



REFERENCE: SOIL SURVEY OF RHODE ISLAND MAP SHEETS 17 AND 23  
**SOIL SURVEY MAP**  
 SCALE: 1" = 500'

**SOIL SURVEY DATA:**

SYMBOL	NAME
CeB	CANTON AND CHARLTON FINE SANDY LOAMS, 3 TO 8 PERCENT SLOPES
CeC	CANTON AND CHARLTON FINE SANDY LOAMS, VERY ROCKY, 3 TO 15 PERCENT SLOPES
ChB	CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS, 3 TO 8 PERCENT SLOPES
Co	CARLSLE MUCK
Pg	PITS, GRAVEL
Rf	RIDGEBURY, WHITMAN, AND LEICESTER EXTREMELY STONY FINE SANDY LOAMS

**NOTE:**  
 SOIL AREA'S ARE APPROXIMATE ONLY, AND BASED ON THE SOIL SURVEY OF RHODE ISLAND 1981, BY THE UNITED STATES DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE.

**OWNER/DEVELOPER:**

JAKE DEVELOPMENT CO., LLC.  
 295 WASHINGTON HIGHWAY  
 SMITHFIELD, RHODE ISLAND 02917

**DEVELOPMENT SCHEDULE:**

THE PROJECT IS PROPOSED TO BE BUILT IN ONE PHASE

# SOIL EROSION PLAN

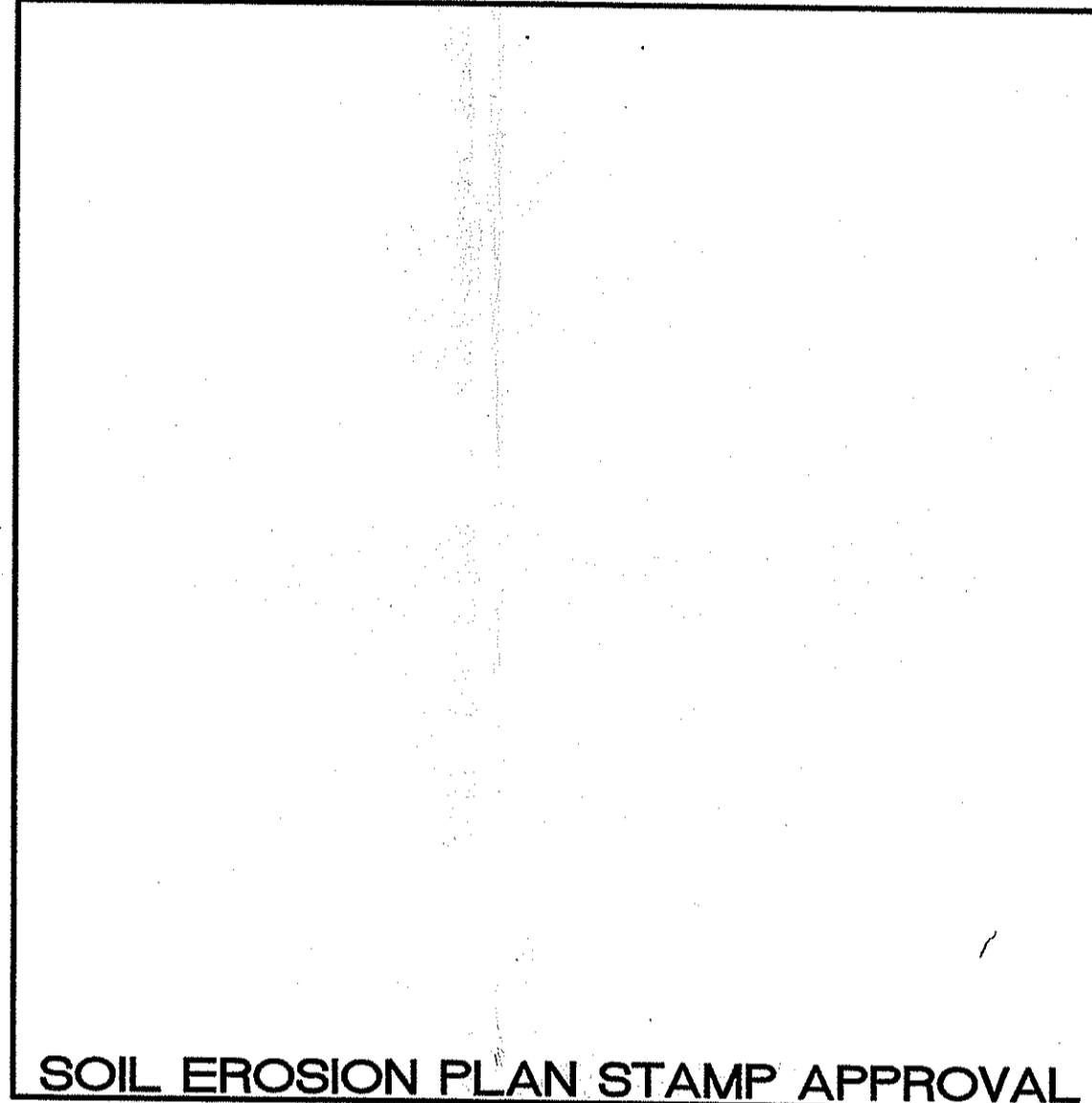
## ASSESSOR'S PLAT 45, LOT 18 AND ASSESSOR'S PLAT 46, LOT 75

### GEORGE WASHINGTON HIGHWAY (ROUTE 116) SMITHFIELD, RHODE ISLAND

JANUARY 2007

**INDEX:**

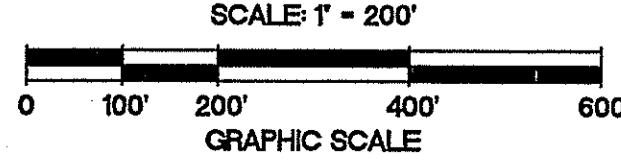
SHEET	DESCRIPTION
1	COVER SHEET
2	EXISTING CONDITIONS
3	SITE PLAN
4	NOTES AND DETAILS
5	SECTIONS



SOIL EROSION PLAN STAMP APPROVAL

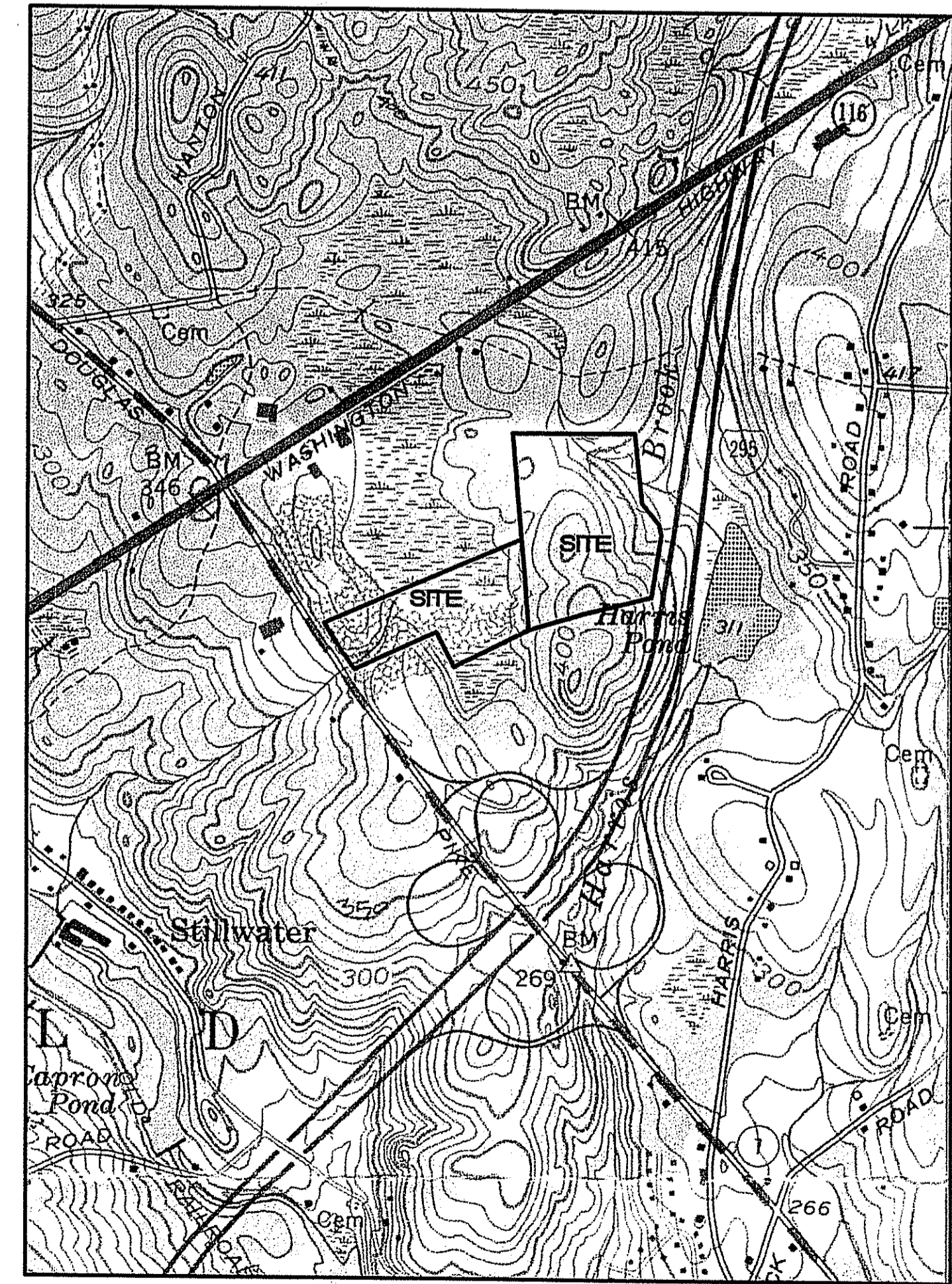


**AERIAL PHOTOGRAPH**



**REFERENCE:**

AERIAL PHOTOGRAPH PROVIDED BY THE RHODE ISLAND GEOGRAPHIC INFORMATION SYSTEM (RIGIS). THIS IMAGE WAS CREATED FROM AERIAL PHOTOGRAPHY TAKEN IN APRIL OF 2004 FOR NATIONAL GRID-USA AND THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION.  
 IMAGE FILE: 3232.sid



**LOCUS PLAN**

REFERENCE: USGS GEORGIATVILLE, RI  
 MAP QUADRANGLE  
 SCALE: 1"=1000'

REVISIONS

NO.	DATE	DESCRIPTION

NO. DATE

PROFESSIONAL ENGINEER  
 JOHN P. CAITO  
 No. 4396  
 Exp. 12-2-07

CIVIL ENGINEERS  
 JOHN P. CAITO  
 55 SHAPE DRIVE  
 CRANSTON, RHODE ISLAND 02910-4405  
 401-946-9800  
 fax: 401-944-0009

**Aito** CORPORATION  
 LAND PLANNERS

PROJECT NO: 131495  
 DATE: JANUARY 2007  
 SCALE: AS NOTED  
 DESIGNED BY: S.G.T.  
 DRAWN BY: J.M.M.  
 CHECKED BY: J.P.C.

COVER SHEET  
**SOIL EROSION PLAN**  
 ASSESSOR'S PLAT 45, LOT 18  
 AND ASSESSOR'S PLAT 46, LOT 75  
 GEORGE WASHINGTON HIGHWAY  
 SMITHFIELD, RHODE ISLAND  
 PREPARED FOR  
**JAKE DEVELOPMENT CO., LLC**

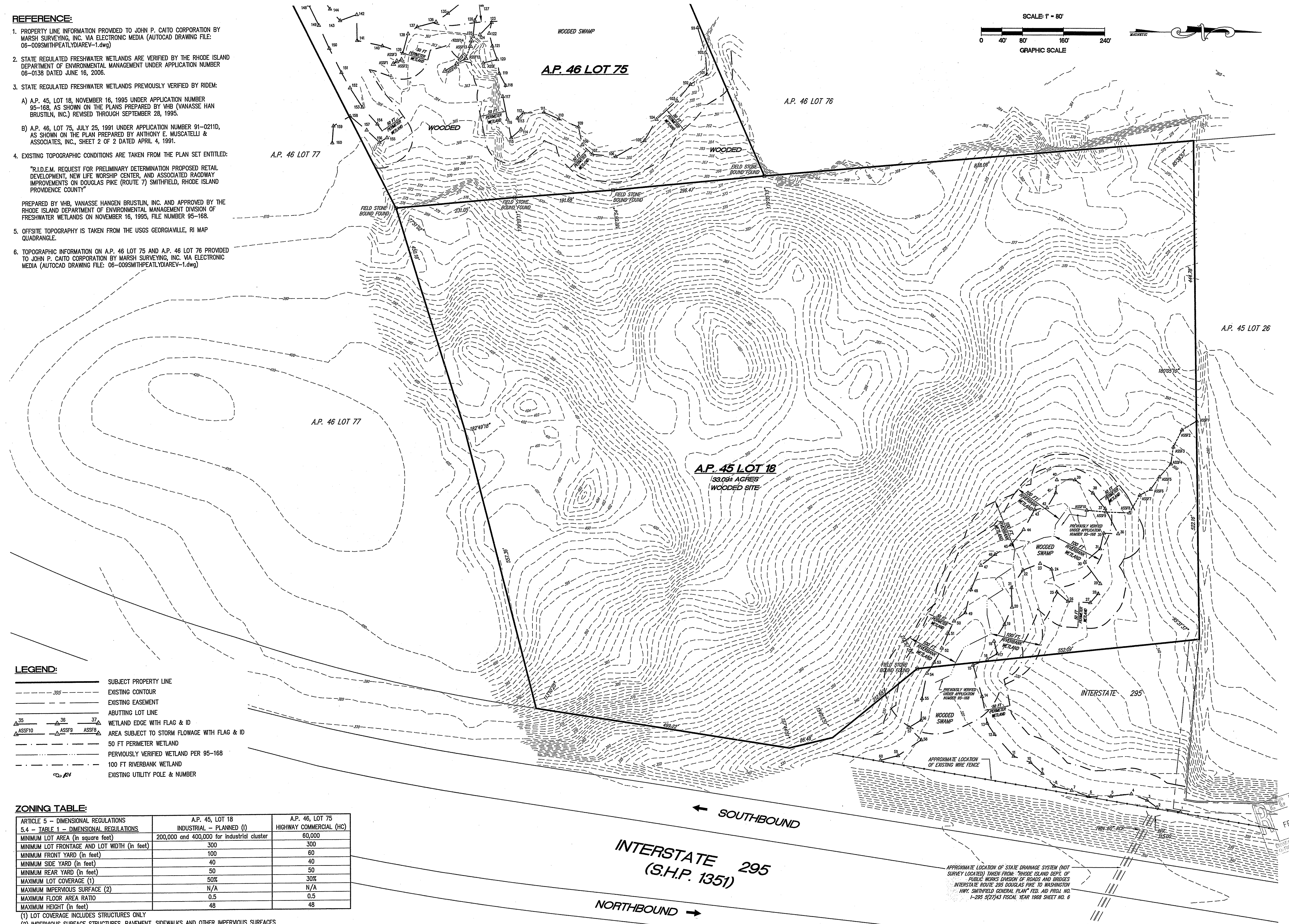
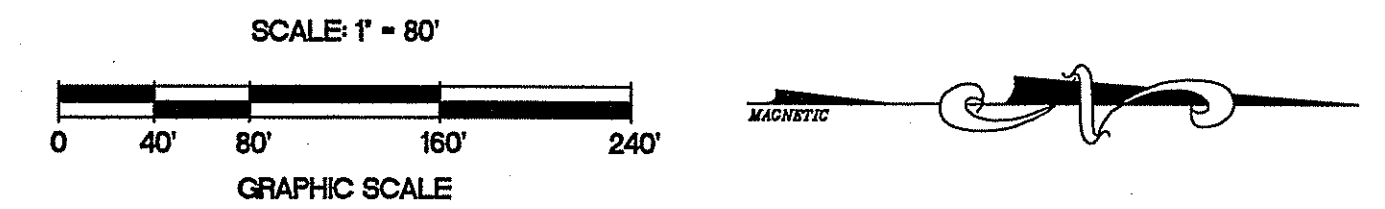
DRAWING NUMBER  
**1**

SHEET 1 OF 5

13.1495 Sheet 2.3 & 9 (Soil Erosion) 01-2007.dwg (DSC: 1040)  
Layout: Existing Conditions - 2

**REFERENCE:**

- PROPERTY LINE INFORMATION PROVIDED TO JOHN P. CAITO CORPORATION BY MARSH SURVEYING, INC. VIA ELECTRONIC MEDIA (AUTOCAD DRAWING FILE: 06-009SMITHPEATLYDIAREV-1.dwg)
  - STATE REGULATED FRESHWATER WETLANDS ARE VERIFIED BY THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT UNDER APPLICATION NUMBER 06-0138 DATED JUNE 16, 2006.
  - STATE REGULATED FRESHWATER WETLANDS PREVIOUSLY VERIFIED BY RIDEM:
    - A.P. 45, LOT 18, NOVEMBER 16, 1995 UNDER APPLICATION NUMBER 95-168, AS SHOWN ON THE PLANS PREPARED BY VHB (VANASSE HAN BRUSTLIN, INC.) REVISED THROUGH SEPTEMBER 28, 1995.
    - A.P. 46, LOT 75, JULY 25, 1991 UNDER APPLICATION NUMBER 91-0211D, AS SHOWN ON THE PLAN PREPARED BY ANTHONY E. MUSCATELLI & ASSOCIATES, INC., SHEET 2 OF 2 DATED APRIL 4, 1991.
  - EXISTING TOPOGRAPHIC CONDITIONS ARE TAKEN FROM THE PLAN SET ENTITLED: "R.I.D.E.M. REQUEST FOR PRELIMINARY DETERMINATION PROPOSED RETAIL DEVELOPMENT, NEW LIFE WORSHIP CENTER, AND ASSOCIATED ROADWAY IMPROVEMENTS ON DOUGLAS PIKE (ROUTE 7) SMITHFIELD, RHODE ISLAND PROVIDENCE COUNTY"
- PREPARED BY VHB, VANASSE HANGEN BRUSTLIN, INC. AND APPROVED BY THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT DIVISION OF FRESHWATER WETLANDS ON NOVEMBER 16, 1995, FILE NUMBER 95-168.
- OFFSITE TOPOGRAPHY IS TAKEN FROM THE USGS GEORGIATVILLE, RI MAP QUADRANGLE.
  - TOPOGRAPHIC INFORMATION ON A.P. 46 LOT 75 AND A.P. 46 LOT 76 PROVIDED TO JOHN P. CAITO CORPORATION BY MARSH SURVEYING, INC. VIA ELECTRONIC MEDIA (AUTOCAD DRAWING FILE: 06-009SMITHPEATLYDIAREV-1.dwg)



**LEGEND:**

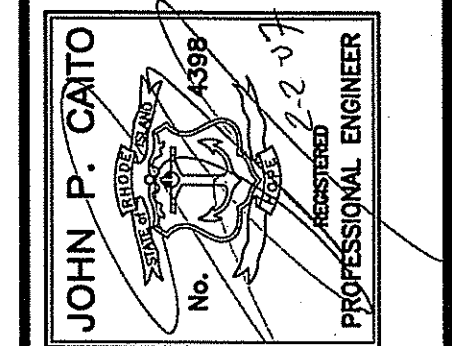
- SUBJECT PROPERTY LINE
- - - - - EXISTING CONTOUR
- - - - - EXISTING EASEMENT
- - - - - ABUTTING LOT LINE
- ▲ 35    ▲ 36    ▲ 37  
▲ ASSF10    ▲ ASSF9    ▲ ASSF8
- WETLAND EDGE WITH FLAG & ID
- AREA SUBJECT TO STORM FLOWAGE WITH FLAG & ID
- 50 FT PERIMETER WETLAND
- PERVIOUSLY VERIFIED WETLAND PER 95-168
- 100 FT RIVERBANK WETLAND
- EXISTING UTILITY POLE & NUMBER

**ZONING TABLE:**

ARTICLE 5 - DIMENSIONAL REGULATIONS 5.4 - TABLE 1 - DIMENSIONAL REGULATIONS	A.P. 45, LOT 18 INDUSTRIAL - PLANNED (I)	A.P. 46, LOT 75 HIGHWAY COMMERCIAL (HC)
MINIMUM LOT AREA (in square feet)	200,000 and 400,000 for industrial cluster	60,000
MINIMUM LOT FRONTAGE AND LOT WIDTH (in feet)	300	300
MINIMUM FRONT YARD (in feet)	100	60
MINIMUM SIDE YARD (in feet)	40	40
MINIMUM REAR YARD (in feet)	50	50
MAXIMUM LOT COVERAGE (1)	50%	30%
MAXIMUM IMPERVIOUS SURFACE (2)	N/A	N/A
MAXIMUM FLOOR AREA RATIO	0.5	0.5
MAXIMUM HEIGHT (in feet)	48	48

(1) LOT COVERAGE INCLUDES STRUCTURES ONLY  
(2) IMPERVIOUS SURFACE STRUCTURES, PAVEMENT, SIDEWALKS AND OTHER IMPERVIOUS SURFACES

NO.	DATE	REVISION



**JOHN P. CAITO CORPORATION**  
CIVIL ENGINEERS  
55 SHARPE DRIVE  
CRANSTON, RHODE ISLAND 02920-4402  
401-946-0300  
FAX: 401-944-0009

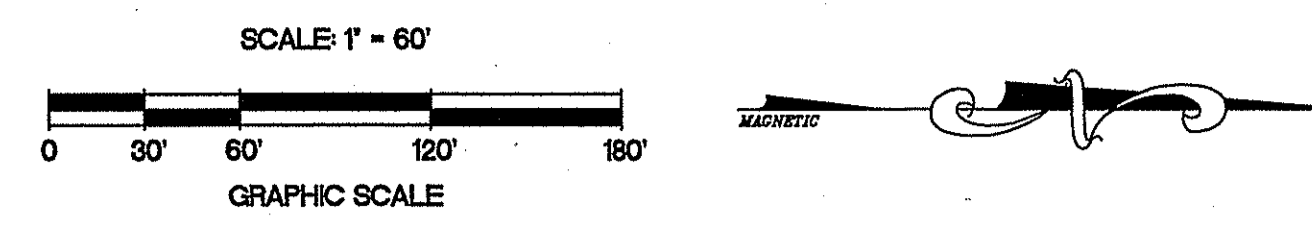
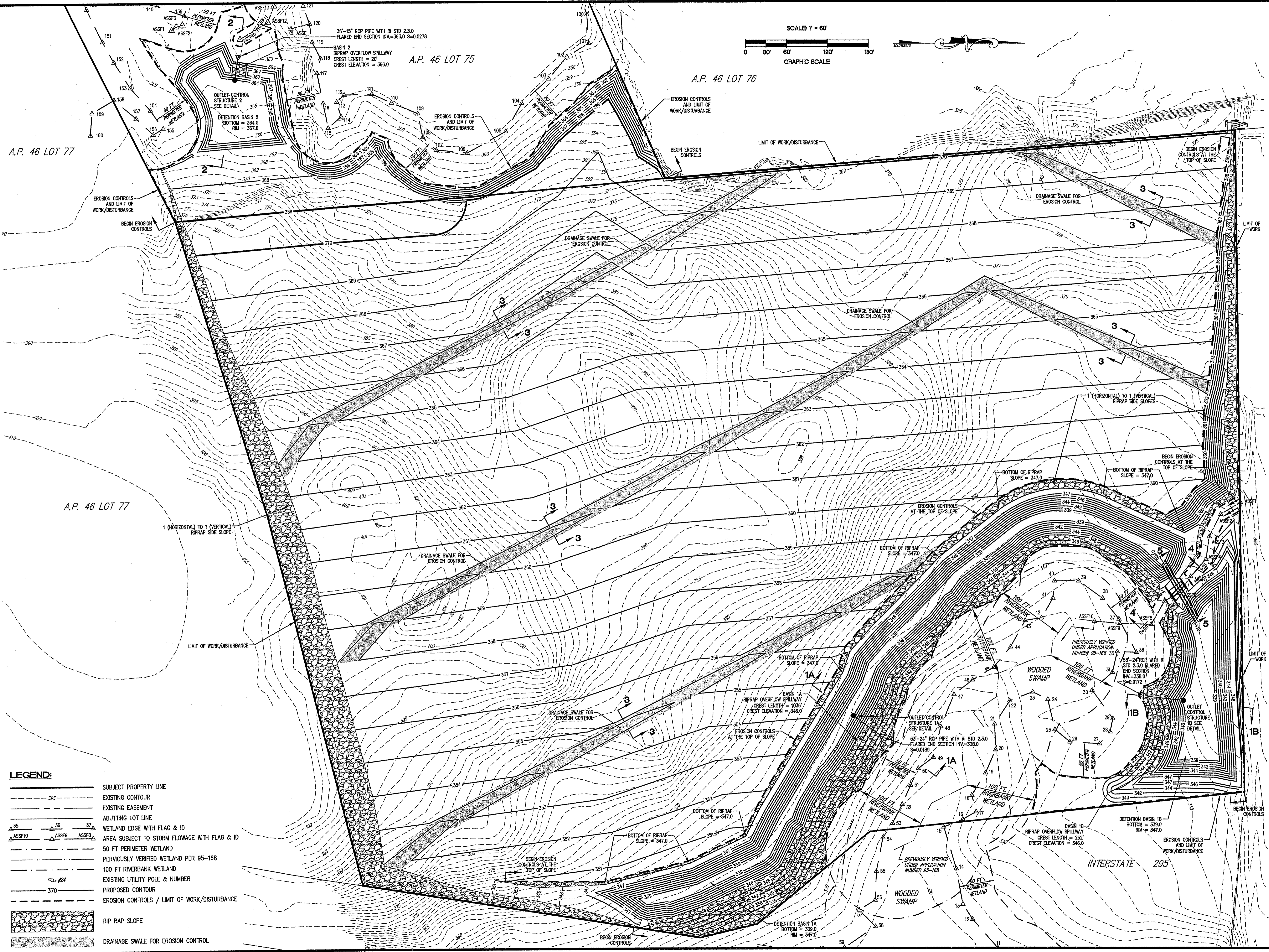
PROJECT NO: 13.1495  
DATE: JANUARY 2007  
SCALE: 1" = 80'  
DESIGNED BY: S.G.T.  
DRAWN BY: J.M.M.  
CHECKED BY: J.P.C.

EXISTING CONDITIONS  
**SOIL EROSION PLAN**  
ASSESSOR'S PLAT 45, LOT 18  
AND ASSESSOR'S PLAT 46, LOT 75  
GEORGE WASHINGTON HIGHWAY  
SMITHFIELD, RHODE ISLAND  
PREPARED FOR  
**JAKE DEVELOPMENT CO., LLC**

DRAWING NUMBER  
**2**  
SHEET 2 OF 5

APPROXIMATE LOCATION OF STATE DRAINAGE SYSTEM (NOT SURVEY LOCATED) TAKEN FROM: "RHODE ISLAND DEPT. OF PUBLIC WORKS DIVISION OF ROADS AND BRIDGES INTERSTATE ROUTE 295 DOUGLAS PIKE TO WASHINGTON HWY. SMITHFIELD GENERAL PLAN" FED. AID PROJ. NO. I-295 5(27)43 FISCAL YEAR 1988 SHEET NO. 6

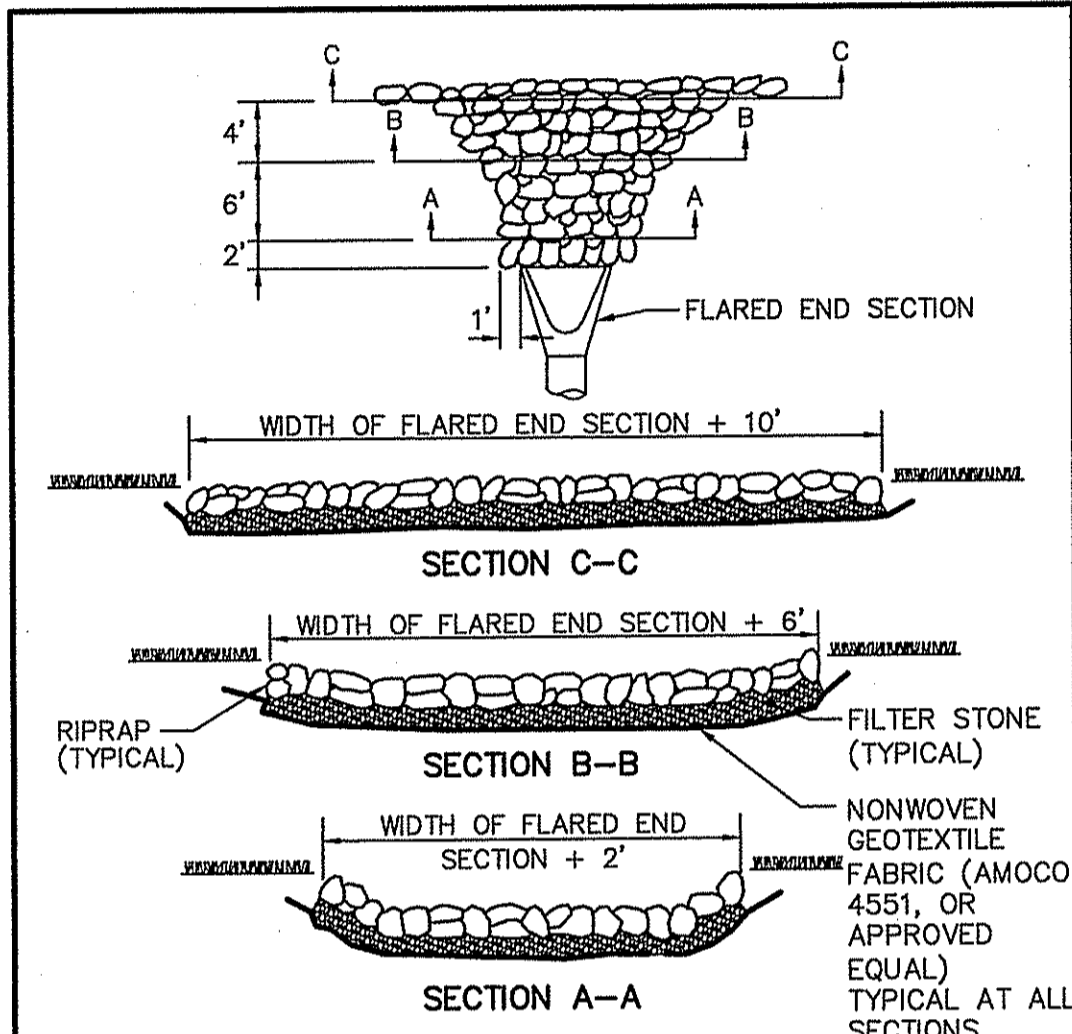
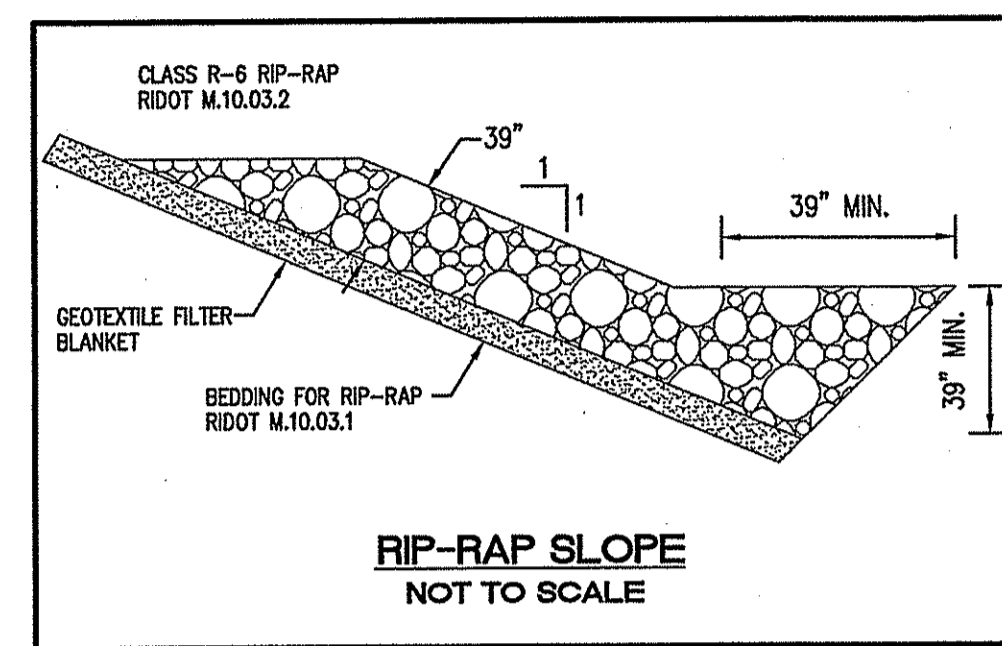
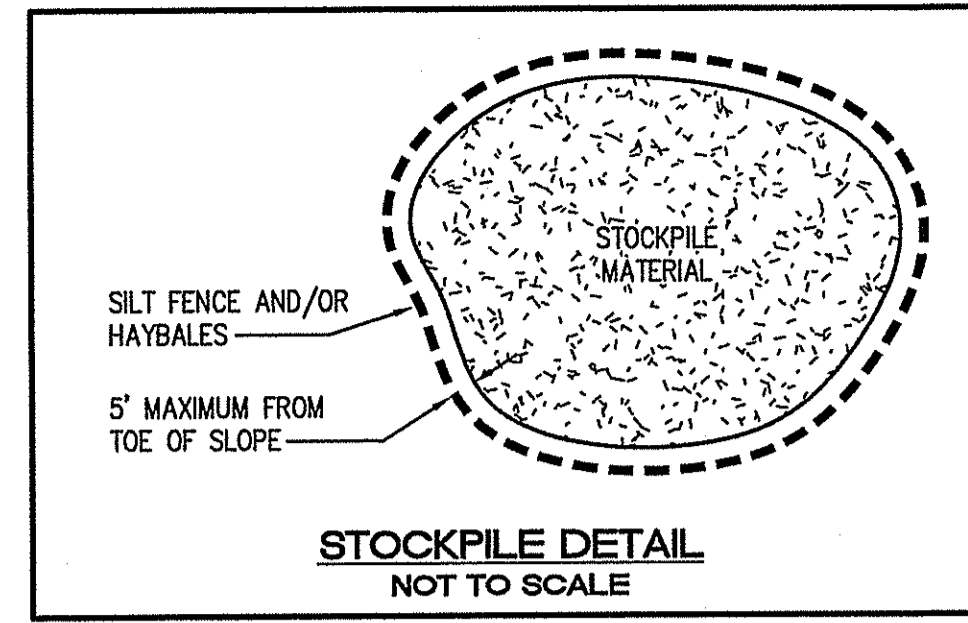
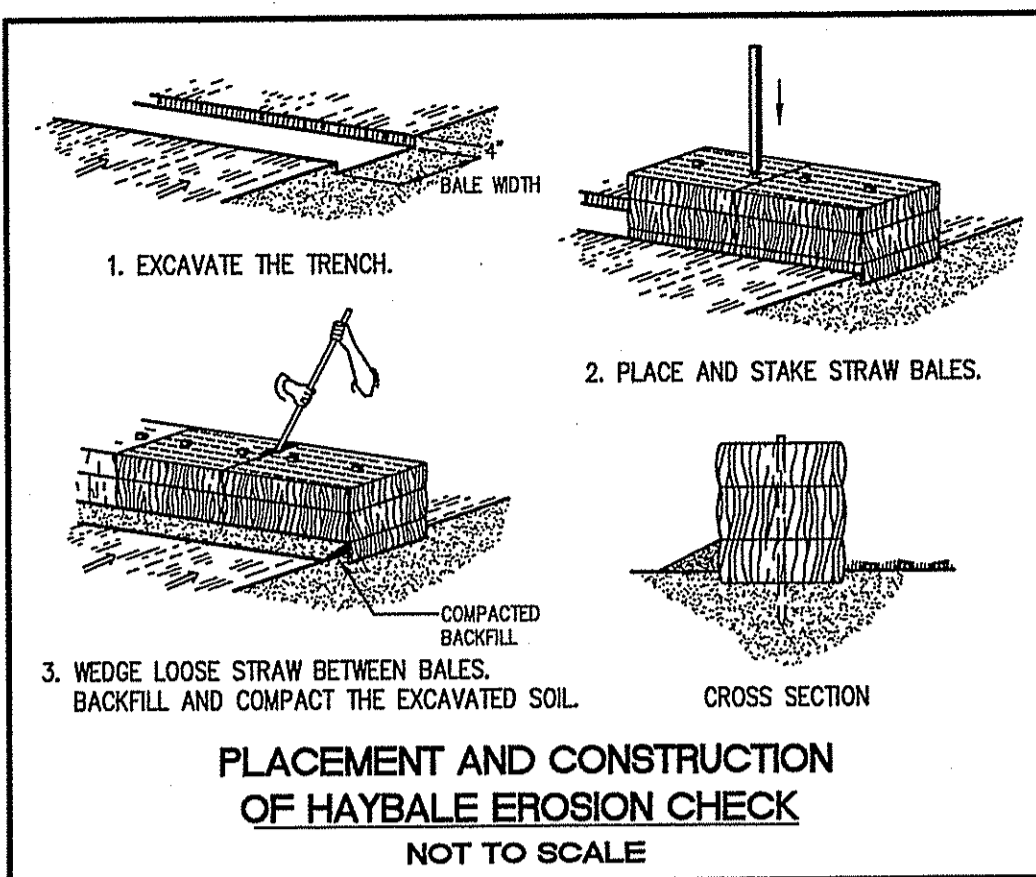
13.1495 Sheet 2 & 5 (Soil Erosion) 01-2007.dwg (DSC: 0401) Layout: Site Plan - 3  
 © 2007 JOHN P. CAITO CORPORATION



**LEGEND:**

	SUBJECT PROPERTY LINE
	EXISTING CONTOUR
	EXISTING EASEMENT
	ABUTTING LOT LINE
	WETLAND EDGE WITH FLAG & ID
	AREA SUBJECT TO STORM FLOWAGE WITH FLAG & ID
	50 FT PERIMETER WETLAND
	PREVIOUSLY VERIFIED WETLAND PER 95-168
	100 FT RIVERBANK WETLAND
	EXISTING UTILITY POLE & NUMBER
	PROPOSED CONTOUR
	EROSION CONTROLS / LIMIT OF WORK/DISTURBANCE
	RIP RAP SLOPE
	DRAINAGE SWALE FOR EROSION CONTROL

<p>NO. DATE</p>	<p>REVISION</p>
<p><b>JOHN P. CAITO</b>          CIVIL ENGINEERS          55 SHARPE DRIVE          GRANSTON RHODE ISLAND 02920-4402          401-946-0300          Fax: 401-944-0009</p>	
<p>PROJECT NO: 131495          DATE: JANUARY 2007          SCALE: 1" = 60'          DESIGNED BY: S.G.T.          DRAWN BY: J.M.M.          CHECKED BY: J.P.C.</p>	
<p><b>SITE PLAN</b>  <b>SOIL EROSION PLAN</b>          ASSESSOR'S PLAT 45, LOT 18          AND ASSESSOR'S PLAT 46, LOT 75          GEORGE WASHINGTON HIGHWAY          RHODE ISLAND</p>	
<p>PREPARED FOR  <b>JAKE DEVELOPMENT CO., LLC</b></p>	
<p>DRAWING NUMBER  <span style="font-size: 2em; font-weight: bold;">3</span></p>	
<p>SHEET 3 OF 5</p>	



- NOTES:**
- SEE SITE PLAN FOR CLASS OF RIP-RAP TO BE USED
  - SEE FILTER STONE CHART FOR APPROPRIATE FILTER STONE TYPE AND DEPTH
  - THE MINIMUM THICKNESS OF THE RIP-RAP LAYER SHALL BE 1.5 TIMES THE MAXIMUM STONE DIAMETER (100% PASSING), BUT NOT LESS THAN 6 INCHES.
  - DIMENSIONS MAY BE MODIFIED BY ENGINEER TO MEET FIELD CONDITIONS.
  - UNLESS OTHERWISE SPECIFIED, DUMPED RIP-RAP SHALL BE USED.

**ROCKFILL RIP-RAP AT FLARED END SECTION**  
 NOT TO SCALE

**GRADED RIPRAP STONE**

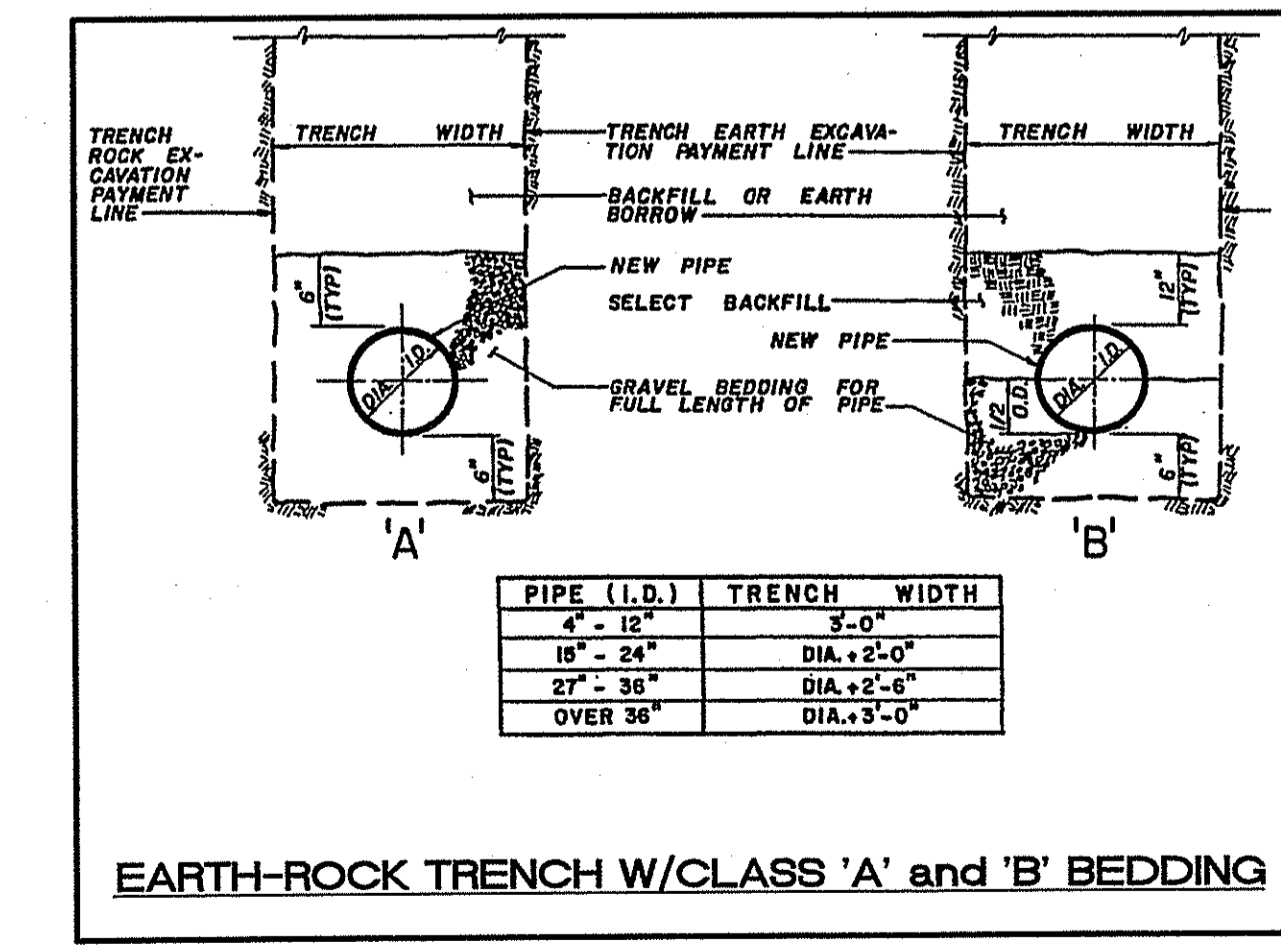
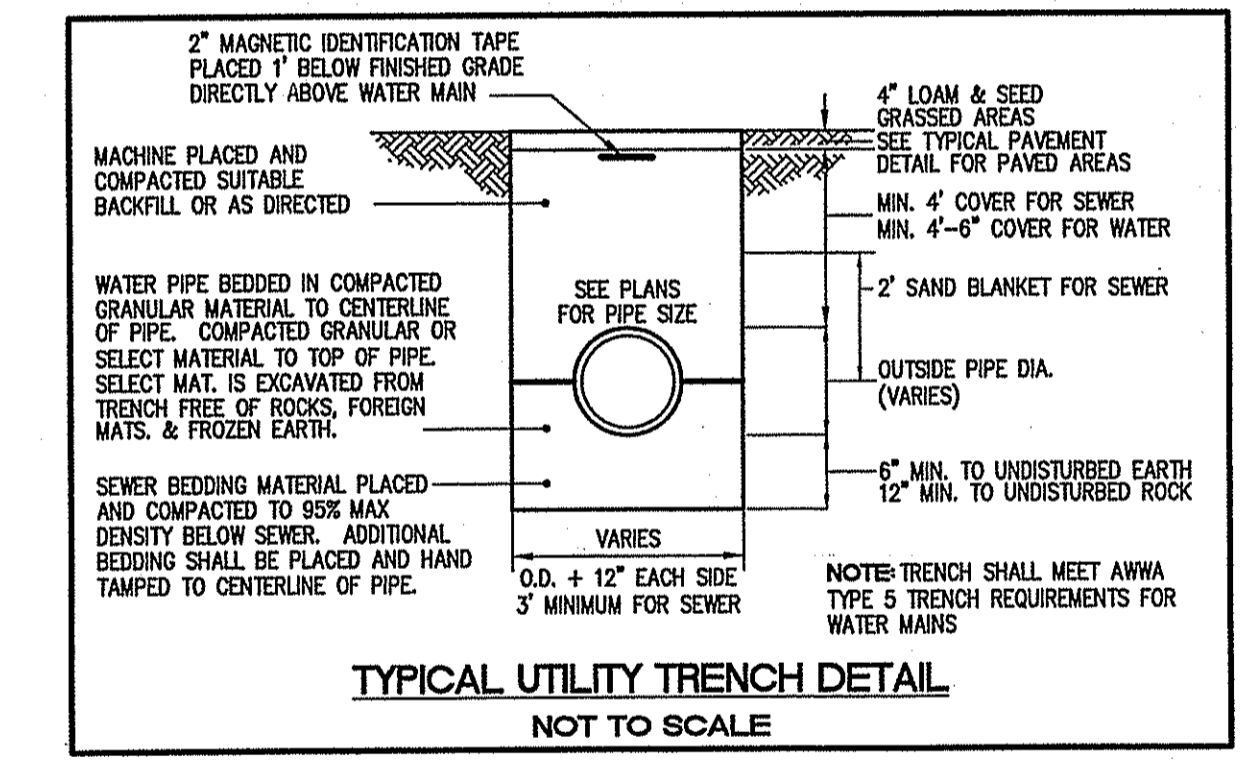
SIZE INCHES (SQUARE OPENINGS)

NATIONAL STONE ASSOCIATION MODIFIED NSA NO.	100% PASSING	0-50% PASSING	0-15% PASSING
R-1	2	1	NO. 4
R-2	4	2	1
R-3	8	4	2
R-4	14	7	4
R-5	20	10	6
R-6	26	13	8
R-7	34	18	14
R-8	50	24	18

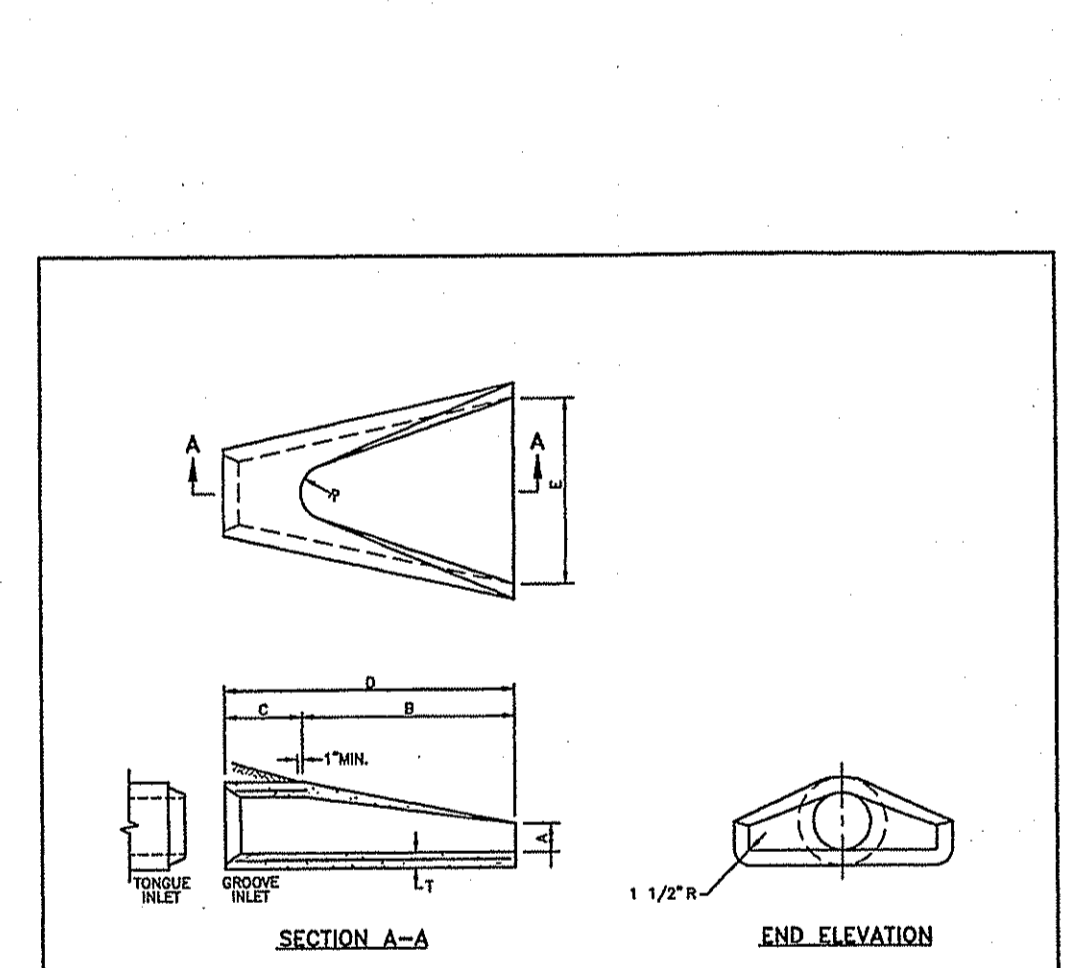
- NOTES:**
- REFERENCE: NATIONAL STONE ASSOCIATION MANUAL: QUARRIED STONE FOR EROSION AND SEDIMENT CONTROL, DATED 1978.
  - RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION

**FILTER STONE CHART**

RIPRAP	FILTER STONE	DEPTH
R-4	FS-3	7.5"
R-5	FS-3	7.5"
R-6	FS-2 and R-2	6" / 6"
R-7	FS-3 and R-4	7.5" / 21"



- GENERAL NOTES:**
- THE STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, AND THE RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO. THE 2004 REVISION OF THE STANDARD SPECIFICATIONS MAY BE OBTAINED AT THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION, DIVISION OF PUBLIC WORKS. IN ADDITION, THE TOWN OF SMITHFIELD STANDARD SPECIFICATIONS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO.
  - ALL REQUIRED SITE IMPROVEMENTS SHALL BE INSPECTED BY THE TOWN ENGINEER TO ENSURE SATISFACTORY COMPLETION. IN NO CASE SHALL THE INSTALLATION OF ANY IMPROVEMENTS BE STARTED UNTIL WRITTEN NOTIFICATION IS GIVEN TO THE TOWN ENGINEER. AT LEAST A 24-HOUR NOTICE SHALL BE GIVEN TO THE TOWN ENGINEER PRIOR TO ANY SUCH START OF CONSTRUCTION. A FINAL INSPECTION OF ALL SITE IMPROVEMENTS, UTILITIES AND GRADING WILL BE MADE TO DETERMINE WHETHER THE WORK IS SATISFACTORY AND IN SUBSTANTIAL AGREEMENT WITH THE APPROVED FINAL CONSTRUCTION DRAWINGS AND THE TOWN SPECIFICATIONS.
  - LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL CHECK AND VERIFY LOCATIONS OF ALL EXISTING UTILITIES BOTH UNDERGROUND AND OVERHEAD. ANY DAMAGE TO EXISTING UTILITIES AS SHOWN OR NOT SHOWN ON THE PLANS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. COSTS OF SUCH DAMAGE SHALL BE BORNE BY THE CONTRACTOR. NO EXCAVATION SHALL BE DONE UNTIL ALL INVOLVED UTILITY COMPANIES ARE NOTIFIED 48-HOURS IN ADVANCE. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY DIG-SAFE (1-888-344-7233) A MINIMUM OF 48 WORKING HOURS, EXCLUDING WEEKENDS AND HOLIDAYS, PRIOR TO THE START OF ANY EXCAVATION AND/OR BLASTING WORK. THE NAME OF THE COMPANY PERFORMING THE EXCAVATION AND/OR BLASTING WORK MUST BE SUPPLIED TO DIG-SAFE, IF IT IS DIFFERENT FROM THE CALLER.
  - IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN ANY AND ALL PERMITS REQUIRED BY THE STATE OF RHODE ISLAND, THE FEDERAL GOVERNMENT, AND THE TOWN OF SMITHFIELD ON PRIOR TO COMMENCING ANY WORK.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS IN ACCORDANCE WITH THE TOWN OF SMITHFIELD SOIL EROSION AND SEDIMENT CONTROL ORDINANCE.
  - UNLESS OTHERWISE SPECIFIED, ALL STORM DRAINS SHALL BE REINFORCED CONCRETE PIPE, CLASS III, WITH ALL EXTERIOR JOINTS MORTARED.
  - THE ENTIRE PROPERTY IS LOCATED WITHIN "ZONE X" AREAS DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD PLAIN AS IDENTIFIED ON BELOW:  
 "NATIONAL FLOOD INSURANCE PROGRAM; FIRM, FLOOD INSURANCE RATE MAP; TOWN OF SMITHFIELD, RHODE ISLAND, PROVIDENCE COUNTY; PANEL 5 OF 9; COMMUNITY PANEL NUMBER 440025 0005 B; MAP REVISED MARCH 4, 1991; FEDERAL EMERGENCY MANAGEMENT AGENCY".
  - ALL MATERIAL FOR FILL SHALL BE CLEAN AND FREE OF MATTER WHICH COULD POLLUTE ANY DOWN STREAM WATERCOURSE.
  - VERTICAL DATUM: MEAN SEA LEVEL (NGVD 29).



**PRECAST CONCRETE FLARED END SECTION**

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DATE: JUNE 14, 1998

SCALE: 2.3.0

- EROSION CONTROL AND SOIL STABILIZATION PROGRAM:**
- DENUDED SLOPES SHALL NOT BE LEFT EXPOSED FOR EXCESSIVE PERIODS OF TIME, SUCH AS THE INACTIVE WINTER SEASONS.
  - TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, FIBER MULCH OR PROTECTIVE COVERS SUCH AS MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS). THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
  - HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 2000 LBS/ACRE.
  - ALL HAYBALES OR TEMPORARY PROTECTION SHALL REMAIN IN-PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
  - THE TOPSOIL 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 RHODE ISLAND STANDARD SPECIFICATION M.20.01.
  - THE SEED MIX SHALL BE INOCULATED WITHIN 24-HOURS BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
  - THE DESIGN MIX UTILIZED IN ALL DISTURBED AREAS TO BE SEEDDED SHALL BE IN ACCORDANCE WITH THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, 1989, CHAPTER FOUR, SECTIONS A AND B, AS AMENDED.
  - THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR, AND SHALL DO SO AT NO ADDITIONAL EXPENSE.
  - THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE INDICATED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, 1989, CHAPTER FOUR, SECTIONS A AND B, AS AMENDED.
  - STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN FIFTEEN (15) DAYS OF FINAL GRADING.
  - STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WETLANDS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN THIRTY PERCENT (30%). STOCKPILES SHALL ALSO BE SEEDDED AND/OR STABILIZED, AND ALL STOCKPILES SHALL BE COMPLETELY ENCLOSED WITH SILTFENCE AND/OR STAKED HAYBALES.(SEE DETAIL)
  - ON BOTH STEEP AND LONG SLOPES, CONSIDERATION SHOULD BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.
  - TREES TO BE RETAINED SHALL BE FENCED OR ROPED OFF TO PROTECT THEM FROM CONSTRUCTION EQUIPMENT.
  - ALL DISTURBED AREAS MUST BE SEEDDED OR PLANTED WITHIN THE CONSTRUCTION SEASON.
  - TEMPORARY SEEDING MUST BE DONE WITHIN ONE (1) MONTH AFTER DISTURBANCE.
  - ALL DISTURBED AREAS MUST BE PERMANENTLY SEEDDED OR PLANTED BEFORE OCTOBER 1ST, IF NOT THEY MUST BE TEMPORARILY SEEDDED.

- SEDIMENTATION CONTROL PROGRAM:**
- EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING DOWNSTREAM WATERCOURSES AND STORMWATER DRAINAGE SYSTEMS.
  - DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUN-OFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
  - SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.
  - CARE SHALL BE TAKEN SO AS NOT TO PLACE "REMOVED SEDIMENTS" WITHIN THE PATH OF EXISTING, NEWLY CREATED (BOTH TEMPORARY AND PERMANENT) OR PROPOSED WATERCOURSES OR THOSE AREAS SUBJECTED TO STORMWATER FLOWAGE.
  - ADDITIONAL HAYBALES OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.
  - SEDIMENTATION TRAPS SHALL BE PROVIDED AT ALL DRAINAGE STRUCTURES DURING CONSTRUCTION.
  - EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AT THE SITE PRIOR TO THE START OF CONSTRUCTION AND BE PROPERLY MAINTAINED UNTIL ALL DISTURBED AREAS ARE STABILIZED INCLUDING:
    - THE INSTALLATION OF A CONTINUOUS LINE OF STAKED HAYBALES IN ALL LOCATIONS SHOWN ON THE APPROVED SITE PLANS AND WHERE OTHERWISE NECESSARY TO PREVENT SEDIMENTS FROM ENTERING DOWNSTREAM WATERCOURSES AND STORMWATER DRAINAGE SYSTEMS.
    - ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITH APPROVED GROUND COVER PRIOR TO THE COMPLETION OF THE PROJECT. AREAS EXPOSED FOR EXTENDED PERIODS ARE TO BE COMPLETELY COVERED WITH SPREAD HAY MULCH.
    - OUTFALLS SHALL BE PROTECTED BY HAYBALE FILTERS UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED WITH APPROVED GROUND COVER.
    - ALL CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
  - THE LIMITS OF ALL CLEARING, GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THE LIMITS OF DISTURBANCE SHALL REMAIN TOTALLY UNDISTURBED.

- STORM DRAINAGE SYSTEM MAINTENANCE PLAN:**
- THE FOLLOWING LIST OF MAINTENANCE TASKS AND FREQUENCIES MUST BE ADHERED TO IN ORDER TO ENSURE A SUCCESSFUL LONG TERM OPERATION OF THE STORM DRAINAGE SYSTEM.
- THE CONTRACTOR SHALL INITIATE APPROPRIATE VEGETATIVE PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED, UNLESS THE ACTIVITY IN THAT AREA IS TO RESUME WITHIN TWENTY-ONE (21) DAYS.
  - SEDIMENTS SHALL BE REMOVED FROM STORM DRAINAGE INFRASTRUCTURES (CATCH BASINS, MANHOLES, PIPES, INLETS, OUTLET STRUCTURE AND THE DETENTION BASIN) IMMEDIATELY FOLLOWING SITE STABILIZATION AND AFTER THE FIRST INITIAL YEAR OF OPERATION. THEREAFTER, SEDIMENTS SHALL BE REMOVED FROM STORM DRAINAGE INFRASTRUCTURES EVERY YEAR (ANNUALLY). REMOVAL OF SEDIMENTS WILL BE NECESSARY AT MORE FREQUENT TIME INTERVALS IF THE SEDIMENT STORAGE CAPACITIES OF STORM BMP'S ARE EXCEEDED.
  - SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH ONE-HALF THE HEIGHT OF THE HAY BALE AND /OR SILT FENCE AS STATED IN SECTIONS F.A.2 AND F.B.3 OF THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK.
  - ALL EROSION CONTROLS, INCLUDING BUT NOT LIMITED TO, STAKED HAYBALES, SILT FENCE, FIBER MULCH OR PROTECTIVE COVERS SUCH AS MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS) SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS AFTER AN EVENT WHICH GENERATES 0.25 INCHES OF RAIN IN A TWENTY-FOUR (24) PERIOD.
  - ALL DISTURBED AREAS, RIPRAP, GRASSED AREAS AND SIDE SLOPES AND GRASSED AREAS OF THE DETENTION BASIN SHALL BE INSPECTED AT LEAST TWICE PER YEAR TO CHECK FOR EROSION PROBLEMS. PROBLEM AREAS SHALL BE REPAIRED AND/OR RESEEDDED IMMEDIATELY TO STABILIZE EXPOSED SOILS, THEREBY PREVENTING EROSION AND POTENTIAL CLOGGING OF STORM WATER INFRASTRUCTURES.
  - INSPECTION OF THE STORM DRAINAGE INFRASTRUCTURES (CATCH BASINS, MANHOLES, PIPES, INLETS, OUTLET STRUCTURE AND THE DETENTION BASIN) EROSION CONTROLS SHALL BE PERFORMED AT LEAST ON AN ANNUAL BASIS, PREFERABLY DURING A STORM EVENT TO INSPECT FOR PROPER FUNCTIONING OF THE FACILITY.
  - INSPECTION OF STORM DRAINAGE INFRASTRUCTURES SHALL OCCUR ON AN ANNUAL BASIS, AT A MINIMUM, TO CHECK FOR DEBRIS REMOVAL (SEDIMENT AND HYDROCARBONS) AND STRUCTURAL INTEGRITY OR DAMAGE. SUCH DEFICIENCIES MUST BE CORRECTED IMMEDIATELY. REMOVAL AND DISPOSAL OF ACCUMULATED DEBRIS SHALL BE IN ACCORDANCE WITH STATE AND FEDERAL GUIDELINES. IN THE CASE OF AN OIL AND/OR BULK LIQUID RELEASE, THE SYSTEM MUST BE CLEANED IMMEDIATELY FOLLOWING THE SPILL. ALL COSTS INCURRED FOR MAINTENANCE, CLEANING, AND INSPECTIONS ARE THE RESPONSIBILITY OF THE PROPERTY OWNER. IN CERTAIN CASES, THE APPROPRIATE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (RDEM) PROGRAM MAY REQUIRE DOCUMENTATION OF MAINTENANCE.
  - GRASSES MUST BE PLANTED AROUND AND WITHIN THE DETENTION BASIN IMMEDIATELY FOLLOWING FINAL GRADING TO STABILIZE SLOPES AND PREVENT EROSION. TREE AND SHRUBS SHALL NOT BE PLANTED ON ANY IMPOUNDING EMBANKMENTS, TO PREVENT POTENTIAL SUBSURFACE DISTURBANCE AND POSSIBLE FAILURE OF THE STRUCTURE.
  - SIDE SLOPES OF THE DETENTION BASIN, GRASSED AREAS AND DISTURBED AREAS SHALL BE MOWED AT LEAST ONCE DURING THE GROWING SEASON (PREFERABLY AFTER AUGUST 15TH), TO PREVENT UNWANTED WOODY GROWTH. MOWING CAN BE MORE FREQUENT IF A MORE GROOMED APPEARANCE IS DESIRED. ALL TRASH AND LITTER SHALL BE REMOVED FROM THESE AREAS PRIOR TO MOWING OPERATIONS.
  - ANY INADVERTENT OR DELIBERATE DISCHARGE OF WASTE OIL OR ANY OTHER POLLUTANT TO THE STORM WATER DISCHARGE SYSTEM REQUIRES IMMEDIATE NOTIFICATION OF THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, OIL POLLUTION CONTROL PROGRAM, AT 222-1366, AS PER OIL POLLUTION CONTROL REGULATIONS. DURING NON-WORKING HOURS, NOTIFICATION OF SPILLS CAN BE MADE TO THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AT 222-3070, THE 24-HOUR EMERGENCY RESPONSE PHONE NUMBER.
  - REPAIR OR REPLACEMENT OF ANY PORTION OF STORM DRAINAGE INFRASTRUCTURES (RIPRAP, CATCH BASINS, MANHOLES, PIPES, INLETS, OUTLET STRUCTURE AND THE DETENTION BASIN) AND EROSION CONTROLS, INCLUDING BUT NOT LIMITED TO, STAKED HAYBALES, SILT FENCE, FIBER MULCH OR PROTECTIVE COVERS SUCH AS MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS) SHALL BE DONE WITHIN THIRTY (30) DAYS OF DEFICIENCY REPORTS. IF AN EMERGENCY SITUATION IS IMMINENT THEN REPAIR/REPLACEMENT SHALL BE DONE IMMEDIATELY TO AVERT FAILURE OR DANGER TO NEARBY RESIDENTS.
  - ALL STORM WATER CONTROL MEASURES, DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, INCLUDING UN-STABILIZED SOIL STOCKPILES, DISCHARGE LOCATIONS AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, MUST BE INSPECTED BY OR UNDER THE SUPERVISION OF THE PERMITTEE AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS AFTER AN EVENT WHICH GENERATES 0.25 INCHES OF RAIN IN A TWENTY-FOUR (24) PERIOD. SUCH AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE WATERS OF THE STATE OR A SEPARATE STORM SEWER SYSTEM. ALL BMPs (BEST MANAGEMENT PRACTICES) SHALL BE MAINTAINED TO PREVENT UNCONTROLLED RELEASES OF MEASURABLE AMOUNTS OF SEDIMENT OR SEDIMENT-LADEN WATER FROM TRAVELING BEYOND THE LIMITS OF DISTURBANCE. IF AN INSPECTION REVEALS A DISCHARGE OF SEDIMENT TO THE WATERS OF THE STATE OR A SEPARATE STORM SEWER SYSTEM, THE PERMITTEE MUST NOTIFY THE OFFICE OF THE NATURE OF THE DISCHARGE, THE MEASURES TAKEN TO CLEAN UP THE DISCHARGE, AND THE MEASURES TAKEN TO PREVENT FUTURE RELEASES. BASED ON THE RESULTS OF SITE INSPECTIONS, THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE REVISED TO CONFORM TO THE APPROVED CONSTRUCTION PLANS, AS APPROPRIATE, BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING AN INSPECTION THAT FINDS A DEFICIENCY.
  - THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROLS AND STORM DRAINAGE INFRASTRUCTURES, INCLUDING BUT NOT LIMITED TO, STAKED HAYBALES, SILT FENCE, FIBER MULCH OR PROTECTIVE COVERS SUCH AS MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS), CATCH BASINS, MANHOLES, PIPES, INLETS, FLARED END SECTIONS, RIPRAP, OUTLET STRUCTURE AND THE DETENTION BASIN DURING CONSTRUCTION AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE IMPROVEMENTS UPON COMPLETION OF CONSTRUCTION.
  - REFER TO THE STATE OF RHODE ISLAND STORM WATER DESIGN AND INSTALLATION STANDARDS MANUAL, RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, RHODE ISLAND COASTAL RESOURCE MANAGEMENT COUNCIL, SEPTEMBER 1, 1993, AS AMENDED, FOR ADDITIONAL MAINTENANCE REQUIREMENTS, IF NECESSARY.
  - ALL STORM WATER INFRASTRUCTURES SHALL BE PRIVATELY OWNED AND MAINTAINED.
  - THE LEGAL LIABILITY FOR AND MAINTENANCE OF THE DETENTION BASIN (A.K.A. HOLDING POND) SHALL BE THE SOLE RESPONSIBILITY OF THE LANDOWNER.
  - THIS STORM DRAINAGE MAINTENANCE PLAN SHALL NOT RELEASE THE OWNER/PERMITTEE/DEVELOPER FROM ANY RESPONSIBILITIES OR REQUIREMENTS UNDER OTHER ENVIRONMENTAL STATUTES OR REGULATIONS.

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**REVISION**

NO.	DATE	DESCRIPTION

**PROJECT NO:** 131495  
**DATE:** JANUARY 2007  
**SCALE:** AS NOTED  
**DESIGNED BY:** S.G.T.  
**DRAWN BY:** S.G.T.  
**CHECKED BY:** J.P.C.

**NOTES AND DETAILS**

**SOIL EROSION PLAN**  
 ASSESSOR'S PLAT 45, LOT 18  
 AND ASSESSOR'S PLAT 46, LOT 75  
 AND GEORGE WASHINGTON HIGHWAY  
 SMITHFIELD, RHODE ISLAND

PREPARED FOR  
**JAKE DEVELOPMENT CO., LLC**

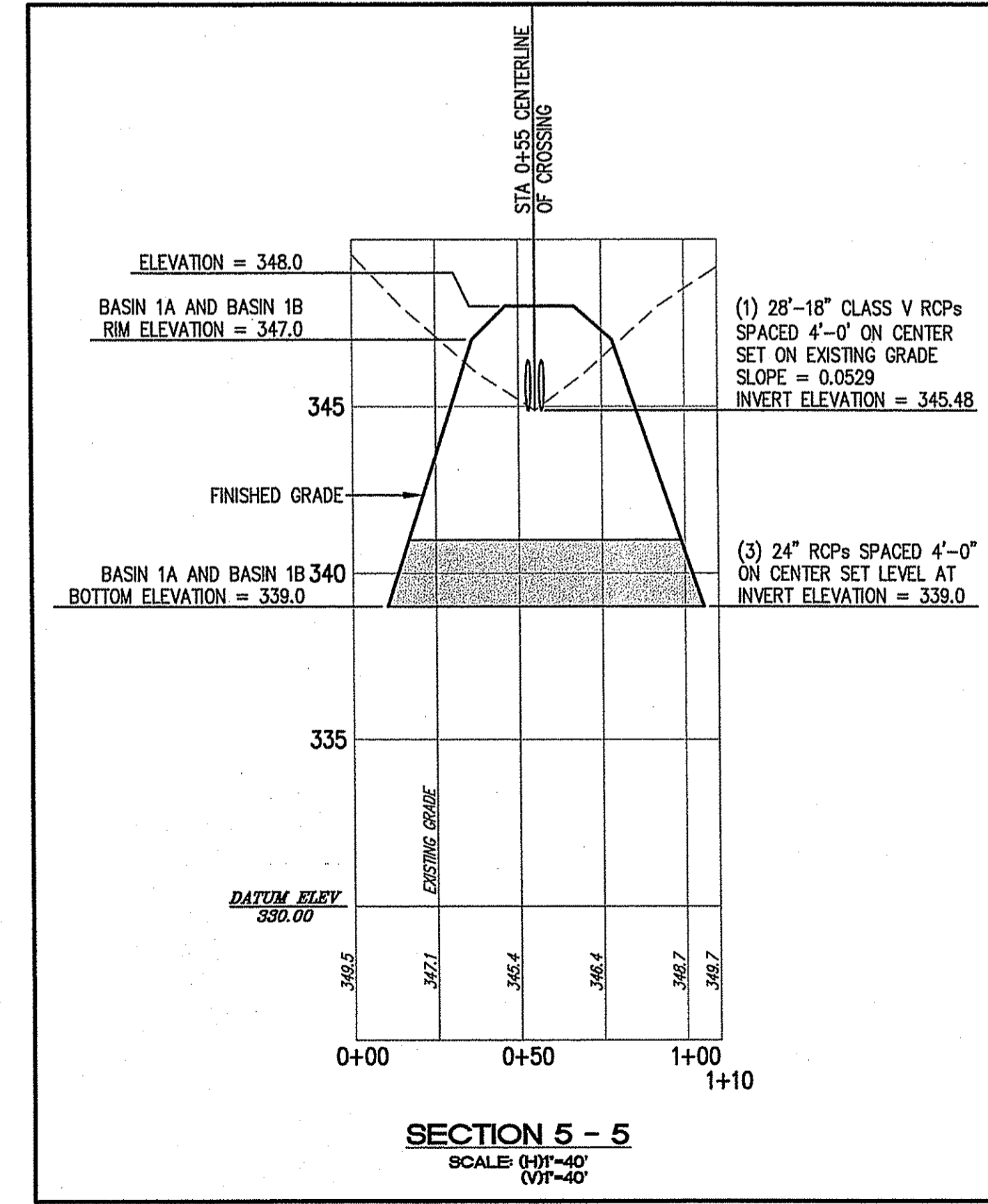
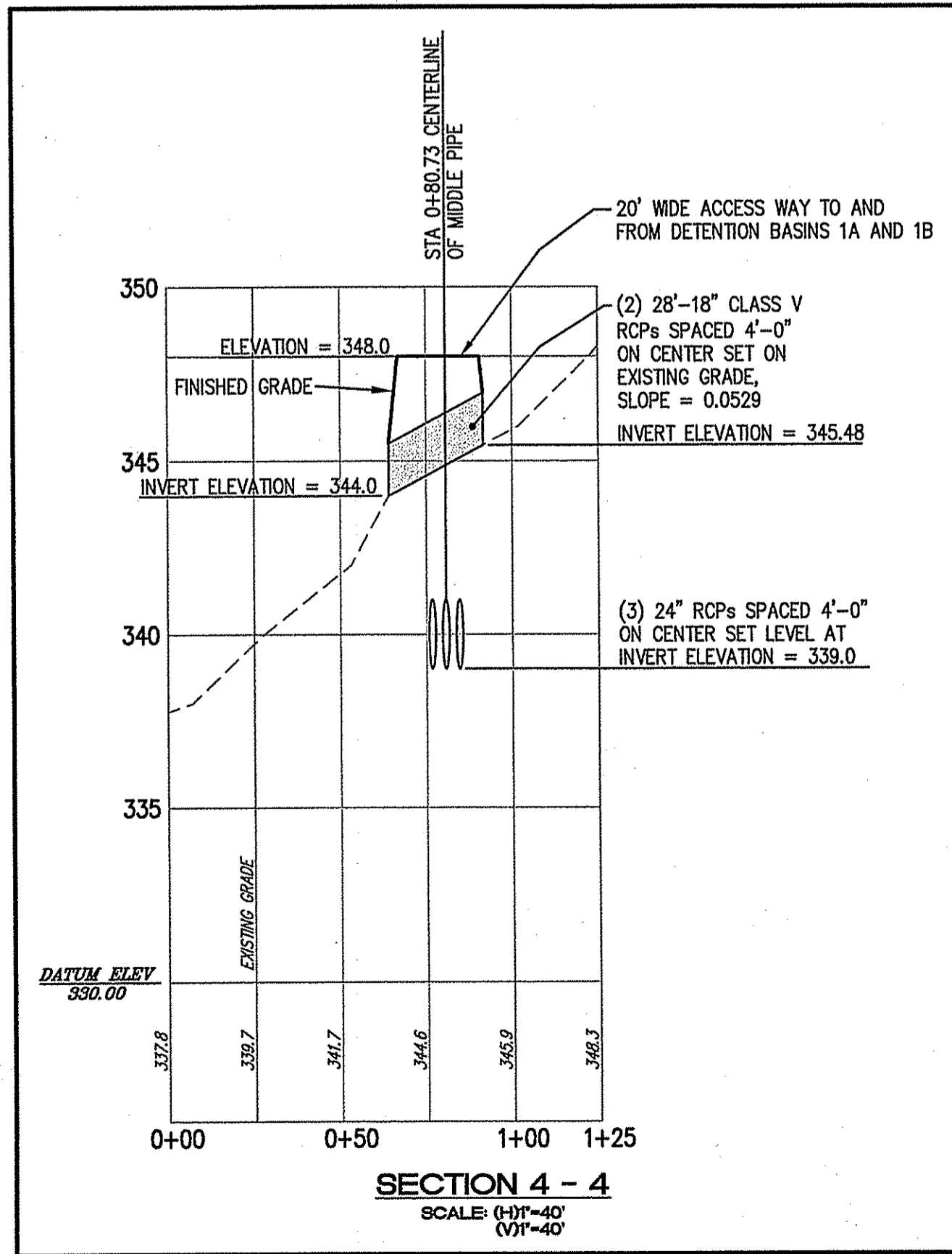
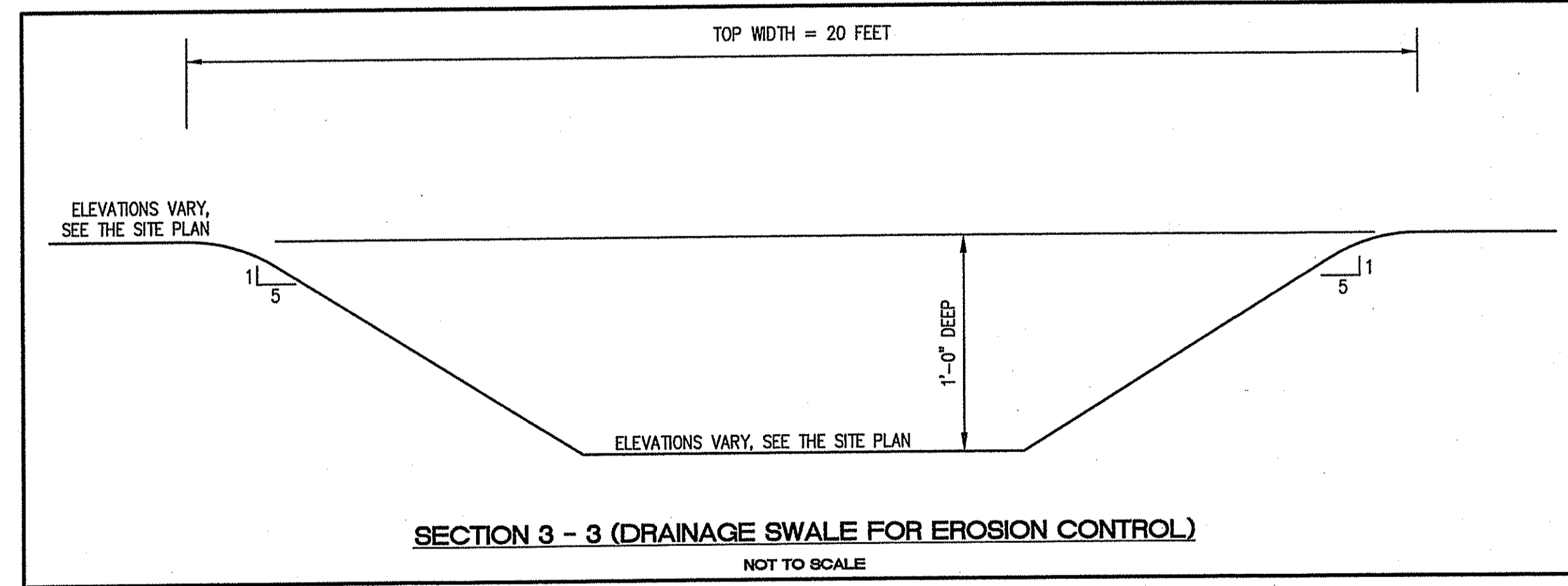
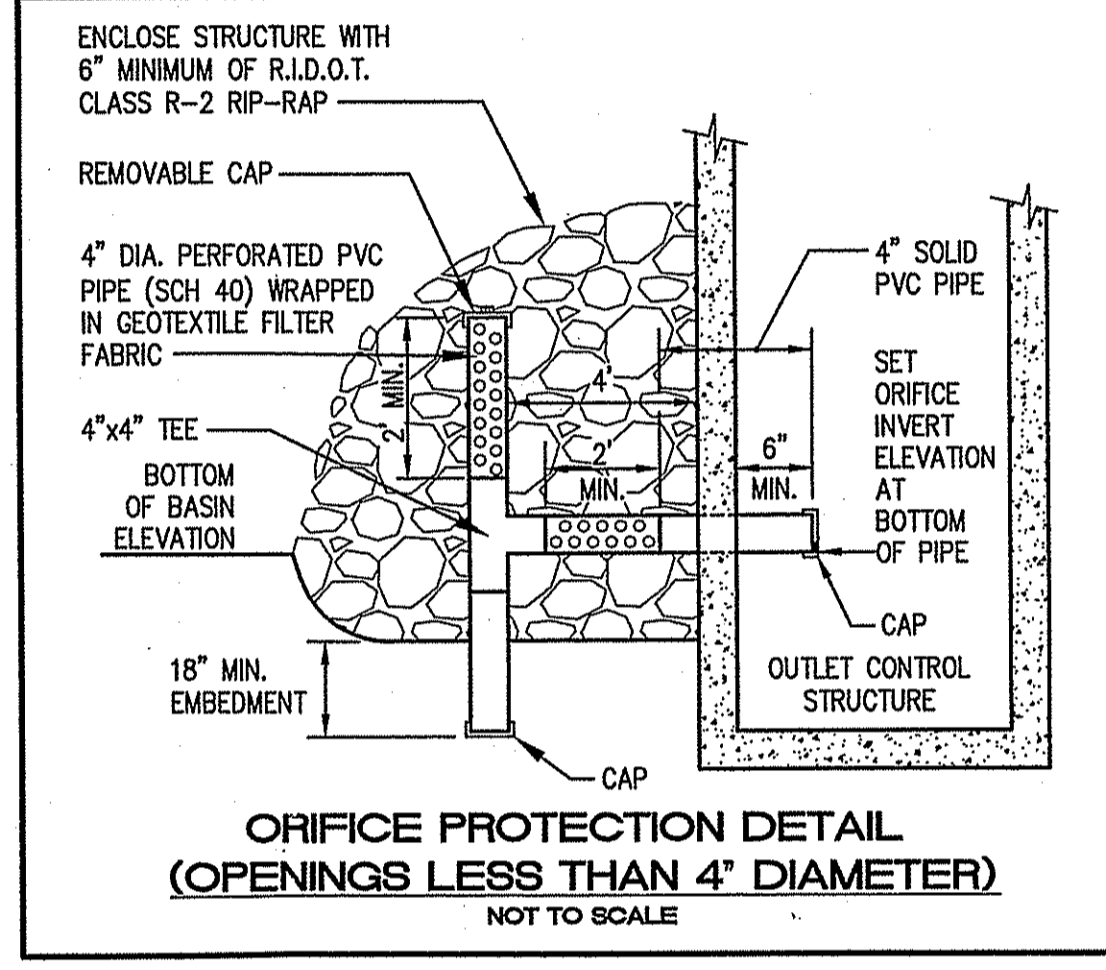
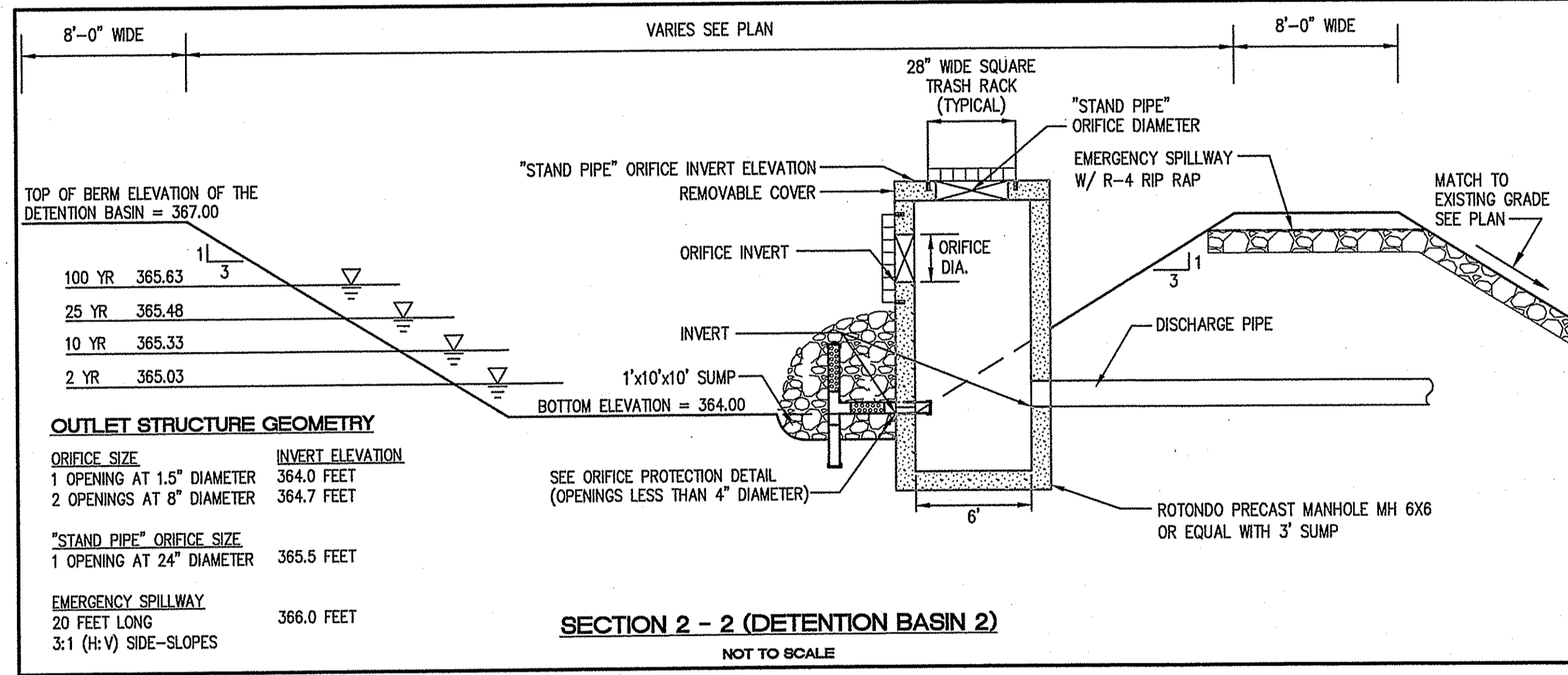
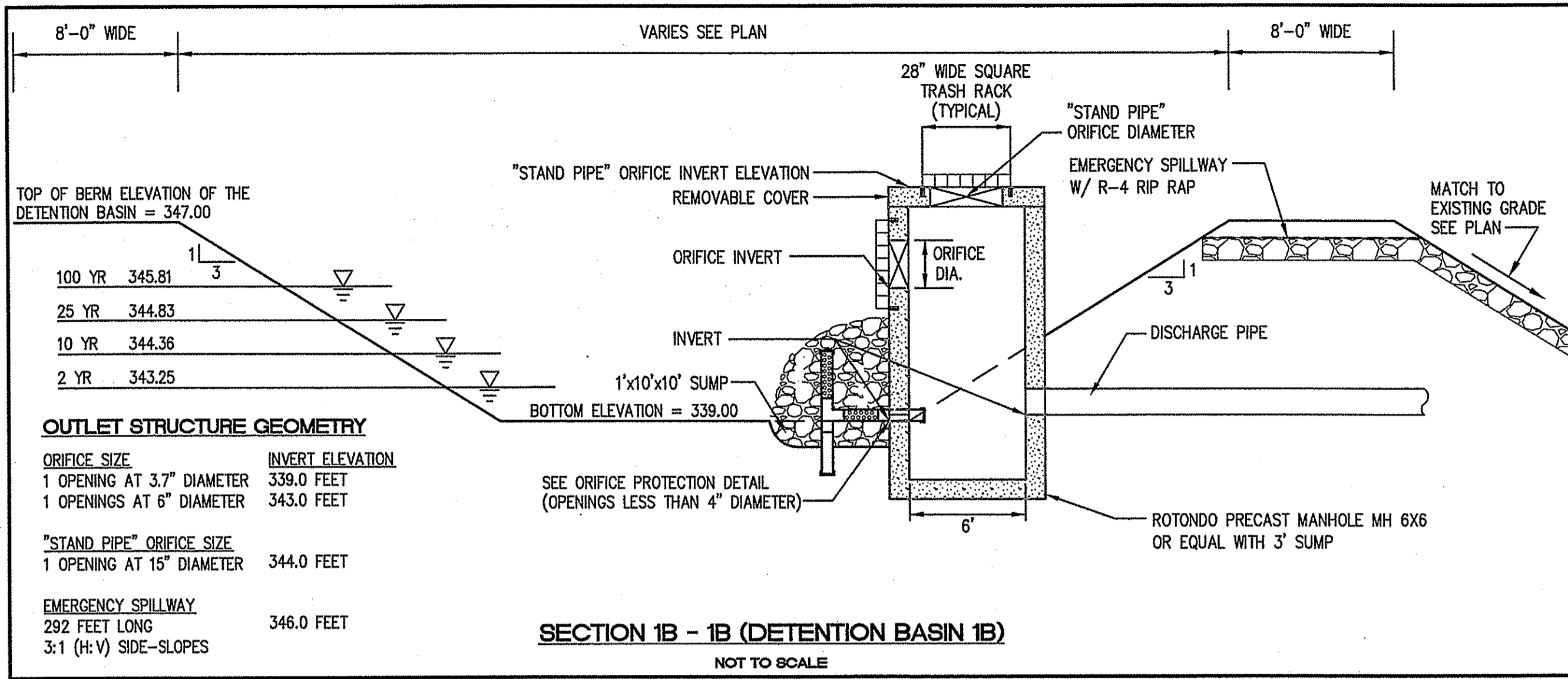
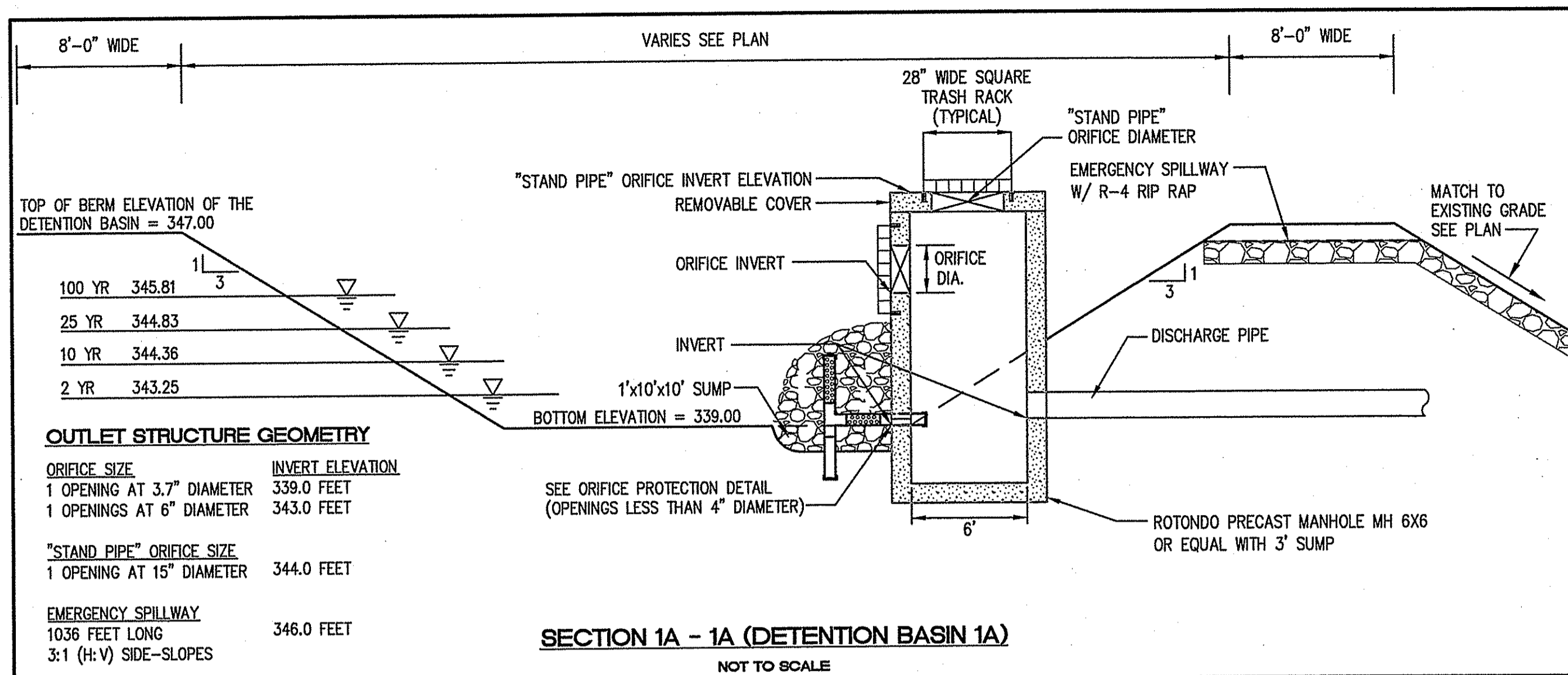
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Layout: Section - 5



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PROJECT NO: 131495  
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DESIGNED BY: S.Q.T.  
DRAWN BY: S.Q.T.  
CHECKED BY: J.P.C.

SECTIONS  
**SOIL EROSION PLAN**  
ASSESSOR'S PLAT 45, LOT 18  
AND ASSESSOR'S PLAT 46, LOT 75  
GEORGE WASHINGTON HIGHWAY  
RHODE ISLAND  
SMITHFIELD  
PREPARED FOR  
**JAKE DEVELOPMENT CO., LLC**

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**5**  
SHEET 5 OF 5

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