



ROCKDALE WATER RESOURCES

GEES MILL WATER TREATMENT PLANT 4 MG WATER STORAGE TANK

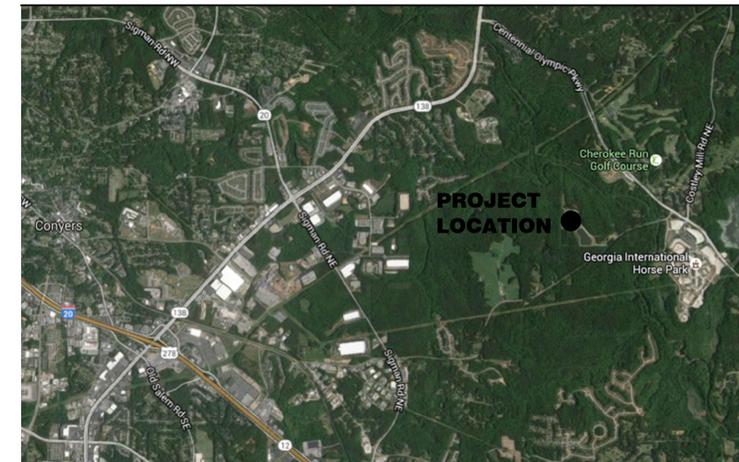


VICINITY MAP
NTS

OWNER/DEVELOPER: ROCKDALE WATER RESOURCES
958 MILSTEAD AVE.
CONYERS, GA. 30012
(770) 278-7432

DESIGN ENGINEER: ROCKDALE WATER RESOURCES
1329 PORTMAN DRIVE, STE. H
CONYERS, GA. 30012
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SITE ADDRESS: 3090 GEES MILL ROAD
CONYERS, GA. 30013



LOCATION MAP
NTS

1329 PORTMAN DRIVE
SUITE H
CONYERS, GEORGIA 30094
PHONE (770)278-7432
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| REVISION | | DESCRIPTION |
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| No. | DATE | ISSUED FOR BID |
| 0 | 10/28/2017 | |
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TITLE, VICINITY, AND LOCATION MAP

DESIGNED BY: DAVID CERVONE
DRAWN BY: JULIO TRINIDAD
CHECKED BY: DAVID CERVONE
DATE: 11/18/2016
FILE NAME: SITEPLAN

SHEET
G-00

DRAWING LIST

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ABBREVIATIONS

| | |
|---------|--------------------------|
| BFV | BUTTERFLY VALVE |
| BLDG | BUILDING |
| BWS | BACKWASH SUPPLY |
| CL | CENTER LINE |
| DIA | DIAMETER |
| DIP | DUCTILE IRON PIPE |
| DR | DRAIN |
| E | EAST COORDINATE |
| ELEV. | ELEVATION |
| EXIST. | EXISTING |
| FE | FILTER EFFLUENT |
| FEI | FILTERED EFFLUENT INLET |
| FEO | FILTERED EFFLUENT OUTLET |
| FG | FIBERGLASS |
| FLG | FLANGE |
| FW | FINISHED WATER |
| FWS | FINISHED WATER SUPPLY |
| G.V. | GATE VALVE |
| HB | HORIZONTAL BEND |
| HORIZON | HORIZONTAL |
| I.D. | INSIDE DIAMETER |
| I.E. | INVERT ELEVATION |
| MG | MILLION GALLONS |
| MH | MANHOLE |
| MIN | MINIMUM |
| MJ | MECHANICAL JOINT |
| N | NORTH COORDINATE |
| NTS | NOT TO SCALE |
| O.C. | ON CENTER |
| O.C.S. | OUTLET CONTROL STRUCTURE |
| O.D. | OUTSIDE DIAMETER |
| RCP | REINFORCED CONCRETE PIPE |
| RWR | ROCKDALE WATER RESOURCES |
| SPC | STATE PLANE COORDINATES |
| SS | STAINLESS STEEL |
| STA | STATION |
| TEMP | TEMPORARY |
| VB | VERTICAL BEND |
| VERT | VERTICAL |
| WL | WATER LINE |

LEGEND

| | |
|--------|---|
| | EXISTING LIFT STATION |
| | EXISTING DRAINAGE STRUCTURE |
| | SURVEY POINT |
| | EXISTING ELECTRIC BOX/PANEL |
| | EXISTING WATER VALVE |
| | EXISTING HYDRANT |
| | ELECTRIC CONDUIT |
| | PROPOSED CONTOURS |
| | EXISTING CONTOURS |
| | APPROXIMATE BORING LOCATION RE: GEOTECHNICAL REPORT |
| | EXISTING TREE |
| | EXISTING TREE TO BE REMOVED |
| | EXISTING GATE VALVE |
| | PROPOSED GATE VALVE |
| | PROPERTY BOUNDARY LINE |
| | EXISTING BUTTERFLY VALVE |
| | PROPOSED BUTTERFLY VALVE |
| | PROPOSED PAVED ROAD |
| | EXISTING PAVED ROAD |
| | EXISTING CHAIN LINK FENCE |
| | PROPOSED CHAIN LINK FENCE |
| | PROPOSED WATERLINE OR DRAINLINE |
| | EXISTING UNDERGROUND UTILITIES |
| | PROPOSED CONCRETE |
| 721.50 | SPOT ELEVATION |
| | SECTION NUMBER DWG. NO. ON WHICH SECTION IS SHOWN. A DASH (-) INDICATES SECTION IS SHOWN ON THE SAME SHEET |
| | DETAIL NUMBER DWG. NO. ON WHICH DETAIL IS SHOWN. A DASH (-) INDICATES DETAIL IS SHOWN ON THE SAME SHEET |

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ROCKDALE WATER RESOURCES

811
Know what's below.
Call before you dig.

| REVISION | | DATE | DESCRIPTION |
|----------|------------|-------------|----------------|
| No. | DATE | DESCRIPTION | ISSUED FOR BID |
| 0 | 02/29/2017 | | |

**DRAWING LIST,
SYMBOLS &
ABBREVIATIONS**

DESIGNED BY: DAVID CERVONE
DRAWN BY: JULIO TRINIDAD
CHECKED BY: DAVID CERVONE
DATE: 11/18/2016

SHEET
G-01

PIPELINE CONSTRUCTION NOTES:

1. PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
2. OPEN TRENCHES IN EXISTING ASPHALT SHALL BE PLATED OVERNIGHT WITH NON SKID STEEL PLATES.
3. UNLESS OTHERWISE NOTED, STATION ON PLANS REFERS TO CENTERLINE OF PIPELINE AND IS BASED ON HORIZONTAL DISTANCES.
4. VERIFY DIMENSIONS AND CONDITIONS AT THE SITE BEFORE STARTING WORK. CONFLICTS BETWEEN DETAILS OR DIMENSIONS ON THE DRAWINGS SHALL BE REPORTED PROMPTLY TO THE ENGINEER, WHO WILL DETERMINE THE INTENT OF THE DESIGN.
5. EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND BASED ON RECORD DRAWINGS. POTHOLE AND SURVEY EXISTING UTILITIES THAT WILL BE AFFECTED BY TRENCHING OR EXCAVATIONS PRIOR TO ORDERING ANY MATERIALS. POTHOLE AND SURVEY DATA SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW. POTHOLE DATA SHALL INCLUDE EXISTING UTILITY HORIZONTAL LOCATION, PIPE ELEVATION, PIPE ANGULAR CONFIGURATION, AND MATERIALS OF CONSTRUCTION. IDENTIFY POTENTIAL CONFLICTS WITH THE NEW PIPE LOCATION. PIPE ALIGNMENT ADJUSTMENTS THAT DO NOT INCREASE OVERALL PIPE OR FITTING QUANTITIES SHALL BE MADE AT NO ADDITIONAL COST TO THE RWR.
6. FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION, DIAMETER, AND ORIENTATION AT ALL CONNECTION POINTS AND COORDINATE WITH RWR PRIOR TO CONSTRUCTION. PROVIDE ALL PIPE MATERIALS AND FITTINGS, AS REQUIRED TO MEET EXISTING FIELD CONDITIONS FOR A COMPLETE INSTALLATION.
7. REPAIR DAMAGE TO LANDSCAPING, PAVING, UTILITIES, CURBS, GUTTERS, IRRIGATION, STRUCTURES, ETC., CAUSED BY THE WORK.
8. PAVEMENT CUTS SHALL BE PERFORMED BY SAW CUTTING OR GRINDING. RECUR PAVEMENT PRIOR TO REPAVING WHERE UNDERMINING HAS OCCURRED.
9. REPLACE TRAFFIC STRIPING OR STENCILING THAT IS OBLITERATED BY CONSTRUCTION TO THE SATISFACTION OF RWR.
10. SCHEDULE WITH RWR LOCAL WATER SERVICE SHUTDOWNS NOT LESS THAN TWO WEEKS IN ADVANCE. SERVICE SHALL NOT BE INHIBITED FOR MORE THAN 6 HOURS. ONLY TWO (2) SHUTDOWNS WILL BE ALLOWED UNDER THIS CONTRACT FOR THE LOCAL WATER SERVICE. WORK INVOLVING CONNECTION TO THE 48" LINE SHALL BE SCHEDULED WITH RWR AND OCCUR DURING A COORDINATED SHUT DOWN OF THE GEES MILL WTP.
11. MAINTAIN 36" MINIMUM PIPELINE COVER PER RWR UNLESS OTHERWISE SHOWN ON THE PLANS OR UNLESS REDUCED DEPTH IS SPECIFICALLY APPROVED BY THE ENGINEER.
12. REMOVAL AND REPLACEMENT OF PAVEMENT SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
13. TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH PLANS AND SPECIFICATION SECTION 02200
14. HORIZONTAL STATIONING ALONG THE PIPELINE ALIGNMENT IS FOR LEVEL LINE MEASUREMENT AND FOR PAYMENT OF THE PIPELINES. FURNISH AND INSTALL THE ACTUAL PIPE LENGTH TO BE DETERMINED BY THE SLOPE OR CURVE ON WHICH THE PIPE IS INSTALLED.
15. RESTRAINED JOINTS SHALL BE PROVIDED FOR BURIED PIPING AS INDICATED ON THE DRAWINGS OR AS SCHEDULED IN THE SPECIFICATIONS.
16. ALL VALVE BOXES SHALL BE SET TO FINISH GRADE.
17. ALL TRENCH EXCAVATION SHALL COMPLY WITH THE MOST CURRENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STANDARDS.
18. DELETERIOUS MATERIALS AND EXCAVATED MATERIALS NOT USED IN BACKFILL OR GRADING SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF.
19. CONCRETE TRUCKS SHALL BE CLEANED IN DESIGNATED AREAS WITH WATER PROOF LINING IN COMPLIANCE WITH THE SWPPP AND OTHER PERMITS. ALL WASTE AND MATERIAL SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF.
20. PRESSURE TEST WATER LINES AFTER ALL UTILITIES ARE INSTALLED AND BACKFILL IS ACCEPTED. PRESSURE TEST SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02676
21. DISINFECTION OF WATER LINES SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02675
22. ALL NEW WATER PIPES SHALL BE PROPERLY FLUSHED, PRESSURE TESTED, CHLORINATED AND BACTERIOLOGICALLY TESTED, AS SPECIFIED.

GENERAL CONSTRUCTION NOTES:

1. WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. NOTIFY THE RWR REPRESENTATIVE AND ALL OTHER INTERESTED PARTIES AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO THE START OF WORK.
3. OBTAIN REQUIRED PERMITS AND NECESSARY DISTRICT BUSINESS LICENSE(S) PRIOR TO BEGINNING CONSTRUCTION.
4. DURING CONSTRUCTION, INCLUDING SUSPENSION OF WORK, UNTIL FINAL ACCEPTANCE OF THE PROJECT, OBSERVE, FOLLOW AND IMPLEMENT THE REQUIREMENTS OF THE NPDES AND STORMWATER POLLUTION PREVENTION PROGRAM AND KEEP THE WORK SITE CLEAN FROM RUBBISH AND DEBRIS. ALSO ABATE DUST NUISANCE BY CLEANING, SWEEPING AND SPRINKLING WITH WATER AND USING DUST FENCES OR THEIR METHODS AS DIRECTED BY THE RWR'S REPRESENTATIVE THROUGHOUT THE CONSTRUCTION OPERATION.
5. KEEP A STRICT RECORD OF ALL CHANGES AND SUBMIT THIS RECORD TO THE RWR. ALSO COORDINATE TRANSFERRING "AS-BUILT" INFORMATION ON THE CONTRACT DRAWINGS AND DELIVER THE CERTIFIED "AS-BUILT" PLANS TO THE DISTRICT BEFORE THE RELEASE FOR FINAL ACCEPTANCE OF THE PROJECT SHALL BE FILED.
6. EXERCISE DUE CARE TO AVOID INJURY TO EXISTING IMPROVEMENTS OR FACILITIES, UTILITY FACILITIES, ADJACENT PROPERTY, AND TREES AND SHRUBBERY THAT ARE NOT TO BE REMOVED. ALL DAMAGE CAUSED TO COUNTY & CITY STREETS, INCLUDING HAUL ROUTES, SIDEWALKS, CURBS OR STREET FURNISHINGS, OR TO PRIVATE PROPERTY SHALL BE REPAIRED AT THE SOLE EXPENSE OF THE CONTRACTOR TO THE SATISFACTION OF THE RWR REPRESENTATIVE.
7. DESIGNATE AND KEEP ON THE PROJECT WHILE WORK IS BEING PERFORMED A COMPETENT SUPERINTENDENT WHO SHALL NOT BE REPLACED WITHOUT A WRITTEN NOTICE TO THE RWR'S REPRESENTATIVE. THE SUPERINTENDENT WILL BE THE CONTRACTOR'S REPRESENTATIVE AT THE SITE AND SHALL HAVE AUTHORITY TO ACT ON BEHALF OF THE CONTRACTOR. COMMUNICATIONS GIVEN TO THE SUPERINTENDENT SHALL BE AS BINDING AS IF GIVEN TO THE CONTRACTOR. DURING PERIODS WHEN THE WORK IS SUSPENDED, MAKE APPROPRIATE ARRANGEMENTS FOR EMERGENCY WORK WHICH WILL BE REQUIRED.
8. WHEN THE WORK ON ANY PORTION OF IT IS SUFFICIENTLY COMPLETE TO BE UTILIZED OR PLACED INTO SERVICE, RWR SHALL HAVE THE RIGHT UPON WRITTEN NOTIFICATION TO THE CONTRACTOR TO UTILIZE SUCH PORTIONS OF THE WORK AND TO PLACE THE OPERABLE PORTIONS INTO SERVICE AND TO OPERATE SAME. UPON SAID NOTICE AND COMMENCEMENT OF UTILIZATION OR OPERATION BY THE RWR, THE CONTRACTOR SHALL BE RELIEVED OF THE DUTY OF MAINTAINING THE PORTIONS SO UTILIZED OR PLACED INTO OPERATION; PROVIDED, HOWEVER, THAT NOTHING IN THIS NOTE SHALL BE CONSTRUED AS RELIEVING THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR COMPLETING THE WORK IN ITS ENTIRETY, FOR MAKING GOOD DEFECTIVE WORK AND MATERIALS, FOR PROTECTING THE WORK FROM DAMAGE, AND FOR BEING RESPONSIBLE FOR DAMAGE.
9. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK; AND FULLY COMPLY WITH STATE/FEDERAL AND OTHER LAWS, RULES, REGULATIONS, AND ORDER RELATING TO SAFETY OF WORKERS AND ALL OTHERS. THIS INCLUDES THE ISSUANCE OF PERSONAL PROTECTIVE EQUIPMENT.
10. UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY RWR OR THOSE SHOWN ON RECORDS EXAMINED ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES FOUND AT THE SITE. NOTIFY RWR OF THE UTILITIES CONCERNED BEFORE STARTING WORK.
11. TYPICAL DETAILS APPLY WHETHER OR NOT THEY ARE SPECIFICALLY REFERENCED ON INDIVIDUAL PLANS, DETAILS OR SECTIONS.
12. VERIFY DIMENSIONS AND CONDITIONS AT THE SITE BEFORE STARTING WORK. ANY CONFLICT BETWEEN DETAILS OR DIMENSIONS ON THE DRAWINGS SHALL BE REPORTED PROMPTLY TO RWR REPRESENTATIVE WHO WILL DETERMINE THE INTENT OF THE DRAWINGS.

13. FURNISH AND MAINTAIN A LOCKABLE CHEMICAL TOILET AT THE LOCATION IDENTIFIED IN THE SITE ACCESS PLAN.
14. SUPPORT RWR IN OBTAINING A NOTICE OF INTENT, A STORM WATER POLLUTION CONTROL PLAN AND A SWPPP PLAN IN ACCORDANCE WITH NPDES REGULATIONS, SEE SPECIFICATIONS.
15. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN ASCE 38-02 UNLESS OTHERWISE INDICATED.
16. NO SMOKING IS ALLOWED WITHIN THE JOBSITE OR SITE ACCESS AREAS, A FIRE SPOTTER, FIRE EXTINGUISHER, ADEQUATE WATER SUPPLY AND SHOVELS SHALL BE AVAILABLE AND WITHIN REACH AT ALL TIMES DURING ANY WELDING OR TORCH WORK. THIS JOBSITE IS IN AN EXTREMELY HAZARDOUS FIRE AREA.
17. AT COMPLETION OF THE PROJECT, OVERLAY THE PAVED ACCESS ROADS AS SHOWN ON THE DRAWINGS. THE OVERLAY SHALL BE 1" MINIMUM ASPHALT CONCRETE ON EXISTING ASPHALT CONCRETE AND SHALL MATCH THE EXISTING ROAD PAVED WIDTH & LIMITS.
18. VIDEO RECORD AND DOCUMENT THE EXISTING CONDITION OF THE PROJECT LIMITS AND SUBMIT THE RECORDING AND DOCUMENT TO THE RWR PRIOR TO THE START OF CONSTRUCTION.
19. EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED OR LIGHT-LINED. NEW FINISH GRADE, STRUCTURES, AND SITE FEATURES ARE SHOWN HEAVY-LINED.
20. FOR LOCATION OF CONTROL POINT ON STRUCTURES, SEE STRUCTURAL DRAWINGS.
21. COORDINATES AND DIMENSIONS SHOWN FOR ROADWAY IMPROVEMENTS ARE TO FACE OF CURB OR EDGE OF PAVEMENT.
22. STAGING AREA SHALL BE FOR CONTRACTOR'S EMPLOYEE PARKING, CONTRACTOR'S TRAILERS AND ON-SITE STORAGE OF MATERIALS FOR THIS PROJECT ONLY.
23. PROVIDE TEMPORARY FENCING TO MAINTAIN SECURITY AT ALL TIMES.
24. ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE SHOWN.
25. SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
26. CONDUCT OPERATIONS TO RESULT IN THE LEAST POSSIBLE OBSTRUCTION INCONVENIENCE TO THE PUBLIC, AND HAVE UNDER CONSTRUCTION NO GREATER LENGTH OR AMOUNT OF WORK THAT CAN BE PERFORMED PROPERLY WITH DUE REGARD TO THE RIGHTS OF THE PUBLIC OR AS STATED IN THE PERMITS. CONVENIENT ACCESS TO DRIVEWAYS, HOUSES AND BUILDINGS ALONG THE WORK SHALL BE MAINTAINED.

GENERAL YARD PIPING AND UTILITIES NOTES:

1. ALL PIPING COORDINATES ARE TO THE FITTING CENTERLINE. IN THE CASE OF MULTIPLE FITTINGS AND VALVES COORDINATES ARE TO THE CENTER OF THE TEE
2. ELEVATION ADJUSTMENTS AT CONNECTIONS MAY BE MADE WITH BENDS, OFFSETS OR JOINT DEFLECTIONS. JOINT DEFLECTIONS SHALL NOT EXCEED 75% MANUFACTURER'S RECOMMENDED DEFLECTION PER JOINT
3. CONTRACTOR MAY BE REQUIRED TO USED TEMPORARY TESTING OF PROPOSED WATER LINES. TEMPORARY PLUGS SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS ITEMS BID.
4. EXISTING UNDERGROUND UTILITIES OBTAINED FROM AS-BUILTS AND FROM FIELD SURVEY.
5. FIELD VERIFY DEPTH AND LOCATION OF UTILITIES PRIOR TO EXCAVATION.
6. PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
7. ALL PIPES SHALL HAVE A CONSTANT SLOPE BETWEEN INVERT ELEVATIONS UNLESS A FITTING IS SHOWN.
8. TRAFFIC CONTROL COSTS SHALL BE INCLUDED IN THE BID. PROCEDURES SHALL CONFORM TO THE ROCKDALE COUNTY AND GEORGIA DEPARTMENT OF TRANSPORTATION, IF REQUIRED AND IN ACCORDANCE WITH ALL APPLICABLE PERMITS, AND WITH THE SPECIFICATIONS.
9. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE HOURS REFERENCED IN THE SPECIFICATIONS AND PERMITS.
10. PROVIDE AND MAINTAIN ON THE WORK SITE SUITABLE SANITATION FACILITIES AND MAKE SAID FACILITIES READILY ACCESSIBLE TO THE WORKERS, THE OWNER AND THE OWNER'S REPRESENTATIVE AT ALL TIMES WHILE WORK IS IN PROGRESS.
11. MAKE ARRANGEMENTS FOR EQUIPMENT, MATERIAL STORAGE & YARD SECURITY.
12. EMERGENCY SERVICES (POLICE, FIRE, AMBULANCE) SHALL BE ALERTED 48 HOURS IN ADVANCE OF PERFORMING SHUTDOWN.
13. THE TERM "PROPOSED" AS INDICATED ON THE DRAWINGS MEANS THE ITEM IS DESIGNED OR PLANNED TO BE PROVIDED BY RWR OR OTHERS SEPARATE FROM THIS CONTRACT. THE TERM "FUTURE" AS INDICATED ON THE DRAWINGS REFERS TO THE ENGINEER'S INTERPRETATION OF THE ITEM FOR THE FUTURE, BASED ON AVAILABLE INFORMATION.

TOPOGRAPHIC MAPPING

THE TOPOGRAPHIC/PLANIMETRIC INFORMATION SHOWN HEREON WAS COMPILED FROM DATA COLLECTED IN A FIELD SURVEY UNDERTAKEN BY PATRICK AND ASSOCIATES IN 2012.

SURVEY NOTES

THIS SURVEY LOCATED GROUND AND SURFACE FEATURES WITHIN THE PROJECT LIMITS DEFINED BY RWR. THE SITE IS COVERED WITH DENSE PINE TREES THAT WERE NOT LOCATED AS PART OF THE SURVEY.

GRADING NOTES:

1. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS ARE TO FINISHED GRADE. CONTRACTOR SHALL CUT OR FILL THESE GRADES.
2. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL SIDES OF ALL BUILDING STRUCTURES, TANKS, AND VAULTS.
3. ALL FILL MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH SPECIFICATIONS.
4. PROVIDE PROTECTION AGAINST EROSION AND STORM WATER POLLUTION PER EROSION CONTROL PLANS.
5. EXISTING CONTOURS ARE APPROXIMATE AND BASED ON GROUND CONDITIONS SURVEYED PRIOR TO DESIGN. IF THE GRADES AND ELEVATIONS ARE DIFFERENT THAN THE GRADES AND ELEVATIONS SHOWN IN THE PLAN, THE CONTRACTOR SHALL NOTIFY RWR.
6. CONTRACTOR SHALL SUBMIT FOR APPROVAL A STOCK PILE PLAN FOR SPOILS TO BE TRANSPORTED. CONTRACTOR WILL NOT BE ALLOWED TO PILE HIGHER THAN 20- FEET, WITH A MAXIMUM SLOPE OF 2:1. CONTRACTOR SHALL NOT BE ALLOWED TO PLACE STOCK PILES WITHIN DRAINAGE AREAS.
7. ALL GRADING AND EARTHWORK SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL REPORT PREPARED BY UNITED CONSULTING 11/28/2014 AND 09/19/2016.
8. THE SLOPE OF EXCAVATIONS SHALL BE SHAPED AND TRIMMED AS DIRECTED BY THE ENGINEER AND LEFT IN A NEAT AND ORDERLY CONDITION. ALL STONES, ROOTS, AND OTHER WASTE MATERIALS EXPOSED ON THE EXCAVATION OR EMBANKMENT SLOPES WHICH ARE UNABLE TO BE LOOSENED SHALL BE REMOVED AND DISPOSED OF. THE TOE AND TOP OF ALL SLOPES SHALL BE ROUNDED TO BLEND IN WITH THE NATURAL GROUND COUNTOURS.
9. ALL GRADING, SITE PREPARATION, PROCESING, PLACING AND COMPACTING OF FILL SHALL BE DONE UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER. SUBSEQUENT TO COMPLETION OF WORK, THE GEOTECHNICAL ENGINEER SHALL SUBMIT TO THE RWR, A REPORT STATING THAT ALL WORK HAS BEEN DONE TO HIS OR HER SATISFACTION. RECOMMENDATIONS OF THE GEOTECHNICAL REPORT SHALL BE STRICTLY ADHERE TO.

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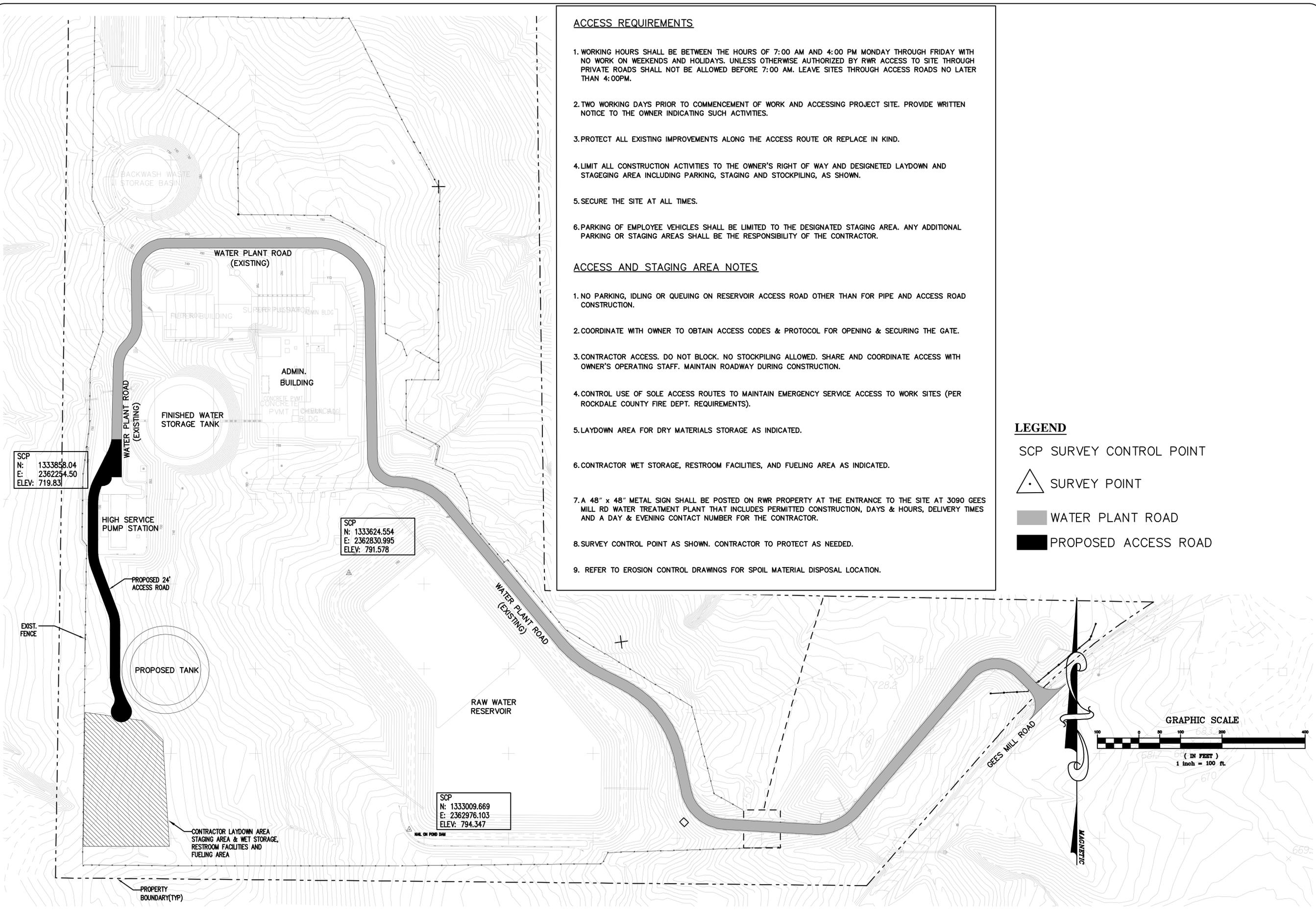


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GENERAL NOTES

DESIGNED BY: DAVID CERVONE
DRAWN BY: JULIO TRINIDAD
CHECKED BY: DAVID CERVONE
DATE: 11/18/2016

SHEET
G-02



ACCESS REQUIREMENTS

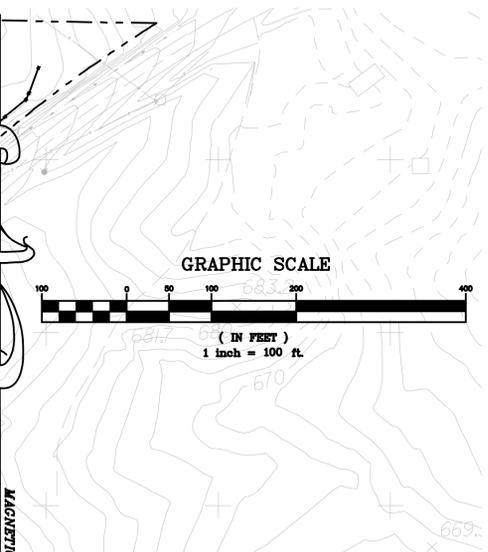
1. WORKING HOURS SHALL BE BETWEEN THE HOURS OF 7:00 AM AND 4:00 PM MONDAY THROUGH FRIDAY WITH NO WORK ON WEEKENDS AND HOLIDAYS. UNLESS OTHERWISE AUTHORIZED BY RWR ACCESS TO SITE THROUGH PRIVATE ROADS SHALL NOT BE ALLOWED BEFORE 7:00 AM. LEAVE SITES THROUGH ACCESS ROADS NO LATER THAN 4:00PM.
2. TWO WORKING DAYS PRIOR TO COMMENCEMENT OF WORK AND ACCESSING PROJECT SITE. PROVIDE WRITTEN NOTICE TO THE OWNER INDICATING SUCH ACTIVITIES.
3. PROTECT ALL EXISTING IMPROVEMENTS ALONG THE ACCESS ROUTE OR REPLACE IN KIND.
4. LIMIT ALL CONSTRUCTION ACTIVITIES TO THE OWNER'S RIGHT OF WAY AND DESIGNATED LAYDOWN AND STAGING AREA INCLUDING PARKING, STAGING AND STOCKPILING, AS SHOWN.
5. SECURE THE SITE AT ALL TIMES.
6. PARKING OF EMPLOYEE VEHICLES SHALL BE LIMITED TO THE DESIGNATED STAGING AREA. ANY ADDITIONAL PARKING OR STAGING AREAS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

ACCESS AND STAGING AREA NOTES

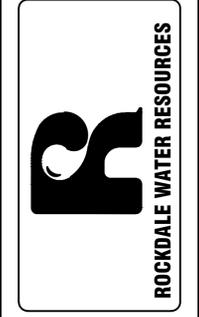
1. NO PARKING, IDLING OR QUEUING ON RESERVOIR ACCESS ROAD OTHER THAN FOR PIPE AND ACCESS ROAD CONSTRUCTION.
2. COORDINATE WITH OWNER TO OBTAIN ACCESS CODES & PROTOCOL FOR OPENING & SECURING THE GATE.
3. CONTRACTOR ACCESS. DO NOT BLOCK. NO STOCKPILING ALLOWED. SHARE AND COORDINATE ACCESS WITH OWNER'S OPERATING STAFF. MAINTAIN ROADWAY DURING CONSTRUCTION.
4. CONTROL USE OF SOLE ACCESS ROUTES TO MAINTAIN EMERGENCY SERVICE ACCESS TO WORK SITES (PER ROCKDALE COUNTY FIRE DEPT. REQUIREMENTS).
5. LAYDOWN AREA FOR DRY MATERIALS STORAGE AS INDICATED.
6. CONTRACTOR WET STORAGE, RESTROOM FACILITIES, AND FUELING AREA AS INDICATED.
7. A 48" x 48" METAL SIGN SHALL BE POSTED ON RWR PROPERTY AT THE ENTRANCE TO THE SITE AT 3090 GEES MILL RD WATER TREATMENT PLANT THAT INCLUDES PERMITTED CONSTRUCTION, DAYS & HOURS, DELIVERY TIMES AND A DAY & EVENING CONTACT NUMBER FOR THE CONTRACTOR.
8. SURVEY CONTROL POINT AS SHOWN. CONTRACTOR TO PROTECT AS NEEDED.
9. REFER TO EROSION CONTROL DRAWINGS FOR SPOIL MATERIAL DISPOSAL LOCATION.

LEGEND

- SCP SURVEY CONTROL POINT
- SURVEY POINT
- WATER PLANT ROAD
- PROPOSED ACCESS ROAD



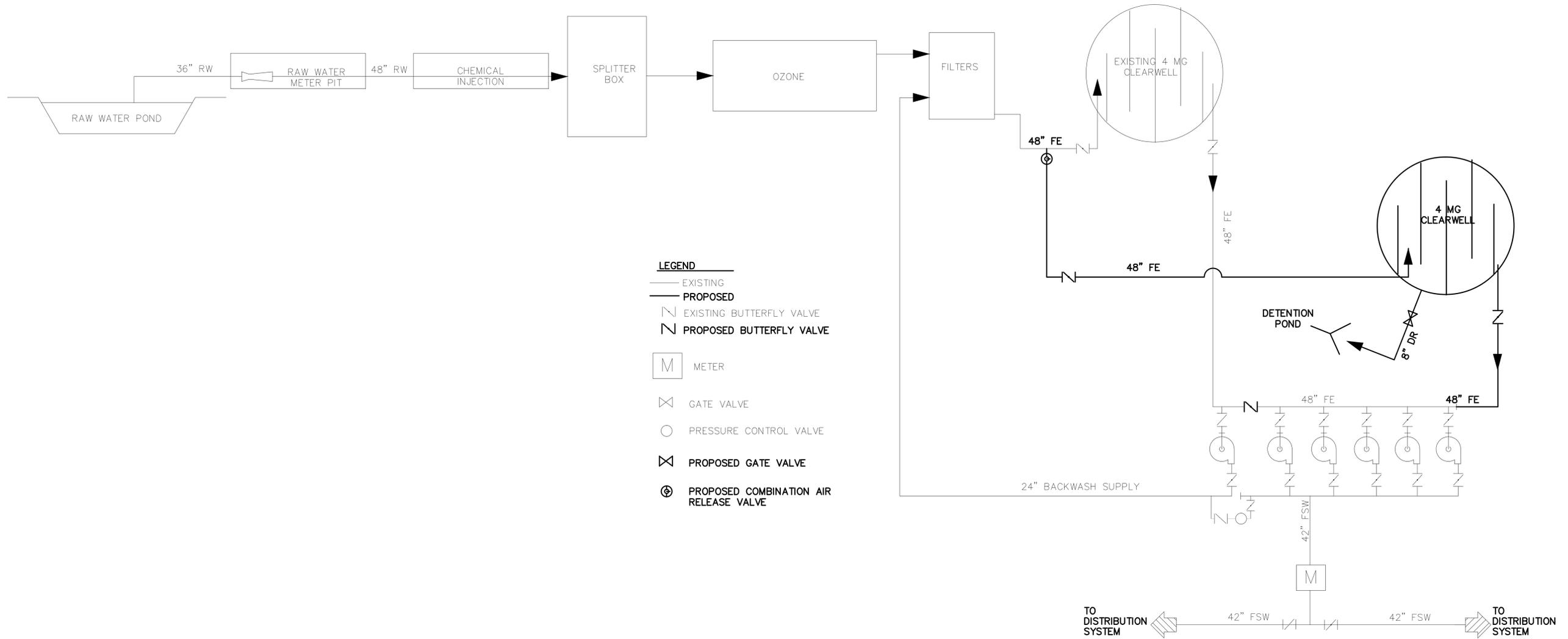
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**SITE ACCESS PLAN AND
 CONTRACTOR STORAGE**

DESIGNED BY: DAVID CERVOINE
 DRAWN BY: PAVEL VAYNER
 CHECKED BY: DAVID CERVOINE
 DATE: 11/18/2016
 FILE NAME: SITEPLAN



- LEGEND**
- EXISTING
 - PROPOSED
 - ∩ EXISTING BUTTERFLY VALVE
 - ∩ PROPOSED BUTTERFLY VALVE
 - M METER
 - ⊗ GATE VALVE
 - PRESSURE CONTROL VALVE
 - ⊗ PROPOSED GATE VALVE
 - ⊕ PROPOSED COMBINATION AIR RELEASE VALVE

NOTE: FOR SCHEMATIC PURPOSES ONLY, OTHER FEATURES MAY EXIST

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GENERAL PURPOSE FLOW DIAGRAM

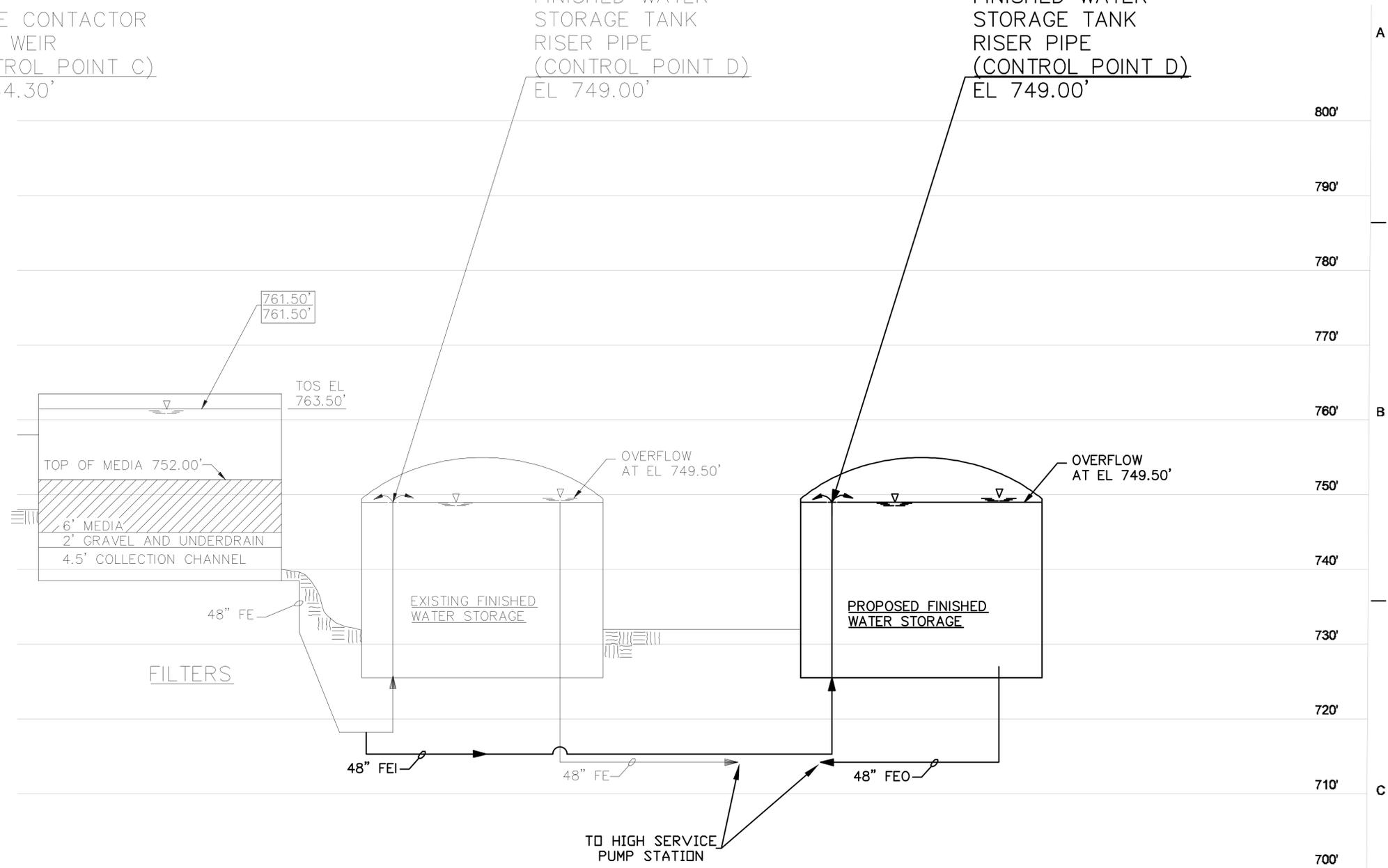
DESIGNED BY: DAVID CERVONE
DRAWN BY: JULIO TRINIDAD
CHECKED BY: DAVID CERVONE
DATE: 11/18/2016
FILE NAME: SITEPLAN

SHEET
G-04

OZONE CONTACTOR
FIXED WEIR
(CONTROL POINT C)
EL 764.30'

FINISHED WATER
STORAGE TANK
RISER PIPE
(CONTROL POINT D)
EL 749.00'

FINISHED WATER
STORAGE TANK
RISER PIPE
(CONTROL POINT D)
EL 749.00'



NOTE:
PIPING ELEVATIONS ARE
APPROXIMATE, REFER TO SHEET
C-03 FOR PIPE PROFILE.

HYDRAULIC PROFILE

NTS

LEGEND

000.00' WATER SURFACE ELEVATION AT 24 MGD WITH ALL UNITS IN SERVICE
000.00' WATER SURFACE ELEVATION AT 7 MGD WITH ALL UNITS IN SERVICE

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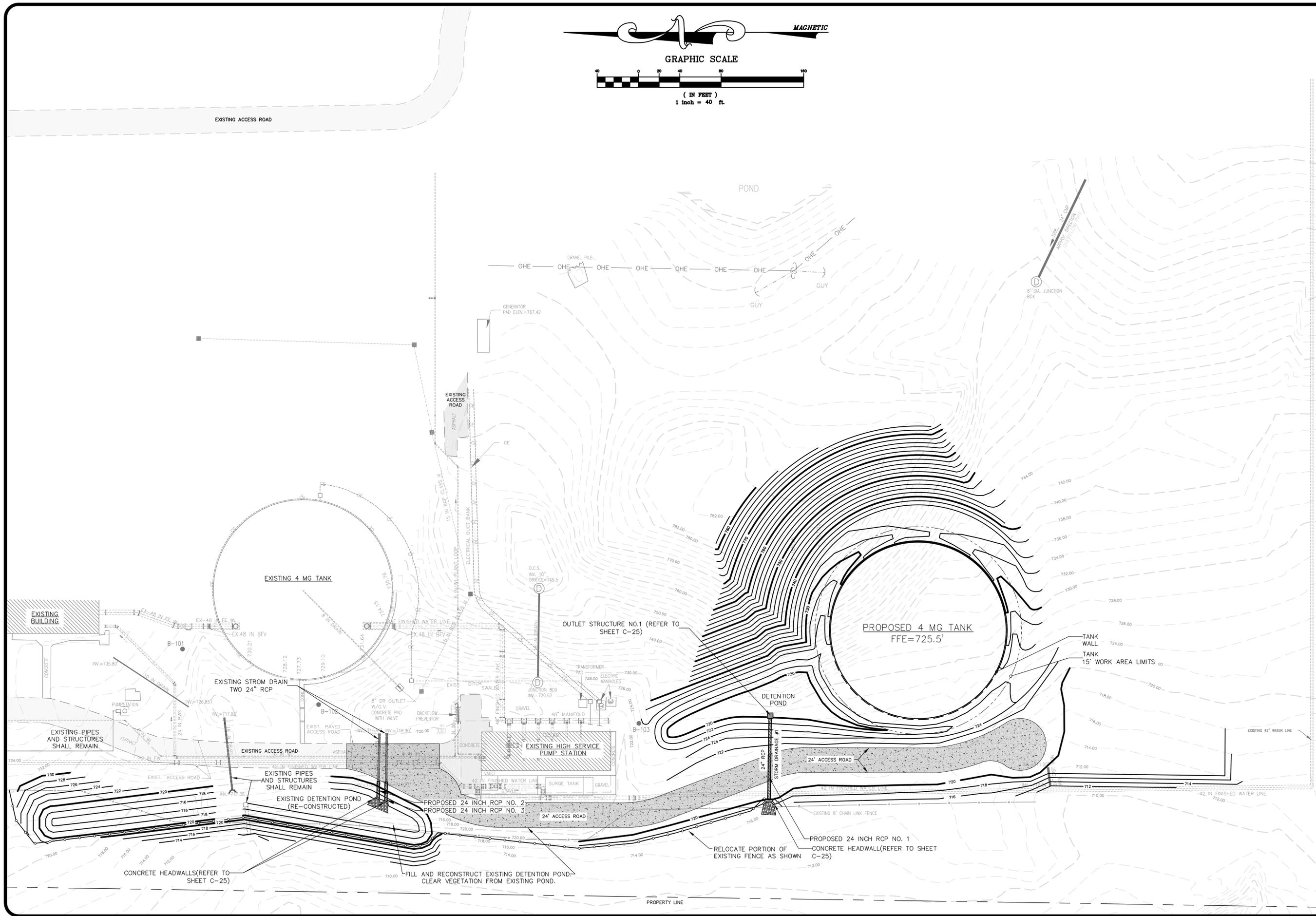
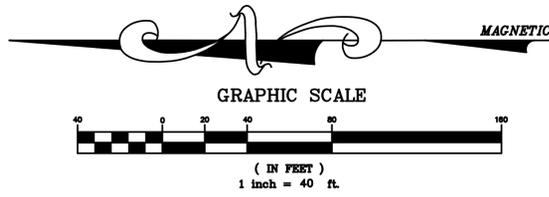


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|----------|------------|----------------|
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| 0 | 02/29/2017 | |
| | | |
| | | |

HYDRAULIC PROFILE

DESIGNED BY: DAVID CERVONE
DRAWN BY: JULIO TRINIDAD
CHECKED BY: DAVID CERVONE
DATE: 11/18/2016
FILE NAME: SITEPLAN

SHEET
G-05



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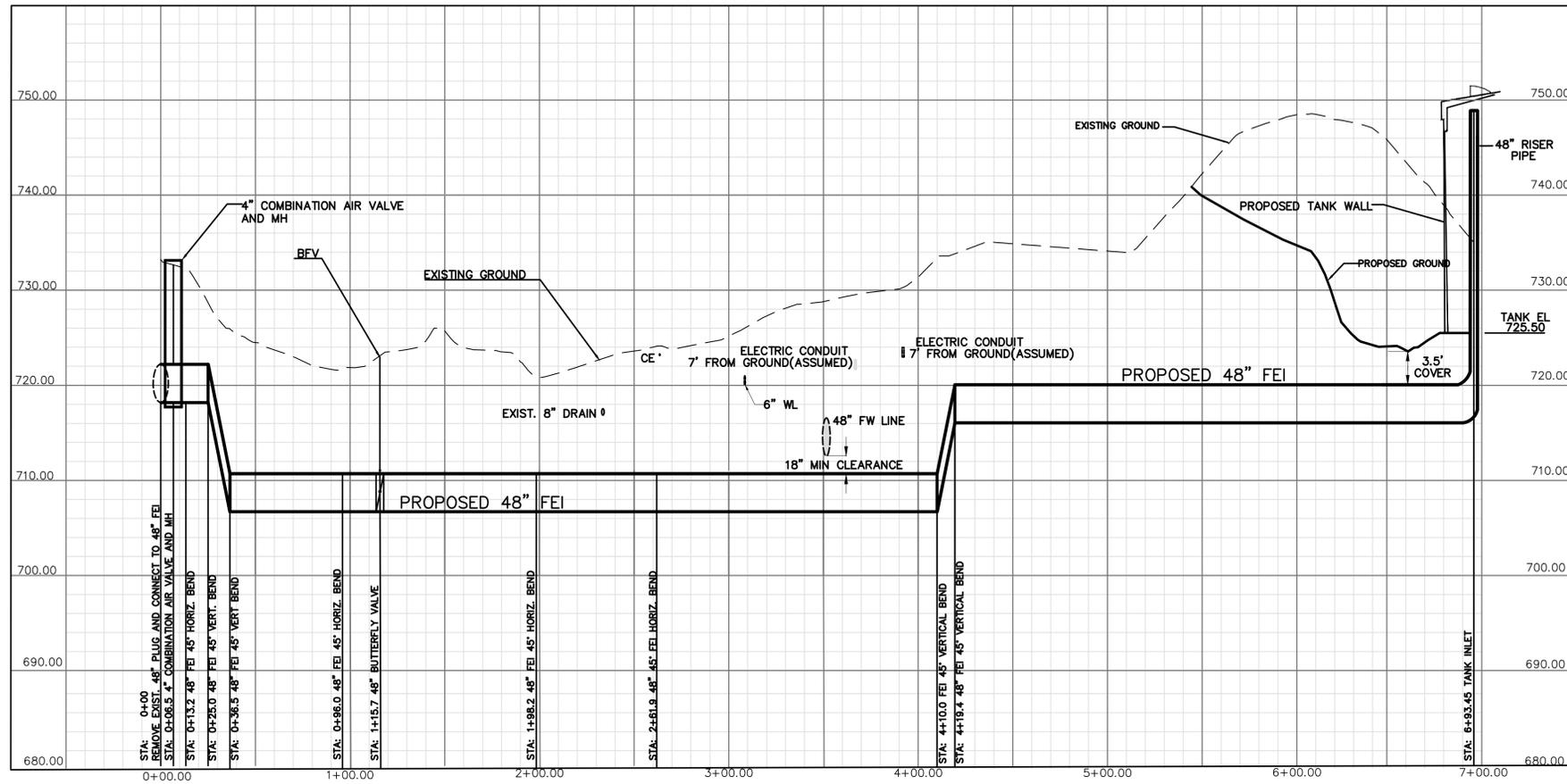
811
Know what's below.
Call before you dig.

| REVISION | |
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| 0 | DATE: 02/28/2017 |

SITE GRADING AND DRAINAGE PLAN

DESIGNED BY: DAVID CERVONE
DRAWN BY: WALT BOBO
CHECKED BY: DAVID CERVONE
DATE: 05/30/2017
FILE NAME: STEPLAN

SHEET
C-01

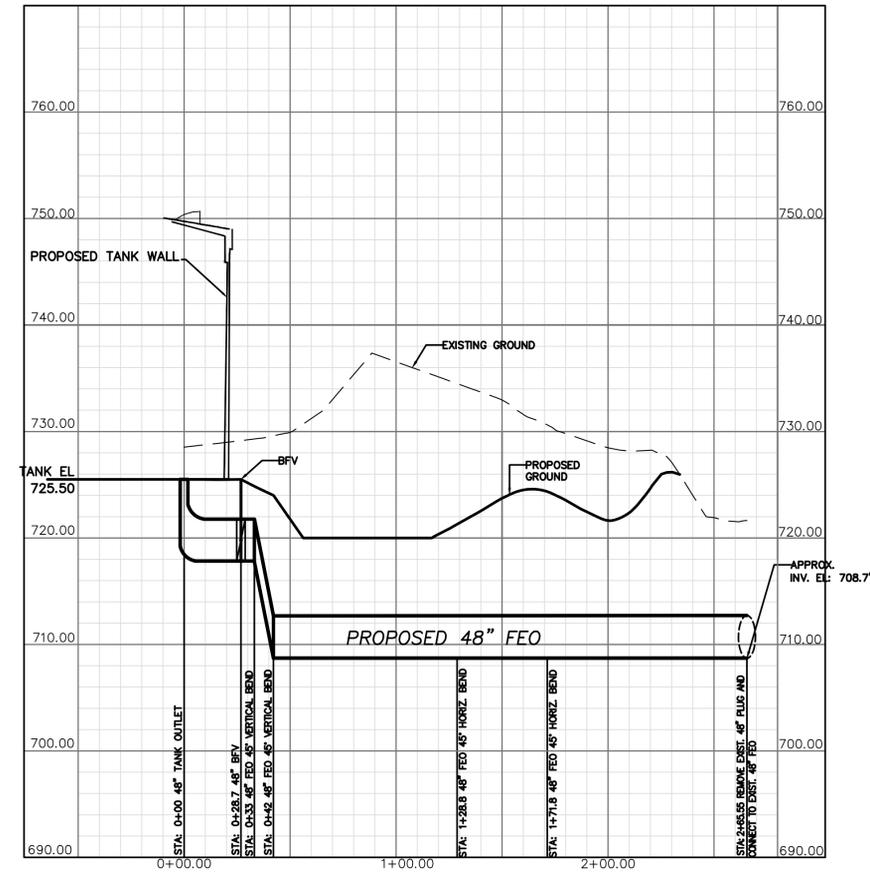


48" FEI PROFILE

HORIZONTAL SCALE 1" = 40'
VERTICAL SCALE 1" = 8'

NOTE:

PIPE TO BE RESTRAINED ALONG ENTIRE LENGTH. CONTRACTOR TO INSTALL MJ FITTINGS AND MJ VALVES WITH RETAINER GLAND (MEGALUG OR EQUAL). ALL OTHER PIPE JOINTS SHALL BE RESTRAINED JOINT SYSTEM AS SPECIFIED IN SPECIFICATION SECTION 15062.

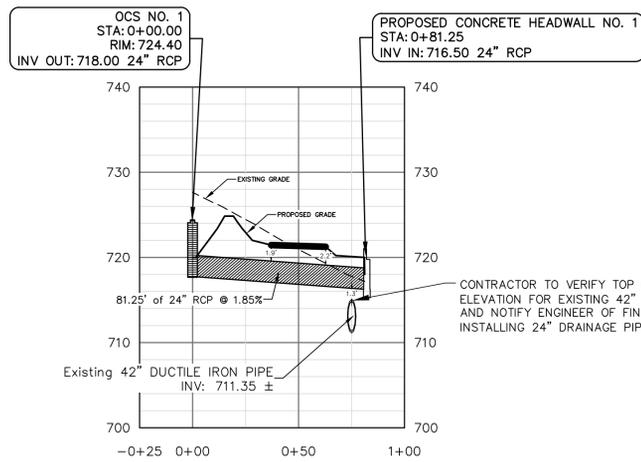


48" FEO PROFILE

HORIZONTAL SCALE 1" = 40'
VERTICAL SCALE 1" = 8'

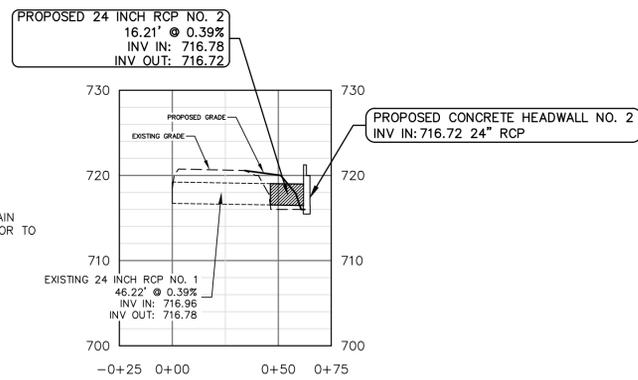
NOTE:

PIPE TO BE RESTRAINED ALONG ENTIRE LENGTH. CONTRACTOR TO INSTALL MJ FITTINGS AND MJ VALVES WITH RETAINER GLAND (MEGALUG OR EQUAL). ALL OTHER PIPE JOINTS SHALL BE RESTRAINED JOINT SYSTEM AS SPECIFIED IN SPECIFICATION SECTION 15062.



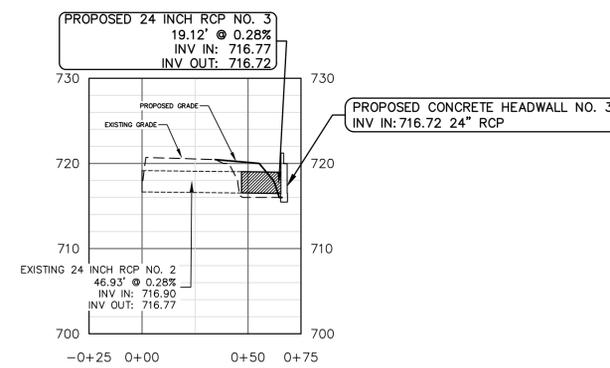
24" RCP STORM DRAINAGE NO. 1

HORIZONTAL SCALE 1" = 40'
VERTICAL SCALE 1" = 10'



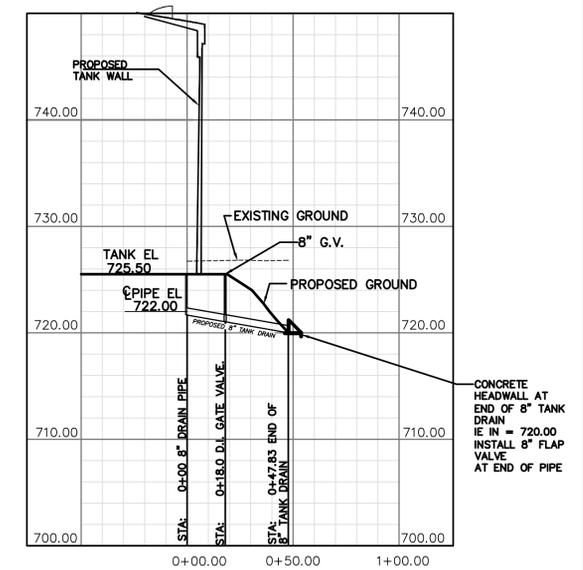
24" RCP STORM DRAINAGE NO. 2

HORIZONTAL SCALE 1" = 40'
VERTICAL SCALE 1" = 10'



24" RCP STORM DRAINAGE NO. 3

HORIZONTAL SCALE 1" = 40'
VERTICAL SCALE 1" = 10'



8" DIP TANK DRAIN

HORIZONTAL SCALE 1" = 40'
VERTICAL SCALE 1" = 8'

NOTE:
1: CONTRACTOR TO CONFIRM LOCATION AND DEPTH OF ALL EXISTING UTILITIES.

CONTRACTOR TO VERIFY TOP OF PIPE ELEVATION FOR EXISTING 42" WATER MAIN AND NOTIFY ENGINEER OF FINDINGS PRIOR TO INSTALLING 24" DRAINAGE PIPE.

CONCRETE HEADWALL AT END OF 8" TANK DRAIN IE IN = 720.00 INSTALL 8" FLAP VALVE AT END OF PIPE

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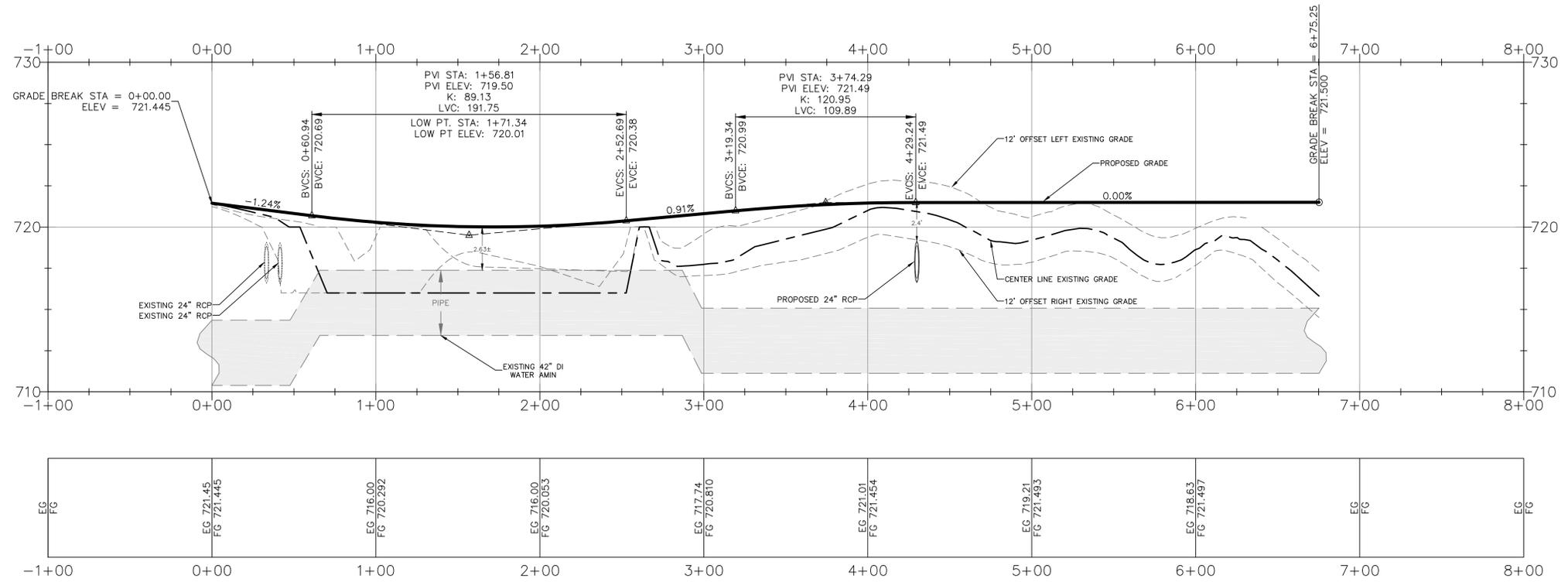
811
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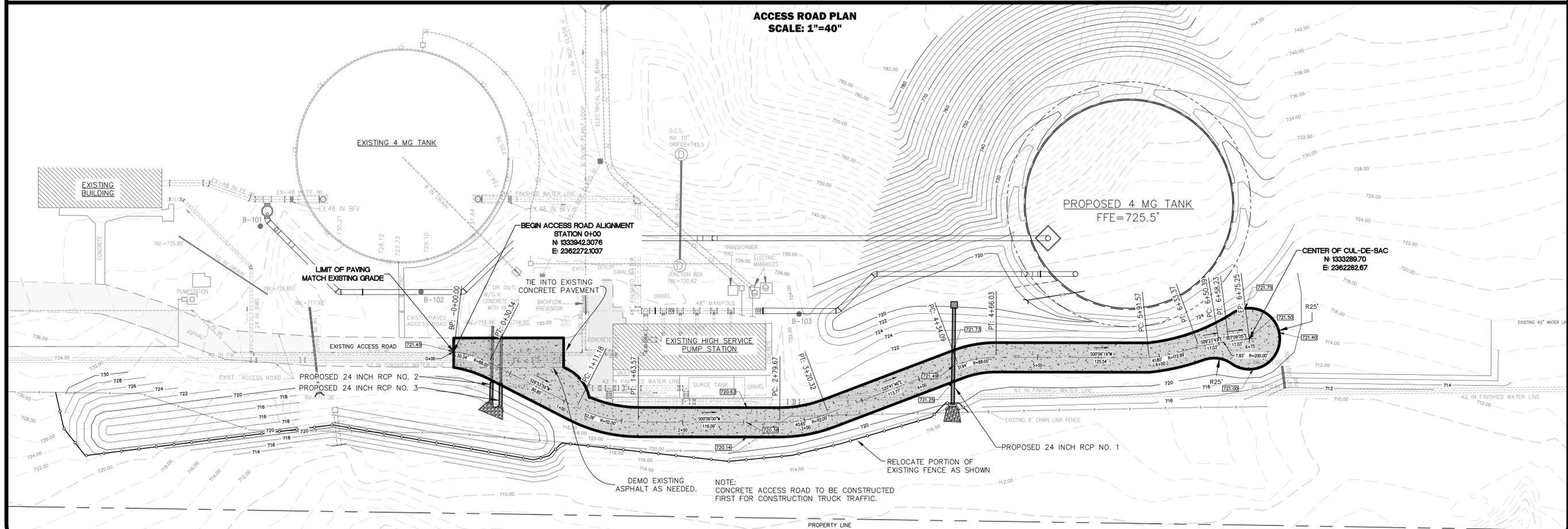
YARD PIPING PROFILES

DESIGNED BY: DAVID CERVONE
DRAWN BY: WALT BOBO
CHECKED BY: DAVID CERVONE
DATE: 05/30/2017
FILE NAME: STEPLAN

SHEET
C-03



ACCESS ROAD PROFILE
SCALE HORIZONTAL: 1"=40"
SCALE VERTICAL: 1"=4"



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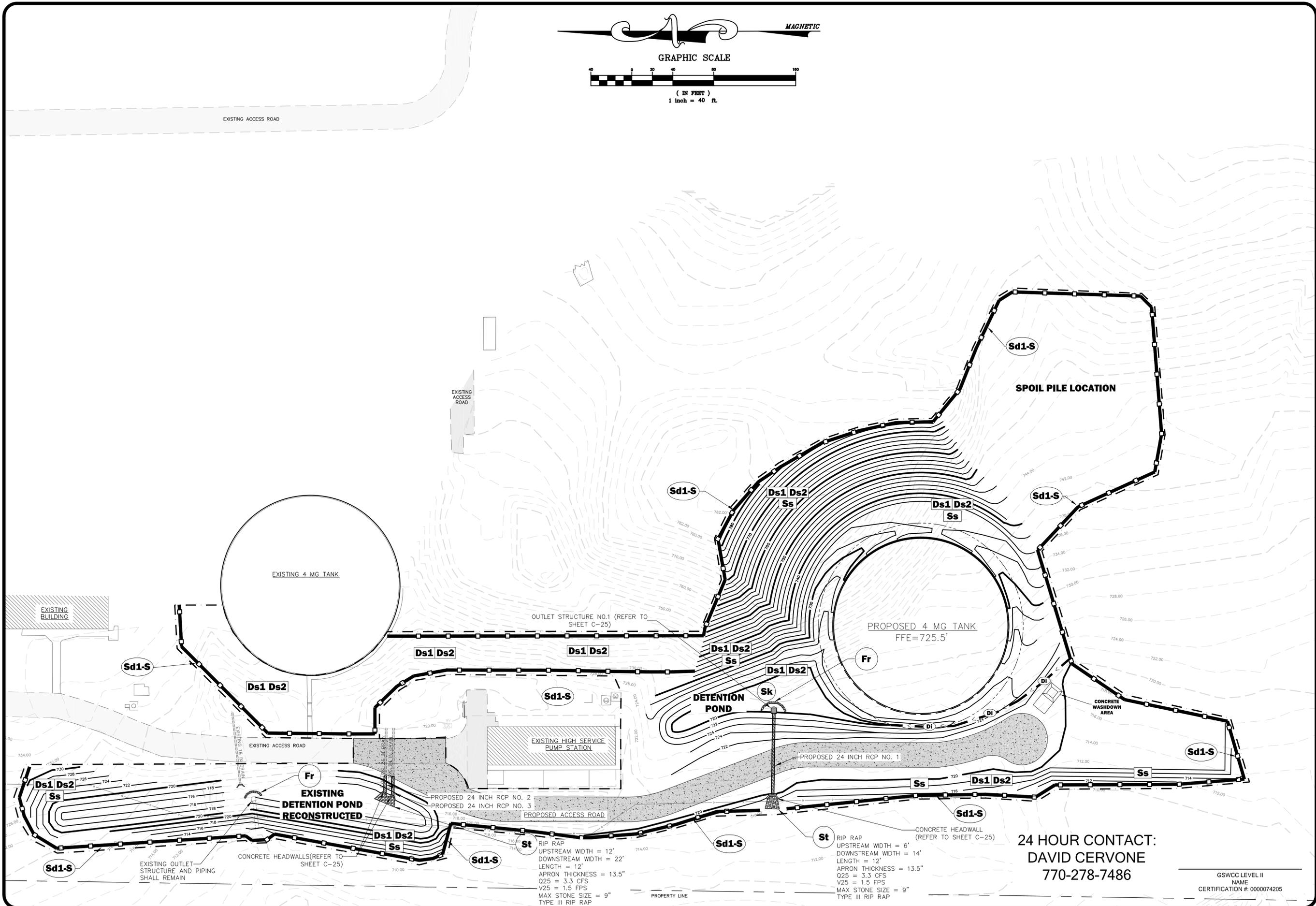
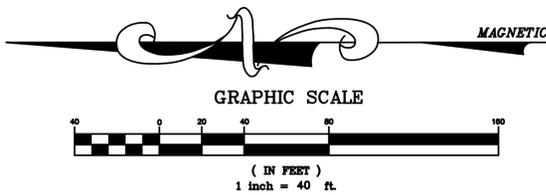


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**SITE ACCESS ROAD
 PLAN AND PROFILE**

DESIGNED BY: DAVID CERVONE
 DRAWN BY: WALT BOBO
 CHECKED BY: DAVID CERVONE
 DATE: 05/30/2017
 FILE NAME: STEPLAN

SHEET
C-04



EXISTING ACCESS ROAD

EXISTING 4 MG TANK

EXISTING ACCESS ROAD

OUTLET STRUCTURE NO.1 (REFER TO SHEET C-25)

PROPOSED 4 MG TANK
FFE=725.5'

SPOIL PILE LOCATION

EXISTING BUILDING

EXISTING HIGH SERVICE PUMP STATION

DETENTION POND

CONCRETE WASHDOWN AREA

EXISTING DETENTION POND RECONSTRUCTED

PROPOSED 24 INCH RCP NO. 2
PROPOSED 24 INCH RCP NO. 3

PROPOSED 24 INCH RCP NO. 1

St RIP RAP
UPSTREAM WIDTH = 12'
DOWNSTREAM WIDTH = 22'
LENGTH = 12'
APRON THICKNESS = 13.5"
Q25 = 3.3 CFS
V25 = 1.5 FPS
MAX STONE SIZE = 9"
TYPE III RIP RAP

St RIP RAP
UPSTREAM WIDTH = 6'
DOWNSTREAM WIDTH = 14'
LENGTH = 12'
APRON THICKNESS = 13.5"
Q25 = 3.3 CFS
V25 = 1.5 FPS
MAX STONE SIZE = 9"
TYPE III RIP RAP

CONCRETE HEADWALL (REFER TO SHEET C-25)

24 HOUR CONTACT:
DAVID CERVONE
770-278-7486

GSWCC LEVEL II
NAME
CERTIFICATION #: 0000074205

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PHONE (770)278-7486
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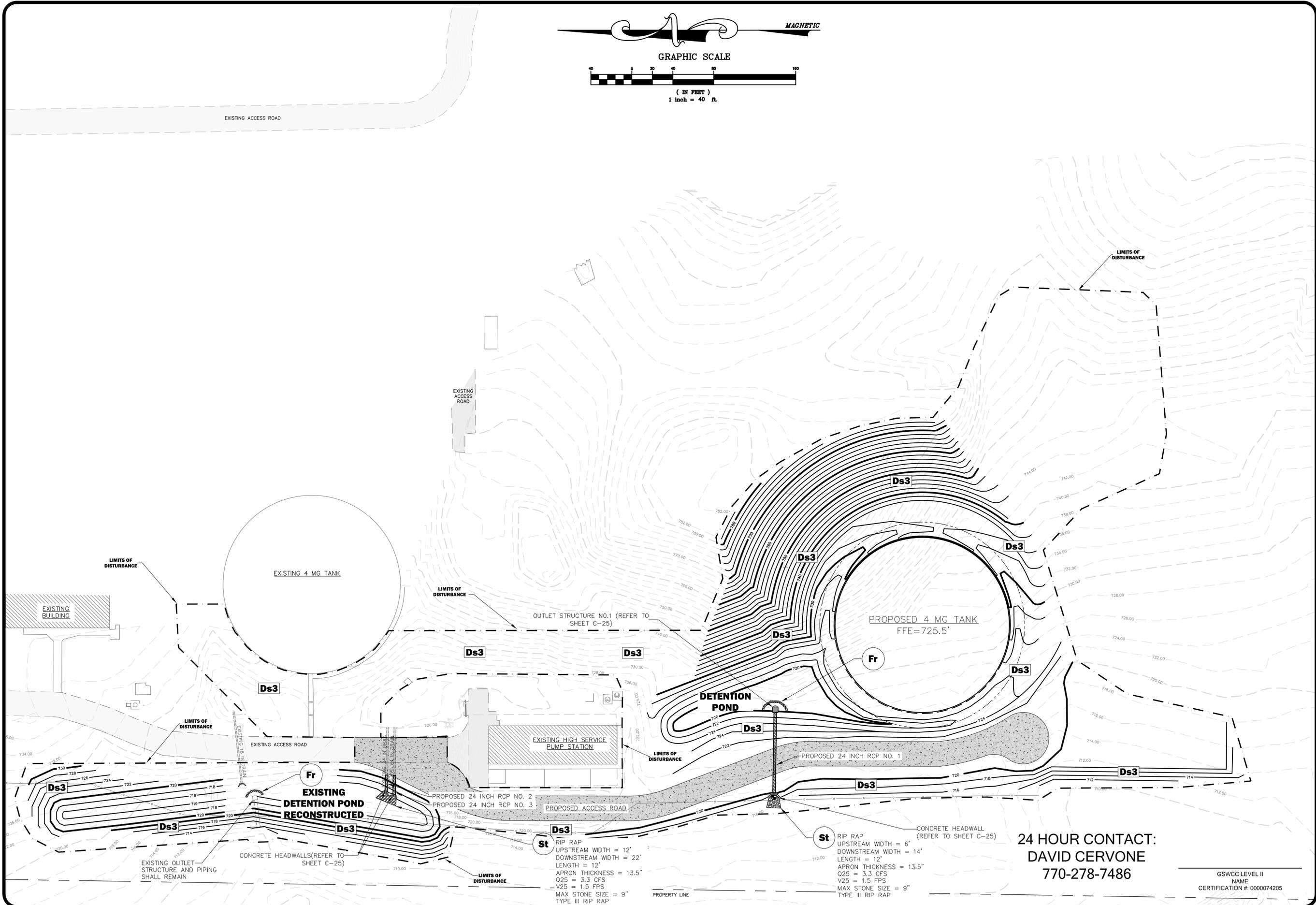
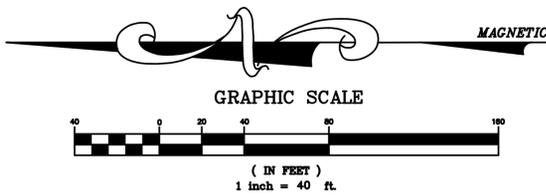


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| No. | 0 | ISSUED FOR BID |
| | 02/28/2017 | |

**EROSION CONTROL PLAN
INTERMEDIATE PHASE**

DESIGNED BY: DAVID CERVONE
DRAWN BY: WALT BOBO
CHECKED BY: DAVID CERVONE
DATE: 05/30/2017
FILE NAME: STEPLAN

SHEET
C-06



St RIP RAP
 UPSTREAM WIDTH = 12'
 DOWNSTREAM WIDTH = 22'
 LENGTH = 12'
 APRON THICKNESS = 13.5"
 Q25 = 3.3 CFS
 V25 = 1.5 FPS
 MAX STONE SIZE = 9"
 TYPE III RIP RAP

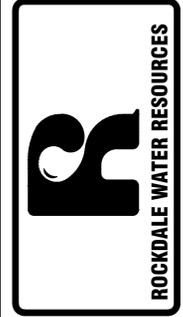
St RIP RAP
 UPSTREAM WIDTH = 6'
 DOWNSTREAM WIDTH = 14'
 LENGTH = 12'
 APRON THICKNESS = 13.5"
 Q25 = 3.3 CFS
 V25 = 1.5 FPS
 MAX STONE SIZE = 9"
 TYPE III RIP RAP

CONCRETE HEADWALL
 (REFER TO SHEET C-25)

24 HOUR CONTACT:
DAVID CERVONE
770-278-7486

GSWCC LEVEL II
 NAME
 CERTIFICATION #: 0000074205

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| REVISION | |
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EROSION CONTROL PLAN
FINAL PHASE

DESIGNED BY: DAVID CERVONE
 DRAWN BY: WALT BOBO
 CHECKED BY: DAVID CERVONE
 DATE: 05/30/2017
 FILE NAME: STEPLAN

SHEET
C-07

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS
SWCD: ROCKDALE WATER RESOURCES

Project Name: GEE'S MILL WTP 4MG WATER STORAGE TANK Address: 3090 GEE'S MILL ROAD, CONYERS GA, 30013
City/County: ROCKDALE Date on Plans:

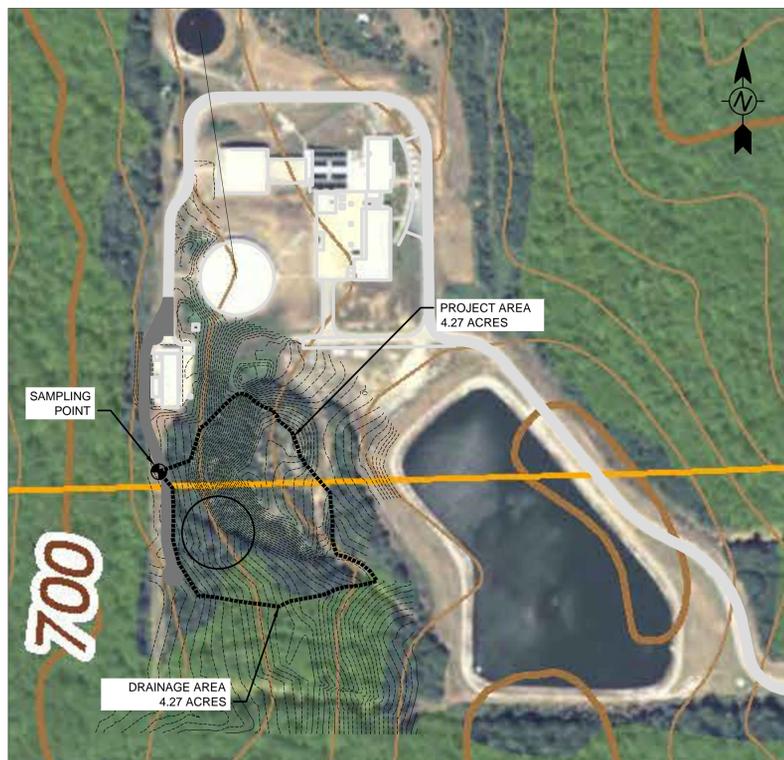
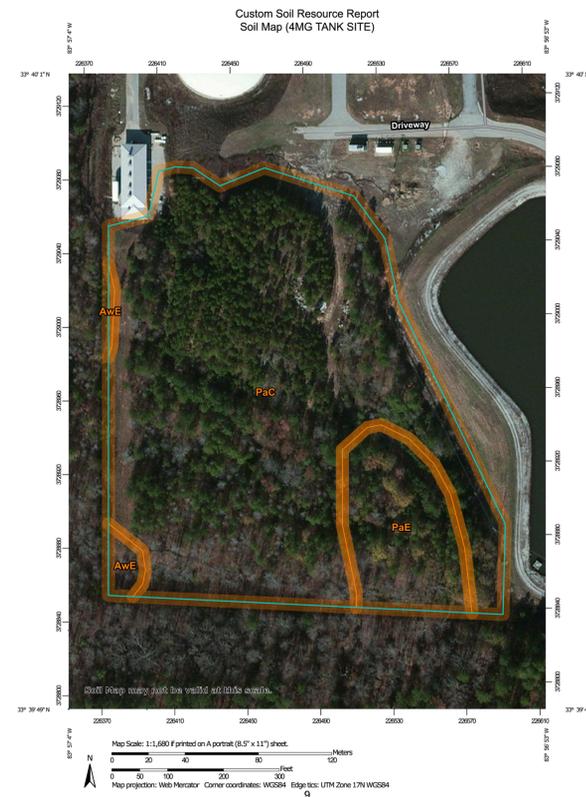
| Plan Page # | Included Y/N | TO BE SHOWN ON ES&PC PLAN |
|-------------|--------------|---|
| C-08 | Y | 1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. <i>(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)</i> |
| C-05-12 | Y | 2 Level II certification number issued by the Commission, signature and seal of the certified design professional. <i>(Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)</i> |
| N/A | N/A | 3 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. If EPD approves the request to disturb 50 acres or more at any one time, the plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist. <i>(A copy of the written approval by EPD must be attached to the plan for the plan to be reviewed.)</i> |
| G-00 | Y | 4 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls. |
| G-00 | Y | 5 Provide the name, address and phone number of primary permittee. |
| C-10 | Y | 6 Note total and disturbed acreage of the project or phase under construction. |
| C-10 | Y | 7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees. |
| G-00 | Y | 8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions. |
| C-10 | Y | 9 Description of the nature of construction activity. |
| G-00 | Y | 10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary. |
| C-10 | Y | 11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected. |
| C-09 | Y | 12 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on page 15 of the permit. |
| C-09 | Y | 13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on page 15 of the permit. |
| C-09 | Y | 14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." |
| C-09 | Y | 15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of westered vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits." |
| N/A | N/A | 16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required. |
| C-09 | Y | 17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." |

| | | |
|---------|-----|---|
| C-10 | Y | 18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit." |
| C-09 | Y | 19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities." |
| C-09 | Y | 20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source." |
| C-09 | Y | 21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding." |
| N/A | N/A | 22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Impaired Stream Segment must comply with Part III. C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment." |
| N/A | N/A | 23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan." |
| C-06 | Y | 24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited." |
| C-10 | Y | 25 Provide BMPs for the remediation of all petroleum spills and leaks. |
| C-10 | Y | 26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed." |
| C-10 | Y | 27 Description of the practices that will be used to reduce the pollutants in storm water discharges." |
| C-09 | Y | 28 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization). |
| C-10 | Y | 29 Provide complete requirements of inspections and record keeping by the primary permittee." |
| C-10 | Y | 30 Provide complete requirements of sampling frequency and reporting of sampling results." |
| C-10 | Y | 31 Provide complete details for retention of records as per Part IV.F. of the permit." |
| C-10 | Y | 32 Description of analytical methods to be used to collect and analyze the samples from each location." |
| C-09 | Y | 33 Appendix B rationale for NTU values at all outfall sampling points where applicable." |
| C-05-06 | Y | 34 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged." |
| C-09 | Y | 35 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the plan may combine all of the BMPs into a single phase." |
| C-05-07 | Y | 36 Graphic scale and North arrow. |
| C-05-07 | Y | 37 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: |

| Map Scale | Ground Slope | Contour Intervals, ft. |
|--------------------------------|---|---------------------------------|
| 1 inch = 100ft or larger scale | Flat 0 - 2% Rolling 2 - 8% Sleep 8% + | 0.5 or 1 1 or 2 2.5 or 10 |

| | | |
|---------|-----|---|
| N/A | N/A | 38 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gswcc.org. |
| N/A | N/A | 39 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition." |
| N/A | N/A | 40 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact. |
| N/A | N/A | 41 Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site. |
| C-08 | Y | 42 Delineation and acreage of contributing drainage basins on the project site. |
| N/A | N/A | 43 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions." |
| C-10 | Y | 44 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed. |
| C-12 | Y | 45 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points. |
| C-08 | Y | 46 Soil series for the project site and their delineation. |
| C-05-07 | Y | 47 The limits of disturbance for each phase of construction. |
| C-06 | Y | 48 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the plan. |
| C-11 | Y | 49 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend. |
| C-12 | Y | 50 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia. |
| C-10 | Y | 51 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the year that seeding will take place and for the appropriate geographic region of Georgia. |

"If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the * checklist items would be N/A. Effective January 1, 2017



DRAINAGE AREA / SAMPLING LOCATIONS MAP
SCALE: 1"=200'

Map Unit Legend (4MG TANK SITE)

| Newton and Rockdale Counties, Georgia (GA649) | | | |
|---|---|--------------|----------------|
| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
| AwE | Ashlar-Pacolet-Hedowee complex, 15 to 25 percent slopes | 0.2 | 1.7% |
| PaC | Pacolet sandy loam, 6 to 10 percent slopes | 8.8 | 84.9% |
| PaE | Pacolet sandy loam, 15 to 25 percent slopes | 1.4 | 13.4% |
| Totals for Area of Interest | | 10.3 | 100.0% |

MAP LEGEND

- Area of Interest (AOI)**
 - Area of Interest (AOI)
- Soils**
 - Soil Map Unit Polygons
 - Soil Map Unit Lines
 - Soil Map Unit Points
- Special Point Features**
 - Blowout
 - Borrow Pit
 - Clay Spot
 - Closed Depression
 - Gravel Pit
 - Gravelly Spot
 - Landfill
 - Lava Flow
 - Marsh or swamp
 - Mine or Quarry
 - Miscellaneous Water
 - Perennial Water
 - Rock Outcrop
 - Saline Spot
 - Sandy Spot
 - Severely Eroded Spot
 - Sinkhole
 - Slide or Slip
 - Sodic Spot
- Water Features**
 - Streams and Canals
- Transportation**
 - Rails
 - Interstate Highways
 - US Routes
 - Major Roads
 - Local Roads
- Background**
 - Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: www.nrcs.usda.gov/wss
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Newton and Rockdale Counties, Georgia
Survey Area Date: Version 9, Sep 13, 2016

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 10, 2011-Jan 15, 2012

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

24 HOUR CONTACT:
DAVID CERVONE
770-278-7486

GSWCC LEVEL II
DAVID CERVONE
CERTIFICATION #: 0000074205

1329 PORTMAN DRIVE
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PHONE (770)278-7482
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| REVISION | NO. | DATE | DESCRIPTION |
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EROSION CONTROL NOTES 1

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DATE: 11/18/2016
FILE NAME: SITEPLAN

SHEET
C-08

SITE DESCRIPTION

THE DEVELOPMENT SHALL CONSIST OF THE CONSTRUCTION OF A 4 MG TANK, YARD PILING, AND ACCESS ROAD FOR THE GEES MILL WATER TREATMENT PLANT.

THE ORDER OF MAJOR LAND DISTURBING ACTIVITIES IS INDICATED IN THE ACTIVITY SCHEDULE LOCATED ON C-09 OF THE PLAN SET.

THE TOTAL SITE FOR THE GEES MILL WATER TREATMENT PLANT IS 100 ACRES AND 5.78 ACRES IS ESTIMATED TO BE DISTURBED BY EXCAVATION, GRADING, OR OTHER ACTIVITIES.

DETAILED MAPPING INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER MAJOR GRADING ACTIVITIES, AREA OF SOIL DISTURBANCE, AREAS TO REMAIN UNDISTURBED AND THE LOCATION OF MAJOR STRUCTURAL AND NON-STRUCTURAL CONTROLS, LOCATION OF AREAS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR, ANY SURFACE WATERS (INCLUDING WETLANDS) AND LOCATIONS WHERE STORM WATER IS TO BE DISCHARGED ARE SHOWN ON THE GRADING AND DRAINAGE SHEET OF THESE PLANS.

THE RECEIVING WATERS FOR THE SITE IS YELLOW RIVER. THERE IS NO WETLAND ACREAGE AT THIS SITE.

THE CONSTRUCTION EXIT FOR THIS PROJECT IS LOCATED AT THE FOLLOWING

THE PRE-CONSTRUCTION RUNOFF COEFFICIENT 68.

THE POST-CONSTRUCTION RUNOFF COEFFICIENT 78.

COORDINATES:

N 1334132.57

E 2362188.46

CONTROLS

EROSION AND SEDIMENT CONTROLS:

STABILIZATION MEASURES: ALL DISTURBED AREAS SHALL BE STABILIZED PER THE EROSION CONTROL NOTES INDICATED ON SHEETS CONTAINED WITHIN THIS PLAN SET. ALL TEMPORARY AND PERMANENT MULCHING, FERTILIZING AND SEEDING TO COMPLY WITH THE SCHEDULES SHOWN ON SHEET THIS SHEET AND THE EROSION CONTROL DETAIL SHEET. A RECORD OF THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES ARE INITIATED SHALL BE KEPT BY THE CONSTRUCTION SUPERINTENDENT RESPONSIBLE FOR THE OVERALL DEVELOPMENT OF THE SITE.

STRUCTURAL PRACTICES: LOCATION OF ALL PLANNED STRUCTURAL CONTROLS ARE SHOWN ON THE THREE PHASES OF ES&PC PLANS CONTAINED WITHIN THIS PLAN SET. ADDITIONAL STRUCTURAL CONTROLS MAY BE REQUIRED THAT ARE NOT SHOWN AND SHOULD BE UTILIZED WHENEVER APPROPRIATE. ALL STRUCTURAL CONTROLS SHALL BE INSTALLED PER THE REFERENCED SWCC MANUAL AND PER THE DETAILS SHOWN WITHIN THIS PLAN SET.

SEDIMENT BASINS: SEDIMENT BASIN(S) ARE SHOWN ON THE PHASE I AND PHASE II SHEETS OF THE ES&PC PLANS CONTAINED WITHIN THIS PLAN SET. BASIN DETAILS ARE SHOWN ON THE DETAIL SHEETS WITHIN THIS PLAN SET.

STORM WATER MANAGEMENT:

DETENTION FACILITIES ARE SHOWN ON THE GRADING AND DRAINAGE PLAN SHEET WITHIN THIS PLAN SET AND ANALYZED IN THE HYDROLOGY STUDY. DRAINAGE IS PROVIDED AND ROUTED FOR AT LEAST A MINIMUM 25 YEAR STORM FREQUENCY.

NON-STORM WATER DISCHARGES

ALL NON-STORM WATER DISCHARGES WILL BE ROUTED THROUGH ON SITE BMPs AND TO STORM WATER MANAGEMENT SYSTEMS WHERE POSSIBLE. THESE DISCHARGES INCLUDE FLUSHING OF WATER AND FIRE LINES, IRRIGATION WATER, GROUND WATER DEWATERING OF PITS OR DEPRESSIONS WITHIN THE CONSTRUCTION SITE AND RINSE OFF WATER OF NON-TOXIC MATERIALS.

OTHER CONTROLS

WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

WASTE MATERIALS

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUESTED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE.

HAZARDOUS WASTES

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF THE MANNER SPECIFIED BY LOCAL, STATE AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCT. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE SUPERINTENDENT, WHO WILL ALSO BE MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THE ESPCP AND WILL TRAIN ALL PERSONAL IN THE PROPER CLEAN UP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIAL OF HAZARDOUS WASTE WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCUR, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

COMPLIANCE W/ FEDERAL/STATE/LOCAL REGULATIONS

THE CONTRACTOR WILL OBTAIN COPIES OF ANY AND ALL LOCAL AND STATE REGULATIONS THAT ARE APPLICABLE TO STORM WATER MANAGEMENT, EROSION CONTROL, AND POLLUTION MINIMIZATION AT THIS JOB SITE AND WILL COMPLY FULLY WITH SUCH REGULATIONS. THE CONTRACTOR WILL SUBMIT WRITTEN EVIDENCE OF SUCH COMPLIANCE IF REQUESTED BY THE OWNER OR ANY AGENT OF A REGULATORY BODY. THE CONTRACTOR WILL COMPLY WITH ALL CONDITIONS OF ANY AND ALL LOCAL, STATE, AND FEDERAL AGENCIES WHICH HAVE GOVERNING AUTHORITY, INCLUDING THE CONDITIONS RELATED TO MAINTAINING THE ESPCP AND EVIDENCE OF COMPLIANCE WITH ESPCP AT THE JOB SITE ALLOWING REGULATORY PERSONNEL ACCESS TO THE JOB SITE AND TO RECORDS IN ORDER TO DETERMINE COMPLIANCE.

A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BE LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO THE STORM WATER DISCHARGES IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO THE STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE ES&PC PLAN PHASE I SHEET WITHIN THIS PLAN SET BY THE CONTRACTOR ONCE THE LOCATION HAS BEEN DETERMINED.

INVENTORY FOR POLLUTION PREVENTION PLAN

THE FOLLOWING MATERIALS ARE EXPECTED ONSITE DURING CONSTRUCTION: CONCRETE PRODUCTS, ASPHALT, PETROLEUM BASED FUELS AND LUBRICANTS FOR EQUIPMENT, TAR, METAL BUILDING MATERIALS, LUMBER, SHEET ROCK, FLOOR COVERINGS, ELECTRICAL WIRE AND FIXTURES, PAINTS/STAINS/FINISHING TREATMENTS, POINTS, POINTS SOLVENTS, ADDITIVES FOR SOIL STABILIZATION, CLEANING SOLVENTS, PESTICIDES, FERTILIZERS, HERBICIDES, CRUSHED STONE, PLASTIC AND METAL PIPES.

SPILL PREVENTION

PRACTICES SUCH AS GOOD HOUSEKEEPING, PROPER HANDLING OF HAZARDOUS PRODUCTS AND PROPER SPILL CONTROL PRACTICES WILL BE FOLLOWED TO REDUCE THE RISK OF SPILLS AND SUBSEQUENT DISCHARGE INTO STORM WATER RUNOFF.

GOOD HOUSEKEEPING

1. QUANTITIES OF PRODUCTS STORED ONSITE WILL BE LIMITED TO THE AMOUNT NEEDED FOR THE JOB.
2. PRODUCTS AND MATERIALS WILL BE STORED IN THE NEAT, ORDERLY MANNER IN APPROPRIATE CONTAINERS PROTECTED FROM RAINFALL, WHERE POSSIBLE.
3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH MANUFACTURER LABELS LEGIBLE AND VISIBLE.
4. PRODUCT MIXING AND DISPOSAL OF PRODUCT CONTAINERS WILL BE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
5. THE CONTRACTOR WILL INSPECT SUCH MATERIALS TO ENSURE PROPER USE, STORAGE AND DISPOSAL.

PRODUCT SPECIFIC PRACTICES

PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATERS, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT AND MATERIALS USED WITH THESE PRODUCTS WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

CONCRETE TRUCK WASHING - CLEANING PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

SPILL CLEANUP AND CONTROL PRACTICES

1. LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
2. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
3. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
4. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
5. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN IN SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITH IN 24 HOURS AT 1-800-426-2675.
6. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.
7. FOR SPILLS LESS THEN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A COUNTERMEASURES PLAN PREPARED BY LICENSED PROFESSIONAL.

OFFSITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION EXIT HAS BEEN PROVIDED TO HELP REDUCE TRACKING OF SEDIMENT. SEE EROSION CONTROL PLANS AND DETAIL FOR CONSTRUCTION EXIT LOCATION AND CONSTRUCTION DETAILS. ANY PAVED STREET ADJACENT TO THE SITE CONSTRUCTION EXIT WILL BE COVERED WITH A TARPAULIN OR A WASH DOWN STATION UTILIZED AS APPROPRIATE FOR THE LEVEL OF SEDIMENT PRESENT.

A. PERMITEE REQUIREMENTS:

1. EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
2. MEASURE RAINFALL ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL MUST BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.
3. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE PRIMARY PERMITEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
4. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).
5. BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.
6. A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

REPORTING

1. THE PRIMARY PERMITEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:
2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:
 - a. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
 - b. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
 - c. THE DATE(S) ANALYSES WERE PERFORMED;
 - d. THE TIME(S) ANALYSES WERE INITIATED;
 - e. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
 - f. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
 - g. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;
 - h. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU"; AND
 - i. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.
3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. IF AN ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

THE PLAN SHALL INCLUDE A DESCRIPTION OF PROCEDURES TO ENSURE THE TIMELY MAINTENANCE OF VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THE SITE PLAN.

SAMPLING REQUIREMENTS

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS PARAGRAPH SHALL NOT APPLY TO ANY LAND DISTURBANCE ASSOCIATED WITH THE CONSTRUCTION OF SINGLE-FAMILY HOMES WHICH ARE NOT PART OF A SUBDIVISION OR PLANNED COMMON DEVELOPMENT UNLESS FIVE (5) ACRES OR MORE WILL BE DISTURBED. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.

- A. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:
 1. A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAINAGE (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;
 2. A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;
 3. WHEN THE PERMITEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND
 4. ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

B. SAMPLE TYPE: ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

1. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
2. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
3. LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
4. MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
5. SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

- C. SAMPLING POINTS:
 6. FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:
 - a. THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.
 - b. THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.
 - c. IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL ND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).
 - d. CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.
 - e. THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.
 - f. THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.

g. PERMITEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WATER DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION).

f. ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARDS SET FORTH IN PARTS I.II.D.3. OR I.II.D.4., WHICHEVER IS APPLICABLE.

D. SAMPLING FREQUENCY:

1. THE PRIMARY PERMITEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW, FOR A QUALIFYING EVENT, THE PERMITEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.
2. HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITEE'S CONTROL, THE PERMITEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.
3. SAMPLING BY THE PERMITEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:

- a. FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;
- b. IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;
- c. AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPs IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS' UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPs ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;
- d. WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITEE, IN ACCORDANCE WITH PART IV.D.4.a.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED, PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND
- e. EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

*NOTE THAT THE PERMITEE MAY CHOOSE TO MEET THE REQUIREMENTS OF a and b ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

RETENTION OF RECORDS

1. THE PRIMARY PERMITEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:
 - a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
 - b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
 - c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
 - d. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
 - e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.a. OF THIS PERMIT;
 - f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART I.II.D.2. OF THIS PERMIT; AND
 - g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.2. OF THIS PERMIT.
2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PROJECT SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITEE.

1829 PORTMAN DRIVE
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CONOVERS, GEORGIA 30004
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| 0 | 12/29/2017 | ISSUED FOR BID |
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NPDES NOTES

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|--------------|--------------|
| DESIGNED BY: | PAVEL VAYNER |
| DRAWN BY: | PAVEL VAYNER |
| CHECKED BY: | PAVEL VAYNER |
| DATE: | 11/18/2016 |
| FILE NAME: | SITEPLAN |

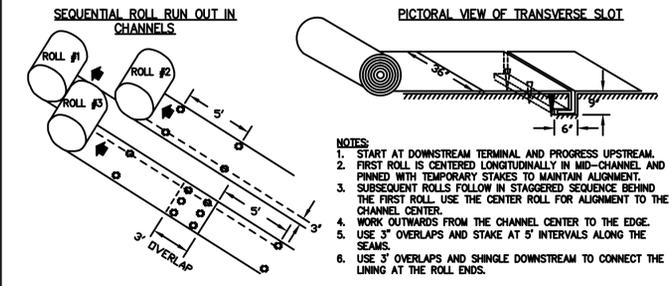
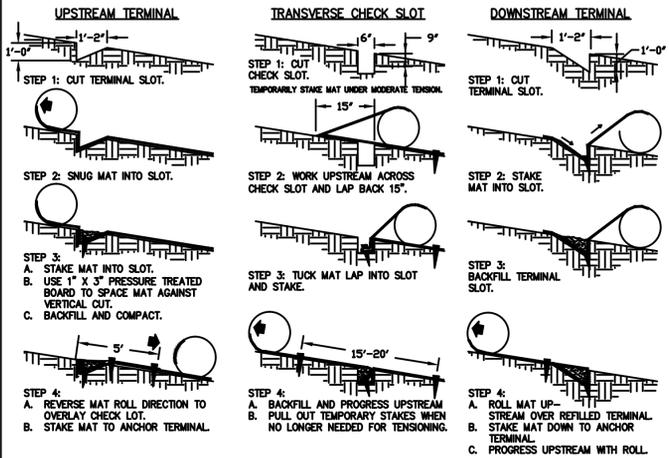
SHEET
C-10

GSWCC LEVEL II
DAVID CERVONE
CERTIFICATION #0000074205

24 HOUR CONTACT:
DAVID CERVONE
770-278-7486

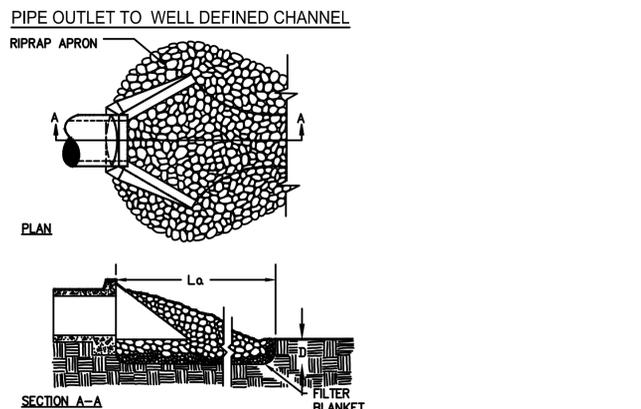
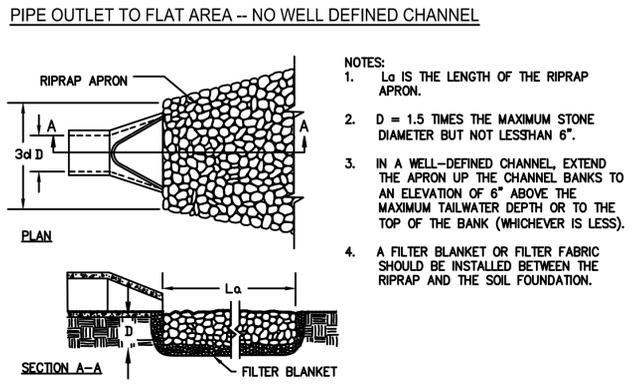
TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

BLANKET AND MATTING CROSS-SECTIONS



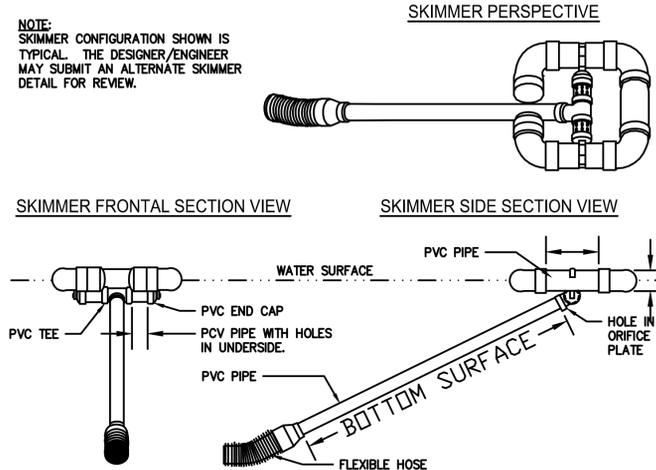
Ss SLOPE STABILIZATION

RIPRAP OUTLET PROTECTION



St STORM DRAIN OUTLET PROTECTION

TEMPORARY SEDIMENT POND



TO BE SHOWN ON THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN

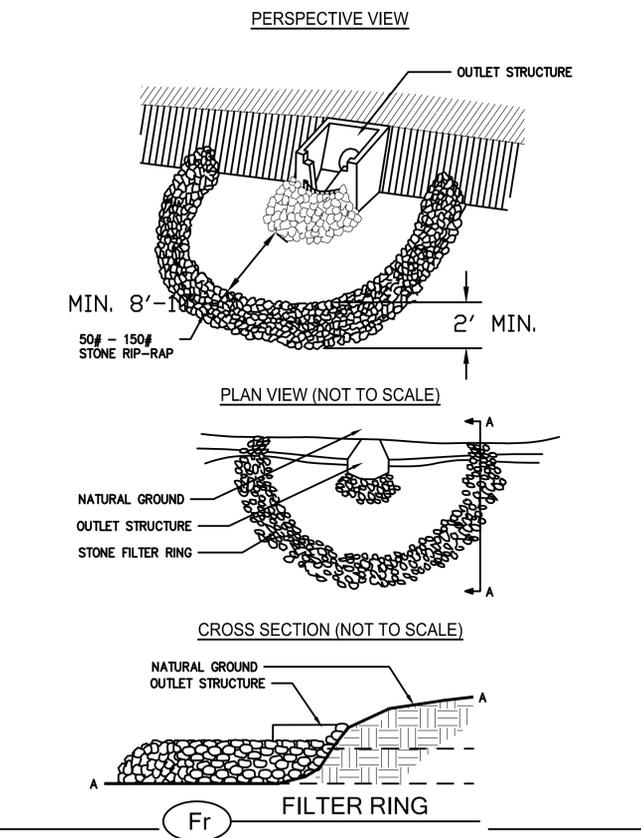
When a FLOATING SURFACE SKIMMER is used, show the following information along with each sediment pond, trap or basin being used on the site:

- Pond, trap or basin size, length* (top and bottom) width* (top and bottom) and depth = BASIN VOLUME IS TO BE RETROFITTED INTO THE STORMWATER POND AND IS 3800 CY
- Time to Drain (hrs) = 72 HOURS
- Skimmer Dimensions (orifice and head size)** ORIFICE DIA. = 1.3" / SKIMMER SIZE = 1.5"
- Manufacturer's name FAIRCLOTH SKIMMER

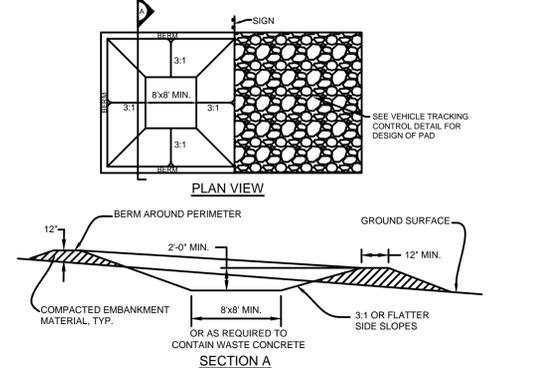
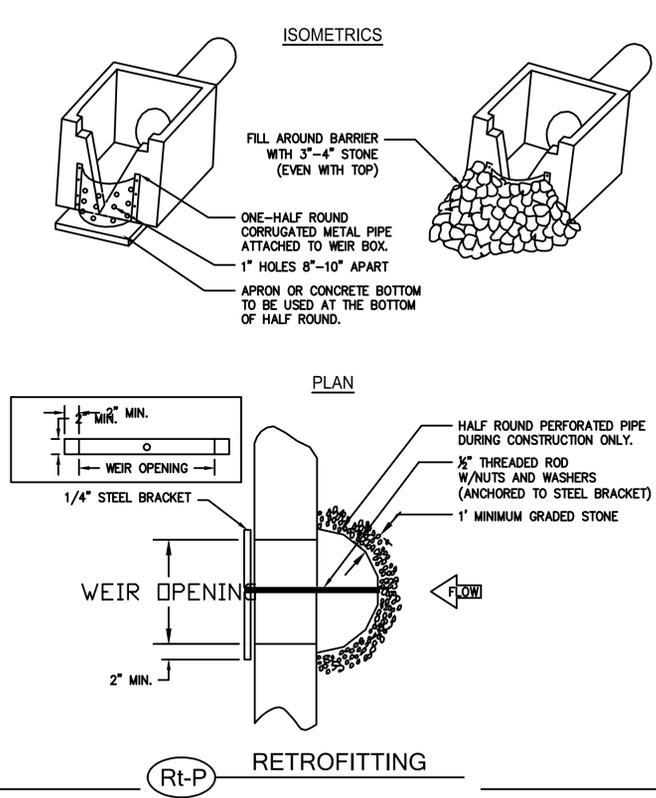
*feet, ** inches

Sk FLOATING SURFACE SKIMMER

STONE FILTER RING



PERFORATED HALF-ROUND PIPE WITH STONE FILTER



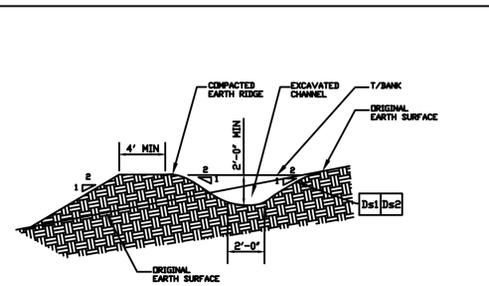
CONCRETE WASHOUT AREA INSTALLATION NOTES

- SEE PLAN VIEW FOR LOCATIONS OF CONCRETE WASHOUT AREA.
- THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
- VEHICLE TRACKING CONTROL IS REQUIRED AT THE ACCESS POINT.
- SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
- EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.

CONCRETE WASHOUT AREA MAINTENANCE NOTES

- THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
- AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
- WHEN THE CONCRETE WASHOUT AREA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, DRILL SEED AND CRIMP MULCH OR OTHERWISE STABILIZE IN A MANNER APPROVED BY THE LOCAL JURISDICTION.
- INSPECT WEEKLY, DURING AND AFTER ANY STORM EVENT.

CONCRETE WASHDOWN AREA



24 HOUR CONTACT:
DAVID CERVONE
770-278-7486

CSWCC LEVEL II
DAVID CERVONE
CERTIFICATION #0000074205

1329 POCKETMAN DRIVE
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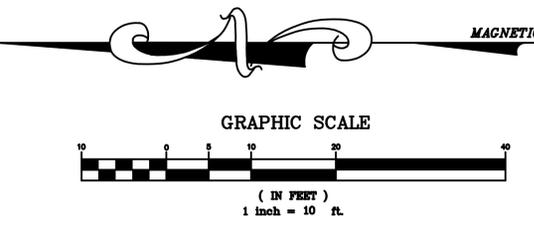
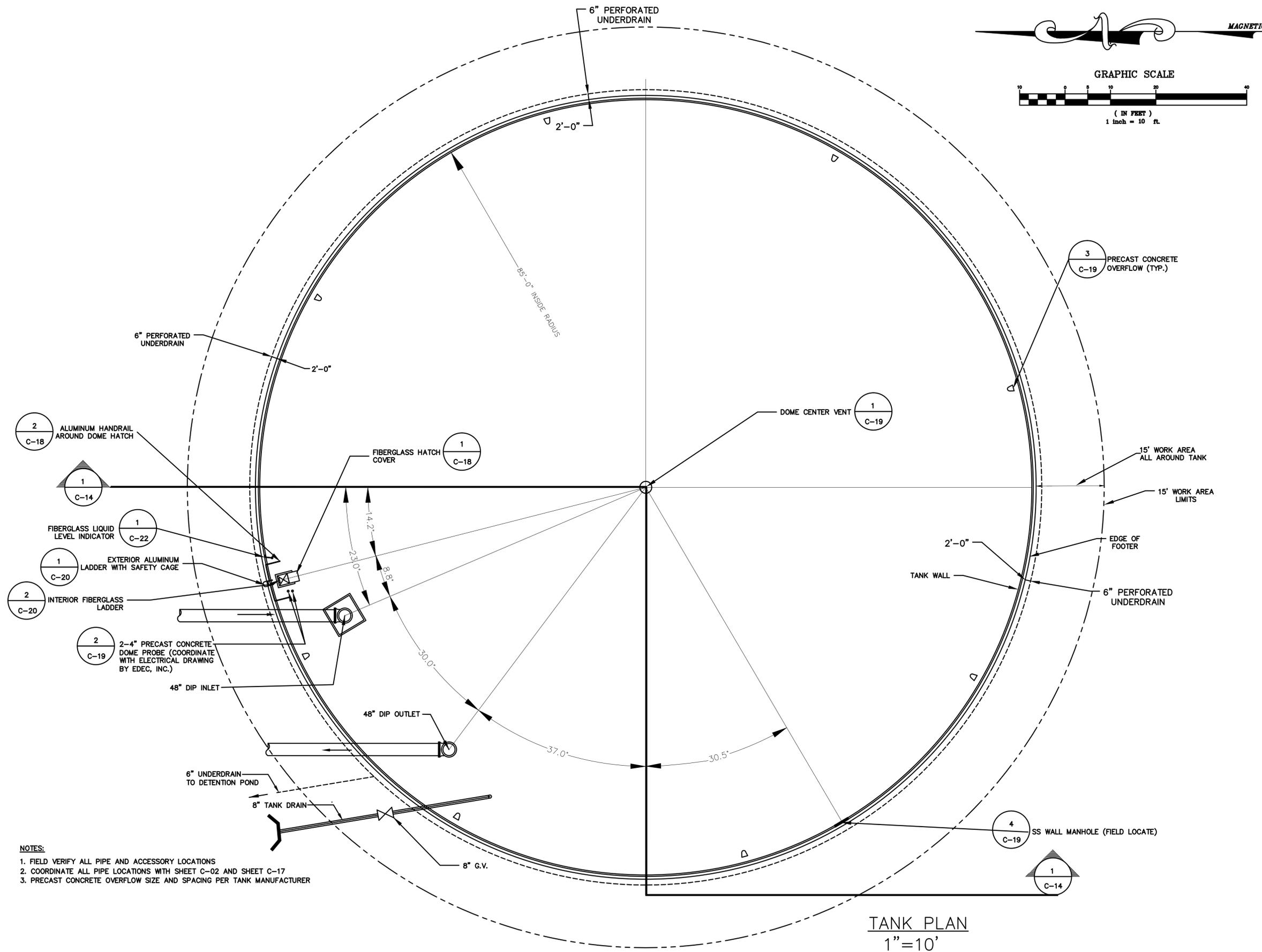


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EROSION CONTROL DETAILS

DESIGNED BY: PAVEL VAYNER
DRAWN BY: PAVEL VAYNER
CHECKED BY: PAVEL VAYNER
DATE: 11/18/2016
FILE NAME: SITEPLAN

SHEET
C-12



- NOTES:**
1. FIELD VERIFY ALL PIPE AND ACCESSORY LOCATIONS
 2. COORDINATE ALL PIPE LOCATIONS WITH SHEET C-02 AND SHEET C-17
 3. PRECAST CONCRETE OVERFLOW SIZE AND SPACING PER TANK MANUFACTURER

TANK PLAN
1"=10'

1329 PORTMAN DRIVE
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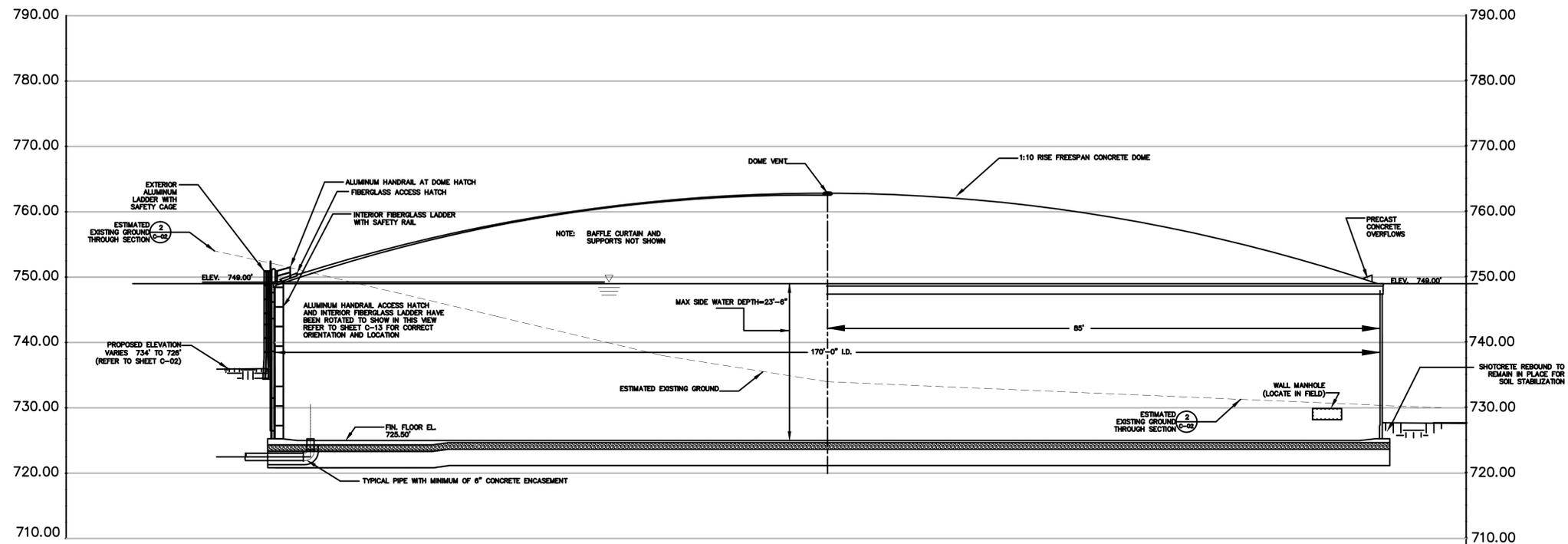


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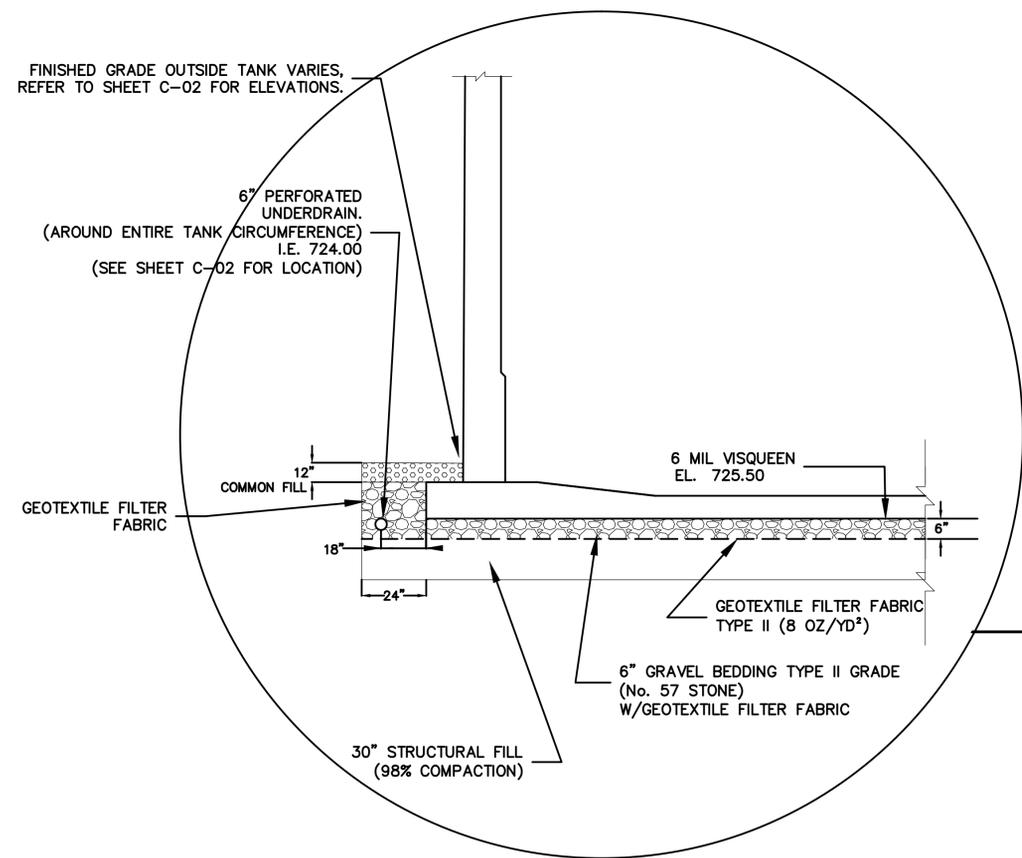
TANK PLAN

DESIGNED BY: DAVID CERVONE
DRAWN BY: JULIO TRINIDAD
CHECKED BY: DAVID CERVONE
DATE: 11/18/2016
FILE NAME: SITEPLAN

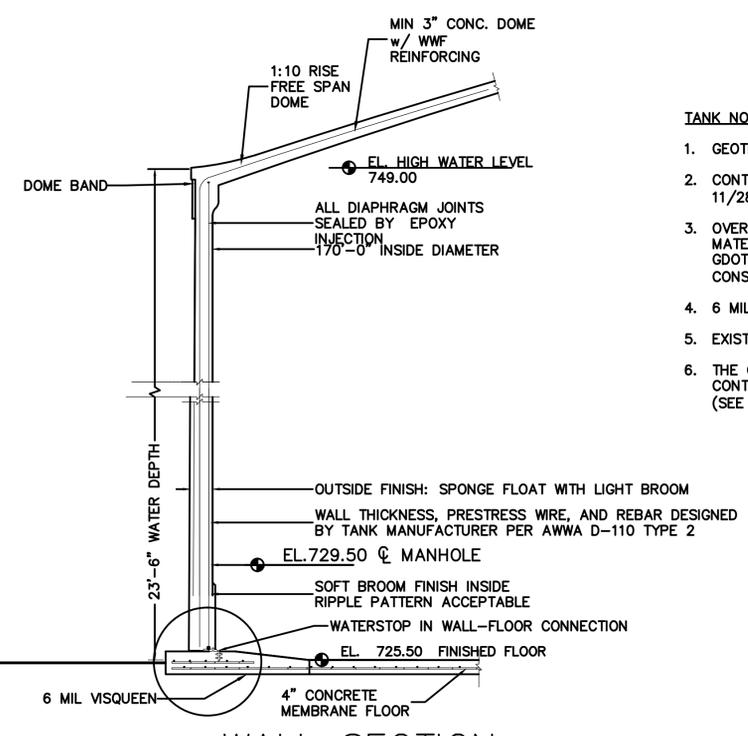
SHEET
C-13



SECTION 1 TANK SECTION & ELEVATION
 ELEVATION 2 EXISTING GROUND
 HORIZ. AND VERTICAL SCALE: 1"=10'



ENLARGED WALL SECTION
 NTS



WALL SECTION
 NTS
 NOTE: REFER TO TANK MANUFACTURER DESIGN FOR WALL DETAILS

TANK NOTES

1. GEOTEXTILE FABRIC SHALL BE IN ACCORDANCE WITH SPECIFICATIONS
2. CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT PREPARED BY UNITED CONSULTING DATED 11/28/14 AND 9/19/16
3. OVER EXCAVATE TO BEDROCK IN LOCATIONS WHERE BEDROCK IS BELOW BOTTOM OF STRUCTURAL MATERIAL LAYER AND FILL WITH FLOWABLE FILL WITH A MINIMUM 28-DRY STRENGTH OF 125 PSI AS PER GDOT SUPPLEMENTAL SPECIFICATIONS SECTION 600. REFER TO GEOTECHNICAL REPORT BY UNITED CONSULTING DATED 11/28/14. CONFIRM DESIGN REQUIREMENTS WITH TANK MANUFACTURER.
4. 6 MIL POLY SHEETING UNDER ENTIRE FLOOR AREA
5. EXISTING GROUND ELEVATION IS THROUGH SECTION 2 AS SHOWN ON SHEET C-02
6. THE CONTRACTOR MUST CONFIRM ALL ROCK DEPTHS FROM THE EXISTING GROUND SURFACE. THE CONTRACTOR SHALL SURVEY THE EXPOSED ROCK SURFACE AS REQUIRED IN THE CONTRACT DOCUMENTS (SEE BORING LOCATIONS ON SHEET C-02)

1329 PORTMAN DRIVE
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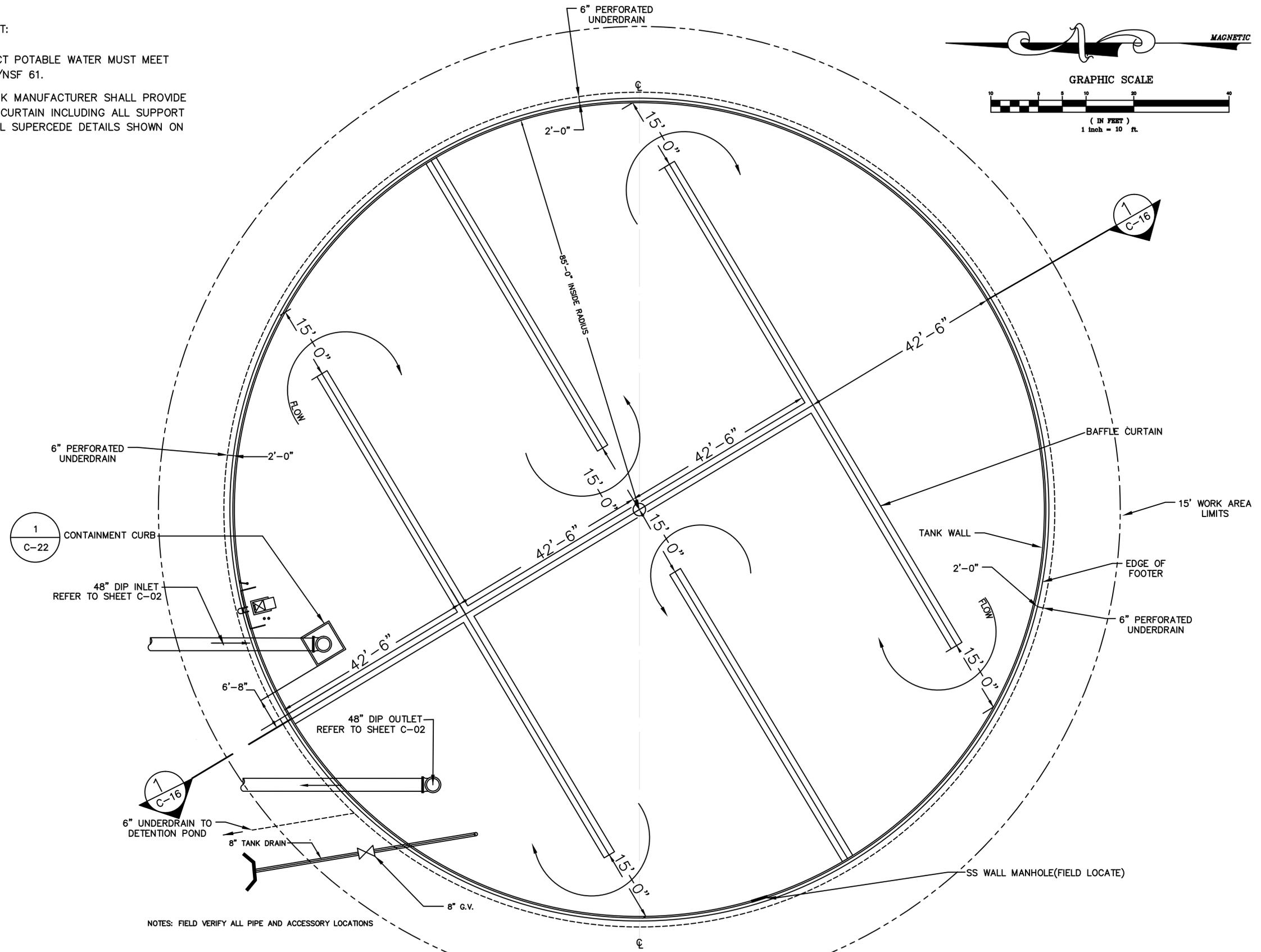
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TANK ELEVATION

DESIGNED BY: DAVID CERVONE
 DRAWN BY: JULIO TRINIDAD
 CHECKED BY: DAVID CERVONE
 DATE: 11/18/2016
 FILE NAME: SITEPLAN

GENERAL NOTES FOR THIS SHEET:

1. ALL MATERIALS THAT CONTACT POTABLE WATER MUST MEET THE SPECIFICATIONS OF ANSI/NSF 61.
2. PRESTRESSED CONCRETE TANK MANUFACTURER SHALL PROVIDE DETAILED DESIGN OF BAFFLE CURTAIN INCLUDING ALL SUPPORT AND CONNECTIONS WHICH WILL SUPERCEDE DETAILS SHOWN ON THIS DRAWING



BAFFLE CURTAIN PLAN
1"=10'

NOTES: FIELD VERIFY ALL PIPE AND ACCESSORY LOCATIONS

1329 PORTMAN DRIVE
SUITE B
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PHONE (770)278-7432
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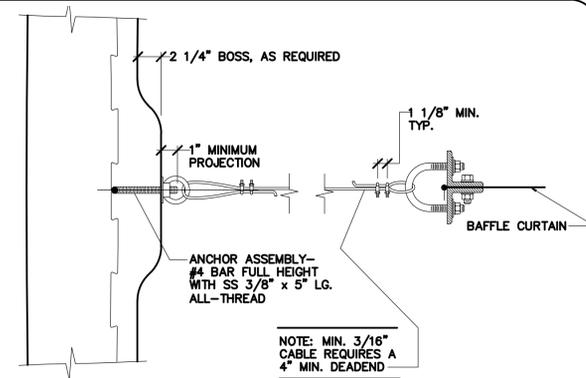
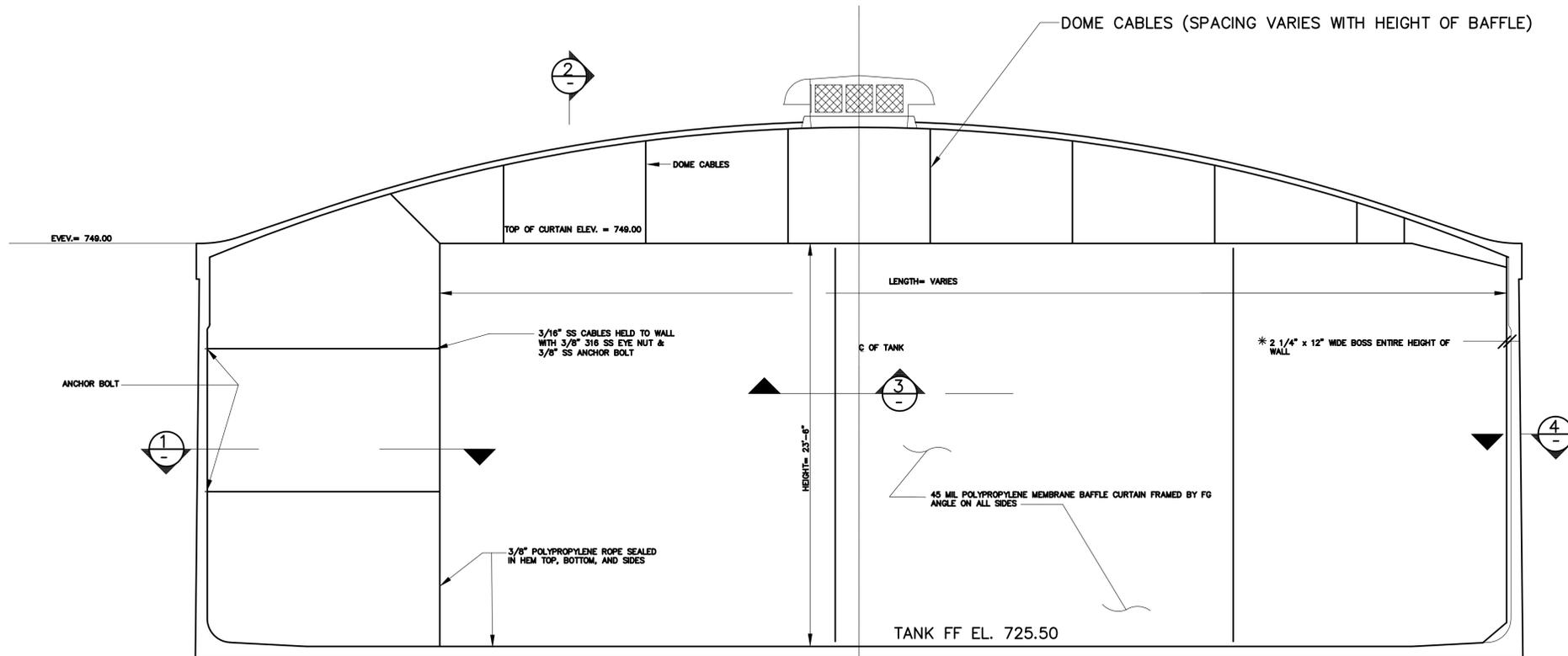


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| No. | DATE |
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| | ISSUED FOR BID |

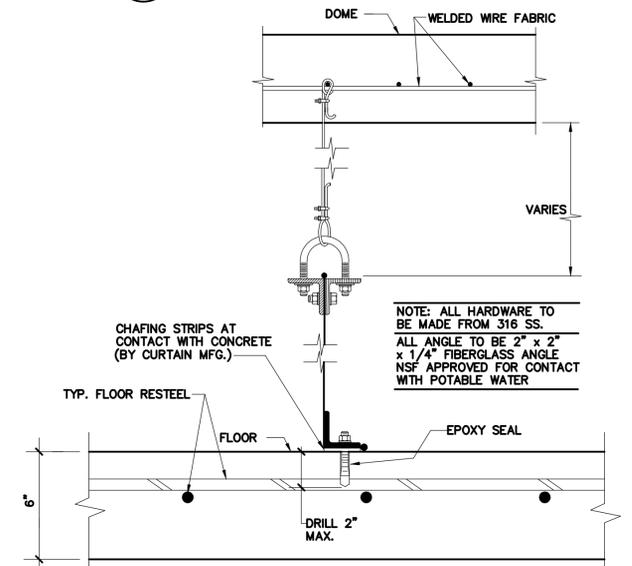
BAFFLE CURTAIN PLAN

DESIGNED BY: DAVID CERVONE
DRAWN BY: JULIO TRINIDAD
CHECKED BY: DAVID CERVONE
DATE: 11/18/2016
FILE NAME: SITEPLAN

SHEET
C-15

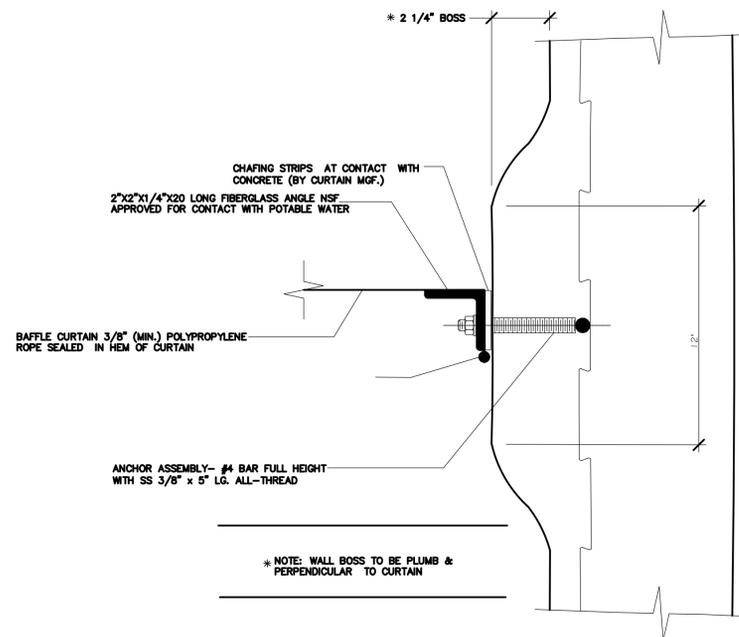


1 OPEN END SECTION
NTS

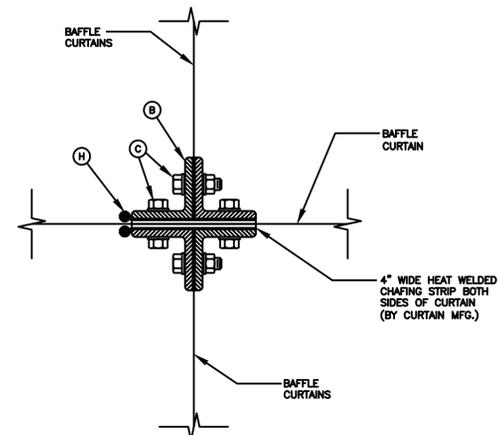


2 DOME/FLOOR SECTION
NTS

1 BAFFLE CURTAIN SECTION
C-15 NTS



4 WALL ANGLE SECTION
NTS



3 CONNECTION SECTION
NTS

- (B) 2"x2"x1/4"x20 LONG FIBERGLAS ANGLE NSF APPROVED FOR CONTACT WITH POTABLE WATER
- (C) 3/8"x1 1/2" SS BOLT, 2-3/8"x 1 1/4" OD WASHERS & NUT (ALL 316SS) WITH POTABLE WATER
- (H) 3/8" POLYPROPYLENE ROPE SEALED IN HEM OF CURTAIN

GENERAL NOTES FOR THIS SHEET:

1. ALL MATERIALS THAT CONTACT POTABLE WATER MUST MEET THE SPECIFICATIONS OF ANSI/NSF 61.
2. PRESTRESSED CONCRETE TANK MANUFACTURER SHALL PROVIDE DETAILED DESIGN OF BAFFLE CURTAIN INCLUDING ALL SUPPORT AND CONNECTIONS WHICH WILL SUPERCEDE DETAILS SHOWN ON THIS DRAWING

1329 PORTMAN DRIVE
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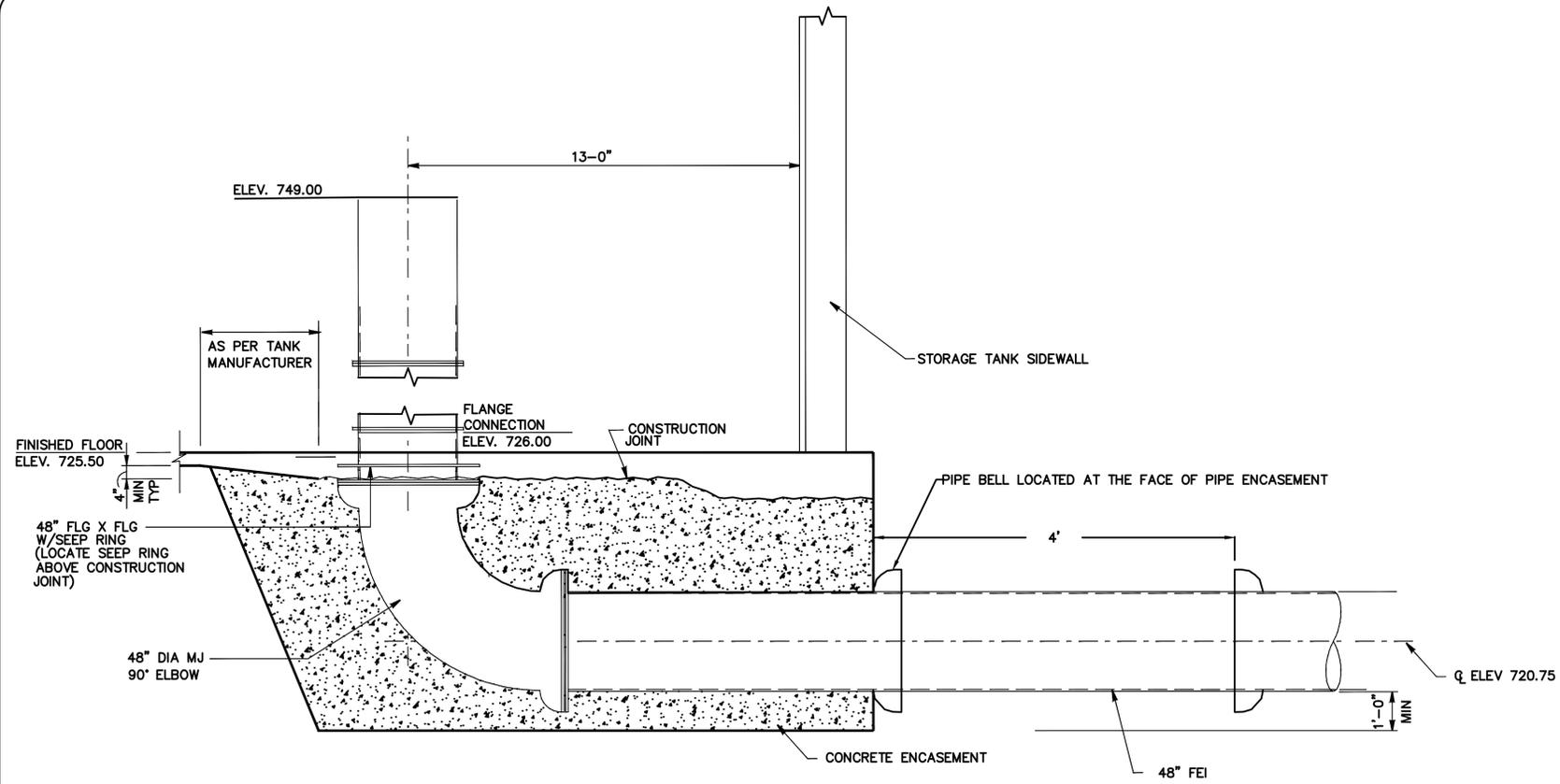


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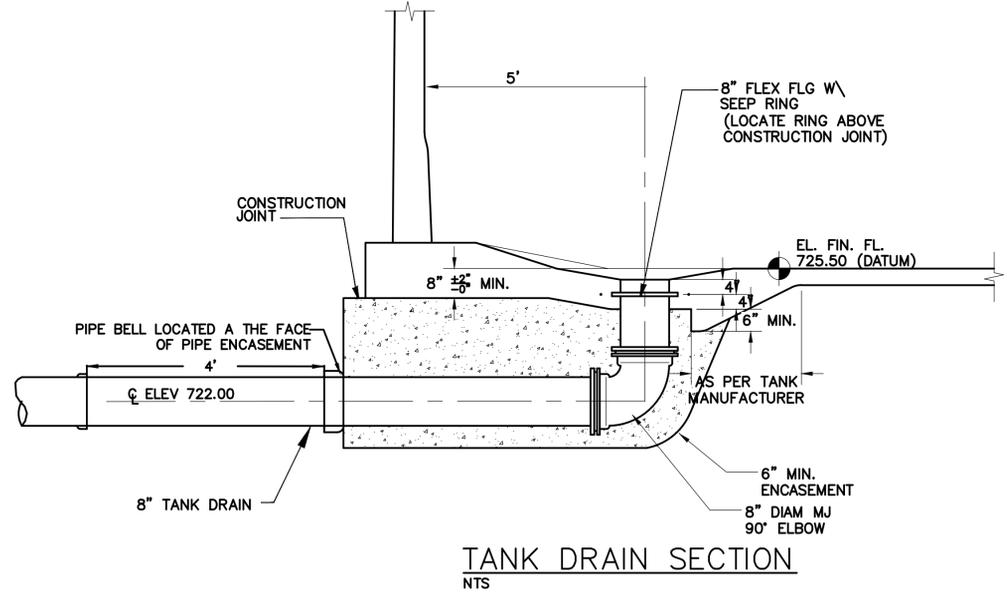
TANK BAFFLE DETAILS

DESIGNED BY: DAVID CERVONE
DRAWN BY: JULIO TRINIDAD
CHECKED BY: DAVID CERVONE
DATE: 11/18/2016
FILE NAME: SITEPLAN

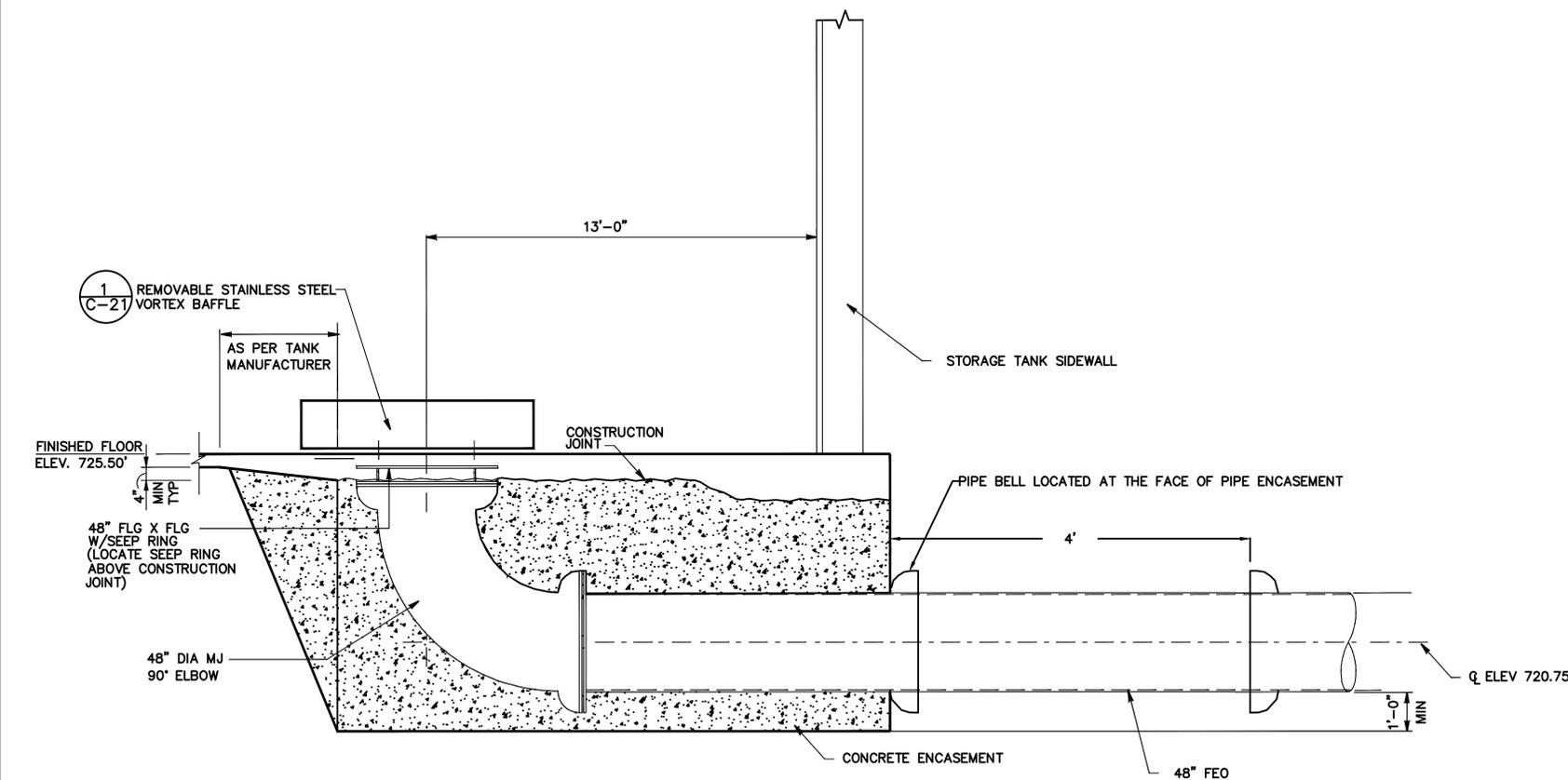
SHEET
C-16



INLET PIPE SECTION
NTS



TANK DRAIN SECTION
NTS



OUTLET PIPE SECTION
NTS

GENERAL NOTES FOR THIS SHEET:

- COORDINATE PIPE CONNECTIONS SHOWN ON THIS SHEET WITH TANK MANUFACTURER. CONFIRM ALL DIMENSIONS SHOWN WITH TANK MANUFACTURER AND NOTIFY ENGINEER IF ANY CONFLICTS EXIST PRIOR TO CONSTRUCTION.
- REFER TO TANK MANUFACTURER DESIGN FOR DESIGN OF PIPE SECTIONS THROUGH TANK FOR ADDITIONAL INFORMATION.

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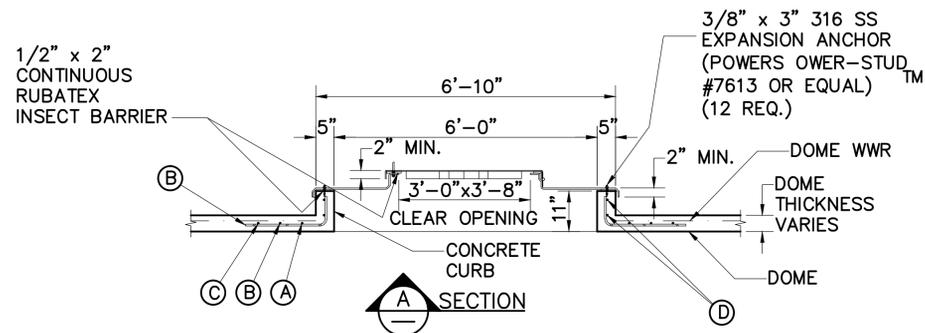
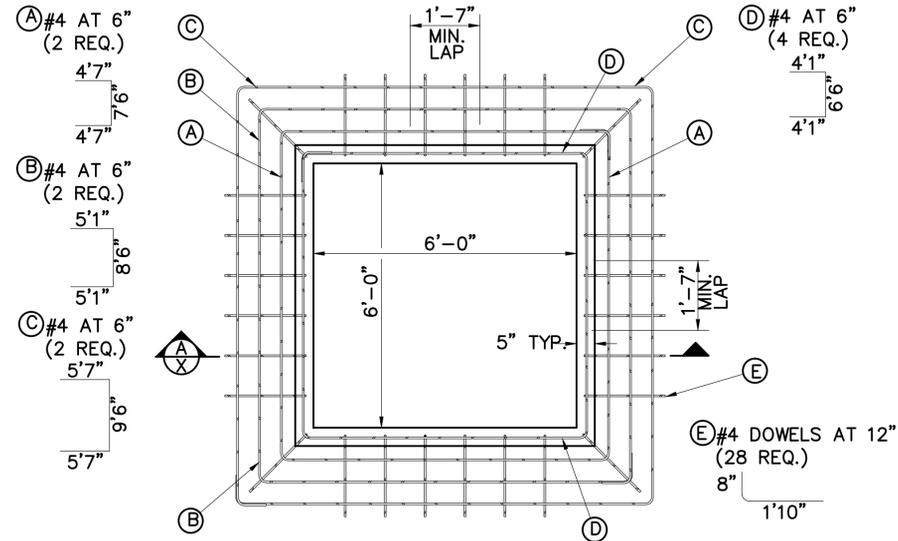
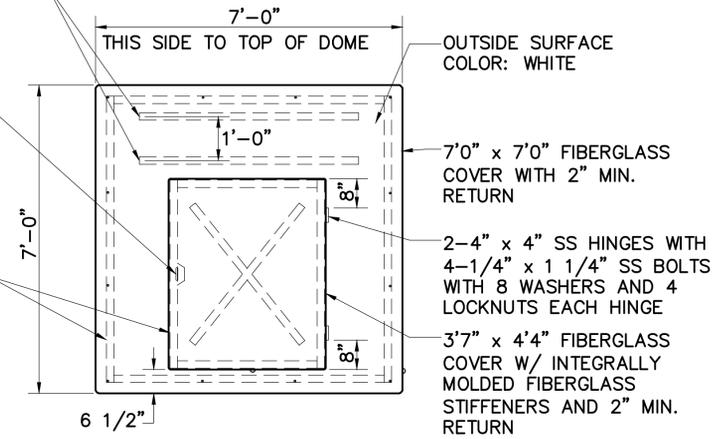
TANK DETAILS

DESIGNED BY: DAVID CERVONE
DRAWN BY: JULIO TRINIDAD
CHECKED BY: DAVID CERVONE
DATE: 11/18/2016
FILE NAME: SITEPLAN

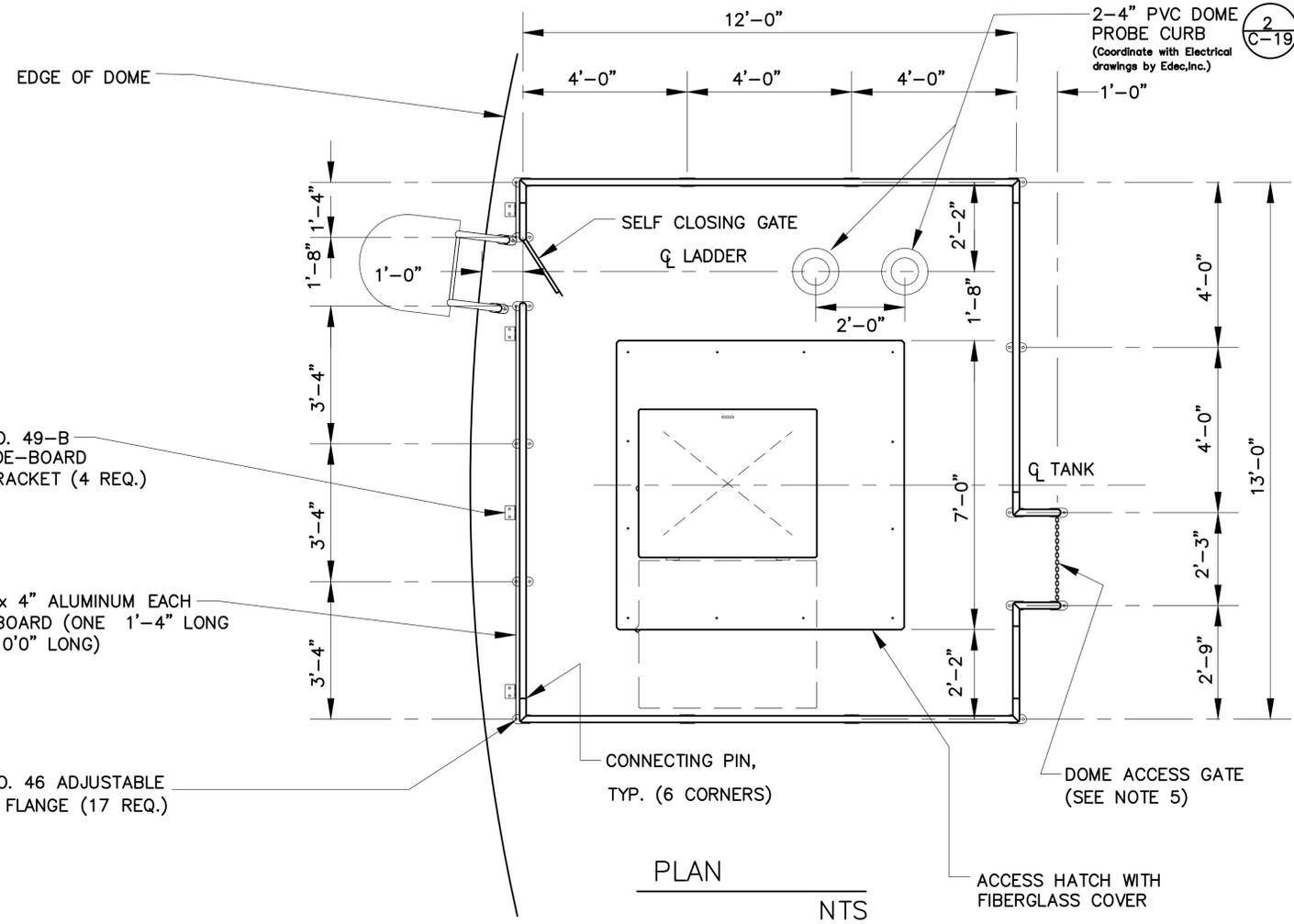
2" x 2" x 1/4" THICK
x 5' LONG SQUARE
FIBERGLASS STIFFENERS

3/8" DIAMETER
SS LOCKABLE
HASP PROTRUDES
3" ABOVE HATCH

1/2" x 2"
CONTINUOUS
RUBATEX
INSECT BARRIER



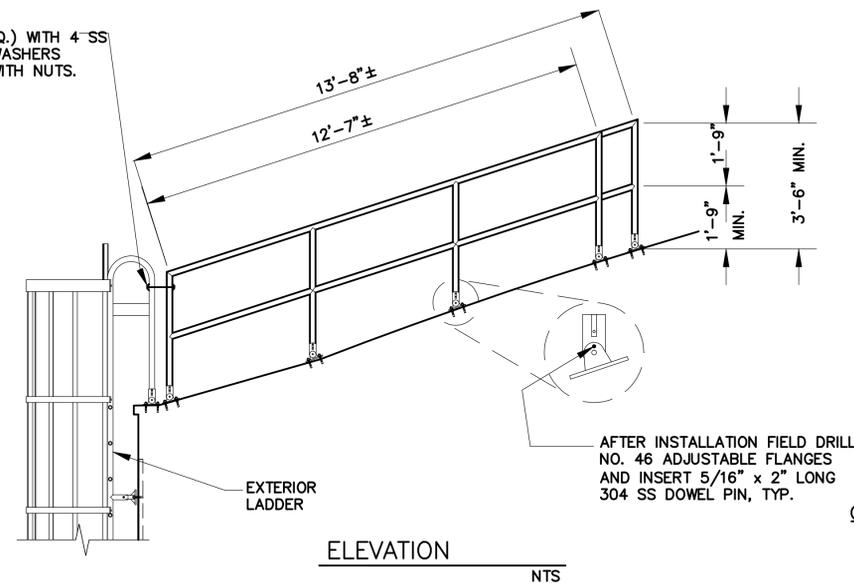
1 ACCESS HATCH WITH FIBERGLASS COVER
C-13 NTS



1/4" x 4" ALUMINUM EACH
TOE-BOARD (ONE 1'-4" LONG
AND 10'0" LONG)

NO. 46 ADJUSTABLE
FLANGE (17 REQ.)

3/8" x 10" SS ALL THREAD (2 REQ.) WITH 4 SS
HEX HEAD NUTS AND 4 SS FLAT WASHERS
EACH. GRIND ALL THREAD FLUSH WITH NUTS.



2 ALUMINUM HANDRAIL
C-13 NTS

- NOTES:
1. USE HOLLANDER HIGH TENSILE ALUMINUM ALLOY FITTINGS.
 2. USE 1 1/2" SCHEDULE 40/6061-T6 ALUMINUM PIPE.
 3. TOEBOARDS TO BE 6061-T6 ALUMINUM.
 4. USE 1/2" x 2 3/4" 316 SS EXPANSION ANCHORS (POWERS TM #7620 POWER-STUD OR EQUAL)(42 REQ.).
 5. 316 SS CHAIN WITH CLASS "D" HOOK AT ONE END x 2'6" LONG.
 6. ALL ALUMINUM IN DIRECT CONTACT WITH CONCRETE SHALL BE COATED WITH A MINIMUM 8.0 DRY MIL THICKNESS SERIES 46-465 H.B. TNEMECOL OR EQUAL.

GENERAL NOTES FOR THIS SHEET:

1. PRESTRESSED CONCRETE TANK MANUFACTURER SHALL PROVIDE DETAILED DESIGN OF ACCESSORY TANK EQUIPMENT (SHOWN ON THIS DRAWING) INCLUDING ALL SUPPORT AND CONNECTIONS WHICH WILL SUPERCEDE DETAILS SHOWN ON THIS DRAWING

1329 PORTMAN DRIVE
SUITE H
CONYERS, GEORGIA 30004
PHONE (770)276-7482
FAX (770)918-6629

ROCKDALE WATER RESOURCES

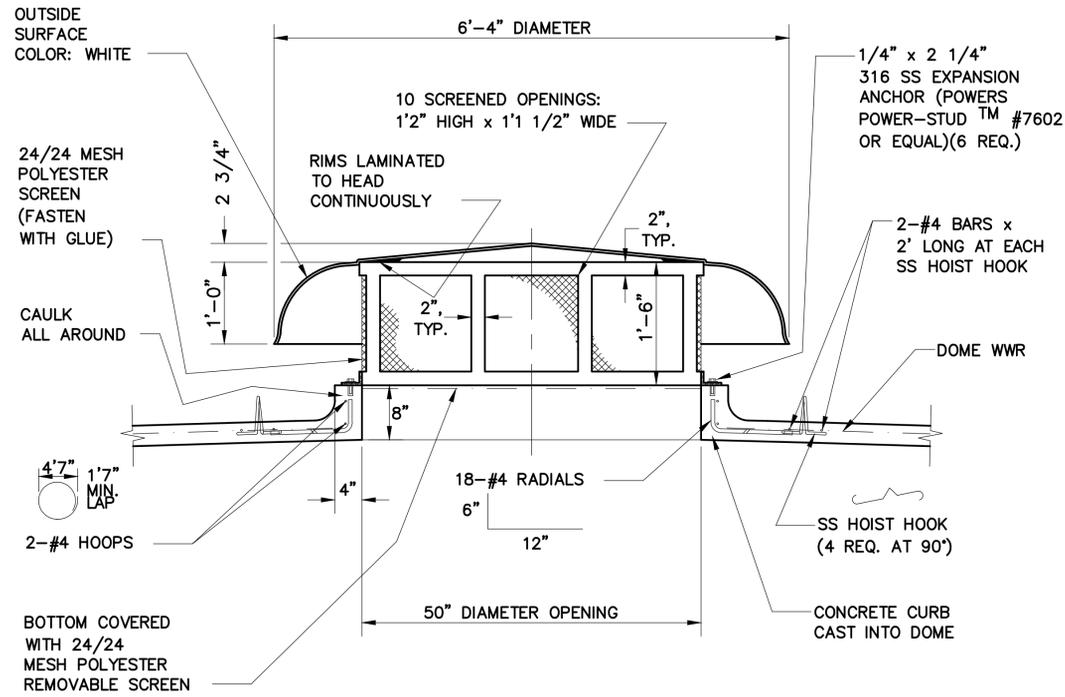
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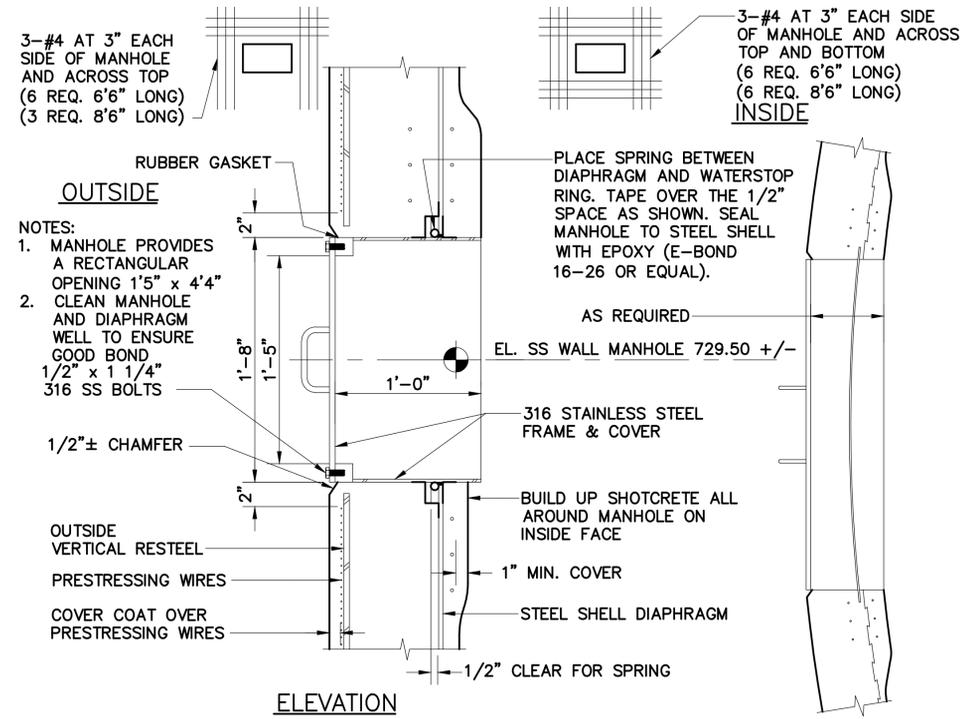
TANK DETAILS

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DRAWN BY: JULIO TRINIDAD
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DATE: 11/18/2016
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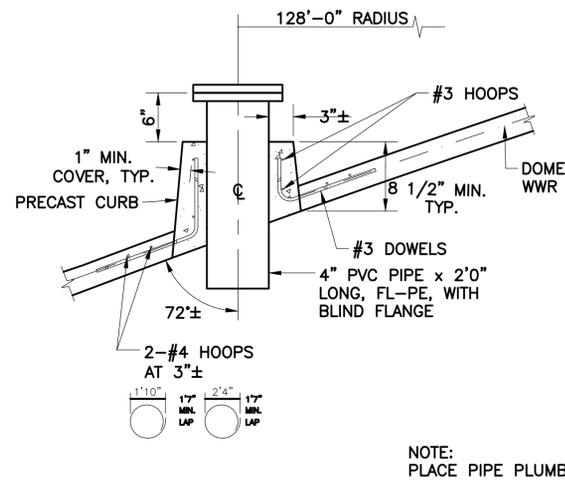
SHEET
C-18



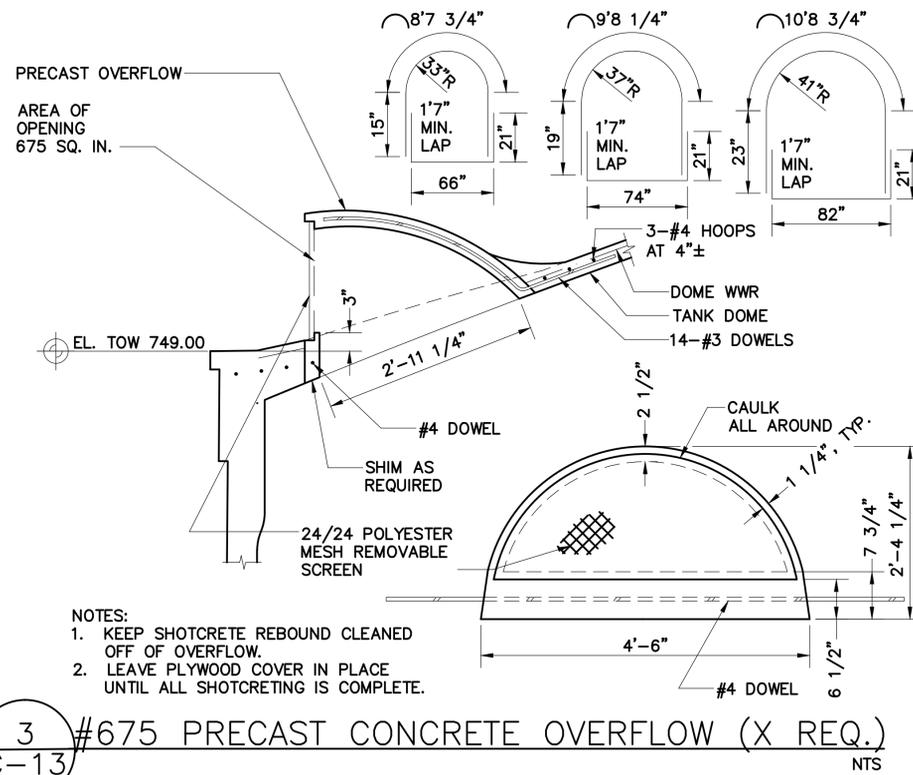
1 50" FIBERGLASS VENTILATOR
C-13 NTS



4 STAINLESS STEEL WALL MANHOLE
C-13 NTS



2 4" PVC DOME PROBE CURB
C-13 NTS



3 #675 PRECAST CONCRETE OVERFLOW (X REQ.)
C-13 NTS

GENERAL NOTES FOR THIS SHEET:

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FAX (770)918-6639

ROCKDALE WATER RESOURCES

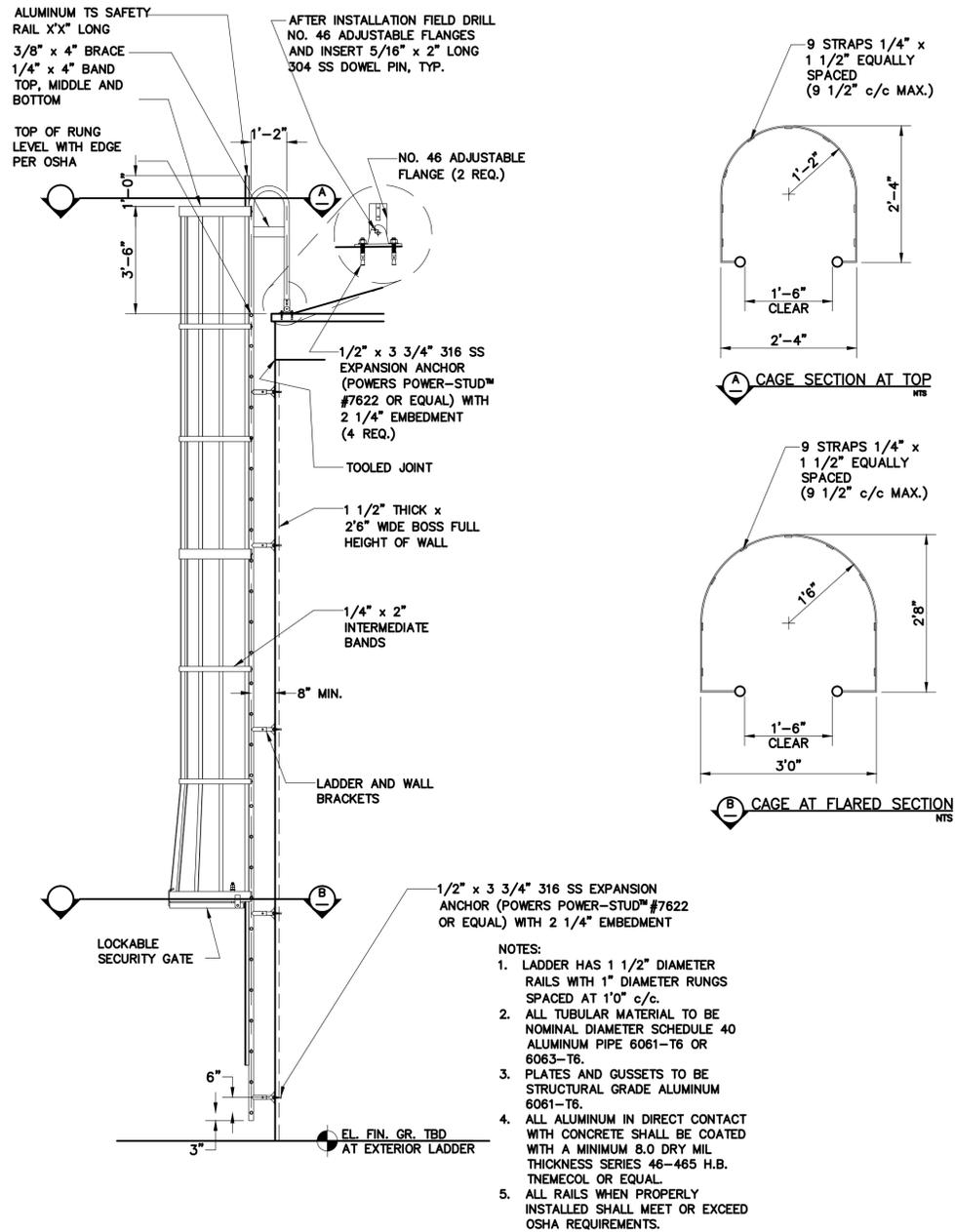
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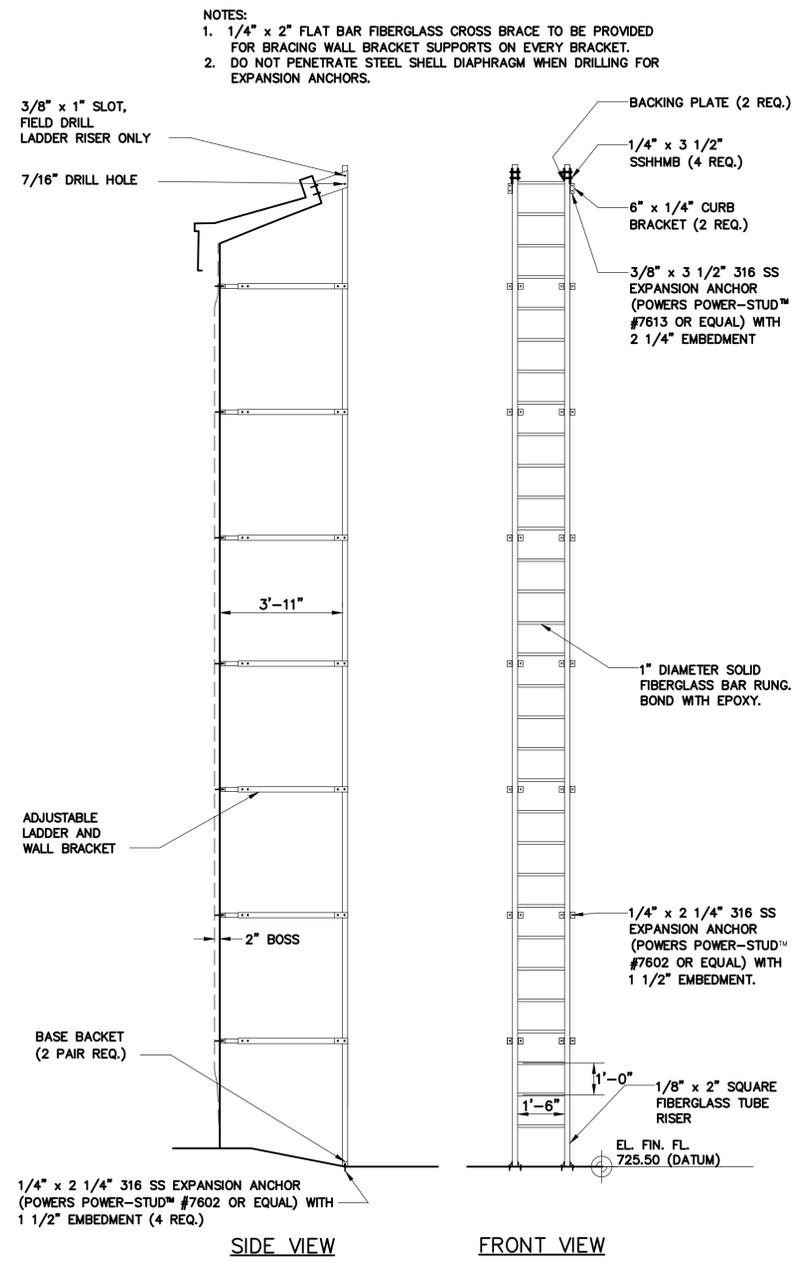
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SHEET
C-19



1 EXTERIOR ALUMINUM LADDER WITH TS SAFETY RAIL, SAFETY CAGE AND LOCKABLE SECURITY GATE
C-13 NTS

- NOTES:
- LADDER HAS 1 1/2" DIAMETER RAILS WITH 1" DIAMETER RUNGS SPACED AT 1'0" c/c.
 - ALL TUBULAR MATERIAL TO BE NOMINAL DIAMETER SCHEDULE 40 ALUMINUM PIPE 6061-T6 OR 6063-T6.
 - PLATES AND GUSSETS TO BE STRUCTURAL GRADE ALUMINUM 6061-T6.
 - ALL ALUMINUM IN DIRECT CONTACT WITH CONCRETE SHALL BE COATED WITH A MINIMUM 8.0 DRY MIL THICKNESS SERIES 46-465 H.B. TNEMECOL OR EQUAL.
 - ALL RAILS WHEN PROPERLY INSTALLED SHALL MEET OR EXCEED OSHA REQUIREMENTS.



2 INTERIOR FIBERGLASS LADDER WITH TS SAFETY RAIL
C-13 NTS

- NOTES:
- 1/4" x 2" FLAT BAR FIBERGLASS CROSS BRACE TO BE PROVIDED FOR BRACING WALL BRACKET SUPPORTS ON EVERY BRACKET.
 - DO NOT PENETRATE STEEL SHELL DIAPHRAGM WHEN DRILLING FOR EXPANSION ANCHORS.

- GENERAL NOTES FOR THIS SHEET:
- PRESTRESSED CONCRETE TANK MANUFACTURER SHALL PROVIDE DETAILED DESIGN OF ACCESSORY TANK EQUIPMENT (SHOWN ON THIS DRAWING) INCLUDING ALL SUPPORT AND CONNECTIONS WHICH WILL SUPERCEDE DETAILS SHOWN ON THIS DRAWING. (I.E. ALL DIMENSIONS, ELEVATIONS AND CALL OUTS SHOWN MUST BE CONFIRMED WITH TANK MANUFACTURER).

1320 PORTMAN DRIVE
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FAX (770)918-6629

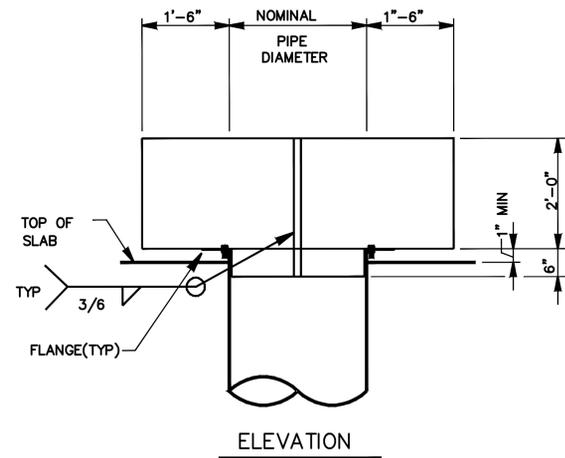
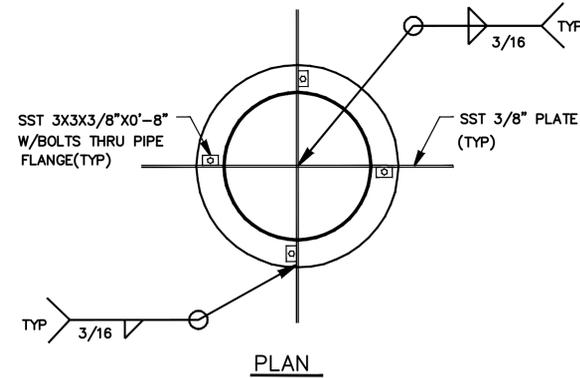


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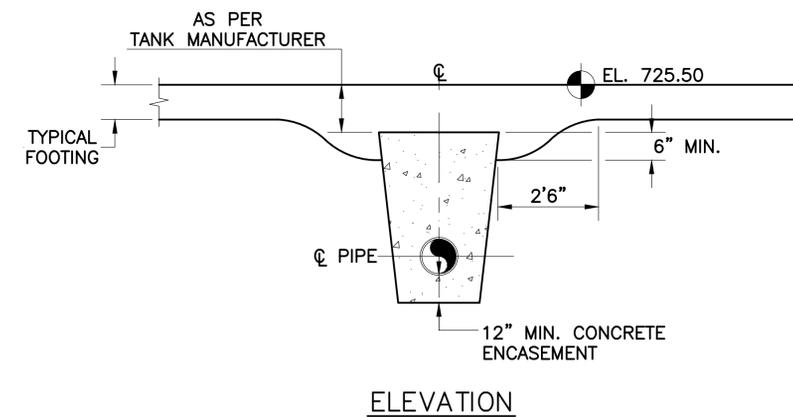
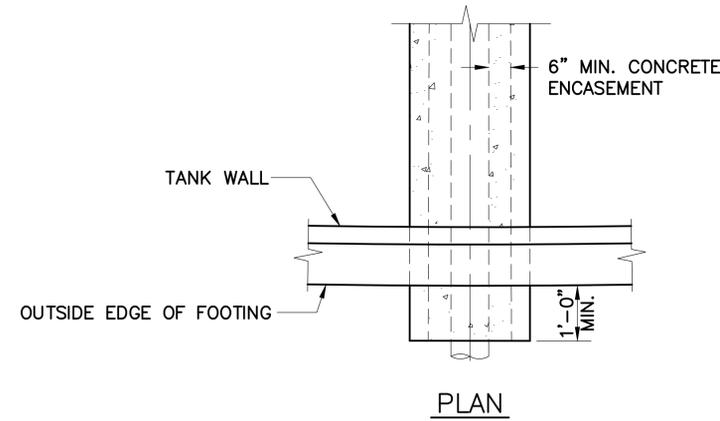
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SHEET
C-20



1
C-17 VORTEX BAFFLE DETAIL
NTS



TYPICAL PIPE ENCASEMENT
NTS

GENERAL NOTES FOR THIS SHEET:

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ROCKDALE WATER RESOURCES

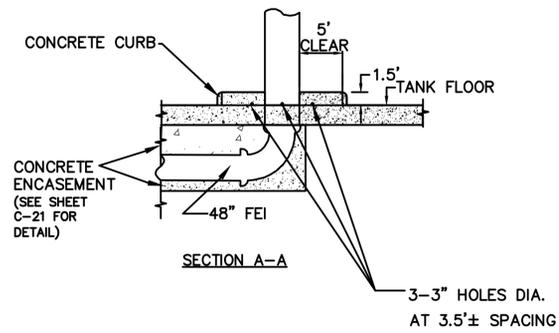
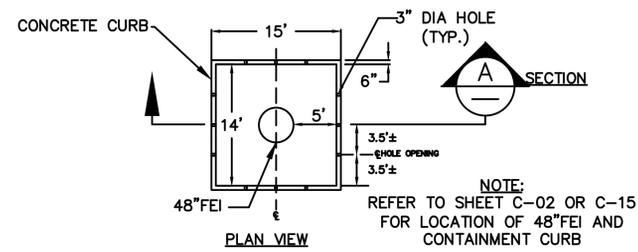
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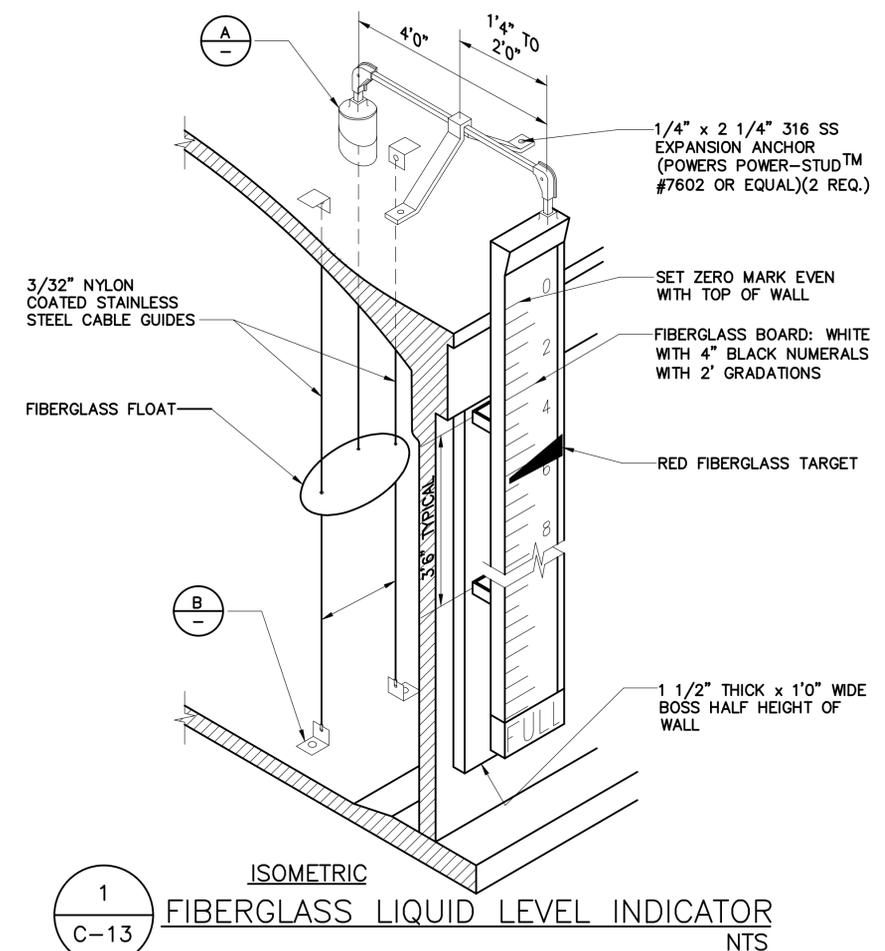
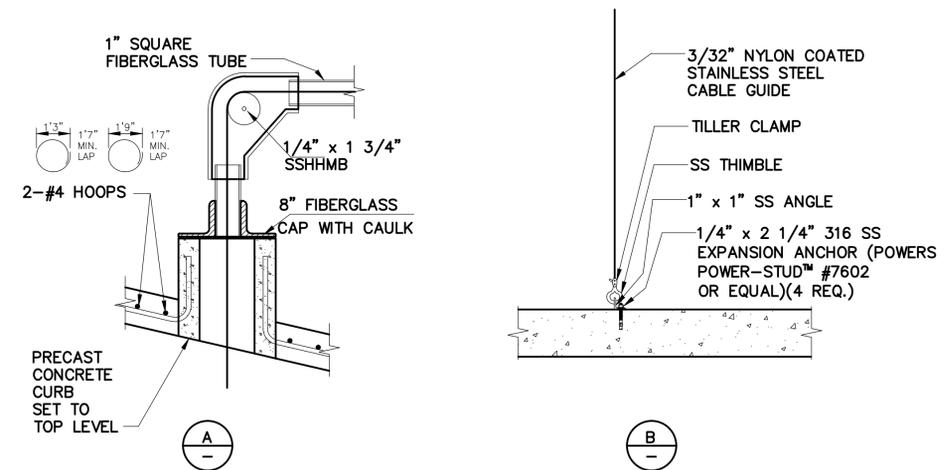
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SHEET
C-21



2
C-15 CONTAINMENT CURB
NTS



1
C-13 ISOMETRIC
FIBERGLASS LIQUID LEVEL INDICATOR
NTS

GENERAL NOTES FOR THIS SHEET:

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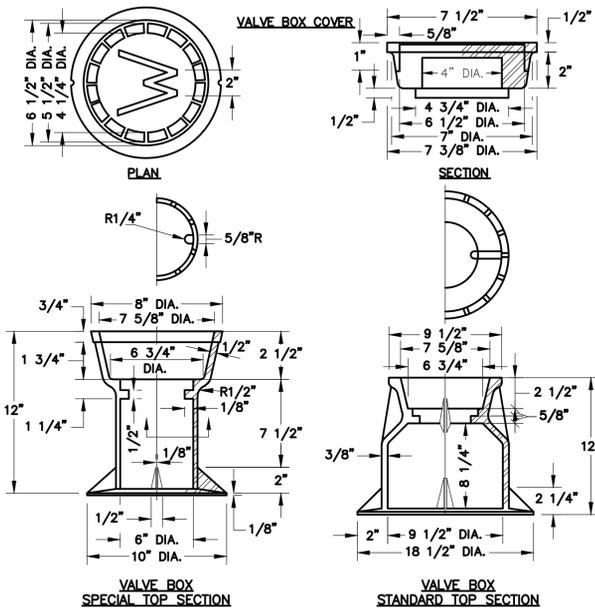


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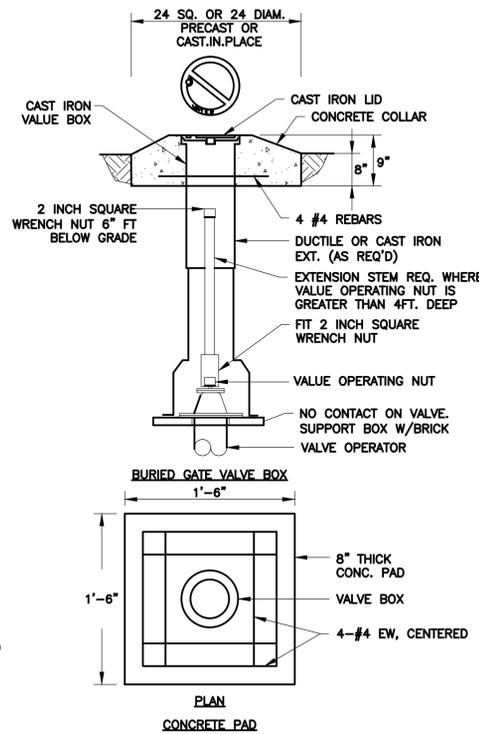
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SHEET
C-22

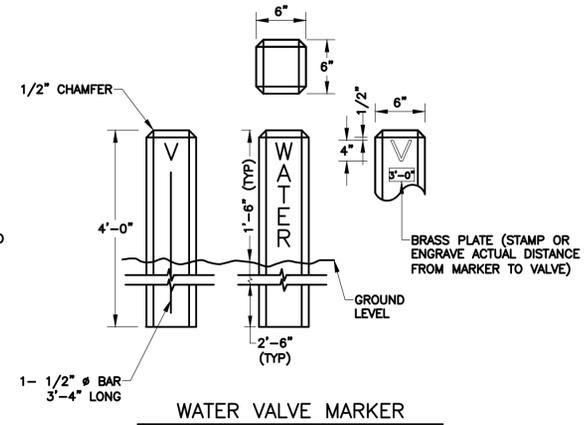


- NOTES:**
- UNLESS NOTED OTHERWISE, CAST IRON SHALL CONFORM TO A.S.T.M. SPECIFICATIONS A48 LATEST REVISION FOR CLASS 20 GREY IRON CASTINGS.
 - CASTING SHALL BE TRUE AND FREE OF HOLES. THEY SHALL BE CLEANED ACCORDING TO GOOD FOUNDRY PRACTICE, CHIPPED AND GROUND AS NEEDED TO REMOVE FINES AND ROUGH PLACES.
 - FINISHED CASTING SHALL BE COATED INSIDE AND OUTSIDE WITH COAL TAR PITCH VARNISH AS INDICATED IN A.W.W.A. SPECIFICATIONS C110 LATEST REVISION. COATING MAY BE APPLIED COLD AND SHALL THOROUGHLY COVER ALL METAL SURFACES. FINISHED COATING SHALL BE SMOOTH, GLOSSY NOT BRITTLE WHEN COLD, NOT STICKY WHEN EXPOSED TO THE SUN, AND SHALL ADHERE TO THE METAL AT ALL TEMPERATURES.
 - WHEN COATING IS COMPLETE, LID SHALL FIT SNUGLY WITHOUT ROCKING.

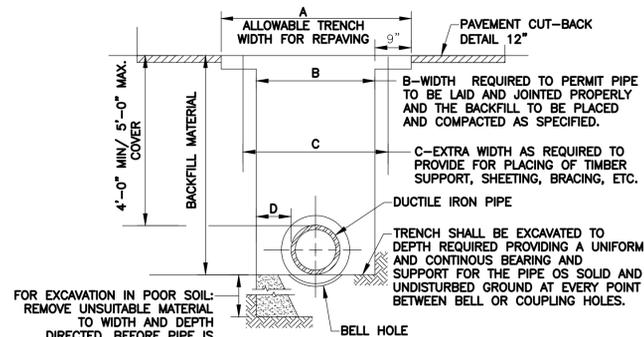
TYPICAL 4"-12" VALVE BOX ASSEMBLIES



TYPICAL BURIED GATE VALVE BOX AND CONCRETE PAD



WATER VALVE MARKER

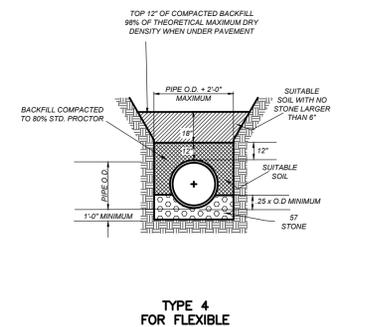


FOR EXCAVATION IN POOR SOIL: REMOVE UNSUITABLE MATERIAL TO WIDTH AND DEPTH DIRECTED. BEFORE PIPE IS LAID, THE SUBGRADE SHALL BE BACKFILLED WITH AN APPROVED MATERIAL IN 3" LAYERS, EACH LAYER SHALL BE THOROUGHLY TAMPED TO 95% COMPACTION.

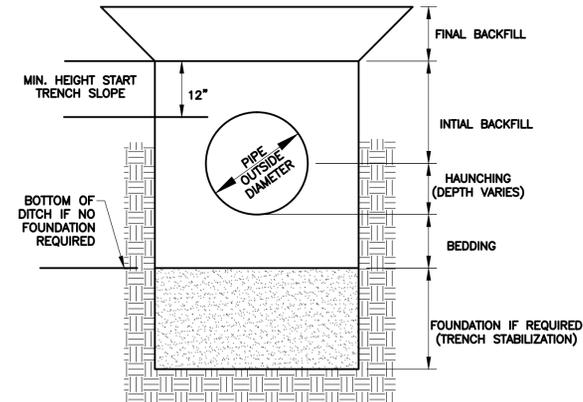
| PIPE SIZE (NOMINAL) | A (MAXIMUM EARTH/ROCK) | B (MAXIMUM EARTH/ROCK) | C | D |
|---------------------|------------------------|------------------------|----------|--------|
| 6" | 3.50'/4.00' | 2.00'/2.50' | AS REQ'D | 9"/12" |
| 8" | 3.50'/4.00' | 2.00'/2.50' | " | 9"/12" |
| 12" | 4.00'/4.50' | 2.50'/3.00' | " | 9"/12" |
| 16" | 4.50'/5.00' | 3.00'/3.50' | " | 9"/12" |
| 20" | 4.50'/5.00' | 3.00'/3.50' | " | 9"/12" |
| 24" | 5.00'/5.50' | 3.50'/4.00' | " | 9"/12" |
| 30" | 5.50'/6.00' | 4.00'/4.50' | " | 9"/12" |
| 36" | 6.00'/6.50' | 4.50'/5.00' | " | 9"/12" |
| 48" | 7.00'/7.50' | 5.50'/6.00' | " | 9"/12" |

- NOTES:**
- COMPACTION: BACKFILLS SHALL BE BUILT UP IN LAYERS AND EACH LAYER SHALL BE THOROUGHLY COMPACTED BEFORE BEGINNING ANOTHER LAYER. LAYERS SHALL BE NO MORE THAN 12-INCHES IN DEPTH. PUDDLING WILL NOT BE PERMITTED, NOR WILL FROZEN OR WET MATERIAL BE PLACED IN TRENCHES.
 - COMPACTION STANDARDS: ALL BACKFILL MATERIALS USED SHALL CONTAIN A SUFFICIENT AMOUNT OF MOISTURE FOR PROPER COMPACTION, AND THESE MATERIALS SHALL BE COMPACTED AT NOT LESS THAN 98% OF THEIR OPTIMUM COMPACTION FOR ANY SPECIFIC SOIL CLASSIFICATION, AS DETERMINED BY THE STANDARD PROCTOR TEST, ASTM D698.
 - COMPACTION TEST: COMPACTION TEST WILL BE REQUIRED IN EXISTING OR PROPOSED STREETS, SIDEWALKS, DRIVES AND OTHER EXISTING OR PROPOSED PAVED AREAS AT VARYING DEPTHS AND AT INTERVALS AS DETERMINED BY THE ENGINEER WITH A MINIMUM OF ONE TEST ON EACH JOB, AND A MAXIMUM OF ONE REQUIRED TEST FOR 400 FEET OF LESS OF WATER MAIN CONSTRUCTION, UNLESS SOIL CONDITIONS OR CONSTRUCTION PRACTICES, IN THE OPINION OF THE ENGINEER, WARRANT THE NEED FOR ADDITIONAL TESTS.

TYPICAL WATERLINE TRENCH SECTION



TYPICAL WATER MAIN & TANK DRAIN BEDDING & HAUNCHING



TRENCH TERMINOLOGY

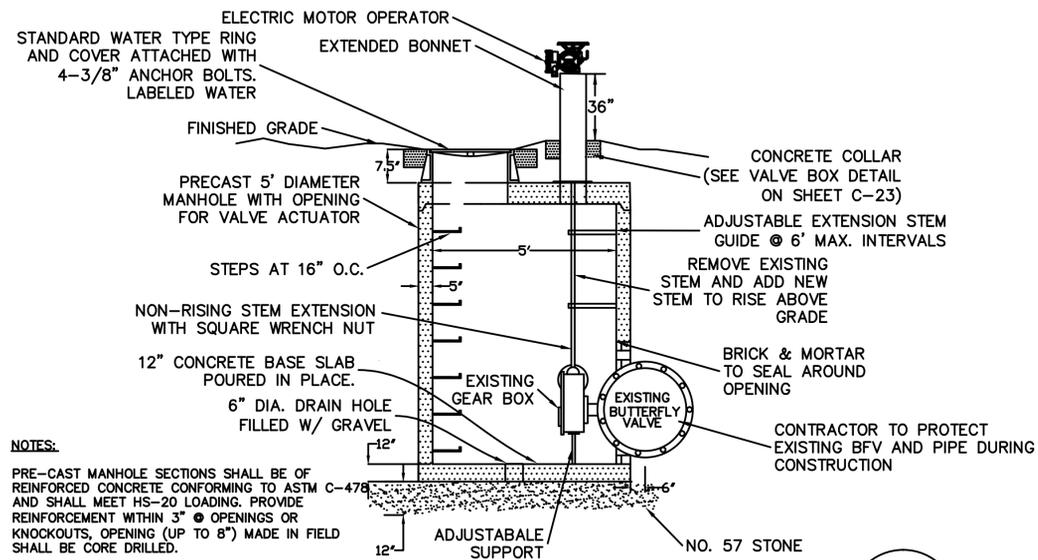
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SUITE II
CONYERS, GEORGIA 30094
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WATER DETAILS

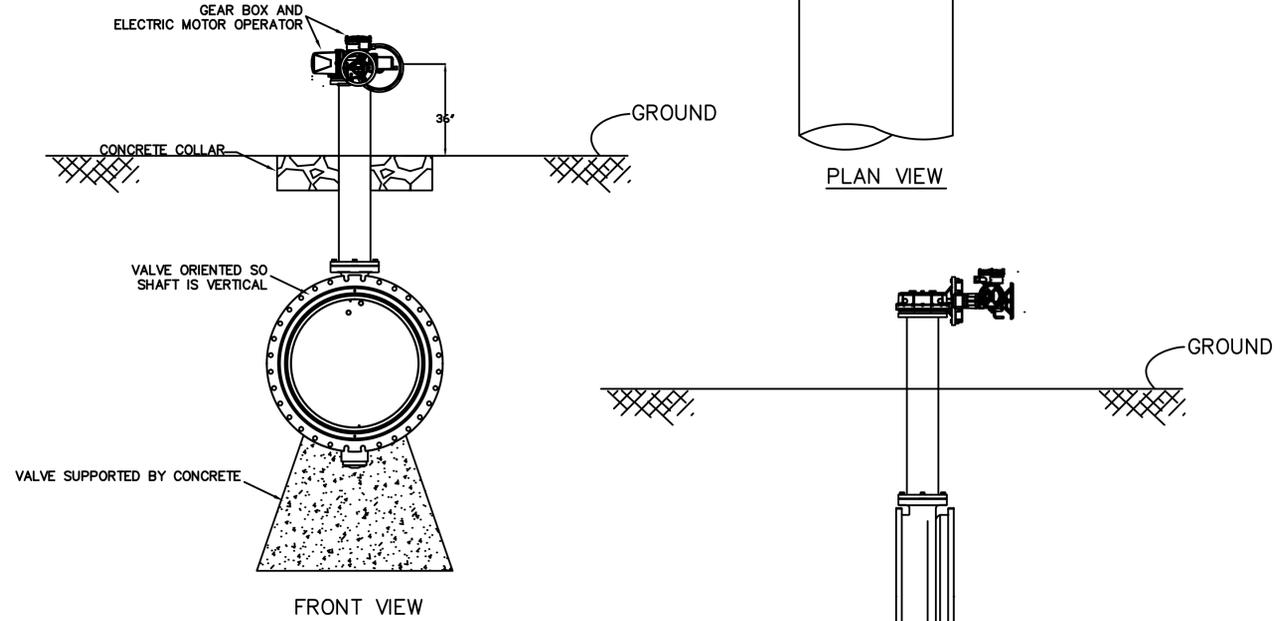
DESIGNED BY: DAVID CERVONE
DRAWN BY: JULIO TRINIDAD
CHECKED BY: DAVID CERVONE
DATE: 11/18/2016
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NOTES:
 PRE-CAST MANHOLE SECTIONS SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478 AND SHALL MEET HS-20 LOADING. PROVIDE REINFORCEMENT WITHIN 3" @ OPENINGS OR KNOCKOUTS, OPENING (UP TO 8") MADE IN FIELD SHALL BE CORE DRILLED.

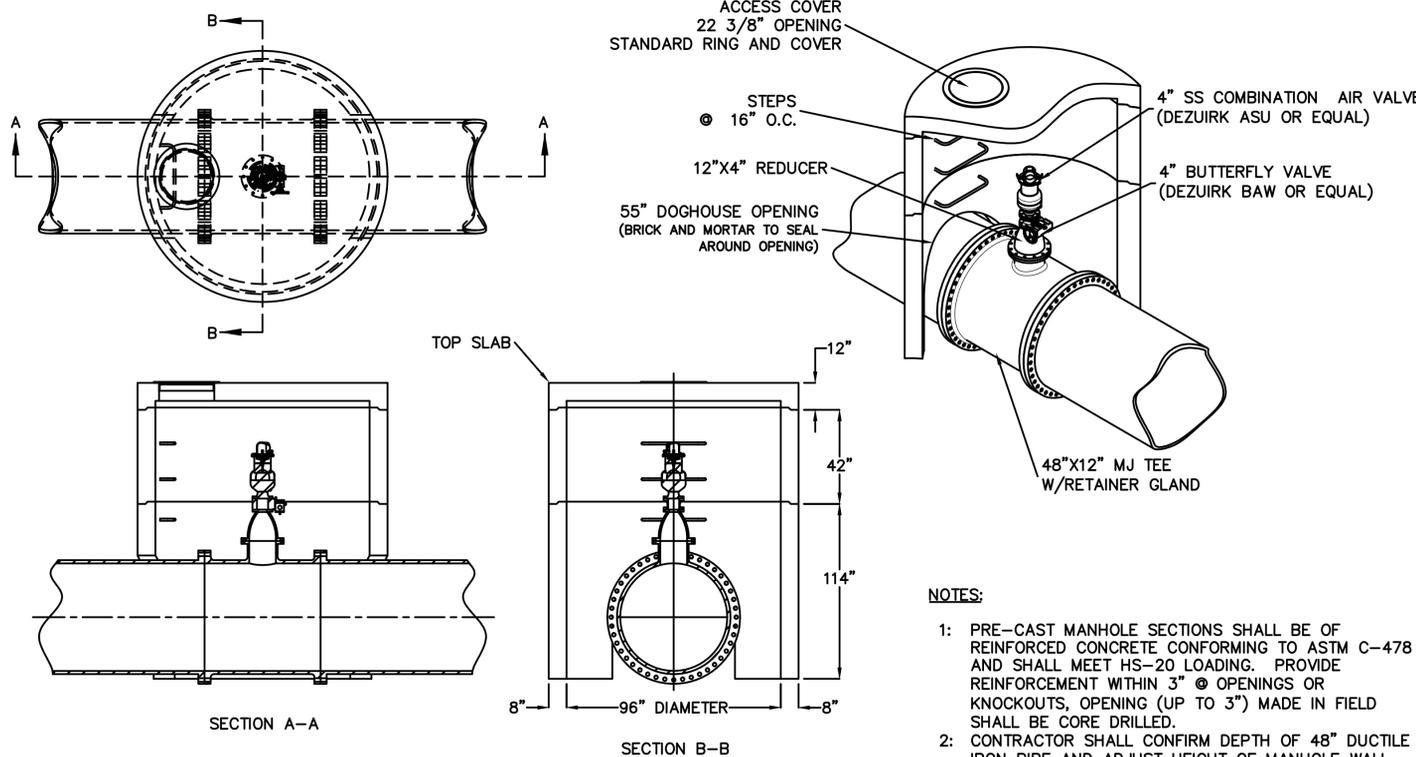
EXISTING BUTTERFLY VALVE WITH 5' DIA. MANHOLE
 NTS

1
 C-02



BURIED BUTTERFLY VALVE
 NTS

2
 C-02



NOTES:
 1: PRE-CAST MANHOLE SECTIONS SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478 AND SHALL MEET HS-20 LOADING. PROVIDE REINFORCEMENT WITHIN 3" @ OPENINGS OR KNOCKOUTS, OPENING (UP TO 3") MADE IN FIELD SHALL BE CORE DRILLED.
 2: CONTRACTOR SHALL CONFIRM DEPTH OF 48" DUCTILE IRON PIPE AND ADJUST HEIGHT OF MANHOLE WALL SECTIONS AS NEEDED. NOTIFY ENGINEER OF FIELD MEASUREMENTS.

4 INCH COMBINATION AIR VALVE AND MANHOLE

3
 C-02

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ROCKDALE WATER RESOURCES

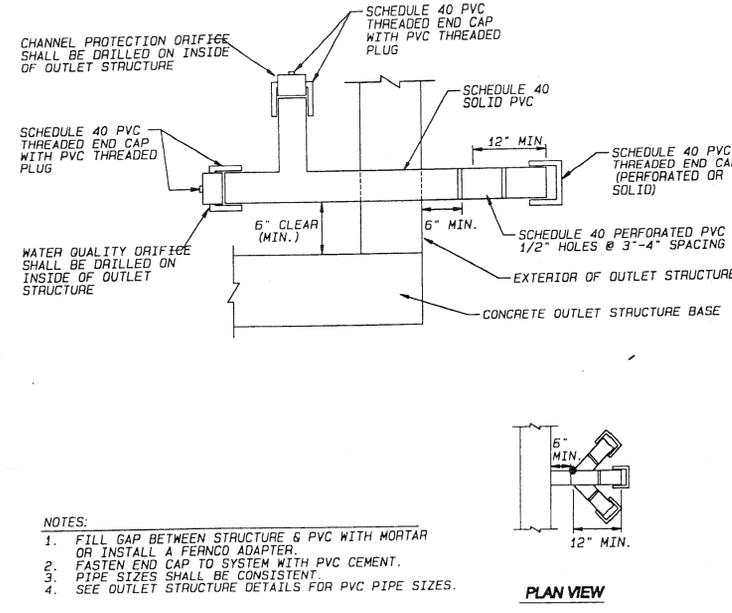
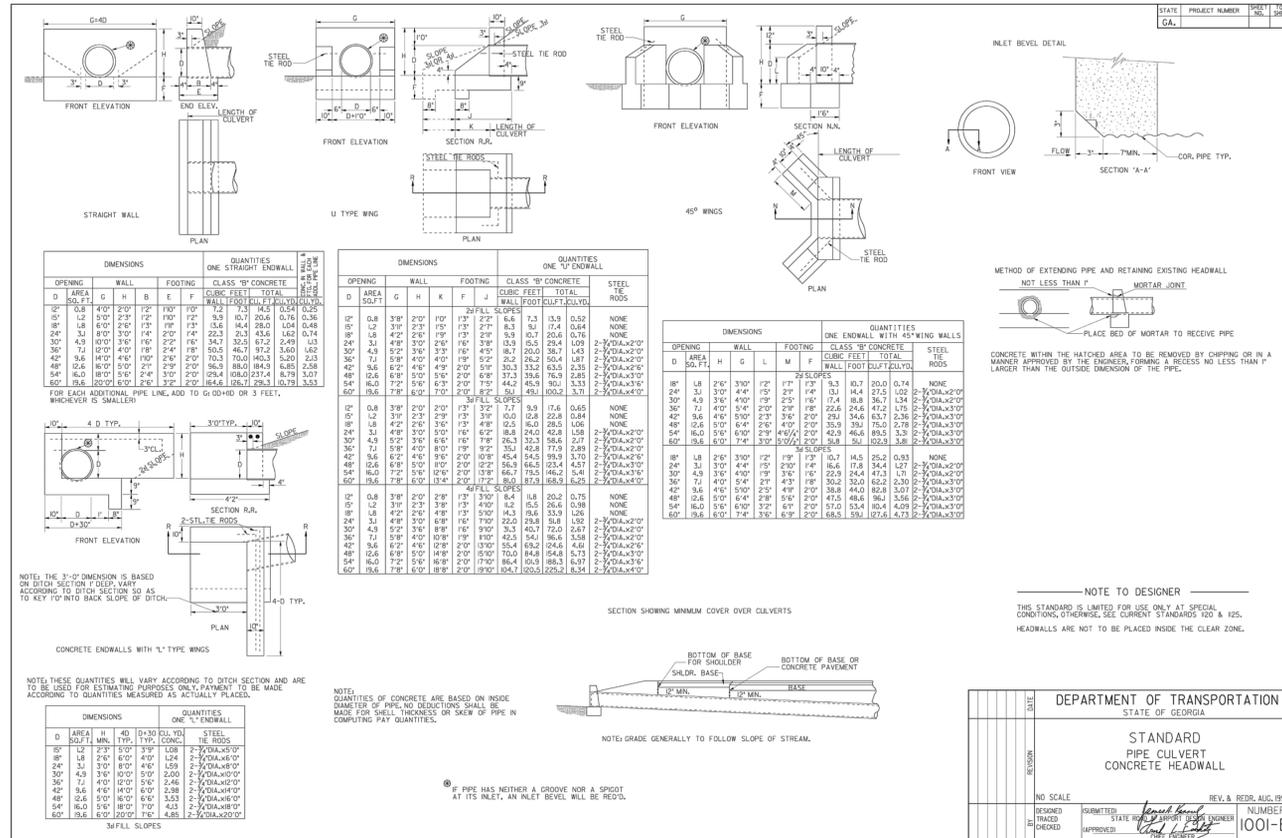
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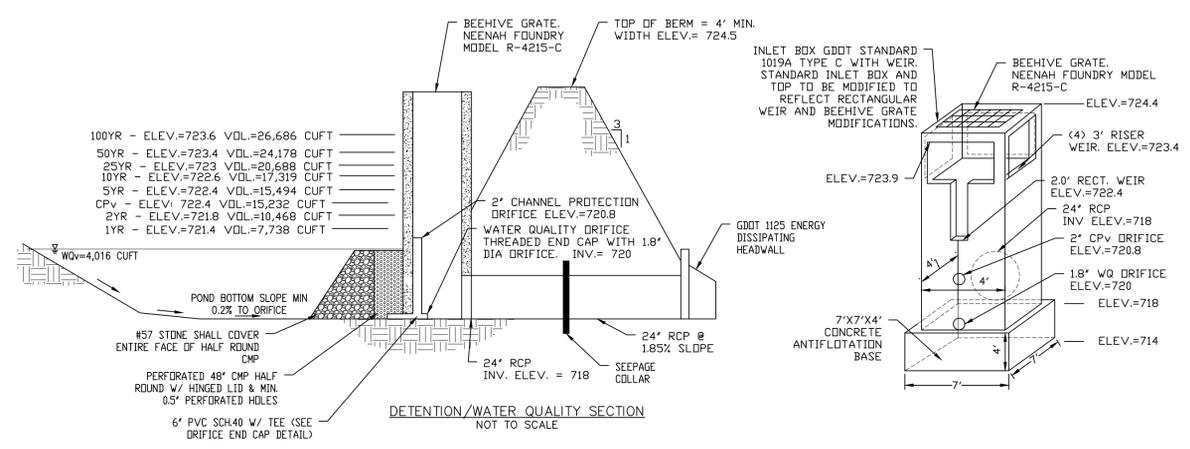
WATER DETAILS

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SHEET
C-24



ORIFICE END CAP DETAIL



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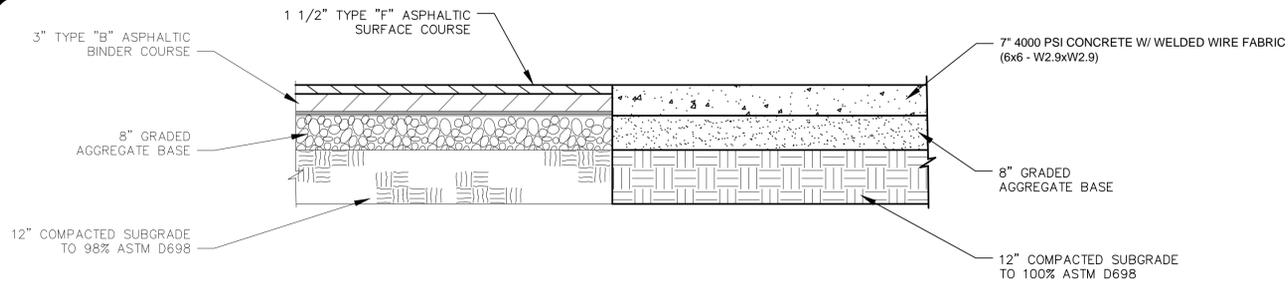
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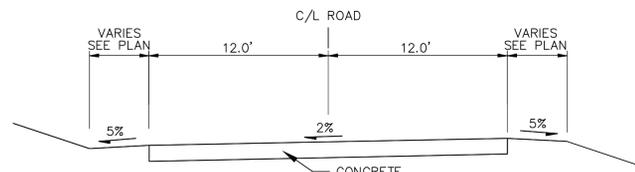
CIVIL DETAILS

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DATE: 11/18/2016

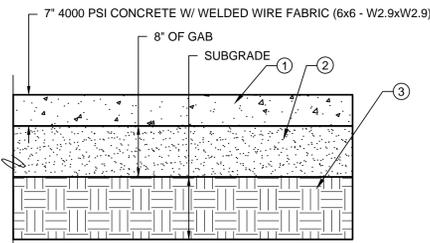
SHEET
C-25



TIE-IN EXISTING PAVEMENT DETAIL
NTS



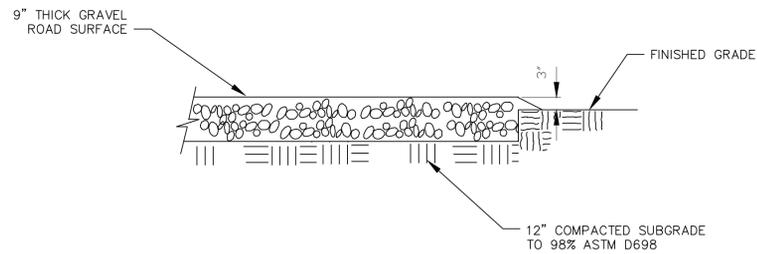
TYPICAL CONCRETE ROAD SECTION
NTS



- ① 7" OF 4000 PSI CONCRETE W/ WELDED WIRE FABRIC (6x6 - W2.9xW2.9)
- ② 8" OF GRADED AGGREGATE BASE (GAB) COMPACTED TO 100% OF MAXIMUM DRY DENSITY (MODIFIED PROCTOR - ASTM D1557C)
- ③ 12" OF 100% COMPACTED SOIL SUBGRADE (STANDARD PROCTOR ASTM D698)

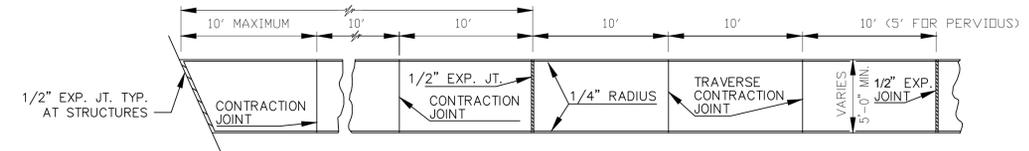
- NOTES:
1. PAVEMENTS SHOULD BE CONSTRUCTED IN ACCORDANCE WITH ALL APPLICABLE SPECIFICATIONS OF GDOT.
 2. SUBGRADE PREPARATION SHALL BE PERFORMED IN ACCORDANCE WITH RECOMMENDATIONS PROVIDED BY THE GEOTECHNICAL REPORT FROM MATRIX ENGINEERING GROUP DATED NOVEMBER 2016.
 3. PAVEMENTS SUB-BASE (GRADED AGGREGATE BASE) SHOULD CONFORM TO SECTION 815 OF THE STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
 4. PROOFROLLING OF THE SUB-BASE SHOULD BE PERFORMED PRIOR TO PAVING IN ORDER TO DETECT ANY SOFT SPOTS OR EXCESSIVE RUTTING WHICH MAY REQUIRE STABILIZATION.

CONCRETE PAVEMENT
NTS

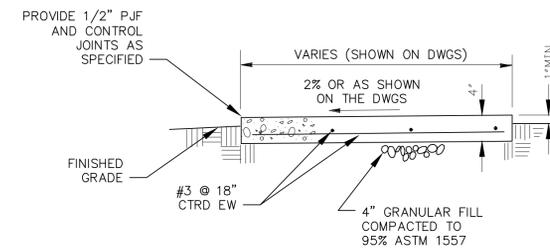


NOTE: GRAVEL AS SPECIFIED IN SECTION 02200.

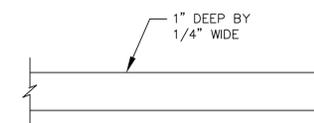
GRAVEL ROAD SURFACE
NTS



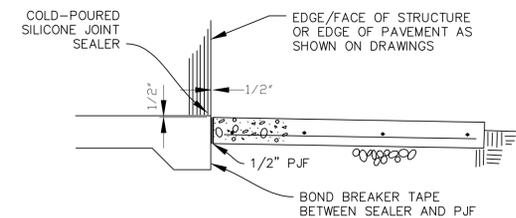
PLAN VIEW



TYPICAL SECTION



CONTROL JOINT
5' MAXIMUM SPACING



END CONDITION

TYPICAL SIDEWALK DETAIL
NTS

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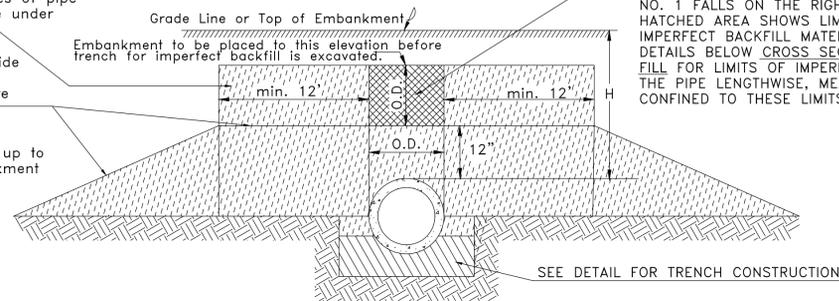
NORMAL BACKFILL

Backfill, as shown by the broken line sections, shall consist of placing compactable soil in 6" (Loose) layers and compacting each layer (according to Georgia Standard Specifications) on both sides of pipe for its full length. Measurement and payment will be made under Roadway Excavation items for formation of embankments.

Normal embankment shall be placed a minimum of 12' wide on each side of the pipe and at least the minimum cover over the pipe and compacted to the required density before equipment is allowed to cross.

After backfill has been compacted, the balance of the fill up to grade line shall be constructed in accordance with embankment specifications.

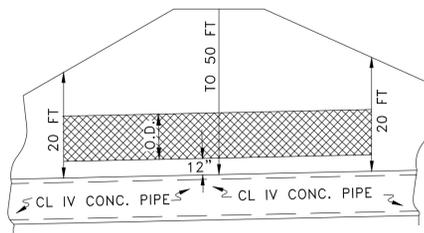
LONGITUDINAL SECTION OF IMPERFECT TRENCH BACKFILL AND BACKFILL METHODS



IMPERFECT BACKFILL

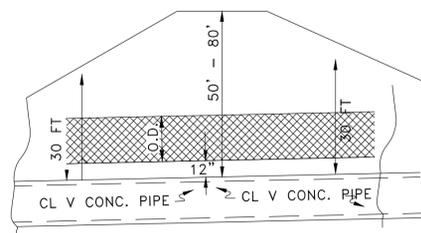
IMPERFECT BACKFILL WILL BE USED WITH CONCRETE PIPE IF AN EXTRAPOLATION OF FILL HEIGHT AND PIPE DIAMETER IN TABLE NO. 1 FALLS ON THE RIGHT SIDE OF THE HEAVY LINE, CROSS HATCHED AREA SHOWS LIMITS OF STRUCTURE EXCAVATION AND IMPERFECT BACKFILL MATERIAL TYPE III IN THIS VIEW. SEE DETAILS BELOW CROSS SECTIONS OF IMPERFECT TRENCH BACKFILL FOR LIMITS OF IMPERFECT BACKFILL AS MEASURED OVER THE PIPE LENGTHWISE, MEASUREMENT AND PAYMENT WILL BE CONFINED TO THESE LIMITS.

CROSS HATCHED AREAS SHOW LIMITS OF CONSTRUCTION & MEASUREMENT FOR STRUCTURE EXCAVATION & IMPERFECT TRENCH BACKFILL MATERIAL, TYPE III



(FOR CONDITIONS BETWEEN HEAVY LINE & DOUBLE LINE, TABLE NO.1)

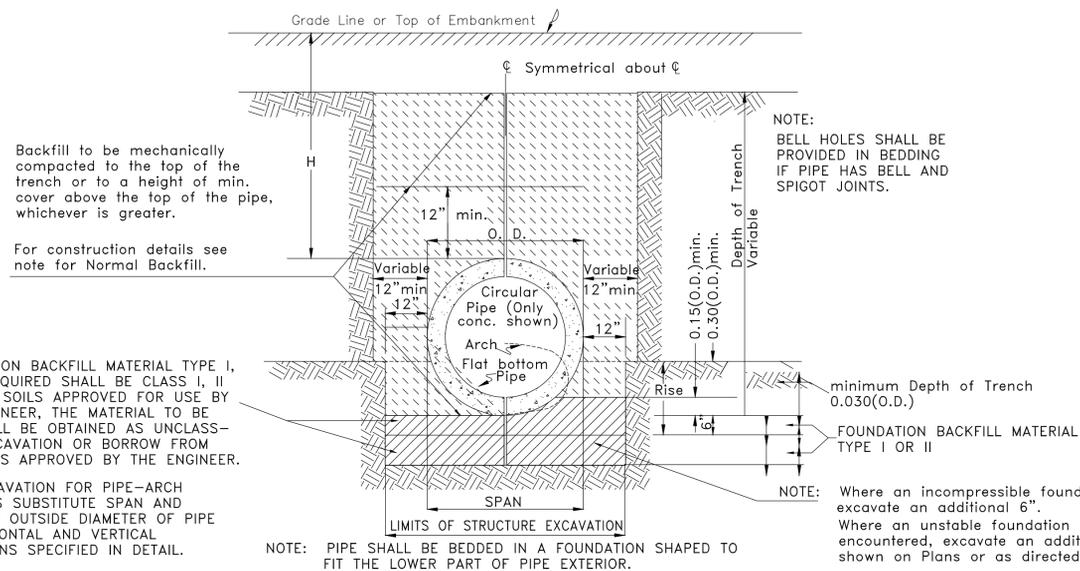
DETAIL "A"



(FOR CONDITIONS ON RIGHT SIDE OF DOUBLE LINE, TABLE NO.1)

DETAIL "B"

CROSS SECTIONS OF IMPERFECT TRENCH BACKFILL



TRENCH CONSTRUCTION FOR STORM DRAIN

TABLE NO. 1

TABLE SHOWING THE MINIMUM CLASSES OF CONCRETE PIPE FOR VARIOUS HEIGHTS OF FILL ABOVE TOP OF PIPE

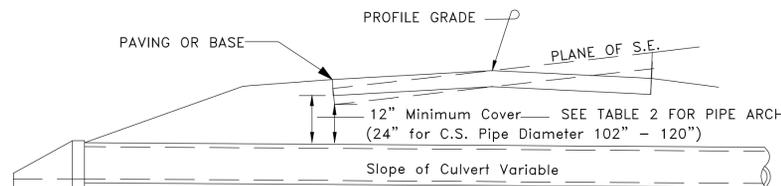
| PIPE DIAMETER (inches) | HEIGHT OF FILL IN FEET ABOVE TOP OF PIPE | | | | | | | | | | | |
|------------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 1-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-50 | 50-60 | 60-70 | 70-80 | 80-90 |
| 12 | III | III | IV | V | V | IV | IV | IV | V | V | V | |
| 15 | III | III | IV | V | V | IV | IV | IV | V | V | V | |
| 18 | III | III | IV | V | V | IV | IV | IV | V | V | V | |
| 24 | III | III | IV | V | V | IV | IV | IV | V | V | V | |
| 30 | III | III | IV | V | V | IV | IV | IV | V | V | V | |
| 36 | III | III | IV | V | V | IV | IV | IV | V | V | V | |
| 42 | III | III | IV | V | V | IV | IV | IV | V | V | V | |
| 48 | III | III | IV | V | V | IV | IV | IV | V | V | V | |
| 54 | III | III | IV | V | V | IV | IV | IV | V | V | V | |
| 60 | III | III | IV | V | V | IV | IV | IV | V | V | V | |
| 66 | III | III | IV | V | V | IV | IV | IV | V | V | V | |
| 72 | III | III | IV | V | V | IV | IV | IV | V | V | V | |
| 78 | III | III | IV | V | V | IV | IV | IV | V | V | V | |
| 84 | III | III | IV | V | V | IV | IV | IV | V | V | V | |
| 90 | III | III | | | | | | | | | | |
| 96 | III | III | | | | | | | | | | |
| 102 | III | III | | | | | | | | | | |
| 108 | III | III | | | | | | | | | | |

FOR CONDITIONS BETWEEN THE HEAVY LINE & DOUBLE LINE CLASS IV CONCRETE PIPE REQUIRES IMPERFECT BACKFILL ACCORDING TO DETAIL "A".

FOR CONDITIONS TO THE RIGHT OF THE DOUBLE LINE CLASS V CONCRETE PIPE REQUIRES IMPERFECT BACKFILL ACCORDING TO DETAIL "B".

TABLE NO. 3 - (INFORMATION ONLY)

| | Cor. Metal Thickness | Equivalent Gage |
|----------|----------------------|-----------------|
| STEEL | 0.064 | 16 |
| | 0.079 | 14 |
| | 0.109 | 12 |
| | 0.138 | 10 |
| | 0.168 | 8 |
| ALUMINUM | 0.060 | 16 |
| | 0.075 | 14 |
| | 0.105 | 12 |
| | 0.135 | 10 |
| | 0.164 | 8 |



DETAIL SHOWING MINIMUM COVER FOR PIPE CULVERTS

1329 FORTMAN DRIVE
SUITE B
CONYERS, GEORGIA 30094
PHONE (770)278-7432
FAX (770)918-6529



| REVISION | | DESCRIPTION |
|----------|------------|----------------|
| No. | DATE | ISSUED FOR BID |
| 0 | 02/28/2017 | |

CIVIL DETAILS

DESIGNED BY: DAVID CERVONE
DRAWN BY: JULIO TRINIDAD
CHECKED BY: DAVID CERVONE
DATE: 11/18/2016

SHEET
C-27



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3069 PEACHTREE IND. BLVD
DULUTH, GA 30097
PHONE: (770) 493-8685

| | |
|-------------------|----------|
| Date | 02/17/17 |
| Revision Schedule | |
| Description | |
| Issued For Bid | |
| Submitted | 0 |

**ROCKDALE COUNTY, GEORGIA
4 MG WATER STORAGE TANK
ELECTRICAL LEGEND AND NOTES**

Drawn By: IT
Checked By: AZ
Date: 08/15/2016
Scale:
Job Number: 16041

E-O

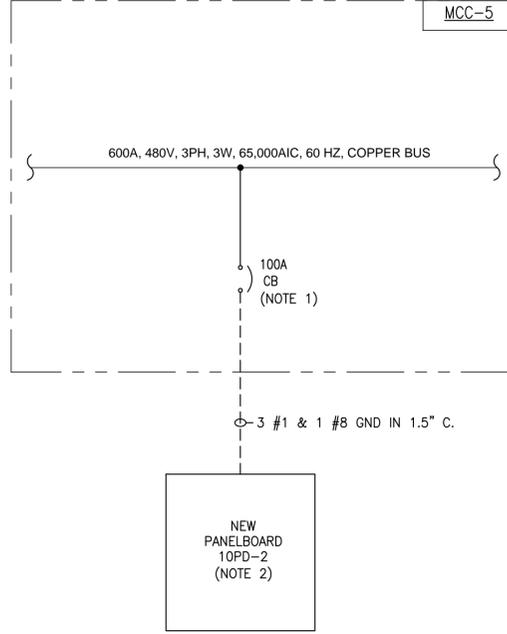
| SCHEMATIC DIAGRAM SYMBOLS | |
|---------------------------|--|
| | CONDUCTORS CONNECTED |
| | CONDUCTORS NOT CONNECTED |
| | CONNECTION POINT |
| | TERMINAL POINT FOR OUTGOING CONDUCTORS, WITH IDENTIFICATION. "XX" DENOTES CONTRACTOR ASSIGNED. |
| | MAGNETIC-ONLY CIRCUIT BREAKER (MCP), WITH CURRENT RATING |
| | CIRCUIT BREAKER, THERMAL-MAGNETIC UNLESS OTHERWISE NOTED, WITH FRAME SIZE AND TRIP RATING |
| | FUSE WITH SIZE AND OPTIONAL IDENTIFICATION. |
| | DISCONNECT SWITCH. RATING OPTIONAL. 30 AMP, 600V RATED MINIMUM UNLESS OTHERWISE NOTED. |
| | FUSE DISCONNECT SWITCH. RATING OPTIONAL. 30 AMP, 600V MINIMUM UNLESS OTHERWISE NOTED. |
| | MOTOR (HP AS SHOWN, PHASES AS REQUIRED) |
| | MOTOR STARTER COIL |
| | THERMAL MOTOR OVERLOAD |
| | MOTOR CONTACT |
| | LIMIT SWITCH NORMALLY CLOSED AND NORMALLY OPEN |
| | PRESSURE SWITCH NORMALLY CLOSED AND NORMALLY OPEN |
| | TEMPERATURE SWITCH NORMALLY CLOSED AND NORMALLY OPEN |
| | FLOW SWITCH NORMALLY CLOSED AND NORMALLY OPEN |
| | LEVEL SWITCH NORMALLY CLOSED AND NORMALLY OPEN |
| | PROXIMITY SWITCH NORMALLY CLOSED AND NORMALLY OPEN |
| | PULLCORD SWITCH NORMALLY CLOSED AND NORMALLY OPEN |
| | SOLENOID VALVE |
| | MOMENTARY PUSHBUTTON NORMALLY CLOSED AND NORMALLY OPEN |
| | SELECTOR SWITCH NORMALLY NORMALLY CLOSED AND NORMALLY OPEN |
| | PILOT LIGHT X = LENS COLOR A = AMBER B = BLUE G = GREEN R = RED W = WHITE |
| | CONTROL RELAY |
| | CONTROL RELAY CONTACT NORMALLY CLOSED AND NORMALLY OPEN |
| | ALARM LIGHT |
| | ALARM HORN |
| | CONTROL POWER TRANSFORMER, PRIMARY AND SECONDARY VOLTAGE SHOWN. SIZE AS SHOWN OR SPECIFIED. |
| | CURRENT TRANSFORMER. PRIMARY/SECONDARY TURNS RATIO AS SHOWN. |

| ONE LINE DIAGRAM SYMBOLS | |
|-----------------------------|--|
| | LOW VOLTAGE POWER CIRCUIT AND BREAKER DRAWOUT TYPE, FRAME TRIP SHOWN |
| | MOLDED CASE CIRCUIT BREAKER, FRAME AND TRIP ID SHOWN |
| | LIGHTNING ARRESTOR AND GROUND |
| | DISCONNECT OR ISOLATING SWITCH: CONTINUOUS RATING SHOWN |
| | MAGNETIC-ONLY CIRCUIT BREAKER (MCP), DRAWOUT TYPE, WITH CURRENT RATING |
| | FUSED SWITCH: FUSE AND SWITCH CONTINUOUS RATINGS SHOWN |
| | POWER TRANSFORMER: PRIMARY & SECONDARY VOLTAGES, %, SIZE SHOWN |
| | CURRENT TRANSFORMER: RATIO SHOWN (3 INDICATES NO. OF CT'S) METER SWITCH, XS: AS - AMMETER SWITCH VS - VOLTMETER SWITCH FS - FREQUENCY SWITCH |
| | POTENTIAL TRANSFORMER PRIMARY & SECONDARY VOLTAGES & WINDINGS SHOWN. (x) UNITS |
| | METER: A - AMMETER W - WATTMETER KWH - WATT-HOUR METER F - FREQUENCY METER VAR - VAR METER V - VOLTMETER |
| | FULL VOLTAGE, NON-REVERSING MAGNETIC MOTOR STARTER. NEMA SIZE INDICATED |
| | FULL VOLTAGE, REVERSING MAGNETIC MOTOR STARTER. NEMA SIZE INDICATED |
| | VFD-XXX VARIABLE FREQUENCY DRIVE. NEMA SIZE INDICATED |
| | RVSS-XXX REDUCED VOLTAGE SOLID STATE DRIVE (SOFT START). NEMA SIZE INDICATED |
| | MOTOR (HP AS SHOWN, PHASES AS REQUIRED) |
| | GENERATOR RECEPTACLE |
| | MANUAL TRANSFER SWITCH |
| | CABLE TAG: P - POWER CABLE C - CONTROL CABLE S - SHIELDED SIGNAL CABLE |
| CIRCUIT AND RACEWAY SYMBOLS | |
| | SCHEMATIC DIAGRAM FIELD WIRING. (UNLESS OTHERWISE NOTED) |
| | ONE LINE DIAGRAM EQUIPMENT ENCLOSURE. (UNLESS OTHERWISE NOTED) |
| | GROUNDING CONDUCTOR (CONCEALED), #4/0 AWG BARE COPPER |
| | GROUNDING CONDUCTOR (EXPOSED), #4/0 AWG INSULATED COPPER |
| | HOME RUN - SEE PANELBOARD SCHEDULE FOR CIRCUIT INFORMATION EXAMPLE: HOME TO PANELBOARD PBD A, CIRCUITS 1, 3, AND 5 |

| GENERAL ABBREVIATIONS | | | |
|---------------------------|---|--------|---|
| AR | ALARM RELAY | MCB | MAIN CIRCUIT BREAKER |
| AS | AMMETER SELECTOR SWITCH | MCC | MOTOR CONTROL CENTER |
| A, AMP | AMP(S), AMPERE(S) | MCP | MOTOR CONTROL PANEL/MOTOR CIRCUIT PROTECTOR |
| AC | ALTERNATING CURRENT | MECH | MECHANICAL |
| AFF | ABOVE FINISHED FLOOR | MFR | MANUFACTURE(R) |
| AHAP | AS HIGH AS POSSIBLE | MH | MANHOLE |
| AIC | AMPS INTERRUPTING CAPACITY, SYMM. | MIC | MICROPHONE |
| AL | ALUMINUM | MIN | MINIMUM |
| AT | AMPERE TRIP | MISC | MISCELLANEOUS |
| AF | AMPERE FRAME | mM | MILLIMETER |
| AUTO | AUTOMATIC | mV | MILLIVOLT |
| AUX | AUXILIARY | MCM | MILLI CIRCULAR MILLS |
| AWG | AMERICAN WIRE GAUGE | MOP | MOTOR OPERATOR PANEL |
| BC | BARE COPPER CONDUCTOR | MPR | MOTOR PROTECTION RELAY |
| BKR | BREAKER | MCB | MAIN CIRCUIT BREAKER |
| C | CONDUCTOR/CONTACTOR | MTR | MOTOR |
| CB | CIRCUIT BREAKER | MVS | MEDIUM VOLTAGE STARTER |
| CJB | CIRCUIT JUNCTION BOX | N/A | NOT APPLICABLE |
| CKT | CIRCUIT | NC | NORMALLY CLOSED |
| CLG | CEILING | NEUT,N | NEUTRAL |
| CR | CONTROL RELAY | NIC | NOT IN CONTRACT |
| CND | CONDUIT | NO | NORMALLY OPEN |
| CONC | CONCRETE | NOM | NOMINAL |
| CS | CONTROL SWITCH | NP | NAMEPLATE |
| CONT | CONTROL | NTS | NOT TO SCALE |
| CPT | CONTROL POWER TRANSFORMER | OC | ON CENTER |
| CT | CURRENT TRANSFORMER | OD | OUTSIDE DIAMETER |
| CU | COPPER | OH | OVERHEAD |
| D | DIAMETER | OL's | OVERLOADS |
| DB | DUCT BANK | OT | OIL TIGHT |
| DC | DIRECT CURRENT | P | POLE |
| DET | DETAIL | PA | PUBLIC ADDRESS |
| DIAG | DIAGRAM | PB | PUSHBUTTON, PULLBOX |
| DIPSH | DIFFERENTIAL PRESSURE SWITCH | PE | PHOTO ELECTRIC CELL |
| DS | DISCONNECT SWITCH | PF | POWER FACTOR |
| DWG | DRAWING | PH | PHASE |
| EA | EACH | PJB | POWER JUNCTION BOX |
| EC | ELECTRICAL CONTRACTOR | PLC | PROGRAMMABLE LOGIC CONTROLLER |
| EF | EXHAUST FAN | PNL | PANEL |
| EL | ELEVATION | PP | POWER PANEL |
| ELEC | ELECTRIC(AL) | PR | PAIR |
| EMER | EMERGENCY | PRI | PRIMARY |
| ENCL | ENCLOSURE/ENCLOSED | PS | PRESSURE SWITCH |
| EP | EXPLOSION PROOF EQUIP. | PT | POTENTIAL TRANSFORMER |
| EX, E | EXISTING | PVC | POLYVINYL CHLORIDE |
| FCP | FURNISHED WITH EQUIPMENT PANEL | PWR | POWER |
| FDR | FEEDER | QSH | SHEAR PIN LIMIT SWITCH |
| FLA | FULL LOAD AMPS | RCPT | RECEPTACLE |
| FPP | FIBER OPTIC DISTRIBUTION PANEL | RCT | REACTOR |
| FS | FLOW SWITCH | REF | REFERENCE REQ'D REQUIRED |
| FU | FUSE | RMS | ROOT MEAN SQUARE |
| FUT | FUTURE | RTD | RESISTANCE TEMPERATURE DETECTOR |
| FVNR | FULL VOLTAGE NON-REVERSING | SCH | SCHEDULE |
| FVR | FULL VOLTAGE REVERSING | SE | SPEED SENSOR |
| GALV | GALVANIZED | SEC | SECONDARY |
| GEN | GENERATOR | SEL | SELECTOR |
| GFR | GROUND FAULT RELAY | SER | SERVICE ENTRANCE RATED |
| GRD | GROUND | SPDT | SINGLE POLE DOUBLE THROW |
| GRS | GALVANIZED RIGID STEEL | SPEC | SPECIFICATION |
| H | HIGH | SPHFR | MOTOR SPACE HEATER |
| HGT | HEIGHT | SPKR | SPEAKER |
| HH | HANDHOLE | SSL | SPEED SWITCH |
| HID | HIGH INTENSITY DISCHARGE | SUB | SUBSTATION |
| HP | HORSEPOWER | SW | SWITCH |
| HS | HAND STATION (SWITCH) | SYMM | SYMMETRICAL |
| HVAC | HEATING, VENTILATION AND AIR CONDITIONING | SYS | SYSTEM |
| HZ | HERTZ (CYCLES PER SECOND) | SV | SOLENOID OPERATED VALVE |
| HOA | HAND/OFF/AUTO | SPB | SIGNAL PULL BOX |
| HOR | HAND/OFF/REVERSE | TB | TERMINAL BOX |
| HMH | HIGH VOLTAGE MANHOLE | TEL | TELEPHONE |
| ID | INSIDE DIAMETER | TEMP | TEMPERATURE |
| IMC | INDIVIDUAL MOTOR CONTROLLER | TFR | TRANSFORMER |
| INTLK | INTERLOCK | TH | THERMOSTAT |
| INST | INSTANTANEOUS | TJB | TERMINAL JUNCTION BOX |
| INSTR | INSTRUMENT | TSH | TEMPERATURE SWITCH HIGH |
| I/O | INPUT-OUTPUT | TV | TELEVISION |
| JB | JUNCTION BOX | TYP | TYPICAL |
| KV | KILOVOLT | TR | TIMING RELAY |
| KVA | KILOVOLT-AMPERE | TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSOR |
| KVAR | KILOVOLT-AMPERE REACTIVE | TSP | TWISTED SHIELDED PAIR |
| KW | KILOWATT | UG | UNDERGROUND |
| KWH | KILOWATT-HOUR | UH | UNIT HEATER |
| KAIC | KILO AMPERE INTERRUPTING CURRENT | UON | UNLESS OTHERWISE NOTED |
| L-O-R | LOCAL-OFF-REMOTE | V | VOLT |
| L | LONG | VA | VOLT AMPERE |
| LC | LIGHTING CONTACTOR | VAR | VOLT AMPERE REACTIVE |
| LCP | LOCAL CONTROL PANEL | VFD | VARIABLE FREQUENCY DRIVE |
| LP | LIGHTING PANEL | VSH | VIBRATION SWITCH |
| LOS | LOCK-OUT STOP | W | WATT, WIRE, WIDE |
| LSIG | LONG, SHORT, INSTANTANEOUS TRIP SETTING AND GROUND FAULT PROTECTION | W/O | WITHOUT |
| LSL | LEVEL SWITCH LOW | WE | WEIGHT LOAD CELL |
| LSO | LIMIT SWITCH OPEN | WIT | WEIGHT INDICATING TRANSMITTER |
| LSC | LIMIT SWITCH CLOSED | WP | WEATHERPROOF |
| LTG | LIGHTING | XL | WARNING HORN/LIGHT |
| LV | LOW VOLTAGE | XT | ANEMOMETER |
| LSH | LEVEL SWITCH HIGH | ZS | POSITION (LIMIT) SWITCH |
| M | MOTOR CONTACTOR | ZSO | POSITION (LIMIT) SWITCH OPEN |
| mA | MILLIAMPERE | ZSC | POSITION (LIMIT) SWITCH CLOSED |
| MAX | MAXIMUM | ZT | POSITION TRANSMITTER |
| FIRE ALARM SYSTEM SYMBOLS | | | |
| | SMOKE DETECTOR | | |

| GENERAL NOTES: | |
|---|--|
| 1. SCOPE: | <p>A. FURNISH ALL LABOR, MATERIAL, EQUIPMENT AND TOOLS REQUIRED TO COMPLETE INSTALLATION OF THE ELECTRICAL SYSTEM INCLUDING BUT NOT LIMITED TO WIRING, BOXES, LIGHT FIXTURES, PANELS, SWITCHES, RECEPTACLES, DISCONNECTS, STARTERS, AND ALL OTHER WORK INDICATED ON THE DRAWINGS OR AS SPECIFIED HEREIN.</p> <p>B. OBTAIN ALL PERMITS, INSPECTIONS, AND APPROVALS AS REQUIRED BY THE LOCAL AUTHORITIES HAVING JURISDICTION AND DELIVER CERTIFICATE OF APPROVAL TO THE GENERAL CONTRACTOR. ALL ASSOCIATED FEES SHALL BE PAID BY THE CONTRACTOR.</p> <p>C. ALL MATERIALS AND EQUIPMENT OF THE ELECTRICAL SYSTEM NECESSARY FOR ITS PROPER AND SAFE OPERATION OR OTHERWISE REQUIRED BY CODE, BUT NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED WITHOUT ADDITIONAL CHARGE.</p> <p>D. WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF NATIONAL ELECTRICAL CODE, THE LATEST STANDARD BUILDING CODE, ANY OTHER LOCALLY ADOPTED CODES AND LOCAL AUTHORITIES HAVING JURISDICTION.</p> |
| 2. ALL SUBSTITUTIONS FOR EQUIPMENT AND MATERIAL SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION. | |
| 3. CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL OTHER TRADES. IT IS THE RESPONSIBILITY OF CONTRACTOR TO VERIFY THE ACTUAL LOCATION OF EQUIPMENT, DUCTWORK, PIPING, ETC. AND COORDINATE THE INSTALLATION ACCORDINGLY. THE EQUIPMENT WIRING SHALL INCLUDE ALL NECESSARY CABLES AND CONDUIT REQUIRED FOR THE PROPER AND SAFE EQUIPMENT OPERATION. | |
| 4. ALL CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM CONDUCTOR SIZE FOR POWER AND LIGHTING WIRING. USE #14 AWG MINIMUM CONDUCTOR FOR SIGNAL WIRING. THE INSULATION FOR ALL CONDUCTORS SHALL BE THWN-2. SERVICE ENTRANCE CONDUCTORS SHALL BE XHHW. ALL CABLE INSTALLED IN CABLE TRAYS SHALL BE TC RATED. | |
| 5. POWER WIRES SIZES #12 AWG AND #10 AWG SHALL BE SOLID TYPE. ALL OTHER SIZES SHALL BE STRANDED. CABLES BETWEEN THE VFD AND ASSOCIATED MOTOR SHALL BE SHIELDED POWER VFD RATED CABLES. | |
| 6. ALL EXPOSED CONDUITS SHALL BE GALVANIZED RIGID STEEL, UNLESS NOTED OTHERWISE ON THE DRAWINGS, MINIMUM OF 3/4". ALL BURIED CONDUIT SHALL BE PVC-40, MINIMUM OF 1". ALL UNDERGROUND CONDUITS SHALL HAVE RIGID STEEL ELBOWS. | |
| 7. ALL FITTINGS SHALL BE CAST WITH THREADED HUBS. ALL CONNECTIONS SHALL BE COMPRESSION TYPE. | |
| 8. CONTRACTOR SHALL PROVIDE PULL STRING AND IDENTIFICATION LABELS AT EACH CONDUIT END FOR ALL SPARE CONDUITS. | |
| 9. CONTRACTOR SHALL CONFIRM ALL DIMENSIONS AND DISTANCES IN THE FIELD. IN CASE OF DISCREPANCY, CONTRACTOR SHALL INCLUDE A MORE EXPENSIVE OPTION. | |
| PLAN DRAWING SYMBOLS | |
| | MOTOR CONNECTION |
| | MOTOR STARTER, INDIVIDUAL -- NOT LOCATED IN AN MCC OR SIMILAR GROUP ASSEMBLY |
| | COMBINATION MOTOR STARTER/DISCONNECT INDIVIDUAL -- NOT LOCATED IN AN MCC OR SIMILAR GROUP ASSEMBLY |
| | DISCONNECT SWITCH. DISCONNECT SWITCHES ARE HEAVY DUTY, SINGLE THROW, WITH NEMA 4X ENCLOSURE UNLESS OTHERWISE NOTED. MOUNT AT 4'-8" TO CENTER OF DISCONNECT. |
| | FUSED DISCONNECT, NON-FUSED. PROVISION FOR CLASS R FUSES. |
| | FIELD INSTRUMENT CONNECTION |
| | START/STOP HAND STATION MOUNTED TO HANDRAIL (NEMA 4X UNLESS OTHERWISE NOTED) |
| | 120V, 20A, 1P TOGGLE SWITCH [BLANK] = 1P TOGGLE SWITCH 2 = 2P TOGGLE SWITCH 3 = 3P TOGGLE SWITCH D = SLIDE DIMMER M = MOTOR RATED S = TOGGLE WITH OCCUPANCY SENSOR |
| | DUPLEX 120V RECEPTACLE, 120V, 20A, 1P. MOUNT 6" ABOVE COUNTER, DESK, OR CABINET. |
| | GFCI DUPLEX 120V RECEPTACLE, 120V, 20A, 1P. MOUNT 6" ABOVE COUNTER, DESK, OR CABINET. |
| | QUADRUPLEX 120V RECEPTACLE, 120V, 20A, 1P. MOUNT 6" ABOVE COUNTER, DESK, OR CABINET. |
| | TELEPHONE BOX. MOUNT 18" A.F.F., INSTALL A 1/2" CONDUIT FROM BOX TO 6" ABOVE CEILING. PROVIDE PULL CORD FOR FUTURE CONNECTIONS AS REQUIRED. |
| | JUNCTION BOX |
| | 60A, 480V, 3PH WELDING RECEPTACLE WITH INTERLOCKED 60A (NEMA 4X FUSED DISCONNECT SWITCH UNLESS OTHERWISE NOTED) |
| GROUNDING SYMBOLS | |
| | GROUND ROD, 3/4" x 10'-0", COPPERCLAD (UNLESS OTHERWISE NOTED) |
| | GROUND ROD AND WELL |
| | COMPRESSION TYPE GROUNDING BOND TO MOTOR CASING OR EQUIPMENT |
| | EXOTHERMIC TYPE GROUNDING BOND TO MOTOR CASING OR EQUIPMENT |

EXISTING MCC-5 AT HIGH SERVICE PUMP STATION ELECTRICAL ROOM



1 PARTIAL MCC-5 ONE LINE DIAGRAM



LOCATION OF NEW 100A, 3P CIRCUIT BREAKER (NOTE 1)

2 EXISTING MCC-5 MODIFICATIONS

NOTES:

- CONTRACTOR SHALL PROVIDE AND INSTALL 100A, 3P CIRCUIT BREAKER IN EXISTING 480V MCC SPACE BUCKET TO FEED NEW PANELBOARD 10DP-2. THE BREAKER SHALL BE MCC BUCKET MOUNTED AND THE SAME MANUFACTURER AS MCC AND HAVE AIC RATING OF 65KAIC. IDENTIFICATION TAGS SHALL BE SUPPLIED AND INSTALLED TO MATCH EXISTING.
- CONTRACTOR SHALL PROVIDE AND INSTALL 100A, 480V, 3PH, 42,000AIC POWER PANELBOARD. SEE PANELBOARD SCHEDULE FOR MORE INFORMATION.

| PANELBOARD | | 10DP-2 | | (LOCATED AT HIGH SERVICE PUMP STATION ELECTRICAL ROOM) | | | | | | | | | |
|---|---------------------------------|-----------|------|--|------|---------|------|------|------|------|-----------|---------------------------------|--------|
| VOLTAGE (L-N): | | --- | | ENCLOSURE TYPE: | | NEMA 1 | | | | | | | |
| VOLTAGE (L-L): | | 480V | | MOUNTING: | | SURFACE | | | | | | | |
| PHASES, WIRES: | | 3 φ 3 W | | AIC RATING (A): | | 42000 | | | | | | | |
| MINIMUM BUS CAPACITY (A): | | 125A | | NOTES: | | | | | | | | | |
| MAIN O.C. DEVICE (A): | | 100A MB | | | | | | | | | | | |
| CKT NO | DESCRIPTION | TRIP AMPS | POLE | PHASE LOADS (AMP) | | | | | | POLE | TRIP AMPS | DESCRIPTION | CKT NO |
| | | | | A | B | C | | | | | | | |
| 1 | OPEN/CLOSE VALVE ACTUATOR MOV-1 | 20 | 3 | 10.0 | 10.0 | | | | | 3 | 20 | OPEN/CLOSE VALVE ACTUATOR MOV-4 | 2 |
| 3 | | | | | 10.0 | 10.0 | | | | | | | 4 |
| 5 | | | | | | | 10.0 | 10.0 | | | | | 6 |
| 7 | OPEN/CLOSE VALVE ACTUATOR MOV-2 | 20 | 3 | 10.0 | 10.0 | | | | | 3 | 20 | OPEN/CLOSE VALVE ACTUATOR MOV-5 | 8 |
| 9 | | | | | | | 10.0 | 10.0 | | | | | 10 |
| 11 | | | | | | | | 10.0 | 10.0 | | | | 12 |
| 13 | OPEN/CLOSE VALVE ACTUATOR MOV-3 | 20 | 3 | 10.0 | 0.0 | | | | | 3 | 20 | SPARE | 14 |
| 15 | | | | | | | 10.0 | 0.0 | | | | | 16 |
| 17 | | | | | | | | 10.0 | 0.0 | | | | 18 |
| 19 | SPACE | | | 0.0 | 0.0 | | | | | | | SPACE | 20 |
| 21 | SPACE | | | | | 0.0 | 0.0 | | | | | SPACE | 22 |
| 23 | SPACE | | | | | | | | 0.0 | 0.0 | | SPACE | 24 |
| | | | | CONNECTED LOAD PHASE TOTALS (AMP) | | | | | | | | | |
| | | | | 50.0 | 50.0 | 50.0 | | | | | | | |
| USE 3/C #12 & 1/C #12GND IN 3/4\"C. FOR 20A CB USE 3/C #10 & 1/C #10GND IN 1\"C. FOR 30A CB SEE CABLE SCHEDULE FOR CABLE/CONDUIT SIZES IF FEEDER BREAKER SIZE IS GREATER THAN 30A | | | | | | | | | | | | | |



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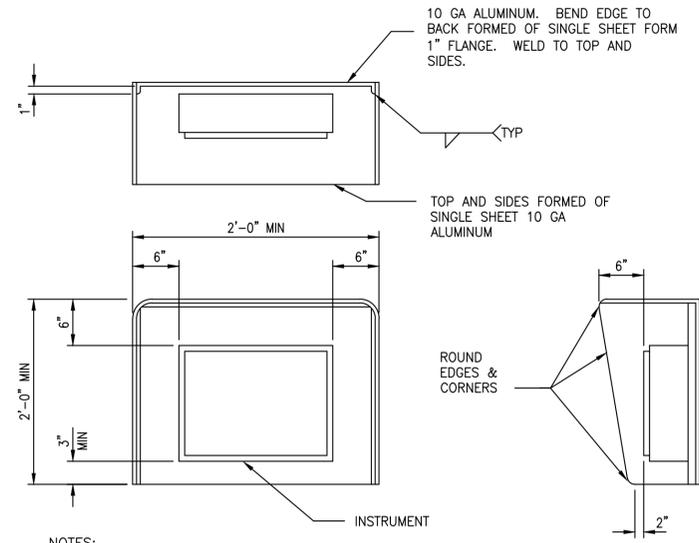


3069 PEACHTREE IND. BLVD
SUITE 110
DULUTH, GA 30097
PHONE: (770) 493-8685

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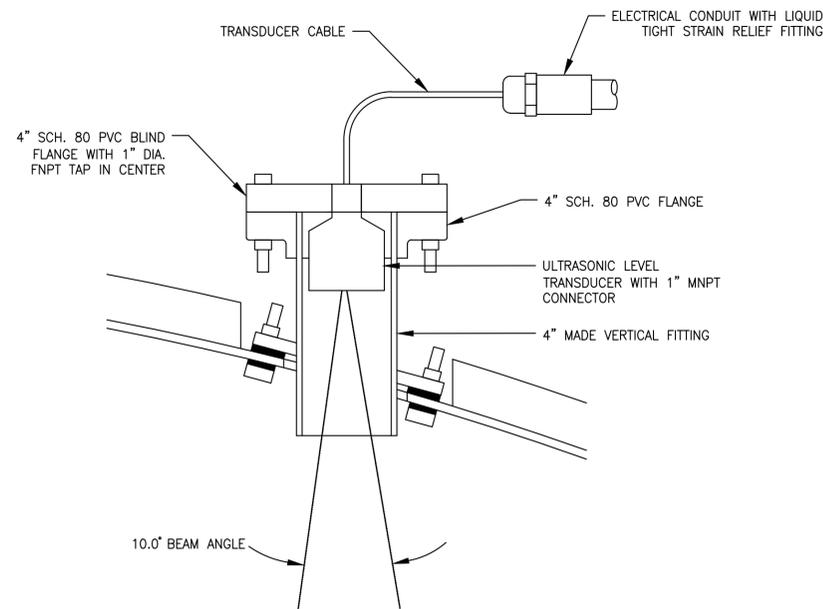
ROCKDALE COUNTY, GEORGIA
4 MG WATER STORAGE TANK
PARTIAL ONE LINE DIAGRAM &
10DP-2 PANELBOARD SCHEDULE

Drawn By: IT
Checked By: AZ
Date: 08/15/2016
Scale:
Job Number: 16041

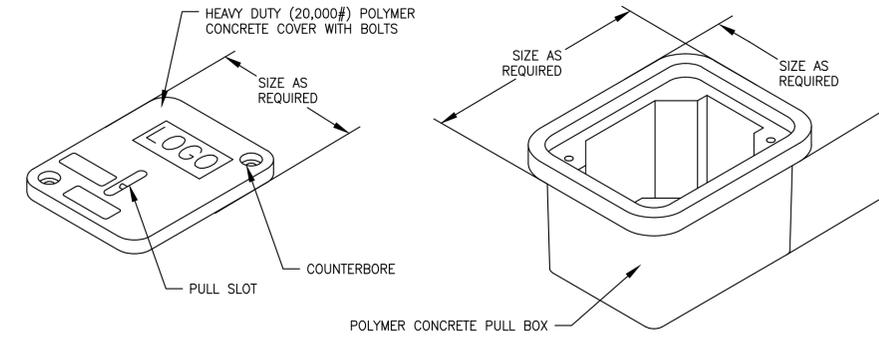


- NOTES:**
1. ALL EXPOSED EDGES TO BE GROUND SMOOTH AND BURR FREE.
 2. MOUNT SUN/RAIN SHIELD BETWEEN INSTRUMENT AND STANCHION. USE STAINLESS STEEL BOLTS AND INSULATING WASHERS AND SLEEVES.

1 SUN/RAIN SHIELD DETAIL

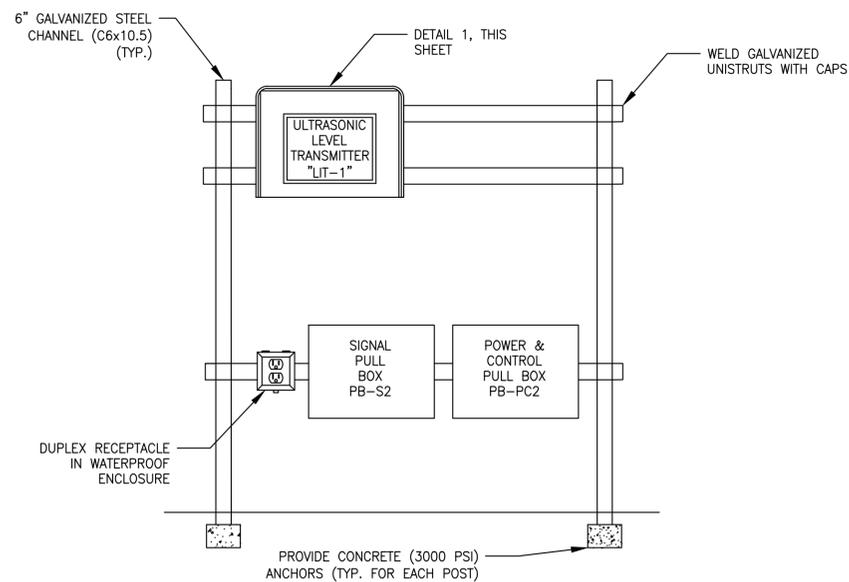


2 ULTRASONIC LEVEL SENSOR



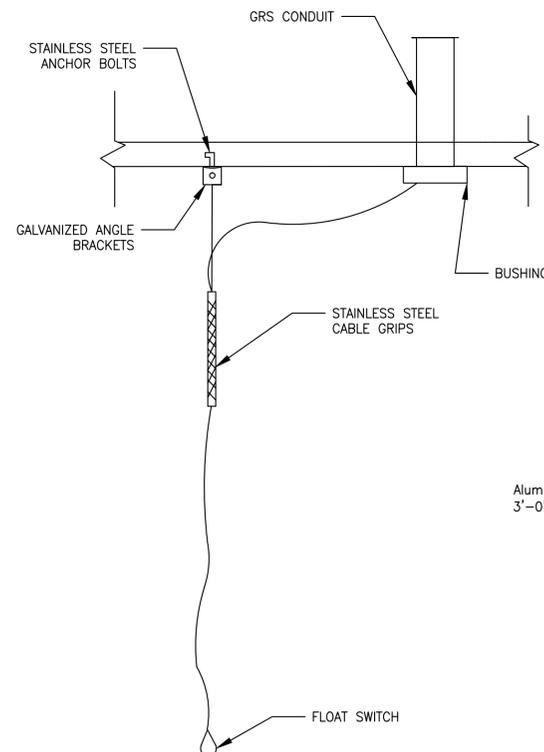
- NOTES:**
1. PULL BOX TO BE "HUBBELL" QUAZITE BOX MADE WITH PRECAST POLYMER CONCRETE FIBERGLASS REINFORCED, STACKABLE WITH SELF-ALIGNING, REPLACEABLE EZ-NUT.
 2. CONTRACTOR SHALL SIZE THE PULLBOXES BASED ON THE NUMBER OF CONDUITS. USE MANHOLES WHERE PULLBOX WIDTH/HEIGHT IS NOT SUFFICIENT TO ACCEPT ALL ENTERING/EXITING CONDUITS.

3 UNDERGROUND PULL BOX DETAIL

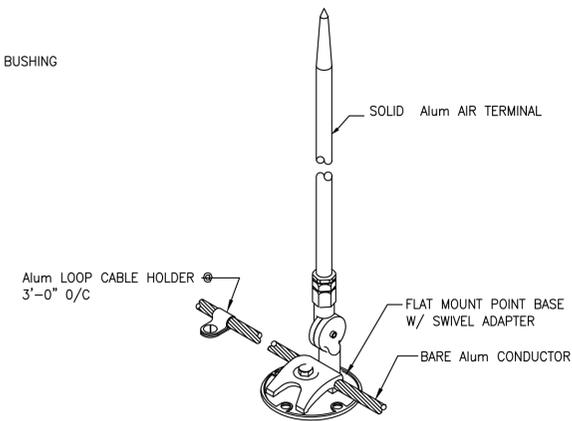


- NOTES:**
1. CONTRACTOR SHALL PROVIDE ANCHORS, CHANNELS AND UNISTRUTS AS REQUIRED TO SUPPORT EQUIPMENT.
 2. SEE ELECTRICAL PLAN DRAWING FOR ACTUAL EQUIPMENT LAYOUT.
 3. CONTRACTOR SHALL MOUNT PULL BOXES AND RECEPTACLE AT 18" ABOVE FINISHED GRADE TO THE BOTTOM OF THE EQUIPMENT.

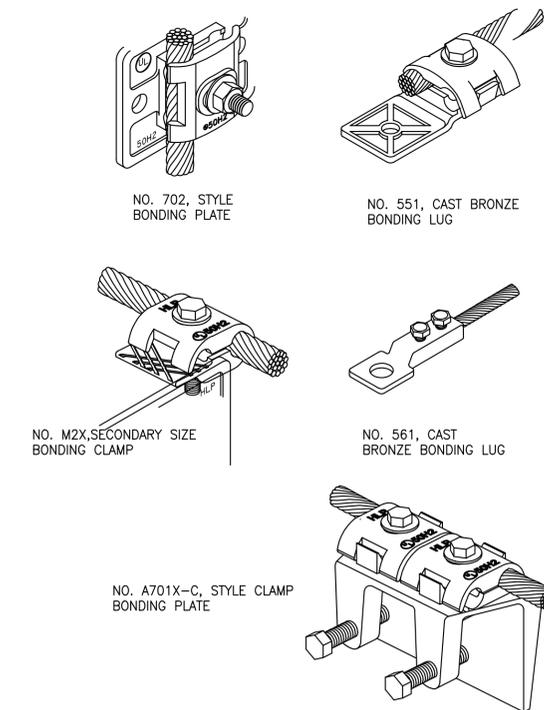
4 TYPICAL UNISTRUT LAYOUT



5 FLOAT SWITCH DETAIL



6 AIR TERMINAL LIGHTNING PROTECTION



7 TYPICAL BONDING LUGS AND PLATES
MODEL NUMBERS ARE BASED ON THOMPSON LIGHTNING PROTECTION, INC EQUIPMENT



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ROCKDALE COUNTY, GEORGIA
4 MG WATER STORAGE TANK
ELECTRICAL INSTALLATION DETAILS

Drawn By: IT
Checked By: AZ
Date: 08/15/2016
Scale:
Job Number: 16041