

**CONSERVATION OPEN SPACE AREA TABLE**

**EXISTING**

TOTAL LAND AREA	1,043,611 SQ. FT. ±
TOTAL SUITABLE LAND	573,438 SQ. FT. ±
60% MIN. REQ. OPEN SPACE	344,063 SQ. FT. ±
40% MAX. DEVELOPMENT AREA	229,375 SQ. FT. ±

**PROPOSED**

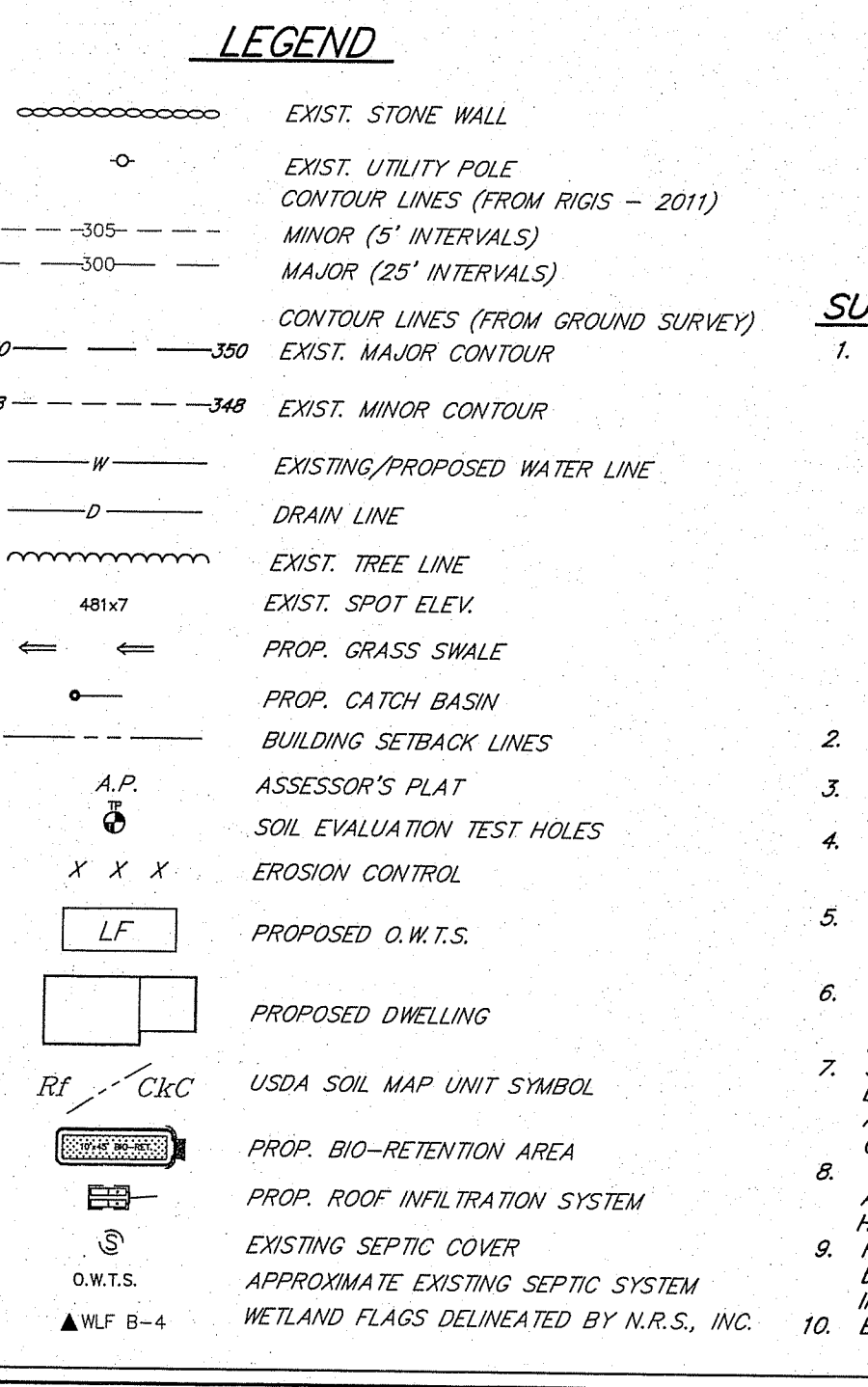
573,438 SQ. FT. ± SUITABLE LAND
-214,973 SQ. FT. ± PROP. DEVELOPMENT AREA
358,465 SQ. FT. ± PROPOSED OPEN SPACE
62.5% OF LOT AREA TO BE OPEN SPACE

**SITE DEVELOPMENT AREA TABLE**

PROPOSED LOT 1	43,919 SQ. FT. ±
PROPOSED LOT 2	43,891 SQ. FT. ±
PROPOSED LOT 3	39,725 SQ. FT. ±
PROPOSED LOT 4	41,387 SQ. FT. ±
PROPOSED ROAD RIGHT OF WAY	46,051 SQ. FT. ±
<b>TOTAL DEVELOPMENT AREA</b>	<b>214,973 SQ. FT. ±</b>

**ZONING (ZONE R-2): CONSERVATION DEVELOPMENT**

ZONE R-2 DIMENSIONAL REGULATIONS FOR SINGLE-FAMILY USE:	CONSERVATION DEVELOPMENT DIMENSIONAL REGULATIONS FOR SINGLE-FAMILY USE:
MINIMUM LOT AREA:	10,000 SQ. FT.
LOT FRONTAGE (Feet):	80'
FRONT YARD:	50'
REAR YARD:	25'
SIDE YARD:	35'
MAXIMUM LOT COVERAGE:	10%
MAXIMUM BUILDING HEIGHT:	35'
MAXIMUM ACCESSORY HEIGHT:	25'
ACCESSORY SIDE YARD:	15'



**SURVEY & GENERAL NOTES**

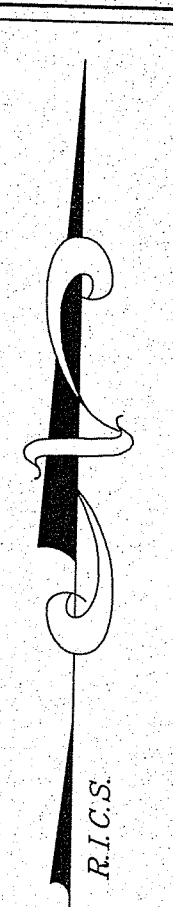
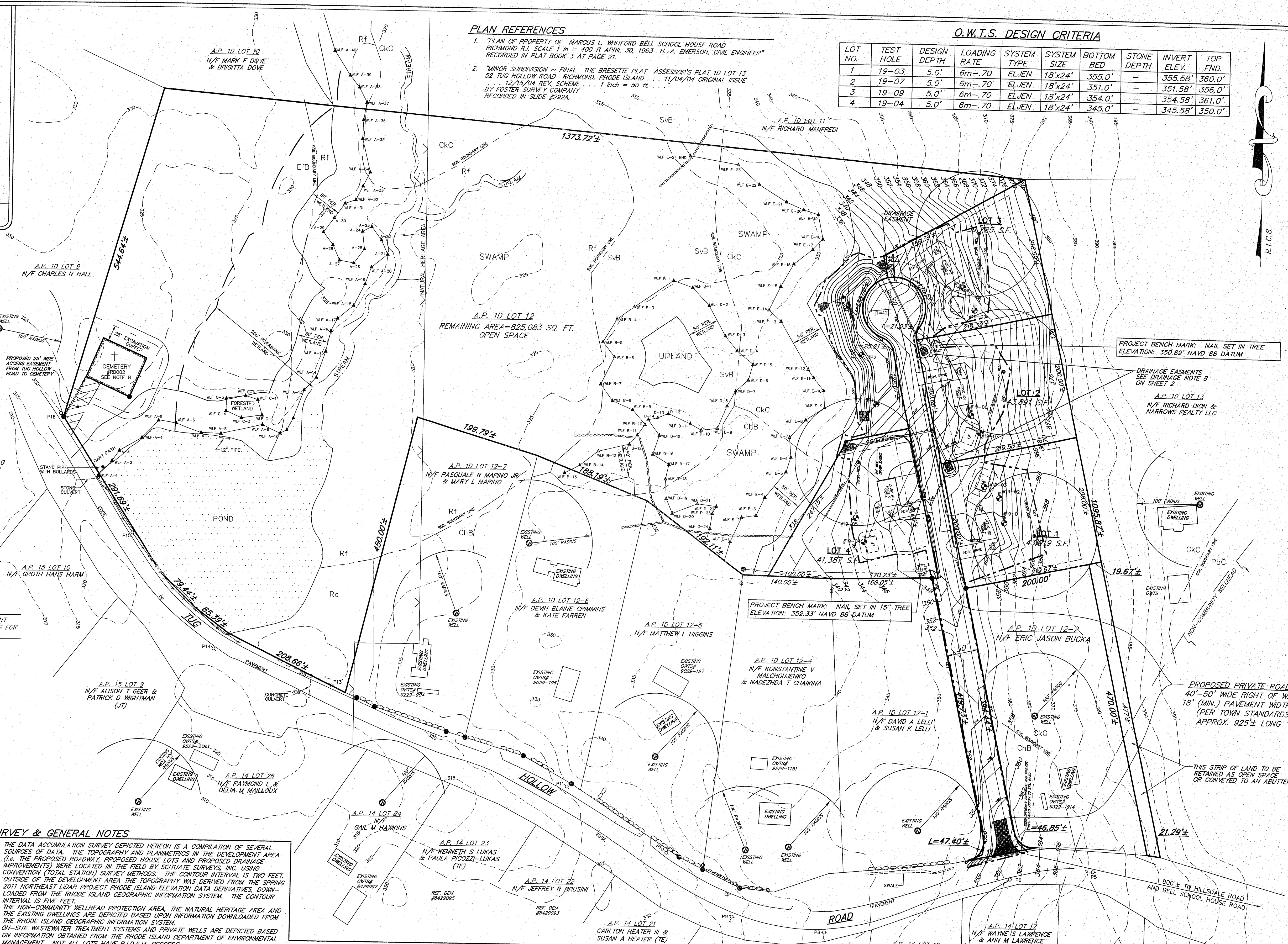
- THE DATA ACCUMULATION SURVEY DEPICTED HEREON IS A COMPILATION OF SEVERAL SOURCES OF DATA. THE TOPOGRAPHY AND PLANNIMETRICS IN THE DEVELOPMENT AREA (I.E. THE PROPOSED ROADWAY, PROPOSED HOUSE LOTS AND PROPOSED DRAINAGE IMPROVEMENTS) WERE LOCATED IN THE FIELD BY SCITUATE SURVEYS, INC. USING CONVENTIONAL (TOTAL STATION) SURVEY METHODS. THE CONTOUR INTERVAL IS TWO FEET. OUTSIDE OF THE DEVELOPMENT AREA THE TOPOGRAPHY WAS DERIVED FROM THE SPRING 2011 NORTHEAST LIDAR PROJECT RHODE ISLAND ELEVATION DATA DERIVATIVES, DOWNLOADED FROM THE RHODE ISLAND GEOGRAPHIC INFORMATION SYSTEM. THE CONTOUR INTERVAL IS THE FEET.
- THE PERIMETER DATA HEREON IS REPORTED TO A CLASS IV STANDARD, AND IS SUBJECT TO SUCH CHANGES AS AN ACTUAL BOUNDARY SURVEY MAY DISCLOSE.
- VERTICAL DATUM IS NAVD 88; HORIZONTAL DATUM IS NAD 83. BOTH WERE DERIVED FROM CONTROL SURVEYS WHICH EMPLOYED GLOBAL POSITIONING TECHNOLOGY.
- THE FRESHWATER WETLANDS WERE DELINEATED IN THE FIELD BY NATURAL RESOURCE SERVICES, INC. OF HARRISVILLE, RI. IN AUGUST OF 2017. THE FLAGS WERE SURVEY LOCATED BY SCITUATE SURVEYS, INC. USING GLOBAL POSITIONING TECHNOLOGY.
- THE SUBJECT PARCEL IS LOCATED IN ZONE R-2 RESIDENTIAL, AND IS THE SUBJECT OF A CONSERVATION DEVELOPMENT APPLICATION IN WHICH A MINIMUM OF 60% OF THE PARCEL IS TO BE DEDICATED OPEN SPACE.
- THE SITE LIES WITHIN FLOOD HAZARD ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAN). SEE FLOOD INSURANCE RATE MAP NO. H400000204H DATED OCTOBER 19, 2010.
- SURFACE EVIDENCE OF PUBLIC AND PRIVATE UTILITIES IS BASED UPON LIMITED SURVEY LOCATION. UTILITY INFORMATION IS NOT COMPLETE, AND IS SUBJECT TO SUCH CHANGES AS ADDITIONAL DATA MAY DISCLOSE. ALL EXCAVATION MUST BE PRECEDED BY CONTACTING "DIG-SAFE" FOR A MORE RELIABLE LAYOUT OF EXISTING UTILITIES.
- THE CEMETERY IS IDENTIFIED AS R002-ROBERT REYNOLDS LOT AND IS ALSO KNOWN AS RHODE ISLAND HISTORICAL CEMETERY #2 (RICHMOND). SEE THE RHODE ISLAND HISTORICAL CEMETERY COMMISSION DATABASE.
- FOR WATER TABLE DATA REFER TO SOIL EVALUATION APPLICATION #1929-0865 DATED JULY 25, 2019. ADDITIONAL SOIL EVALUATIONS (TP1-TP3) WERE PERFORMED IN NOVEMBER 2019 FOR DRAINAGE DESIGN AND ARE INCLUDED WITH THIS APPLICATION.
- EXCEPT WHERE INDICATED THE SITE IS ENTIRELY WOODED.
- STRAW BALE EROSION CHECK (RI STANDARD 9.1.0), SILT FENCE AND/OR SILT SOX SHALL BE INSTALLED PRIOR TO EARTH DISTURBING ACTIVITIES AND SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS.
- ALL IMPROVEMENTS SHALL BE ACCURATELY LOCATED AND STAKED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- ALL DISTURBED AREAS SHALL BE STABILIZED WITH 4" LOAM AND SEED OR SOD. PROPOSED SLOPES SHALL BE 3:1 (TYPICAL).
- ALL WORK SHALL BE PERFORMED IN STRICT CONFORMANCE WITH THE REQUIREMENTS OF THE R.I.D.E.M., WETLANDS PERMIT, O.W.T.S. PERMIT, AND IN COMPLIANCE WITH ALL TOWN REGULATIONS.
- ALL STAGES OF O.W.T.S. CONSTRUCTION MUST BE SUPERVISED BY THE SYSTEM DESIGNER. THERE ARE NO EXISTING OR PROPOSED PUBLIC WATER SUPPLY SOURCES WITHIN 500' OF PROPOSED LOT OTHER THAN THOSE SHOWN ON PLAN.
- THERE ARE NO EXISTING OR PROPOSED SEWAGE DISPOSAL SYSTEMS WITHIN 25' OF THE PROPOSED WATER SUPPLY LINE OTHER THAN THOSE SHOWN ON THE PLAN.
- THERE ARE NO EXISTING OR PROPOSED INDIVIDUAL WATER SUPPLIES WITHIN 200' OF THE PROPOSED ON-SITE WASTEWATER TREATMENT SYSTEM OTHER THAN THOSE SHOWN ON THE PLAN.

**PLAN REFERENCES**

- "PLAN OF PROPERTY OF MARCUS L. WHITFORD BELL SCHOOL HOUSE ROAD RICHMOND R.I. SCALE 1 in = 400 ft APRIL 30, 1963 H. A. EMERSON, CIVIL ENGINEER" RECORDED IN PLAT BOOK 3 AT PAGE 21.
- "MINOR SUBDIVISION ~ FINAL THE BRESSETTE PLAT ASSESSOR'S PLAT 10 LOT 13 52 TUG HOLLOW ROAD RICHMOND, RHODE ISLAND . . . 11/04/04 ORIGINAL ISSUE 12/19/04 REV. SCHEME . . . 1 inch = 50 ft . . . BY FOSTER SURVEY COMPANY RECORDED IN SLIDE #292A.

**O.W.T.S. DESIGN CRITERIA**

LOT NO.	TEST HOLE	DESIGN DEPTH	LOADING RATE	SYSTEM TYPE	SYSTEM SIZE	BOTTOM BED	STONE DEPTH	INVERT ELEV.	TOP FND.
1	19-03	5.0'	6m-70	ELJEN	18"x24"	355.0'	-	355.58'	360.0'
2	19-07	5.0'	6m-70	ELJEN	18"x24"	351.0'	-	351.58'	356.0'
3	19-09	5.0'	6m-70	ELJEN	18"x24"	354.0'	-	354.58'	361.0'
4	19-04	5.0'	6m-70	ELJEN	18"x24"	345.0'	-	345.58'	350.0'



PROJECT BENCH MARK: NAIL SET IN TREE ELEVATION: 350.89' NAVD 88 DATUM

DRAINAGE EASEMENTS SEE DRAINAGE NOTE B ON SHEET 2

PROPOSED PRIVATE ROAD 40'-50' WIDE RIGHT OF WAY 18' (MIN.) PAVEMENT WIDTH (PER TOWN STANDARDS) APPROX. 925'± LONG

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WETLANDS & FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED JUL 23 2020 FILE # 20-0069  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

**SHEET INDEX**

S1	OVERALL SITE PLAN
C2	GRADING PLAN
C3	DRIVEWAY PROFILE & DETAILS
C4	DRAINAGE DETAILS & NOTES
C5	EROSION CONTROL DETAILS & NOTES

**OWNERS / APPLICANTS**

BLUE WATER REALTY, LLC AND JOHN SHEKARCHI ESQUIRE  
RETIREMENT PLAN AND TRUST  
C/O JOHN SHEKARCHI  
132 OLD RIVER ROAD, SUITE 103  
LINCOLN, RHODE ISLAND 02865  
TELEPHONE 401.722.3600

**SCITUATE SURVEYS, INC.**

410 TIOGUE AVENUE  
COVENTRY, RHODE ISLAND 02816  
401-921-8101

LAND SURVEYING/MAPPING/SITE PLANNING

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 8 OF THE PUBLIC REGULATION ACT OF 1968 AS AMENDED BY THE PUBLIC REGULATION ACT OF 1978 AND THE PUBLIC REGULATION ACT OF 1982.

CLASS II BOUNDARY PREPARED FROM SOURCES OF INFORMATION AND DATA WHICH ARE NOT REPUTABLE. RELIABILITY HAS NOT BEEN PROVED. THE PROPERTY LINES SHOWN DO NOT REPRESENT A GUARANTEED SURVEY. CONDUCTED BY SUCH CHANGES AS AN AUTHENTIC BOUNDARY SURVEY WOULD DISCLOSE.

THE PURPOSE OF THIS SURVEY WAS TO CONDUCT A DATA ACCUMULATION SURVEY AND TO COLLECT TOPOGRAPHIC AND PHYSICAL DATA FOR DESIGN OF A SUBDIVISION OF THE EXISTING PARCEL.

ANGELO M. RAIMONDI  
No. 1762  
PROFESSIONAL LAND SURVEYOR

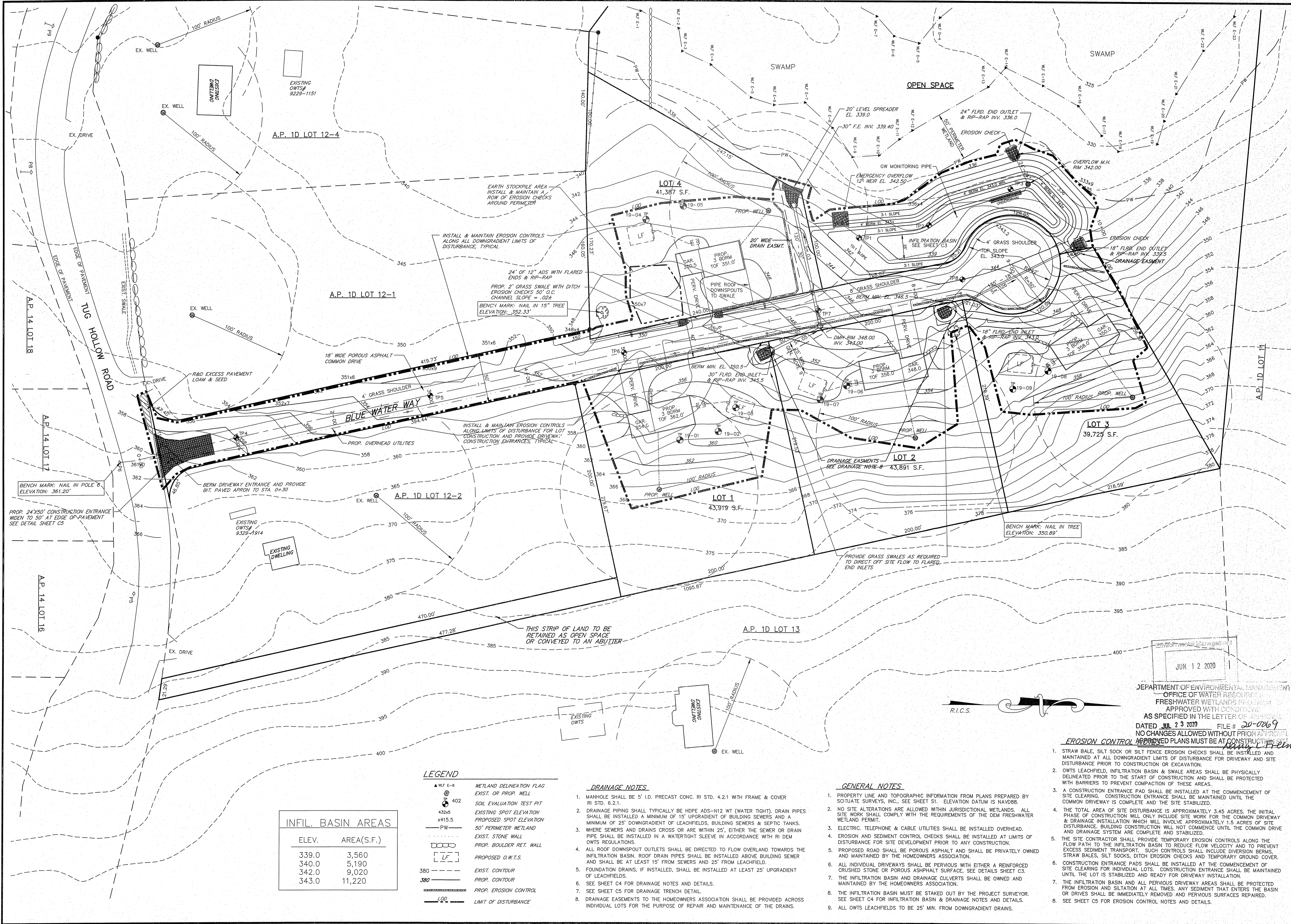
ANGELO M. RAIMONDI  
No. 1762  
PROFESSIONAL LAND SURVEYOR

PLAN SHOWING  
PROPOSED SUBDIVISION  
**TUG HOLLOW**  
ASSESSOR'S PLAT 10 LOT 12  
TUG HOLLOW ROAD  
RICHMOND, RHODE ISLAND

JUN 13 2020

SCALE: 1"=80' DATE: FEBRUARY 8, 2020 REVISION: JUNE 8, 2020

PROJECT NO.: SS2828 SHEET 1 OF 5  
DRAWING NO.: SS4674



INFIL. BASIN AREAS	
ELEV.	AREA(S.F.)
339.0	3,560
340.0	5,190
342.0	9,020
343.0	11,220

- LEGEND**
- ▲ WLF E-8 WETLAND DELINEATION FLAG
  - EXIST. OR PROP. WELL
  - ⊙ 402 SOIL EVALUATION TEST PIT
  - 43x6 EXISTING SPOT ELEVATION
  - x415.5 PROPOSED SPOT ELEVATION
  - PW 50' PERIMETER WETLAND
  - EXIST. STONE WALL
  - PROP. BOULDER RET. WALL
  - LF PROPOSED O.W.T.S.
  - EXIST. CONTOUR
  - PROP. CONTOUR
  - PROP. EROSION CONTROL
  - LIMIT OF DISTURBANCE

- DRAINAGE NOTES**
1. MAINHOLE SHALL BE 5' I.D. PRECAST CONC. RI STD. 4.21 WITH FRAME & COVER RI STD. 6.21.
  2. DRAINAGE PIPING SHALL TYPICALLY BE HDPE ADS-N12 WT (WATER TIGHT). DRAIN PIPES SHALL BE INSTALLED A MINIMUM OF 15' UPGRADIENT OF BUILDING SEWERS AND A MINIMUM OF 25' DOWNGRADIENT OF LEACHFIELDS, BUILDING SEWERS & SEPTIC TANKS.
  3. WHERE SEWERS AND DRAINS CROSS OR ARE WITHIN 25', EITHER THE SEWER OR DRAIN PIPE SHALL BE INSTALLED IN A WATERTIGHT SLEEVE IN ACCORDANCE WITH RI DEM O.W.T.S. REGULATIONS.
  4. ALL ROOF DOWNSPOUT OUTLETS SHALL BE DIRECTED TO FLOW OVERLAND TOWARDS THE INFILTRATION BASIN. ROOF DRAIN PIPES SHALL BE INSTALLED ABOVE BUILDING SEWER AND SHALL BE AT LEAST 15' FROM SEWERS AND 25' FROM LEACHFIELD.
  5. FOUNDATION DRAINS, IF INSTALLED, SHALL BE INSTALLED AT LEAST 25' UPGRADIENT OF LEACHFIELDS.
  6. SEE SHEET C4 FOR DRAINAGE NOTES AND DETAILS.
  7. SEE SHEET C5 FOR DRAINAGE TRENCH DETAIL.
  8. DRAINAGE EASEMENTS TO THE HOMEOWNERS ASSOCIATION SHALL BE PROVIDED ACROSS INDIVIDUAL LOTS FOR THE PURPOSE OF REPAIR AND MAINTENANCE OF THE DRAINS.

- GENERAL NOTES**
1. PROPERTY LINE AND TOPOGRAPHIC INFORMATION FROM PLANS PREPARED BY SOUTHAITE SURVEYS, INC., SEE SHEET S1. ELEVATION DATUM IS NAVD88.
  2. NO SITE ALTERATIONS ARE ALLOWED WITHIN JURISDICTIONAL WETLANDS. ALL SITE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE DEM FRESHWATER WETLAND PERMIT.
  3. ELECTRIC, TELEPHONE & CABLE UTILITIES SHALL BE INSTALLED OVERHEAD.
  4. EROSION AND SEDIMENT CONTROL CHECKS SHALL BE INSTALLED AT LIMITS OF DISTURBANCE FOR SITE DEVELOPMENT PRIOR TO ANY CONSTRUCTION.
  5. PROPOSED ROAD SHALL BE POROUS ASPHALT AND SHALL BE PRIVATELY OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION.
  6. ALL INDIVIDUAL DRIVEWAYS SHALL BE PERVIOUS WITH EITHER A REINFORCED CRUSHED STONE OR POROUS ASPHALT SURFACE. SEE DETAILS SHEET C3.
  7. THE INFILTRATION BASIN AND DRAINAGE CULVERTS SHALL BE OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION.
  8. THE INFILTRATION BASIN MUST BE STAKED OUT BY THE PROJECT SURVEYOR. SEE SHEET C4 FOR INFILTRATION BASIN & DRAINAGE NOTES AND DETAILS.
  9. ALL O.W.T.S. LEACHFIELDS TO BE 25' MIN. FROM DOWNGRADIENT DRAINS.

- EROSION CONTROL NOTES**
1. STRAW BALE, SILT SOCK OR SILT FENCE EROSION CHECKS SHALL BE INSTALLED AND MAINTAINED AT ALL DOWNGRADIENT LIMITS OF DISTURBANCE FOR DRIVEWAY AND SITE DISTURBANCE PRIOR TO CONSTRUCTION OR EXCAVATION.
  2. O.W.T.S. LEACHFIELD, INFILTRATION BASIN & SWALE AREAS SHALL BE PHYSICALLY DELINEATED PRIOR TO THE START OF CONSTRUCTION AND SHALL BE PROTECTED WITH BARRIERS TO PREVENT COMPACTION OF THESE AREAS.
  3. A CONSTRUCTION ENTRANCE PAD SHALL BE INSTALLED AT THE COMMENCEMENT OF SITE CLEARING. CONSTRUCTION ENTRANCE SHALL BE MAINTAINED UNTIL THE COMMON DRIVEWAY IS COMPLETE AND THE SITE STABILIZED.
  4. THE TOTAL AREA OF SITE DISTURBANCE IS APPROXIMATELY 3.45 ACRES. THE INITIAL PHASE OF CONSTRUCTION WILL ONLY INCLUDE SITE WORK FOR THE COMMON DRIVEWAY & DRAINAGE INSTALLATION WHICH WILL INVOLVE APPROXIMATELY 1.5 ACRES OF SITE DISTURBANCE. BUILDING CONSTRUCTION WILL NOT COMMENCE UNTIL THE COMMON DRIVE AND DRAINAGE SYSTEM ARE COMPLETE AND STABILIZED.
  5. THE SITE CONTRACTOR SHALL PROVIDE TEMPORARY EROSION CONTROLS ALONG THE FLOW PATH TO THE INFILTRATION BASIN TO REDUCE FLOW VELOCITY AND TO PREVENT EXCESS SEDIMENT TRANSPORT. SUCH CONTROLS SHALL INCLUDE DIVERSION BERMS, STRAW BALES, SILT SOCKS, DITCH EROSION CHECKS AND TEMPORARY GROUND COVER.
  6. CONSTRUCTION ENTRANCE PADS SHALL BE INSTALLED AT THE COMMENCEMENT OF SITE CLEARING FOR INDIVIDUAL LOTS. CONSTRUCTION ENTRANCE SHALL BE MAINTAINED UNTIL THE LOT IS STABILIZED AND READY FOR DRIVEWAY INSTALLATION.
  7. THE INFILTRATION BASIN AND ALL PERVIOUS DRIVEWAY AREAS SHALL BE PROTECTED FROM EROSION AND SILTATION AT ALL TIMES. ANY SEDIMENT THAT ENTERS THE BASIN OR DRIVES SHALL BE IMMEDIATELY REMOVED AND PERVIOUS SURFACES REPAIRED.
  8. SEE SHEET C5 FOR EROSION CONTROL NOTES AND DETAILS.

JUN 12 2020  
 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED JUL 23 2020 FILE # 20-0269  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SET

REVISION  
 DATE 6-8-20  
 DEM F.W. COMMENTS

SCOTT F. MOOREHEAD  
 No. 4298  
 REGISTERED PROFESSIONAL ENGINEER

OWNER & APPLICANT  
 BLUE WATER REALTY, LLC  
 C/O JOHN SHEKHARCHI, TRUSTEE  
 132 OLD RIVER ROAD, SUITE 103  
 LINCOLN, RI 02865  
 401-722-3600

TUG HOLLOW PLAT  
 CONSERVATION DEVELOPMENT SUBDIVISION  
 ASSESSOR'S PLAT 10, LOT 12  
 POLE 6 TUG HOLLOW ROAD  
 RICHMOND, RI

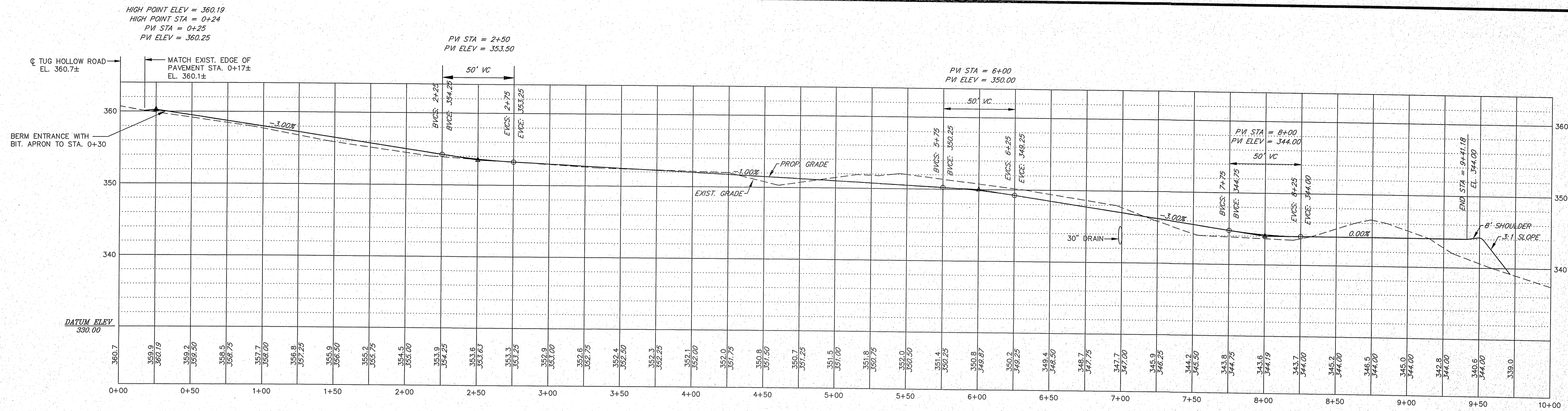
GRADING & EROSION CONTROL PLAN

S.F.M. ENGINEERING ASSOCIATES  
 410 TIOGUE AVENUE  
 COVENTRY, RI 02816  
 PHONE: 401-826-3736  
 FAX: 401-826-1771  
 SCOTT.SFM@A.TLANTCBBE.NET

DRN. BY: SFM  
 CHK. BY: JZL  
 DATE: FEB. 5, 2020  
 DWG: SFM878-GP-C  
 SHEET 2 OF 5  
 DEM PERMITTING SUBMISSION

SFM

C2



**BLUE WATER WAY PROFILE**

SCALE: HOR. 1"=40'  
VERT. 1"=8'

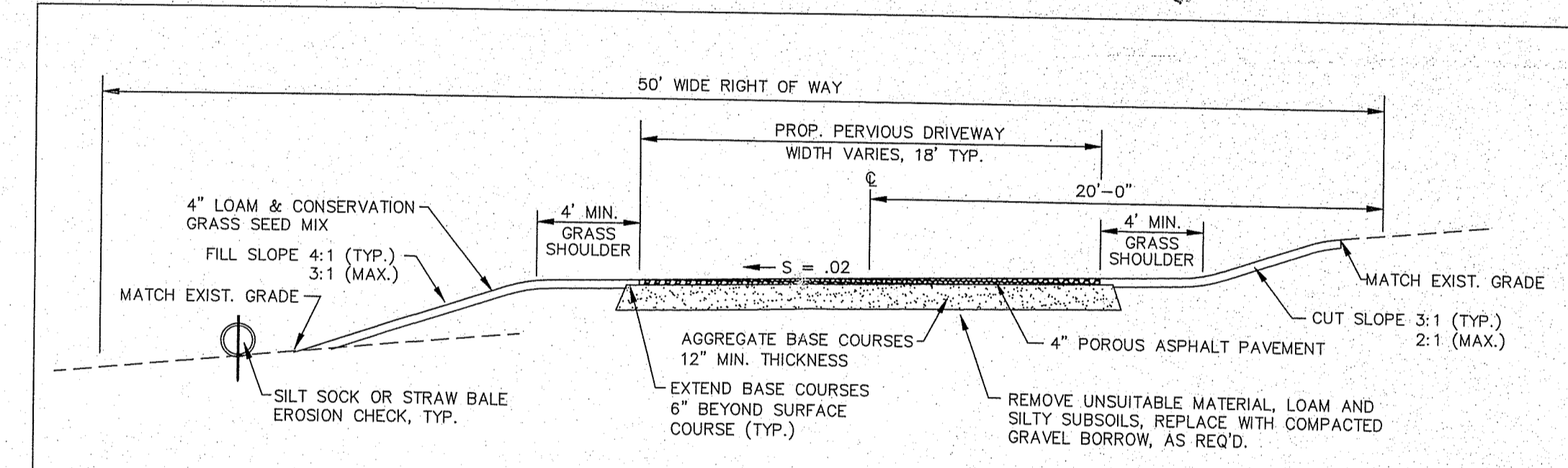
**GROUND WATER & LEDGE DEPTH TABLE**

TEST PIT	SHWT DEPTH	STATION	EXIST. GROUND	SHWT ELEV.	BOT. STONE EL.	SHWT SEPAR.	LEDGE DEPTH	LEDGE ELEV.
20-1	72"	1+00	357.7	351.7	356.7	5.0'	9'+	348.7
20-2	72"	3+00	352.9	346.9	351.3	4.4'	8.5'+	344.4
20-3	72"	5+00	351.5	345.5	349.7	4.2'	10'+	341.5
2C-4	72"	7+00	347.7	341.7	345.7	4.0'	6'+	339.7
20-5	72"	8+50	345.2	339.2	342.7	3.5'	7.5'+	337.7

NOTE: B HORIZON SOILS ARE SANDY LOAM TO A DEPTH OF 20" TO 28"  
C HORIZON SOILS ARE LOAMY SAND

**PERMEABLE DRIVEWAY MAINTENANCE NOTES:**

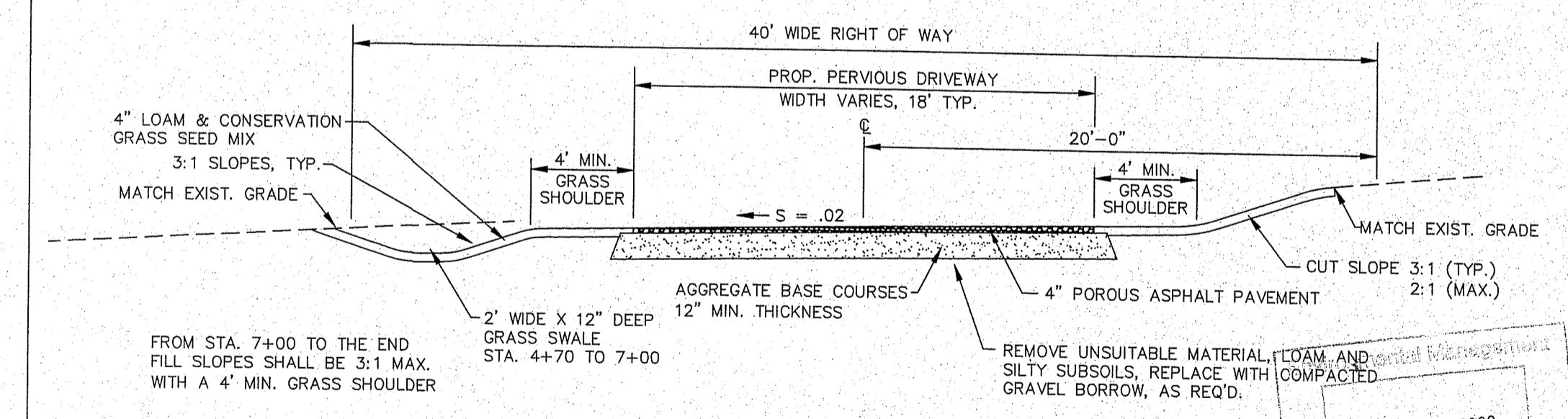
- GRAVEL AND CRUSHED STONE SHALL NOT BE INSTALLED UNTIL THE SITE IS READY FOR DRIVEWAY INSTALLATION AND ALL UPGRADIENT AREAS ARE STABILIZED WITH TURF OR MULCH.
- PERMEABLE DRIVEWAY AREAS SHALL BE PROTECTED AT ALL TIMES FROM EROSION AND SILTATION UNTIL THE SITE IS PERMANENTLY STABILIZED.
- DRIVEWAY SURFACES SHALL BE INSPECTED AFTER RAIN EVENTS AND ACCUMULATED DEBRIS AND SEDIMENTS SHALL BE REMOVED AS SOON AS POSSIBLE.
- IF PONDING ON THE SURFACE OCCURS AND ROUTINE CLEANING DOES NOT RESTORE INFILTRATION, THEN RECONSTRUCTION OF THE AREA OF FAILURE SHALL BE REQUIRED. PERMEABLE SURFACE SHALL BE REMOVED, CRUSHED STONE CLOGGED WITH SILTS SHALL BE REPLACED AND CRUSHED STONE OR PERVIOUS ASPHALT SURFACE REINSTALLED.
- MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL FINAL ACCEPTANCE OF THE PROJECT BY THE OWNER. AFTER FINAL ACCEPTANCE, MAINTENANCE AND REPAIR SHALL BE THE RESPONSIBILITY OF THE OWNER OR HOMEOWNERS ASSOCIATION.
- SNOW PLOWING OF CRUSHED STONE SURFACES SHALL BE DONE WITH SLIGHTLY RAISED PLOWS TO MINIMIZE DISTURBANCE OF THE SURFACE LAYER. AFTER PLOWING THE SURFACE LAYER SHALL BE REPAIRED OR REGRADED AS NECESSARY TO RESTORE ORIGINAL GRADING.
- THE USE OF DEICING SAND AND SALT SHALL BE MINIMIZED TO PREVENT CLOGGING OF THE PERVIOUS DRIVEWAY SURFACE.



**TYPICAL COMMON DRIVEWAY SECTION**

STA. 0+20 TO 4+70±

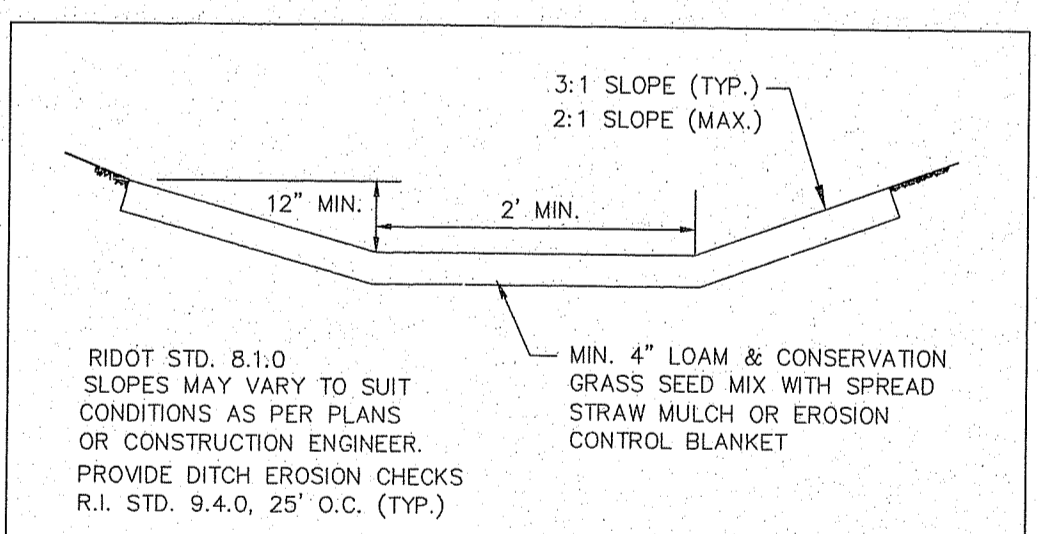
SCALE: 3/16" = 1'-0"



**TYPICAL COMMON DRIVEWAY SECTION**

STA. 4+70± TO END

SCALE: 3/16" = 1'-0"



**GRASS SWALE DETAIL**

NOT TO SCALE

**POROUS ASPHALT SPECIFICATIONS**

- MATERIALS SHALL MEET THE REQUIREMENTS OF THE NAPA DESIGN, CONSTRUCTION & MAINTENANCE OF OPEN GRADED FRICTION COURSES, INFORMATION SERIES 115 (2002) EXCEPT WHERE NOTED OR OTHERWISE APPROVED IN WRITING BY THE ENGINEER.
- THE ASPHALT BINDER SHALL BE A POLYMER OR FIBER MODIFIED PERFORMANCE GRADED ASPHALT BINDER, PG 64-28 SBS OR SBR WITH 5 POUNDS OF FIBER PER TON OF ASPHALT MIX.
- AGGREGATE COURSES SHALL BE COMPACTED TO A STANDARD PROCTER DENSITY OF 95%.
- THE MIXING PLANT, HAULING AND PLACING EQUIPMENT, AND CONSTRUCTION METHODS SHALL BE IN CONFORMANCE WITH NAPA IS 131 AND APPLICABLE SECTIONS OF THE RIDOT SPECIFICATIONS FOR ASPHALT MIXES.
- THE POROUS ASPHALT SHALL BE PLACED IN A SINGLE APPLICATION AT 4" THICKNESS. THE CONTRACTOR SHALL PROTECT ALL EXPOSED SURFACES FROM DAMAGE DURING ALL PHASES OF THE PAVEMENT OPERATION.
- THE FULL PERMEABILITY OF THE PAVEMENT SURFACE SHALL BE TESTED BY APPLICATION OF CLEAN WATER AT THE RATE OF AT LEAST 5 GPM OVER THE SURFACE. ALL APPLIED WATER SHALL INFILTRATE DIRECTLY WITHOUT LARGE PUDDLE FORMATION OR SURFACE RUNOFF, AND SHALL BE OBSERVED BY THE ENGINEER.
- ALL FILL, DEBRIS AND UNSUITABLE MATERIAL UNDER THE PAVEMENT AREAS SHALL BE REMOVED TO THE NATURAL SAND LAYER. COMPACTED GRAVEL BORROW BACKFILL SHALL BE PROVIDED TO THE BOTTOM OF THE RESERVOIR COURSE AS REQUIRED.
- TESTING AND INSPECTION: AN INSPECTION FIRM ACCEPTABLE TO THE OWNER & ENGINEER SHALL BE RETAINED TO PERFORM SOIL INSPECTION SERVICES, MATERIALS TESTING AND INSPECTION, AND PAVEMENT INSTALLATION INSPECTION. THE INSPECTION SCHEDULE AND LIST OF TESTS SHALL BE REVIEWED AND APPROVED IN WRITING BY THE ENGINEER PRIOR TO CONSTRUCTION. ALL THE TEST REPORTS MUST BE SIGNED BY A LICENSED ENGINEER.

**POROUS ASPHALT MIX**

SIEVE SIZE	PERCENT PASSING
3/4"	100
1/2"	85 - 100
3/8"	55 - 75
NO. 4	10 - 25
NO. 20	2 - 4
BINDER CONTENT	6 - 6.5%
FIBER CONTENT	0.3% CELLULOSE OR 0.4% MINERAL
RUBBER SOLIDS (SBR) CONTENT	1.5 - 3%
AIR VOID CONTENT	16.0 - 22.0%
DRAINDOWN	≤ 0.3%
RETAINED TENSILE STRENGTH	≥ 80%
CANTABRO ABRASION TEST (UNAGED)	≤ 20%
CANTABRO ABRASION TEST (7 DAY)	≤ 50%

**CHOKER COURSE**

SIEVE SIZE	PERCENT PASSING
1 1/2"	100
1"	95 TO 100
1/2"	25 TO 60
NO. 4	0 TO 10
NO. 8	0 TO 5
NO. 20	0

**FILTER COURSE**

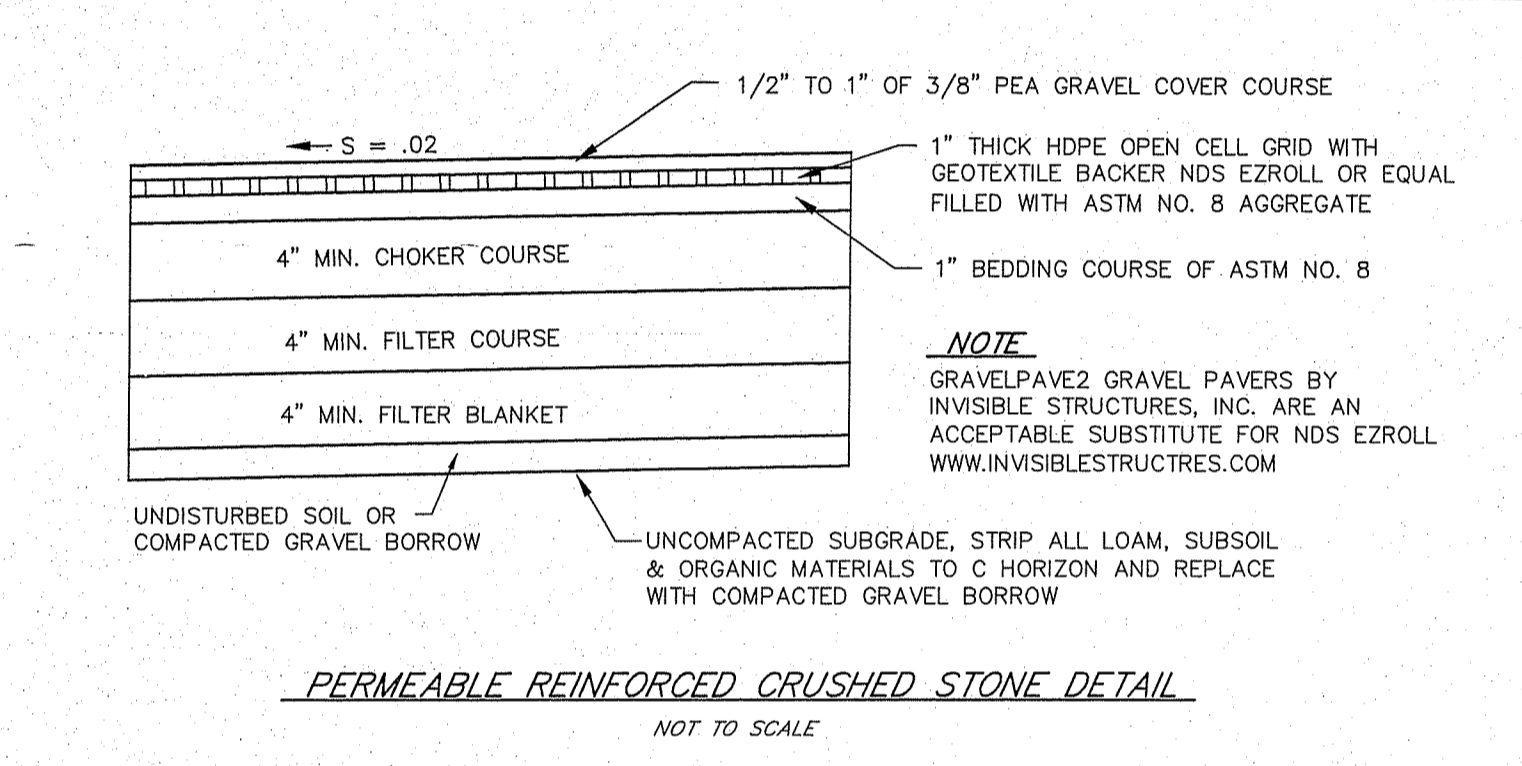
SIEVE SIZE	PERCENT PASSING
3/8"	100
NO. 4	70 TO 100
NO. 20	0 TO 6

**BEDDING AGGREGATE**

SIEVE SIZE	PERCENT PASSING
1/2"	100
3/8"	85 TO 100
NO. 4	10 TO 30
NO. 8	0 TO 10
NO. 16	0 TO 5
NO. 20	0

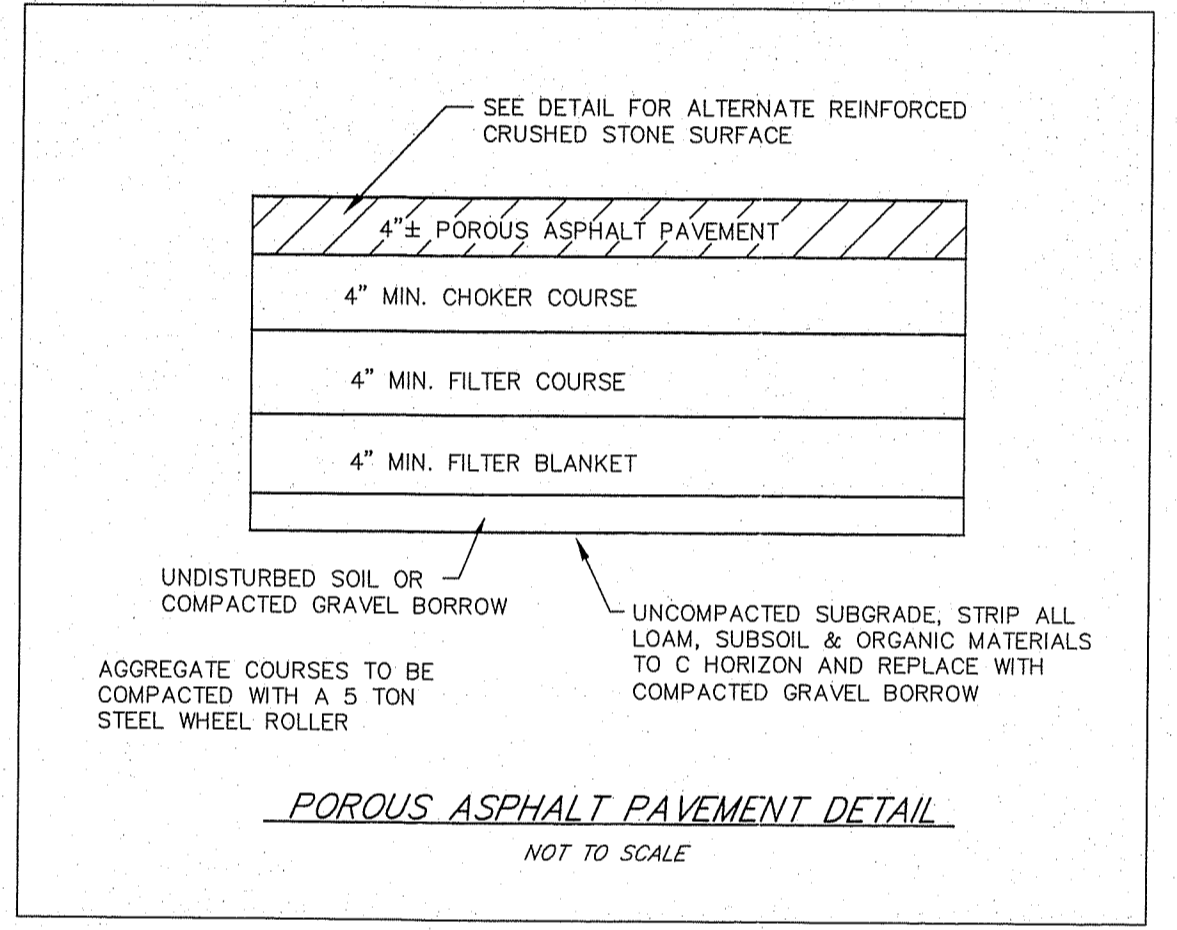
**GRAVEL BORROW SUBBASE**

SIEVE SIZE	PERCENT PASSING
3"	60 TO 100
1/2"	50 TO 85
3/8"	45 TO 80
NO. 4	40 TO 75
NO. 40	0 TO 45
NO. 200	0 TO 10



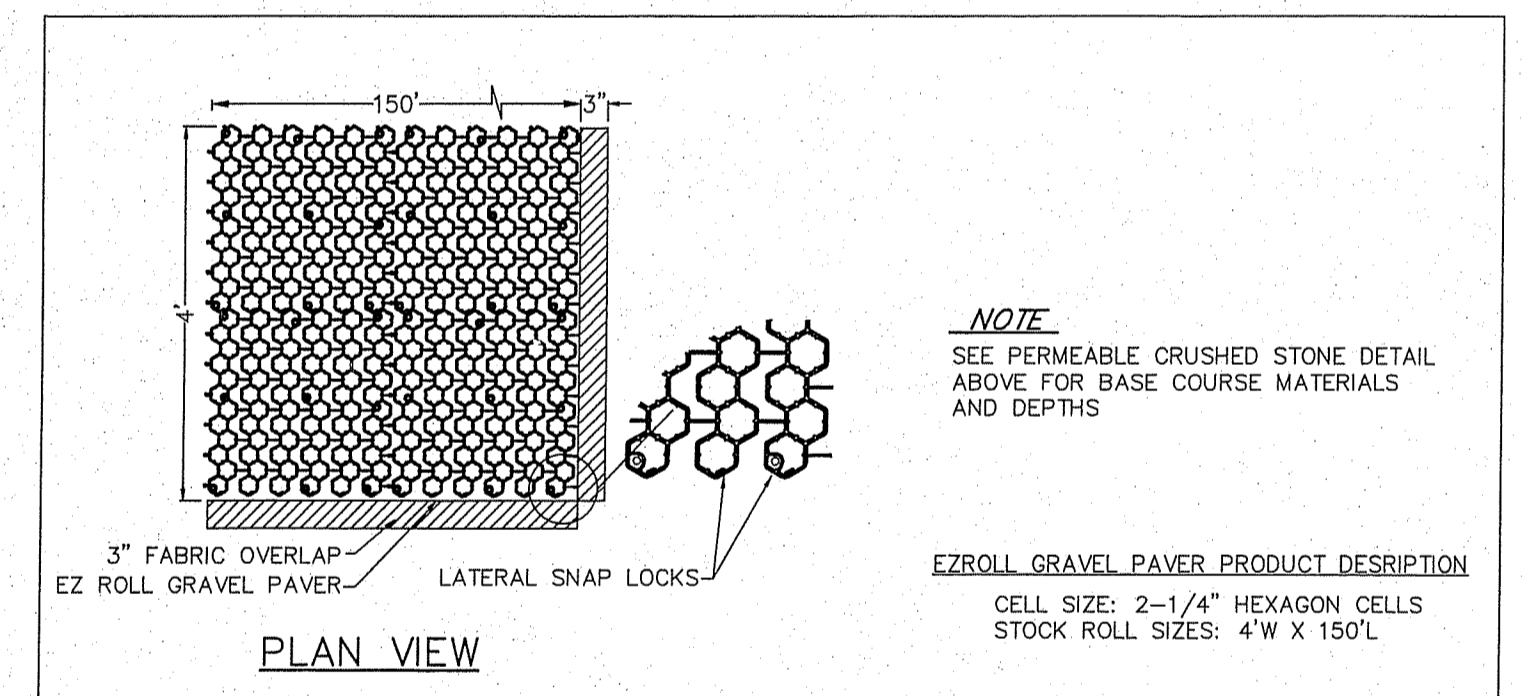
**PERMEABLE REINFORCED CRUSHED STONE DETAIL**

NOT TO SCALE

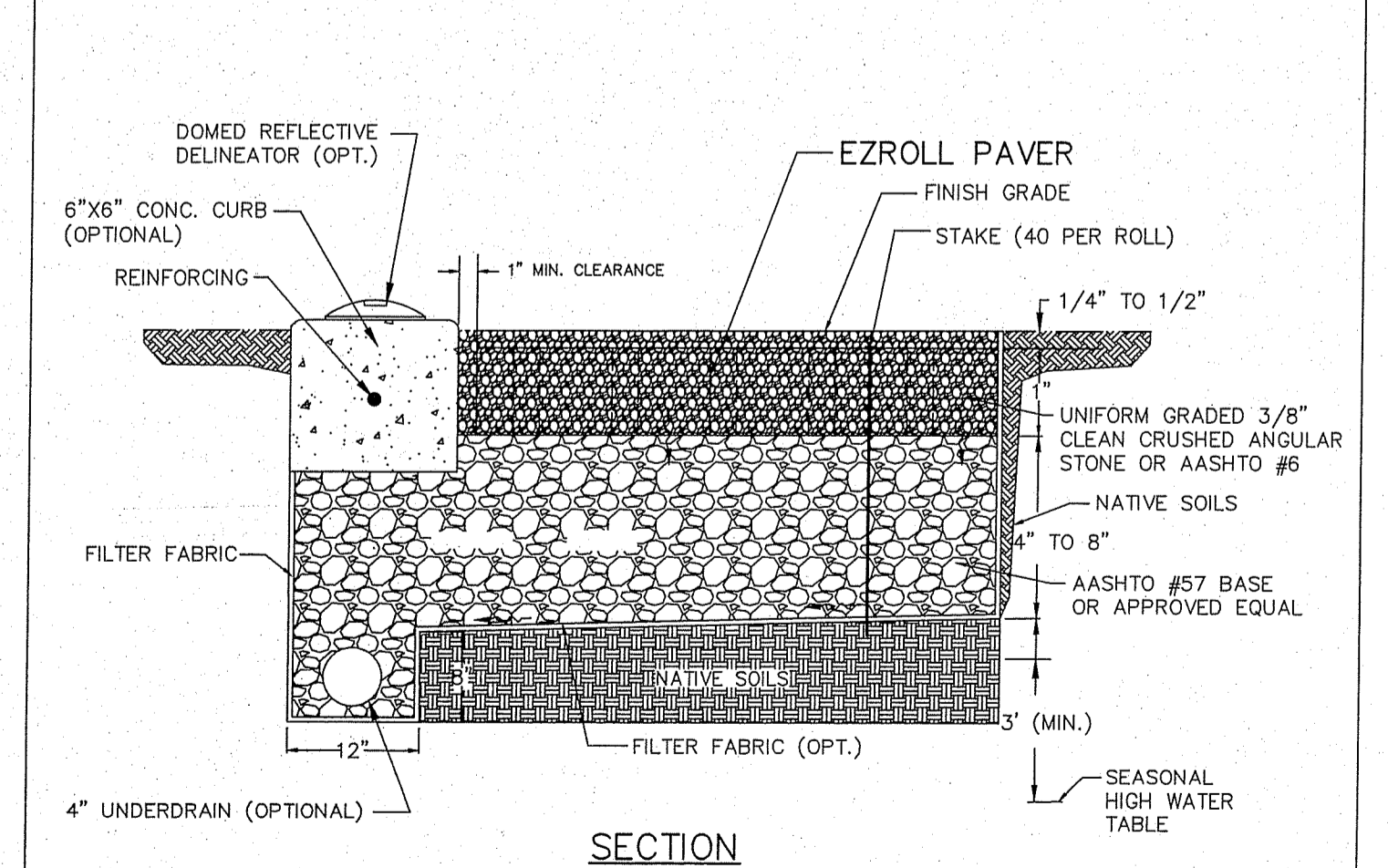


**POROUS ASPHALT PAVEMENT DETAIL**

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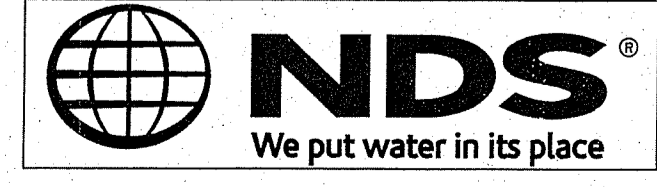


**PLAN VIEW**



**SECTION**

WWW.NDSPRO.COM 1-800-825-4716



**EZROLL ENGINEERED PERMEABLE PAVER GRAVEL SURFACE**

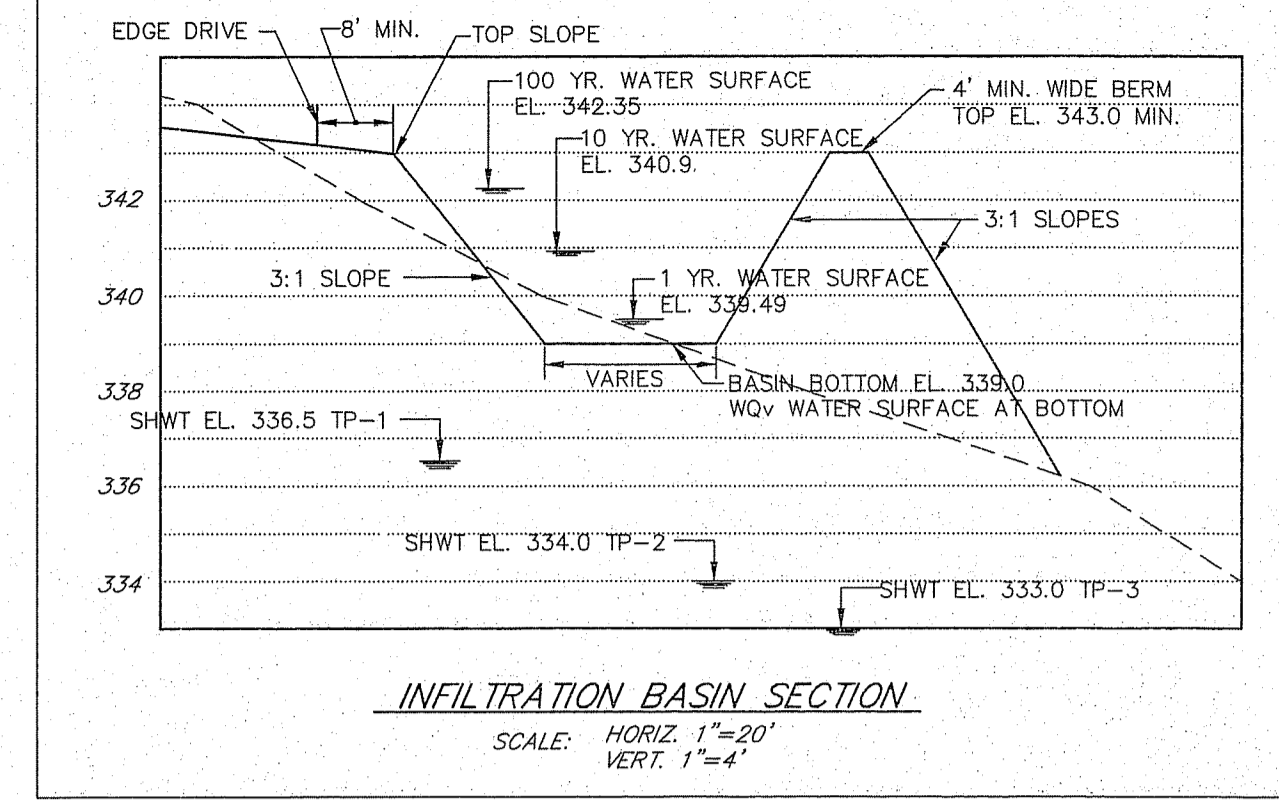
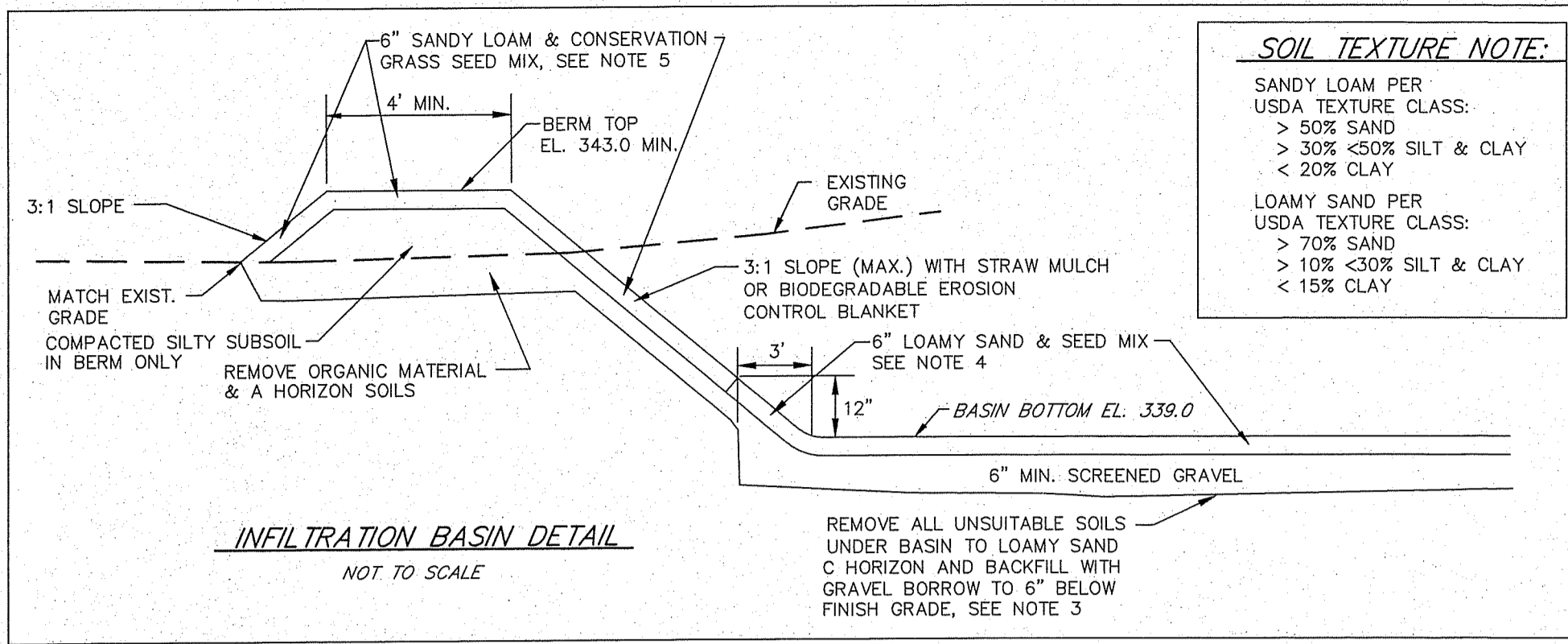
REVISION  
DATE: 6-9-20  
DEM FWM COMMENTS  
SCOTT F. MOOREHEAD  
No. 4288  
REGISTERED PROFESSIONAL ENGINEER

OWNER & APPLICANT  
BLUE WATER REALTY, LLC  
C/O JOHN SHERKORCHI, TRUSTEE  
152 OLD RIVER ROAD SUITE 103  
LINCOLN, RI 02865  
401-722-3600

TUG HOLLOW PLAT  
CONSERVATION DEVELOPMENT SUBDIVISION  
ASSESSOR'S PLAT ID: LOT 12  
POLE 6 TUG HOLLOW ROAD  
RICHMOND, RI

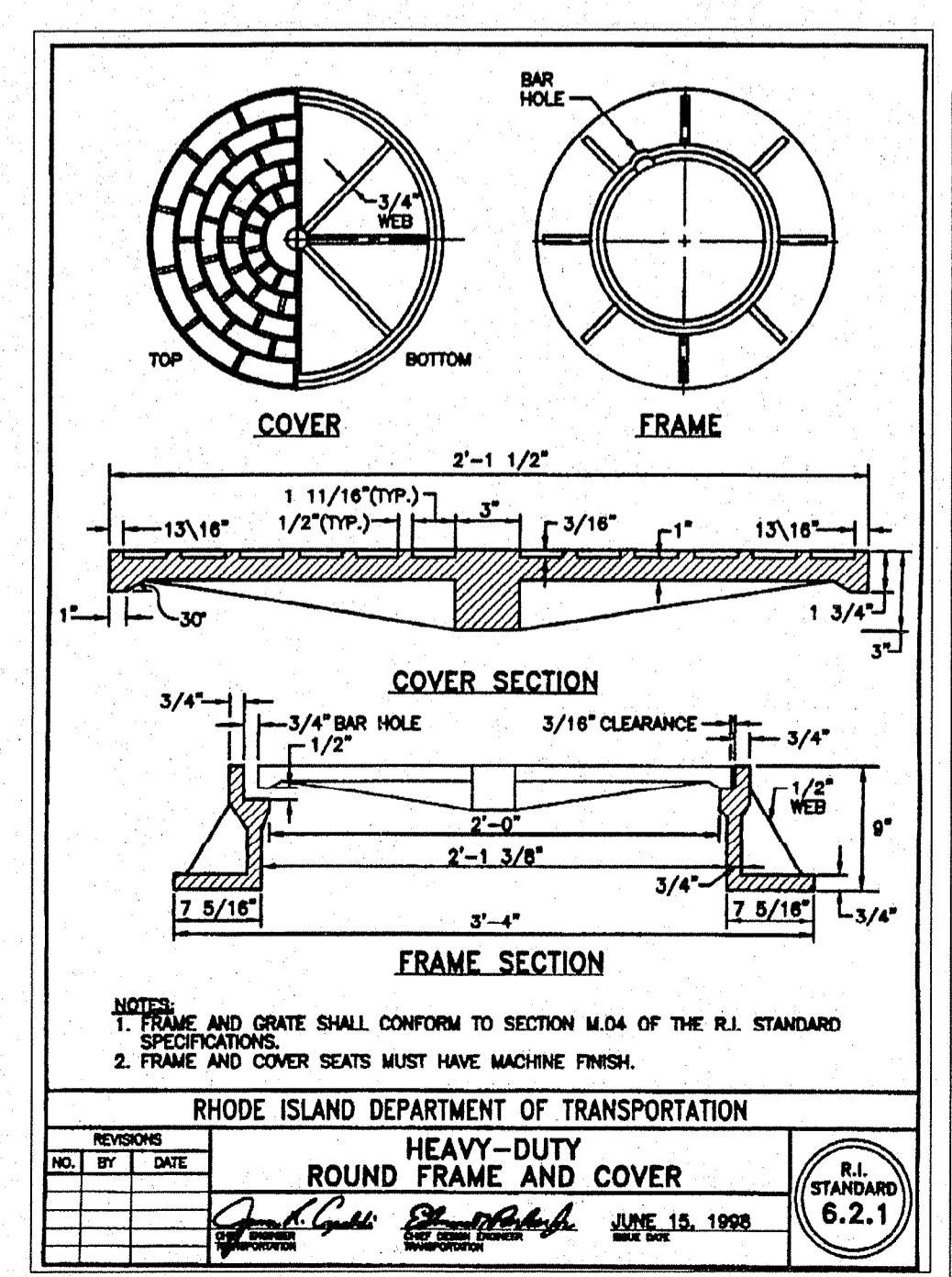
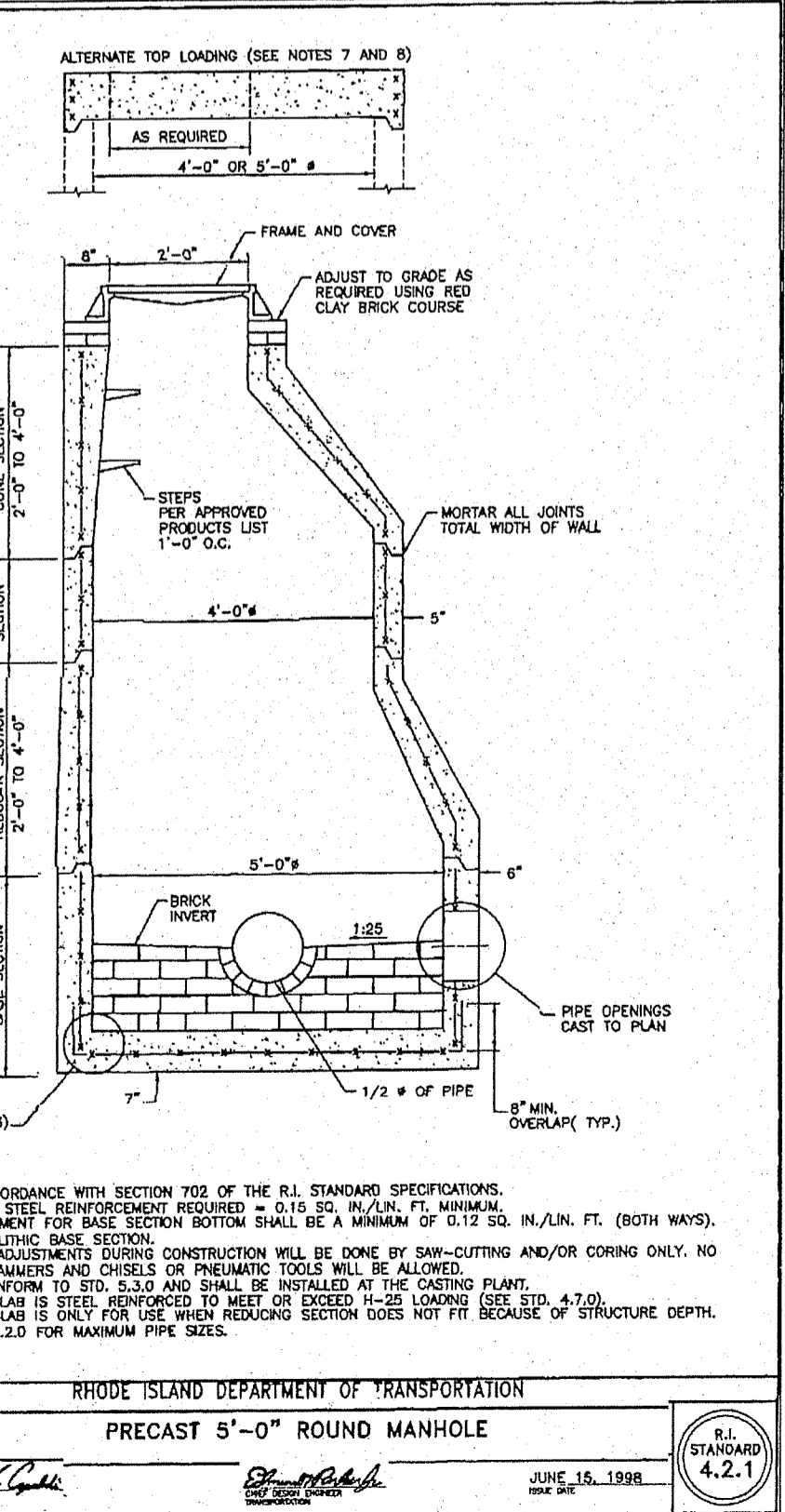
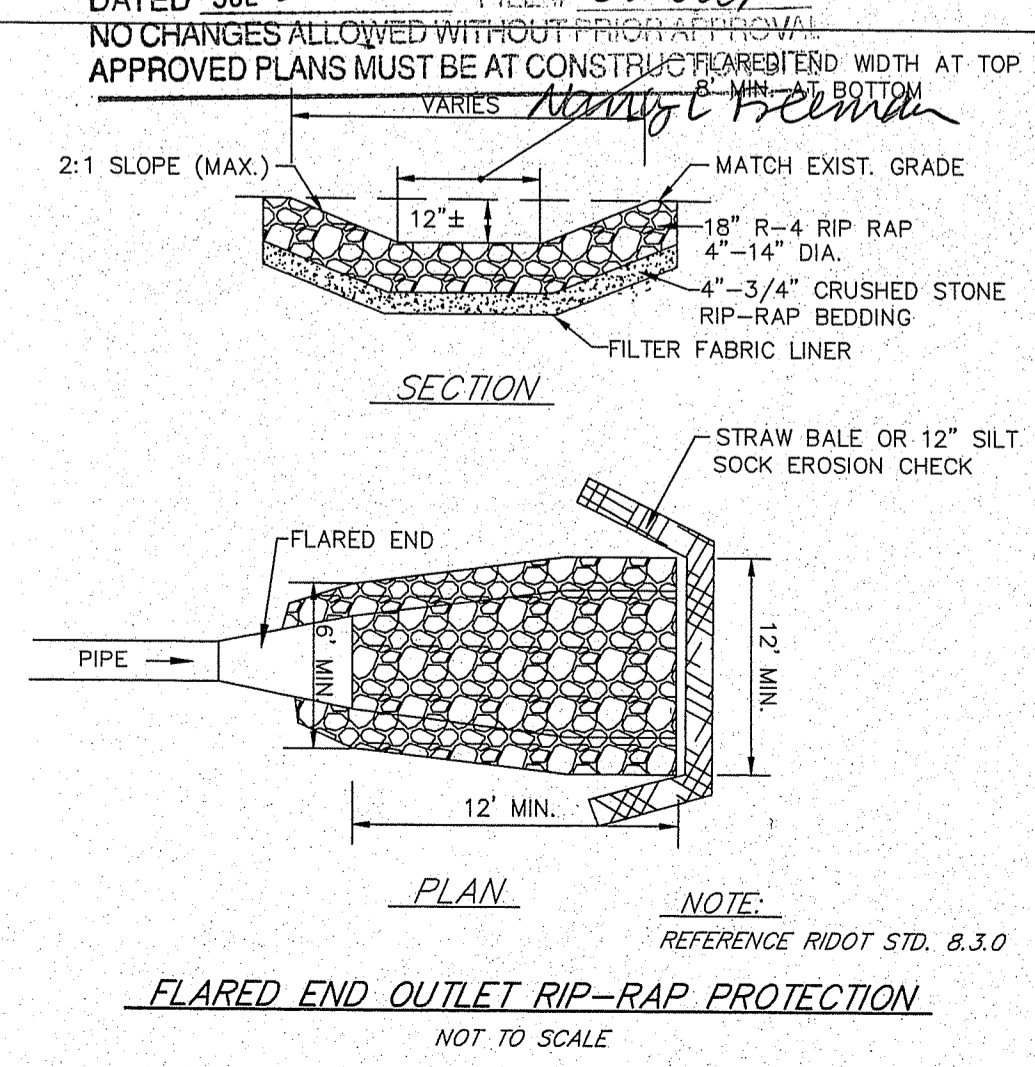
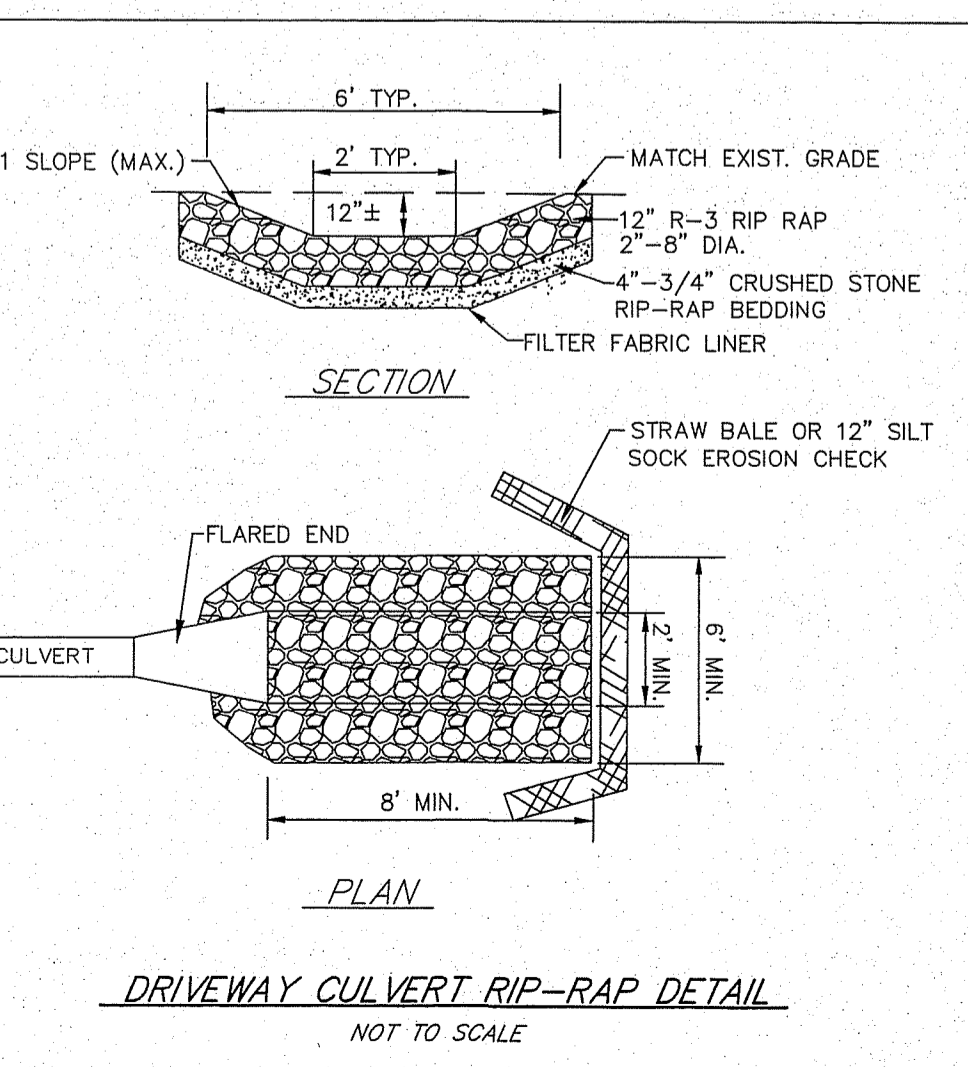
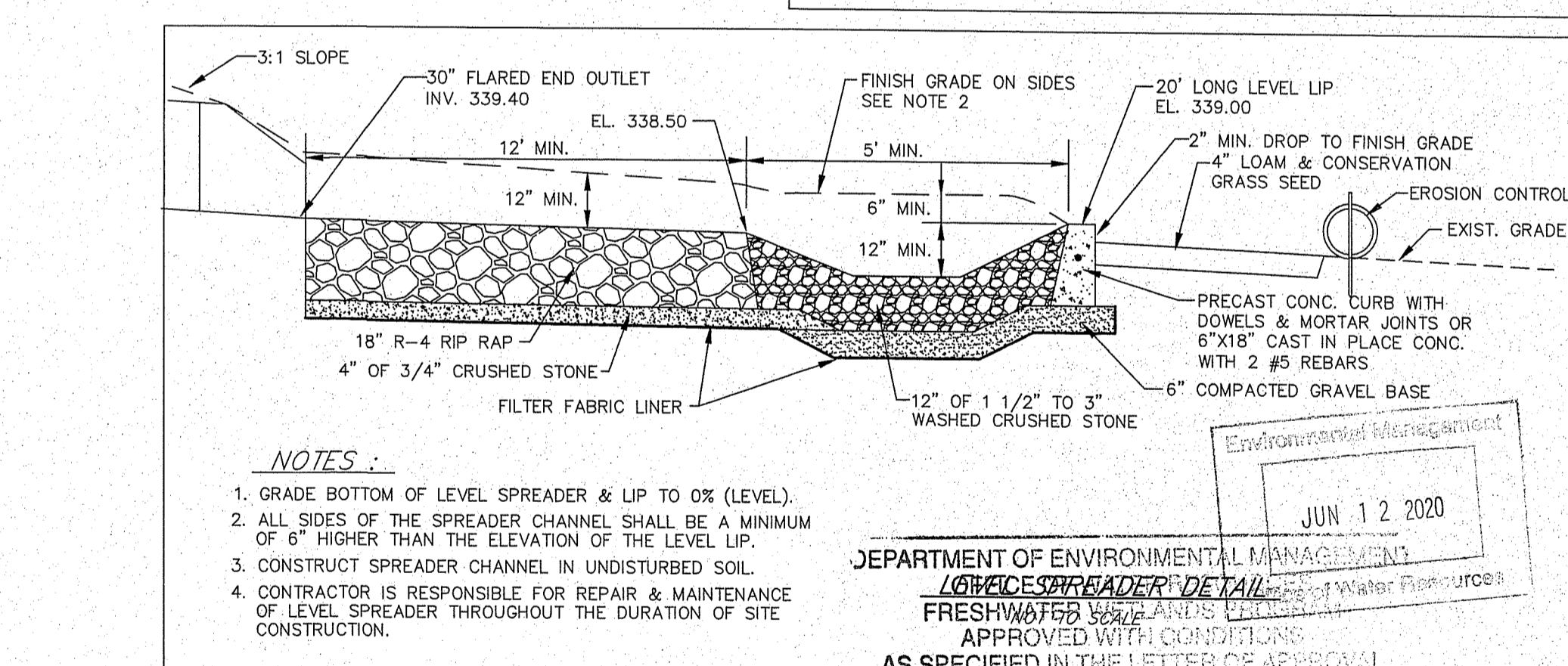
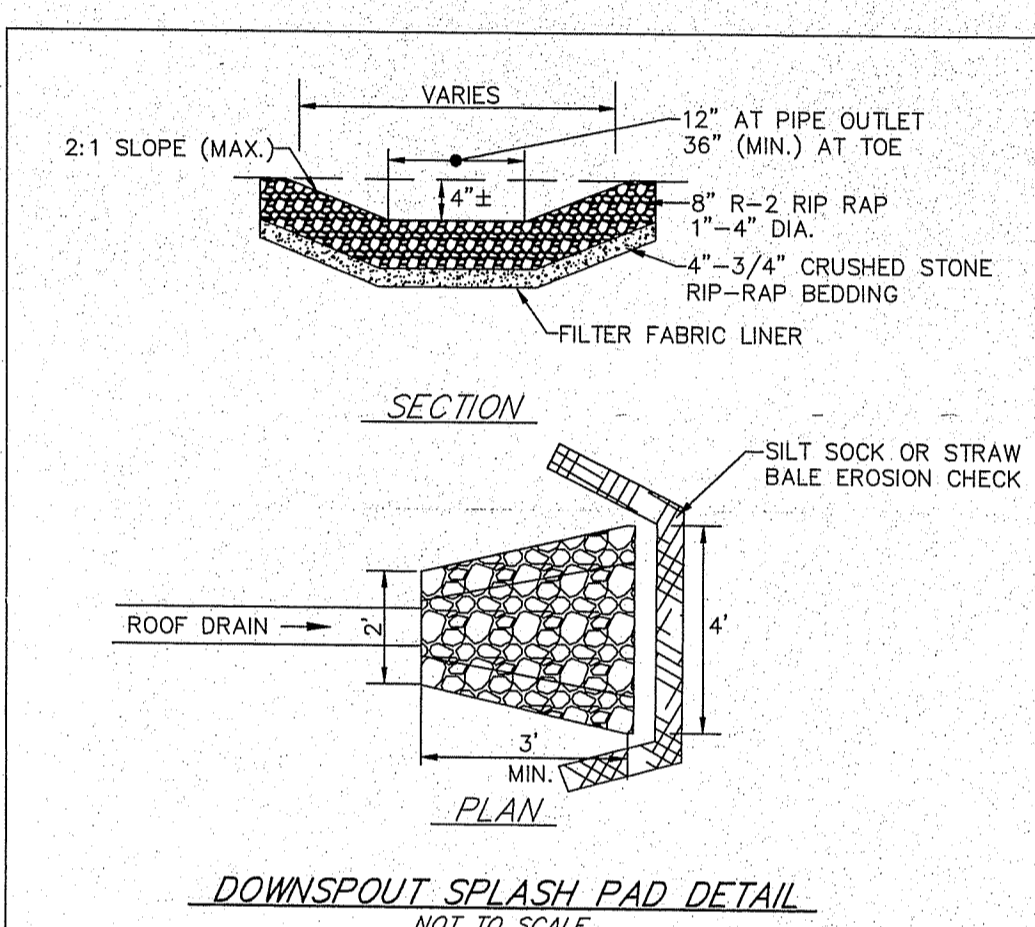
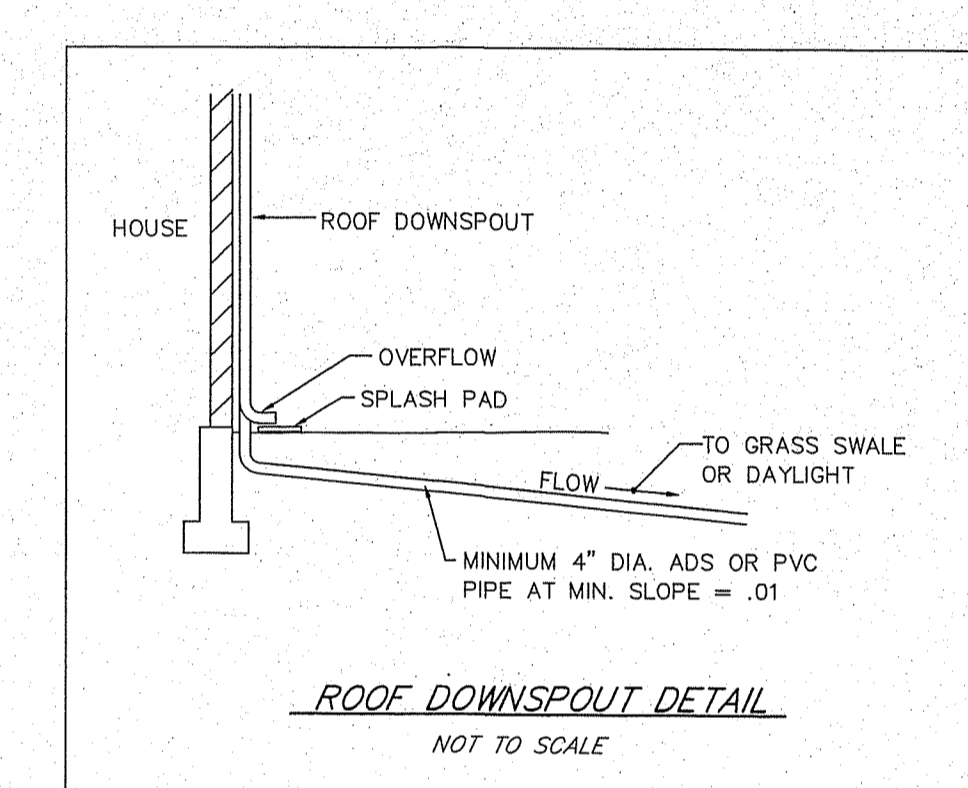
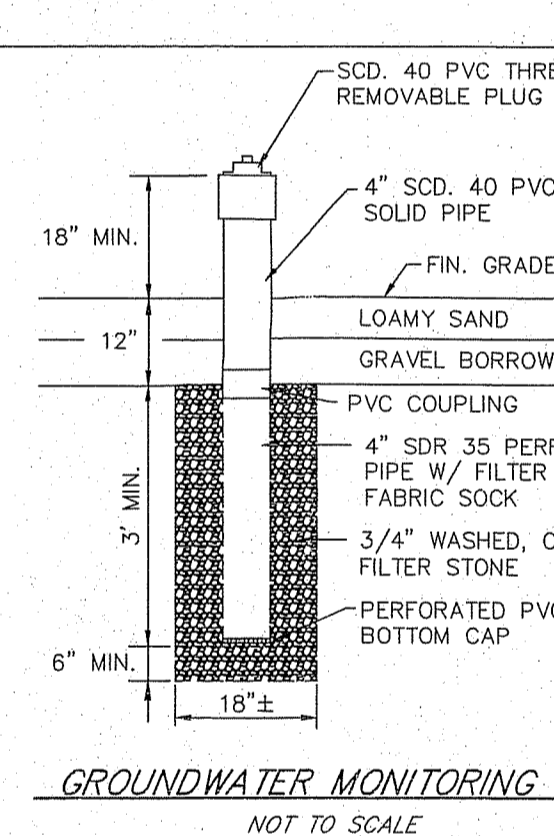
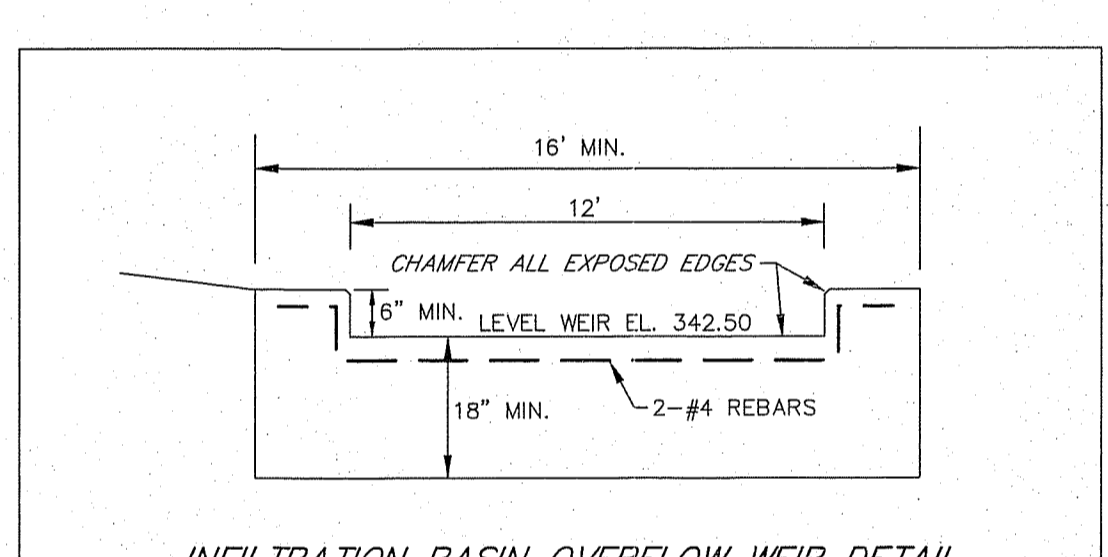
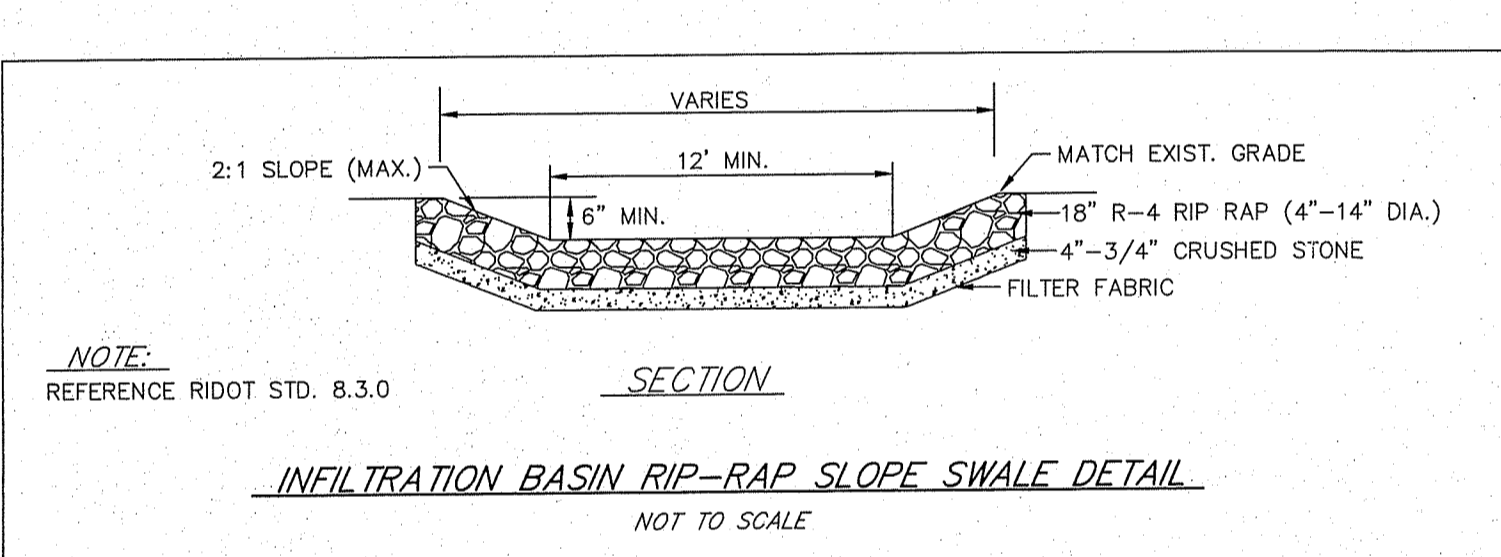
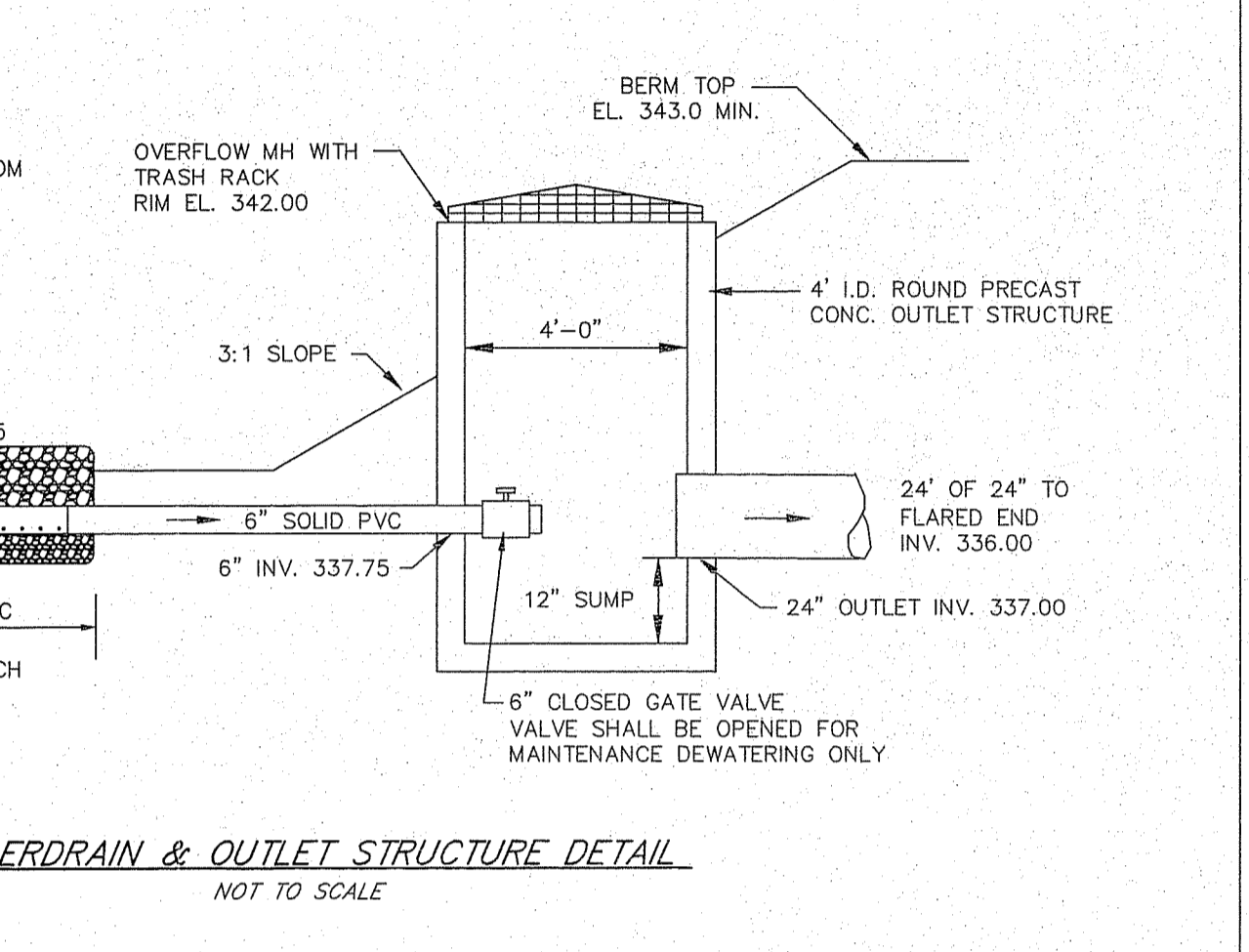
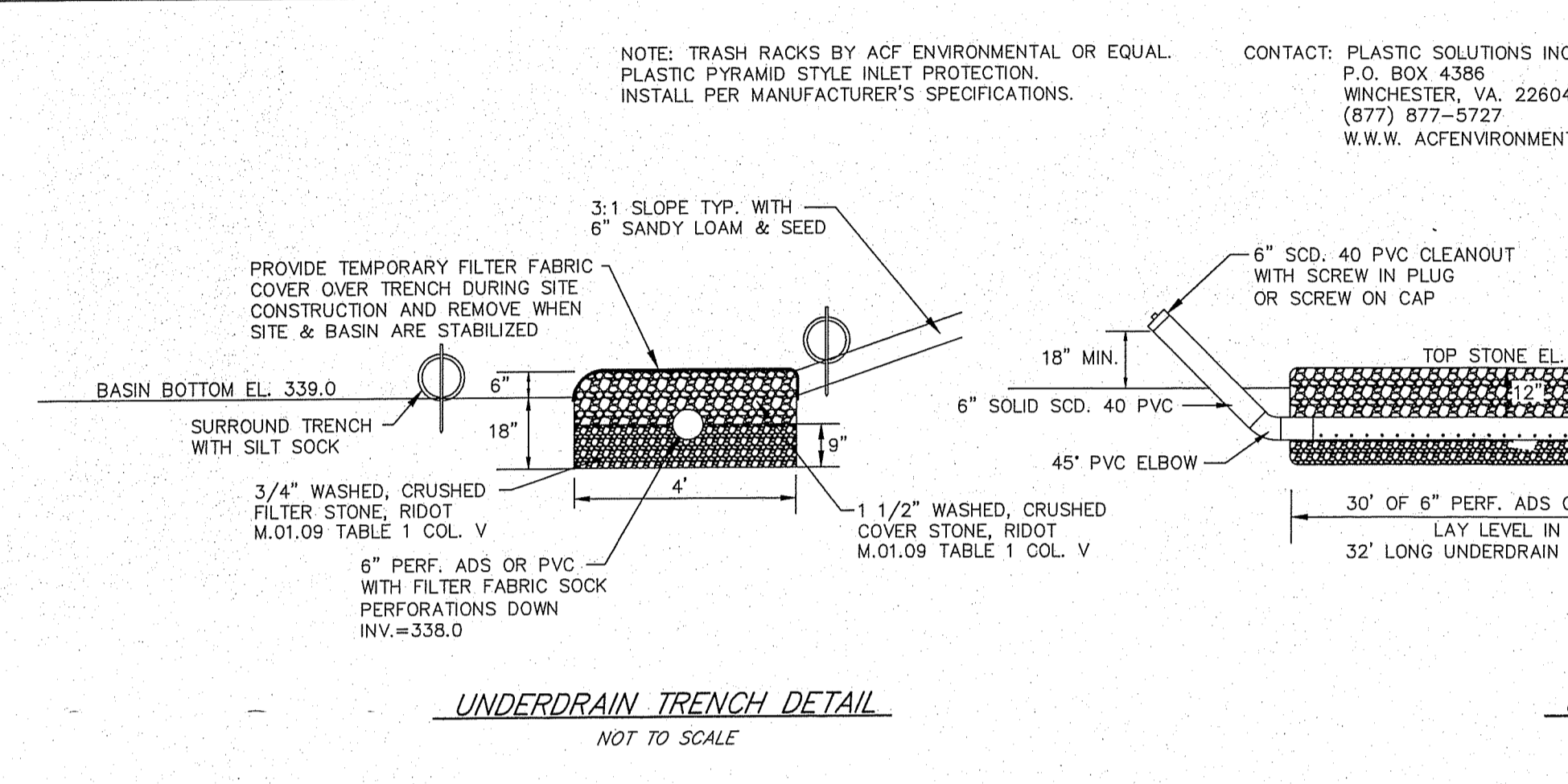
S.F.M. ENGINEERING ASSOCIATES  
410 TIOGUE AVENUE  
COVENTRY, RI 02816  
PHONE: 401-826-3736  
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SCOTT.SFM@ATLANTICBBB.NET

**SFM**  
DRN. BY: SFM  
CHK. BY: JZL  
SCALE: AS NOTED  
DATE: FEB. 5, 2020  
DWG: SFM878-PP-C  
SHEET 3 OF 5  
DEM PERMITTING SUBMISSION



- ### INFILTRATION BASIN CONSTRUCTION NOTES
- INSIDE AND OUTSIDE SLOPES OF BASINS SHALL BE 3:1 OR FLATTER.
  - INFILTRATION BASIN SHALL BE CONSTRUCTED AND STABILIZED PRIOR TO OTHER CONSTRUCTION. TEMPORARY DRAINAGE SHALL BE DIVERTED TO TEMPORARY SEDIMENT BASINS OR BYPASS SWALES.
  - ALL LOAM AND SUBSOIL SHALL BE STRIPPED FROM THE BASIN AREA. THE BOTTOM AREA AND 3 FEET AROUND SHALL BE EXCAVATED TO THE GRAVELY SUBSTRATE SOILS AT LEAST 12" BELOW THE FINISH BOTTOM GRADE. SCREENED GRAVEL SHALL BE PLACED AS REQUIRED TO BRING THE SUBGRADE TO 6" BELOW FINISH BOTTOM GRADE.
  - THE GRAVEL SUBGRADE SHALL BE COVERED WITH A 6" LAYER OF SOIL WITH A LOAMY SAND TEXTURE, LEVELED, HARROWED AND IMMEDIATELY HYDRO-SEEDED WITH NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR WET SITES OR EQUAL.
  - TOP AND SLOPES OF INFILTRATION BASIN SHALL HAVE A MINIMUM OF 6" SANDY LOAM AND SHALL BE SEEDED WITH NEW ENGLAND CONSERVATION/WILDLIFE MIX OR EQUAL AND MULCHED.
  - SEEDED SLOPES SHALL BE PROTECTED WITH EITHER SPREAD STRAW MULCH, ADHESIVE MULCH STABILIZER OR BIO-DEGRADABLE EROSION CONTROL BLANKET.
  - ONLY LIGHT EARTH MOVING EQUIPMENT ON TRACKS SHALL BE USED TO INSURE THAT THE BASIN BOTTOM IS NOT OVERLY COMPACTED.
  - THE CONTRACTOR SHALL MAINTAIN ADEQUATE EROSION AND SEDIMENT CONTROLS AT ALL TIMES TO INSURE NO SILTS ARE DEPOSITED IN THE INFILTRATION BASIN. THE INFILTRATION BASIN SHALL BE MAINTAINED IN ACCORDANCE WITH THE STORMWATER SYSTEM MAINTENANCE PLAN.
  - ACCUMULATED SILTS AND SEDIMENTS SHALL BE REMOVED IMMEDIATELY FROM THE BASIN AS REQUIRED DURING SITE CONSTRUCTION. AFTER EVERY RAIN EVENT AND IMMEDIATELY PRIOR TO LOAMING AND SEEDING.
  - UNDERDRAIN SHALL BE PROTECTED WITH STRAW BALE OR SILT SOCK EROSION CHECKS UNTIL PERMANENT STABILIZATION IS ESTABLISHED. ACCUMULATED SILTS SHALL BE REMOVED AND CRUSHED STONE ENVELOPE REPLACED AS REQUIRED.
  - INFILTRATION BASIN SHALL BE CONSTRUCTION STAKED BY THE PROJECT SURVEYOR TO INSURE ACCURATE LOCATION AND ELEVATION. THE PROJECT SURVEYOR SHALL AS-BUILT SURVEY THE BASINS PRIOR TO SEEDING AND PROVIDE A REPORT TO S.F.M. ENGINEERING. ANY DISCREPANCIES SHALL BE CORRECTED PRIOR TO SEEDING.

- ### STORMWATER SYSTEM MAINTENANCE PLAN
- THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE STORMWATER SYSTEM PROTECTION, INSPECTION AND MAINTENANCE PRIOR TO, DURING AND POST CONSTRUCTION UNTIL FINAL ACCEPTANCE OF CONSTRUCTION BY THE OWNER.
  - GRASS SWALES SHALL BE MAINTAINED ACCORDING TO THE FOLLOWING SCHEDULE:
    - THE GRASS IN THE SWALES (BOTTOM & SLOPES) SHALL BE MOWED AT LEAST THREE (3) TIMES BETWEEN THE MONTHS OF MAY AND OCTOBER. MOWED HEIGHT OF VEGETATION SHALL NOT BE LESS THAN TWO INCHES AND THE MAXIMUM HEIGHT OF VEGETATION SHALL BE 18 INCHES.
    - THE SWALES SHALL BE KEPT CLEAN OF SILT AND DEBRIS. THE SWALES SHALL BE CLEANED AT THE THREE (3) MOWINGS AND ONCE DURING THE WINTER MONTHS.
  - THE INFILTRATION BASIN SHALL BE MAINTAINED ACCORDING TO THE FOLLOWING SCHEDULE:
    - THE BASIN AND STRUCTURES SHALL BE INSPECTED AT LEAST TWICE PER YEAR.
    - SOIL EROSION GULLIES SHALL BE REPAIRED WHEN THEY OCCUR.
    - THE GRASS IN THE INFILTRATION BASIN BOTTOM AND SLOPES SHALL BE MOWED AT LEAST THREE (3) TIMES BETWEEN THE MONTHS OF MAY AND OCTOBER. MOWED HEIGHT OF VEGETATION SHALL NOT BE LESS THAN TWO INCHES. THE MAXIMUM HEIGHT OF VEGETATION SHALL BE 12" INCHES.
    - DEBRIS AND GRASS CLIPPINGS SHALL BE REMOVED FROM THE INFILTRATION BASIN AT THE TIME OF INSPECTIONS AND MOWING.
    - SILT AND DEBRIS SHALL BE REMOVED WHEN THE ACCUMULATION EXCEEDS ONE INCH.
  - SHOULD THE INFILTRATION CAPACITY OF THE INFILTRATION BASIN DECREASE OVER TIME SUCH THAT STANDING WATER REMAINS FOR MORE THAN 72 HOURS AFTER A RAINFALL EVENT, REMEDIATION SHALL BE REQUIRED. REMEDIATION SHALL INCLUDE AT A MINIMUM, SEDIMENT REMOVAL, HARROWING AND RESEEDING OF THE BASIN BOTTOM AFTER DEWATERING THE BASIN. AFTER REMEDIATION A QUALIFIED MATERIALS TESTING FIRM SHALL PERFORM INFILTRATION TESTS TO INSURE DESIGN INFILTRATION RATES ARE RESTORED.
  - ANY INADVERTENT OR DELIBERATE DISCHARGE OF WASTE OIL OR ANY OTHER POLLUTANT TO THE STORMWATER DISPOSAL SYSTEM REQUIRES IMMEDIATE NOTIFICATION OF RI DEM.
  - ANY INCIDENT OF GROUNDWATER CONTAMINATION RESULTING FROM THE IMPROPER DISCHARGE OF CONTAMINANTS TO THE DISPOSAL SYSTEM SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER. THE RIEM WILL REQUIRE THE PROPERTY OWNER TO REMEDIATE ANY INCIDENTS THAT MAY ADVERSELY IMPACT GROUNDWATER QUALITY.
  - UPON FINAL ACCEPTANCE OF THE CONSTRUCTION, THE OWNER OR HOMEOWNERS ASSOCIATION SHALL BE RESPONSIBLE FOR INSPECTION & MAINTENANCE OF THE COMMON DRIVE, DRAIN PIPES, OUTLET STRUCTURES, GRASS SWALES AND INFILTRATION BASIN.



### FLARED END SECTIONS

NOTE: ALL DIMENSIONS ARE NOMINAL

PART #	PIPE SIZE	A	B(MAX)	H	L	W
1210NP	12 in (300 mm)	6.5 in (165 mm)	10.0 in (254 mm)	8.5 in (215 mm)	25.0 in (635 mm)	29.0 in (737 mm)
1510NP	15 in (375 mm)	7.5 in (191 mm)	11.0 in (279 mm)	9.5 in (241 mm)	32.0 in (813 mm)	35.0 in (889 mm)
1810NP	18 in (450 mm)	8.5 in (215 mm)	12.0 in (305 mm)	10.5 in (267 mm)	40.0 in (1016 mm)	45.0 in (1143 mm)
2410NP	24 in (600 mm)	11.0 in (279 mm)	15.0 in (381 mm)	13.0 in (330 mm)	50.0 in (1270 mm)	55.0 in (1400 mm)
3015NP	30 in (750 mm)	13.0 in (330 mm)	18.0 in (457 mm)	15.0 in (381 mm)	60.0 in (1524 mm)	65.0 in (1651 mm)
3615NP	36 in (900 mm)	15.0 in (381 mm)	21.0 in (533 mm)	18.0 in (457 mm)	70.0 in (1778 mm)	75.0 in (1905 mm)

REVISION: 6-8-20  
DATE: 6-8-20  
DESI F.W. COMMENTS

OWNER & APPLICANT: BLUE WATER REALTY, LLC  
C/O JOHN SHEKARCHI, TRUSTEE  
132 OLD RIVER ROAD SUITE 103  
LINCOLN, RI 02865  
401-722-3600

TUG HOLLOW PLAT  
CONSERVATION DEVELOPMENT SUBDIVISION  
ASSESSOR'S PLAT ID LOT 12  
POLE 6 TUG HOLLOW ROAD  
RICHMOND, RI

DRAINAGE DETAILS & NOTES

S.F.M. ENGINEERING ASSOCIATES  
410 TIOGUE AVENUE  
COVENTRY, RI 02816  
PHONE: 401-826-3736  
FAX: 401-826-1711  
SCOTT.SFM@ATLANTICB.NET

SCOTT F. MOOREHEAD  
REGISTERED PROFESSIONAL ENGINEER  
No. 4298

DRN. BY: SFM  
CHK. BY: JZL  
SCALE: AS NOTED  
DATE: FEB. 5, 2020  
DWG: SFM878-DD-C  
SHEET 4 OF 5  
DEM PERMITTING SUBMISSION

EROSION CONTROL NOTES

- 1. STRAW BALE, SILT SOCK OR SILT FENCE EROSION CHECKS SHALL BE INSTALLED AND MAINTAINED AT ALL DOWNGRADIENT LIMITS OF DISTURBANCE FOR DRIVEWAY AND SITE DISTURBANCE PRIOR TO CONSTRUCTION OR EXCAVATION.
2. OWTS LEACHFIELD, INFILTRATION BASIN & SWALE AREAS SHALL BE PHYSICALLY DELINEATED PRIOR TO THE START OF CONSTRUCTION AND SHALL BE PROTECTED WITH BARRIERS TO PREVENT COMPACTION OF THESE AREAS.
3. A CONSTRUCTION ENTRANCE PAD SHALL BE INSTALLED AT THE COMMENCEMENT OF SITE CLEARING. CONSTRUCTION ENTRANCE SHALL BE MAINTAINED UNTIL THE COMMON DRIVEWAY IS COMPLETE AND THE SITE STABILIZED.
4. THE TOTAL AREA OF SITE DISTURBANCE IS APPROXIMATELY 3.45 ACRES. THE INITIAL PHASE OF CONSTRUCTION WILL ONLY INCLUDE SITE WORK FOR THE COMMON DRIVEWAY & DRAINAGE INSTALLATION WHICH WILL INVOLVE APPROXIMATELY 1.5 ACRES OF SITE DISTURBANCE. BUILDING CONSTRUCTION WILL NOT COMMENCE UNTIL THE COMMON DRIVE AND DRAINAGE SYSTEM ARE COMPLETE AND STABILIZED.
5. THE SITE CONTRACTOR SHALL PROVIDE TEMPORARY EROSION CONTROLS ALONG THE FLOW PATH TO THE INFILTRATION BASIN TO REDUCE FLOW VELOCITY AND TO PREVENT EXCESS SEDIMENT TRANSPORT. SUCH CONTROLS SHALL INCLUDE DIVERSION BERMS, STRAW BALES, SILT SOCKS, DITCH EROSION CHECKS AND TEMPORARY GROUND COVER.
6. CONSTRUCTION ENTRANCE PADS SHALL BE INSTALLED AT THE COMMENCEMENT OF SITE CLEARING FOR INDIVIDUAL LOTS. CONSTRUCTION ENTRANCE SHALL BE MAINTAINED UNTIL THE LOT IS STABILIZED AND READY FOR DRIVEWAY INSTALLATION.

GENERAL NOTES

- 1. ALL WORK PERFORMED HEREIN SHALL BE GOVERNED BY THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (REVISION OF 12-2010) WITH ALL CORRECTIONS AND ADDENDA AND THE 12-1-2010 R.I. STANDARD DETAILS WITH ALL CORRECTIONS AND ADDENDA.
2. EMBANKMENT SLOPES AND ALL DISTURBED AREAS ARE TO RECEIVE 4" OF TOPSOIL AND SEED. SEE EROSION CONTROL PROGRAM.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS.
4. IN ALL EXCAVATION AND REPLACEMENT OF FILL, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE R.I. STANDARD SPECIFICATION SECTION 202.
5. ALL EXCESS SOIL, STUMPS, TREES, ROCKS, BOULDERS AND OTHER REFUSE SHALL BE DISCARDED OFF SITE OUTSIDE OF ALL WETLANDS AND WETLANDS SETBACK AREAS UNLESS OTHERWISE SPECIFIED.
6. CONSTRUCTION WASTE SHALL BE COLLECTED, REMOVED AND DISPOSED OF OFFSITE IN ACCORDANCE WITH ALL STATE AND TOWN REQUIREMENTS. TRASH SHALL BE COLLECTED ROUTINELY AND REMOVED FROM SITE FOR DISPOSAL.
7. A SOIL AND EROSION CONTROL PERMIT WILL BE REQUIRED FROM THE TOWN OF RICHMOND. INSPECTIONS SHALL BE SCHEDULED AS REQUIRED.
8. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF ALL RI DEM AND TOWN REGULATIONS AND PERMITS.

EROSION CONTROL & SOIL STABILIZATION PROGRAM

- 1. DENUDED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
2. ALL DISTURBED SLOPES, EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15, SHALL BE SEEDED OR PROTECTED BY THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
3. THE TOP SOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM WITH R.I. STANDARD SPECIFICATION M. 20.
4. THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
5. SEEDING SPECIFICATIONS SHALL BE IN ACCORDANCE WITH THE LANDSCAPE ARCHITECT'S PLANS. FOR AREAS NOT DESIGNATED BY THE L.A., THE DESIGN MIX SHALL COMPLY WITH THE FOLLOWING:
A. MOWED AREA (ALL FLATS OR SLOPES LESS THAN 3:1)
MIXTURE: CREEPING RED FESCUE 70, KENTUCKY BLUEGRASS 15, COLONIAL BENTGRASS 5, PERENNIAL RYEGRASS 10, TOTAL 150 LBS/AC. SEEDING DATES: APRIL 1-MAY 31, AUG. 15-OCT. 15.
B. UNMOWED AREA OR INFREQUENTLY MOWED (FLAT OR SLOPES GREATER THAN 3:1)
MIXTURE: CREEPING RED FESCUE 60, COLONIAL BENTGRASS 5, PERENNIAL RYEGRASS 10, BIRDSEED TREFOIL 15, TOTAL 150 LBS/AC. SEEDING DATES: APRIL 1-MAY 31, AUG. 15-OCT. 15.
C. CONSERVATION SEEDING AREAS
MIXTURE: SWITCH GRASS 20, LITTLE BLUE STEM 20, PERENNIAL RYEGRASS 20, WILDFLOWER MIX 20, HARD FESCUE 20, TOTAL 60 LBS/AC. SEEDING DATES: APRIL 1-MAY 31, AUG. 15-OCT. 15.
OR NEW ENGLAND CONSERVATION/RESTORATION MIX (FOR DRY OR WET SITES AS APPROPRIATE) BY NEW ENGLAND WETLAND PLANTS, INC.
OR NEW ENGLAND CONSERVATION/WILDLIFE MIX BY NEW ENGLAND WETLAND PLANTS, INC.
6. TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELISOR BLANKETS) THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
7. HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 3,000-4,000 LBS/AC.
8. ALL STRAW BALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED. IF NEEDED, TEMPORARY SEEDING CAN HELP TO MINIMIZE EROSION. A TEMPORARY SEEDING GUIDE MUST BE INCLUDED AS A REFERENCE. THE FOLLOWING SPECIES ARE RECOMMENDED:
SPECIES: ANNUAL RYEGRASS 1.0 - 1.5, PERENNIAL RYEGRASS 1.0 - 1.5, SUDAN GRASS 0.7 - 1.0, MILLET 0.7 - 1.0, WINTER RYE 3.0. LBS./1,000 S.F. 40 - 60, 40 - 60, 30 - 40, 30 - 40, 120. LBS./AC. SEEDING DATES: 3/1 - 6/1, 3/1 - 6/1, 5/15 - 6/15, 5/15 - 6/15, 4/15 - 6/15.
OR RI DOT TEMPORARY SEED MIX AT 75 LBS/AC.
9. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE.
10. THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1 - OCTOBER 15.
11. ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE R.I.D.P.W. STD. SPECIFICATIONS SECTION 202.
12. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 15 DAYS OF FINAL GRADING.
13. STOCKPILES OF TOPSOILS SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 30% AND STOCKPILES SHALL ALSO BE SEEDED AND/OR STABILIZED.
14. ON BOTH STEEP AND LONG SLOPES, CONSIDERATION SHOULD BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.
15. REFERENCE THE SEDIMENTATION CONTROL PROGRAM AND ORDER OF PROCEDURE FOR PROPER COORDINATION.

SEDIMENTATION CONTROL PROGRAM

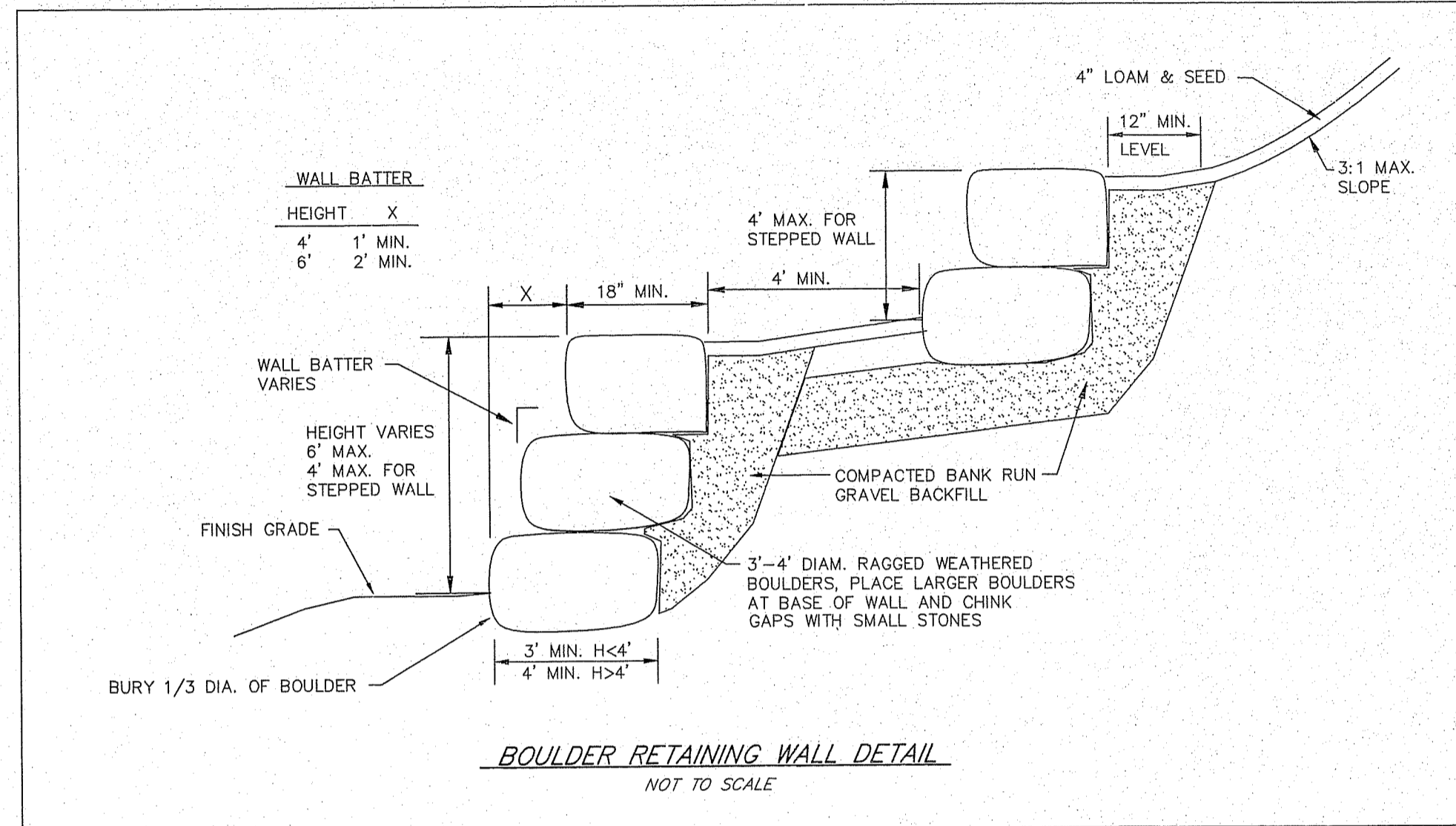
- 1. EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY SEDIMENTS FROM ENTERING THE WETLANDS OR ADJOINING PROPERTIES.
2. BANKS OR SLOPES OVER 5 PERCENT SHALL BE SEEDED AS SOON AS POSSIBLE AND SHALL BE PROTECTED WITH A HAY, STRAW OR FIBER MULCH.
3. DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
4. SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.
5. CARE SHALL BE TAKEN SO NOT TO PLACE "REMOVED SEDIMENTS" WITHIN THE PATH OF EXISTING, NEWLY CREATED (BOTH TEMPORARY AND PERMANENT) OR PROPOSED WATERCOURSES OR THOSE AREAS SUBJECT TO STORM WATER FLOW.
6. ADDITIONAL STRAW BALES, SILT FENCE OR SILT SOCKS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.
7. REFERENCE THE "R.I. EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE RI STATE CONSERVATION COMMITTEE, ISSUED 1989 REVISED 2014, AS A GUIDE.

ORDER OF PROCEDURE

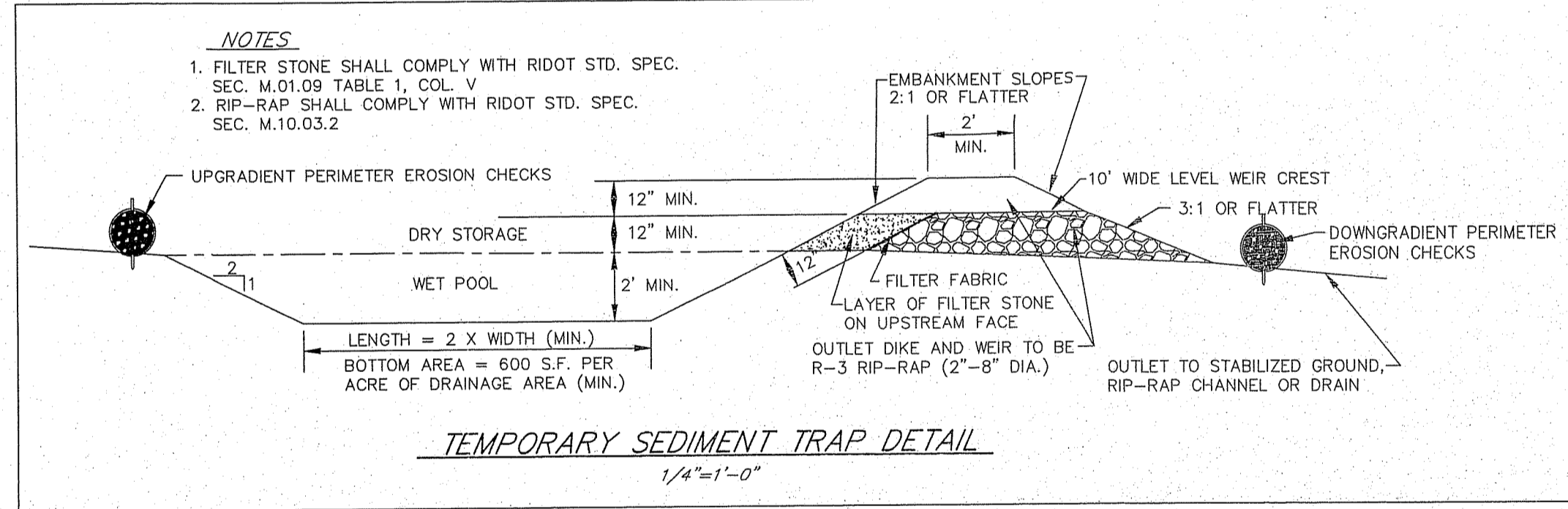
- 1. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OR EXCAVATION, THE SITE CONTRACTOR SHALL PHYSICALLY MARK THE ENTIRE LIMIT OF DISTURBANCE. EROSION CHECKS SHALL BE ESTABLISHED AT ALL DOWN GRADIENT LIMITS OF DISTURBANCE AND AS DEPICTED ON THE SITE PLANS. TEMPORARY EROSION CHECKS SHALL BE INSTALLED AT LIMIT OF WORK ACTIVITY IF CONSTRUCTION IS TO BE DONE IN PHASES. EROSION CHECKS CONSIST OF STRAW BALES, SILT FENCE OR SILT SOCKS.
2. SITE CONTRACTOR SHALL PROVIDE A BARRIER AROUND THE SAND FILTER AND INFILTRATION BASIN AREAS TO PROTECT THEM FROM SOIL COMPACTION.
3. ONLY AREAS THAT CAN BE REASONABLY EXPECTED TO HAVE ACTIVE CONSTRUCTION WORK BEING PERFORMED WITHIN 14 DAYS OF DISTURBANCE SHALL BE GRUBBED AT ONE TIME. IF CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED FOR MORE THAN 14 DAYS, STABILIZATION PRACTICES SHALL BE INITIATED. REFERENCE THE EROSION CONTROL & SEDIMENTATION PROGRAMS FOR TEMPORARY CONTROLS.
4. ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE PERIODICALLY MAINTAINED AS PER THE RESPECTIVE PROGRAMS FOR TEMPORARY CONTROL.
5. EROSION CHECKS ALONG AND AT THE ENDS OF ROADWAYS MAY ALSO BE REMOVED AFTER FINAL SOIL STABILIZATION HAS BEEN ACHIEVED AND APPROVED.
6. EROSION CHECKS LOCATED AT DRAINAGE INLETS OR OUTLETS MUST REMAIN UNTIL SUCH TIME THAT A DESIRABLE STAND OF GRASS OR GROUND COVER HAS BEEN ESTABLISHED AND THE PROJECT RECEIVES A FAVORABLE APPROVAL FOR FINAL ACCEPTANCE FROM THE ENGINEER.
7. NON-BIODEGRADABLE EROSION CONTROLS, SUCH AS SILT FENCE, MUST BE REMOVED FROM THE SITE WHEN THEY ARE NO LONGER FUNCTIONAL OR REQUIRED FOR SEDIMENT CONTROL.

NOTE

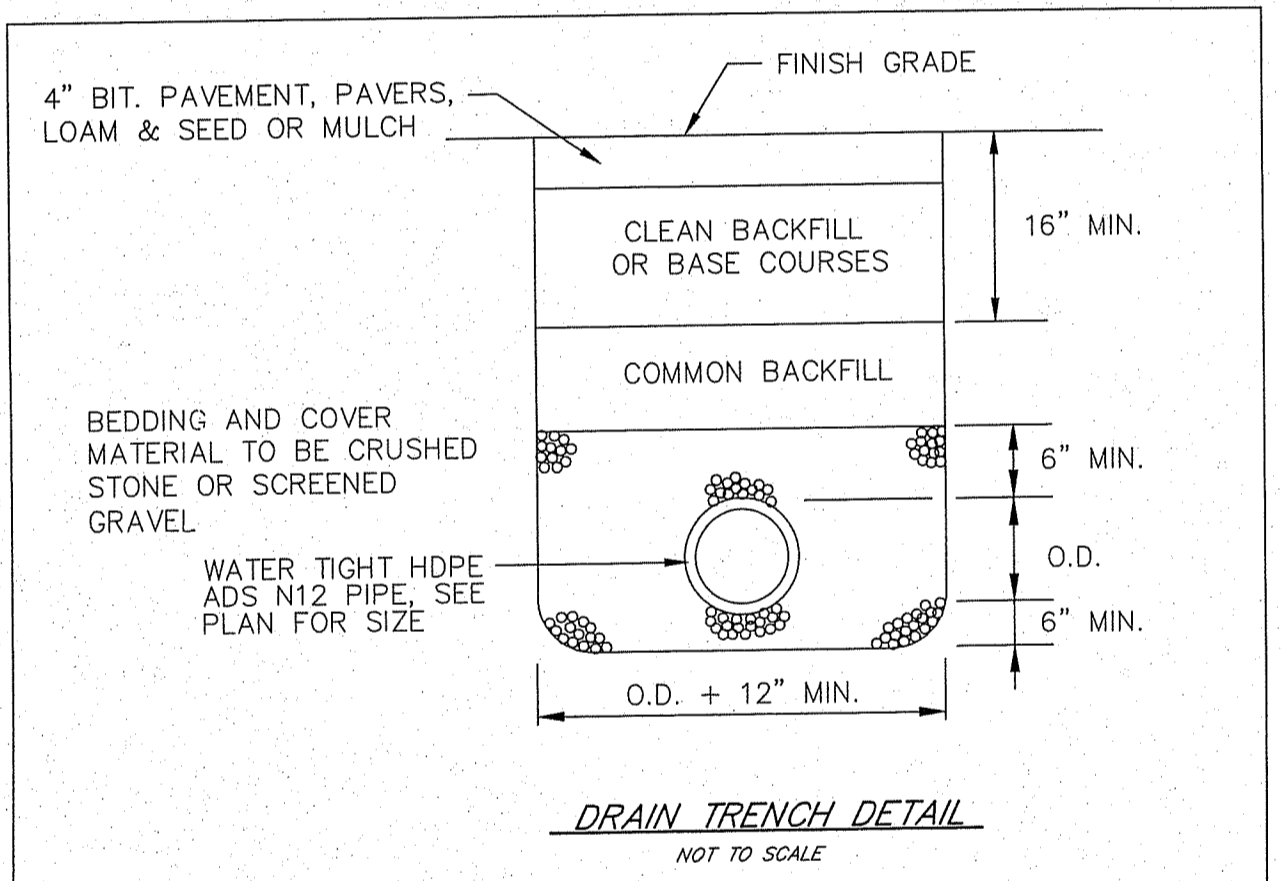
BALED HAY SHALL ONLY BE USED FOR SHORT TERM EROSION CONTROL OF THREE MONTHS OR LESS. PERIMETER EROSION CONTROLS SHALL BE STRAW BALE, SILT FENCE, SILT SOCK OR COMBINATION THEREOF.



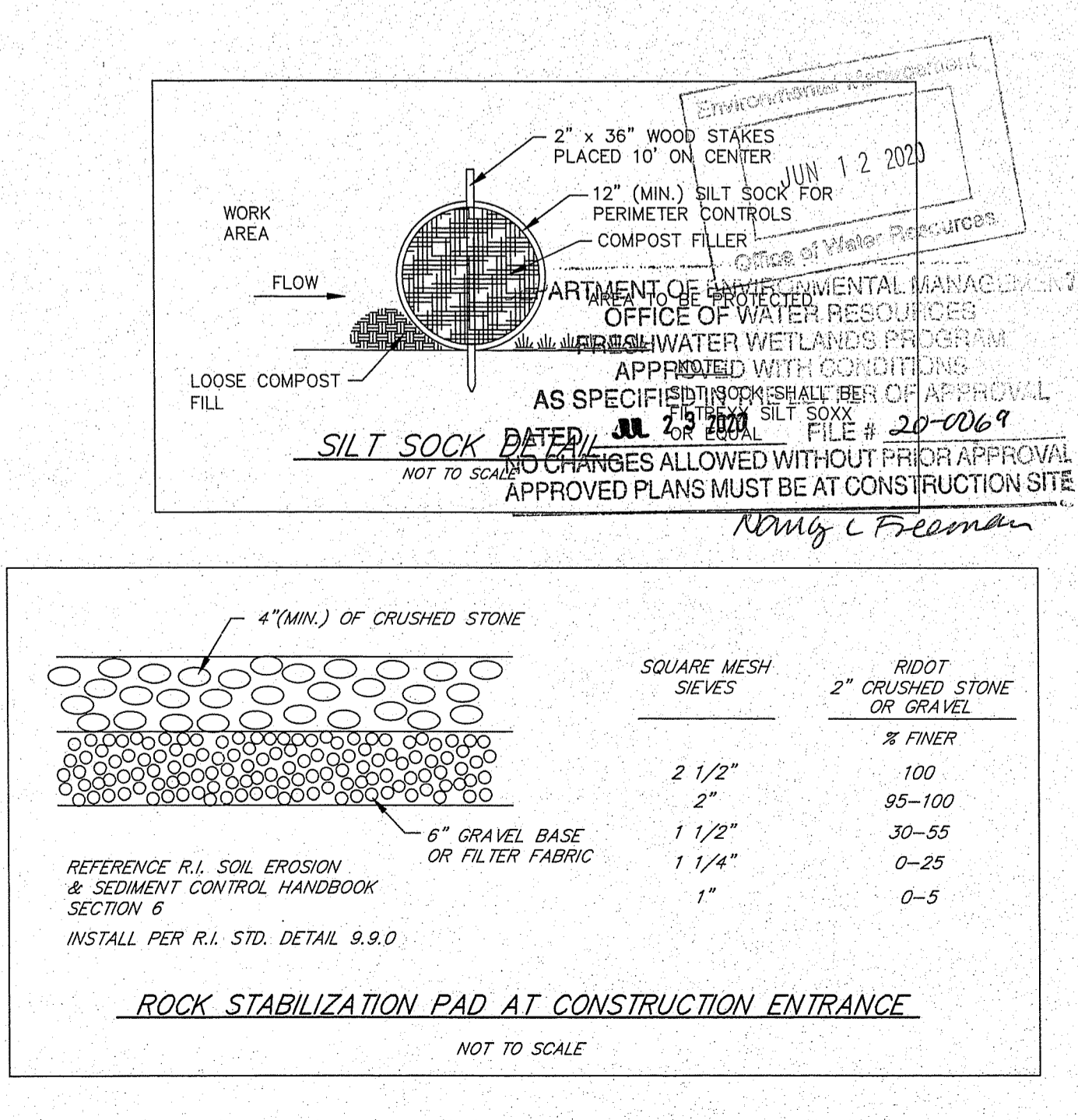
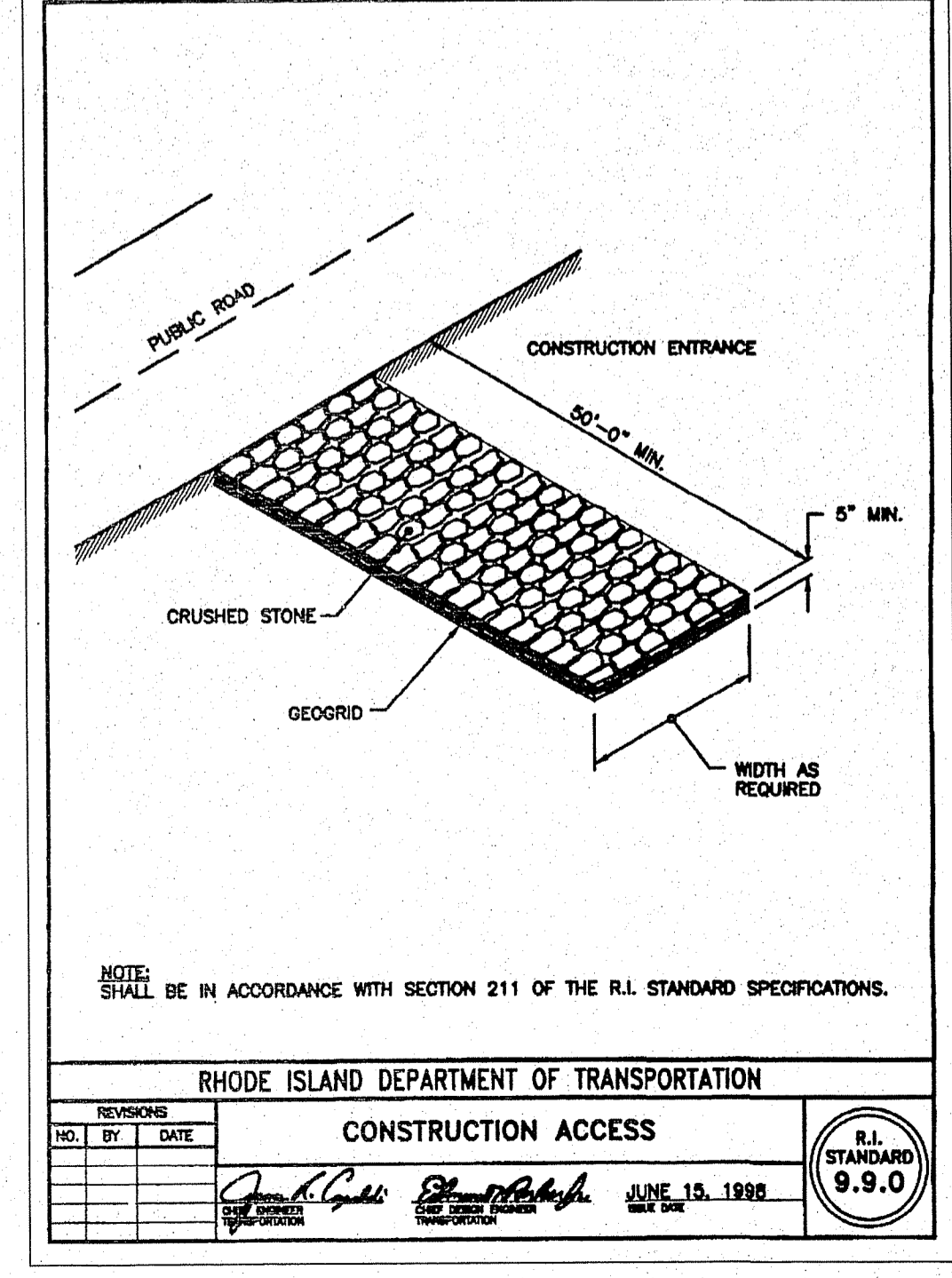
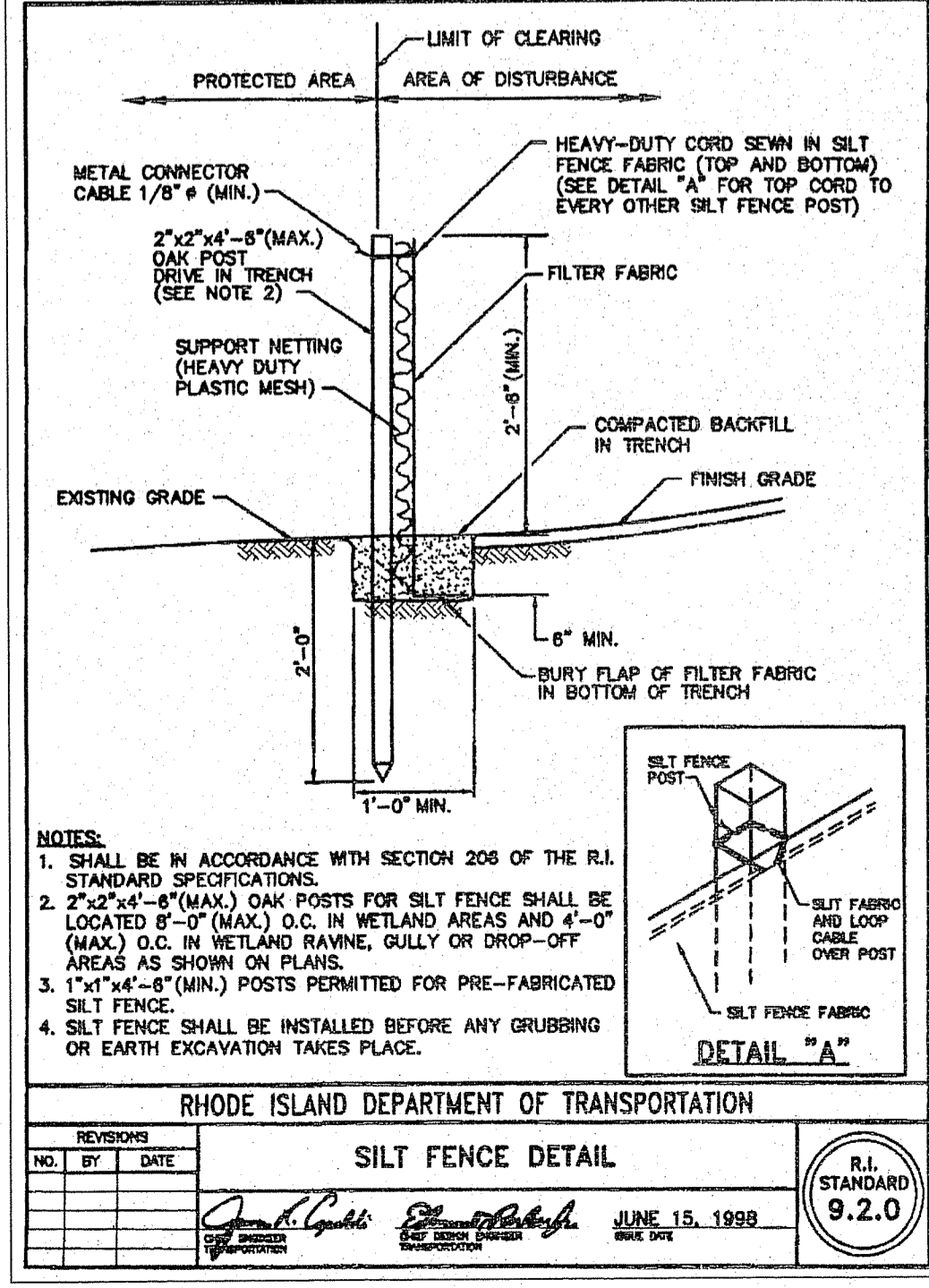
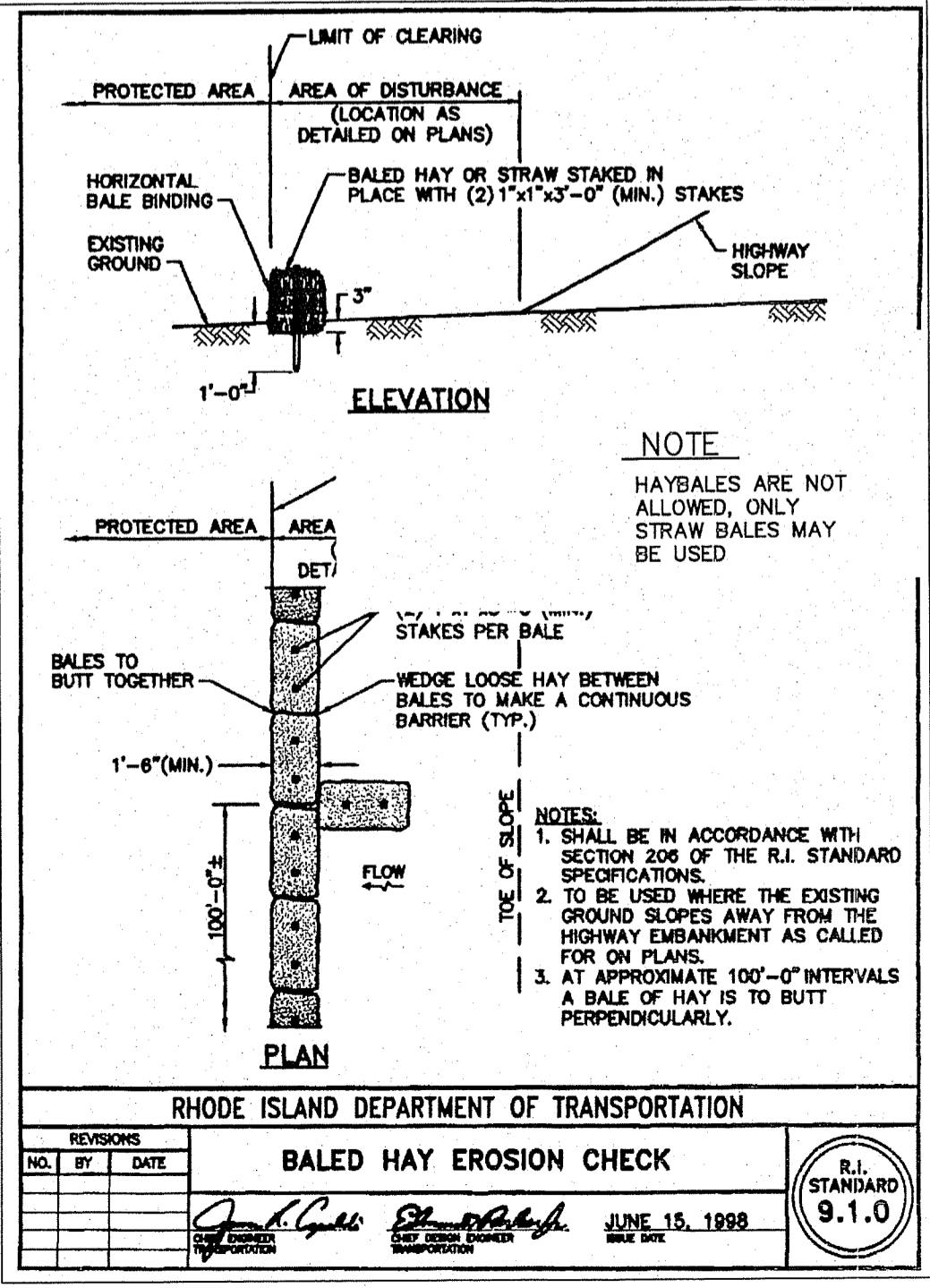
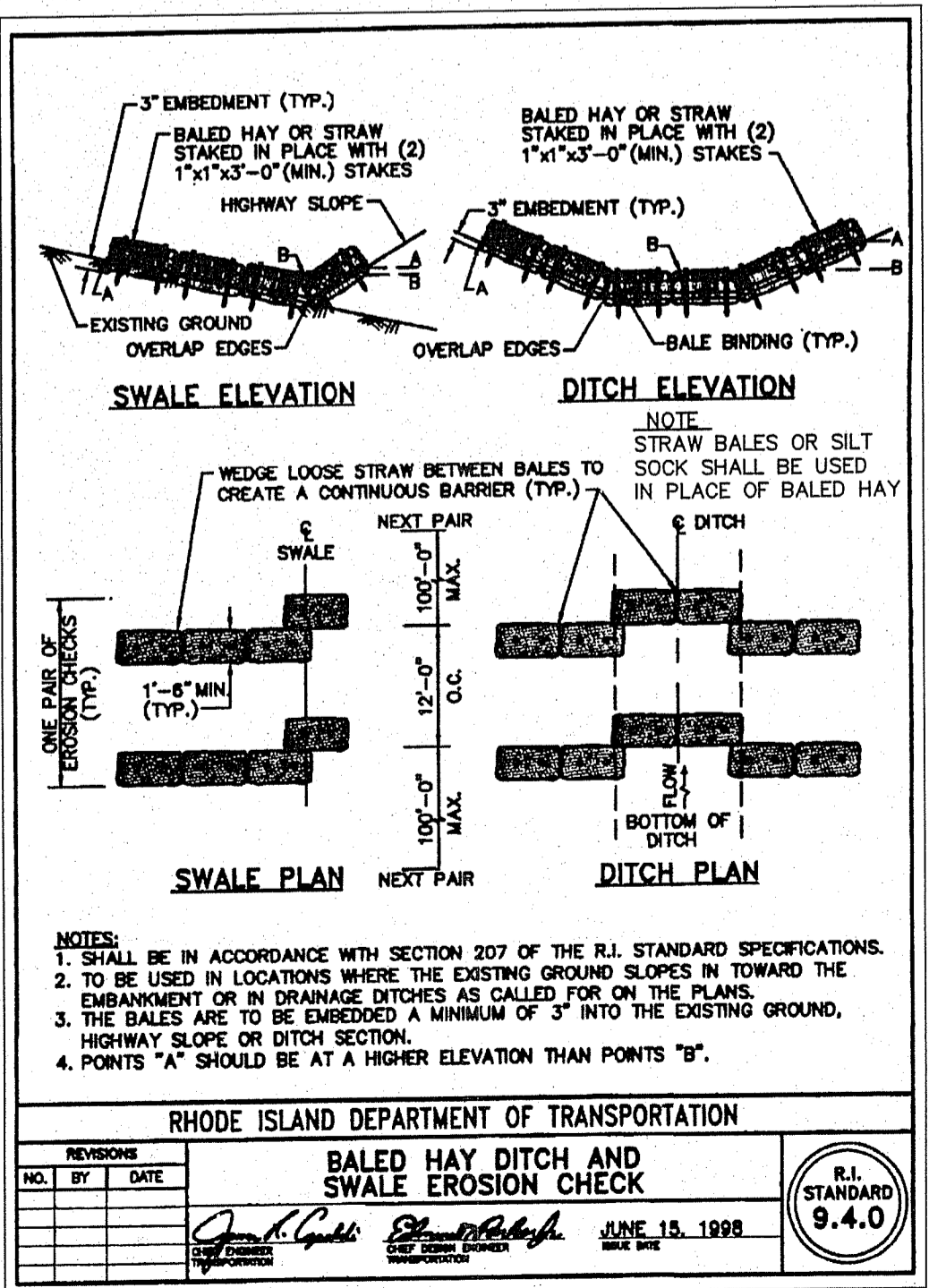
BOULDER RETAINING WALL DETAIL NOT TO SCALE



TEMPORARY SEDIMENT TRAP DETAIL 1/4"=1'-0"



DRAIN TRENCH DETAIL NOT TO SCALE



Vertical sidebar containing revision table, owner & applicant information (Blue Water Realty, LLC), TUG HOLLOW FLAT project name, and SFM Engineering Associates logo and contact info.