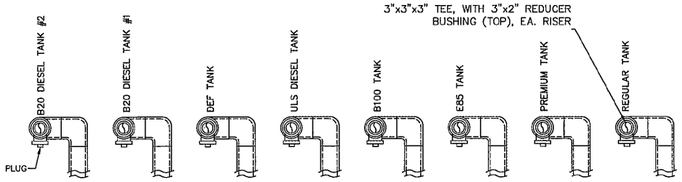
## NOTES:

1. ALL CLAMPS ON SECONDARY CONTAINMENT TO BE TORQUED TO 60 FT. LBS.
2. SEE SITE PLAN FOR SPECIFIC TANK AND DISPENSER QUANTITIES, LOCATIONS, CAPACITIES, ETC.

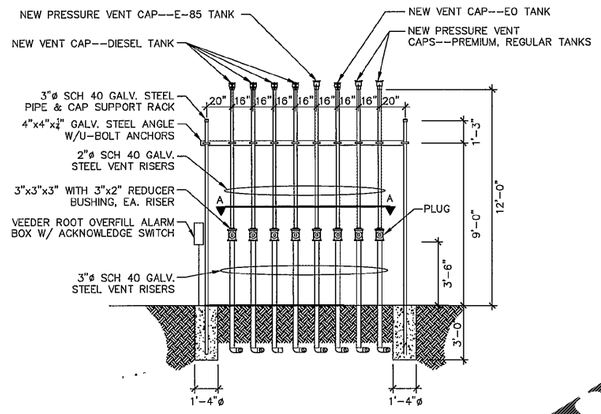
3A. ALL THREADED METAL PIPE CONNECTIONS TO BE MADE UP WITH GASOILA–E–SEAL FOR GASOLINE LINES AND JOMAR "THE HEAVYWEIGHT" FOR DIESEL LINES. NO SUBSTITUTIONS WILL BE ACCEPTED.

3B. ALL CONNECTIONS OF FIBER GLASS PIPE THREADED COUPLINGS TO METAL PIPE SHALL BE DONE USING 7000 OR 8000 SERIES ADHESIVE.

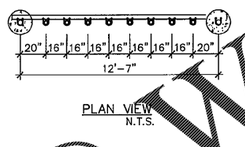
4. CONTRACTOR TO CHECK ALL FACTORY CONNECTIONS ON DISPENSER MOUNTING BOXES FOR ADEQUATE SEALING OF PRODUCT.
5. ALL FIBERGLASS PIPING & FITTINGS TO BE AMERON DUALOY 3000/LCX COAXIAL
6. ALL PIPING (PRODUCT, STAGE TWO VAPOR RECOVERY, SECONDARY CONTAINMENT) TO SLOPE 1/8" PER FOOT BACK TO TANK.
7. USE ONLY 8000 OR 7000 SERIES ADHESIVES TO JOIN PRIMARY PRODUCT AND SECONDARY CONTAINMENT PIPE AND FITTINGS (DS–8014, DS–8024, DS–8055, DS–8069, DS–7014, DS–7024, OR DS–7069 ADHESIVE KITS) FOR ALCOHOLS AND ALCOHOL–GASOLINE MIXTURES. WHEN JOINING SECONDARY CONTAINMENT FITTINGS, A SPECIAL FILLER FROM SMITH FIBERGLASS PRODUCTS MUST BE ADDED TO THE 8000 AND 7000 SERIES ADHESIVES. WHEN USING THESE ADHESIVES, FOLLOW THE INSTRUCTIONS PACKAGED WITH EACH ADHESIVE KIT.
8. ALL DISPENSER BOX PENETRATIONS TO BE TESTED WITH WATER FOR LEAKS PRIOR TO BACKFILLING AROUND BOX.
9. ALL STAGE TWO VAPOR RECOVERY LINES TO BE BLOCK TESTED BY G.C. PRIOR TO PAVING OVER PIPING.
10. G.C. RESPONSIBLE FOR PAINTING ALL EXPOSED METAL ON VENT RISERS AND SUPPORTS.
11. ALL GALVANIZED RISER PIPE & FITTINGS THAT COMES IN CONTACT WITH BACKFILL SOIL OR PEA GRAVEL IS TO BE COATED WITH A BITUMINOUS COATING AND WRAPPED W/3M TAPE FOR CORROSION PROOFING.
12. ACCESS TO SECONDARY IS OPEN IN AT LEAST ONE FITTING IN THE SUMP.
14. ALL PIPING AND ELECTRICAL INSTALLATIONS MUST CONFORM TO ALL APPLICABLE REGULATIONS INCLUDING NFPA30, FLAMMABLE & COMBUSTIBLE LIQUIDS CODE; NFPA30A, AUTOMOTIVE & MARINE SERVICE STATION CODE; NFPA70, NATIONAL ELECTRICAL CODE. DO NOT "DAISY CHAIN" THE DISPENSER POWER CIRCUIT TO ANY OTHER EQUIPMENT.
15. SLOPE PIPING FROM TANK TO DISPENSER UPWARDS, AVOIDING AIR OR LIQUID TRAPS.
16. USE UNIVERSAL JOINTS AT DISPENSER TO ALLOW FOR GROUND MOVEMENT.
17. USE ANY OR ALL CONDUIT TAPS SHOWN TO MAKE ELECTRICAL CONNECTIONS TO DISPENSER.
18. FIRMLY MOUNT DISPENSER TO THE ISLAND USING THE ANCHOR BOLT LOCATIONS SHOWN.
19. BREAKAWAY DEVICES ARE EXAMPLES OF REQUIREMENTS STATED IN THE NFPA30A AUTOMOTIVE & MARINE SERVICE STATION CODE. THESE, AS WELL AS ANY OTHER SAFETY DEVICES REQUIRED BY NFPA30 & 30A, MUST BE INSTALLED AND MAINTAINED PER THE MANUFACTURER'S INSTRUCTIONS.
20. SPEAKER INSTALLATION WIRING IS LOCATED IN JUNCTION BOX. CONNECT INTERCOM CIRCUIT TO A LISTED CLASS 2 POWERED INTERCOM ONLY WITH BELDEN #88723, 22GA, 2–PAIR, 300 VOLT, SHIELDED CABLE. WIRES BACK TO INTERCOM CONSOLE MUST BE RUN IN SEPARATE DEDICATED CONDUIT.
21. ALL EQUIPMENT USED FOR E85 FUEL SHALL BE COMPATIBLE WITH THE PRODUCT.




SECTION A–A (TYP.)
N.T.S.




FRONT VIEW
N.T.S.




PLAN VIEW
N.T.S.

D / T1.0 VENT RISER DETAILS
N.T.S.

## FUELING EQUIPMENT LIST

| APRIL 15 2019 (EDO/TC) PART DESCRIPTION | SPECIFICATION | QUANTITY | FURN. | EQ. NUM. |
|---|---|---|---|---|
| UNDERGROUND STORAGE TANKS | | | | |
| XERXES DOUBLE WALL FIBERGLASS, UL 1316, 10'ø, 20,000 GALLON UST W/XERXES MANUFACTURED DEADMAN ANCHORS. | XERXES CORPORATION | ONE | OWNER | EQ–200 |
| XERXES DOUBLE WALL FIBERGLASS, UL 1316, 10'ø, 24,000 GALLON UST COMPARTMENTED (12K–12K) W/XERXES MANUFACTURED DEADMAN ANCHORS. | DOUBLE WALL FIBERGLASS TANKS SEE SITE PLAN FOR TANK CONFIGURATION | TWO | OWNER | EQ–200 |
| XERXES DOUBLE WALL FIBERGLASS, UL 1316, 10'ø, 24,000 GALLON UST W/XERXES MANUFACTURED DEADMAN ANCHORS. | | ONE | OWNER | EQ–200 |
| XERXES DOUBLE WALL FIBERGLASS, UL 1316, 10'ø, 24,000 GALLON UST COMPARTMENTED (18K–6K) W/XERXES MANUFACTURED DEADMAN ANCHORS. | | ONE | OWNER | EQ–200 |
| 42" SUMP COLLARS | | SEE PLANS | OWNER | |
| HOLD DOWN STRAPS/TURNBUCKLES | | SEE PLANS | OWNER | |
| TANK EQUIPMENT | | | | |
| 4 HP VARIABLE SUBMERGED TURBINE PUMP W/IFS–AG–COMPATIBLE VARIABLE FREQUENCY CONTROLLER | FE–PETRO STP (S) HIGH CAPACITY | 3 | OWNER | EQ–335 |
| 2 HP VARIABLE SUBMERGED TURBINE PUMP W/IFS–AG–COMPATIBLE | FE PETRO: COMPARTMENTED TANKS | 1/COMPARTMENT | OWNER | EQ–335 |
| 4 HP VARIABLE SUBMERGED TURBINE PUMP W/IFS–AG–COMPATIBLE | FE PETRO: REGULAR TANK ONLY | 2/TANK | OWNER | EQ–335 |
| 2 HP STAINLESS STEEL DEF SUBMERGED TURBINE PUMP | OEC MODEL DIVER 380 MHF W/CONTROLLER & RELEIF VALVE | 1 | OWNER | EQ–335 |
| VARIABLE FREQUENCY CONTROLLER (VFC) | FE PETRO | 1/STP | OWNER | |
| 42" STP CONTAINMENT SUMPS, CURB MOUNT (TURBINE) | PETROLEUM CONTAINMENT TS424242–3CO | 1/STP | OWNER | EQ–203 |
| 42" CONTAINMENT SUMPS, CURB MOUNT (VAPOR) | PETROLEUM CONTAINMENT TS424242–3CO | 1/SPLIT TANK | OWNER | EQ–203 |
| FLEXIBLE TEE FLEX CONNECTOR ASSEMBLY W/EZ FIT | FLX–21[illegible]S–EZT | 1/DIESEL STP | OWNER | |
| FLEXIBLE ELBOW FLEX CONNECTOR ASSEMBLY W/EZ FIT | FLX–21[illegible]–EZ90 | 1/GASOLINE STP | OWNER | |
| FLEXIBLE ELBOW FLEX CONNECTOR ASSEMBLY W/EZ FIT | FLX–21[illegible]S–EZ90–SS | 1/FUTURE STP | OWNER | |
| 15 GALLON SPILL CONTAINER–FILL | EMCO WHEATON EW–A1004–EVR–215S | 1/PRODUCT | OWNER | EQ–695 |
| 4" X 4" TIGHT FILL BRASS ADAPTER | EMCO WHEATON EW–A30–124 | 1/PRODUCT | OWNER | |
| 4" TIGHT FILL CAP | EMCO WHEATON EW–A97–005 | 1/PRODUCT | OWNER | |
| 4" DROP TUBE–17" | EW–A20–007 | 1/PRODUCT/TANK | OWNER | |
| REMOTE FILL CAP | EMCO WHEATON #493436 | 1/DIESEL TANK | OWNER | |
| 5 GALLON SPILL CONTAINER–VAPOR | EMCO WHEATON EW–A1004–211A–EVR | 1/SITE | OWNER | EQ–594 |
| VAPOR RECOVERY 4" X 4" ADAPTER–SWIVEL | EMCO WHEATON EW–A76–124 | 1/SITE | OWNER | |
| VAPOR RECOVERY 4" CAP | EMCO WHEATON EW–A99–002 | 1/SITE | OWNER | |
| 4" X 4" X 2" TEE, EXTRACTOR FITTING (DIESEL PRODUCT) | OPW–233–4420 | 1/PRODUCT/TANK | OWNER | |
| 4" X 4" X 3" X 4" EXTRACTOR FITTING (GASOLINE + FUTURE PRODUCT) | OPW–233–4432 | 1/PRODUCT/TANK | OWNER | |
| 4" PIPE CAP | OPW–116–7085 | 1/PRODUCT/TANK | OWNER | |
| O/F PREVENTION VALVE, EXCLUDING ATLANTA METRO AREA LOCATIONS | EMCO WHEATON EW–A1100 GAURDIAN | 1/PRODUCT/TANK | OWNER | EQ–414 |
| O/F PREVENTION VALVE, ATLANTA METRO AREA LOCATIONS ONLY | OPW 71 SO | 1/PRODUCT/TANK | OWNER | EQ–697 |
| PRESSURE/VACUUM VENT CAP, GASOLINE, E85 & BLENDED PRODUCTS | OPW 723V | 1/PRODUCT/TANK | OWNER | |
| 2" FILL CAP, DIESEL | OPW–23–0033 | 1/PRODUCT/TANK | OWNER | |
| MONITORING WELL CASING WITH LOCKING CAP (ONLY WHERE REQUIRED) | VARIES | SEE PLAN | G.C. | |
| 12" MONITORING WELL MANHOLE (ONLY WHERE REQUIRED) | VARIES | 1/WELL | OWNER | |
| 18" WATERTIGHT MANHOLE | EW–A717–018BD | SEE PLANS | OWNER | |
| 24" WATERTIGHT MANHOLE | P–110–24WT | SEE PLANS | OWNER | |
| 39" WATERTIGHT MANHOLE W/ ROTO LOCK | OPW CONQUISTADOR | 1/STP SUMP | OWNER | |
| 39" WATERTIGHT MANHOLE W/ ROTO LOCK | OPW CONQUISTADOR | 1/TRANSITION SUMP | OWNER | |
| 39" WATERTIGHT MANHOLE W/ ROTO LOCK | OPW CONQUISTADOR | 1/VAPOR SUMP | OWNER | |
| TANK IDENTIFICATION PLATES | VARIES | 1/PRODUCT | OWNER | |
| PRODUCT PIPING & TRANSITION SUMPS | | | G.C. | EQ–291 |
| D/W PIPING 2", 3", & 4" FIBERGLASS PIPE W/SECONDARY CONTAINMENT | A.O. SMITH RED THREAD II FIBERGLASS | SEE PLANS | G.C. | EQ–378 |
| S/W PIPING 2", 3", & 4" FIBERGLASS PIPE | FUEL PIPING | | G.C. | EQ–378 |
| | | | OWNER | EQ–203 |
| 60" PCI TRANSITION SUMP (PIPING) | PETROLEUM CONTAINMENT TS484848–3BO | SEE PLANS | G.C. | |
| 2" BALL VALVES | SEE PLAN | SEE PLANS | | |
| DISPENSER EQUIPMENT – FRONT (AUTO ISLANDS) | | | | |
| MPD W/SPEAKER KIT, CALL BUTTON AND CRIND | GILBARCO ENCORE 700S | SEE PLAN | OWNER | |
| MPD CONSOLE – AUTO | RADIANT | 1/SITE | OWNER | |
| MPD DISPENSER CONTAINMENT BOX WITH 4 STABILIZER BARS – AUTO | PETROLEUM CONTAINMENT DCL–146360 | 1/MPD | OWNER | EQ–203 |
| DISPENSER/PIPING SUMP ENTRY ADAPTERS | SMITH FG SP 4X3CR & SP–SE/FT–3 | SEE PLAN | OWNER | |
| STAGE II DISPENSER/PIPING SUMP ENTRY ADAPTERS | SMITH FG SP–SE/FT–2SW | SEE PLAN | OWNER | |
| 1 1/2" X 12" FLEX CONNECTOR | FLX–11212MMS–SS | 4/MPD | OWNER | |
| TEST TEE AND 1" BALL VALVE (ONLY IN STAGE II AREAS) | SEE PLAN | 1/MPD | G.C. | |
| HOSE/NOZZLE/BREAK–AWAY ASSEMBLY–GASOLINE (ASSEMBLED BY G.C.) | OPW 11BP SERIES OR EQUAL, UL LISTED AUTOMATIC NOZZLE, MAX. HOSE LENGTH = 18'–0" | 2/MPD | OWNER | |
| HOSE/NOZZLE/BREAK–AWAY ASSEMBLY–DIESEL (ASSEMBLED BY G.C.) | OPW 11B OR EQUAL, UL LISTED AUTOMATIC NOZZLE, MAX. HOSE LENGTH = 18'–0" | 2/MPD | OWNER | |
| 1 1/2" EMERGENCY VALVE FEMALE | OPW 10P | 5/MPD | OWNER | |
| PUMP TOPPERS | DISPENSER | SEE PLAN | OWNER | |
| ISLAND FORMS | FORMEX OR EQUAL | SEE PLAN | OWNER | |
| DISPENSER EQUIPMENT – TRUCK ISLANDS | | | | |
| TRUCK FUEL DISPENSER W/SPEAKER KIT, CALL BUTTON AND CRIND | GILBARCO ENCORE M/S WITH DEF | SEE PLAN | OWNER | |
| TRUCK FUEL DISPENSER CONSOLE | RADIANT | 1/SITE | OWNER | |
| GILBARCO ENCORE MASTER SATELLITE WITH DEF DISPENSER CONTAINMENT BOX WITH 3 STABILIZER BARS SVA–800 | PETROLEUM CONTAINMENT | 1/MPD | OWNER | |
| DISPENSER/PIPING SUMP ENTRY ADAPTERS | FG SP 4X3CR & SP–SE/FT–3 | SEE PLAN | OWNER | |
| 1 1/2" X 12" FLEX CONNECTOR | FLX–11212MMS–SS | 4/MPD | OWNER | |
| HOSE/NOZZLE/BREAK–AWAY ASSEMBLY–DIESEL (ASSEMBLED BY G.C.) | OPW 7HB OR EQUAL, UL LISTED AUTOMATIC NOZZLE, MAX. HOSE LENGTH = 18'–0" | 2/MPD | OWNER | |
| 1 1/2" EMERGENCY VALVE FEMALE | OPW 10BF | 4/MPD | OWNER | |
| PUMP TOPPERS | DISPENSER | SEE PLAN | OWNER | |
| ISLAND FORMS | FORMEX OR EQUAL | SEE PLAN | OWNER | |
| MISCELLANEOUS EQUIPMENT | | | | |
| 3/4" ELECTRICAL GROMMET | | 1/STP AND 1/MPD | OWNER | |
| 1" ELECTRICAL GROMMET | OPW REF–XXXXC | 2/STP–1 | OWNER | |
| 2" ELECTRICAL GROMMET | | 1/MPD | OWNER | |
| EXPLOSION PROOF ELECTRICAL JUNCTION BOX | CROUSE–HINDS | SEE PLAN | G.C. | |
| MONITORING EQUIPMENT | | | | |
| TANK MONITOR & FUEL GAUGE | VEEDER ROOT TLS350 PLUS | 1/SITE | OWNER | EQ–033 |
| LINE LEAK DETECTOR | VEEDER ROOT 848480–001 | 1/PUMP | OWNER | EQ–271 |
| INTERSTITIAL MONITORING | VEEDER ROOT 794390–420 | 1/TANK | OWNER | EQ–614 |
| SUMP (STP, TRANSITION & DISPENSER) MONITORING | VEEDER ROOT 794380–208 | 1/SUMP | OWNER | EQ–197 |

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DEC 13 2019
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GA REG # PE013997

PROJECT NUMBER
18213

SHEET TITLE
**VENT RISER, EQUIPMENT LIST AND NOTES**

SHEET NUMBER
**RT-T4.1**

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