

Crescent Point

ENERGY CORP

MANSON BATTERY

LSD 16-04-13-28 W1M

TRUCK STATION METER BUILDING

MECHANICAL DRAWING PACKAGE

ISSUED FOR CONSTRUCTION

2013.10.23

ISSUED FOR
CONSTRUCTION

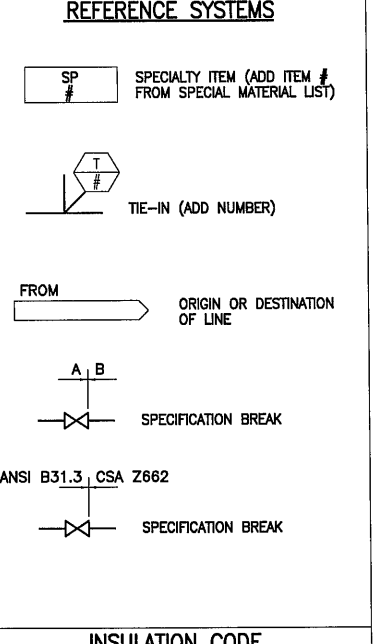
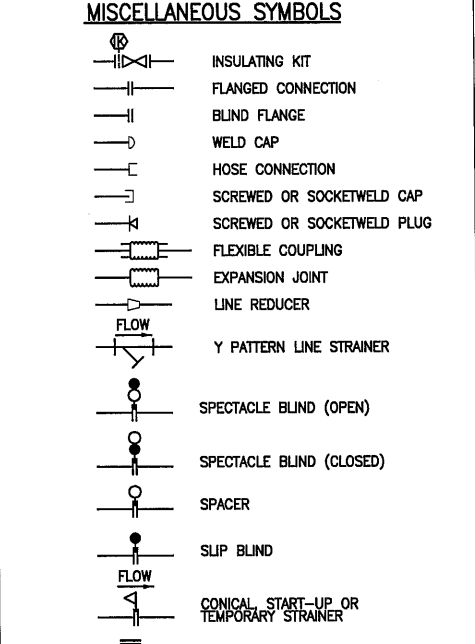
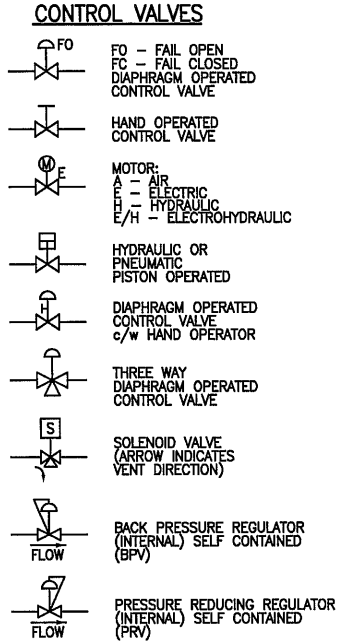
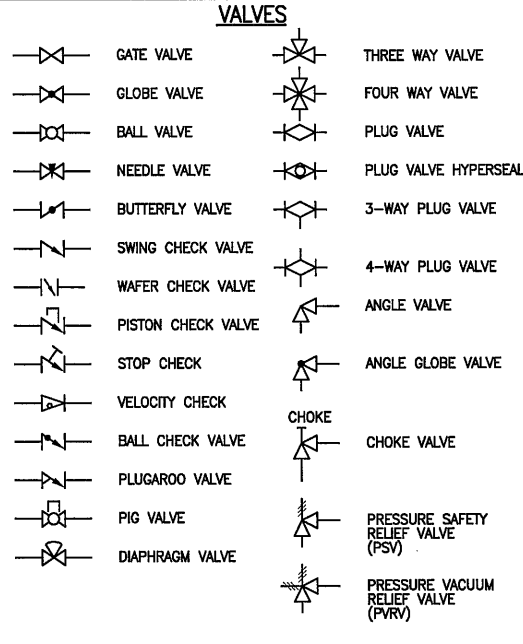
OCT 23 2013

PREPARED BY

TRIDYNE PROJECTS
CORPORATION

TRIDYNE PROJECT #: 2012126

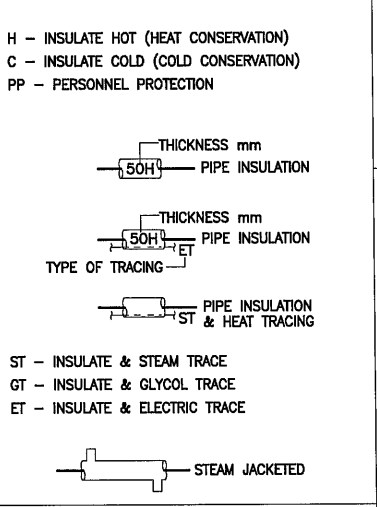
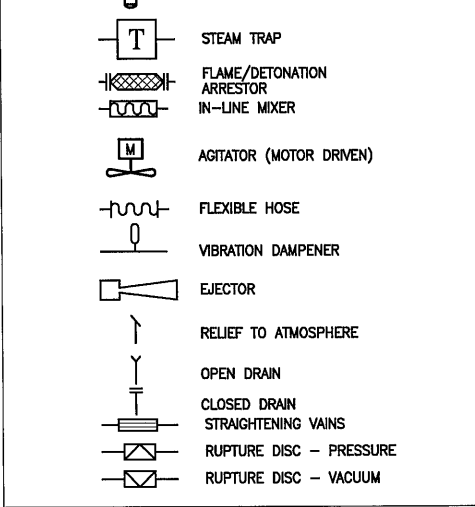
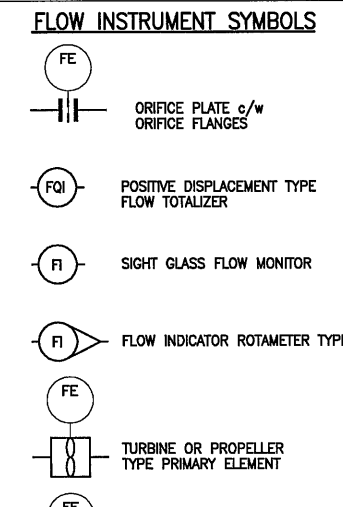
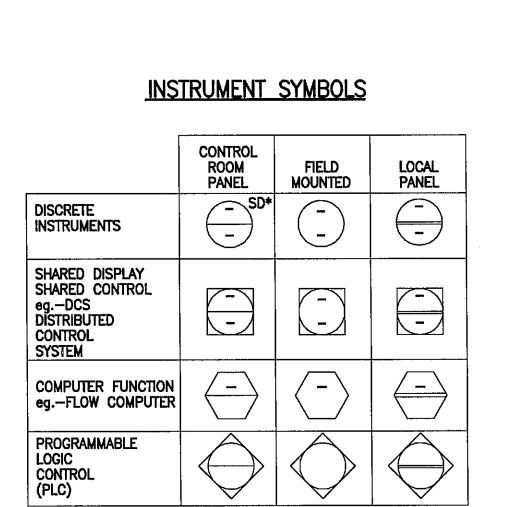
Plot Date: Wednesday, 23 October 2013 3:44:24 PM File Name: X:\CRESCENT POINT\CRESCENT POINT_LEAD SHEET.DWG By: RC



INSTRUMENT IDENTIFICATION

| VARIABLE | PRIMARY ELEMENT | INDICATOR | RECORDER | CONTROLLER | | | ALARM - SHUTDOWN | | CONTROL VALVE OR REGULATOR | SELF ACTIVATED VALVE | RELAY OR CONVERTER |
|--------------------------|-----------------|-----------|----------|------------|------------|-----------|------------------|--------|----------------------------|----------------------|--------------------|
| | | | | BLIND | INDICATING | RECORDING | SWITCH | ALARM | AV | AV | AY |
| ANALYSIS | AE | AI | AR | AC | AIC | ARC | AT | AS() | AA() | | |
| BURNER FLAME | BE | BI | BR | BC | | | BT | BS() | BA() | BV | BY |
| CONDUCTIVITY | CE | CI | CR | CC | CIC | CRC | CT | CS() | CA() | CV | CY |
| DENSITY | DE | DI | DR | DC | DIC | DRC | DT | DS() | DA() | DV | DY |
| VOLTAGE (EMF) | EE | EI | ER | EC | EIC | ERC | ET | ES() | EA() | EV | EY |
| FLOW | FE | FI | FR | FC | FIC | FRC | FT | FS() | FA() | FV | FY |
| FLOW RATIO | | FFI | FFR | FFC | FFIC | FFRC | | FFS() | FFA() | FFV | |
| GAGING (DIMENSIONAL) | GE | GI | GR | GC | GIC | GRC | GT | GS() | GA() | GV | |
| HAND | | | | HC | HIC | | | HS() | | HV | HCV |
| CURRENT | IE | II | IR | IC | IIC | IRC | IT | IS() | IA() | | IY |
| POWER | JE | JI | JR | JC | JIC | JRC | JT | JS() | JA() | | JY |
| TIME | | KI | KR | KC | KIC | KRC | KT | KS() | KA() | | KY |
| LEVEL | LE | LI | LR | LC | LIC | LRC | LT | LS() | LA() | LV | LY |
| MOISTURE | ME | MI | MR | MC | MIC | MRC | MT | MS() | MA() | MV | MY |
| USER'S CHOICE | NE | | | | | | | | | | |
| TORQUE | OE | OI | OR | OC | OIC | ORC | OT | OS() | OA() | OV | OY |
| PRESSURE | PE | PI | PR | PC | PIC | PRC | PT | PS() | PA() | PV | PY |
| PRESSURE DIFFERENTIAL | PDE | PDI | PDR | PDC | PDIC | PDRC | PDT | PDS() | PDA() | PDV | PDCV |
| QUANTITY OR EVENT | | QI | QR | QC | QIC | QRC | QT | QS() | QA() | QV | QY |
| RADIATION | RE | RI | RR | RC | RIC | RRC | RT | RS() | RA() | | RY |
| SPEED OR FREQUENCY | | SI | SR | SC | SIC | SRC | ST | SS() | SA() | | SY |
| TEMPERATURE | TE | TI | TR | TC | TIC | TRC | TT | TS() | TA() | TV | TY |
| TEMPERATURE DIFFERENTIAL | | TDI | TDR | TDC | TDIC | TDRC | TDT | TDS() | TDA() | TDV | TDCV |
| MULTIVARIABLE | | UI | UR | UC | UIC | URC | | | | UV | UY |
| VISCOSITY OR VIBRATION | VE | VI | VR | VC | VIC | VRC | VT | VS() | VA() | VV | VY |
| WEIGHT | WE | WI | WR | WC | WIC | WRC | WT | WS() | WA() | WV | WY |
| UNCLASSIFIED | XE | XI | XR | XC | XIC | XRC | XT | XS() | XA() | XV | XY |
| USER'S CHOICE | | | | | | | | | | | YY |
| POSITION | ZE | ZI | ZR | ZC | ZIC | ZRC | ZT | ZS() | ZA() | | ZY |

H - HIGH, HH - EXTRA HIGH, L - LOW, LL - EXTRA LOW, HL - HIGH & LOW, C - CLOSED, O - OPEN



LINE COMMODITY CODES

| AIR | FUEL |
|-----------------------|---------------------|
| CA --- COMBUSTION AIR | FG --- FUEL GAS |
| IA --- INSTRUMENT AIR | FO --- FUEL OIL |
| UA --- UTILITY AIR | PG --- PURGE GAS |
| SA --- START AIR | SU --- STARTING GAS |

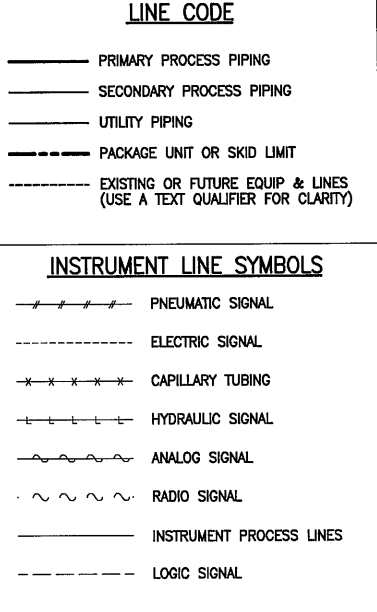
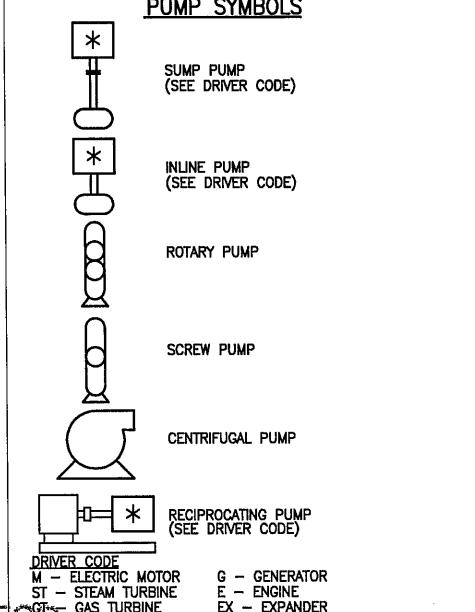
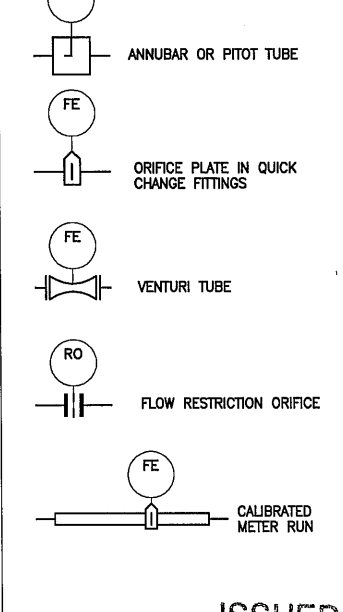
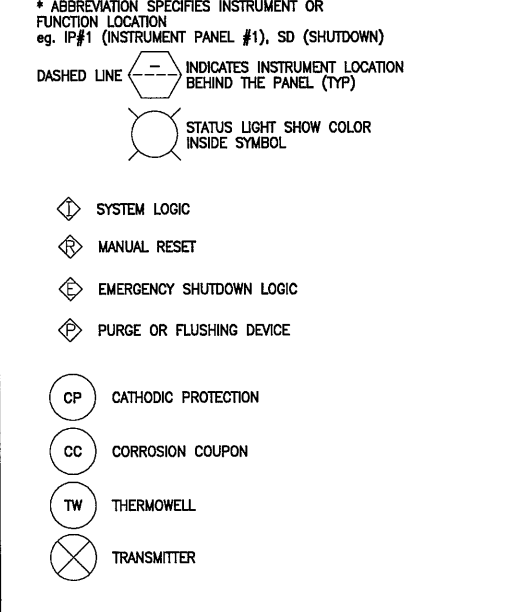
| WATER | STEAM |
|--------------------------------------|------------------------------|
| BFW --- BOILER FEED WATER | LS --- LOW PRESSURE STEAM |
| CW --- COOLING WATER | MS --- MEDIUM PRESSURE STEAM |
| DW --- DRINKING WATER | HS --- HIGH PRESSURE STEAM |
| FW --- FIRE WATER | |
| JW --- JACKET WATER | |
| RW --- RAW WATER (WELL/RIVER WATER) | |
| TW --- TREATED WATER (DEMINERALIZED) | |

| PROCESS | DRAINS |
|--|-----------------------------|
| (*)A --- ACID [(*) MODIFIER FOR ACID TYPE] | DR --- DRAIN |
| AL --- AMINE LEAN | HDR --- HIGH PRESSURE DRAIN |
| AR --- AMINE RICH | LDR --- LOW PRESSURE DRAIN |
| GL --- GLYCOL LEAN | |
| GR --- GLYCOL RICH | |
| LPG --- LIQUID PETROLEUM GAS | |
| P --- INCOMING STREAM (GAS, EMULSION, OIL) | |
| PG --- PROCESS HYDROCARBON GAS | |
| PO --- PROCESS HYDROCARBON OIL | |
| PW --- PROCESS WATER | |
| R --- REFRIGERANT (PROPANE ETC.) | |
| SU --- SULPHUR | |

| MISCELLANEOUS |
|----------------------------|
| BG --- BLANKET GAS |
| EG --- EXHAUST GAS |
| H --- HYDROGEN |
| HMS --- HEAT MEDIUM SUPPLY |
| HMR --- HEAT MEDIUM RETURN |
| LO --- LUBE OIL |
| N --- NITROGEN |
| Y --- USER CHOICE |

ABBREVIATIONS

| |
|--|
| AC --- AIR CLOSE |
| AO --- AIR OPEN |
| AS --- AIR SUPPLY |
| BD --- BLOWDOWN |
| CC --- CORROSION COUPON |
| CP --- CATHODIC PROTECTION |
| CSC --- CAR SEAL CLOSED |
| CSO --- CAR SEAL OPEN |
| CHO --- CHAIN OPERATED |
| CO --- CLEANOUT |
| DC --- DRAIN CONNECTION |
| ESD --- EMERGENCY SHUTDOWN |
| ESDV --- EMERGENCY SHUTDOWN VALVE |
| FA --- FLAME ARRESTOR |
| FC --- FAIL CLOSED |
| FO --- FAIL OPEN |
| FP --- FULL PORT |
| GO --- GEAR OPERATED |
| IA --- INSTRUMENT AIR |
| IG --- INSTRUMENT GAS |
| LEL --- LOWER EXPLOSIVE LIMIT |
| NC --- NORMALLY CLOSED |
| NO --- NORMALLY OPEN |
| PC --- PURGE CONNECTION |
| PO --- PUMP OUT |
| PSIG --- POUNDS PER SQUARE INCH GAUGE |
| SC --- SAMPLE CONNECTION |
| S/D --- SHUTDOWN (INDIVIDUAL EQUIPMENT) |
| SP --- SET POINT |
| S/S --- SEAM TO SEAM |
| TL --- TANGENT LINE |
| TP --- TRANSITION PIECE |
| T/T --- TANGENT TO TANGENT |
| FOT --- FLAT ON TOP |
| FOB --- FLAT ON BOTTOM |
| OSB --- OUTSIDE BUILDING |
| S --- STRAIGHT THROUGH (DIAPHRAGM VALVE) |
| W --- WEIR (DIAPHRAGM VALVE) |



| REFERENCE DRAWING | DESCRIPTION | STAMPS & PERMITS |
|-------------------|-------------|------------------|
| | | |

| PROJ. No. | REV. | REVISION DESCRIPTION | DATE | BY | CHK'D | APP'D |
|-----------|------|----------------------------|------------|----|-------|-------|
| N/A | 0 | ISSUED FOR STANDARDIZATION | 2013.10.09 | RC | | |

TRIDYNE PROJ. No.:
DATE:
DRAWN BY:
CHECKED:
APPROVED:

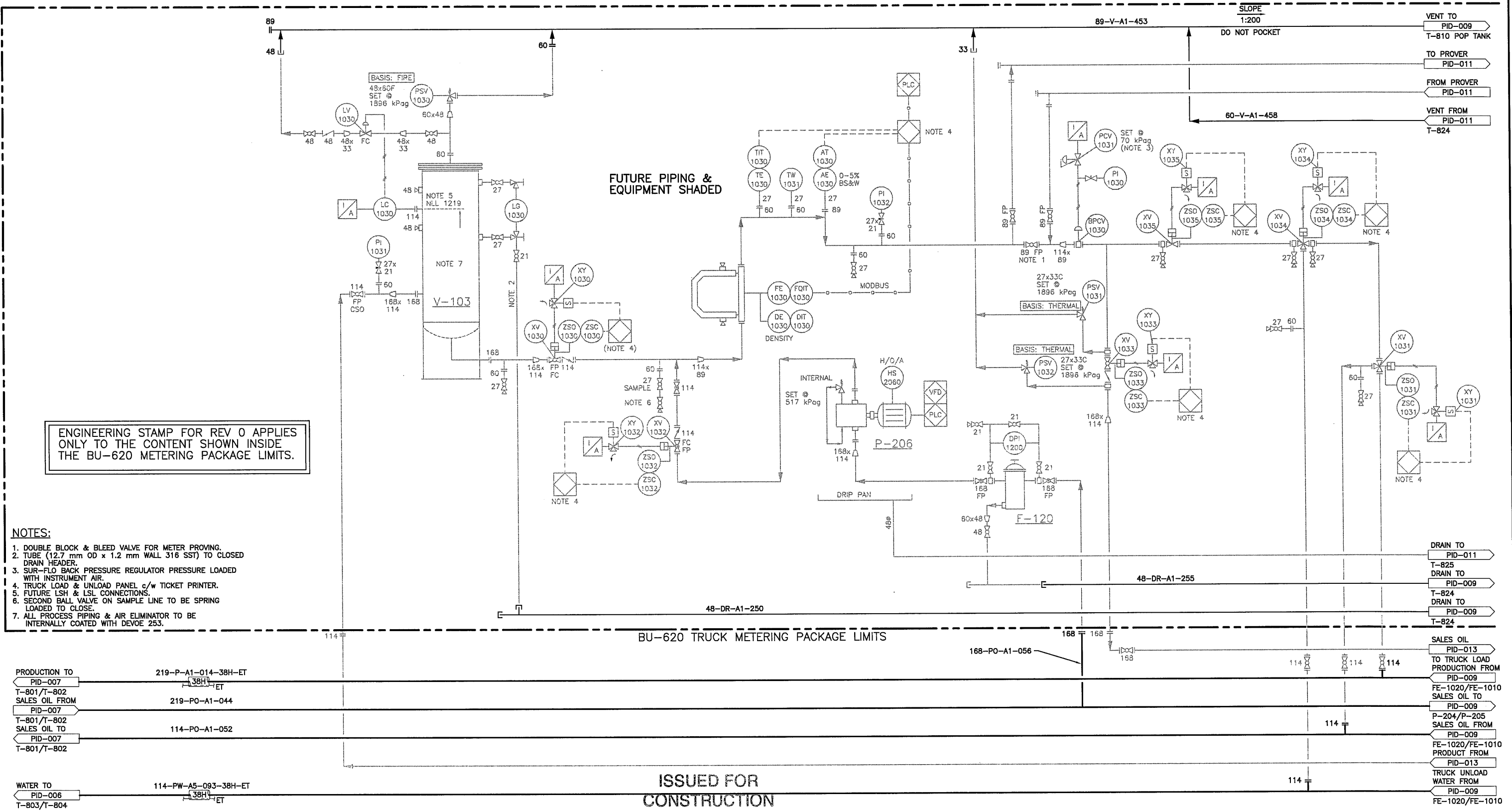
TRIDYNE PROJECTS
CORPORATION

| TYPICAL | SCALE: | DWG No.: | REV.: |
|--------------------------------------|--------|----------|-------|
| LSD: CRESCENT POINT LEAD SHEET | NONE | | 0 |

V-103
AIR ELIMINATOR
D.P.: 1965 kPag @ 38°C
SIZE: 508 mm OD x 1524 mm S/S
C.A.: 3.0 mm

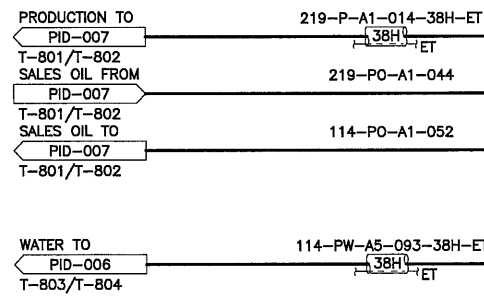
P-206
TRUCK LOADING PUMP
RATED FLOW: 77.5 m³/h @ 345 kPa dP
MOTOR: 30 HP/22.4 kW
POWER: 575 VAC, 3 PHASE, 60 Hz

F-120
SUCTION STRAINER
4" BF 150 OR
STAINLESS STEEL BASKET c/w 3.2mm PREF.
MAWP: 1965 kPag @ 38°C



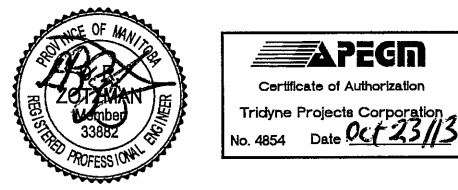
ENGINEERING STAMP FOR REV 0 APPLIES ONLY TO THE CONTENT SHOWN INSIDE THE BU-620 METERING PACKAGE LIMITS.

- NOTES:**
- DOUBLE BLOCK & BLEED VALVE FOR METER PROVING.
 - TUBE (12.7 mm OD x 1.2 mm WALL 316 SST) TO CLOSED DRAIN HEADER.
 - SUR-FLO BACK PRESSURE REGULATOR PRESSURE LOADED WITH INSTRUMENT AIR.
 - TRUCK LOAD & UNLOAD PANEL c/w TICKET PRINTER.
 - FUTURE LSH & LSL CONNECTIONS.
 - SECOND BALL VALVE ON SAMPLE LINE TO BE SPRING LOADED TO CLOSE.
 - ALL PROCESS PIPING & AIR ELIMINATOR TO BE INTERNALLY COATED WITH DEVCOE 253.



ISSUED FOR CONSTRUCTION

OCT 23 2013



| PROJ. No. | REV. | REVISION DESCRIPTION | DATE | BY | CHK'D | APP'D |
|-----------|------|--|------------|-----|-------|-------|
| 2012126 | 0 | ISSUED FOR METER BUILDING CONSTRUCTION | 2013.10.23 | RAC | pm | |

TRIDYNE PROJ. No.: 2012126
DATE: 2012.11.20
DRAWN BY: R. Clark
CHECKED:
APPROVED:

Crescent Point ENERGY CORP

TRIDYNE PROJECTS CORPORATION

MANSON BATTERY
LSD: 16-04-13-28 W1M

MANSON BATTERY TRUCK STATION - METER BUILDING PIPING & INSTRUMENTATION DIAGRAM

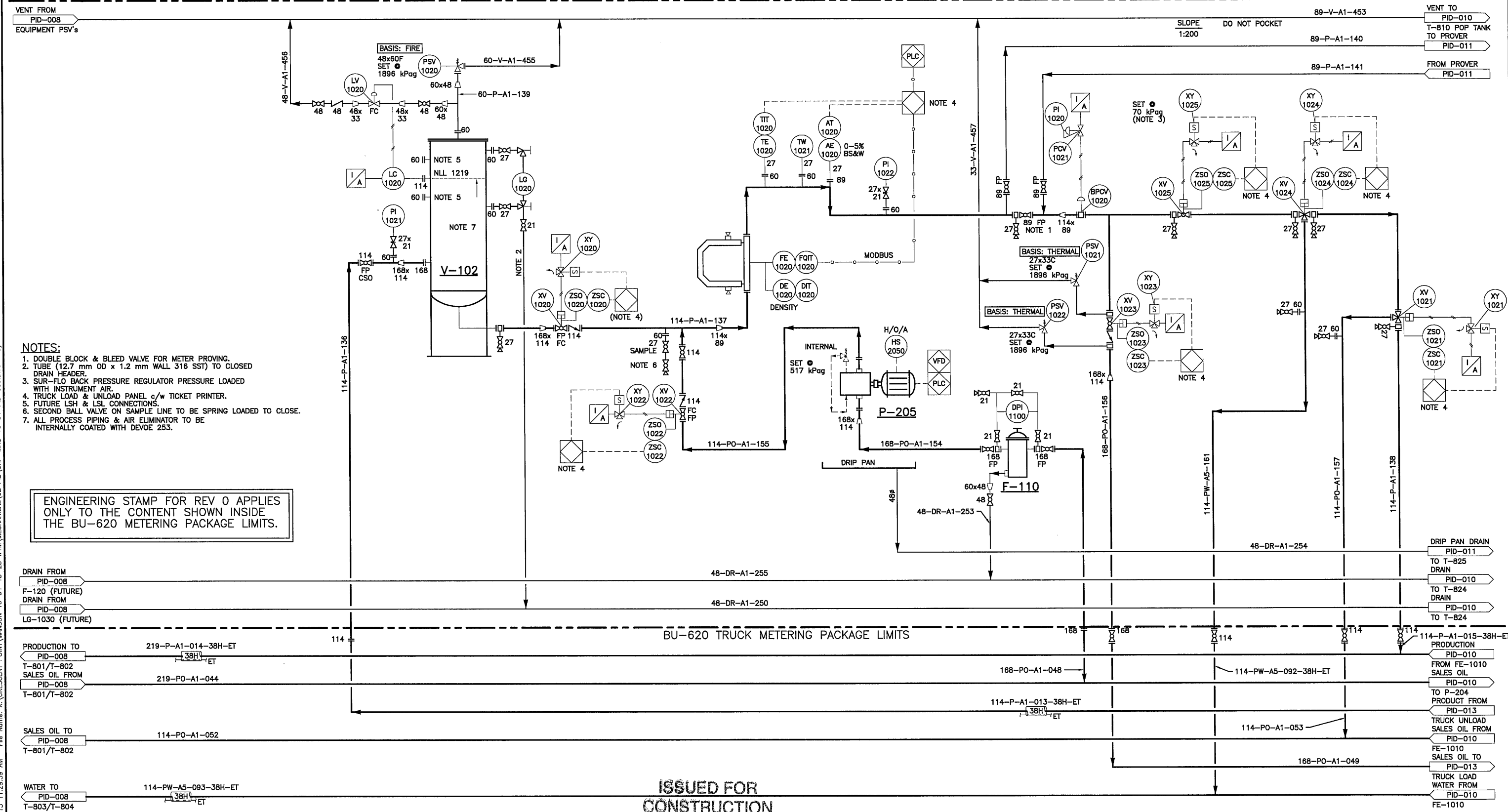
SCALE (D-SIZE): NONE
DWG No.: CRP-MNS-16-04-PID-008
REV. 0

File Name: X:\CRESCENT POINT\MANSON 16-04-13-28 W1M\MECHANICAL\02_PID\CRP-MNS-16-04-PID-008.DWG By: RC
Plot Date: Wednesday, 23 October 2013 12:07:58 PM

V-102
AIR ELIMINATOR
 D.P.: 1965 kPag @ 38°C
 SIZE: 508 mm OD x 1524 mm S/S
 C.A.: 3.0 mm

P-205
TRUCK LOADING PUMP
 RATED FLOW: 77.5 m³/h @ 345 kPa dP
 MOTOR: 30 HP/22.4 kW
 POWER: 575 VAC, 3 PHASE, 60 Hz

F-110
SUCTION STRAINER
 4" BF 150 QR
 STAINLESS STEEL BASKET c/w 3.2mm PREF.
 MAWP: 1965 kPag @ 38°C



- NOTES:**
1. DOUBLE BLOCK & BLEED VALVE FOR METER PROVING.
 2. TUBE (12.7 mm OD x 1.2 mm WALL 316 SST) TO CLOSED DRAIN HEADER.
 3. SUR-FLO BACK PRESSURE REGULATOR PRESSURE LOADED WITH INSTRUMENT AIR.
 4. TRUCK LOAD & UNLOAD PANEL c/w TICKET PRINTER.
 5. FUTURE LSH & LSL CONNECTIONS.
 6. SECOND BALL VALVE ON SAMPLE LINE TO BE SPRING LOADED TO CLOSE.
 7. ALL PROCESS PIPING & AIR ELIMINATOR TO BE INTERNALLY COATED WITH DEVCOE 253.

ENGINEERING STAMP FOR REV 0 APPLIES ONLY TO THE CONTENT SHOWN INSIDE THE BU-620 METERING PACKAGE LIMITS.

ISSUED FOR CONSTRUCTION

OCT 23 2013

| | | | | | | | | | |
|---------|---|--|------------|--|----|-----------|--|---|--|
| | | | | TRIDYNE PROJ. No.: 2012126 DATE: 2012.11.20 DRAWN BY: BH CHECKED: | | | | MANSON BATTERY LSD: 16-04-13-28 W1M MANSON BATTERY TRUCK STATION - METER BUILDING PIPING & INSTRUMENTATION DIAGRAM | |
| 2012126 | 0 | ISSUED FOR METER BUILDING CONSTRUCTION | 2013.10.23 | RAC | lm | APPROVED: | TRIDYNE PROJECTS CORPORATION | | SCALE (D-SIZE): NONE DWG No.: CRP-MNS-16-04-PID-009 REV: 0 |

Plot Date: Wednesday, 23 October 2013 11:29:59 AM File Name: X:\CRESCENT POINT\MANSON 16-04-13-28 W1M\MECHANICAL\02 PID\CRP-MNS-16-04-PID-009.DWG By: RC

Plot Date: Wednesday, 23 October 2013 3:08:19 PM File Name: X:\CRESCENT POINT\MANSON 16-04-13-28 W1M MECHANICAL 05 LISTS\CRP-MNS-16-04-LL-006.DWG By: RC

| LINE DESCRIPTION | | | | | | | | | PRESSURE (kPa) | | TEMP (°C) | | SCH OR WALL THK mm | NON-DESTR TEST | PWHT (NOTE 3) | COATINGS OR PAINT | PRESS PROT. PSV/OPPSD | COMMENTS | REV |
|------------------|------|------|-----|-------|-------|---------------------------|---------------------------|---------------------|----------------|----------|-----------|------|--------------------|----------------|---------------|-------------------|-----------------------|---------------------------------------|-----|
| SIZE | CODE | SPEC | NO | INSUL | TRACE | FROM | TO | DRAWING NUMBER | DESIGN | TEST (1) | DESIGN | MDMT | | | | | | | |
| 114 | P | A1 | 130 | - | - | 114-P-A1-012-38H-ET | V-101 | PID-010 | 1965 | 2948 | 38 | -29 | 40 | R | YES | P&P | PSV | INTERNALLY COAT WITH DEVOE 253 | 0 |
| 114 | P | A1 | 131 | - | - | V-101 | XV-1011 | PID-010 | 1965 | 2948 | 38 | -29 | 40 | R | YES | P&P | PSV | INTERNALLY COAT WITH DEVOE 253 | 0 |
| 114 | P | A1 | 132 | - | - | XV-1011 ON 114-P-A1-131 | 114-P-A1-016-38H-ET | PID-010 | 1965 | 2948 | 38 | -29 | 40 | R | YES | P&P | PSV | INTERNALLY COAT WITH DEVOE 253 | 0 |
| 60 | P | A1 | 133 | - | - | V-101 | PSV-1010 | PID-010 | 1965 | 2948 | 38 | -29 | 80 | R | YES | P&P | PSV | INTERNALLY COAT WITH DEVOE 253 | 0 |
| 89 | P | A1 | 134 | - | - | 114-P-A1-131 | 89-P-A1-142 | PID-010/011 | 1965 | 2948 | 38 | -29 | 40 | R | YES | P&P | PSV | INTERNALLY COAT WITH DEVOE 253 | 0 |
| 89 | P | A1 | 135 | - | - | 89-P-A1-143 | 114-P-A1-131 | PID-011/010 | 1965 | 2948 | 38 | -29 | 40 | R | YES | P&P | PSV | INTERNALLY COAT WITH DEVOE 253 | 0 |
| 114 | P | A1 | 136 | - | - | 114-P-A1-013-38H-ET | V-102 | PID-009 | 1965 | 2948 | 38 | -29 | 40 | R | YES | P&P | PSV | INTERNALLY COAT WITH DEVOE 253 | 0 |
| 114 | P | A1 | 137 | - | - | V-102 | XV-1021 | PID-009 | 1965 | 2948 | 38 | -29 | 40 | R | YES | P&P | PSV | INTERNALLY COAT WITH DEVOE 253 | 0 |
| 114 | P | A1 | 138 | - | - | XV-1021 ON 114-P-A1-137 | 114-P-A1-015-38H-ET | PID-009 | 1965 | 2948 | 38 | -29 | 40 | R | YES | P&P | PSV | INTERNALLY COAT WITH DEVOE 253 | 0 |
| 60 | P | A1 | 139 | - | - | V-102 | PSV-1020 | PID-009 | 1965 | 2948 | 38 | -29 | 80 | R | YES | P&P | PSV | INTERNALLY COAT WITH DEVOE 253 | 0 |
| 89 | P | A1 | 140 | - | - | 114-P-A1-137 | 89-P-A1-142 | PID-009/011 | 1965 | 2948 | 38 | -29 | 40 | R | YES | P&P | PSV | INTERNALLY COAT WITH DEVOE 253 | 0 |
| 89 | P | A1 | 141 | - | - | 89-P-A1-143 | 114-P-A1-137 | PID-011/009 | 1965 | 2948 | 38 | -29 | 40 | R | YES | P&P | PSV | INTERNALLY COAT WITH DEVOE 253 | 0 |
| 89 | P | A1 | 142 | - | - | 89-P-A1-134 & 89-P-A1-140 | 89-P-A1-010-25H-ET | PID-011 | 1965 | 2948 | 38 | -29 | 40 | R | YES | P&P | PSV | INTERNALLY COAT WITH DEVOE 253 | 0 |
| 89 | P | A1 | 143 | - | - | 89-P-A1-011-25H-ET | 89-P-A1-135 & 89-P-A1-141 | PID-011 | 1965 | 2948 | 38 | -29 | 40 | R | YES | P&P | PSV | INTERNALLY COAT WITH DEVOE 253 | 0 |
| 168 | PO | A1 | 150 | - | - | 168-PO-A1-047 | P-204 | PID-010 | 1965 | 2948 | 38 | -29 | 40 | R | YES | P&P | PSV | INTERNALLY COAT WITH DEVOE 253 | 0 |
| 114 | PO | A1 | 151 | - | - | P-204 | 114-P-A1-131 | PID-010 | 1965 | 2948 | 38 | -29 | 40 | R | YES | P&P | PSV | INTERNALLY COAT WITH DEVOE 253 | 0 |
| 168 | PO | A1 | 152 | - | - | 114-P-A1-131 | 168-PO-A1-050 | PID-010 | 1965 | 2948 | 38 | -29 | 40 | R | YES | P&P | PSV | INTERNALLY COAT WITH DEVOE 253 | 0 |
| 114 | PO | A1 | 153 | - | - | XV-1011 ON 114-P-A1-131 | 114-PO-A1-051 | PID-010 | 1965 | 2948 | 38 | -29 | 40 | R | YES | P&P | PSV | INTERNALLY COAT WITH DEVOE 253 | 0 |
| 168 | PO | A1 | 154 | - | - | 168-PO-A1-048 | P-205 | PID-009 | 1965 | 2948 | 38 | -29 | 40 | R | YES | P&P | PSV | INTERNALLY COAT WITH DEVOE 253 | 0 |
| 114 | PO | A1 | 155 | - | - | P-205 | 114-P-A1-137 | PID-009 | 1965 | 2948 | 38 | -29 | 40 | R | YES | P&P | PSV | INTERNALLY COAT WITH DEVOE 253 | 0 |
| 168 | PO | A1 | 156 | - | - | 114-P-A1-137 | 168-PO-A1-049 | PID-009 | 1965 | 2948 | 38 | -29 | 40 | R | YES | P&P | PSV | INTERNALLY COAT WITH DEVOE 253 | 0 |
| 114 | PO | A1 | 157 | - | - | XV-1021 ON 114-P-A1-137 | 114-PO-A1-053 | PID-009 | 1965 | 2948 | 38 | -29 | 40 | R | YES | P&P | PSV | INTERNALLY COAT WITH DEVOE 253 | 0 |
| 114 | PW | A5 | 160 | - | - | XV-1014 ON 114-P-A1-131 | 114-PW-A5-091-38H-ET | PID-010 | 1896 | 2844 | 38 | -29 | 40 | R | CODE | P&P | PSV | - | 0 |
| 114 | PW | A5 | 161 | - | - | XV-1024 ON 114-P-A1-137 | 114-PW-A5-092-38H-ET | PID-009 | 1896 | 2844 | 38 | -29 | 40 | R | CODE | P&P | PSV | - | 0 |
| 48 | DR | A1 | 250 | - | - | LEVEL GAUGE DRAIN HEADER | T-824 | PID-008/009/010/011 | ATM | 100 | 38 | -29 | 160 | R | YES | P&P | PSV | BUBBLE TEST, NON CODE | 0 |
| 48 | DR | A1 | 251 | - | - | F-100 | 48-DR-A1-255 | PID-010 | ATM | 100 | 38 | -29 | 160 | R | YES | P&P | PSV | BUBBLE TEST, NON CODE | 0 |
| 48 | DR | A1 | 252 | - | - | P-204 DRIP PAN | T-825 | PID-010/011 | ATM | 100 | 38 | -29 | 160 | R | YES | P&P | PSV | BUBBLE TEST, NON CODE | 0 |
| 48 | DR | A1 | 253 | - | - | F-110 | 48-DR-A1-255 | PID-009 | ATM | 100 | 38 | -29 | 160 | R | YES | P&P | PSV | BUBBLE TEST, NON CODE | 0 |
| 48 | DR | A1 | 254 | - | - | P-205 DRIP PAN | T-825 | PID-009/011 | ATM | 100 | 38 | -29 | 160 | R | YES | P&P | PSV | BUBBLE TEST, NON CODE | 0 |
| 48 | DR | A1 | 255 | - | - | STRAINER DRAIN HEADER | T-824 | PID-008/009/010/011 | ATM | 100 | 38 | -29 | 160 | R | YES | P&P | PSV | BUBBLE TEST, NON CODE | 0 |
| 60 | V | A1 | 451 | - | - | PSV-1010 | 89-V-A1-453 | PID-010 | ATM | 100 | 38 | -29 | 80 | R | YES | P&P | PSV | BUBBLE TEST, NON CODE | 0 |
| 48 | V | A1 | 452 | - | - | 60-P-A1-133 | 89-V-A1-453 | PID-010 | ATM | 100 | 38 | -29 | 160 | R | YES | P&P | PSV | BUBBLE TEST, NON-CODE | 0 |
| 89 | V | A1 | 453 | - | - | HEADER | 89-V-A1-421 | PID-008/009/010 | ATM | 100 | 38 | -29 | 40 | R | YES | P&P | PSV | BUBBLE TEST, NON CODE | 0 |
| 33 | V | A1 | 454 | - | - | PSV-1011 & PSV-1012 | 89-V-A1-453 | PID-010 | ATM | 100 | 38 | -29 | 160 | R | YES | P&P | PSV | BUBBLE TEST, NON CODE | 0 |
| 60 | V | A1 | 455 | - | - | PSV-1020 | 89-V-A1-453 | PID-009 | ATM | 100 | 38 | -29 | 80 | R | YES | P&P | PSV | BUBBLE TEST, NON CODE | 0 |
| 48 | V | A1 | 456 | - | - | 60-P-A1-139 | 89-V-A1-453 | PID-009 | ATM | 100 | 38 | -29 | 160 | R | YES | P&P | PSV | BUBBLE TEST, NON-CODE | 0 |
| 33 | V | A1 | 457 | - | - | PSV-1021 & PSV-1022 | 89-V-A1-453 | PID-009 | ATM | 100 | 38 | -29 | 160 | R | YES | P&P | PSV | BUBBLE TEST, NON CODE | 0 |
| 60 | V | A1 | 458 | - | - | T-824 | 89-V-A1-453 | PID-011/008 | ATM | 100 | 38 | -29 | 80 | R | YES | P&P | PSV | BUBBLE TEST, NON CODE | 0 |
| 33 | IA | A0 | 550 | - | - | 60-IA-A0-503 | HEADER | PID-008 | 1035 | SERVICE | 38 | -29 | 40 | PT | - | P&P | PSV | BUBBLE TEST, CATEGORY D FLUID SERVICE | 0 |

INSULATING & TRACING: C Cold Insulation
H Heat Insulation
A Acoustic Insulation
PP Personnel Insulation
*** Glass Foam Insulation Underground Only

ET Electric Trace
ST Steam Trace
GT Glycol Trace
QT Hot Oil Trace
TC Heat Transfer Cement (On Tracing)

TESTING: VE Visual Examination
MP Magnetic Particle
LP Liquid Penetrant
UE Ultrasonic Examination

R 100% Radiography of 100%
RR Random Radiography (100% of 10%)
SR Spot Radiography
PT Pneumatic Test
** Service Test CAT. "D" Fluid

CLEANING: MC Mechanically Clean
CC Chemically Clean
SO Steam-out
CO Dry-out
DF Detergent Flush

COATING & PAINT: P&P Prime & 2 Coats Finish Paint
P Prime

NOTE:
1. HYDROTEST TO 1.5 x FLANGE CLASS 38°C RATING UNLESS WALL THICKNESS LIMITS.
2. ALL PIPING SYSTEMS DESIGNED TO ASME B31.3 (2012) UNLESS NOTED OTHERWISE.
3. WELD PROCEDURE AND HARDNESS TESTING CAN BE USED IN LIEU OF STRESS RELIEVING PER CPEC'S SOUR SERVICE SUPPLEMENT.

ISSUED FOR CONSTRUCTION

OCT 23 2013

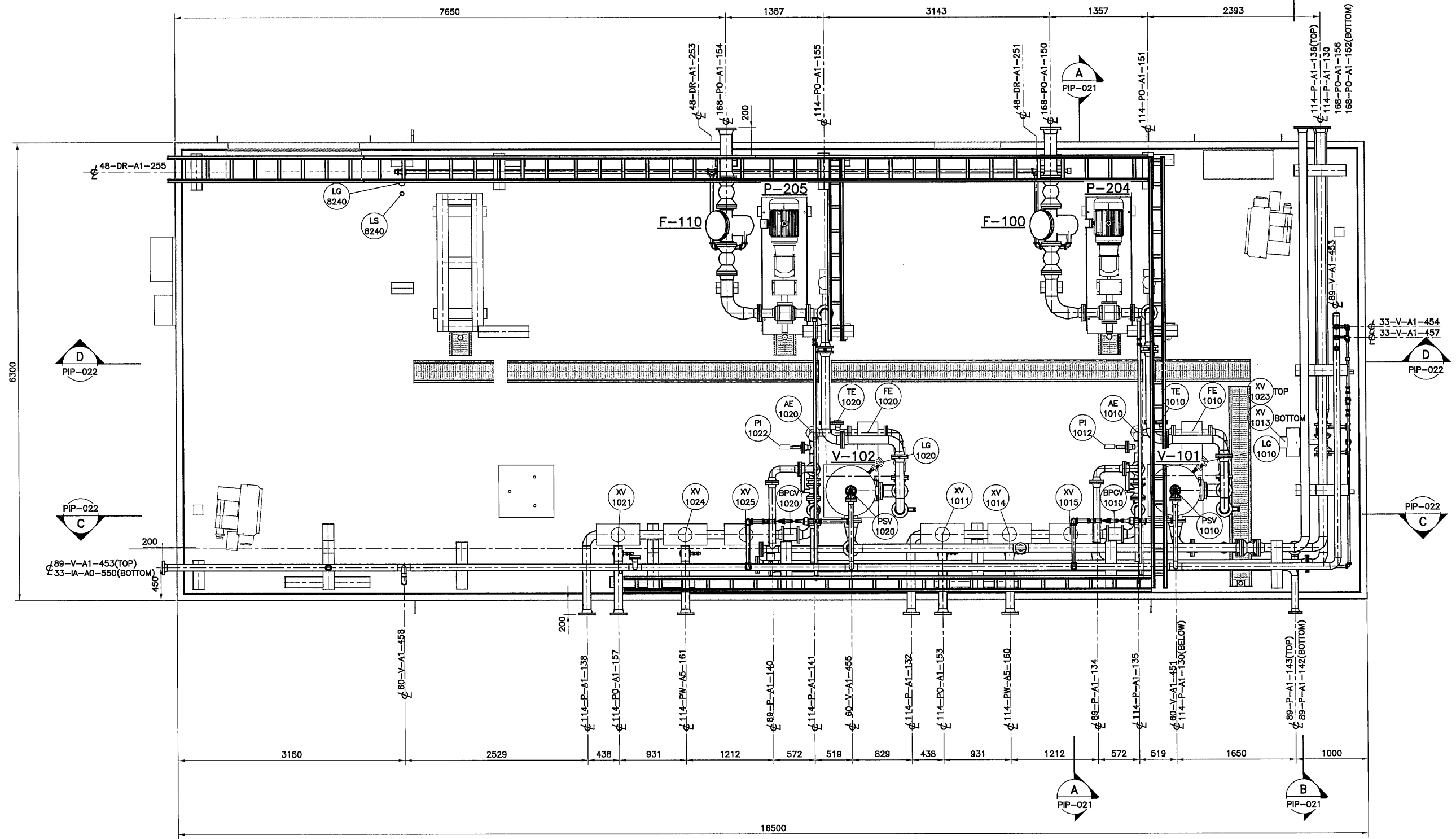
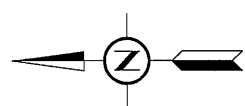
| 2012126 | 0 | ISSUED FOR METER BUILDING CONSTRUCTION | 2013.10.23 | RAC | | |
|-----------|------|--|------------|-----|-------|-------|
| PROJ. No. | REV. | REVISION DESCRIPTION | DATE | BY | CHK'D | APP'D |

TRIDYNE PROJECTS CORPORATION

MANSON BATTERY
TRUCK STATION
METER BUILDING
LINE LIST

| | | | | |
|----------------------------|-------------------------------|--------------------|----------|-----------|
| TRIDYNE PROJ. No.: 2012126 | DATE: 2013.07.18 | DRAWN BY: R. Clark | CHECKED: | APPROVED: |
| SCALE (D-SIZE): NONE | DWG No.: CRP-MNS-16-04-LL-006 | REV. 0 | | |

Plot Date: Wednesday, 23 October 2013 12:10:52 PM File Name: x:\CRESCENT POINT\MANSON 16-04-13-28 W1M\MECHANICAL\03 ORTHO\CRP-MNS-16-04-PIP-020.DWG By: RC



ISSUED FOR
CONSTRUCTION

OCT 23 2013

| REFERENCE DRAWING | DESCRIPTION |
|-------------------|-------------|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

ZOLTMAN
Member
33882

APEGM
Certificate of Authorization
Tridyne Projects Corporation
No. 4854 Date 08/23/13

| PROJ. No. | REV. | REVISION DESCRIPTION | DATE | BY | CHK'D | APP'D |
|-----------|------|-------------------------|------------|-----|-------|-------|
| 2012126 | 0 | ISSUED FOR CONSTRUCTION | 2013.10.23 | RAC | /m | |

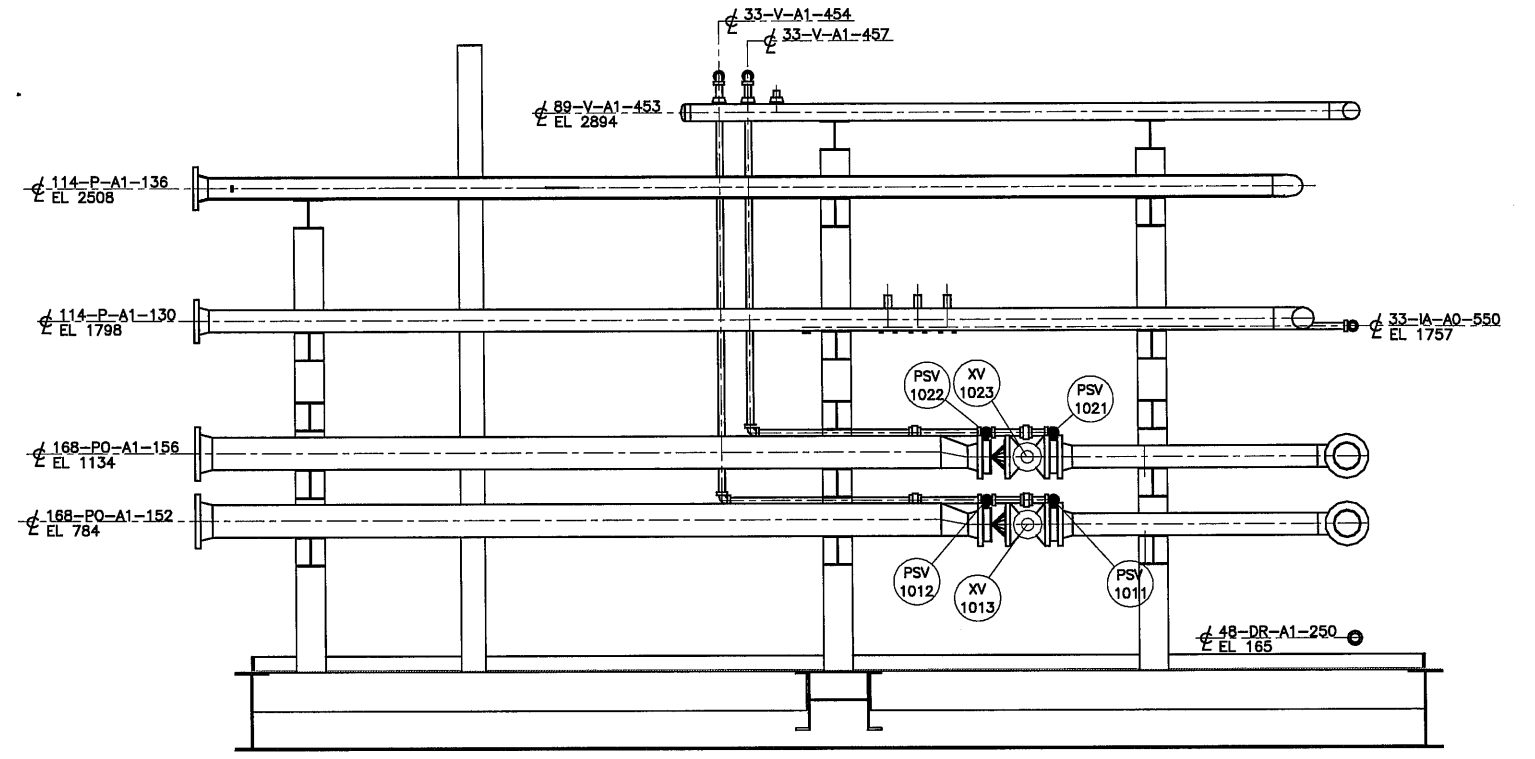
Crescent Point
ENERGY CORP

TRIDYNE PROJECTS
CORPORATION

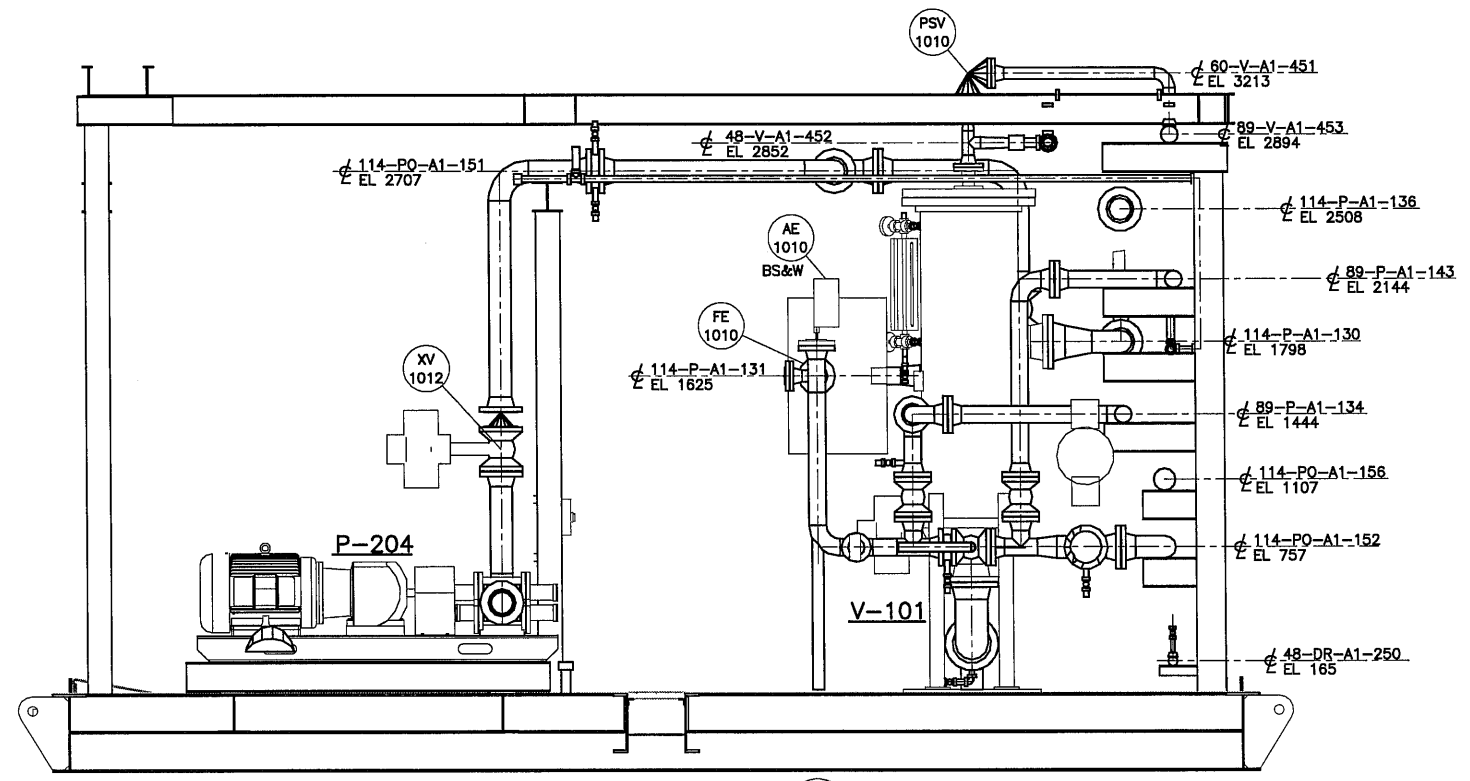
| | | |
|--|-----------------------------------|-----------|
| MANSON 16-04 BATTERY | | |
| LSD: 16-04-13-28 W1M | | |
| MANSON BATTERY TRUCK STATION METER BUILDING PIPING PLAN | | |
| SCALE (D-SIZE): NONE | DWG No.: CRP-MNS-16-04-PIP-020 | REV. 0 |

TRIDYNE PROJ. No.:
2012126
DATE:
2013.08.09
DRAWN BY:
RAC
CHECKED:
APPROVED:

Plot Date: Wednesday, 23 October 2013 10:02:36 AM File Name: X:\CRESCENT POINT\MANSON 16-04-13-28 W1M\MECHANICAL\03 ORTHO\CRP-MNS-16-04-PIP-021.DWG By: RC



B SECTION
PIP-020



A SECTION
PIP-020

ISSUED FOR
CONSTRUCTION

OCT 23 2013

| | | | | | | | | | |
|-------------------|-------------|------------------|--|---|--|--|--|--|--|
| | | | | TRIDYNE PROJ. No.: 2012126 DATE: 2013.08.06 DRAWN BY: R. Clark CHECKED: APPROVED: | | | | MANSON 16-04 BATTERY LSD: 16-04-13-28 W1M MANSON BATTERY TRUCK STATION METER BUILDING PIPING SECTIONS | |
| REFERENCE DRAWING | DESCRIPTION | STAMPS & PERMITS | | 2012126 0 ISSUED FOR CONSTRUCTION PROJ. No. REV. REVISION DESCRIPTION | 2013.10.23 RAC pm DATE BY CHK'D APP'D | SCALE (D-SIZE): 1:15 DWG No.: CRP-MNS-16-04-PIP-021 | | REV. 0 | |

