People and Internal Operations Department
3501 NW 46th Street, 2nd floor
Miami, Florida 33142
miamidade.gov

June 13, 2025

RESPONSE LETTER NO. 1 TO REQUEST FOR INFORMATION

Project Title: **Diesel Exhaust Fuel (DEF) System Installation**
Project No.: **ID-0000000785**

Email from Mr. Saide Rangel, from SCR Mechanical; on June 5, 2025, at 12:33 PM (Email Attached).

QUESTION No.1: **Please provide Technical Specifications for the DEF piping to be installed.**

ANSWER No.1: Refer to Article 2.06 of the Technical Specification issued under Addendum No.1.

QUESTION No.2: **Please provide detailed piping route for the proposed new system.**

ANSWER No.2: Refer to Article 2.06 of the Technical Specification issued under Addendum No.1. All pipes to be above ground. Detailed pipe route to be proposed by the contractor.

QUESTION No.3: **Please provide technical Specifications for the DEF Tank.**

ANSWER No.3: There should be 4 double wall tanks with 750 gallons capacity each**.** Refer to Article 2.02 of the Technical Specification issued under Addendum No.1.

QUESTION No.4: **Please provide detailed instrumentation required for the DEF piping and storage system.**

ANSWER No.4: Refer to Article 2.03 of the Technical Specification, issued under Addendum No.1.

Email from Mr. Saide Rangel, from SCR Mechanical; on June 6 2025, at 1:06 PM (Email Attached).

QUESTION No.1: **Please provide detailed plans for this project.**

ANSWER No.1: The County does not have detail plans, please refer to attached construction permit drawing dated September 2000 under addendum No. 1

QUESTION No.2: **Do Prevailing Wages apply for this project? If yes, does Building or Heavy wages apply?.**

ANSWER No.2: No. Prevailing wages do not apply to this project

Email from Mr. Ricardo Montijo, from RicMon Group, LLC; on June 9, 2025, at 12:50 PM (Email Attached).

QUESTION No.1: **Please provide the existing electrical system as-built and panel schedule for the fuel pump system, fuel System as-built, site plan as-built for the gas station.**

ANSWER No.1: The County does not have detail plans, please refer to attached construction permit drawing dated September 2000 under addendum No. 1.

QUESTION No.2: **Does this project have working hours restrictions.**

ANSWER No.2: Hours of operations are from Monday to Friday 6:00 AM to 7:00 PM. Please coordinate with the facility supervisor and Mr. Scott Stephens the schedule before commencing the Work.

Call 14 day in advance, in the event the contractor needs to work on weekend or holidays.

QUESTION No.3: **Please indicate the amount of dispenser/ hoses required.**

ANSWER No.3: County is requesting 4 dispensers. Refer to Article 2.03 of the Technical Specifications.

QUESTION No.4: **Does the County have any equipment preference?.**

ANSWER No.4: No, the County does not have preference for any brand.

QUESTION No.5: **Please provide the tank capacity that County would like to have**

ANSWER No.5: Please refer to answer to question No. 3 from SCR Mechanical; dated June 5, 2025, above.

QUESTION No.6: **Will EJ Wall pedestal have control relays for the activation of the DEF pump?**

ANSWER No.6: Yes, EJ Ward does have the ability to use control relays for pump activation.

QUESTION No.7: **We would like to know the amount of tank required and their capacity**

ANSWER No.7: Please refer to answer to question No. 3 from SCR Mechanical; dated June 5, 2025, above.

QUESTION No.8: **Are new bollards are going required or new ones are required ? Which size?**

ANSWER No.8: Yes, new bollards will be required to match existing, Article 2.05 of the Technical Specification issued under Addendum No.1.

QUESTION No.9: **Can you extend the bid due date?**

ANSWER No.9: Yes, bid due date has been extended to July 2, via addendum No.1.

QUESTION No.10: **Where's required to deliver the bid package?**

ANSWER No.10: Bid package to be delivered to the office of the Clerk of the Board located at 111 NW 1st Street, Miami Florida 33128, 17th Floor, before 2:00 PM. Late bids will not be accepted. A clarification has been issued under Addendum No. 1. Bids submitted via e-mail will be rejected.

END OF REQUEST FOR INFORMATION No. 1

Sincerely,

Alfredo E. Munoz, P.E.
Program Management Manager, Fleet Management Division
Internal Services Department (ISD)

AM:fp
cc:

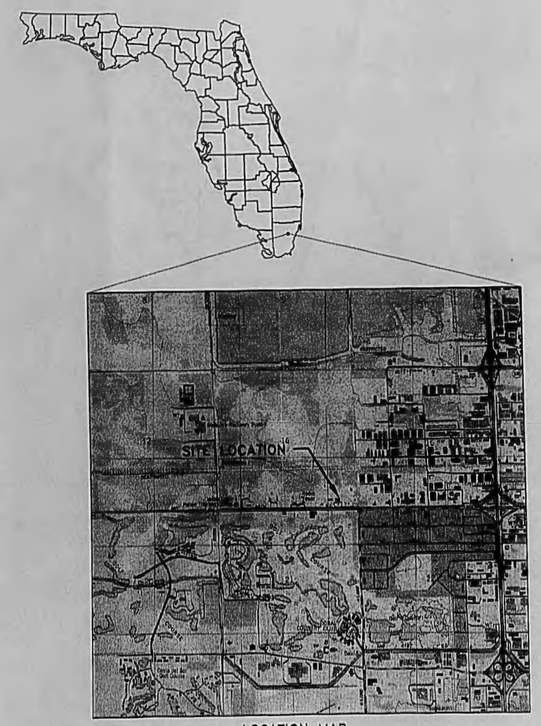
Frances Perez-Texidor, ISD	Caesar Suarez, SBD
Scott Stephens, PIOD	Pete Moolah, PIOD
Laurie Johnson, ISD	Yliana Serra, PIOD
Project File	Clerk of the Board

CONSTRUCTION DRAWINGS

ABOVEGROUND STORAGE TANK REMOVAL / INSTALLATION

SEPTEMBER 1999

WORK ORDER No. 03-9050



LOCATION MAP

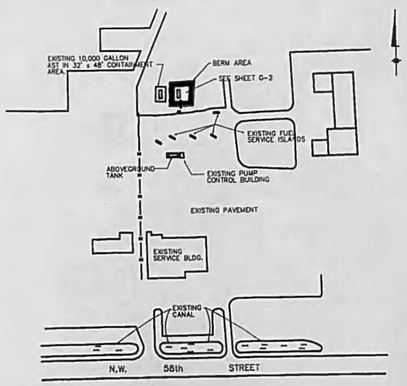
8801\8001\dbl\9050.DWG

MIAMI-DADE GSA FLEET MANAGEMENT
58th STREET LANDFILL FUELING FACILITY
G.S.A. SHOP 3
8801 N.W. 58th STREET
MIAMI, FL. 33166

PREPARED FOR:

GENERAL SERVICES ADMINISTRATION (G.S.A.)
FLEET MANAGEMENT DIVISION
111 N.W. 1st STREET
SUITE 2530
MIAMI, FL. 33128

BBL
ENVIRONMENTAL SERVICES, INC.
Remedial Action•Management and Construction



SITE MAP

NOT TO SCALE

INDEX TO DRAWINGS

--	COVER SHEET
G-1	GENERAL NOTES & SCOPE OF WORK
G-2	EXISTING SITE PLAN
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MIAMI-DADE COUNTY DERM
POLLUTION CONTROL DIVISION
POLLUTION REMEDIATION SECTION
DISAPPROVED: _____ DATE: 9/14/99

6

GENERAL NOTES

1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. HE SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE THE NECESSARY PROTECTION TO PREVENT DAMAGE, INJURY, OR LOSS TO ALL EMPLOYEES ON THE WORK SITE AND ANY OTHER PERSONS WHO MAY BE AFFECTED THEREBY.

2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS, AND ORDERS OF PUBLIC BODIES HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR TO PROTECT THEM FROM DAMAGE, INJURY, OR LOSS; INCLUDING, WITHOUT LIMITATION, THE DEPARTMENT OF LABOR SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION PROMULGATED UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (PL 91-596) AND UNDER SECTION 107 OF THE CONTRACT WORK HOURS AND SAFETY STANDARDS ACT (PL 91-54) AND AMENDMENTS THERE TO. HE SHALL ERECT AND MAINTAIN AS REQUIRED BY THE CONDITIONS AND THE PROGRESS OF THE WORK, ALL NECESSARY SAFEGUARDS FOR EMPLOYEE SAFETY AND PROTECTION AND SHALL COMPLY WITH ALL APPLICABLE RECOMMENDATIONS OF THE MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION OF THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA.

3. CONTRACTORS SHALL FURNISH AND PLACE PROPER GUARDS FOR PREVENTION OF ACCIDENTS, PROVIDE ALL TRENCH SHORING, SCAFFOLDING, SHIELDING, DUST/FUME PROTECTION, MECHANICAL/ELECTRICAL PROTECTION, SPECIAL GROUNDING, SAFETY RAILINGS, BARRIERS, OR OTHER SAFETY FEATURES REQUIRED TO SECURE SAFETY OF LIFE OR PROPERTY.

4. THE CONTRACTOR SHALL BE AWARE THAT CERTAIN SOILS AND GROUNDWATER SUBJECT TO THIS CONTRACT MAY CONTAIN GASOLINE AND DIESEL FUEL CONSTITUENTS (BTEX) AND MAY CONTAIN OTHER CHEMICAL CONSTITUENTS. MATERIALS EXCAVATED AND REQUIRING OFF-SITE DISPOSAL SHALL BE TESTED AND HANDLED IN ACCORDANCE WITH THE LATEST EDITION OF CHAPTER 62-761, 62-770, AND 62-777 FLORIDA ADMINISTRATIVE CODE (FAC). IF ENCOUNTERED, FREE FLOATING PRODUCT SHALL BE REMOVED BY THE DESIGNATED GSA LIQUID WASTE DISPOSAL CONTRACTOR, CLIFF BERRY, AND COORDINATED BY THE CONTRACTOR. TANK CLOSURE SHALL BE IN ACCORDANCE WITH MIAMI-DADE COUNTY DEPARTMENT OF ENVIRONMENTAL RESOURCES MANAGEMENT (DERM) AND FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) STORAGE TANK SYSTEM CLOSURE ASSESSMENT REQUIREMENTS.

5. THE TEMPORARY DIESEL FUEL DISPENSING AREA MUST BE MAINTAINED DURING CONSTRUCTION ACTIVITIES. ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE RESPONSIBLE MIAMI-DADE FLEET MANAGEMENT / DERM REPRESENTATIVE PRIOR TO COMMENCING ON-SITE ACTIVITIES.

6. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL APPLICABLE LOCAL, STATE AND FEDERAL PERMITS AND TO MAKE ARRANGEMENTS FOR LOCAL INSPECTIONS.

7. THE WORK SHALL BE SUBJECT TO INSPECTION BY THE LOCAL AUTHORITIES HAVING JURISDICTION, AND ALL WORK SHALL PASS SUCH INSPECTION.

8. INSTALL EQUIPMENT IN A NEAT AND WORKMANLIKE MANNER; ALIGN, LEVEL AND ADJUST FOR SATISFACTORY OPERATION; INSTALL SO THAT PARTS ARE EASILY ACCESSIBLE FOR INSPECTION, OPERATION, MAINTENANCE AND REPAIR. DEVIATIONS FROM INDICATED ARRANGEMENTS ARE SUBJECT TO REVIEW AND APPROVAL FROM THE ENGINEER PRIOR TO INSTALLATION.

9. IN THE AREAS WHERE EXPLOSION-PROOF WORK IS REQUIRED OR SPECIFIED, ALL WORK SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE (NEC) FOR CLASS 1 DIVISION 1 OR CLASS 1 DIVISION 2 LOCATIONS AS REQUIRED BY NFPA-30, FLAMMABLE LIQUIDS CODE. ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE MOUNTED A MINIMUM OF 18" ABOVE GRADE OR SLAB.

10. WATER IS ACCESSIBLE THROUGH A FIRE HYDRANT LOCATED APPROXIMATELY 250 FEET EAST OF THE SITE. IF WATER IS REQUIRED, CONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATING HYDRANT ACCESS WITH THE MIAMI-DADE WATER AND SEWER DEPARTMENT.

SCOPE OF WORK

1. EXISTING 10,000 GALLON ABOVEGROUND STORAGE TANK (TANK "C") MUST REMAIN FULLY OPERATIONAL DURING ALL CONSTRUCTION ACTIVITIES.

2. OBTAIN ALL NECESSARY AND APPLICABLE PERMITS REQUIRED TO PERFORM THE SCOPE OF WORK, AND OPERATIONAL PERMITS REQUIRED FOR FUEL STORAGE AND DISPENSING FACILITIES.

3. CALL UTILITY CLEARANCE (SUNSHINE STATE ONE) AT LEAST 72 HOURS PRIOR TO INITIATING EXCAVATION ACTIVITIES.

4. ALL MAJOR AND SALVAGEABLE REMOVED EQUIPMENT (FUEL DISPENSERS, PROBES, ETC.) TO BE STORED ON SITE FOR FUTURE USE BY GSA.

5. REMOVE AND PROPERLY DISPOSE ALL CONTENTS FROM ONE (1) 10,000 GALLON ABOVEGROUND STEEL TANK (TANK "A").

6. REMOVE AND DISPOSE OF ONE (1) 10,000 GALLON ABOVEGROUND STEEL TANK (TANK "A") AND ALL ASSOCIATED PIPING, PIPING SUPPORTS, TANK ACCESSORIES, ELECTRICAL CONDUITS, REMOTE FILL WITH ASSOCIATED HOUSING, AND DIESEL DISPENSERS FROM FUELING ISLANDS 1 THROUGH 4. MOVE ONE (1) 10,000 GALLON ABOVEGROUND STEEL TANK (TANK "B") TO THE TANK "A" CONCRETE CRADLES. TANK "B" WILL BE INCORPORATED INTO THE FUELING SYSTEM. PRIOR TO TRANSFER OF TANK "B", CONTRACTOR SHALL VERIFY TANK "A" CRADLES CAN ACCEPT TANK "B" AND/OR MODIFY CRADLES AS REQUIRED.

1 7. INSTALL NEW ABOVEGROUND 3" STEEL DRAIN PIPING, INCLUDING 3" OPW 110 SPRING LOADED VALVE, AND CONNECT TO EXISTING UNDERGROUND DRAIN PIPING FOR EXISTING TANK "B" SECONDARY CONTAINMENT SLAB. PROPERLY SEAL PIPING PASSING THROUGH SECONDARY CONTAINMENT SLAB WITH WATER/FUEL RESISTANT SEALANT. INSPECT EXISTING SECONDARY CONTAINMENT SLAB AND RESEAL ANY DAMAGED AREAS AS REQUIRED. PROPERLY ABANDON EXISTING FLOOR DRAIN AND DISCONNECT EXISTING PIPING AT PONT OF NEW CONNECTION TO NEW ABOVEGROUND PIPING. ENTIRE SECONDARY CONTAINMENT SLAB MUST BE "LEAK PROOF". AJ 5/

8. PROPERLY ABANDON IN PLACE ALL UNDERGROUND PIPING. FLUSH AND CAP PIPING IN ACCORDANCE WITH CHAPTER 62-761, FAC AND CHAPTER 24 OF THE MIAMI-DADE COUNTY CODE. REMOVE AND DISPOSE OF EXISTING TRANSFER PUMPS, CONCRETE CRADLES, ASSOCIATED PIPING, AND ELECTRICAL CONDUITS AT FORMER TANK "B" LOCATION. AJ #54637 10/6/99

9. PROVIDE PROFESSIONAL SERVICES TO PERFORM TANK CLOSURE ASSESSMENT AND SUBMIT CLOSURE ASSESSMENT REPORT TO DERM IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS (INCLUDING CHAPTER 24 OF THE MIAMI-DADE COUNTY CODE AND CHAPTER 62-761, FAC), THE MOST STRINGENT OF WHICH SHALL APPLY.

10. CUT, FILL, AND COMPACT AS REQUIRED TO ATTAIN A MINIMUM COMPACTION OF 95% MAXIMUM DENSITY AND TO OBTAIN THE REQUIRED GRADES AND ELEVATIONS FOR PLACEMENT OF THREE (3) NEW REINFORCED CONCRETE SLABS. ALL ELEVATIONS NOTED IN THE PLANS WILL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND MODIFIED, IF REQUIRED, WITH THE APPROVAL OF THE ENGINEER. REMOVE UNSUITABLE SOILS WHEN ENCOUNTERED, ENSURING COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS GOVERNING THEIR REMOVAL AND DISPOSAL.

11. FORM, PLACE AND FINISH NEW REINFORCED CONCRETE SLAB 1 DIRECTLY EAST AND ADJACENT TO EXISTING TANK "A" CRADLE AND SECONDARY CONTAINMENT SLAB. POUR 42'-8" X 40' X 12" THICK NEW CONCRETE SLAB 1 USING 4,000 PSI CONCRETE WITH #5 REBAR EACH WAY AT 12 INCH CENTERS.

12. SET TWO (2) NEW 12,000 GALLON ABOVEGROUND DIESEL TANKS "D" AND "E" AS SPECIFIED. TANKS TO BE PROVIDED BY GSA. FURNISH AND INSTALL TWO (2) NEW 1.5 HORSEPOWER RED JACKET SUBMERGED TURBINE PUMPS (STPs). ONE EACH FOR TANKS "D" AND "E".

13. FURNISH AND INSTALL SIMPLEX FUEL SYSTEM FILL PORT CABINET ADJACENT TO TANK "B" LOCATION. FURNISH AND INSTALL SIMPLEX SST-25 DAY TANK IN ELECTRICAL BUILDING.

14. FURNISH NEW 1.5 HORSEPOWER RED JACKET STP AND COVERED STAINLESS STEEL CONTAINMENT BOX. INSTALL STP WITHIN CONTAINMENT BOX ON TANK "B".

15. FURNISH AND INSTALL A PUMP MEASURE CONTROL DESIGN AUTO-SEQUENCING SYSTEM TO ALTERNATE DIESEL FUEL TANK DISPENSING ACTIVITIES. SEQUENCER WILL ALTERNATE PUMPS AND ACTIVATE AN ADDITIONAL PUMP FOR EACH DISPENSER ACTIVATED AT THE SAME TIME.

16. INSTALL NEW TOTAL CONTAINMENT DS 4221 (42" X 21" X 37") HDPE SUMP WITH CONTAINED SYSTEMS STEEL TRANSITION LID (42" X 21") AS SPECIFIED.

17. INSTALL NEW PRODUCT PIPING, VAPOR RECOVERY PIPING, VEEDER ROOT CONDUIT, ELECTRICAL CONDUIT, AND SENSOR AND TANK GAUGE CONDUIT AS SPECIFIED FROM THE TANK "B", "C", "D", AND "E" LOCATIONS TO THE NEW PIPING TRANSITION SUMP AS SPECIFIED. ALL ABOVEGROUND PRODUCT PIPING SHALL BE BLACK STEEL PRIMARY PIPING WITH FIBERGLASS SECONDARY PIPING. ALL ABOVEGROUND SECONDARY PIPING SHALL BE PAINTED WITH ULTRAVIOLET LIGHT RESISTANT PAINT. AJ #54637 10/6/99

18. INSTALL CANOPY STORMWATER DRAINAGE SYSTEM, INCLUDING 14' x 16' STORMWATER
2 RETENTION POND, PRECAST CONCRETE OUTFALL, AND PVC PIPING.

19. PLACE FIFTEEN (15) NEW CONCRETE JERSEY CURB BARRIERS AT SPECIFIED LOCATIONS ON THE SOUTH SIDE OF NEW TANK FARM.

20. INSTALL ABOVEGROUND GROUNDING GRID IN THE VICINITY OF NEW CONCRETE SLAB 1. CONNECT TO NEW EQUIPMENT AS REQUIRED.

21. EXCAVATE TRENCHES FOR PLACEMENT OF ELECTRICAL CONDUIT, TELEPHONE, SENSOR AND TANK LEVEL GAUGE CONDUIT, AND PRODUCT AND VAPOR RECOVERY PIPING AS SPECIFIED. MAIN ELECTRICAL AND TELEPHONE FEED TO EXTEND FROM MAINTENANCE BUILDING TO NEW ELECTRICAL BUILDING ALONG EXISTING FENCE LINE

22. FORM TWO (2) NEW FUEL DISPENSING ISLANDS 75' LONG X 4' WIDE X 4" HIGH IN THE POSITIONS SPECIFIED. FURNISH AND INSTALL FOUR (4) GASBOY (MODEL 9153AXTW-) DUAL HOSE DIESEL DISPENSERS AND TWO (2) GASBOY (MODEL 9153AXTW-1) DUAL HOSE UNLEADED GASOLINE DISPENSERS. DIESEL DISPENSERS TO HAVE ALTERNATING DISPLAY COVERS ON BOTH SIDES, TO COINCIDE WITH GROUND LOOP OPERATION. ALL DISPENSERS TO BE EQUIPPED WITH STAINLESS STEEL CABINETS, SECONDARY CONTAINMENT SUMPS, HOSES, FUEL FILTERS, BREAK AWAY CONNECTIONS, PEMCO 360 HOSE RETRIEVERS WITH 2" PIPE (DIESEL ONLY), AND NOZZLES. THE UNLEADED DISPENSERS MUST BE EQUIPPED WITH STAGE II VAPOR RECOVERY PIPING AND EQUIPMENT.

23. INSTALL NEW PRODUCT PIPING, VAPOR RECOVERY PIPING, AND ELECTRICAL CONDUIT AS SPECIFIED FROM NEW PIPING TRANSITION SUMP TO FUEL DISPENSING ISLANDS 1 AND 2 AS SPECIFIED. ALL UNDERGROUND PRODUCT PIPING SHALL BE DOUBLE WALL FIBERGLASS PIPING WITH COMPATIBLE CONNECTORS. AJ 5/

24. FURNISH AND INSTALL 6" STEEL BOLLARDS FILLED WITH CONCRETE TO SURROUND NEW FUEL ISLANDS AND PROTECT EQUIPMENT AND COLUMNS AS SPECIFIED.

25. INSTALL CANOPY COLUMN FOOTERS WITHIN FUEL DISPENSING ISLANDS 1 AND 2 TYPICAL OF EIGHT. CANOPY (91' X 28' X 16' HIGH) TO BE INSTALLED BY ORANGEGATE INDUSTRIES (OSI) UNDER SEPARATE PERMITS. CANOPY INSTALLATION TO BE COORDINATED BY CONTRACTOR. CANOPY GUTTERS TO BE DIRECTED AS SHOWN ON CANOPY DRAWINGS.

26. FURNISH AND INSTALL 320W, 240 V METAL HALIDE LIGHTS WITH TWENTY (20) UNDER THE CANOPY AND TWO (2) ON NORTH SIDE OF CANOPY FACING TANK FARM AND THREE (3) ON SOUTH SIDE FACING MAINTENANCE SHOP. LIGHTS UNDER THE CANOPY SHALL BE PROVIDED BY CANOPY MANUFACTURER.

27. FORM, PLACE AND FINISH NEW REINFORCED CONCRETE SLAB 2 (TANKER SLAB) BETWEEN TANK FARM AND DISPENSER ISLANDS. POUR 95' X 15'-6" X 10" THICK NEW CONCRETE SLAB 2 USING 4,000 PSI CONCRETE WITH WWF 4x4 – W4xW4. POUR 120' X 4" X 4" CONCRETE CURB DIRECTLY SOUTH OF NEW CONCRETE SLAB 2.

28. FORM, PLACE AND FINISH NEW CONCRETE SLAB 3 DIRECTLY SOUTH AND ADJACENT TO NEW CONCRETE SLAB 2. POUR 85' X 72' X 9" THICK NEW CONCRETE SLAB 3 AROUND FORMED FUEL DISPENSING ISLANDS 1 AND 2 USING 4,000 PSI CONCRETE WITH WWF 6 – W4xW4. SLAB 3 TO INCLUDE 2" HIGH BY 2' WIDE CONCRETE BERMS AS SHOWN ON PLANS. PLACE TWO – 2" HIGH BY 18" WIDE ASPHALT SPEED BUMPS ON BOTH SIDES OF FUEL ISLAND.

29. SAW CUT NEW CONCRETE SLAB 3 AND INSTALL JOINTS AT SPECIFIED LOCATIONS. FURNISH AND INSTALL GROUND LOOPS FOR EJ WARD SYSTEM ON BOTH SIDES OF EACH DIESEL DISPENSER LOCATION. GROUND LOOPS TO BE CENTERED ON WEST NOZZLE FOR NORTH SIDE OF DISPENSER AND EAST NOZZLE FOR SOUTH SIDE OF DISPENSER OR VICE VERSA.

30. RESURFACE GRADED AREAS ADJACENT TO CONCRETE SLABS 2 AND 3 AT TO PROVIDE A SMOOTH TRANSITION FOR TRAFFIC TO AND FROM THESE AREAS AND TO MAINTAIN PROPER DRAINAGE.

31. PAINT TRAFFIC YELLOW STRIPING ABOVE EACH INSTALLED GROUND LOOP, ALONG THE 4" CURB SEPARATING CONCRETE SLAB 2 AND 3, ALONG EACH SPEED BUMP, AND CONCRETE BERM, AND AT BASE OF FUEL DISPENSING ISLANDS 1 AND 2.

32. CONSTRUCT NEW 14' X 16' CONCRETE BLOCK ELECTRICAL BUILDING TO HOUSE NEW EMERGENCY GENERATOR, VEEDER ROOT SYSTEM, AND ELECTRICAL CONTROL PANELS

33. INSTALL AND CONNECT A SINGLE PHASE, 240V MAIN ELECTRICAL FEED AND THREE (3) TELEPHONE LINES VIA TRENCHING FROM THE EXISTING MAINTENANCE SHOP TO THE NEW ELECTRICAL BUILDING. ONE (1) TELEPHONE LINE TO REMAIN ACCESSIBLE INSIDE THE ELECTRICAL BUILDING AND TWO (2) TELEPHONE LINES TO TERMINATE AT FUEL DISPENSING ISLAND 1 FOR CONNECTION WITH THE EJ WARD UNIT.

34. FURNISH AND INSTALL KOHLER 30KW DIESEL GENERATOR EQUIPPED WITH KOHLER AUTOMATIC SWITCHING CONTROLLER WITHIN NEW ELECTRICAL BUILDING. CONNECT DAY TANK SUPPLY AND RETURN PIPING TO EXISTING TANK "B" AND NEW EMERGENCY GENERATOR.

35. TRANSFER VEEDER ROOT TERMINAL FROM EXISTING PUMP CONTROL BUILDING TO NEW ELECTRICAL BUILDING. CONNECT VEEDER ROOT TERMINAL TO TANK/PIPING SENSORS AND CONTROLS, REPLACE MODULES AS REQUIRED.

36. TRANSFER EJ WARD CARD READER TERMINAL FROM EXISTING PUMP CONTROL BUILDING TO FUEL DISPENSING ISLAND 1 WITH PROPER CONNECTION TO TELEPHONE, ELECTRICAL, DISPENSERS, AND PUMPS.

37. FURNISH AND INSTALL TWO (2) GFI RECEPTICALS. ONE (1) TO BE LOCATED IN THE NEW ELECTRICAL BUILDING AND ONE (1) TO BE LOCATED AT FUEL DISPENSING ISLAND 1 ADJACENT TO THE EJ WARD UNIT.

38. FURNISH AND INSTALL POWER CONDITIONER WITHIN THE NEW ELECTRICAL BUILDING AND CONNECT WITH THE VEEDER ROOT TERMINAL AND EJ WARD UNIT.

39. FURNISH AND INSTALL EMERGENCY SHUT-OFF SWITCHES AT DESIGNATED LOCATIONS. EMERGENCY SHUT-OFF SWITCHES TO TERMINATE FUEL DISPENSING ACTIVITIES ONCE ACTIVATED.

40. PROVIDE START UP OPERATIONS FOR ENTIRE SYSTEM AND TEST FOR EFFICIENT OPERATION.

41. CONVERT TEMPORARY DIESEL STORAGE TANK "C" TO UNLEADED. REMOVE DIESEL PRODUCT, FLUSH TANK, PIPING, VALVES AND EQUIPMENT AND TRANSFER TANK FROM PRESENT LOCATION (ADJACENT TO EXISTING PUMP CONTROL BUILDING) TO NEW CONCRETE SLAB 1 AS SPECIFIED. CONNECT ELECTRICAL CONDUIT, SENSOR AND TANK GAUGE CONDUIT, AND NEW PRODUCT AND VAPOR RECOVERY PIPING. CONNECT TO NEW LIGHTNING PROTECTION GROUNDING GRID. PLACE HEALY 400 ORVR VAPOR RECOVERY SYSTEM IN OPERATION.

42. DEMOLISH EXISTING PUMP CONTROL BUILDING AND PROPERLY DISPOSE OF DEBRIS. REMOVE EXISTING ELEVATED CONCRETE SLABS AT FORMER FUEL ISLANDS AND PIPING TRENCH AS SHOWN ON PLANS.

43. CLEAN UP DEBRIS FROM CONSTRUCTION AND RESTORE SITE TO ITS ORIGINAL CONDITION.

44. TOUCH UP TANKS "C", "D", AND "E" AT CONCLUSION OF TANK SETTING USING PAINT SUPPLIED BY GSA.

45. FURNISH AND INSTALL INTERIOR PLASTIC LAMINATE SIGNAGE AS REQUIRED.

46. IDENTIFY ALL PIPING AND CONNECTIONS AS FOLLOWS:
   A) PROVIDE PRODUCT IDENTIFICATION AS LISTED BELOW FOR ALL ABOVEGROUND PIPING AND TANK CONNECTIONS. USE VINYL SELF STICKING LETTERS AND BANDING TAPE OR PAINT AND STENCILED LETTERING.

PRODUCT	COLOR/LEGEND
DIESEL	YELLOW
UNLEADED GASOLINE	LIGHT BLUE
VAPOR RECOVERY	ORANGE

   B) PROVIDE A MINIMUM 4-INCH BAND FULL CIRCUMFERENCE OF PIPE AT EACH END OF LEGEND AND ARROWS TO INDICATE DIRECTION OF FLOW.

PLAN APPROVED BY: [illegible] DATE: 10/6/99
MIAMI-DADE COUNTY DERM
CONDITIONS AS FOLLOWS:

P: STD-PC2/DL
9/8/99 TAM-54-JAR, DOC-54-MJS
65612\65612001.DWG

No.	Date	Revisions	Init
1.	9/07/99	MODIFY TANK "B" SECONDARY CONTAINMENT SLAB	JAR
2.	9/07/99	ADD CONCRETE JERSEY BARRIERS	JAR

Graphic Scale

Project Mgr. ALEX SANCHEZ
Designed by ALEX SANCHEZ
Drawn by MICHAEL SCHOEDINGER
Checked by GABINO CUEVAS, P.E.
Prof. Engr. ALEX SANCHEZ
PE License #54637 9/9/99

PSSSC License Holder:
ALEJANDRO E. SANCHEZ
License #: PCC056813
Signature:
Date: 9/9/99

BBL
ENVIRONMENTAL SERVICES, INC.
Remedial Action+Management and Construction

GENERAL SERVICES ADMINISTRATION
SHOP 3
401 NW 56TH STREET
MIAMI, FLORIDA 33166

CONSTRUCTION DRAWINGS

GENERAL NOTES AND SCOPE OF WORK

File Number
656.12.001F

Date
SEPTEMBER 1999

BBL Environmental Services, Inc.
7975 NW 154th St.
Suite 310
Miami Lakes, FL 33016
305-820-3353

G-1

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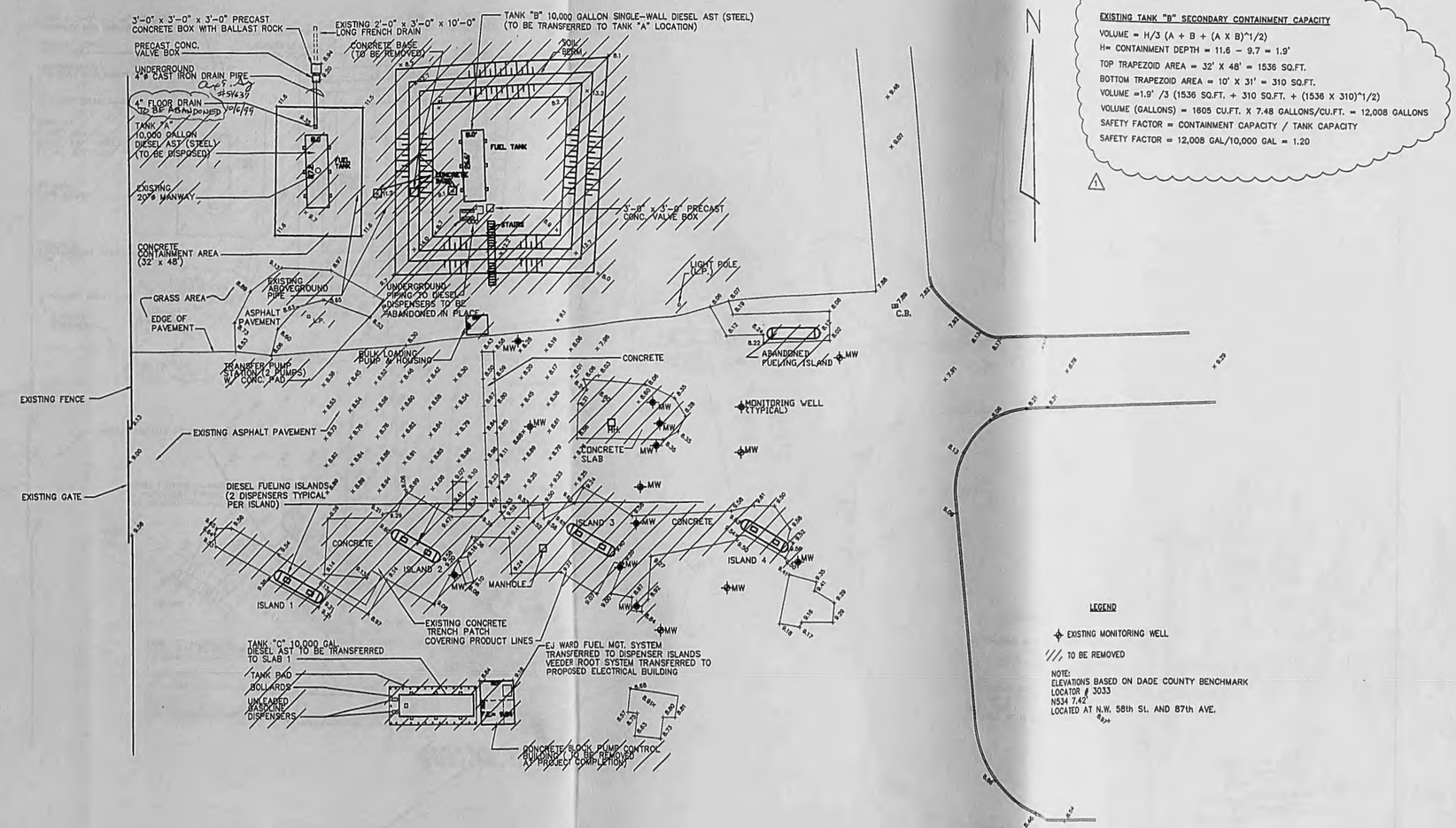


EXISTING TANK "B" SECONDARY CONTAINMENT CAPACITY

VOLUME = H/3 (A + B + (A X B)^1/2)

H= CONTAINMENT DEPTH = 11.6 – 9.7 = 1.9'

TOP TRAPEZOID AREA = 32' X 48' = 1536 SQ.FT.

BOTTOM TRAPEZOID AREA = 10' X 31' = 310 SQ.FT.

VOLUME =1.9' /3 (1536 SQ.FT. + 310 SQ.FT. + (1536 X 310)^1/2)

VOLUME (GALLONS) = 1605 CU.FT. X 7.48 GALLONS/CU.FT. = 12,008 GALLONS

SAFETY FACTOR = CONTAINMENT CAPACITY / TANK CAPACITY

SAFETY FACTOR = 12,008 GAL/10,000 GAL = 1.20

1

LEGEND

EXISTING MONITORING WELL

TO BE REMOVED

NOTE:
ELEVATIONS BASED ON DADE COUNTY BENCHMARK
LOCATOR # 3033
N534 7.42'
LOCATED AT N.W. 58th St. AND 87th AVE.

P: STD-PC2/DL
9/8/99 TAM-54-JAR, MJS
6561\2\66120-2.DWG

Graphic Scale
1"=20'
10' 0 10' 20'

No.	Date	Revisions	Init.
1.	9/07/99	ADD TANK "B" SECONDARY CONTAINMENT CALCULATIONS	JAR

Project Mgr. ALEX SANCHEZ
Designed by ALEX SANCHEZ
Drawn by MICHAEL SCHOEDINGER
Checked by GABINO CUEVAS, P.E.
Prof. Eng. ALEX SANCHEZ
PE License #54937

PSSC License Holder:
ALEJANDRO E. SANCHEZ
License #: PCC056813
Signature:
Date: 9/7/99

54937 9/7/99

BBL
ENVIRONMENTAL SERVICES, INC.
Remedial Action+Management and Construction

GENERAL SERVICES ADMINISTRATION
SHOP 3
901 NW 58TH STREET
MIAMI, FLORIDA 33168

CONSTRUCTION DRAWINGS

EXISTING SITE PLAN

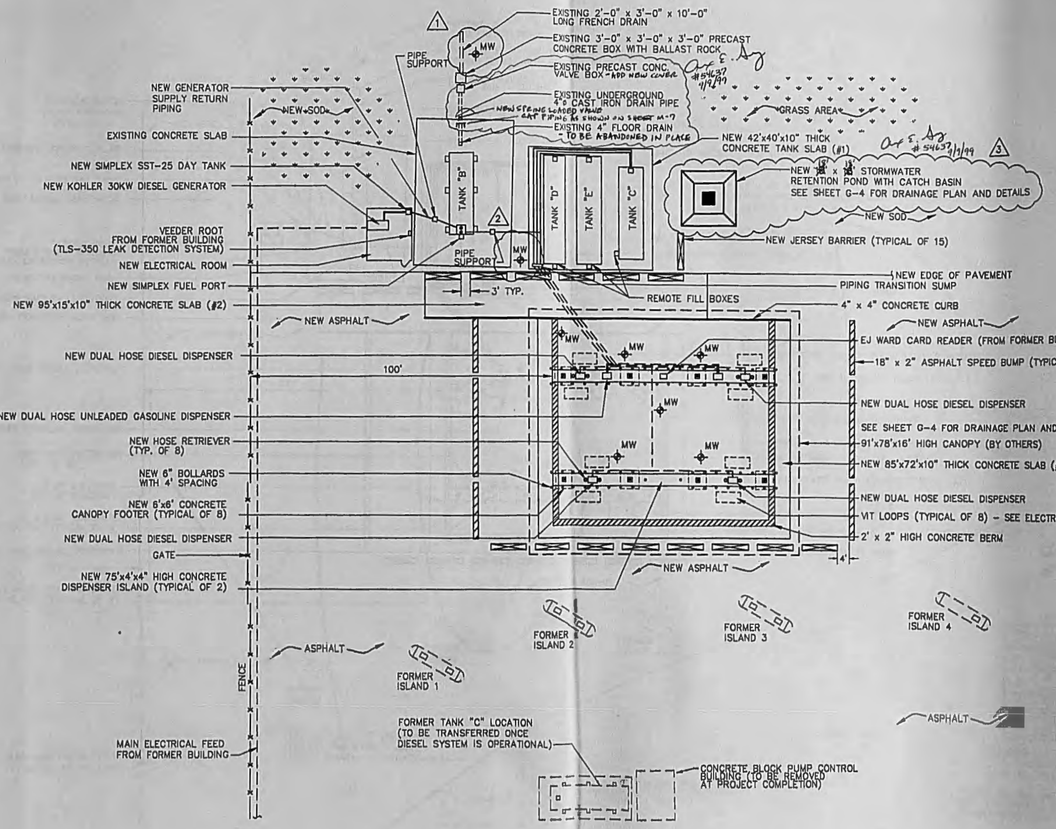
File Number
656.12.002F

Date
SEPTEMBER 1999

BBL Environmental Services, Inc.
7975 NW 154th St.
Suite 310
Miami Lakes, FL 33016
305-820-3353

G-2

6



LEGEND

MW PROP. MONITORING WELL

TANK INFORMATION

TANK ID	SIZE	PRODUCT STORED
B	10,000 GALLONS	DIESEL
C	10,000 GALLONS	UNLEADED
D	12,000 GALLONS	DIESEL
E	12,000 GALLONS	DIESEL

NOTES:
CONVERT AST FROM DIESEL TO UNLEADED.
ALL TANKS FURNISHED BY GSA.

NOTES: CONTRACTOR IS RESPONSIBLE FOR REGRADING THE AREAS ADJACENT TO ALL PROPOSED CONCRETE SLABS. GRADES MUST ASSURE DRAINAGE AWAY FROM FUEL ISLANDS.

ENVIRONMENTAL REVIEW APPROVAL SUBJECT TO THE ATTACHED CONDITIONS
PLAN APPROVED BY: DATE 10/15/99
INSPECTED BY: DATE:
INSPECTION PASSED / FAILED

MIAMI-DADE COUNTY DERM
POLLUTION CONTROL DIVISION
POLLUTION REMEDIATION SECTION
DISAPPROVED: DATE 10/14/99

MIAMI-DADE COUNTY DERM
POLLUTION CONTROL DIVISION
POLLUTION REMEDIATION SECTION
ENVIRONMENTAL REVIEW APPROVAL SUBJECT TO THE ATTACHED CONDITIONS
PLAN APPROVED BY: DATE 10/19/99
INSPECTED BY: DATE:
INSPECTION PASSED / FAILED

P: STD-PC2/DL
9/8/99 TAM-54-JAR, MJS
656126/656120-3.DWG

Graphic Scale
10 0 10
APPROXIMATE SCALE IN FEET

No.	Date	Revisions	Init.
1.	9/07/99	ADD MONITORING WELL	JAR
2.	9/07/99	ADD MONITORING WELL	JAR
3.	9/07/99	MODIFY LOCATION OF RETENTION POND	JAR

Project Mgr. ALEX SANCHEZ
Designed by ALEX SANCHEZ
Drawn by MICHAEL SCHOEDINGER
Checked by GABINO CUEVAS, P.E.
Prof. Engr. ALEX SANCHEZ
PE License #54637

PSSSC License Holder:
ALEJANDRO E. SANCHEZ
License #: PCC056813
Signature:
Date: 9/9/99

A. Sanchez #54637 9/9/99

BBL
ENVIRONMENTAL SERVICES, INC.
Remedial Action+Management and Construction

GENERAL SERVICES ADMINISTRATION
SHOP 3
501 NW 65TH STREET
MIAMI, FLORIDA 33166

CONSTRUCTION DRAWINGS

PROPOSED SITE PLAN

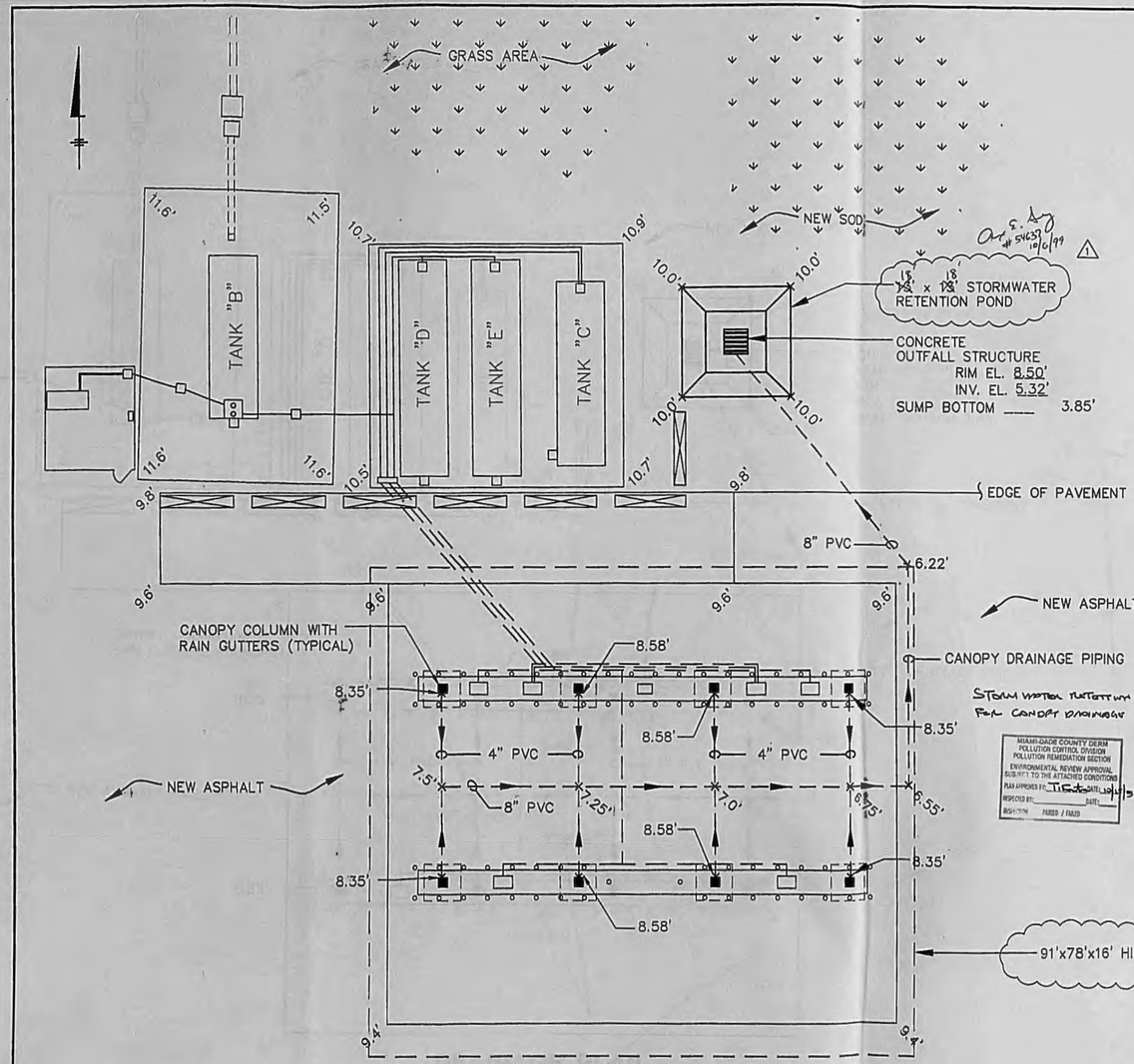
File Number
656.12.003F

Date
SEPTEMBER 1999

BBL Environmental Services, Inc.
7975 NW 154th St.
Suite 310
Miami Lakes, FL 33016
305-828-3353

G-3

6

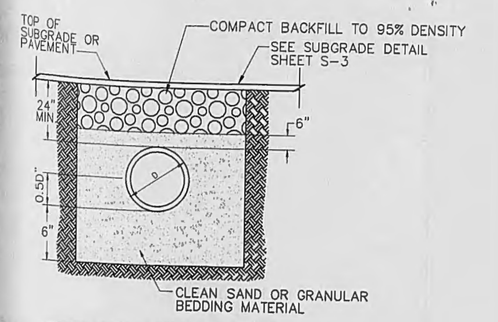


STORM WATER PUMP WITH FLOAT FOR CANOPY DRAINAGE ONLY

MIAMI-DADE COUNTY DERM
POLLUTION CONTROL DIVISION
POLLUTION REMEDIATION SECTION
ENVIRONMENTAL REVIEW APPROVAL SUBJECT TO THE ATTACHED CONDITIONS
PLAN APPROVED BY: _____ DATE: 10/15/99
INSPECTED BY: _____ DATE: _____
REGISTRATION PASSED / FAILED

DRAINAGE PLAN

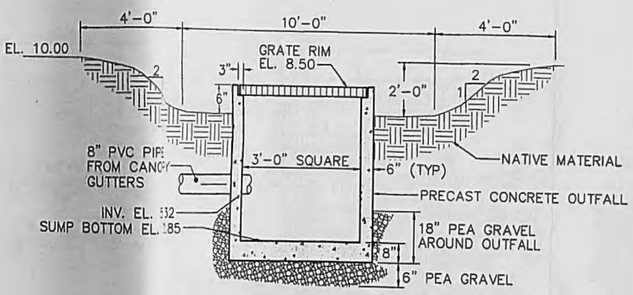
SCALE: 1" = 10'-0"



PIPE BEDDING DETAIL

STORMWATER

NOT TO SCALE



TYPICAL RETENTION POND SECTION WITH OUTFALL STRUCTURE

NOT TO SCALE

MIAMI-DADE COUNTY DERM
POLLUTION CONTROL DIVISION
POLLUTION REMEDIATION SECTION
DISAPPROVED: _____ DATE: 10/20/99

NOTES:
1. ELEVATIONS FOR DRAINAGE PIPE ARE PIPE INVERT ELEVATIONS.
2. GRASS AREA SURROUNDING STORMWATER RETENTION POND MUST BE REGRADED SO THAT POND IS NOT AREA LOW POINT.
3. ELEVATIONS FOR CONCRETE OR SOD ARE FOR TOP OF SURFACE.

P: STD-PC2/DL
9/8/99 MM-54-MJS TAM-84-JAR
656120/656120-4.DWG

Graphic Scale
APPROXIMATE SCALE IN FEET

No.	Date	Revisions	Init.
1.	9/07/99	MODIFY LOCATION OF RETENTION POND	JAR
2	9/08/99	SHOW CANOPY	JAR

Project Mgr. ALEX SANCHEZ
Designed by ALEX SANCHEZ
Drawn by MICHAEL SCHOEDINGER
Checked by GABINO QUEVAS, P.E.
Prof. Eng. ALEX SANCHEZ
P.E. License #54637

#54637 9/9/99

BBL
ENVIRONMENTAL SERVICES, INC.
Remedial Action•Management and Construction

GENERAL SERVICES ADMINISTRATION
FEDERAL SHOP 3
401 NW 68TH STREET
MIAMI, FLORIDA 33166

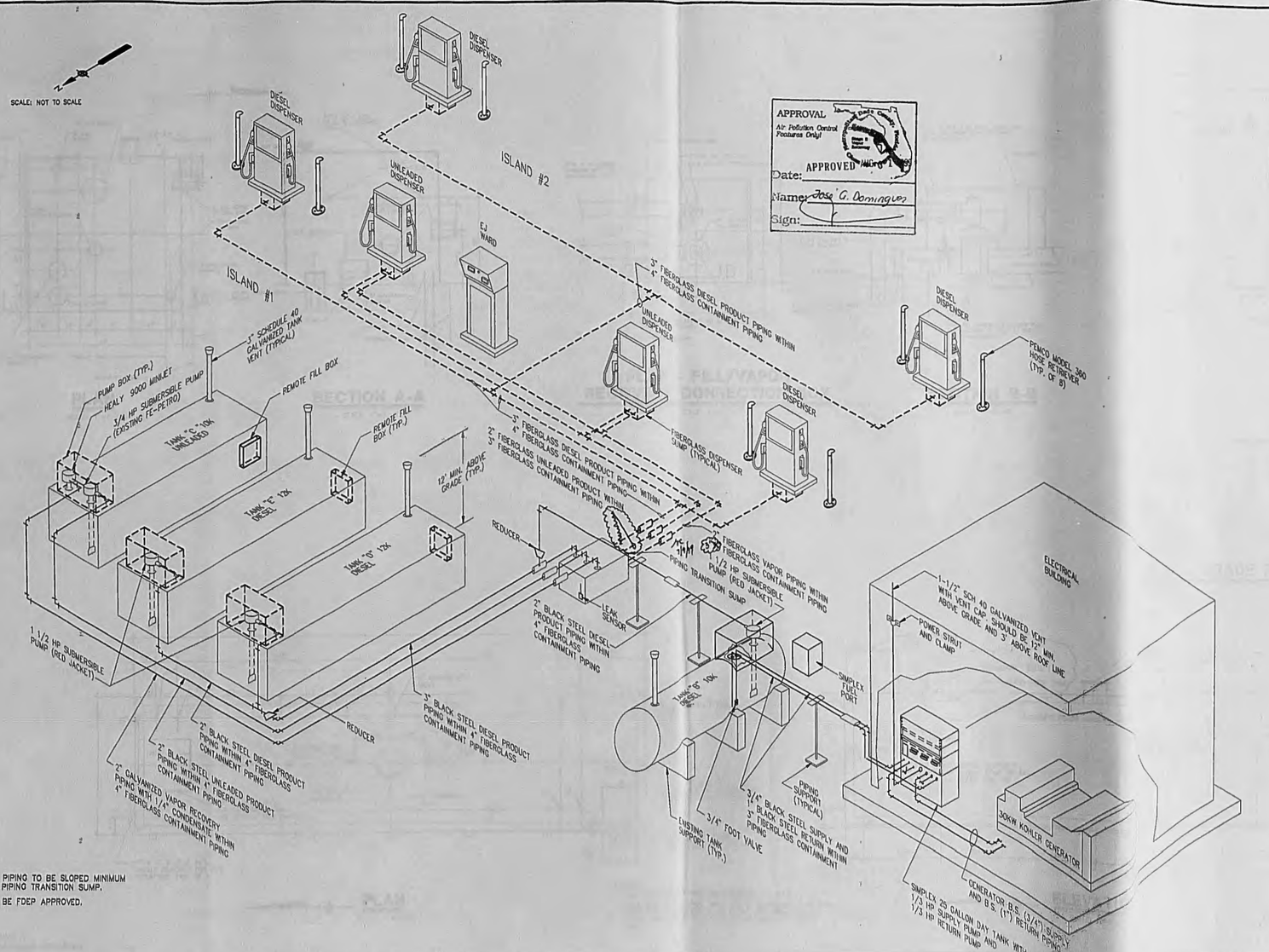
CONSTRUCTION DRAWINGS

DRAINAGE PLAN AND DETAILS

File Number 656.12.0041
Date SEPTEMBER 1999

BBL Environmental Services, Inc.
7975 NW 154th St.
Suite 310
Miami Lakes, FL 33016
305-820-3303

G-4



APPROVAL
Air Pollution Control Features Only!
APPROVED
Date:
Name: Jose G. Domingues
Sign:

MIAMI-DADE COUNTY DERM
POLLUTION CONTROL DIVISION
POLLUTION REMEDIATION SECTION
ENVIRONMENTAL REVIEW APPROVAL
SUBJECT TO THE ATTACHED CONDITIONS
PLAN APPROVED BY: DATE: 10/4/99
INSPECTED BY: DATE:
INSPECTION FAXED / EMAILED

MIAMI-DADE COUNTY
BUILDING DEPARTMENT
MECHANICAL DIVISION
APPROVED
DATE 10-7-99

NOTES:
ALL UNDERGROUND PIPING TO BE SLOPED MINIMUM 1/8"/FT. BACK TO PIPING TRANSITION SUMP.
ALL EQUIPMENT TO BE FDEP APPROVED.

P: STD-PC2/DL
7/6/99 TAM-54-JAR MIA-54 MJS
05012\M99M41.DWG

Graphic Scale	No.	Date	Revisions	Init

Project Mgr.	ALEX SANCHEZ
Designed by	ALEX SANCHEZ
Drawn by	MICHAEL SCHOEDINGER
Checked by	GABINO CUEVAS
Prof. Eng.	GABINO CUEVAS, P.E.
PE License	#42530

Gabino Cuevas 7/1/99 #42530

BBL
ENVIRONMENTAL SERVICES, INC.
Remedial Action•Management and Construction

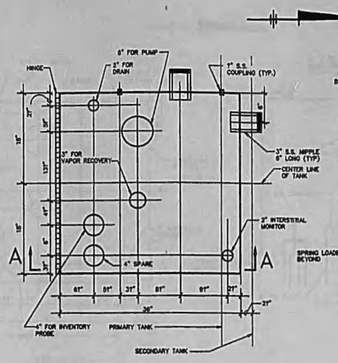
GENERAL SERVICES ADMINISTRATION
SHOP 3
8801 NW 58TH ST
MIAMI, FLORIDA 33
CONSTRUCTION DRAWS

ISOMETRIC TANK AND PIPING DIAGRAM

File Number 856.12.004F
Date JUNE 1999

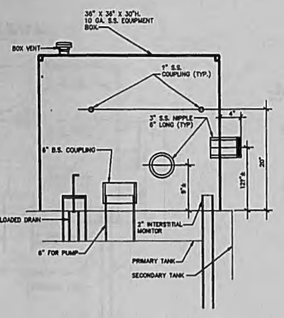
BBL Environmental Services, Inc.
7975 NW 154th St.
Suite 310
Miami Lakes, FL 33016
305-828-3353

M-1



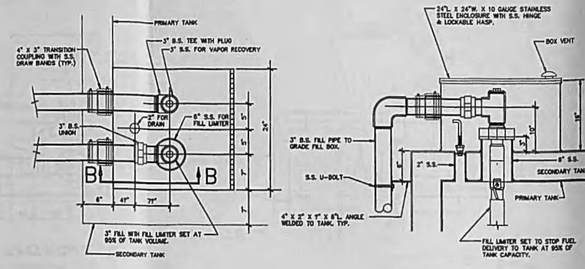
PLAN

SCALE: 1"=1'-0"



SECTION A-A

SCALE: 1"=1'-0"

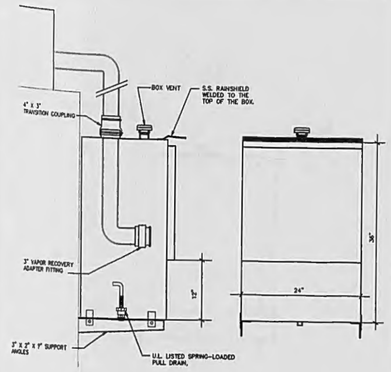


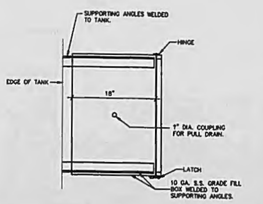
PLAN - FILL/VAPOR RECOVERY CONNECTION BOX

SCALE: 1"=1'-0"

SECTION B-B

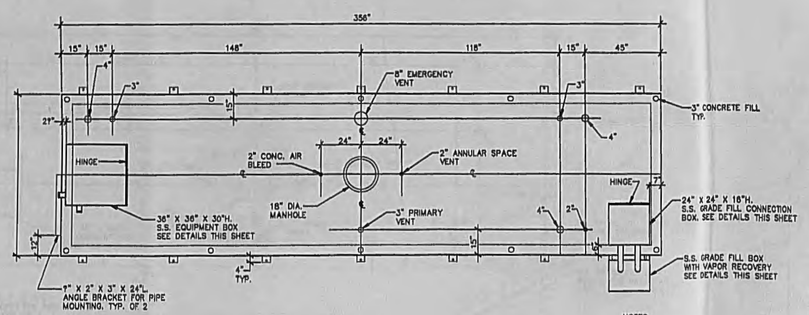
SCALE: 1"=1'-0"





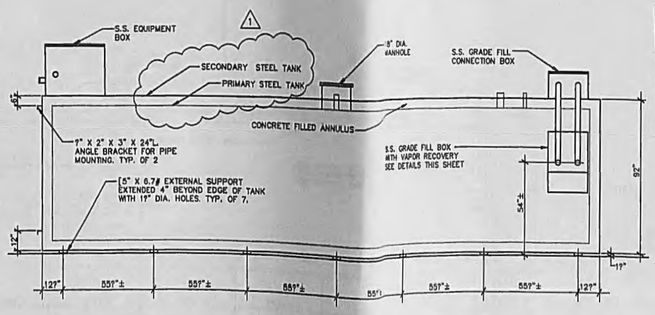
PLAN - GRADE FILL/ VAPOR RECOVERY BOX

SCALE: 1"=1'-0"



PLAN

SCALE: 1"=3'-0"



ELEVATION

SCALE: 1"=3'-0"

MIAMI-DADE COUNTY DERM
POLLUTION CONTROL DIVISION
POLLUTION REMEDIATION SECTION
ENVIRONMENTAL REVIEW APPROVAL SUBJECT TO THE ATTACHED CONDITIONS
PLAN APPROVED BY: TW DATE: 10/18/99
INSPECTED BY: _____ DATE: _____
INSPECTION HASSD / NAZD

NOTES:
1. ALL TANK TOP FITTINGS ARE THREADED S.S. PIPE.
2. EXTERIOR FINISH: COMM. WHITE METAL SANDBLAST, 3 TO 4 MIL INORGANIC ZINC PRIMER, 8 TO 10 MIL INTERMEDIATE GLASS FLAKE EPOXY COAT & 2 TO 3 MIL POLYURETHANE TOP COAT.

P: STD-PCS/DL
9/9/99 TAM-34-JAR, BOC-54-MJS
65612\65612M-2.DWG

Graphic Scale	No.	Date	Revisions	Init.
SCALE AS NOTED	1.	9/07/99	SHOW SECONDARY/PRIMARY TANK AS STEEL	JAR

Project Mgr.	ALEX SANCHEZ
Designed by	ALEX SANCHEZ
Drawn by	MICHAEL SCHOEDINGER
Checked by	GABINO QUEVAS, P.E.
Prof. Eng.	ALEX SANCHEZ
PE License	#54937

Alex E. Sanchez #54937 9/9/99

BBL
ENVIRONMENTAL SERVICES, INC.
Remedial Action+Management and Construction

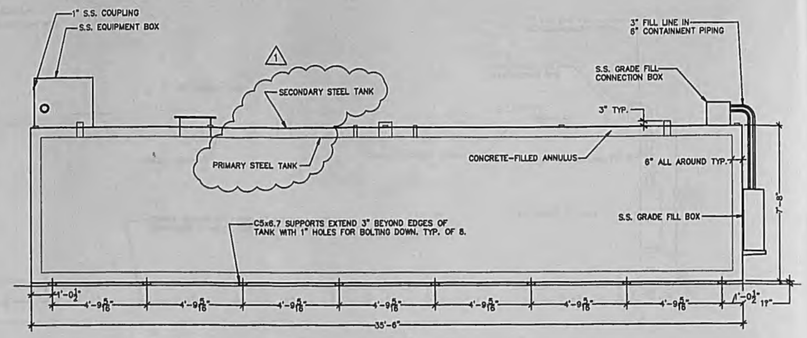
GENERAL SERVICES ADMINISTRATION
SHOP 3
401 NW 58TH STREET
MIAMI, FLORIDA 33166
CONSTRUCTION DRAWINGS

EXISTING 10,000 GALLON AST (TANK "C") DETAILS

File Number 65612.005F
Date SEPTEMBER 1999

BBL Environmental Services, Inc.
7975 NW 154th St.
Suite 310
Miami Lakes, FL 33016
305-828-3353

M-2

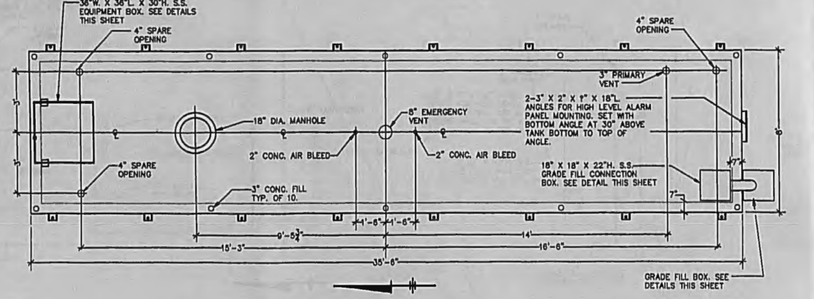


ELEVATION - TANK "D" AND "E"

APPROXIMATE SCALE 1"=3'

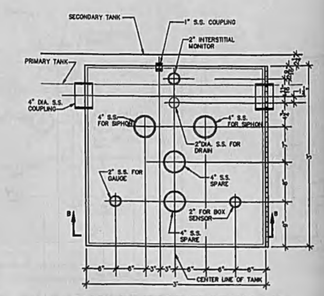
NOTES:

1. ALL TANK TOP FITTINGS ARE THREADED S.S. PIPE.
2. EXTERIOR FINISH: COMM. WHITE METAL SANDBLAST, 3 TO 4 MIL INORGAMIC ZINC PRIMER, 8 TO 10 MIL INTERMEDIATE GLASS FLAKE EPOXY COAT & 2 TO 3 MIL POLYURETHANE TOP COAT.
3. TANK SHALL BE PROVIDED WITH 3" THICK X FULL LENGTH NEOPRENE PADS FOR EACH OF THE TANK SUPPORT FEET.



PLAN - TANK "D" AND "E"

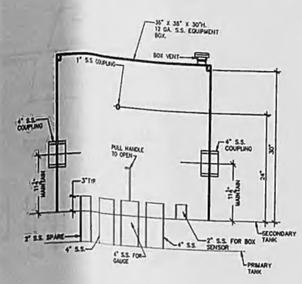
APPROXIMATE SCALE 1"=3'



PLAN - DETAIL OF EQUIPMENT BOX

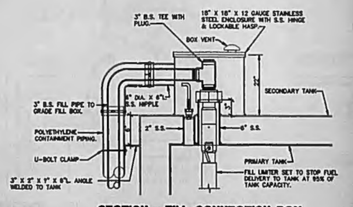
SCALE 1"=1'-0"

NOTE:
1. ALL TANK NIPPLES SHALL BE 304 STAINLESS STEEL.



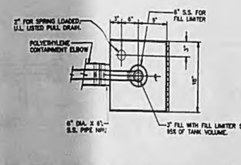
SECTION "B-B"

SCALE 1"=1'-0"



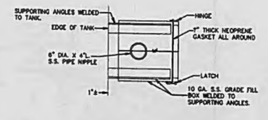
SECTION - FILL CONNECTION BOX

NOT TO SCALE



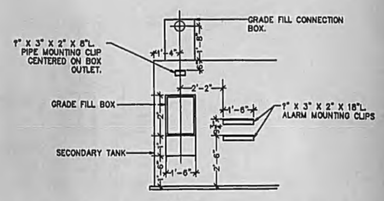
PLAN - FILL CONNECTION BOX

NOT TO SCALE



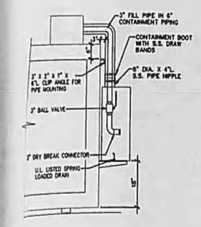
PLAN - GRADE FILL

NOT TO SCALE



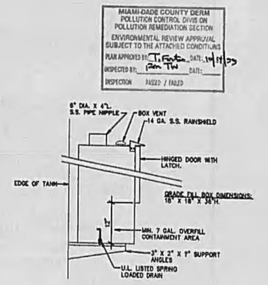
TYP. MOUNTING CLIP DETAILS

APPROXIMATE SCALE 1"=3'



ELEVATION - GRADE FILL

NOT TO SCALE



ELEVATION - GRADE FILL

NOT TO SCALE

P: STD-PC2/DL
9/8/99 TAM-84-JAR, BOO-84-MJS
66612\66612M-3.DWG

Graphic Scale

SCALE AS NOTED

No.	Date	Revisions	Init
1.	9/07/99	SHOW SECONDARY/PRIMARY TANK AS STEEL	JAR

Project Mgr. ALEX SANCHEZ
Designed by ALEX SANCHEZ
Drawn by MICHAEL SCHOEDINGER
Checked by GABINO CUEVAS, P.E.
Prof. Eng. ALEX SANCHEZ
PE License #54637

Gary S. Arey #54637 9/9/99

BBL
ENVIRONMENTAL SERVICES, INC.
Remedial Action•Management and Construction

GENERAL SERVICES ADMINISTRATION
SHOP 3
8th NW 58TH STREET
MIAMI, FLORIDA 33166
CONSTRUCTION DRAWINGS

EXISTING 12,000 GALLON AST (TANK "D" & "E") DETAILS

File Number 66612.006F
Date SEPTEMBER 1999

BBL Environmental Services, Inc.
7975 NW 154th St.
Suite 310
Miami Lakes, FL 33016
305-828-3303

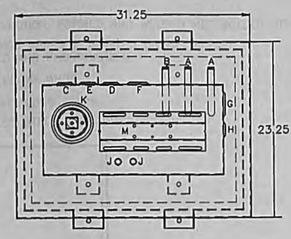
M-3

TANK FITTING SCHEDULE

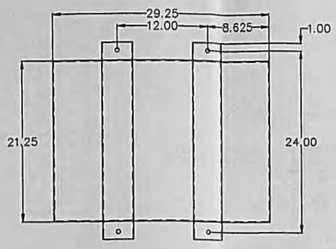
PORT	DESCRIPTION	SIZE
A	ENGINE SUPPLY DROP TUBE	0.50" NPT, MALE
B	SIPHON DRAIN DROP TUBE	0.50" NPT, MALE
C	OVERFLOW PORT	1.00" NPT, FEMALE
D	ENGINE RETURN PORT	1.00" NPT, FEMALE
E	EXTRA PIPE FLANGE	1.00" NPT, FEMALE
F	TANK VENT PORT	1.50" NPT, FEMALE
G	MANUAL FILL PORT	2.00" NPT, FEMALE
H	HAND PUMP MOUNTING PORT	0.75" NPT, FEMALE
J	PUMP CONNECTION TO TANK DROP TUBE	0.50" NPT, MALE
K	FLOATSWITCH MTG/INSPECTION PORT	3.50" NPT, FEMALE
L	RUPTURE BASIN DRAIN	.375" NPT, FEMALE
M	PUMP MOTOR MOUNTING BRACKET	

PUMP INLET

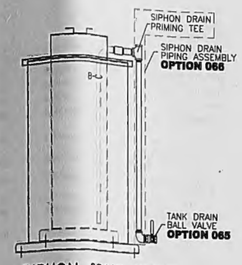
PUMP	GPM	INLET SIZE
STANDARD	2 GPM	.50" NPT INLET



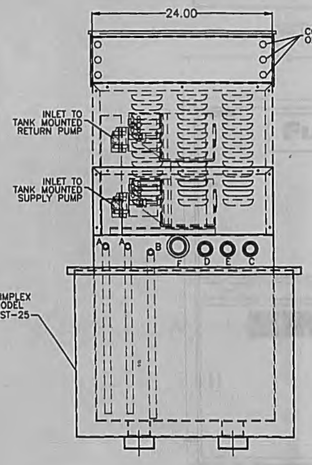
TANK FITTINGS
TOP VIEW



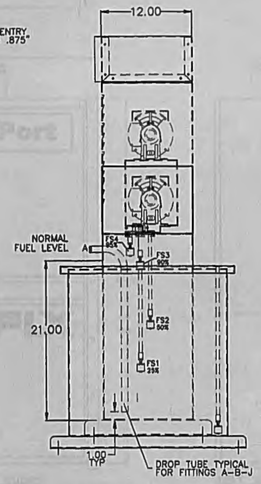
TANK MOUNTING DETAIL



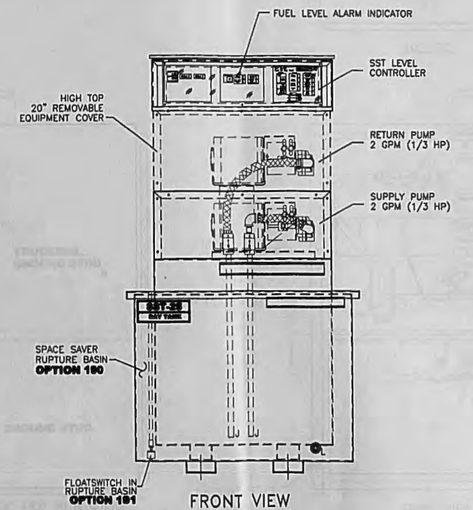
SIPHON DRAIN DETAIL



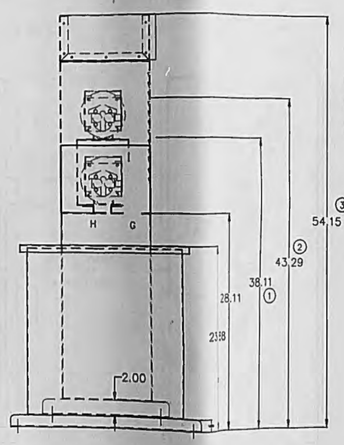
REAR VIEW



LEFT SIDE VIEW



FRONT VIEW



RIGHT SIDE VIEW

DAY TANK HEIGHT

1. WITHOUT ON-BOARD PUMP
2. WITH SINGLE PUMP 1/3 & 1/2 H.P.
3. WITH SINGLE PUMP 3/4 & 1 H.P. OR DUPLEX PUMPS

OPTIONS INSTALLED	OPTIONS SHIPPED LOOSE
☐ **065-** TANK DRAIN BALL VALVE	☐ **060-** FUEL STRAINER, Y-TYPE, .75" NPT., 40 MESH
☐ **066-** SIPHON DRAIN PIPING ASSEMBLY	☐ **063-** VENT CAP
☐ **080-** SOLENOID VALVE, N.C. 120VAC	☐ **087-** MANUAL SHUT-OFF BALL VALVE .50"NPT
☐ **190-** SPACE SAVER RUPTURE BASIN	☐ **090-** FOOT VALVE 1.00" NPT
☐ **191-** FLOATSWITCH IN RUPTURE BASIN	
☐ **390-** OVERFLOW RETURN PUMP & CONTROLLER	

NOTES:
1) CONSTRUCTION: 12 GA HRS
2) LISTING: UL 142
3) RATING: ATMOSPHERIC TANK TESTED TO 5 PSI
4) FINISH: TANK PRIMED AND FINISH PAINTED ASA 61 LIGHT GRAY
RUPTURE BASIN PRIMED AND FINISH PAINTED ASA 61 LIGHT GRAY
EQUIPMENT COVER PRIMED AND FINISH PAINTED ASA 61 POLYURETHANE GRAY
5) DUE TO SYSTEM COMPLEXITY, SOME COMPONENTS MAY NOT BE VISIBLE IN ALL VIEWS
6) ALL DIMENSIONS ±.125"
7) TANK FITTINGS A-M ARE STANDARD ON ALL TANKS

MIAMI-DADE COUNTY
BUILDING DEPARTMENT
MECHANICAL DIVISION
APPROVED John Nagy PE
DATE 7-19-99

MIAMI-DADE COUNTY DERM
POLLUTION CONTROL DIVISION
POLLUTION REMEDIATION SECTION
ENVIRONMENTAL REVIEW APPROVAL
SUBJECT TO THE ATTACHED CONDITIONS
PLAN APPROVED BY TW DATE: 10/19/99
INSPECTED BY: DATE:
INSPECTION PERMIT / YARD

P: STD-PC2/DL
7/6/99 TAM-54-JAR, MJS
6561.2\6561.2M04.DWG

Graphic Scale	No.	Date	Revisions	Init
NOT TO SCALE				

Project Mgr. ALEX SANCHEZ
Designed by ALEX SANCHEZ
Drawn by MICHAEL SCHOEDINGER
Checked by SABINO CUEVAS
Prof. Eng. SABINO CUEVAS, P.E.
PE License #42530

7/9/99

BBL
ENVIRONMENTAL SERVICES, INC.
Remedial Action•Management and Construction

GENERAL SERVICES ADMINISTRATION
SHOP 3
8801 NW 58TH STREET
MIAMI, FLORIDA 33101
CONSTRUCTION DRAWINGS

SIMPLEX DAY TANK DETAILS

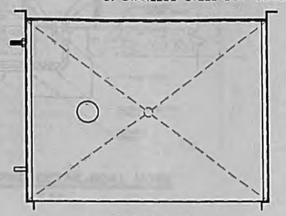
File Number
656.12.0077
Date
JUNE 1999

BBL Environmental Services, Inc.
7975 NW 154th St.
Suite 310
Miami Lakes, FL 33016
305-828-3363

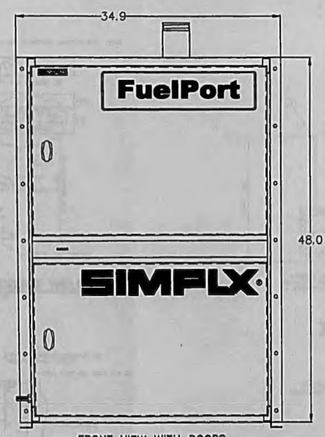
M-4

NOTES:

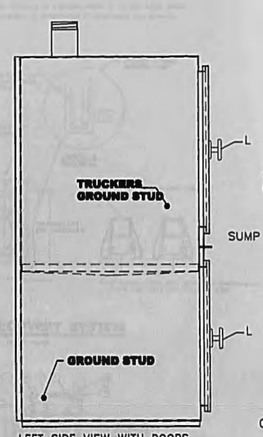
1. CONSTRUCTION: FORMED AND WELDED HOT ROLLED STEEL
2. ALL PARTS ABRASIVE BLASTED OR CHEMICALLY CLEANED AND PHOSPHATIZED
3. PAINT: EPOXY WHITE
4. ALL DIMENSIONS +.125
5. STANLESS STEEL BOX CONSTRUCTION



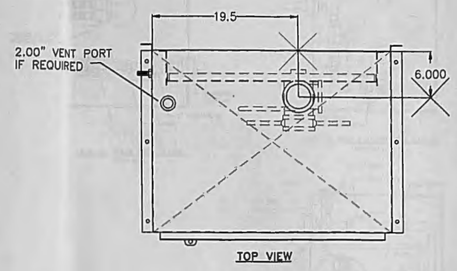
SECTION A-A



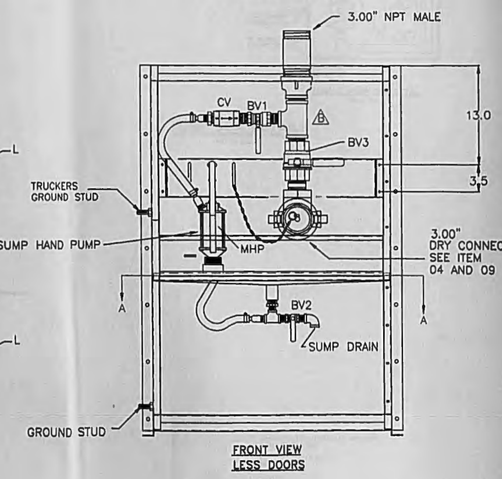
FRONT VIEW WITH DOORS



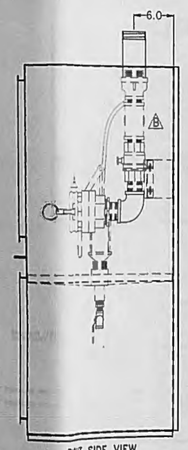
LEFT SIDE VIEW WITH DOORS



TOP VIEW



FRONT VIEW LESS DOORS



RHT SIDE VIEW LESS DOORS

PARTS LIST/LEGEND

				MECHANICAL
01	1	22918201	BV3	BALL VALVE, 2.00" NPT.
02	1	22918050	BV2	BALL VALVE, 0.50" NPT.
03	1	22918010	BV1	BALL VALVE, 1.00" NPT.
⚠ 04	1	82444401	AC	3.00" DRY DISCONNECT PT STYLE
05	1	22517001	NIP1	3.00" NPT, 4.0" BLACK PIPE NIPPLE
06	1	22433001	RB1	BELL REDUCER 3.00" X 2.00"
07	1	22532001	RT	BLACK REDUCING TEE 2.00" X 1.00" X 2.00"
08	4	22744999	HB	1/2" HOSE BARB
⚠ 09	1	82440763A	DP	4.00" DUST COVER KAMLOK PART 634-B, 4"
10	1	24740001	MHP	HAND PUMP ANGELA PUMP CO. MODEL 200
11	3	NONE	NIP2	NIPPLE CLOSED 2.00"
12	1	NONE	RDH	REDUCER BUSHING 3.00" X 2.00"
13	2	22433000	RDH2	REDUCER BUSHING 1.00" X .50"
14	2	22494000	NIP3	CLOSED NIPPLE 1.00"
15	3	22492350	NIP4	CLOSED NIPPLE .50"
16	1	22462350	EL	ELBOW 90 DEG. .50 NPT.
17	4FT	NONE	HOSE	1/2" BRADEY HOSE
18	2	15453000	L	LATCH

MIAMI-DADE COUNTY
BUILDING DEPARTMENT
MECHANICAL DIVISION
APPROVED
DATE 10-19-99

MIAMI-DADE COUNTY DERM
POLLUTION CONTROL DIVISION
POLLUTION REMEDIATION SECTION
ENVIRONMENTAL REVIEW APPROVAL
SUBJECT TO THE ATTACHED CONDITIONS
PLAN APPROVED BY: DATE: 10/19/99
INSPECTED BY: DATE:
INSPECTION PASSED / FAILED

P: STD-PC2/DL
4/8/99 TAM-54-JAR, A.D.A.-J.L.L.
05612\05612M-5.DWG

Graphic Scale	No.	Date	Revisions	Init.
NOT TO SCALE				

Project Mgr.	ALEX SANCHEZ
Designed by	ALEX SANCHEZ
Drawn by	MICHAEL SCHOENINGER
Checked by	GABINO CUEVAS
Prof. Eng.	GABINO CUEVAS, P.E.
PE License	#42630

7/1/99

BBL
ENVIRONMENTAL SERVICES, INC.
Remedial Action•Management and Construction

GENERAL SERVICES ADMINISTRATION
SHOP 3
8801 NW 58TH STREET
MIAMI, FLORIDA 33101
CONSTRUCTION DRAWINGS

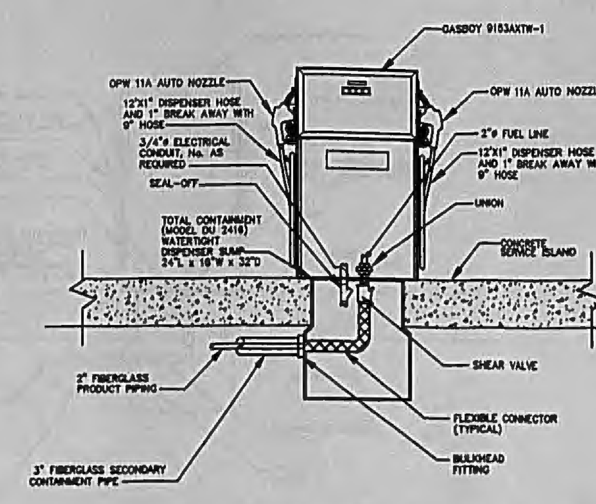
SIMPLEX FUEL PORT DETAILS

File Number
656.12.008F

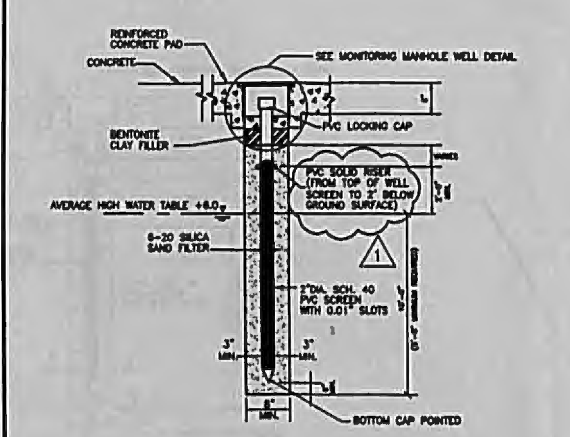
Date
MAY 1999

BBL Environmental Services, Inc.
7975 NW 154th St.
Suite 310
Miami Lakes, FL 33016
305-828-3383

M-5



DISPENSER PIPING DETAIL-DUAL HOSE
NOT TO SCALE



TYPICAL MONITORING WELL
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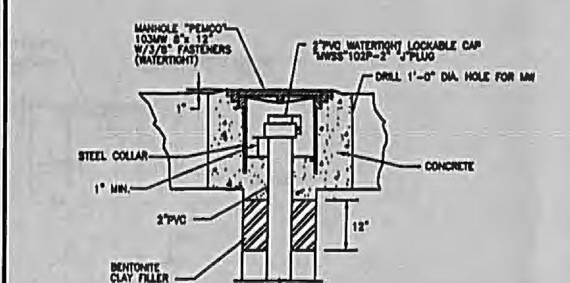
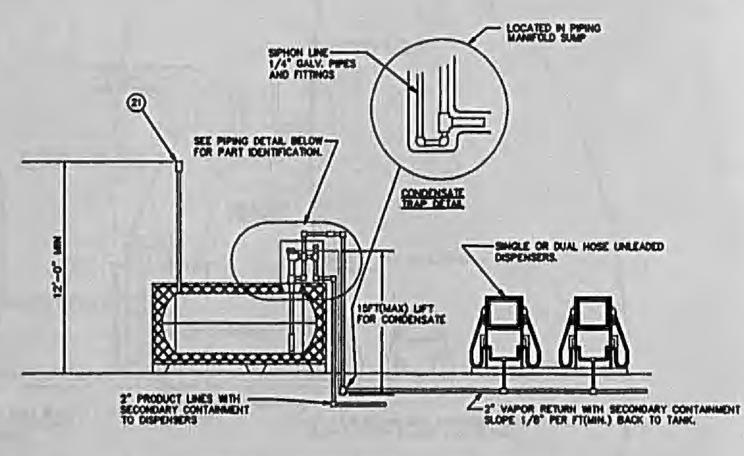


MONITORING WELL MANHOLE DETAIL
NOT TO SCALE

ABOVEGROUND VAPOR RECOVERY SYSTEM LEGEND			
ITEM	QTY.	DESCRIPTION	P/N
1	1	MINI-JET (FURNISHED BY GSA)	9000
2	1	3/4" 1P RED JACKET SUB. TURBINE PUMP	
3	1	RED JACKET LEAK DETECTOR	
4	1	RED JACKET TEE	
5	1	RED JACKET SYPHON CHECK	
6	1	1/4" BALL VALVE, UL LISTED, FLAMMABLE LIQUIDS	
7	1	1" BALL VALVE, UL LISTED FLAMMABLE LIQUIDS	
8	1	4" TEE (GALV.)	
9	1	2"X4" RED BUSHING (GALV.)	
10	1	2" TEE (GALV.)	
11	1	1/4"X6" RED BUSHING (GALV.)	
12	1	2" ELBOW (GALV.)	
13	1	UNIVERSAL CHECK VALVE #212. BPR.	
14	1	1" TEE (GALV.)	
15	1	1/4"X1" RED BUSHING (GALV.)	
16	1	1" ELBOW (GALV.)	
17	1	2"X4" NIPPLE (GALV.)	
18	1	1/4"X1" RED. BUSHING (GALV.)	
19	1	1"X2" RED. BUSHING (GALV.)	
20	1	2" UNION (GALV.)	
21	1	VENT VALVE	HPVV
22	1	1" PIPE PLUG (GALV.)	

GENERAL NOTES FOR VAPOR RECOVERY SYSTEM:

1. ALL PIPING AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS. METAL PIPE SHALL BE MINIMUM SCHEDULE 40 WELDED OR SEAMLESS STEEL PIPE PER ASTM A-53 GALVANIZED, AND FITTINGS SHALL BE A 541 MALLEABLE IRON, GALVANIZED. ALL NON-METALLIC PIPE AND FITTINGS SHALL BE UL LISTED.
2. VAPOR RETURN LINES AND VENT LINES TO BE 2" DIAMETER PIPE UNLESS OTHERWISE NOTED. SLOPE MUST BE MINIMUM 1/8" PER FOOT WITHOUT SAGS OR TRAPS, DRAINING UNIFORMLY TOWARD PRODUCT STORAGE TANK.
3. VENT LINES MUST BE SEPARATED BY PRODUCT.
4. VENT PIPES SHALL BE INSTALLED TO A MINIMUM HEIGHT OF 12 FEET ABOVE GRADE.
5. VAPOR RECOVERY EQUIPMENT TO BE INSTALLED IN ACCORDANCE WITH NFPA-10.



VAPOR RECOVERY SYSTEM
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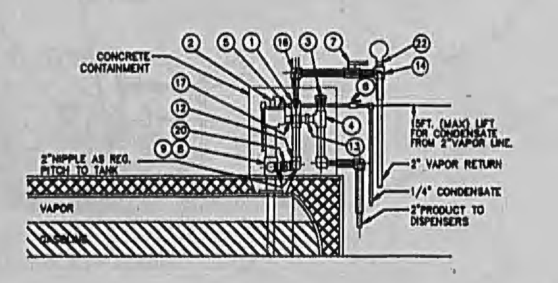
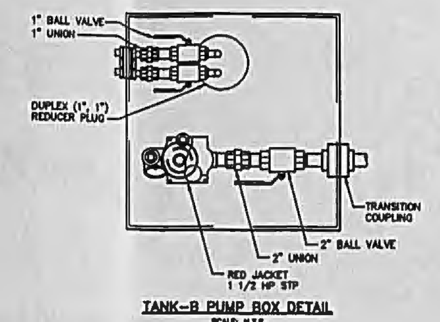


ABOVE GROUND VAPOR RECOVERY PIPING DETAIL FOR NO. 9000 HEALY MINI-JET
NOT TO SCALE



TANK-B PUMP BOX DETAIL
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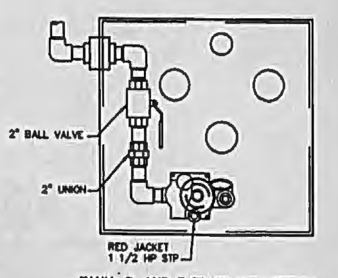
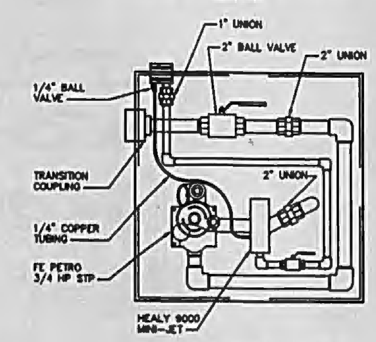
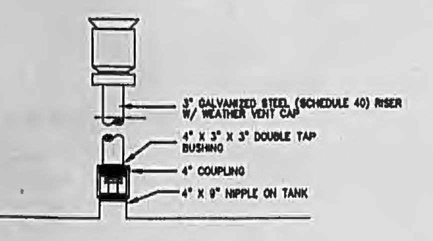


TANK-D AND E PUMP BOX DETAIL
SCALE: N.T.S.



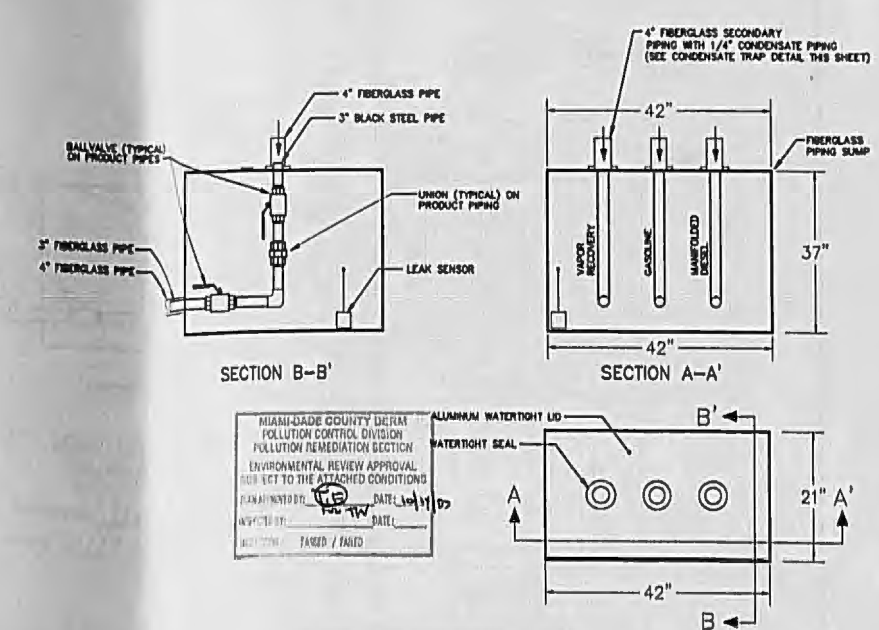
TANK-C PUMP BOX DETAIL
SCALE: N.T.S.

PUMP BOX DETAILS
NOT TO SCALE



VENT RISER DETAIL
NOT TO SCALE

EQUIPMENT SPECIFICATIONS		
EQUIPMENT	MAKE AND MODEL	ACCESSORIES / FEATURES
PRODUCT DISPENSERS (4) (2)	MODEL NO. 9153AXTW-1 SINGLE PRODUCT, DUAL HOSE-DIESEL GASBOY MODEL NO. 9153XTW-1 SINGLE PRODUCT, DUAL HOSE-UNLEADED	STANDARD CABINET FINISH LIGHTED PRODUCT PANEL AND REGISTER AREA STANDARD AUTOMATIC NOZZLE 1"X12' HOSE HOSE SWIVEL INTERNAL HOSE RETRACTOR INTERNAL STANDARD FLOW FILTER HIGH/LOW SLOWDOWN VALVE SHEAR VALVE 1" SOLENOID
SUBMERSIBLE TURBINE PUMP P-1 - 1.5 HP P-2 - 1.5 HP P-3 - 1.5 HP P-4 - (UNLEADED) 3/4 HP	RED JACKET PUMP MODEL NO. P150S1 MODEL NO. P150S1 MODEL NO. P150S1 FE PETRO - (FURNISHED BY GSA)	AIR ELIMINATOR CHECK VALVE EXPANSION RELIEF VALVE PRESSURE RELIEF VALVE TANK AND LINE TESTING PORTS SIPHON VALVE
FUEL MANAGEMENT SYSTEM	EJ WARD (FURNISHED BY GSA)	1. ON-LINE FUEL CONTROL TERMINAL-ONE 2. ACCESSORIES: A. STEEL CABINET AND PEDESTAL WITH CARD READER SYSTEM B. KEYPAD NUMERIC MEMBRANE AND NINE FUNCTION KEYS. C. 16-CHARACTER HIGH INTENSITY FLUORESCENT DISPLAY WITH TUNNEL VISOR. C. 20 VOLT AC LINE; 20 HZ.
VAPOR RECOVERY SYSTEM (HEALY ORVR)	HEALY MODEL NO.9000. VACUUM ASSIST	9000-01 HEALY MINI JET PUMP (FURNISHED BY GSA) 212VPR-20 2" VITON NIPPLE CHECK VALVE #100-705 1" BALL VALVE #100-701 1/4" BALL VALVE 038-072-5 LEAK DETECTOR TEE HOUSING HPVV PRESSURE/VACUUM VENT - 3" WC CX6-VV2AHEALY COAX HOSE ADAPTER FSMM-24-1 FIRESHIELD FLEX CONNECTOR 758-130-S2-Y-25 HEALY 12' COAXIAL HOSE/STD 400-02-FS-ORVR HEALY BLACK UNLEADED NOZZLE C25GB GASBOY NOZZLE HOOD KIT HEA 93928 PRESSURE SWITCH HEA 6280 SYSTEM MONITOR DISPLAY HEA 6275 VENT SENSOR MODULE HEA 6447 SYSTEM MONITOR CONTROL BOX HEA 9466 1" BACK PRESSURE CHECK VALVE ETC 30 BAL 3" B MALE COUPLER
MULTI TANK MONITORING SYS. GAUGING & LEAK DETECTION DIGITAL	VEEDER ROOT TLS-350 (TLS-350 CONSOLE FURNISHED BY GSA. PROBES, SENSORS, MODULES FURNISHED BY CONTRACTOR.)	1. TANK LEVEL TRANSMITTER ASSEMBLY SHALL BE DISCRIMINATING MAG-2 MAGNETOSTRICTIVE PROBE (MODEL # 847390-206) FOR USE WITH CORRESPONDING 4 PROBE INTERFACE MODULE (MODEL #847490-102) FOR TLS TANK MONITORING SYSTEM. THE LOWER LIMIT OF LEAK DETECTION SHALL BE 0.2 GALLONS PER HOUR (GPH) 2. INTERSITIAL LEAK SENSORS SHALL BE NON-DISCRIMINATING SENSORS (MODEL #790095-001) FOR USE WITH CORRESPONDING 8 INPUT INTERSTITIAL SENSOR INTERFACE MODULE (MODEL #329358-001) FOR VAULTED ABOVEGROUND TANKS. PIPING TRANSITION SUMP SHALL CONTAIN NON-DISCRIMINATING SUMP SENSOR (MODEL # 794390-420) FOR USE WITH CORRESPONDING INTERSTITIAL SENSOR INTERFACE MODULE. 3. REMOTE ALARM CONSOLE SHALL BE TLS-350 MONITORING SYSTEM (MODEL #847090-022). (FURNISHED BY GSA) 4. OVERFILL ALARM (MODEL #312020-952) TO PROVIDE AUDIBLE HORN AND FLASHING LIGHT TO PROVIDE AN EARLY WARNING OF POTENTIAL TANK DELIVERY OVERFILLS. ACKNOWLEDGEMENT SWITCH (MODEL #790091-001) TO TURN OFF ALARM AND ACTUATE ACKNOWLEDGEMENT LIGHT WHILE TLS-350 PRINTS INVENTORY INCREASE REPORT. BOTH ITEMS TO BE CONNECTED TO FOUR RELAY OUTPUT MODULE (MODEL #847490-104). ALL REQUIRED RISER KITS AND INSTALLATION KITS PROVIDED BY CONTRACTOR.
PRODUCT PIPING AND UNDERGROUND CONTAINMENT PIPING	SMITH FIBERGLASS RED THREAD IIA	FUEL PIPING SHALL BE OF THE SIZE INDICATED ON THE DRAWINGS AND SHALL BE OF THE RED THREAD IIA TYPE UL LISTED FIBERGLASS WITH PRESSURE TESTABLE AND MONITOR TYPE CONTAINMENT SYSTEM. ALL PIPING AND CONTAINMENT PIPING TO BE HYDROSTATICALLY TESTED AS PER UL STANDARDS. PIPING SHALL BE CONSTRUCTED OF EPOXY RESIN IN COMPLIANCE WITH ASTM. D2310 AND INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS.



PIPING TRANSITION SUMP
NOT TO SCALE

P: STD-PC2/DL
9/8/99 TAM-54-JAR, BOO-54-MJS
65612\65612M-6.DWG

Graphic Scale	No.	Date	Revisions	Init
NOT TO SCALE	1.	9/07/99	MODIFY MW DETAIL - SHOW 2' SOLID RISER	JAR

Project Mgr. ALEX SANCHEZ
Designed by ALEX SANCHEZ
Drawn by MICHAEL SCHOEDINGER
Checked by GABINO CUEVAS, P.E.
Prof. Eng. ALEX SANCHEZ
PE License #54637

#54637 9/7/99

BBL
ENVIRONMENTAL SERVICES, INC.
Remedial Action•Management and Construction

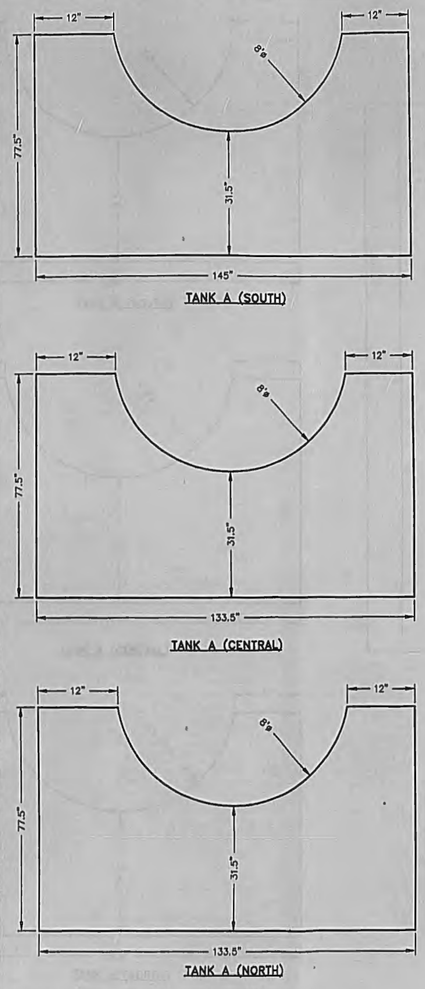
GENERAL SERVICES ADMINISTRATION
SHOP 3
NW 58TH STREET
FLORIDA 33166
CONSTRUCTION DRAWINGS

MECHANICAL DETAILS

File Number 656.12.009F
Date SEPTEMBER 1999
BBL Environmental Services, Inc.
7975 NW 154th St.
Suite 310
Miami Lakes, FL 33016
305-826-3353

M-6

6



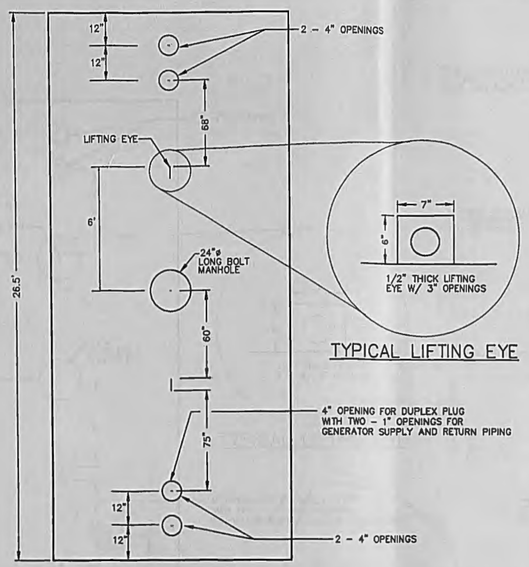
TANK A (SOUTH)

TANK A (CENTRAL)

TANK A (NORTH)

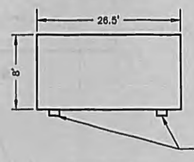
EXISTING TANK "A" CONCRETE CRADLES

NOTE: CONTRACTOR TO VERIFY CRADLES CAN ACCEPT TANK B PRIOR TO TRANSFER, ENSURE PLACEMENT OF TANK B IS LEVEL.

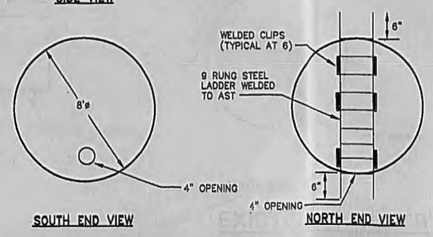


TYPICAL LIFTING EYE

TOP VIEW



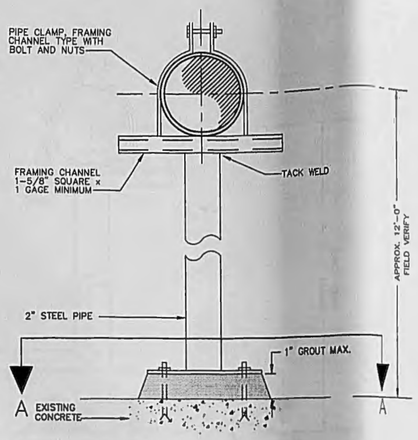
SIDE VIEW



SOUTH END VIEW NORTH END VIEW

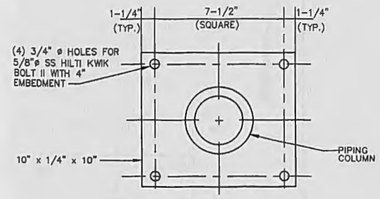
EXISTING TANK "B" - 10,000 GALLON SINGLE-WALL DIESEL AST DETAILS

NOTE: DIMENSIONS ARE APPROXIMATE



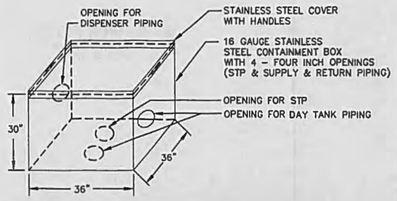
PIPE SUPPORT DETAIL

NOT TO SCALE



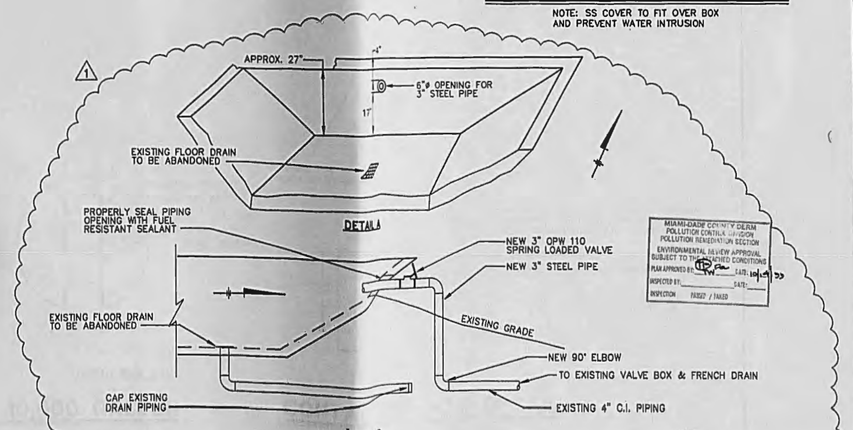
SECTION A-A

NOT TO SCALE



CONTAINMENT BOX DETAIL

NOTE: SS COVER TO FIT OVER BOX AND PREVENT WATER INTRUSION



SECONDARY CONTAINMENT SLAB MODIFICATIONS

NOT TO SCALE

NOTE: FILL IN EXISTING SECONDARY CONTAINMENT FLOOR DRAIN WITH CONCRETE AND ABANDON IN PLACE.

P: STD-PC2/DL
9/8/99 TAM-54-JAR, BOC-54-MJS
65612\65612M-7.DWG

Graphic Scale	No.	Date	Revisions	Init
NOT TO SCALE	1.	9/07/99	ADD TANK "B" SECONDARY CONTAINMENT DETAILS	JAR

Project Mgr.	ALEX SANCHEZ
Designed by	ALEX SANCHEZ
Drawn by	EMILE AMEDEE, A.D.A.
Checked by	GABINO CUEVAS
Prof. Engr.	ALEX SANCHEZ
P.E. License	#54037

STATE OF FLORIDA ALEX SANCHEZ 54037 1/9/99

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ENVIRONMENTAL SERVICES, INC.
Remedial Action+Management and Construction

GENERAL SERVICES ADMINISTRATION
SHOP 3
401 NW 68TH STREET
MIAMI, FLORIDA 33150
CONSTRUCTION DRAWINGS

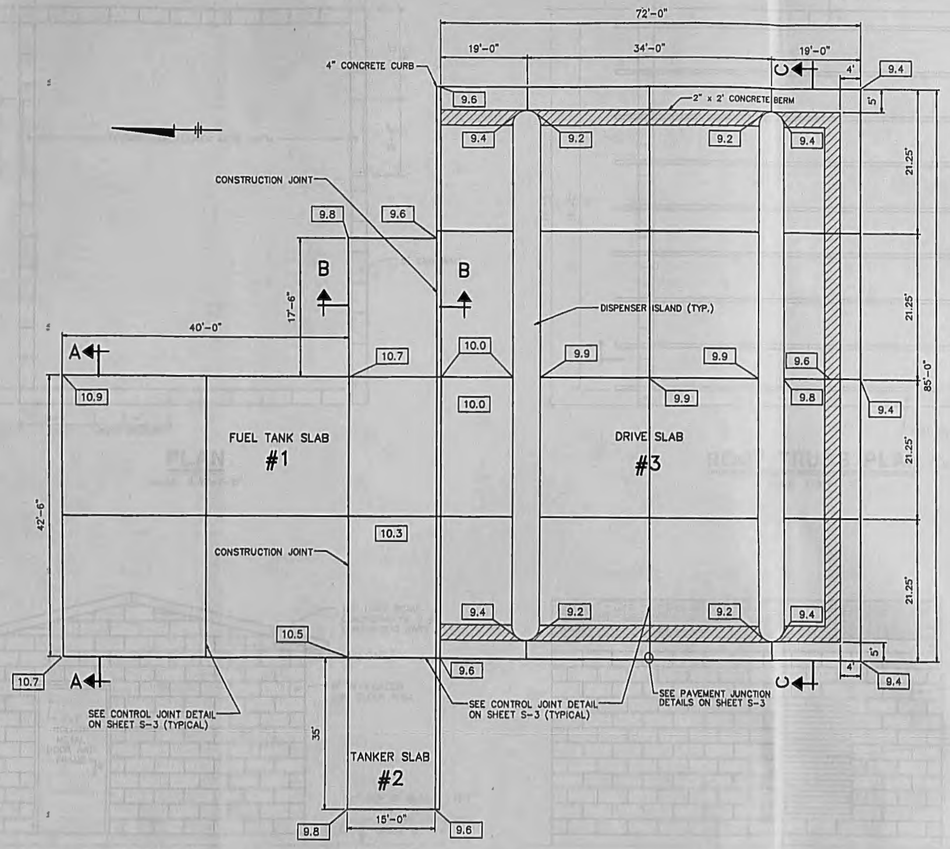
TANK "B" DETAILS

File Number 656.12.010F
Date SEPTEMBER 1999

BBL Environmental Services, Inc.
7975 NW 154th St.
Suite 310
Miami Lakes, FL 33016
305-828-3353

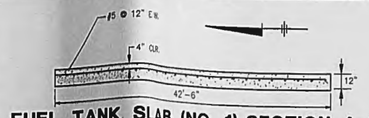
M-7

6



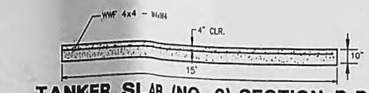
PARTIAL SITE PLAN STRUCTURAL LAYOUT

NOT TO SCALE



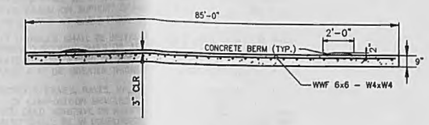
FUEL TANK SLAB (NO. 1)-SECTION A-A

NOT TO SCALE



TANKER SLAB (NO. 2)-SECTION B-B

NOT TO SCALE



DRIVE SLAB (NO. 3)-SECTION C-C

NOT TO SCALE

STRUCTURAL NOTES:

1. ALL CONCRETE SLABS TO HAVE 28 DAY COMPRESSIVE STRENGTH:
   f'c = 4,000 psi
2. REINFORCEMENT TO COMPLY WITH ASTM A-615 WITH A MINIMUM YIELD POINT:
   fy = 60 ksi
3. ALL WORK SHALL COMPLY WITH THE SOUTH FLORIDA BUILDING CODE, LATEST DADE COUNTY EDITION
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
   a. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH - 3 in.
   b. CONCRETE EXPOSED TO WEATHER
      No. 5 BAR AND SMALLER - 2 in. (MIN.)
5. ALL EXPOSED CONCRETE CORNERS TO HAVE 3/4" CHAMFER.
6. CONSTRUCTION OF SLABS WILL BE MADE IN ACCORDANCE WITH ACI REQUIREMENTS.
7. INSPECTION OF REINFORCED CONCRETE WILL BE MADE IN ACCORDANCE WITH ACI 311.
8. SAMPLES FOR STRENGTH OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 50 CUBIC YARDS OF CONCRETE, NOR LESS THAN ONCE FOR EACH 5000 SQUARE FEET OF SURFACE AREA FOR SLABS
9. STRENGTH LEVEL FOR AN INDIVIDUAL CLASS OF CONCRETE SHALL BE CONSIDERED SATISFACTORY IF BOTH OF THE FOLLOWING REQUIREMENTS ARE MET, WHEN
   a. AVERAGE OF ALL SETS OF THREE CONSECUTIVE STRENGTH TESTS EQUAL OR EXCEED f'c
   b. NO INDIVIDUAL STRENGTH TEST (AVERAGE OF TWO CYLINDERS) FALLS BELOW f'c BY MORE THAN 500 psi
10. FINISH FOR CONCRETE SLAB SHALL BE BROOM FINISH.
11. THE FUEL TANK MUST BE SET LEVEL, AS PER MANUFACTURER'S INSTRUCTIONS, SO THAT THE PRODUCT IN THE TANK REMAINS LEVEL.
12. CONTRACTOR TO VERIFY FIELD ELEVATIONS PRIOR TO POURING OF CONCRETE SLABS AND PLACEMENT OF ASPHALT AND ENSURE PROPER DRAINAGE IN SURROUNDING AREAS.

Pr: STD-PC2/DL
7/8/99 TAM-84-JAR, MJS
65812\65812S01.DWG

Graphic Scale	No.	Date	Revisions	Init
NOT TO SCALE				

Project Mgr.	ALEX SANCHEZ
Designed by	ALEX SANCHEZ
Drawn by	MICHAEL SCHOEDINGER
Checked by	WILLIAM HOPKINS
Prof. Eng.	SABINO GUEVARA, P.E.
PE License	#42530

7/9/99

BBL
ENVIRONMENTAL SERVICES, INC.
Remedial Action•Management and Construction

GENERAL SERVICES ADMINISTRATION
SHOR 3
8801 NW 58TH STREET
MIAMI, FLORIDA 33166
CONSTRUCTION DRAWINGS

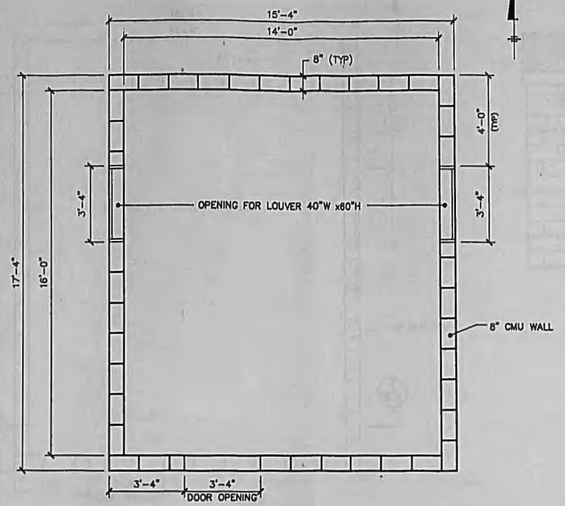
STRUCTURAL LAYOUT

File Number
656.12.011F

Date
JUNE 1999

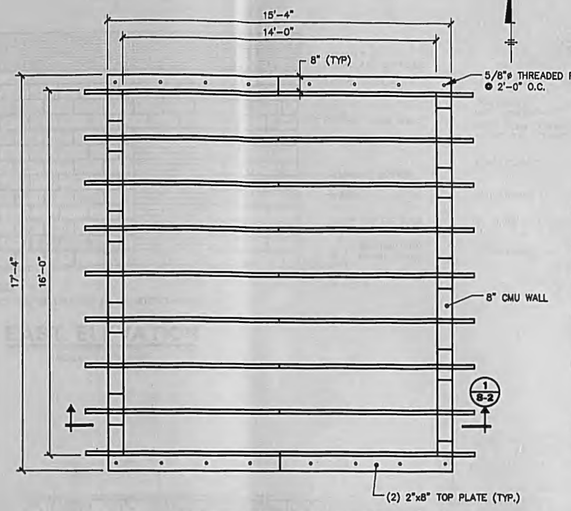
BBL Environmental Services, Inc.
7975 NW 154th St.
Suite 310
Miami Lakes, FL 33016
305-820-3353

S-1



PLAN

SCALE: 3/8"=1'-0"

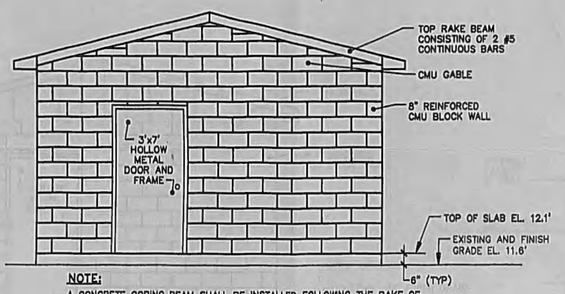


ROOF TRUSS PLAN ⚠

SCALE: 3/8"=1'-0"

NOTES: ⚠

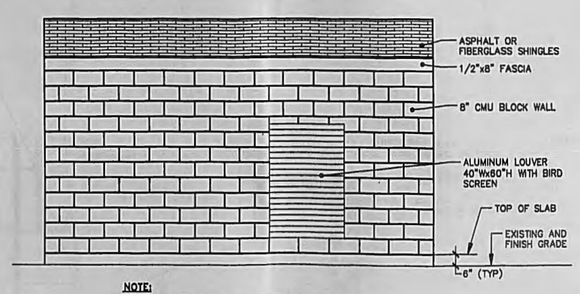
1. PLYWOOD ROOF SHEATHING SHALL BE 19/32" MINIMUM THICKNESS AND SHALL BE CONTINUOUS OVER TWO OR MORE SPANS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
2. PLYWOOD PANELS SHALL BE NAILED TO SUPPORTS WITH 8D COMMON NAILS FOR 19/32" TO 7/8" THICKNESSES.
3. NAIL SPACING SHALL BE 6" ON CENTER AT PANEL EDGES AT INTERMEDIATE SUPPORTS, BASED ON SUPPORT SPACING OF 24" O.C. NAIL SPACING SHALL BE 4" ON CENTER AT GABLE ENDS, IN ALL CASES.
4. ASPHALT SHINGLES SHALL BE INSTALLED BUT IN NO CASE WITH LESS THAN SIX APPROVED ROOFING NAILS OR APPROVED FASTENING DEVICES WHICH PENETRATE THE SHEATHING OR WOOD PLANK A MINIMUM OF 3/16" OR PENETRATE A 1" OR GREATER THICKNESS OF LUMBER A MINIMUM OF 1".
5. INTERSECTIONS, EAVES, RAKES, VALLEYS, GABLE ENDS, AND THE STARTER COURSE OF COMPOSITION SHINGLES SHALL BE SET IN AN 8" WIDE OF APPROVED COLD ADHESIVE OR ROOFING CEMENT. APPLICATION OF ADHESIVE OR CEMENT SHALL BE IN COMPLIANCE WITH THE APPLICATION INSTRUCTIONS OF THE ROOFING COMPONENT PRODUCT CONTROL APPROVAL.
6. 5/8"ø THREADED RODS SHALL BE BUTT WELDED TO #5 BARS WITHIN CMU WALL ON THE GABLE ENDS ONLY AND EXTEND THROUGH CMU GABLE AND RAKE BEAM TO ANCHOR TOP PLATE.
7. ANCHOR BOLTS SHALL BE SPACED 2'-0" O.C. AND COUNTERSUNK INTO TOP PLATE.



NOTE:
A CONCRETE COPING BEAM SHALL BE INSTALLED FOLLOWING THE RAKE OF THE GABLE REINFORCED WITH 2 #5 SHALL BE PROVIDED.

SOUTH ELEVATION ⚠

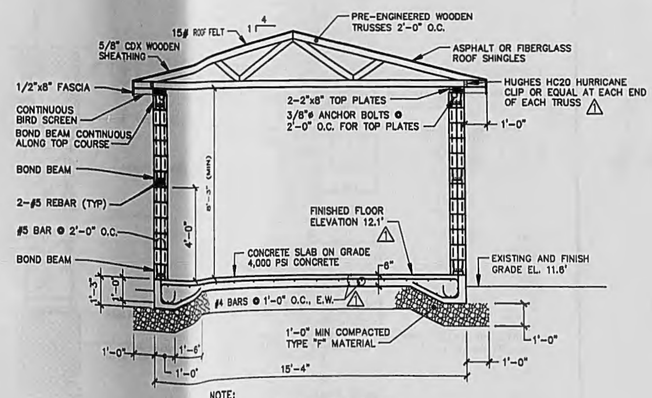
SCALE: 3/8"=1'-0"



NOTE:
LOCATION OF LOUVERS TO BE VERIFIED IN FIELD.

EAST ELEVATION

SCALE: 3/8"=1'-0"



NOTE:
DESIGN WIND UPLIFT PRESSURE IS 50 PSF.

SECTION 1/S-2

SCALE: 3/8"=1'-0"

L: ON=*, OFF=REF
P: CONT-DJD/CONT-MVB
8/31/99 BTR-S4=GMS DGG GMS
65512100/65512502.DWG

Graphic Scale	No.	Date	Revisions	Init
3/8"=1'-0" 2' 0 3' 6'	⚠	8/30/99	GENERAL REVISIONS	

Project Mgr.	AES
Designed by	WRH/JDS
Drawn by	GMS
Checked by	WRH/JDS
Prof. Eng.	GABINO BEVIA, P.E.
PE License	42650 54437

Gabino E. Bevia 41542437 9/9/99

BBL
ENVIRONMENTAL SERVICES, INC.
Remedial Action•Management and Construction

GENERAL SERVICES ADMINISTRATION
SHOP 3
8801 N.W. 58TH STREET
MIAMI, FLORIDA 33166
CONSTRUCTION DRAWINGS

ELECTRICAL BUILDING DESIGN

File Number 656.12.012F
Date AUGUST 1999

BBL Environmental Services, Inc.
Suite 310
7975 N.W. 154th Street
Miami Lakes, FL 33016-5949
305-828-3353

S-2

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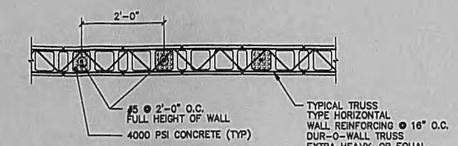
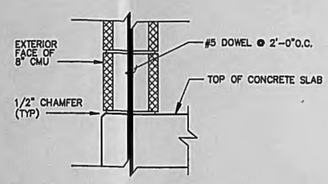


NOTES:

1. HORIZONTAL CMU WALL REINFORCEMENT SHALL BE HOT DIPPED GALVANIZED.
2. OPENINGS BETWEEN 3 AND 8 FEET IN WIDTH SHALL HAVE ONE #5 VERTICAL REINFORCING BAR AT EACH SIDE. THE VERTICAL BARS SHALL BE PLACED IN CONCRETE FILLED CELLS AND SHALL EXTEND INTO FOOTINGS AND INTO TIE BEAM WITH A MINIMUM SPLICE OF 30".
3. ALL CONCRETE MASONRY UNITS USED IN EXTERIOR WALLS SHALL CONTAIN THE MANUFACTURER'S RECOMMENDED AMOUNT OF INTEGRAL WATER REPELLENT, DRY BLOCK BY W.R. GRACE, OR EQUAL.

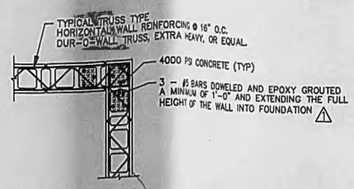
CMU WALL DETAIL

SCALE: 3/4"=1'-0"



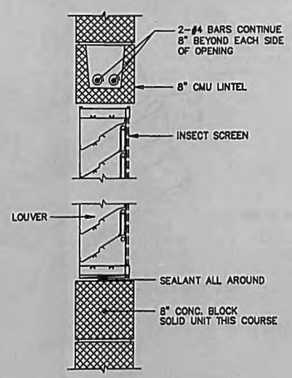
CHAMFER DETAIL

SCALE: 1-1/2"=1'-0"



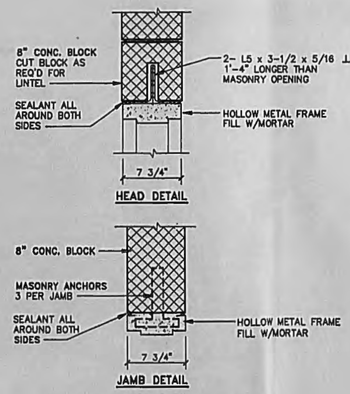
CMU CORNER & TIE COLUMN DETAIL

SCALE: 3/4"=1'-0"



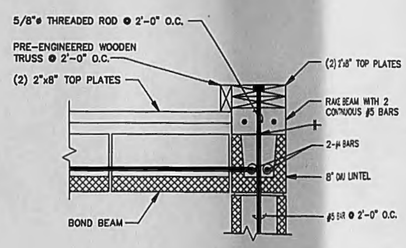
LOUVER DETAIL

SCALE: 1-1/2" = 1'-0"



DOOR DETAILS

SCALE: 1-1/2" = 1'-0"



RAKE BEAM DETAIL ⚠

SCALE: 1-1/2" = 1'-0"

LI ON=*, OFF=REF
PI CONT-OJD/CONT-MVB
8/31/99 SVR-54-DMB DOO DMB
65512100/65612603.DWG

Graphic Scale
3/4"=1'-0" 2" 1' 0 1' 2'
1 1/2"=1'-0" 1' 6" 0 1' 1'

No.	Date	Revisions	Init.
⚠	8/30/99	GENERAL REVISIONS	

Project Mgr.	AES
Designed by	WRH/JDS
Drawn by	GMS
Checked by	WRH/JDS
Prof. Eng.	SABINO CUEVAS, P.E.
PE License	42830 9/4/99

41154639
7/1/99

BBL
ENVIRONMENTAL SERVICES, INC.
Remedial Action+Management and Construction

GENERAL SERVICES ADMINISTRATION
SHOP 3
6801 NW 58TH STREET
MIAMI, FLORIDA 33166
CONSTRUCTION DRAWINGS

STRUCTURAL DETAILS

File Number
655.12.013F

Date
AUGUST 1999

BBL Environmental Services, Inc.
Suite 310
7975 N.W. 154th Street
Miami Lakes, FL 33016-6549
305-828-3353

S-3

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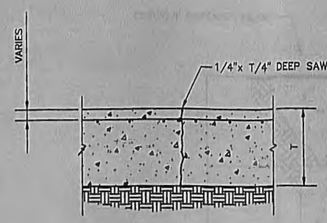
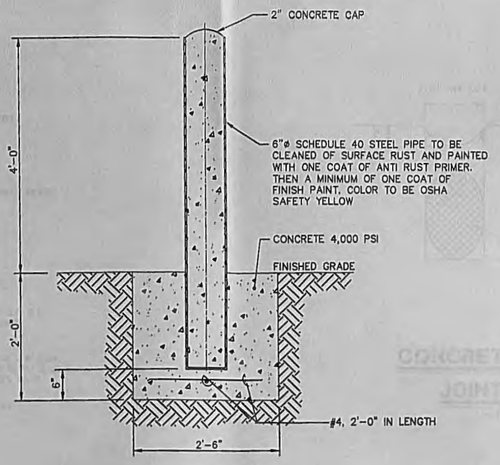


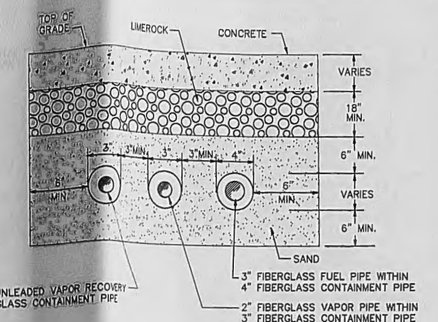
CONTROL JOINT DETAIL

NOT TO SCALE



TYPICAL BOLLARD DETAIL

NOT TO SCALE



PIPE BEDDING DETAIL

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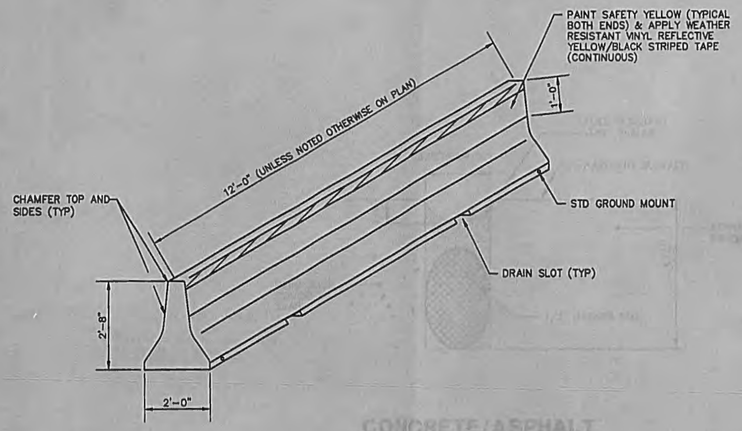

PERMANENT PRECAST CONCRETE BARRIER

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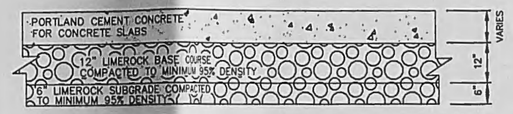
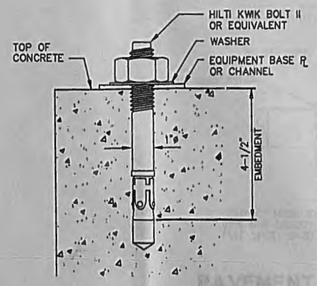


SUBGRADE DETAIL FOR REINFORCED CONCRETE PAVEMENT

NOT TO SCALE



ABOVEGROUND TANK EXPANSION ANCHOR DETAIL

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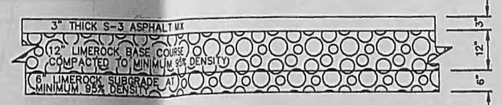


SUBGRADE DETAIL FOR ASPHALT PAVEMENT

NOT TO SCALE

9/7/99 MIA-04 MJS
D:\-DATA\YR_1999\65612\65612S-3.DWG

Graphic Scale	No.	Date	Revisions	Init.	Project Mgr. ALEX SANCHEZ
NOT TO SCALE					Designed by ALEX SANCHEZ
					Drawn by MICHAEL SCHOEDINGER
					Checked by WILLIAM HOPKINS
					Prof. Eng. ALEX SANCHEZ, P.E.
					PE License #54927

9/9/99

BBL
ENVIRONMENTAL SERVICES, INC.
Remedial Action • Management and Construction

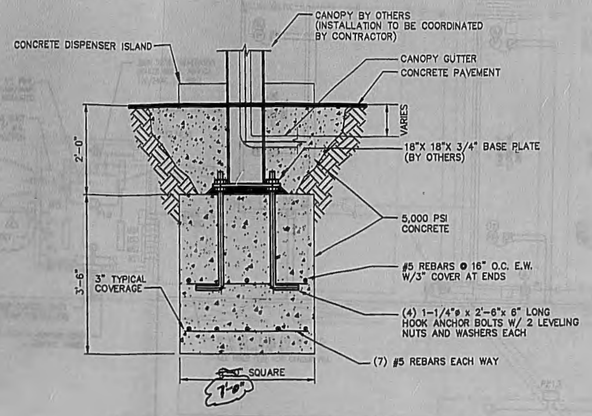
GENERAL SERVICES ADMINISTRATION
SHOP 3
8801 NW 58th STREET
MIAMI, FLORIDA 33166

CONSTRUCTION DRAWINGS
STRUCTURAL DETAILS

File Number
65612.013F
Date
SEPTEMBER 1999

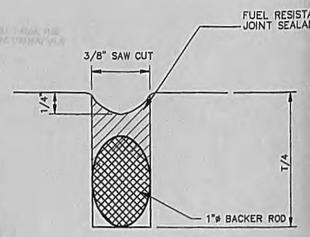
BBL Environmental Services, Inc.
7975 NW 154th STREET
SUITE 310
Miami Lakes, FL 33016
(305) 828-3353

S-4



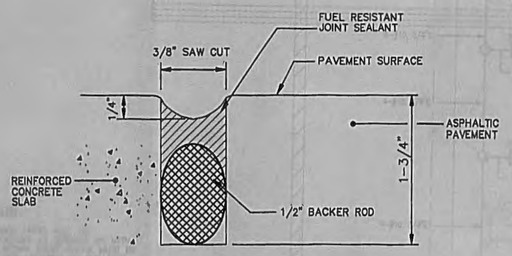
TYPICAL FOOTING DETAIL

NOT TO SCALE



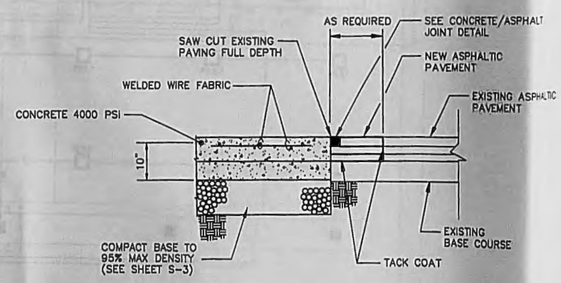
CONCRETE/CONCRETE JOINT DETAIL

NOT TO SCALE



CONCRETE/ASPHALT JOINT DETAIL

NOT TO SCALE

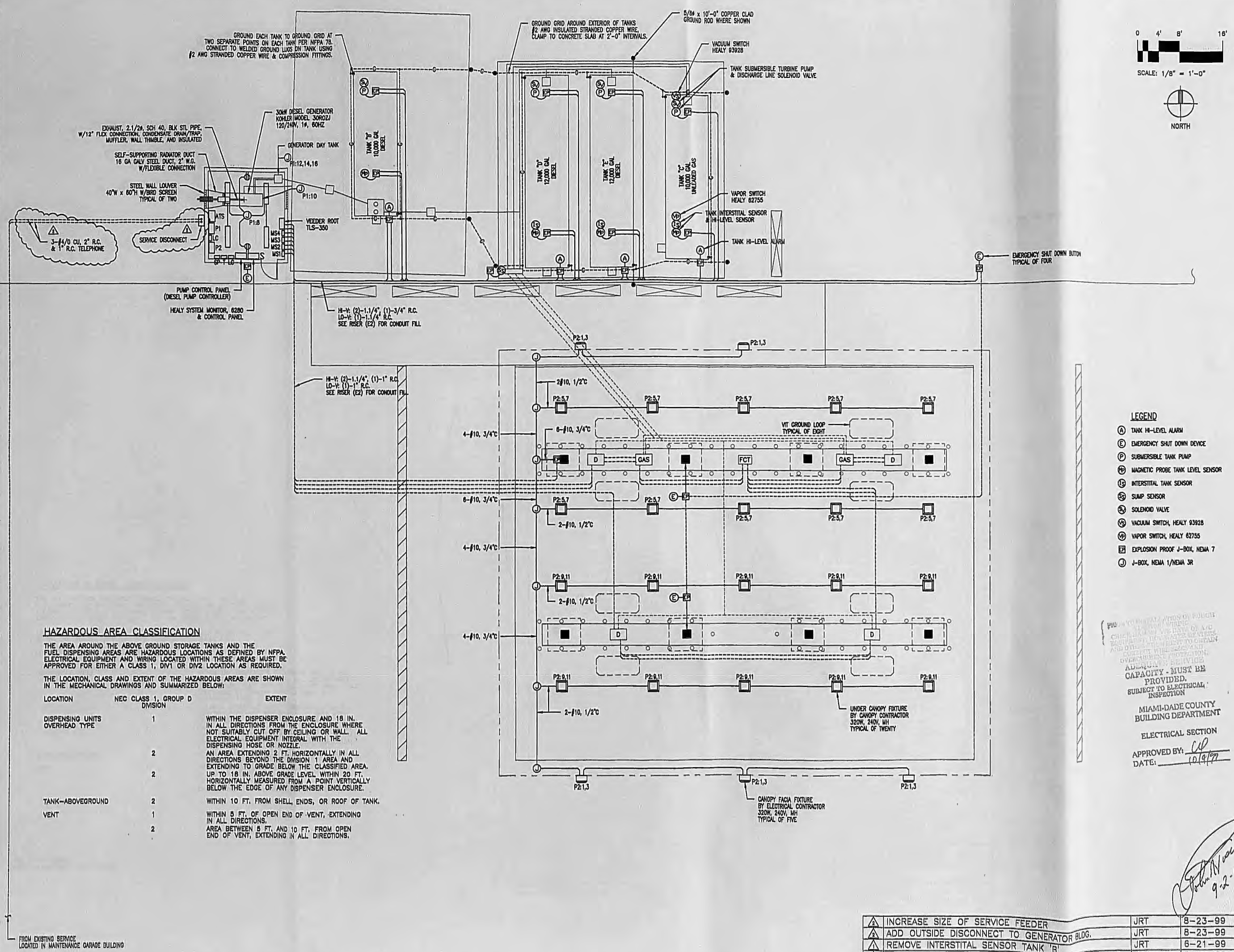


PAVEMENT JUNCTION OF NEW CONCRETE AND EXISTING ASPHALT PAVEMENT

NOT TO SCALE

9/07/99 MIA-54 MJS
C:\-DATA\YR_1999\65612/65612S-4.DWG

Graphic Scale	No.	Date	Revisions	Init.	Project Mgr. __ ALEX SANCHEZ Designed by __ ALEX SANCHEZ Drawn by MICHAEL SCHOEDINGER Checked by GABINO CUEVAS, P.E. Prof. Eng. ALEX SANCHEZ, P.E. PE License ____ # 54637	Alex E. Sanchez #54637 9/9/99	BBL ENVIRONMENTAL SERVICES, INC. Remedial Action+Management and Construction	GENERAL SERVICES ADMINISTRATION SHOP 3 8801 NW 58TH STREET MIAMI, FLORIDA 33166 CONSTRUCTION DRAWINGS **CONCRETE SECTIONS AND DETAILS**	File Number 65612.014F Date SEPTEMBER 1999 BBL Environmental Services, Inc. 7975 NW 154th STREET SUITE 310 Miami Lakes, FL 33016 (305) 828-3353	S-5
NOT TO SCALE									



HAZARDOUS AREA CLASSIFICATION

THE AREA AROUND THE ABOVE GROUND STORAGE TANKS AND THE FUEL DISPENSING AREAS ARE HAZARDOUS LOCATIONS AS DEFINED BY NFPA. ELECTRICAL EQUIPMENT AND WIRING LOCATED WITHIN THESE AREAS MUST BE APPROVED FOR EITHER A CLASS 1, DIV1 OR DIV2 LOCATION AS REQUIRED.

THE LOCATION, CLASS AND EXTENT OF THE HAZARDOUS AREAS ARE SHOWN IN THE MECHANICAL DRAWINGS AND SUMMARIZED BELOW:

LOCATION	NEC CLASS 1, GROUP D DIVISION	EXTENT
DISPENSING UNITS OVERHEAD TYPE	1	WITHIN THE DISPENSER ENCLOSURE AND 18 IN. IN ALL DIRECTIONS FROM THE ENCLOSURE WHERE NOT SUITABLY CUT OFF BY CEILING OR WALL. ALL ELECTRICAL EQUIPMENT INTEGRAL WITH THE DISPENSING HOSE OR NOZZLE.
	2	AN AREA EXTENDING 2 FT. HORIZONTALLY IN ALL DIRECTIONS BEYOND THE DIVISION 1 AREA AND EXTENDING TO GRADE BELOW THE CLASSIFIED AREA.
	2	UP TO 18 IN. ABOVE GRADE LEVEL WITHIN 20 FT. HORIZONTALLY MEASURED FROM A POINT VERTICALLY BELOW THE EDGE OF ANY DISPENSER ENCLOSURE.
TANK–ABOVEGROUND	2	WITHIN 10 FT. FROM SHELL, ENDS, OR ROOF OF TANK.
VENT	1	WITHIN 5 FT. OF OPEN END OF VENT, EXTENDING IN ALL DIRECTIONS.
	2	AREA BETWEEN 5 FT. AND 10 FT. FROM OPEN END OF VENT, EXTENDING IN ALL DIRECTIONS.

LEGEND

- (A) TANK HI-LEVEL ALARM
- (E) EMERGENCY SHUT DOWN DEVICE
- (P) SUBMERSIBLE TANK PUMP
- (MP) MAGNETIC PROBE TANK LEVEL SENSOR
- (IS) INTERSTITIAL TANK SENSOR
- (SS) SUMP SENSOR
- (SV) SOLENOID VALVE
- (VS) VACUUM SWITCH, HEALY 93928
- (VP) VAPOR SWITCH, HEALY 62755
- (EP) EXPLOSION PROOF J-BOX, NEMA 7
- (J) J-BOX, NEMA 1/NEMA 3R

ADEQUACY - MUST BE PROVIDED. SUBJECT TO ELECTRICAL INSPECTION
MIAMI-DADE COUNTY BUILDING DEPARTMENT
ELECTRICAL SECTION
APPROVED BY: CP
DATE: 10/9/99

9-2-99

2	INCREASE SIZE OF SERVICE FEEDER	JRT	8-23-99
2	ADD OUTSIDE DISCONNECT TO GENERATOR BLDG.	JRT	8-23-99
1	REMOVE INTERSTITAL SENSOR TANK 'B'	JRT	6-21-99
1	REVISE SITE PLAN, ADD HEALY, ADD FUEL LINE VALVES	JRT	6-21-99

JOHN R. TOSCANO, INC.
CONSULTING ENGINEERS
2751 NE 9th Street/Pompano Beach, FL 33062/(954) 946-0032
25055 LaLoma Drive/Los Altos Hills, CA 94022/(650) 917-0873

Office: (954) 462-2920
Fax: (954) 462-2921
ATTAWAY SERVICES, INC.
Electrical\Mechanical Contractors
P.O. Box 460103
Ft. Lauderdale, FL 33346-0130

JOHN R. TOSCANO, P.E.
Florida License Number: 33756
California License Number: M028749
Mechanical Engineer
Member of Broward County Board of Rules and Appeals:
Electrical Committee: 1994, 1995
Fire Code Committee: 1994, 1995, 1996
Professional Society Memberships:
American Society of Heating, Refrigeration, and Air-Conditioning Engineers, ASHRAE
National Fire Protection Association, N.F.P.A.
American Concrete Institute, A.C.I.

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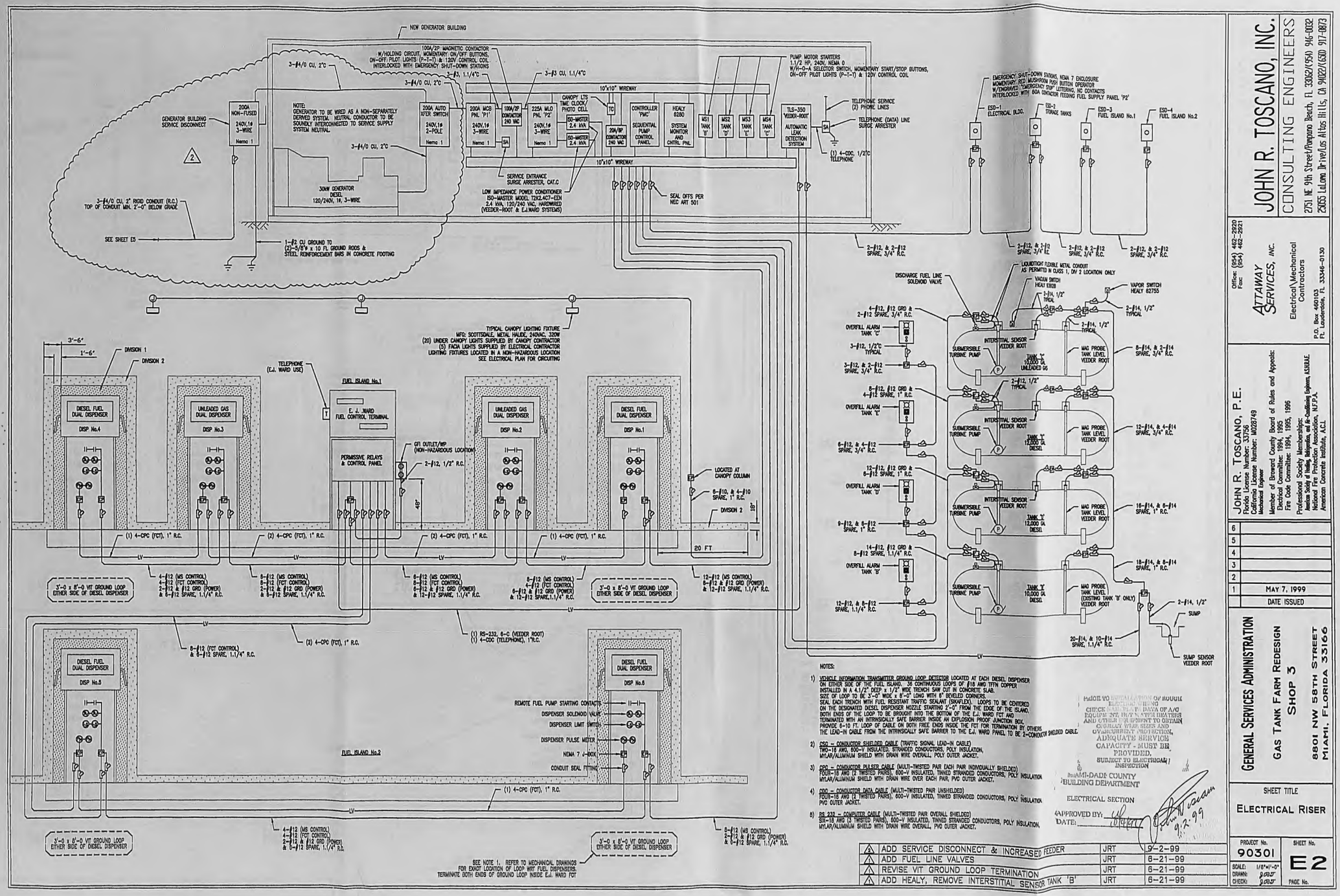
5	
4	
3	
2	
1	MAY 7, 1999
	DATE ISSUED

GENERAL SERVICES ADMINISTRATION
GAS TANK FARM REDESIGN
SHOP 3
8801 NW 58TH STREET
MIAMI, FLORIDA 33166

SHEET TITLE
ELECTRICAL PLAN

PROJECT No. 90301
SHEET No. E1
SCALE: 1/8"=1'-0"
DRAWN: JRT
CHECK: JRT
PAGE No.

6



NOTES:

1) VEHICLE INFORMATION TRANSMITTER GROUND LOOP DETECTOR LOCATED AT EACH DIESEL DISPENSER ON EITHER SIDE OF THE FUEL ISLAND. 36 CONTINUOUS LOOPS OF #18 AWG TFFN COPPER INSTALLED IN A 4.1/2" DEEP x 1/2" WIDE TRENCH SAW CUT IN CONCRETE SLAB. SIZE OF LOOP TO BE 3'-0" WIDE x 8'-0" LONG WITH 6" BEVELED CORNERS. SEAL EACH TRENCH WITH FUEL RESISTANT TRAFFIC SEALANT (SIKAFLEX). LOOPS TO BE CENTERED ON THE DESIGNATED DIESEL DISPENSER NOZZLE STARTING 2'-0" FROM THE EDGE OF THE ISLAND. BOTH ENDS OF THE LOOP TO BE BROUGHT INTO THE BOTTOM OF THE E.J. WARD FCT AND TERMINATED WITH AN INTRINSICALLY SAFE BARRIER INSIDE AN EXPLOSION PROOF JUNCTION BOX. PROVIDE 6-10 FT. LOOP OF CABLE ON BOTH FREE ENDS INSIDE THE FCT FOR TERMINATION BY OTHERS THE LEAD-IN CABLE FROM THE INTRINSICALLY SAFE BARRIER TO THE E.J. WARD PANEL TO BE 2-CONDUCTOR SHIELDED CABLE.

2) CSC - CONDUCTOR SHIELDED CABLE (TRAFFIC SIGNAL LEAD-IN CABLE) TWO-18 AWG, 600-V INSULATED, STRANDED CONDUCTORS, POLY INSULATION, MYLAR/ALUMINUM SHIELD WITH DRAIN WIRE OVERALL, POLY OUTER JACKET.

3) CPC - CONDUCTOR PULSER CABLE (MULTI-TWISTED PAIR EACH PAIR INDIVIDUALLY SHIELDED) FOUR-18 AWG (2 TWISTED PAIRS), 600-V INSULATED, TINNED STRANDED CONDUCTORS, POLY INSULATION MYLAR/ALUMINUM SHIELD WITH DRAIN WIRE OVER EACH PAIR, PVC OUTER JACKET.

4) CDC - CONDUCTOR DATA CABLE (MULTI-TWISTED PAIR UNSHIELDED) FOUR-18 AWG (2 TWISTED PAIRS), 600-V INSULATED, TINNED STRANDED CONDUCTORS, POLY INSULATION PVC OUTER JACKET.

5) RS 232 - COMPUTER CABLE (MULTI-TWISTED PAIR OVERALL SHIELDED) SIX-18 AWG (3 TWISTED PAIRS), 600-V INSULATED, TINNED STRANDED CONDUCTORS, POLY INSULATION, MYLAR/ALUMINUM SHIELD WITH DRAIN WIRE OVERALL, PVC OUTER JACKET.

PRIOR TO INSTALLATION OF ROUGH ELECTRICAL WIRING CHECK WITH FACT. DAVA OF A/C EQUIPM. SIZE HOOK-UP REQUIREMENTS AND OTHER EQUIPMENT TO OBTAIN CORRECT WIRE SIZES AND OVERCURRENT PROTECTION. ADEQUATE SERVICE CAPACITY - MUST BE PROVIDED, SUBJECT TO ELECTRICAL INSPECTION

MIAMI-DADE COUNTY BUILDING DEPARTMENT

ELECTRICAL SECTION

APPROVED BY: [signature]
DATE: 9.2.99

4	ADD SERVICE DISCONNECT & INCREASED FEEDER	JRT	9-2-99
3	ADD FUEL LINE VALVES	JRT	6-21-99
2	REVISE VIT GROUND LOOP TERMINATION	JRT	6-21-99
1	ADD HEALY, REMOVE INTERSTITIAL SENSOR TANK 'B'	JRT	6-21-99

JOHN R. TOSCANO, INC.
CONSULTING ENGINEERS
2751 NE 9th Street/Pompano Beach, FL 33062/(954) 946-0032
25055 LaLoma Drive/Los Altos Hills, CA 94022/(650) 917-8873

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Member of Broward County Board of Rules and Appeals:
Electrical Committee: 1994, 1995
Fire Code Committee: 1994, 1995, 1996
Professional Society Memberships:
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National Fire Protection Association, N.F.P.A.
American Concrete Institute, A.C.I.

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1	MAY 7, 1999
	DATE ISSUED

GENERAL SERVICES ADMINISTRATION
GAS TANK FARM REDESIGN
SHOP 3
8801 NW 58TH STREET
MIAMI, FLORIDA 33166

SHEET TITLE
ELECTRICAL RISER

PROJECT No. 90301
SHEET No. E2
SCALE: 1/8"=1'-0"
DRAWN: JRT
CHECK: JRT
PAGE No.

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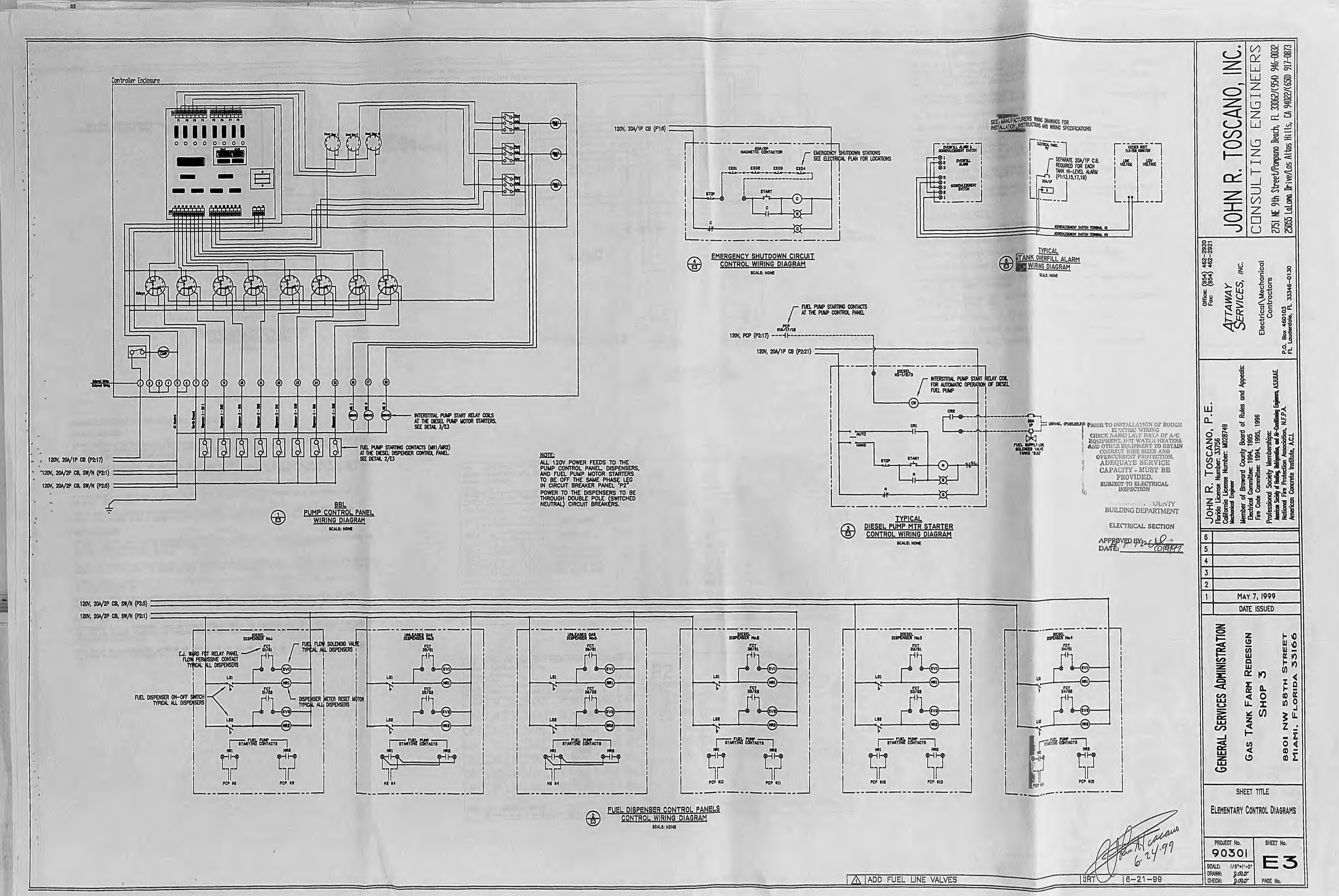
Controller Enclosure
120V, 20A/1P CB (P1:6)
EMERGENCY SHUTDOWN STATIONS SEE ELECTRICAL PLAN FOR LOCATIONS
EMERGENCY SHUTDOWN CIRCUIT CONTROL WIRING DIAGRAM
SCALE: NONE
SEE MANUFACTURERS WIRING DRAWINGS FOR INSTALLATION INSTRUCTIONS AND WIRING SPECIFICATIONS
SEPARATE 20A/1P C.B. REQUIRED FOR EACH TANK HI-LEVEL ALARM
TYPICAL TANK OVERFILL ALARM WIRING DIAGRAM
SCALE: NONE
FUEL PUMP STARTING CONTACTS AT THE PUMP CONTROL PANEL
120V, PCP (P2:17)
120V, 20A/1P CB (P2:21)
INTERSTITIAL PUMP START RELAY COIL FOR AUTOMATIC OPERATION OF DIESEL FUEL PUMP
TYPICAL DIESEL PUMP MTR STARTER CONTROL WIRING DIAGRAM
SCALE: NONE
INTERSTITIAL PUMP START RELAY COILS AT THE DIESEL PUMP MOTOR STARTERS. SEE DETAIL 3/E3
FUEL PUMP STARTING CONTACTS (MR1/MR2) AT THE DIESEL DISPENSER CONTROL PANEL. SEE DETAIL 2/E3
120V, 20A/1P CB (P2:17)
120V, 20A/2P CB, SW/N (P2:1)
120V, 20A/2P CB, SW/N (P2:5)
BBL PUMP CONTROL PANEL WIRING DIAGRAM
SCALE: NONE
NOTE: ALL 120V POWER FEEDS TO THE PUMP CONTROL PANEL, DISPENSERS, AND FUEL PUMP MOTOR STARTERS TO BE OFF THE SAME PHASE LEG IN CIRCUIT BREAKER PANEL "P2". POWER TO THE DISPENSERS TO BE THROUGH DOUBLE POLE (SWITCHED NEUTRAL) CIRCUIT BREAKERS.
PRIOR TO INSTALLATION OF ROUGH ELECTRIC WIRING CHECK NAME PLATE DATA OF A/C EQUIPMENT, HOT WATER HEATERS AND OTHER EQUIPMENT TO OBTAIN CORRECT WIRE SIZES AND OVERCURRENT PROTECTION. ADEQUATE SERVICE CAPACITY - MUST BE PROVIDED. SUBJECT TO ELECTRICAL INSPECTION
COUNTY BUILDING DEPARTMENT
ELECTRICAL SECTION
APPROVED BY:
DATE:
E.J. WARD FCT RELAY PANEL FLOW PERMISSIVE CONTACT TYPICAL ALL DISPENSERS
FUEL FLOW SOLENOID VALVE TYPICAL ALL DISPENSERS
FUEL DISPENSER ON-OFF SWITCH TYPICAL ALL DISPENSERS
DISPENSER METER RESET MOTOR TYPICAL ALL DISPENSERS
FUEL DISPENSER CONTROL PANELS CONTROL WIRING DIAGRAM
SCALE: NONE
ADD FUEL LINE VALVES
6-21-99
6-24-99
JOHN R. TOSCANO, INC.
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JOHN R. TOSCANO, P.E.
Florida License Number: 33756
California License Number: M028749
Mechanical Engineer
MAY 7, 1999
DATE ISSUED
GENERAL SERVICES ADMINISTRATION
GAS TANK FARM REDESIGN
SHOP 3
8801 NW 58TH STREET
MIAMI, FLORIDA 33166
SHEET TITLE
ELEMENTARY CONTROL DIAGRAMS
PROJECT No.
90301
SHEET No.
E3

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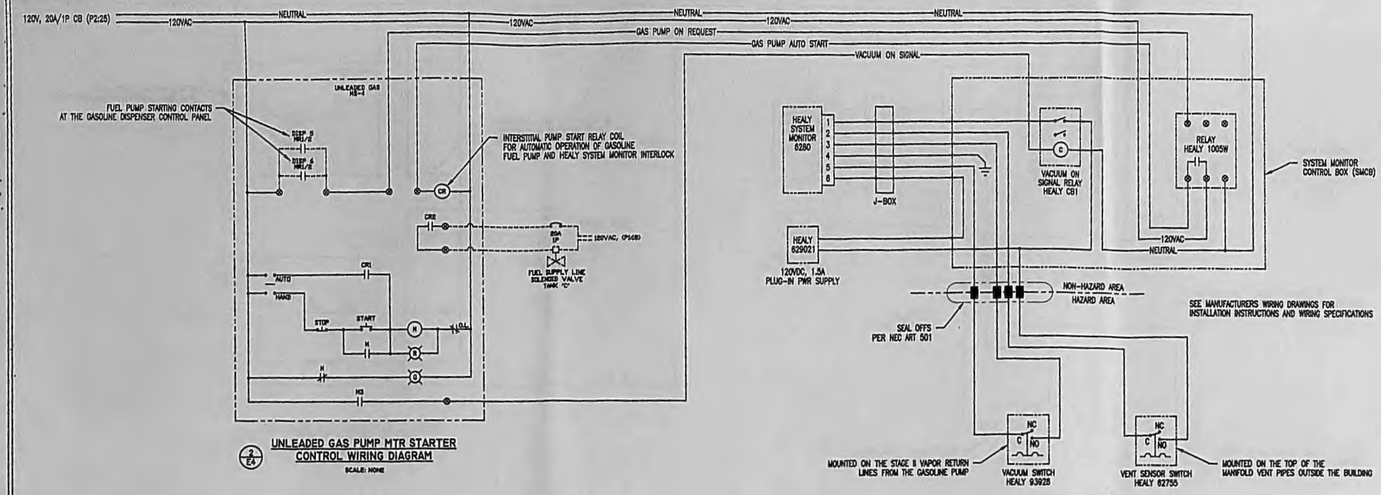

2/E4 UNLEADED GAS PUMP MTR STARTER CONTROL WIRING DIAGRAM
SCALE: NONE

1/E4 HEALY VAPOR SYSTEM CONTROL WIRING DIAGRAM
SCALE: NONE

GENERAL NOTES:

DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE DRAWING FOR EXACT LOCATIONS OF EQUIPMENT, CONDUITS, ETC. THESE DRAWINGS ARE NOT INTENDED TO SHOW EVERY MINOR DETAIL, BUT THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND ACCEPTABLE WORKING INSTALLATION.

ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE NATIONAL, STATE, AND LOCAL CODES, RULES, AND REGULATIONS.

ALL MATERIAL SHALL BE NEW AND BEAR THE UL LABEL WHERE APPLICABLE.

EACH SUBCONTRACTOR SHALL COORDINATE HIS WORK WITH THE OTHER TRADES.

EACH SUBCONTRACTOR SHALL VISIT THE SITE AND DETERMINE THE SCOPE OF WORK. ALL WORK REQUIRED TO ASSEMBLE, INSTALL AND STARTUP THE EQUIPMENT IN ACCORDANCE WITH THE OWNER'S AND MANUFACTURER'S REQUIREMENTS. SHALL BE INCLUDED IN THE SCOPE OF WORK.

ALL NEW EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS.

CONTRACTOR TO INSURE THAT PROPER CLEARANCE IS PROVIDED ALL AROUND NEW EQUIPMENT FOR SERVICING AND REPLACEMENT AS PER MANUFACTURER'S RECOMMENDATIONS.

ELECTRICAL NOTES:

INSTALLATIONS SHALL BE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

EQUIPMENT VOLTAGES SHALL BE VERIFIED PRIOR TO ANY INSTALLATION.

ALL WIRE TO BE COPPER THHN/THWN OR EQUAL. ALUMINUM NOT ACCEPTABLE.

ALL CONDUCTORS LOCATED OUTSIDE SHALL BE IN RIGID METAL CONDUIT.

PROVIDE EXPLOSION-PROOF CONDUIT SEAL-OFFS ON ALL CONDUITS ENTERING AND LEAVING CLASSIFIED HAZARDOUS LOCATIONS.

THE ELECTRICAL SYSTEM SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED IN ACCORDANCE WITH THE N.E.C. ARTICLE 250.

ALL SWITCH GEAR, PANELS, ETC. TO BE MARKED WITH PERMANENT ENGRAVED TAGS.

ALL WIRING SHALL BE LABELED AT EACH END AND AT EACH JUNCTION BOX.

PROVIDE TYPE WRITTEN PANEL SCHEDULES IDENTIFYING EACH BRANCH CIRCUIT BREAKER.

AUTOMATIC DISPENSER CONTROL OPERATIONAL SEQUENCES

GASOLINE DISPENSERS

TURNING ANY ONE OF THE FOUR GASOLINE DISPENSER SWITCHES TO THE ON POSITION WILL: 1) AUTOMATICALLY RESET THE DISPENSER METER, AND 2) SEND A 120VAC CONTROL SIGNAL TO THE HEALY SYSTEM MONITOR CONTROL BOX (SMCB) VIA THE N.O. FUEL DISPENSER RELAY CONTACTS 'MR1/MR2' LOCATED IN EACH GASOLINE DISPENSER.

THE HEALY 1005W RELAY ACCEPTS THE SIGNAL FROM THE DISPENSER AND IN TURN SENDS A 120VAC CONTROL VOLTAGE TO THE INTERSTITIAL GASOLINE PUMP START RELAY COIL 'CR' LOCATED IN MOTOR STARTER MS4. THE GASOLINE PUMP STARTS VIA THE N.O. CONTACTS 'CR1'.

A 120VAC VACUUM-ON CONTROL SIGNAL IS SENT TO THE HEALY CB1 RELAY VIA MS4 COIL CONTACTS 'M3'.

A 120VAC CONTROL VOLTAGE IS SENT TO THE N.O. SOLENOID VALVE LOCATED ON THE FUEL DISCHARGE LINE AT EACH STORAGE TANK VIA THE N.O. CONTACTS 'CR2'.

THE E.J. WARD SYSTEM CONTROLS THE DELIVERY OF PRODUCT VIA THE N.O. FUEL FLOW SOLENOID VALVE LOCATED IN EACH DISPENSER. POWER TO THE SOLENOID VALVES IS CONTROLLED BY PERMISSIVE RELAYS LOCATED IN THE E.J. WARD FUEL CONTROL TERMINAL (FCT).

DIESEL DISPENSERS

TURNING ANY ONE OF THE EIGHT DIESEL DISPENSER SWITCHES TO THE ON POSITION WILL: 1) AUTOMATICALLY RESET THE DISPENSER METER, AND 2) SEND A 120VAC CONTROL SIGNAL TO THE PUMP CONTROL PANEL (PCP) VIA THE N.O. FUEL DISPENSER RELAY CONTACTS 'MR1/MR2' LOCATED IN EACH DIESEL DISPENSER.

THE PCP ACCEPTS THE SIGNAL FROM THE DIESEL DISPENSERS AND IN TURN SENDS A 120VAC CONTROL VOLTAGE TO ONE OR MORE INTERSTITIAL DIESEL PUMP START RELAY COILS 'CR' LOCATED IN MOTOR STARTERS MS1, MS2, OR MS3. THE DIESEL PUMP STARTS VIA THE N.O. CONTACTS 'CR1'.

A 120VAC CONTROL VOLTAGE IS SENT TO THE N.O. SOLENOID VALVE LOCATED ON THE FUEL DISCHARGE LINE AT EACH STORAGE TANK VIA THE N.O. CONTACTS 'CR2'.

THE E.J. WARD SYSTEM CONTROLS THE DELIVERY OF PRODUCT VIA THE N.O. FUEL FLOW SOLENOID VALVE LOCATED IN EACH DISPENSER. POWER TO THE SOLENOID VALVES IS CONTROLLED BY PERMISSIVE RELAYS LOCATED IN THE E.J. WARD FUEL CONTROL TERMINAL (FCT).

EMERGENCY SHUTDOWN DEVICES (ESD)

ALL POWER TO THE FUEL DISPENSING ISLANDS AND PRODUCT STORAGE TANKS IS FED FROM PANEL 'P2'. PANEL 'P2' IS FED FROM PANEL 'P1' VIA A 100 AMP MAGNETIC CONTACTOR. THE CONTACTOR COIL IS HELD CLOSED USING A THREE WIRE HOLDING CIRCUIT WITH MOMENTARY CONTACT PUSH BUTTON STATIONS.

WHEN ANY OF THE EMERGENCY STOP OPERATORS ARE PRESSED, THE COIL WILL DROP OUT AND WILL OPEN THE HOLDING CIRCUIT CONTACT. ALL POWER TO PANEL 'P2' IS TURNED OFF. THE START BUTTON MUST BE OPERATED AGAIN BEFORE THE CIRCUIT WILL RESET.

TYPE: C.B. PNL. BD. (SQ.D NQOD, NEMA 1, SERVICE ENTRANCE)
SERVICE: 120/240V, 1PH, 3W
MOUNTING: SURFACE
POLES: 30

PANEL P1

MAIN BUS: 225A
MAINS: 200A M.C.B. ⚠
A.I.C.: 65,000 A.I.C.
LOCATION: INSIDE GEN BLDG

BREAKER TRIP/POLE	WIRE	GRD	CONDUIT	LOAD DESCRIPTION	LOAD VA	CKT No.	PHASE A	PHASE B	CKT No.	LOAD VA	LOAD DESCRIPTION	CONDUIT	GRD	WIRE	BREAKER TRIP/POLE
20-2	10	–	1"	CANOPY LIGHTS	1800	1	+		2	11860	PANEL 'P2'	1.1/4	–	3	100-2
						3		+	4		VIA 100A LTD CONT.				
20-2	10	–	1"	CANOPY LIGHTS	3200	5	+		6	200	EMERGENCY SHUTDOWN	3/4	–	12	20-1
						7		+	8	800	ELECT RM LTS/REC	1/2	–	12	20-1
20-2	10	–	1"	CANOPY LIGHTS	3200	9	+		10	500	GEN BATTERY CHARGER	1/2	–	12	20-1
						11		+	12	900	DAY TANK SUPPLY PUMP (1/3 HP)	1/2	–	12	20-1
20-1	12	–	1.1/4	TANK"B" HI-LEVEL ALARM	500	13	+		14	900	DAY TANK RETURN PUMP (1/3 HP)	1/2	–	12	20-1
20-1	12	–	1.1/4	TANK"D" HI-LEVEL ALARM	500	15	+		16	200	DAY TANK CONTROL PANEL	1/2	–	12	20-1
20-1	12	–	1.1/4	TANK"C" HI-LEVEL ALARM	500	17	+		18	600	GAS LINE VALVE "TANK C"	1.1/4	–	12	20-1
20-1	12	–	1.1/4	TANK"C" HI-LEVEL ALARM	500	19	+		20	600	DIESEL LINE VALVE "TANK B"	1.1/4	–	12	20-1
						21	+		22	600	DIESEL LINE VALVE "TANK D"	1.1/4	–	12	20-1
						23	+		24	600	DIESEL LINE VALVE "TANK E"	1.1/4	–	12	20-1
						25	+		26						
						27	+		28						
						29	+		30						
NOTES: ① –					10000	CONNECTED				17760	TOTAL CONNECTED LOAD:	27,760 VA (116 Amps)			
						DEMAND					TOTAL DEMAND LOAD:	–			

TYPE: C.B. PNL. BD. (SQ.D NQOD, NEMA 1, W/GROUND BUS)
SERVICE: 120/240V, 1PH, 3W
MOUNTING: SURFACE
POLES: 30

PANEL P2

MAIN BUS: 225A
MAINS: M.L.O.
A.I.C.: 65,000 A.I.C.
LOCATION: INSIDE GEN BLDG

BREAKER TRIP/POLE	WIRE	GRD	CONDUIT	LOAD DESCRIPTION	LOAD VA	CKT No.	PHASE A	PHASE B	CKT No.	LOAD VA	LOAD DESCRIPTION	CONDUIT	GRD	WIRE	BREAKER TRIP/POLE
20-2	12	12	1.1/4	DISP PWR ISLAND #1 ①②	800	1	+		2	2400	DIESEL PUMP (1.5 HP)	1.1/4	12	12	20-2
						3		+	4		TANK 'B'				
20-2	12	12	1.1/4	DISP PWR ISLAND #2 ①②	400	5	+		6	2400	DIESEL PUMP (1.5 HP)	1.1/4	12	12	20-2
						7		+	8		TANK 'D'				
20-1	12	12	1.1/4	E.J. WARD (FCT) ②③	500	9	+		10	2400	DIESEL PUMP (1.5 HP)	1.1/4	12	12	20-2
				(UNUSED)		11		+	12		TANK 'E'				
20-1	12	12	1/2	VEEDER-ROOT (TLS-350) ①③	500	13	+		14	1660	UL GAS PUMP (3/4 HP)	1.1/4	12	12	20-2
				(UNUSED)		15	+		16		TANK 'C'				
20-1	12	12	1/2	BBL POP ①	200	17	+		18	200	FCT ISLAND RECEPTACLE ④	1.1/4	12	12	20-1
				(UNUSED)		19		+	20						
20-1	12	12	1/2	CNTRL CKT-DIESEL PUMPS ①	200	21	+		22						
				(UNUSED)		23		+	24						
20-1	12	12	1/2	CNTRL CKT-GAS PUMP ①	200	25	+		26						
						27	+		28						
						29	+		30						
NOTES: ① SWITCHED NEUTRAL TYPE G.B. ② CIRCUITS TO BE ON SAME PHASE LEG ③ GFI G.B. ④ VIA LINE POWER COND.					2800	CONNECTED				9060	TOTAL CONNECTED LOAD:	11,860 VA (49 Amps)			
						DEMAND					TOTAL DEMAND LOAD:	–			

PRIOR TO INSTALLATION OF ROUGH ELECTRIC WIRING CHECK NAME PLATE DATA OF A/C EQUIPMENT, HOT WATER HEATERS AND OTHER EQUIPMENT TO OBTAIN CORRECT WIRE SIZES AND OVERCURRENT PROTECTION. ADEQUATE SERVICE CAPACITY - MUST BE PROVIDED. SUBJECT TO ELECTRICAL INSPECTION

MIAMI-DADE COUNTY
BUILDING DEPARTMENT
ELECTRICAL SECTION
APPROVED BY: [illegible]
DATE: 10/19/99

9-2-99

⚠	INCREASED SIZE OF M.C.B.	JRT	9-2-99
⚠	ADD HEALY, ADD FUEL LINE VALVES	JRT	6-21-99

JOHN R. TOSCANO, INC.
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Fire Code Committee: 1994, 1995, 1996
Professional Society Memberships: Boston Society of Heating, Refrigeration, and Air-Conditioning Engineers, ASHRAE. National Fire Protection Association, N.F.P.A. American Concrete Institute, A.C.I.

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1	JUNE 21, 1999	
	DATE ISSUED	

GENERAL SERVICES ADMINISTRATION
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8801 NW 58TH STREET
MIAMI, FLORIDA 33166

SHEET TITLE
ELEMENTARY CONTROL DIAGRAMS
ELECTRICAL PANELS & NOTES

PROJECT No. 90301
SHEET No. E4
SCALE: 1/8"=1'-0"
DRAWN: JRT
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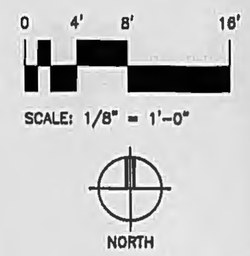
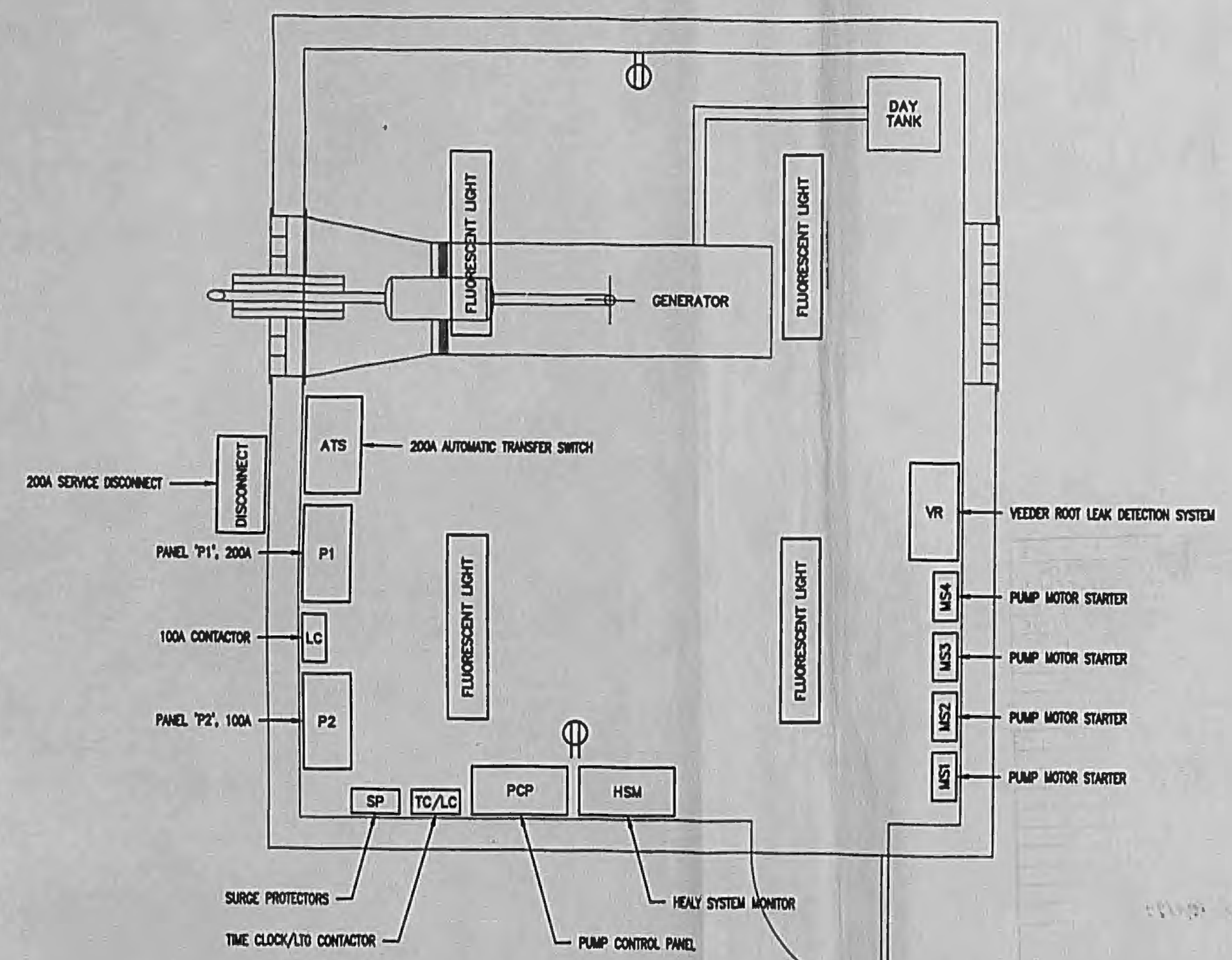
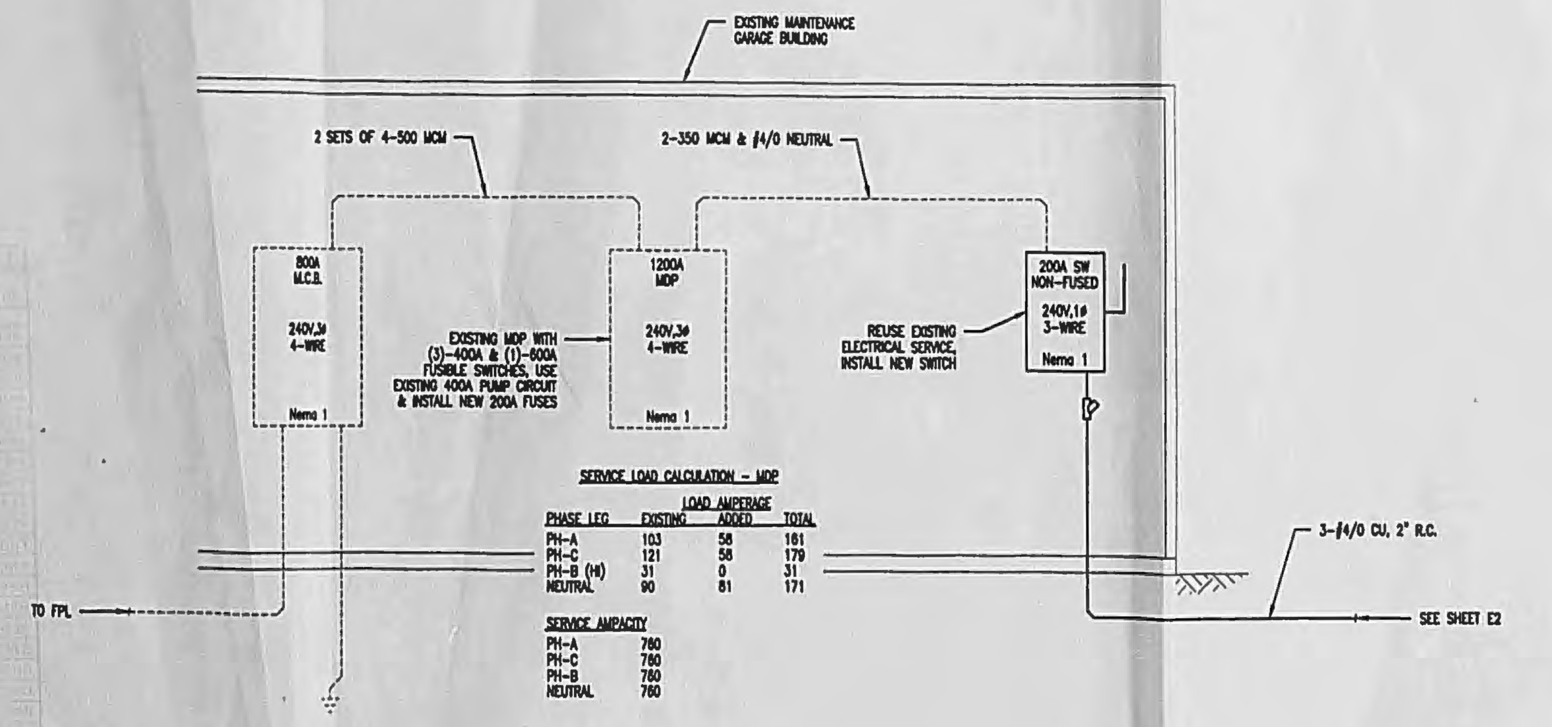
PAGE No.





(2) Generator Bldg. Elect. Plan
1/8" = 1'-0"



SERVICE LOAD CALCULATION - MDP

PHASE LEG	LOAD AMPERAGE EXISTING	ADDED	TOTAL
PH-A	103	58	161
PH-C	121	58	179
PH-B (HI)	31	0	31
NEUTRAL	90	81	171

SERVICE AMPACITY

PH-A	760
PH-C	760
PH-B	760
NEUTRAL	760

(1) Maintenance Bldg. Elect. Riser
Scale: None

PRIOR TO INSTALLATION OF ROUGH ELECTRIC WIRING CHECK NAMEPLATE DATA OF A/C EQUIPMENT, HOT WATER HEATERS AND OTHER EQUIPMENT TO OBTAIN CORRECT WIRE SIZES AND OVERCURRENT PROTECTION. ADEQUATE SERVICE CAPACITY - MUST BE PROVIDED. SUBJECT TO ELECTRICAL INSPECTION

MIAMI-DADE COUNTY
BUILDING DEPARTMENT
ELECTRICAL SECTION
APPROVED BY:
DATE:

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Florida License Number: 33756
California License Number: M028749
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1	SEPTEMBER 2, 1999
	DATE ISSUED

GENERAL SERVICES ADMINISTRATION
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MIAMI, FLORIDA 33166

SHEET TITLE
ELECTRICAL DETAILS

PROJECT No. 90301
SCALE: 1/8"=1'-0"
DRAWN: JRT
CHECK: JRT
SHEET No. E5
PAGE No.

9-2-99

6

From: saide@scrmechanical.com
To: Muñoz, Alfredo (PIOD)
Cc: Perez Texidor, Frances (PIOD); "Rafael SCRMechanical"
Subject: RE: RPQ No. ID-0000000785-Diesel Exhaust Fuel -DEF- System Installation
Date: Thursday, June 5, 2025 12:33:17 PM
Attachments: image002.png

Mr. Munoz,

Following up to the mandatory pre-bid meeting and site visit of earlier this morning, please see below some of the RFI's to be addressed:

- Please provide Technical Specifications for the DEF piping to be installed
- Please provide detailed piping route for the proposed new system
- Please provide technical Specifications for the DEF Tank.
- Please provide detailed instrumentation required for the DEF piping and storage system.

Thank you,

Saide Rangel

SCR MECHANICAL

E: saide@scrmechanical.com
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Coral Gables, Florida 33134
Phone: (786) 369-0465
Mobile: (954) 214-3759

From: saide@scrmechanical.com
To: Muñoz, Alfredo (PIOD)
Cc: Perez Texidor, Frances (PIOD); "Rafael SCRMechanical"; Clerk of the Board (COC)
Subject: RE: RPQ No. ID-0000000785-Diesel Exhaust Fuel -DEF- System Installation
Date: Friday, June 6, 2025 1:06:10 PM
Attachments: image002.png

Mr. Munoz,

Please see below another RFI:

- Please provide detailed plans for this project.
- Do Prevailing Wages apply for this project? If yes, does Building or Heavy wages apply?

Have a great weekend!

Saide Rangel

SCR MECHANICAL

E: saide@scrmechanical.com
1600 Ponce De Leon Blvd, Ste 1016
Coral Gables, Florida 33134
Phone: (786) 369-0465
Mobile: (954) 214-3759

From: Ricardo Montijo
To: Perez Texidor, Frances (PIOD)
Cc: Muñoz, Alfredo (PIOD); Clerk of the Board (COC)
Subject: RFI for RPQ No. ID-0000000785-Diesel Exhaust Fuel -DEF- System Installation
Date: Monday, June 9, 2025 12:50:00 PM

Hi

The following is a list of RFI for the mentioned project.

1. Please provide the existing electrical system as-built and panel schedule for the fuel pump system, fuel System as-built, site plan as-built for the gas station.
2. Does this project have working hours restrictions?
3. Please indicate the amount of dispenser/ hoses required.
4. Does the County have any equipment preference?
5. Please provide the tank capacity that County would like to have.
6. Will EJ Wall pedestal have control relays for the activation of the DEF pump?
7. We would like to know the amount of tank required and their capacity.
8. Are new bollards are going required or new ones are required ? Which size?
9. Can you extend the bid due date?
10. Where's required to deliver the bid package?

Number of dispensers/hoses
- Tank capacity
- Hose lengths- are hose retractors required?
- Will the EJ Ward pedestal have control relays for the activation of the DEF pumps?
- number of tanks?
- bollard size?

Sincerely;

Ricardo Montijo
RicMon Group LLC
General & Engineering Contractor
BSCE, CGC, CUC, HI

Phone: 786-443-7342

Thank you.