A. GENERAL

1.0 REFERENCE TO GENERAL CONTRACTOR IS DENOTED BY G.C.

2.0 THE WORK COMPLETED UNDER THESE SECTION(S) WILL INCLUDE ALL TANK(S), PIPING, EQUIPMENT AND RELATED INSTALLATION WORK NECESSARY FOR A COMPLETE AND OPERATING PETROLEUM PRODUCT STORAGE, HANDLING AND DISPENSING SYSTEM. THE REQUIREMENTS SPECIFIED HEREIN SHALL SUPPLEMENT THOSE SPECIFIED BY THE OWNER'S "REQUIREMENTS FOR GENERAL CONSTRUCTION". REFER TO THE SCOPE OF WORK, PLANS OR INSTRUCTIONS FROM THE OWNER'S REPRESENTATIVE FOR SITE SPECIFIC DETAILS AND REQUIREMENTS.

3.0 ALL WORK SHALL BE PERFORMED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH FEDERAL "UNDERGROUND STORAGE TANKS: TECHNICAL REQUIREMENTS" (40CPR PART 280), STATE AND MUNICIPAL REQUIREMENTS, AND MOST CURRENT EDITIONS OF THE APPLICABLE NPPA, PEI, AND API REFERENCE STANDARDS.

4.0 G.C. SHALL KEEP SITE FREE OF WASTES AND RUBBISH AT ALL TIMES.

5.0 G.C. SHALL ENSURE COMPLIANCE WITH O.S.H.A. AND ALL OTHER REGULATIONS AND RACETRAC'S CONTRACTUAL REQUIREMENTS. ASSOCIATED COMPLIANCE EXPENSES, EXCEPT AS DESCRIBED IN B-1.3, SHALL BE G.C. RESPONSIBILITY.

6.0 WHERE INSTALLATIONS ARE MADE AT AN EXISTING STATION OR STORE, WORK SHALL BE SCHEDULED AND PERFORMED SO AS TO MINIMIZE INTERFERENCE WITH THE OPERATION OF THOSE FACILITIES. ALL DEBRIS, EXCESS EXCAVATED MATERIALS, MACHINERY, AND EQUIPMENT SHALL BE REMOVED DAILY AND MAINTAINED CLEAR OF OPEN DRIVEWAYS AT ALL TIMES. LIGHTED SAFETY BARRICADES SHALL BE PROVIDED FOR THE PUBLIC'S PROTECTION. WHEN IT BECOMES NECESSARY TO CLOSE A DRIVEWAY, OWNERS REPRESENTATIVE SHALL BE NOTIFIED 72 HRS PRIOR TO CLOSURE.

7.0 ALL EQUIPMENT, MATERIALS, PIPING, TANKS AND ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MANUFACTURER'S INSTRUCTIONS.

8.0 ALL LOCAL REGULATIONS MUST BE FOLLOWED.

B. REMOVAL & DISPOSITION OF EXISTING TANKS (WHEN REQ'D)

1.0 EVACUATE PRODUCT FROM TANKS AND LINES.

1.1 FOR STP SYSTEM, DRAIN LINES INTO TANK BY REMOVING STP CHECK VALVE AND OPENING SAFETY VALVE TEST PORT. DISCONNECT STP UNION / SWING AND DRAIN PRODUCT INTO AN APPROVED CONTAINER.

1.2 DO NOT BLOW OUT LINES WITH COMPRESSED AIR. USE NITROGEN. PRODUCT REMOVED FROM LINES BECOMES PROPERTY OF G.C. AND MAY BE USED AS MOTOR FUEL.

1.3 REMOVE LIQUID & TANK BOTTOMS USING A VACUUM TRUCK IN LIEU OF ON-SITE STORAGE CONTAINERS. DEPENDING ON LOCAL REGULATIONS, RECOVERED MATERIAL MAY BE MANAGED AS OFF-SPEC PRODUCT, SOLID INDUSTRIAL OR HAZARDOUS WASTE. IF MATERIAL MUST BE MANAGED AS A HAZARDOUS WASTE, FOLLOW OWNER'S ENVIRONMENTAL REQUIREMENTS FOR HANDLING, MANIFESTING AND DISPOSAL. ONLY OWNER APPROVED HAZARDOUS WASTE DISPOSAL FACILITIES SHALL BE USED. CONSULT THE APPROPRIATE ENVIRONMENTAL ENGINEERING CONTACT FOR PROCESSING ASSISTANCE IN ALL CASES.

2.0 EXCAVATE TO TANK TOP, REMOVE ALL TANK APPURTENANCES, PLUG ALL OPENINGS, REMOVE TANK AND PLACE IN A SECURE LOCATION. ONE TANK PLUG MUST HAVE AN 1/8" HOLE IN PLUG FOR VENTING.

3.0 REPEAT B-1.3 THROUGH ALL TANK FITTINGS TO REMOVE REMAINING RESIDUE. RESIDUE SHALL BE MANAGED PER B-1.3.

4.0 DECREASE TANK TO LESS THAN 10% OF THE LOWER EXPLOSION LIMIT (LEL) PER THE FOLLOWING.

PREFERRED METHOD (INERTING):
INERT VAPORS BY ADDING A MINIMUM OF 1.5 LBS DRY ICE, PER 100 GALLONS OF TANK CAPACITY.

ALTERNATE METHOD (PURGING):
VENTILATE TANK USING AN EVACATOR OR DIFFUSER. (EVACATOR MUST EXTEND 12 FT. MINIMUM ABOVE TANK TOP. A VENT LINE EXTENDING 12 FT. MINIMUM ABOVE TANK TOP MUST BE ATTACHED TO TANK WHEN USING A DIFFUSER).

5.0 ALL TANKS MUST BE DEGASSED AND CERTIFIED "CLEAN" BY G.C.

6.0 PRIOR TO TRANSPORTING ANY TANK FROM SITE, LEGIBLY LABEL AS FOLLOWS:

"TANK HAS CONTAINED FLAMMABLE LIQUIDS. NOT GAS FREE. NOT SUITABLE FOR FOOD OR DRINKING WATER."

7.0 OWNER'S ENGINEER SHALL INSPECT OPEN EXCAVATION FOR EVIDENCE OF ALL HYDROCARBON RELEASE.

C. EXCAVATION

1.0 SIDES OF TANK HOLE EXCAVATION SHALL BE SLOPED IN ACCORDANCE WITH O.S.H.A. "CONSTRUCTION SAFETY & HEALTH REGULATIONS", SUBPART P-EXCAVATIONS, TRENCHING 1562650 THRU 1926653, RECOMMENDATIONS. FILTER FABRIC CLOTH SHALL BE USE TO LINE BOTTOM AND SIDES OF TANK HOLE PRIOR TO GRAVEL BACKFILL. FILTER FABRIC CLOTH SHALL ALSO LAP TOP OF TANKS TO PREVENT INFILTRATION OF EARTH INTO TANK AREAS.

2.0 EXCAVATION SHALL BE SIZED TO PROVIDE A MINIMUM 1FT TANK BED, 3FT BETWEEN TANKS AND 2FT BETWEEN TANK SIDES/ENDS AND EXCAVATION WALLS.

3.0 OWNER RESERVES THE RIGHT TO DESIGN AND/OR CONSTRUCT SHORING UNDER AN AMENDED AGREEMENT WITH G.C. OR SEPARATELY WITH ANOTHER COMPANY. IF OWNER ENGAGES G.C., G.C. SHALL SUBMIT SHORING DESIGN TO OWNER'S ENGINEER FOR APPROVAL. SUPPLEMENTAL JOB SCOPE AND COST SHALL BE AGREED TO IN TERMS OF A CONTRACT CHANGE ORDER PRIOR TO COMMENCING WORK. SHORING SHALL BE REMOVED PRIOR TO INSTALLING PRODUCT PIPING. DO NOT ABANDON SHORING IN PLACE.

D. TANKS

1.0 TANK MANUFACTURER'S INSTALLATION CHECKLIST SHALL BE INITIALED/SIGNED BY G.C AND OWNER'S ENGINEER, AS APPROPRIATE, AS EACH STEP IS COMPLETED

2.0 THE GENERAL CONTRACTOR SHALL FOLLOW ALL TESTING PROCEDURES OUTLINED IN THE XERXES INSTALLATION MANUAL FOR BRINE-FILLED DOUBLE-WALL TANKS AND PROVIDE DOCUMENTATION TO THE OWNER. ALSO, THE GENERAL CONTRACTOR SHALL MAINTAIN A DAILY LOG OF THE STICK READINGS FORM THE BRINE RESERVOIR.

3.0 N/A, NOT USED

4.0 INSTALLATION

4.1 INSTALLING CONTRACTOR SHALL BE CERTIFIED BY TANK MANUFACTURE.

4.2 BEDDING AND BACKFILL MATERIAL SHALL BE WELL WASHED AND FREE OF ICE AND SNOW AND MUST MEET ASTM D-448, ASTM C-33 AND AASHTO M-43 QUALITY AND SOUNDNESS. G.C. SHALL PROVIDE SIEVE ANALYSIS ACCEPTABLE TO TO OWNER'S ENGINEER. THE FOLLOWING MATERIALS MAY BE USED:

4.2.1 PEA GRAVEL WITH PARTICLE SIZE NOT LESS THAN 1/8" OR MORE THAN 3/4" DIAMETER WITH NO MORE 3% PASSING A NO. 8 SIEVE.

4.2.2 CRUSHED STONE WITH PARTICLE SIZE NOT LESS THAN 1/8" OR MORE THAN 1/2" DIAMETER WITH NO MORE THAN 3% PASSING A NO. 8 SIEVE.

4.3 STANDARD INSTALLATION

4.3.1 ALL TANKS SHALL BE PLACED AT A MINIMUM OF 48 INCHES BELOW FINISHED GRADE OR AS REQUIRED TO ACCOMMODATE PRODUCT PIPING SLOPE REQUIREMENTS, AND SET ON A 12 INCH THICK (MINIMUM) BED OF APPROVED BACKFILL MATERIAL. TANK OPENINGS SHALL BE ALIGNED VERTICALLY WITHIN A PLANE PERPENDICULAR TO THE TANKS LONGITUDINAL AXIS.

4.3.2 SET TANKS LEVEL ON BEDDING MATERIAL. USE ALL LIFTING LUGS PROVIDED AND GUIDE ROPES AT EACH TANK END. (DO NOT SET TANKS DIRECTLY ON DEADMAN IF USED).

4.3.3 PLACE 12" BACKFILL MATERIAL EVENLY AROUND TANKS. USE WOODEN DOWEL PROBE TO WORK BACKFILL COMPLETELY UNDER TANK.

4.3.4 REPEAT D-4.3.3 FOR NEXT 12" PROBING TO FILL ALL VOIDS.

4.3.5 FREELY ADD ADDITIONAL BACKFILL TO TANK TOPS. (ADDITIONAL PROBING NOT REQUIRED).

4.4 ALTERNATE INSTALLATION (NOT ALLOWED).

4.5 WET EXCAVATION CONDITIONS

4.5.1 G.C. SHALL BE RESPONSIBLE TO EVACUATE WATER FROM EXCAVATION. IF CONDITIONS REQUIRE SHORING, CONSULT OWNER'S ENGINEER. METHOD MUST BE APPROVED BY OSHA AND OWNER'S ENGINEER.

4.5.2 MINIMIZE SURFACE WATER ENTERING EXCAVATION BY CONSTRUCTING DIVERSION DAMS AROUND TANK FIELD EXCAVATION AND PIPING TRENCHES.

4.5.3 A CONTINGENCY PLAN SHALL BE DEVELOPED BY G.C. OUTLINING EMERGENCY PROCEDURES FOR OBTAINING THE NECESSARY EQUIPMENT AND/OR PERSONNEL TO HANDLE UNEXPECTED WATER ENTRY INTO THE TANK FIELD EXCAVATION OR PIPING TRENCHES. WHEN WATER MAY CONTAIN HYDROCARBONS CONSULT OWNER'S ENVIRONMENTAL ENGINEER.

4.5.4 INSTALL TANKS PER 4.3

4.6 ANCHORING

4.6.1 TANK ANCHORING, WHERE REQUIRED BY EXISTING GROUNDWATER CONDITIONS, SHALL BE ACCOMPLISHED USING STRAPS AND TURNBUCKLE ASSEMBLIES BY THE TANKS MANUFACTURER AND INSTALLED IN STRICT ACCORDANCE WITH THE TANK MANUFACTURER'S REQUIREMENTS. ALL TURNBUCKLE ASSEMBLY HARDWARE TO BE COATED WITH KOPPERS 300M EPOXY APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

5.0 RISER COATING AND WRAPPING

5.1 PRIOR TO COMPLETION OF BACKFILL AND AFTER PRESSURE TESTING TANK, COAT ALL CORRODIBLE COMPONENTS EXPOSED TO BACKFILL WITH COAL TAR EPOXY AND WRAP WITH FELT OR 3M TAPE. ALL COMPONENTS SHALL BE CLEAN AND CORROSION FREE BEFORE APPLYING COATING. EXTEND COATING 3" ONTO ADJACENT FRP COMPONENTS.

6.0 BALLASTING

6.1 WATER BALLASTING – GC TO BALLAST TANKS

6.1.1 ATTACH ONLY STP RISER AND MANIFOLD HOUSING TO TANK. G.C. SHALL PROTECT AND STORE REMAINING STP COMPONENTS. COVER TOP OF STP MANIFOLD WITH PLYWOOD SECURED THROUGH EXISTING BOLT HOLES.

6.1.2 WATER TO BE PROVIDED BY CONTRACTOR. G.C. TO ASSUME RESPONSIBILITY FOR COMPLETE REMOVAL AND DISPOSAL OF WATER BALLAST AND SCHEDULING GASOLINE DELIVERY PRIOR TO PRODUCT PIPING PURGE, DISPENSER, START-UP, CALIBRATION, ETC.

6.1.3 REMOVE PLYWOOD COVER FROM STP MANIFOLD. COMPLETE STP INSTALLATION ONLY AFTER REMOVING WATER FROM TANK.

7.0 TESTING (AFTER PAVING IS COMPLETE)

7.1 G.C. SHALL CONTACT R.T. OWNERS ENGINEER TO HAVE PRECISION TEST ON PRIMARY TANK AFTER PAVING IS COMPLETE, PRODUCT HAS BEEN PLACED IN TANKS, DISPENSERS HAVE BEEN INSTALLED, AND PRIOR TO FINAL PROJECT ACCEPTANCE.

E. PIPING

1.0 PIPE MANUFACTURER'S INSTALLATION CHECKLIST SHALL BE INITIALED AND SIGNED BY G.C. AND OWNER'S ENGINEER, AS APPROPRIATE, AS EACH STEP IS COMPLETED.

2.0 ALL MATERIAL WORKMANSHIP AND INSTALLATION PRACTICES SHALL BE IN ACCORDANCE WITH NFPA APPLICABLE CODES.

3.0 MATERIALS

3.1 ALL VENT AND VAPOR RETURN SHALL BE AMERON DUALOY 3000/L S/W FRP PIPE.

3.2 PRIMARY PRODUCT AND SECONDARY CONTAINMENT LINES SHALL BE AMERON DUALOY 3000/LCX COAXIAL D/W FRP PIPE.

3.3 TANK RISER SHALL BE SCHEDULE 40 (ASTM A-120) GALVANIZED IRON PIPES. FITTING SHALL BE 300 PSI GALVANIZED MALLEABLE IRON. ALL COUPLINGS AND FITTINGS SHALL BE SHOULDER STYLE. NO STREET COUPLINGS OR FITTING SHALL BE ALLOWED. THE USE OF CLOSE, CONTINUOUSLY THREADED STEEL PIPE NIPPLES SHALL NOT BE PERMITTED.

3.4 ALL THREADED CONNECTIONS SHALL BE TREATED WITH GASOILA E-SEAL OR JOMAR 100 "THE HEAVY WEIGHT." (100% compatible –all fuels)

3.5 G.C. SHALL DEMONSTRATE TO OWNER'S ENGINEER ALL INSTALLED MATERIALS ARE NEW AND CONFORM TO ABOVE SPECIFICATIONS.

4.0 INSTALLATION

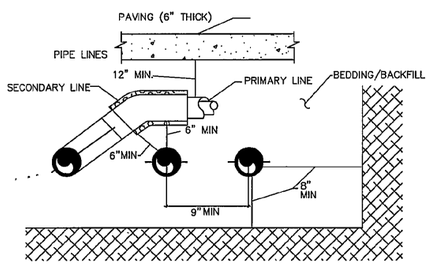
4.1 INSTALLATION CONTRACTOR SHALL BE CERTIFIED BY PIPING MANUFACTURER.

4.2 CORRODIBLE COMPONENTS SHALL BE USED ONLY WHERE SPECIFIED AND IN THE ARRANGEMENT SHOWN IN THESE DRAWINGS.

4.3 BEDDING AND BACKFILL MATERIAL SHALL BE THE SAME AS THE TANK FIELD. SAND SHALL NOT BE USED UNDER ANY CIRCUMSTANCES. PRODUCT LINE TRENCH SUB-GRADE SHALL BE COMPACTED TO 95% PROCTER DENSITY PRIOR TO INSTALLING BEDDING AND BACKFILL MATERIAL.

4.4 PIPING SHALL BE MINIMIZED, NOT PLACED UNDER BUILDINGS AND SHALL BE INSTALLED WITH MINIMUM SPACING AND CLEARANCES SHOWN BELOW. IF PIPING ROUTING IS NOT SPECIFIED, G.C SHALL INSTALL IN THE MOST DIRECT ROUTE, SUBJECT TO APPROVAL BY OWNER'S ENGINEER.

4.5 PRODUCT LINE SHALL SLOPE CONTINUOUSLY UPWARD FROM STP SUMP A MINIMUM OF 1/8" PER FT. STAGE I AND STAGE II VAPOR RECOVERY LINES AND VENT LINES SHALL SLOPE CONTINUOUSLY UPWARD FROM VAPOR MANIFOLD A MINIMUM OF 1/8" PER FT.



5.0 CONNECTIONS:

5.1 THREADED CONNECTIONS

5.1.1 THREADS SHALL BE CLEAN OF ALL SAND AND THREAD CUTTING OIL PRIOR TO JOINING.

5.1.2 APPLY THREAD SEALANT PER E-3.4 START ALL THREADED CONNECTIONS BY HAND. SECURE FRP COMPONENTS USING ONLY A STRAP WRENCH. DO NOT FORCE THREADS. IF CONNECTION BINDS REMOVE AND RECLEAN.

5.1.3 DO NOT OVERTIGHTEN. TORQUE FRP TO STEEL CONNECTIONS TO 75FT. LBS. WHEN USING POWER TONGS.

5.2 FRP BONDED CONNECTIONS:

5.2.1 TAPER ESCORT PIPE ENDS PER PIPE MANUFACTURER'S INSTRUCTIONS. CLEAN BONDING SURFACE USING ONLY PIPE MANUFACTURE'S APPROVED CLEANER. DO NOT ALLOW CLEANER TO COME INTO CONTACT WITH TANK SURFACE OR SUMP SEALING DEVICES.

5.2.2 MIX AND APPLY ADHESIVES PER MANUFACTURE'S INSTRUCTIONS. AVOID SKIN CONTACT WITH CLEANER, ADHESIVES AND HARDENER. DO NOT INHALE FUMES.

5.2.3 JOIN COMPONENTS PER MANUFACTURES INSTRUCTIONS. CURE CONNECTION PER PIPE MANUFACTURER'S SPECIFICATIONS USING FRP PIPE MANUFACTURER APPROVED ELECTRIC HEATING COLLAR OR CHEMICAL HEAT PACK WHEN TEMPERATURE IS BELOW 0F WILL BE BELOW 60F PRIOR TO CURING. HEAT GUNS ARE STRICTLY PROHIBITED.

5.3 FLEX LINE CONNECTIONS:

5.3.1 INSTALL FLEXIBLE LINE CONNECTORS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

5.3.2 IMMEDIATELY AFTER INSTALLING FLEX LINE COUPLING, PLACE CAP OR PLUG ON COUPLINGS TO PREVENT DEBRIS FROM ENTERING LINES.

6.0 LINE TESTING

CAUTION: NITROGEN FROM A GROUNDED SOURCE SHALL BE USED IN LIEU OF AIR FOR TESTING IF LINES HAVE BEEN EXPOSED TO GASOLINE. NOTE: OWNER'S ENGINEER SHALL WITNESS ALL LINE TESTS.

6.1 G.C. SHALL NOTIFY OWNER'S ENGINEER TWO DAYS PRIOR TO TESTING.

CAUTION: CAP FLEX CONNECTOR OR FLEXIBLE LINE AT STP PRIOR TESTING. APPLY & RELEASE PRESSURE SLOWLY.

6.2 PRODUCT LINE SHALL BE TESTED FROM STP TO DISPENSER VALVE.

6.3 VENT/VAPOR SYSTEM SHALL BE TESTED FROM TOP OF VENT, THROUGH MANIFOLD EXTRACTOR BASE AND RISER, STAGE I CONTAINMENT MANHOLES, STAGE II VAPOR LINES TO ISLAND & STAGE II FLEX CONNECTORS AT DISPENSER'S. REPLACE BALL FLOAT CAGES WITH PLUGS AND REPLACE STAGE II VAPOR RECOVERY SPILL CONTAINER DRAIN VALVES WITH PLUGS. CAUTION : ENGINEER ANG G.C. SHALL VERIFY EXTRACTOR PLUG INSTALLED AND CAP IS REMOVED FROM TANK MONITOR RISER PRIOR TO PRESSURE TESTING VENT/VAPOR SYSTEM.

6.4 FRP LINES

6.4.1 SLOWLY PRESSURIZE PRODUCT LINES AND VENT / VAPOR LINES TO 50 PSI. SOAP TEST ENTIRE PIPE SURFACES INCLUDING JOINTS AND FITTINGS. CORRECT ANY LEAKS AND RETEST.

6.4.2 IMMEDIATELY LOWER PRESSURE FROM VAPOR / VENT SYSTEM TO 5 PSI REMOVE EXTRACTOR PLUGS. REDUCE PRIMARY LINE PRESSURE TO 30 PSI. MONITOR DAILY UNTIL ALL PAVING IS COMPLETE.

6.4.3 ASSEMBLE SECONDARY SYSTEM AND PRESSURIZE TO 5 PSI. SOAP TEST ENTIRE PIPE SURFACES INCLUDING JOINTS AND FITTINGS. CORRECT ANY LEAKS AND RETEST. MONITOR DAILY UNTIL ALL PAVING IS COMPLETE.

6.4.4 AFTER TESTING HAS BEEN SATISFACTORILY COMPLETED AND PRIOR TO BACKFILL, ALL EXPOSED GALVANIZED PIPE THREADS, NUTS, WRENCH MARKS AND ANODE CONNECTIONS ARE TO BE COATED WITH COAL TAR & 3M TAPE, EPOXY APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

6.5 RACETRAC SHALL PERFORM PRECISION TEST ON PRODUCT LINES AFTER PAVING IS COMPLETE, PRODUCT HAS BEEN PLACED IN TANKS, DISPENSERS HAVE BEEN INSTALLED, AND LINES HAVE BEEN PURGED PRIOR TO FINAL PROJECT ACCEPTANCE.

DISPENSER:

1.0 DISPENSER SHALL BE SECURELY ATTACHED TO ANCHOR BOLTS WHICH SHALL BE SET IN CONCRETE ISLAND. QUANTITY AND SIZE OF ANCHOR BOLTS SHALL BE AS SPECIFIED IN DISPENSER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

2.0 DISPENSER SHALL BE ACTIVATED ONLY IN PRESENCE OF AN AUTHORIZED DISPENSER REPRESENTATIVE. G.C. HAS SOLE RESPONSIBILITY FOR DAMAGE TO DISPENSER IF THIS INSTRUCTION IS NOT FOLLOWED.

3.0 PURGING AIR:

3.1 ACTIVATE ANY DISPENSER. DO NOT OPEN A NOZZLE. LEAVE DISPENSER ON FOR 5 MINUTES. TURN DISPENSER OFF AND ALLOW TO STAND FOR 5 MINUTES.

3.2 ACTIVATE DISPENSER MOST REMOTE FROM STP AND DISPENSE (150 GALLONS FROM THE FARTHEST TWO DISPENSERS AND 50 GALLONS FROM ALL OTHERS) INTO A GROUNDED CONTAINER APPROVED FOR STORAGE AND HANDLING OF CLASS I FLAMMABLE LIQUIDS. REPEAT FOR EACH HOSE AND DISPENSER. MOVING PROGRESSIVELY CLOSER TO STP. REPLACE PRODUCT USED FOR LINE PURGE INTO RESPECTIVE TANK.

4.0 ELECTRICAL CHECKOUT:

4.1 TURN OFF ALL STP CIRCUIT BREAKERS.

4.2 CONFIRM ALL NOZZLES ARE IN THEIR BOOTS.

4.3 VERIFY ALL STP'S ARE OFF.

4.4 TURN ON CIRCUIT BREAKER FOR ONE STP. ONE HOSE AT A TIME FOR PRODUCT GRADE MATCHING ACTIVATED STP, PERFORM THE FOLLOWING AT EACH DISPENSER:

4.4.1 REMOVE NOZZLE

4.4.2 ACTIVATE OPERATING HANDLE AND DISPENSE PRODUCT INTO AN APPROVED GROUNDED CONTAINER.

4.4.3 VERIFY ONLY CORRECT STP TURNS ON.

4.4.4 VERIFY BRAND PANELS ON EACH SIDE OF DISPENSER MATCHES PRODUCT BEING DISPENSED BY STP.

4.4.5 VERIFY CORRECT NOZZLE TYPE IS INSTALLED. REPEAT F-4.4 FOR EACH PRODUCT GRADE.

5.0 ACTIVATE ALL STP CIRCUIT BREAKERS ONE HOSE AT A TIME. FOLLOW F-4.4.2 AND F-4.4.3 FOR EACH HOSE.

6.0 IF MISCONNECTIONS OR OTHER PROBLEMS ARE DETECTED, MAKE CORRECTIONS AND REPEAT ENTIRE DISPENSER CHECK-OUT PROCEDURE.

NOTE. SUCCESSFUL COMPLETION OF F-4.0 AND F-5.0 WILL CONFIRM COMPLETE INTEGRITY AND CONTINUITY OF DISPENSING ELECTRICAL AND PIPING SYSTEMS.

7.0 DISPENSER CALIBRATION: SUBSEQUENT TO START UP OF NEW DISPENSER BY THE OWNERS AUTHORIZED SERVICE REPRESENTATIVE, THE G.C. SHALL PROVIDE A STATE CERTIFIED 5 GALLON CALIBRATION CAN AND ADJUST CALIBRATION OF EACH DISPENSER HOSE TO ZERO TOLERANCE FOR EACH 5 GALLONS OF PRODUCT DISPENSED, ON BOTH FAST AND SLOW RUNS, OR AS DIRECTED BY LOCAL WEIGHTS AND MEASURES AUTHORITY. PRODUCT USED FOR CALIBRATION OF DISPENSERS SHALL BE RETURNED TO ITS RESPECTIVE STORAGE TANK. REPLACE ALL METER SEALS. FURNISH OWNER WITH CALIBRATION REPORT SHOWING FINAL CALIBRATION TO ZERO TOLERANCE. BEFORE STORE STOCKING.

8.0 INSTALL NEW DISPENSER FILTERS AFTER COMPLETING ALL LIQUID TESTING. ACTIVATE EACH PRODUCT AND EACH DISPENSER AND INSPECT FILTER FOR LEAKS. RECHECK PRIMARY LINE CONNECTIONS AT DISPENSER BASE AND STP FOR LEAKS. CALIBRATION TEST SHALL BE GIVEN TO RACETRAC ENGINEER PRIOR TO STOCKING STORE.

G. MISCELLANEOUS REQUIREMENT.

4.1 SET ALL TANK SLAB MANHOLES AND STREET BOX ELEVATIONS 2" ABOVE FINISHED GRADE. SLOPE (1 5/16 INCH PER FOOT) CONCRETE AWAY FROM RIM TO MEET SLAB GRADE

4.2 PRIOR TO INSTALLATION, CONTRACTOR SHALL SET SUBMERGED TURBINE LENGTH SO THAT MOTOR IS 6" OFF OF TANK BOTTOM.

4.3 UNLESS OTHERWISE INDICATED, ALL CONTROL AND ELECTRICAL WIRING SHALL BE RUN IN 3/4" GALVANIZED CONDUIT IN ACCORDANCE WITH NFPA 70 CLASS 1, GROUP D REQUIREMENT.

4.4 PRODUCT DISPENSERS (MPD'S) TO BE SET AND CONNECTED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. INSTALL HOSES, BREAKAWAYS, SWIVELS AND NOZZLES AND CHECK FOR PROPER OPERATION. REMOVE ALL PACKAGING MATERIALS, TAPE. TAPE RESIDE AND THOROUGHLY CLEAN EACH DISPENSER TO REMOVE DUST. FINGERPRINTS, SMUDGES, ETC.

4.5 PRESSURE LINE LEAK DETECTORS– ALL (NEW AND EXISTING) PRESSURE LINE LEAK DETECTORS SHALL BE CHECKED AND TESTED FOR PROPER OPERATION. LEAK DETECTOR CHECKS AND TEST SHALL BE WITNESSED BY THE OWNERS REPRESENTATIVE.

H. CONCRETE

1.0 CONCRETE SHALL BE IN ACCORDANCE WITH OWNER'S PAVING SPECIFICATIONS AND DETAILS.

I. AS-BUILT DRAWINGS

1.0 G.C. SHALL PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS TO SCALE DEPICTING PRECISE LOCATION OF ALL COMPONENTS INSTALLED (INCLUDING PRODUCT/ VAPOR LINE SIZES AND LOCATIONS, CONDUIT SIZES AND LOCATIONS ETC.) PRIOR TO OWNER'S ENGINEER PROJECT ACCEPTANCE.

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ISSUE/REVISION RECORD
DATE DESCRIPTION

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(770) 431-7600

PROJECT NAME

PEACHTREE PKWY & ENGINEERING DRIVE

PEACHTREE CORNERS
GEORGIA
SWC of PEACHTREE PKWY and ENGINEERING DRIVE

RACETRAC PROJECT NUMBER

1201

PLAN SERIES

2011 BR-RH-M90 0801

PLAN MODIFICATION NOTICE

■ NO MODIFICATIONS APPLIED
■ MODIFICATIONS APPLY

SPB NO. 1080 DATE 02/00/00

STANDARD PLAN BULLETINS (SPB) MODIFY THE PLAN SERIES SET NOTED ABOVE. THE SPB GIVEN ABOVE REPRESENTS THE LATEST MODIFICATION INCORPORATED TO THIS PLAN SERIES SET. CONTACT RACETRAC ENGINEERING AND CONSTRUCTION FOR ALL BULLETINS.

PROFESSIONAL SEAL

GEORGIA REGISTERED No. PE013657 PROFESSIONAL ENGINEER RICHARD R. MORRIS
JAN 19 2006

RICHARD R. MORRIS
GA REG # PE013657

PROJECT NUMBER
18011

SHEET TITLE

TANK AND PIPING NOTES

SHEET NUMBER

RT-T5.0

ISSUED FOR CONSTRUCTION