PERFORMANCE SPECIFICATION - CONT.

SECTION IX CANOPIES - CONTINUED

PART 2 - EXECUTION

2.3 FASCIA:

2.3.1 VERTICAL SUPPORTS SHALL BE DESIGNED AND SPACED PER ENGINEERED (DESIGNED TO LOCAL CODES) STRUCTURAL DRAWINGS SUPPLIED BY CANOPY MANUFACTURER. SCREWS FOR FASCIA SHALL BE CARBON STEEL CADMIUM PLATED OR GALVANIZED - SIZE AS REQUIRED.

2.3.2 REFER TO PROJECT DRAWINGS FOR FASCIA MATERIAL AND INSTALLATION.

2.3.3 MATERIAL SHALL BE ONE OF THE FOLLOWING:

A. PRE FINISHED METAL FASCIA SYSTEM.
B. PRE FINISHED FASCIA MATERIAL AS SELECTED.

PART 3 - GENERAL

3.1 FABRICATION DRAWINGS:

3.1.1 CANOPY CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ENGINEERED AND STAMPED SHOP DRAWINGS FOR OVERHEAD STRUCTURE AND FOUNDATION SYSTEMS.

3.1.2 DRAWINGS SHALL SHOW PROJECT LOCATION AND ADDRESS.

3.1.3 ORIGINAL ENGINEER'S STAMP FOR APPROPRIATE STATE SHALL BE AFFIXED TO EACH PAGE OF DRAWINGS.

3.1.4 SHOP DRAWINGS SHALL SPECIFICALLY CALL OUT SOILS REPORT NUMBER AND DATE FOR WHICH CANOPY FOOTINGS WERE DESIGNED.

3.1.5 SHOP DRAWINGS SHALL SPECIFICALLY CALL OUT SIZE, WEIGHT, TYPE AND NUMBER OF ALL STRUCTURAL MEMBERS.

3.1.6 ALL DESIGN LOADS SHALL COMPLY WITH CURRENT BUILDING CODES AND LOCAL BUILDING DEPARTMENT REQUIRED LOADINGS, WHICHEVER IS MOST STRINGENT. MINIMUM DESIGN LOADS SHALL BE CONSIDERED TO BE: WIND 100#, LIVE 35#, UPLIFT 35# AND DEAD LOAD 35# OR AS LOCAL STRUCTURAL DESIGN DICTATES. IF APPLICATION IS SUBJECT TO HIGH ALTITUDE (SNOW) LOADING, DESIGN SHALL BE ADJUSTED TO COMPLY ACCORDINGLY.

3.1.7 DEFLECTION OF ALL STRUCTURAL MEMBERS SHALL BE LIMITED TO SPAN/180 FOR L.L. ONLY.

3.1.8 ATTACH DECK STRUCTURAL SUPPORTS PER ENGINEERED DRAWINGS.

3.1.9 ROOF DECK SHALL BE AN I.C.B.O. APPROVED DIAPHRAGM DECK AND ATTACHED IN A MANNER THAT COULD BE CONSIDERED A DIAPHRAGM. AN ALTERNATE TO THIS IS 1/2" DIAMETER STEEL ROD DIAGONAL X-BRACING WITH TURNBUCKLES. LAYOUT OF ROD BRACING AND CONNECTIONS TO STRUCTURAL MEMBERS SHALL BE APPROVED BY STRUCTURAL ENGINEER.

3.1.10 CONCRETE FOOTINGS SHALL BE MADE WITH STONE AGGREGATE AND SHALL HAVE A COMPRESSIVE STRENGTH TO A MINIMUM 3000 LBS. PER SQUARE INCH WITHIN 28 DAYS AFTER POURING.

3.1.11 ALL FOUNDATION METAL REINFORCEMENT SHALL BE OF FORMED TYPE BARS (EXCEPT #2 BARS) AND SHALL CONFORM TO THE REQUIREMENTS OF THE "STANDARD SPECIFICATION A.S.T.M. 615 GRADE 4 40".

3.1.12 THE SHOP DRAWINGS SHALL EXPLICITLY SHOW LOCATION OF DOWN SPOUTS, INTERIOR PVC DRAINS IN WARM WEATHER AREAS, ETC., AS RELATED TO ANY AND ALL UTILITIES AND/OR PIPING AT COLUMN LOCATIONS. ROOF DRAINS AND LEADERS SHALL BE DIRECTED DOWN THE INTERIOR CANOPY COLUMN EXITING SIDE OF ISLAND LEVEL OR ABOVE FINISH GRADE OF CONCRETE SIDE PAD ON DOWNHILL SIDE OF ISLAND.

3.1.13 INCLUDE IN DESIGN PROVISION FOR OVERFLOW DEVICE AT OPPOSITE CORNERS OF CANOPY.

3.1.14 CONSTRUCTION NOT SPECIFICALLY INDICATED SHALL BE ACCOMPLISHED PER MINIMUM REQUIREMENTS OF THE UNIFORM BUILDING CODE, LATEST EDITION.

3.1.15 IF THERE ARE ANY CONFLICTS BETWEEN LINES ON DRAWINGS AND GENERAL NOTES OR WITH SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS GOVERN.

3.1.16 ANY DEVIATION FROM THE PLANS OR SPECIFICATIONS SHALL BE APPROVED BY OWNER CONSTRUCTION REPRESENTATIVE.

3.1.17 FABRICATION DRAWINGS SHALL BE DELIVERED TO APPLICABLE CONSTRUCTION OFFICE A MINIMUM OF 4 WEEKS PRIOR TO COMMENCEMENT OF CONSTRUCTION. NO WORK SHALL COMMENCE PRIOR TO APPROVAL OF DRAWINGS BY OWNER'S CONSTRUCTION REPRESENTATIVE.

SECTION IX CANOPIES - CONTINUED

PART 3 - GENERAL - CONTINUED

3.2 EXECUTION:

3.2.1 COORDINATE DELIVERY AND INSTALLATION WITH GENERAL GASOLINE INSTALLER THROUGH LOCAL CONSTRUCTION OFFICE. MATERIALS SHALL BE STORED AT POSITION AS INDICATED BY GENERAL GASOLINE INSTALLER.

3.2.2 CANOPY CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FOOTING ANCHOR BOLTS AND TEMPLATE FOR DELIVERY TO GENERAL GASOLINE INSTALLATION CONTRACTOR 2 WEEKS PRIOR TO INSTALLATION. SIZE IN ACCORDANCE WITH SHOP DRAWINGS AND IN ACCORDANCE WITH GASOLINE INSTALLING CONTRACTOR'S SCHEDULE OF CONSTRUCTION.

3.2.3 FOOTINGS FOR CANOPY AND PLACEMENT OF ANCHOR BOLTS SHALL BE PERFORMED BY GENERAL GASOLINE INSTALLER AS PER APPROVED SHOP DRAWINGS. TYPE OF CONCRETE SHALL BE AS PER SHOP DRAWINGS. TYPE, SIZE, AND PLACEMENT OF ALL REINFORCED STEEL SHALL BE AS PER SHOP DRAWINGS.

3.2.4 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK AND NOTIFY OWNER'S CONSTRUCTION MANAGER IMMEDIATELY OF ANY DISCREPANCIES FOUND. REFER TO SITE PLAN FOR SIZE, TYPE AND PLACEMENT OF CANOPY

3.2.5 CANOPY CONTRACTOR SHALL BE RESPONSIBLE FOR BEING PROPERLY LICENSED IN LOCAL INSTALLATION AS WELL AS PROVIDING OWN PERMITS AS MAY BE REQUIRED. A COPY OF THE PERMIT MUST BE ON FILE IN THE LOCAL CONSTRUCTION OFFICE PRIOR TO COMMENCING WORK.

3.2.6 CANOPY CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CONSTRUCTION OFFICE WITH ACCEPTABLE INSURANCE AS REQUIRED PER OWNER. INSURANCE SPECIFICATIONS AND STANDARD CONTRACT FOR CONSTRUCTION. INSURANCE SHALL BE IN EFFECT FOR DURATION OF WORK.

3.2.7 CANOPY CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL WORK OF OTHER CONTRACTORS ALREADY IN PLACE, AS MAY BE REQUIRED.

3.2.8 CANOPY CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND OBTAINING APPROVAL OF GENERAL GASOLINE CONTRACTOR PRIOR TO PLACING OF ANY HEAVY EQUIPMENT ON TOP OF CONCRETE WORK ALREADY IN PLACE.

3.2.9 ALL FOOTINGS SHALL BE ON FIRM UNDISTURBED SOILS OR FILL COMPACTED TO 95% MAXIMUM DENSITY BASED ON A.S.T.M. D 1557-70. IF ANY POOR SOIL CONDITION IS DISCOVERED DURING EXCAVATION, THE DESIGN ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR SOIL BEARING VERIFICATION.

3.2.10 SUPPORTING COLUMNS SHALL BE PLACED AS PER OWNER. GASOLINE PLANS AND AS PER APPLICABLE SITE PLAN.

3.2.11 CANOPY SUPPORT COLUMNS SHALL BE CAPPED AT TOP.

3.2.12 ALL MATERIALS SHALL BE ALIGNED TRUE AND FLAT AND ALL PLANES SHALL BE FLAT, TRUE TO ESTABLISHED LINES WITH ALL SOFFITS BEING LEVEL AND VERTICAL WALLS CORRECT AND ACCEPTABLE. PARAPET FASCIA SHALL BE VERTICAL AND PLUMB. ALL INTERSECTIONS SHALL BE TRUE AND STRAIGHTEDGE LINES. MATERIALS SHALL BE LEFT IN ACCEPTABLE CONDITION TO BE PAINTED BY OTHERS. ALL METAL SHALL BE FREE OF DEBRIS AS MAY BE REQUIRED FOR FINAL PAINTING/FINISHING.

3.2.13 GASOLINE CONTRACTOR SHALL BE RESPONSIBLE FOR NON-SHRINK GROUT BENEATH BASE PLATE AND POURING OF CONCRETE AROUND CANOPY COLUMNS COVERING ANCHOR BOLTS AS MAY BE REQUIRED.

3.2.14 CANOPY CONTRACTOR SHALL LEAVE ALL EXPOSED STRUCTURAL STEEL FREE OF DEBRIS, PRIMED AND READY FOR FINAL PAINTING BY GASOLINE CONTRACTOR.

3.3 RESPONSIBILITIES OF GENERAL GASOLINE CONTRACTOR:

3.3.1 SHALL BE RESPONSIBLE FOR A MINIMUM OF 30 DAY NOTIFICATION OF DATE WHEN SITE WILL BE READY FOR INSTALLATION OF GASOLINE CANOPY.

3.3.2 UPON AGREED DATE BETWEEN GASOLINE CONTRACTOR AND CANOPY CONTRACTOR, THE SITE SHALL BE FREE OF MATERIAL, MOVABLE EQUIPMENT AND DEBRIS, LEVEL AND IN PROPER CONDITION FOR CANOPY INSTALLATION. GENERAL GASOLINE CONTRACTOR SHALL PERFORM SITE WORK AS MAY BE REQUIRED TO COMPLY.

3.3.3 GASOLINE CONTRACTOR SHALL NOT INSTALL GASOLINE DISPENSERS PRIOR TO CANOPY ERECTION, UNLESS AGREED UPON IN WRITING BETWEEN THE CANOPY INSTALLER AND GASOLINE INSTALLER.

3.3.4 GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF CANOPY FOOTINGS AS DESIGNED IN SHOP DRAWINGS PROVIDED BY CANOPY MANUFACTURER, PROVIDING ALL STEEL, ETC., (WITH THE EXCEPTION OF ANCHOR BOLTS TO BE PROVIDED BY CANOPY INSTALLER). FOOTINGS SHALL BE POURED IN A SUFFICIENT AMOUNT OF TIME, SO PROPER CURING TIME IS ALLOWED.

3.3.5 GASOLINE CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING OF ALL METAL AND TRIM AS RELATED TO THE GASOLINE CANOPY AS PER STANDARD COLOR REQUIREMENTS.

3.3.6 GASOLINE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRING AND INSTALLATION OF LIGHTS, SIGNS, SECURITY LIGHTS, ETC., IN CONJUNCTION WITH NORMAL GASOLINE INSTALLATION. G.C. SHALL CAULK SEAL ALL LIGHT FIXTURES TO CANOPY DECK.

3.3.7 GASOLINE CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING BLOCK OUTS AS MAY BY REQUIRED FOR INSTALLATION OF CANOPY IN ACCORDANCE WITH SHOP DRAWINGS. AND PLACEMENT OF ANCHOR BOLTS IN ACCORDANCE WITH SHOP DRAWINGS AS RELATED THERETO.

3.4 WARRANTIES: CANOPY CONTRACTOR SHALL WARRANTY, IN WRITING, COMPLETE CANOPY INSTALLATION FOR A MINIMUM PERIOD OF 2 YEARS. A 5 YEAR WARRANTY GUARANTEEING INSTALLATION TO BE FREE OF DESIGN AND INSTALLATION DEFECTS. EXCLUDING ACTS OF MAN, GOD AND NORMAL WEAR AND TEAR.

3.5 CLEAN-UP: CANOPY CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP AND REMOVAL FROM SITE ALL TRASH AND DEBRIS RESULTING FROM WORK RELATING TO INSTALLATION OF CANOPY.

SECTION X POST CONSTRUCTION TESTING REQUIREMENT

PROCEDURES FOR POST CONSTRUCTION TESTING

1.1 SCOPE OF WORK

THIRD PARTY TESTS ARE REQUIRED TO BE PERFORMED ON ANY POST CONSTRUCTION ACTIVITIES ASSOCIATED WITH NEW INSTALLATION, UPGRADE, REPLACEMENT OR REPAIR OF OR TO THE UNDERGROUND STORAGE TANK (UST) SYSTEMS IF THE WORK INVOLVES PRODUCT PIPING, TANK SUMPS, DISPENSER SUMPS AND PANS OR SPILL CONTAINMENT BUCKETS.

TANKNOLOGY, INC IS CURRENTLY UNDER CONTRACT TO PERFORM ALL REQUIRED TESTS AS THE NATIONAL 3RD PARTY TESTING CONTRACTOR AND MUST BE USED TO PERFORM POST CONSTRUCTION TESTING TO ENSURE THAT OWNER MAINTAINS CONTINUITY WITH THE COMPANY'S REGULATORY COMPLIANCE TESTING PROGRAM. THE ONLY EXCEPTION APPLIES IF LOCAL REGULATIONS REQUIRE THAT THE INSTALLATION CONTRACTOR PERFORM THE REQUIRED TESTS AND THE TESTS ARE WITNESSED ON SITE BY A REGULATORY ENTITY, IN THESE CASES THE INSTALLATION CONTRACTOR MUST SUBMIT DOCUMENTATION OF THE REGULATORY WITNESSED TESTS, AS WELL AS THE RESULTS OF ANY SUCH TEST DIRECTLY TO OWNER, COMPLIANCE DEPARTMENT.

IT WILL NOT BE NECESSARY FOR TANKNOLOGY TO RETEST A COMPONENT WHICH WAS TESTED BY THE CONTRACTOR, IF THAT TEST WAS WITNESSED BY A REGULATOR. IN THESE CASES THE CONTRACTOR MUST SUBMIT RESULTS OF THE TEST, AS WELL AS, COPIES OF REGULATOR INSPECTION REPORT WITHIN 48 HOURS OF COMPLETION OF THE TEST TO THE ADDRESS LISTED BELOW.

THE REQUIRED TESTS ARE DIVIDED INTO TWO CATEGORIES, PRE-FUEL TEST AND POST FUEL TEST.

THE TESTS PERFORMED DURING EACH PHASE ARE LISTED BELOW.

PRE-FUEL TEST - TEST PERFORMED BEFORE FUEL IS INTRODUCED OR DELIVERED INTO THE UST SYSTEM.

THE FOLLOWING TESTS ARE RECOMMENDED TO BE PERFORMED BEFORE FUEL IS INTRODUCED INTO THE UST SYSTEM:

PRE-FUEL TEST	ESTIMATED TEST DURATION
STP SUMPS	MINIMUM 4 HOURS
DISPENSER SUMPS/CONTAINMENT	MINIMUM 4 HOURS
SPILL CONTAINMENT BUCKETS	MINIMUM 1 HOUR

TANKNOLOGY MAY USE ONE OF THE FOLLOWING TEST METHODS: HYDROSTATIC, PRESSURE OR VACUUM.

WATER USED TO PERFORM THESE PRE-FUEL TESTS MAY BE DISCHARGED ON SITE AS LONG AS THE WATER WAS NOT IN CONTACT WITH ANY FUEL.

CONTRACTOR PREPARATION FOR PRE-FUEL (BEFORE DELIVERY) TESTING

- THE TANKS, PIPING AND DISPENSERS MUST BE ACCESSIBLE TO INCLUDE ASPHALT AND CONCRETE THAT CAN BE DRIVEN UPON.
- 110 VOLT AC CURRENT MUST BE AVAILABLE
- ALL PRODUCT PIPING, TANK SUMP, SPILL BUCKET AND DISPENSER SUMP/LINER WORK MUST BE COMPLETE AND COMPONENTS ACCESSIBLE.
- TEST VALVES MUST BE INSTALLED FOR THE SECONDARY PRODUCT PIPING.
- DISPENSERS DO NOT NEED TO BE IN PLACE AND PRODUCT PIPING DOES NOT NEED TO BE PURGED.
- AS AN OPTION TO SIGNIFICANTLY REDUCE TIME ON SITE, THE CONTRACTOR SHOULD FLOOD ALL TANK SUMPS AND DISPENSER SUMPS WITH CLEAN WATER THE NIGHT BEFORE THE SCHEDULED TESTING. WATER MUST BE ADDED TO A MINIMUM OF 3 INCHES ABOVE THE HIGHEST PENETRATION OR SEAM IN THE SUMP OR PAN.
- THE CONTRACTOR SHOULD ALLOW SEVERAL HOURS TO ALLOW THE WATER LEVEL TO STABILIZE AND MARK THE LEVEL OF THE WATER WITH A PERMANENT MARKER.

POST FUEL TEST - TEST PERFORMED AFTER FUEL IS INTRODUCED OR DELIVERED INTO THE UST SYSTEM.

POST-FUEL TEST	ESTIMATED TEST DURATION
TANK INTERSTICE	MINIMUM 1 HOUR PER TANK
TANK PRIMARY (TIGHTNESS)	MINIMUM 2 1/2 HOURS
LINE/PIPE INTERSTICE	MINIMUM 1 HOUR PER LINE/PIPE
LINE PRIMARY (TIGHTNESS)	COMPLETED DURING TANK TEST
LINE LEAK DETECTOR	COMPLETED DURING TANK TEST
STAGE II (WHERE APPLICABLE)	MINIMUM 3 HOURS
*AUTOMATIC TANK GAUGE (ATG) CERTIFICATION	MINIMUM 2 HOURS
OTHER (AS REQUIRED BY STATE OR LOCAL ORDINANCE	UNKNOWN

*DOES NOT INCLUDE NEW AUTOMATIC TANK GAUGE (ATG) INSTALLATION. CERTIFICATION OF NEW ATG IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR.

NOTE: WATER USED TO PERFORM TESTING OF (STP) SUMPS, DISPENSER SUMPS AND/OR SPILL BUCKETS, AFTER FUEL IS INTRODUCED/DELIVERED INTO THE UST SYSTEM CANNOT BE DISCHARGED ON SITE.

WATER THAT IS OR WAS IN CONTACT WITH FUEL MUST BE PROPERLY DISCHARGED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND/OR LOCAL REGULATIONS.

CONTRACTOR PREPARATION FOR POST-FUEL (AFTER DELIVERY) TESTING

- THE FUEL LEVEL MUST BE BETWEEN 70-80 PERCENT OF TANK CAPACITY
- COMPARTMENTALIZED TANKS MUST HAVE FUEL LEVELS WITHIN 10" OF EACH OTHER.

IN STAGE II VAPOR RECOVERY AREAS THE FOLLOWING CONDITIONS MUST APPLY.

- ALL PRODUCT PIPING MUST BE THOROUGHLY PURGED OF AIR AND VAPORS.
- THE DISPENSERS MUST BE SET AND OPERATIONAL TO INCLUDE ALL VAPOR VACUUM PUMPS AND OTHER STAGE II EQUIPMENT FULLY FUNCTIONAL.
- ALL HANGING HARDWARE MUST BE INSTALLED AND OPERATIONAL
- THE TANKS, PIPING AND DISPENSERS MUST BE ACCESSIBLE TO INCLUDE ASPHALT AND CONCRETE THAT CAN BE DRIVEN UPON.
-110 VOLT AC CURRENT MUST BE AVAILABLE
- TEST VALVES MUST BE INSTALLED FOR THE SECONDARY PRODUCT PIPING.

CONTRACTOR NOTIFICATION TO TESTING COMPANY (TANKNOLOGY):

IT IS RECOMMENDED THAT THE CONTRACTOR PROVIDE NOTIFICATION TO TANKNOLOGY OF THE NEED TO PERFORM TESTS AT LEASE 14 DAYS PRIOR TO THE ANTICIPATION TEST DATE. HOWEVER, TO ENSURE TESTS ARE CONDUCTED IN A TIMELY MANNER A MINIMUM OF FIVE (5) DAYS IS REQUIRED. TANKNOLOGY UNDERSTANDS THAT ACTUAL DATE MAY CHANGE, BY PROVIDING THEM WITH AS MUCH TIME AS POSSIBLE ALLOWING THEM TO MAINTAIN A TIME SLOT IN THEIR SCHEDULE TO SHIFT AS NECESSARY. THE CONTRACTOR MUST KEEP TANKNOLOGY APPRISED OF THE ANTICIPATED DATE AND TIME THAT THE TESTING WILL BE NEEDED AS PROJECTED DATES CHANGE.

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