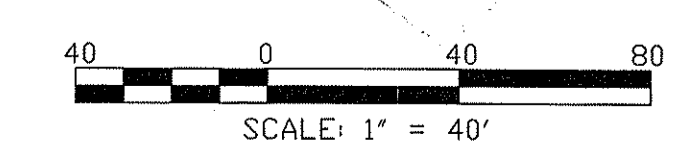


**PLAN**  
SCALE: 1"=40'

Reflects the changes noted in the Redlines of the previous drawing provided under Section 10 of the issued Insignificant Alteration permit # 12-0109 for the City of Newport, RI - Lawton Valley Water Treatment Facility located in Portsmouth, RI.

- NOTES:**
- FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, SEE SHEET 00 C-001.
  - REFER TO CIVIL DETAILS FOR MOW STRIP, PLANTING AREA, SIDEWALK, AND CURB TO PARKING AREA.
  - SEE SHEET 00 C-101 FOR PROPOSED EROSION CONTROLS.



**RIDEM PERMIT SUBMITTAL NOT FOR CONSTRUCTION**

DATE MADE BY CHECKED MARK DESCRIPTION REVISIONS

**AECOM**  
A Joint Venture  
GENERAL CONTRACTORS

NICKERSON  
GENERAL CONTRACTORS

CHRISTOPHER J. SCHMITT  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL  
NO. 06892  
EXPIRES 6/30/14

CITY OF NEWPORT, RHODE ISLAND  
LAWTON VALLEY WATER TREATMENT FACILITY  
STORMWATER PLAN  
CIVIL

**RECEIVED**  
JUL 08 2014  
Department of Environmental Management  
Office of Environmental Management  
General Contractors & Technical Assistance  
PROJECT NO: 60240199  
CAD DWG FILE: 00 C-304\_RIDEM  
DESIGNED BY: C. SCHMITT  
DRAWN BY: W. BALETSA  
DEPT CHECK: C. BENZIGER  
PROJ CHECK: R. POGODZIENSKI  
DATE: JUNE 2012  
SCALE: AS NOTED  
**00 C-304**  
SHEET 0F

PARTY/FILENAME: \\USWAK1\PROJ\DATA\_3\PROJ\02\0199 - NEWPORT LAWTON VALLEY\DRWG\02\0199 C-304\_RIDEM.DWG  
LAST UPDATE: Tuesday, June 23, 2012 2:10:46 PM  
ANSI D - 28-Jun-12



# CITY OF NEWPORT, RHODE ISLAND

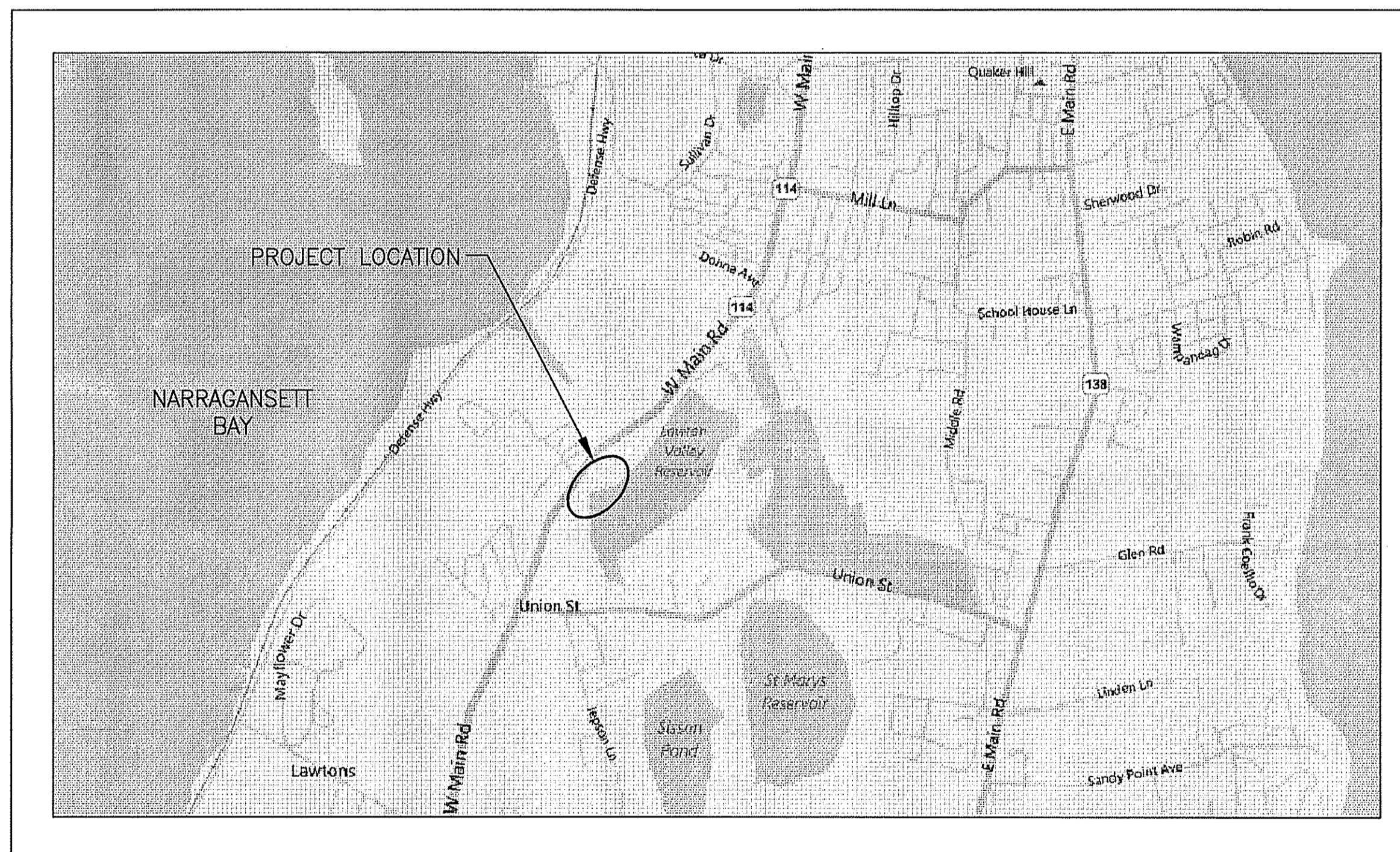
## LAWTON VALLEY

### WATER TREATMENT FACILITY

#### RIDEM PERMIT SUBMISSION

JUNE 2012

Environmental Management  
 JUN 27 2012  
 Office of Water Resources



VICINITY PLAN

SCALE: 1"=2000'

PROJECT: 09-039

### INDEX OF DRAWINGS

SHEET NO. TITLE

GENERAL

00 G-001 COVER SHEET

CIVIL

- 00 C-001 LEGEND, ABBREVIATIONS AND GENERAL NOTES
- 00 C-101 EXISTING CONDITIONS, DEMOLITION AND EROSION CONTROL PLAN I
- 00 C-102 EXISTING CONDITIONS, DEMOLITION AND EROSION CONTROL PLAN II
- 00 C-103 STAGED EROSION CONTROL PLAN
- 00 C-201 TEMPORARY USES PLAN
- 00 C-202 INTERIM WATER STORAGE TANK AND INTERIM PIPING PLAN
- 00 C-301 SITE PLAN
- 00 C-302 YARD PIPING PLAN I
- 00 C-303 YARD PIPING PLAN II
- 00 C-304 STORMWATER PLAN
- 99 C-501 CIVIL DETAILS I
- 99 C-502 CIVIL DETAILS II
- 99 C-503 CIVIL DETAILS III
- 99 C-504 CIVIL DETAILS IV

LANDSCAPING

- 00 L-401 LANDSCAPE PLAN I
- 00 L-402 LANDSCAPE PLAN II
- 00 L-403 LANDSCAPE DETAILS

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED AUG 6 2012 FILE # 12-0109  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

RECEIVED  
 JUN 27 2012  
 Department of Environmental Management  
 Office of Technical & Customer Assistance

RIDEM PERMIT SUBMITTAL  
 NOT FOR CONSTRUCTION

Nickerson  
 GENERAL CONTRACTORS  
 ACOM  
 A Joint Venture

CHRISTOPHER J. SCHMITT  
 9892  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL

CITY OF NEWPORT, RHODE ISLAND  
 LAWTON VALLEY WATER TREATMENT FACILITY

COVER SHEET

GENERAL

PROJECT NO: 60240199  
 CAD DWG FILE: 12-0109-RIDEM PERMIT  
 DESIGNED BY: C. SCHMITT  
 DRAWN BY: W. BALETSA  
 DEPT CHECK: C. BENZIGER  
 PROJ CHECK: R. POGODZIENSKI  
 DATE: JUNE 2012  
 SCALE: AS NOTED

00 G-001

SHEET OF

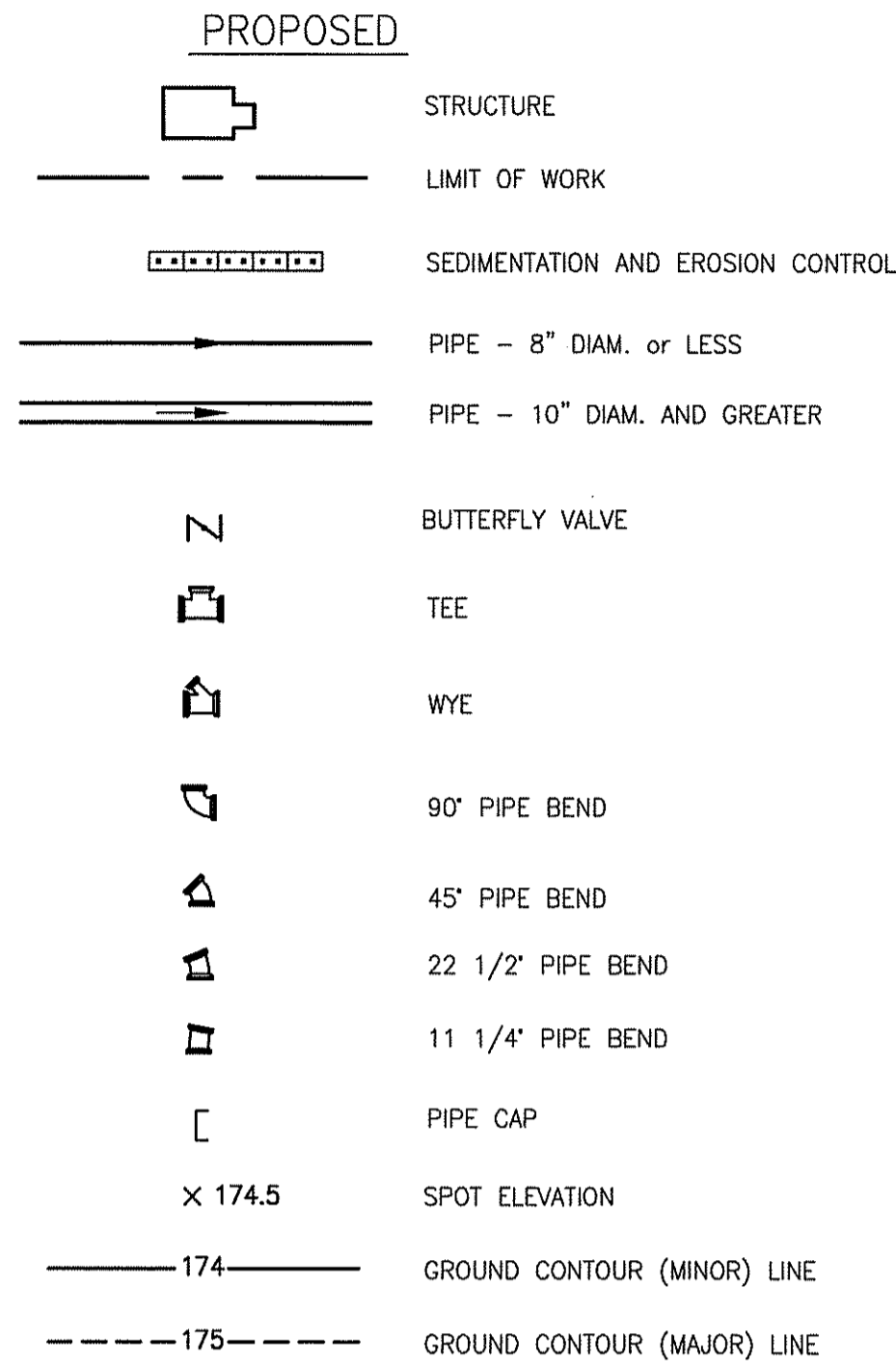
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 LAST UPDATE: Tuesday, June 26, 2012 3:48:27 PM  
 PLOT DATE: Tuesday, June 26, 2012 3:48:34 PM  
 ANSI D - 28-Jun-12

**GENERAL NOTES:**

- EXISTING TOPOGRAPHY SITE INFORMATION FROM SURVEYING AND MAPPING CONSULTANTS (SMC) OF BRAINTREE, MA, DATED MARCH 3, 2009 WAS PROVIDED BY THE CITY OF NEWPORT, RI.
- COORDINATES, IN U.S. SURVEY FEET, ARE REFERENCED TO THE MASSACHUSETTS COORDINATE SYSTEM, MAINLAND ZONE, REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD '83/CORS), AS DEFINED BY NGS STATION RESERVOIR PID# LW0254.
- ELEVATIONS, IN U.S. SURVEY FEET, ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1929 (NGVD '29), AS DEFINED BY NGS STATION RESERVOIR PID# LW0254, NGS BENCH MARK DISKS G 28 (PID#LW0250) AND H 28 (PID#LW0252).
- PROPERTY LINES WHERE SHOWN ARE APPROXIMATE AND INTENDED FOR GENERAL INFORMATION ONLY.
- UNDERGROUND UTILITIES AS SHOWN ARE APPROXIMATE ONLY. ADDITIONAL UTILITIES MAY BE PRESENT. CONTRACTOR SHALL CONTACT DIG SAFE AT 811 PRIOR TO EXCAVATION ACTIVITIES.
- ERECT EROSION CONTROL CHECKS PRIOR TO COMMENCING ANY EXCAVATION OR STORAGE OF BACKFILL MATERIAL ON-SITE.
- EXCAVATION OF ANY TYPE SHALL BE ACCOMPLISHED IN SUCH A MANNER THAT UNDERGROUND UTILITIES OR STRUCTURES ARE NOT DAMAGED. ALL SIDEWALKS, AND OTHER STRUCTURES DISTURBED BY CONSTRUCTION IN OR OUTSIDE THE PROJECT AREA SHALL BE RETURNED TO THEIR ORIGINAL CONDITION OR BETTER AND SHALL BE GRADED TO MEET PROPOSED CONSTRUCTION.
- NECESSARY MEASURES AND CONTINUOUS BARRIERS OF SUFFICIENT TYPE, SIZE AND STRENGTH SHALL BE PROVIDED, AS APPLICABLE, TO PREVENT ACCESS TO ALL OPEN EXCAVATIONS AT THE COMPLETION OF EACH DAYS WORK.
- STOCKPILING OF CONSTRUCTION MATERIALS WITHIN 50 FT. OF WATERWAYS IS PROHIBITED.
- EXISTING UTILITIES INTERFERING WITH THE WORK SHALL BE RELOCATED AS DIRECTED.
- EXACT HORIZONTAL LOCATION OF PIPE TO BE INSTALLED SHALL MATCH AS CLOSELY AS POSSIBLE TO THE LOCATION SHOWN ON THE PLANS. PLACEMENT OF FITTINGS, ETC. MAY VARY FROM PLAN LOCATIONS ACCORDING TO LAYING LENGTHS OF PIPE.
- PIPING WHICH IS EXPOSED DURING EXCAVATION AND IS NOT TO BE DEMOLISHED, SHALL BE SUPPORTED, BRACED OR OTHERWISE PROTECTED DURING CONSTRUCTION ACTIVITIES.
- FINAL GRADING SHALL BE UNIFORM BETWEEN SPOT ELEVATIONS AND CONTOURS.
- AREAS ADJACENT TO NEW CONSTRUCTION SHALL BE FILLED AND GRADED FOR POSITIVE DRAINAGE.
- ALL AREAS OF EXCAVATION, BACKFILL, FILL AND GRADING SHALL BE RETURNED TO THE ORIGINAL GRADE UNLESS SHOWN ON THE DRAWINGS.
- ALL COVERS, FRAMES, AND GRATES FROM STRUCTURES WHICH ARE ABANDONED UNDER THIS CONTRACT SHALL BE PROTECTED FROM DAMAGE AND SHALL BE TURNED OVER TO THE CITY.
- ALL UTILITY BOXES, FRAMES, GRATES, ETC. NOT TO BE ABANDONED SHALL BE RESET TO THE PROPER GRADE.
- EXISTING TREES, BUSHES, AND SHRUBS SHALL BE PROTECTED FROM DAMAGE UNLESS IN DIRECT CONFLICT WITH PROPOSED STRUCTURES, ROADWAYS, OR PATHS.
- UNPAVED AREAS TO BE DISTURBED SHALL BE CLEARED AND GRUBBED, IF REQUIRED, AND RESTORED WITH RHODE ISLAND BLEND LOAM AND SEED MIX.
- INTERRUPTION TO WATER AND OTHER UTILITIES SHALL BE COORDINATED WITH THE CITY.
- ALL BURIED WATER AND DRAIN PIPES SHALL HAVE A MINIMUM 4 FOOT DEPTH OF COVER.
- ALL MATERIALS AND EQUIPMENT COMING INTO CONTACT WITH POTABLE WATER SHALL COMPLY WITH ANSI/NSF STANDARD 61.

**ABBREVIATIONS**

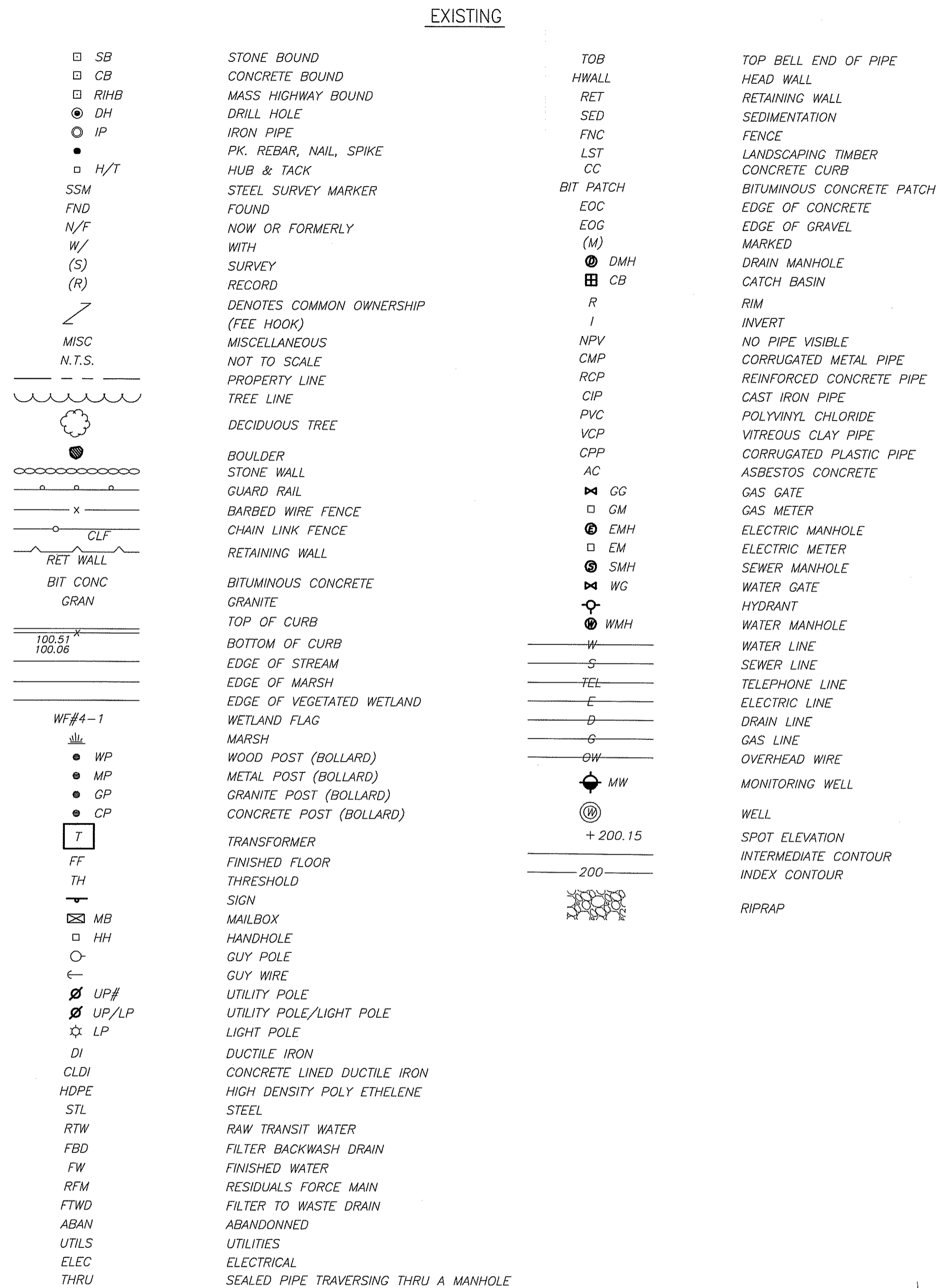
- ASSF AREA SUBJECT TO STORM FLOWAGE  
 BFV BUTTERFLY VALVE  
 DIA DIAMETER  
 EL ELEVATION  
 EXIST EXISTING  
 T.O.C TOP OF CONCRETE  
 R/U ROLL-UP (DOOR)  
 G GAS  
 \* REFER TO MECHANICAL PIPE SCHEDULE SHEET 00 D-003 FOR ALL PIPING INDICATED



**EROSION CONTROL NOTES:**

- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED, MONITORED, AND MAINTAINED IN ACCORDANCE WITH THE RHODE ISLAND EROSION AND SEDIMENT CONTROL HANDBOOK; THE RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL, THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN AND OTHER SPECIFICATIONS AND STANDARD DETAILS; AND THE SITE SPECIFIC STORMWATER POLLUTION PREVENTION PLAN PREPARED FOR THE PROJECT.
- THE INTENT OF THE EROSION AND SEDIMENTATION CONTROLS IS TO PREVENT POLLUTANTS FROM LEAVING THE CONSTRUCTION SITE AND ENTERING WATERWAYS OR ENVIRONMENTALLY SENSITIVE AREAS DURING AND AFTER CONSTRUCTION. IT IS THE OPERATOR'S RESPONSIBILITY TO MANAGE THE SITE DURING EACH CONSTRUCTION PHASE SO AS TO PREVENT POLLUTANTS FROM LEAVING THE SITE.
- THE OPERATOR SHALL INITIATE APPROPRIATE VEGETATIVE PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED, UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY ONE (21) DAYS.
- AS FAR AS IS PRACTICABLE, EXISTING VEGETATION SHALL BE PROTECTED AND LEFT IN PLACE, IN ACCORDANCE WITH THE CLEARING LIMITS SHOWN ON THE APPROVED PLANS. PRIOR TO ANY LAND DISTURBANCE ACTIVITIES COMMENCING ON THE SITE, THE CONTRACTOR SHALL PHYSICALLY MARK LIMITS OF DISTURBANCE (LOD) ON THE SITE AND ANY AREAS TO BE PROTECTED WITHIN THE SITE, SO THAT WORKERS CAN CLEARLY IDENTIFY THE AREAS TO BE PROTECTED.
- INSTALLATION OF EROSION AND SEDIMENT CONTROLS THAT ARE REQUIRED FOR A PARTICULAR PHASE OF THE WORK SHALL BE IN PLACE AND FUNCTIONAL BEFORE ANY EARTHWORK BEGINS ON THAT PARTICULAR PHASE.
- CARE WILL BE TAKEN TO AVOID HAVING UNSTABILIZED AREAS EXPOSED DURING PRECIPITATION EVENTS. WEATHER FORECASTS WILL BE ROUTINELY CHECKED, AND IN THE CASE OF AN EXPECTED PRECIPITATION EVENT OF OVER 0.25-INCHES OVER A 24-HOUR PERIOD, ALL BMPs WILL BE INSPECTED, AND MAINTAINED AS NECESSARY, PRIOR TO THE WEATHER EVENT. IN THE CASE OF AN EXTREME WEATHER FORECAST (GREATER THAN ONE-INCH OF RAIN OVER A 24-HOUR PERIOD), ADDITIONAL EROSION/SEDIMENT CONTROLS WILL BE INSTALLED WHERE APPROPRIATE.
- EROSION AND POLLUTION CONTROLS SHALL BE MAINTAINED BY THE SITE OPERATOR TO THE SATISFACTION OF THE SITE OWNER. EROSION AND POLLUTION CONTROLS WILL BE CLEANED WHEN DIRECTED BY THE SITE OPERATOR; AFTER A RAINSTORM; AND/OR WHENEVER MAINTENANCE IS REQUIRED AS DETERMINED BY ROUTINE INSPECTION.
- EROSION CONTROL STRUCTURES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED EARTH HAS BEEN SECURELY STABILIZED AND ACCEPTED BY THE SITE OWNER. BEFORE FINAL REMOVAL, ALL ACCUMULATED SEDIMENT ON THE UPSTREAM SIDE SHALL BE REMOVED AND LEGALLY DISPOSED OF.
- THE SITE OPERATOR SHALL DESIGNATE A FULL-TIME, ON-SITE CONTACT PERSON RESPONSIBLE FOR WORKING WITH THE SITE OWNER TO RESOLVE EROSION AND SEDIMENTATION CONTROL ISSUES.
- ALL STORMWATER CONTROL MEASURES, DISTURBED AREAS, AREAS USED FOR THE STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION (INCLUDING UNSTABILIZED SOIL STOCKPILES), DISCHARGE LOCATIONS, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE MUST BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS AFTER ANY STORM EVENT WHICH GENERATES AT LEAST 0.25-INCHES OF PRECIPITATION PER TWENTY FOUR (24) HOUR PERIOD AND/OR AFTER A SIGNIFICANT AMOUNT OF RUNOFF OR SNOWMELT. A SEPARATE INSPECTION REPORT WILL BE PREPARED FOR EACH INSPECTION. THE INSPECTION REFERENCE NUMBER SHALL BE A COMBINATION OF THE RIDEM CONSTRUCTION GENERAL PERMIT NUMBER CONSECUTIVELY NUMBERED INSPECTIONS. AS AN EXAMPLE, INSPECTION REFERENCE NUMBER FOR THE 4TH INSPECTION OF A PROJECT WOULD BE: RI100###-4. EACH REPORT WILL BE SIGNED AND DATED BY THE INSPECTOR AND MUST BE KEPT ONSITE AS REQUIRED BY PART I.D OF THE RIDEM CONSTRUCTION GENERAL PERMIT. EACH REPORT WILL BE SIGNED AND DATED BY THE SITE OPERATOR AND RETURNED TO THE INSPECTOR WITHIN 24 HOURS OF RECEIPT. IT IS THE RESPONSIBILITY OF THE SITE OPERATOR TO MAINTAIN A COPY OF THE SWPPP, COPIES OF ALL COMPLETED INSPECTION REPORTS, AND AMENDMENTS AS PART OF THE SWPPP DOCUMENTATION AT THE SITE DURING CONSTRUCTION.
- IF SITE INSPECTOR DETERMINES THAT CORRECTIVE ACTION IS REQUIRED, THE INSPECTOR SHALL NOTE SUCH ON THE INSPECTION REPORT AND SHALL INFORM THE SITE OPERATOR THAT CORRECTIVE ACTION IS NECESSARY. THE SITE OPERATOR MUST MAKE ALL NECESSARY REPAIRS WHENEVER MAINTENANCE OF THE EROSION AND POLLUTION CONTROLS IS REQUIRED NO LATER THAN SEVEN (7) CALENDAR DAYS FROM THE DATE OF INSPECTION.

**LEGEND**



**RIDEM PERMIT SUBMITTAL  
 NOT FOR CONSTRUCTION**

**AECOM**  
 A Joint Venture  
 Nickerson  
 GENERAL CONTRACTORS

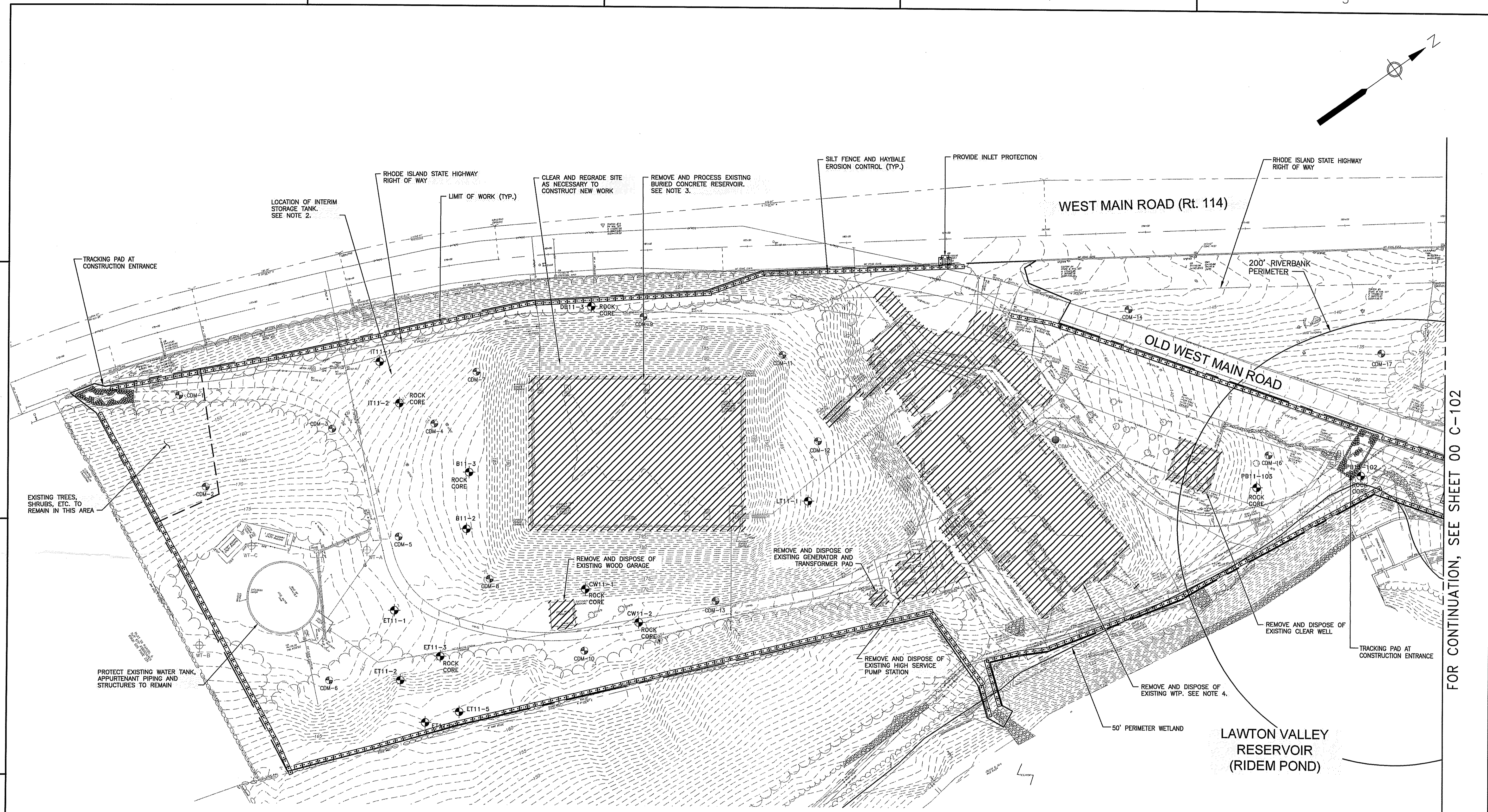
CHRISTOPHER J. SCHMITT  
 No. 9992  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL

CITY OF NEWPORT, RHODE ISLAND  
 LAWTON VALLEY WATER TREATMENT FACILITY  
**LEGEND, ABBREVIATIONS  
 AND GENERAL NOTES**

PROJECT NO:	60240199
CAD DWG FILE:	00 C-001_RIDEM
DESIGNED BY:	C. SCHMITT
DRAWN BY:	W. BALETSA
DEPT CHECK:	C. BENZIGER
PROJ CHECK:	R. POGODZIENSKI
DATE:	JUNE 2012
SCALE:	AS NOTED
<b>00 C-001</b>	
SHEET	OF

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 ANS D - 26-Jun-12

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 ANS1 D - 26-Jun-12



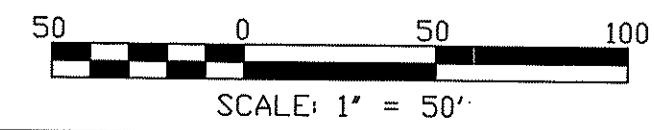
**PLAN**  
 SCALE: 1"=50'

**NOTES:**

- FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, SEE SHEET 00 C-001.
- INTERIM WATER STORAGE TANK TO BE INSTALLED, OPERATIONAL AND ACCEPTED PRIOR TO TAKING EXISTING 4MG RESERVOIR STORAGE OFF LINE. SEE SHEET 00 C-202.
- REMOVAL AND PROCESSING OF EXISTING 4MG RESERVOIR STORAGE TO OCCUR AFTER ACCEPTANCE OF INTERIM WATER STORAGE TANK.
- EXISTING PLANT TO REMAIN IN OPERATION UNTIL FINAL ACCEPTANCE OF NEW FACILITY BY THE CITY.
- PROVIDE TEMPORARY CONSTRUCTION ENTRANCES (CRUSHED STONE) AT ALL POINTS OF CONSTRUCTION EGRESS.
- THE EXTENT OF ARSENIC AT THIS SITE IS LIMITED TO THE AREAS NEAR BORINGS CDM-10 AND CDM-12. THE EXTENT OF ARSENIC SHALL BE INVESTIGATED AND THE CONTAMINATED SOIL SHALL BE REMEDIATED IN ACCORDANCE WITH THE CONTRACT.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESH WATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AUG 6 2012 FILE # 12-0109  
 THESE PLANS MUST BE AT CONSTRUCTION SITE

*Charles H. [Signature]*

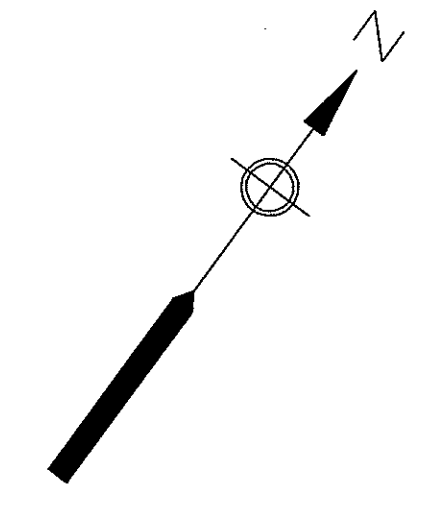
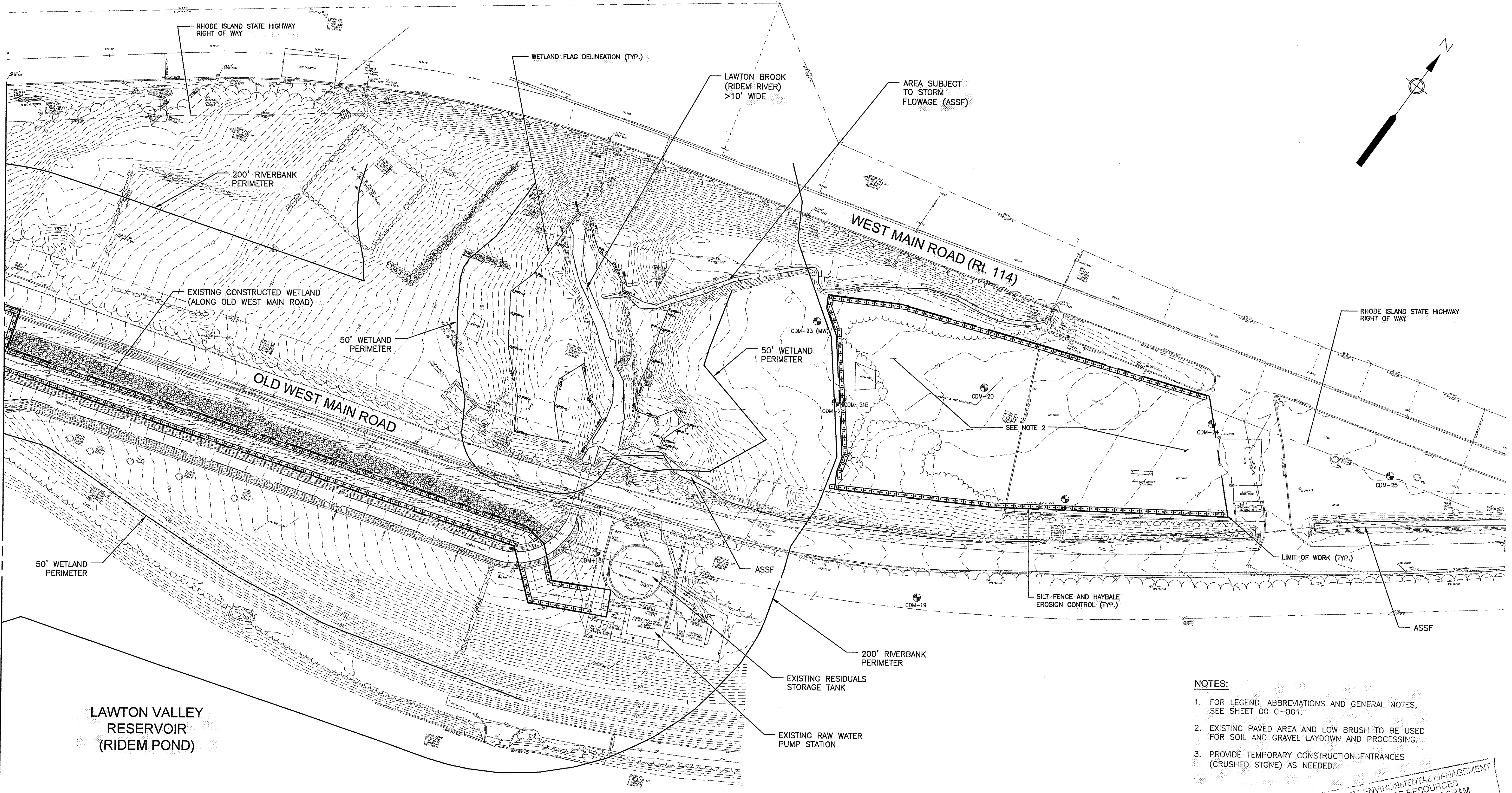


FOR CONTINUATION, SEE SHEET 00 C-102

<b>RIDEM PERMIT SUBMITTAL NOT FOR CONSTRUCTION</b>	
MARK	DATE
MADE BY	CHECKED
REVISIONS	DESCRIPTION
<b>AECOM</b> A Joint Venture	
CITY OF NEWPORT, RHODE ISLAND LAWTON VALLEY WATER TREATMENT FACILITY <b>EXISTING CONDITIONS, DEMOLITION AND EROSION CONTROL PLAN I</b> CIVIL	
PROJECT NO:	60240199
CAD DWG FILE:	00 C-101_RIDEM
DESIGNED BY:	C. SCHMITT
DRAWN BY:	W. BALETSA
DEPT CHECK:	C. BENZIGER
PROJ CHECK:	R. POGODZIENSKI
DATE:	JUNE 2012
SCALE:	AS NOTED
<b>00 C-101</b>	
SHEET OF	

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 ANSI D - 26-Jun-12

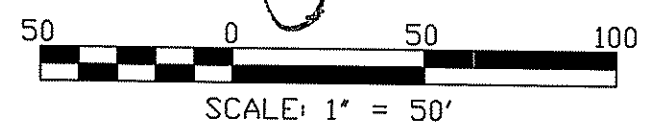
FOR CONTINUATION, SEE SHEET 00 C-101



- NOTES:**
1. FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, SEE SHEET 00 C-001.
  2. EXISTING PAVED AREA AND LOW BRUSH TO BE USED FOR SOIL AND GRAVEL LAYDOWN AND PROCESSING.
  3. PROVIDE TEMPORARY CONSTRUCTION ENTRANCES (CRUSHED STONE) AS NEEDED.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED AUG 6 2012 FILE # 12-0109  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Charles H. [Signature]*

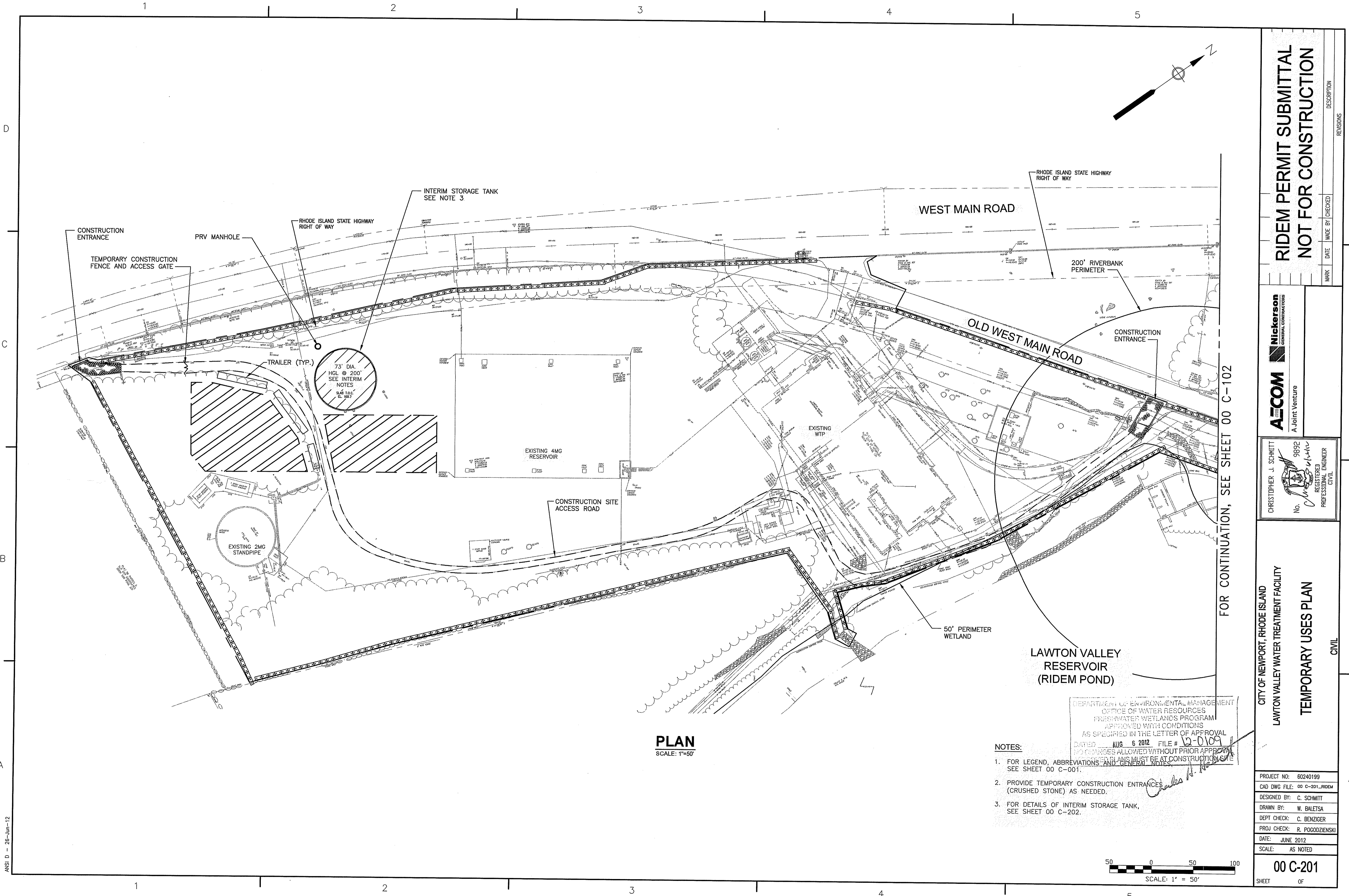


**PLAN**  
SCALE: 1"=50'

<b>RIDEM PERMIT SUBMITTAL</b> <b>NOT FOR CONSTRUCTION</b>		MARK	DATE	MADE BY	CHECKED	DESCRIPTION
  A Joint Venture						
CITY OF NEWPORT, RHODE ISLAND LAWTON VALLEY WATER TREATMENT FACILITY <b>EXISTING CONDITIONS DEMOLITION AND EROSION CONTROL PLAN II</b> CIVIL						
PROJECT NO: 60240199 CAD DWG FILE: 00 C-102_RIDEM		DESIGNED BY: C. SCHMITT DRAWN BY: W. BALETSA DEPT CHECK: C. BENZIGER PROJ CHECK: R. POGODZIENSKI DATE: JUNE 2012 SCALE: AS NOTED				
SHEET 00 C-102		OF				



PATY/FILENAME: C:\PROJ-TEMP\NEWPORT WTP DE WORKING CADD\LAWTON VALLEY\_WORKING TO UPDATE TO SYSTEM RIDEM PERMIT\00 C-201\_RIDEM.DWG  
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 ANSI D - 28-Jun-12

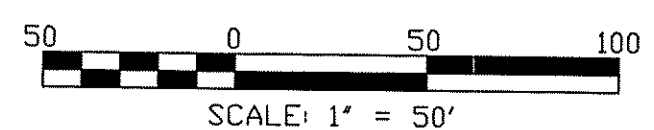


**PLAN**  
 SCALE: 1"=50'

**NOTES:**

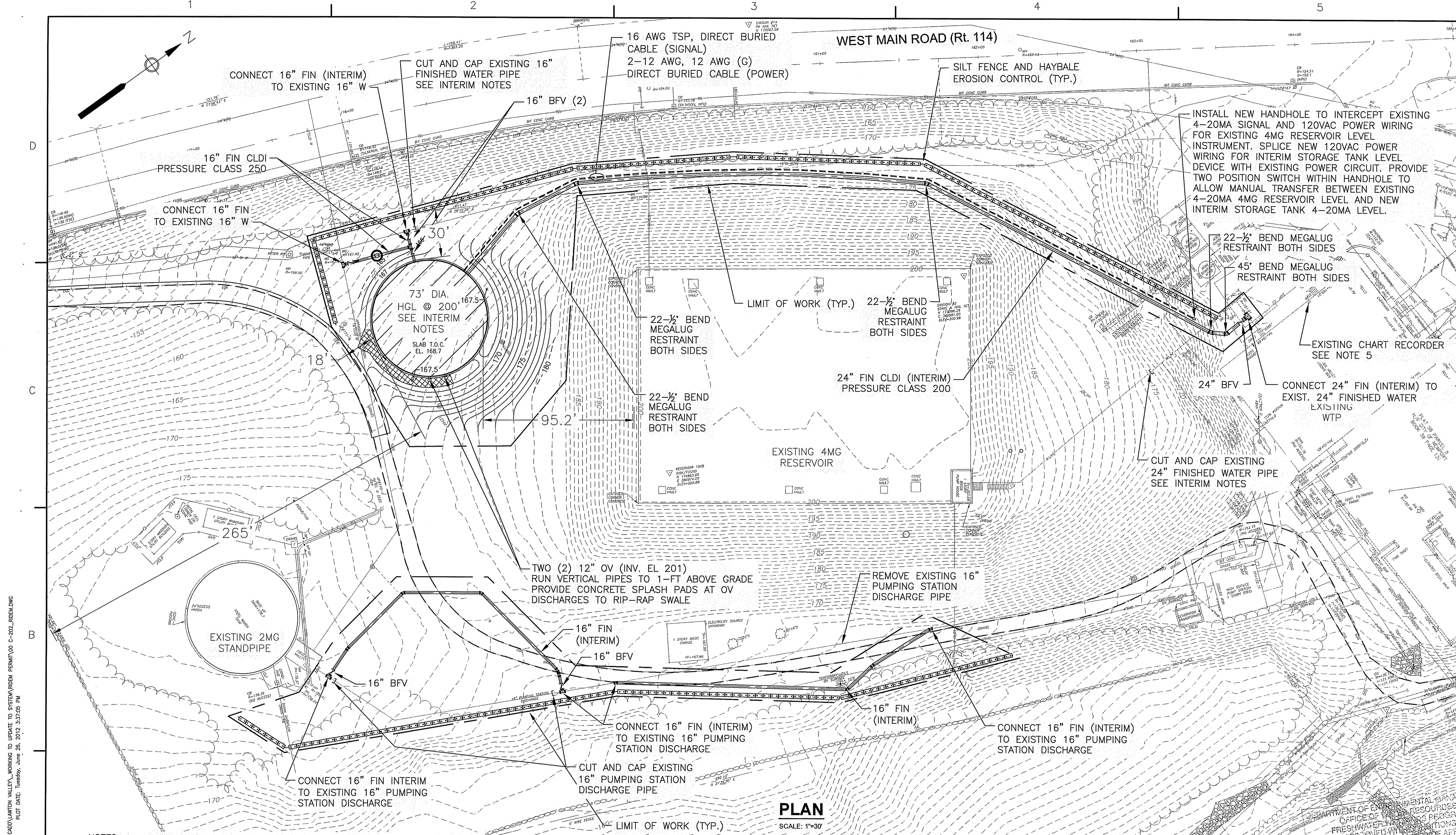
1. FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, SEE SHEET 00 C-001.
2. PROVIDE TEMPORARY CONSTRUCTION ENTRANCES (CRUSHED STONE) AS NEEDED.
3. FOR DETAILS OF INTERIM STORAGE TANK, SEE SHEET 00 C-202.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED AUG 6 2012 FILE # 12-0109  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 MATCHED PLANS MUST BE AT CONSTRUCTION SITE



FOR CONTINUATION, SEE SHEET 00 C-102

<b>ATCOM</b> A Joint Venture 		MARK DATE MADE BY CHECKED	DESCRIPTION REVISIONS
		<b>RIDEM PERMIT SUBMITTAL          NOT FOR CONSTRUCTION</b>	
CITY OF NEWPORT, RHODE ISLAND LAWTON VALLEY WATER TREATMENT FACILITY <b>TEMPORARY USES PLAN</b> CIVIL		PROJECT NO: 60240199 CAD DWG FILE: 00 C-201_RIDEM DESIGNED BY: C. SCHMITT DRAWN BY: W. BALETSA DEPT CHECK: C. BENZIGER PROJ CHECK: R. POGODZIENSKI DATE: JUNE 2012 SCALE: AS NOTED	
CHRISTOPHER J. SCHMITT No. 9892  REGISTERED PROFESSIONAL ENGINEER CIVIL		<b>00 C-201</b> SHEET OF	



**PLAN**  
SCALE: 1"=30'

**NOTES:**  
**INTERIM TANK - TESTING:**

1. FILL TANK WITH POTABLE WATER AND ALLOW TANK TO SIT FOR 48-HOURS. CHECK FOR LEAKS AND CORRECT OR REPAIR ANY LEAKING AREAS.

**INTERIM TANK - DISINFECTION AND FLUSHING:**

1. DISINFECT TANK AND CONNECTING PIPING WITH CHLORINE NOT SOONER THAN SEVEN DAYS AFTER COMPLETION OF ALL WORK BUT BEFORE TANK IS PLACED IN OPERATION.
2. METHOD OF DISINFECTION SHALL CONFORM TO AWWA C652 - METHOD NO. 3.
3. DISINFECT TANK AND CONNECTING PIPING FROM THE NEAREST VALVE WITH CHLORINE. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE INTERIOR OF THE TANK PRIOR TO DISINFECTION AND BEFORE THE TANK IS PLACED IN SERVICE.

**INTERIM PIPELINE - TESTING:**

1. CONDUCT COMBINED PRESSURE AND LEAKAGE TEST IN PIPELINES USING PROCEDURES CONFORMING TO AWWA C600.
2. FILL SECTION OF PIPE WITH WATER AND MAINTAIN FULL FOR ONE (1) HOUR AT 75psi.
3. PIPELINE CONSIDERED ACCEPTABLE IF NO MORE THAN 2psi. DROP OVER TEST.

**INTERIM PIPELINE - DISINFECTION AND FLUSHING:**

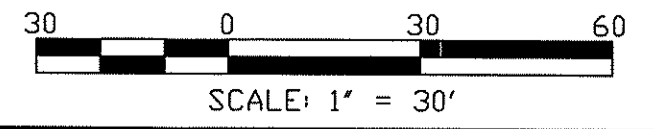
1. DISINFECT POTABLE WATERLINES USING PROCEDURES AND MATERIALS CONFORMING TO AWWA C651.

**INTERIM TANK NOTES:**

1. PROPOSED 1MG INTERIM WATER STORAGE TANK TO BE A BOLTED STEEL, EPOXY-COATED TANK, INSTALLED, OPERATIONAL AND ACCEPTED PRIOR TO TAKING EXISTING 4MG RESERVOIR STORAGE OFF LINE PER AWWA D-103.
2. REMOVAL AND PROCESSING OF EXISTING 4MG RESERVOIR STORAGE AND ASSOCIATED PIPING AND APPURTENANCES TO OCCUR AFTER ACCEPTANCE OF INTERIM WATER STORAGE TANK.
3. PLANS AN ELEVATIONS FOR INTERIM WATER STORAGE TANK PROVIDED BY THE TANK MANUFACTURER, AS ATTACHED.

**INTERIM TANK NOTES ( CONTINUED)**

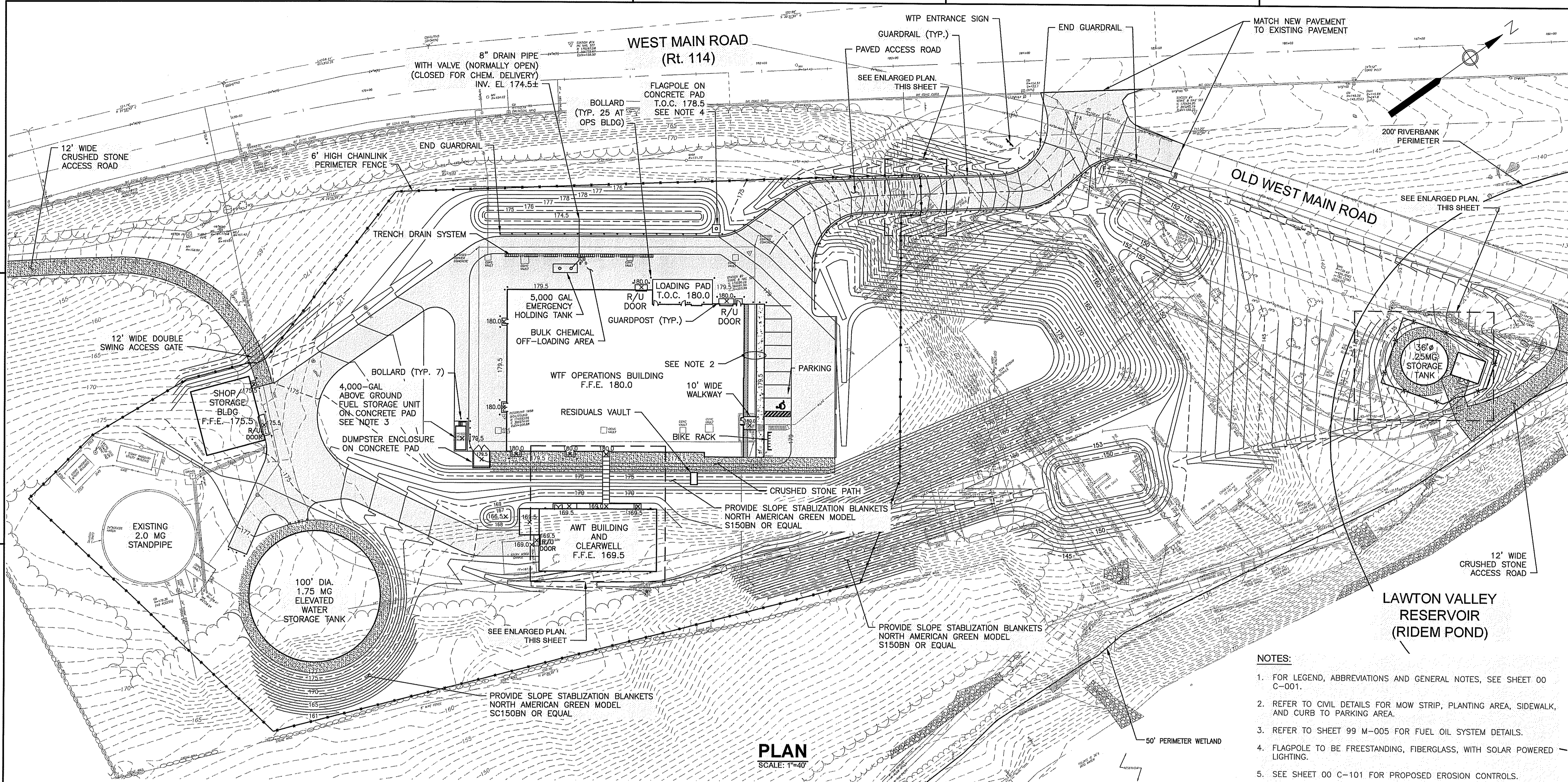
4. INTERIM WATER STORAGE TANK FOUNDATION DESIGN SHALL BE APPROVED BY THE TANK MANUFACTURER.
5. UTILIZE AN EXISTING AUXILIARY OUTPUT CONTACT ON THE RESERVOIR CHART RECORDER FOR A HIGH LEVEL ALARM. PROVIDE AN AUDIBLE ALARM WHICH SHALL SOUND ON HIGH LEVEL TO NOTIFY PLANT OPERATORS.
6. PROVIDE 16" HYDRAULICALLY OPERATED PRESSURE REDUCING VALVE FOR FLOW OF 200 TO 3,500 GPM, INLET PRESSURE OF 34 TO 39 PSI, AND OUTLET PRESSURE OF 13 TO 17 PSI.



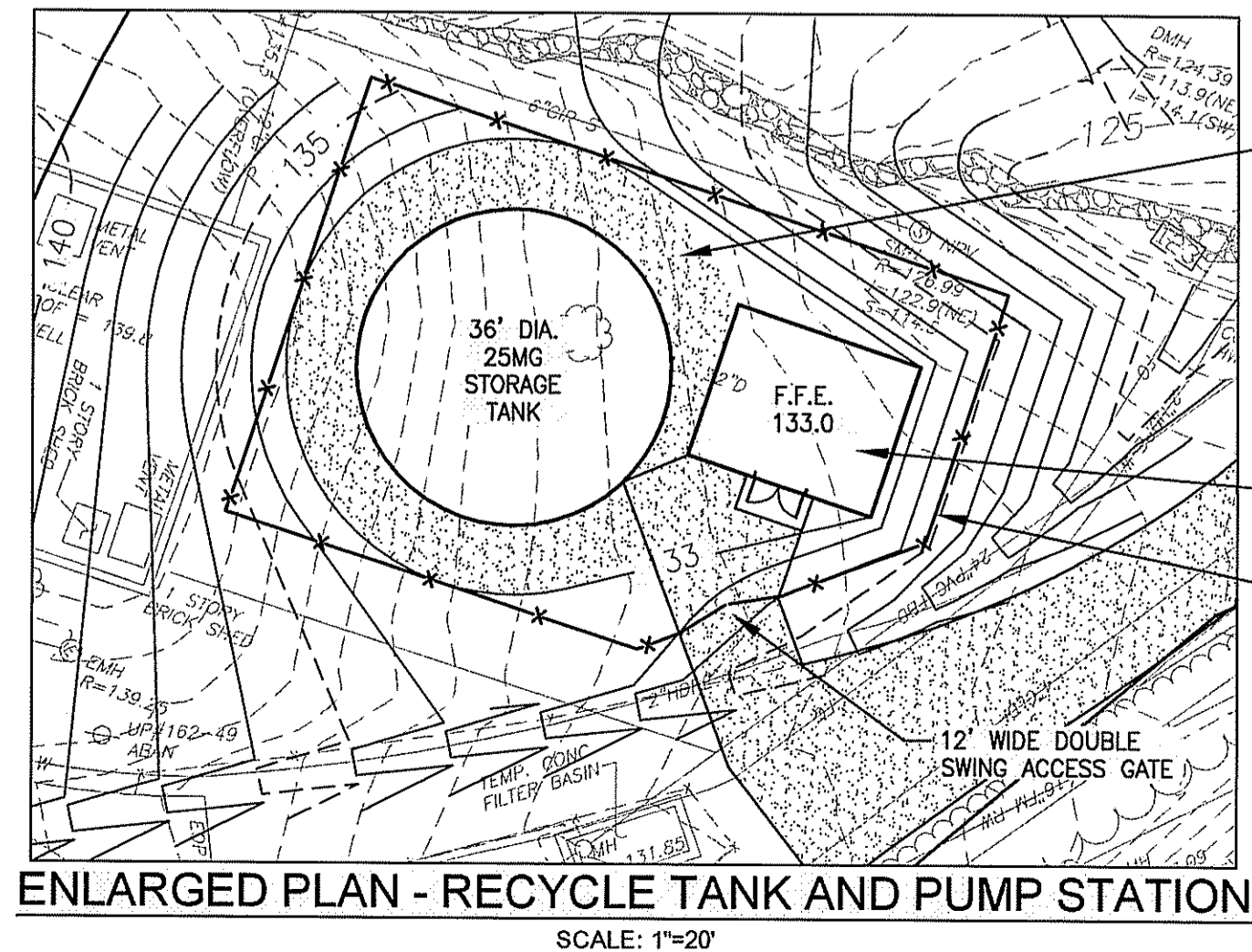
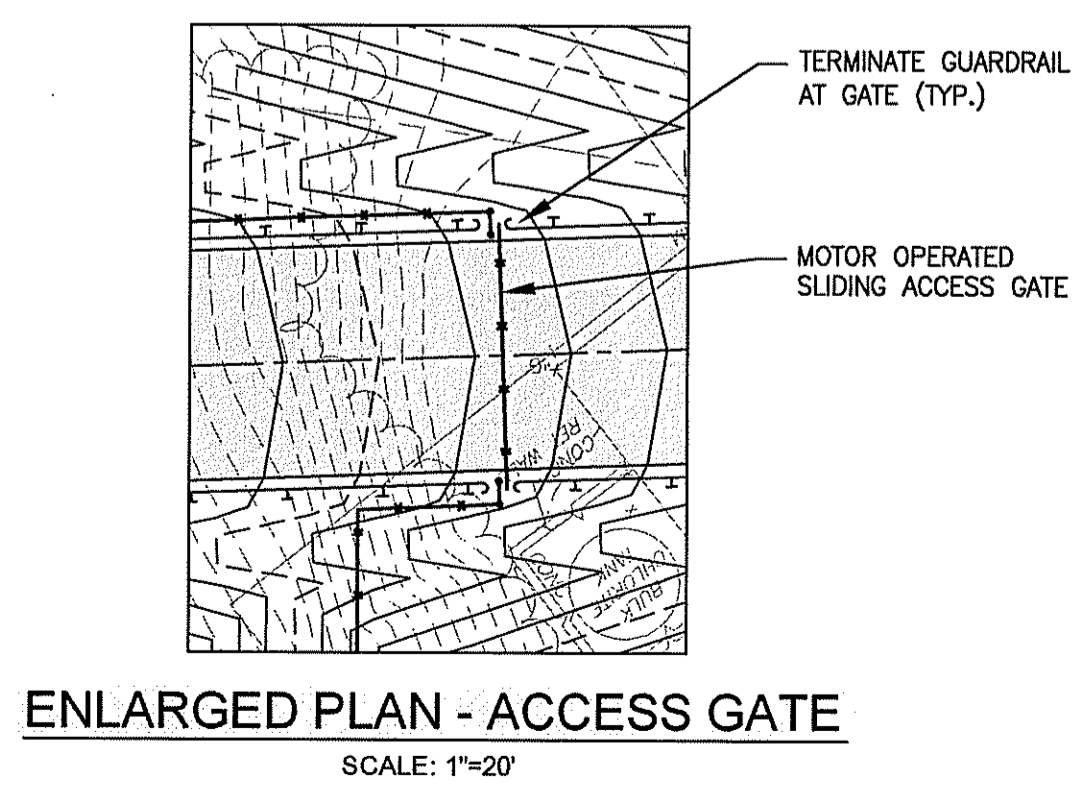
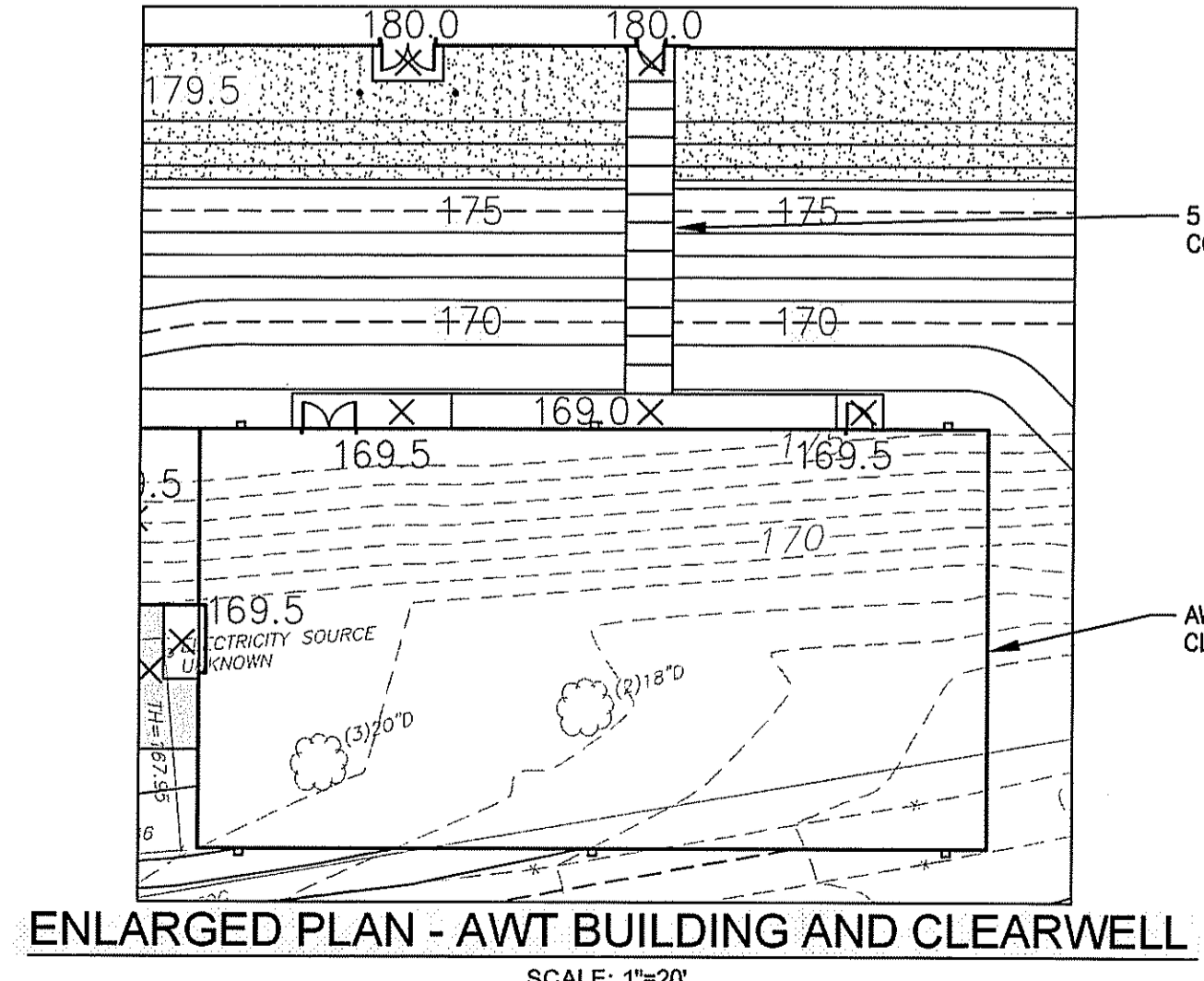
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 LAST UPDATE: Tuesday, June 26, 2012 1:35:09 PM  
 ANSI D - 26-Jun-12

<p><b>RIDEM PERMIT SUBMITTAL</b> <b>NOT FOR CONSTRUCTION</b></p>	<p>REVISIONS</p> <p>MARK DATE MADE BY CHECKED</p>
<p><b>Nickerson</b> GENERAL CONTRACTORS</p> <p><b>ACOM</b> A Joint Venture</p>	
<p>CHRISTOPHER J. SCHMITT 9892 REGISTERED PROFESSIONAL ENGINEER CIVIL</p>	
<p>CITY OF NEWPORT, RHODE ISLAND LAWTON VALLEY WATER TREATMENT FACILITY <b>INTERIM WATER STORAGE TANK AND INTERIM PIPING PLAN</b></p>	
<p>DEPARTMENT OF ENVIRONMENTAL TANKS OFFICE OF WATER RESOURCES FRESHWATER DIVISION APPROVED WITH COMMENTS SPECIFIED IN THE PERMIT APP ROVAL DATED AUG 6 2012 FILE # 12-0109 APPROVED FOR CONSTRUCTION</p>	
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<p><b>00 C-202</b> SHEET OF</p>	

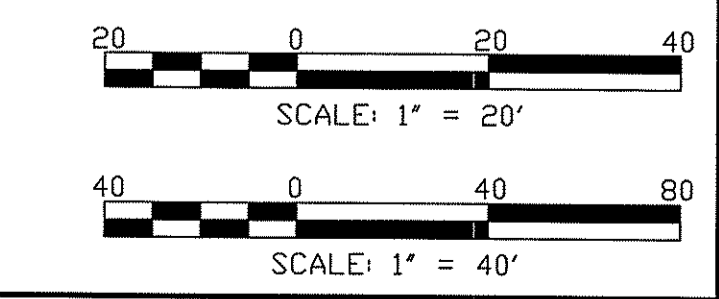
1 2 3 4 5  
 D  
 C  
 B  
 A  
 ANS D - 26-Jun-12  
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 LAST UPDATE: Tuesday, June 26, 2012 1:37:01 PM  
 PLOT DATE: Tuesday, June 26, 2012 3:37:42 PM



**PLAN**  
 SCALE: 1"=40'



- NOTES:**
- FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, SEE SHEET 00 C-001.
  - REFER TO CIVIL DETAILS FOR MOW STRIP, PLANTING AREA, SIDEWALK, AND CURB TO PARKING AREA.
  - REFER TO SHEET 99 M-005 FOR FUEL OIL SYSTEM DETAILS.
  - FLAGPOLE TO BE FREESTANDING, FIBERGLASS, WITH SOLAR POWERED LIGHTING.
  - SEE SHEET 00 C-101 FOR PROPOSED EROSION CONTROLS.



**RIDEM PERMIT SUBMITTAL  
 NOT FOR CONSTRUCTION**

MARK DATE MADE BY CHECKED REVISIONS

**AECOM**  
 A Joint Venture

**Nickerson**  
 GENERAL CONTRACTORS

CHRISTOPHER J. SCHMITT  
 No. 9892  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL

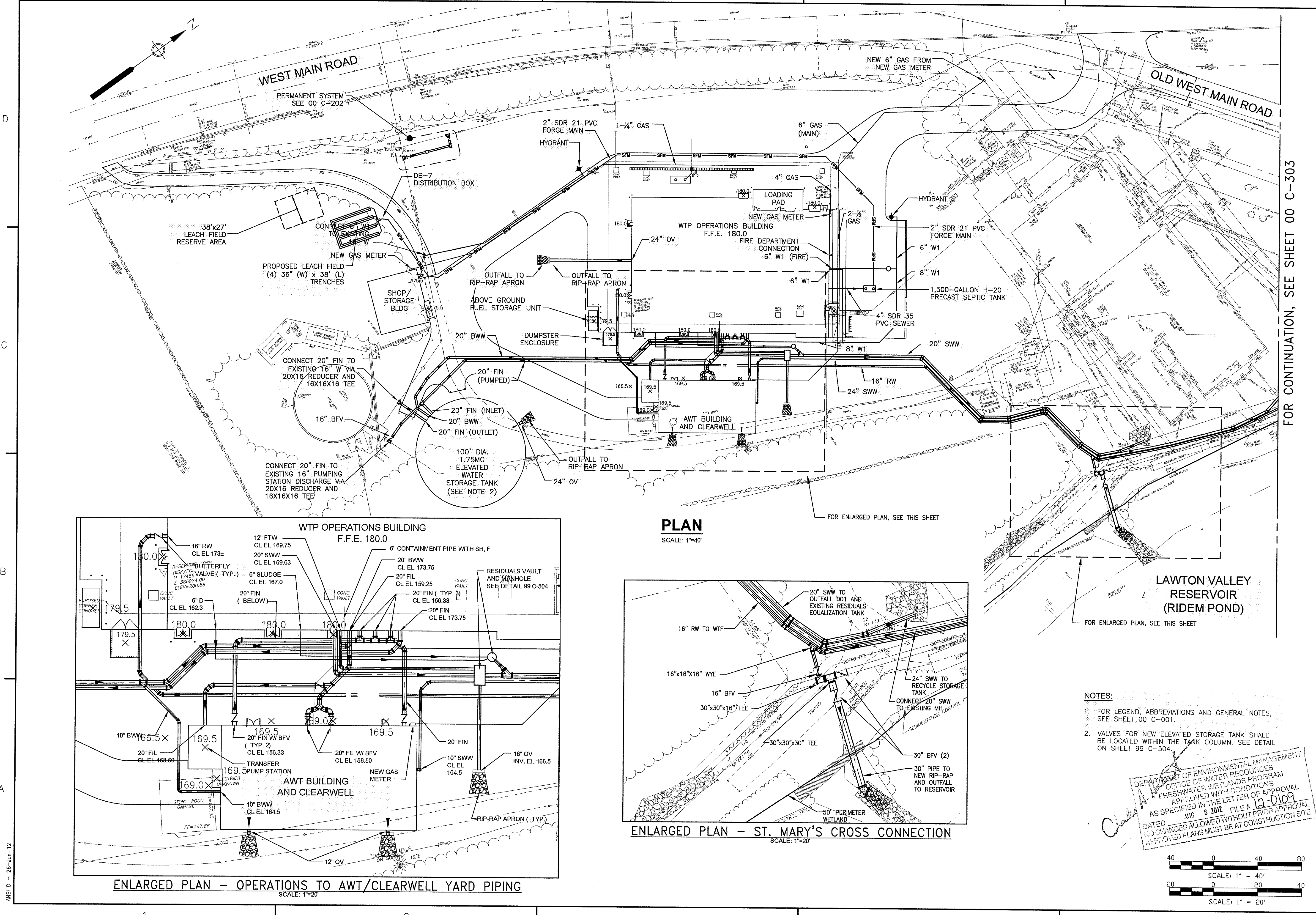
GITY OF NEWPORT, RHODE ISLAND  
 LAWTON VALLEY WATER TREATMENT FACILITY  
**SITE PLAN**  
 CIVIL

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 AUG 6 2012 FILE # 12-0109  
 SPENT WASHWATER OWNED WITHOUT PRIOR APPROVAL  
 RECYCLE PUMP STATION MUST BE AT CONSTRUCTION SITE

PROJECT NO: 60240199  
 CAD DWG FILE: 00\_C-301\_RIDEM  
 DESIGNED BY: C. SCHMITT  
 DRAWN BY: W. BALETSA  
 DEPT CHECK: C. BENZIGER  
 PROJ CHECK: R. POGODZIENSKI  
 DATE: JUNE 2012  
 SCALE: AS NOTED

**00 C-301**  
 SHEET OF

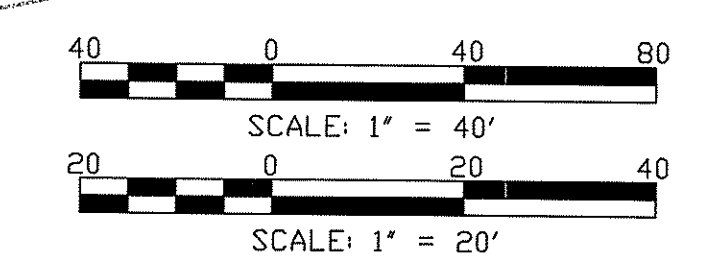
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 ANS D - 26-JUN-12



**NOTES:**

- FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, SEE SHEET 00 C-001.
- VALVES FOR NEW ELEVATED STORAGE TANK SHALL BE LOCATED WITHIN THE TANK COLUMN. SEE DETAIL ON SHEET 99 C-504.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED AUG 6 2012 FILE # 12-0109  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

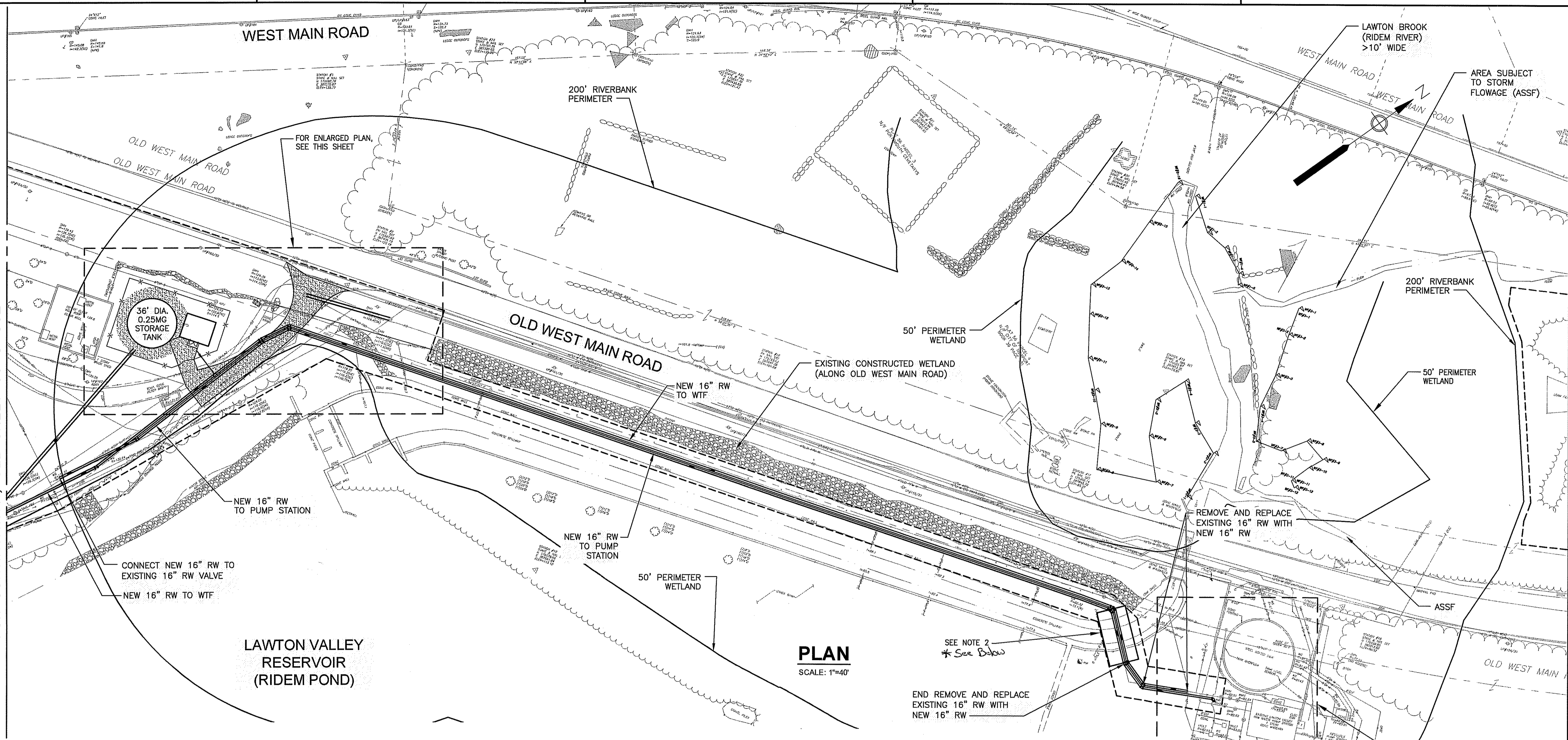


FOR CONTINUATION, SEE SHEET 00 C-303

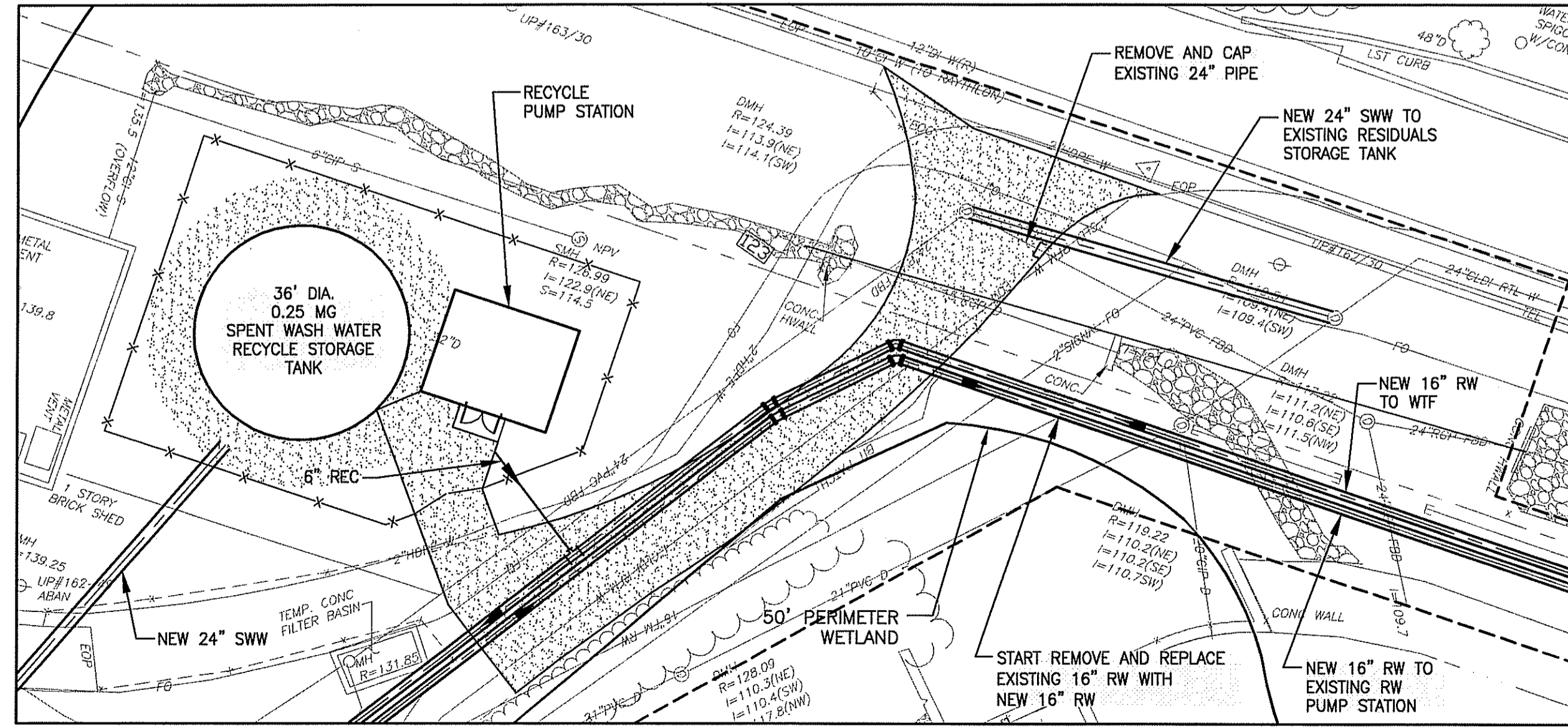
<b>00 C-302</b>	
SHEET OF	
CIVIL	
<b>YARD PIPING PLAN I</b>	
LAWTON VALLEY WATER TREATMENT FACILITY	
CITY OF NEWPORT, RHODE ISLAND	
  A Joint Venture	
CHRISTOPHER J. SCHMITT No. 9892 REGISTERED PROFESSIONAL ENGINEER CIVIL	
<b>RIDEM PERMIT SUBMITTAL</b> <b>NOT FOR CONSTRUCTION</b>	REVISIONS MARK DATE MADE BY CHECKED
PROJECT NO: 60240199 CAD DWG FILE: 00 C-302 RIDEM DESIGNED BY: C. SCHMITT DRAWN BY: W. BALETSA DEPT CHECK: C. BENZIGER PROJ CHECK: R. POGODZIENSKI DATE: JUNE 2012 SCALE: AS NOTED	

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 ANS D - 26-Jun-12

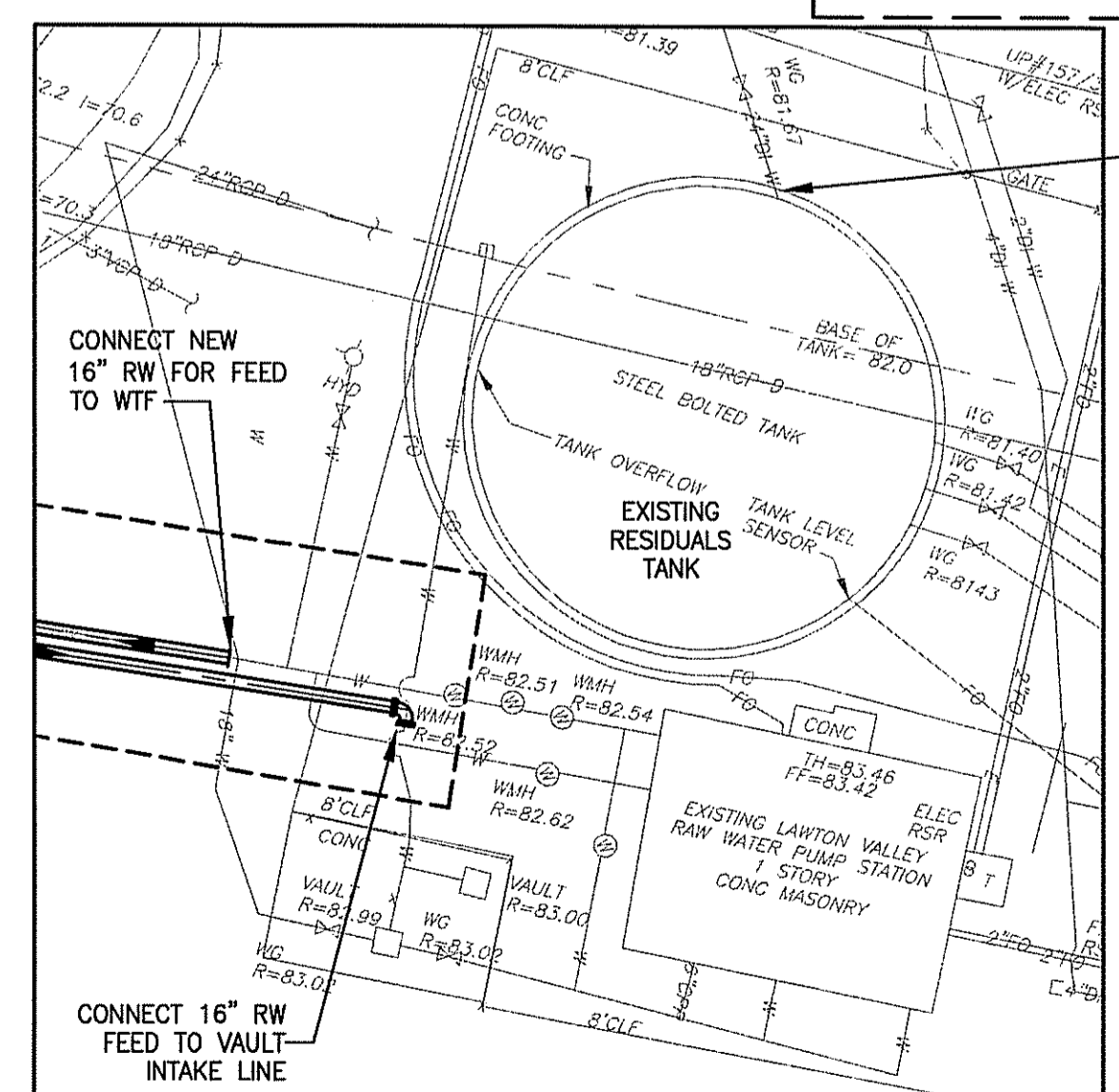
FOR CONTINUATION, SEE SHEET 00 C-302



**PLAN**  
SCALE: 1"=40'



**ENLARGED PLAN  
RECYCLE TANK AND PUMP STATION**  
SCALE: 1"=20'

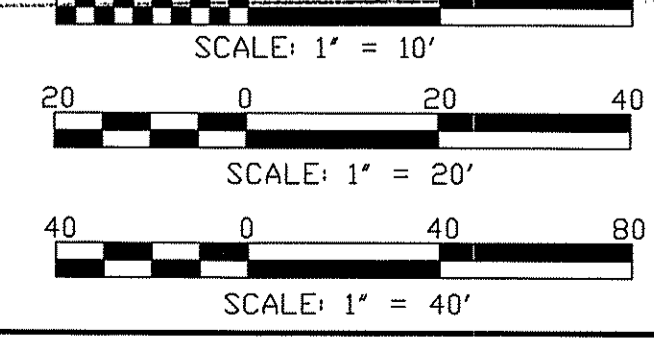


**ENLARGED PLAN - EXISTING RESIDUALS TANK AND  
CONNECTION TO EXISTING RW PUMP STATION**  
SCALE: 1"=20'

*\* Proper river diversion techniques must be utilized if the river concrete spillway is flowing during installation of the 16" river main pipes.*

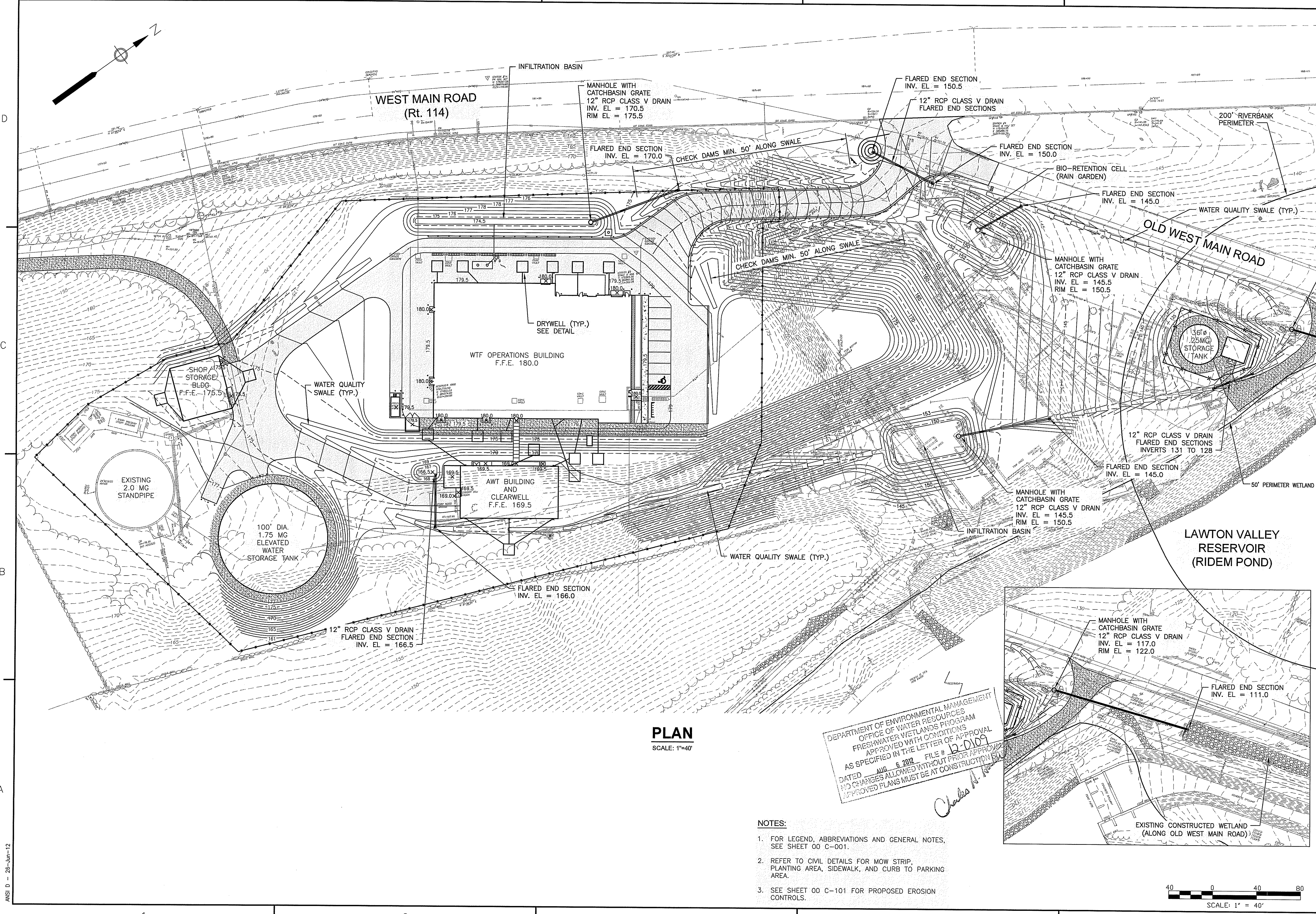
**NOTES:**

- FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, SEE SHEET 00 C-001.
  - EXISTING DETERIORATED CONCRETE SECTIONS IN THIS AREA WILL BE REMOVED TO FACILITATE INSTALLATION OF NEW PIPES UNDER SPILLWAY. AFTER INSTALL OF PIPING, NEW REPLACEMENT CONCRETE SECTIONS WILL BE INSTALLED.
- DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED AUG 6 2012 FILE # 12-0109  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



<b>RIDEM PERMIT SUBMITTAL NOT FOR CONSTRUCTION</b>		DESCRIPTION REVISIONS
DATE MADE BY CHECKED		
<b>AECOM</b> A Joint Venture	<b>Nickerson</b> GENERAL CONTRACTORS	
CHRISTOPHER J. SCHMITT No. 9992 REGISTERED PROFESSIONAL ENGINEER CIVIL		
CITY OF NEWPORT, RHODE ISLAND LAWTON VALLEY WATER TREATMENT FACILITY <b>YARD PIPING PLAN II</b>		
PROJECT NO: 60240199 CAD DWG FILE: 00 C-303_RIDEM		
DESIGNED BY: C. SCHMITT		
DRAWN BY: W. BALETSA		
DEPT CHECK: C. BENZIGER		
PROJ CHECK: R. POGODZIENSKI		
DATE: JUNE 2012		
SCALE: AS NOTED		
<b>00 C-303</b>		
SHEET OF		

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 ANS I D - 26-Jun-12

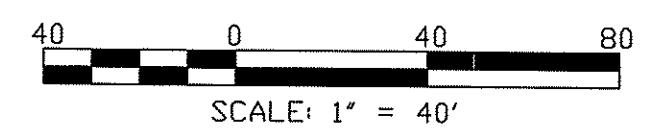


**PLAN**  
 SCALE: 1"=40'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED AUG 6 2012 FILE # 12-D109  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
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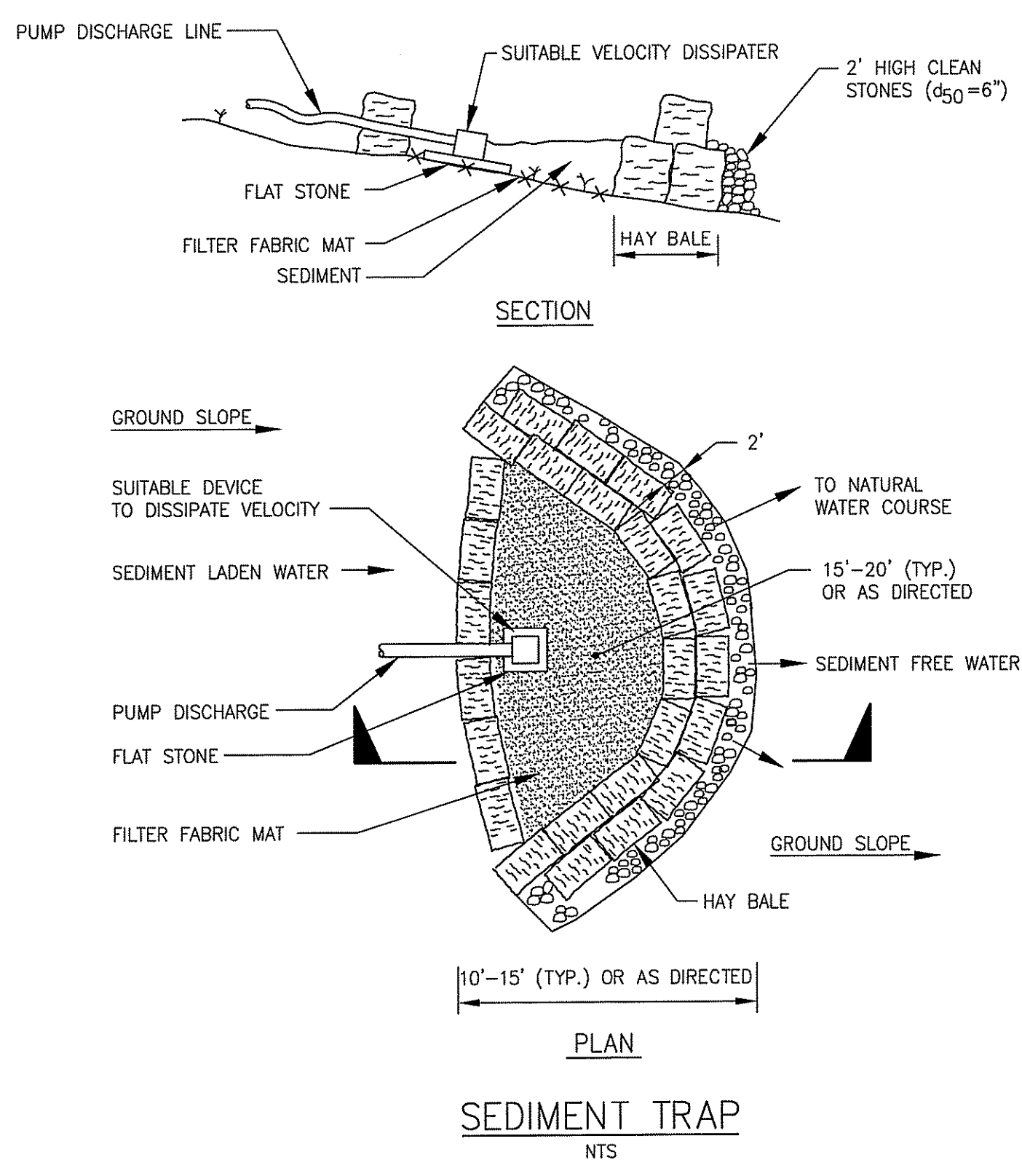
*Charles N. [Signature]*

- NOTES:**
- FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, SEE SHEET 00 C-001.
  - REFER TO CIVIL DETAILS FOR MOW STRIP, PLANTING AREA, SIDEWALK, AND CURB TO PARKING AREA.
  - SEE SHEET 00 C-101 FOR PROPOSED EROSION CONTROLS.

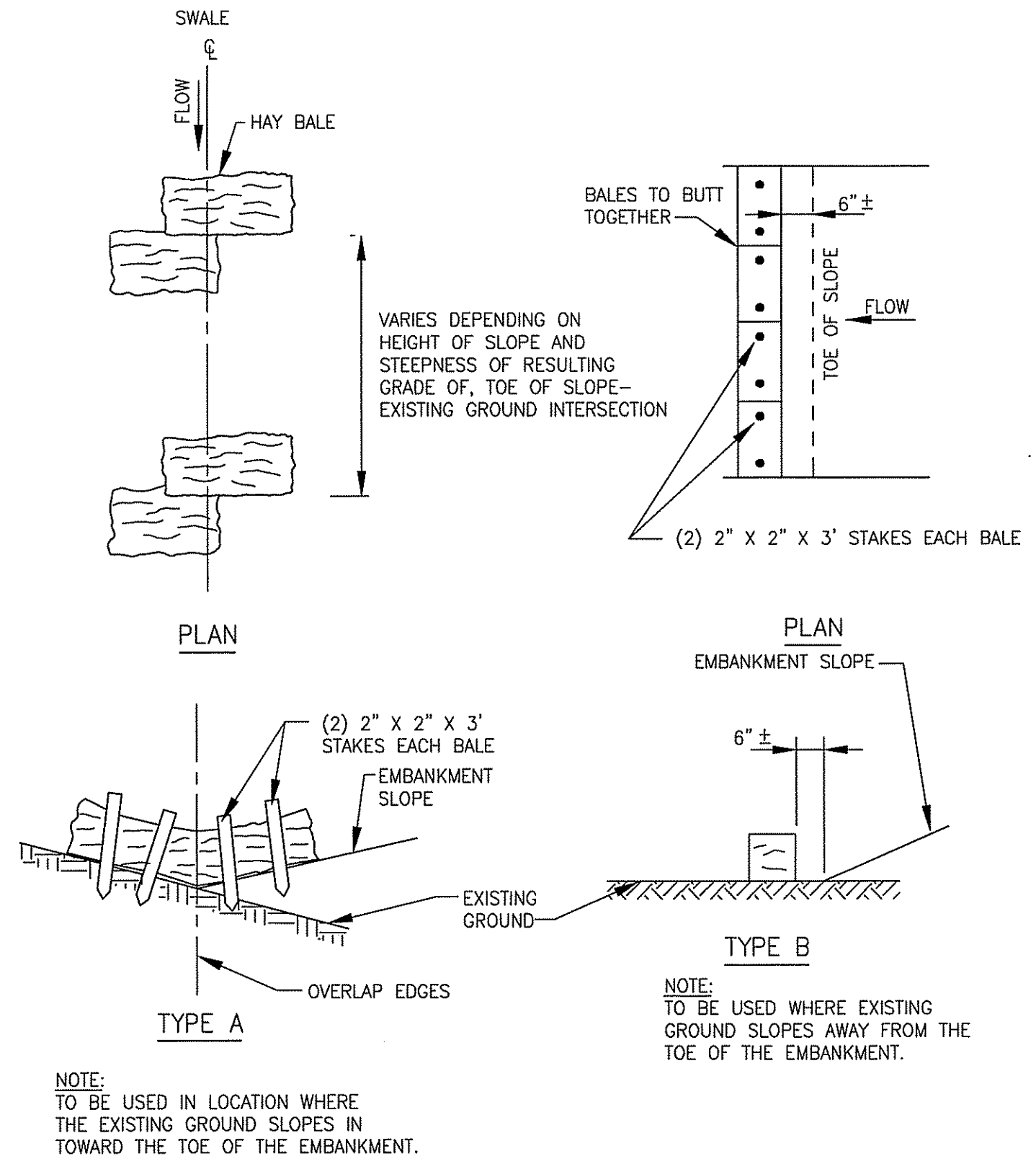


<b>RIDEM PERMIT SUBMITTAL</b> <b>NOT FOR CONSTRUCTION</b>		REVISIONS
		MARK DATE MADE BY CHECKED
  A Joint Venture		DESCRIPTION
CHRISTOPHER J. SCHMITT No. 9892  REGISTERED PROFESSIONAL ENGINEER CIVIL		
CITY OF NEWPORT, RHODE ISLAND LAWTON VALLEY WATER TREATMENT FACILITY <b>STORMWATER PLAN</b> CIVIL		
PROJECT NO:	60240199	
CAD DWG FILE:	00 C-304_RIDEM	
DESIGNED BY:	C. SCHMITT	
DRAWN BY:	W. BALETSA	
DEPT CHECK:	C. BENZIGER	
PROJ CHECK:	R. POGODZIENSKI	
DATE:	JUNE 2012	
SCALE:	AS NOTED	
<b>00 C-304</b> SHEET OF		

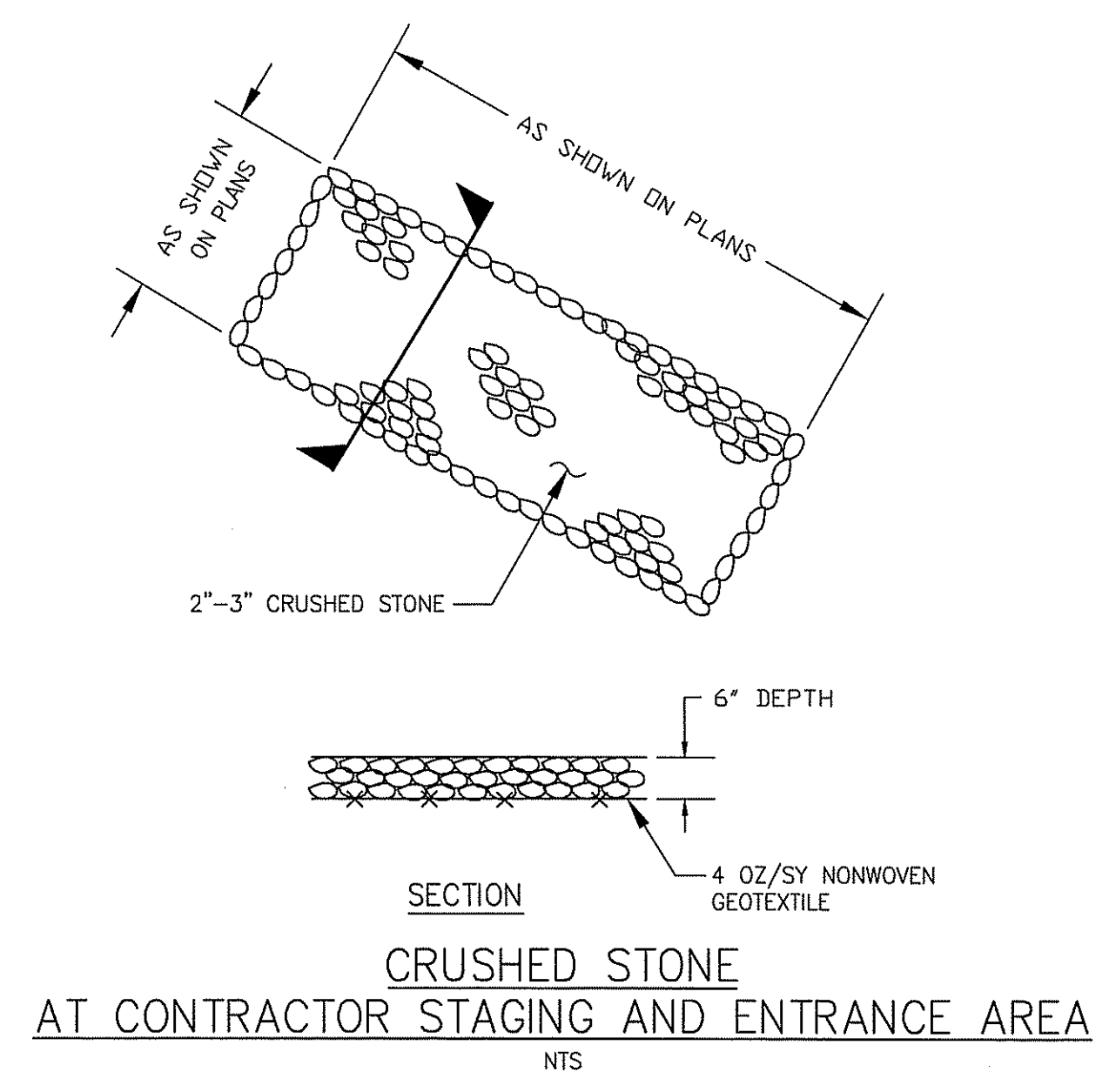
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 ANSI D - 28-Jun-12



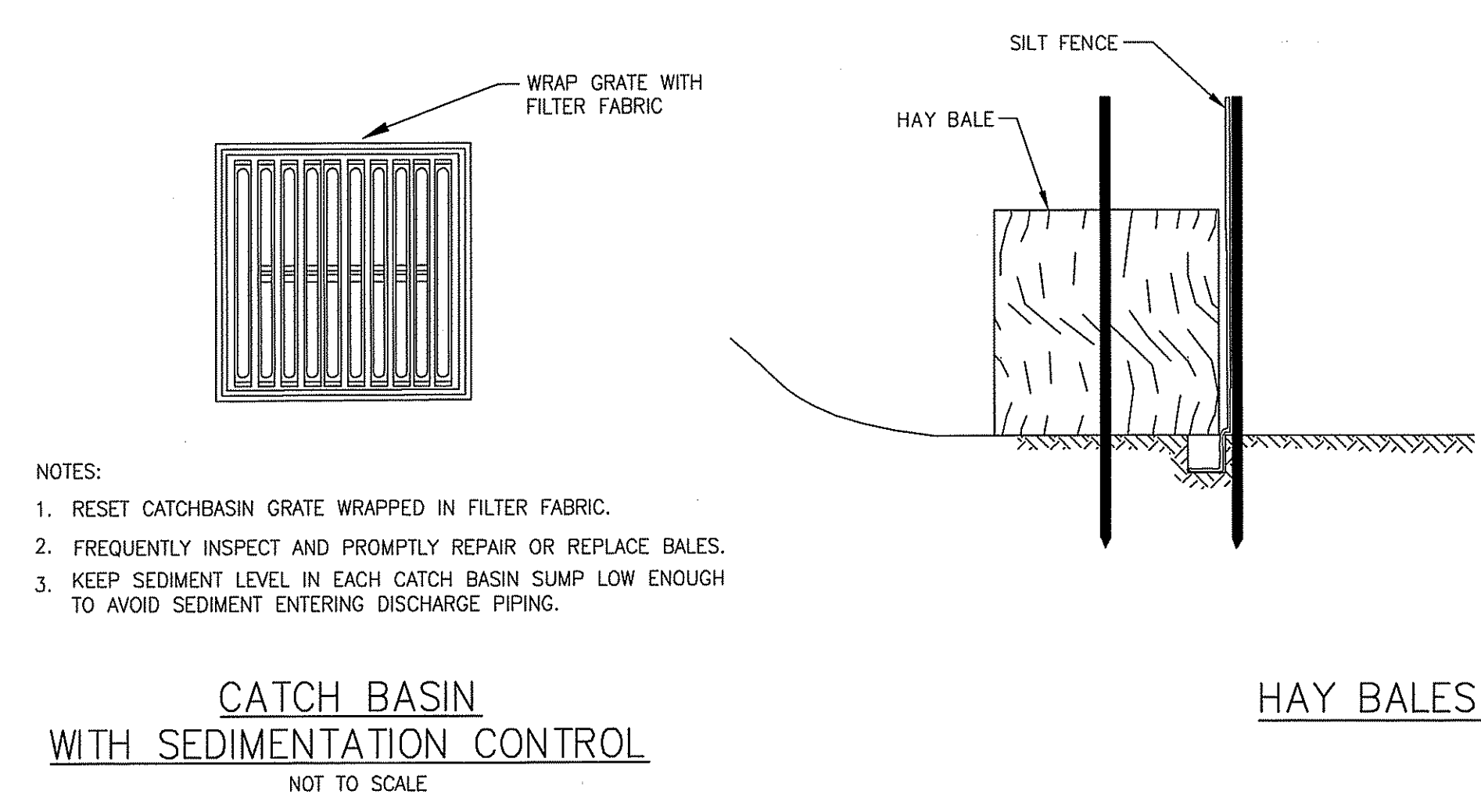
**SEDIMENT TRAP**  
NTS



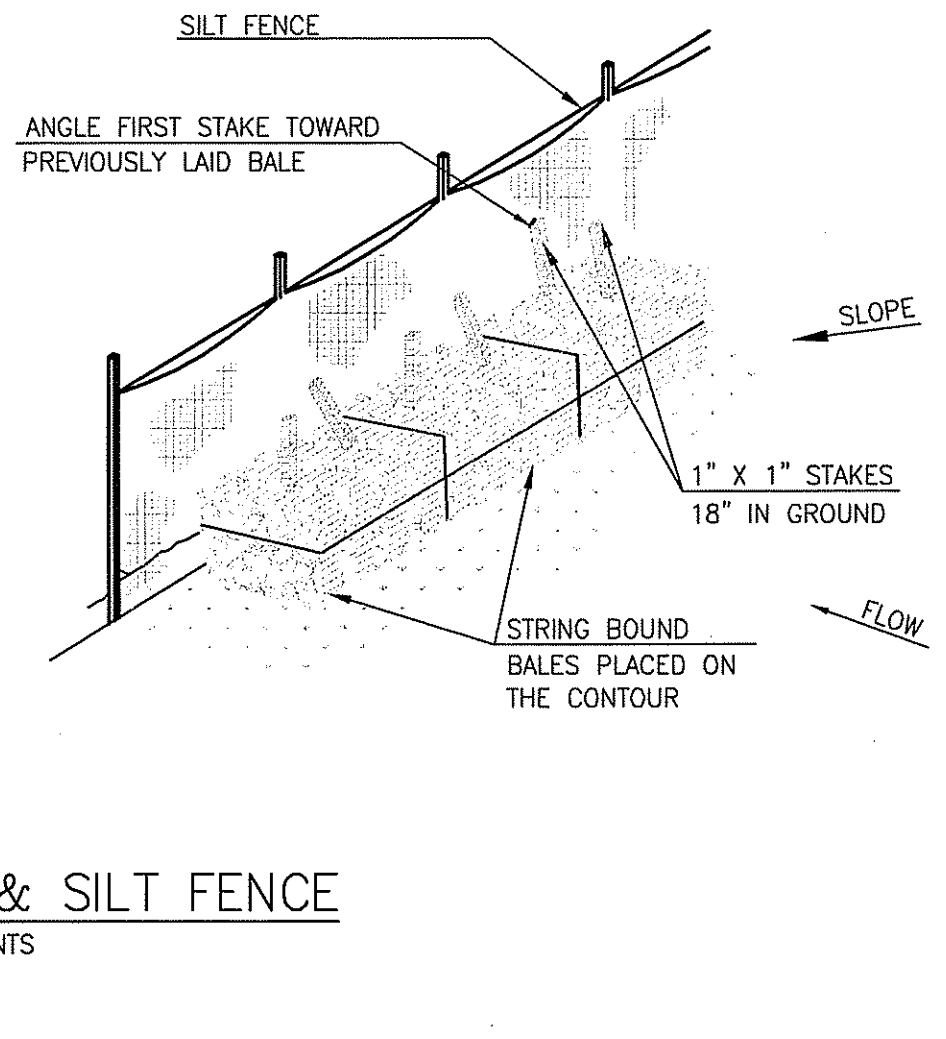
**HAY BALE EROSION CONTROL**  
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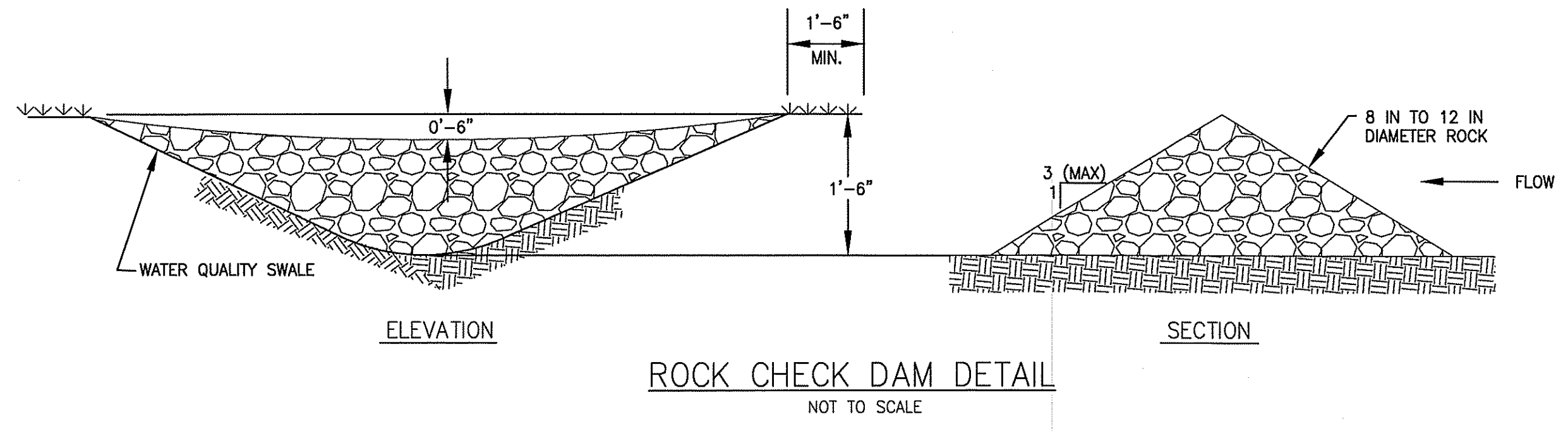
**CRUSHED STONE AT CONTRACTOR STAGING AND ENTRANCE AREA**  
NTS



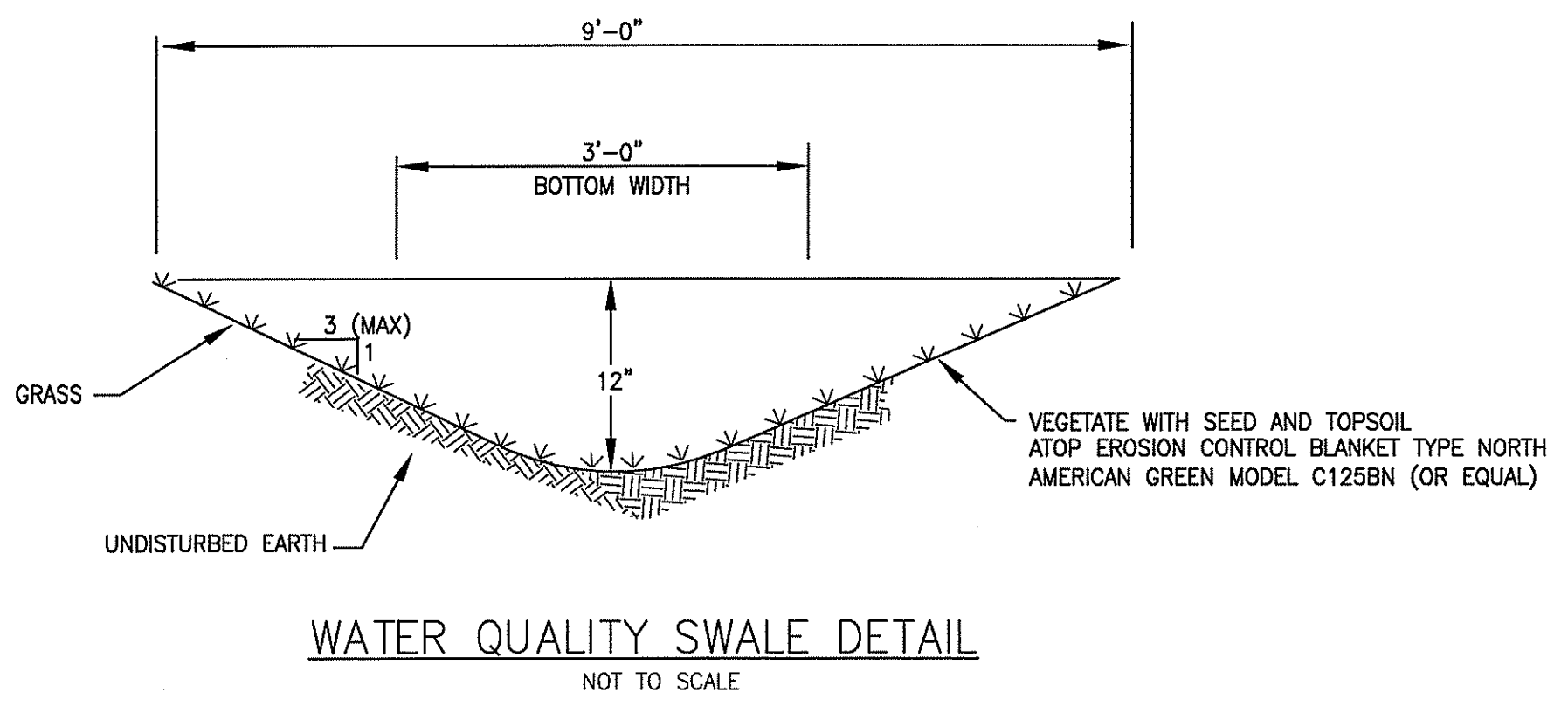
**CATCH BASIN WITH SEDIMENTATION CONTROL**  
NOT TO SCALE



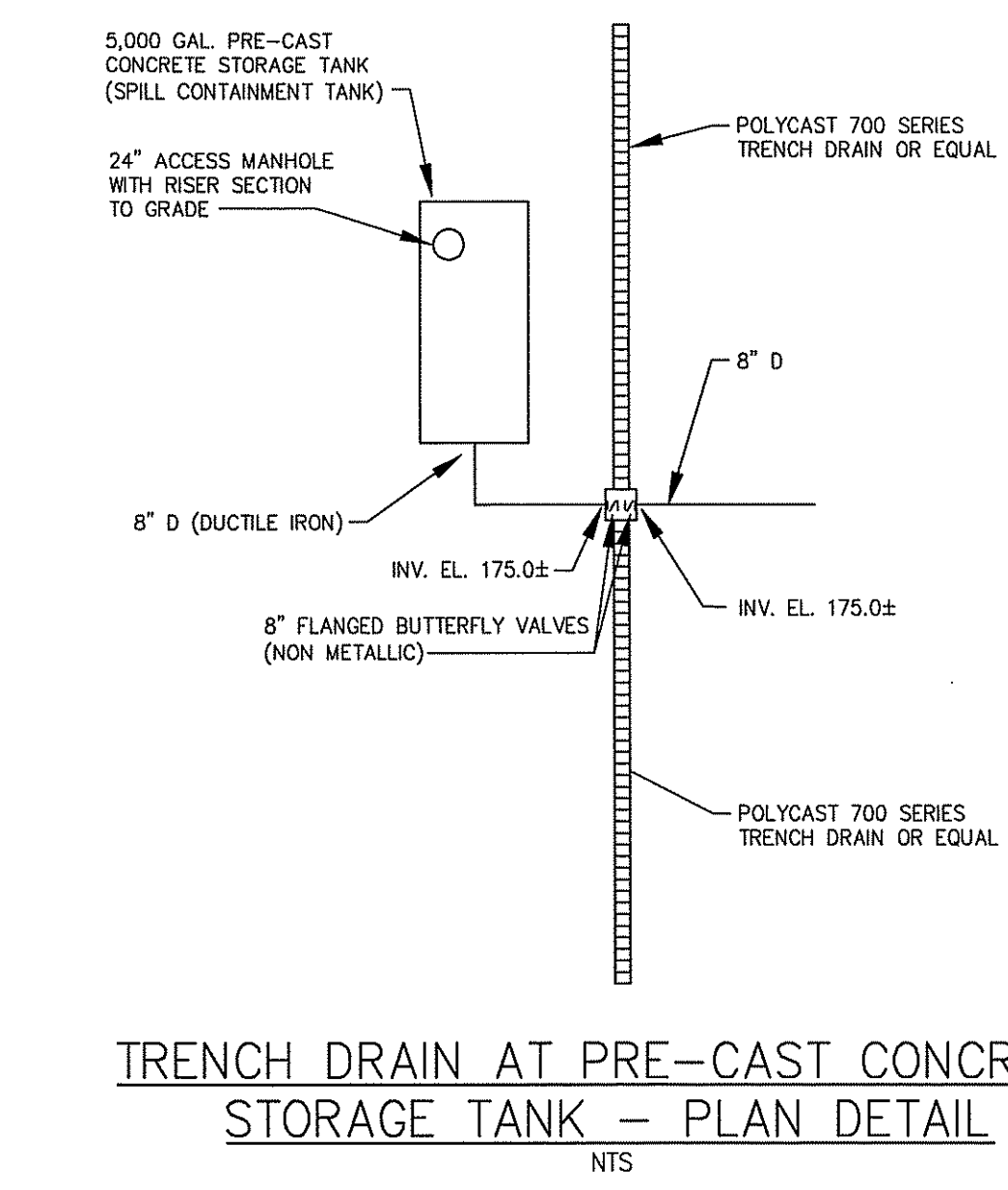
**HAY BALES & SILT FENCE**  
NTS



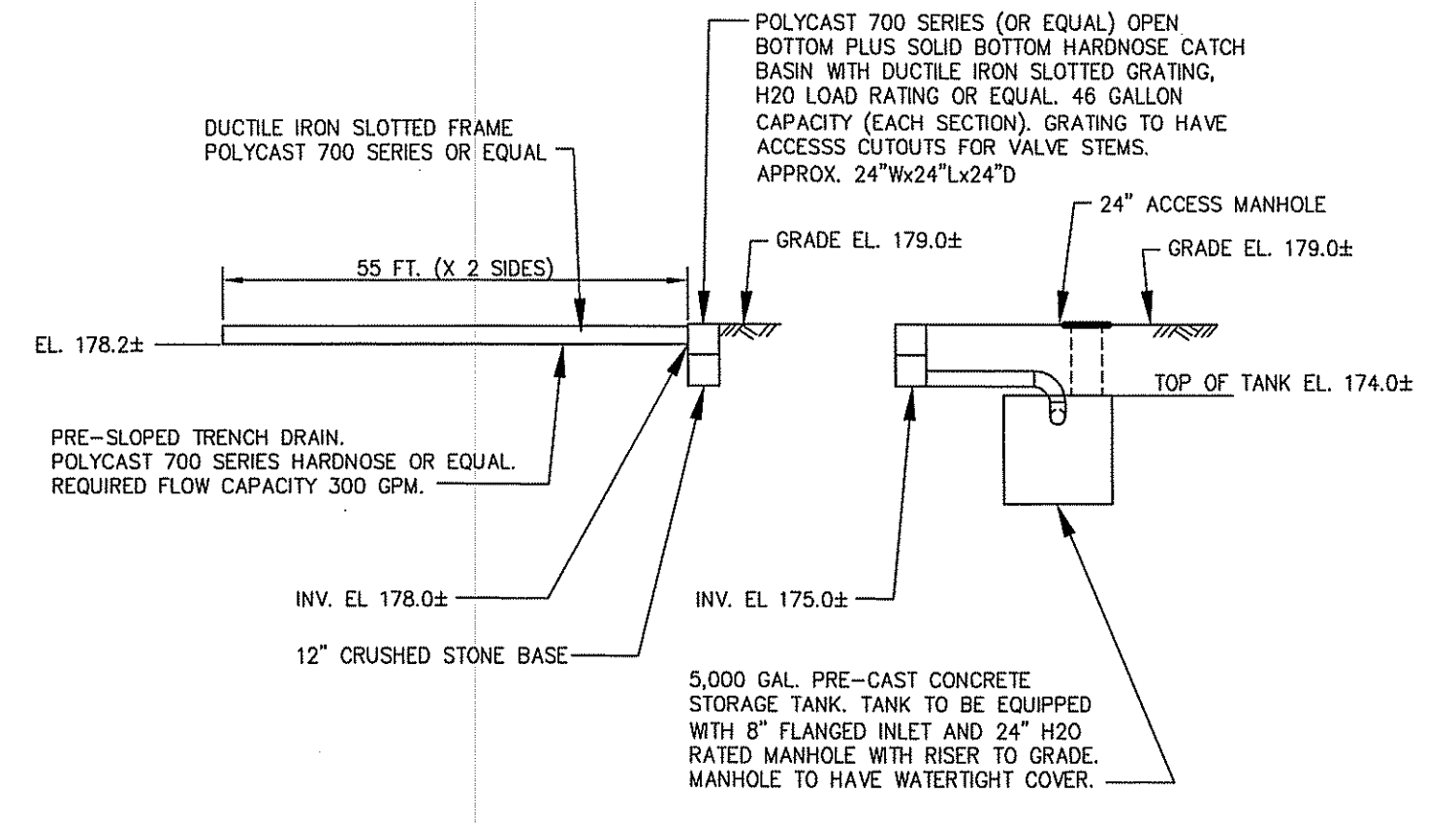
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NOT TO SCALE



**WATER QUALITY SWALE DETAIL**  
NOT TO SCALE



**TRENCH DRAIN AT PRE-CAST CONCRETE STORAGE TANK - PLAN DETAIL**  
NTS



**TRENCH DRAIN AT PRE-CAST CONCRETE STORAGE TANK - SECTION DETAIL**

- NOTES:**
1. VALVE OPERATORS TO BE EXTENDED TO JUST BELOW GRATING FOR OPERATOR ACCESS.
  2. PROVIDE LINK SEALS AT BOTH PIPE PENETRATIONS INTO CB.
  3. DI PIPE TO BE USED WHEN COVER IS LESS THAN 4 FEET, OTHERWISE PVC.
  4. TANK TO BE COATED WITH SIKAGUARD 62.
  5. COAT INTERIOR PER SPECIFICATIONS SECTION 09800.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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 DATED AUG 6 2012 FILE # 12-0109  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

**RIDEM PERMIT SUBMITTAL NOT FOR CONSTRUCTION**

REVISIONS

MARK DATE MADE BY CHECKED

**Nickerson**  
GENERAL CONTRACTOR

**ACOM**  
A Joint Venture

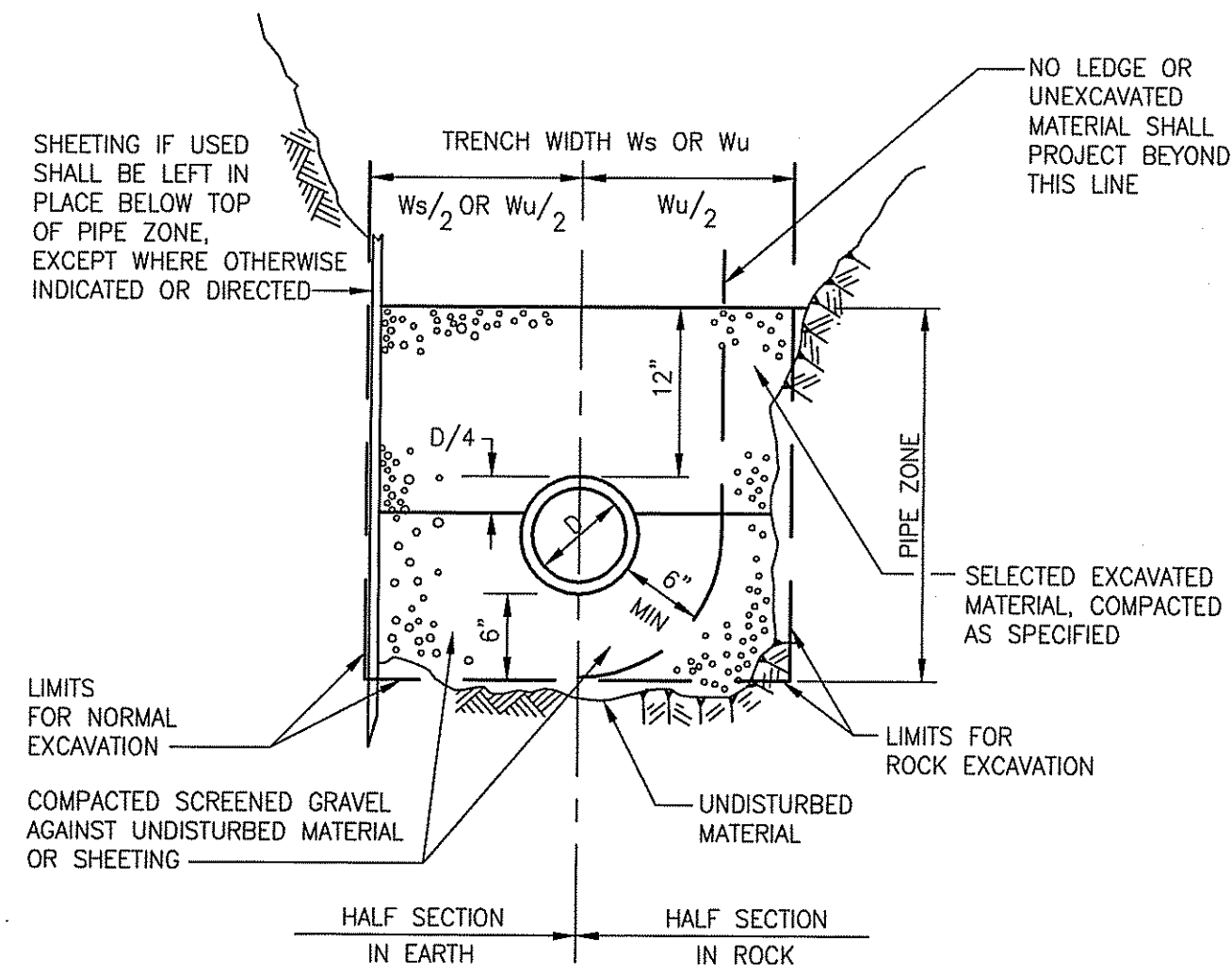
CHRISTOPHER J. SCHMITT 9892  
REGISTERED PROFESSIONAL ENGINEER CIVIL

CITY OF NEWPORT, RHODE ISLAND  
LAWTON VALLEY WATER TREATMENT FACILITY

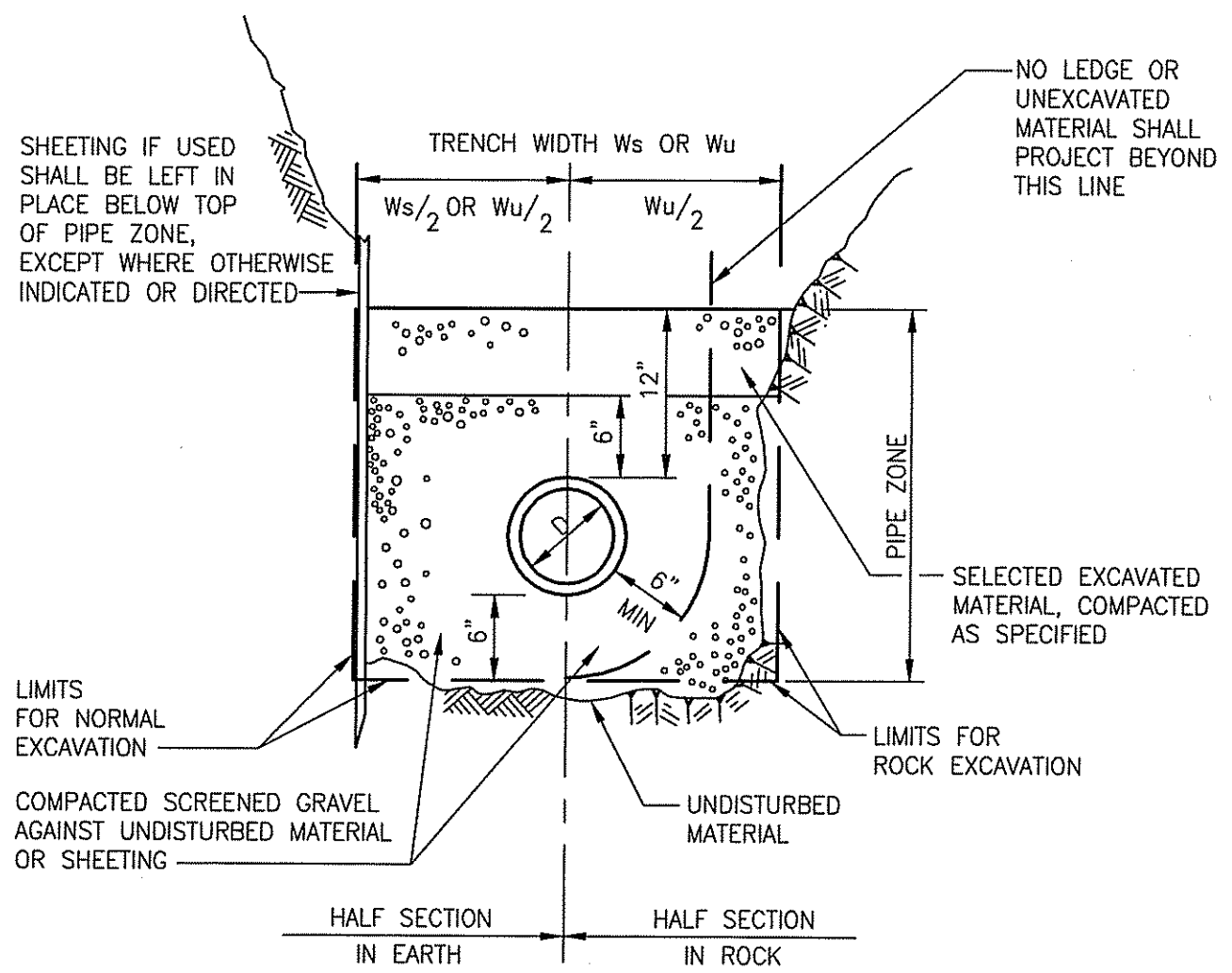
**CIVIL DETAILS I**  
CIVIL

PROJECT NO: 60240199  
 CAD DWG FILE: 99 C-501\_RIDEM  
 DESIGNED BY: C. SCHMITT  
 DRAWN BY: W. BALETSA  
 DEPT CHECK: C. BENZIGER  
 PROJ CHECK: R. POGODZIENSKI  
 DATE: JUNE 2012  
 SCALE: AS NOTED

99 C-501  
SHEET OF



**TRENCH SECTION FOR DI OR PVC PIPE 20 INCH DIAMETER AND LARGER**  
NOT TO SCALE

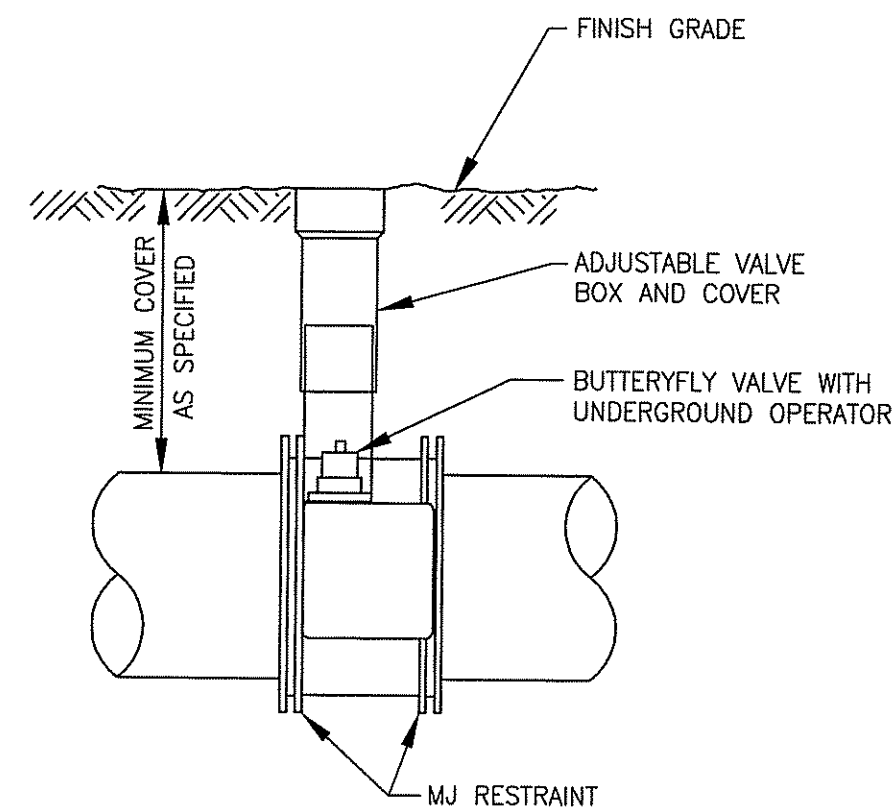


**TRENCH SECTION FOR DI OR PVC PIPE 18 INCH DIAMETER AND SMALLER**  
NOT TO SCALE

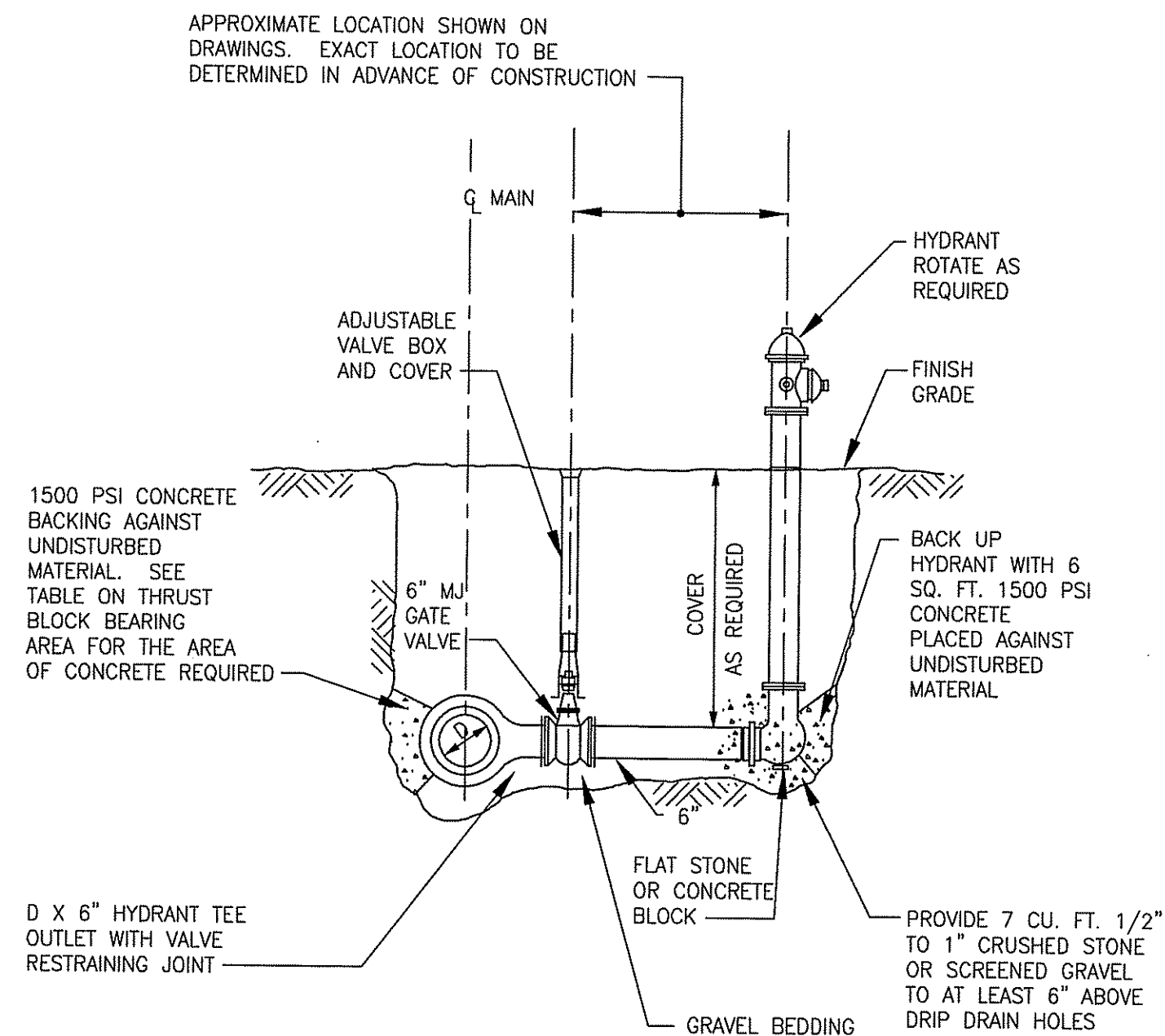
- PIPE TRENCHES MAY BE EXCAVATED WIDER THAN TRENCH WIDTH  $W_s$  (SHEETED) OR  $W_u$  (UNSHEETED) ABOVE THE TOP OF PIPE ZONE.
- TRENCHES SHALL NOT BE EXCAVATED BEYOND THE TRENCH WIDTH  $W_u$  BELOW THE TOP OF PIPE ZONE.

MAXIMUM TRENCH WIDTH $W_s$ OR $W_u$ (SEE NOTES 1 & 2)		
NOMINAL PIPE DIAMETER D	$W_u$ UNSHEETED	$W_s$ SHEETED
12" AND SMALLER	5'-0"	5'-0"

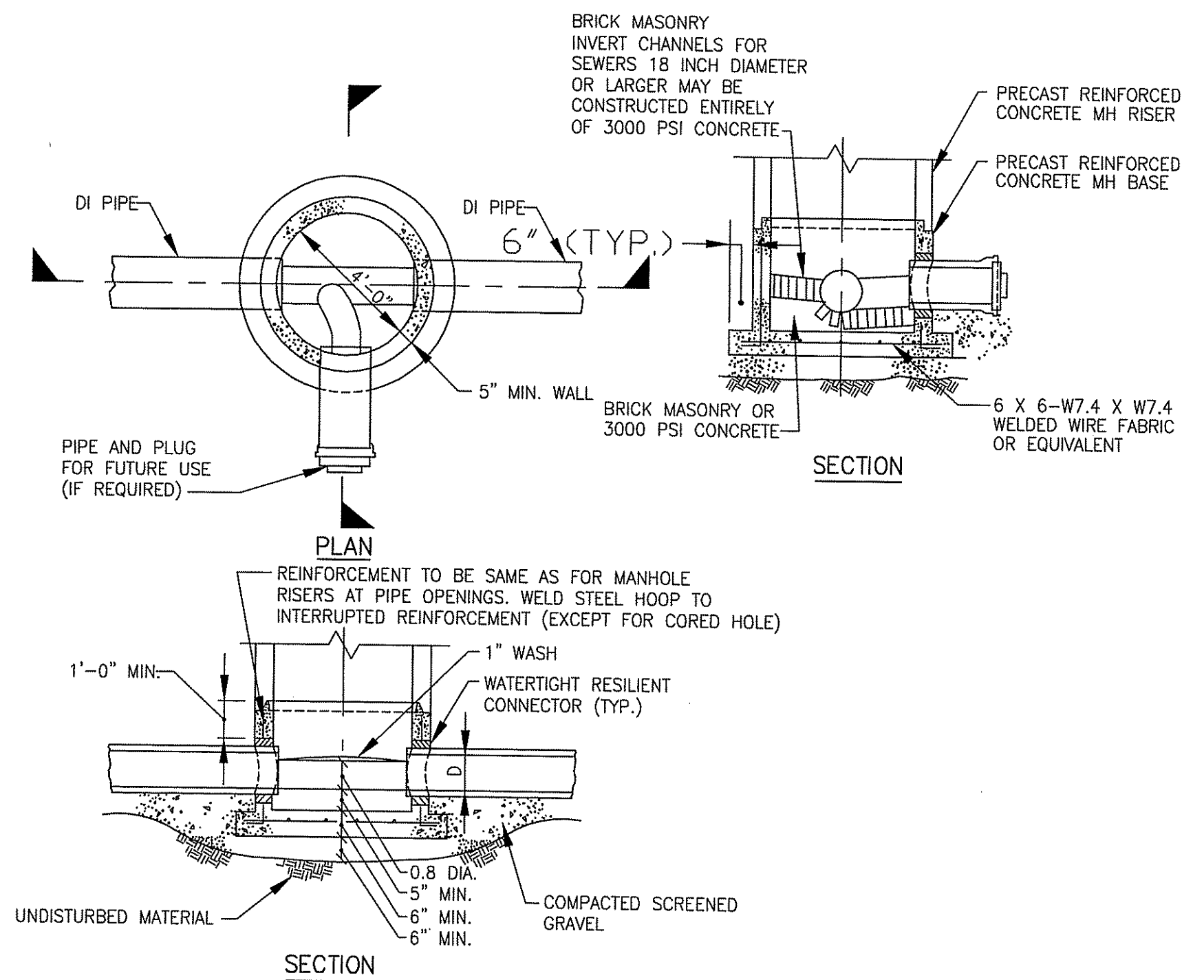
**GENERAL NOTES FOR PIPE TRENCHES**  
NTS



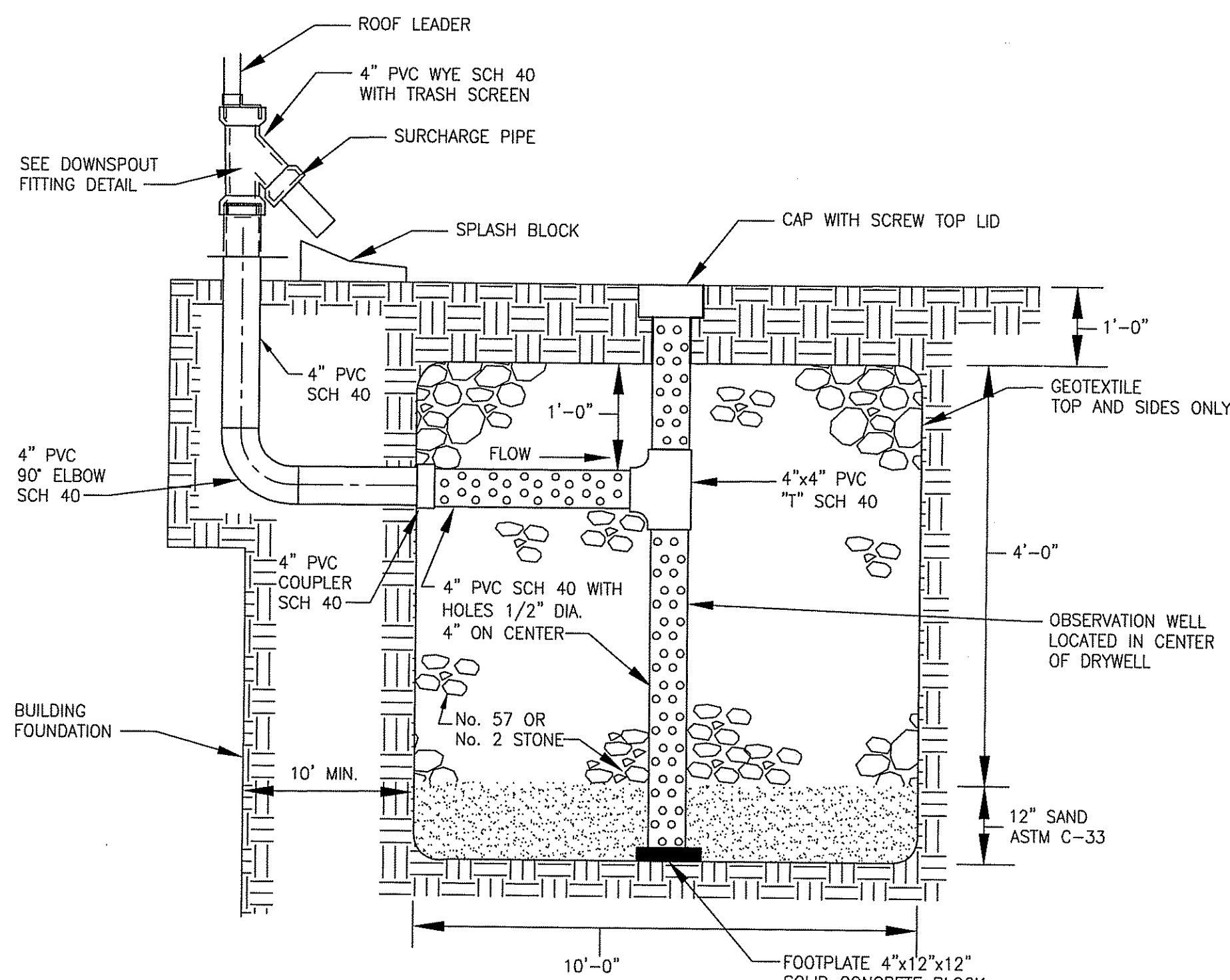
**BURIED BUTTERFLY VALVE**  
NTS



**TYPICAL HYDRANT ASSEMBLY WITH DRAIN**  
NTS

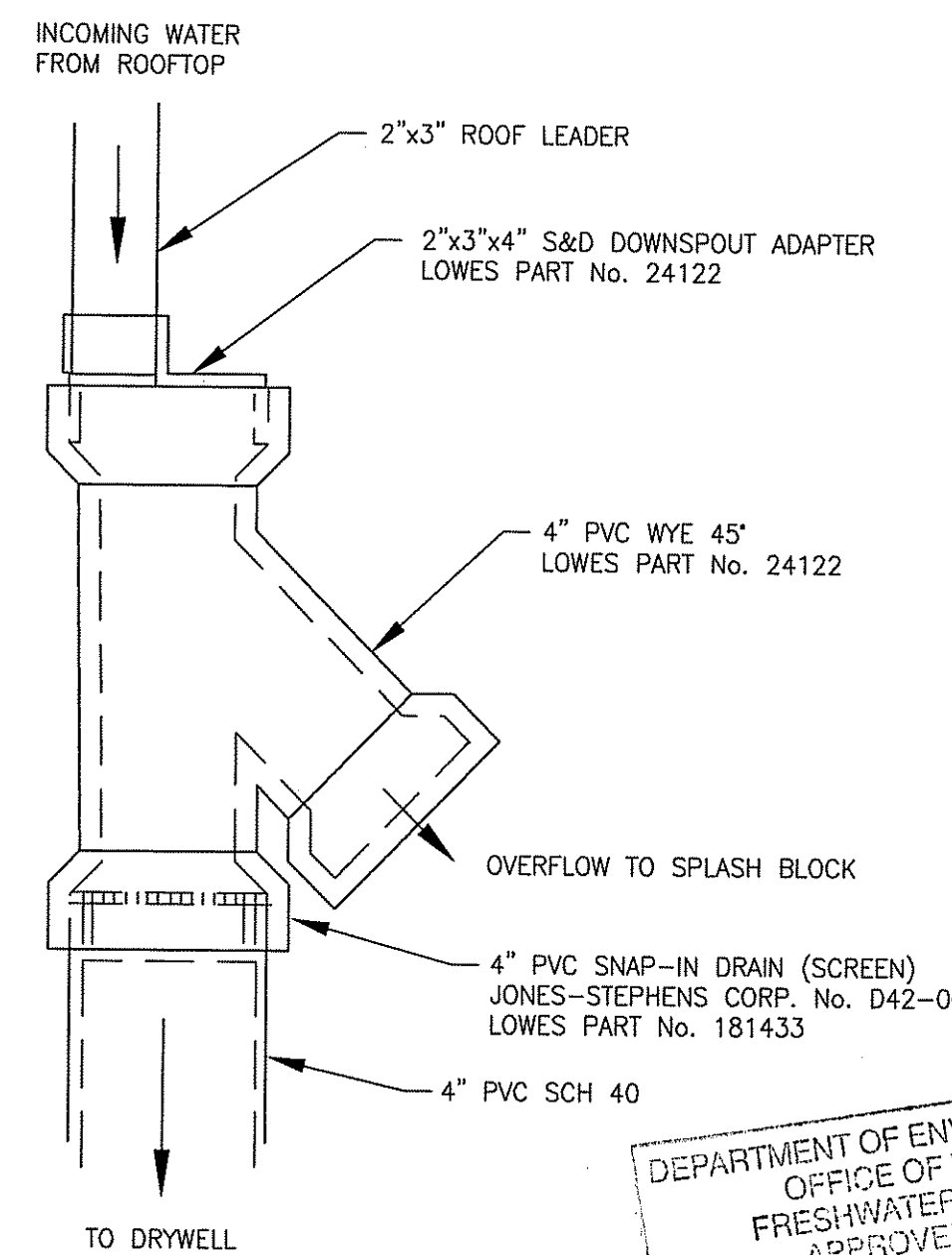


**4'-0" PRECAST REINFORCED CONCRETE MANHOLE BASE FOR DI SEWERS AND DRAINS**  
NOT TO SCALE  
2-1.5.13 (REV. 03-15-95)



- NOTES:**
- DRYWELL IS 10'x10'x5' WITH SAND FILLING THE BOTTOM FOOT. THIS PROVIDES ADEQUATE STORMWATER CONTROL FOR 2500 SQUARE FEET OF ROOFTOP.
  - MINIMUM SETBACKS:  
A. 100 FT. FROM WELLS  
B. 25 FT. FROM SEPTIC AREAS  
C. 10 FT. FROM BUILDINGS
  - FROM THE DOWNSPOUT TO THE DRYWELL THE DRAIN PIPE MUST BE AT LEAST 6" BELOW GRADE.
  - THE LOCATIONS AND SIZE OF ALL DRYWELLS MUST BE SHOWN ON THE GRADING PLOT PLAN.

**STANDARD DRYWELL**  
NTS

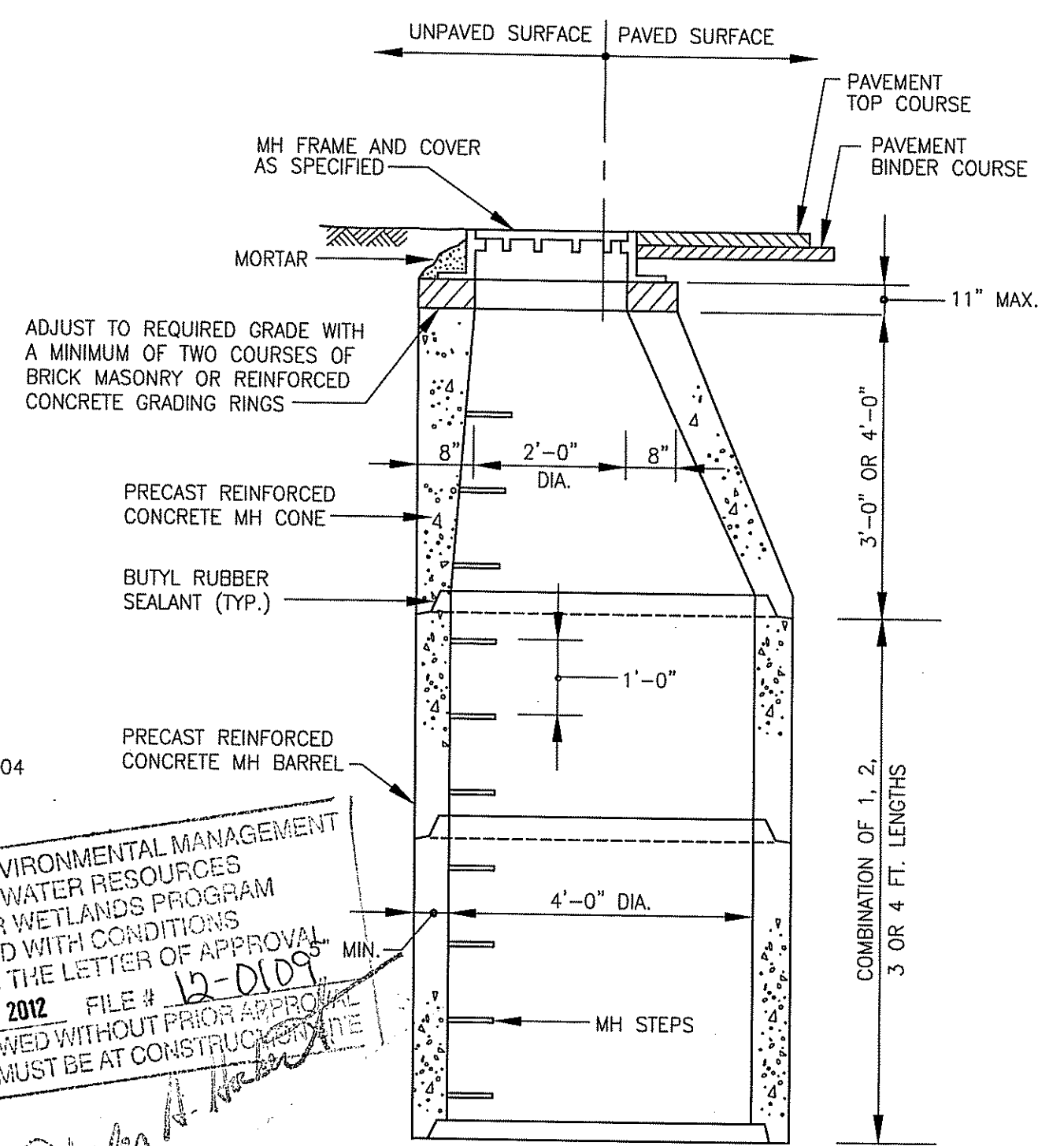


- NOTES:**
- THE SNAP IN SCREEN IS REQUIRED TO PREVENT CLOGGING OF THE DRYWELL WITH DEBRIS.
  - THE LOWES PART NUMBERS ARE GIVEN FOR CONVENIENCE ONLY. ANY EQUIVALENT SCHEDULE 40 PVC FITTINGS MAY BE USED.

**STANDARD DRYWELL DOWNSPOUT FITTINGS**  
NTS

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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AUG 6 2012 FILE # 12-D109  
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Charles H. [Signature]*



**MANHOLE RISER WITH ECCENTRIC CONE TOP**  
NOT TO SCALE

**RIDEM PERMIT SUBMITTAL NOT FOR CONSTRUCTION**

**AECOM**  
A Joint Venture  
NICKERSON  
CONSULTANTS

CHRISTOPHER J. SCHMITT  
9892  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

CITY OF NEWPORT, RHODE ISLAND  
LAWTON VALLEY WATER TREATMENT FACILITY

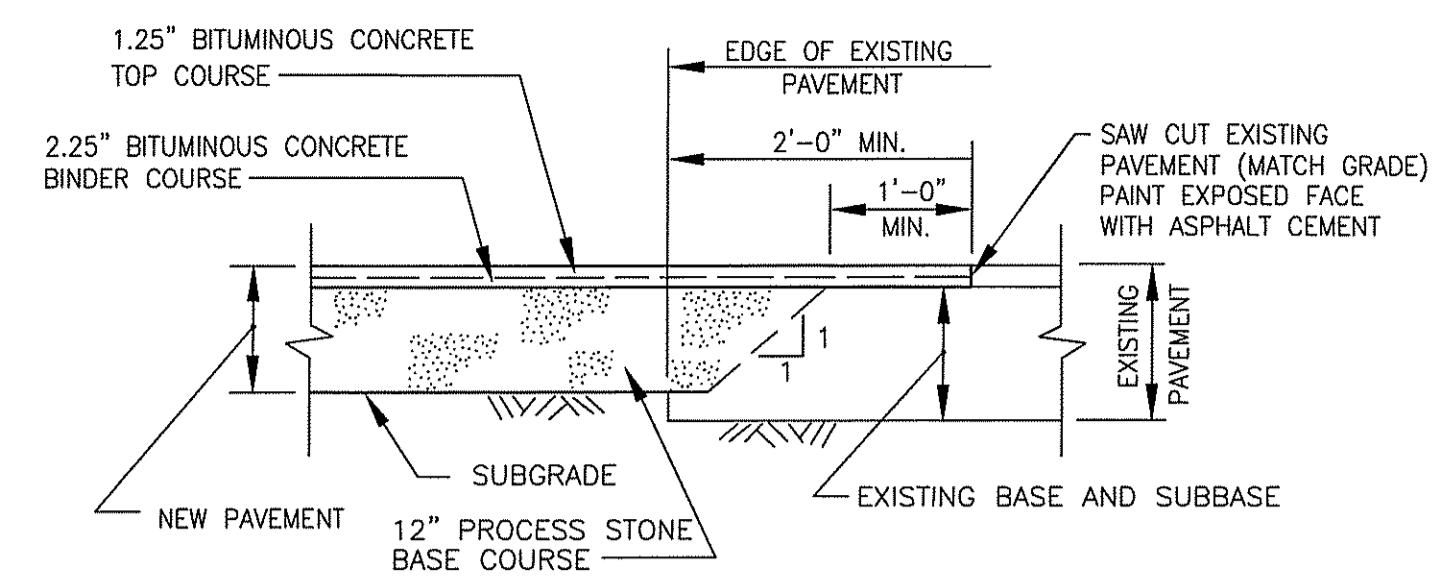
**CIVIL DETAILS II**

PROJECT NO: 60240199  
CAD DWG FILE: 99 C-502\_RIDEM  
DESIGNED BY: C. SCHMITT  
DRAWN BY: W. BALETSA  
DEPT CHECK: C. BENZIGER  
PROJ CHECK: R. POGODZIENSKI  
DATE: JUNE 2012  
SCALE: AS NOTED

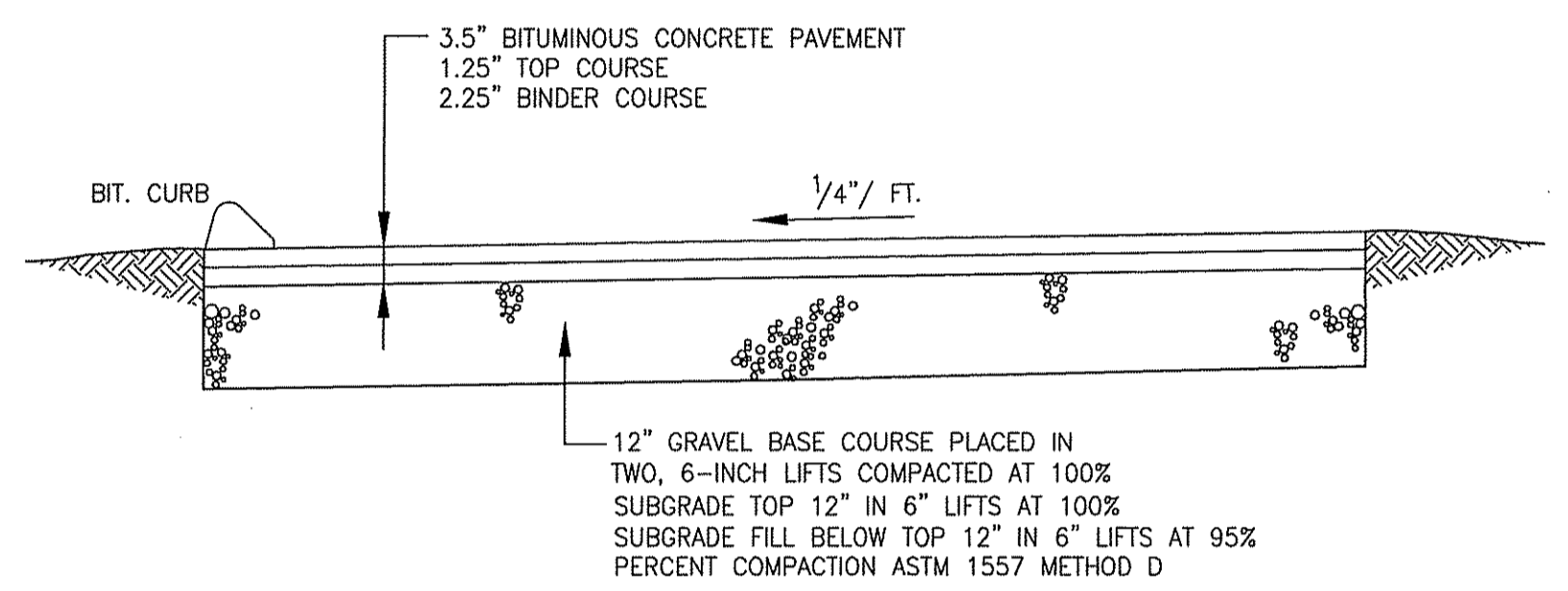
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 ANS1 0 - 26-Jun-12

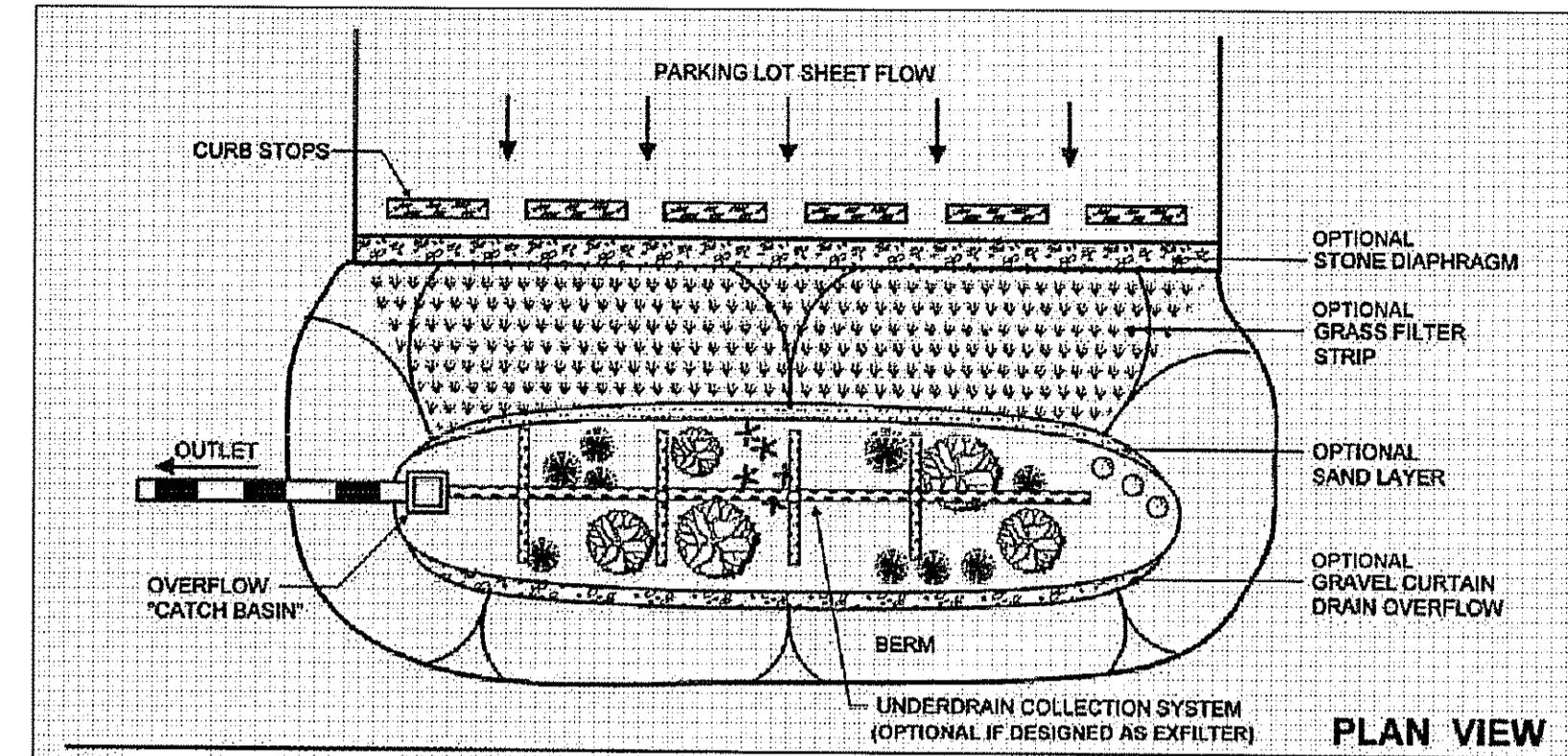
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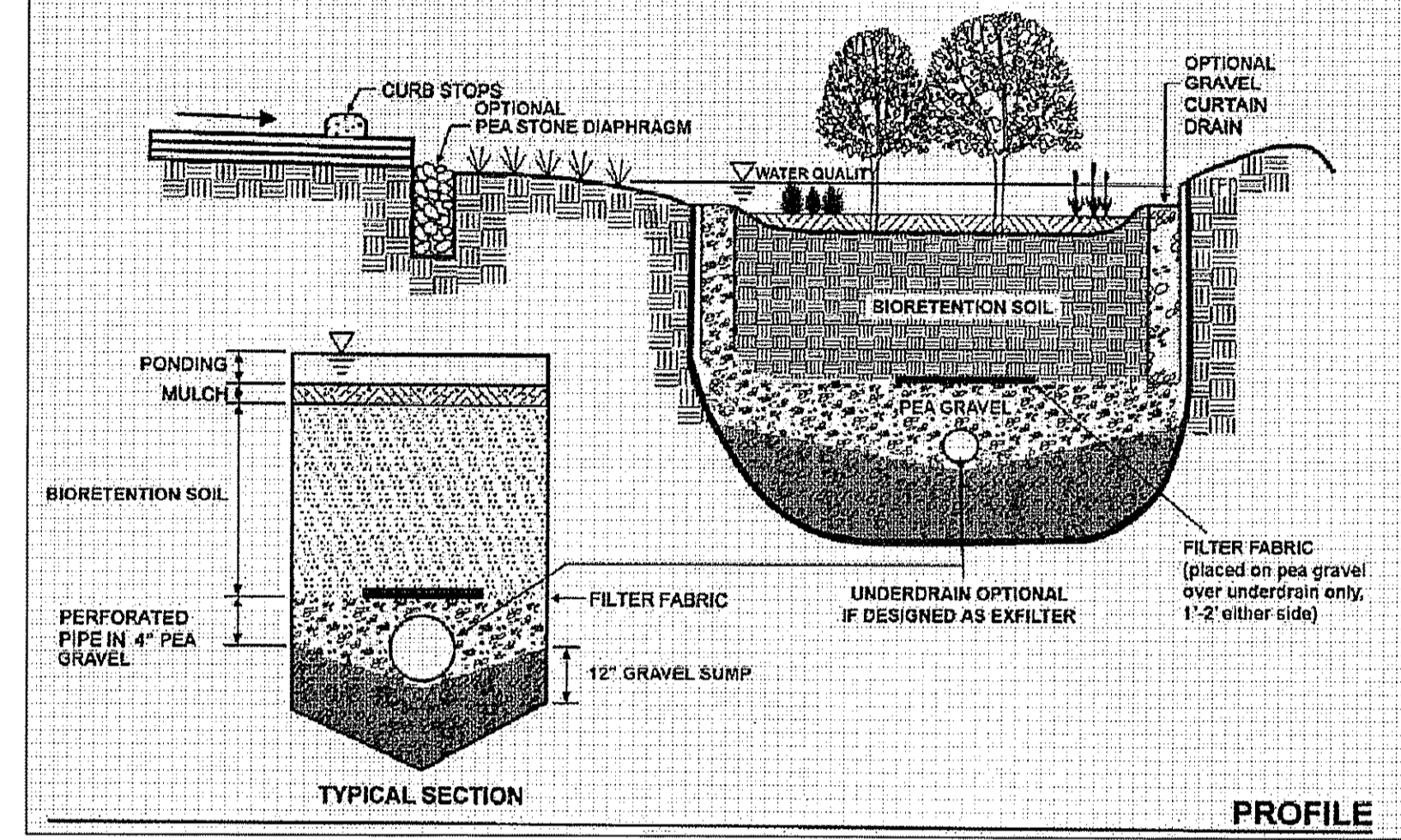
**TYPICAL FORMAT OF PAVEMENT MATCHING DETAIL**  
NOT TO SCALE



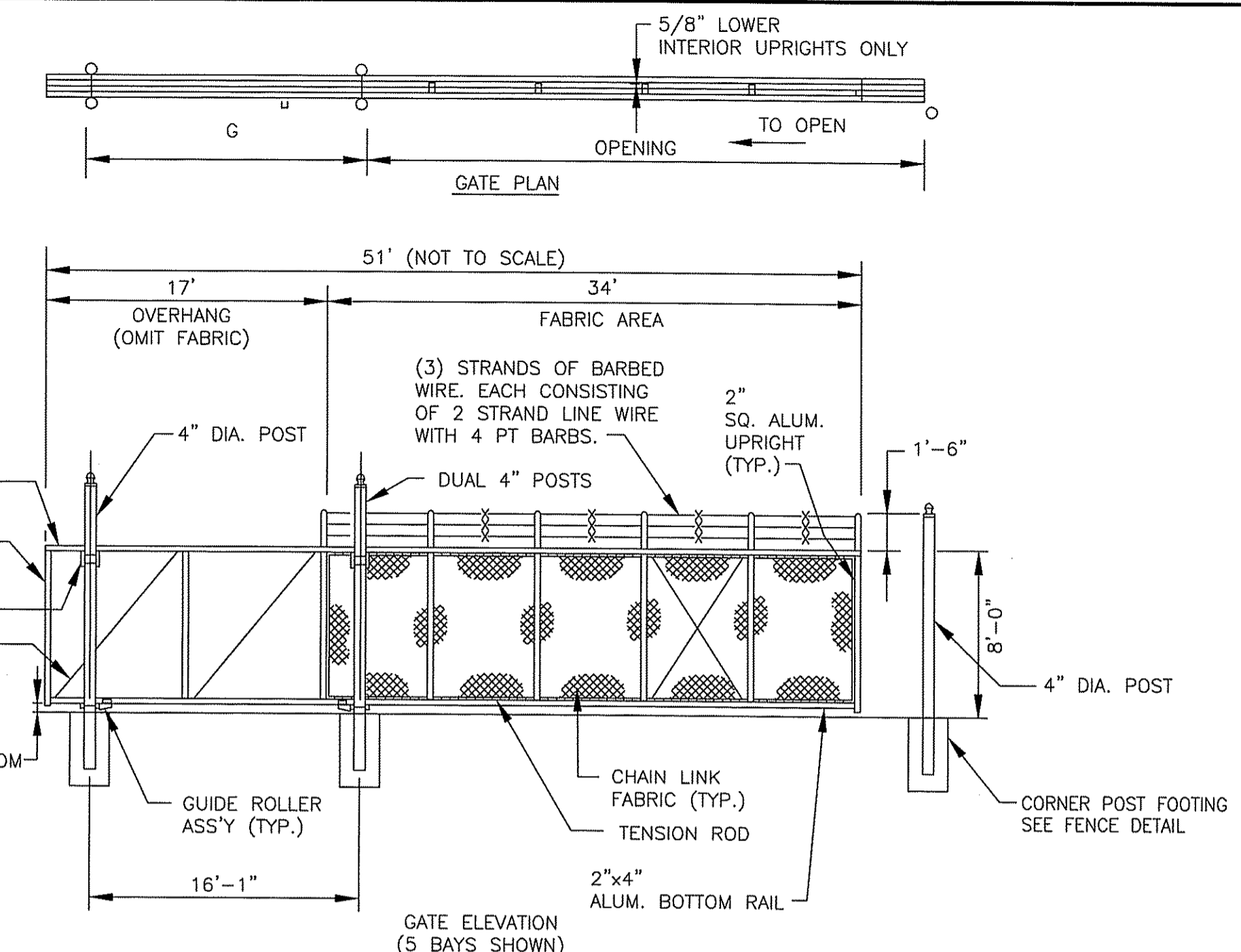
**NEW PAVEMENT SECTION**  
N.T.S.



**PLAN VIEW**

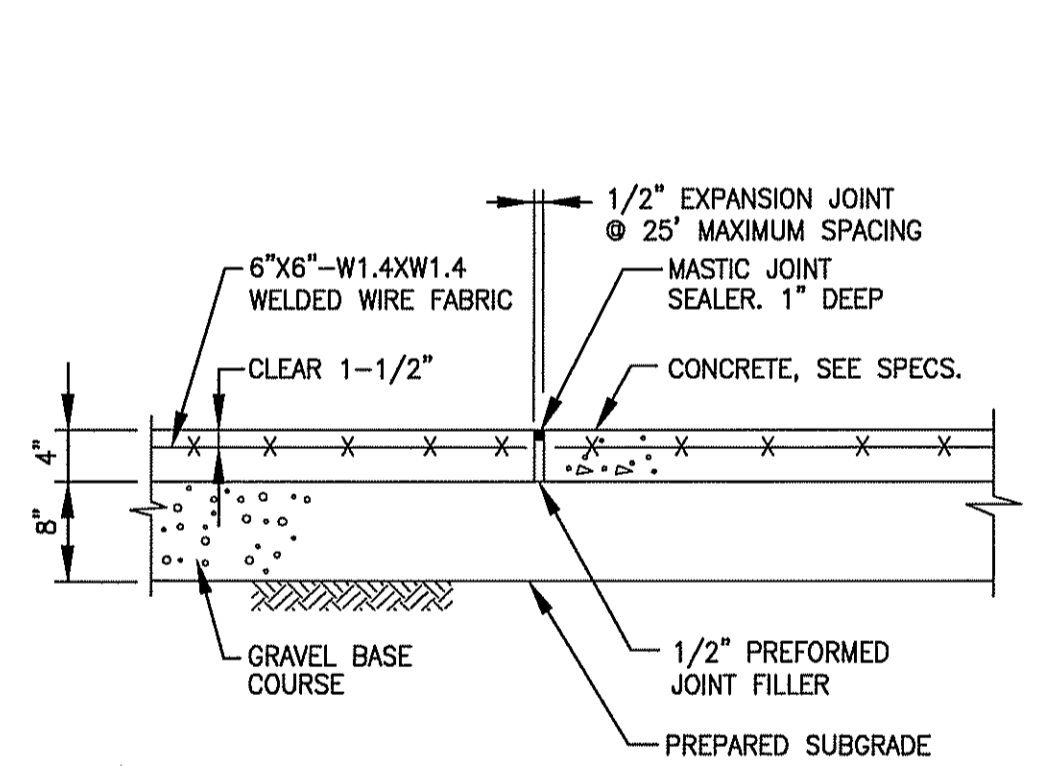


**TYPICAL SECTION PROFILE**

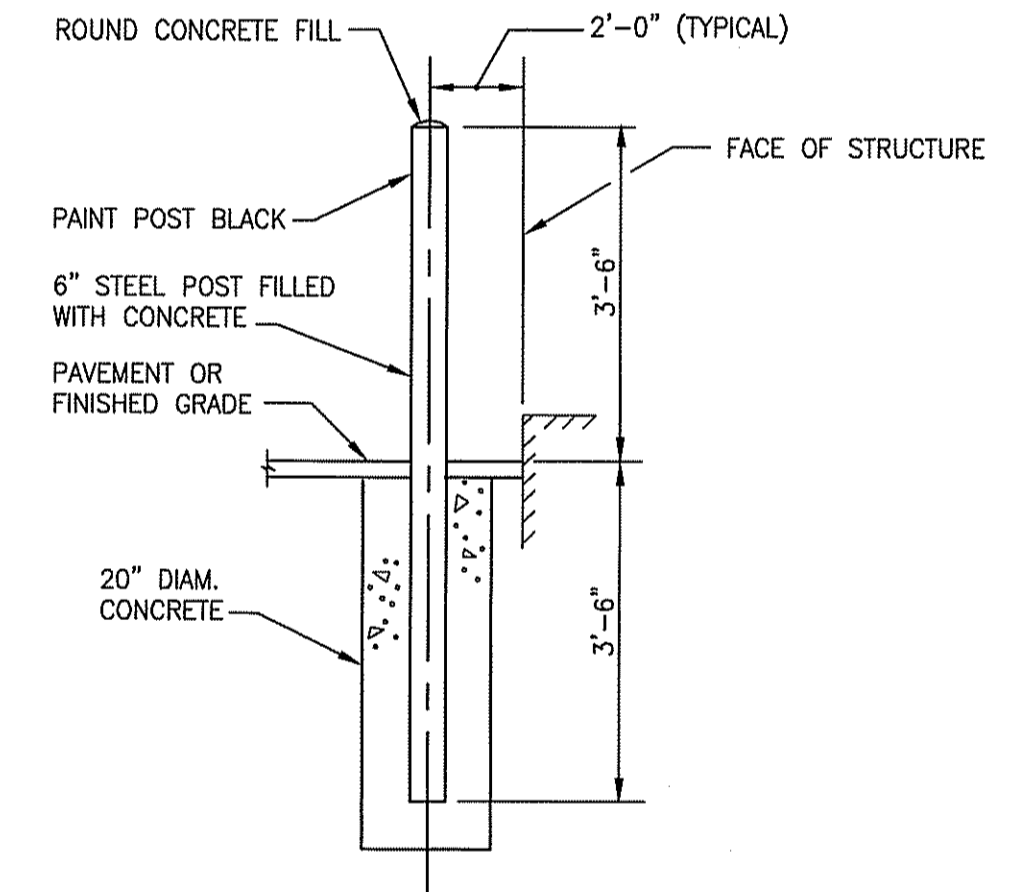


- NOTES:**
- SPECIFICATIONS SHOWN CAN BE CHANGED BY THE MANUFACTURER ONLY.
  - FOOTING WIDTH TO (4)X POST WIDTH. MINIMUM DEPTH TO BE 36".
  - GATES MAY BE MANUALLY OR ELECTRICALLY OPERATED. HARDWARE WILL VARY FOR ELECTRICALLY OPERATED GATES.

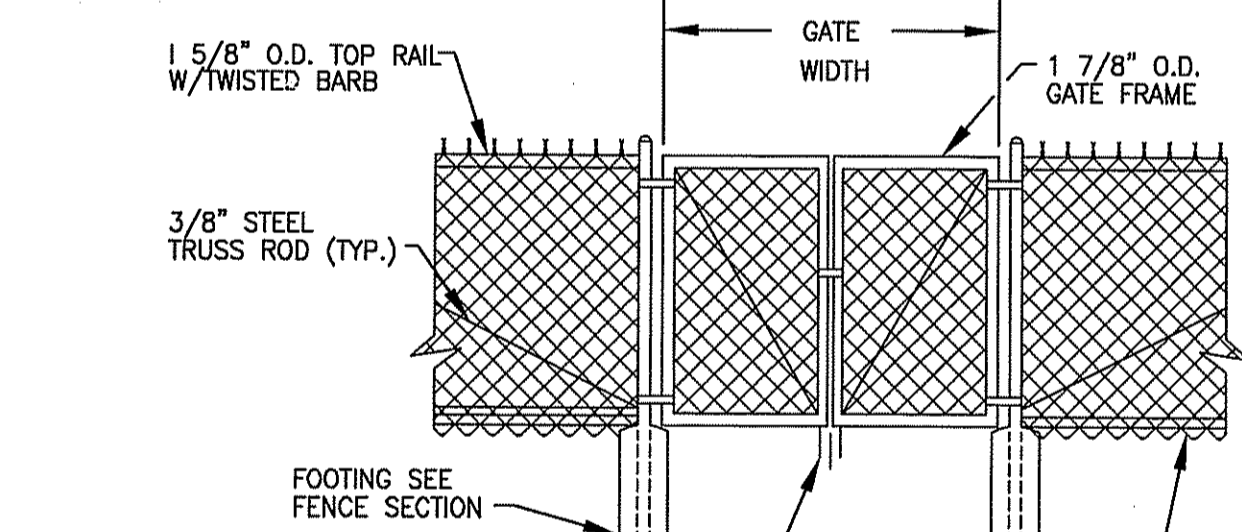
**SINGLE CANTILEVERED SLIDING GATE**  
NOT TO SCALE



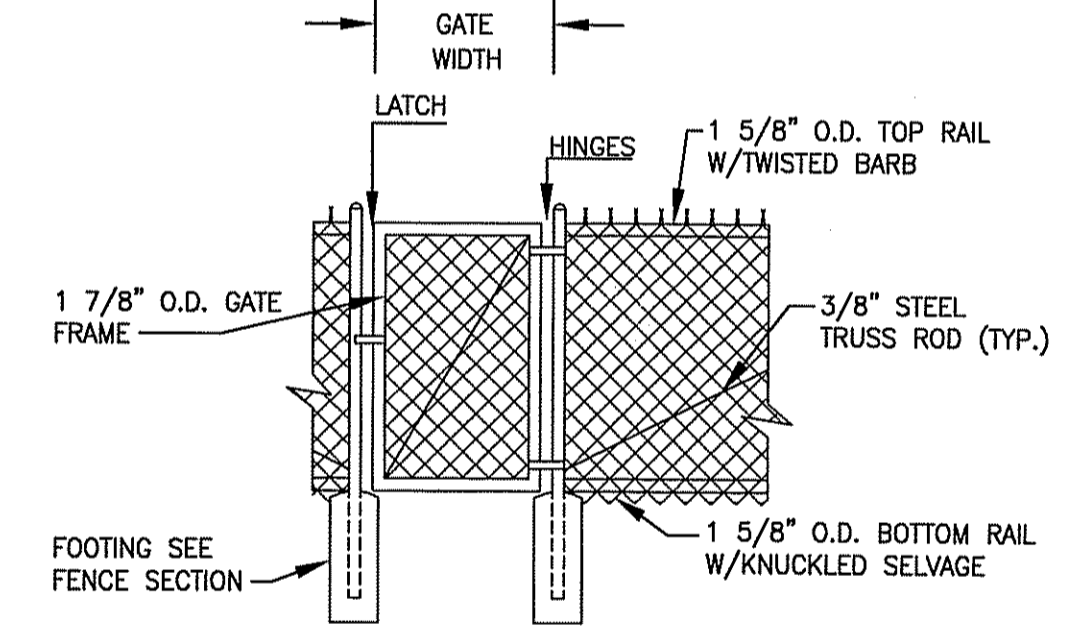
**EXPANSION JOINT FOR CONCRETE WALKWAYS**  
NTS



**GUARD POST BOLLARD**  
NTS

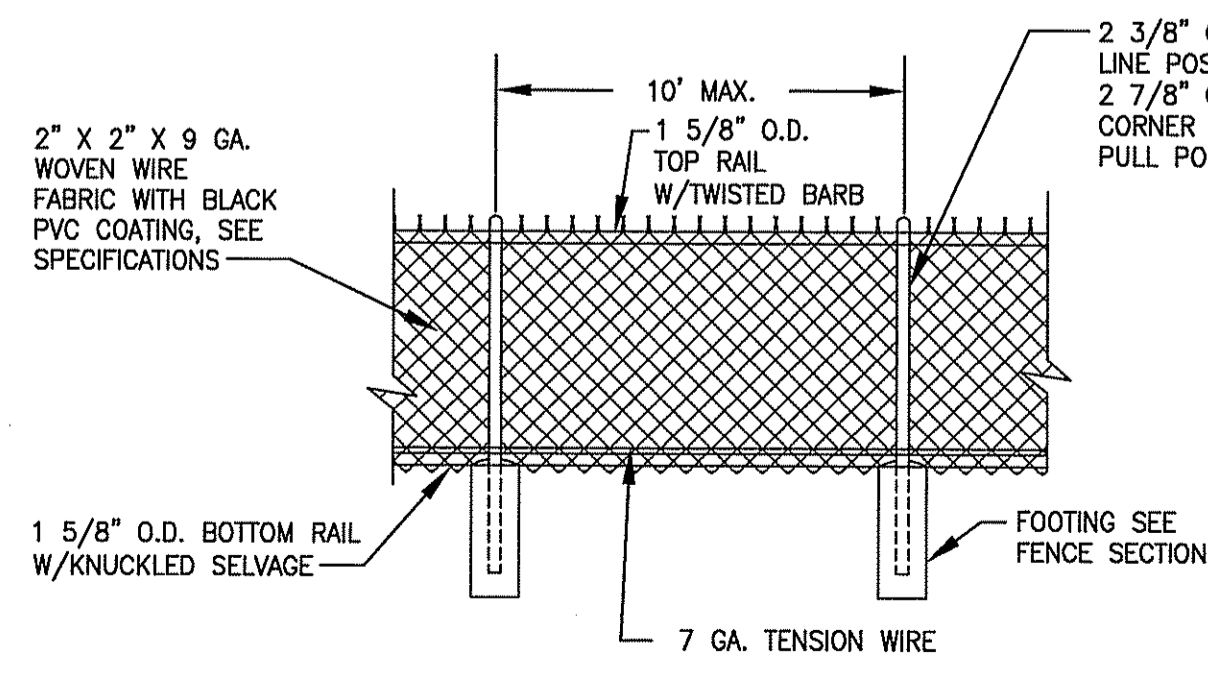


**6' HIGH DOUBLE LEAF GATE**  
NTS

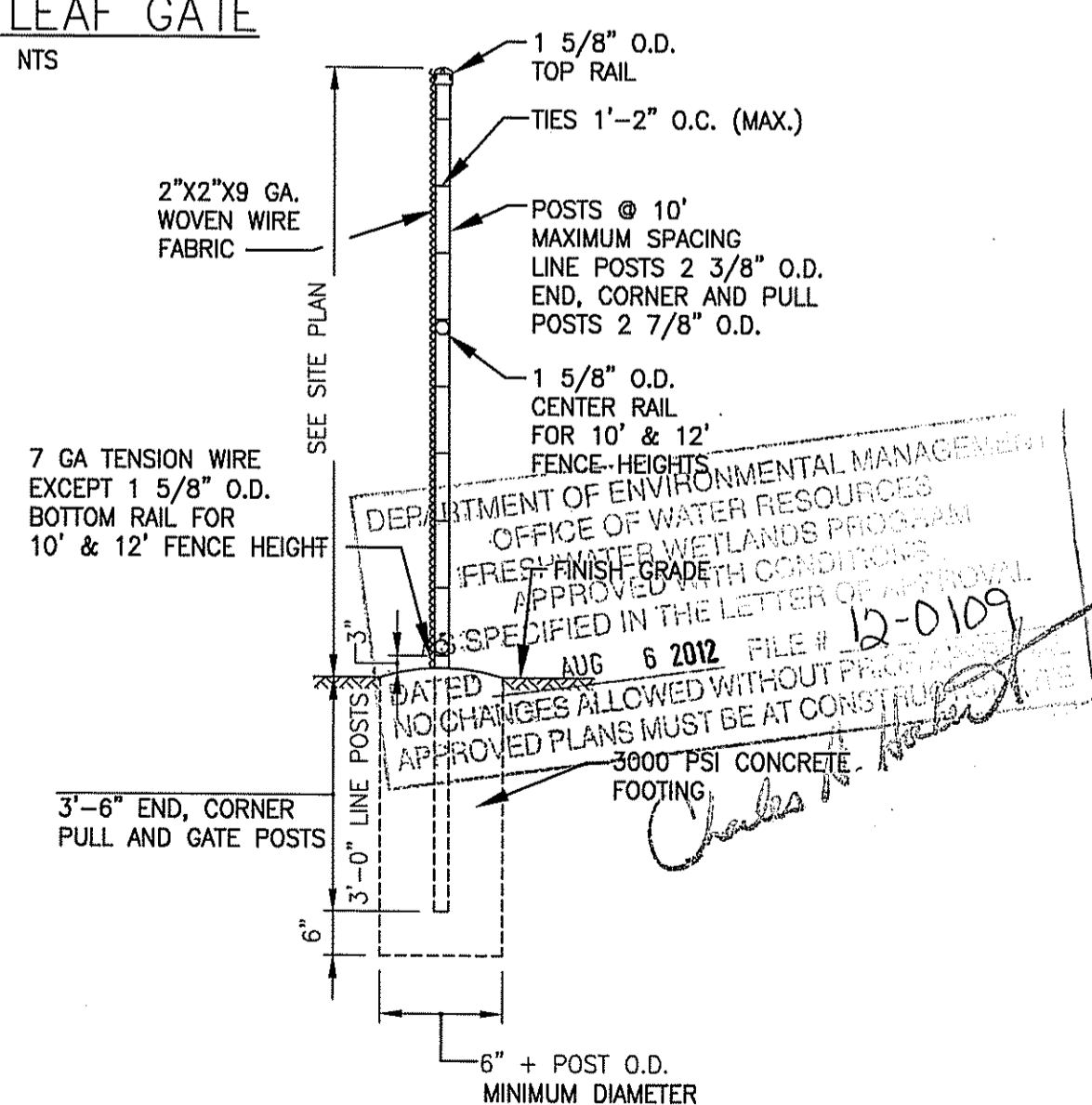


**6' HIGH SINGLE LEAF GATE**  
NTS

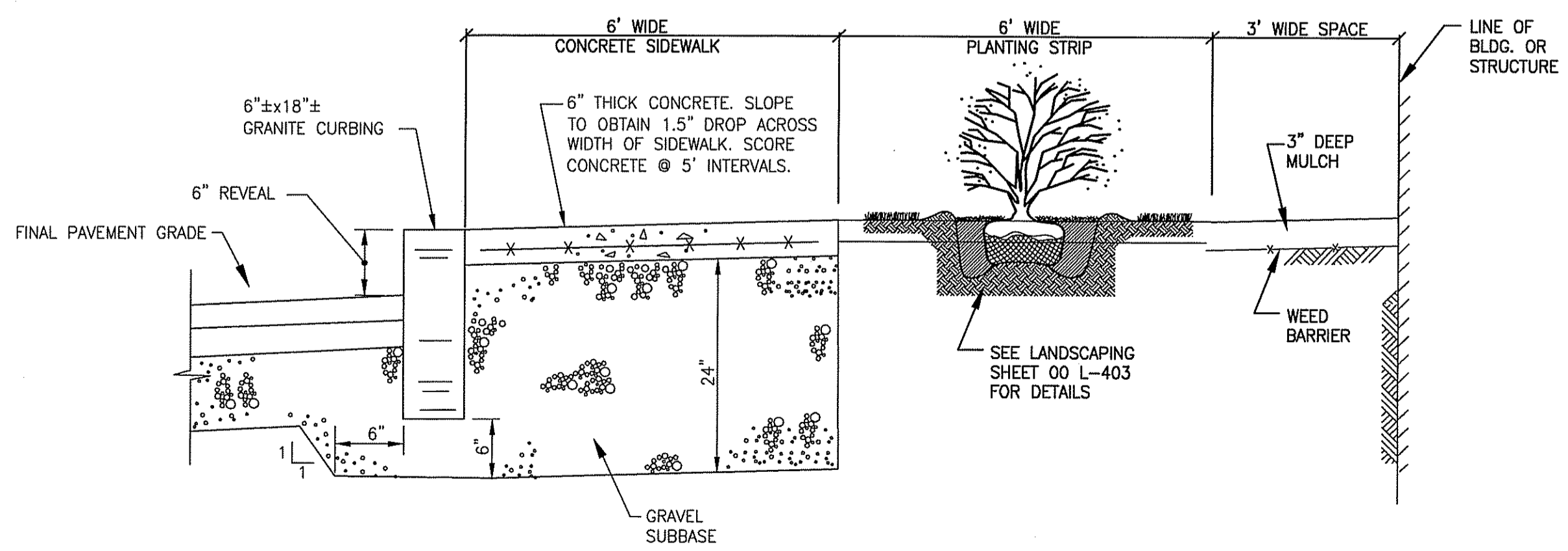
GATE POST SCHEDULE	
GATE WIDTH	POST O.D.
≤ 6'	2 7/8"
6'-13'	4"
13'-18'	6 5/8"



**6' HIGH CHAIN LINK FENCE**  
NTS



**CHAIN LINK FENCE SECTION**  
NTS



**BUILDING TO PARKING AREA SECTION DETAIL**  
NTS

**RIDEM PERMIT SUBMITTAL**  
**NOT FOR CONSTRUCTION**

MARK	DATE	MADE BY	CHECKED	DESCRIPTION	REVISIONS

**Nickerson**  
GENERAL CONTRACTORS

**AECOM**  
A Joint Venture

CHRISTOPHER J. SCHMITT  
No. 9892  
*Christopher J. Schmitt*  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

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**CIVIL DETAILS III**

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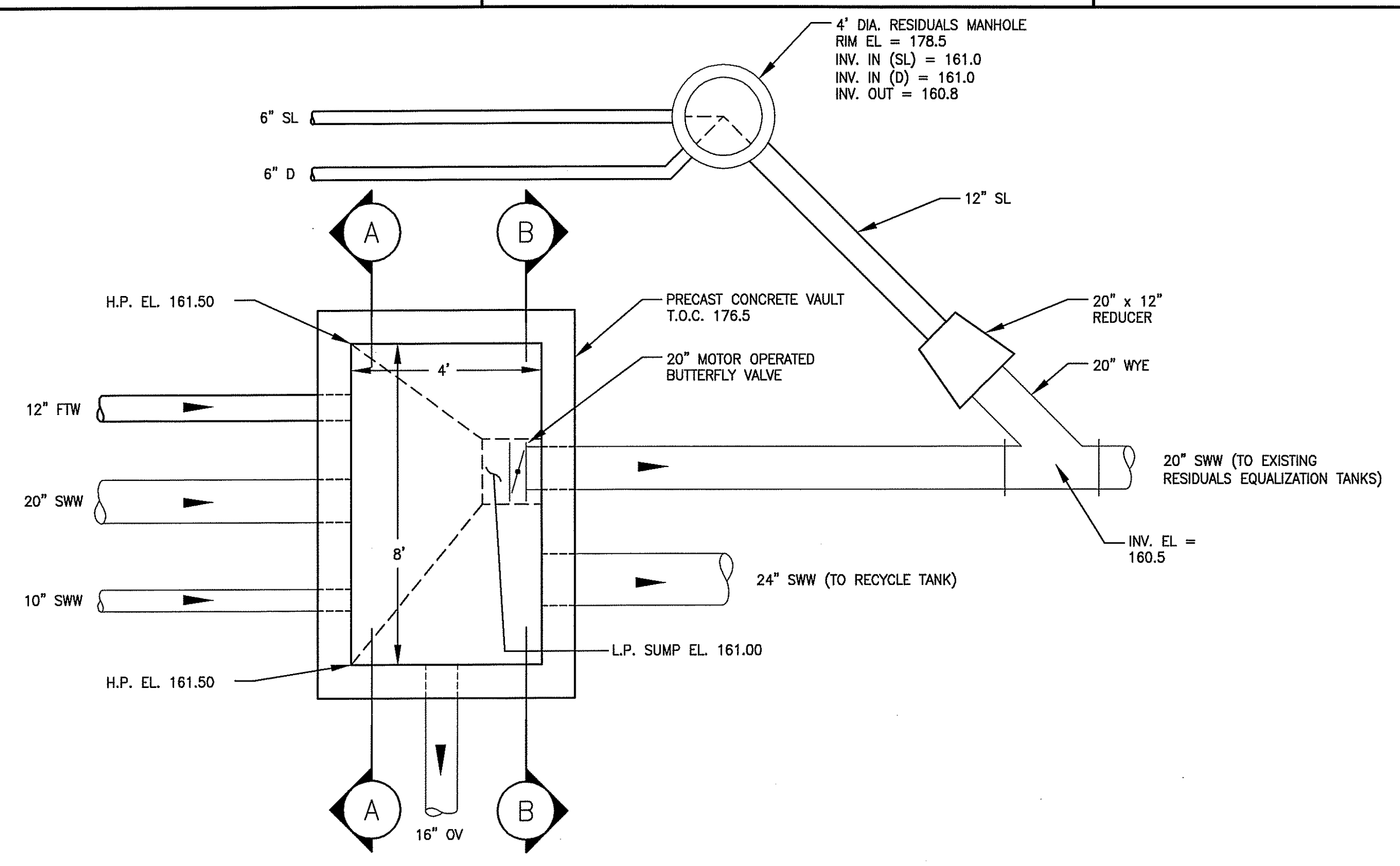
CITY OF NEWPORT, RHODE ISLAND  
LAWTON VALLEY WATER TREATMENT FACILITY

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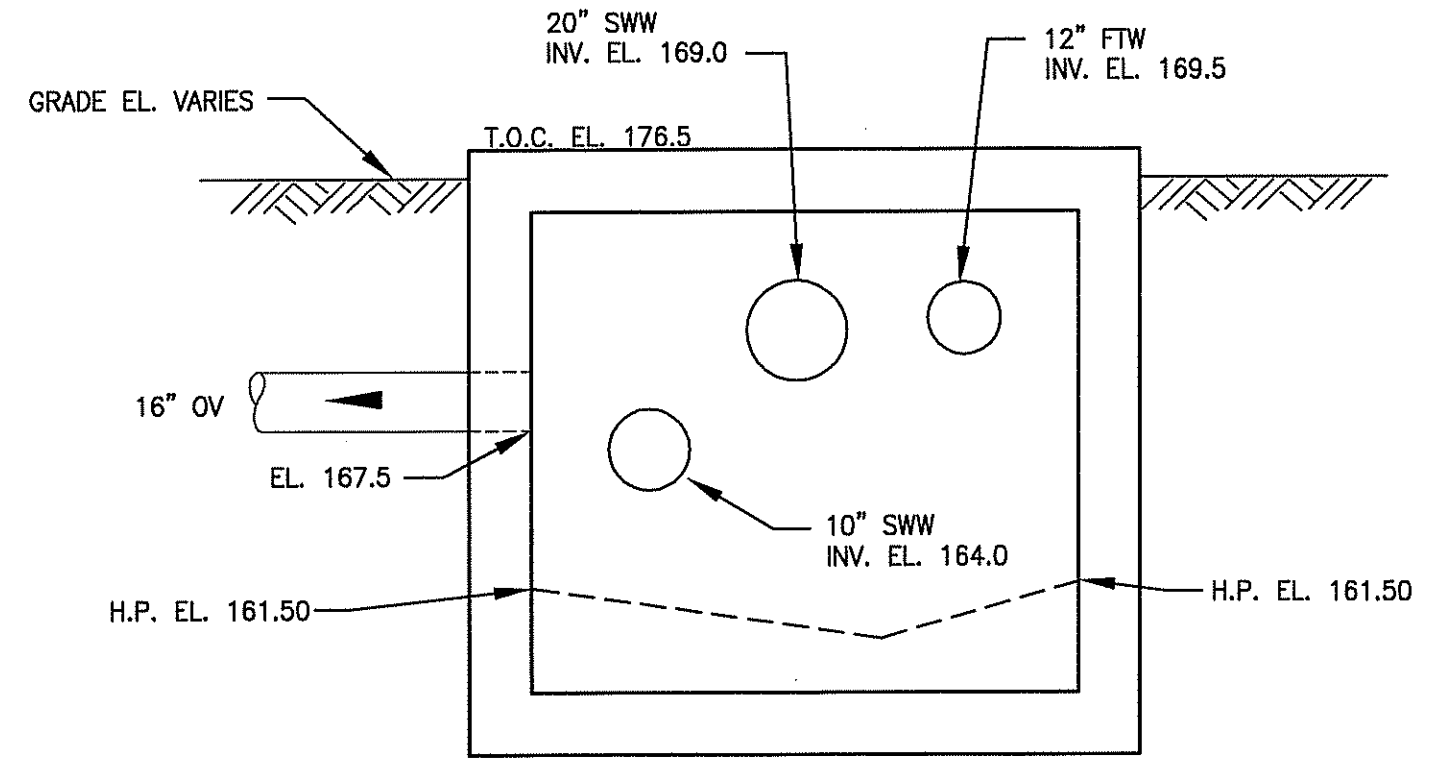
PROJECT NO: 60240199  
CAD DWG FILE: 99 C-503\_RIDEM  
DESIGNED BY: C. SCHMITT  
DRAWN BY: W. BALETSA  
DEPT CHECK: C. BENZIGER  
PROJ CHECK: R. POGODZIENSKI  
DATE: JUNE 2012  
SCALE: AS NOTED

**99 C-503**  
SHEET OF

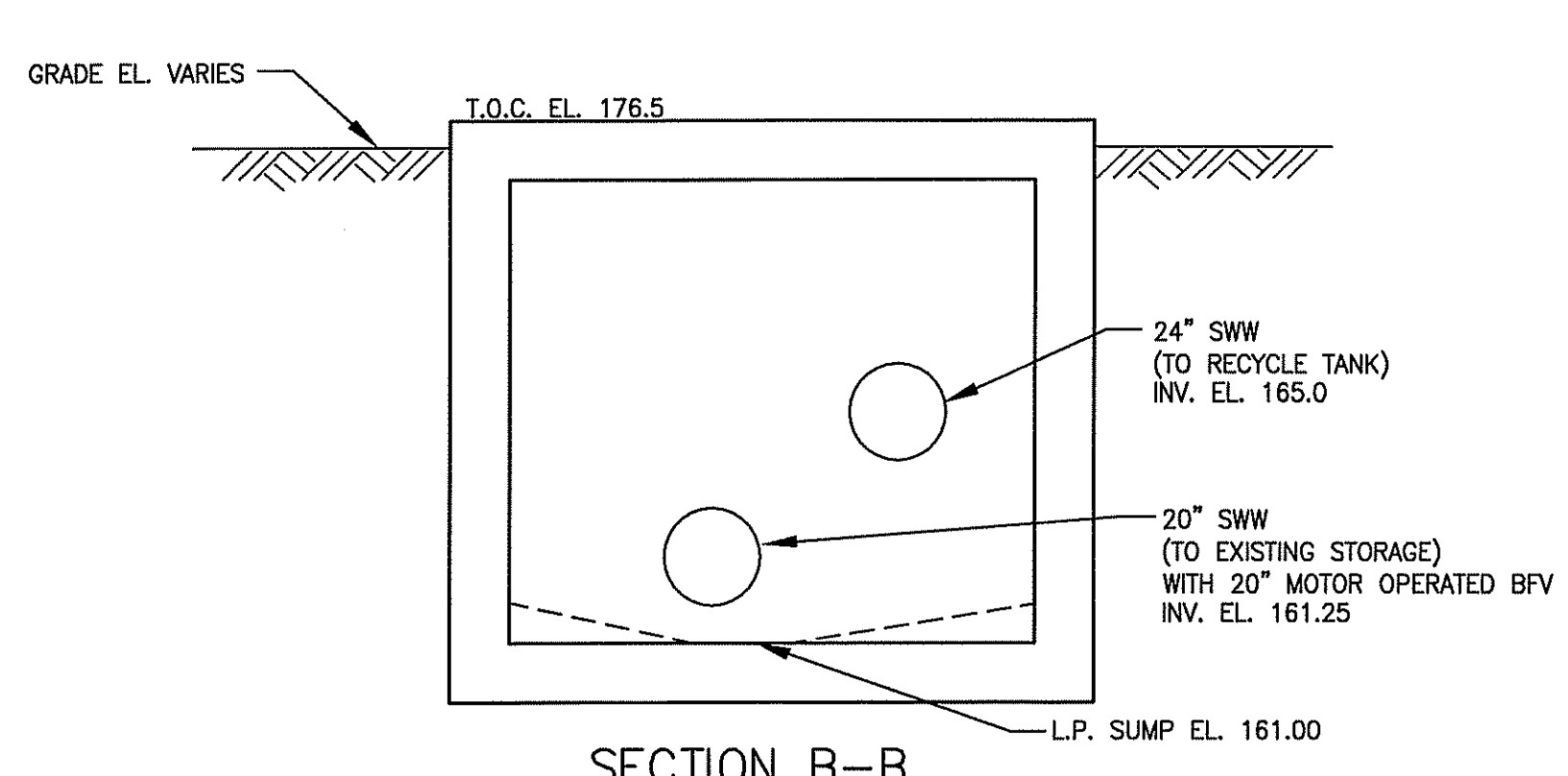
PATH/FILENAME: C:\PROJ-TEMP\NEWPORT\_VTP\_DESIGNING\GDD\LAWTON\_VALLEY\_WORKING\UPDATE TO SYSTEM\RIDEM PERMIT\99 C-504\_RIDEM.DWG  
 LAST UPDATE: Tuesday, June 26, 2012 2:13:11 PM  
 PLOT DATE: Tuesday, June 26, 2012 3:41:20 PM  
 ANSI D - 28-Jun-12



PLAN



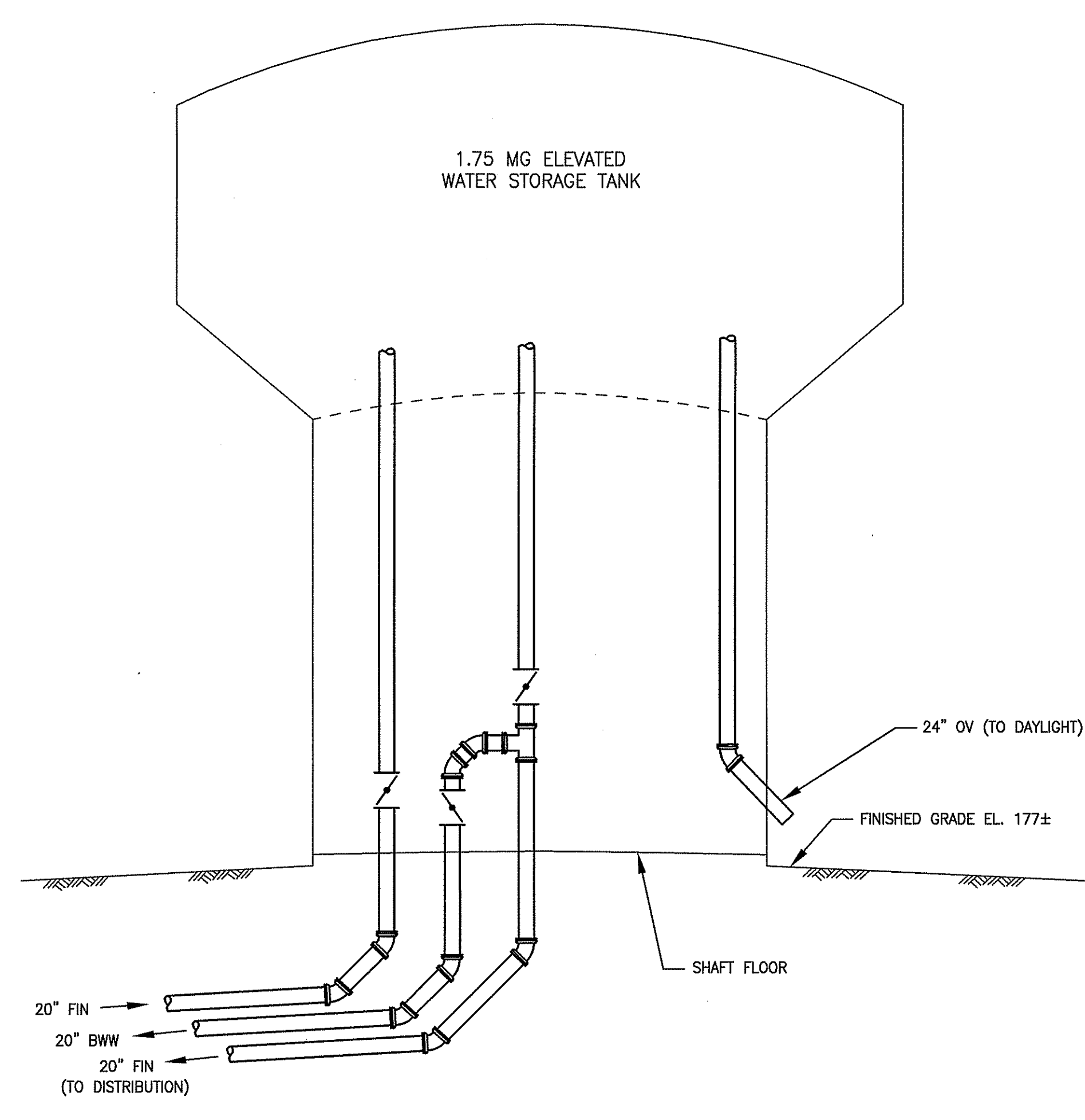
SECTION A-A



SECTION B-B

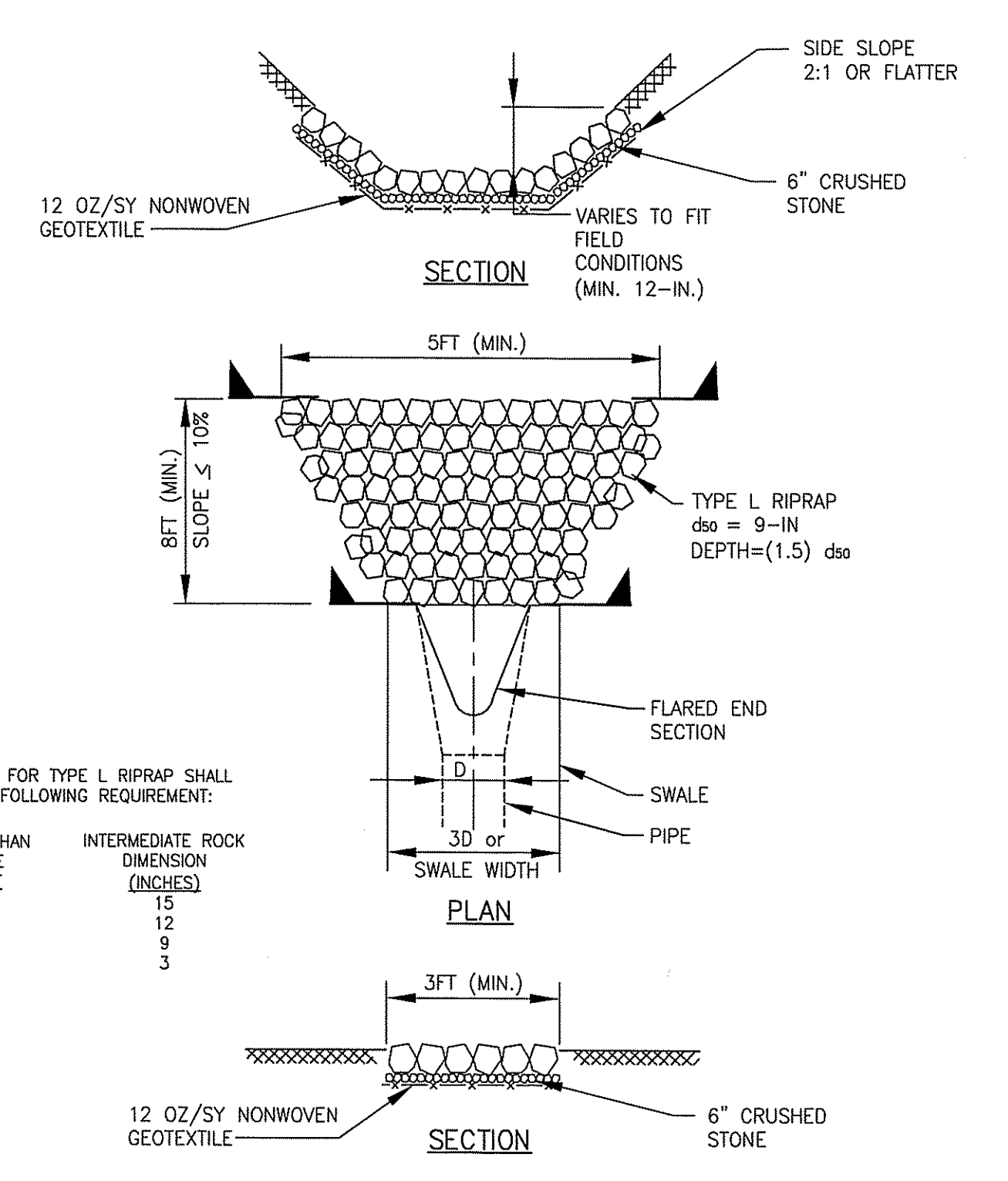
RESIDUALS VAULT AND MANHOLE DETAIL

NTS



TANK SHAFT VALVE DETAIL

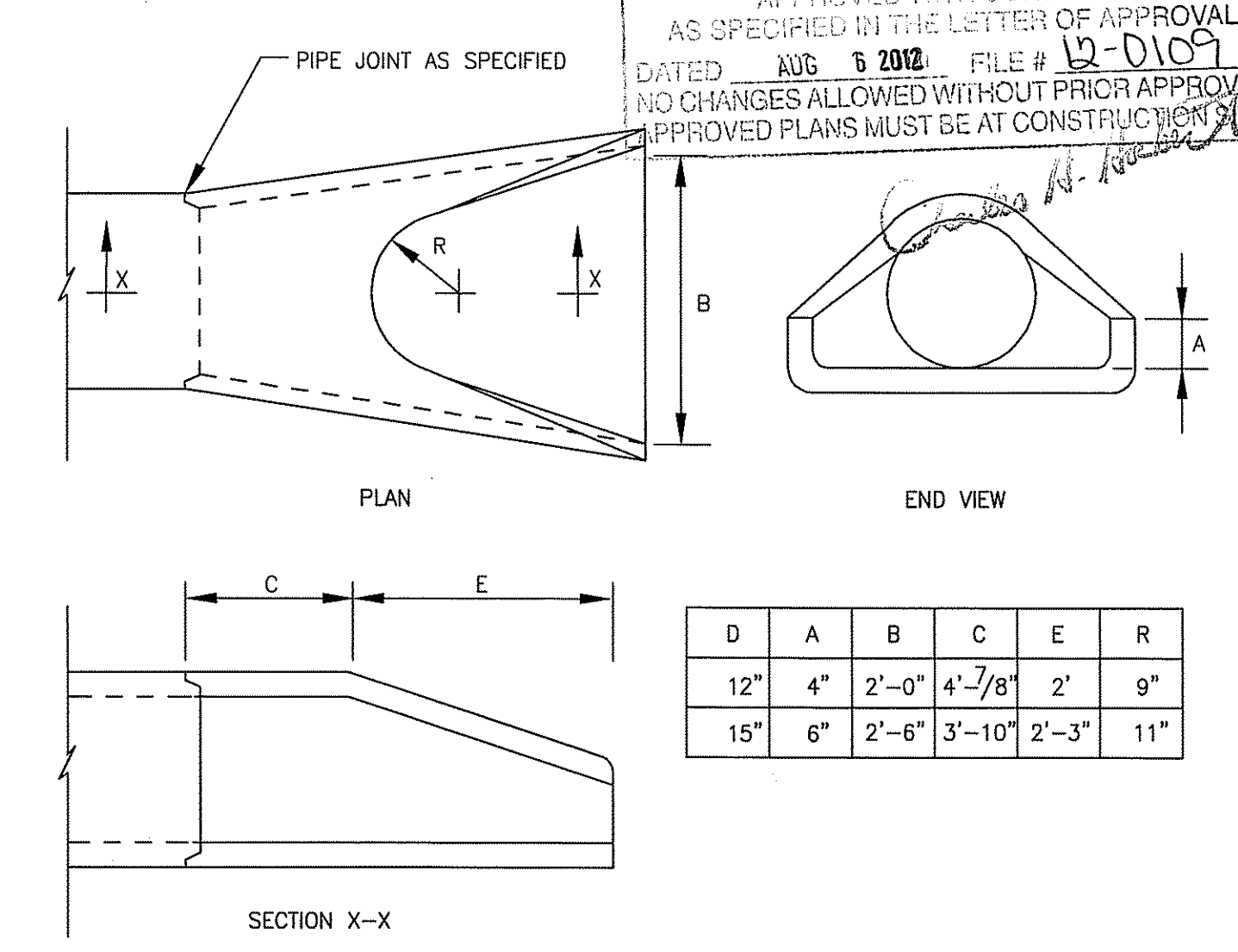
NTS



FLARED STORMWATER OUTLET

NTS

- NOTES:
- GRADATION FOR TYPE L RIPRAP SHALL MEET THE FOLLOWING REQUIREMENT:
- | % SMALLER THAN GIVEN SIZE BY WEIGHT | INTERMEDIATE ROCK DIMENSION (INCHES) |
|-------------------------------------|--------------------------------------|
| 70-100                              | 15                                   |
| 50-70                               | 12                                   |
| 35-50                               | 9                                    |
| 2-10                                | 3                                    |

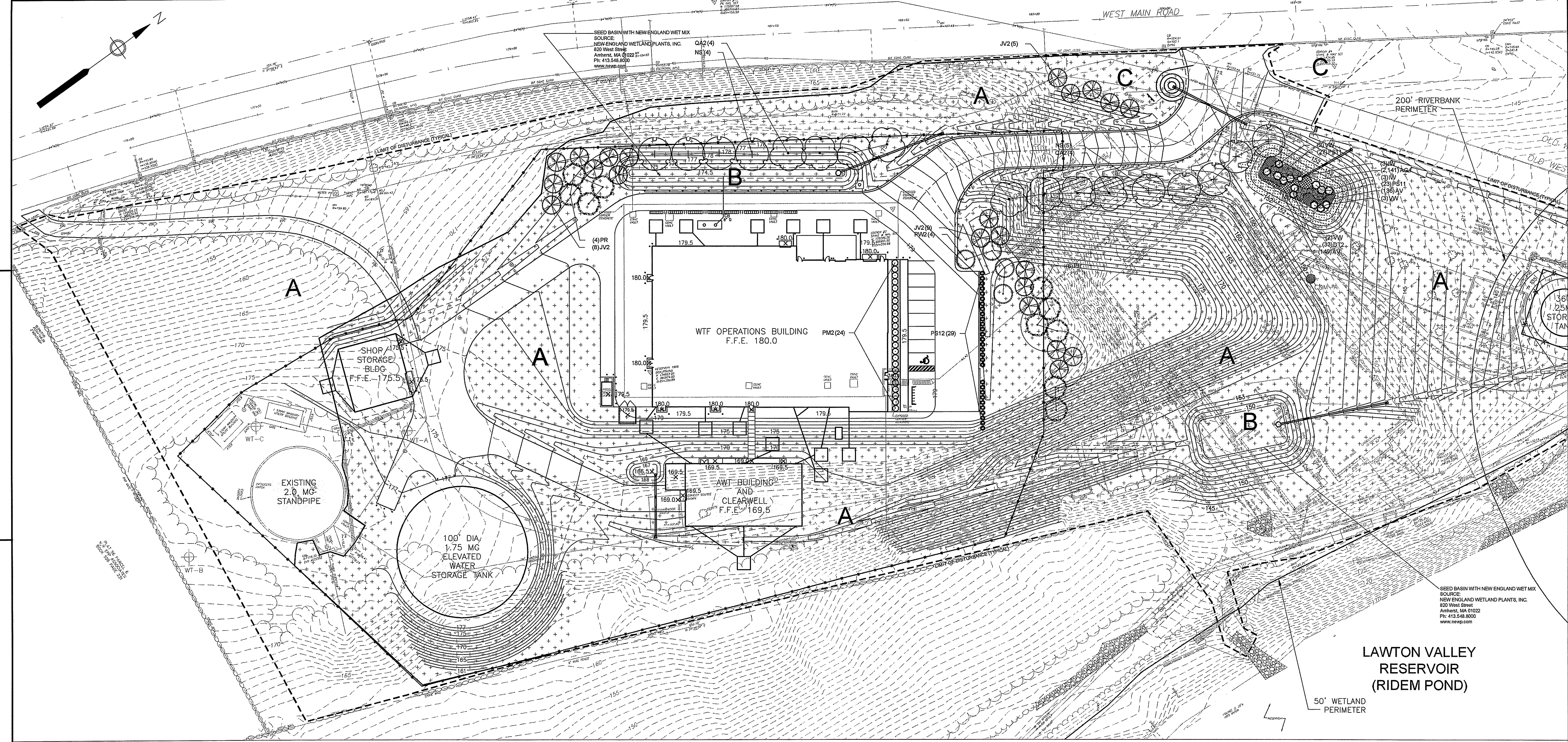


RC DRAIN FLARED INLET/OUTLET

NOT TO SCALE

NOTE: OUTLET REINFORCING TO MATCH ADJOINING PIPE SEGMENT.

<p><b>RIDEM PERMIT SUBMITTAL</b> <b>NOT FOR CONSTRUCTION</b></p>	<p>DESCRIPTION REVISIONS</p>
<p><b>AECOM</b> A Joint Venture</p>	<p><b>Nickerson</b> General Contractors</p>
<p>CHRISTOPHER J. SCHMITT No. 9892 REGISTERED PROFESSIONAL ENGINEER CIVIL</p>	<p>DATE MADE BY CHECKED</p>
<p>CITY OF NEWPORT, RHODE ISLAND LAWTON VALLEY WATER TREATMENT FACILITY</p>	
<p><b>CIVIL DETAILS IV</b></p>	
<p>PROJECT NO: 60240199 CAD DWG FILE: 99 C-504_RIDEM DESIGNED BY: C. SCHMITT DRAWN BY: W. BALETSA DEPT CHECK: C. BENZIGER PROJ CHECK: R. POGODZIENSKI DATE: JUNE 2012 SCALE: AS NOTED</p>	
<p><b>99 C-504</b> SHEET OF</p>	



ANSI D - 26 - Jun-12

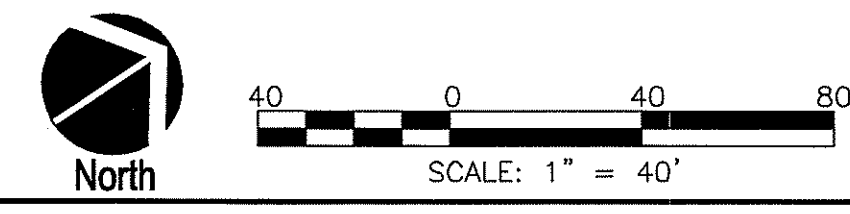
**SEEDING NOTES:**

1. **AREA 'A'** WITHIN THE LIMIT OF DISTURBANCE (SEE PLAN) SHALL BE SEEDED WITH NEW ENGLAND CONSERVATION/WILDLIFE MIX UNLESS OTHERWISE NOTED ON PLAN. DESCRIPTION OF CHARACTERISTICS AND SEED SPECIES AT LEFT.
2. **AREA 'B'** RETENTION POND AREAS SHALL BE SEEDED WITH NEW ENGLAND WET MIX (2 AREAS-SEE PLAN.) DESCRIPTION OF CHARACTERISTICS AND SEED SPECIES AT LEFT.
3. **AREA 'C'** ADJACENT TO ENTRANCE SHALL BE SEEDED WITH URI NO. 2 GRASS SEED MIX.

SEE SHEET 00L-403 FOR PLANT SCHEDULE

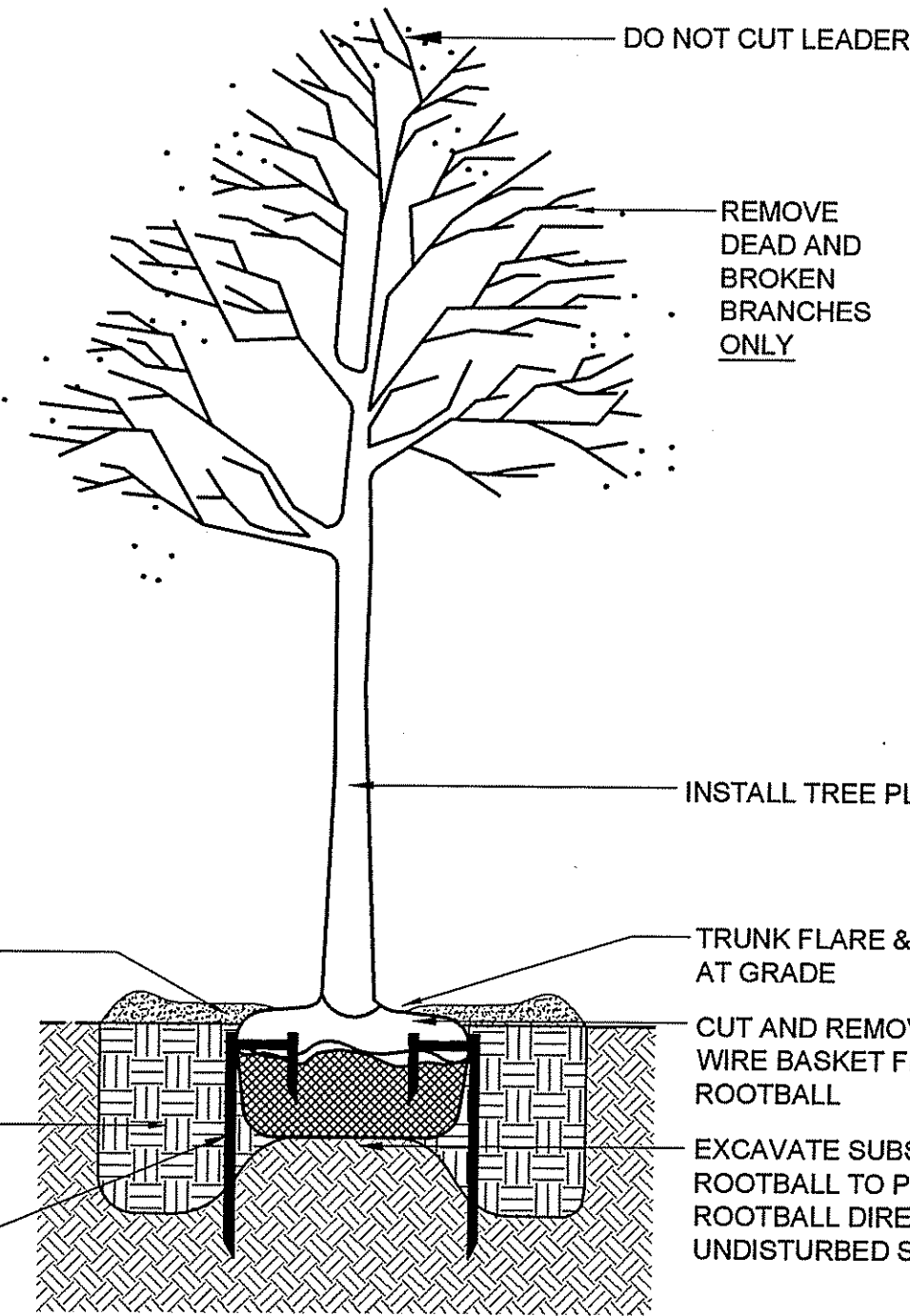
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED AUG 6 2012 FILE # 12-0109  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

DIANE C. Soule  
**SOULE & ASSOCIATES, ASLA**  
 LANDSCAPE ARCHITECTURE • GRAPHICS • DESIGN  
 Smithfield, Rhode Island 401.231.0736 e-mail: diane@DCSA.ws



 A Joint Venture  GENERAL CONTRACTORS	<b>RIDEM PERMIT SUBMITTAL</b> <b>NOT FOR CONSTRUCTION</b>	MARK DATE MADE BY CHECKED REVISIONS	
CITY OF NEWPORT, RHODE ISLAND LAWTON VALLEY WATER TREATMENT FACILITY <b>LANDSCAPE PLAN I</b> CIVIL			
PROJECT NO: 60240199 CAD DWG FILE: 401-403_RIDEM DESIGNED BY: DCSA DRAWN BY: D. SOULE DEPT CHECK: C. BENZIGER PROJ CHECK: R. POGODZIENSKI DATE: JUNE 2012 SCALE: AS NOTED <b>00 L-401</b> SHEET OF			

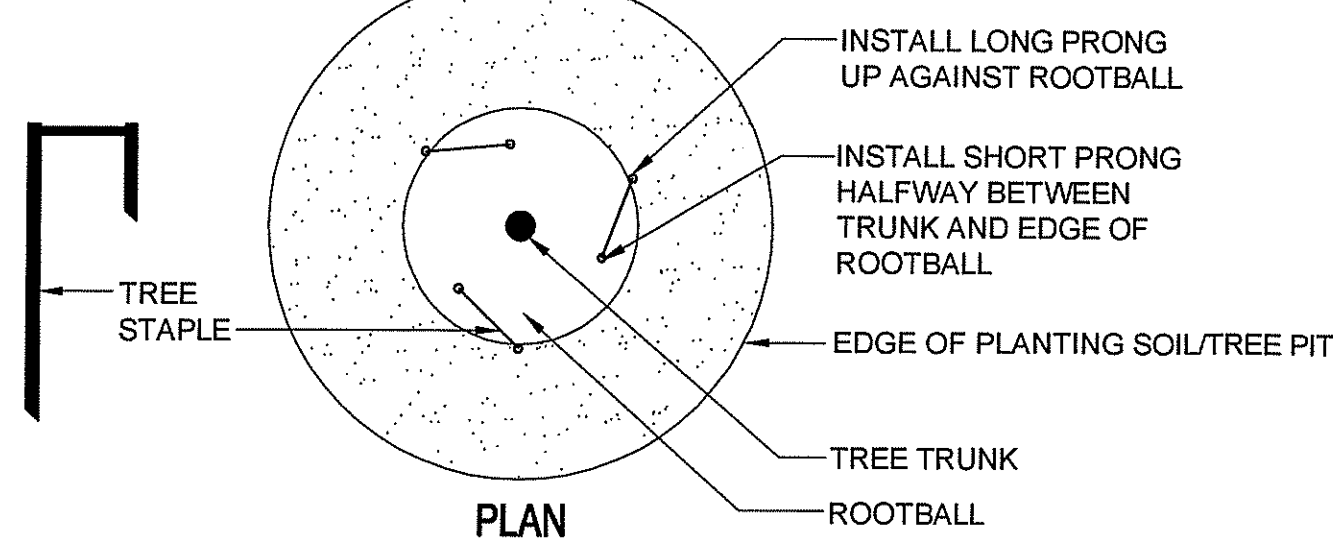




SECTION

TREE PLANTING DETAIL

no scale

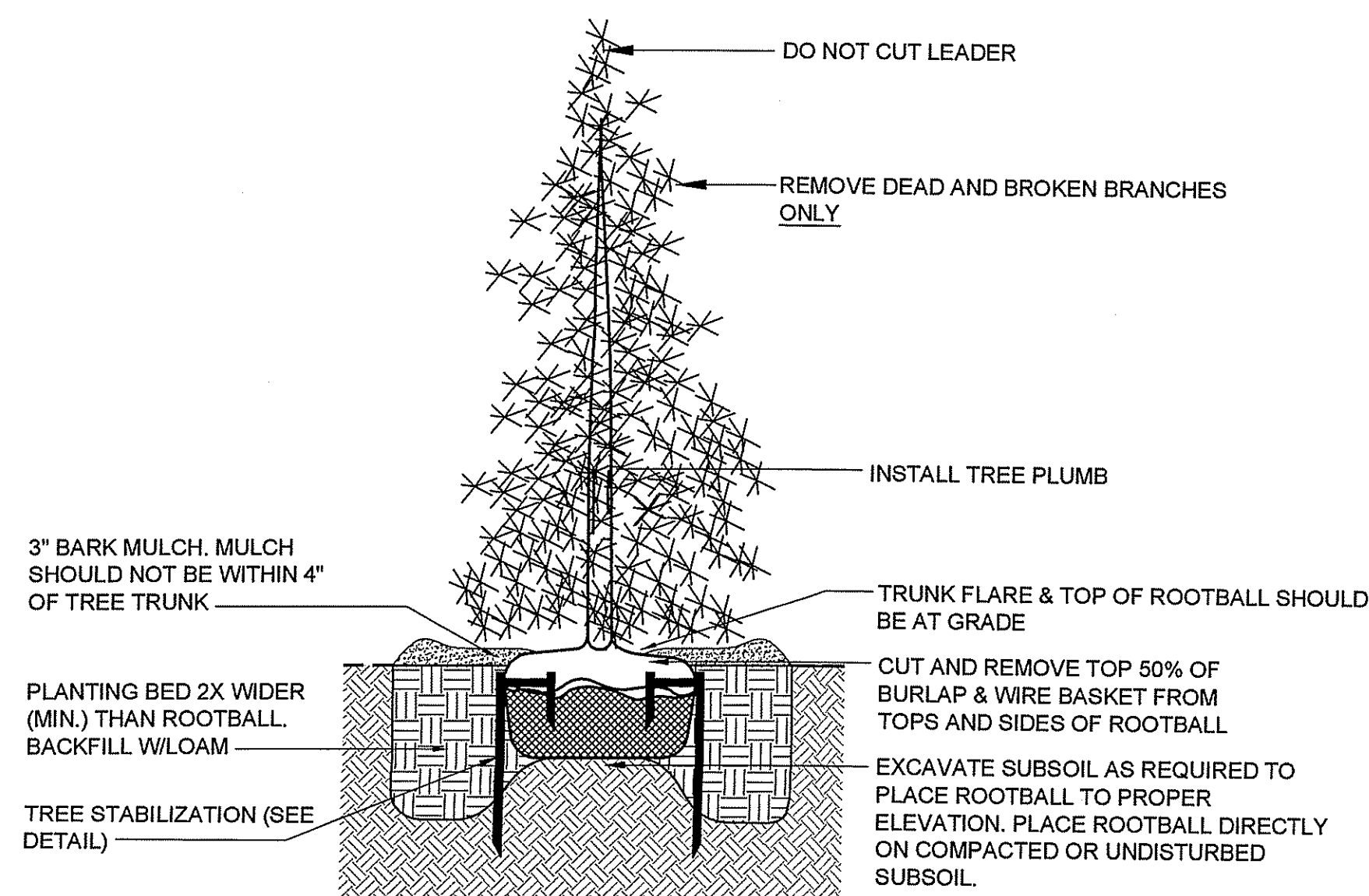


PLAN

NOTE: CONTRACTOR SHALL USE CAUTION WITH TREE STAPLES SO NOT TO BE DRIVEN INTO SUBGRADE PIPES AND UTILITIES

STAKING DETAIL

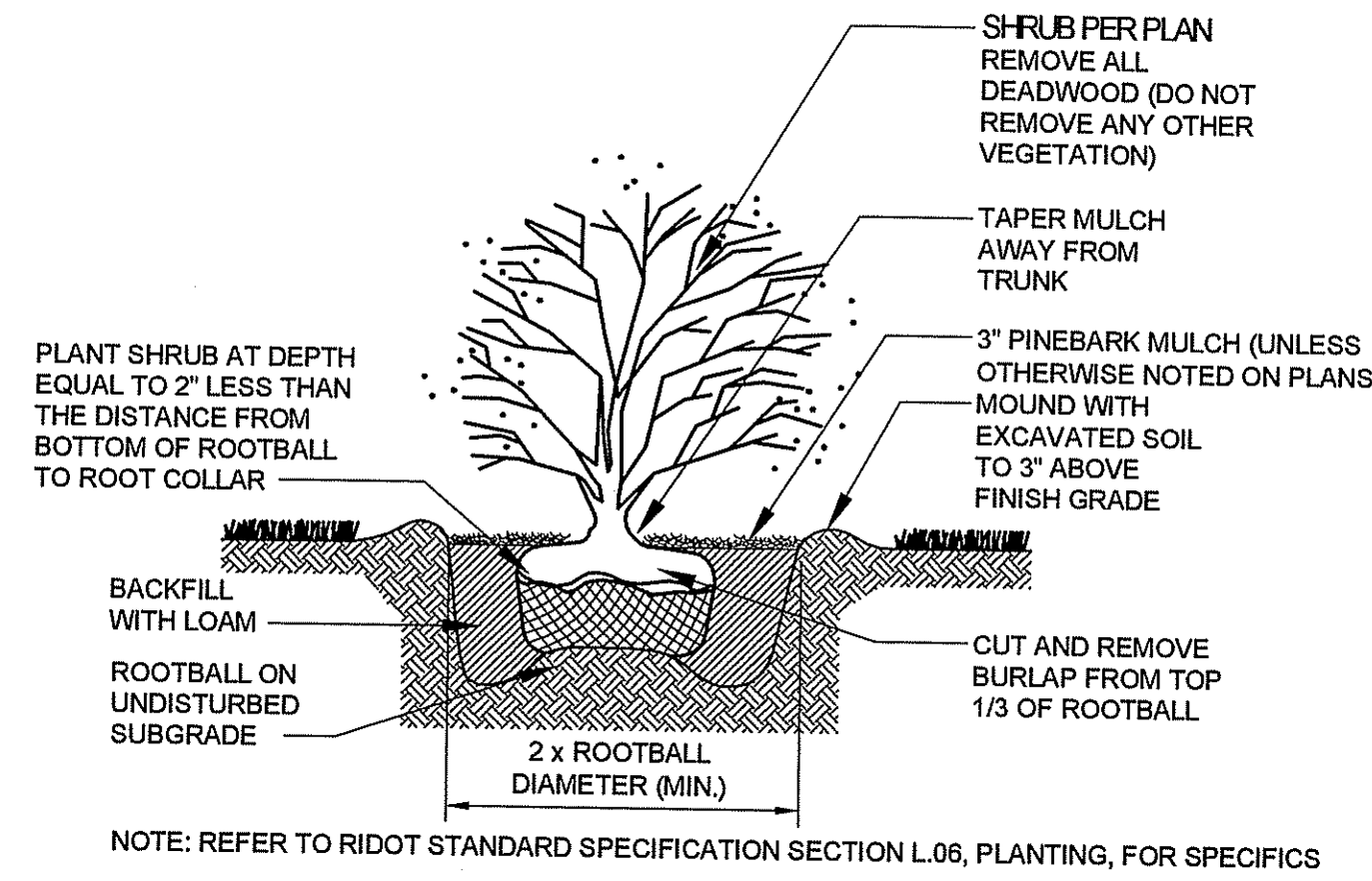
no scale



SECTION

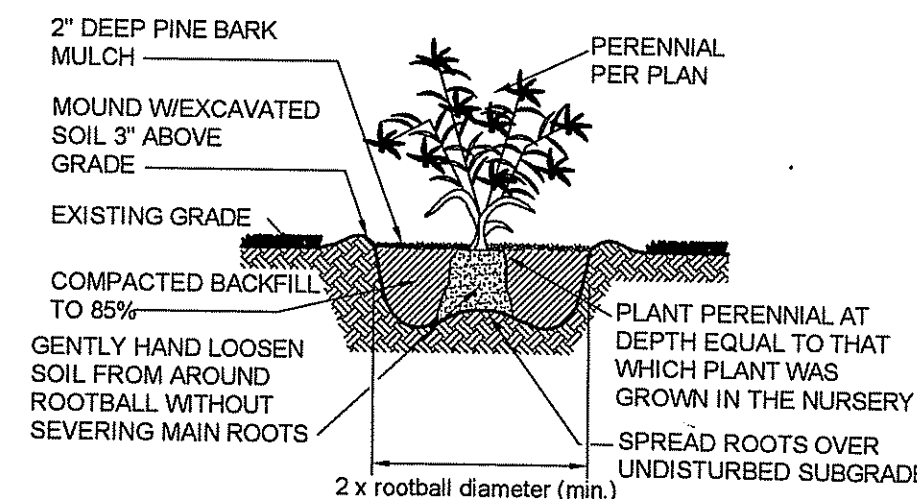
EVERGREEN TREE PLANTING DETAIL

no scale



SHRUB PLANTING DETAIL

no scale



PERENNIAL PLANTING DETAIL

no scale

**NEW ENGLAND WETLAND PLANTS, INC**  
 820 WEST STREET, AMHERST, MA 01002  
 PHONE: 413.548.8000 FAX: 413.549.4000  
 EMAIL: INFO@NEWP.COM WEB ADDRESS: WWW.NEWP.COM

**New England Conservation/Wildlife Mix**

BOTANICAL NAME	COMMON NAME	IND.
ELYMUS VIRGINICUS	VIRGINIA WILD RYE	FACW
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	FACU
ANDROPOGON GERARDII	BIG BLUESTEM	FAC
PESTUCA HUBRA	CREEPING RED PESCUE	FACU
PANICUM VIRGATUM	SWITCH GRASS	FAC
CHAMAECRISTA FASCICULATA	PARTRIDGE PEA	FACU
PANICUM CLANDESTINUM	DEER TONGUE	FAC+
SORGHASTRUM NUTANS	INDIAN GRASS	UPL
ASCLEPIAS SYRIACA	COMMON MILKWEED	FACU
HELIOPSIS HELIANTHOIDES	OX EYE SUNFLOWER	UPL
EUPATORIUM PURPUREUM	PURPLE JOE PYE WEED	FAC
EUTHAMIA GRAMINIFOLIA	GRASS LEAVED GOLDENROD	FAC
VERBENA HASTATA	BLUE VERVAIN	FACW
ZIZIA AUREA	GOLDEN ALEXANDERS	FAC
ASTER UMBELLATUS	FLAT TOPPED/UMBRELLA ASTER	FACW
SOLIDAGO JUNCEA	EARLY GOLDENROD	NI

PRICE PER LB. \$30.00  
 MIN. QUANTITY: 2 LBS.  
 TOTAL \$60.00  
 APPLY: 25 LBS./ACRE  
 MINIMUM QUANTITY: 2 LBS.

The New England Conservation/Wildlife Mix provides a permanent cover of grasses, wildflowers and legumes to provide both good erosion control and wildlife habitat value. This mix is designed to be a no maintenance seeding, and it is appropriate to cut and fill slopes, detention basin slopes, and disturbed areas adjacent to commercial and residential projects. Always apply on clean bare soil. The mix may be applied by hydro-seeding, by mechanical spreader, or on small sites it can be spread by hand. Lightly rake, or roll to ensure proper seed to soil contact. Best results are obtained with a Spring seeding. Late Spring through early Summer seeding will benefit with a light mulching of weed-free straw to conserve moisture. If conditions are drier than usual, watering will be required. Late Fall and Winter dormant seeding require an increase in the seeding rate. Fertilization is not required unless the soils are particularly infertile. Preparation of a clean weed-free soil surface is necessary for optimal results.

New England Wetland Plants, Inc. may modify seed mixes at any time depending upon seed availability. The design criteria and ecological function of the mix will remain unchanged.

Price is \$/bulk pound, FOB warehouse, plus S&H and applicable taxes.

**PLANT SCHEDULE**

DECIDUOUS TREES	CODE	QTY	COMMON NAME / BOTANICAL NAME	CONT	CAL	SIZE
	NS	9	Nyssa sylvatica 'Black Tupelo'	B & B	3"	Cal
	QA2	8	White Oak / Quercus alba	B & B	3"	Cal
EVERGREEN TREES	CODE	QTY	COMMON NAME / BOTANICAL NAME	CONT	CAL	SIZE
	JV2	22	Eastern Red Cedar / Juniperus virginiana Native to RI	B & B	6"	6' - 8' HT.
	PR	10	Pitch Pine / Pinus rigida	B&B; 6'-7' HT.		
FLOWERING TREES	CODE	QTY	COMMON NAME / BOTANICAL NAME	CONT	CAL	SIZE
	PW2	4	Wild Black Cherry / Prunus serotina	B & B	2"	Cal
SHRUBS	CODE	QTY	COMMON NAME / BOTANICAL NAME	CONT		
	PM2	24	Beach Plum / Prunus maritima	5 gal		
BIO-RETENTION	CODE	QTY	COMMON NAME / BOTANICAL NAME	CONT		
	IW	6	Winterberry / Ilex verticillata FACW	1 gal		
	VW	7	Northern Wild Raisin / Viburnum cassinoides FACW	1 gal		
GRASSES	CODE	QTY	COMMON NAME / BOTANICAL NAME	CONT		
	PS12	29	Switch Grass / Panicum virgatum	1 gal		
BIO-RETENTION	CODE	QTY	COMMON NAME / BOTANICAL NAME	CONT		
	AG4	2,141	Big Blue Stem / Andropogon gerardii FAC	plug @ 12" oc		
	AV	285	Broomsedge Bluestem / Andropogon virginicus FACU	plug @ 12" oc		
	DT2	33	Tufted Hair Grass / Deschampsia cespitosa FACW	1 gal @ 30" oc		
	PS11	50	Switch Grass / Panicum virgatum FAC to FACU	1 gal @ 30" oc		

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**New England Wetmix (Wetland Seed Mix)**

BOTANICAL NAME	COMMON NAME	IND.
CAREX VULPINOIDEA	FOX SEDGE	OBL
CAREX LURIDA	LURID SEDGE	OBL
CAREX SCOPARIA	BLUNT BROOM SEDGE	FACW
VERBENA HASTATA	BLUE VERVAIN	FACW
SCIRPUS ATROVIRENS	GREEN BULRUSH	OBL
CAREX LUPULINA	HOP SEDGE	OBL
HIDEXIS CERNUA	NODDING BUR MARIGOLD	OBL
CAREX COMOSA	BRISTLY/COSMOS SEDGE	OBL
CAREX CINNITA	FRINGED SEDGE	OBL
JUNCUS EFFLUSUS	SOFT RUSH	FACW+
SCIRPUS CYPERNIDUS	WOOL GRASS	FACW
GLYCERIA GRANDIS	AMERICAN MANNA GRASS	OBL
EUPATORIUM MACULATUM	SPOTTED JOE PYE WEED	FACW
EUPATORIUM PERFOLIATUM	BONASET	FACW
ALISMA SUBCORDATUM	MUD PLANTAIN	OBL
ASTER PUNICEUS	PURPLE STEMMED ASTER	OBL
GLYCERIA CANADENSIS	RATTLESNAKE GRASS	OBL
SCIRPUS VALIDUS	SOFT STEM BULRUSH	OBL
ASCLEPIAS INCARNATA	SWAMP MILKWEED	OBL
MIMULUS RINGENS	SQUARE STEMMED MONKEY FLOWER	OBL

PRICE PER LB. \$125.00  
 REQ. QUANTITY: 1 LBS.  
 TOTAL \$125.00  
 APPLY: 18 LBS./ACRE  
 MINIMUM QUANTITY: 1 LBS.

The New England Wetmix (wetland seed mix) contains a wide variety of native seeds which are suitable for most wetland restoration sites that are not permanently inundated. All species are best suited to moist disturbed ground as found in most wetland restoration sites, or forested wetland restoration areas. This mix is well suited for detention basin borders, and the bottom of detention basins not generally under standing water. The seeds will not germinate under inundated conditions. During the first year of growth, several species will produce seeds, while other species will produce seeds after the second growing season. Not all species will grow in all wetland situations. This mix is composed of the wetland species most likely to grow in created/restored wetlands and should produce more than 75% ground cover in two full growing seasons. Always apply on clean bare soil. The mix may be applied by hydro-seeding, by mechanical spreader, or on small sites it can be spread by hand. Lightly rake, or roll to ensure proper seed to soil contact. Best results are obtained with a Spring seeding. Late Spring and early summer seeding will benefit with a light mulching of clean, weed-free straw to conserve moisture. If conditions are drier than usual, watering may be required. Late Fall and Winter dormant seeding require an increase in the seeding rate. Fertilization is not recommended. Preparation of a clean weed free seed bed is necessary for optimal results.

New England Wetland Plants, Inc. may modify seed mixes at any time depending upon seed availability. The design criteria and ecological function of the mix will remain unchanged.

Price is \$/bulk pound, FOB warehouse, plus S&H and applicable taxes.

DIANE C.  
**SOULE & ASSOCIATES, ASLA**  
 LANDSCAPE ARCHITECTURE • GRAPHICS • DESIGN  
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RIDEM PERMIT SUBMITTAL NOT FOR CONSTRUCTION

**Nickerson**  
 GENERAL CONTRACTORS

**AECOM**  
 A Joint Venture

CITY OF NEWPORT, RHODE ISLAND  
 LAWTON VALLEY WATER TREATMENT FACILITY

LANDSCAPE DETAILS

PROJECT NO:	60240199
CAD DWG FILE:	401-403_RIDEM
DESIGNED BY:	DCSA
DRAWN BY:	D. SOULE
DEPT CHECK:	C. BENZIGER
PROJ CHECK:	R. POGODZIENSKI
DATE:	JUNE 2012
SCALE:	AS NOTED

**00 L-403**  
 SHEET OF