH
LSH	LEVEL SWITCH HIGH
LSHH	LEVEL SWITCH HIGH HIGH
LT	LEVEL TRANSMITTER
LV	LEVEL CONTROL VALVE
LY	LEVEL RELAY
MA	MOISTURE ALARM
ME	MOISTURE ELEMENT
MC	MOISTURE CONTROLLER
MNT	MOISTURE ANALYZER / TRANSMITTER
MOV	MOTOR OPERATED VALVE
MR	MOISTURE RECORDER
MS	MOISTURE SWITCH
MT	MOISTURE TRANSMITTER
PA	PRESSURE ALARM
PAH	PRESSURE ALARM HIGH
PAHH	PRESSURE ALARM HIGH HIGH
PC	PRESSURE CONTROLLER
PCV	PRESSURE CONTROL VALVE
PD	PRESSURE DIFFERENTIAL ALARM HIGH
PDI	PRESSURE DIFFERENTIAL INDICATOR
PDIC	PRESSURE DIFFERENTIAL INDICATING CONTROLLER
PDIS	PRESSURE DIFFERENTIAL INDICATING SWITCH
PDI	PRESSURE DIFFERENTIAL INDICATING TRANSMITTER
PDR	PRESSURE DIFFERENTIAL RECORDER
PDS	PRESSURE DIFFERENTIAL SWITCH
PDSH	PRESSURE DIFFERENTIAL SWITCH HIGH
PDSHH	PRESSURE DIFFERENTIAL SWITCH HIGH HIGH
PDT	PRESSURE DIFFERENTIAL TRANSMITTER
PHC	PRESSURE MANUAL CONTROL
PI	PRESSURE INDICATOR
PIC	PRESSURE INDICATING CONTROLLER

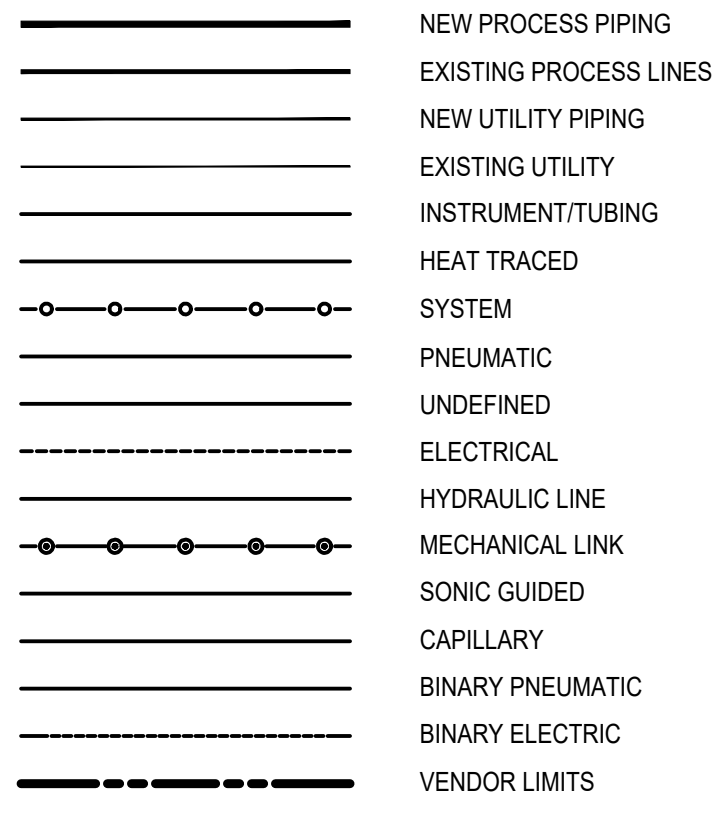
ALARMS, SWITCHES, AND ANNUNCIATORS MAY HAVE SUFFIX LETTERS AS FOLLOWS:

L	LOW	DENOTES ALARM ONLY
LL	EXTRA LOW	DENOTES SHUTDOWN
H	HIGH	DENOTES ALARM ONLY
HH	EXTRA HIGH	DENOTES SHUTDOWN

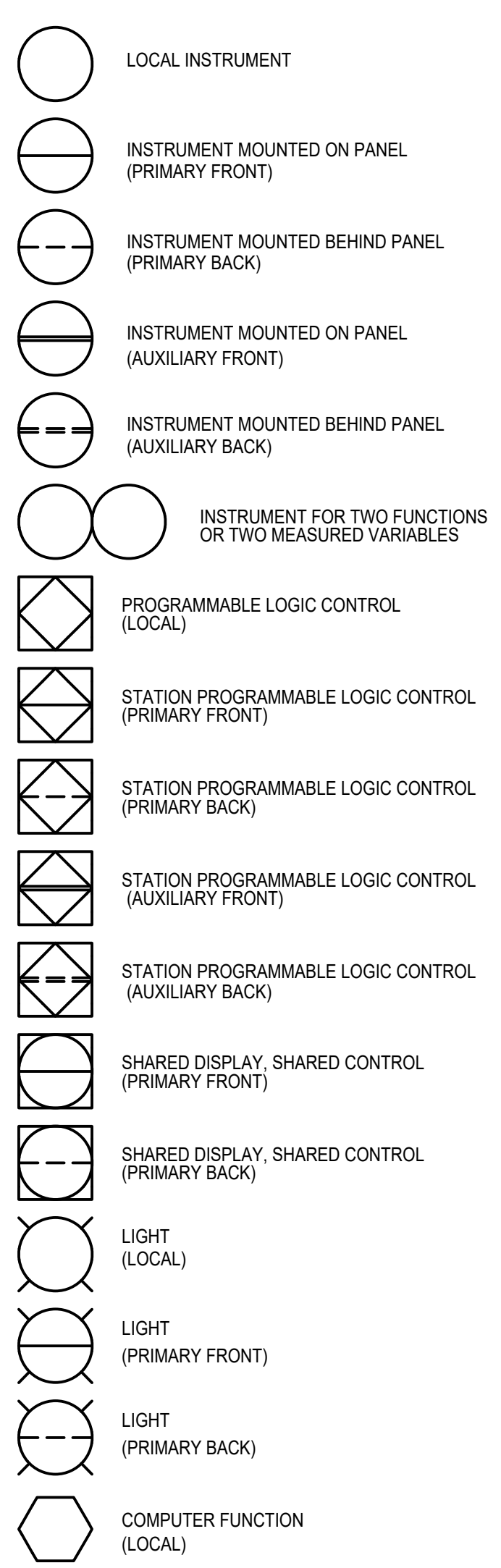
**INTERLOCK LOGIC**



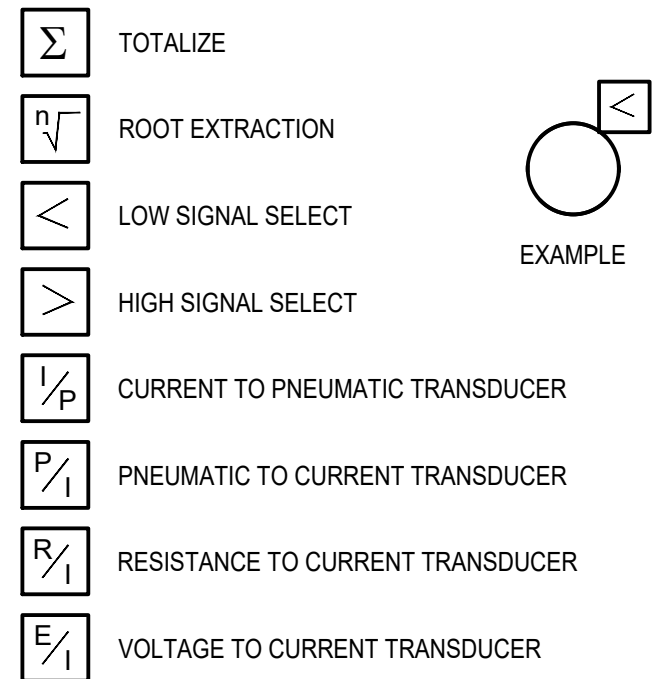
**LINE SYMBOLS**



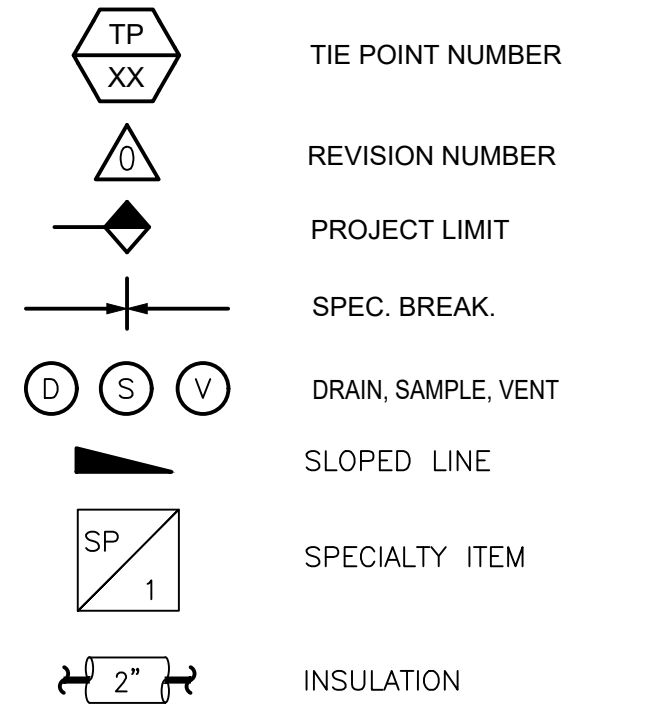
**INSTRUMENT SYMBOLS**



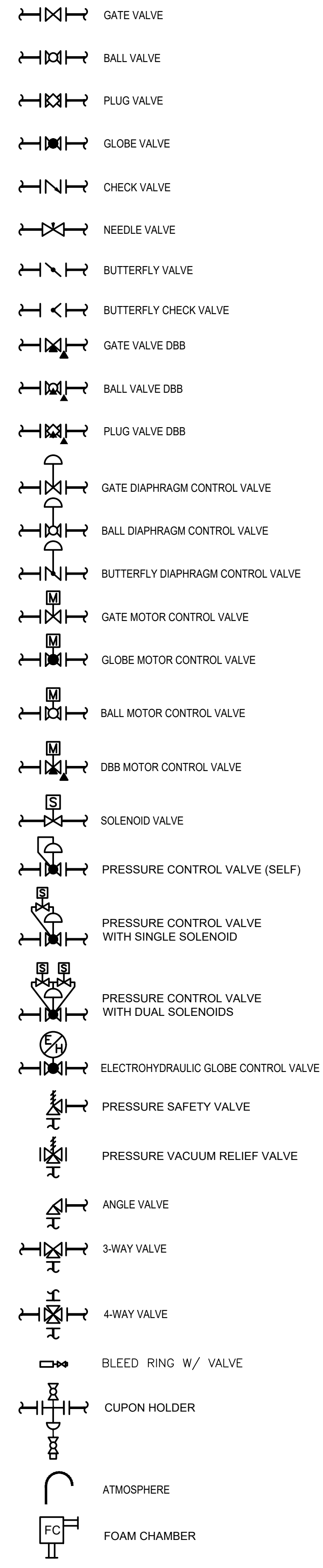
**RELAY FUNCTIONS**



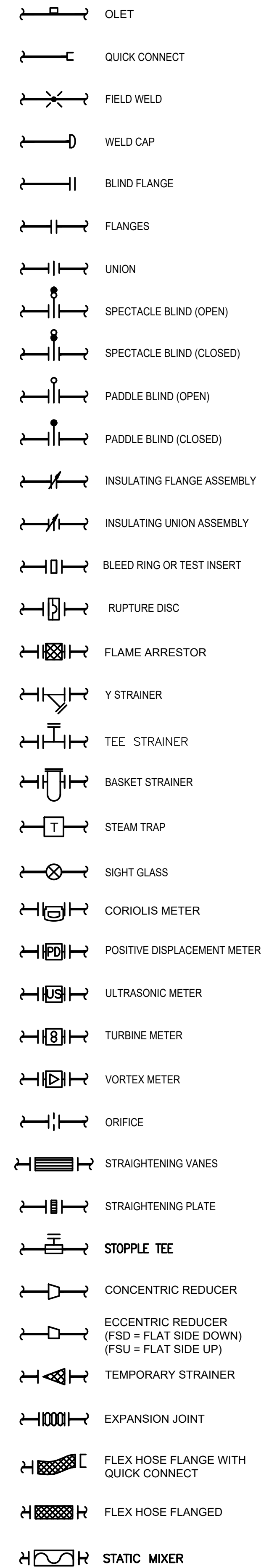
**MISCELLANEOUS SYMBOLS**



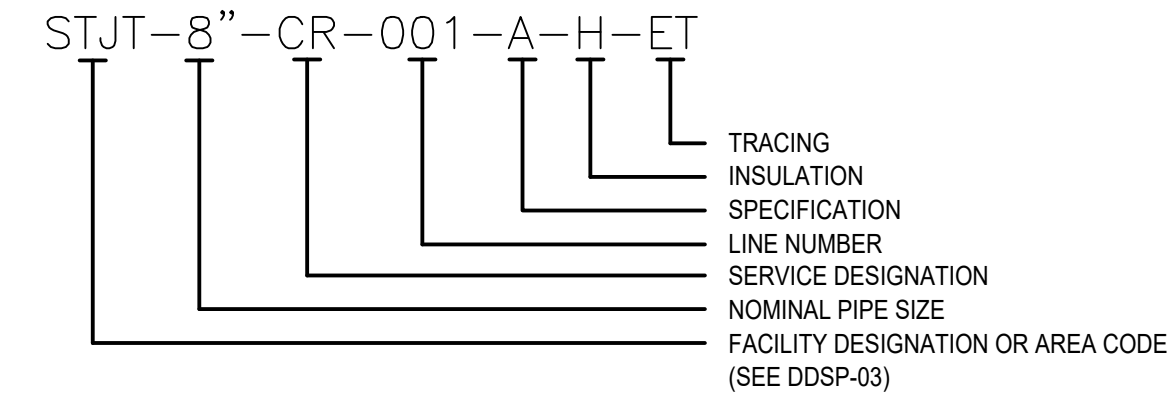
**VALVE SYMBOLS**



**PIPING SYMBOLS**



**LINE IDENTIFICATION**



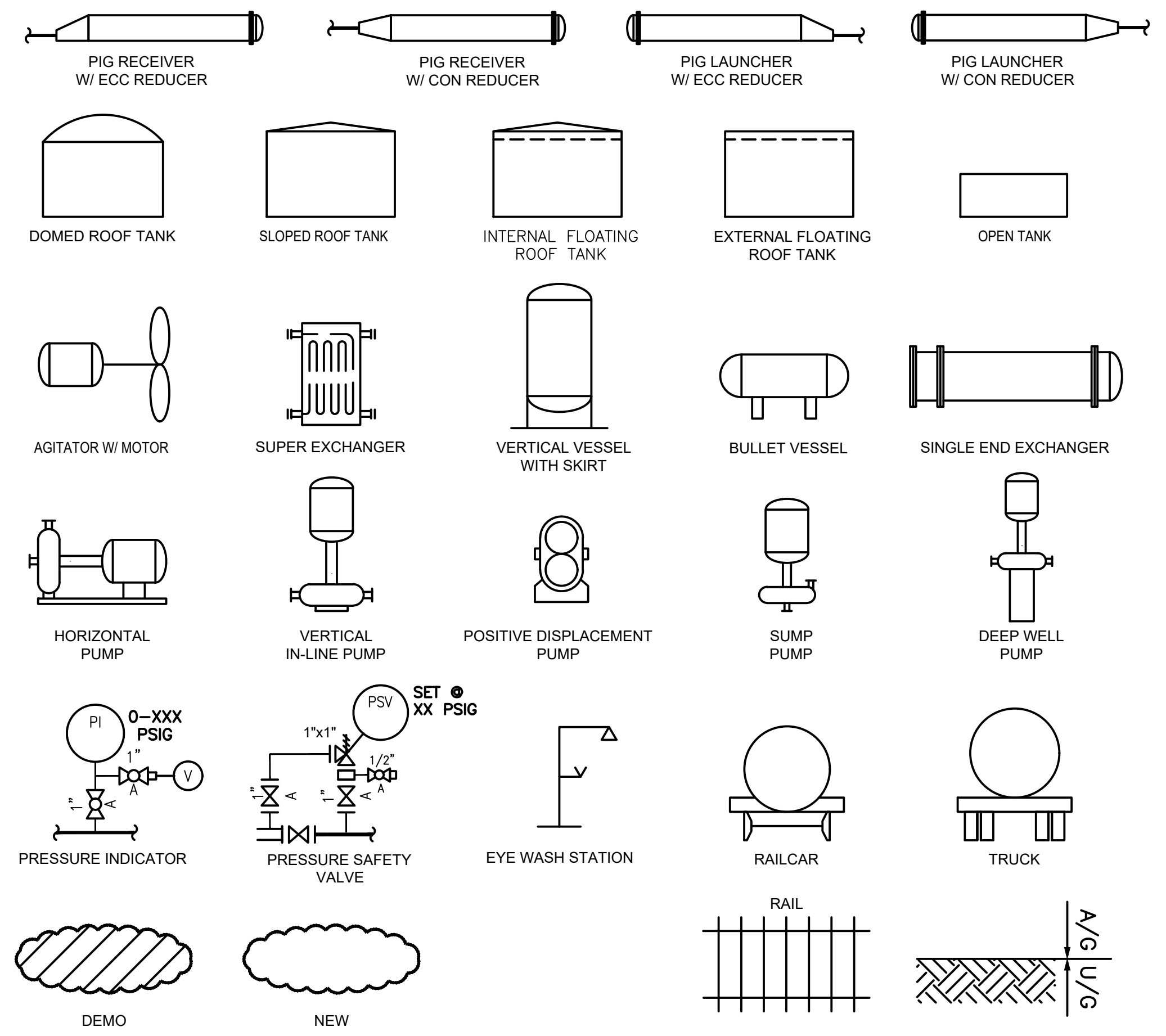
**MISC. ABBREVIATIONS**

ATM	ATMOSPHERE
CSC	CAR SEAL CLOSED
CSO	CAR SEAL OPEN
FC	FAIL CLOSED
FL	FAIL IN LAST POSITION
FO	FAIL OPEN
LC	LOCK CLOSED
LO	LOCK OPEN
MCC	MOTOR CONTROL CENTER
PD	POSITIVE DISPLACEMENT
R	RESET
RA	REVERSE ACTING
RTD	RESISTANCE TEMPERATURE DET.
RTU	REMOTE TERMINAL UNIT
SP	SET POINT
TMS	TERMINAL MANAGEMENT SYSTEM

**LINE SERVICE DESIGNATIONS**

<b>HYDROCARBONS</b>		<b>UTILITIES</b>	
AH	ASPHALT	CD	CLOSED DRAIN
AVG	AVIATION GASOLINE	CN	CONDENSATE
BD	BIO DIESEL	FG	FUEL GAS
BU	BUTANE	FW	FIRE WATER
CR	CRUDE OIL	HO	HEATING OIL
CSO	SOUR CRUDE	IA	INSTRUMENT AIR
CSW	SWEET CRUDE	LM	LPG TRANS MIX
DI	DIESEL	LO	LUBE OIL
ET	ETHANOL	NI	NITROGEN
FO	FUEL OIL	OD	OPEN DRAIN
HSD	HIGH SULFUR DIESEL	OW	OILY WATER
JF	JET FUEL	PA	PLANT AIR
LPG	LIQUEFIED PETROLEUM GAS	PW	POTABLE WATER
LSD	LOW SULFUR DIESEL	SO	SEAL OIL
METH	METHANOL	ST	STEAM
MTBE	MTBE	SW	SEWER
NGL	NATURAL GAS LIQUIDS	TL	TOLUENE
NH3	AMMONIA	TM	TRANS MIX
PU	PREMIUM UNLEADED	UG	UTILITY GAS
PR	PREM OR REGULAR UNL	UW	UTILITY WATER
RFO	REFINED FUEL OIL	VPR	VAPOR
RP	REFINED PRODUCTS	XY	XYLENE
UL	REGULAR UNLEADED		
VGO	VACUUM GAS OIL		

**STANDARD EQUIPMENT SYMBOLS (NOT ALL SHOWN)**



**NOTES:**  
1) CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION AND INSTALLATION.

**REFERENCE DRAWINGS:**  
STOT-64-025 REMOTE I/O CABINET RIO-1

2	ISSUED FOR CONSTRUCTION PER PROJECT CW_0001095	BEA	9/9/19	M.C.	A.D.
1	ISSUED FOR CONSTRUCTION PER PROJECT CW_00410	BLADE	9/6/18	AD	GD
0	ISSUED FOR CONSTRUCTION PER PROJECT CW_00317	BLADE	1/18/18	AD	GD
<b>NO.</b>	<b>REVISION</b>	<b>BY</b>	<b>DATE</b>	<b>APR</b>	

<b>PROJECT LOCATION:</b>	
<b>DRAWN BY:</b>	<b>DATE:</b> 1/18/18
<b>CHECKED:</b>	<b>DATE:</b> 1/18/18
<b>APPROVED:</b>	<b>DATE:</b> 1/18/18
<b>SCALE:</b> NONE	

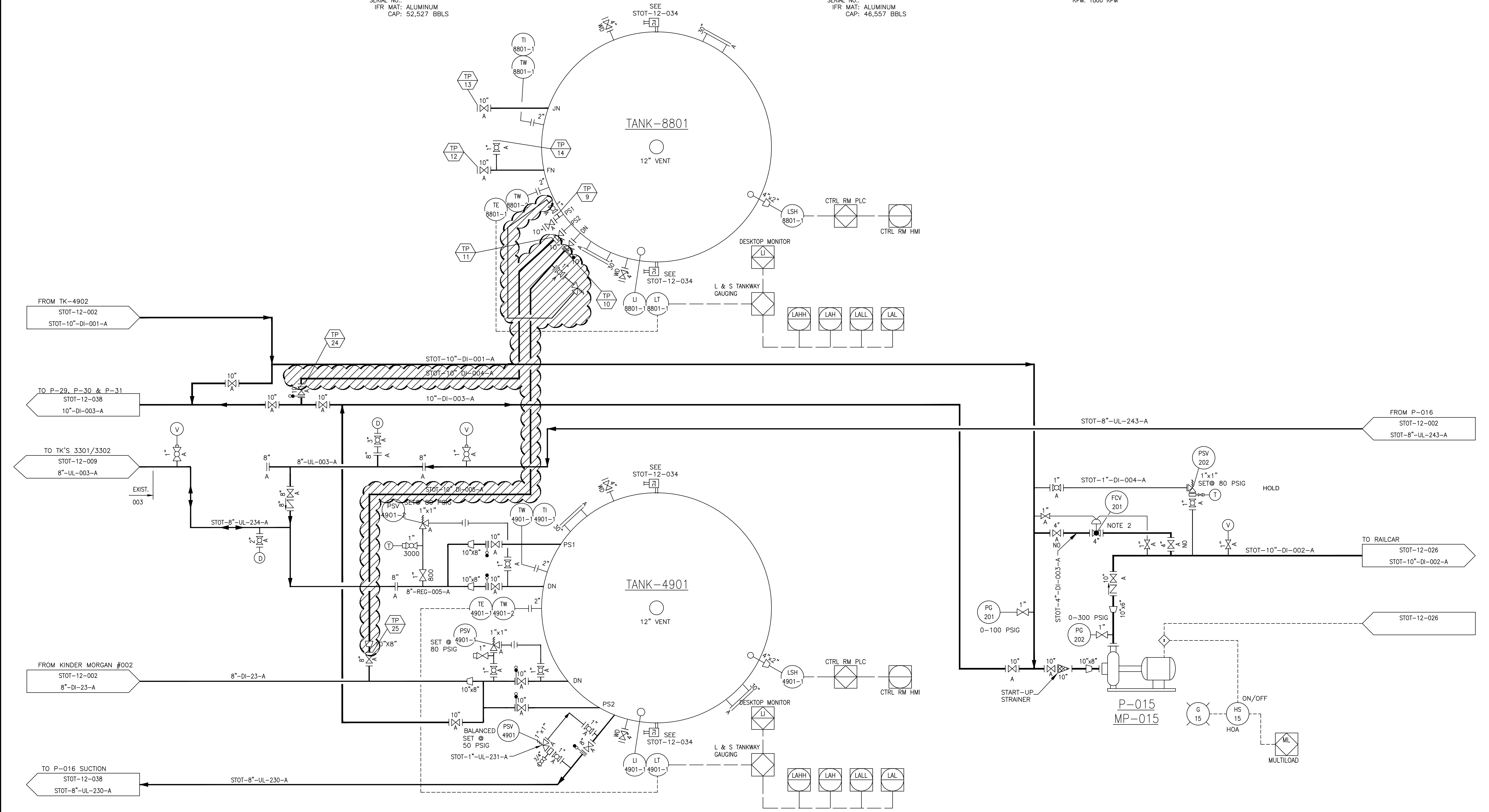
<b>STOCKTON TERMINAL ELECTRICAL LEGEND AND SYMBOLS</b>	
<b>ORIGINAL PROJECT NO. CW_00317</b>	
<b>DRAWING NO. STOT-02-002</b>	<b>REV. 2</b>

**TK-8801**  
 SERVICE: DIESEL  
 OD: 114.5 FT  
 HEIGHT: 48 FT  
 MATERIAL: CARBON STEEL  
 SERIAL NO.:  
 IFR MAT: ALUMINUM  
 CAP: 52,527 BBLS

**TK-4901**  
 SERVICE: UNLEADED  
 OD: 86 FT  
 HEIGHT: 48 FT  
 MATERIAL: CARBON STEEL  
 SERIAL NO.:  
 IFR MAT: ALUMINUM  
 CAP: 46,557 BBLS

**P-015**  
 SERVICE: DIESEL  
 CAPACITY: 1200 GPM  
 DISCHARGE: 8"x6"  
 SIZE:  
 RPM: 1800 RPM

**MP-015**  
 FRAME: 284T  
 RPM: 1200  
 HP: 15



**NOTES:**  
 1)

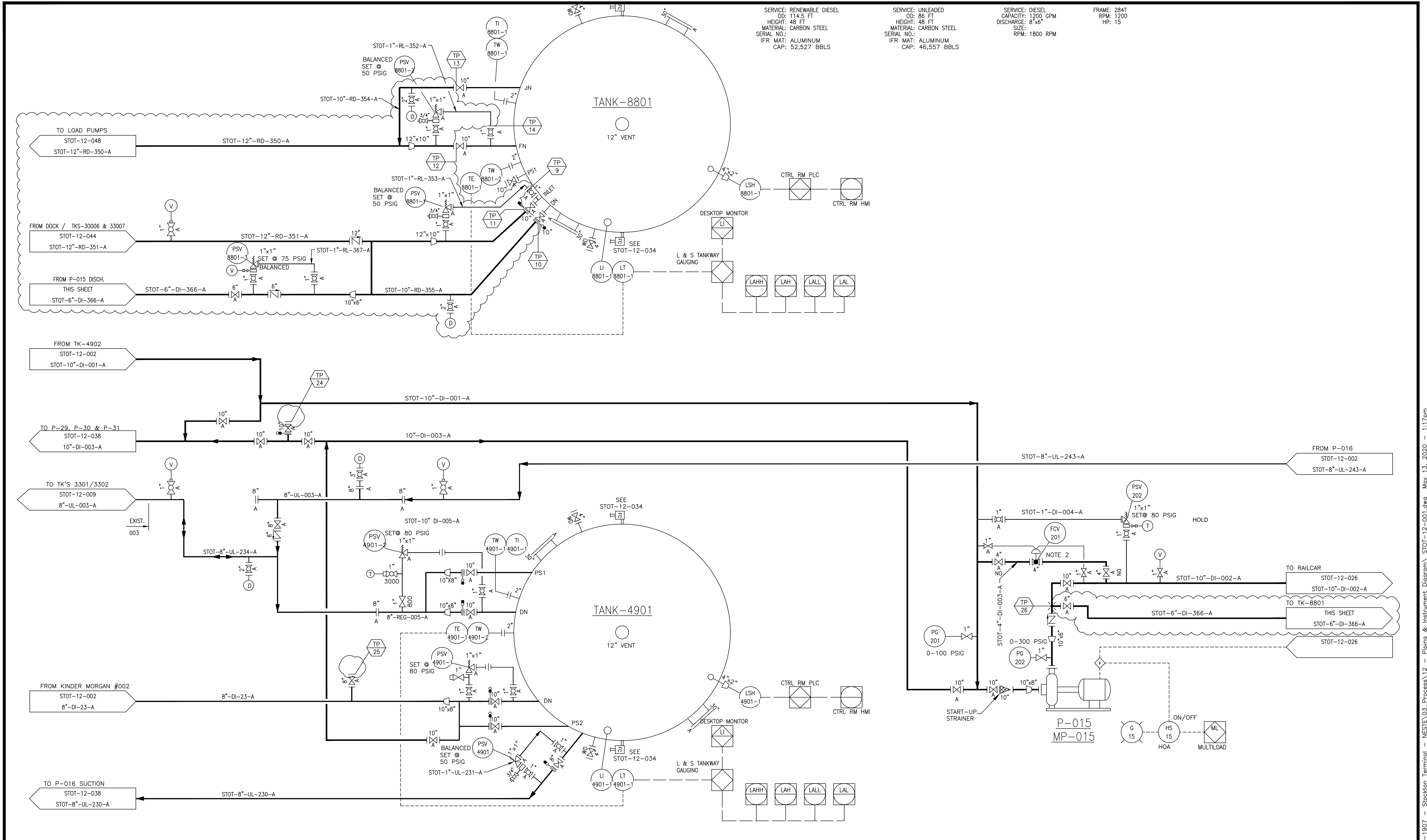
**REFERENCE DRAWINGS:**

8A	UPDATED PER DESIGN MODIFICATIONS, ADD TIE-INS -- WC_00410	KLV	12/03/18	JV	JR
7	IFR -- UPDATED PER DESIGN WC_00410	KLV	10/24/18	JV	JR
6	ISSUE FOR REVIEW FOR WC_00410	KLV	6/15/18		
9	UPDATE PER WC_00247	KLV	8/05/19	JV	JR
9A	UPDATED FOR	JBF	2/21/19	JV	JR

NO.	REVISION	BY	DATE	APR	
8A	UPDATED PER DESIGN MODIFICATIONS, ADD TIE-INS -- WC_00410	KLV	12/03/18	JV	JR
7	IFR -- UPDATED PER DESIGN WC_00410	KLV	10/24/18	JV	JR
6	ISSUE FOR REVIEW FOR WC_00410	KLV	6/15/18		
9	UPDATE PER WC_00247	KLV	8/05/19	JV	JR
9A	UPDATED FOR	JBF	2/21/19	JV	JR

**PROJECT LOCATION:**  
**DRAWN BY:** G. MCFARLAND **DATE:** 02/05/07  
**CHECKED:** S. CHAPLIN **DATE:** 02/05/07  
**APPROVED:** E. GANDANOZA **DATE:** 02/05/07  
**SCALE:** AS SHOWN

**STOCTON TERMINAL**  
**P&ID**  
**TANKS 4901 & 8801**  
**ORIGINAL PROJECT NO. WC\_00247**  
**DRAWING NO. STOT-12-001 DEMO** **REV. 9B**



SERVICE: RENEWABLE DIESEL  
 OD: 114.5 FT  
 HEIGHT: 45 FT  
 MATERIAL: CARBON STEEL  
 SERIAL NO.:  
 IFR MAT: ALUMINUM  
 CAP: 52,527 BBLs

SERVICE: UNLEADED  
 OD: 86 FT  
 HEIGHT: 48 FT  
 MATERIAL: CARBON STEEL  
 SERIAL NO.:  
 IFR MAT: ALUMINUM  
 CAP: 46,557 BBLs

SERVICE: DIESEL  
 CAPACITY: 1200 GPM  
 DISCHARGE: 8"x6"  
 SIZE:  
 RPM: 1800 RPM

FRAME: 284T  
 RPM: 1200  
 HP: 15

NOTES:  
 1)

REFERENCE DRAWINGS:

NO.	REVISION	BY	DATE	APR
8	UPDATED PER DESIGN MODIFICATIONS, ADD TIE-INS - WC_00410	KLV	12/03/18	JV JR
7	IFR - UPDATED PER DESIGN WC_00410	KLV	10/24/18	JV JR
6	ISSUE FOR REVIEW FOR WC_00410	KLV	6/15/18	
9	UPDATE PER WC_00247	KLV	8/05/19	JV JR
9A	UPDATED FOR	JBF	2/21/19	JV JR

PROJECT LOCATION:  
 DRAWN BY: G. MCFARLAND  
 CHECKED: S. CHAPLIN  
 APPROVED: E. GANDANOZA  
 SCALE: AS SHOWN

STOCKTON TERMINAL  
 PROCESS & INSTRUMENT DIAGRAM  
 TANKS 4901 & 8801  
 ORIGINAL PROJECT NO. WC\_00247  
 DRAWING NO. STOT-12-001  
 REV. 9

**TK-30006**

SERVICE:   
 DIAMETER: 70'-0"   
 HEIGHT: 48'-0"   
 ROOF TYPE: INTERNAL FLOATING ROOF   
 MATERIAL:   
 WORKING CAPACITY:   
 SAFE FILL CAPACITY:   
 MANUFACTURER:   
 DESIGN SG: 1.0   
 MAX OP TEMP: 90°F

**P-043**

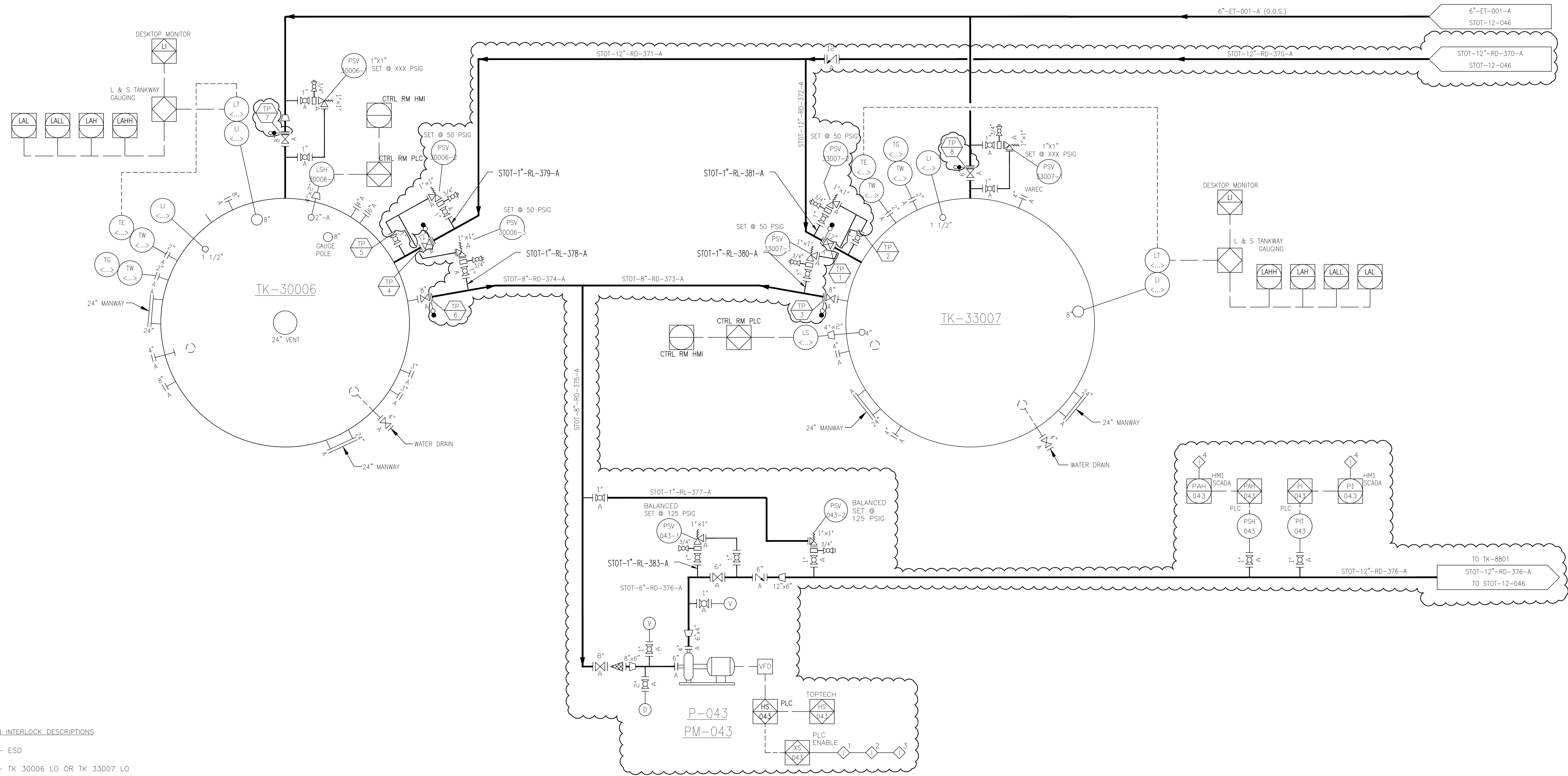
SERVICE: REN. DIESEL   
 FLOW RATE: 1400 GPM   
 SIZE: 6X4   
 DISCHARGE: 167 ft   
 MFR: GOULDS   
 MODEL: 3196 i-17

**PM-043**

TYPE:   
 HP: 75   
 RPM: 1800   
 VOLTS:   
 AMPS:   
 MFR:

**TK-33007**

SERVICE:   
 DIAMETER: 72'-0"   
 HEIGHT: 48'-0"   
 ROOF TYPE: INTERNAL FLOATING ROOF   
 MATERIAL:   
 WORKING CAPACITY:   
 SAFE FILL CAPACITY:   
 MANUFACTURER:   
 DESIGN SG:



**SHUTDOWN INTERLOCK DESCRIPTIONS**

- ◇ 1 - ESD
- ◇ 2 - TK 30006 LO OR TK 33007 LO
- ◇ 3 - FIRE DETECTED
- ◇ 4 - HIGH PRESSURE SHUTDOWN

NO.	REVISION	BY	DATE	APR
0	AS BUILT PER MARK UP	LRM	10/1/12	DJ
D	UPDATED BY NUSTAR, SHOWING EXISTING PIPE FOR DEMO	BJZ	6/05/10	RC
2	UPDATE PER WC_00247	KLJ	8/05/19	JV JR
1A	ISSUE FOR ENGINEERING REVIEW WC_00247	REH	5/6/19	KV JR
1	UPDATED PER	JBF	2/21/19	KV JR

NO.	REVISION	BY	DATE	APR
0	AS BUILT PER MARK UP	LRM	10/1/12	DJ
D	UPDATED BY NUSTAR, SHOWING EXISTING PIPE FOR DEMO	BJZ	6/05/10	RC
2	UPDATE PER WC_00247	KLJ	8/05/19	JV JR
1A	ISSUE FOR ENGINEERING REVIEW WC_00247	REH	5/6/19	KV JR
1	UPDATED PER	JBF	2/21/19	KV JR

NO.	REVISION	BY	DATE	APR
0	AS BUILT PER MARK UP	LRM	10/1/12	DJ
D	UPDATED BY NUSTAR, SHOWING EXISTING PIPE FOR DEMO	BJZ	6/05/10	RC
2	UPDATE PER WC_00247	KLJ	8/05/19	JV JR
1A	ISSUE FOR ENGINEERING REVIEW WC_00247	REH	5/6/19	KV JR
1	UPDATED PER	JBF	2/21/19	KV JR

NO.	REVISION	BY	DATE	APR
0	AS BUILT PER MARK UP	LRM	10/1/12	DJ
D	UPDATED BY NUSTAR, SHOWING EXISTING PIPE FOR DEMO	BJZ	6/05/10	RC
2	UPDATE PER WC_00247	KLJ	8/05/19	JV JR
1A	ISSUE FOR ENGINEERING REVIEW WC_00247	REH	5/6/19	KV JR
1	UPDATED PER	JBF	2/21/19	KV JR

NO.	REVISION	BY	DATE	APR
0	AS BUILT PER MARK UP	LRM	10/1/12	DJ
D	UPDATED BY NUSTAR, SHOWING EXISTING PIPE FOR DEMO	BJZ	6/05/10	RC
2	UPDATE PER WC_00247	KLJ	8/05/19	JV JR
1A	ISSUE FOR ENGINEERING REVIEW WC_00247	REH	5/6/19	KV JR
1	UPDATED PER	JBF	2/21/19	KV JR

NO.	REVISION	BY	DATE	APR
0	AS BUILT PER MARK UP	LRM	10/1/12	DJ
D	UPDATED BY NUSTAR, SHOWING EXISTING PIPE FOR DEMO	BJZ	6/05/10	RC
2	UPDATE PER WC_00247	KLJ	8/05/19	JV JR
1A	ISSUE FOR ENGINEERING REVIEW WC_00247	REH	5/6/19	KV JR
1	UPDATED PER	JBF	2/21/19	KV JR

<b>PROJECT LOCATION:</b>		STOCKTON TERMINAL #1	
<b>DRAWN BY:</b> F. FUENTES	<b>DATE:</b> 4/14/10	PIPING & INSTRUMENT DIAGRAM	
<b>CHECKED:</b> R. FIORUCCI	<b>DATE:</b> 4/14/10	TANKS TK-30006 & TK-33007	
<b>APPROVED:</b> G. TAI	<b>DATE:</b> 4/14/10	<b>ORIGINAL PROJECT NO.:</b> WC_00247	
<b>SCALE:</b> NONE		<b>DRAWING NO.:</b> STOT-12-022	<b>REV.:</b> 2



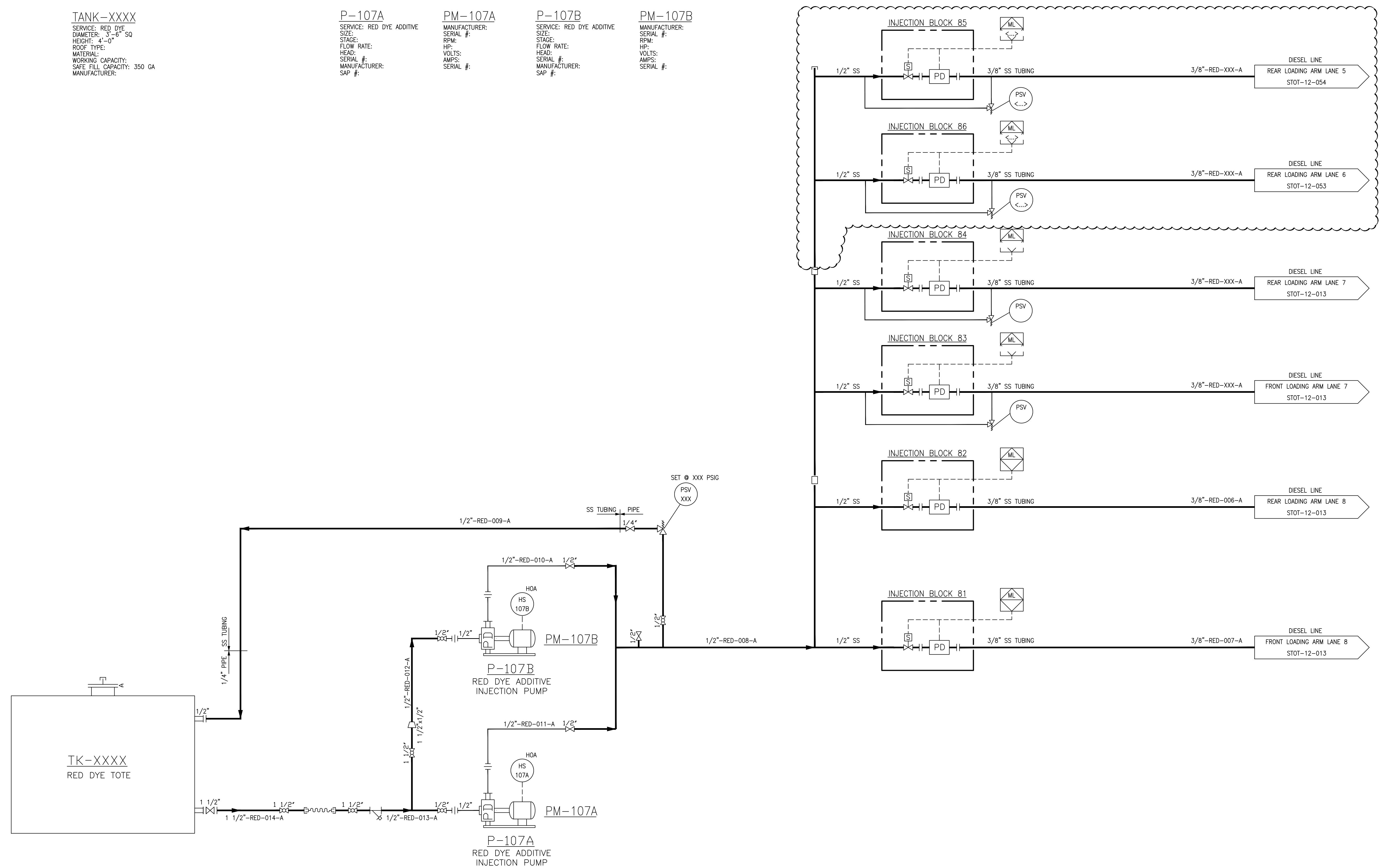
**TANK-XXXX**  
 SERVICE: RED DYE  
 DIAMETER: 3'-6" SQ  
 HEIGHT: 4'-0"  
 ROOF TYPE:  
 MATERIAL:  
 WORKING CAPACITY:  
 SAFE FILL CAPACITY: 350 GA  
 MANUFACTURER:

**P-107A**  
 SERVICE: RED DYE ADDITIVE  
 SIZE:  
 STAGE:  
 FLOW RATE:  
 HEAD:  
 SERIAL #:  
 MANUFACTURER:  
 SAP #:

**PM-107A**  
 MANUFACTURER:  
 SERIAL #:  
 RPM:  
 HP:  
 VOLTS:  
 AMPS:  
 SERIAL #:

**P-107B**  
 SERVICE: RED DYE ADDITIVE  
 SIZE:  
 STAGE:  
 FLOW RATE:  
 HEAD:  
 SERIAL #:  
 MANUFACTURER:  
 SAP #:

**PM-107B**  
 MANUFACTURER:  
 SERIAL #:  
 RPM:  
 HP:  
 VOLTS:  
 AMPS:  
 SERIAL #:



**NOTES:**

**REFERENCE DRAWINGS:**

3	APPROVED FOR CONSTRUCTION PER WC_00247	KLV	8/05/19	JV	JR
2	IFC PER WC_00317	KLV	7/05/18	NW	JR
1	ISSUE FOR FINAL REVIEW	KLV	3/28/18	JV	JR
0A	UPDATED PER P&ID REVIEW - WC_00317	KLV	2/7/17	JV	SK
0	AS BUILT PER MARK UP	LRM	10/1/12		DJ
NO.	REVISION	BY	DATE	APR	

<b>PROJECT LOCATION:</b>	
<b>DRAWN BY:</b> LR MICHAUD	<b>DATE:</b> 9/10/12
<b>CHECKED:</b>	<b>DATE:</b>
<b>APPROVED:</b> D JOHNSON	<b>DATE:</b> 9/10/12
<b>SCALE:</b> NONE	

<b>STOCKTON TERMINAL #1</b>	
<b>PIPING &amp; INSTRUMENTATION DIAGRAM</b>	
<b>RED DYE ADDITIVE</b>	
<b>ORIGINAL PROJECT NO. CW_00247</b>	
<b>DRAWING NO. STOT-12-035</b>	<b>REV. 3</b>

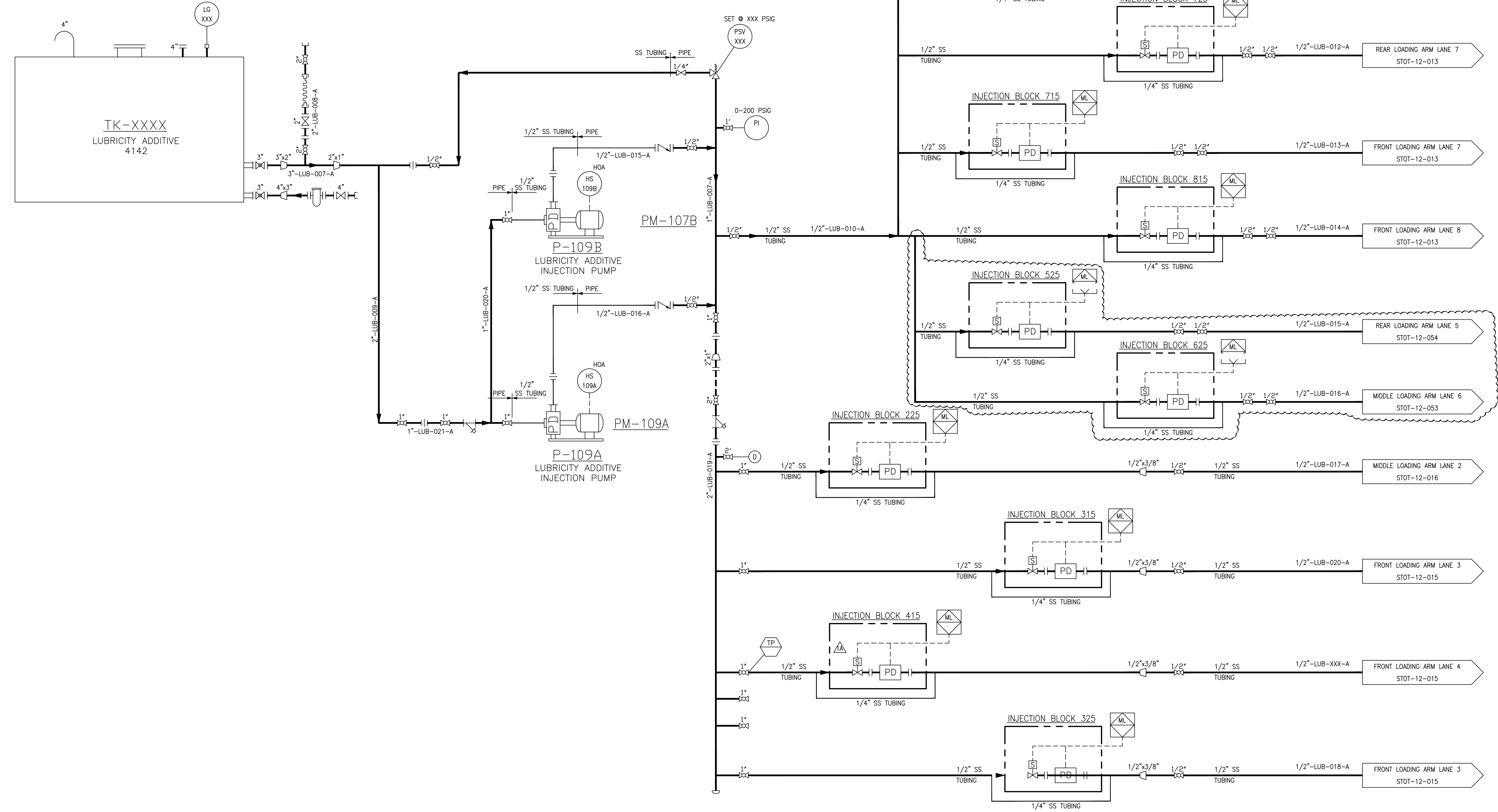
TANK-XXXX  
 SERVICE: LUBRICITY ADDITIVE  
 DIAMETER: 8'-0"  
 HEIGHT: 12'-0" LG  
 ROOF TYPE:  
 MATERIAL:  
 WORKING CAPACITY: 4000 GA  
 SAFE FILL CAPACITY:  
 MANUFACTURER:

P-109A  
 SERVICE: LUBRICITY ADDITIVE  
 SIZE:  
 STAGE:  
 FLOW RATE:  
 HEAD:  
 SERIAL #:  
 MANUFACTURER:  
 SAP #:

PM-109A  
 MANUFACTURER:  
 SERIAL #:  
 HP:  
 VOLTS:  
 AMPS:  
 SERIAL #:

P-109B  
 SERVICE: LUBRICITY ADDITIVE  
 SIZE:  
 STAGE:  
 FLOW RATE:  
 HEAD:  
 SERIAL #:  
 MANUFACTURER:  
 SAP #:

PM-109B  
 MANUFACTURER:  
 SERIAL #:  
 HP:  
 VOLTS:  
 AMPS:  
 SERIAL #:



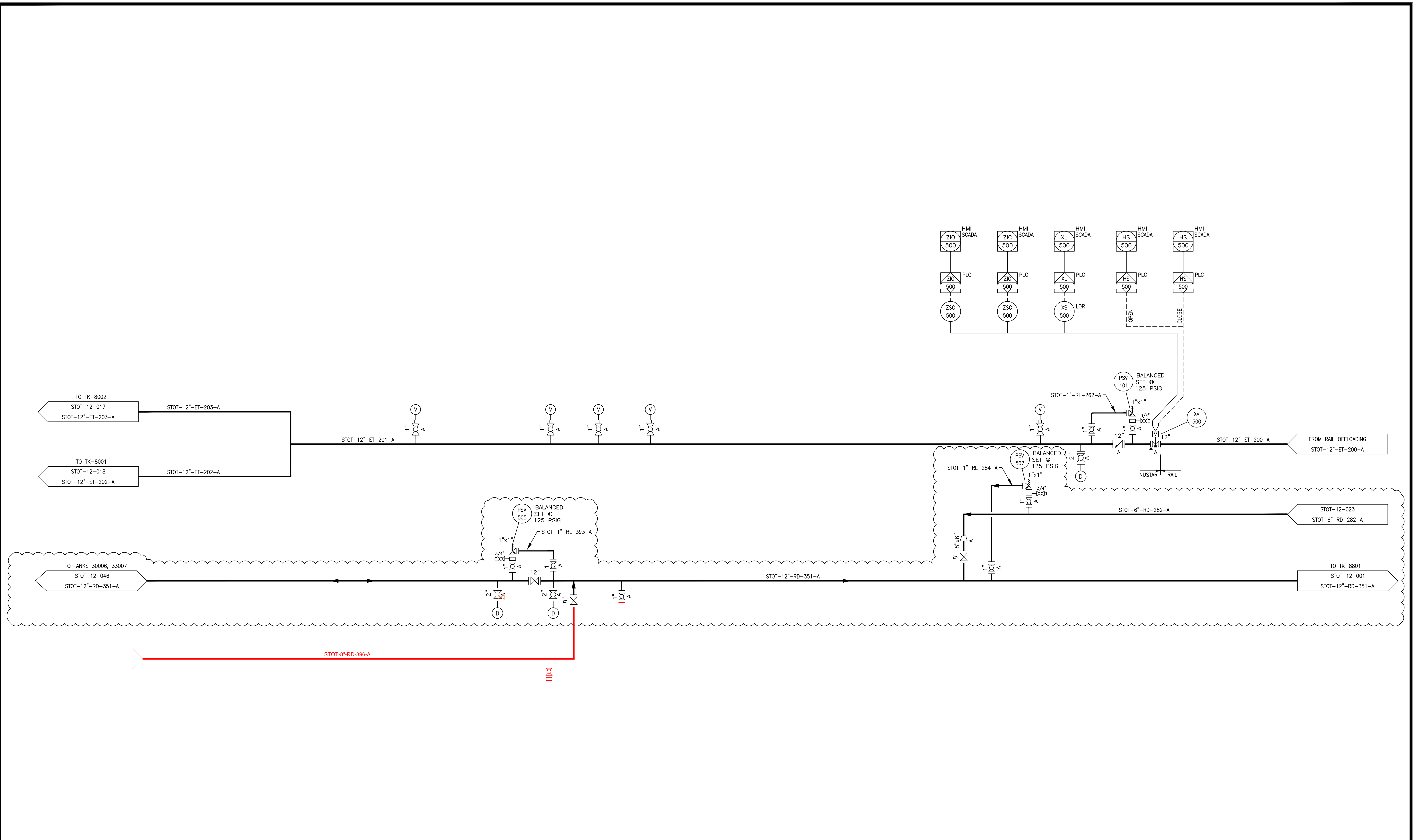
NOTES:

REFERENCE DRAWINGS:

NO.	REVISION	BY	DATE	APR
3	ADDED INJECTION BLOCKS PER WC_00247	KL	7/11/19	JV JR
2	ISSUED FOR BID - WC_000195	ESV	4-22-19	JV BR
1	RENEWABLE DIESEL PROJECT	BJZ	12/6/06	BJZ BJZ
0	AS BUILT PER MARK UP	LRM	10/1/12	DJ

PROJECT LOCATION:  
 DRAWN BY: LR MICHAUD DATE: 9/11/12  
 CHECKED: DATE:  
 APPROVED: D JOHNSON DATE: 9/11/12  
 SCALE: NONE

STOCKTON TERMINAL #1  
 PIPING & INSTRUMENTATION DIAGRAM  
 LUBRICITY ADDITIVE  
 ORIGINAL PROJECT NO. WC\_00247  
 DRAWING NO. STOT-12-037 REV. 3



**NOTES:**  
 1) CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION AND INSTALLATION.

**REFERENCE DRAWINGS:**

NO.	REVISION	BY	DATE	APR
1B	ISSUE FOR ENGINEERING REVIEW WC_00247	REH	5/6/19	KV JR
1A	UPDATED FOR	JBF	2/21/19	JV JR
C	UPDATED PER DESIGN MODIFICATIONS, ADD TIE-INS - WC_00410	KLV	12/03/18	JV JR
1	UPDATE PER WC_00247	KLV	8/05/19	JV JR
1C	UPDATED PER DESIGN WC_00247	KLV	6/11/19	JV JR

**PROJECT LOCATION:**

**DRAWN BY:** KLV **DATE:** 6/27/18

**CHECKED:** JV **DATE:**

**APPROVED:** NSD **DATE:**

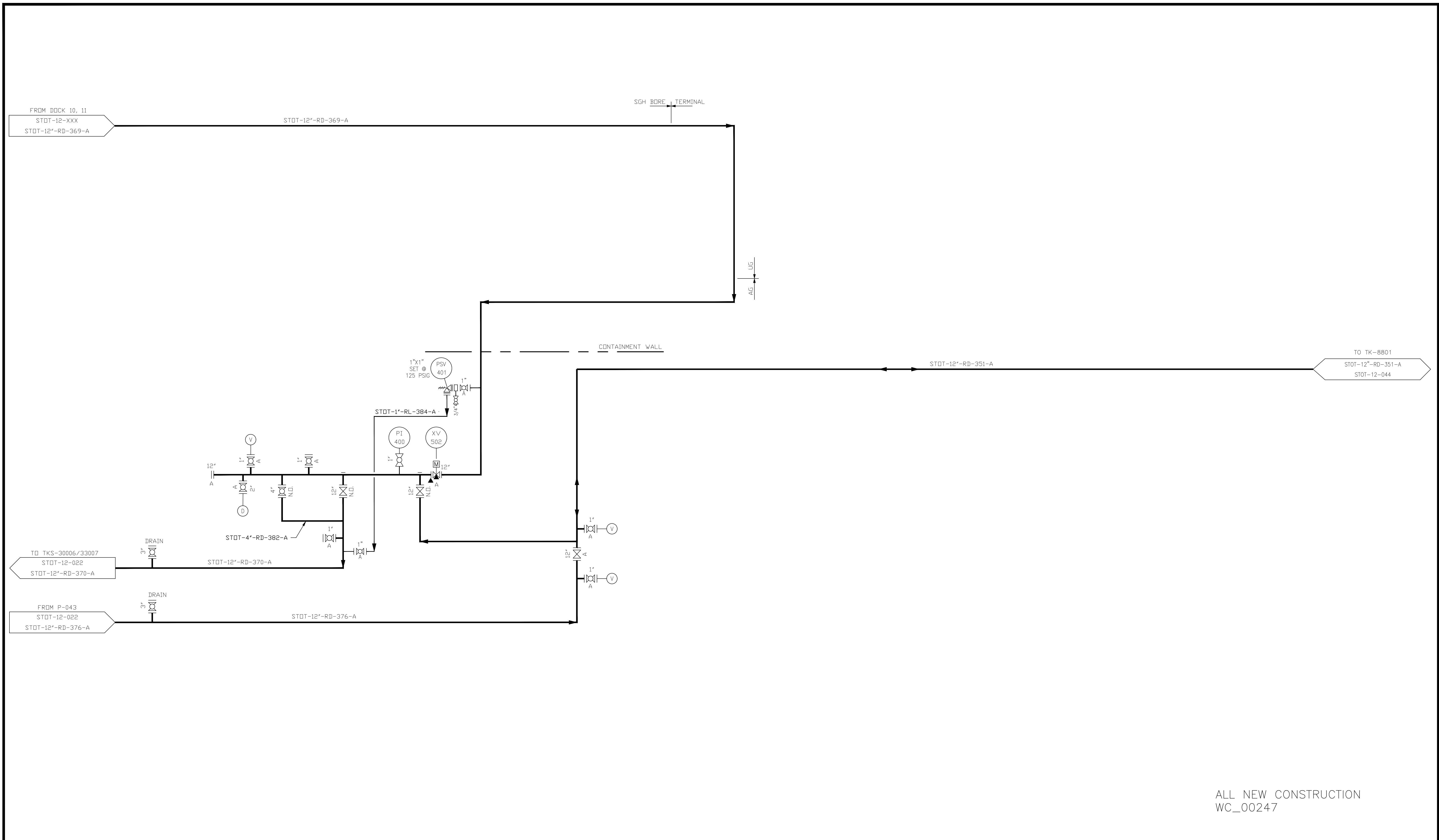
**SCALE:** NONE

**STOCKTON TERMINAL  
 PROCESS & INSTRUMENT DIAGRAM  
 ETHANOL RAIL OFFLOADING**

**ORIGINAL PROJECT NO:** WC\_00247

**DRAWING NO. STOT-12-044**

<b>REV. 1</b>
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ALL NEW CONSTRUCTION  
WC\_00247

NOTES:

REFERENCE DRAWINGS:

NO.	REVISION	BY	DATE	APR
1	UPDATE PER WC_00247	KLV	8/05/19	JV JR
1A	ISSUE FOR ENGINEERING REVIEW WC_00247	REH	5/6/19	KV JR
A	ISSUED FOR REVIEW	KV	2/22	

PROJECT LOCATION:  
DRAWN BY: REH  
CHECKED: JV  
APPROVED: NSD  
SCALE: NONE

STOCKTON TERMINAL #3  
PROCESS & INSTRUMENTATION DIAGRAM  
R.D. INCOMING MANIFOLD  
ORIGINAL PROJECT NO. WC\_00247  
DRAWING NO. STOT-12-046  
REV. 1

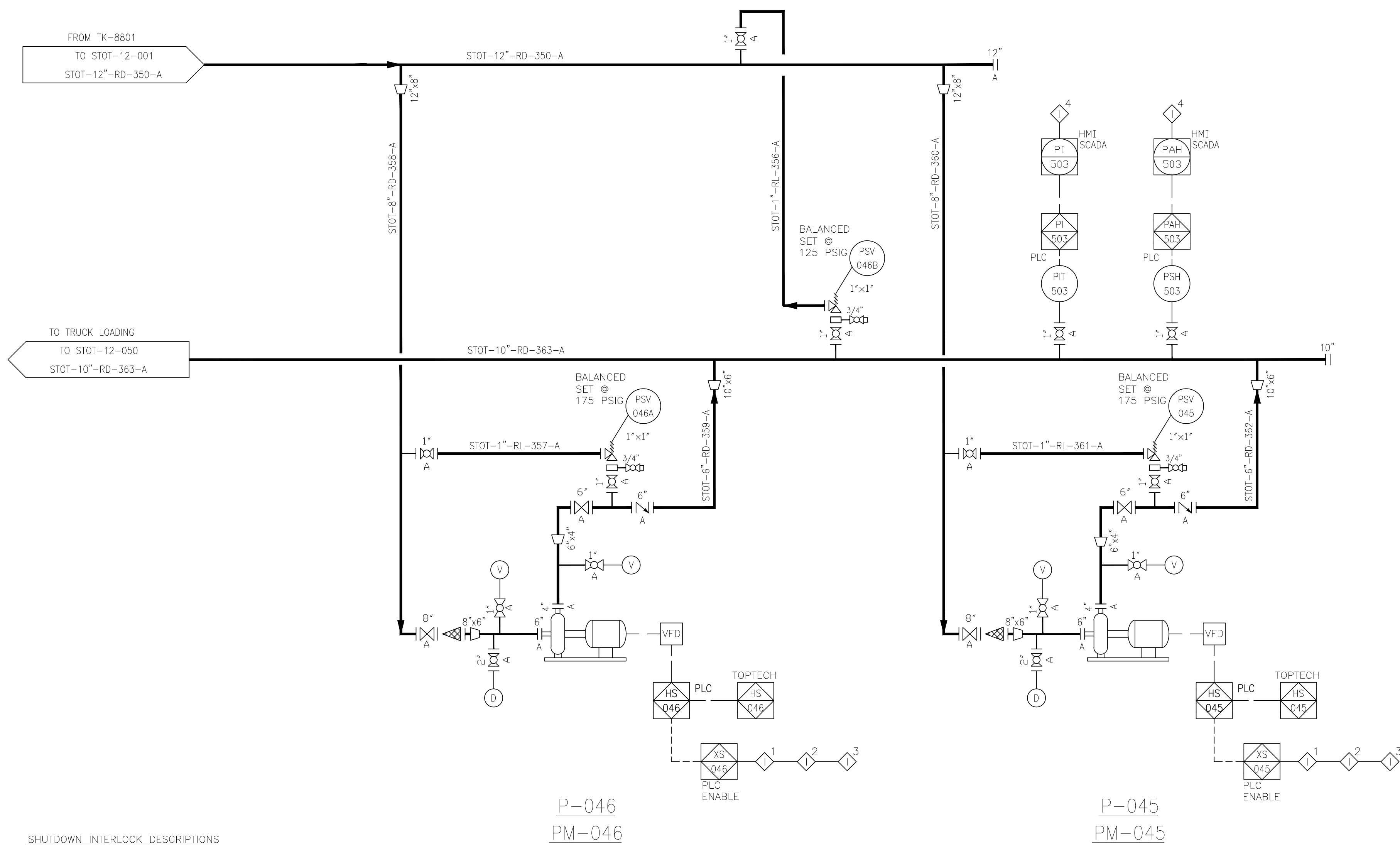


**P-046**  
 SERVICE: REN. DIESEL  
 FLOW RATE: 1400 GPM  
 SIZE: 6X4  
 DISCHARGE: 167 ft  
 MFR: GOULDS  
 MODEL: 3196 i-17

**PM-046**  
 TYPE:  
 HP: 75  
 RPM: 1800  
 VOLTS:  
 AMPS:  
 MFR:

**P-045**  
 SERVICE: REN. DIESEL  
 FLOW RATE: 1400 GPM  
 SIZE: 6X4  
 DISCHARGE: 167 ft  
 MFR: GOULDS  
 MODEL: 3196 i-17

**PM-045**  
 TYPE:  
 HP: 75  
 RPM: 1800  
 VOLTS:  
 AMPS:  
 MFR:



- SHUTDOWN INTERLOCK DESCRIPTIONS
- ◇ 1 - ESD
  - ◇ 2 - TK 8801 LO
  - ◇ 3 - FIRE DETECTED
  - ◇ 4 - HIGH PRESSURE SHUTDOWN

ALL NEW CONSTRUCTION  
 WC\_00247

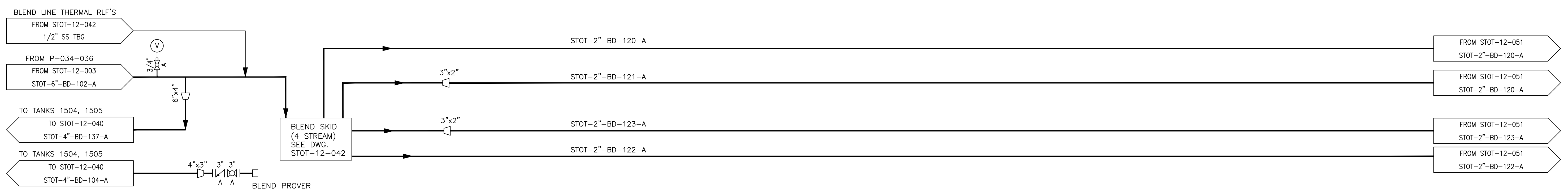
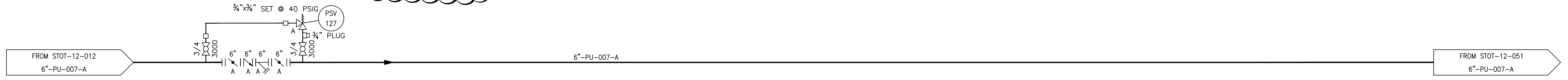
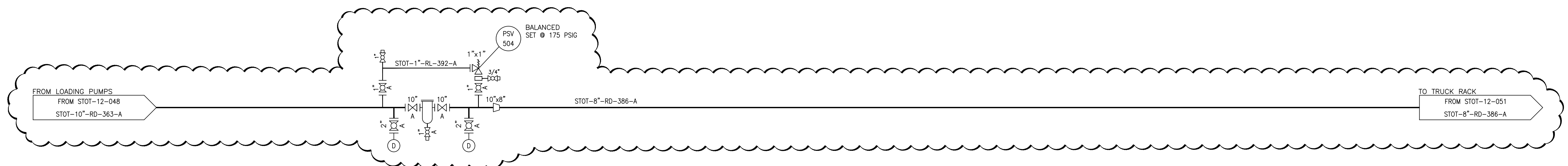
NOTES:

REFERENCE DRAWINGS:

NO.	REVISION	BY	DATE	APR
0	UPDATE PER WC_00247	KLV	8/05/19	JV JR
C	ISSUE FOR ENGINEERING REVIEW - WC_00247	JBF	5/6/19	KLV JR
B	ISSUED FOR BID	KLV	3/22/19	KLV JR
A	ISSUED FOR REVIEW	KLV	2/21/19	

PROJECT LOCATION:  
 DRAWN BY: KLV DATE: 2/21/19  
 CHECKED: JV DATE:  
 APPROVED: NSD DATE:  
 SCALE: NONE

STOCKTON TERMINAL #1  
 PROCESS FLOW DIAGRAM  
 RD TRUCK LOADING PUMPS  
 ORIGINAL PROJECT NO. WC\_00247  
 DRAWING NO. STOT-12-048 REV. 0



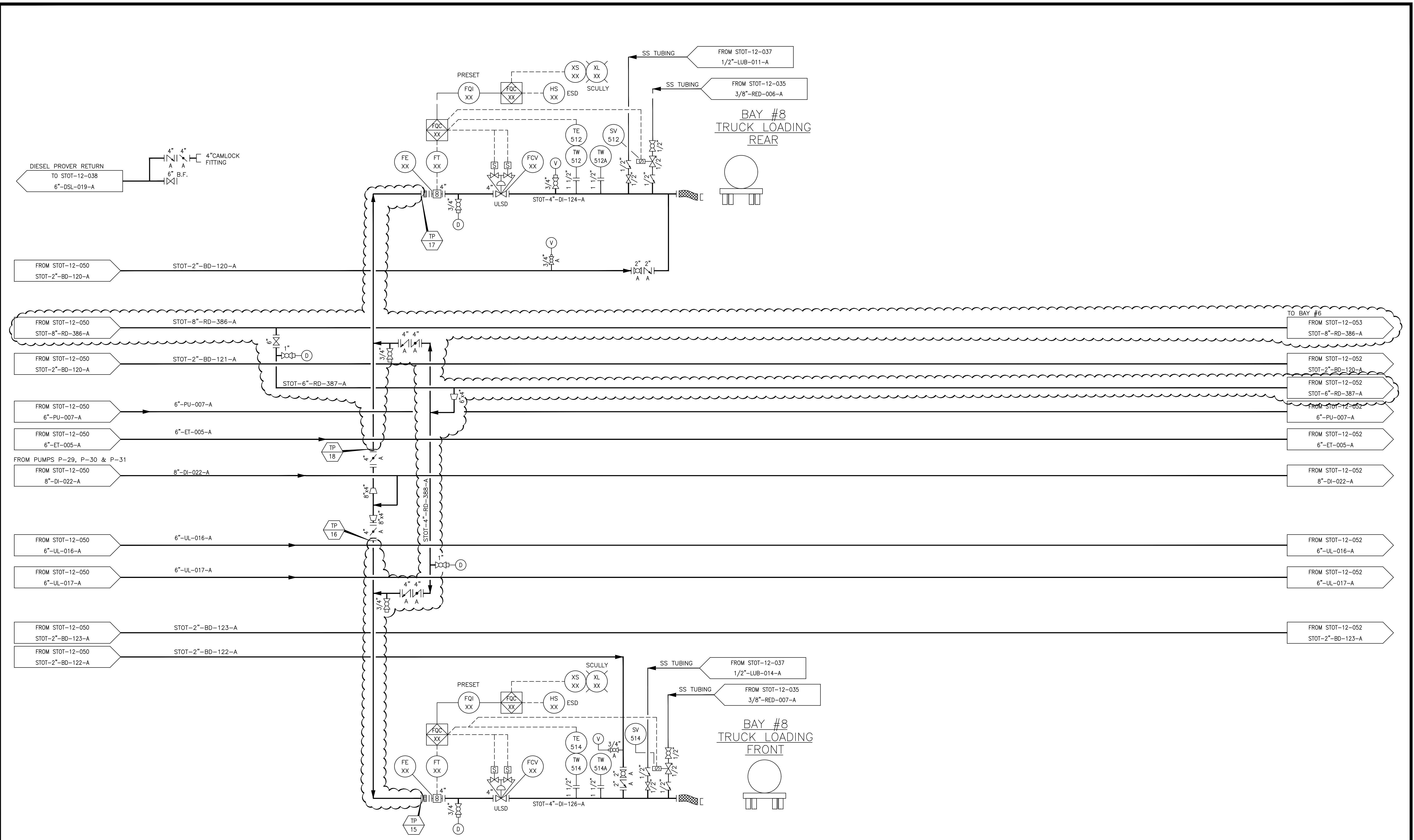
**NOTES:**  
 1) CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION AND INSTALLATION.

**REFERENCE DRAWINGS:**

NO.	REVISION	BY	DATE	APR
1	UPDATE PER WC_00247	KLV	8/05/19	JV JR
1A	ISSUE FOR ENGINEERING REVIEW WC_00247	KLV	5/06/19	JV JR
A	REDRAWN FOR CLARITY, IFR PER	KLV	2/21/19	JV JR

PROJECT LOCATION:	STOCKTON TERMINAL #1			
DRAWN BY:	KLV	DATE:	2/28/19	
CHECKED:	JV	DATE:		
APPROVED:	NSD	DATE:		
SCALE:	NONE			

STOCKTON TERMINAL #1	
PIPING & INSTRUMENTATION DIAGRAM	
SOUTH TRUCK LOADING INCOMING	
ORIGINAL PROJECT NO:	WC_00247
DRAWING NO.:	STOT-12-050
REV.	1



**NOTES:**  
 1) CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION AND INSTALLATION.

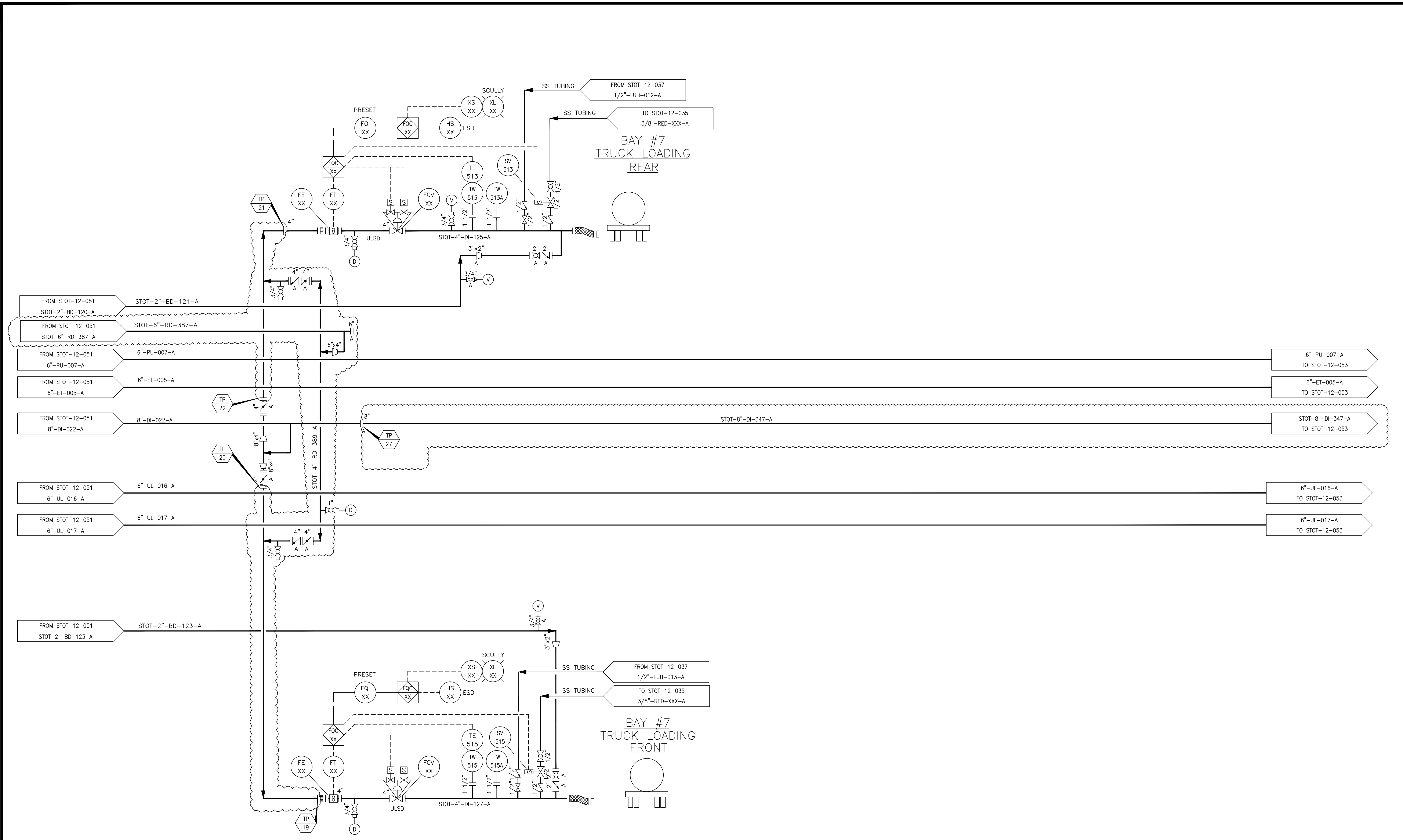
**REFERENCE DRAWINGS:**

NO.	REVISION	BY	DATE	APR
1	UPDATE PER WC_00247	KLV	8/05/19	JV JR
1A	ISSUE FOR ENGINEERING REVIEW WC_00247	KLV	5/06/19	JV JR
A	REDRAWN FOR CLARITY.	KLV	2/21/19	JV JR

PROJECT LOCATION:	STOCKTON TERMINAL #1			
DRAWN BY:	KLV	DATE:	2/28/19	
CHECKED:	JV	DATE:		
APPROVED:	JR	DATE:		
SCALE:	NONE			

ORIGINAL PROJECT NO. WC_00247	
DRAWING NO. STOT-12-051	REV. 1

L:\Projects\2019\DD-1907 - Stockton Terminal - NESTEA\03\_Process\12 - Piping & Instrument Diagram\ STOT-12-051.dwg May 13, 2020 - 1:56pm



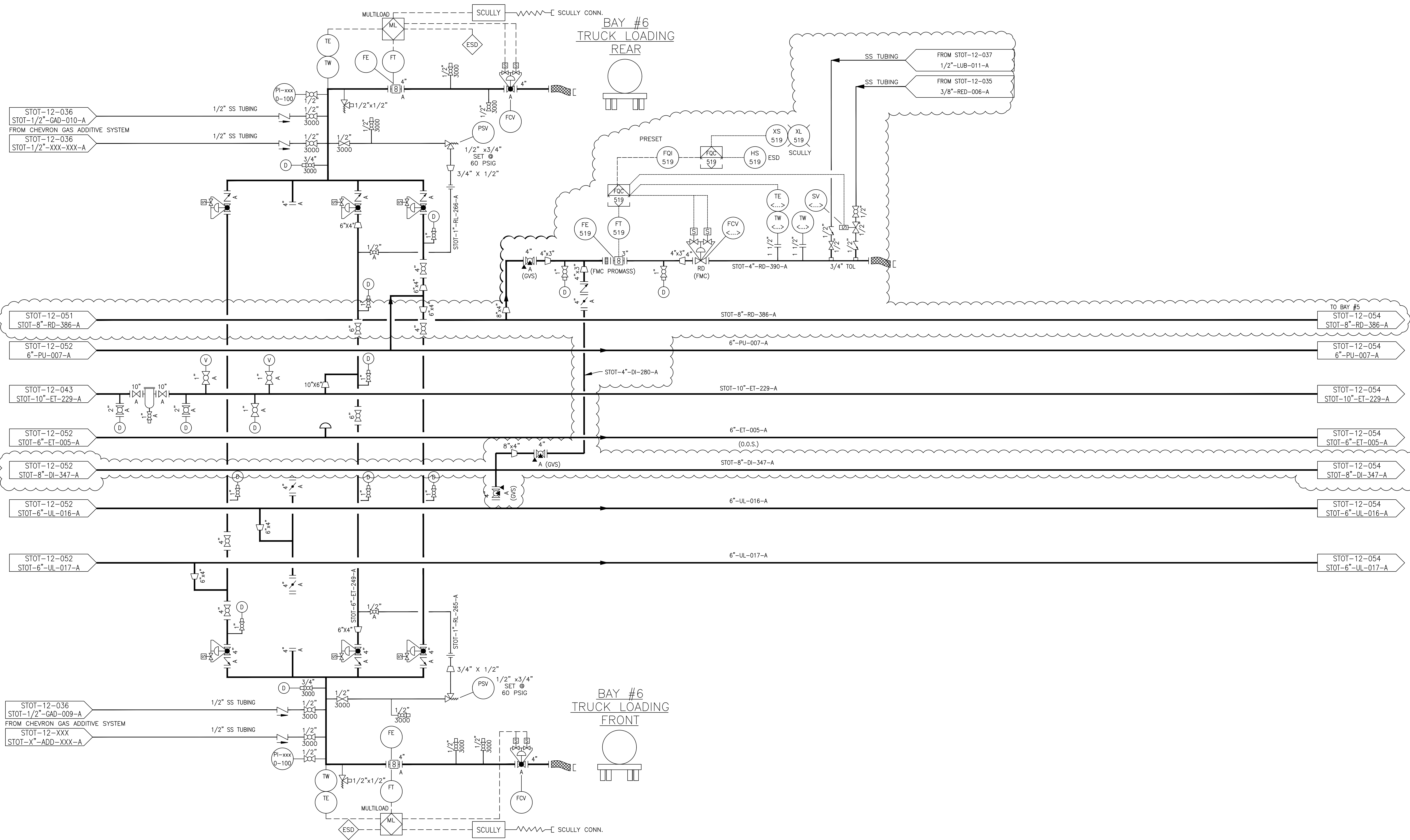
**NOTES:**  
 1) CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION AND INSTALLATION.

**REFERENCE DRAWINGS:**

NO.	REVISION	BY	DATE	APR
1	UPDATE PER WC_00247	KLV	8/05/19	JV JR
1A	ISSUE FOR ENGINEERING REVIEW WC_00247	KLV	5/06/19	JV JR
A	REDRAWN FOR CLARITY,	KLV	2/21/19	JV JR

PROJECT LOCATION:	STOCKTON TERMINAL #1			
DRAWN BY: KLV	DATE: 2/28/19	PIPING & INSTRUMENTATION DIAGRAM		
CHECKED: JV	DATE:	TRUCK LOADING BAY #7		
APPROVED: NSD	DATE:	ORIGINAL PROJECT NO. WC_00247		
SCALE: NONE		DRAWING NO. STOT-12-052		REV. 1





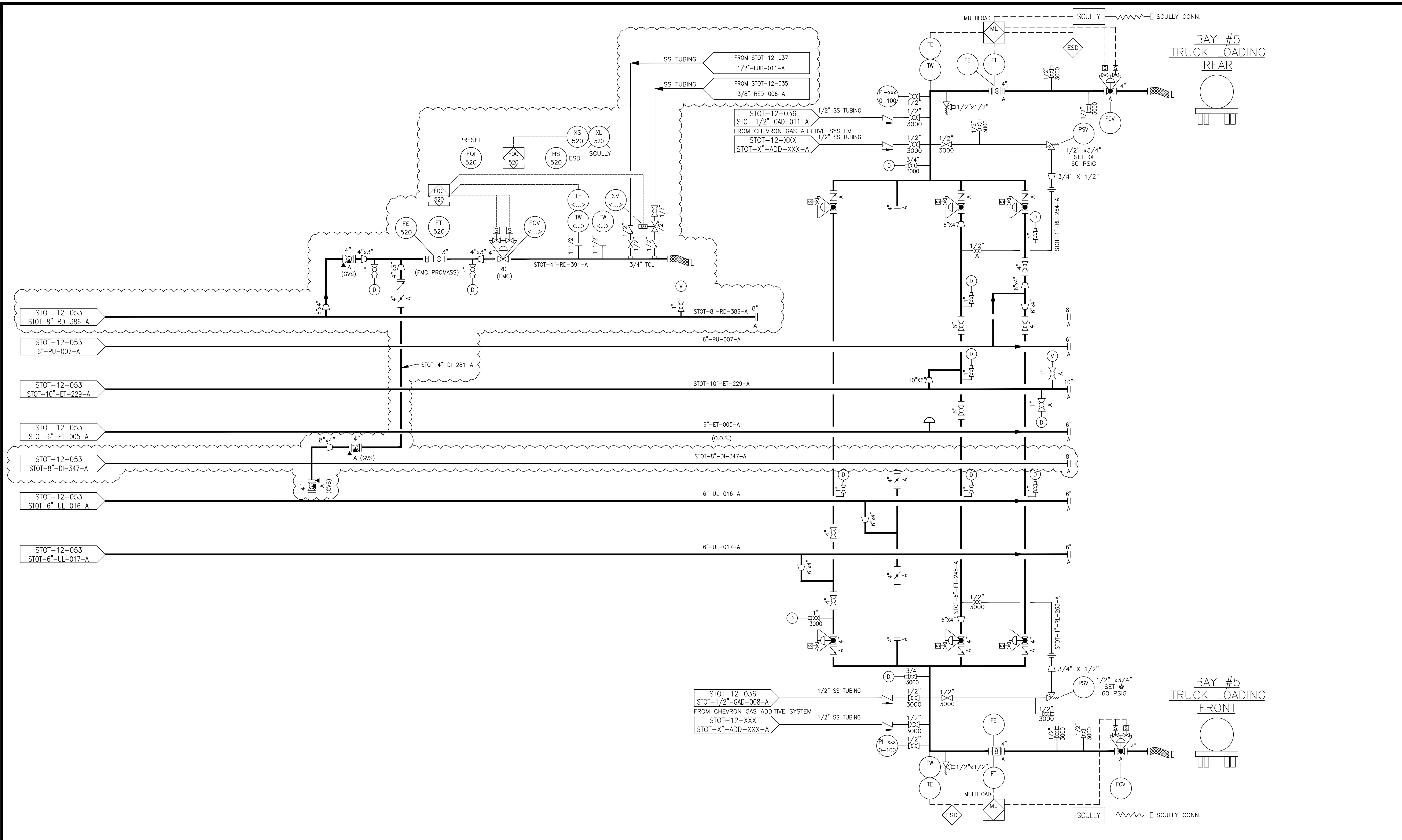
**NOTES:**  
 1) CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION AND INSTALLATION.

**REFERENCE DRAWINGS:**

NO.	REVISION	BY	DATE	APR
1	UPDATE PER WC_00247	KLV	8/05/19	JV JR
1A	ISSUE FOR ENGINEERING REVIEW WC_00247	KLV	5/06/19	JV JR
A	REDRAWN FOR CLARITY	KLV	6/15/18	JV JR

**PROJECT LOCATION:**  
**DRAWN BY:** KLV **DATE:** 2/28/19  
**CHECKED:** JV **DATE:**  
**APPROVED:** NSD **DATE:**  
**SCALE:** NONE

**STOCKTON TERMINAL #1**  
**PIPING & INSTRUMENTATION DIAGRAM**  
**TRUCK LOADING BAY #6**  
**ORIGINAL PROJECT NO. WC\_00247**  
**DRAWING NO. STOT-12-053** **REV. 1**



**NOTES:**  
 1) CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION AND INSTALLATION.

**REFERENCE DRAWINGS:**

NO.	REVISION	BY	DATE	APR
1	UPDATE PER WC_00247	KLV	8/05/19	JV JR
1A	ISSUED FOR ENGINEERING REVIEW WC_00247	KLV	5/06/19	JV JR
A	REDRAWN FOR CLARITY,	KLV	2/21/19	JV JR

1	UPDATE PER WC_00247	KLV	8/05/19	JV JR
1A	ISSUED FOR ENGINEERING REVIEW WC_00247	KLV	5/06/19	JV JR
A	REDRAWN FOR CLARITY,	KLV	2/21/19	JV JR

**PROJECT LOCATION:**  
**DRAWN BY:** KLV **DATE:** 2/28/19  
**CHECKED:** JV **DATE:**  
**APPROVED:** NSD **DATE:**  
**SCALE:** NONE

**STOCKTON TERMINAL #1**  
**PIPING & INSTRUMENTATION DIAGRAM**  
**TRUCK LOADING BAY #5**  
**ORIGINAL PROJECT NO. WC\_00247**  
**DRAWING NO. STOT-12-054** **REV. 1**