

LOCUS MAP
SCALE: 1"=1,800'±

GENERAL NOTES:

- PROPERTY LINE AND TOPOGRAPHY 2' CONTOUR LINES PREPARED BY DARVEAU AND ASSOCIATES, INC. REFERENCE IS MADE TO 'PROPOSED SITE PLAN, PREPARED FOR VALENTINE & HUTCHINSON, JUNE 24, 2010'. PROPERTY SURVEY IS CLASS I. TOPOGRAPHY CONTOURS IS CLASS 3. DATUM IS DESCRIBED BELOW UNDER THE BENCHMARK NOTE.
- THE WETLAND AREAS ON THE PARCEL WERE DELINEATED BY NATURAL RESOURCE SERVICES, INC. ON FEBRUARY 10, 2010.
- THE PROJECT AREA IS GRAPHICALLY PLOTTED TO BE IN FLOOD ZONE X AS SHOWN ON NATIONAL FLOOD INSURANCE RATE MAP 44050C0176H, EFFECTIVE DATE APRIL 5, 2010, FOR THE TOWN OF JAMESTOWN, RHODE ISLAND.
- BENCH MARK #1 FOR THE SITE IS THE TOP OF THE SOUTHERNMOST FIRE HYDRANT LOCATED ALONG HOWLAND AVENUE BY THE JAMESTOWN WATER TOWERS AS SHOWN ON PLAN ENTITLED 'SITE PLAN OF LAND OWNED BY THE TOWN OF JAMESTOWN, PLAT 9, LOT 152, HOWLAND AVENUE, JAMESTOWN, RHODE ISLAND, SCALE: 1"=20', DATED: MARCH 9, 2005" BY RC COURNOYER ENTERPRISES, INC. THE ELEVATION IS 102.07. THE DATUM IS NGVD 1929.

SOIL EROSION CONTROL NARRATIVE:

- PROJECT DESCRIPTION:** THE PROJECT CONSISTS OF IMPROVING AN EXISTING GRAVEL DRIVEWAY TO MEET THE MINIMUM FIRE CODE SAFETY REQUIREMENTS WHICH INCLUDE PROVIDING A MINIMUM DRIVEWAY WIDTH OF 12 FEET, CLEARING ADJACENT TO THE DRIVEWAY TO PROVIDE A 20 FOOT CLEAR ACCESS WAY AND REPLACING TWO 4 INCH CULVERTS WITH A STANDARD 12 INCH CULVERT.
- PROPOSED CULVERT:** TWO EXISTING 4 INCH CULVERTS ARE PROPOSED TO BE REPLACED WITH ONE 12 INCH DIAMETER CULVERT. PRE-PROJECT RUNOFF RATES AND VOLUMES WILL APPROXIMATE POST-RUNOFF RUNOFF RATES AND VOLUMES BY INSTALLING AN INLET CONTROL STRUCTURE ON THE INLET END OF THE PROPOSED 12 INCH CULVERT. PRE-PROJECT WATER LEVELS IN THE FRESHWATER WETLAND WILL APPROXIMATE POST-PROJECT WATER LEVELS BY INSTALLING AN INLET CONTROL STRUCTURE ON THE INLET END OF THE PROPOSED 12 INCH CULVERT.
- EMERGENCY PHONE NUMBERS:** CONTACT MS. VICTORIA VALENTINE AT 423-3938 FOR IMMEDIATE ATTENTION.
- SOIL EROSION AND SEDIMENT CONTROL MEASURES:** INSTALL SILT FENCE OR HAY BALES WHERE SHOWN ON PLAN AND AT ALL AREAS SUBJECT TO SOIL EROSION. ALL SOIL STOCK PILE AREAS SHALL BE PROTECTED FROM SOIL EROSION AS SHOWN ON THE DETAIL. INSTALL A CONSTRUCTION ACCESS AT THE ENTRANCE INTO SUBJECT PROPERTY. STABILIZE ALL DISTURBED AREAS AS SOON AS POSSIBLE WITH GRASS SEED OR A 2 INCH LAYER OF WOOD MULCH.

SEQUENCE AND STAGING OF LAND DISTURBING ACTIVITIES:

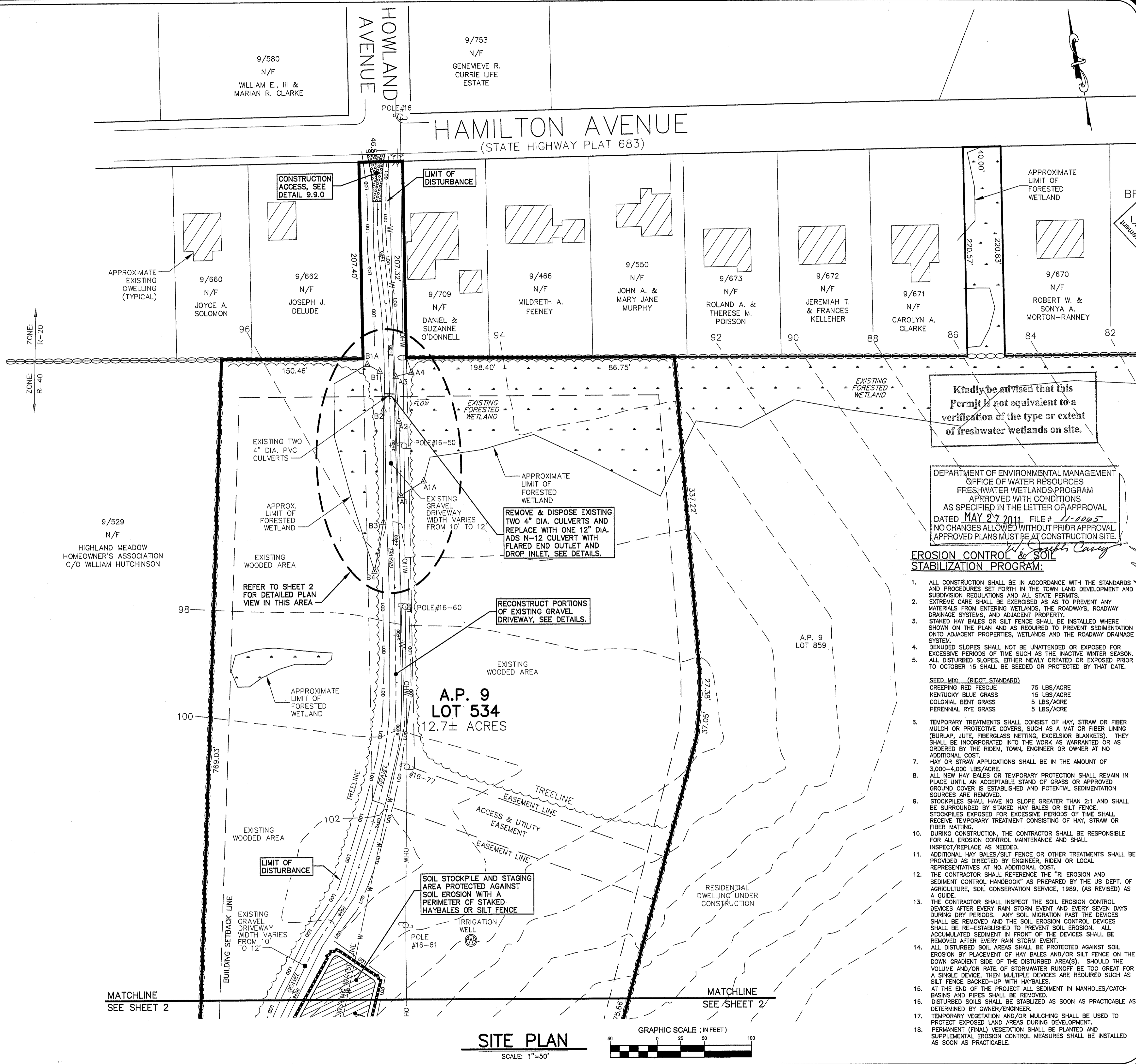
- PLACE PERIMETER SEDIMENTATION CONTROL DEVICES (HAYBALE OR SILT FENCE) AS SHOWN ON THE PLANS. IN NO CASE IS THE LIMIT OF WORK TO EXTEND BEYOND THE SEDIMENTATION CONTROL DEVICES.
- CONSTRUCT CONSTRUCTION ENTRANCE DEVICE 9.9.0.
- INSTALL HAYBALES AND SILT FENCE AROUND PROPOSED SOIL STOCKPILE AREA.
- BEGIN CONSTRUCTION OF GRAVEL ROAD IMPROVEMENTS.
- REMOVE EXISTING CULVERTS.
- CONSTRUCT PROPOSED CULVERT.
- ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED WITH GRASS OR MULCHED WITH A 2 INCH LAYER OF MULCH.
- REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES.

ABBREVIATIONS

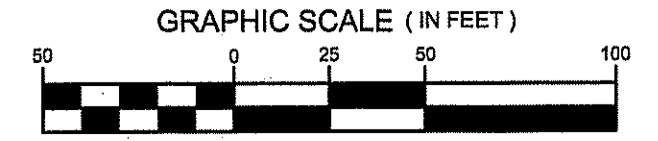
A.P.	ASSESSORS PLAT
BT.	BITUMINOUS CONCRETE
CB	CONCRETE BOUND
CONC.	CONCRETE
DH	DRILL HOLE
DIA.	DIAMETER
ELEV.	ELEVATION
E.O.P.	EDGE OF PAVEMENT
EXIST.	EXISTING
FND	FOUND
GAL.	GALLON
GR.	GRANITE BOUND
HYD.	HYDRANT
INV.	INVERT
MIN.	MINIMUM
N/F	NOW OR FORMERLY
PROP.	PROPOSED
S	SLOPE
S.F.	SQUARE FEET
S.T.	TEST HOLE
TH	TYPICAL
UP	UTILITY POLE
9/660	A.P. 9 LOT 660
U.P.	UTILITY POLE

LINETYPE LEGEND

SUBJECT PROPERTY LINE	---
EDGE OF PAVEMENT	---
EXIST. OVERHEAD WIRE	---
EXIST. WATER LINE	---
EXIST. SEWER LINE	---
PROPOSED SILT FENCE AND LIMIT OF DISTURBANCE	---
EXISTING ELEVATION CONTOUR	---
PROPOSED ELEVATION CONTOUR	---
WETLAND EDGE	---
BUILDING SETBACK LINE	---
STAKED HAYBALES	---



SITE PLAN
SCALE: 1"=50'



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 27 2011 FILE # 11-0065
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

EROSION CONTROL & SOIL STABILIZATION PROGRAM:

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS AND PROCEDURES SET FORTH IN THE TOWN LAND DEVELOPMENT AND SUBDIVISION REGULATIONS AND ALL STATE PERMITS.
- EXTREME CARE SHALL BE EXERCISED AS TO PREVENT ANY MATERIALS FROM ENTERING WETLANDS, THE ROADWAYS, ROADWAY DRAINAGE SYSTEMS, AND ADJACENT PROPERTY.
- STAKED HAY BALES OR SILT FENCE SHALL BE INSTALLED WHERE SHOWN ON THE PLAN AND AS REQUIRED TO PREVENT SEDIMENTATION ONTO ADJACENT PROPERTIES, WETLANDS AND THE ROADWAY DRAINAGE SYSTEM.
- DENUDED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON. ALL DISTURBED SLOPES, EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15 SHALL BE SEEDED OR PROTECTED BY THAT DATE.
- SEED MIX: (RIDOT STANDARD)
CREEPING RED FESCUE 75 LBS/ACRE
KENTUCKY BLUE GRASS 15 LBS/ACRE
COLONIAL BENT GRASS 5 LBS/ACRE
PERENNIAL RYE GRASS 5 LBS/ACRE
- TEMPORARY TREATMENTS SHALL CONSIST OF HAY, STRAW OR FIBER MULCH OR PROTECTIVE COVERS, SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS). THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE RIDEM, TOWN, ENGINEER OR OWNER AT NO ADDITIONAL COST.
- HAY OR STRAW APPLICATIONS SHALL BE IN THE AMOUNT OF 3,000-4,000 LBS/ACRE.
- ALL NEW HAY BALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED AND POTENTIAL SEDIMENTATION SOURCES ARE REMOVED.
- STOCKPILES SHALL HAVE NO SLOPE GREATER THAN 2:1 AND SHALL BE SURROUNDED BY STAKED HAY BALES OR SILT FENCE. STOCKPILES EXPOSED FOR EXCESSIVE PERIODS OF TIME SHALL RECEIVE TEMPORARY TREATMENT CONSISTING OF HAY, STRAW OR FIBER MATTING.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MAINTENANCE AND SHALL INSPECT/REPLACE AS NEEDED.
- ADDITIONAL HAY BALES/SILT FENCE OR OTHER TREATMENTS SHALL BE PROVIDED AS DIRECTED BY ENGINEER, RIDEM OR LOCAL REPRESENTATIVES AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL REFERENCE THE "RI EROSION AND SEDIMENT CONTROL HANDBOOK" AS PREPARED BY THE US DEPT. OF AGRICULTURE, SOIL CONSERVATION SERVICE, 1989, (AS REVISED) AS A GUIDE.
- THE CONTRACTOR SHALL INSPECT THE SOIL EROSION CONTROL DEVICES AFTER EVERY RAIN STORM EVENT AND EVERY SEVEN DAYS DURING DRY PERIODS. ANY SOIL MIGRATION PAST THE DEVICES SHALL BE REMOVED AND THE SOIL EROSION CONTROL DEVICES SHALL BE RE-ESTABLISHED TO PREVENT SOIL EROSION. ALL ACCUMULATED SEDIMENT IN FRONT OF THE DEVICES SHALL BE REMOVED AFTER EVERY RAIN STORM EVENT.
- ALL DISTURBED SOIL AREAS SHALL BE PROTECTED AGAINST SOIL EROSION BY PLACEMENT OF HAY BALES AND/OR SILT FENCE ON THE DOWN GRADIENT SIDE OF THE DISTURBED AREA(S). SHOULD THE VOLUME AND/OR RATE OF STORMWATER RUNOFF BE TOO GREAT FOR A SINGLE DEVICE, THEN MULTIPLE DEVICES ARE REQUIRED SUCH AS SILT FENCE BACKED-UP WITH HAYBALES.
- AT THE END OF THE PROJECT ALL SEDIMENT IN MANHOLES/CATCH BASINS AND PIPES SHALL BE REMOVED.
- DISTURBED SOILS SHALL BE STABILIZED AS SOON AS PRACTICABLE AS DETERMINED BY OWNER/ENGINEER.
- TEMPORARY VEGETATION AND/OR MULCHING SHALL BE USED TO PROTECT EXPOSED LAND AREAS DURING DEVELOPMENT.
- PERMANENT (FINAL) VEGETATION SHALL BE PLANTED AND SUPPLEMENTAL EROSION CONTROL MEASURES SHALL BE INSTALLED AS SOON AS PRACTICABLE.

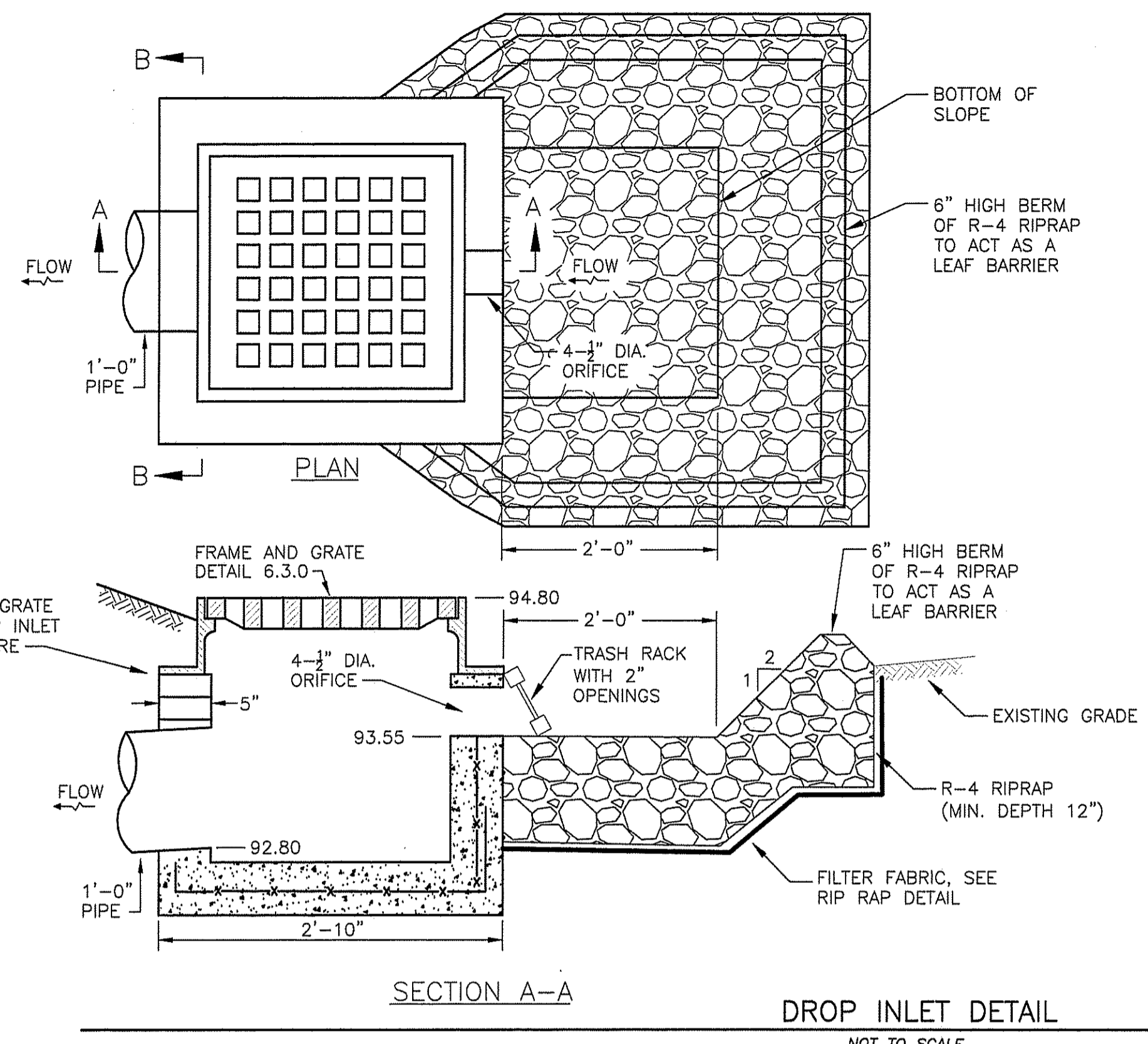
DRIVEWAY SAFETY IMPROVEMENTS
APR 27 2011
83 HAMILTON AVENUE
JAMESTOWN, RHODE ISLAND
PROPERTY OWNER & APPLICANT:
Victoria A. Valentine
3 MEADOW LANE
JAMESTOWN, RI 02835

Checked By: T.J.B. Drawn By: T.J.B.
AS SHOWN REVISIONS
DATE: APR. 2011
NO. BY DATE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
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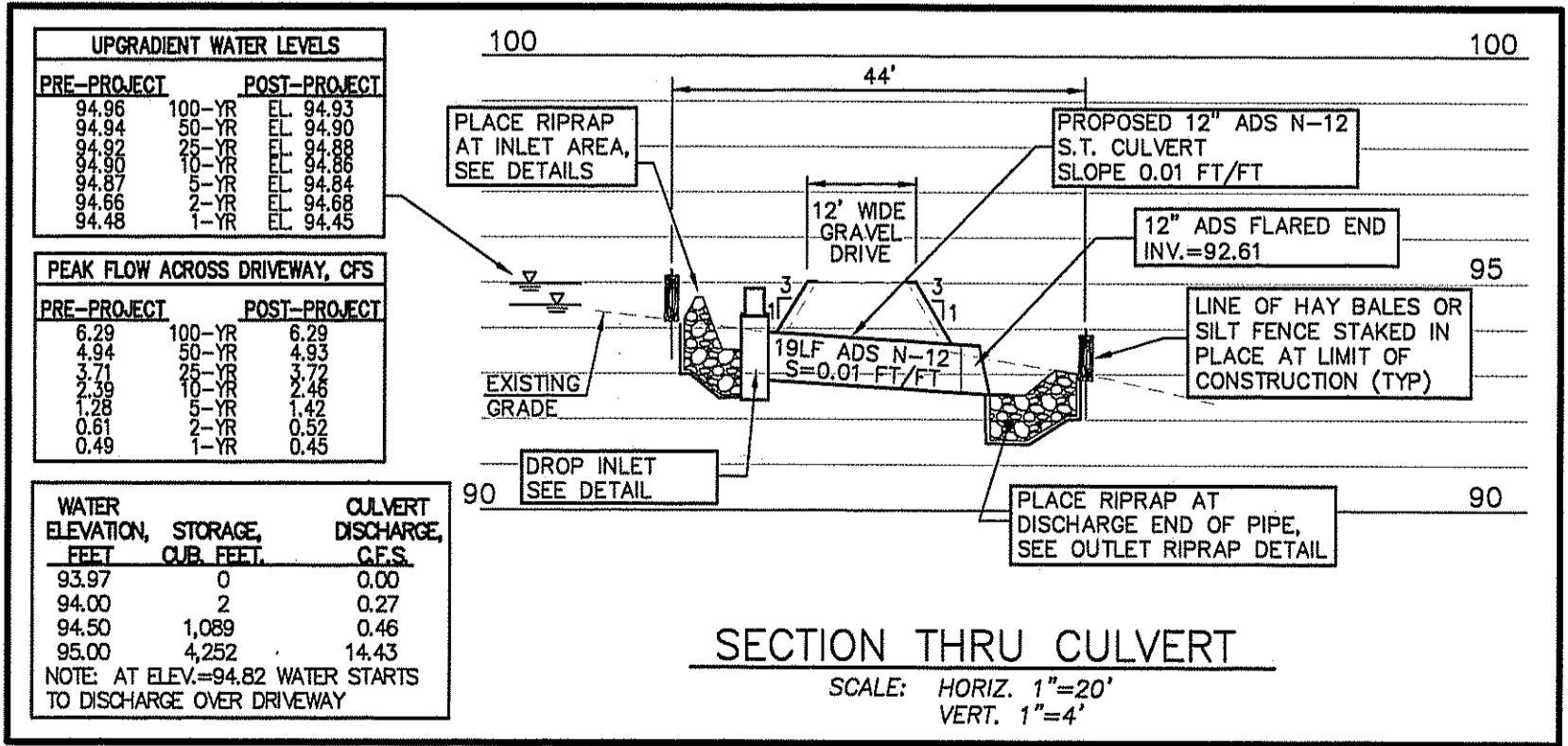
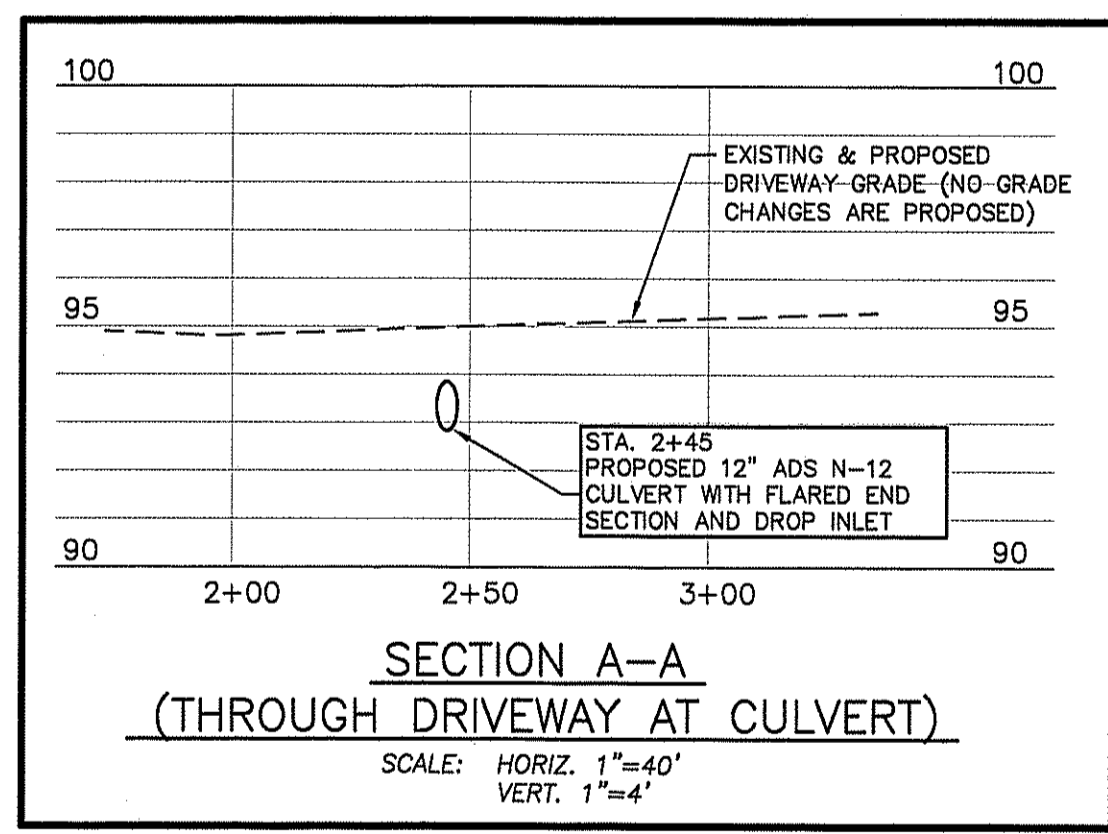
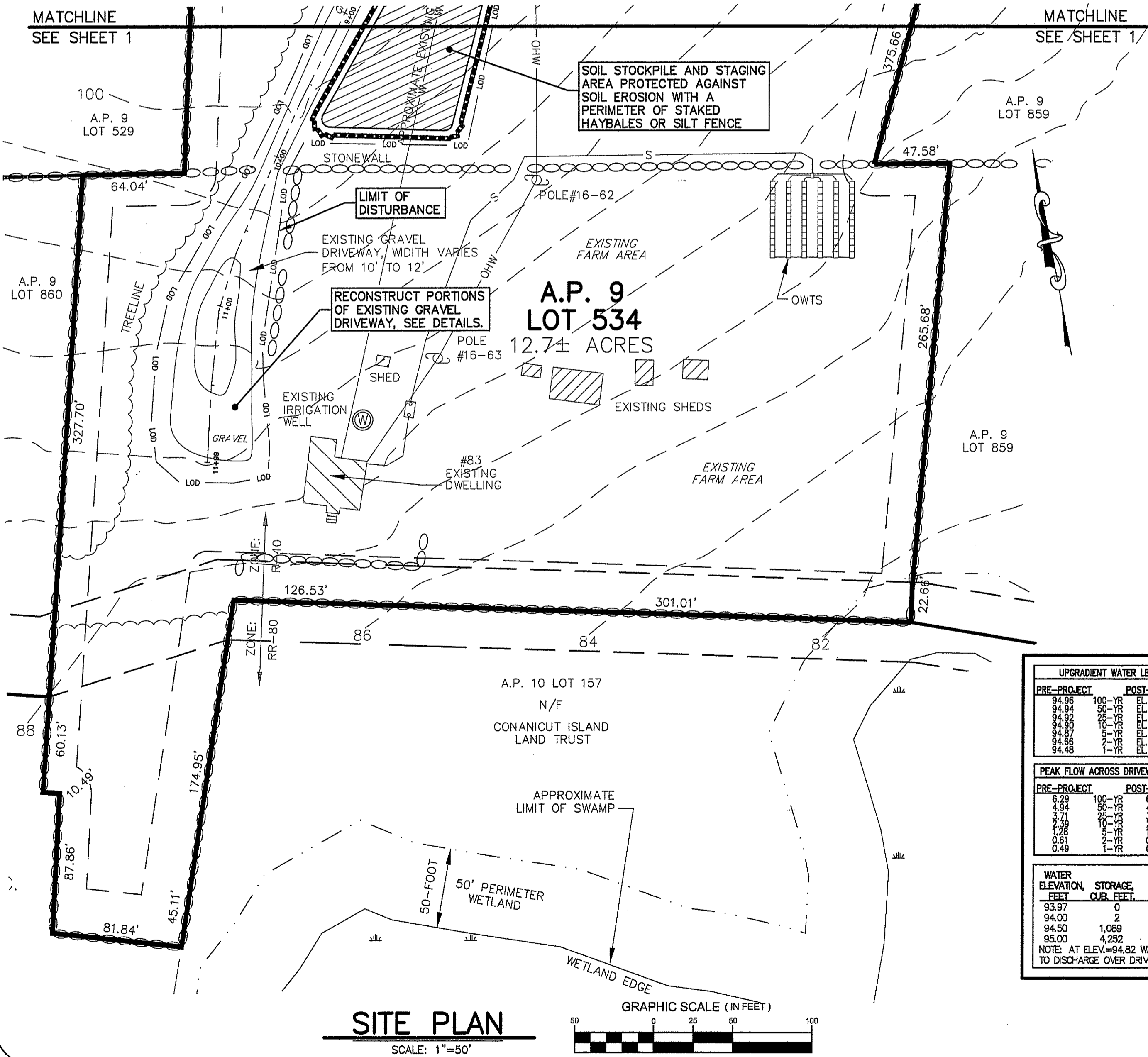
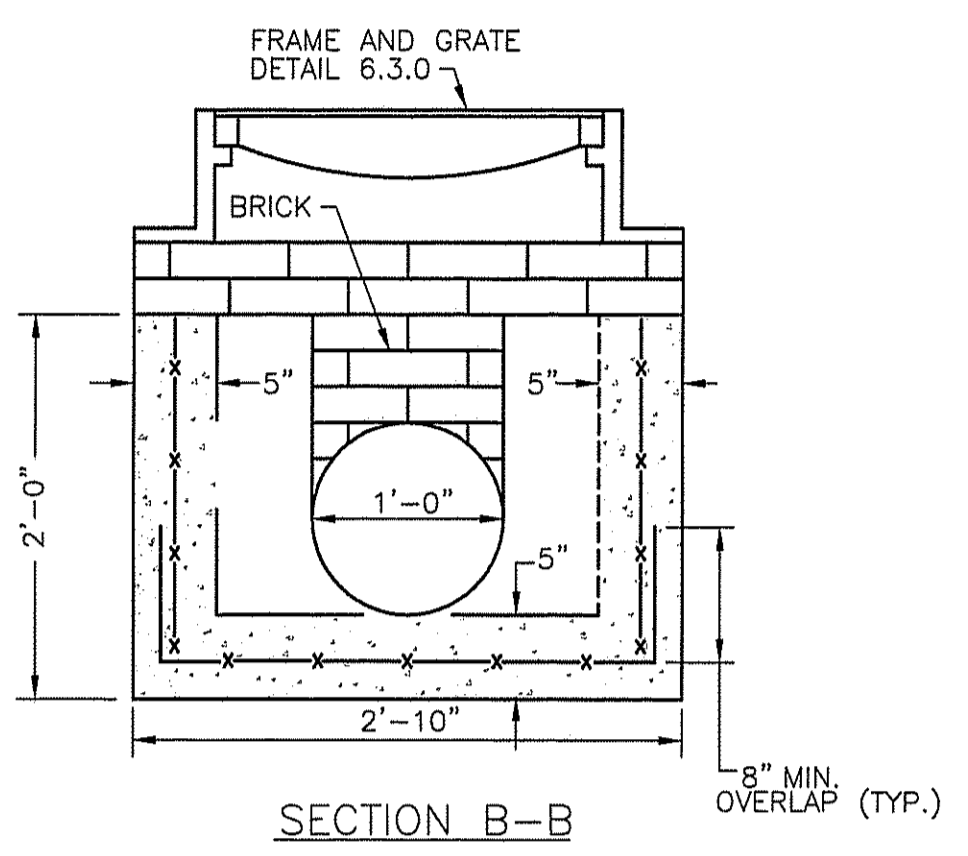
REGISTERED PROFESSIONAL ENGINEER
TIMOTHY J. BEHAN
NO. 6278
REGISTERED PROFESSIONAL ENGINEER
MICHAEL ROBERTSON
NO. 1076

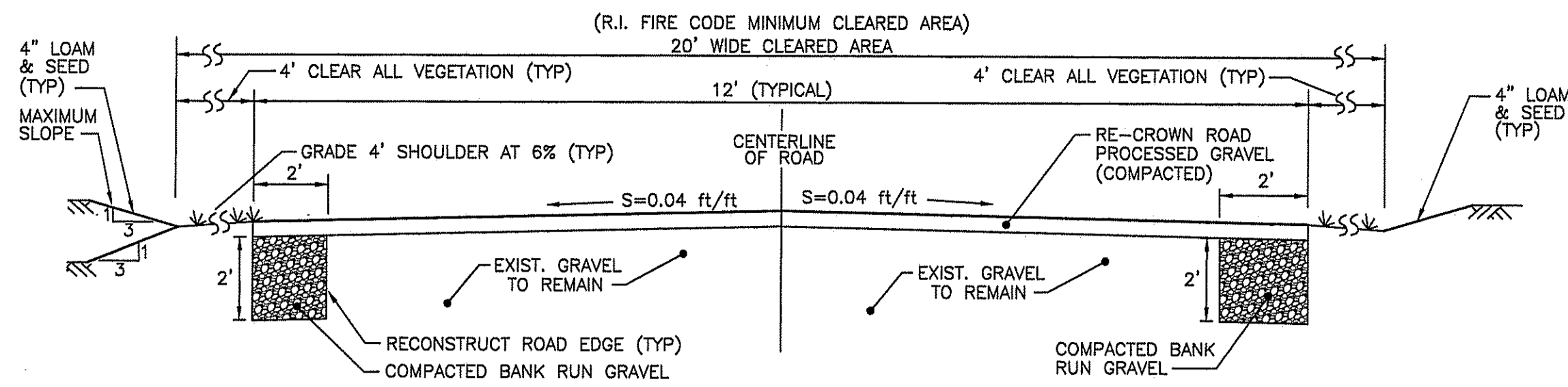
TJB ENGINEERING, LLC
CIVIL ENGINEERING
PERMITTING * LAND PLANNING
SUBDIVISIONS * WASTEWATER
1050 MAIN STREET SUITE 31
EAST GREENWICH, RI 02818
PHONE: 401-996-1677



- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 - MINIMUM REQUIRED CONCRETE REINFORCEMENT = 0.12 SQ. IN./LIN. FT. (EACH WAY).
 - MINIMUM COVER ON REINFORCEMENT SHALL BE 2".

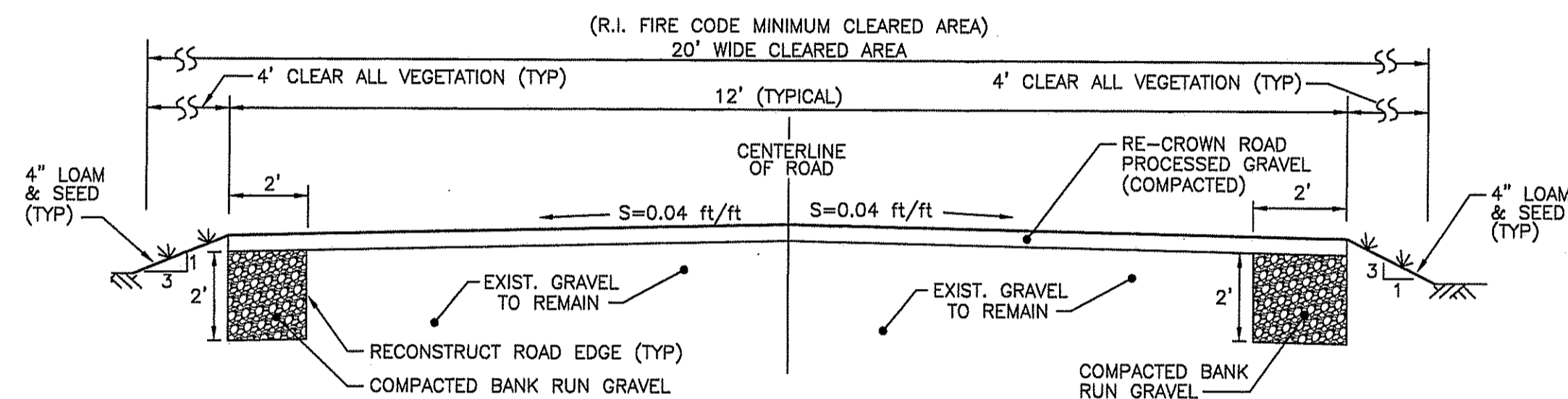
CONCRETE TOLERANCES	
DIMENSION	TOLERANCE
0"-12"	1/4"
12"-24"	1/2"
24"-36"	3/4"





- NOTES:**
1. THIS DETAIL PERTAINS TO DRIVEWAY STATION 0+00 TO 2+00 AND 4+50 TO 9+00 ONLY.
 2. NO GRADE CHANGES PROPOSED.
 3. ALL MATERIALS SHALL CONFORM TO THE SPECIFICATIONS PROVIDED.
 4. FOR EDGE RECONSTRUCTION, THE CONTRACTOR SHALL REMOVE ALL FINE TEXTURED SOILS (LOAM, SUBSOIL) AND REPLACE WITH COMPACTED BANK RUN GRAVEL (APPROXIMATE DEPTH OF UNSUITABLE FINE TEXTURED SOILS IS 24 INCHES BELOW ORIGINAL GRADE).
 5. SCARIFY DRIVEWAY SURFACE AND RECREATE A ROAD CROWN, TOP DRESS WITH PROCESSED GRAVEL. DO NOT CHANGE ROAD ELEVATION.
 6. MAXIMUM COMPACTED LIFT DEPTH SHALL BE 9". COMPACTION OF EACH LAYER SHALL CONTINUE UNTIL A DENSITY OF NOT LESS THAN 95 PERCENT OF THE MAXIMUM DENSITY HAS BEEN ACHIEVED.
 7. PURSUANT TO RHODE ISLAND FIRE CODE (NFPA 1) A 20 FOOT WIDE PATH SHALL BE CLEARED.

ROAD EDGE RECONSTRUCTION
(STA. 0+00 TO 2+00 AND STA. 4+50 TO 9+00)
NOT TO SCALE



- NOTES:**
1. THIS DETAIL PERTAINS TO DRIVEWAY STATION 2+00 TO 4+50 ONLY.
 2. NO GRADE CHANGES PROPOSED.
 3. ALL MATERIALS SHALL CONFORM TO THE SPECIFICATIONS PROVIDED.
 4. FOR EDGE RECONSTRUCTION, THE CONTRACTOR SHALL REMOVE ALL FINE TEXTURED SOILS (LOAM, SUBSOIL) AND REPLACE WITH COMPACTED BANK RUN GRAVEL (APPROXIMATE DEPTH OF UNSUITABLE FINE TEXTURED SOILS IS 24 INCHES BELOW ORIGINAL GRADE).
 5. SCARIFY DRIVEWAY SURFACE AND RECREATE A ROAD CROWN, TOP DRESS WITH PROCESSED GRAVEL. DO NOT CHANGE ROAD ELEVATION.
 6. MAXIMUM COMPACTED LIFT DEPTH SHALL BE 9". COMPACTION OF EACH LAYER SHALL CONTINUE UNTIL A DENSITY OF NOT LESS THAN 95 PERCENT OF THE MAXIMUM DENSITY HAS BEEN ACHIEVED.
 7. PURSUANT TO RHODE ISLAND FIRE CODE (NFPA 1) A 20 FOOT WIDE PATH SHALL BE CLEARED.

ROAD EDGE RECONSTRUCTION ADJACENT TO WETLANDS
(STA. 2+00 TO 4+50)
NOT TO SCALE

DRAINAGE SYSTEM - INSPECTION, MAINTENANCE AND REPAIR NOTES:

1. THE PROPERTY OWNER SHALL MAINTAIN THE PROPOSED DRAINAGE SYSTEM COMPONENTS WHICH INCLUDE THE DROP INLET, CULVERT PIPE AND OUTLET RIP RAP AREA.
2. THE DRAINAGE SYSTEM SHOULD BE INSPECTED TWICE PER YEAR BY A QUALIFIED INDIVIDUAL, GENERALLY IN THE SPRING AND FALL. THE SYSTEM SHOULD BE INSPECTED PRIOR TO AND AFTER ALL SIGNIFICANT PRECIPITATION EVENTS.

- CULVERT PIPE, DROP INLET STRUCTURE & OUTLET RIP RAP AREA:**
- A. ALL CLOGGED OR SEDIMENT FILLED PIPES WHICH ARE MORE THAN 10% SEDIMENT FILLED SHALL BE CLEANED OUT IMMEDIATELY. WHEN CLEANING OUT PIPES, ENSURE DOWNSTREAM AREAS ARE PROTECTED FROM SEDIMENT DISCHARGES.
 - B. REMOVE TRASH AND LITTER.
 - C. INSPECT OUTLET RIP RAP AREAS. REPAIR ALL ERODED AREAS BY SUPPLEMENTING WITH MORE RIP RAP AND ESTABLISHING NEW VEGETATIVE GROWTH.
 - D. CLEAR DEBRIS AWAY FROM THE INLET ORIFICE AND INLET GRATE.

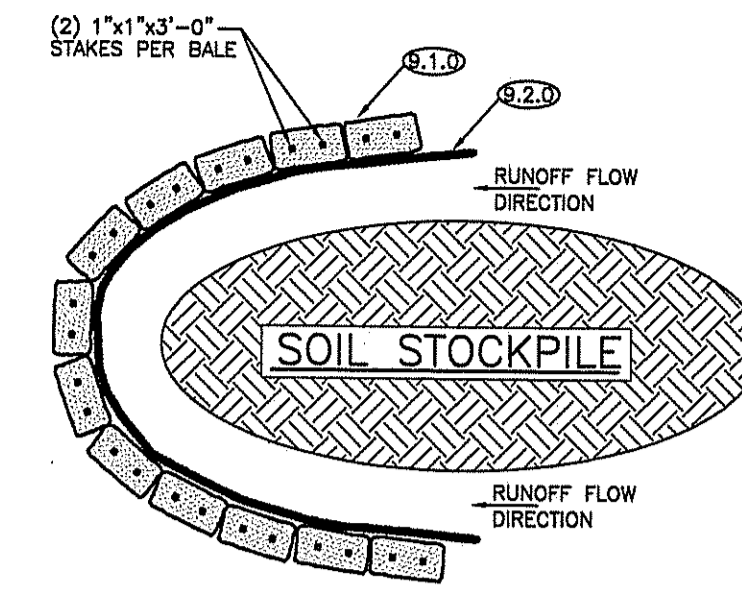
GRAVEL SPECIFICATIONS:
GRADATION REQUIREMENTS (PERCENT PASSING)

SIEVE	BANK RUN GRAVEL	PROCESSED GRAVEL
1.5"	100%	-
3/4"	80-100%	100%
3/8"	68-91%	-
No.4	46-70%	50-78%
No.8	34-54%	37-67%
No.40	13-35%	13-35%
No.200	3-10%	4-15%

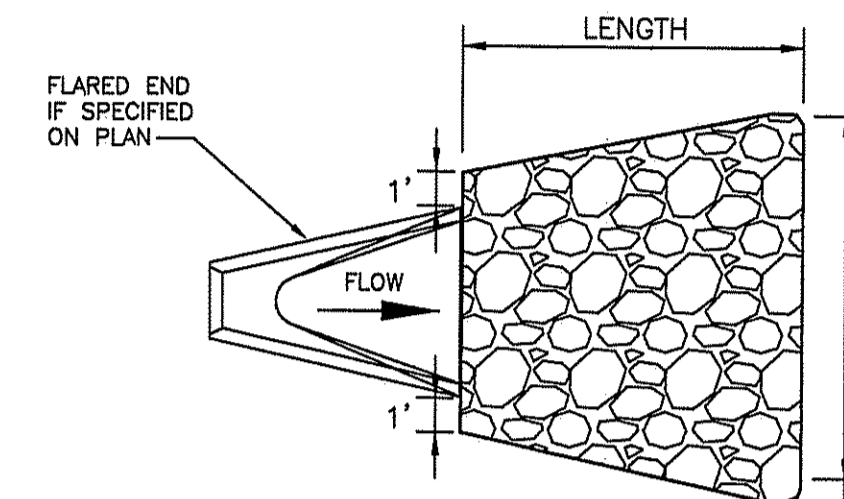
OR APPROVED EQUAL BY ENGINEER

- NOTES:**
1. THIS DETAIL PERTAINS TO DRIVEWAY STATION 9+00 TO 11+99 ONLY.
 2. NO GRADE CHANGES ARE PROPOSED.
 3. ALL MATERIALS SHALL CONFORM TO SPECIFICATIONS PROVIDED.
 4. CONTRACTOR SHALL REMOVE ALL FINE TEXTURED SOILS (LOAM, SUBSOIL) AND REPLACE WITH COMPACTED BANK RUN GRAVEL (APPROXIMATE DEPTH OF UNSUITABLE FINE TEXTURED SOILS IS 24 INCHES BELOW ORIGINAL GRADE).
 5. THE TOP 6" OF THE DRIVEWAY SHALL BE A COMPACTED LAYER OF PROCESSED GRAVEL. GRAVEL BASE SHALL BE SCARIFIED PRIOR TO PLACEMENT OF PROCESS GRAVEL.
 6. MAXIMUM COMPACTED LIFT DEPTH SHALL BE 12". COMPACTION OF EACH LAYER SHALL CONTINUE UNTIL A DENSITY OF NOT LESS THAN 95 PERCENT OF THE MAXIMUM DENSITY HAS BEEN ACHIEVED.
 7. PURSUANT TO RHODE ISLAND FIRE CODE (NFPA 1) A 20 FOOT WIDE PATH SHALL BE CLEARED.

TYPICAL GRAVEL DRIVEWAY CROSS SECTION
(STA. 9+00 TO 11+99)
NOT TO SCALE



SOIL STOCKPILE AREA DETAIL
WITH DOUBLE EROSION PROTECTION
(TYPICAL ALL STOCK PILES)

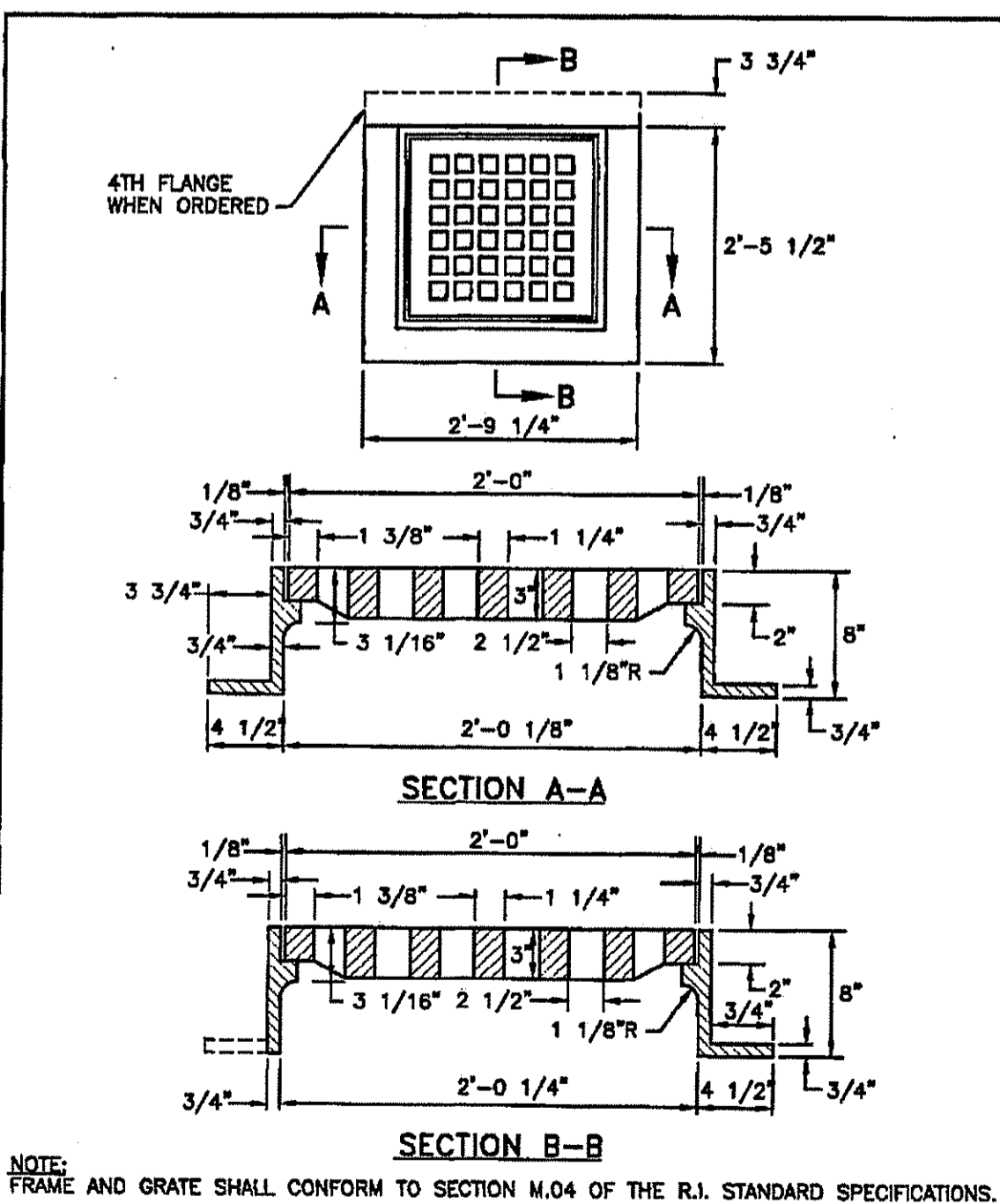


- MATERIAL SPECIFICATIONS:**
- R-6 RIP RAP: 100% PASS - 26", 0-50% PASS - 13", 0-15% PASS - 8"
 - R-5 RIP RAP: 100% PASS - 20", 0-50% PASS - 10", 0-15% PASS - 6"
 - R-4 RIP RAP: 100% PASS - 14", 0-50% PASS - 7", 0-15% PASS - 4"
 - R-3 RIP RAP: 100% PASS - 8", 0-50% PASS - 4", 0-15% PASS - 2"
 - FS-3 FILTER STONE: 100% PASS - 2", 0-50% PASS - NO.4, 0-15% PASS - NO.4
 - FS-2 FILTER STONE: 100% PASS - NO.4, 0-50% PASS - NO.16, 0-15% PASS - NO.16
 - FS-1 FILTER STONE: 100% PASS - 1/2", 0-50% PASS - NO.16, 0-15% PASS - NO. 50

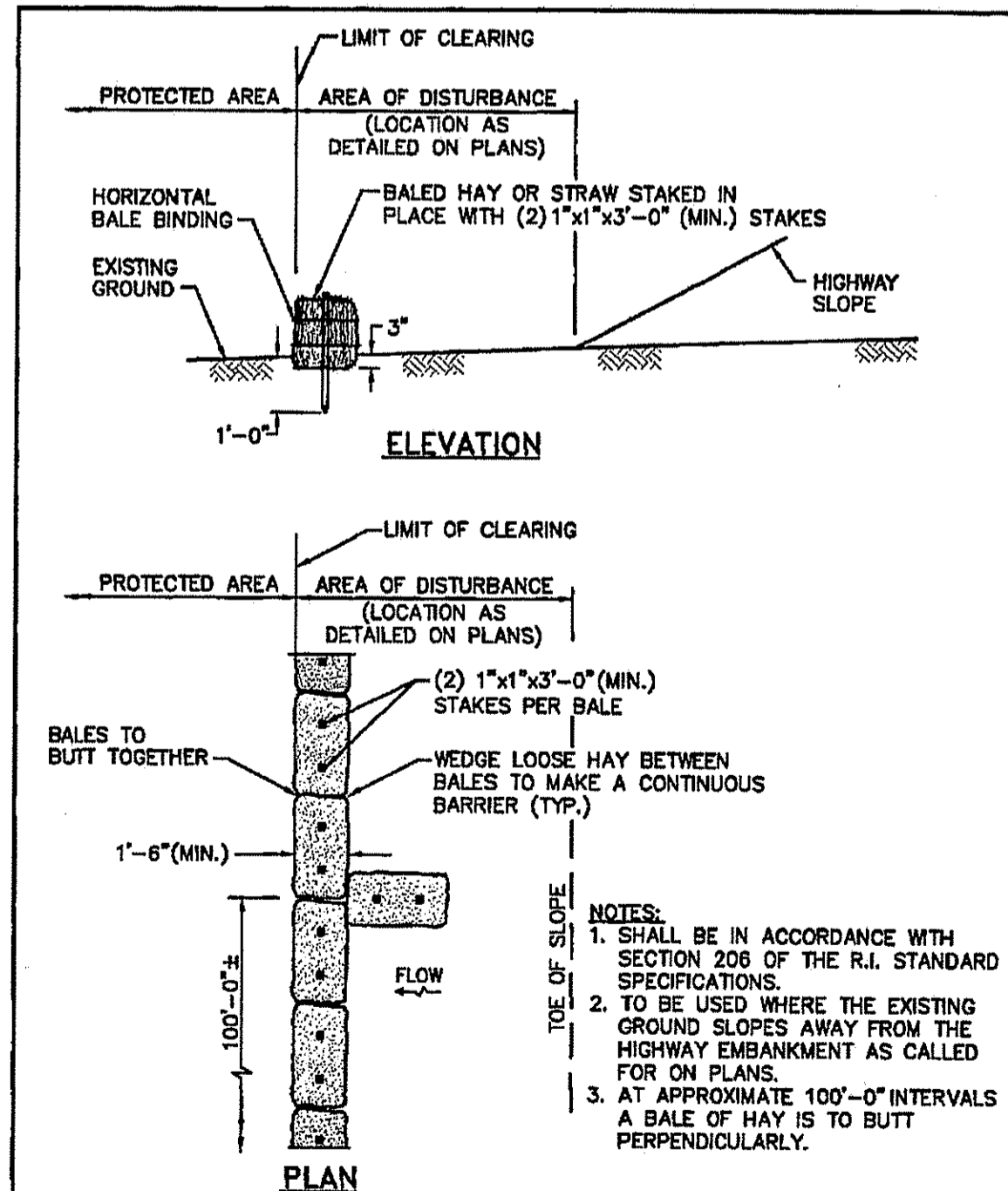
LOCATION OF RIP RAP OUTLET	FILTER FABRIC	RIP RAP DEPTH & SIZE	LENGTH	WIDTH
12" INLET UNDER DRIVEWAY	MIRAFI 180N	12" R-4	14'	9"
12" OUTLET UNDER DRIVEWAY	MIRAFI 180N	12" R-4	SEE DROP INLET DETAIL	

NOTE: PLACE RIP RAP OVER FILTER FABRIC.

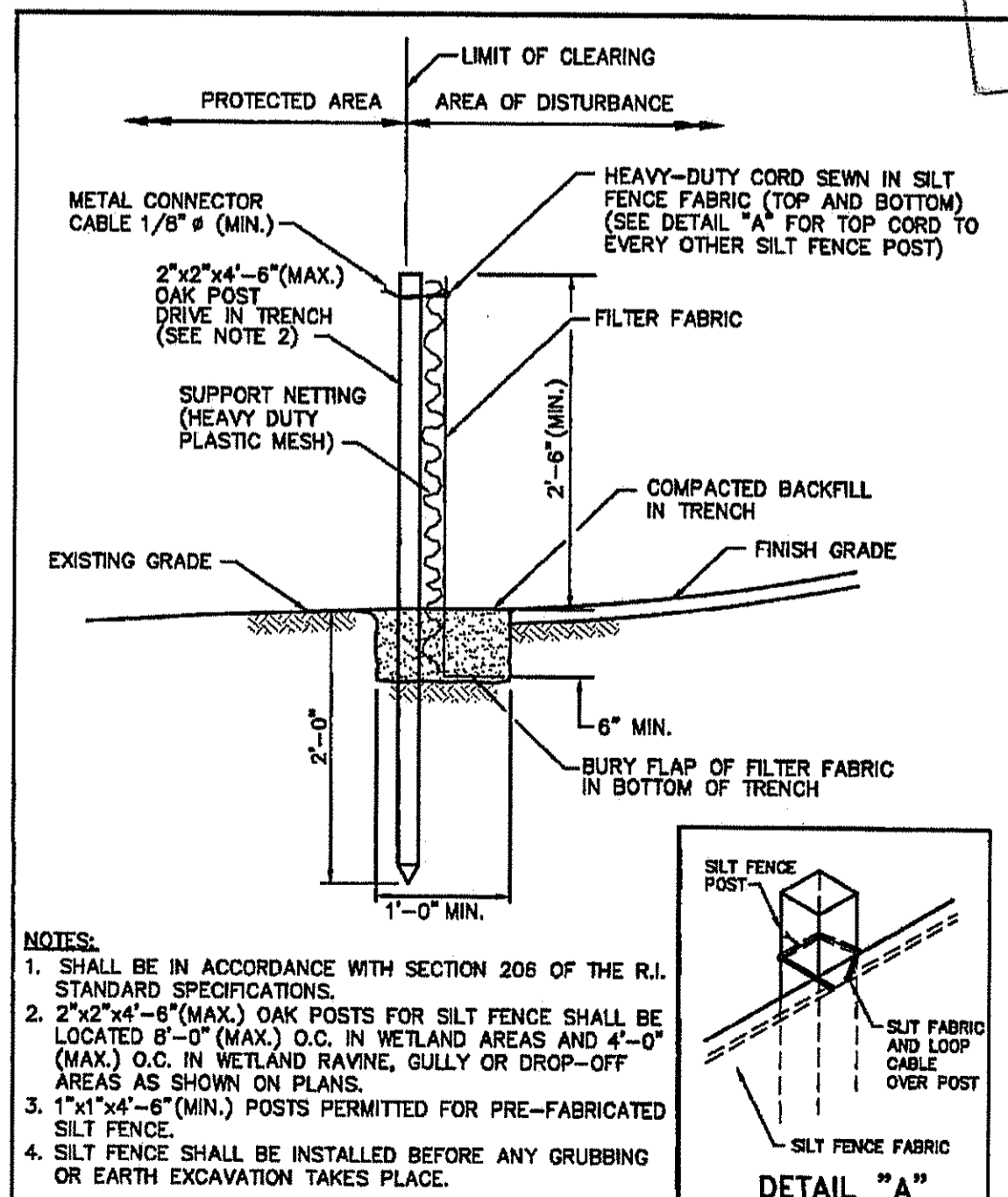
OUTLET RIP RAP DETAIL
NOT TO SCALE



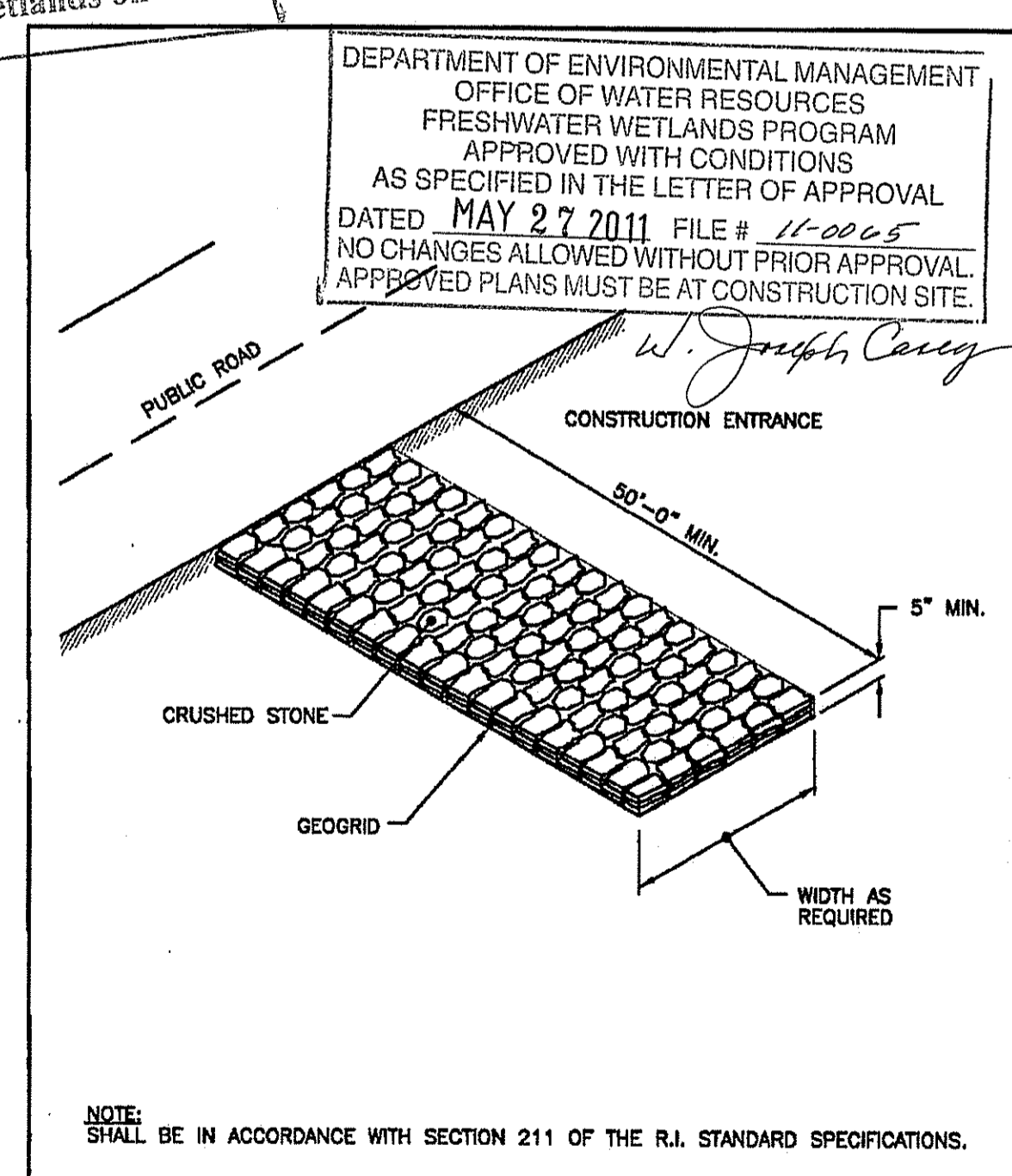
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
SQUARE FRAME AND GRATE
R.I. STANDARD 6.3.0
JUNE 15, 1998



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
BALED HAY EROSION CHECK
R.I. STANDARD 9.1.0
JUNE 15, 1998



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
SILT FENCE DETAIL
R.I. STANDARD 9.2.0
JUNE 15, 1998



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
CONSTRUCTION ACCESS
R.I. STANDARD 9.9.0
JUNE 15, 1998

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W. Joseph Carey
PROFESSIONAL ENGINEER

DRIVEWAY SAFETY IMPROVEMENTS
83 HAMILTON AVENUE
JAMESTOWN, RHODE ISLAND
PROPERTY OWNER & APPLICANT:
Victoria A. Valentine
3 MEADOW LANE
JAMESTOWN, RI 02835

Checked By: T.J.B. Date: APR. 2011
Scale: AS SHOWN

NO.	REVISIONS	BY	DATE

TJB ENGINEERING, LLC
CIVIL ENGINEERING
PERMITTING * LAND PLANNING
SUBDIVISIONS * WASTEWATER

1050 MAIN STREET SUITE 31
EAST GREENWICH, RI 02818
PHONE: 401-996-1677