FILE

1075629 (1)

HARDEE COUNTY LANDFILL
LATERAL EXPANSION AND
LEACHATE STORAGE TANK FACILITY

RECORD DRAWINGS

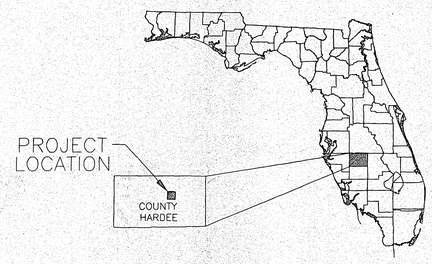
PREPARED FOR

BOARD OF COUNTY COMMISSIONERS
HARDEE COUNTY, FLORIDA

JULY 2000

RECEIVED
JUL 28 2000
Department of Environmental Protection
BY SOUTHWEST DISTRICT

LOCATION MAP



HARDEE COUNTY 19 21 FLORIDA

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PREPARED BY
PBSJ
POST, BUCKLEY, SCHUH & JERNIGAN INC.
ENGINEERING - PLANNING - ARCHITECTURE

"RECORD DRAWINGS"

INCORPORATING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS BASED ON DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER.

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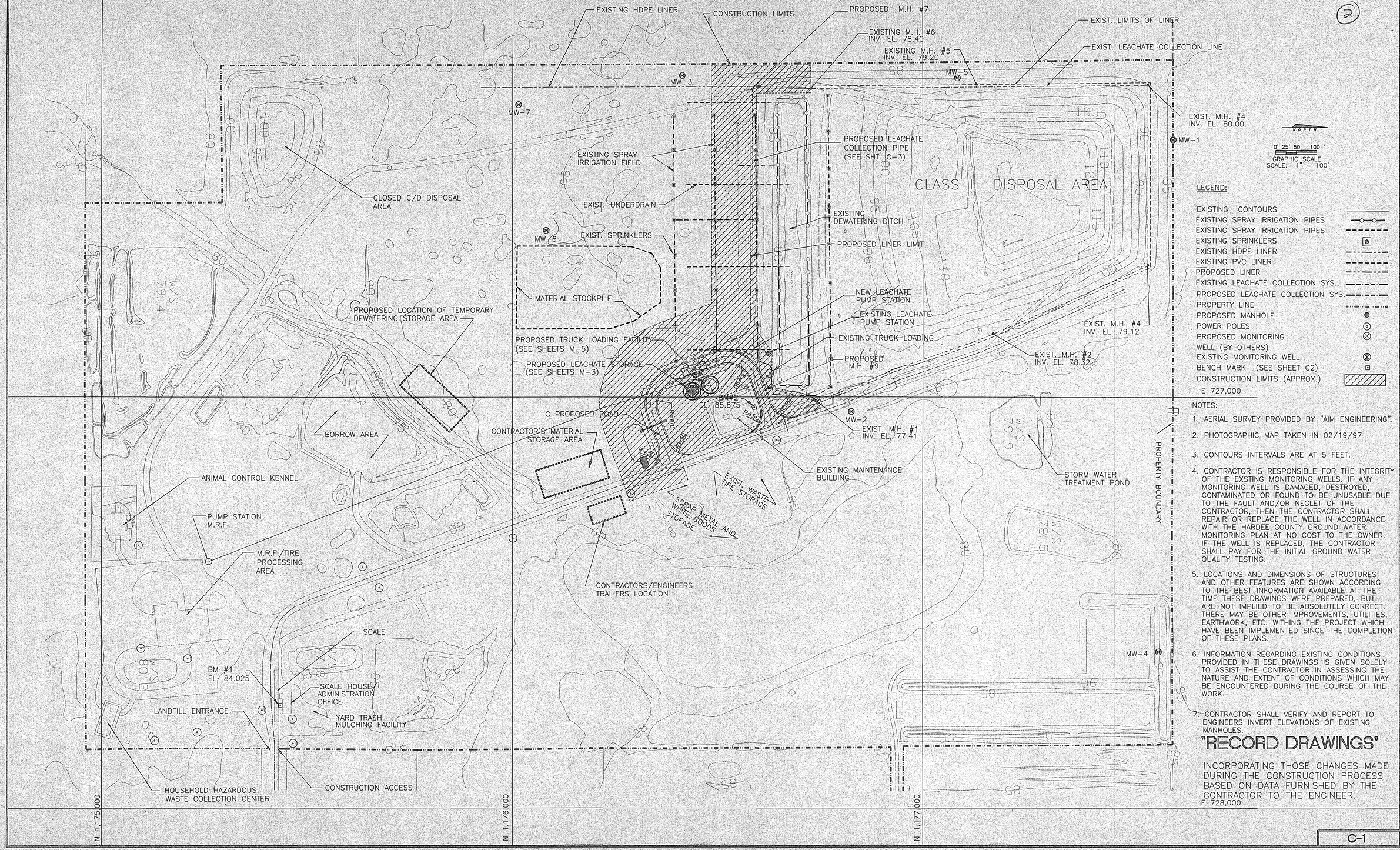
AutoCAD - Release 13



(2)

NORTH

0' 25' 50' 100'

GRAPHIC SCALE
SCALE: 1" = 100'

LEGEND:

- EXISTING CONTOURS
- EXISTING SPRAY IRRIGATION PIPES
- EXISTING SPRAY IRRIGATION PIPES
- EXISTING SPRINKLERS
- EXISTING HDPE LINER
- EXISTING PVC LINER
- PROPOSED LINER
- EXISTING LEACHATE COLLECTION SYS.
- PROPOSED LEACHATE COLLECTION SYS.
- PROPERTY LINE
- PROPOSED MANHOLE
- POWER POLES
- PROPOSED MONITORING WELL (BY OTHERS)
- EXISTING MONITORING WELL
- BENCH MARK (SEE SHEET C2)
- CONSTRUCTION LIMITS (APPROX.)

NOTES:

1. AERIAL SURVEY PROVIDED BY "AIM ENGINEERING".
2. PHOTOGRAPHIC MAP TAKEN IN 02/19/97
3. CONTOURS INTERVALS ARE AT 5 FEET.
4. CONTRACTOR IS RESPONSIBLE FOR THE INTEGRITY OF THE EXSTING MONITORING WELLS. IF ANY MONITORING WELL IS DAMAGED, DESTROYED, CONTAMINATED OR FOUND TO BE UNUSABLE DUE TO THE FAULT AND/OR NEGLET OF THE CONTRACTOR, THEN THE CONTRACTOR SHALL REPAIR OR REPLACE THE WELL IN ACCORDANCE WITH THE HARDEE COUNTY GROUND WATER MONITORING PLAN AT NO COST TO THE OWNER. IF THE WELL IS REPLACED, THE CONTRACTOR SHALL PAY FOR THE INITIAL GROUND WATER QUALITY TESTING.
5. LOCATIONS AND DIMENSIONS OF STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME THESE DRAWINGS WERE PREPARED, BUT ARE NOT IMPLIED TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, EARTHWORK, ETC. WITHING THE PROJECT WHICH HAVE BEEN IMPLEMENTED SINCE THE COMPLETION OF THESE PLANS.
6. INFORMATION REGARDING EXISTING CONDITIONS PROVIDED IN THESE DRAWINGS IS GIVEN SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK.
7. CONTRACTOR SHALL VERIFY AND REPORT TO ENGINEERS INVERT ELEVATIONS OF EXISTING MANHOLES.

"RECORD DRAWINGS"

INCORPORATING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS BASED ON DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER.

C-1

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POST, BUCKLEY, SCHUH & JERNIGAN, INC.

CLIENT	HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS
PROJECT	HARDEE COUNTY REGIONAL LANDFILL CONSTRUCTION PLANS
TASK	SITE PLAN

ORIGINAL JUNE 1997
REVISIONS:
1 R.A.I. NO.1 SEPT. 97
2 RECORD DWG. 07/01/00
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12

JOB NO. 07-862.35
DRAWN RGC
DESIGN RGC, MM
CHECKED DED
Q.C. JWF

N 1,177,000

BENCHMARK #	COORDINATES EASTING	COORDINATES NORTHING	ELEV. (FT)
1	727,750	1,175,434	84.025
2	727,025	1,176,589	85.875

NORTH

0' 25' 50'

SCALE: 1" = 50'

LEGEND:

- EXISTING WATER LINE
- LIMIT OF CONSTRUCTION
- EXISTING CONTOURS
- EXISTING IRRIGATION PIPES & SPRINKLERS
- EXISTING IRRIGATION PIPES & SPRINKLERS
- EXISTING SPRINKLERS
- EXISTING HDPE LINER
- EXISTING PVC LINER
- PROPOSED LINER
- EXISTING LEACHATE COLLECTION SYSTEM
- PROPOSED LEACHATE COLLECTION SYSTEM
- PROPERTY LINE
- PROPOSED MANHOLE
- POWER POLES
- PROPOSED MONITORING WELL (BY OTHERS)
- EXISTING MONITORING WELL
- SOIL BORING
- BENCH MARK (BM)
- PAVED ROADWAY

NOTES:

1. REMOVE SPRAY IRRIGATION PIPES AND UNDERDRAIN AS NECESSARY TO PROVIDE SPACE FOR LINER EXCAVATION. ABANDON THE REST OF THE PIPES.
2. FOR DRAINAGE AND GRADING ON LEACHATE STORAGE TANK AREA SEE SHEET C-3.
3. MINIMUM GROUNDWATER ELEVATION IS 76.09 FEET. MAXIMUM GROUNDWATER ELEVATION IS 84.25 FEET.
4. CONTRACTOR IS RESPONSIBLE TO PROTECT EXISTING STRUCTURES.
5. ALL DISTURBED AREAS DUE TO EXCAVATION, HEAVY TRAFFIC OR CONSTRUCTION OPERATIONS, SHALL BE RESTORED TO ITS ORIGINAL CONDITIONS AND SODDED WHEN APPLICABLE.
6. UNLESS OTHERWISE NOTED, SPRAY IRRIGATION PIPES RANGE FORM 3/4" TO 2-1/2" IN DIAMETER AND ARE APPROXIMATELY 14" BELOW GROUND.
7. UNDERDRAIN PIPING CONSISTS OF 6-INCH CORRUGATED PIPE AND IS LOCATED APPROXIMATELY 4" BELOW GROUND.

"RECORD DRAWINGS"

INCORPORATING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS BASED ON DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER.

C-2

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H:\ENVCADD\WASTEMAN\HARDEE\CONSTRUCTION\RECORDING\HAC-C3.DWG
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AutoCAD - Release 13

CLIENT	PROJECT	TASK
HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS	HARDEE COUNTY LANDFILL LATERAL EXPANSION AND LEACHATE STORAGE TANK FACILITY	CONSTRUCTION PLAN

ORIGINAL
REVISIONS:
1 RECORD DWG. 07/01/00
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JOB NO. 07-862.35
DRAWN RGC
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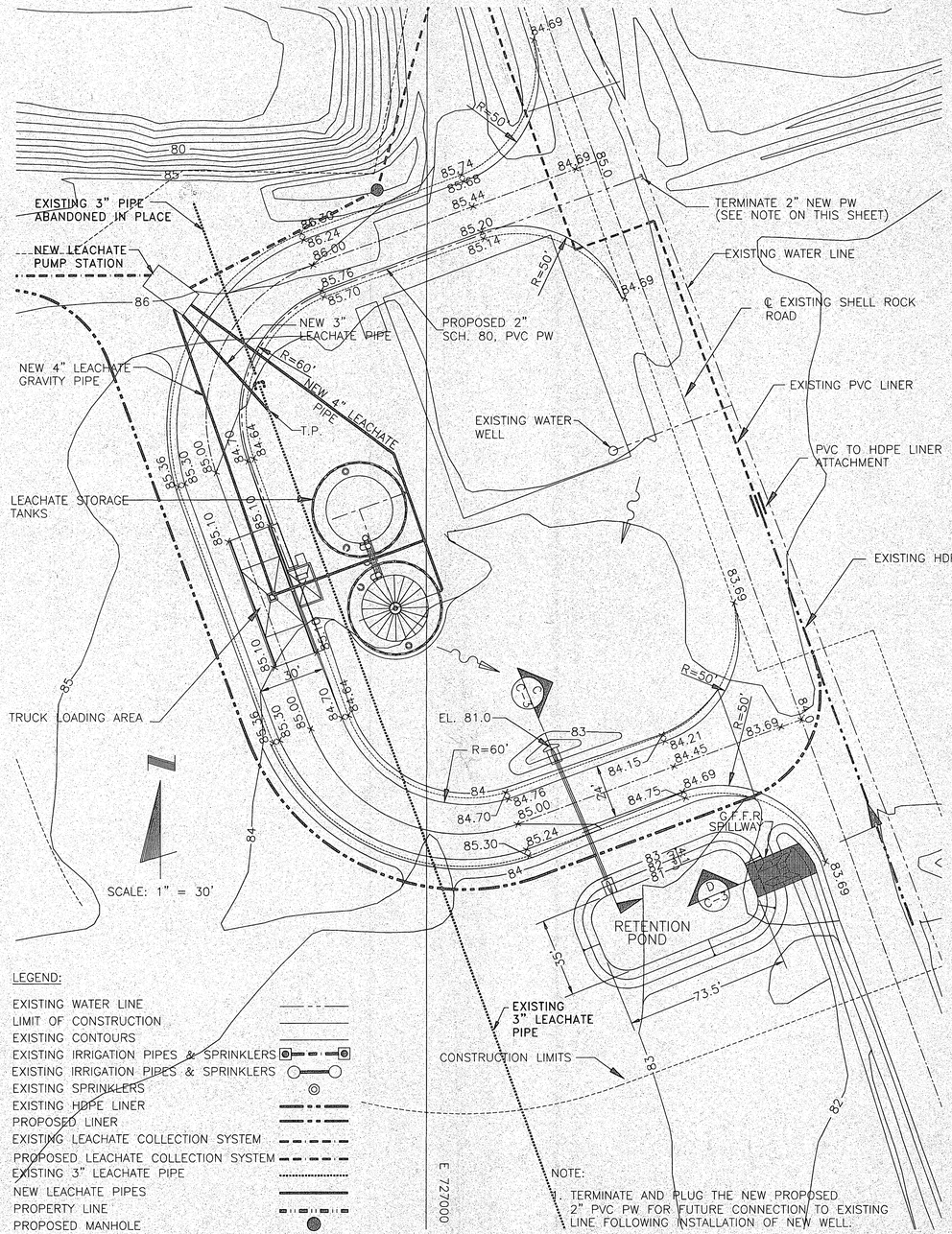
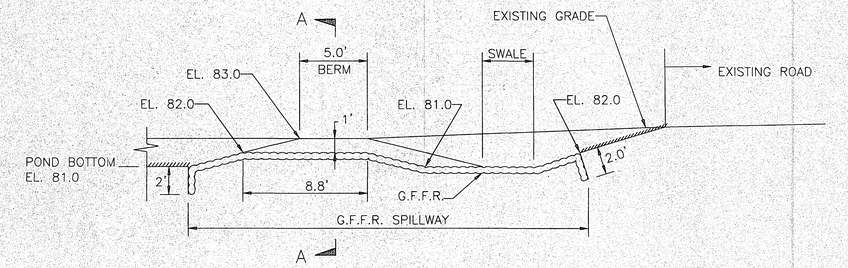
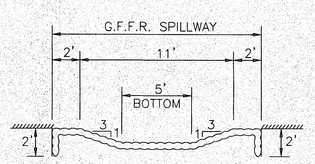
Q.C. JWF
SHEET 3/



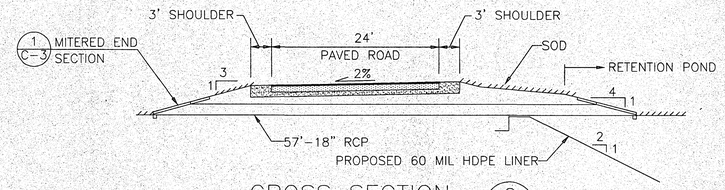
NOTE:
1. TERMINATE AND PLUG THE NEW PROPOSED 2" PVC PW FOR FUTURE CONNECTION TO EXISTING LINE FOLLOWING INSTALLATION OF NEW WELL.



CROSS SECTION D
SCALE: 1"=5'
C-3



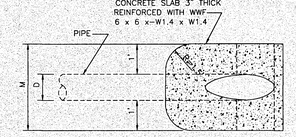
CROSS SECTION A-A
SCALE: 1"=5'



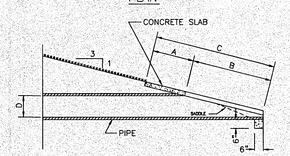
CROSS SECTION C
SCALE: 1"=10'
C-3

DIMENSIONS

D	X	A	B	C	E	M SINGLE PIPE	M DOUBLE PIPE
18"	2'-10"	1.97'	2.74'	4.71'	2.56'	4.92'	7.75'
24"	3'-5"	2.06'	3.85'	5.91'	3.56'	5.50'	8.92'
36"	5'-1"	2.25'	6.08'	8.33'	5.56'	6.67'	11.75'



PLAN



SECTION

MITERED END SECTION 3 C-3
N.T.S.

"RECORD DRAWINGS"

INCORPORATING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS BASED ON DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER.

C-3

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CLIENT	PROJECT	TASK
HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS	HARDEE COUNTY LANDFILL LATERAL EXPANSION AND LEACHATE STORAGE TANK FACILITY	LEACHATE STORAGE AREA GRADING AND DRAINAGE

ORIGINAL
REVISIONS:
1 RECORD DWG 07/01/00
2
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JOB NO. 07-862.35
DRAWN KAL, RGC
DESIGN KAL
CHECKED CEH
Q.C. JWF
SHEET 4

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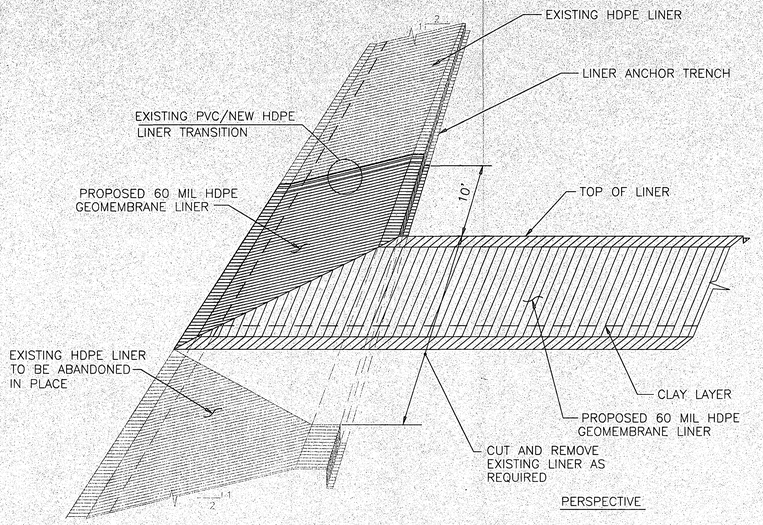
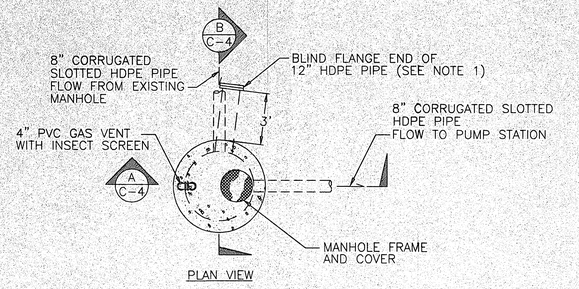


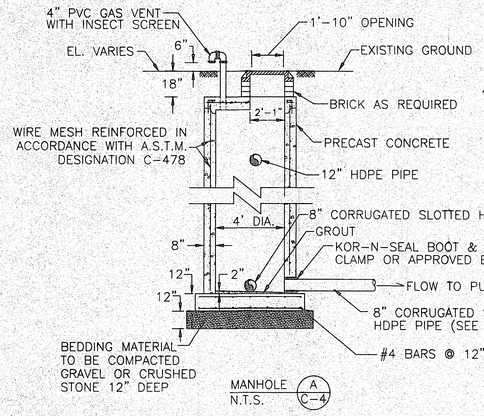
PERSPECTIVE

LINER CONNECTION (1 / C-2)
N.T.S.

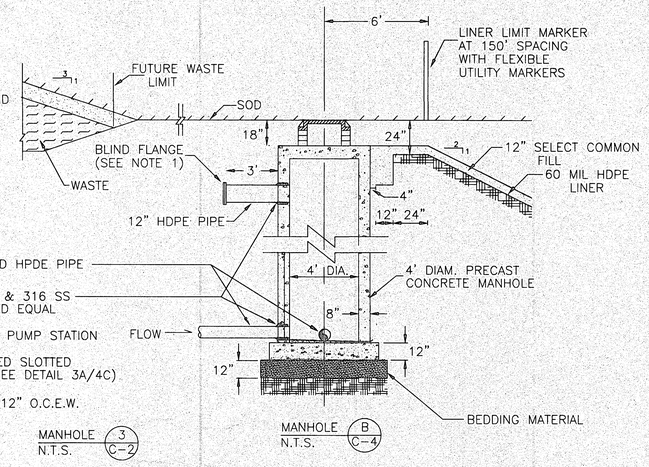


PLAN VIEW

NOTES:
1. BLIND FLANGE END OF PIPE FOR FUTURE USE BY THE COUNTY. THIS PIPE WILL BE USED AS A LEACHATE DISCHARGE PIPE FROM LANDFILL WORKING FACE.

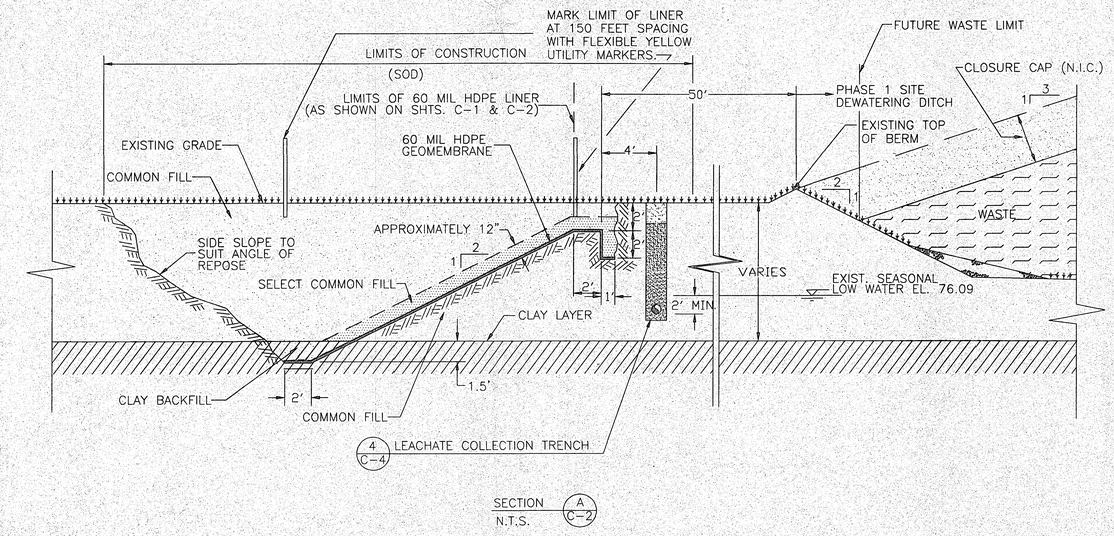


MANHOLE (A / C-4)
N.T.S.

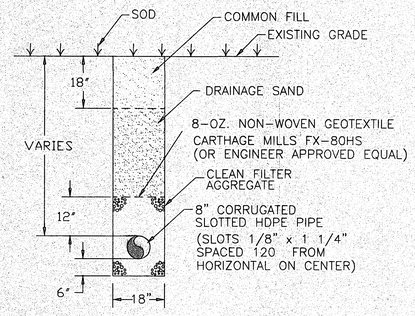


MANHOLE (3 / C-2)
N.T.S.

MANHOLE (B / C-4)
N.T.S.



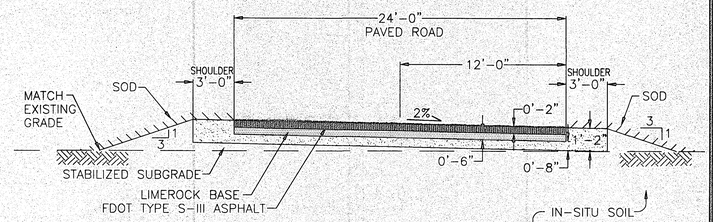
SECTION (A / C-2)
N.T.S.



LEACHATE COLLLECTION TRENCH (4 / C-4)
N.T.S.

NOTE: LEACHATE COLLECTION TRENCH DEPTH VARIES. THE TRENCH BOTTOM FOLLOWS THE PIPE SLOPE APPROXIMATELY 6" BELOW THE PIPE INVERT.

LEACHATE COLLECTION PIPE INVERTS ARE GIVEN AT MANHOLE CONNECTIONS IN SHEET C-2.



NOTE:

THIS CROSS SECTION IS TYPICAL FOR THE NORTH AND SOUTH PORTIONS OF THE ROAD. THE WEST SIDE WIDENS TO A 30' WIDE PAVED SECTION WITH 3' SHOULDERS.

SECTION (B / C-2)
N.T.S.

"RECORD DRAWINGS"

INCORPORATING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS BASED ON DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER.

C-4

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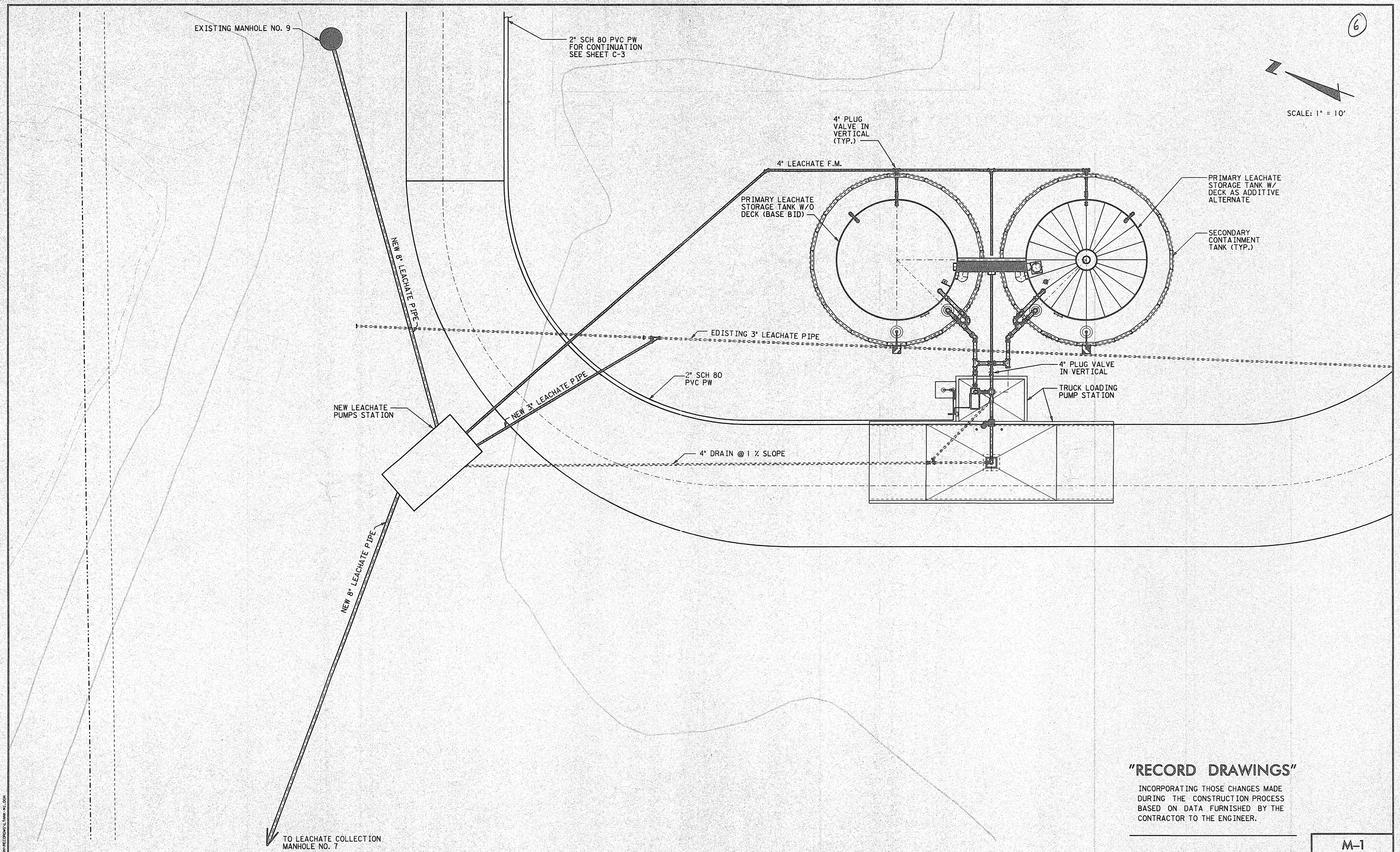
AutoCAD - Release 12

POST, BUCKLEY, SCHUH & JERNIGAN, INC.

CLIENT: HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS	PROJECT: HARDEE COUNTY REGIONAL LANDFILL CONSTRUCTION PLANS	TASK: SECTIONS AND DETAILS	ORIGINAL JUNE 1997 REVISIONS: 1 R.A.I. No. 1 Sept 97 2 RECORD DWG. 07/01/00 3 4 5	6 7 8 9 10 11 12	JOB NO 07-862.35 DRAWN RGC DESIGN RGC, MM CHECKED DED Q.C. JWF SHEET 5/16



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"RECORD DRAWINGS"

INCORPORATING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS BASED ON DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER.

M-1

PBS&J
1560 N. Orange Avenue
Suite 700
Winter Park, FL 32789
Tel. (407) 647-7275
Fax. (407) 647-0624
www.pbsj.com

CLIENT: HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

PROJECT: HARDEE COUNTY LANDFILL LATERAL EXPANSION AND LEACHATE STORAGE TANK FACILITY

TASK: LEACHATE STORAGE TANKS AND YARD PIPING PLAN

ORIGINAL FEB. 1999
REVISIONS:
1. RECORD DWG. 07/01/00
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JOB NO. 07-172.02
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CHECKED CF
Q.C. DBS

SHEET 6/16

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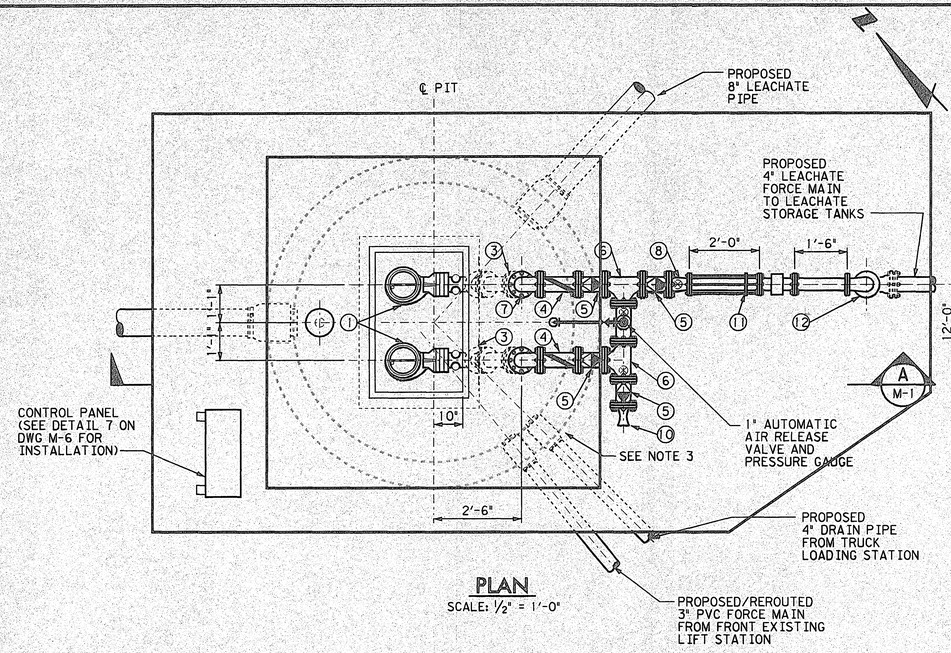
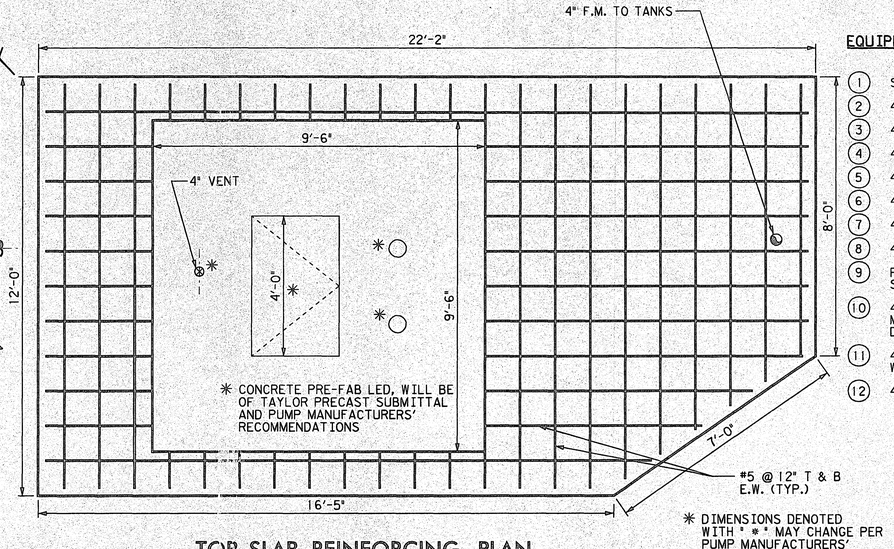


PLAN

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



TOP SLAB REINFORCING PLAN

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

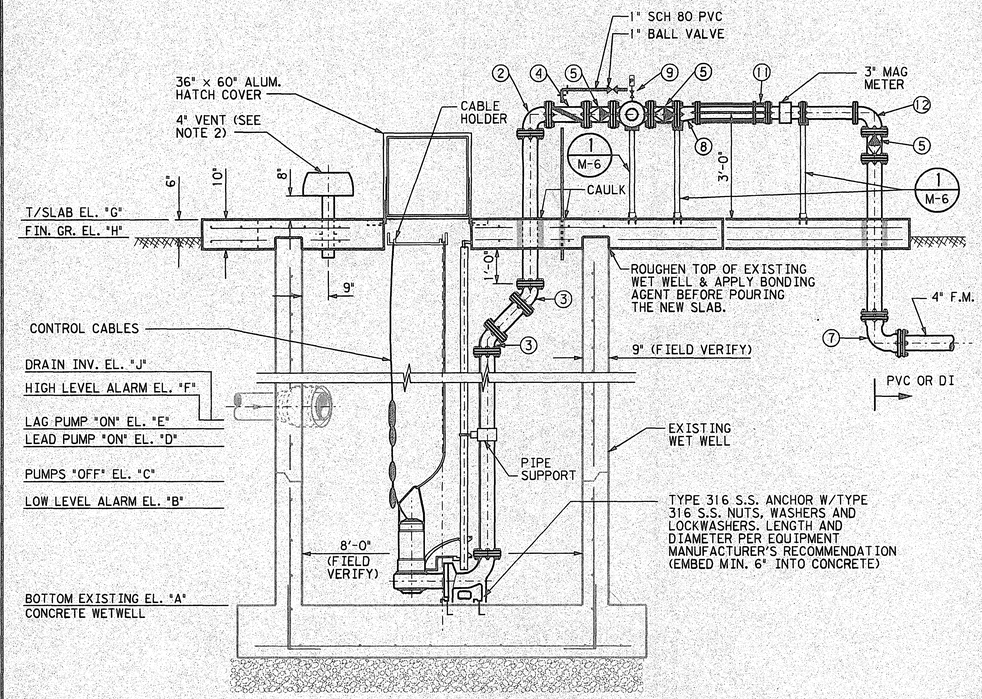
* DIMENSIONS DENOTED WITH ' * ' MAY CHANGE PER PUMP MANUFACTURERS' RECOMMENDATIONS

EQUIPMENT AND FITTING SCHEDULE

1	SUBMERSIBLE PUMP
2	4" 90° BEND, DI (FLG.)
3	4" 45° BEND DI (FLG.)
4	4" SWING CHECK VALVE, (FLG.)
5	4" PLUG VALVE, (FLG)
6	4" TEE, DI (FLG.)
7	4" 90° BEND, DI (R.J.)
8	4" x 3" ECC. RED. (FLG.)
9	PRESSURE GAUGE (FOR DETAIL SEE SHT. M-6)
10	4" CAM AND GROOVE ALUM. MALE ADAPTER (FLG.) WITH DUST CAP AND 316SS CHAIN
11	4" FLANGED COUPLING ADAPTER WITH RESTRAINING RODS
12	4" x 3" BEND, D.I. (FLG.)

NOTES:

1. ALL NUTS AND BOLTS FOR FLANGES IN WETWELL SHALL BE TYPE 316 S.S.
2. VENT PIPE SHALL BE JOSAM MODEL 26700 OR APPROVED EQUAL. VENT SHALL HAVE AN 8" CLEARANCE FROM TOP SLAB OF LIFT STATION.
3. CORE DRILL NEW PIPE PENETRATIONS AND INSTALL PIPE USING KOR-N-SEAL RUBBER BOOT WITH STAINLESS STEEL HARDWARE.
4. FOR EXISTING PUMP STATION DEMOLITION PLAN, SEE DWG. M-8.



SECTION A M-1

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

PUMP STATION DATA TABLE

DESIGNATION	P.S. NO.2	REMARKS
ELEVATION "A"	69.00	
ELEVATION "B"	71.75	
ELEVATION "C"	71.00	
ELEVATION "D"	72.00	
ELEVATION "E"	72.50	
ELEVATION "F"	72.75	
ELEVATION "G"	85.50	
ELEVATION "H"	85.00	
ELEVATION "J" LOWEST DRAIN INV. EL. (8" DRAIN)	72.75	
PUMP STATION, PIPING VALVES AND FITTINGS SIZE & MATERIALS	4" D.I.	
FM, SIZE	4"	
PRIMARY DUTY POINT	130 gpm @ 32 FT.	
SECONDARY DUTY POINT	300 gpm @ 23 FT.	
SHUT OFF HEAD	42 FT.	
INFLUENT DRAIN SIZE	4"/8"	

"RECORD DRAWINGS"

INCORPORATING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS BASED ON DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER.

M-2

PBS&J
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www.pbsj.com

CLIENT	PROJECT	TASK
HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS	HARDEE COUNTY LANDFILL LATERAL EXPANSION AND LEACHATE STORAGE TANK FACILITY	SUBMERSIBLE LEACHATE PUMP STATION PLAN, SECTION AND DETAILS

ORIGINAL FEB. 1999
REVISIONS:
1. RECORD DWG. 07/01/00
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.

JOB NO. 07-172.02
DRAWN QV
DESIGN RS
CHECKED CF
Q.C. DBS

SHEET 7/16

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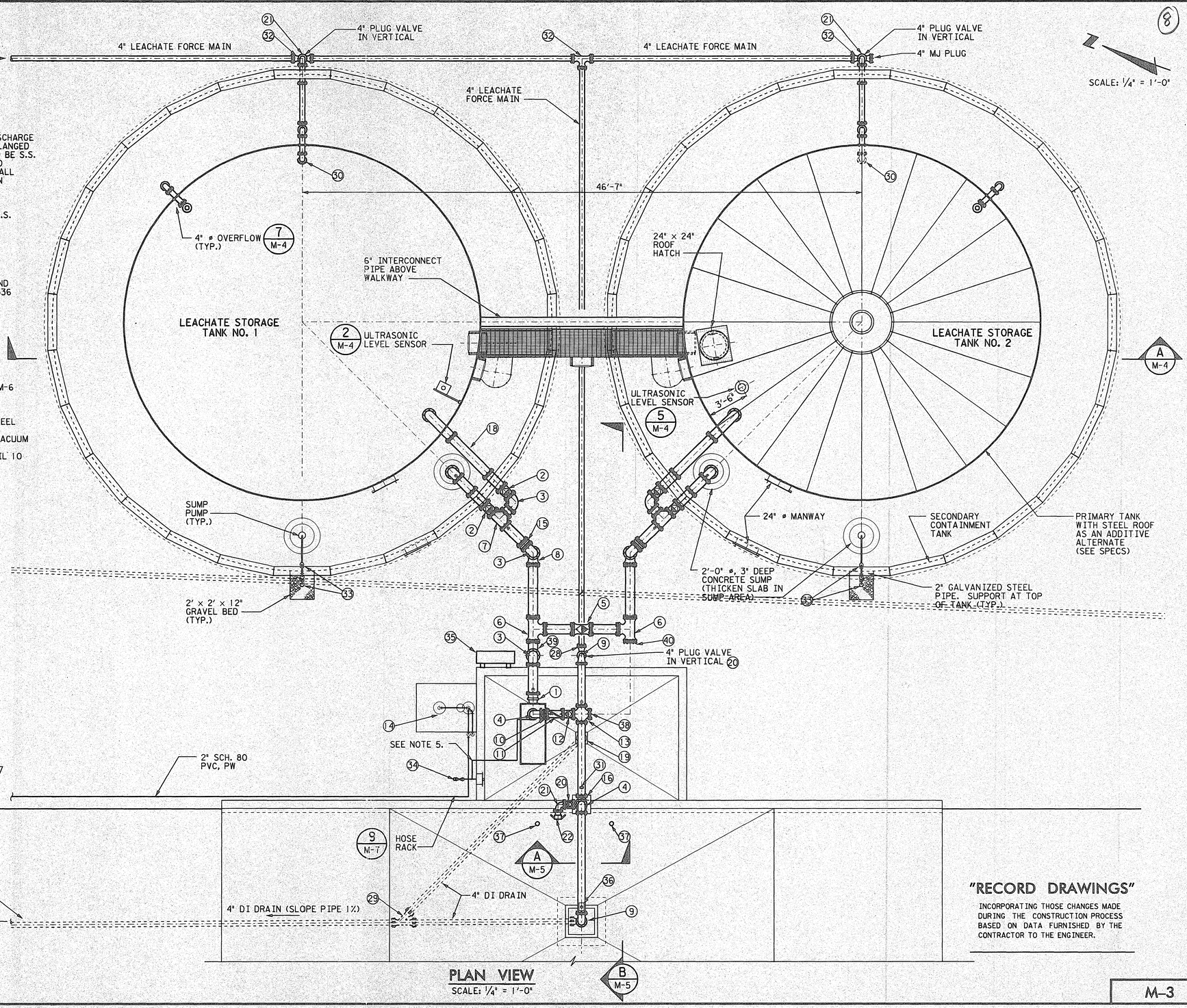
24-JUL-2000 09:26 --- EMP. NO= RC9327

EQUIPMENT AND FITTING SCHEDULE

1. 8" x 6" FLEXIBLE EXPANSION ECCENTRIC REDUCER (FLG.) (TOP LEVEL)
2. 8" PLUG VALVE W/GEAR OPERATOR & HANDWHEEL (FLG.)
3. 8" 90° BEND DI (FLG.)
4. 6" 90° BEND DI (FLG.)
5. 8" PLUG VALVE (RJ) W/VALVE BOX SEE SHT. M-6 FOR DETAIL
6. 8" TEE DI (RJ)
7. 8" TEE DI (FLG.)
8. 8" 90° BEND DI (RJ)
9. 6" x 4" 90° BEND DI (FLG.)
10. 6" FLEXIBLE EXPANSION JOINT (FLG.) WITH RESTRAINING RODS.
11. 6" SWING CHECK VALVE (FLG.)
12. 6" PLUG VALVE W/GEAR OPERATOR & HANDWHEEL (FLG.)
13. 6" CROSS DI (FLG.)
14. EMERGENCY EYEWASH & SHOWER, SEE SHT. M- 6 FOR DETAILS
15. 8" FLEX EXPANSION JOINT W/ RESTRAINING ROD
16. 6" 90° BASE BEND DI (FLG.)
17. 6" x 4" TEE DI (FLG.)
18. 8" 90° FLG. x FLEAR BEND DI
19. 4" JOSAM FLOOR DRAIN SERIES 32200 WITH BWV JOSAM SERIES 67100A, GALVANIZED, NO HUB.
20. 4" PLUG VALVE W/LEVER OPERATOR (FLG.)
21. 4" 90° BEND DI (FLG.)
22. 4" ALUMINUM CAM & GROOVE MALE ADAPTER (FLG.) W/DUST CAP AND CHAIN
23. 8' LONG, 4" DIA. RUBBER DISCHARGE HOSE WITH AN INTERGRAL FLANGED END, W/ NUTS AND BOLTS TO BE S.S. HOSE SHALL BE RATED @ 100 PSI AND HAVE A MINIMUM WALL THICKNESS OF 0.39". AMAZON RUBBER AND HOSE COMPANY OR APPROVED EQUAL.
24. 6" SWIVEL JOINT (FLG.) W/S.S. FLANGE, NUT & BOLTS, SEE SHT. M-5 FOR TRAVEL LIMIT STOP DETAIL.
25. PIPE FLANGE SUPPORT, SEE SHT. M-6 FOR DETAIL.
26. HEAVY DUTY INLET FRAME AND GRATE (NEENAH CAT. NO. R3336 OR APPROVED EQUAL
27. 4" DI WALL PIPE (PE)
28. 4" 90° BEND DI (RJ)
29. 4" WYE DI (MJ)
30. 4" 45° BEND DI (FLG.)
31. PRESSURE GAUGE, SEE DWG. M-6
32. 4" TEE DI (RJ)
33. 2" 90° BEND GALVANIZED STEEL
34. 3/4 " BENT HOSE VALVE W/VACUUM BREAKER (ACORN 8126 OR APPROVED EQUAL) SEE DETAIL 10 ON DWG M-7
35. CONTROL PANEL RACK, SEE SHEET M-6 FOR DETAIL
36. PUSH BUTTON ON/OFF, SEE ELECTRICAL DWGS. FOR DETAILS
37. GUARD POST, TYP., SEE SHT. M-6 FOR DETAILS
38. 6" BLIND FLANGE
39. 8" 90° BEND MJ x PE DI
40. 8" MJ PLUG



PLAN VIEW
SCALE: 1/4" = 1'-0"

NOTES

1. ALL ABOVE GROUND PIPING SHALL BE FLANGED DI.
2. BELOW GROUND PRESSURE PIPING UNLESS OTHERWISE NOTED SHALL BE EITHER DI OR PVC.
3. ALL UNDERGROUND PRESSURE PIPING SHALL BE RESTRAINED TO RESIST THE SYSTEM THRUST.
4. AN ALTERNATE BID ITEM IS BEING SOLICITED FOR GLASS FUSED TO STEEL TANKS IN LIEU OF FACTORY PAINTED TANKS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. SEAL WATER WITH REGULATOR GAUGE AND STRAINER

"RECORD DRAWINGS"

INCORPORATING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS BASED ON DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER.

M-3

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CLIENT	PROJECT	TASK
HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS	HARDEE COUNTY LANDFILL LATERAL EXPANSION AND LEACHATE STORAGE TANK FACILITY	LEACHATE STORAGE TANKS AND TRUCK LOADING PUMP STATION PLAN

ORIGINAL FEB. 1999
REVISIONS:
1 RECORD DWG. 07/01/00
2.
3.
4.
5.
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7.
8.
9.
10.
11.
12.

JOB NO. 07-172.02
DRAWN OV
DESIGN RS
CHECKED CF
Q.C. DBS

SHEET 8/16

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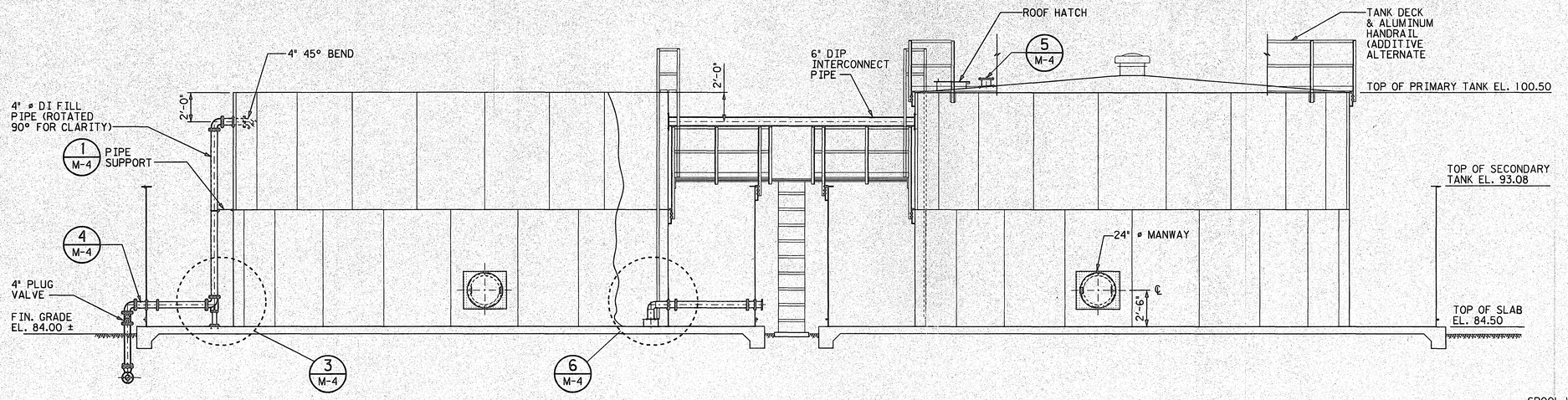
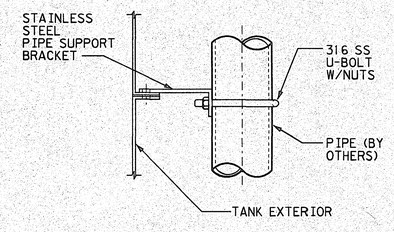
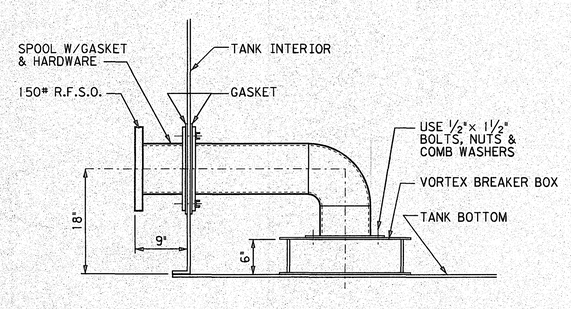
24-JUL-2000 09:26 - - EMP, NO: RC9327



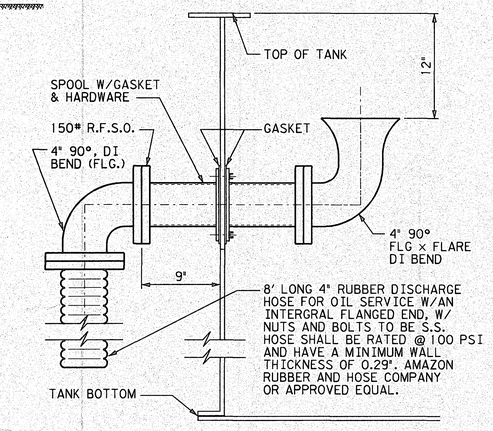
SECTION (A / M-3)
SCALE: 1/4" = 1'-0"



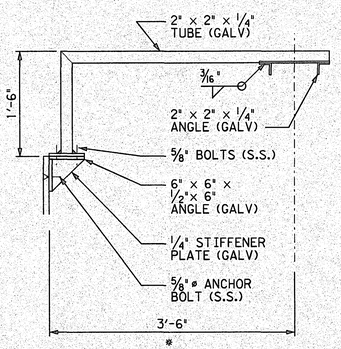
PIPE SUPPORT BRACKET DETAIL (1 / M-4)
SCALE: 1 1/2" = 1'-0"

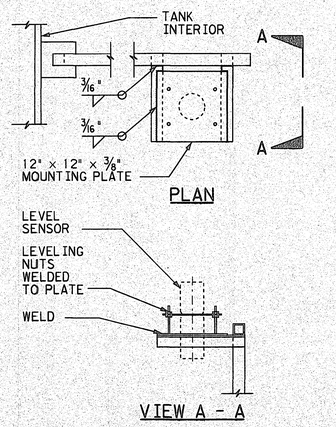


SUCTION LINE DETAIL (6 / M-4)
SCALE: 1" = 1'-0"



4" OVERFLOW DETAIL (7 / M-3)
SCALE: 1 1/2" = 1'-0"

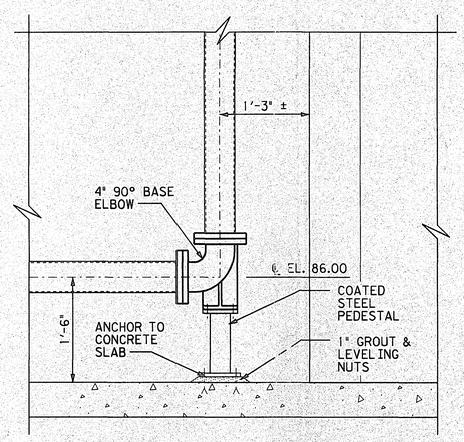




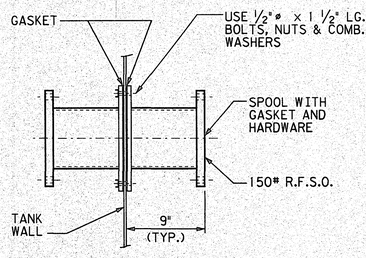
* VERIFY WITH TANK LEVEL SENSOR MANUFACTURER

SUPPORT SHALL BE HOT DIPPED GALVANIZED

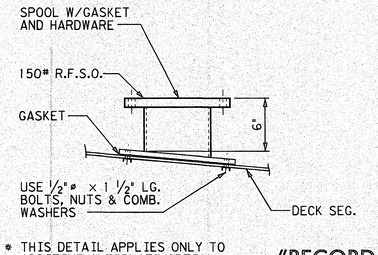
ULTRASONIC LEVEL SENSOR MOUNTING DETAIL FOR OPEN TANK (2 / M-3)
SCALE: 1" = 1'-0"



DETAIL (3 / M-4)
SCALE: 1" = 1'-0"



DOUBLE NOZZLE ON SHELL DETAIL (4 / M-4)
SCALE: 1 1/2" = 1'-0"



* THIS DETAIL APPLIES ONLY TO ADDITIVE ALTERNATE OPTION

ULTRASONIC LEVEL SENSOR DECK MOUNTING NOZZLE (5 / M-4)
SCALE: 1 1/2" = 1'-0"

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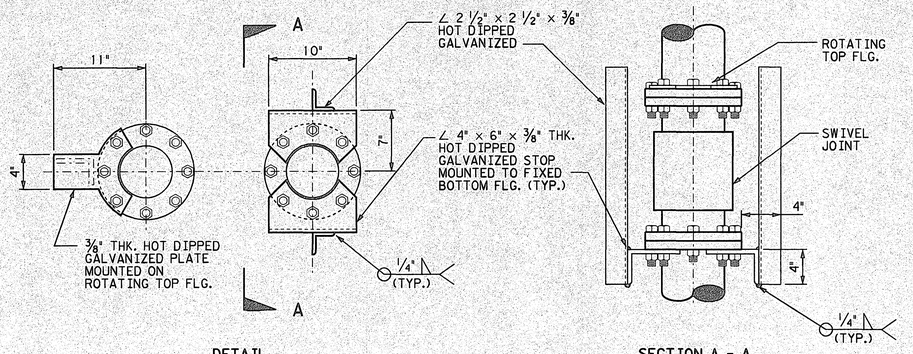
CLIENT	PROJECT	TASK
HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS	HARDEE COUNTY LANDFILL LATERAL EXPANSION AND LEACHATE STORAGE TANK FACILITY	LEACHATE STORAGE TANKS SECTIONS AND DETAILS

ORIGINAL FEB. 1999
REVISIONS:
⚠1 RECORD DWG 07/01/00
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.

JOB NO. 07-172.02
DRAWN OV
DESIGN RS
CHECKED CF
Q.C. DBS

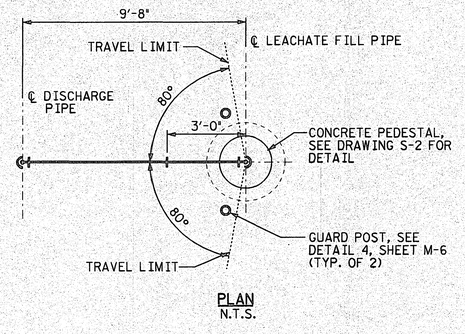
SHEET 9/16

M:\DWG\DOCUMENT\WASTEMAN\HARDEE CONSTRUCTION\RECORDDWG\L TANK-M4.DGN
24-JUL-2000 09:25 · · · EMP. NO: RC9327



DETAIL

SECTION A - A



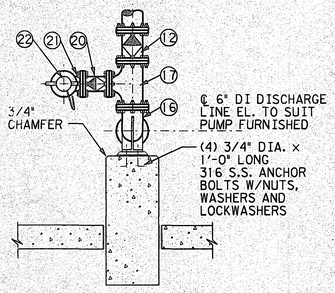
PLAN
N.T.S.

LEACHATE FILL PIPE TRAVEL LIMIT STOP DETAIL AND PLAN (1)

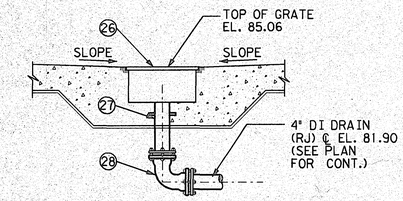
SCALE: 1 ½" = 1'-0"

EQUIPMENT AND FITTING SCHEDULE

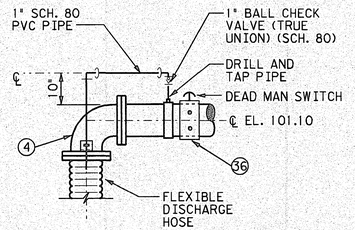
1. 8" x 6" FLEXIBLE EXPANSION ECCENTRIC REDUCER (FLG.) (TOP LEVEL)
2. 8" PLUG VALVE W/GEAR OPERATOR & HANDWHEEL (FLG.)
3. 8" 90° BEND DI (FLG.)
4. 6" 90° BEND DI (FLG.)
5. 8" PLUG VALVE (RJ) W/VALVE BOX SEE SHT. M-6 FOR DETAIL
6. 8" TEE DI (RJ)
7. 8" TEE DI (FLG.)
8. 8" 90° BEND DI (RJ)
9. 6" x 4" 90° BEND DI (FLG.)
10. 6" FLEXIBLE EXPANSION JOINT (FLG.) WITH RESTRAINING RODS.
11. 6" SWING CHECK VALVE (FLG.)
12. 6" PLUG VALVE W/GEAR OPERATOR & HANDWHEEL (FLG.)
13. 6" CROSS DI (FLG.)
14. EMERGENCY EYEWASH & SHOWER, SEE SHT. M-6 FOR DETAILS
15. 8" FLEX EXPANSION JOINT W/ RESTRAINING ROD
16. 6" 90° BASE BEND DI (FLG.)
17. 6" x 4" TEE DI (FLG.)
18. 8" 90° FLG x FLARE BEND DI.
19. 4" JOSAM FLOOR DRAIN SERIES 32200 WITH BWV JOSAM SERIES 67100A, GALVANIZED, NO HUB.
20. 4" PLUG VALVE W/LEVER OPERATOR (FLG.)
21. 4" 90° BEND DI (FLG.)
22. 4" ALUMINUM CAM & GROOVE MALE ADAPTER (FLG.) W/DUST CAP AND ST. STL. CHAIN
23. 8' LONG 4" RUBBER DISCHARGE HOSE FOR OIL SERVICE W/AN INTERGRAL FLANGED END, W/ NUTS AND BOLTS TO BE S.S. HOSE SHALL BE RATED @ 100 PSI AND HAVE A MINIMUM WALL THICKNESS OF 0.29". AMAZON RUBBER AND HOSE COMPANY OR APPROVED EQUAL.
24. 6" SWIVEL JOINT (FLG.) W/S.S FLANGE, NUT & BOLTS, SEE SHT. M-5 FOR TRAVEL LIMIT STOP DETAIL.
25. PIPE FLANGE SUPPORT, SEE SHT. M-6 FOR DETAIL.
26. HEAVY DUTY INLET FRAME AND GRATE (NEENAH CAT. NO. R3336 OR APPROVED EQUAL
27. 4" DI WALL PIPE (PE)
28. 4" 90° BEND DI (MJ)
29. 4" WYE DI (MJ)
30. 4" 45° BEND DI (FLG)
31. PRESSURE GAUGE
32. 4" TEE DI (MJ)
33. 2" 90° BEND GALVANIZED STEEL
34. ¾" BENT HOSE VALVE W/VACUUM BREAKER (ACORN 8126 OR APPROVED EQUAL) SEE DETAIL 10 ON DWG M-7
35. CONTROL PANEL RACK, SEE SHEET M-6 FOR DETAIL
36. PUSH BUTTON ON/OFF, SEE ELECTRICAL DWGS. FOR DETAILS
37. GUARD POST, TYP., SEE SHT. M-6 FOR DETAILS
38. 6" BLIND FLANGE
39. 8" 90° BEND MJ x PE DI.
40. 8" MJ PLUG



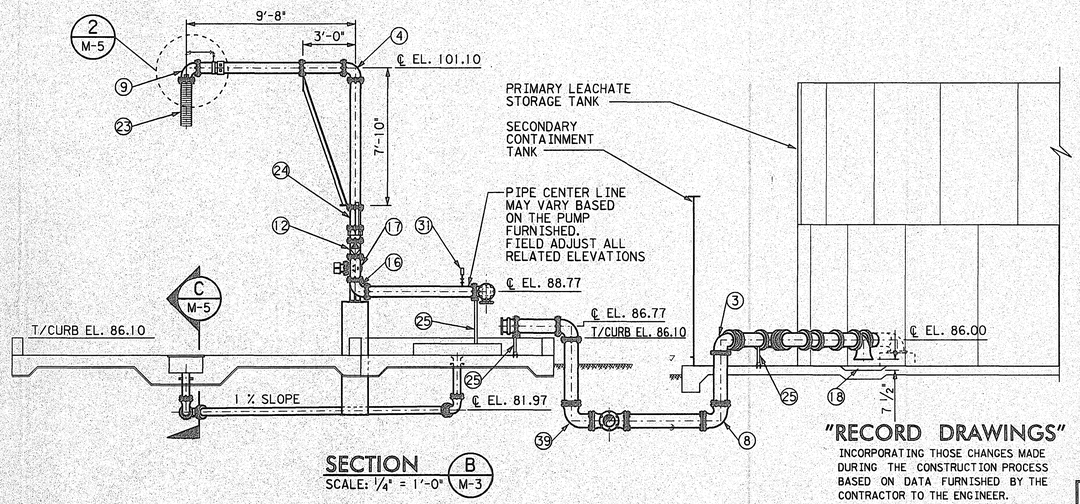
SECTION (A) SCALE: ½" = 1'-0" M-3



SECTION (C) SCALE: ½" = 1'-0" M-5



DETAIL (2) SCALE: N.T.S. M-5



SECTION (B) SCALE: ¼" = 1'-0" M-3

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Department of Community Construction
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CLIENT	PROJECT	TASK
HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS	HARDEE COUNTY LANDFILL LATERAL EXPANSION AND LEACHATE STORAGE TANK FACILITY	TRUCK LOADING FACILITY AND PUMP STATION SECTIONS, DETAILS AND SCHEDULE

ORIGINAL FEB. 1999
REVISIONS:
1. ⚠RECORD DWG 07/01/00
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.

JOB NO. 07-172.02
DRAWN OV
DESIGN RS
CHECKED CF
Q.C. DBS

SHEET 10/16

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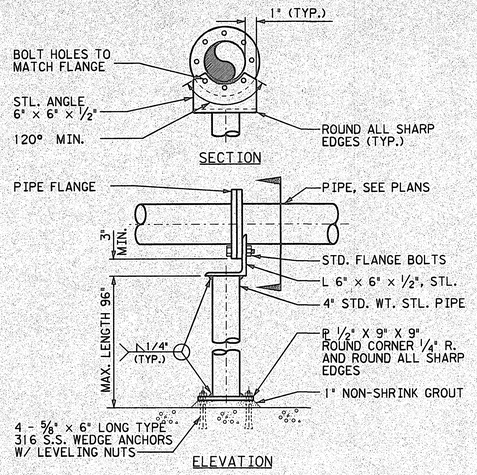
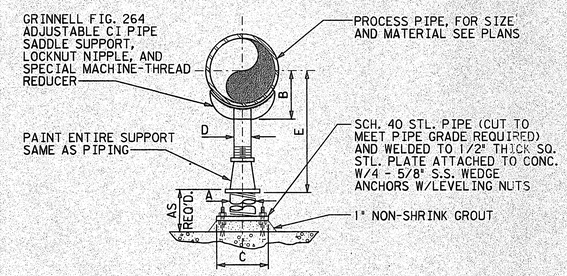


NOTE:

1. HOT DIP GALVANIZE ENTIRE SUPPORT AFTER FABRICATION.
2. ALL BOLT HOLES SHALL BE SHOP DRILLED PRIOR TO GALVANIZING.
3. PIPE SUPPORT SUITABLE FOR PIPE SIZES FROM 3" UP TO 24".

PIPE FLANGE SUPPORT DETAIL 1

SCALE: N.T.S.



NOTES

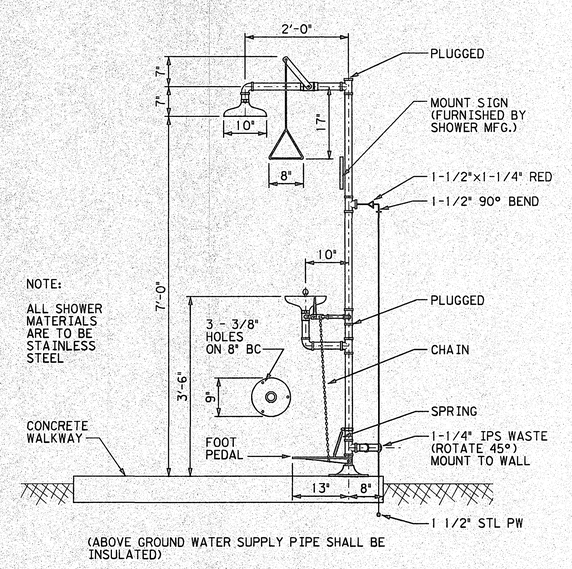
1. PROVIDE INSULATION PROTECTION SHIELD, SIMILAR TO GRINELL FIG. 167, WHEN PIPING IS INSULATED.
2. PROVIDE 1/4" NEOPRENE ISOLATION PAD BETWEEN THE SADDLE AND THE PIPE BARREL.
3. FOR BASE, HEIGHT AND FLANGE DIMENSIONS, SEE TABLE AT RIGHT.
4. HOT-DIP GALVANIZE THE SADDLE/ NIPPLE, REDUCER, AND PIPE W/BASE SEPARATELY; ASSEMBLE IN FIELD TO MEET PIPE GRADE SHOWN ON PLANS.
5. ADJUST HEIGHT THROUGH USE OF LEVELING NUTS.

PIPE SIZE	A	B	C	D	E MIN.	E MAX.
2 1/2	2 1/2	3 1/2	9	1 1/2	8	13
3	2 1/2	3 3/4	9	1 1/2	8 1/4	13 1/4
3 1/2	2 1/2	4	9	1 1/2	8 1/2	13 1/2
4	3	4 1/4	9	2 1/2	9 1/4	14
5	3	4 7/8	9	2 1/2	10	14 3/4
6	3	5 1/2	9	2 1/2	10 1/2	15 1/4
8	3	6 7/8	9	2 1/2	11 3/4	16 1/2
10	3	8 1/2	9	2 1/2	13 1/2	18 1/4
12	3	9 15/16	9	2 1/2	15	19 3/4
14	4	10 15/16	9	3	16 1/4	20 3/4
16	4	12 3/8	9	3	17 3/4	22 1/4
18	6	13 7/8	11	3 1/2	19 1/2	24
20	6	15 3/8	11	3 1/2	21	25 1/2
24	6	17 15/16	11	4	23 3/4	28 1/4

(DIMENSIONS IN INCHES)

PIPE SUPPORT 2

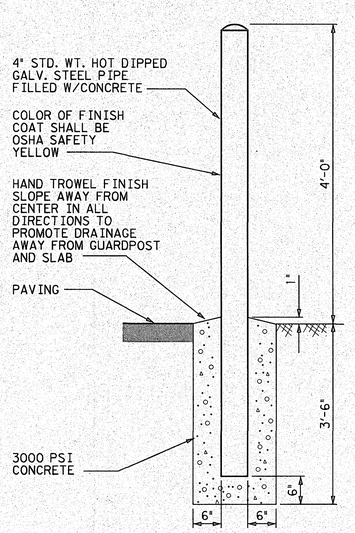
SCALE: N.T.S.



(ABOVE GROUND WATER SUPPLY PIPE SHALL BE INSULATED)

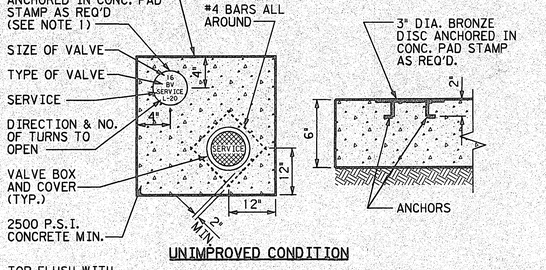
EMERGENCY SHOWER/EYE-WASH 3

SCALE: N.T.S.



GUARDPOST DETAIL 4

SCALE: N.T.S.

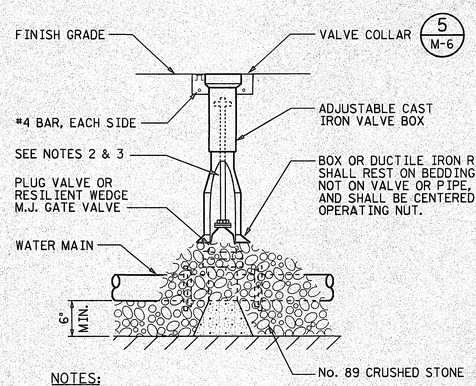


NOTES:

1. BRONZE IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES 16" AND LARGER, OR AS REQUIRED BY THE COUNTY FOR CRITICAL OFFSITE VALVES.
2. VALVE COLLAR DIMENSIONS MAY BE REDUCED TO 18" X 18" X 6" WHEN THE BRONZE IDENTIFICATION DISC IS NOT REQUIRED.

VALVE COLLAR DETAIL 5

SCALE: N.T.S.

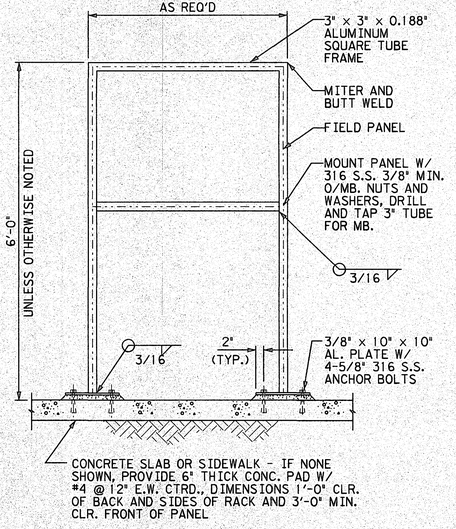


NOTES:

1. VALVE BOX RISER EXTENSIONS SHALL BE DUCTILE IRON PIPE.
2. THE OPERATING NUT FOR VALVES SHALL BE 4' MAX. BELOW FINISH GRADE OR PROVIDE EXTENSION ROD, W/ NUT 6" BELOW FINISH GRADE.
3. OPERATING NUT EXTENSION ROD SHALL BE FABRICATED FROM STEEL 1- 1/2" SCHED. 40 PIPE, W/4" DIA. x 1/4" PLATE WELDED BENEATH TOP NUT, (OR APPROVED EQUAL).
4. IN PAVED AREAS BRONZE DISC SHALL BE EMBEDDED IN A 4" x 4" x 18" CONCRETE POST INSTALLED ADJACENT TO, AND FLUSH WITH, VLAVE BOX.

PLUG VALVE OR GATE VALVE & BOX DETAIL 6

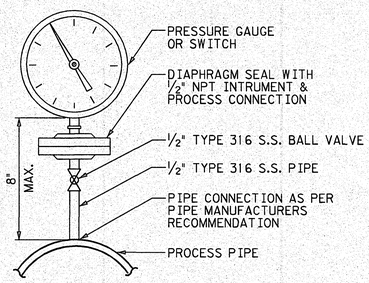
SCALE: N.T.S.



PANEL MOUNTING RACK 7

SCALE: N.T.S.

(NOT REQUIRED FOR FLOOR MOUNTED PANELS)



PRESSURE ELEMENT DIRECT MOUNT W/DIAPHRAM SEAL INSTALLATION 8

SCALE: N.T.S.

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CLIENT	PROJECT	TASK
HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS	HARDEE COUNTY LANDFILL LATERAL EXPANSION AND LEACHATE STORAGE TANK FACILITY	MISCELLANEOUS DETAILS

ORIGINAL FEB. 1999
REVISIONS:
1. RECORD DWG 07/01/00
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.

JOB NO. 07-172.02
DRAWN OV
DESIGN RS
CHECKED CF
Q.C. DBS

SHEET 11/16

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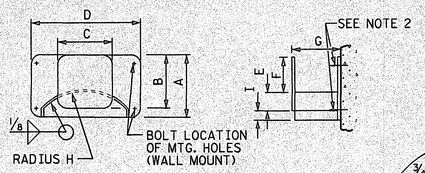
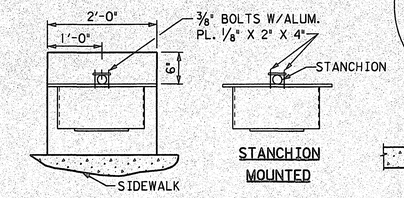
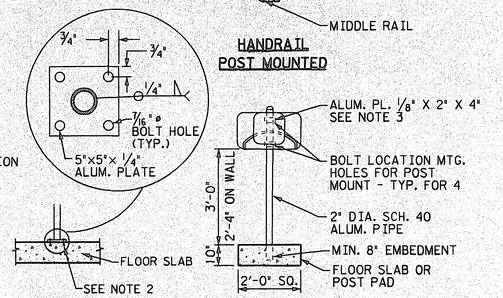


WALL MOUNTED

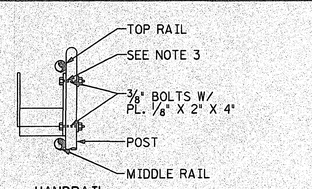


STANCHION MOUNTED

PLAN - POST MOUNTED W/PAD



ELEVATION - POST MOUNTED



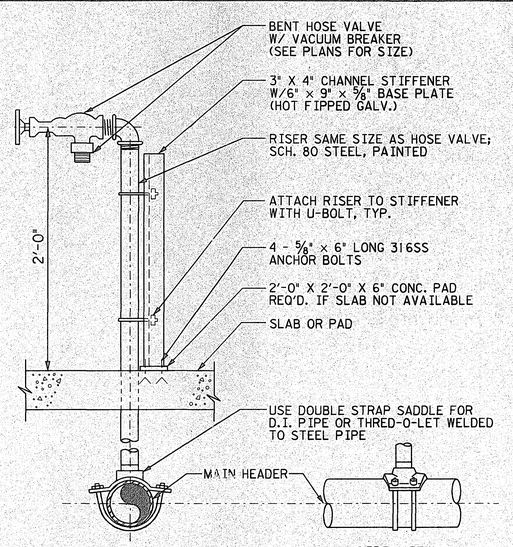
HANDRAIL POST MOUNTED

RACK TYPE	DIMENSION IN INCHES (SEE NOTE 4)								
	A	B	C	D	E	F	G	H	I
RACK FOR 3/4" HOSE	10 1/2	9	9	18	3	6	7 1/2	9 3/4	1 1/2
RACK FOR 1 1/2" HOSE	14	12	12	24	4	8	10	13	2

NOTES:

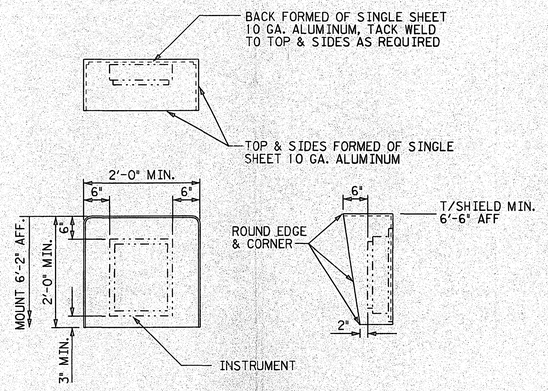
1. ALL UNITS SHALL BE FABRICATED FROM 1/8" 6061-T6 ALUMINUM ALLOY PLATE.
2. ATTACH TO CONCRETE WALL W/4 -1/4" STAINLESS STEEL STUD TYPE WEDGE ANCHORS.
3. ATTACH TO VERTICAL HANDRAIL OR INDIVIDUAL POST W/PLATES AND 4 -1/4" S.S. BOLTS.
4. VERIFY DIMENSIONS WITH THE HOSE FURNISHED FOR SIZING. INSERT DOUBLE SPACER NUTS BETWEEN COLUMN AND HOSE RACK.
5. FURNISH 50'-0" LONG 3/4" DIA. ABRASION AND WEATHER RESISTANT (0.37 lb./LF.) EPDM RED COVER RAYON BRAIDED HOSE WITH ADJUSTABLE BRASS HOSE NOZZLE ON ONE END AND MALE x FEMALE (NPT) OF SERIES 316 S.S. QUICK CONNECT ON THE OTHER END TO MATCH HOSE BIBB. HOSE AND FITTING SHALL BE SUPPLIED BY AMAZON HOSE & RUBBER CO. OR APPROVED EQUAL.

HOSE RACK DETAIL (9)
SCALE: N.T.S.



SIDE VIEW

EXTERIOR HOSE VALVE (10)
SCALE: N.T.S.



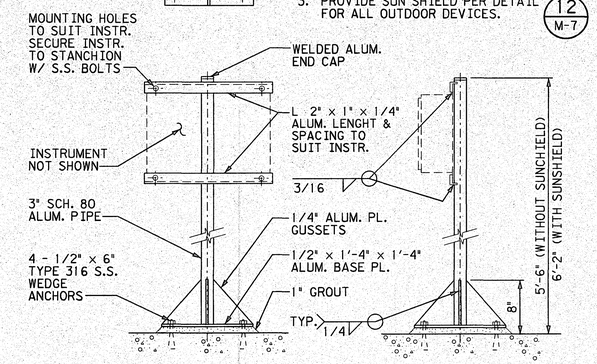
NOTES:

1. EXPOSED EDGES TO BE GROUND SMOOTH AND BURR FREE.
2. MOUNT SUN SHIELD BETWEEN INSTRUMENT AND MOUNMTING SUPPORT. DRILL HOLES IN SUN SHIELD AS PER MOUNTING HOLES FOR INSTRUMENT.
3. PROVIDE SUN SHIELD FOR ALL OUTDOOR INSTRUMENT ENCLOSURES (FLOW & LEVEL TRANSMITTERS, ETC.) EXPOSED TO SUNLIGHT MOUNTED TO WALLS, HANDRAILS, OR ON STANCHIONS OR RACKS.

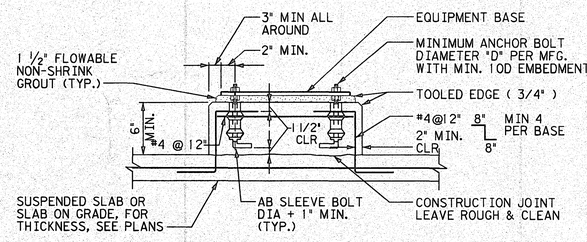
INSTRUMENT SUN SHIELD INSTALLATION (12)
SCALE: N.T.S.

NOTES:

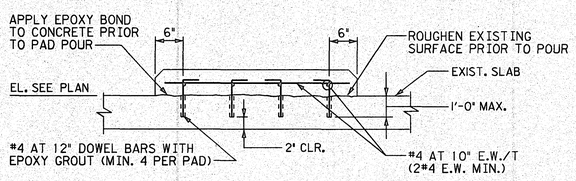
1. ROUND OFF EXPOSED EDGES, GROUND SMOOTH, AND BURR FREE.
2. PROVIDE STANCHION FOR EACH INSTRUMENT ENCLOSURE NOT MOUNTED TO WALLS.
3. PROVIDE SUN SHIELD PER DETAIL (12) M-7 FOR ALL OUTDOOR DEVICES.



STANCHION SUPPORT FOR CASE MOUNTED INSTRUMENTS (11)
SCALE: N.T.S.



CONCRETE PAD "TYPE A"



CONCRETE PAD "TYPE B"

EQUIPMENT PAD NOTES:

1. PAD SIZE SHALL BE AS SHOWN ON THE PLANS OR AS DETERMINED BY THE EQUIPMENT MANUFACTURER AND APPROVED BY THE ENGINEER.
2. THE SIZE, NUMBER, TYPE, LOCATION, AND THREAD PROJECTION OF ANCHOR BOLTS SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER, AND SHALL BE AS APPROVED BY THE ENGINEER. ANCHOR BOLTS SHALL BE HELD IN POSITION WITH A TEMPLATE WHILE PAD IS BEING POURED.
3. FOR CONCRETE PAD LOCATION, SEE MECHANICAL DRAWINGS. EQUIPMENT BASES SHALL BE INSTALLED LEVEL UNLESS SPECIFIED OTHERWISE.
4. ALL ANCHOR BOLTS SHALL BE TYPE 316 STAINLESS STEEL.

EQUIPMENT CONCRETE PAD DETAIL (13)
SCALE: N.T.S.

"RECORD DRAWINGS"

INCORPORATING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS BASED ON DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER.

M-7

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CLIENT	PROJECT	TASK
HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS	HARDEE COUNTY LANDFILL LATERAL EXPANSION AND LEACHATE STORAGE TANK FACILITY	MISCELLANEOUS DETAILS

ORIGINAL FEB. 1999
REVISIONS:
1. RECORD DWG 07/01/00
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.

JOB NO. 07-172.02
DRAWN OV
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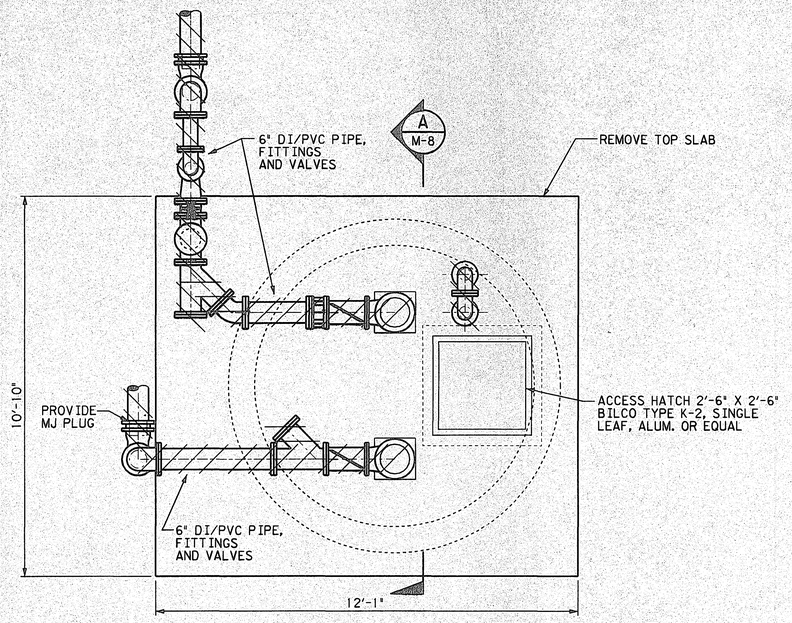
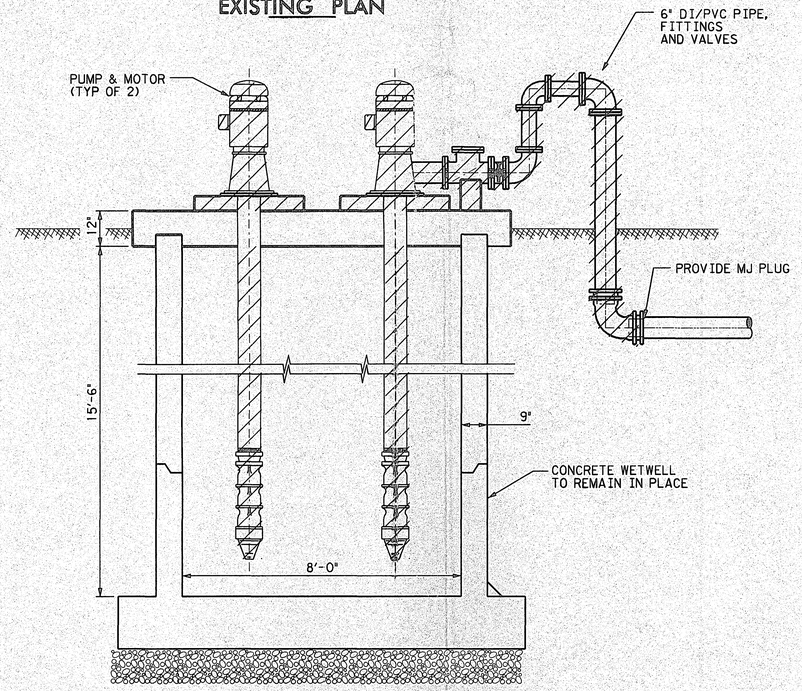
24-JUL-2000 09:24 --- EMP. NO: RC9327



EXISTING PLAN



SECTION A

DEMOLITION NOTES:

1. CONTRACTOR SHALL DISMANTLE ALL EQUIPMENT AND PIPING AS SHOWN HATCHED. EQUIPMENT AND PIPING SHALL BE SALVAGED AS DIRECTED BY THE OWNER.
2. CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO PROTECT THE WETWELL WHILE REMOVING THE TOP SLAB.

"RECORD DRAWINGS"

INCORPORATING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS BASED ON DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER.

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CLIENT	PROJECT	TASK
HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS	HARDEE COUNTY LANDFILL LATERAL EXPANSION AND LEACHATE STORAGE TANK FACILITY	EXISTING LEACHATE PUMP STATION DEMOLITION PLAN

ORIGINAL FEB. 1999
REVISIONS:
1. RECORD DWG 07/01/00
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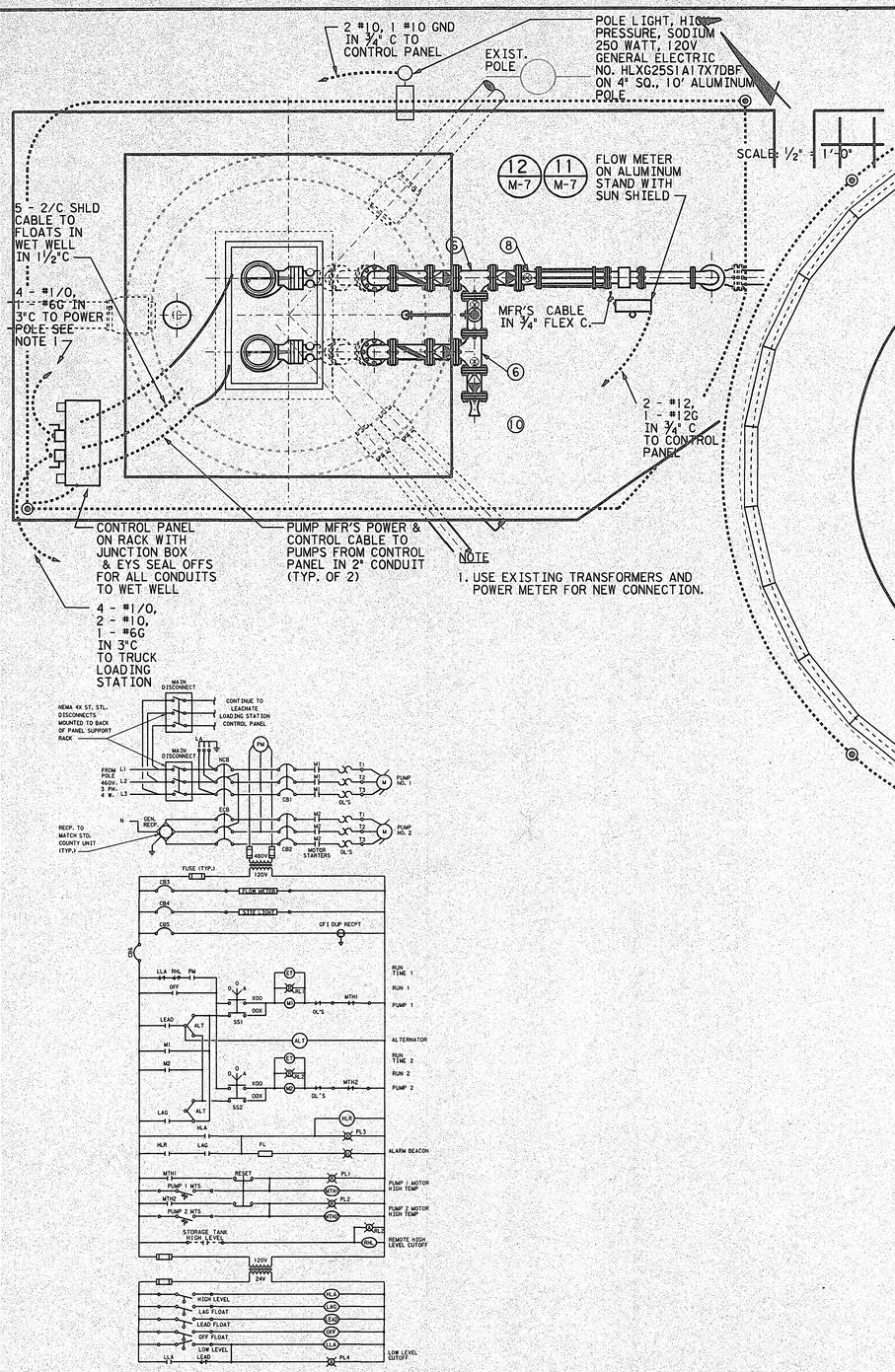
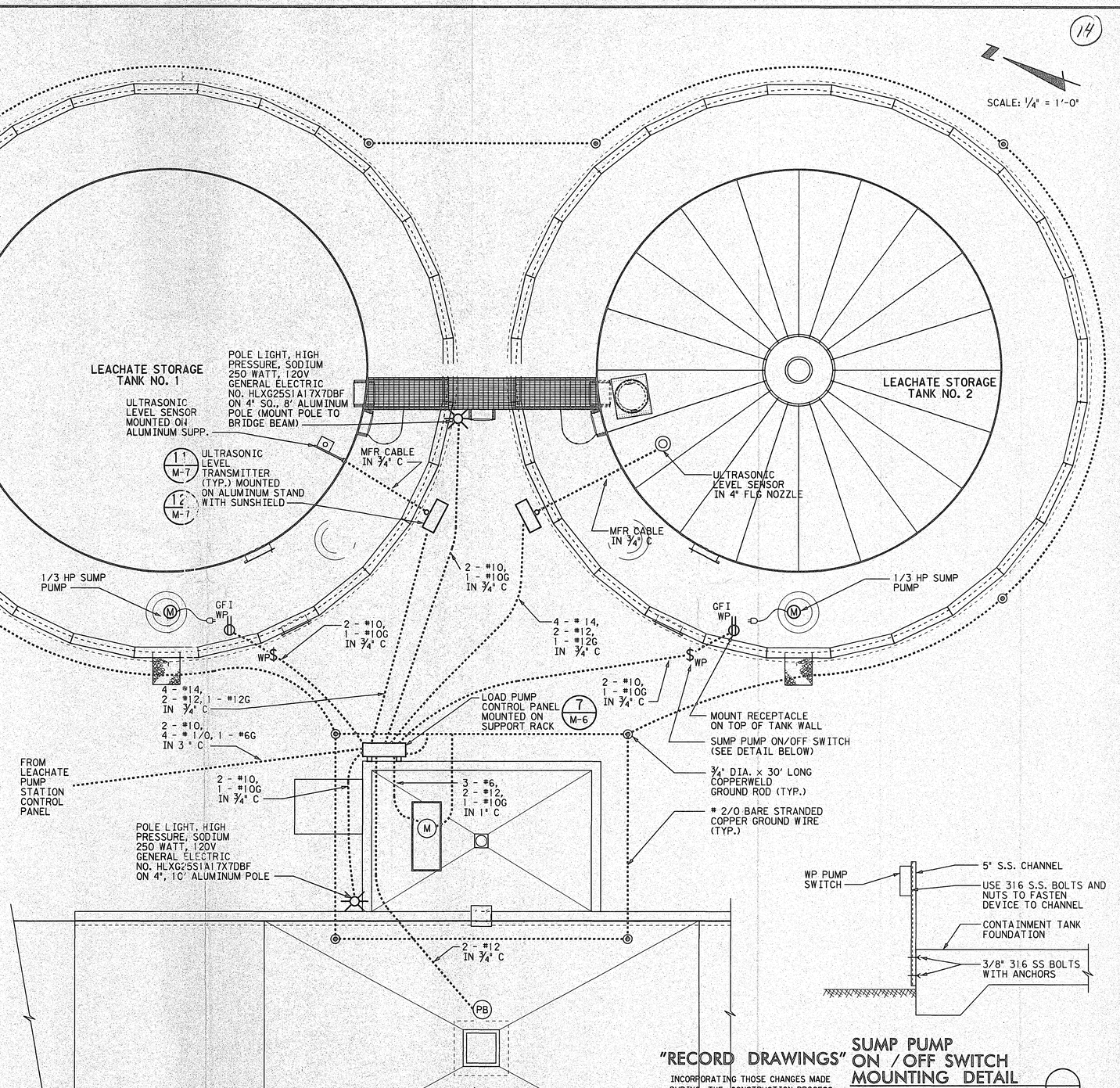


SUBMERSIBLE PUMP CONTROL PANEL WIRING DIAGRAM

TRUCK LOADING PUMP CONTROL PANEL WIRING DIAGRAM



PLAN VIEW
SCALE: ¼" = 1'-0"

SUMP PUMP ON/OFF SWITCH MOUNTING DETAIL
SCALE: N.T.S.

"RECORD DRAWINGS"
INCORPORATING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS BASED ON DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER.

E-1

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CLIENT	PROJECT	TASK
HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS	HARDEE COUNTY LANDFILL LATERAL EXPANSION AND LEACHATE STORAGE TANK FACILITY	LEACHATE STORAGE TANKS PUMP STATION AND LIFT STATION ELECTRICAL PLAN

ORIGINAL FEB. 1999
REVISIONS:
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COORDINATION

CONTRACTOR TO COORDINATE ALL PIPE AND CONDUIT LOCATIONS THRU CONCRETE WITH CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO PLACING CONCRETE. MECHANICAL CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL ANCHOR BOLT LOCATIONS.

STRUCTURAL DRAWINGS SHALL BE WORKED TOGETHER WITH CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS TO PROPERLY LOCATE DRAINS, SLOPES, WALL PIPES, PIPE SLEEVES, ANCHOR BOLTS, BLOCKOUTS, ETC. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

THE DRAWINGS SHOW SECTIONS AND DETAILS FOR SPECIFIC CONDITIONS. THE SECTIONS AND DETAILS ARE TO APPLY TO OTHER SIMILAR CONDITIONS BUT NOT SPECIFICALLY SHOWN.

THE DRAWINGS SHALL BE WORKED TOGETHER WITH THE PROJECT SPECIFICATIONS.

PRECAUTIONS

CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT FLOTATION OF STRUCTURES UNTIL CONSTRUCTED AND ALL BACKFILL IS IN PLACE AND COMPACTED.

NO BACKFILL SHALL BE PLACED AGAINST ANY STRUCTURE WALL UNTIL THE WALL HAS ATTAINED THE SPECIFIED 28-DAY CONCRETE STRENGTH.

CONTRACTOR'S ATTENTION IS HEREWITH DIRECTED TO PROJECT SPECIFICATIONS SECTION 03800 TITLED "LEAKAGE TESTING OF HYDRAULIC STRUCTURES".

CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT UNDERMINING THE FOUNDATION OF EXISTING STRUCTURES DURING CONSTRUCTION.

DESIGN CRITERIA AND LOADINGS

DESIGN CRITERIA:

SANITARY STRUCTURES.....ACI 350R CONCRETE SANITARY ENGINEERING STRUCTURES

OTHER STRUCTURES.....ACI 318-92 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE

LOCAL BUILDING CODE.....STANDARD BUILDING CODE-1994 EDITION.

DESIGN LIVE LOADS:

SEWAGE/SLUDGE.....PER ACI 350R

PLATES GRATING AND STAIRS.....100 PSF

WIND.....PER STANDARD BUILDING CODE (FOR 110 MPH)

BUILDING ROOFS.....20 PSF

GEOTECHNICAL LOADINGS:

NET ALLOWABLE SOIL BEARING PRESSURE.....3,00 PSF

FOUNDATION DESIGN AND CONSTRUCTIN CRITERIA AS PER HARDEE COUNTY SANITARY LANDFILL SUBSURFACE SOIL EXPLORATIN, "AS PREPARED DATED MARCH 10, 1997 PSI PROJECT NO. 757-75054."

CAST-IN-PLACE CONCRETE

CAST-IN-PLACE CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:

WASTEWATER AND WATER RETAINING STRUCTURES.....4,000 PSI (CLASS A)

BUILDINGS, PIPE SUPPORTS, PUMP PADS, ENCASEMENTS.....3,000 PSI (CLASS B)

CONCRETE PLACEMENT SEQUENCE

CONRETE SHALL BE PLACED IN ACCORDANCE WITH THE EXPANSION CONSTRUCTION AND CONTRACTION JOINT LAYOUTS SHOWN ON THE DRAWINGS, UNLESS OTHERWISE APPORVED. ALLOW A MINIMUM OF 72 HOURS BETWEEN ADJACENT SLAB AND WALL SEGMENT POURS.

CONCRETE CHAMFER

ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4" x 3/4" INCHES UNLESS OTHERWISE INDICATED.

REINFORCING STEEL

REINFORCING STEEL FOR ALL BARS SHALL CONFORM TO ASTM A615, GRADE 60 OF U.S. MANUFACTURE.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.

REINFORCEMENT CLEARANCE

CLEARANCE OR RENIFORCEING STEEL FROM FACE OF CONCRETE TO THE OUTERMOST TIE OR BAR SHALL BE AS FOLLOWS, UNLESS OTHERWISE INDICATED ON THE DRAINGS

FOOTINGS.....2" TOP AND SIDES
3" BOTTOM WHEN CAST AGAINST EARTH

WALLS.....2" TOP AND SIDES

BEAMS AND COLUMS.....2" TO TIES

SLABS.....2" TOP AND SIDES
3" BOTTOM WHEN CAST AGAINST EARTH

STRUCTURAL STEEL

STRUCTURAL AND MISCELLANEOUS STEEL (PLATES, BARS, ETC.) SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE NOTED.

STEEL SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123.

ANCHOR BOLTS SHALL CONFORM TO ASTM A307 (GALVANIZED).

WEDING ELECTRODES SHALL CONFORM TO AWS 5.1 OR A5.5, E70XX.

STAINLESS STEEL

STRUCTURAL SHAPES, PLATES, NUTS AND BOLTS, ETC. SHALL CONFORM TO AISI TYPE OR 316 UNLESS OTHERWISE NOTED ON THE DRAWINGS.

WELDING ELECTRODES SHALL CONFORM TO AWS E308-15 WHERE BASE MAETAL STAINLESS STEEL IS USED AND AWS E309 WHERE STAINLESS STEEL IS WELDED TO CARBON STEEL.

STRUCTURAL ALUMINUM

STRUCTURAL AND MISCELLANEOUS ALUMINUM (PLATES, RAILINGS, BARS, ETC.) SHALL CONFORM TO ASTM B221, ALLOY 6061-T6.

WELDING ELECTRODES SHALL CONFORM TO AWS D1.1.

ALUMINUM EMBEDDED IN OR IN CONTACT WITH CONCRETE, OR IN CONTACT WITH DIFFERENT METALS (STEEL) SHALL BE COATED IN ACCORDANCE WITH SECTION 05140 OF PROJECT SPECIFICATIONS.

ALUMINUM GRATING

GRATING SHALL BE ALUMINUM AS SHOWN ON THE DRAWINGS, AND AS PER SECTIONS 05530 OF THE PROJECT SPECIFICATONS. ALL GRATING SHALL BE REMOVABLE "SLIP-RESISTANT" SERRATED TYPE.

MASONRY

MASONRY SHALL CONFORM TO DIVISION 4 OF THE PROJECT SPECIFICAITONS.

SHOP DRAWINGS

THE FOLLOWING SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW. FABRICATION SHALL NOT COMMENCE UNTIL ALL REVIEWS ARE COMPLETED.

* REINFORCING STEEL
* STRUCTURAL STEEL
* STAINLESS STEEL
* ALUMINUM SHAPES, GRATING, HANDRAILING, TEC.
* PRECAST CONCRETE

"RECORD DRAWINGS"

INCORPORATING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS BASED ON DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER.

ELEVATIONS

ELEVATIONS SHOWN ON THE DRAWINGS REFERE TO NATINAL GEODETIC VERTICAL DATUM (NGVD) UNLESS OTHERWISE INDICATED. FOR ELEVATINOS NOT SHOWN REFER TO CIVIL (SITE) DRAWINGS.

CONSTRUCTION LAYOUT

FOR THE ACCURATE LOCATION AND ORIENTATION OF STRUCTURES REFER TO CIVIL (SITE) DRAWINGS ONLY. STRUCTURAL DRAWINGS DO NOT NECESSARILY SHOW TRUE LOCATION OF ORIENTATION OF ALL STRUCTURES.

TYPICAL DETAILS

"TYPICAL DETAILS" APPLY AT ALL APPROPRIATE LOCATIONS UNLESS OTHERWISE NOTED ON THE DRAWINGS. "TYPICAL DETAIL" SHEETS, ARE LOCATED AT THE END OF THE STRUCTURAL DRAWING SET.

TANK COATINGS

ALL CONCRETE IN CONTACT WITH WASTEWATERS SHALL BE COATED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

FOUNDATION PREPARATION

THE FOLLOWING FOUNDATION PREPARATION SHALL BE ADHERED TO, UNLESS OTHERWISE NOTED ON THE DRAWINGS:

REMOVE ALL ORGANIC TOPSOIL, SURFACE VEGETATION, DEBRIS, ETC. AT EACH STRUCTURE SITE FOR A MINIMUM DISTANCE OF 10 FEET OUTSIDE STRUCTURE PERIPHERY.

DEWATER AND EXCAVATE SOIL AROUND AND BELOW THE STRUCTURE AS PER THE PROJECT SPECIFICATIONS. (IF THE BOTTOM OF FOUNDATION IS BELOW THE WATER TABLE, THEN DEWATERING IS REQUIRED).

COMPACT SUBGRADE TO A DENSITY OF 100 PERCENT OF THE STANDARD PROCTOR TEST (ASTM D-698) AS SPECIFIED TO 3'-0" BELOW THE STRUCTURE AND/OR EXCAVATED SURFACE. COMPACT SUBGRADE FOR A MINIMUM DISTANCE OF 5 FEET OUTSIDE STRUCTURE PERIPHERY.

IF FILL IS REQUIRED, PLACE IN LOOSE LIFTS NOT TO EXCEED 1'-0" AND COMPACT AS NOTED ABOVE.

BACKFILL AND COMPACT AROUND NEW CONSTRUCTION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

ABBREVIATIONS - STRUCTURAL

A.B.	ANCHOR BOLT	H.P.	HIGH POINT
ADD'L. ADD.	ADDITONAL	L.	LONG
ALT.	ALTERNATE	L.P.	LOW POINT
ALUM.	ALUMINUM	M.O.	MASONRY OPENING
ARCH.	ARCHITECT (URAL)	MFR.	MANUFACTURE (ER)
BRG.	BEARING	MAX.	MAXIMUM
BM.	BEAM	MECH.	MECHANICAL
B./ BOT.	BOTTOM	MIN.	MINIMUM
BLDG.	BUILDING	N.T.S.	NOT TO SCALE
COV.	COVER	O.C.	ON CENTER
℄	CENTER LINE	OPNG.	OPENING
CL.	CLEAR (ANCE)	PL.	PLATE
COL.	COLUMN	P.S.F.	POUNDS PER SQUARE FOOT
CONC.	CONCRETE	P.S.I.	POUNDS PER SQUARE INCH
C.M.U.	CONCRETE MASONRY UNIT	REF.	REFERENCE
CONN.	CONNECTION	REINF.	REINFORCE (D) (ING)
C.J.	CONSTRUCTION JOINT	REQ'D.	REQUIRED
CK.	CHECKERED	S.E.	SLAB EDGE
CT.J.	CONTRACTION JOINT	SECT.	SECTION
DET. (S)	DETAIL (S)	SHT.	SHEET
DIAM.	DIAMETER	SP.	SPACE (S)
DN.	DOWN	SPECS.	SPECIFICATIONS
DWGS.	DRAWINGS	SQ.	SQUARE
DWL.	DOWEL	S.S.	STAINLESS STEEL
EQUIPT.	EQUIPMENT	STD.	STANDARD
EA.	EACH	STL.	STEEL
E.E.	EACH END	SYMM.	SYMMETRICAL
E.F.	EACH FACE	T.B.	TIE BEAM
E.W.	EACH WAY	T.C.	TIE COLUMN
EL.	ELEVATION	T. & B.	TOP AND BOTTOM
EQ. SP.	EQUAL SPACED	T/	TOP OF
E.J.	EXPANSION JOINT	TYP.	TYPICAL
F.D.	FLOOR DRAIN	U.O.N.	UNLESS OTEHRWISE NOTED
FIN. GR.	FINISH GRADE	VERT.	VERTICAL
FT.	FOOT	W.F.	WALL FOOTING
FTG.	FOOTING	WS.	WATERSTOP
FND.	FOUNDATION	W/	WITH
GALV.	GALVANIZED	W.P.	WORKING POINT
HOR.	HORIZONTAL		

S-1

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CLIENT	PROJECT	TASK
HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS	HARDEE COUNTY LANDFILL LATERAL EXPANSION AND LEACHATE STORAGE TANK FACILITY	GENERAL NOTES

ORIGINAL FEB. 1999
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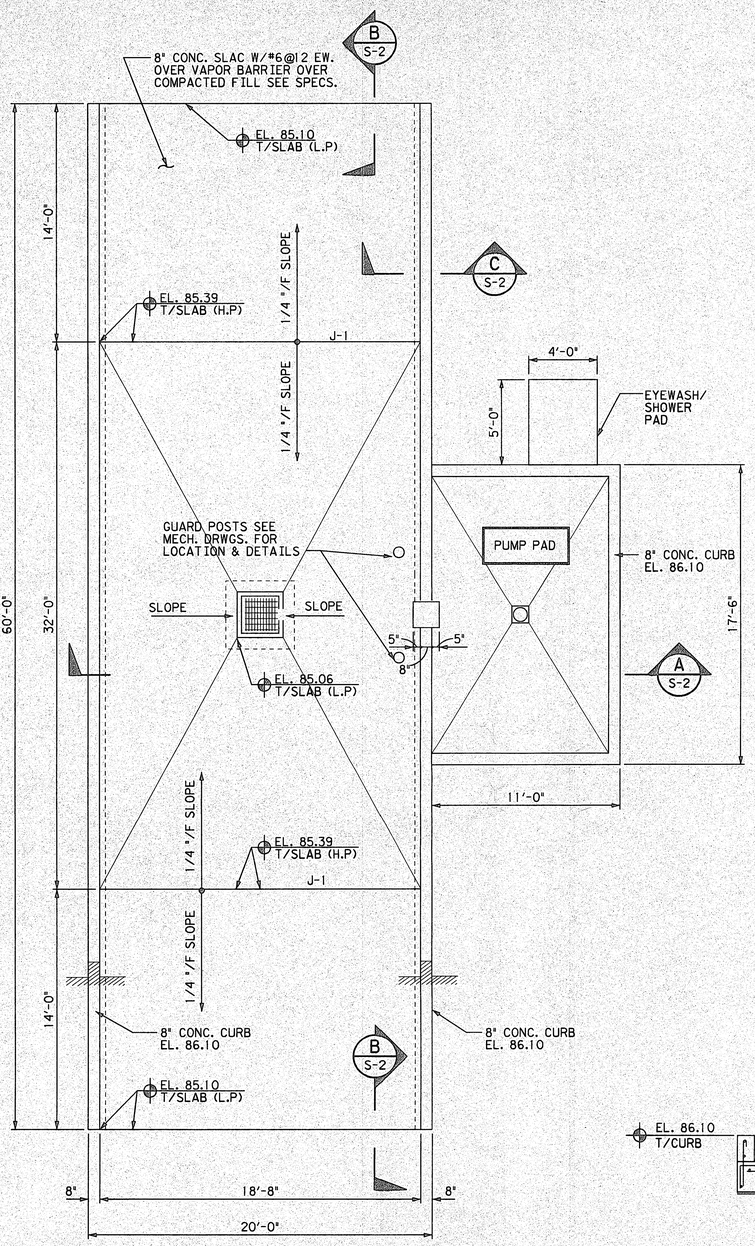
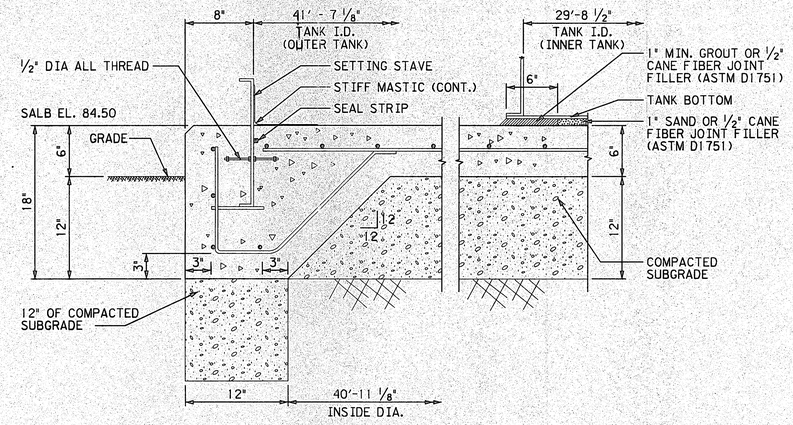
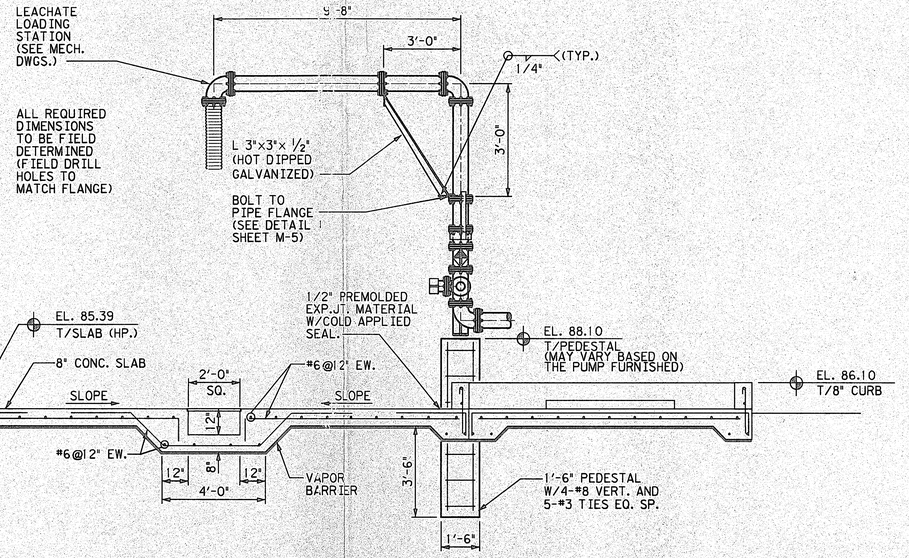


FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

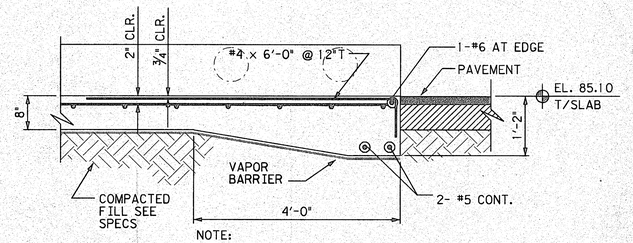


LEACHATE TANK FOUNDATION GENERAL ARRANGEMENT
SCALE: 1 1/2" = 1'-0" (1 / -)

(LEACHATE TANK MANUFACTURER SHALL PROVIDE SIGNED AND SEALED FOUNDATION DESIGN CALCULATIONS)

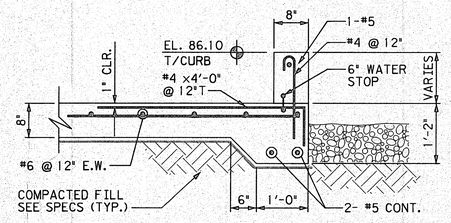


SECTION
SCALE: 3/8" = 1'-0" (A / S-2)

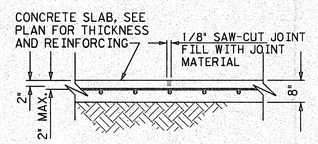


NOTE:
FOR SLAB REINFORCEMENT REFERE TO SECTIN "B" THIS SHEET

SECTION
SCALE: 3/4" = 1'-0" (B / -)



SECTION
SCALE: 3/4" = 1'-0" (C / -)



TYPICAL CONTROL JOINT J-1 DETAIL
N.T.S.

"RECORD DRAWINGS"
INCORPORATING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS BASED ON DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER.

S-2

PBS&J
1560 N. Orange Avenue
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Winter Park, FL 32789
Tel. (407) 647-7275
Fax. (407) 647-0624
www.pbsj.com

CLIENT	PROJECT	TASK
HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS	HARDEE COUNTY LANDFILL LATERAL EXPANSION AND LEACHATE STORAGE TANK FACILITY	TRUCK LOADING FACILITY AND PUMP STATION PLAN, SECTIONS AND DETAILS

ORIGINAL FEB. 1999
REVISIONS:
1 RECORD DWG. 07/01/00
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.

JOB NO. 07-172.02
DRAWN OV
DESIGN RS
CHECKED CF
Q.C. DBS
SHEET 16/16

H:\ENCADD\WASTEMAN\HARDEE\CONSTRUCT\DAN\RECORDWG\LTANK-S2.DGN
24-JUL-2000 09:29 ... EMP. NO: RC9327

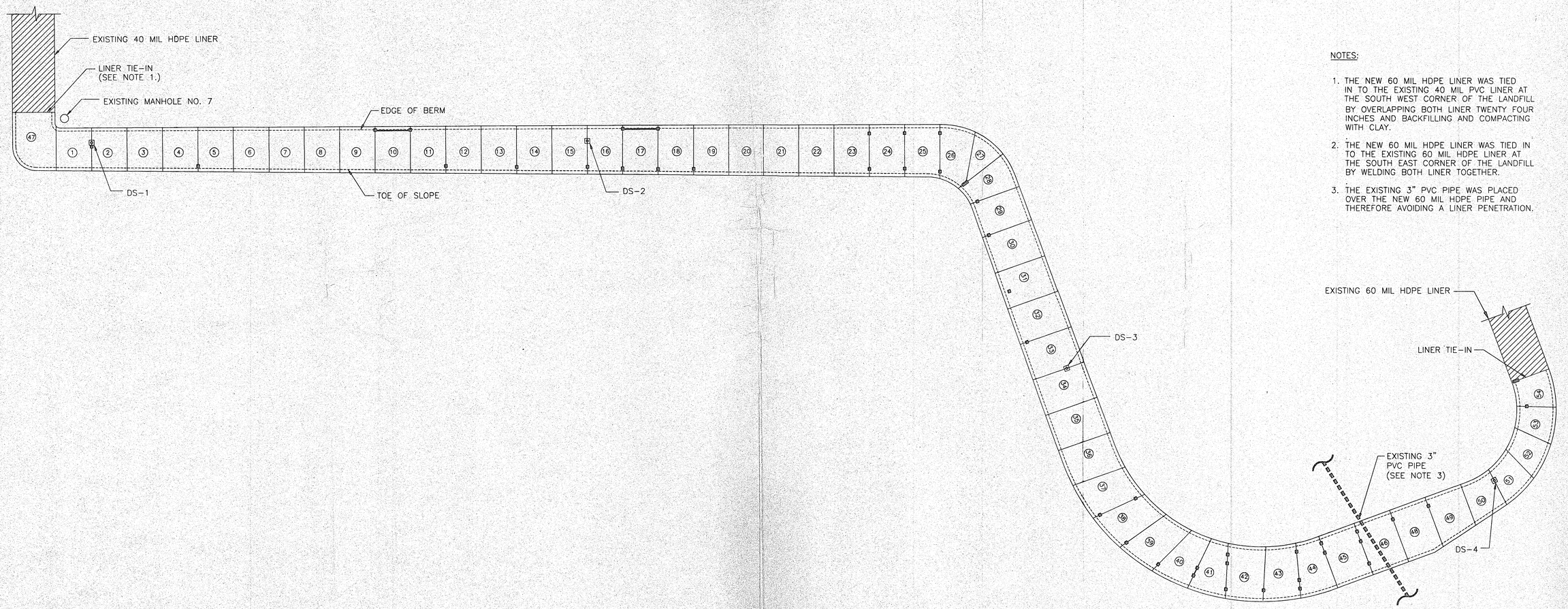
17

LEGEND :

- BEAD
- PATCH
- DESTRUCTIVE SAMPLE
- (25) PANEL NUMBER
- EXISTING MANHOLE
- EXISTING GEOMEMBRANE LINER

NORTH

0 15 30 60



NOTES:

1. THE NEW 60 MIL HDPE LINER WAS TIED IN TO THE EXISTING 40 MIL PVC LINER AT THE SOUTH WEST CORNER OF THE LANDFILL BY OVERLAPPING BOTH LINER TWENTY FOUR INCHES AND BACKFILLING AND COMPACTING WITH CLAY.
2. THE NEW 60 MIL HDPE LINER WAS TIED IN TO THE EXISTING 60 MIL HDPE LINER AT THE SOUTH EAST CORNER OF THE LANDFILL BY WELDING BOTH LINER TOGETHER.
3. THE EXISTING 3" PVC PIPE WAS PLACED OVER THE NEW 60 MIL HDPE PIPE AND THEREFORE AVOIDING A LINER PENETRATION.

"RECORD DRAWINGS"

INCORPORATING THOSE CHANGES MADE DURING THE CONSTRUCTION PROCESS.

H:\ENVCAD\WASTEMAN\HARDEE\CONSTRUCTION\RECORDWG\ASBUILT.DWG
RGC 07/24/00 08:05:30
AutoCAD - Release 13

PBS&J
1560 ORANGE AVENUE
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CLIENT	PROJECT	TASK
HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS	HARDEE COUNTY LANDFILL LATERAL EXPANSION AND LEACHATE STORAGE TANK FACILITY	GEOMEMBRANE PANEL PLACEMENT RECORD DRAWING

ORIGINAL JUNE 2000
REVISIONS:
1 _____ 2 _____ 3 _____ 4 _____ 5 _____
6 _____ 7 _____ 8 _____ 9 _____ 10 _____ 11 _____ 12 _____

JOB NO. 07-862.35
DRAWN _____
DESIGN _____
CHECKED _____
Q.C. _____
SHEET 1 / 1