

Hopkins Pond

27 Unit Condo Development

A.P. 44/4 Lot 26 Central Avenue
Johnston, Rhode Island

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Permitting Set

Owner / Applicant

Drywater, LLC
51 Sockanosett Cross Road
Cranston, RI 02920

Aerial Location Map

0 200 400 800
PLAN SCALE 1"=400'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 23 2018 FILE # 17-0274
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Yvonne D. Weneck

MAY 7 2018

Advanced Civil Design, Inc.

SITE/CIVIL ENGINEERS
88 PEEPTOAD ROAD
SCITUATE, RI 02857
PH: (401) 644-8656



NO.	DATE	REVISION
3	MAY-2018	RIDEM COMMENTS
2	APR-2018	RIDOT COMMENTS
1	FEB-2018	LAYOUT & DRAINAGE, RIDEM COMMENTS

PROJECT TITLE:
Hopkins Pond
A.P. 44/4 LOT 26
Central Avenue
Johnston, RI

PREPARED FOR:
Drywater, LLC
51 Sockanosett Cross Road
Cranston, RI 02920

DRAWING TITLE:
Coversheet

DATE: SEPTEMBER 2017 DRAWN BY: C.S.R.
SCALE: AS NOTED CHECKED BY: N.J.P.

NICHOLAS J. PIAMPIANO No. 6512 REGISTERED PROFESSIONAL ENGINEER (CIVIL)	C-1 SHEET 1 OF 14

Construction Sequence Notes

1. SURVEY LOCATE AND INSTALL PERIMETER EROSION CONTROL MEASURES AS DEPICTED ON PLANS;
2. DEMO SITE FEATURES AND BEGIN TREE CLEARING AND GRUBBING OPERATIONS FOR ROADWAY, STORMWATER FACILITIES, AND STOCKPILE LOCATIONS;
3. INSTALL ANTI-TRACKING PAD AT SITE ENTRANCE AND SEDIMENT BASINS & SWALES AS SHOWN;
4. STRIP TOPSOIL & STOCKPILE WITH PROPER PERIMETER EROSION CONTROLS;
5. CUT AND FILL TO SITE SUBGRADES;
6. REPEAT OPERATION #1-6 FOR PHASING OPERATION AS REQUIRED;
7. INSTALL DRAINAGE, SEWER, AND WATER UTILITIES;
8. INSTALL GRAVEL BASE AND BITUMINOUS CONCRETE BINDER COURSE FOR ROADWAY AND VISITOR PARKING AREAS;
9. BEGIN FOUNDATION AND BUILDING CONSTRUCTION;
10. INSTALL SEWER AND WATER LATERALS TO FOUNDATIONS;
11. INSTALL ROOF DRAINS AND CLEANOUTS;
12. COORDINATE WITH NATIONAL GRID AND INSTALL LIGHTING, ELECTRIC, TEL-DATA, CABLE, AND GAS UTILITIES;
13. INSTALL GRAVEL AND BITUMINOUS CONCRETE AT BUILDING DRIVEWAYS;
14. INSTALL SITE SIGNAGE AND OTHER SITE FEATURES AS SHOWN;
15. SCREEN AND RE-SPREAD LOAM FROM STOCKPILE;
16. INSTALL SEEDING, SODDING, TREES, AND PLANTINGS IN COORDINATION WITH FINISH BUILDING CONSTRUCTION AND PEDESTRIAN WALKWAYS;
17. SWEEP AND INSTALL BITUMINOUS CONCRETE TOP COURSE, INCLUDING ANY PAVEMENT MARKINGS;
18. REMOVE PERIMETER EROSION CONTROLS ONCE VEGETATION HAS ESTABLISHED;
19. INSPECT AND CLEAN ANY SEDIMENT FROM STORMWATER TREATMENT BASINS, CATCH BASINS, AND PIPING.

Construction (Short-Term) BMP Maintenance

1. THE OWNER AND CONTRACTOR WILL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE TEMPORARY STORMWATER FACILITIES, SLOPE PROTECTION, AND ALL EROSION CONTROLS DEPICTED ON THESE PLANS. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DURING CONSTRUCTION AND PHASING OPERATIONS.

2. A SOIL EROSION AND SEDIMENT CONTROL (SESC) PLAN HAS BEEN PREPARED BY ADVANCED CIVIL DESIGN, INC. AND SUBMITTED TO RIDEM. THE SITE CONTRACTOR AND/OR OPERATOR SHALL MAINTAIN A COPY OF THIS PLAN ON-SITE, INCLUDING ALL INSPECTION REPORTS, AND MAKE MODIFICATIONS TO THE PLAN AS REQUIRED DURING CONSTRUCTION.

3. THE TEMPORARY CONSTRUCTION BMPs WILL BE MAINTAINED AS FOLLOWS:

STRAW WATTLES, HAYBALES, OR SILT FENCE
 WHERE: BOTTOM SLOPE OF LAND DISTURBING ACTIVITY
 WHEN: EVERY 7 DAYS AND EACH RAINFALL AMOUNT OF 0.25" AND GREATER.
 MAINTENANCE: REPLACE OR REPAIR IMMEDIATELY FOLLOWING RAIN EVENT.
 TAKE PICTURES AND DOCUMENT RESTORATION, ACCUMULATED SEDIMENT BEHIND THE CONTROL IS NECESSARY IF 1/4 OF THE ORIGINAL HEIGHT OF THE CONTROL BECOMES FILLED WITH SEDIMENT.

ANTI-TRACKING PAD
 WHERE: SITE ENTRANCES
 WHEN: AS REQUIRED
 MAINTENANCE: REMOVE AND REPLACE RIP-RAP IF RIP-RAP BECOMES FILLED WITH SEDIMENT AND WHEN ANTI-TRACKING PAD IS NOT MAINTAINING A CLEAN RIGHT-OF-WAY.

SILT SACK
 WHERE: CATCH BASINS
 WHEN: EVERY 7 DAYS AND WITHIN 24 HOURS AFTER EACH RAINFALL AMOUNT 0.25" AND GREATER
 MAINTENANCE: REMOVE AND DISPOSE SEDIMENT FROM SITE.

TEMPORARY SEEDING OR HAY
 WHERE: LANDSCAPE AREAS
 WHEN: AS REQUIRED
 MAINTENANCE: RE-SEED ANY ERODED OR BARE AREAS. IF HAY IS USED, INSTALL NEW HAY IF BARE SOIL IS SHOWING.

EROSION CONTROL MAT SLOPE PROTECTION
 WHERE: SLOPES > 3%
 WHEN: NOTICEABLE WASHOUTS
 MAINTENANCE: SEE MANUFACTURER RECOMMENDATIONS.

4. PICTURES SHALL BE TAKEN TO DOCUMENT MAINTENANCE ALONG WITH FILLING OUT THE MAINTENANCE AND CORRECTIVE ACTION LOGS WITHIN THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
5. INSPECTION REPORTS WILL BE COMPLETED AND MAINTAINED FOR FIVE (5) YEARS FROM DATE OF STABILIZATION.

Long-Term BMP/Stormwater System O&M

1. A STORMWATER FACILITY OPERATION AND MAINTENANCE (O&M) PLAN HAS BEEN PREPARED FOR THIS DEVELOPMENT.
2. THE CONDOMINIUM ASSOCIATION WILL BE RESPONSIBLE FOR THE LONG-TERM MAINTENANCE OF THE STORMWATER FACILITIES AND FUNDING THEREOF.
3. A LEGALLY BINDING AGREEMENT HAS BEEN OR WILL BE PREPARED FOR THE OPERATION AND MAINTENANCE OF THE STORMWATER FACILITIES AND MUST BE RECORDED WITH THE PROPERTY DEED IN THE TOWN OF JOHNSTON LAND EVIDENCE RECORDS.

General Site Construction Notes

1. CONTRACTOR SHALL NOTIFY "DIG-SAFE" (1-888-344-7233) AT LEAST 72 HOURS BEFORE EXCAVATING.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
3. ADA ACCESSIBLE ROUTES INCLUDING PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT.
4. ALL AREAS AFFECTED BY CONSTRUCTION SHALL BE STABILIZED AND/OR RESTORED.
5. OWNER OR CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK.

Layout & Materials

1. DIMENSIONS SHOWN ARE FROM FACE OF CURB/BERM, FACE OF BUILDING, AND FACE OF WALL UNLESS SPECIFIED OTHERWISE.
2. CURBING SHALL BE PRECAST CONCRETE CURB AT ENTRANCE RADII. ALL OTHER CURB SHALL BE BITUMINOUS BERM OR BITUMINOUS CURB.
3. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND DETAILS CONTIGUOUS TO THE BUILDING INCLUDING ENTRANCE LOCATIONS, STAIRWAYS, UTILITY PENETRATIONS, ETC.
4. THE SITE CONTRACTOR SHALL OBTAIN SERVICES OF A REGISTERED LAND SURVEYOR TO LAYOUT BUILDING CORNERS AND ASSOCIATED OFFSETS AS WELL AS PROVIDE AT LEAST ONE (1) CONTROL POINT.
5. CONTRACTOR SHALL VERIFY LOCATIONS OF SITE FEATURES AND UNDERGROUND UTILITIES. ANY DISCREPANCIES SHALL BE NOTED AND THE SITE CONTRACTOR SHALL NOTIFY THE CIVIL ENGINEER THESE CONDITIONS CAUSE CONCERN OR POTENTIAL ISSUES.
6. SYMBOLS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE SITE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURER'S LITERATURE, SHOP DRAWINGS, AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.

Construction Waste Management

1. BUILDING MATERIALS AND OTHER CONSTRUCTION SITE WASTES MUST BE PROPERLY MANAGED AND DISPOSED OF TO PREVENT THE DISCHARGE OF SOLID MATERIALS FROM WIND AND PRECIPITATION. ALL TYPES OF WASTE GENERATED AT THE SITE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH STATE LAW AND/OR REGULATIONS.

2. A WASTE COLLECTION AREA SHALL BE DESIGNATED ON THE SITE THAT DOES NOT RECEIVE A SUBSTANTIAL AMOUNT OF RUNOFF FROM UPLAND AREAS.

3. ALL WASTE CONTAINERS SHALL BE COVERED TO AVOID CONTACT WITH WIND AND PRECIPITATION.

4. WASTE COLLECTION SHALL BE SCHEDULED FREQUENTLY ENOUGH TO PREVENT CONTAINERS FROM OVERFILLING.

5. ALL CONSTRUCTION SITE WASTES SHALL BE COLLECTED, REMOVED, AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS AND ONLY AT AUTHORIZED DISPOSAL SITES.

6. EQUIPMENT AND CONTAINERS SHALL BE CHECKED FOR LEAKS, CORROSION, SUPPORT OR FOUNDATION FAILURE, OR OTHER SIGNS OF DETERIORATION. THOSE THAT ARE FOUND TO BE DEFECTIVE SHALL BE IMMEDIATELY REPAIRED OR REPLACED.

Establishment of Vegetative Cover

1. SLOPES SHALL NOT BE LEFT UNTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.

2. PLANTABLE SOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM WITH RHODE ISLAND'S STANDARD SPECIFICATIONS, AS AMENDED.

3. THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING:

TYPE	LBS./ACRE
CREeping RED FESCUE	75
KENTUCKY BLUE GRASS	15
COLONIAL BENT GRASS	5
PERENNIAL RUE GRASS	5

4. EARLY SPRING OR LATE SUMMER SEEDING IS RECOMMENDED. ADD LIME, FERTILIZER, OR COMPOST TO STRIPPED AND SCREENED TOPSOIL AS REQUIRED FROM TESTING.

5. THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.

6. THE RECOMMENDED SEEDING DATES ARE APRIL 1ST THROUGH JUNE 15 AND AUGUST 15 THROUGH SEPTEMBER 30. TEMPORARY TREATMENTS SHALL CONSIST OF NORTH AMERICAN GREEN S1508R OR APPROVED EQUAL. THEY SHALL BE INCORPORATED INTO THE WORK AS SHOWN ON THE PLANS.

7. HAY OR STRAW APPLICATIONS SHALL BE IN THE AMOUNT OF 2 TONS/ACRE. ALL HAY BALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED. ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 202.

8. STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAY. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 2:1.

9. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISH GRADING. PERMANENTLY SEEDING AREAS SHALL BE PROTECTED DURING ESTABLISHMENT WITH MULCH. ALL SEEDING AREAS WILL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHALL BE FERTILIZED AND RESEEDING AS NECESSARY.

10. REFERENCE THE "RHODE ISLAND EROSION AND SEDIMENTATION CONTROL HANDBOOK" PREPARED BY THE USDA SOIL CONSERVATION SERVICE AS A GUIDE. TEMPORARY HAY MULCH TO BE TACKED IN PLACE WITH NYLON MESH NETTING. MAXIMUM GRADED SLOPE WITHIN THE SITE TO BE 3:1, UNLESS SPECIFIED OTHERWISE.

Soil Erosion & Sediment Control Notes

1. A SOIL EROSION AND SEDIMENT CONTROL (SESC) PLAN HAS BEEN PREPARED BY ADVANCED CIVIL DESIGN, INC. AND SUBMITTED TO RIDEM. THE SITE CONTRACTOR AND/OR OPERATOR SHALL MAINTAIN A COPY OF THIS PLAN ON-SITE, INCLUDING ALL INSPECTION REPORTS, AND MAKE MODIFICATIONS TO THE PLAN AS REQUIRED DURING CONSTRUCTION. ALL RECORDS SHALL BE RETAINED FOR A MINIMUM OF FIVE (5) YEARS FROM THE DATE OF THE REPORT.

2. ALL DISTURBED AREAS SHALL BE SEEDING, PROTECTED, AND MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL CHECK REGULARLY ALL SEEDING AREAS TO SEE THAT A GOOD STAND IS MAINTAINED.

3. THE CONTRACTOR MUST STABILIZE (SEED) ALL AREAS WITHIN 14 DAYS UNLESS ACTIVITY RESUMES WITHIN 21 DAYS.

4. EROSION CONTROLS SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.

5. THE CONTRACTOR SHALL MAINTAIN ALL TOP SOIL STOCKPILES AND SEDIMENT BARRIERS THROUGHOUT CONSTRUCTION. EXTREME CARE SHALL BE TAKEN TO ENSURE THAT SEDIMENTS DO NOT SPILL OVER THE SEDIMENT BARRIER.

6. EROSION CONTROL BARRIER SHALL BE MONITORED BY THE CONTRACTOR ON A WEEKLY BASIS AND AFTER EACH STORM FOR UNDERMINING OR DETERIORATION. CONTRACTOR SHALL REPAIR OR REPLACE AS NECESSARY.

7. CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE EROSION CONTROL BECOMES FILLED IN WITH SEDIMENTS.

8. THE STONE STABILIZATION PAD AT THE SITE ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR. THE MAINTENANCE SHALL INCLUDE TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND.

9. ALL SEDIMENTS SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.

10. PRIOR TO SITE CONTRACTOR DEMOBILIZING FROM SITE, FLUSH DRAIN PIPES AND REMOVE SEDIMENT FROM WATER QUALITY STRUCTURES, UNDERGROUND DETENTION SYSTEM, AND DETENTION POND.

Drainage & Utility Notes

1. THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY BASED ON BEST AVAILABLE INFORMATION. THE OWNER OR ITS REPRESENTATIVE(S) MUST VERIFY THIS INFORMATION PRIOR TO START OF CONSTRUCTION.

2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, OR EXISTING CONDITIONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED BY THE CONTRACTOR. THE INFORMATION SHALL BE FURNISHED IN WRITING TO THE ENGINEER FOR THE RESOLUTION OF ANY CONFLICT.

3. EXISTING UTILITIES SHALL BE TERMINATED, UNLESS OTHERWISE NOTED, IN CONFORMANCE WITH LOCAL, STATE, AND UTILITY COMPANY STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE UTILITY SERVICE DISCONNECTS WITH THE UTILITY REPRESENTATIVES.

4. MATERIALS, INSTALLATION, TESTING, AND/OR DISINFECTION OF WATER MAINS, LATERALS, HYDRANTS, FITTINGS, BENDS, THRUST BLOCKS, ETC. SHALL BE IN ACCORDANCE WITH PROVIDENCE WATER SUPPLY BOARD RULES AND REGULATIONS (WWW.PROVWATER.COM/NODE/193).

5. MATERIALS, INSTALLATION, AND TESTING OF SEWER MAINS, LATERALS, MANHOLES, FITTINGS, ETC. SHALL BE IN ACCORDANCE WITH NARRAGANSETT BAY COMMISSION (NBC) RULES AND REGULATIONS.

6. ALL CATCH BASINS AND DRAIN MANHOLES SHALL BE 4 FT. DIAMETER, UNLESS SPECIFIED OTHERWISE. CATCH BASINS SHALL UTILIZE HOODS AT THE OUTLET PIPE.

7. SET CATCH BASIN RIMS, INVERTS OF DRAINS AND GRADE DITCHES IN ACCORDANCE WITH ELEVATIONS ON THE GRADING AND UTILITY PLANS.

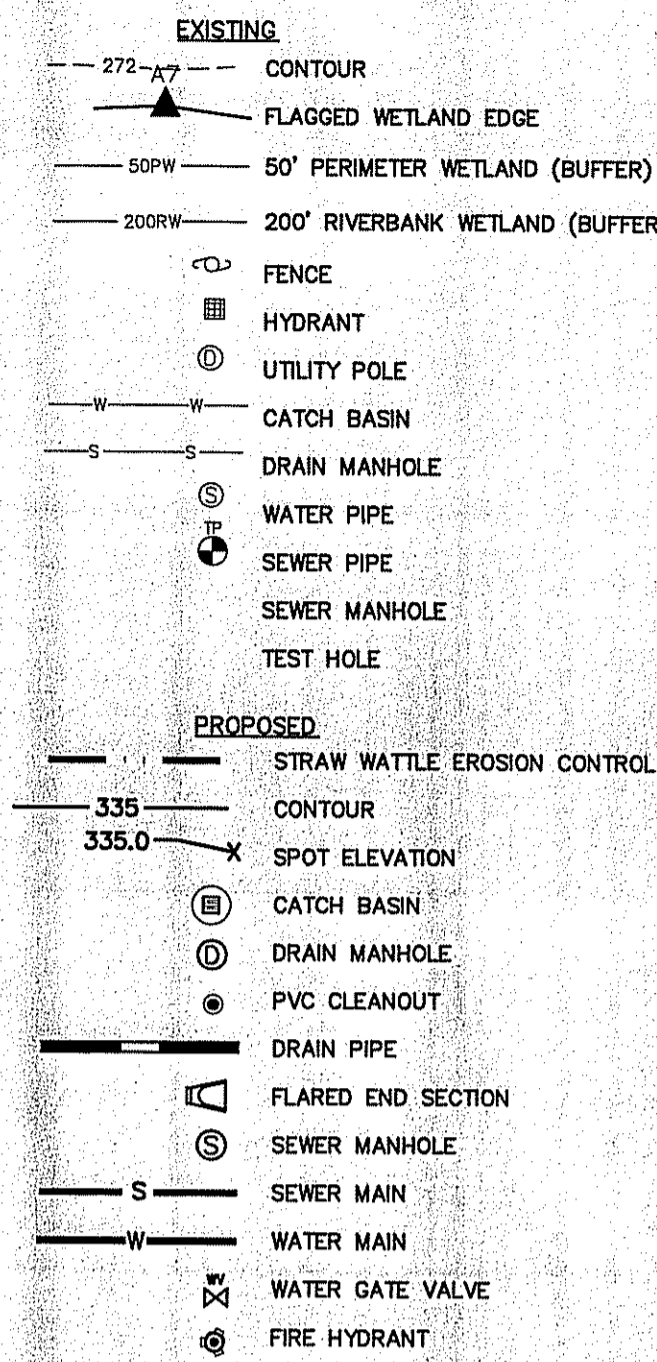
8. RIM ELEVATIONS FOR MANHOLES, WATER VALVE COVERS, GAS GATES, ELECTRIC AND TELEPHONE PULL BOXES, AND MANHOLES, AND OTHER SUCH ITEMS, ARE APPROXIMATE AND SHALL BE SET FLUSH TO FINAL GRADES.

9. THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE UTILITY COMPANY (GAS, TELEPHONE, ELECTRIC, ETC.).

10. CONTRACTOR TO CREATE POSITIVE DRAINAGE TOWARDS ALL DRAIN INLETS.

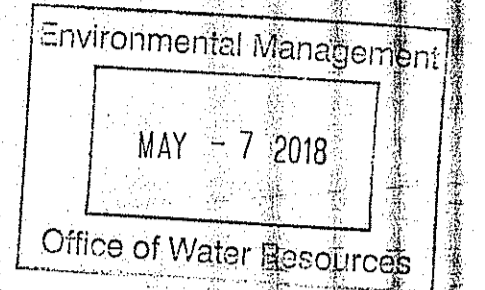
11. AS-BUILT DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH EACH RESPECTIVE AUTHORITY AND SHALL BE PREPARED AND STAMPED BY A REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF RHODE ISLAND.

LEGEND & SYMBOLS



Proposed Site Tabulation

AREA OF MAIN PARCEL	15.2 ACRES
AREA OF ACCESS EASEMENT	0.59 ACRES
AREA OF WETLANDS & BUFFERS SUITABLE AREA	7.00 ACRES
NO. OF BUILDINGS	9
NO. OF LOTS	27
OWNER PARKING SPACES	54
VISITOR PARKING SPACES	32
TOTAL DISTURBED AREA	7.60 ACRES
LENGTH OF NEW ROADWAY	1,700± LF
IMPERVIOUS AREA (ROADS, DRIVEWAYS, ROOFTOPS)	63,000± SF (1.45 ACRES)



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 SITE/CIVIL ENGINEERS

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PREPARED FOR:
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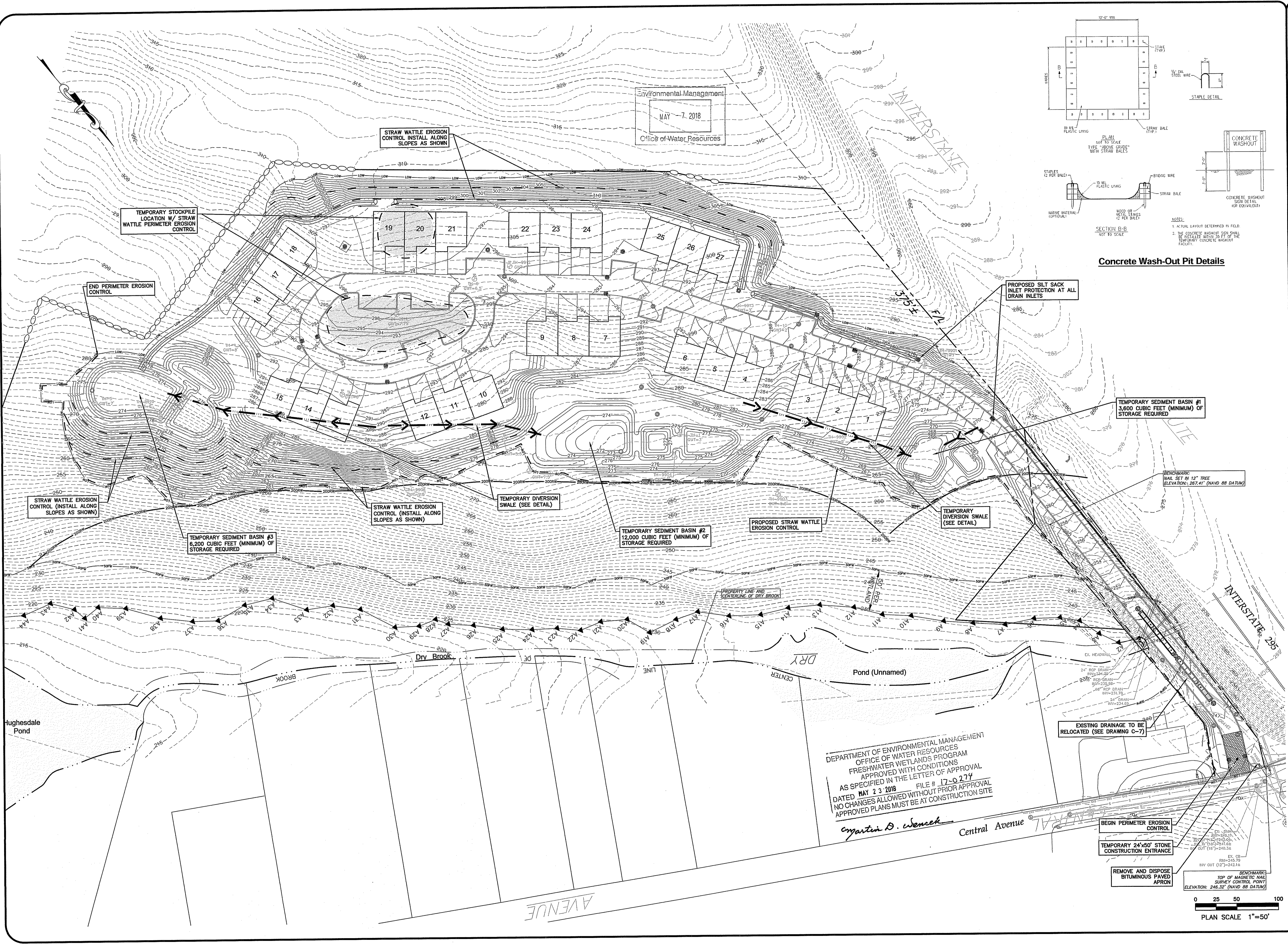
NOTES & LEGEND

DATE: SEPTEMBER 2017
 SCALE:
 DRAWN BY: C.S.R.
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 DRAWING NO.

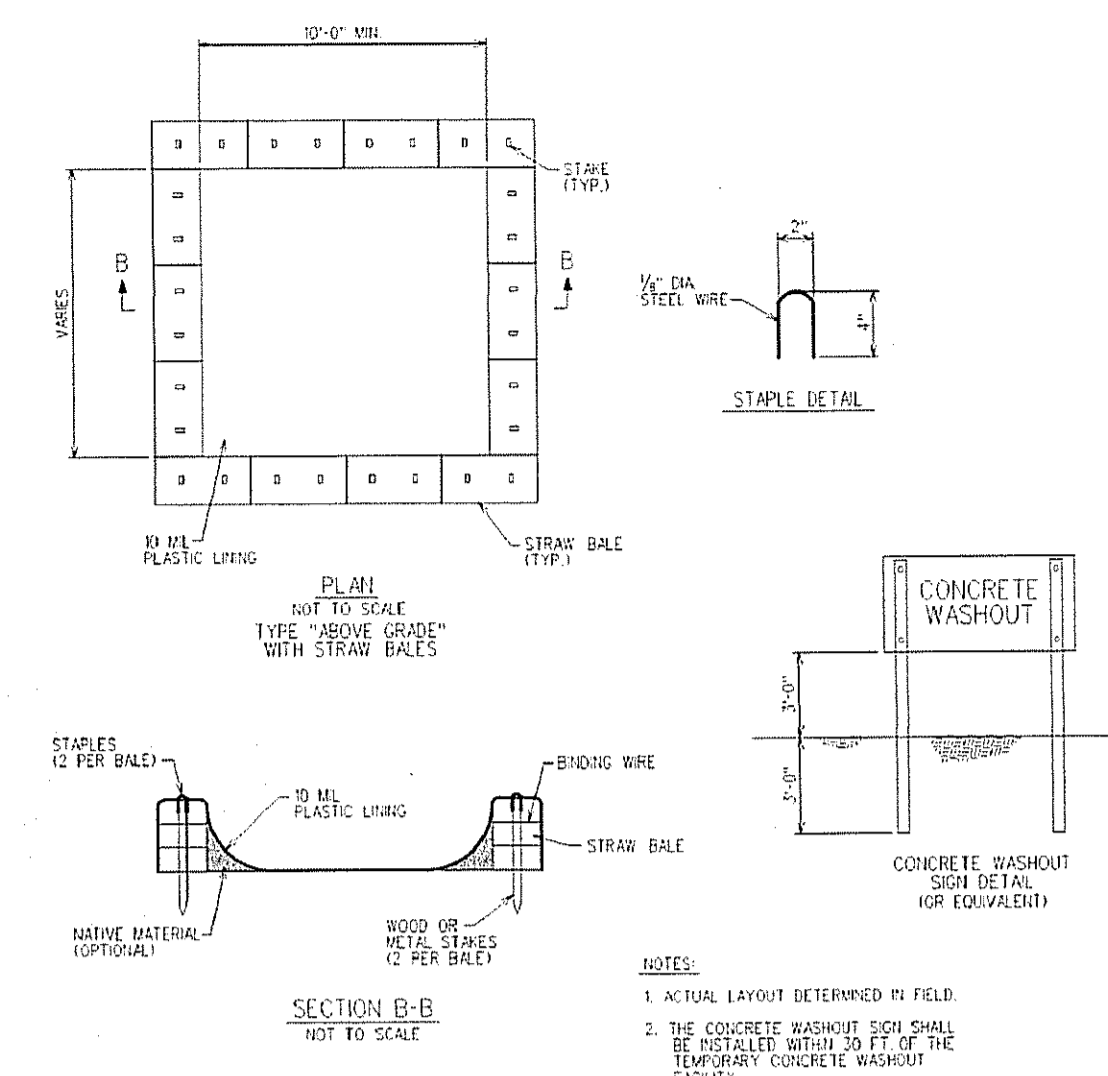
NICHOLAS J. PIAMPANO
 No. 6512
 REGISTERED PROFESSIONAL ENGINEER (CIVIL)
C-2
 SHEET 2 OF 15

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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 FRESHWATER WETLANDS PROGRAM
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Matthew D. Wenzel



Environmental Management
MAY 7 2018
Office of Water Resources



Concrete Wash-Out Pit Details

- ONSITE TEMPORARY CONCRETE WASHOUT FACILITY. TRUCK WASHOUT PROCEDURES.
- TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE LOCATED A MINIMUM OF 50 FT FROM STREAM BANKS, OPEN DRAINAGE FACILITIES, AND WATERBODIES. EACH FACILITY SHOULD BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT OBSTRUCTION OR TRIPPING.
 - A SIGN SHOULD BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITY.
 - TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE CONSTRUCTED ABOVE GRADE OR BELOW GRADE AT THE OPTION OF THE CONTRACTOR. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO HANDLE ALL LOUDED AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
 - TEMPORARY WASHOUT FACILITIES SHOULD HAVE A TEMPORARY PIT OR BEAMED AREA TO SUPPORT WHEELS TO CORRECTLY LOAD ALL LOUDED AND WASTE CONCRETE MATERIALS GENERATED DURING WASHOUT PROCEDURES.
 - WASHOUT OF CONCRETE TRUCKS SHOULD BE PERFORMED IN DESIGNATED AREAS ONLY.
 - CONCRETE FROM MIXER TRUCK CHUTES SHOULD BE WASHED INTO CONCRETE WASH OUT.
 - CONCRETE WASHOUT FROM CONCRETE PUMPER BINS CAN BE WASHED INTO CONCRETE PUMPER TRUCKS AND DISCHARGED INTO DESIGNATED WASHOUT AREA OF PROPERLY DISPOSED OR CURED.
 - ONCE CONCRETE WASTES ARE WASHED INTO THE DESIGNATED AREA AND ALLOWED TO HARDEN, THE CONCRETE SHOULD BE BROKEN UP TEMPORARILY AND DISPOSED OF OFFSITE IN A LEGAL, DESIGNATED COURSE OF IMPROVED CONCRETE OR A RECYCLING PLANT.
 - TEMPORARY CONCRETE WASHOUT FACILITY (TYPE ABOVE GRADE)
 - TEMPORARY WASHOUT FACILITY (TYPE ABOVE GRADE) SHOULD BE CONSTRUCTED AS SHOWN IN THE DETAILS ON THIS SHEET WITH A RECOMMENDED MINIMUM LENGTH AND WIDTH MINIMUM OF 10 FT. BUT WITH SUFFICIENT QUANTITY AND VOLUME TO HANDLE ALL LOUDED AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
 - STRAW BALES, WOOD CHIPS, AND SACKED MATERIALS SHOULD CONFORM TO THE PROVISIONS OF THE EROSION AND SEDIMENT CONTROL PLAN.
 - PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
 - TEMPORARY CONCRETE WASHOUT FACILITY (TYPE BELOW GRADE)
 - TEMPORARY WASHOUT FACILITY (TYPE BELOW GRADE) SHOULD BE CONSTRUCTED AS SHOWN IN THE DETAILS ON THIS SHEET WITH A RECOMMENDED MINIMUM LENGTH AND WIDTH MINIMUM OF 10 FT. BUT WITH SUFFICIENT QUANTITY AND VOLUME TO HANDLE ALL LOUDED AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
 - PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

- NOTES:
- THE TEMPORARY SEDIMENT BASINS ARE PROPOSED TO BE INSTALLED AT THE LOCATION OF THE PROPOSED PERMANENT FRESHWATER BASINS AND/OR TREATMENT AREAS.
 - IT SHALL BE THE RESPONSIBILITY OF THE SITEWORK CONTRACTOR TO REMOVE AND DISPOSE ALL SEDIMENT FROM THE BOTTOM OF THE TEMPORARY BASINS PRIOR TO FINAL PERMANENT BASIN CONSTRUCTION.
 - THE BUILDING CONTRACTOR SHALL UTILIZE A CONCRETE WASH-OUT PIT AS DETAILED ON THIS SHEET TO MANAGE CONCRETE SPILLS.
 - A SITE SPECIFIC SOIL EROSION AND SEDIMENT MAKEGOOD (SESG) PLAN REPORT HAS BEEN PREPARED BY ADVANCED CIVIL DESIGN, INC. AND A COPY MUST BE KEPT ON SITE AT ALL TIMES. THE SITEWORK CONTRACTOR SHALL BE RESPONSIBLE TO PREPARE AND MAINTAIN INSPECTION AND CORRECTIVE ACTION LOGS IN ACCORDANCE WITH THE SESG PLAN.

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PREPARED FOR:
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DRAWING TITLE:
Soil Erosion & Sediment Control Plan

DATE: SEPTEMBER 2017
SCALE: 1"=50'
DRAWN BY: C.S.R.
CHECKED BY: N.J.P.

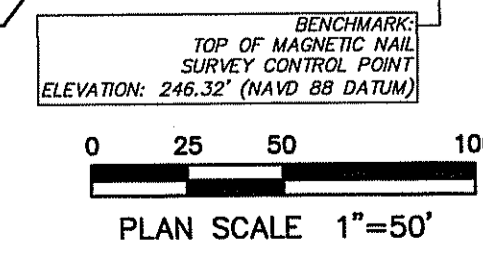
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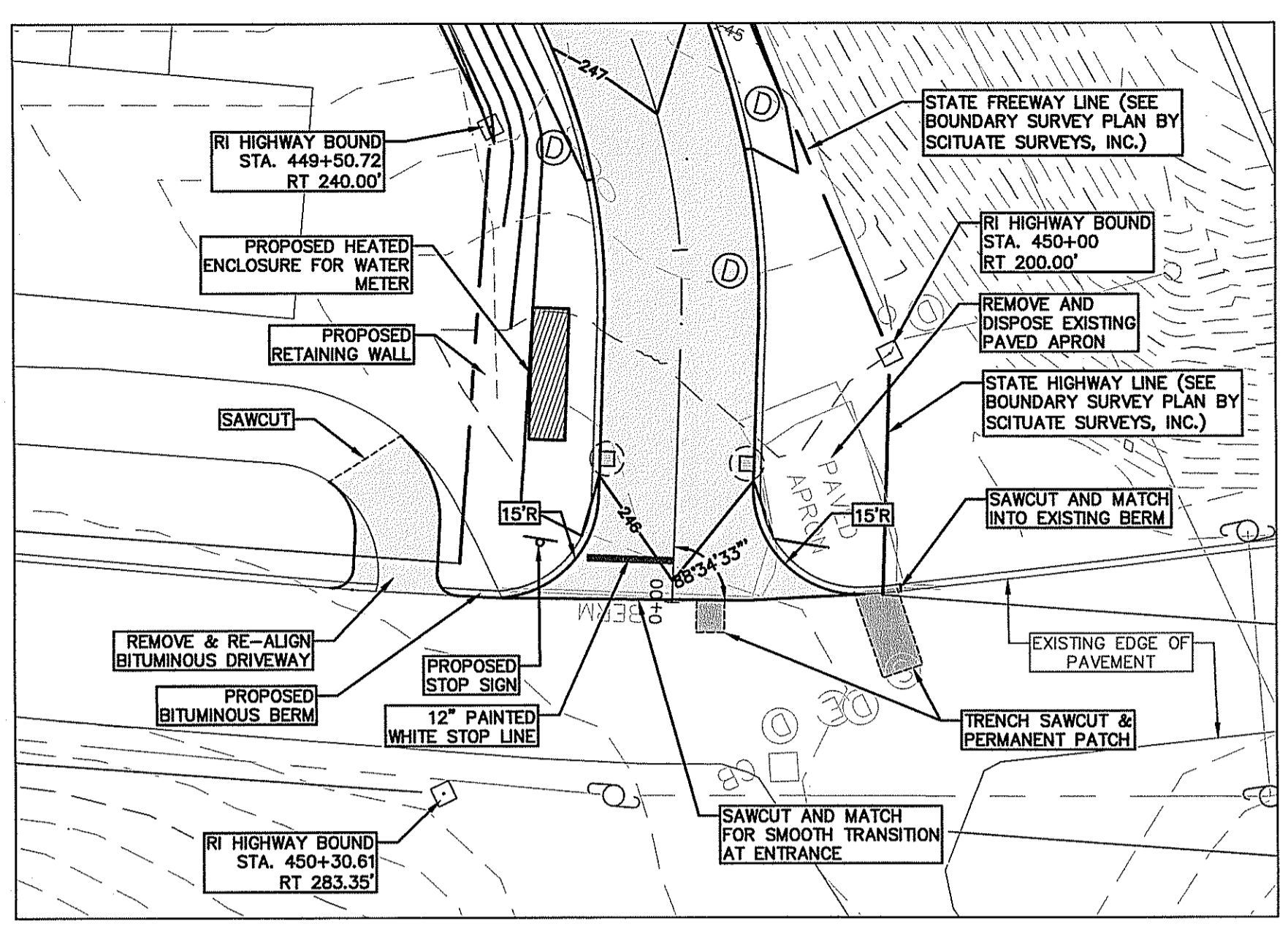
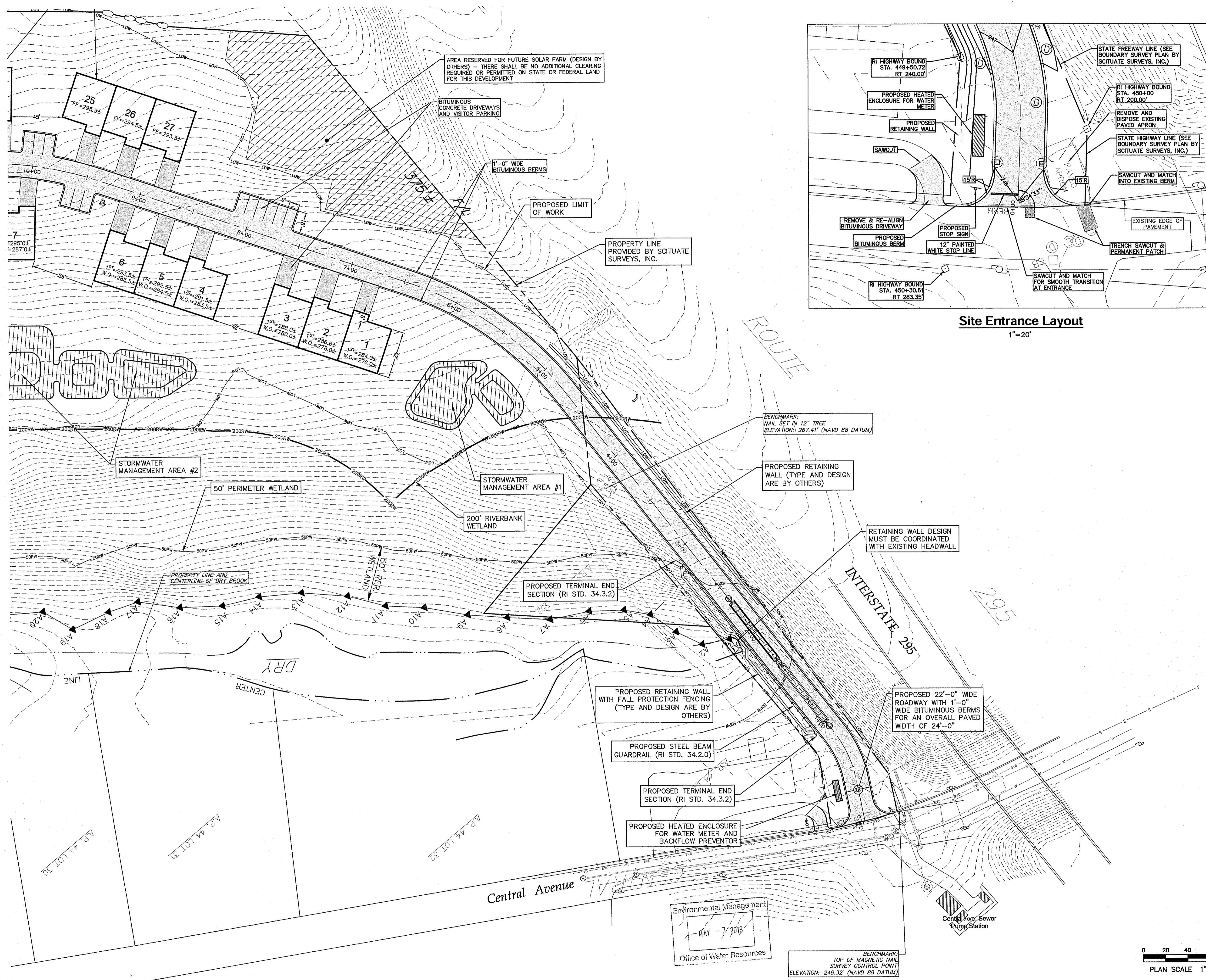
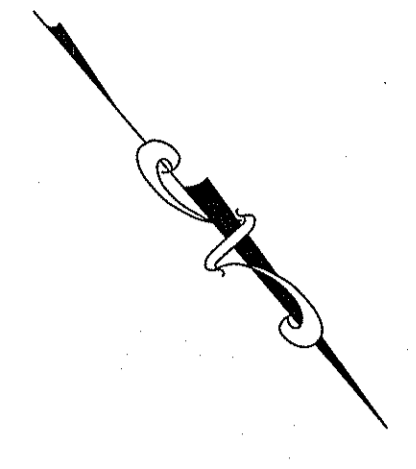
C-4

SHEET 4 OF 15

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 23 2018 FILE # 17-0274
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Matthew D. Wencsek





Site Entrance Layout
1"=20'

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 23 2018 FILE # 17-0224
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Signature
E. Wenzel

- RIDOT NOTES:
1. ALL WORK WITHIN THE STATE RIGHT-OF-WAY SHALL CONFORM TO RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION & RIDOT STANDARD DETAILS.
 2. ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 3. UTILITY CONNECTIONS WITHIN THE STATE ROW REQUIRE A RIDOT UTILITY PERMIT, TO BE OBTAINED BY THE CONTRACTOR PRIOR TO UTILITY WORK WITHIN THE STATE ROW.

Advanced Civil Design, Inc.
SITE/CIVIL ENGINEERS
88 PEEPTOAD ROAD
SCITUATE, RI 02857
PH: (401) 644-8656

NO.	DATE	REVISION
3	MAY-2018	RIDEM COMMENTS
2	APR-2018	RIDOT COMMENTS
1	FEB-2018	LAYOUT & DRAINAGE, RIDEM COMMENTS

PROJECT TITLE:
Hopkins Pond
A.P. 44/4 LOT 28
Central Avenue
Johnston, RI
PREPARED FOR:
Drywater, LLC
51 Sockanosett Cross Road
Cranston, RI 02920

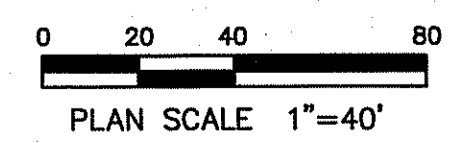
DRAWING TITLE:
Layout & Material Plan 1

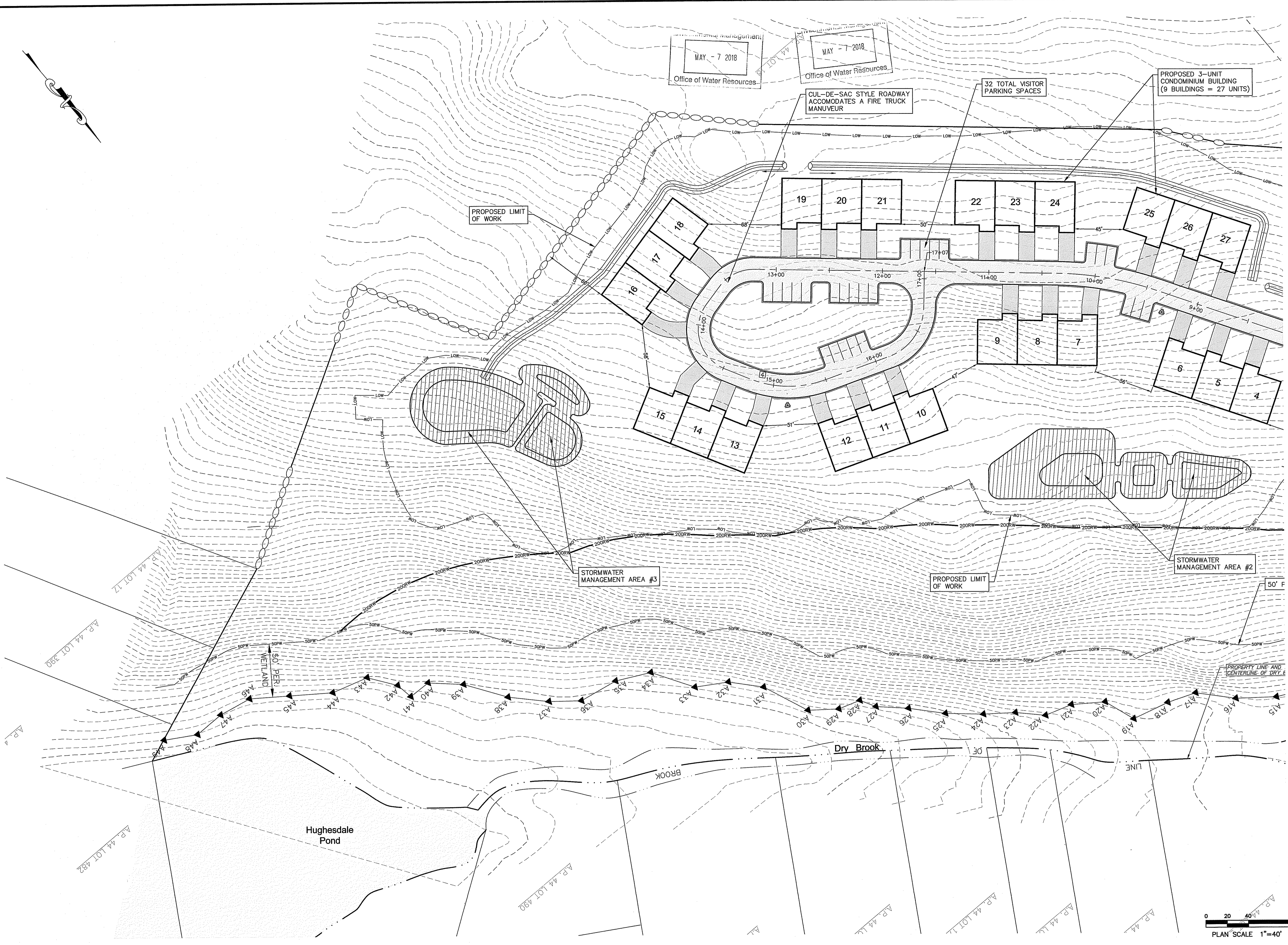
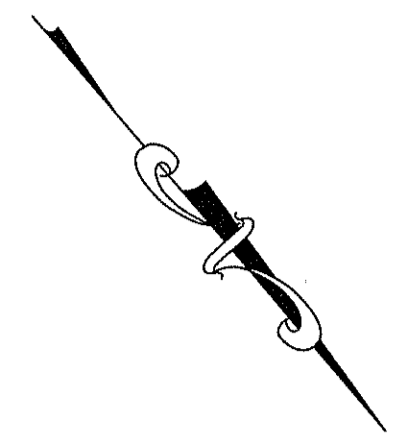
DATE: SEPTEMBER 2017
SCALE: 1"=40'
DRAWN BY: C.S.R.
CHECKED BY: N.J.P.

NICHOLAS J. PIAMPIANO
No. 6512
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
C-5
SHEET 5 OF 15

Environmental Management
MAY - 7 2018
Office of Water Resources

BENCHMARK:
TOP OF MAGNETIC NAIL
SURVEY CONTROL POINT
ELEVATION: 246.32' (NAVD 88 DATUM)





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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 23 2018 FILE # 17-0274
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Matthew D. Clement

Advanced Civil Design, Inc.
SITE/CIVIL ENGINEERS
88 PEEPTOAD ROAD
SCITUATE, RI 02857
PH: (401) 644-8656



3	MAY-2018	RIDEM COMMENTS
2	APR-2018	RIDOT COMMENTS
1	FEB-2018	LAYOUT & DRAINAGE, RIDEM COMMENTS

NO. DATE REVISION
PROJECT TITLE:
Hopkins Pond
A.P. 44/4 LOT 28
Central Avenue
Johnston, RI

PREPARED FOR:
Drywater, LLC
51 Sockanosett Cross Road
Cranston, RI 02920

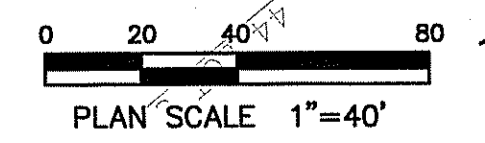
DRAWING TITLE:
Layout & Material Plan 2

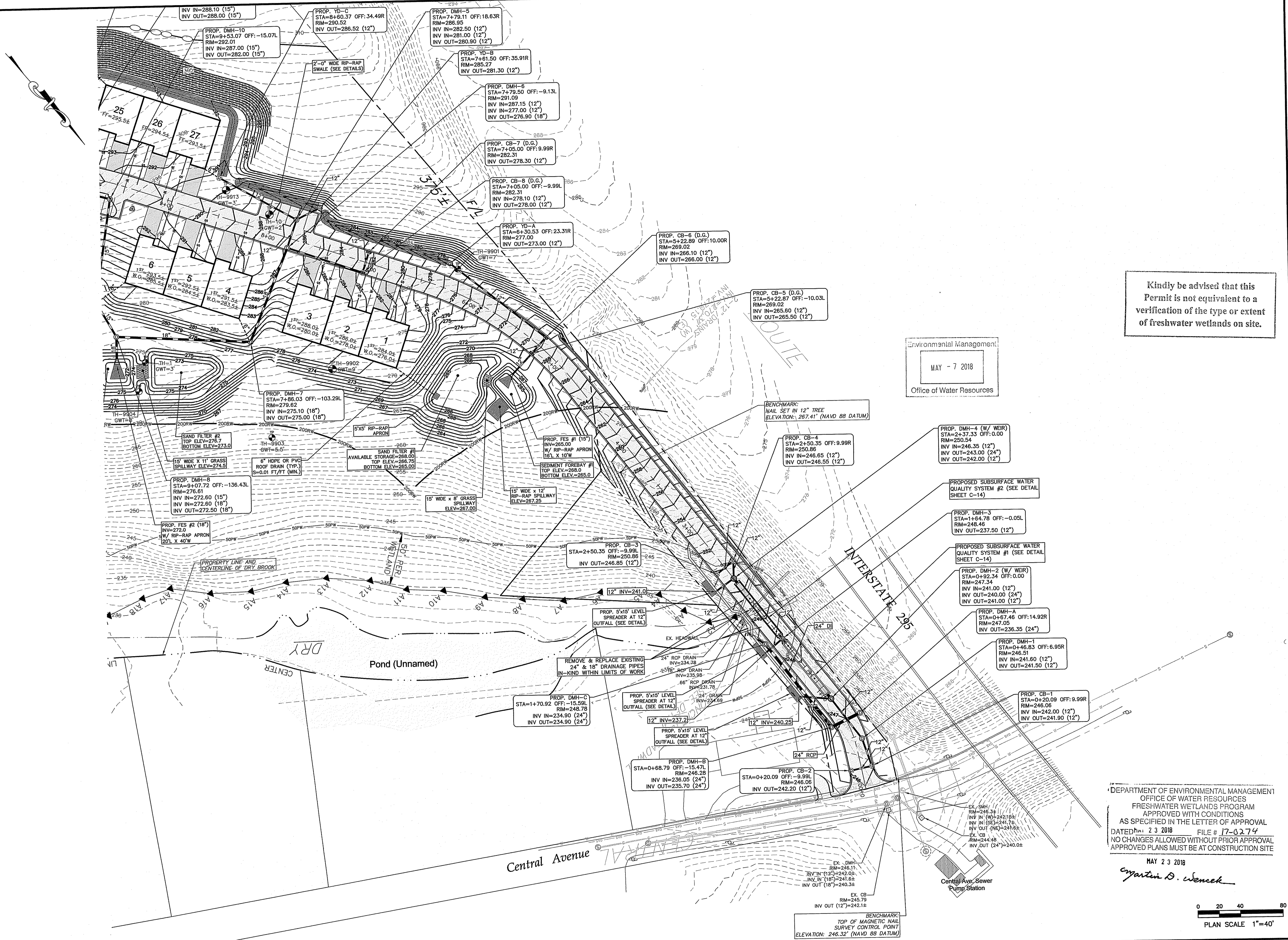
DATE: SEPTEMBER 2017 DRAWN BY: C.S.R.
SCALE: 1"=40' CHECKED BY: N.J.P.

NICHOLAS J. PIAMPANO
No. 6512
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

C-6

SHEET 6 OF 15





Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

Environmental Management
MAY - 7 2018
Office of Water Resources

TESTHOLE	DESIGN GWT	DEPTH
9901	7'-0"	7'-0"
9902	9'-0"	9'-0"
9903	5'-6"	5'-6"
9904	8'-0"	8'-0"
9905	7'-6"	7'-6"
9906	9'-6"	9'-6"
9907	8'-0"	8'-0"
9908	6'-6"	6'-6"
9910	6'-0"	6'-0"
9911	7'-9"	7'-9"
9912	7'-0"	7'-0"
9913	3'-0"	3'-0"
TH-1	3'-0"	3'-0"
TH-2	5'-4"	5'-4"
TH-3	6'-0"	6'-0"
TH-4	8'-0"	8'-0"
TH-5	7'-0"	7'-0"
TH-6	6'-6"	6'-6"
TH-7	7'-9"	7'-9"
TH-8	7'-0"	7'-0"
TH-9	7'-6"	7'-6"
TH-10	2'-0"	2'-0"

- DETENTION BASIN PLANTING PLAN**
- PERIODIC INSPECTIONS INCLUDING THE BASIN PERIMETER SHALL OCCUR A MINIMUM OF ONCE PER YEAR. IF SIGNIFICANT STORM EVENTS OCCUR BETWEEN ANNUAL INSPECTIONS, ADDITIONAL INSPECTIONS ARE REQUIRED FOLLOWING EACH OF THE SIGNIFICANT EVENTS.
 - INSPECTIONS SHALL OCCUR TO ENSURE THAT THE SLOPE TREATMENT HAS NOT BEEN DAMAGED BY SETTLING, VEGETATION, EROSION, OR OTHER CAUSES.
 - SHOULD DAMAGE BE OBSERVED, BASIN SIDE SLOPES SHALL BE RESTORED TO DESIGN SPECIFICATIONS.
 - TEMPORARY STABILIZATION MEASURES SUCH AS EROSION BLANKETS, MULCH, FIBER TREATMENTS AND STRAW WATTLES PLACED AT 15' INTERVALS PARALLEL WITH THE SIDE SLOPE SHALL BE EMPLOYED FOR TEMPORARY STABILIZATION.
 - EXPOSED AREAS SHALL BE RESEEDED AND OR REVEGETATED AS SOON AS POSSIBLE TO AVOID FURTHER EROSION. DURING NON-GROWING SEASONS RIP RAP MAY BE PLACED AS A TEMPORARY STABILIZATION MEASURE.

- STORM DRAINAGE NOTES:**
- STORM DRAIN PIPES AND FLARED END SECTIONS ARE HDPE (ADS N-12 OR EQUAL) UNLESS NOTED OTHERWISE.
 - ROOF DRAIN PIPING IS HDPE (ADS N-12), PVC SDR35, OR EQUAL.
 - CATCH BASIN GRATES INSTALLED ON SLOPES GREATER THAN 4% SHALL BE HIGH CAPACITY TYPE (RIDOT STD. 6.3.4).
 - PIPE SIZES AND INVERTS ARE NOTED WITHIN THE STRUCTURE ANNOTATION TEXT.

Advanced Civil Design, Inc.
SITE/CIVIL ENGINEERS
88 PEEPTOAD ROAD
SCITUATE, RI 02857
PH: (401) 644-8656

NO.	DATE	REVISION
3	MAY-2018	RIDEM COMMENTS
2	APR-2018	RIDOT COMMENTS
1	FEB-2018	LAYOUT & DRAINAGE, RIDEM COMMENTS

PROJECT TITLE:
Hopkins Pond
A.P. 44/4 LOT 28
Central Avenue
Johnston, RI

PREPARED FOR:
Drywater, LLC
51 Sockanosect Cross Road
Cranston, RI 02920

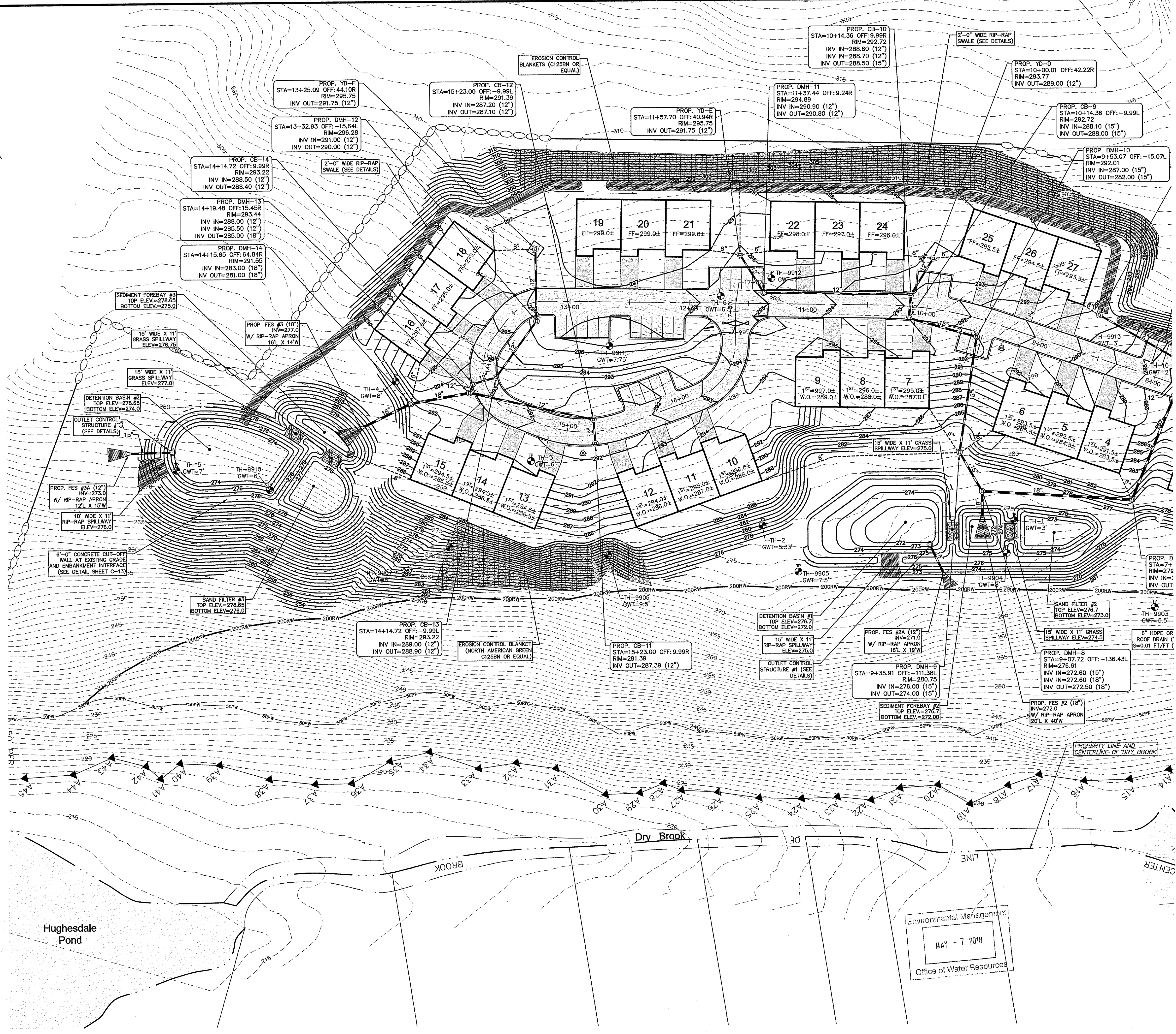
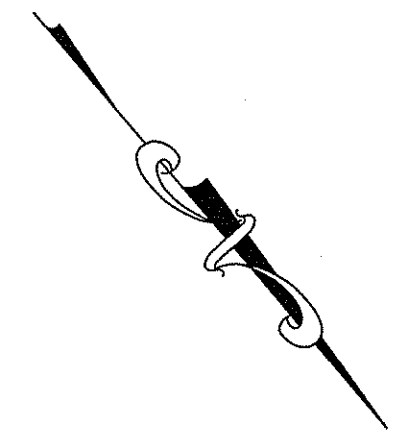
DRAWING TITLE:
Drainage & Grading Plan 1

DATE: SEPTEMBER 2017
SCALE: 1"=40'
DRAWN BY: C.S.R.
CHECKED BY: N.J.P.

DRAWING NO.
NICHOLAS J. PIAMPIANO
No. 6512
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
C-7

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 23 2018 FILE # 17-0274
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

MAY 23 2018
Nicholas J. Piampiano
0 20 40 80
PLAN SCALE 1"=40'
SHEET 7 OF 15



Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

TESTHOLE #	DESIGN GWT DEPTH
9901	7'-0"
9902	9'-0"
9903	5'-6"
9904	8'-0"
9905	7'-6"
9906	9'-6"
9907	8'-0"
9908	6'-6"
9910	6'-0"
9911	7'-9"
9912	7'-0"
9913	3'-0"
TH-1	3'-0"
TH-2	5'-4"
TH-3	6'-0"
TH-4	8'-0"
TH-5	7'-0"
TH-6	6'-6"
TH-7	7'-9"
TH-8	7'-0"
TH-9	7'-6"
TH-10	2'-0"

DETENTION BASIN PLANTING PLAN

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- ROOF DRAIN PIPING IS HDPE (ADS N-12), PVC SDR35, OR EQUAL.
- CATCH BASIN GRATES INSTALLED ON SLOPES GREATER THAN 4% SHALL BE HIGH CAPACITY TYPE (RIDOT STD. 6.3.4).
- PIPE SIZES AND INVERTS ARE NOTED WITHIN THE STRUCTURE ANNOTATION TEXT.

Advanced Civil Design, Inc.
 SITE/CIVIL ENGINEERS
 88 PEEPTOAD ROAD
 SCITUATE, RI 02857
 PH: (401) 644-8656

NO.	DATE	REVISION
3	MAY-2018	RIDEM COMMENTS
2	APR-2018	RIDOT COMMENTS
1	FEB-2018	LAYOUT & DRAINAGE, RIDEM COMMENTS

PROJECT TITLE:
Hopkins Pond
 A.P. 44/4 LOT 26
 Central Avenue
 Johnston, RI
 PREPARED FOR:
 Drywater, LLC
 51 Sockonnet Cross Road
 Cranston, RI 02920

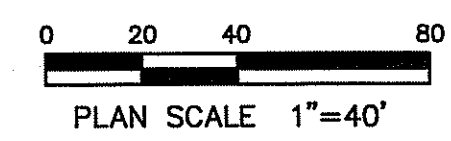
DRAWING TITLE:
Drainage & Grading Plan 2

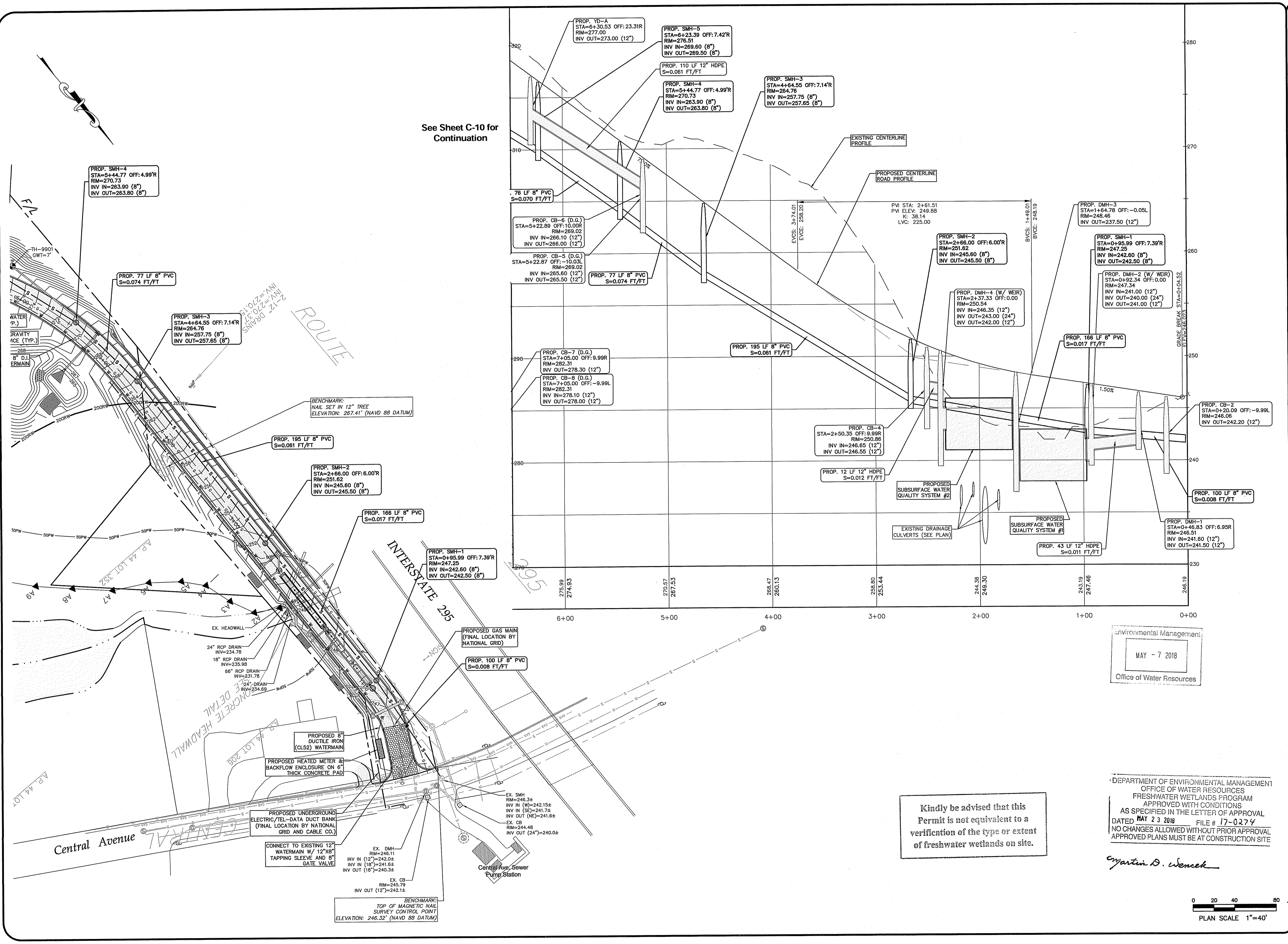
DATE: SEPTEMBER 2017
 SCALE: 1"=40'
 DRAWN BY: C.S.R.
 CHECKED BY: N.J.P.

DRAWING NO.
 NICHOLAS J. PIAMPANO
 No. 6512
 REGISTERED PROFESSIONAL ENGINEER (CIVIL)
C-8
 SHEET 8 OF 15

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED MAY 23 2018 FILE # 17-0274
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Sydney D. Wenzel

Environmental Management
 MAY - 7 2018
 Office of Water Resources





See Sheet C-10 for Continuation

Environmental Management
MAY - 7 2018
Office of Water Resources

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 23 2018 FILE # 17-0274
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wenczek

0 20 40 80
PLAN SCALE 1"=40'

Advanced Civil Design, Inc.
SITE/CIVIL ENGINEERS
88 PEEPTOAD ROAD
SCITUATE, RI 02857
PH: (401) 644-8656

NO.	DATE	REVISION
3	MAY-2018	RIDEM COMMENTS
2	APR-2018	RIDOT COMMENTS
1	FEB-2018	LAYOUT & DRAINAGE, RIDEM COMMENTS

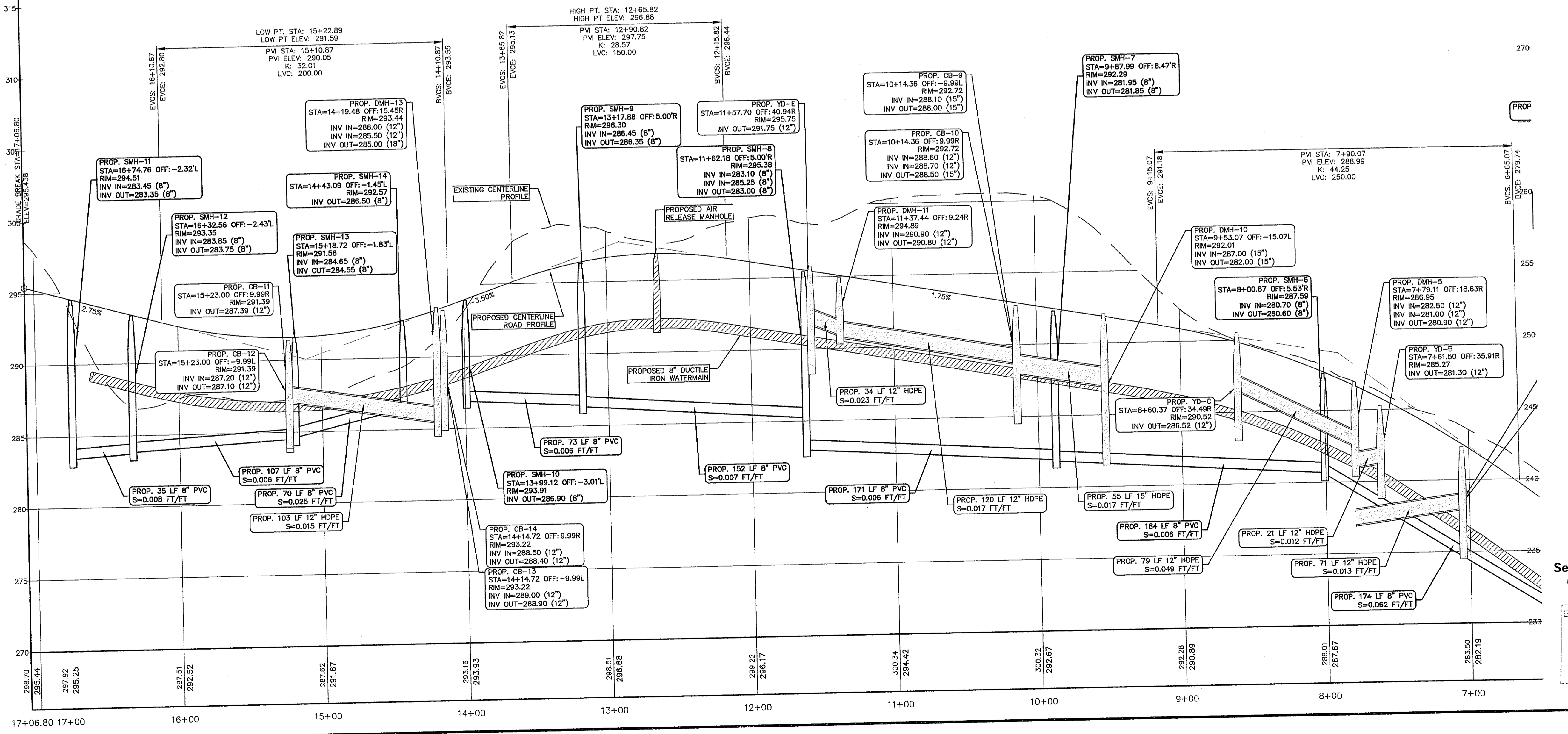
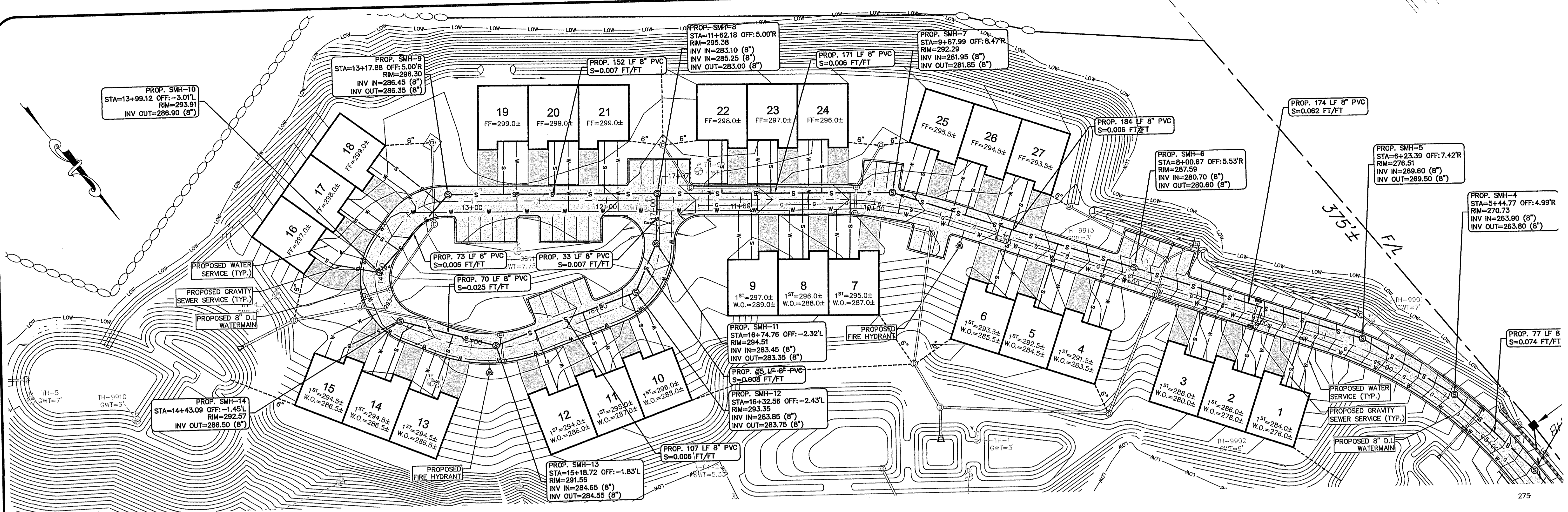
PROJECT TITLE:
Hopkins Pond
A.P. 44/4 LOT 28
Central Avenue
Johnston, RI

PREPARED FOR:
Drywater, LLC
51 Sockanosett Cross Road
Cranston, RI 02920

DRAWING TITLE:
Utility Plan & Profile 1

DATE: SEPTEMBER 2017 DRAWN BY: C.S.R.
SCALE: 1"=40' CHECKED BY: N.J.P.

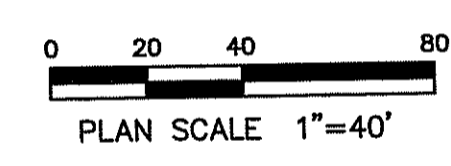
NICHOLAS J. PIAMPIANO
No. 6512
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
C-9
SHEET 9 OF 15



TESTHOLE #	DESIGN GWT DEPTH
9901	7'-0"
9902	9'-0"
9903	5'-6"
9904	8'-0"
9905	7'-6"
9906	9'-6"
9907	8'-0"
9908	6'-6"
9910	6'-0"
9911	7'-9"
9912	7'-0"
9913	3'-0"
TH-1	3'-0"
TH-2	5'-4"
TH-3	6'-0"
TH-4	8'-0"
TH-5	7'-0"
TH-6	6'-6"
TH-7	7'-9"
TH-8	7'-0"
TH-9	7'-6"
TH-10	2'-0"

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WATERS AND PROGRAMS
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED MAY 23 2018 FILE # 17-0-274
 CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wenzel



Advanced Civil Design, Inc.
 SITE/CIVIL ENGINEERS
 88 PEEPTOAD ROAD
 SCITUATE, RI 02857
 PH: (401) 644-8656

NO.	DATE	REVISION
2	MAY-2018	RIDEM COMMENTS
1	FEB-2018	LAYOUT & DRAINAGE, RIDEM COMMENTS

PROJECT TITLE:
Hopkins Pond
 A.P. 44/4 LOT 28
 Central Avenue
 Johnston, RI
 PREPARED FOR:
 Drywater, LLC
 51 Sockanett Cross Road
 Cranston, RI 02920

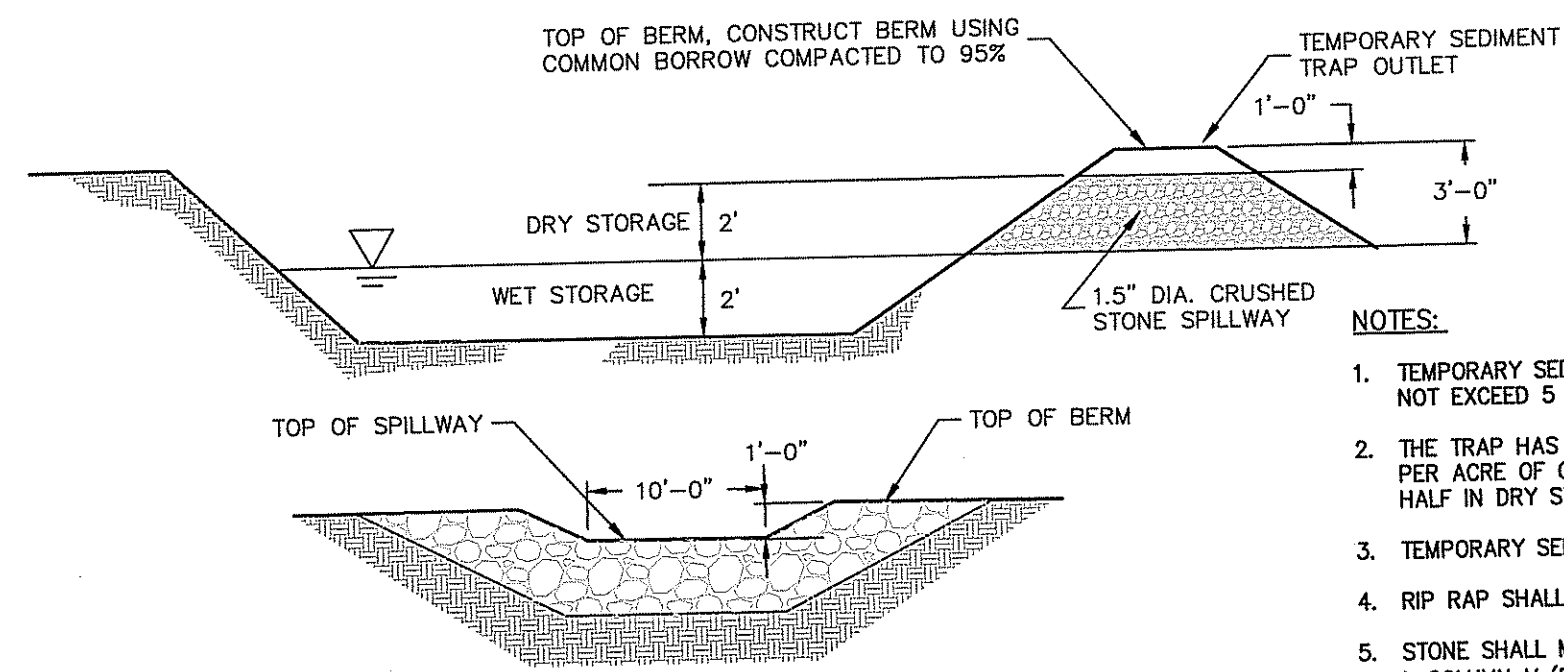
DRAWING TITLE:
Utility Plan & Profile 2

DATE: SEPTEMBER 2017
 SCALE: 1"=40'
 DRAWN BY: C.S.R.
 CHECKED BY: N.J.P.

NICHOLAS J. PIAMPIANO
 No. 6512
 REGISTERED PROFESSIONAL ENGINEER (CIVIL)
C-10
 SHEET 10 OF 15

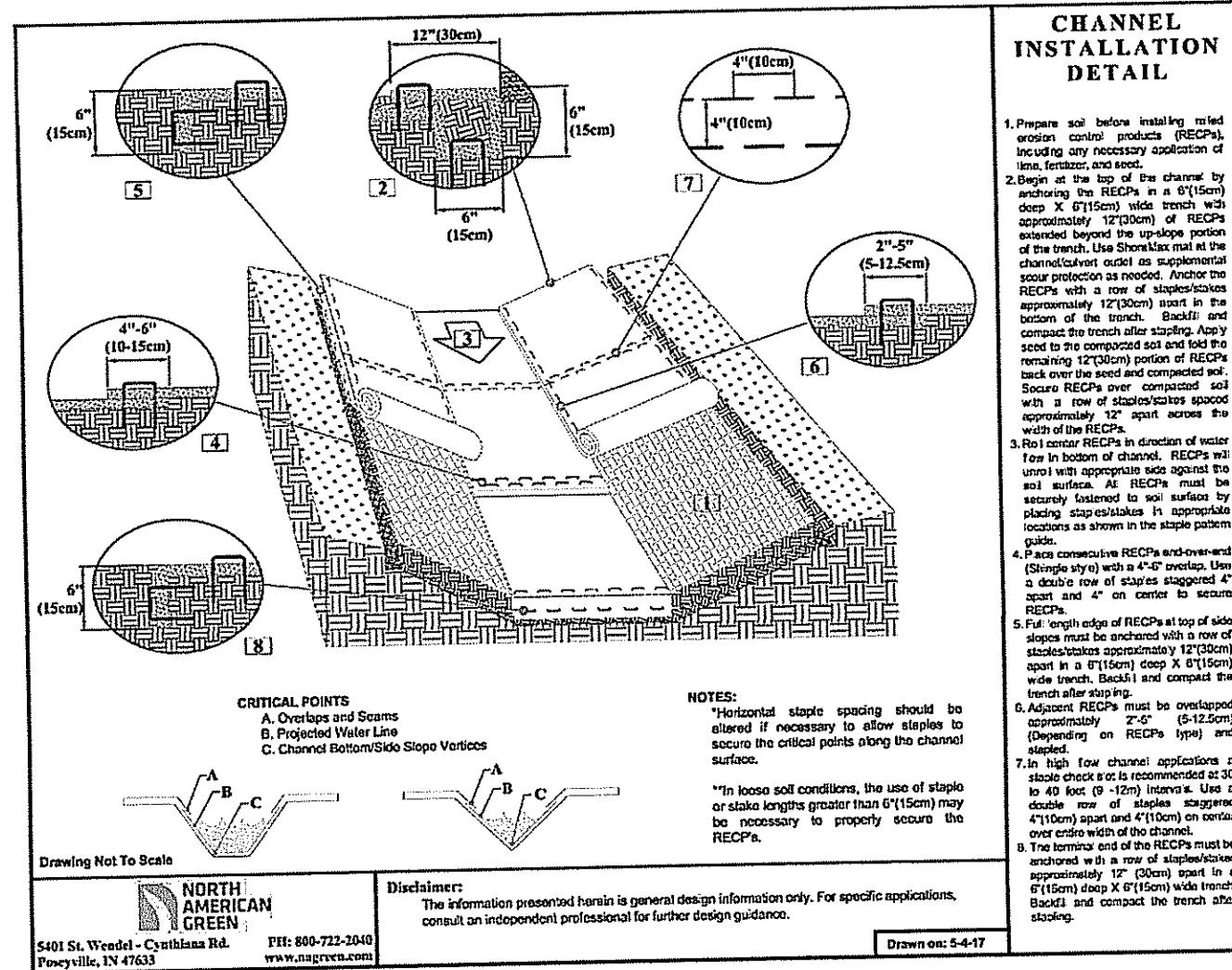
See Sheet C-9 for Continuation

Environmental Management
 MAY - 7 2018
 Office of Water Resources



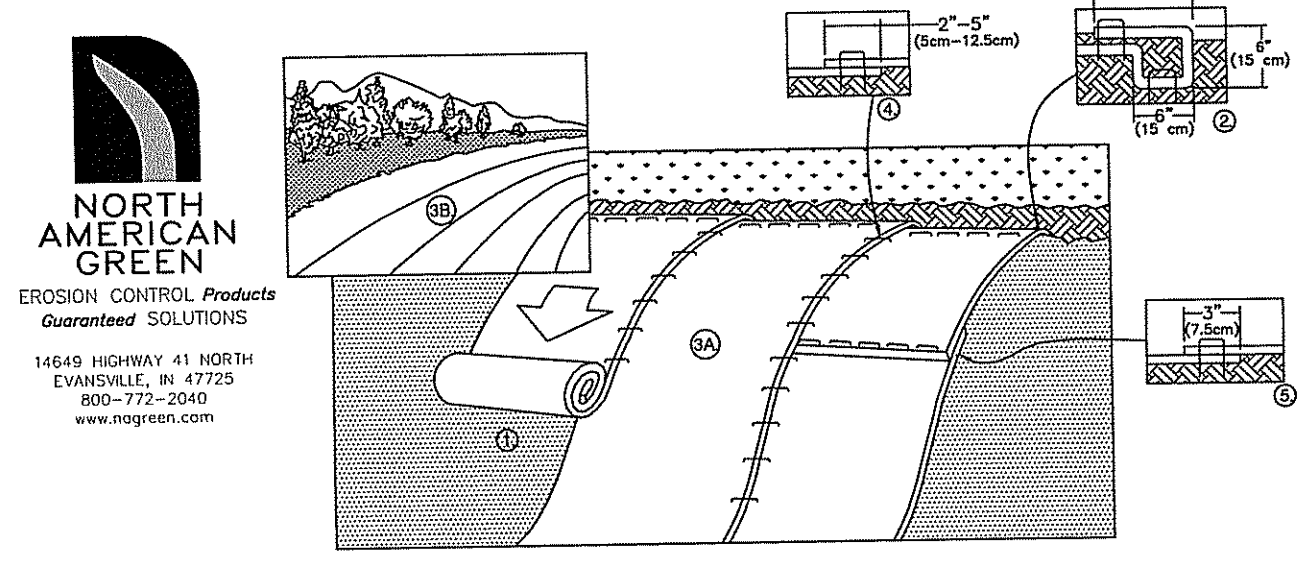
- NOTES:**
1. TEMPORARY SEDIMENT TRAP CONTRIBUTING DRAINAGE AREA SHALL NOT EXCEED 5 ACRES.
 2. THE TRAP HAS A STORAGE CAPACITY EQUAL TO 134 CUBIC YARDS PER ACRE OF CONTRIBUTING AREA, HALF IN WET STORAGE AND HALF IN DRY STORAGE.
 3. TEMPORARY SEDIMENT TRAPS SHALL BE CLEANED EVERY 6 MONTHS.
 4. RIP RAP SHALL MEET RIDOT STANDARD SPECIFICATION M.10.03.2.
 5. STONE SHALL MEET RIDOT STANDARD SPECIFICATION M.01.09 TABLE 1, COLUMN V (FILTER STONE).

TEMPORARY SEDIMENT TRAP DETAIL
NOT TO SCALE



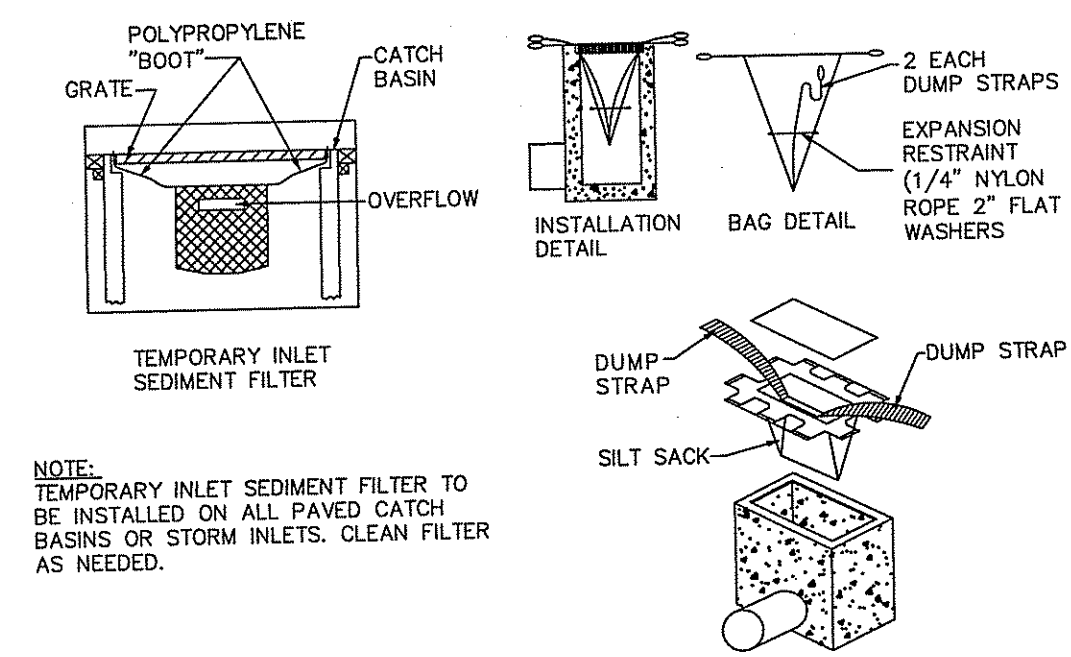
- CHANNEL INSTALLATION DETAIL**
1. Prepare soil before installing rolled erosion control products (RECP's), including any necessary application of lime, fertilizer, and seed.
 2. Begin at the top of the slope by anchoring the RECP's in a 6" (15 cm) wide trench with approximately 12" (30 cm) of RECP's extended beyond the up-slope portion of the trench. Anchor the RECP's with a row of staples/stakes approximately 12" (30 cm) apart in the bottom of the trench. Backfill and compact the trench after seeding. Apply seed to compacted soil and fold remaining 12" (30 cm) portion of RECP's back over seed and compacted soil. Secure RECP's over compacted soil with a row of staples/stakes spaced approximately 12" (30 cm) apart across the width of the RECP's.
 3. Roll the RECP's (A) down or (B) horizontally across the slope. RECP's will unroll with appropriate side against the soil surface. All RECP's must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide. When using the dot system, staples/stakes should be placed through each of the colored dots corresponding to the appropriate staple pattern.
 4. The edges of parallel RECP's must be stapled with approximately 2" - 5" (5 cm - 12.5 cm) overlap depending on RECP's type.
 5. Consecutive RECP's spliced down the slope must be placed end over end (single style) with an approximate 3" (7.5 cm) overlap. Staple through overlapped area, approximately 12" (30 cm) apart across entire RECP's width.

EROSION CONTROL MATTING - CHANNEL INSTALLATION
NOT TO SCALE



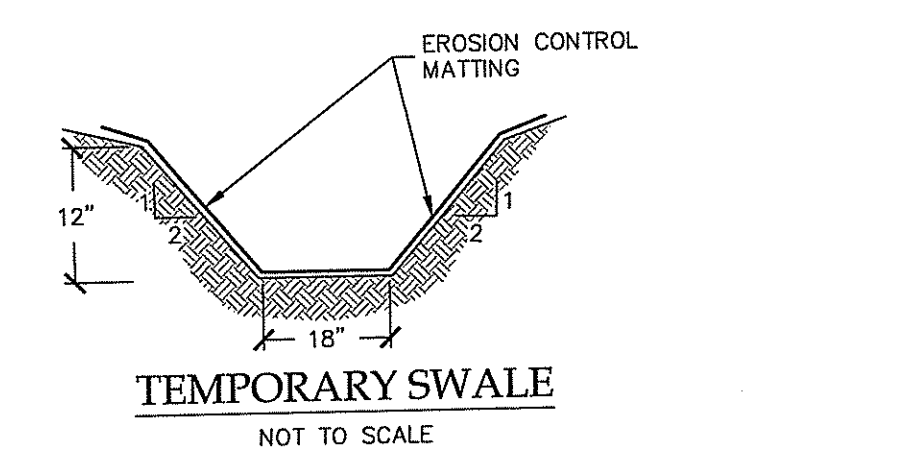
- EROSION CONTROL MATTING - SLOPE PROTECTION**
NOT TO SCALE
1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER SEEDING TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.
 3. ROLL THE RECP'S (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 4. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP'S TYPE.
 5. CONSECUTIVE RECP'S SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH.

EROSION CONTROL MATTING - SLOPE PROTECTION
NOT TO SCALE

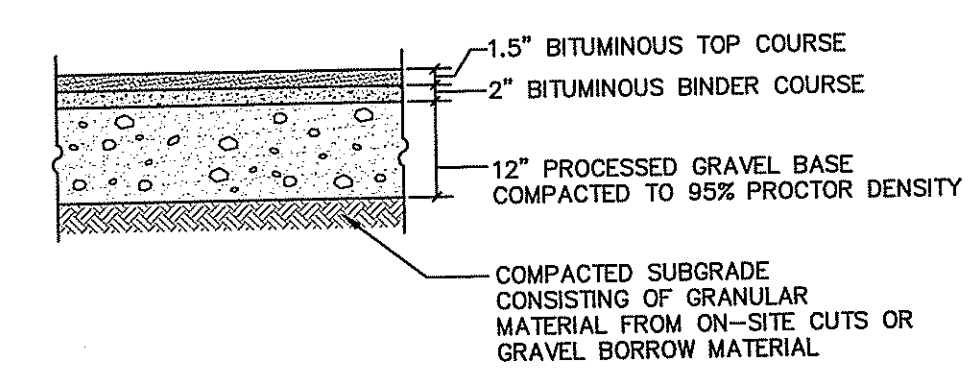


NOTE: TEMPORARY INLET SEDIMENT FILTER TO BE INSTALLED ON ALL PAVED CATCH BASINS OR STORM INLETS. CLEAN FILTER AS NEEDED.

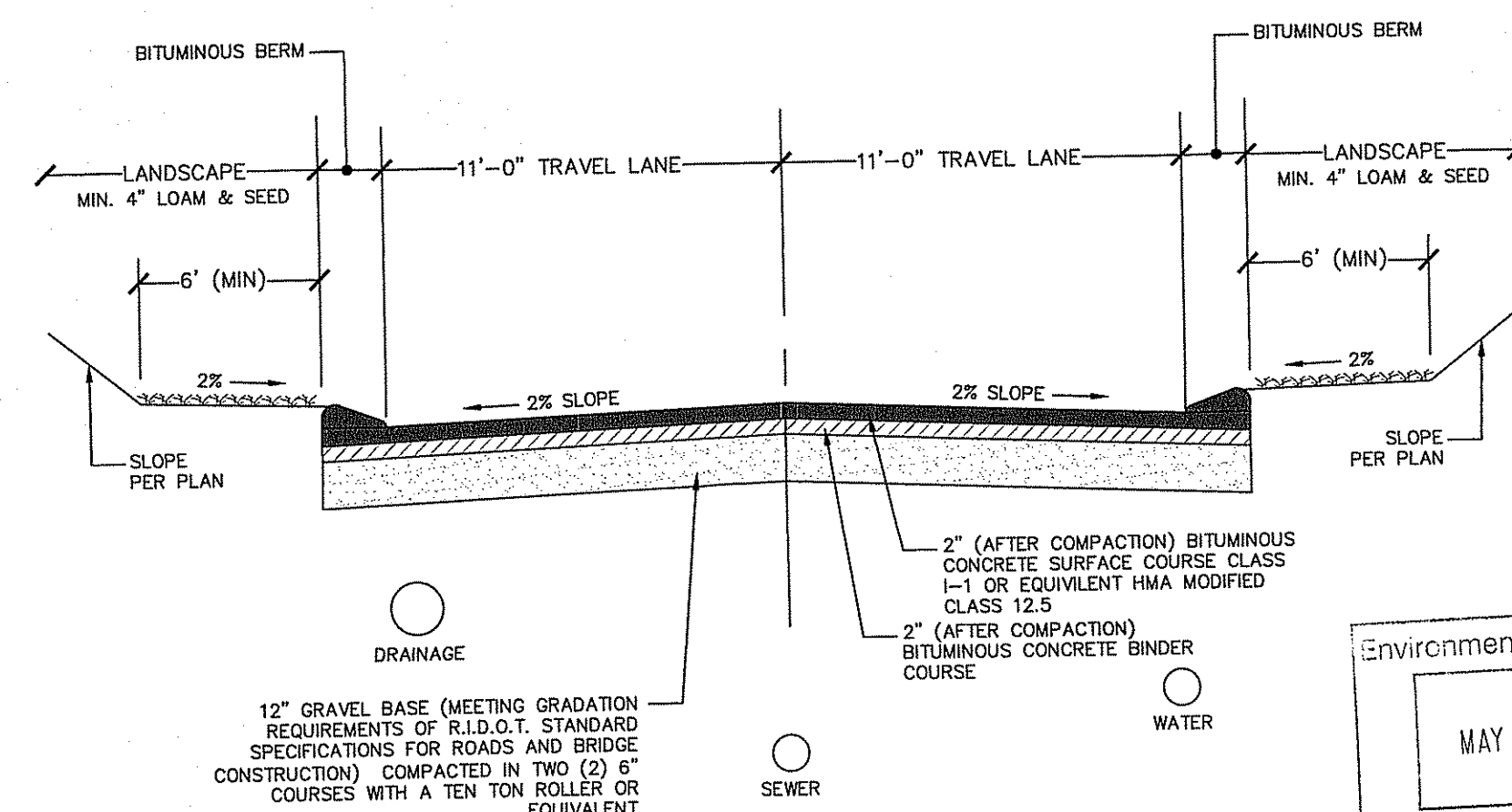
SILT SACK DETAIL
NOT TO SCALE



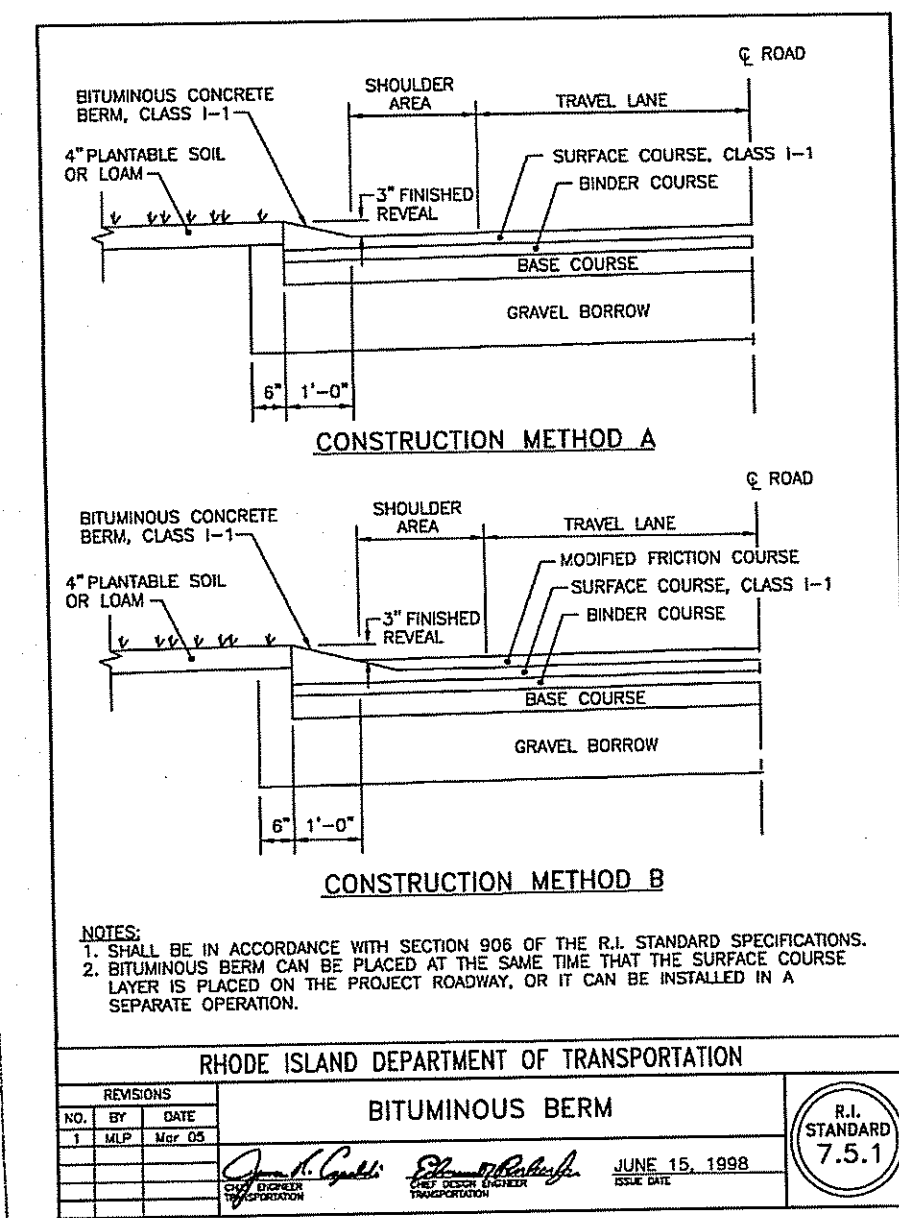
TEMPORARY SWALE
NOT TO SCALE



BITUMINOUS PARKING SECTION
NOT TO SCALE



TYPICAL STREET CROSS SECTION
NOT TO SCALE

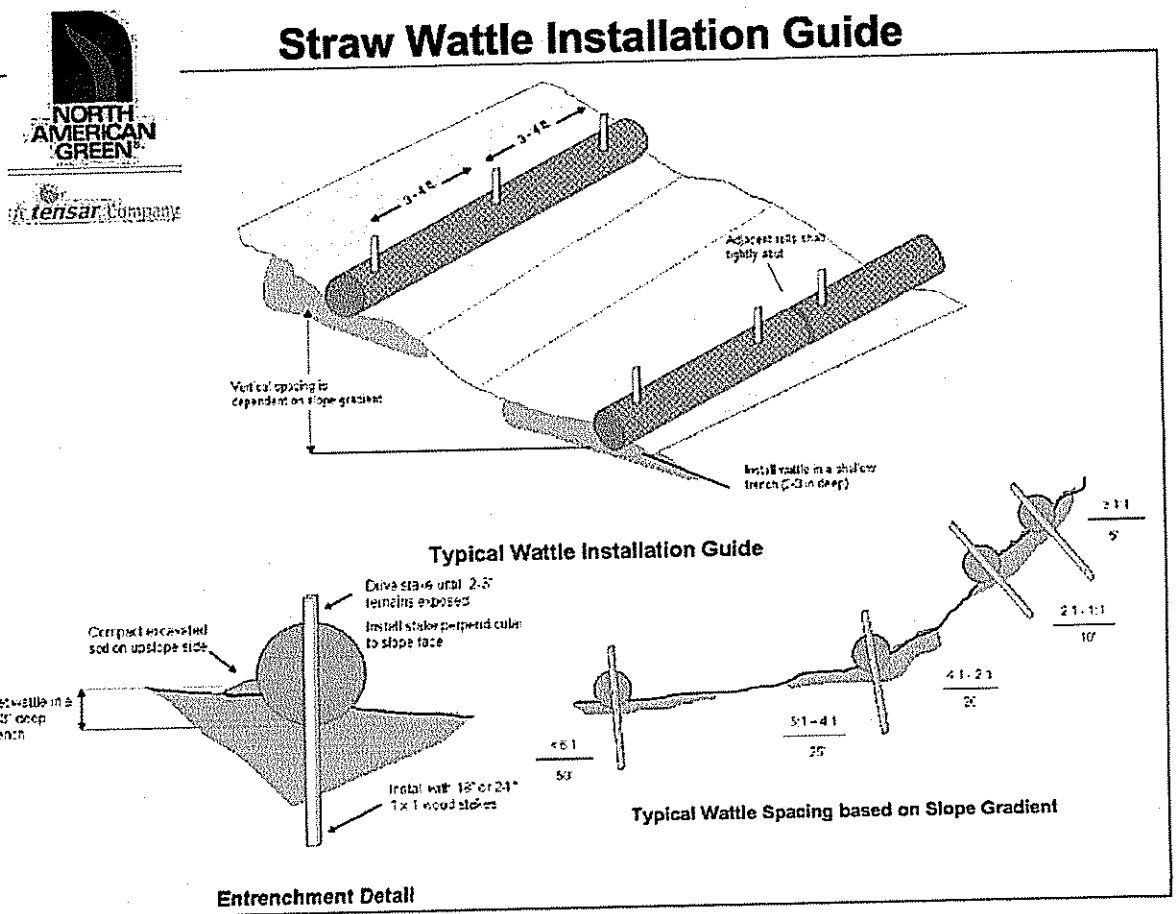


RHODE ISLAND DEPARTMENT OF TRANSPORTATION

BITUMINOUS BERM

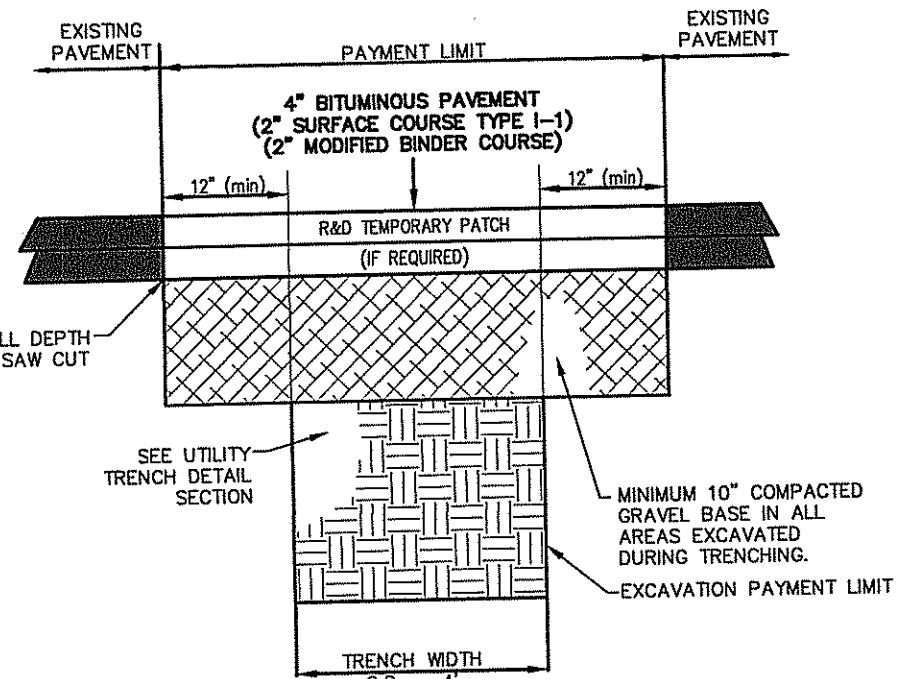
NO.	BY	DATE
1	J.P. G...	JUNE 15, 1998

STANDARD 7.5.1



1. BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2'-3" (67.5 CM) DEEP X 6" (15.2 CM) WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP-SLOPE FROM THE ANCHOR TRENCH.
2. PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPSLOPE SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
3. SECURE THE WATTLE WITH 18-24" (45.7-61 CM) STAKES EVERY 3'-4" (0.9 - 1.2 M) AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2'-3" (67.5 CM) OF STAKE EXTENDING ABOVE THE WATTLE. STAKES SHOULD BE DRIVEN PERPENDICULAR TO SLOPE FACE.

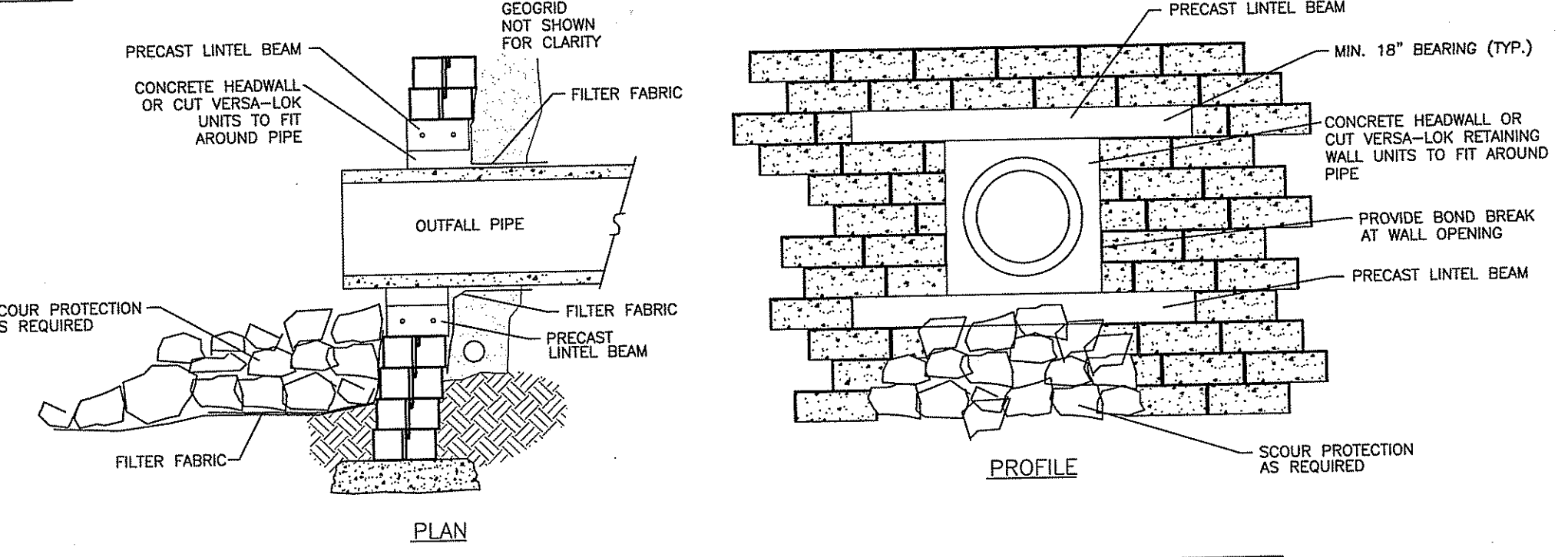
STRAW WATTLE EROSION CONTROL
NOT TO SCALE



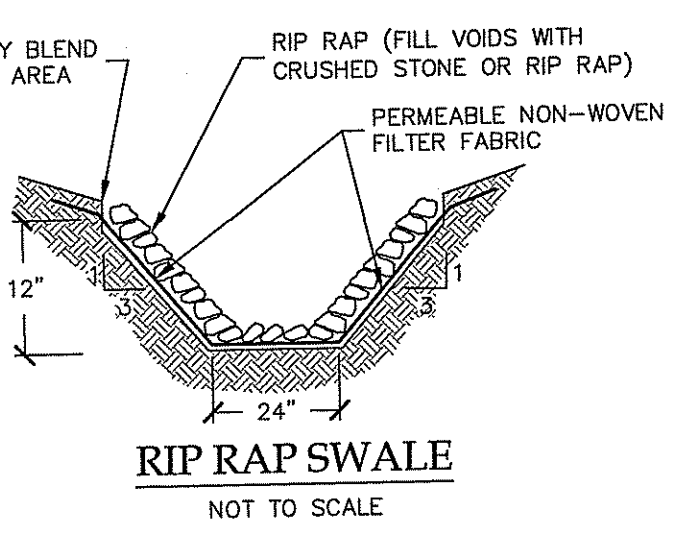
- NOTES:**
1. REMOVE AND DISPOSE OF TOP 10" OF SELECTED BACKFILL AND RE-COMPACT TOP OF TRENCH PRIOR TO SPREADING THE BASE COURSE.
 2. EXISTING PAVEMENT SHALL BE SAW CUT BACK AN ADDITIONAL 12" TO PAYMENT LIMIT LINE OR UNDISTURBED PAVEMENT, WHICHEVER IS GREATER.
 3. TEMPORARY BITUMINOUS PAVEMENT, SELECTED BACKFILL AND UNSUITABLE MATERIAL SHALL BE REMOVED PRIOR TO PLACEMENT OF THE PERMANENT PAVEMENT.
 4. ALL PREPARATION WORK SHALL BE APPROVED BY THE PROPER AUTHORITY PRIOR TO BACKFILL AND PAVING.

TRENCH SAWCUT & PATCH DETAIL
NOT TO SCALE

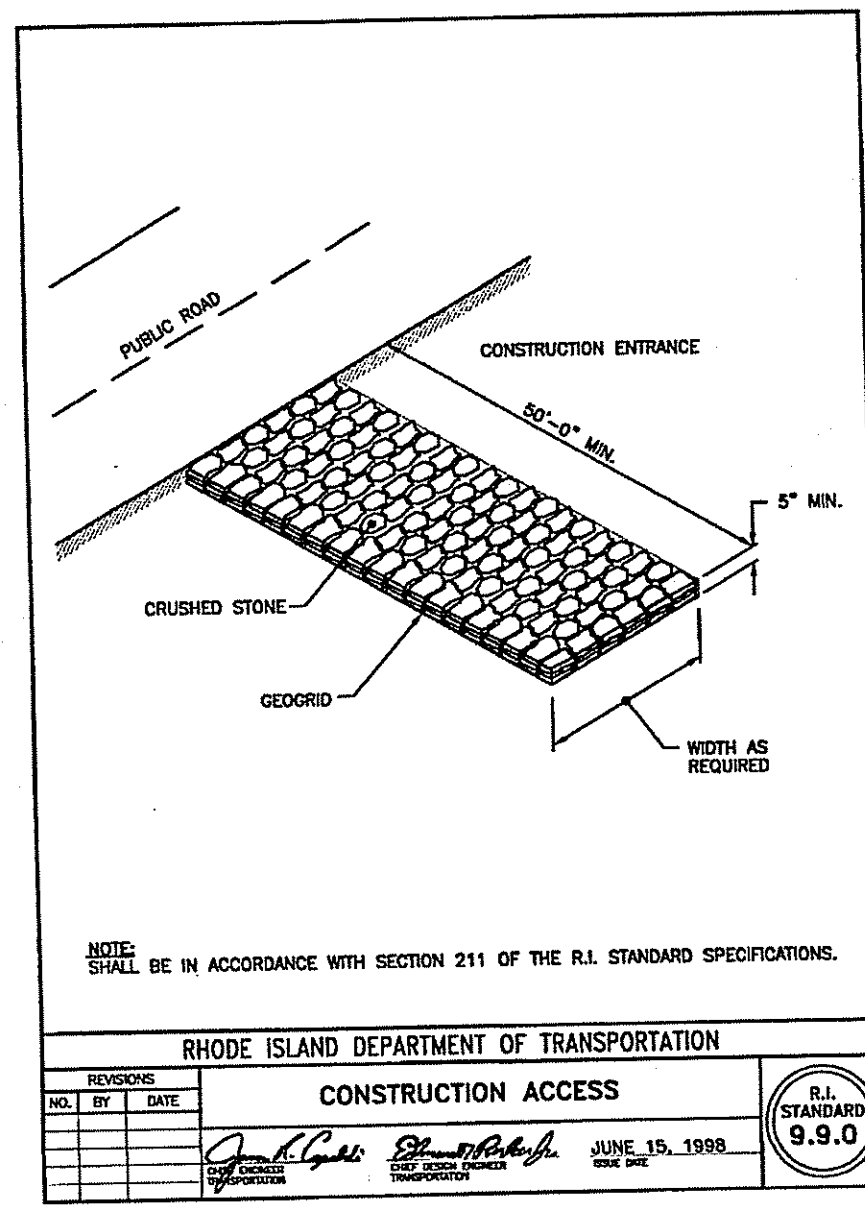
- UNIT NOTES:**
1. FINAL BEAM SIZE, REINFORCEMENT, AND CONFIGURATION TO BE DESIGNED BY PROJECT ENGINEER.
 2. UNITS SHALL BE PRECAST WITH MINIMUM 7 DAYS CURE.
 3. HEIGHT OF BEAM SHALL CORRESPOND TO HEIGHT OF VERSA-LOK UNIT(S).
 4. PLACEMENT OF UNITS SHALL BE CONSISTENT WITH THE PLACEMENT OF THE OUTFALL PIPE.
 5. INSTALL UNITS PRIOR TO CONSTRUCTION OF WALL ABOVE.
 6. OUTFALL PIPE TO EXTEND BEYOND BASE COURSE OF WALL NO LESS THAN 6" (15.2 CM).
 7. GEOTEXTILE FABRIC SHALL BE INSTALLED AROUND PIPE OPENING.
 8. UNITS TO EXTEND MINIMUM 18" EITHER SIDE OF OPENING.



SEGMENTAL RETAINING WALL W/ PIPE PENETRATION
NOT TO SCALE



RIP RAP SWALE
NOT TO SCALE

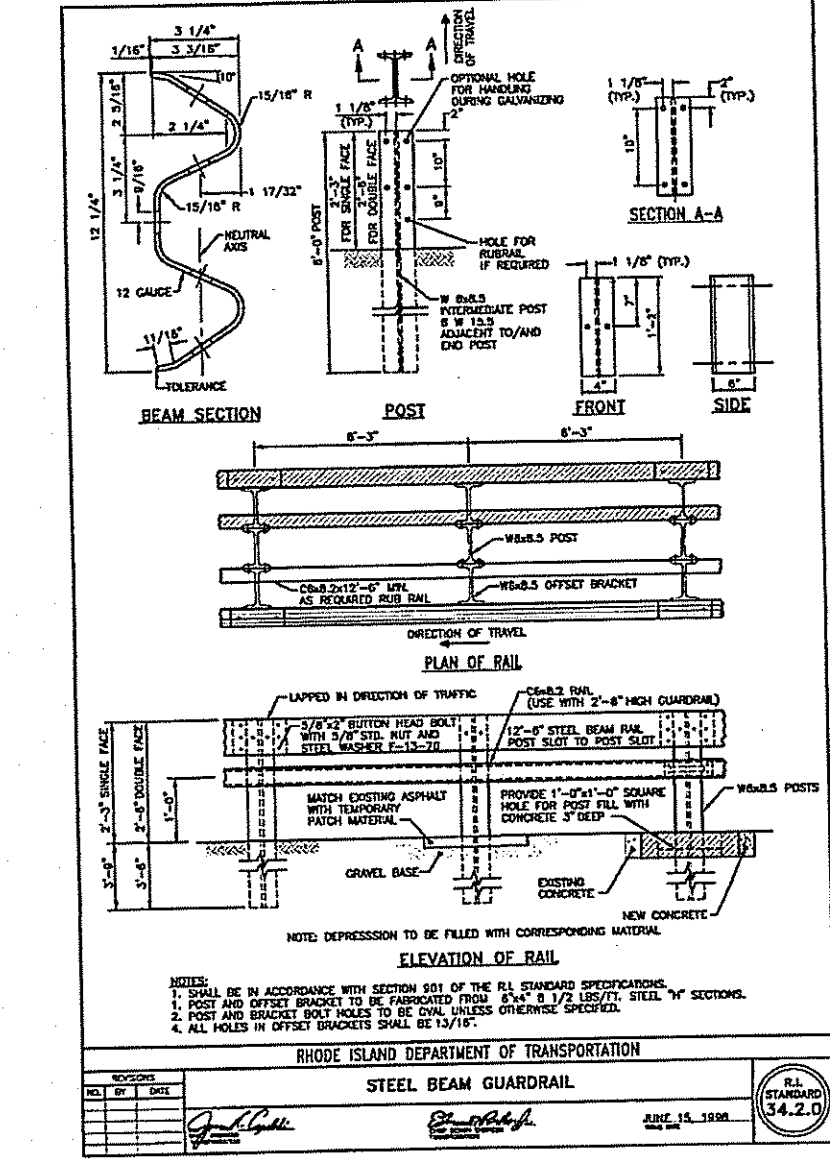


RHODE ISLAND DEPARTMENT OF TRANSPORTATION

CONSTRUCTION ACCESS

NO.	BY	DATE
1	J.P. G...	JUNE 15, 1998

STANDARD 9.9.0



RHODE ISLAND DEPARTMENT OF TRANSPORTATION

STEEL BEAM GUARDRAIL

NO.	BY	DATE
1	J.P. G...	JUNE 15, 1998

STANDARD 9.9.0

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS OF APPROVAL
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 2, 2018 FILE # 17-0274
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Yvonne D. Wenczel

Advanced Civil Design, Inc.
SITE/CIVIL ENGINEERS
88 PEEPTOAD ROAD
SQUATTA, RI 02857
PH: (401) 644-8656

NO.	DATE	REVISION
2	MAY-2018	RIDEM COMMENTS
1	FEB-2018	LAYOUT & DRAINAGE, RIDEM COMMENTS

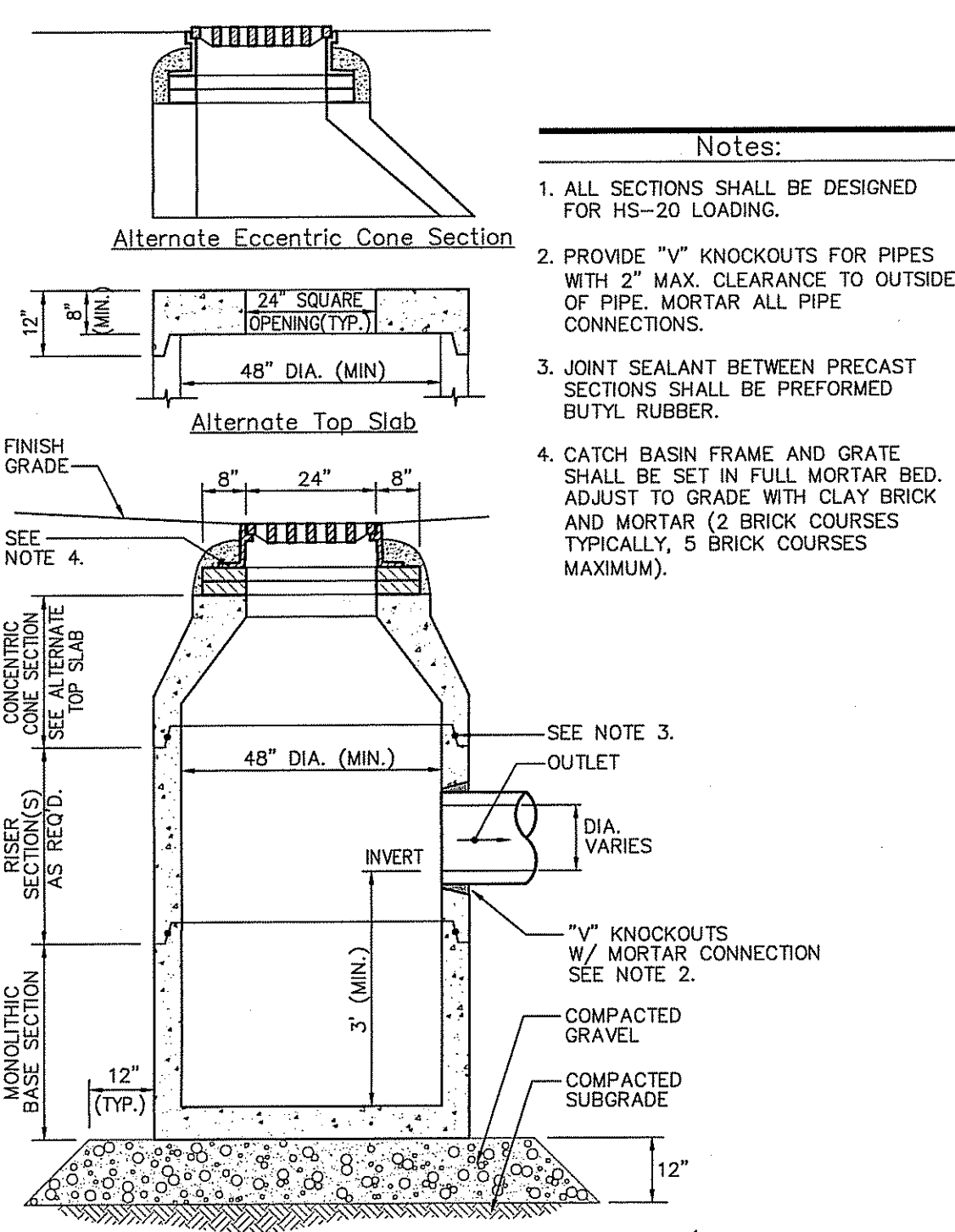
PROJECT TITLE:
Hopkins Pond

PREPARED FOR:
Drywater, LLC
51 Sockanosett Cross Road
Cranston, RI 02920

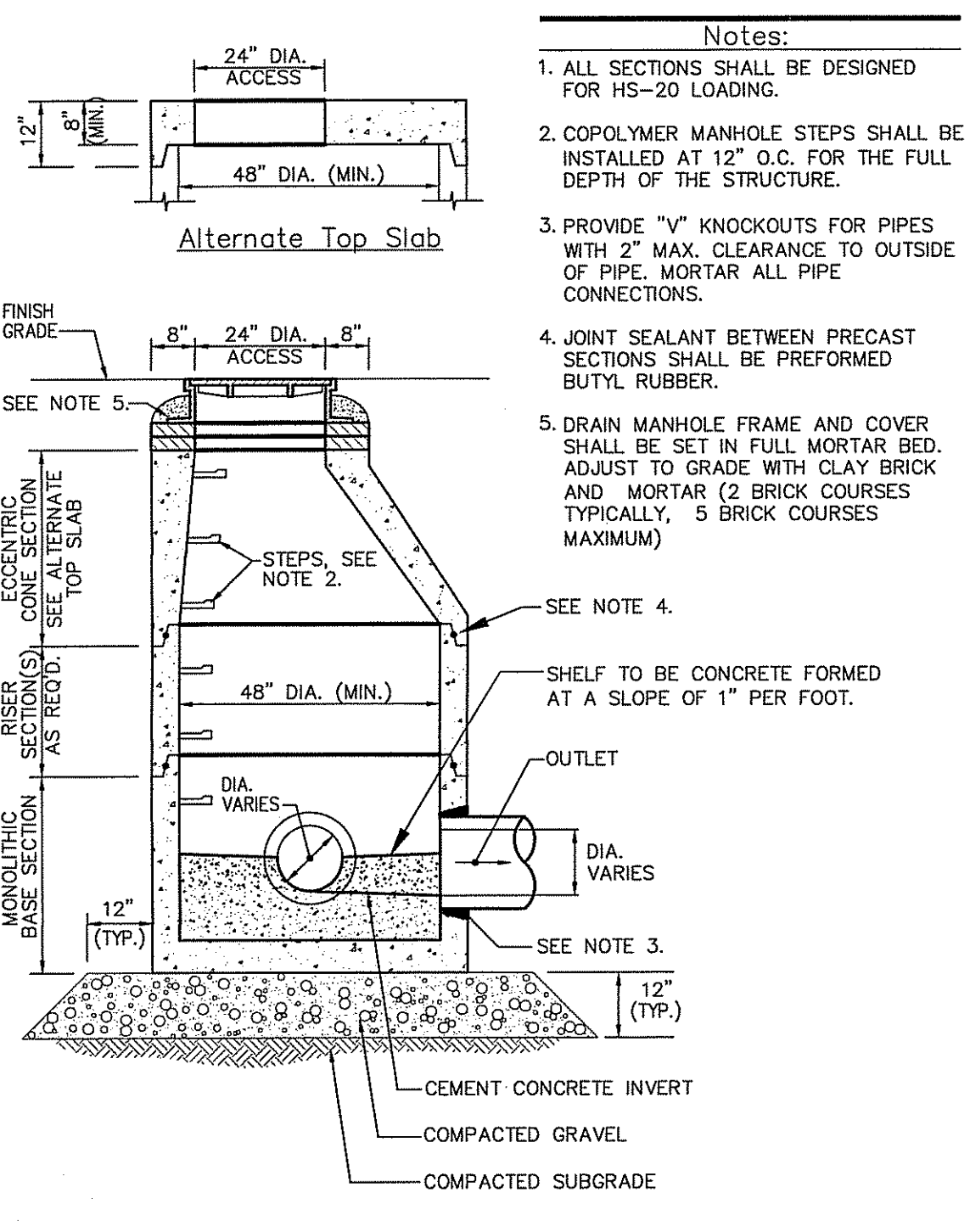
DRAWING TITLE:
Details - Materials & Erosion Control

DATE: SEPTEMBER 2017
SCALE: AS NOTED
DRAWN BY: C.S.R.
CHECKED BY: N.J.P.

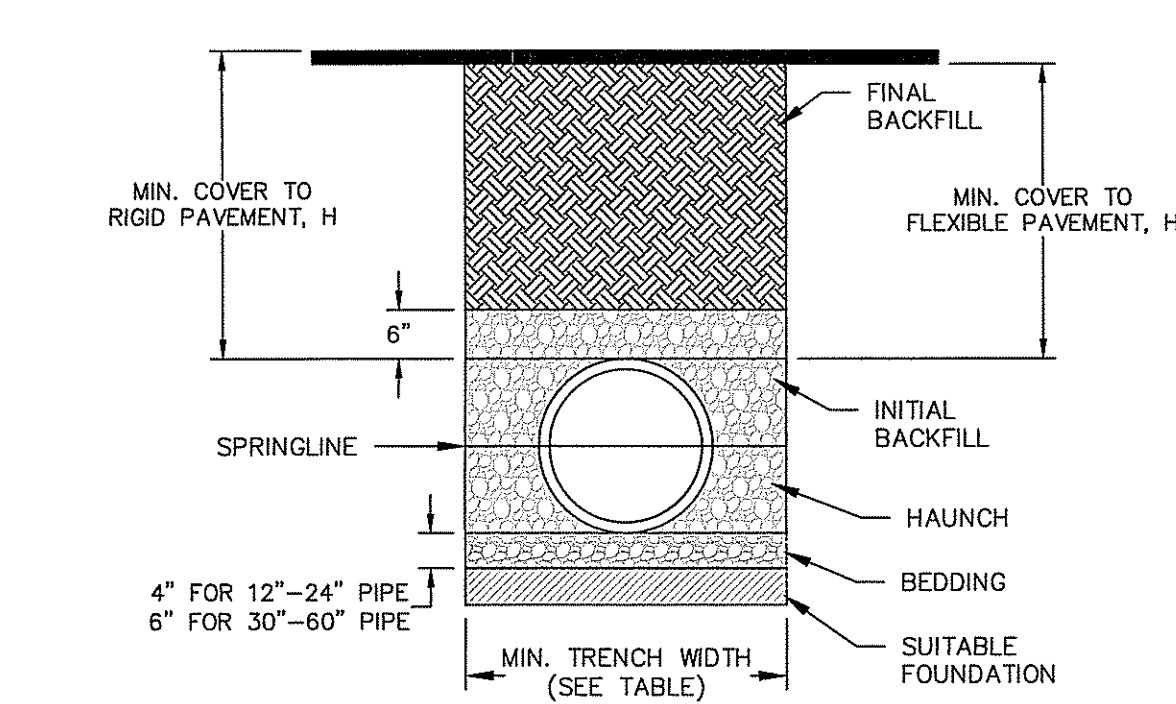
NICHOLAS J. PIAMPIANO
No. 6512
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
C-11
SHEET 11 OF 15



CATCH BASIN
NOT TO SCALE



DRAIN MANHOLE
NOT TO SCALE



RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
54"	88"
60"	96"

MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

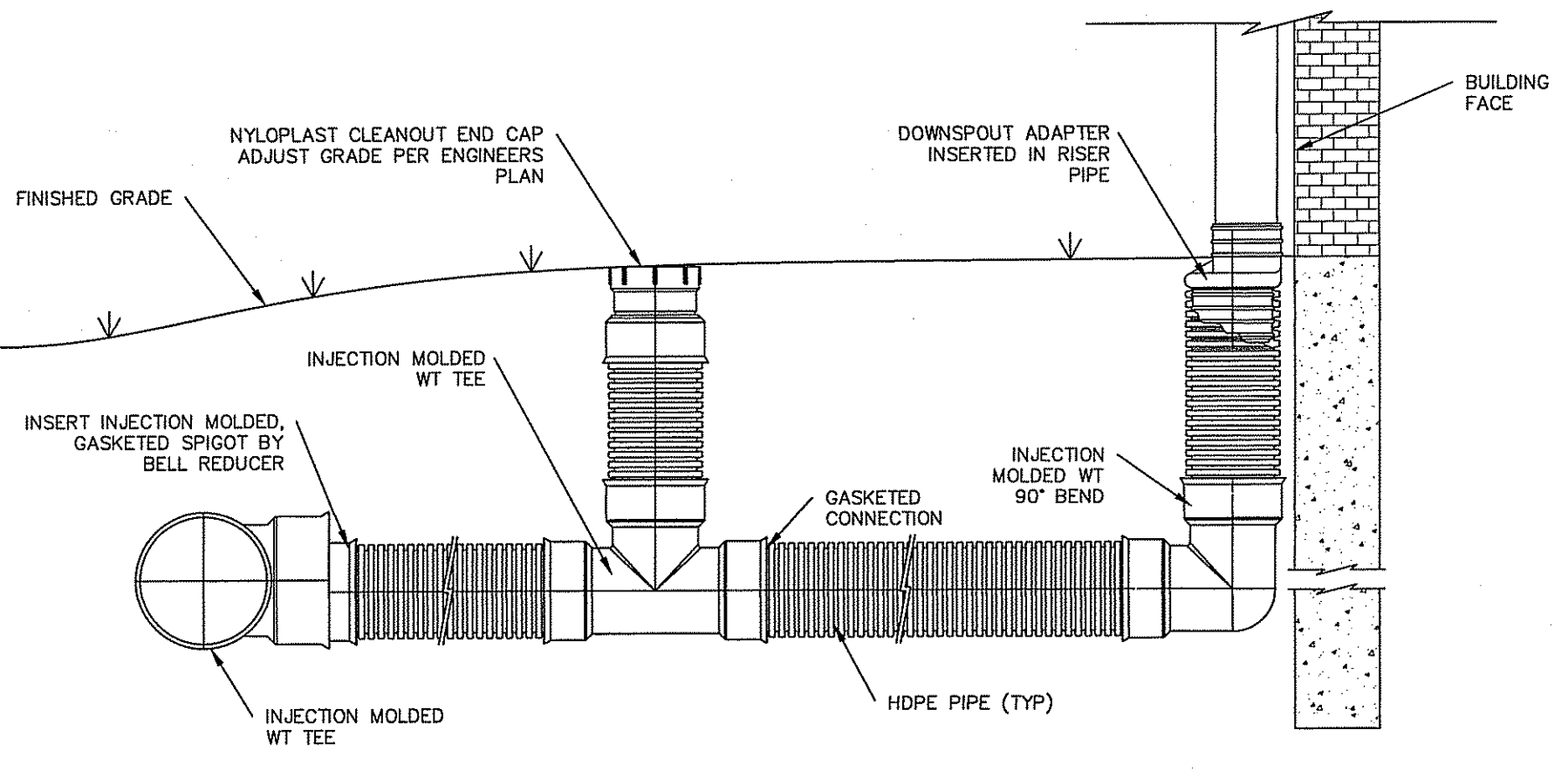
PIPE DIAM.	SURFACE LIVE LOADING CONDITION	
	H-25	HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" - 48"	12"	48"
54" - 60"	24"	60"

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

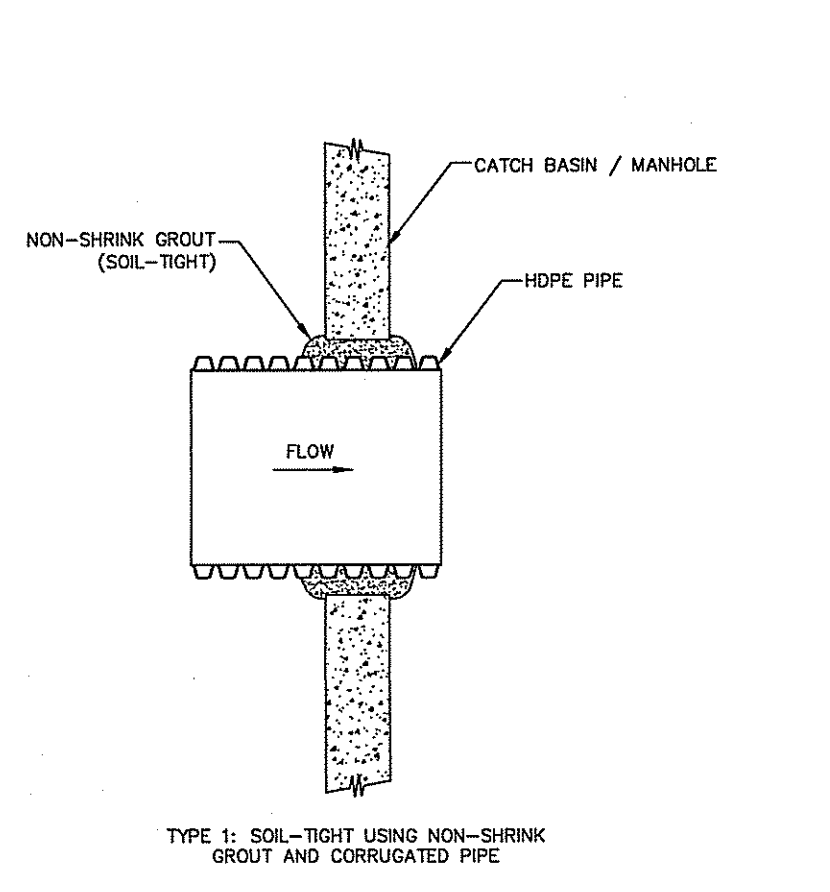
MINIMUM RECOMMENDED COVER BASED ON RAILWAY LOADING CONDITIONS

PIPE DIAM.	COOPER E-80**
	UP TO 24"
30"-36"	36"
42"-60"	48"

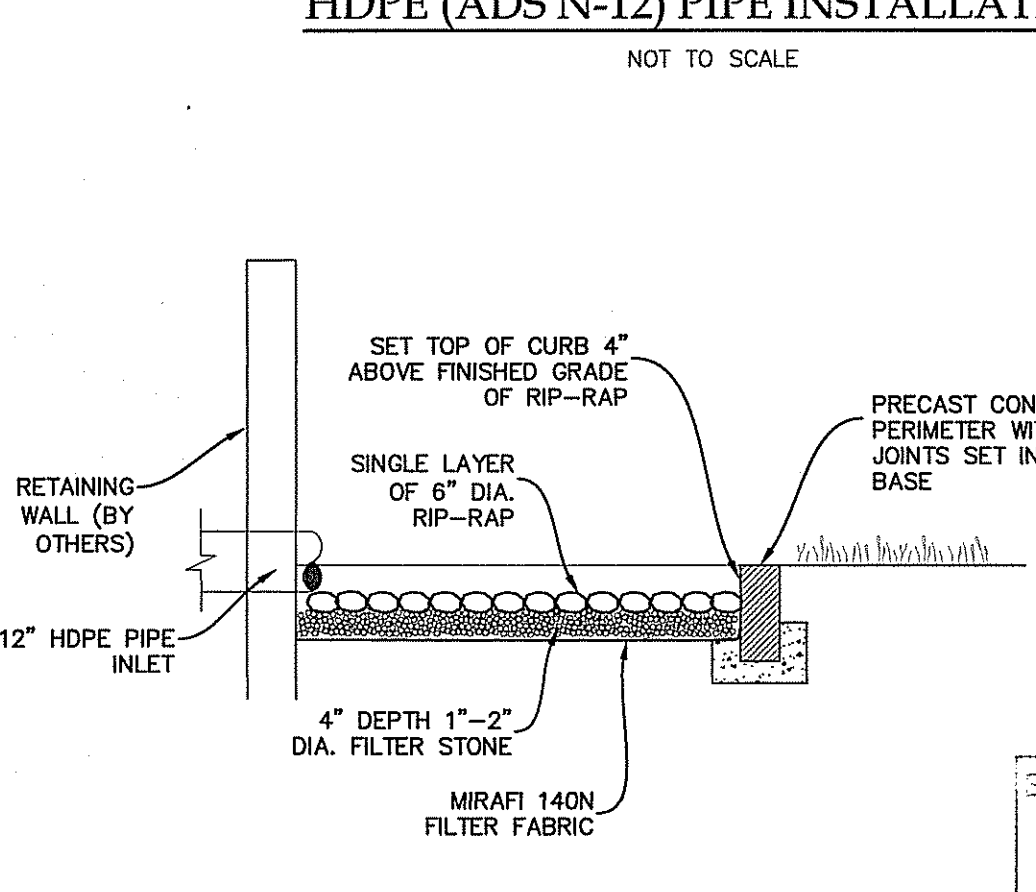
** COVER IS MEASURED FROM TOP OF PIPE TO BOTTOM OF RAILWAY TIE.
*** E-80 COVER REQUIREMENTS, ARE ONLY APPLICABLE TO ASTM F 2306 PIPE.



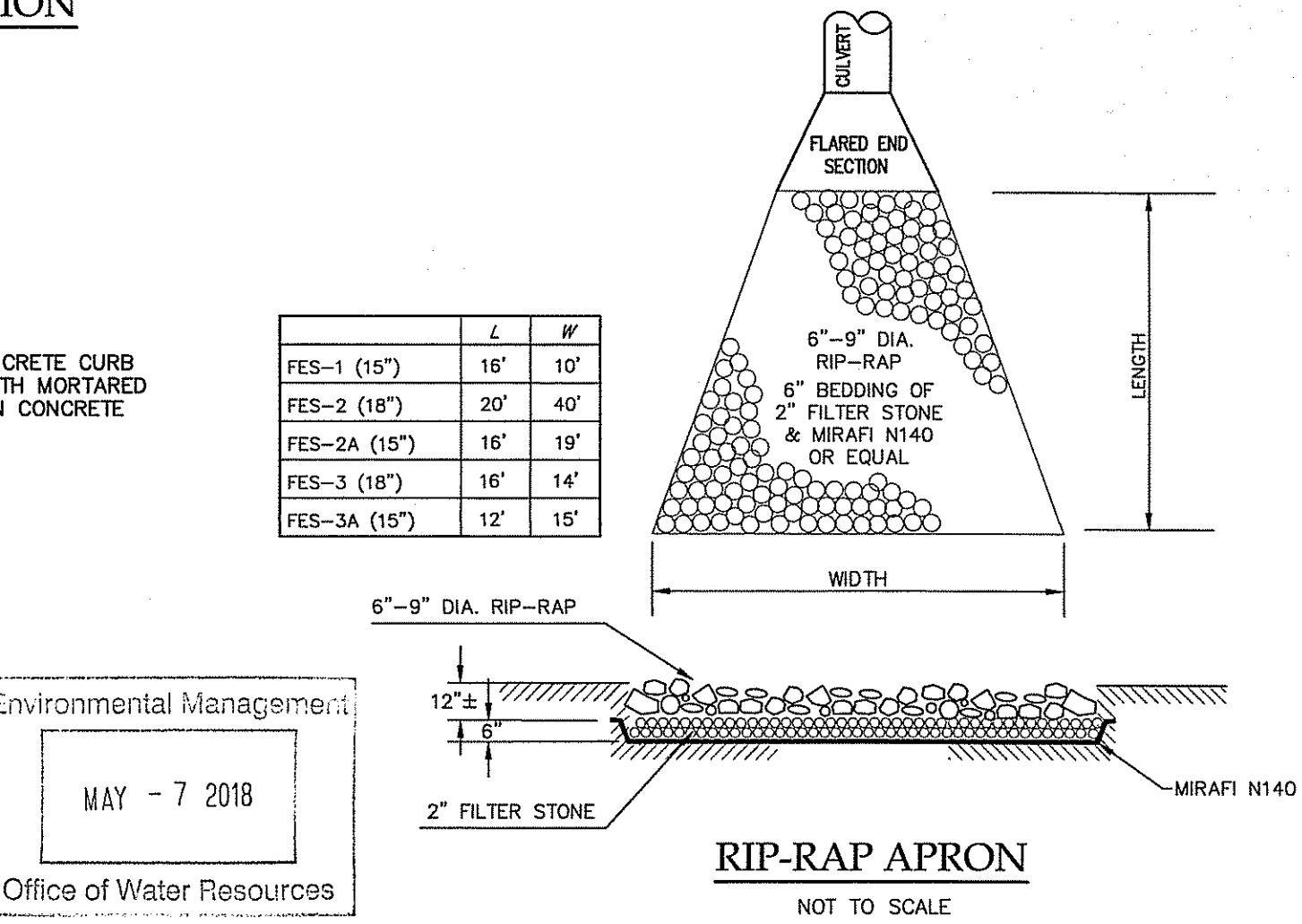
ROOF DRAIN DOWNSPOUT CONNECTION
NOT TO SCALE



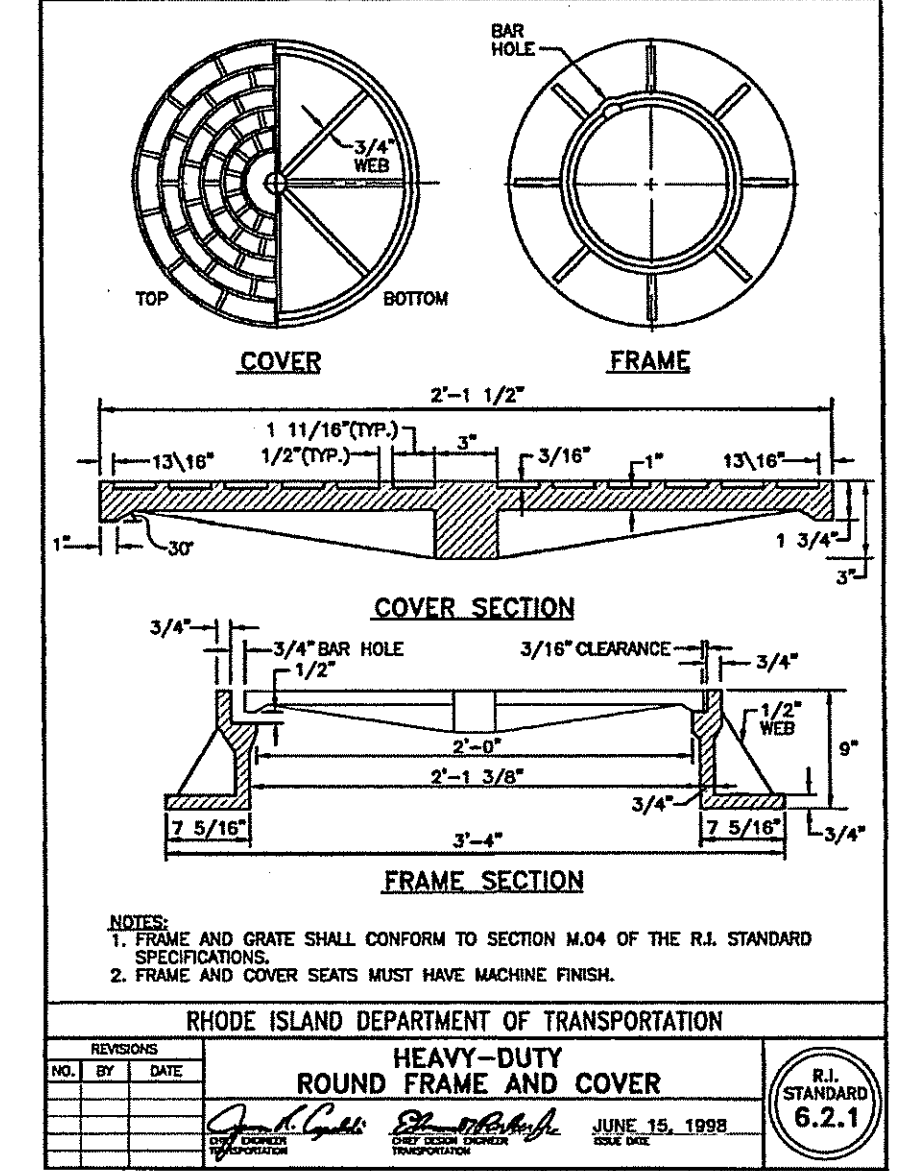
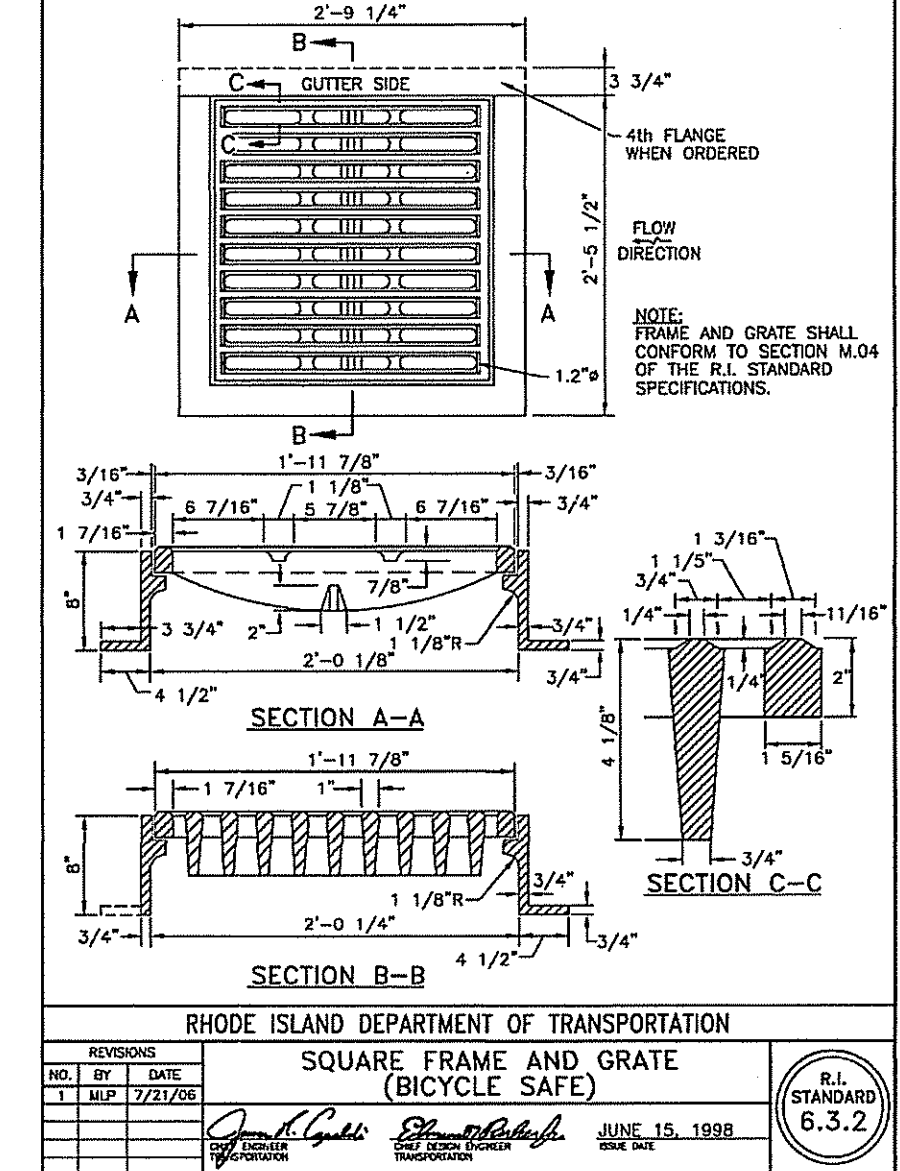
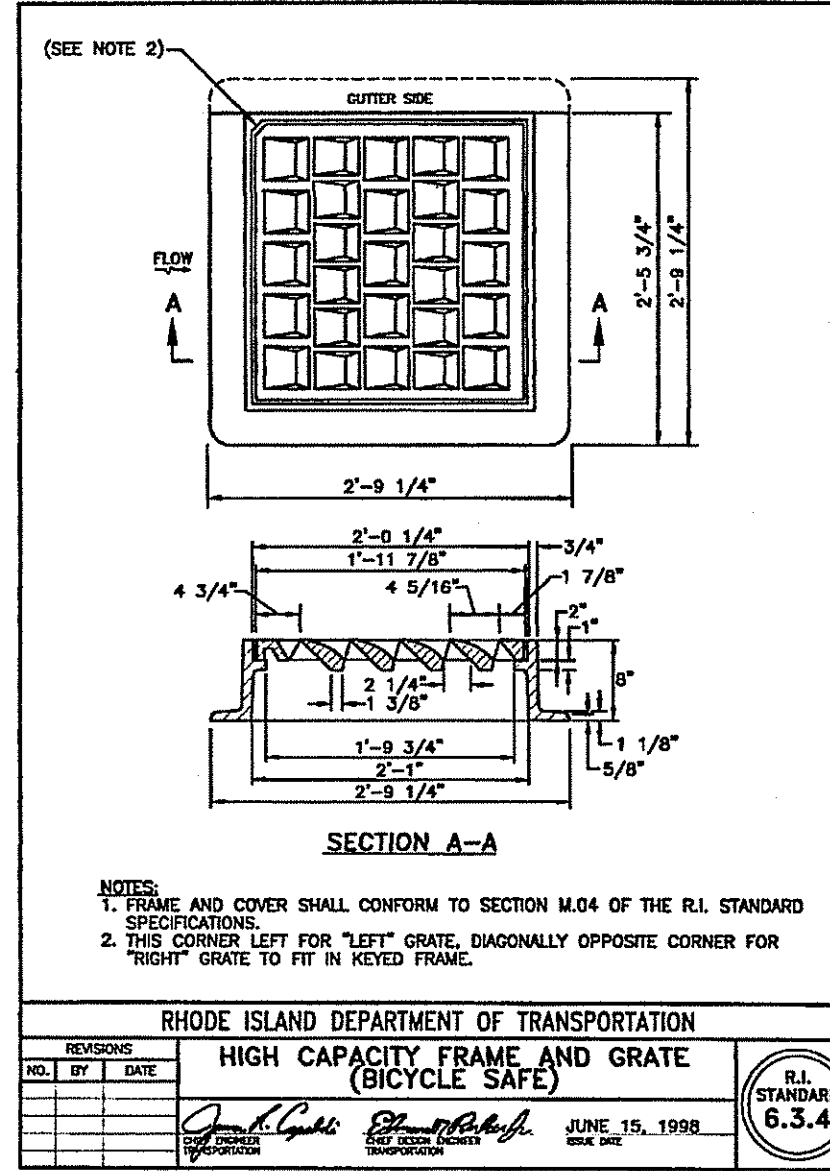
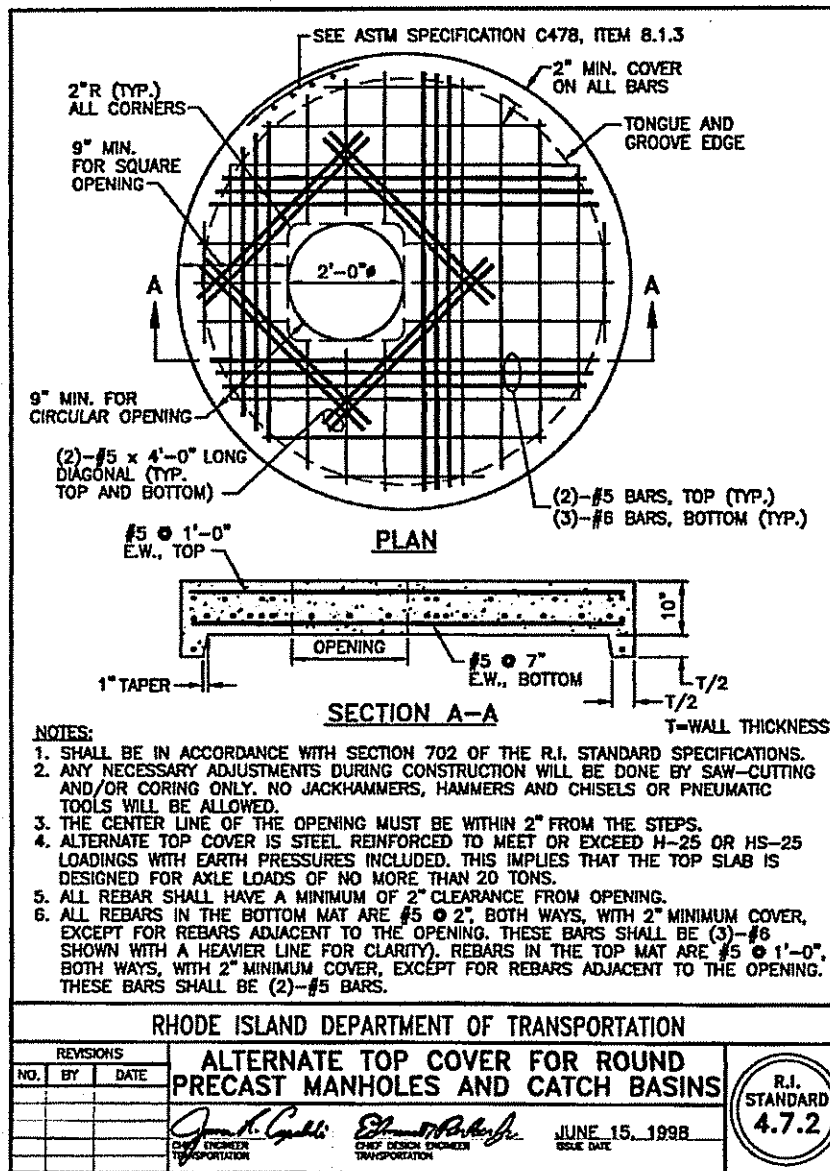
HDPE PIPE TO MANHOLE CONNECTION
NOT TO SCALE



LEVEL SPREADER DETAIL
NOT TO SCALE



Environmental Management
MAY - 7 2018
Office of Water Resources



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Signature

Advanced Civil Design, Inc.
SITE/CIVIL ENGINEERS
88 PEEPTOAD ROAD
SCITUATE, RI 02857
PH: (401) 644-8656

2 MAY-2018 RIDEM COMMENTS
1 FEB-2018 LAYOUT & DRAINAGE, RIDEM COMMENTS

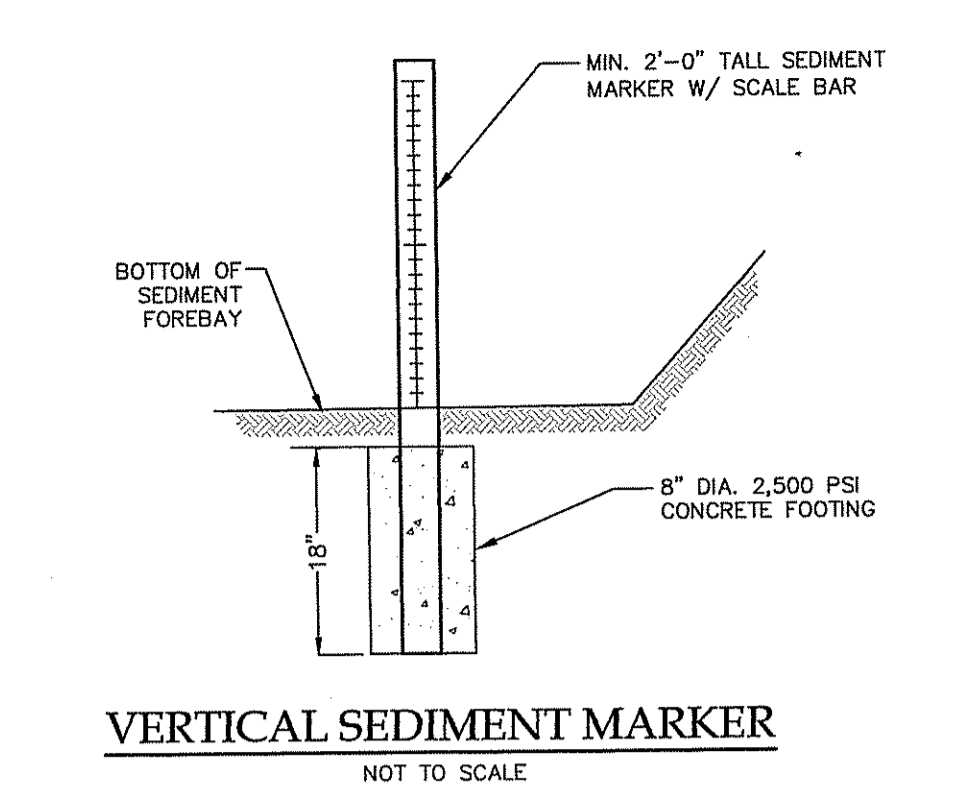
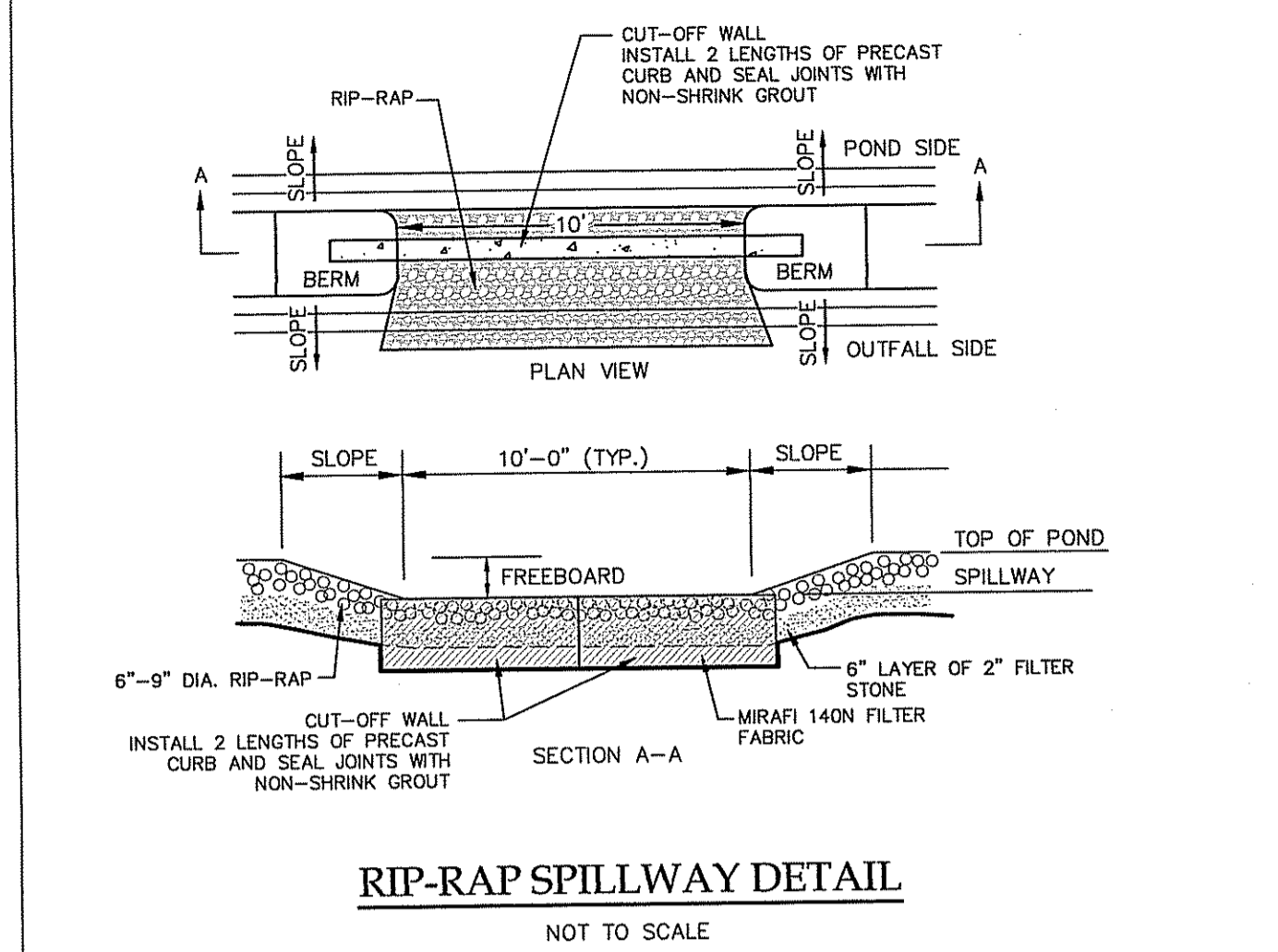
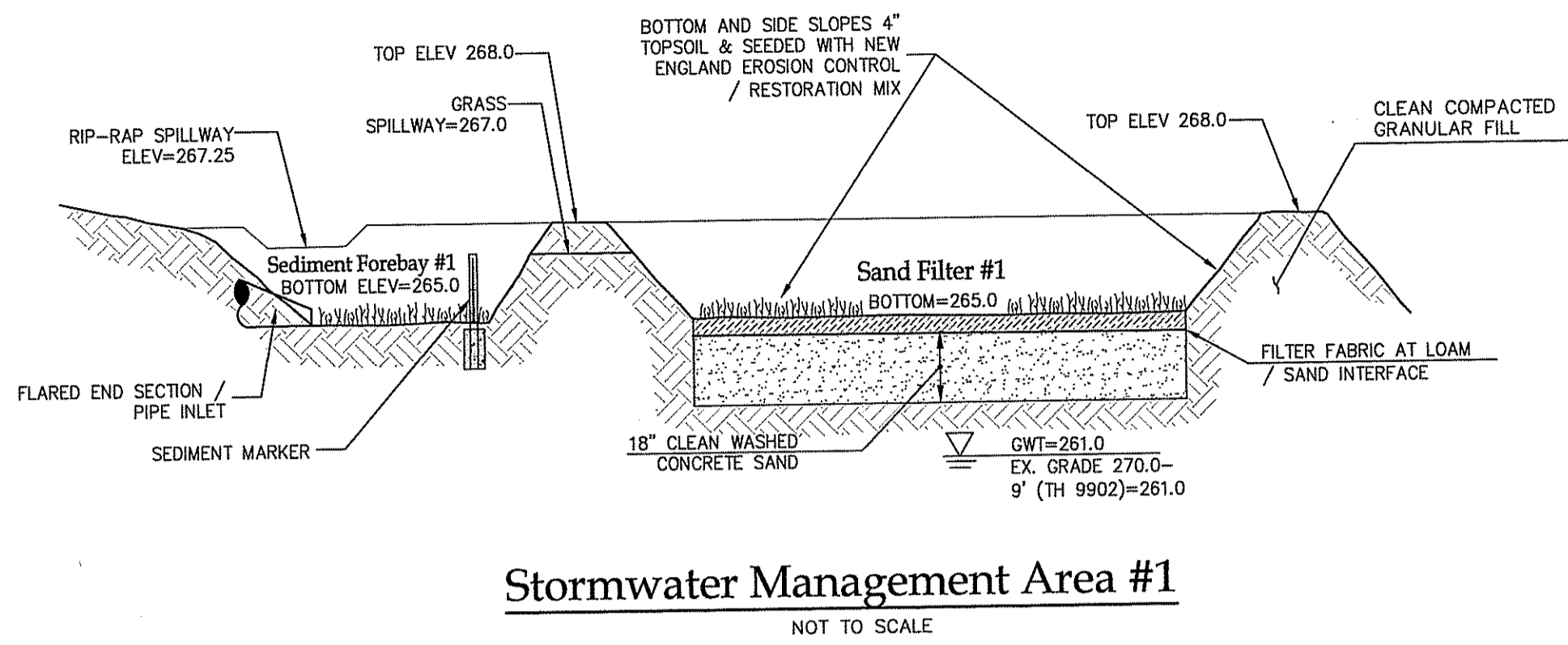
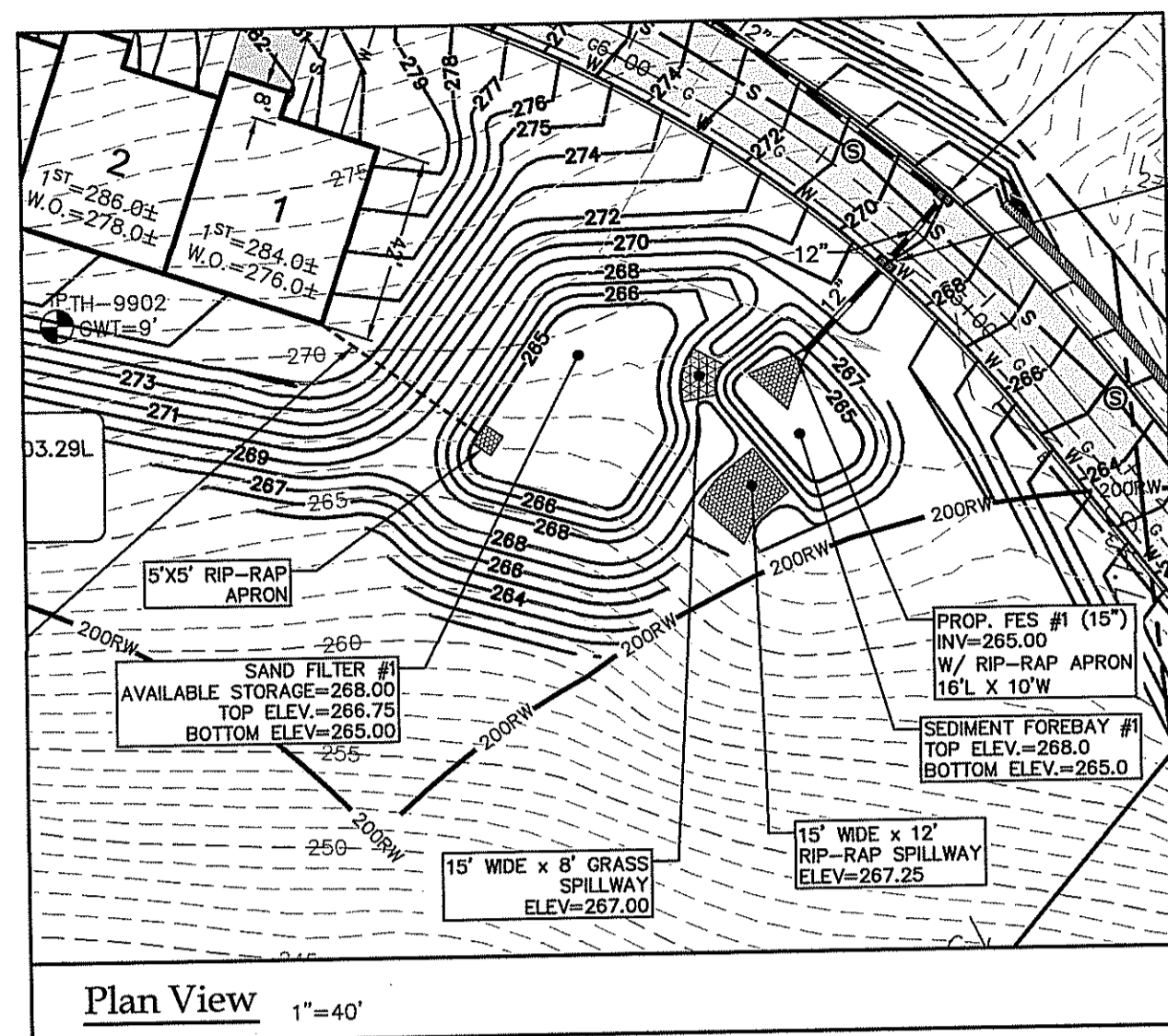
PROJECT TITLE:
Hopkins Pond
A.P. 44/4 LOT 26
Central Avenue
Johnston, RI

PREPARED FOR:
Drywater, LLC
51 Sockanosett Cross Road
Cranston, RI 02920

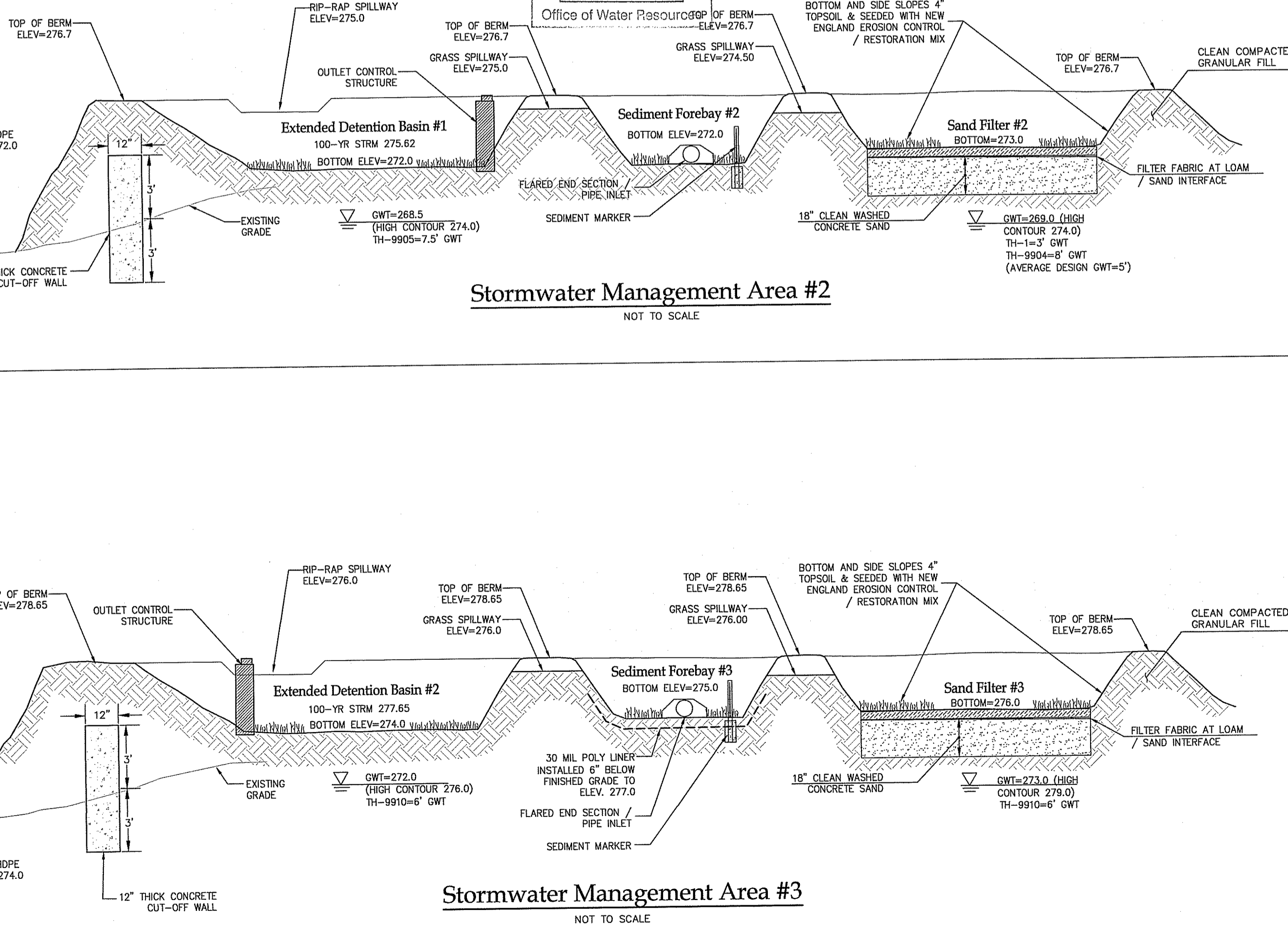
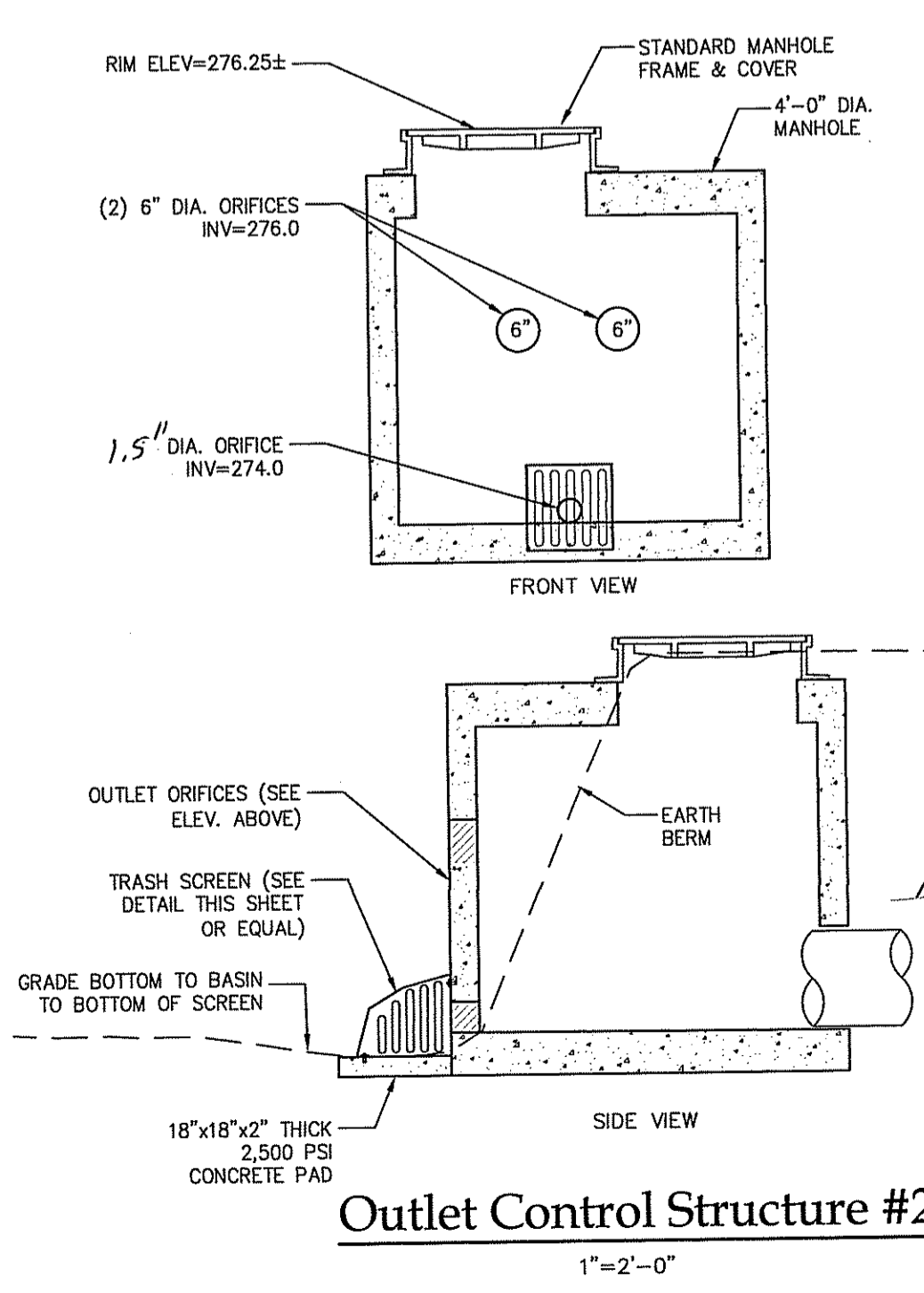
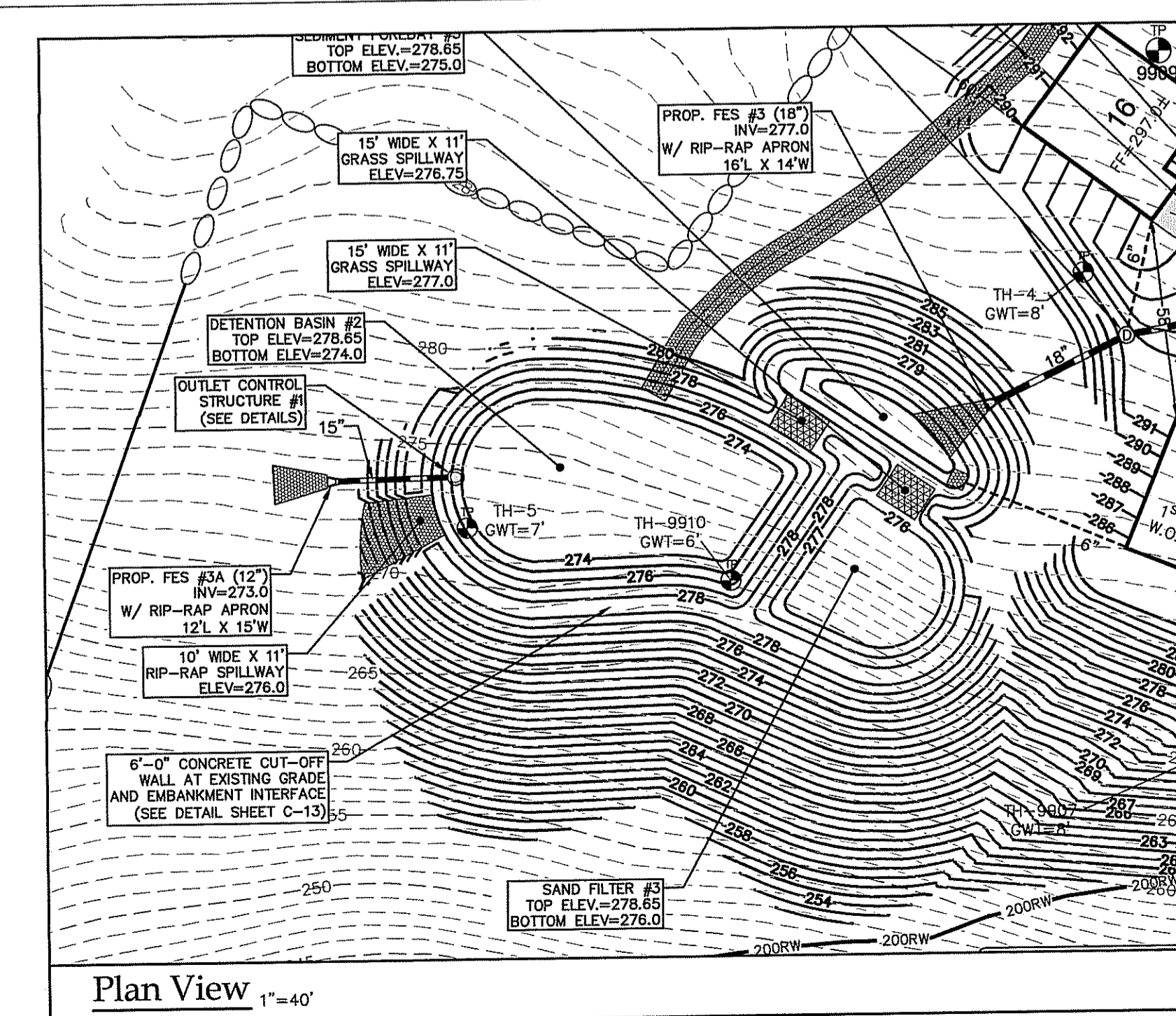
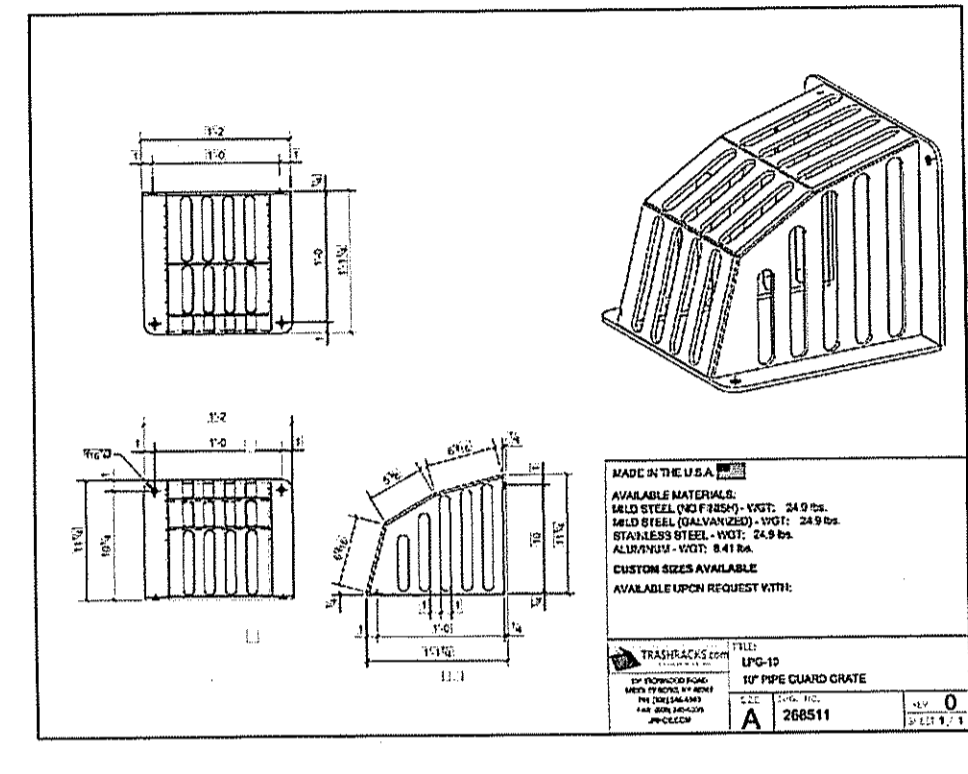
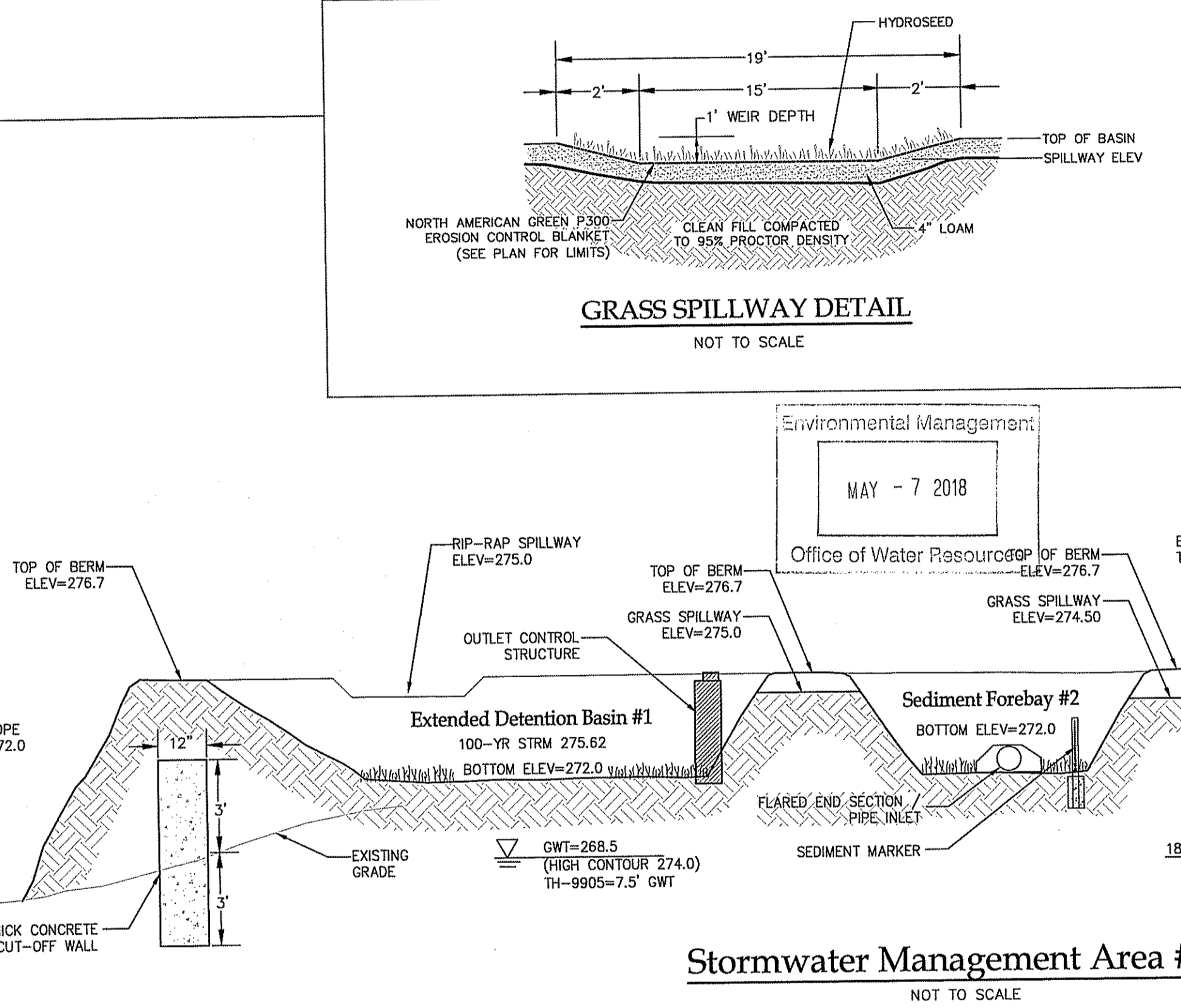
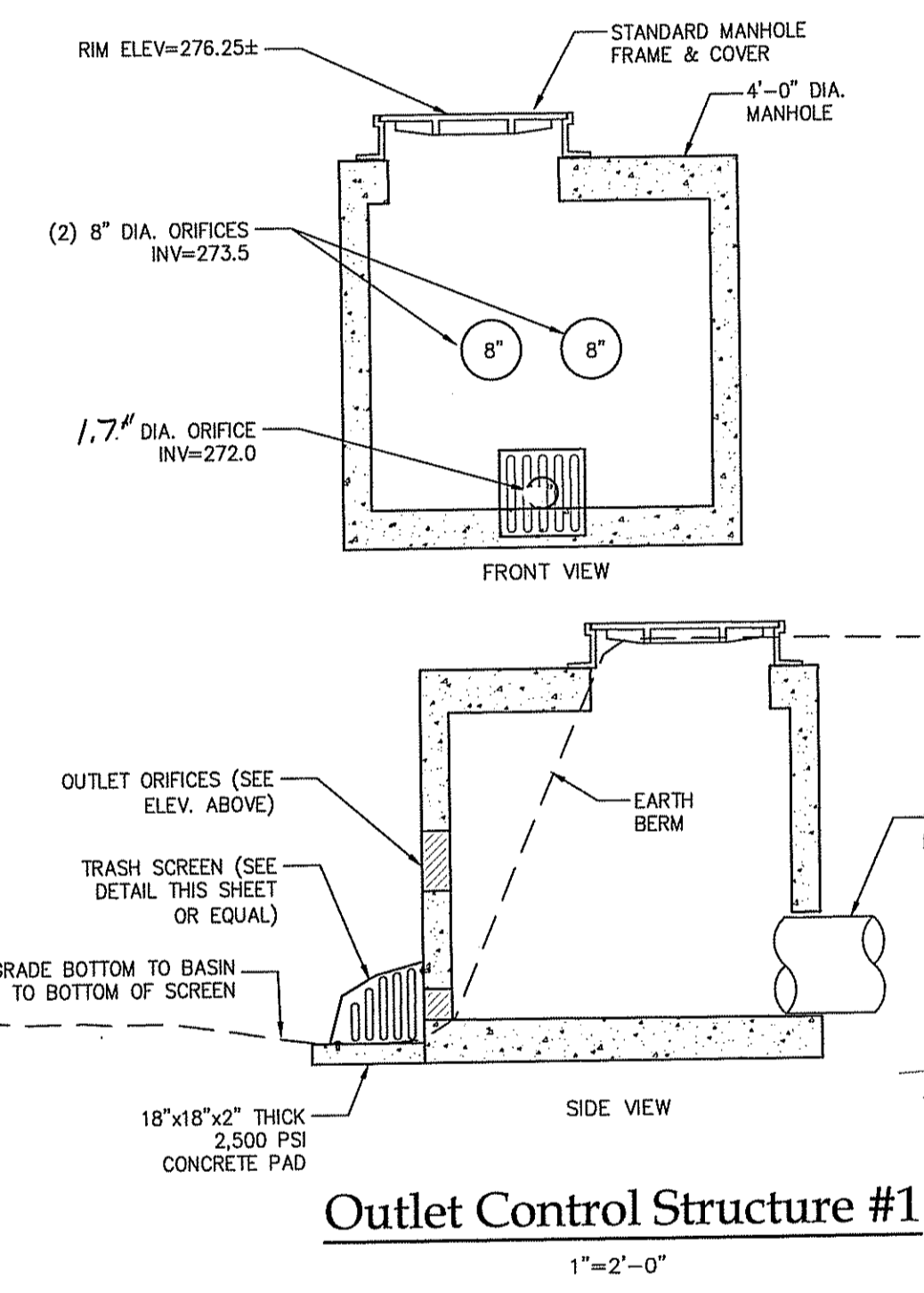
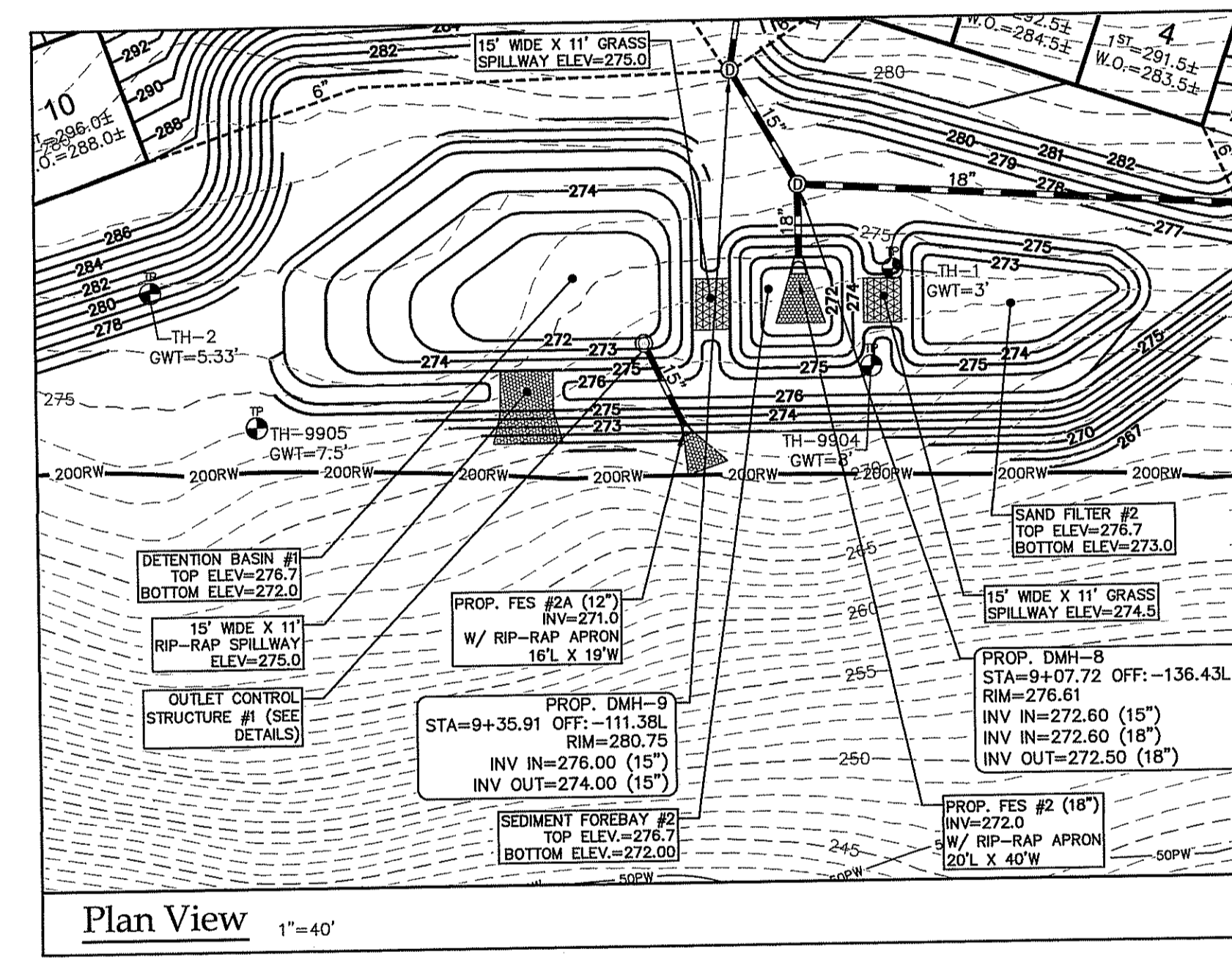
DRAWING TITLE:
Details - Stormwater

DATE: SEPTEMBER 2017 DRAWN BY: C.S.R.
SCALE: AS NOTED CHECKED BY: N.J.P.

DRAWING NO.
NICHOLAS J. PIAMPANO
No. 5512
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
C-12
SHEET 12 OF 15



TESTHOLE #	DESIGN GWT DEPTH
9901	7'-0"
9902	9'-0"
9903	5'-6"
9904	8'-0"
9905	7'-6"
9906	9'-6"
9907	8'-0"
9908	6'-6"
9910	6'-0"
9911	7'-9"
9912	7'-0"
9913	3'-0"
TH-1	3'-0"
TH-2	5'-4"
TH-3	6'-0"
TH-4	8'-0"
TH-5	7'-0"
TH-6	6'-6"
TH-7	7'-9"
TH-8	7'-0"
TH-9	7'-6"
TH-10	2'-0"



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED MAY 23 2018 FILE # 17-0-027
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Christopher D. Venezia

Advanced Civil Design, Inc.
SITE/CIVIL ENGINEERS
88 PEEPTOAD ROAD
SCITUATE, RI 02857
PH: (401) 644-8656

NO.	DATE	REVISION
2	MAY-2018	RIDEM COMMENTS
1	FEB-2018	LAYOUT & DRAINAGE, RIDEM COMMENTS

PROJECT TITLE:
Hopkins Pond
A.P. 44/A LOT 26
Central Avenue
Johnston, RI

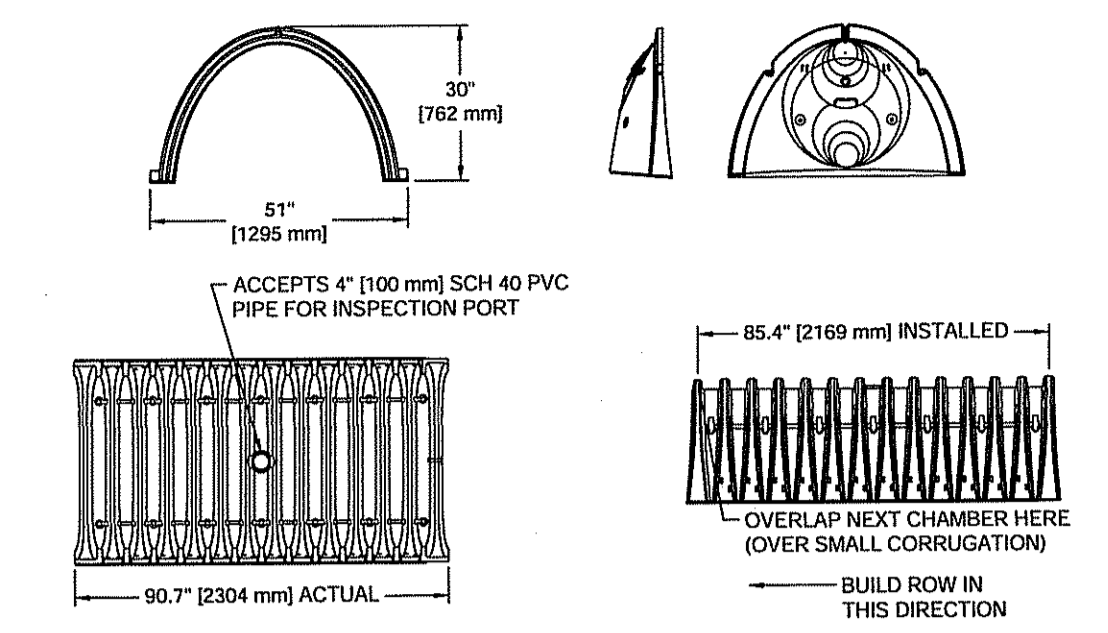
PREPARED FOR:
Drywater, LLC
51 Sockanosset Grass Road
Cranston, RI 02920

DRAWING TITLE:
Details - Stormwater

DATE: SEPTEMBER 2017
SCALE: AS NOTED

DRAWN BY: C.S.R.
CHECKED BY: N.J.P.
DRAWING NO.
C-13
SHEET 13 OF 15

NICHOLAS J. PIAMPANO
No. 6512
REGISTERED PROFESSIONAL ENGINEER (CIVIL)



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W x H x INSTALLED LENGTH)	51.0" x 30.0" x 85.4" [1295 mm x 762 mm x 2169 mm]
CHAMBER STORAGE
MINIMUM INSTALLED STORAGE
WEIGHT	75 lbs. [33.6 kg]

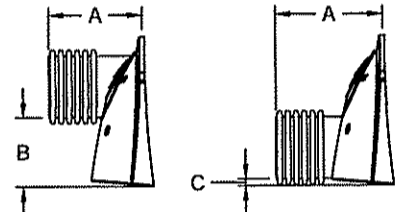
STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
 STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

PART#	STUB	A	B	C
SC740PE06T	6" [150 mm]	10.90" [277 mm]	18.50" [470 mm]	N/A
SC740PE06B	6" [150 mm]	10.90" [277 mm]	N/A	0.50" [13 mm]
SC740PE08T	8" [200 mm]	12.20" [310 mm]	16.50" [419 mm]	N/A
SC740PE08B	8" [200 mm]	12.20" [310 mm]	N/A	0.60" [15 mm]
SC740PE10T	10" [250 mm]	13.40" [340 mm]	14.50" [368 mm]	N/A
SC740PE10B	10" [250 mm]	13.40" [340 mm]	N/A	0.70" [18 mm]
SC740PE12T	12" [300 mm]	14.70" [373 mm]	12.50" [318 mm]	N/A
SC740PE12B	12" [300 mm]	14.70" [373 mm]	N/A	1.20" [30 mm]
SC740PE15T	15" [375 mm]	18.40" [467 mm]	9.00" [229 mm]	N/A
SC740PE15B	15" [375 mm]	18.40" [467 mm]	N/A	1.30" [33 mm]
SC740PE18T	18" [450 mm]	19.70" [500 mm]	5.00" [127 mm]	N/A
SC740PE18B	18" [450 mm]	19.70" [500 mm]	N/A	1.60" [41 mm]
SC740PE24B	24" [600 mm]	18.50" [470 mm]	N/A	0.10" [3 mm]

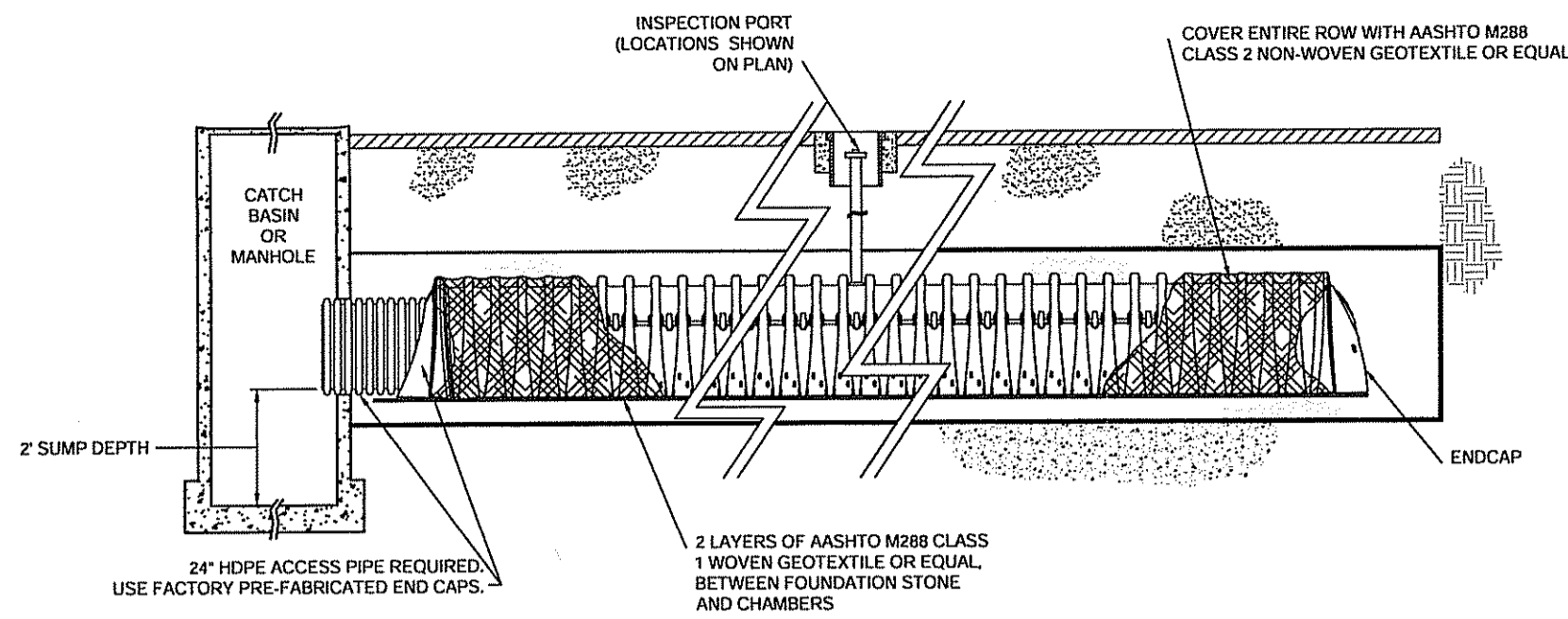
NOTE: ALL DIMENSIONS ARE NOMINAL

ALL STUBS, EXCEPT FOR THE SC740PE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2894.

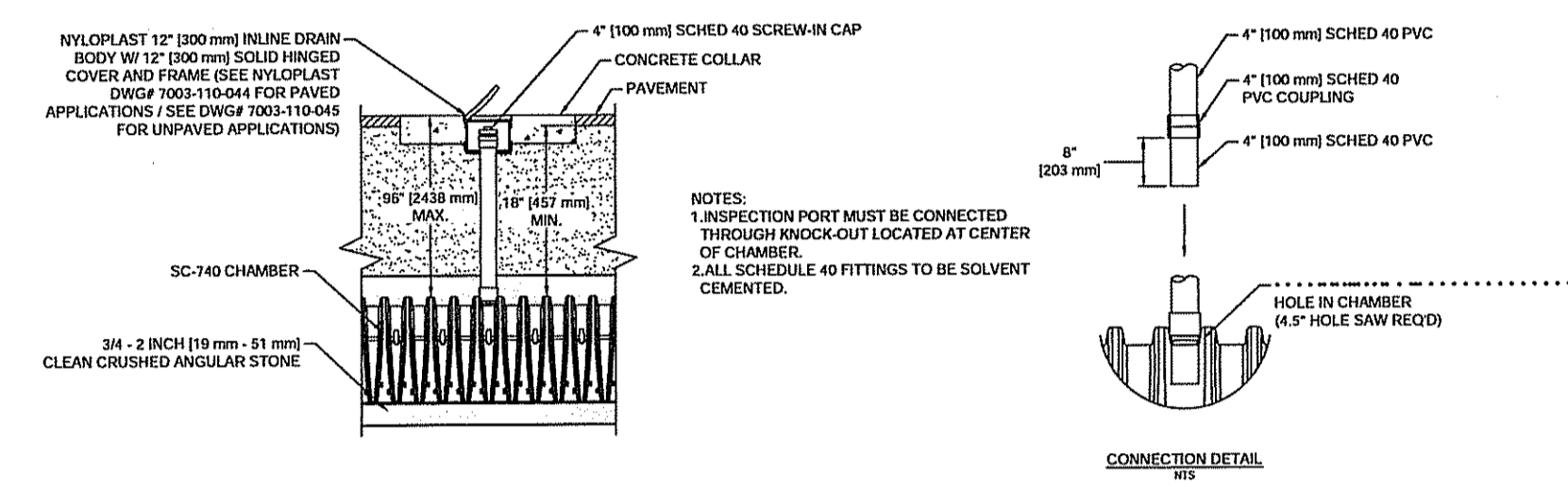
*FOR THE SC740PE24B THE 24" [600 mm] STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" [44 mm]. BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.



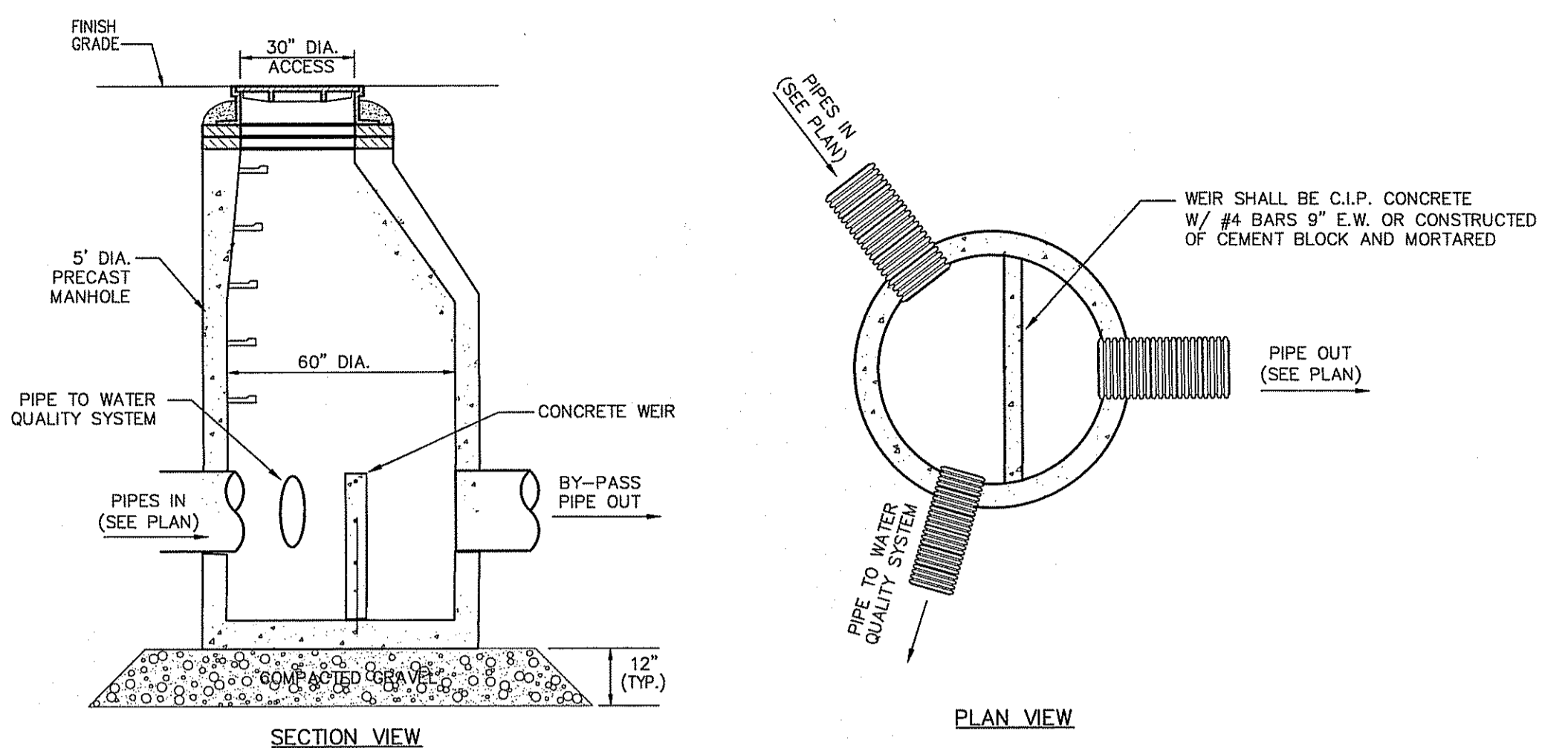
SC-740 TECHNICAL SPECIFICATION



ISOLATOR ROW DETAIL



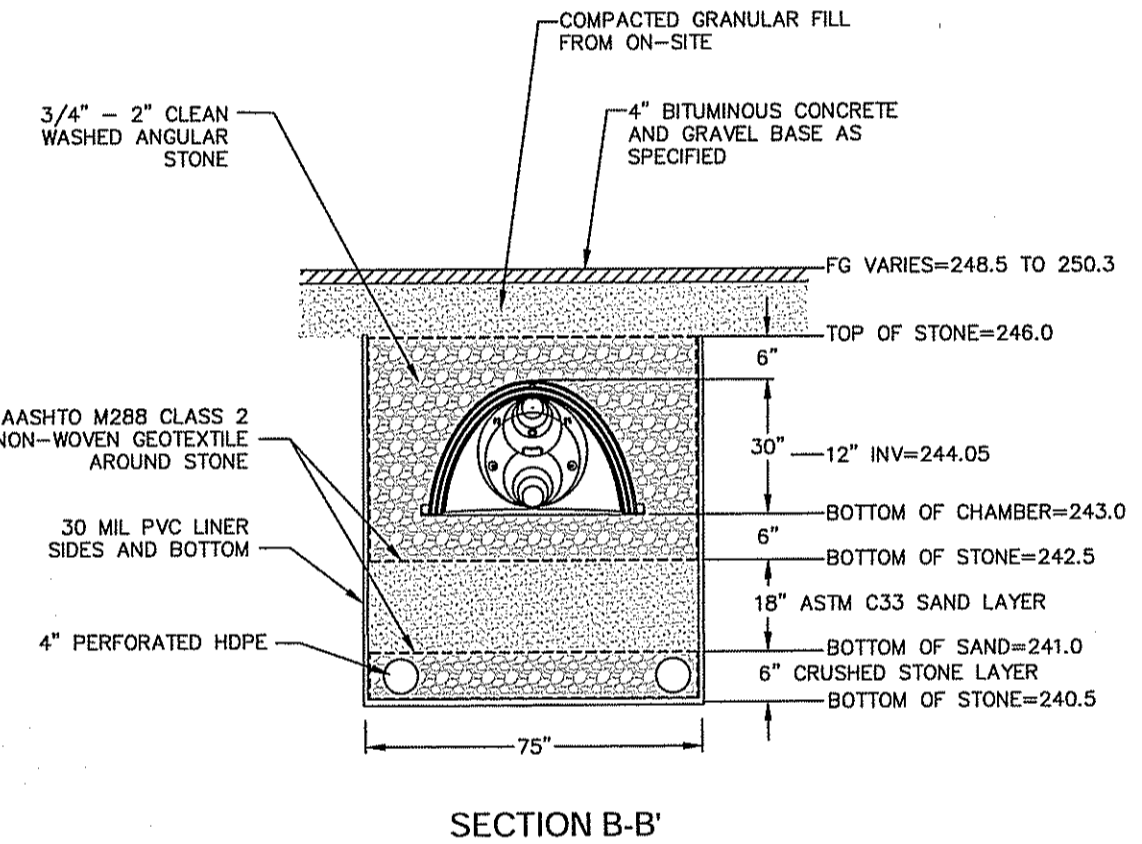
SC-740 INSPECTION PORT DETAIL



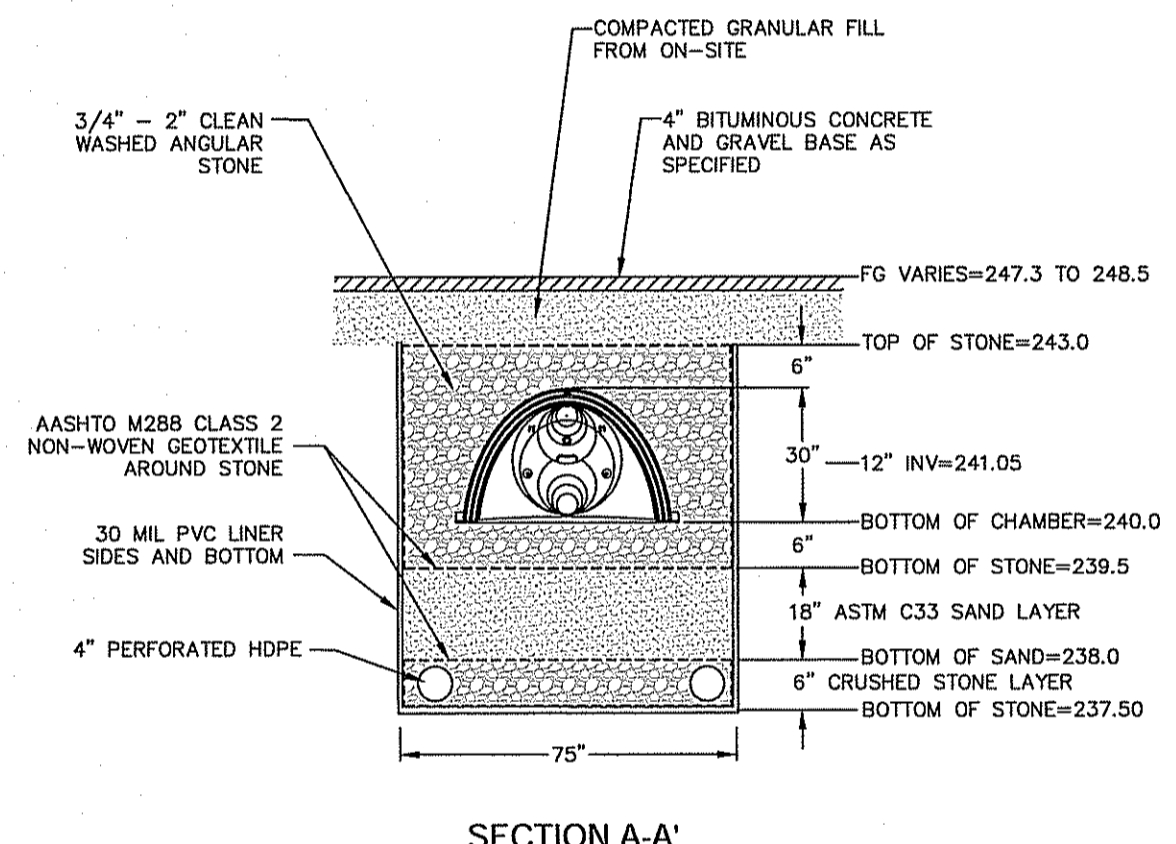
Drain Manhole w/ Weir (Diversion Manhole)

NOT TO SCALE

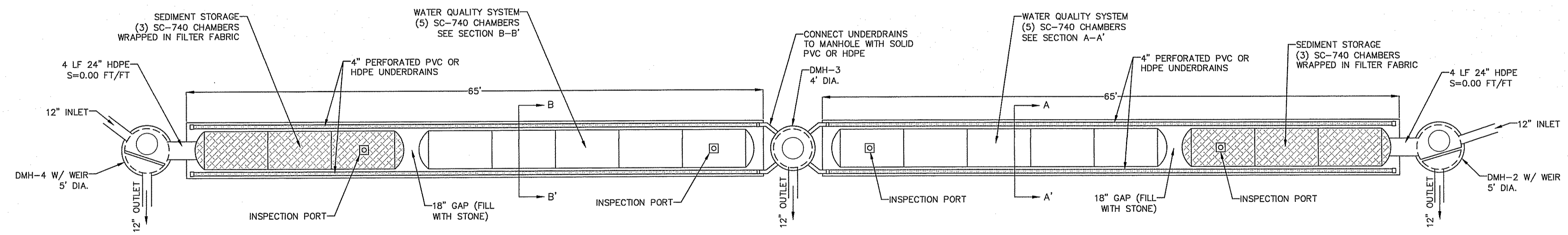
Environmental Management
 MAY - 7 2018
 Office of Water Resources



SECTION B-B'

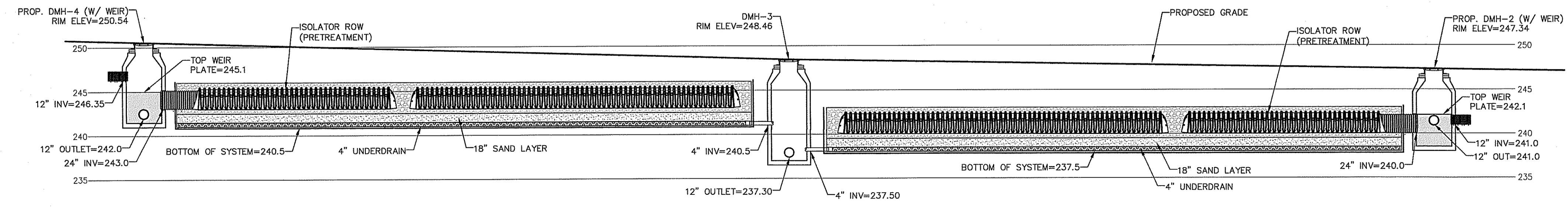


SECTION A-A'



Subsurface Water Quality System #2

Subsurface Water Quality System #1



Subsurface Water Quality Systems Profile

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
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 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED MAY 23 2018 FILE # 17-0275
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Signature

Advanced Civil Design, Inc.
 SITE/CIVIL ENGINEERS
 88 PEEPTOAD ROAD
 SCITUATE, RI 02857
 PH: (401) 644-8656

2	MAY-2018	RIDEM COMMENTS
1	FEB-2018	LAYOUT & DRAINAGE, RIDEM COMMENTS

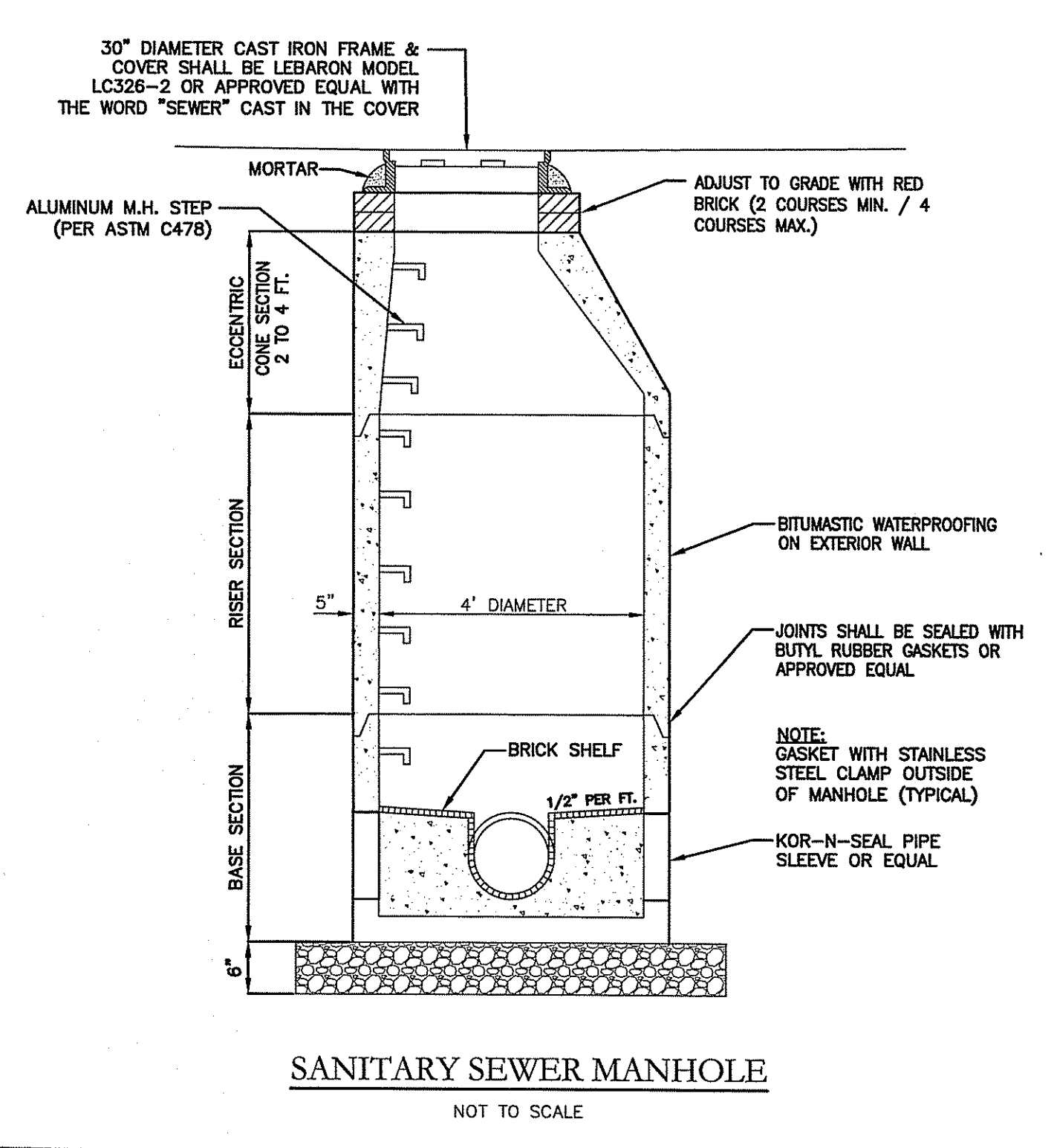
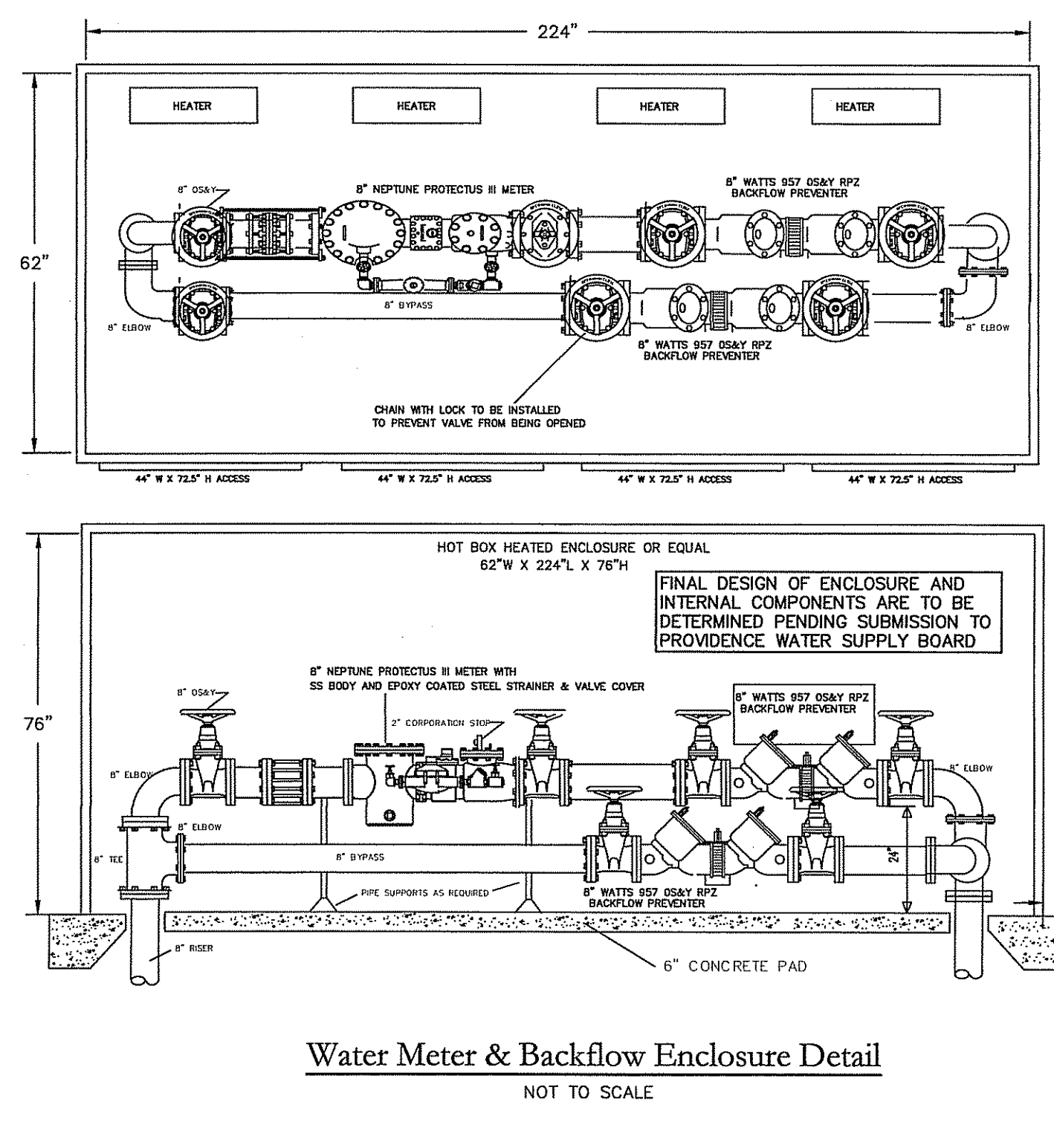
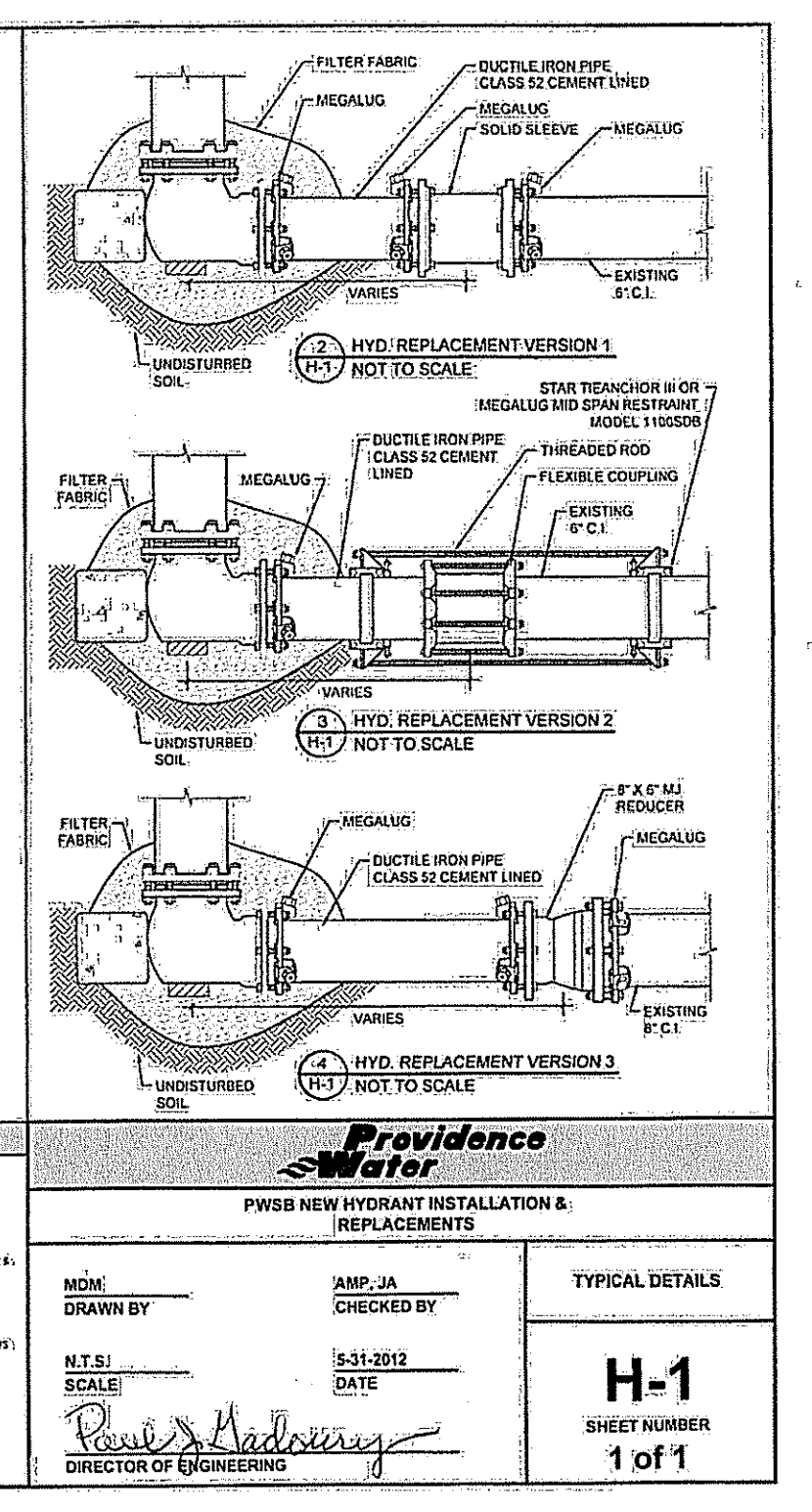
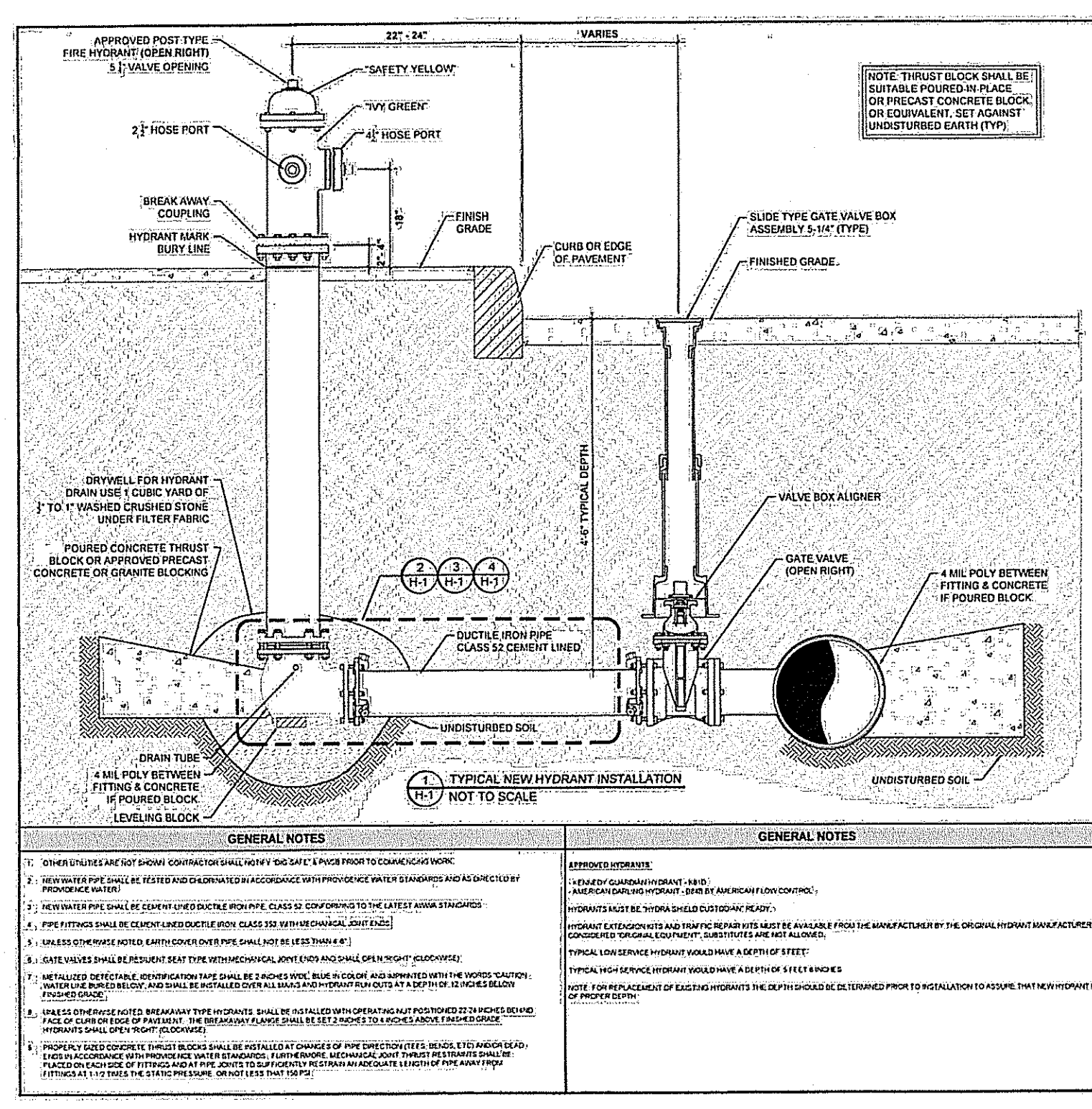
PROJECT TITLE:
Hopkins Pond
 A.P. 44/1 LOT 28
 Central Avenue
 Johnston, RI

PREPARED FOR:
 Drywater, LLC
 51 Sockanosett Cross Road
 Cranston, RI 02920

DRAWING TITLE:
Details - Stormwater

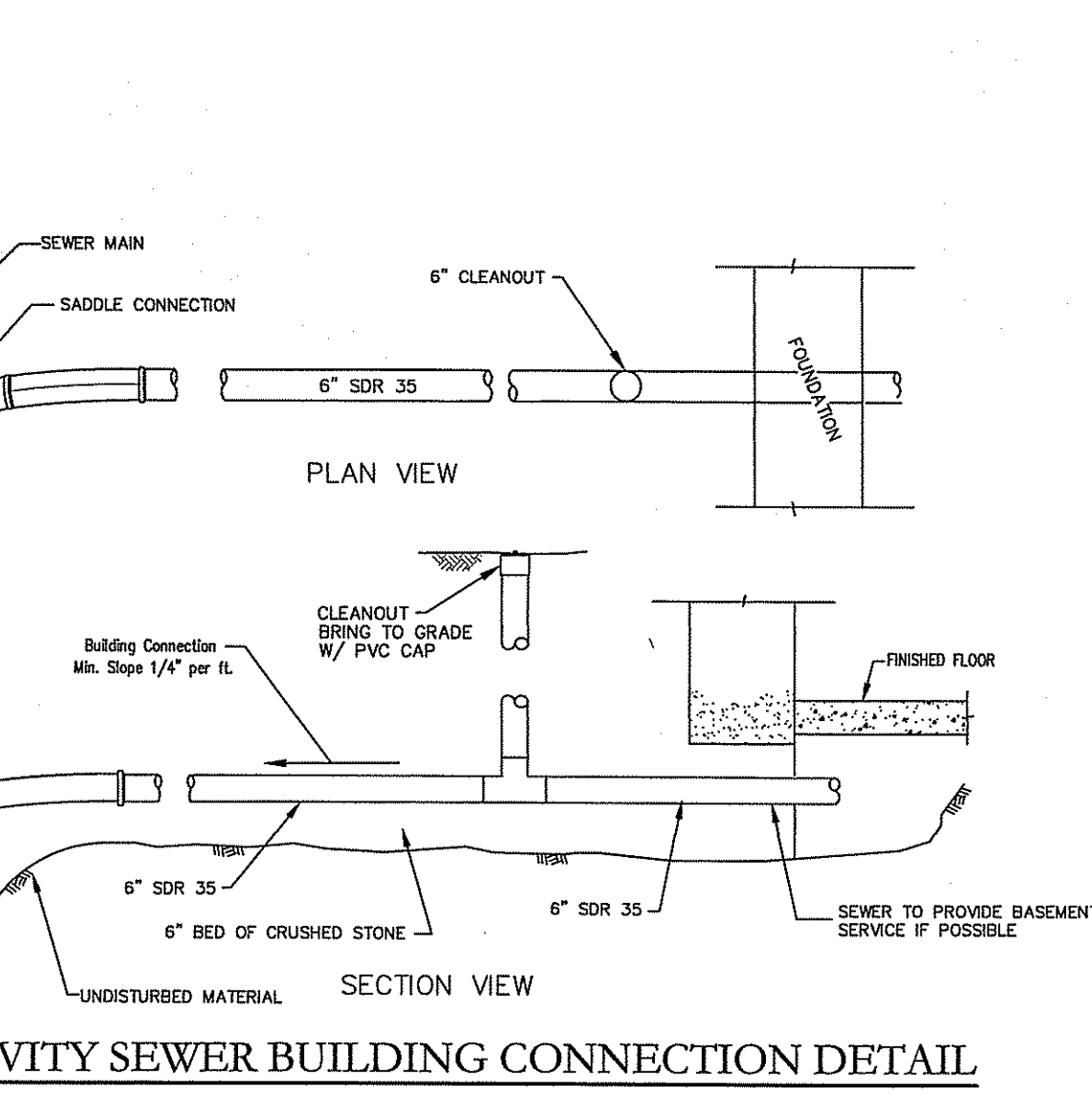
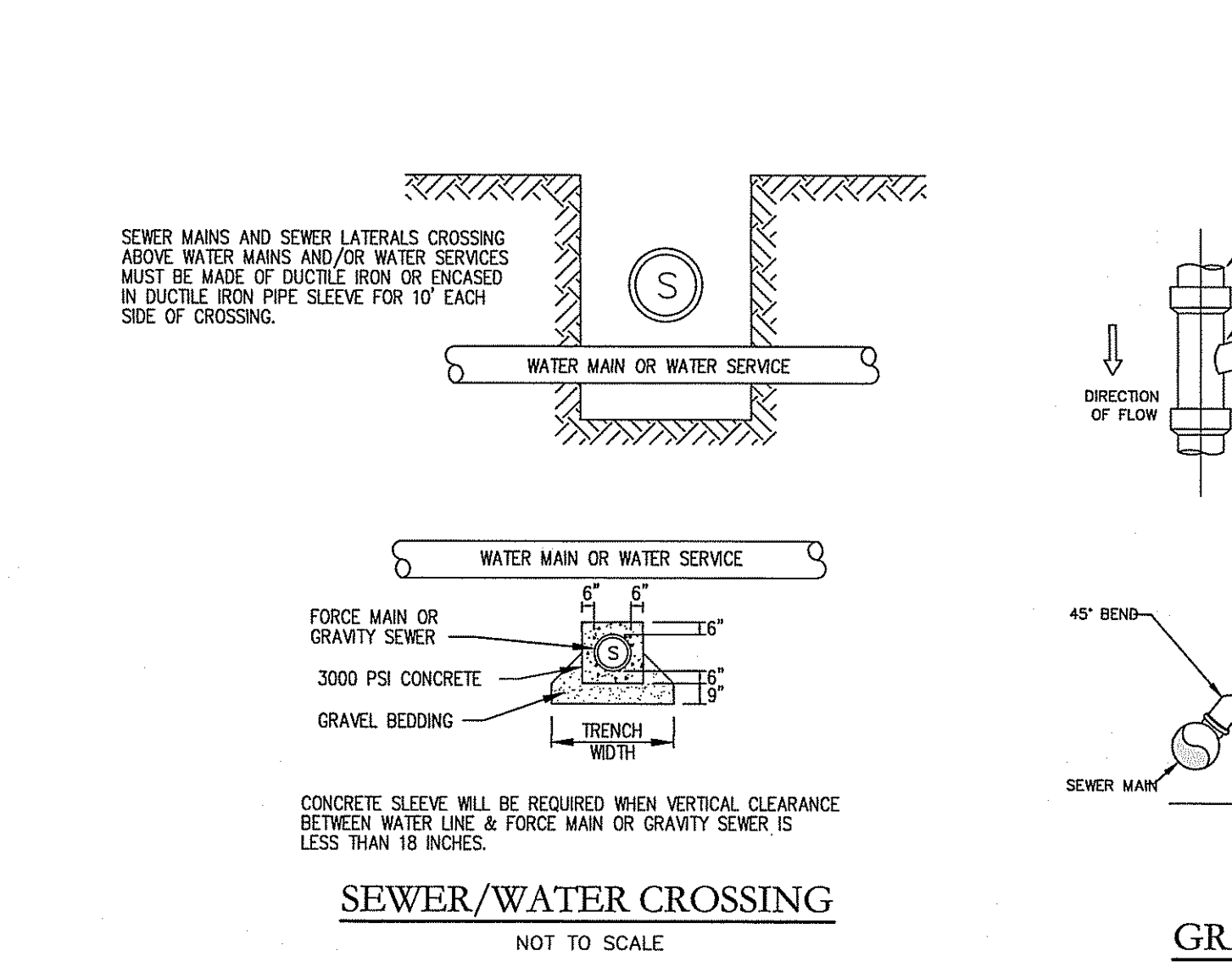
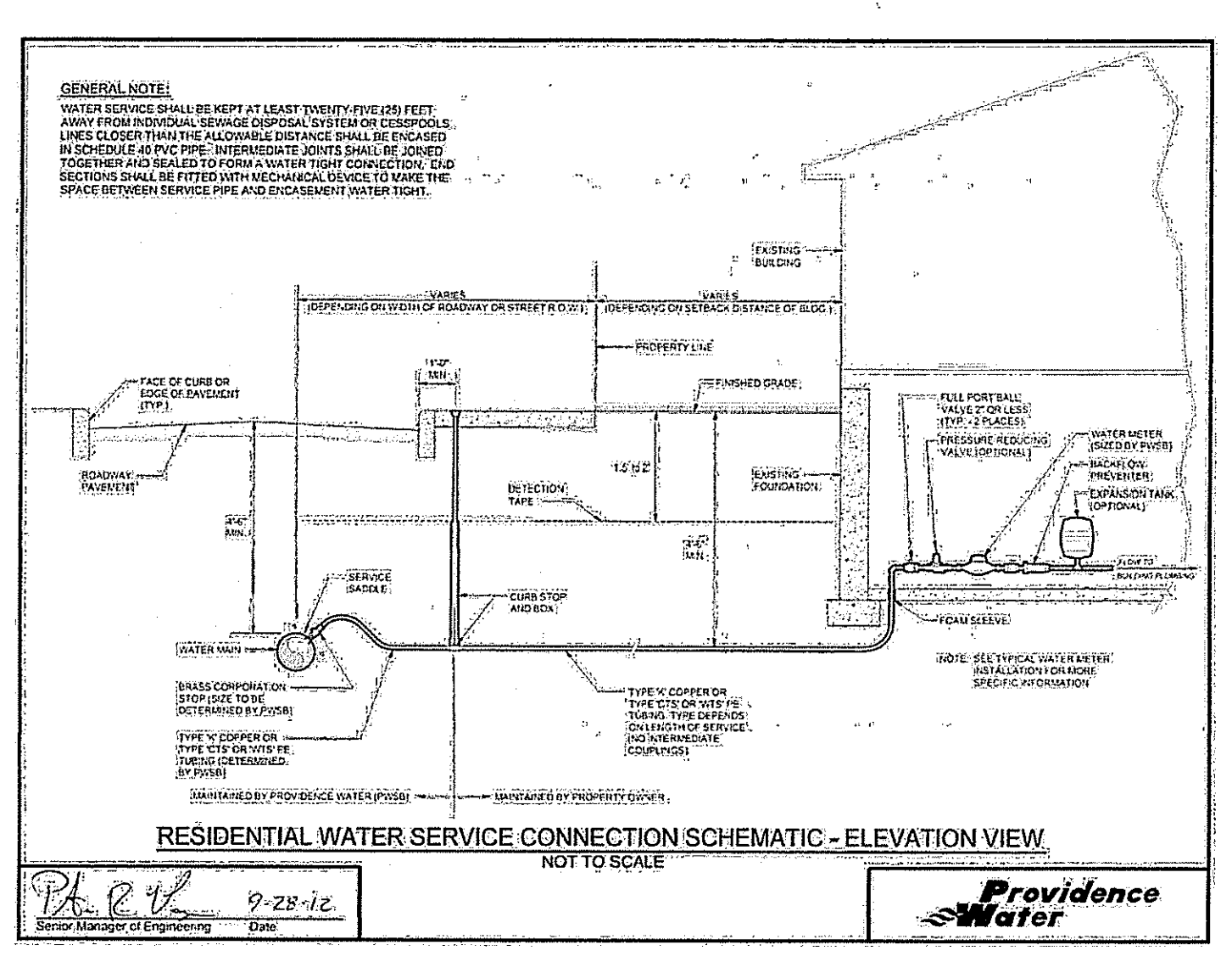
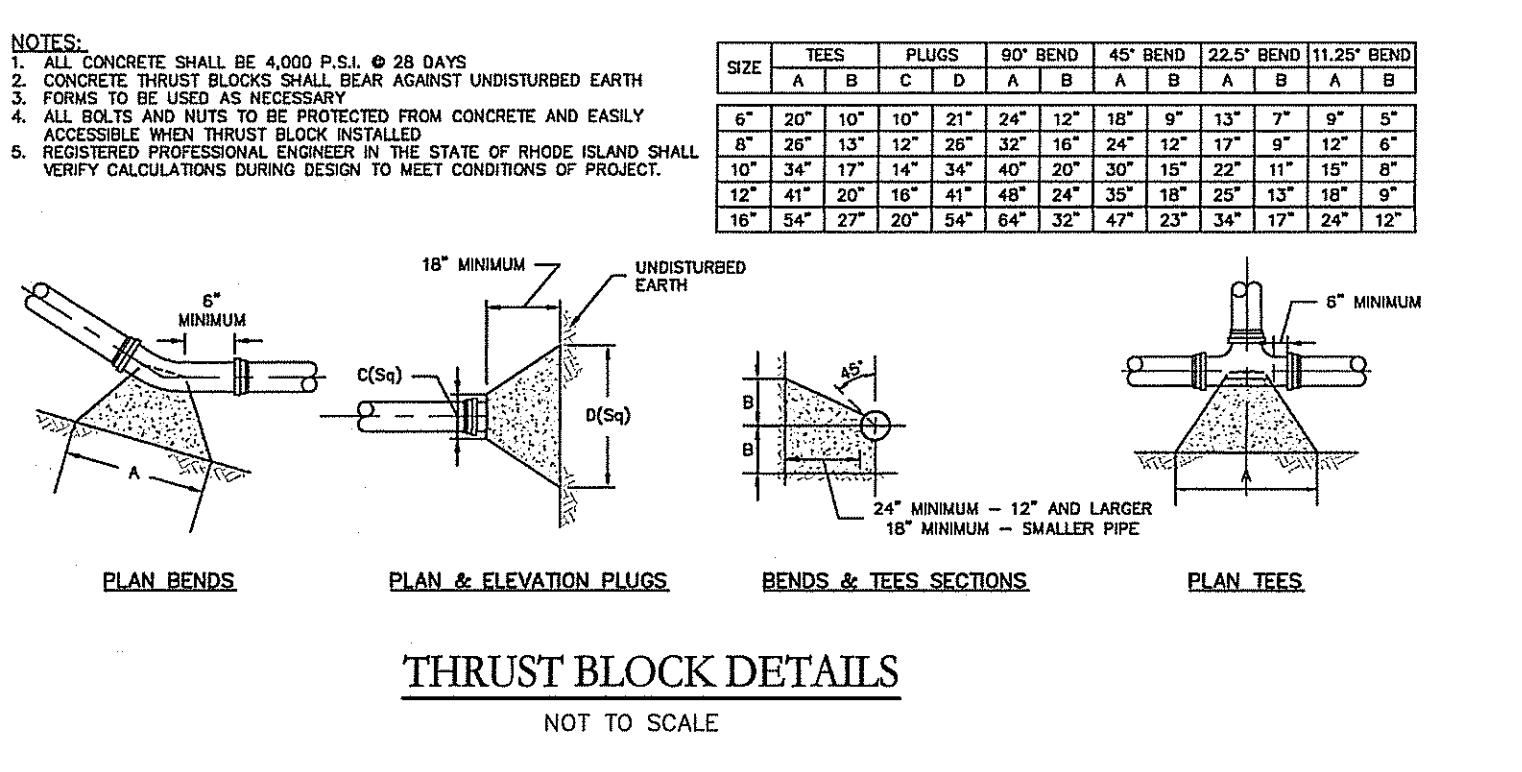
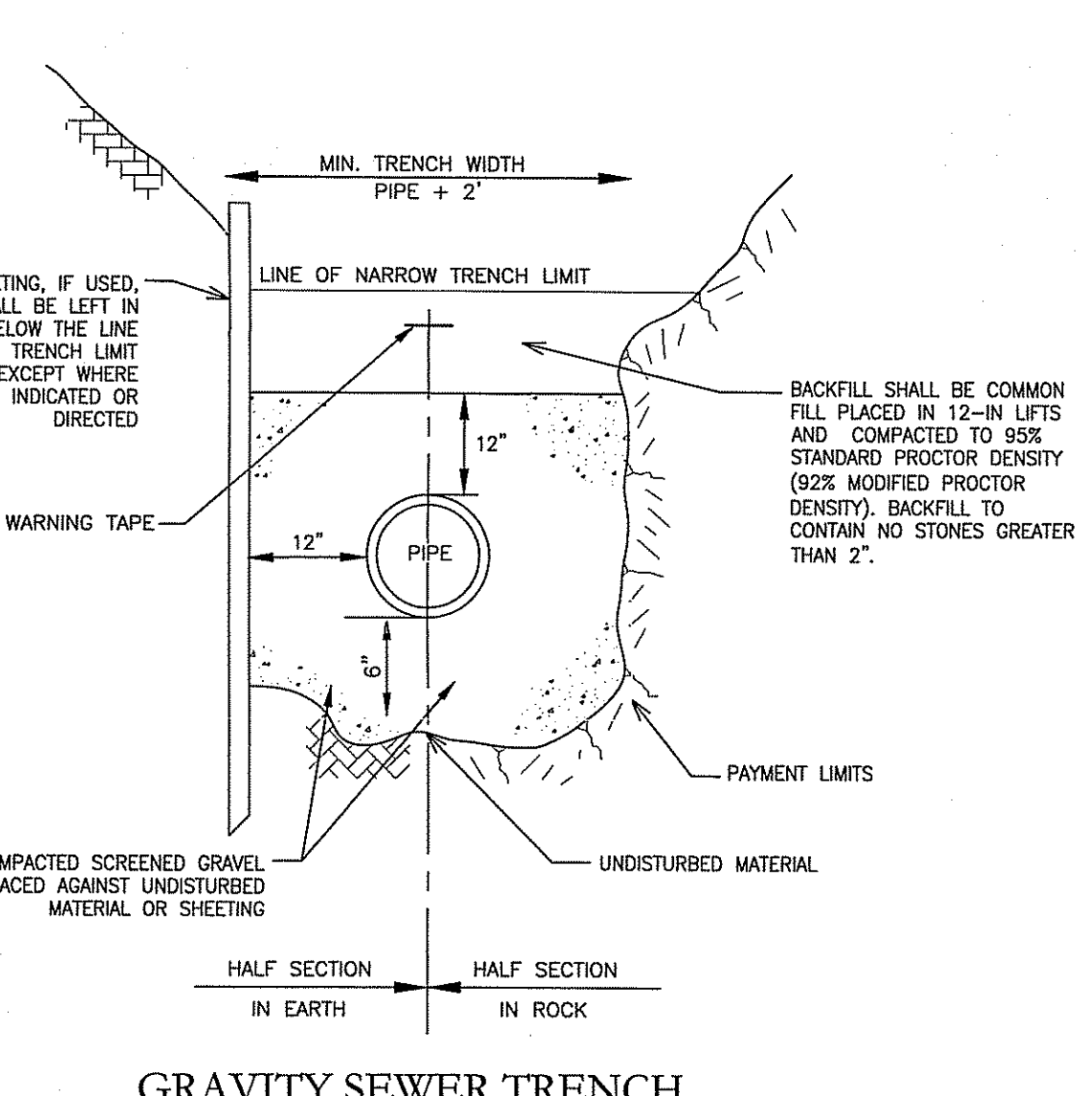
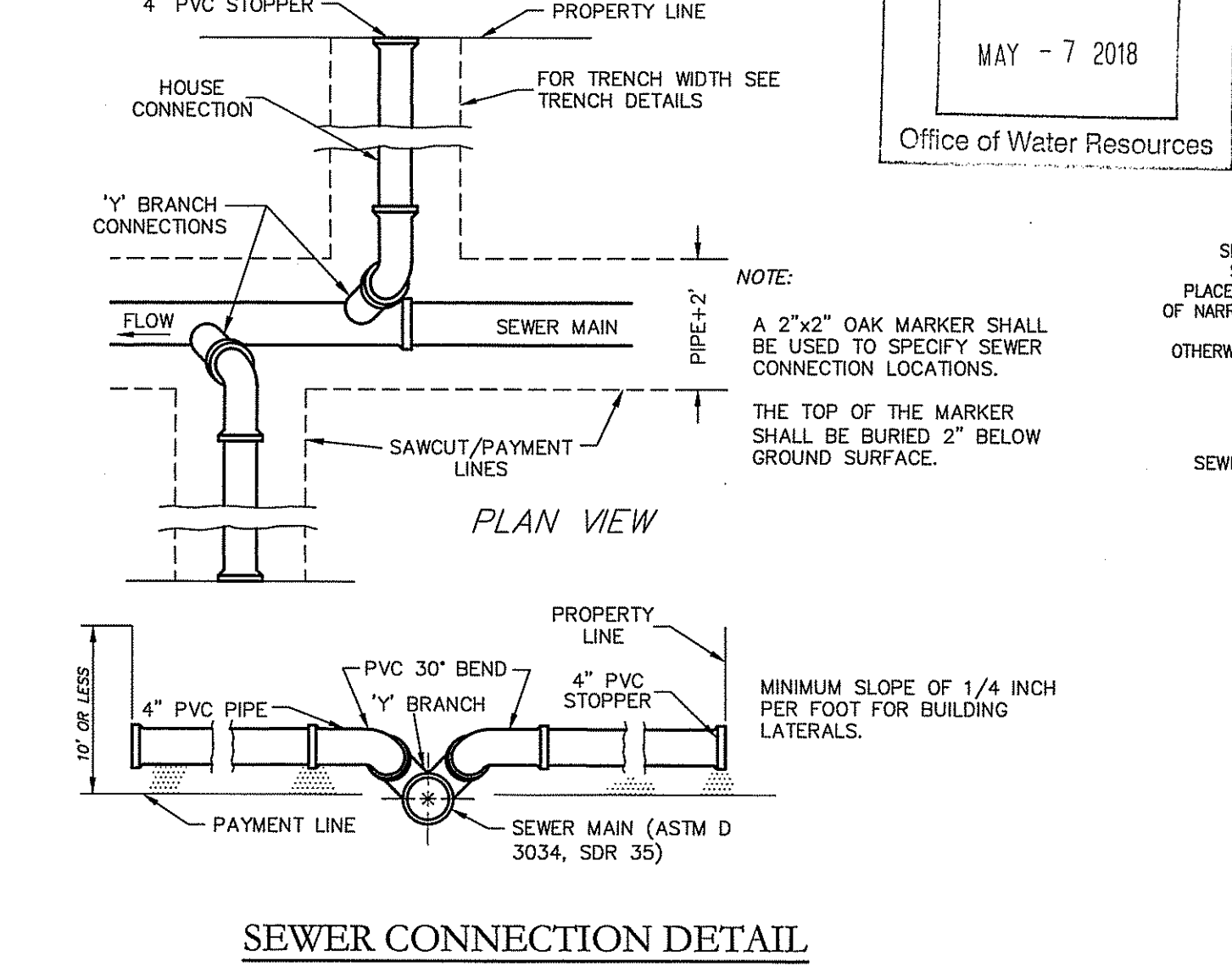
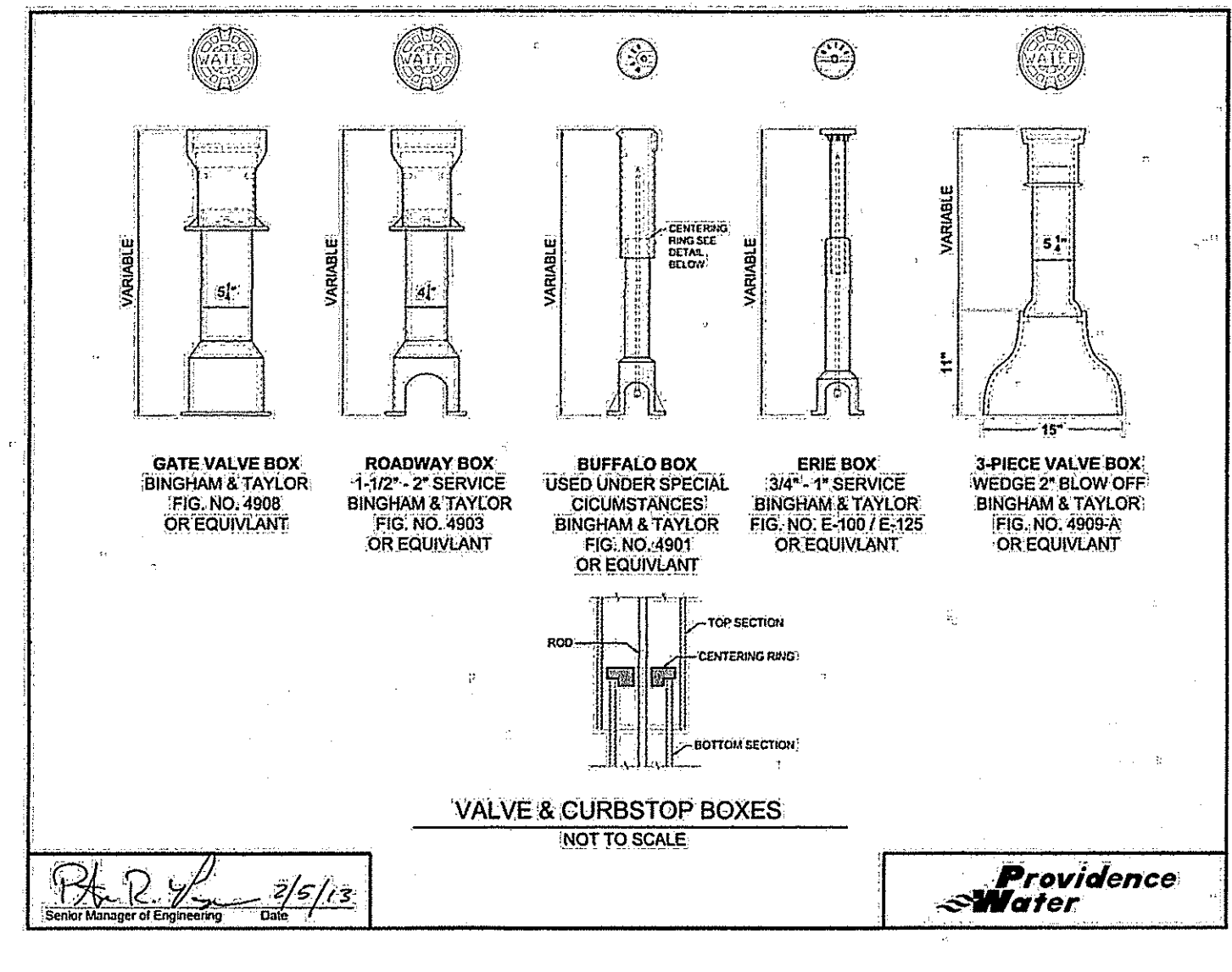
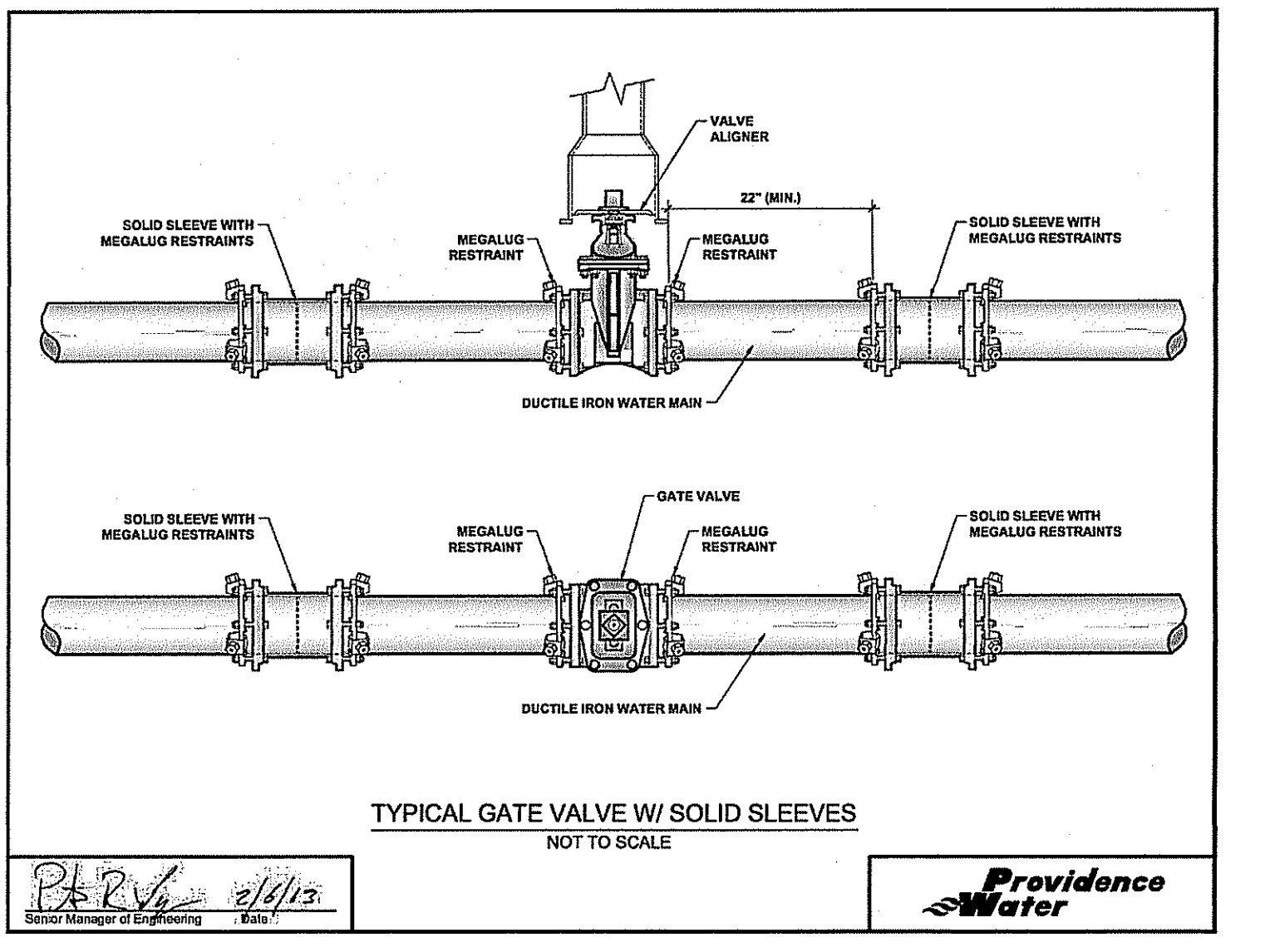
DATE: SEPTEMBER 2017
 SCALE: AS NOTED
 DRAWN BY: C.S.R.
 CHECKED BY: N.J.P.

DRAWING NO. **C-14**
 SHEET 14 OF 15



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WELFARE DIVISION
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 23, 2018 FILE # 17-0374
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Schneck



Advanced Civil Design, Inc.
SITE/CIVIL ENGINEERS

88 PEEPTOAD ROAD
SOUTHATE, RI 02857
PH: (401) 644-8656

NO.	DATE	REVISION
2	MAY-2018	RIDEM COMMENTS
1	FEB-2018	LAYOUT & DRAINAGE, RIDEM COMMENTS

PROJECT TITLE:
Hopkins Pond
A.P. 44/4 LOT 28
Central Avenue
Johnston, RI

PREPARED FOR:
Drywater, LLC
51 Sockanissett Cross Road
Cranston, RI 02920

DRAWING TITLE:
Details - Sewer & Water

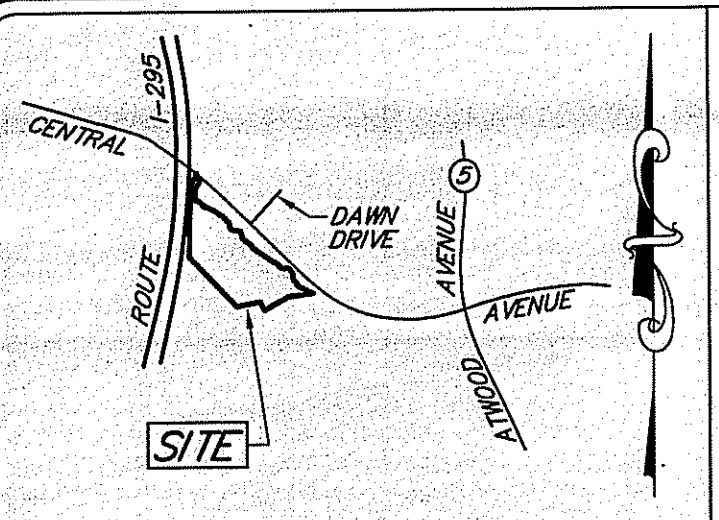
DATE: SEPTEMBER 2017
SCALE: AS NOTED

DRAWN BY: C.S.R.
CHECKED BY: N.J.P.

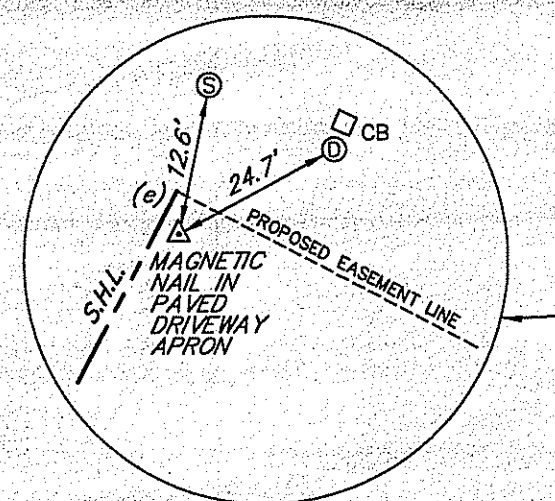
NICHOLAS J. PIAMPIANO
No. 6512
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

C-15

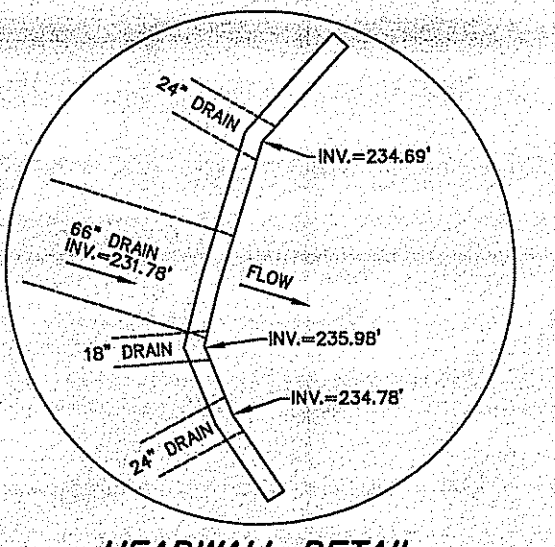
SHEET 15 OF 15



LOCATION PLAN SCALE: 1"=2000'



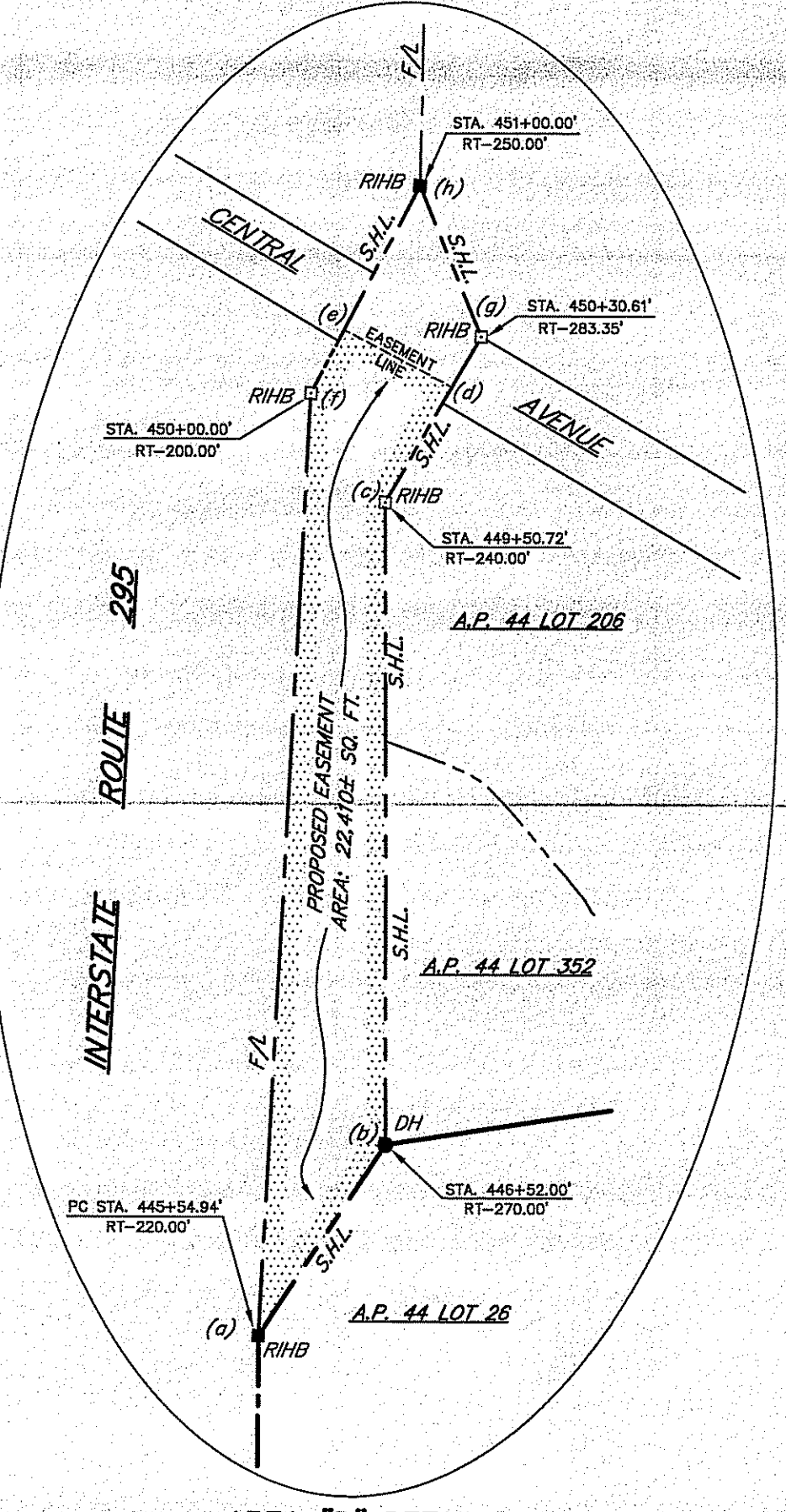
BENCHMARK DETAIL NOT TO SCALE



HEADWALL DETAIL NOT TO SCALE

PROPOSED EASEMENT AREA LINE TABLE

STATE HIGHWAY LINE		
LINE	BEARING	DISTANCE
a-b	N34°01'15"E	113.79'
b-c	N00°03'34"E	316.65'
c-d	N30°18'46"E	66.09'
d-g	N30°18'46"E	28.82'
g-h	N27°31'19"W	80.64'
h-e	S27°52'53"W	80.61'
e-f	S27°52'53"W	35.59'
STATE FREEWAY LINE		
f-o	S03°19'24"W	465.63'
PROPOSED EASEMENT LINE		
a-e	N62°12'31"W	60.64'



AREA "D" DETAIL NOT TO SCALE

- NOTES**
- THE PURPOSE OF THIS PLAN IS TO REPORT THE RESULTS OF (1) A COMPREHENSIVE BOUNDARY SURVEY, (2) A TOPOGRAPHIC SURVEY AND (3) A COMPILATION OF THIRD-PARTY TOPOGRAPHIC DATA, AS FOLLOWS:
 - A COMPREHENSIVE BOUNDARY SURVEY WAS CONDUCTED OF AREA "D" AS DEPICTED ON STATE HIGHWAY PLAT NO. 1443.
 - A COMPREHENSIVE BOUNDARY SURVEY WAS CONDUCTED OF ASSESSOR'S PLAT 44 LOT 26.
 - A GROUND BASED TOPOGRAPHIC SURVEY USING CONVENTIONAL INSTRUMENTS WAS CONDUCTED OF AREA "D", AND TOPOGRAPHY FOR ASSESSOR'S PLAT 44 LOT 26 WAS COMPILED FROM R.I.G.I.S. (2001 LIDAR 2 FOOT CONTOUR LINES).
 - THE HORIZONTAL DATUM IS THE RHODE ISLAND COORDINATE SYSTEM, THE VERTICAL DATUM IS NAVD88. BOTH WERE OBTAINED USING SURVEY GRADE GLOBAL POSITIONING SATELLITE TECHNOLOGY.
 - FOR REFERENCE SEE STATE HIGHWAY PLAT 1443, SHEET 5 OF 12, AS ANNOTATED BY THE SURVEY SECTION OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION. AREA "D" WAS RETAINED BY THE STATE OF RHODE ISLAND AS A "PUBLIC HIGHWAY WITHIN THE RIGHT OF WAY".

THE CONDEMNATION DOCUMENT (DATED MAY 20, 1969) RECORDED WITH PLAT NO. 1443 IN THE TOWN OF JOHNSTON LAND EVIDENCE RECORDS OBLIGATED THE STATE OF RHODE ISLAND TO PROVIDE ACCESS TO ALL PRIVATE LANDS ADJUTING "STATE HIGHWAY LINES". NO RIGHTS OF ACCESS TO AND FROM PRIVATE LANDS ARE PROVIDED ACROSS "STATE FREEWAY LINES".

DRYWATER, LLC IS ENGAGED IN A PROCESS WITH THE STATE OF RHODE ISLAND TO OBTAIN CERTAIN EASEMENT RIGHTS OVER A PORTION OF AREA "D". THE EASEMENT IS TO EXTEND BETWEEN ASSESSOR'S PLAT 44 LOT 26 AND THE EDGE OF THE PAVEMENT ON CENTRAL AVENUE.
 - FLOOD HAZARD ZONE AE EXTENDS SOUTHERLY FROM DRY BROOK AND ITS INCLUDED PONDS AS SHOWN ON F.I.R.M. MAP NO. 4400702028N DATED OCTOBER 2, 2015. THE BASE FLOOD ELEVATION VARIES WITH THE DOWNSTREAM FLOW OF THE BROOK. FLOOD ZONE LINES ARE TAKEN FROM THE F.I.R.M., AND HAVE NOT BEEN ADJUSTED TO ACCOUNT FOR ACTUAL BASE FLOOD ELEVATIONS.
 - THE DEPICTION OF FRESHWATER WETLAND RESOURCE AREAS IS BASED ON A REPORT PREPARED BY NATURAL RESOURCE SERVICES, INC. OF HARRISVILLE, RHODE ISLAND DATED AUGUST 22, 2017. PERIMETER AND RIVERBANK WETLANDS ARE AS OUTLINED IN THE REPORT. WETLAND DELINEATION FLAGS, DRY BROOK AND ITS INCLUDED PONDS WERE LOCATED BY ON-THE-GROUND SURVEYS.
 - THE BOUNDARY LINES OF ASSESSOR'S PLAT 44 LOT 352 ARE BASED ON A SURVEY DESCRIPTION OF THE PROPERTY FOUND IN DEED BOOK 28 AT PAGE 90 (ANNA P. IRONS TO FELICE MILANE, 1916). THE LOCATION OF THE LINES WAS CALCULATED BASED ON THE COINCIDENCE OF ITS LINES AND CORNERS WITH THE PROPERTY CONFIGURATION PRIOR TO THE CONSTRUCTION OF ROUTE I-295 SHOWN ON STATE HIGHWAY PLAT NO. 1443.
 - THE CURRENT DEED TO DRYWATER, LLC STATES THAT THE PROPERTY IS SUBJECT TO TWO POWER LINE EASEMENTS. THE FIRST (DEED BOOK 78 PAGE 466) IS IN FACT LOCATED WESTERLY OF ROUTE I-295, AND IS THEREFORE NOT APPLICABLE. THE SECOND EASEMENT (DEED BOOK 25 PAGE 401, 1916) IS BELIEVED BY THE SURVEYOR TO REFER TO THE ORIGINAL GRANT TO THE RHODE ISLAND POWER TRANSMISSION COMPANY WHICH LATER BECAME THE (MAPRED) EASEMENT TO THE WASHINGTON ELECTRIC COMPANY STATED IN THE FIRST DEED ABOVE. AN OPINION BY A TITLE ATTORNEY REGARDING THESE EASEMENTS IS RECOMMENDED. NO EVIDENCE OF A POWER LINE WAS OBSERVED ON THE PROPERTY.
 - A "CLOSING LINE" IS A RANDOMLY LOCATED SURVEY LINE, INCLUDED FOR THE PURPOSES OF MATHEMATICAL CLOSURE ONLY, AND IS NOT TO BE CONSTRUED AS A BOUNDARY LINE.

- PLAN REFERENCES**
- RHODE ISLAND STATE HIGHWAY PLAT 1443, SHEET 5 OF 12.
 - "TOPOGRAPHIC PLAN JOHNSTON, R.I. . . . PREPARED FOR RICHARD CARDARELLI SCALE: 1"=50' . . . [REVISION] NO. 1 3/99 GROUND WATER TESTING" BY M. KELTER SURVEYING, INC. PLAN PROVIDED BY CLIENT. THIS PLAN IS THE SOURCE OF THE TEST HOLE LOCATIONS SHOWN HEREON.
 - "SURVEY PLAN OF ASSESSOR'S PLAT 44--A LOT 18 SITUATED IN JOHNSTON, R.I. JOB NO. 2550 DRAWING NO. 3494 SCALE 1"=100' DATE DEC. 9, 1989" BY GAROFALO & ASSOCIATES, INC. PLAN PROVIDED BY CLIENT.

LEGEND

A.P.	ASSESSOR'S PLAT
N/F	NOW OR FORMERLY
S.H.L.	STATE HIGHWAY LINE
F/L	STATE FREEWAY LINE
SQ. FT.	SQUARE FEET
■ RHIB	RHODE ISLAND HIGHWAY BOUND FOUND
□ RHIB	RHODE ISLAND HIGHWAY BOUND NOT FOUND
● DH	DRILL HOLE FOUND
○ IR	IRON ROD WITH SURVEY CAP SET
○	CHAIN LINK FENCE
---	STATE FREEWAY LINE
---	STATE HIGHWAY LINE
○	SEWER MANHOLE
○	DRAIN MANHOLE
○	ELECTRIC MANHOLE
□ CB	CATCH BASIN
○	STONE WALL
---	280 SURVEY GENERATED CONTOUR
---	280 LIDAR GENERATED CONTOUR
○	SOIL EVALUATION TEST HOLE
▲ A20	WETLAND DELINEATION FLAG

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 23 2018 FILE # 17-0274
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wenczek

SCITUATE SURVEYS, INC.
410 TIOGUE AVENUE
COVENTRY, RHODE ISLAND 02816
401-821-8101
LAND SURVEYING/MAPPING/SITE PLANNING

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:

CLASS I: BOUNDARY SURVEY
MEASUREMENT ACCURACY: CLASS I
METHOD: METRIC CONTROL STRANDAUM P-1 PERMANENT SURVEY MONUMENT P-4
DATE: FEBRUARY 22, 2018

CLASS II: METRIC CONTROL STRANDAUM P-1 PERMANENT SURVEY MONUMENT P-4
MEASUREMENT ACCURACY: CLASS II
METHOD: METRIC CONTROL STRANDAUM P-1 PERMANENT SURVEY MONUMENT P-4
DATE: FEBRUARY 22, 2018

CLASS III: BOUNDARY SURVEY
MEASUREMENT ACCURACY: CLASS III
METHOD: METRIC CONTROL STRANDAUM P-1 PERMANENT SURVEY MONUMENT P-4
DATE: FEBRUARY 22, 2018

BY: *Angelo M. Rainaldi*
PROFESSIONAL LAND SURVEYOR
No. 1782

ANGELO M. RAINALDI
PROFESSIONAL LAND SURVEYOR
No. 1782

COMPREHENSIVE BOUNDARY AND EXISTING CONDITIONS SURVEY
OF LAND OF
DRYWATER, LLC
ASSESSOR'S PLAT 44 LOT 26
SOUTHERLY OF CENTRAL AVENUE
JOHNSTON, RHODE ISLAND
DATE: FEBRUARY 22, 2018 REVISION:
SCALE: 1"=80'