

PERFORMANCE SPECIFICATION - CONT.

SECTION IV TANK INSTALLATION - CONTINUED

PART 3 - INSTALLATION - CONTINUED

- 3.5 PLUGS: ALL UNUSED PLUGS SHALL BE REMOVED... 3.6 THE PLUGS IN TANK OPENINGS WHICH ARE TO BE USED... 3.7 WET HOLE INSTALLATION: SHOULD GROUND WATER BE PRESENT... 3.7.1 WELL POINT: WATER SHALL BE KEPT AT LOWEST POSSIBLE POINT... 3.7.2 ANCHORS: DEAD MAN AS PER TANK MANUFACTURER'S RECOMMENDATIONS... 3.7.3 TIE DOWNS: SUPPLIED BY TANK MANUFACTURER... 3.7.4 TAKE-UP FIXTURE & TURNBUCKLE: TO REMOVE CABLE SLACK... 3.7.5 STRAP PLACEMENT: AS PER TANK MANUFACTURER'S SPECIFICATIONS... 3.7.6 COATING: COVER ALL NON-GALVANIZED HARDWARE WITH TWO (2) COATS OF ASPHALT IMPREGNATED WITH WATERPROOFING PRIOR TO PLACEMENT OF BACKFILL... 3.8 LIFTING: TANKS SHALL BE LIFTED ONLY AS PER MANUFACTURER'S RECOMMENDATIONS... 3.9 BACK FILL PLACEMENT: ONCE TANKS ARE PROPERLY SET IN PLACE... 3.10 BALLASTING: IF GROUND WATER IS PRESENT, TANKS SHALL BE FILLED WITH BALLAST (WATER) TO AVOID SHIFTING MOVEMENT... 3.11 PROTECTION: CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE PROTECTION FOR TANK EXCAVATION FROM SURFACE WATERS WITH DAMS, BERMS, OR OTHER MEANS PENDING COMPLETION OF INSTALLATION...

SECTION V CONCRETE

PART 1 - GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO CONCRETE.

PART 2 - PRODUCTS

- 2.1 MATERIALS: 2.1.1 AIR ENTRAINING AGENT: ASTM C 260-60-T, "PROTEX" MANUFACTURED BY PROTEX INDUSTRIES OR APPROVED EQUAL... 2.1.2 PORTLAND CEMENT: CONFORM TO ASTM C-150 TYPE I; TYPE II WHERE WATER SOLUBLE SULFATES ARE PRESENT... 2.1.3 AGGREGATES: CONFORM TO ASTM C-33... 2.1.4 WATER: SHALL BE CLEAN AND POTABLE... 2.1.5 SAND: CONFORM TO ASTM C-144... 2.1.6 STEEL REINFORCING: CONFORM TO ASTM A-615, GRADE 60 (EXCEPT WHERE NOTED OTHERWISE) YIELD STRENGTH 60,000 PSI... 2.1.7 ACCESSORIES INCLUDING BAR SUPPORTS, CHAIR SPACES, ETC., SHALL BE COLD DRAWN WIRE... 2.1.8 FORMS: CLEAN, STRAIGHT LUMBER OF MOISTURE RESISTANT HARDWOOD... 2.1.9 EXPANSION JOINT FILLERS: ASPHALT IMPREGNATED FIBERBOARD CONFORMING TO ASTM C-60-T... 2.1.10 CALCIUM CHLORIDE: NOT PERMITTED... 2.2 CONCRETE PROPORTIONS: CONCRETE SUPPLIER SHALL DESIGN CONCRETE MIX AND SHALL GUARANTEE CONCRETE STRENGTH... ALL CONCRETE, UNLESS NOTED OTHERWISE ON DRAWINGS, OR REQUIRED OTHERWISE BY CODES, SHALL BE DESIGNED FOR 4,000 PSI STRENGTH AT 28 DAYS WITH NOT LESS THAN 5 1/2 BAGS OF CEMENT PER CUBIC YARD OF CONCRETE... NOT MORE THAN 6 1/2 GALLONS OF WATER PER BAG OF CEMENT AND NOT MORE THAN A 4" SLUMP... AIR CONTENTS SHALL RANGE BETWEEN 4% AND 7%.

SECTION V CONCRETE - CONTINUED

PART 3 - EXECUTION

- 3.1 GRADE CONTROL: ESTABLISH AND MAINTAIN LINES AND GRADES FOR CONCRETE ITEMS BY MEANS OF LINE AND GRADE STAKES AND SCREEDS... 3.2 FORM WORK: BUILD FORMS TO CONFORM TO SHAPE, LINES AND DIMENSIONS OF CONCRETE MEMBERS... 3.3 REINFORCEMENT: FURNISH AND INSTALL ALL REINFORCING STEEL... 3.4 MIXING AND TRANSPORTING CONCRETE: CONCRETE SHALL BE READY MIXED AND SHALL MEET REQUIREMENTS OF ASTM C-64 FOR MIXING AND DELIVERY... 3.5 PLACING CONCRETE: 3.5.1 NOTIFICATION: THE CONTRACTOR SHALL NOTIFY THE OWNER'S LOCAL CONSTRUCTION OFFICE AT LEAST 48 HOURS BEFORE PLACING ANY CONCRETE... 3.5.2 PROTECTION: PROTECT ALL WORK OF OTHER TRADES AS REQUIRED... 3.5.3 WETTING: THOROUGHLY WET FORMS AND DAMPEN SAND CUSHIONS BEFORE PLACING CONCRETE... 3.5.4 PLACING: PLACE ALL CONCRETE IN ACCORDANCE WITH ACI 614... 3.6 FINISHING CONCRETE: 3.6.1 SLABS SHALL BE A TRUE PLANE SURFACE WITH NO DEVIATION... 3.7 CURING: UTMOST CARE SHALL BE TAKEN TO ACHIEVE A UNIFORM, PROTECTED CURE FOR ALL SLABS... 3.8 REMOVAL OF FORMS: DO NOT REMOVE FORMS UNTIL CONCRETE HAS OBTAINED SUFFICIENT STRENGTH TO SUPPORT ANY SUPERIMPOSED LOADS... 3.9 PATCHING: NO PATCHING SHALL OCCUR UNTIL APPROVED BY OWNER... 3.10 TEMPERATURE: 3.10.1 COLD WEATHER: WHEN MEAN DAILY TEMPERATURE OF THE ATMOSPHERE IS LESS THAN 40 DEGREES FAHRENHEIT... 3.10.2 HOT WEATHER: MAKE ARRANGEMENTS FOR INSTALLATION OF WINDBREAKS, SHADING, FOG SPRAY, SPRINKLING, PONDING OR WET COVERING... 3.11 TESTING: CONCRETE TESTS SHALL BE ORDERED AT THE DISCRETION OF THE OWNER'S CONSTRUCTION MANAGER... 3.12 THICKNESS: 3.12.1 SLAB OVER TANKS SHALL BE 8" CONCRETE SLAB WITH #3 REINFORCING BARS AT 12" OC EACH WAY... 3.12.2 CANOPY SLABS SHALL BE 6" CONCRETE... 3.13 CANOPY FOOTINGS: CANOPY FOOTINGS SHALL BE INSTALLED BY GENERAL GASOLINE CONTRACTOR AS PER SHOP DRAWINGS... 3.14 PROTECTION OF ALL CONCRETE SURFACES: IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROTECT ALL CONCRETE SURFACES AGAINST ANY DAMAGE WHATSOEVER... 3.15 GRADE CONTROL: ESTABLISH AND MAINTAIN LINES AND GRADES FOR CONCRETE ITEMS.

SECTION VI PIPING

PART 1 - GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND RELATED APPLIANCES REQUIRED IN CONJUNCTION WITH OR INCIDENTAL TO A COMPLETE PLUMBING SYSTEM FOR A GAS DISPENSER ISLAND.

PART 2 - PRODUCTS

- 2.1 PRODUCT PIPING: PRODUCT PIPING AND FITTINGS SHALL BE DOUBLE WALL RIGID FIBERGLASS PIPING AS SPECIFIED BY OWNER... 2.2 VENT PIPING: PIPING SHALL BE FIBERGLASS PIPE... 2.3 STAGE II VAPOR RECOVER PIPING: PIPING SHALL BE FIBERGLASS PIPING... 2.5 BACK FILL: ALL MATERIAL SHALL COMPLY WITH SPECIFICATIONS FOR APPROVED MATERIAL AND AS PER MANUFACTURER'S SPECIFICATIONS.

PART 3 - INSTALLATION

- 3.1 ALL PRODUCT FITTINGS AND SPECIALTIES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND STATE AND LOCAL CODES... 3.2 THE DRAWINGS ARE A PROGRAMMATIC AND THE FINAL ARRANGEMENT OF THE WORK SHALL SUIT FIELD CONDITIONS... 3.3 LOCATE, IDENTIFY AND MARK EXISTING UNDERGROUND UTILITIES... 3.4 SHOULD UNCHARTED OR INCORRECTLY CHARTED PIPING OR OTHER UTILITIES BE ENCOUNTERED... 3.5 VERTICAL RISERS FROM TANKS FOR ALL FILL PIPES, VAPOR RECOVERY ADAPTERS AND AUTO GAUGING ADAPTATIONS SHALL BE A 4" DIAMETER PIPE... 3.6 DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED BY THE OWNER... 3.7 CONVEY WATER REMOVED FROM EXCAVATIONS AND RAIN WATER TO COLLECTING OR RUN-OFF AREA... 3.8 ALL PRODUCT, VAPOR RECOVERY AND VENT LINES SHALL SLOPE UP FROM TANKS... 3.9 SUBMERGED PUMP, FILL PIPE, AUTO GAUGING ADAPTERS AND VAPOR RECOVERY ADAPTER SHALL BE LOCATED AT TANK OPENINGS... 3.10 FILL PIPE SHALL HAVE OVER SPILL CONTAINMENT SYSTEM INSTALLED... 3.11 FILL PIPE SHALL BE SUBMERGED FILL TUBE... 3.12 OVERFILL PREVENTION DEVICES SHALL BE INSTALLED... 3.13 REMOTE PUMP SHEAR VALVES SHALL BE INSTALLED... 3.14 AFTER ALL PIPING IS COMPLETE... 3.15 IF SUBMERGED, PUMP RISER IS TO BE LENGTHENED... 3.16 ALL VALVES AND PRODUCT HANDLING EQUIPMENT SHALL BE AS SHOWN ON EQUIPMENT LIST... 3.17 OBSERVATION WELLS WHEN REQUIRED SHALL BE INSTALLED... 3.18 CODES: THE NFPA 30 FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE... 3.19 STARTUP: PRIOR TO STARTUP AND CHECK-OUT OF SYSTEM... 3.20 INSPECTIONS: PLUMBING INSPECTION SHALL BE PERFORMED BY OWNER'S APPOINTED REPRESENTATIVE... 3.21 CLEANUP: CLEANUP ALL DEBRIS CAUSED BY THE WORK OF THIS SECTION...

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