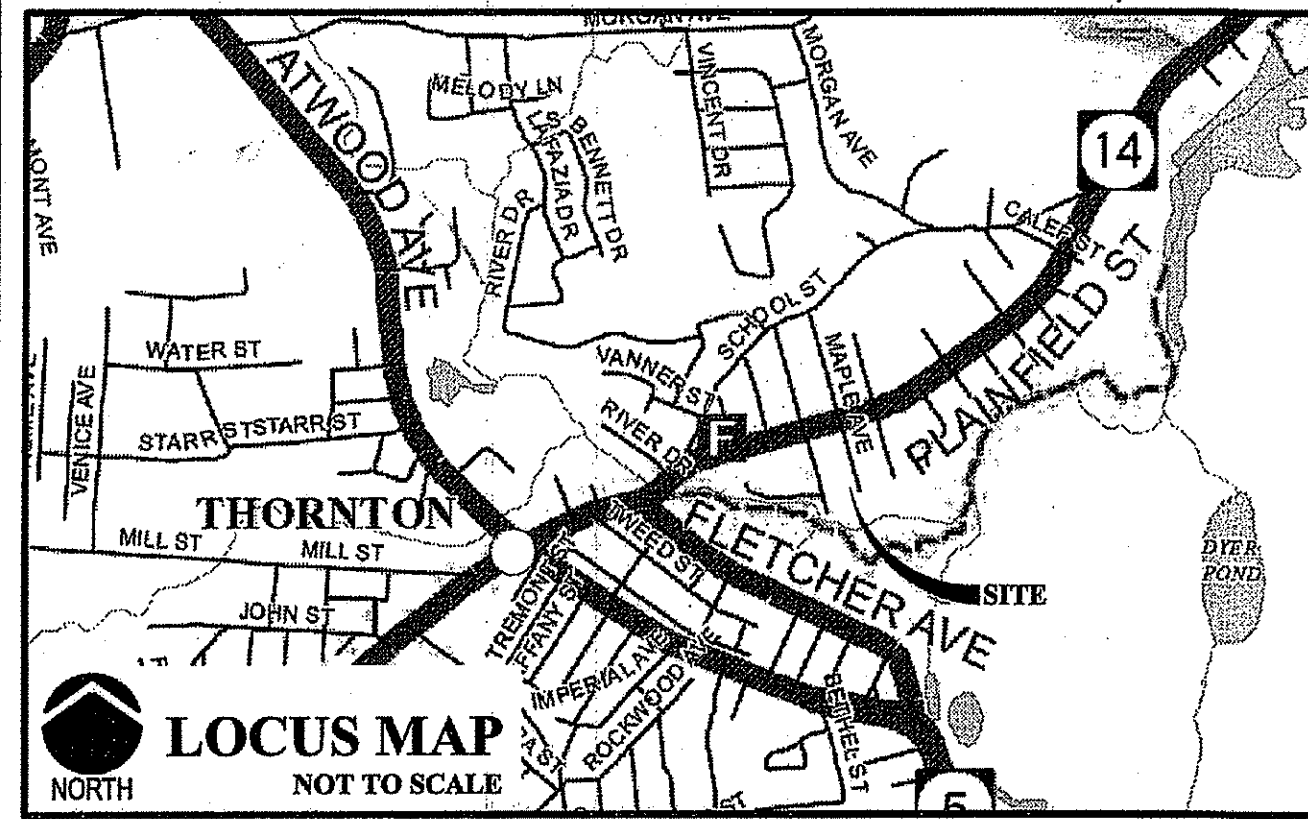


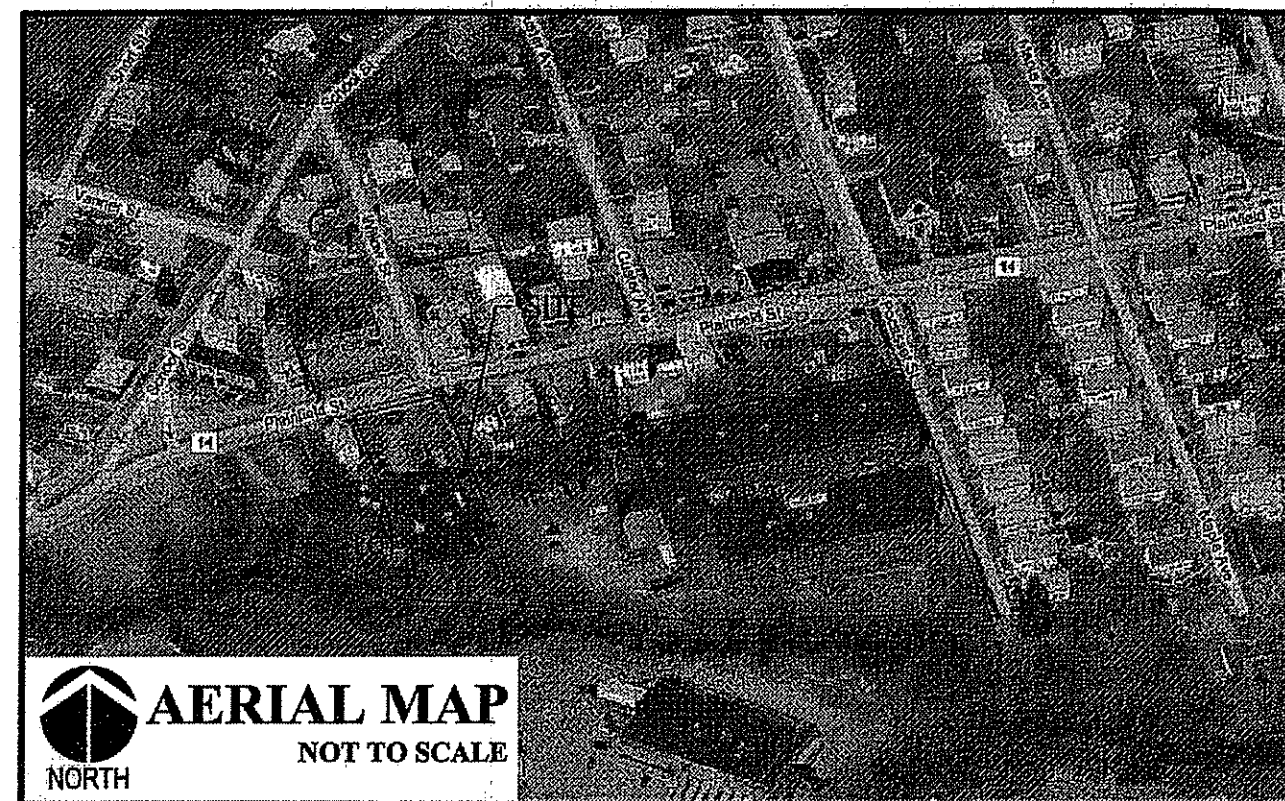
**A PROPOSED  
ACCESS DRIVEWAY FOR  
POCASSET MILLS**  
AP 2 LOT 134 & AP 3 LOT 422  
**PLAINFIELD STREET**  
**JOHNSTON, RI**  
ZONING DISTRICTS: R-7 & I



**OWNER/APPLICANT**  
POCASSET MILL LLC  
670 NORTH COMMERCIAL STREET  
MANCHESTER, NH 03101

**CIVIL ENGINEER**  
JOE CASALI ENGINEERING, INC.  
300 POST ROAD  
WARWICK, RI 02888  
PHONE: 401-944-1300  
FAX: 401-944-1313

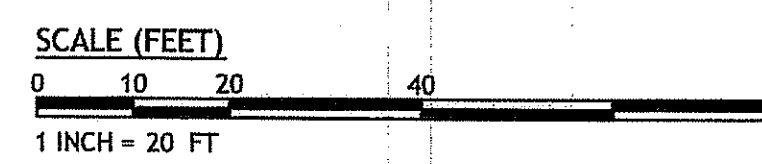
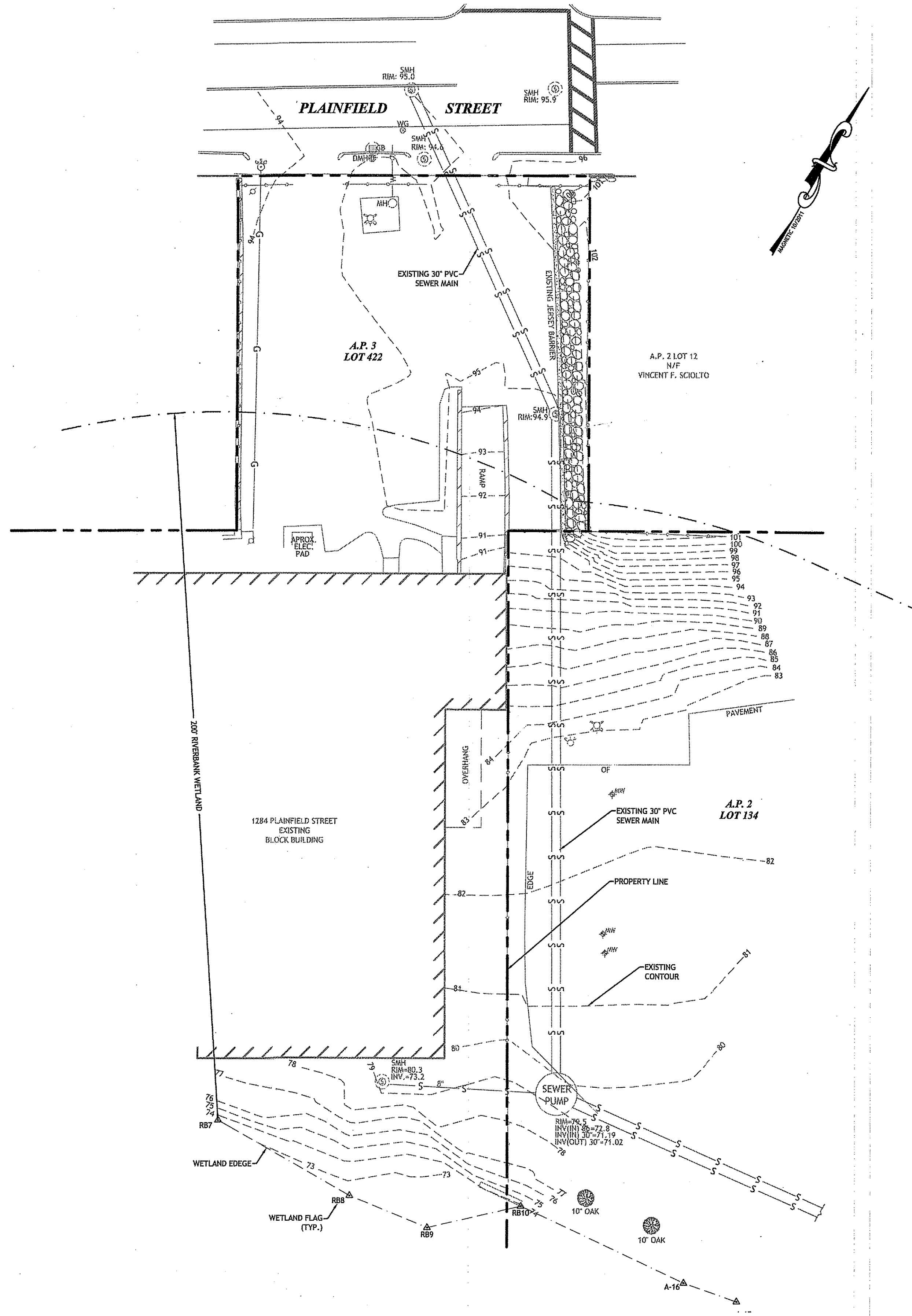
**SURVEYOR**  
INTERNATIONAL MAPPING  
& SURVEYING CORP.  
19 INDUSTRIAL DRIVE  
SMITHFIELD, RI 02904  
PHONE: 401-232-2620  
FAX: 401-232-3820



**LEGEND**

---	EXISTING PROPERTY LINE
---	ABUTTING PROPERTY LINE
---	BUILDING SETBACK LINE
---	EXISTING CONTOUR
---	PROPOSED CONTOUR
○	EXISTING STONE WALL
○	IRON ROD
●	DRILL HOLE
□	STONE BOUND
---	EXISTING EDGE OF PAVEMENT
---	UTILITY POLE
---	OVERHEAD WIRES
---	WATER LINE
---	WATER SHUT OFF VALVE
---	N/F --- NOW OR FORMERLY
---	TREE LINE
---	HAY BALES
---	LIMIT OF DISTURBANCE
---	SILT FENCE
+	TP SOIL EVALUATION

LOCATION OF EXISTING UTILITIES SHOWN, ARE FROM GATE LOCATION AND EXISTING DOCUMENTATION AND MAY NOT BE ACCURATE. EXACT LOCATION TO BE DONE BY THE APPROPRIATE UTILITY COMPANY OR MUNICIPALITY PRIOR TO ANY EXCAVATION  
CALL AT DIGSAFE 1-888-DIG-SAFE (1-888-344-7233)



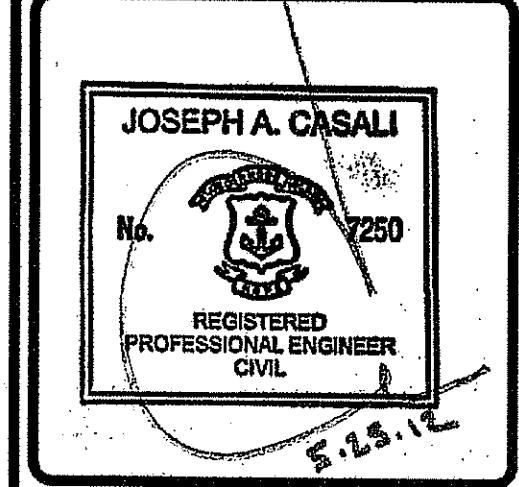
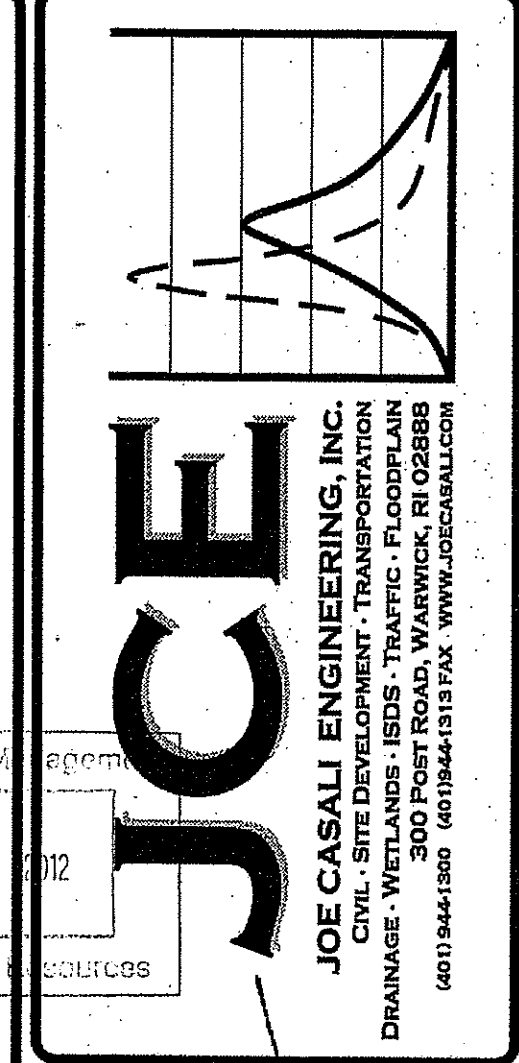
**GENERAL NOTES:**

1. CLASS I PROPERTY LINE SURVEY & CLASS III TOPOGRAPHIC SURVEY COMPLETED BY INTERNATIONAL MAPPING AND SURVEYING CORPORATION FOR AP 2 LOT 134. CLASS III TOPOGRAPHIC SURVEY COMPLETED BY INTERNATIONAL MAPPING AND SURVEYING CORPORATION FOR AP LOT 422 IN MARCH 2012.
2. THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "DIG-SAFE" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR CITY WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCE.
3. THIS SITE LIES IN ZONE AE (AREAS WHERE BASE FLOOD ELEVATIONS ARE 79') AND ZONE X (AREAS OF 500-YEAR FLOOD; AREAS OF 100-YEAR FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 100-YEAR FLOOD.), AS SHOWN ON THE FIRM MAP FOR THE TOWN OF JOHNSTON, RI COMMUNITY PANEL NO. 20, MAP REVISED NOVEMBER 17, 1993. THE FIRM MAPS HAVE BEEN REVISED FOR THE TOWN OF JOHNSTON AS OF MARCH 2, 2009. THE REVISED FIRM MAPS HAVE BEEN CONVERTED TO THE VERTICAL DATUM NAVD 88. THE PLANS HAVE NOT BEEN CONVERTED TO THE REVISED VERTICAL DATUM BECAUSE THEY HAVE BEEN APPROVED AND VESTED UNDER THE FIRM MAPS DATED NOVEMBER 17, 1993.
4. THE VERTICAL DATUM USED FOR THIS SURVEY WAS NGVD29. THE ELEVATION REFERENCE MARK USED FOR THIS SURVEY WAS RM 15 AS ESTABLISHED ON THE FIRM MAP FOR THE TOWN OF JOHNSTON, RI COMMUNITY PANEL NO. 20, MAP REVISED NOVEMBER 17, 1993. THE FIRM MAPS HAVE BEEN REVISED FOR THE TOWN OF JOHNSTON AS OF MARCH 2, 2009. THE REVISED FIRM MAPS HAVE BEEN CONVERTED TO THE VERTICAL DATUM NAVD 88. THE PLANS HAVE NOT BEEN CONVERTED TO THE REVISED VERTICAL DATUM BECAUSE THEY HAVE BEEN APPROVED AND VESTED UNDER THE FIRM MAPS DATED NOVEMBER 17, 1993.
5. SOILS EXISTING ON THE SITE ARE MERRIMAC-URBAN LAND COMPLEX (MU) AND RUMNEY (Ru), HYDROLOGIC SOIL GROUPS A AND C RESPECTIVELY.
6. THIS SITE FALLS UNDER THE JURISDICTION OF RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, DUE TO THE JURISDICTIONAL BUFFER ASSOCIATED WITH THE POCASSET RIVER.
7. WETLAND RESOURCES FOR AP 2 LOT 134 DELINEATED BY JOE CASALI ENGINEERING, INC. IN DECEMBER 2007 AND WETLAND RESOURCES FOR AP 3 LOT 422 DELINEATED BY ECOSYSTEMS INC. IN MARCH 2012.

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 JUL 20 2012 FILE # 12-0294  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

**SURVEY CERTIFICATION**  
INTERNATIONAL MAPPING & SURVEYING CORP.  
LAND SURVEYING CIVIL ENGINEERING PHOTOGRAMMETRIC MAPPING  
19 INDUSTRIAL DRIVE, SMITHFIELD, R.I. 02917 (401) 232-2620



**PROPOSED ACCESS DRIVEWAY  
FOR POCASSET MILLS**  
PLAINFIELD STREET  
JOHNSTON, RHODE ISLAND  
AP 2, LOT 134 & AP 3, LOT 422

REVISIONS:

NO.	DATE	DESCRIPTION

DESIGNED BY: GEC  
DRAWN BY: WMLR  
CHECKED BY: JAC  
DATE: APRIL 2012  
PROJECT NO: 07-105

PRELIMINARY,  
NOT FOR CONSTRUCTION

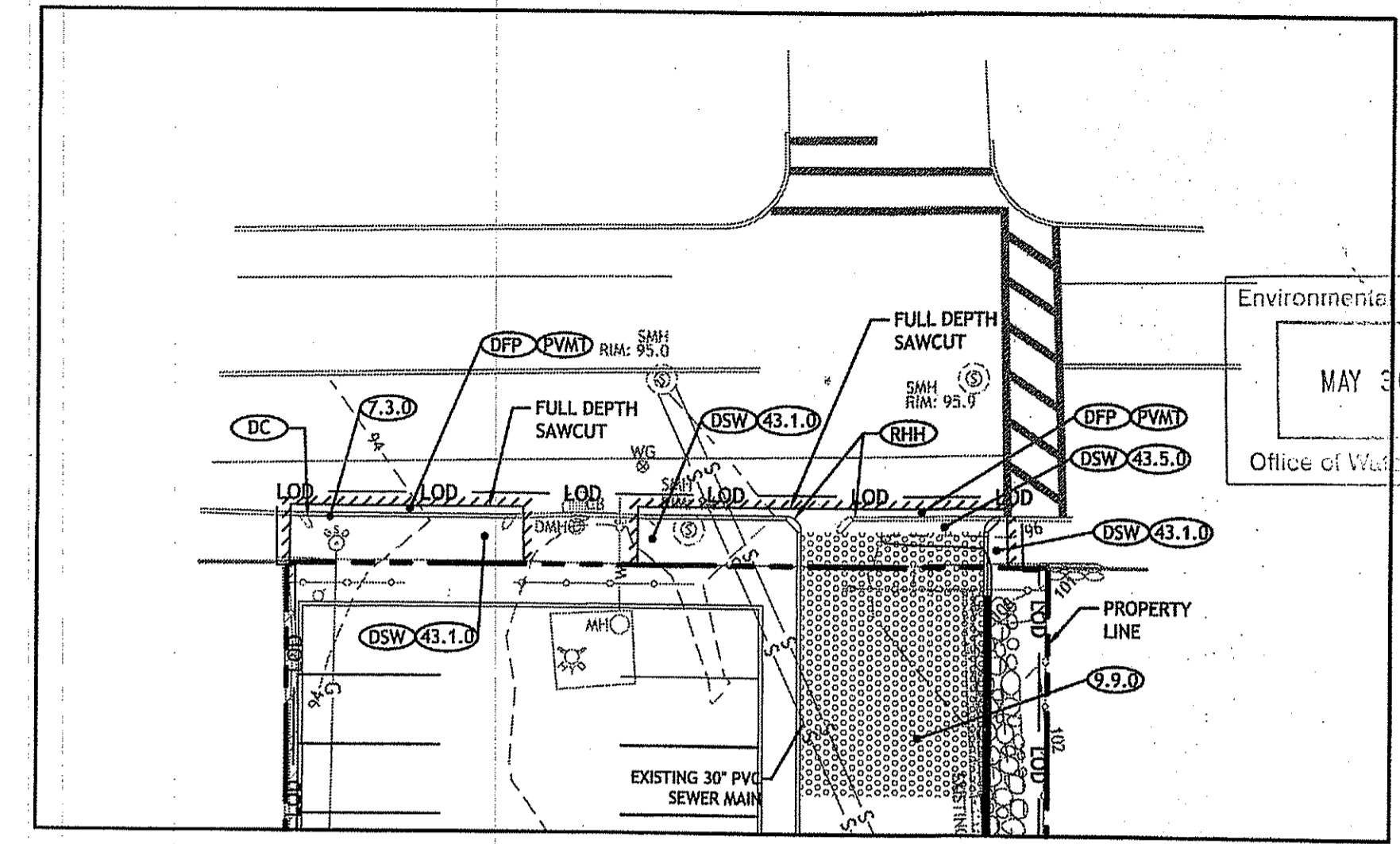
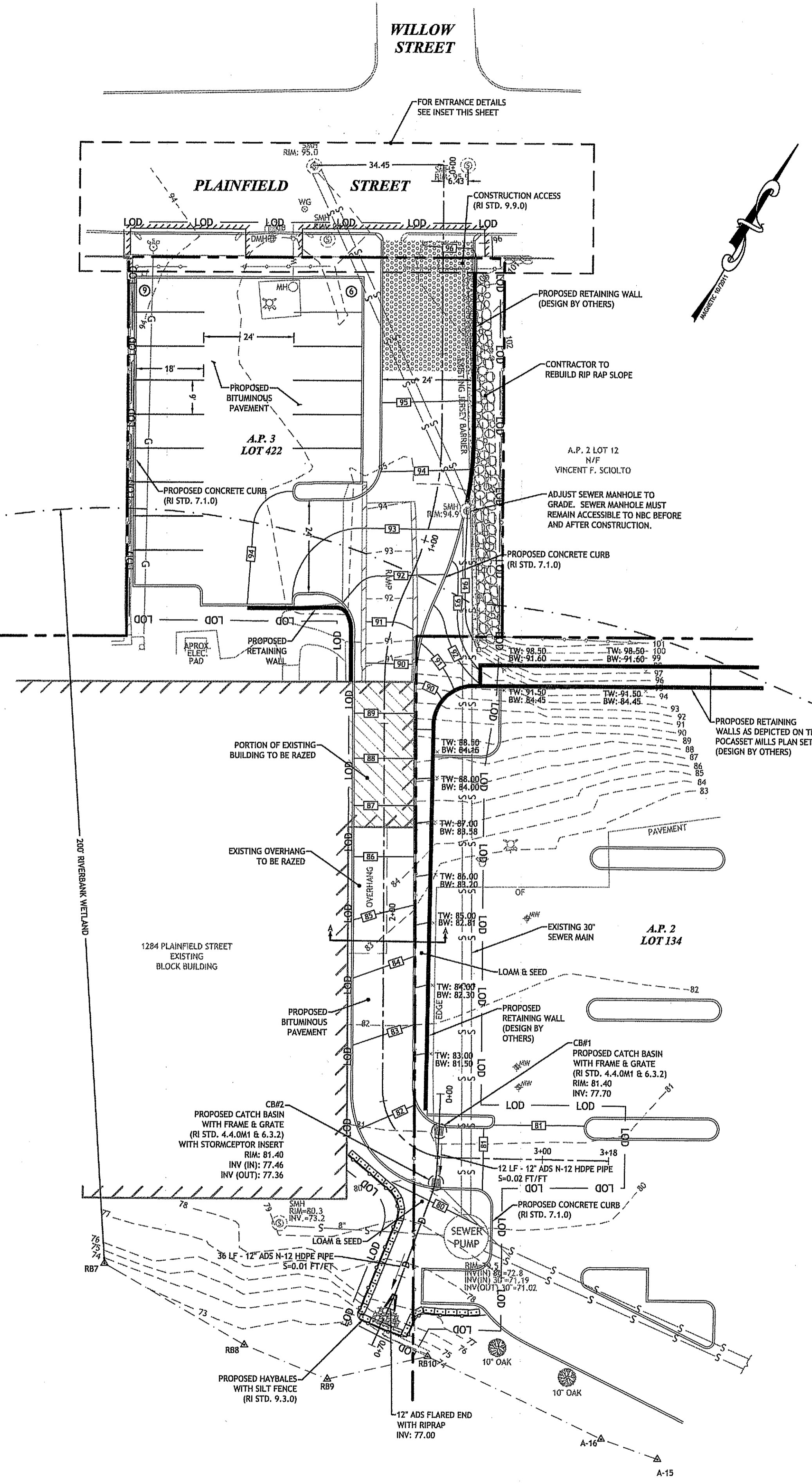
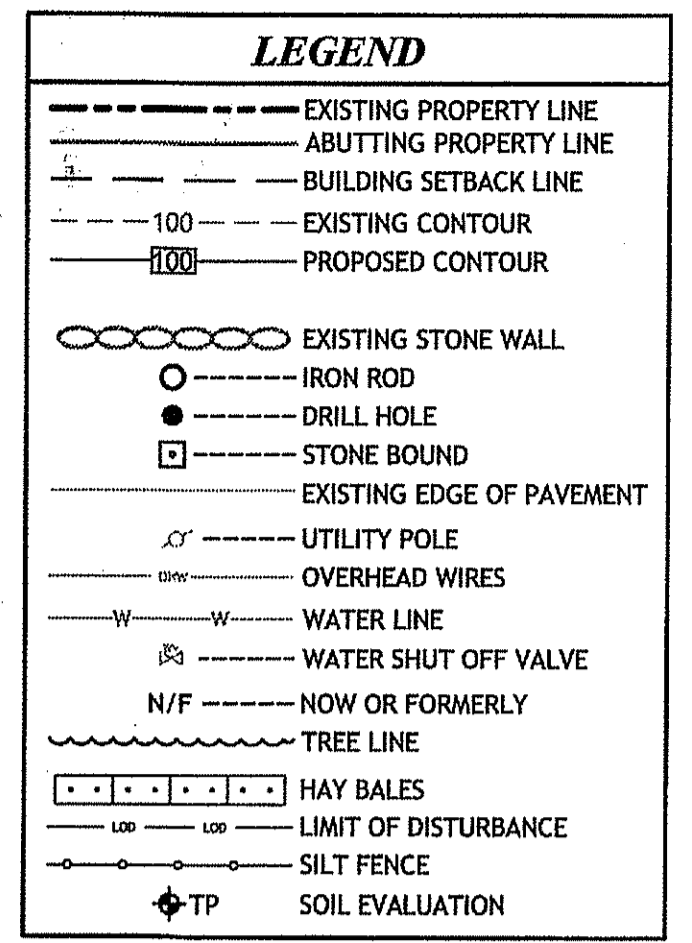
**EXISTING  
CONDITIONS  
PLAN**

**SHEET  
1 OF 4**

- SITE NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (RED) OF ALL MATERIALS INDICATED ON THE PLANS.
  - STOCKPILES OF EARTH MATERIALS SHALL NOT BE LOCATED ADJACENT TO DRAINAGE STRUCTURES.
  - ALL DISTURBED AREAS OUTSIDE OF THE PAVED AREAS WILL RECEIVE A MINIMUM OF 6" OF LOAM AND SEED.
  - THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SURVEY LAYOUT SERVICES FOR THE WORK AND SHALL SUBMIT "AS-BUILT" DRAWINGS OF ALL WORK, WHICH SHALL BE STAMPED AND CERTIFIED BY A RHODE ISLAND REGISTERED PROFESSIONAL LAND SURVEYOR OR RHODE ISLAND REGISTERED PROFESSIONAL ENGINEER.
  - ANY ITEM OF WORK NOT SPECIFICALLY INDICATED ON THE PLANS BUT IS REQUIRED FOR THE COMPLETE CONSTRUCTION OF THE PROJECT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND INCLUDED IN THE CONTRACT BID PRICE. IT WILL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS.
  - REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR ACTUAL SIZE OF THE PROPOSED BUILDING.
  - WHERE NECESSARY TO REMOVE CURBS, CATCH BASINS OR DRAINS TO COMPLETE WORK, THE CONTRACTOR SHALL REPLACE SUCH ITEMS TO THE SATISFACTION OF THE TOWN AT NO ADDITIONAL COST TO THE OWNER.
  - ANY EXISTING PIPE OR UTILITY DAMAGED BY THE CONTRACTORS OPERATIONS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE OWNER OR THE TOWN.
  - THE CONTRACTOR SHALL RESTORE TO ITS ORIGINAL CONDITION OR REPLACE TREES, SHRUBS, FENCES, SIGNS, GUARDRAILS, DRIVEWAYS, SIDEWALKS AND ANY OTHER OBJECT AFFECTED BY THIS OPERATION.
  - THE TOPS OF ALL VALVE BOXES AND CURB BOXES SHALL BE FLUSH WITH GROUND OR PAVEMENT SURFACE LEVEL AND PLUMB, UNLESS OTHERWISE DIRECTED.
  - ROADWAYS SHALL BE LEFT PASSABLE AT ALL TIMES. CLOSURE OF ROADWAY IS NOT PERMITTED.
  - THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL DRIVEWAYS AT COMPLETION OF EACH DAYS WORK.
  - WATER SERVICE SHALL BE MAINTAINED AT ALL TIMES.
  - ALL LEDGE TO BE REMOVED BY MECHANICAL MEANS.
  - ALL CONSTRUCTION WORK SHALL BE PERFORMED IN THE DRY. THE CONTRACTOR SHALL PROVIDE, OPERATE AND MAINTAIN ALL PUMPS, DRAINS, WET POINTS, SCREENS, OR OTHER FACILITIES NECESSARY TO CONTROL, COLLECT AND DISPOSE OF ALL SURFACE AND SUBSURFACE WATER ENCOUNTERED IN THE PERFORMANCE OF THE WORK.
  - REFER TO MECHANICAL PLANS FOR CONTINUATION OF ALL UTILITIES WITHIN 5' (FIVE) FEET OF THE BUILDING.
  - ALL SITE WORK, INCLUDING BUT NOT LIMITED TO, BITUMINOUS PAVEMENT, ROADWAY CONSTRUCTION, AGGREGATE MATERIALS, DRAINAGE STRUCTURES, CURBING, SIDEWALK, LANDSCAPING, SAW CUTTING, ETC. SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION, 2004 EDITION (WITH LATEST ADDENDA) AND THE RIDOT STANDARD DETAILS, 1998 EDITION (WITH LATEST ADDENDA).

- MISCELLANEOUS UTILITY NOTES:**
- PRIOR TO CONSTRUCTION ALL POTENTIAL UTILITY/DRAINAGE CONFLICTS MUST BE IDENTIFIED BY THE CONTRACTOR. ANY MODIFICATIONS TO THE PROPOSED UTILITIES TO AVOID CONFLICTS MUST BE APPROVED BY THE DESIGN ENGINEER PRIOR TO CONSTRUCTION. NO EXTRA PAYMENT TO THE CONTRACTOR DUE TO RELOCATIONS WILL BE AUTHORIZED.
  - IF REQUIRED, OVERHEAD ELECTRIC AND TELEPHONE SERVICES ARE TO BE REMOVED BY THE APPROPRIATE UTILITY COMPANY AND COORDINATED BY THE CONTRACTOR.
  - THE CONTRACTOR SHALL AT ALL TIMES PROVIDE A SUFFICIENT NUMBER OF WORKMEN AND GUARDS AS MAY BE NECESSARY TO PROPERLY SAFEGUARD THE PUBLIC FROM THEIR OPERATIONS.
  - THE CONTRACTOR SHALL TAKE PRECAUTIONS AGAINST DAMAGING OF PAVING, SIDEWALKS, UTILITIES, OR PRIVATE PROPERTIES AND SHALL PROMPTLY REPAIR AT HIS OWN EXPENSE ANY DAMAGE TO SUCH PAVING, SIDEWALKS, UTILITIES, OR PRIVATE PROPERTIES TO THE SATISFACTION OF THE OWNER OR TOWN.

- SOIL EROSION AND SEDIMENTATION CONTROL NOTES:**
- THE HAYBALE AND/OR SILT FENCE LINE ILLUSTRATED ON THESE PLANS SHALL SERVE AS THE STRICT LIMIT OF DISTURBANCE FOR THE PROJECT WITHIN OR ADJACENT TO REGULATED FRESHWATER WETLAND AREAS.
  - THE LIMITS OF CLEARING, GRADING, AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED CONSTRUCTION AREA. ALL AREAS OUTSIDE OF THESE LIMITS, AS DEPICTED ON THE PLAN SHALL BE TOTALLY UNDISTURBED, TO REMAIN IN NATURAL CONDITION.
  - ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED, PROTECTED AND MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL REGULARLY CHECK ALL SEEDED AREAS TO ENSURE THAT A GOOD STAND IS MAINTAINED.
  - ALL HAYBALES, TEMPORARY TREATMENT (HAY, STRAW, ETC.) AND TEMPORARY EROSION PROTECTION 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.
  - STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES OF NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDED AND/OR STABILIZED PER CONTRACT SPECIFICATIONS.
  - THE HAYBALES/SILT FENCE SHALL BE CHECKED BY THE CONTRACTOR ON A WEEKLY BASIS AND AFTER EACH STORM FOR UNDERMINING OR DETERIORATION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY HAYBALES AS NEEDED. THE CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE HAY-BALES BECOMES FILLED WITH SEDIMENTS.
  - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL SOIL EROSION AND SEDIMENT CONTROLS ON THE PROJECT SITE FOR THE ENTIRE DURATION OF THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL FOLLOW THE DIRECTION OF THE RESIDENT ENGINEER WITH REGARD TO INSTALLATION, MAINTENANCE, AND REPAIR OF ALL SOIL EROSION AND SEDIMENTATION CONTROLS ON THE PROJECT SITE. TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROLS (HAYBALES, SILT FENCE, ETC.) SHALL BE MAINTAINED UNTIL ALL EXPOSED SOILS ARE SATISFACTORILY STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND/OR RESEEDING ALL AREAS THAT DO NOT DEVELOP WITHIN ONE YEAR FROM THE COMPLETION OF CONSTRUCTION.
  - ALL REFERENCED SOIL EROSION AND SEDIMENTATION CONTROLS INCLUDING MATERIALS USED, APPLICATION RATES AND THE INSTALLATION PROCEDURES SHALL BE PERFORMED PER THE "RHODE ISLAND EROSION AND SEDIMENTATION HANDBOOK", DATED 1993.



**RIDOT PHYSICAL ALTERATION PERMIT PLAN**  
SCALE: 1" = 20'

**RHODE ISLAND STANDARDS**

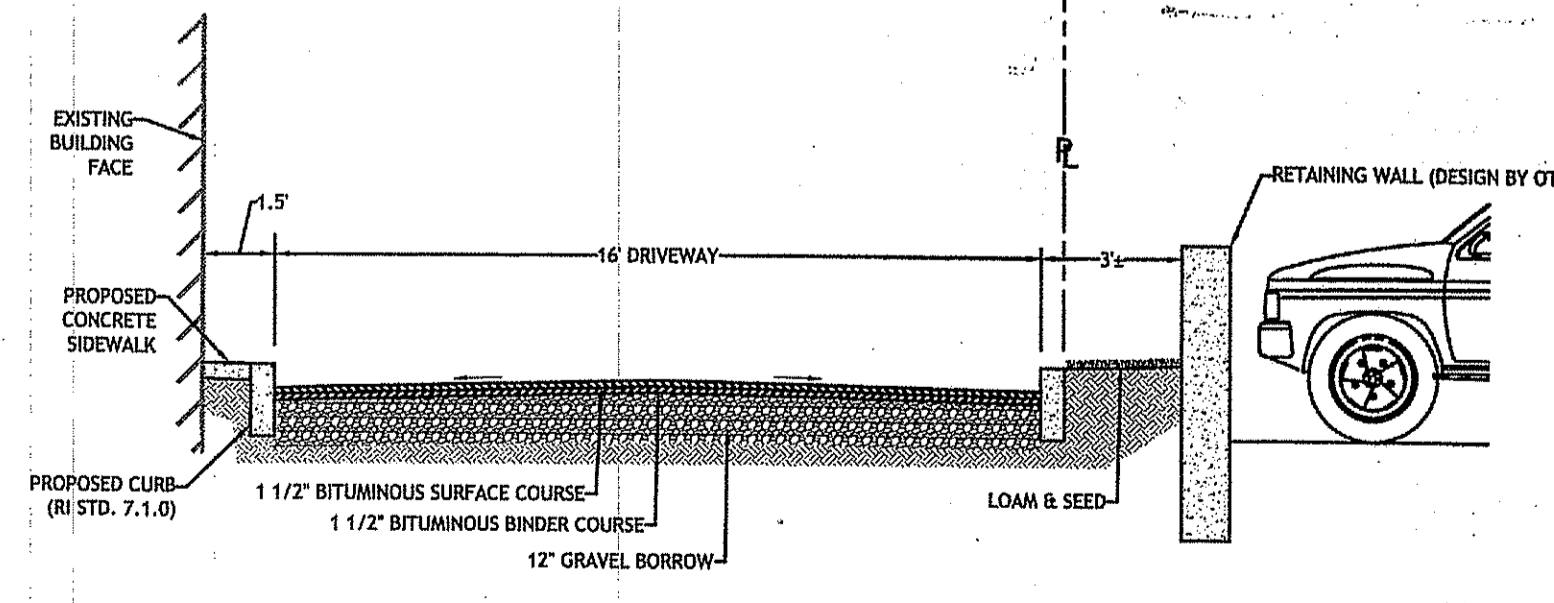
- 7.3.0 GRANITE CURB
- 9.9.0 CONSTRUCTION ACCESS
- 43.1.0 CONCRETE SIDEWALK
- 43.5.0 CEMENT CONCRETE DRIVEWAY

- DC REMOVE AND DISPOSE CURB
- DFF REMOVE AND DISPOSE FLEXIBLE PAVEMENT
- DSW REMOVE AND DISPOSE SIDEWALK
- PVMT REPLACE PAVEMENT IN-KIND
- RHH REMOVE, HANDLE, HAUL, TRIM, RESET CURB EDGING, STRAIGHT, CIRCULAR (ALL TYPES)

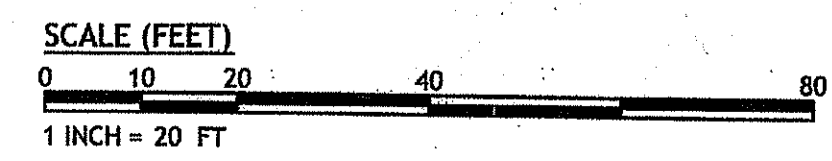
- NOTES:**
- ALL WORK WITHIN THE STATES RIGHT-OF-WAY SHALL CONFORM TO RIDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2010 EDITION INCLUDING ALL REVISIONS AND STANDARD DETAILS, JUNE 15, 1998 AS AMENDED BY REVISION.
  - UTILITY WORK SHOWN AS REFERENCE. THIS WORK NEEDS TO BE PERMITTED THROUGH A UTILITY PHYSICAL ALTERATION PERMIT (PAP) WITH RIDOT'S DIVISION OF MAINTENANCE.

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 JUL 20 2012 FILE # 12-0094  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT COMPLETION ON SITE



**PROPOSED DRIVEWAY SECTION A-A**  
SCALE: 1" = 4'



**JOE CASALI ENGINEERING, INC.**  
CIVIL - SITE DEVELOPMENT - TRANSPORTATION  
DRAINAGE - WETLANDS - IEDS - TRAFFIC - FLOODPLAIN  
100 WEST ROAD, WARWICK, RI 02888  
(401) 841-1100

**JOSEPH A. CASALI**  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL  
6.24.12

**PROPOSED ACCESS DRIVEWAY FOR POCASSET MILLS**  
PLAINFIELD STREET  
JOHNSTON, RHODE ISLAND  
AP 2, LOT 134 & AP 3, LOT 422

**REVISIONS:**

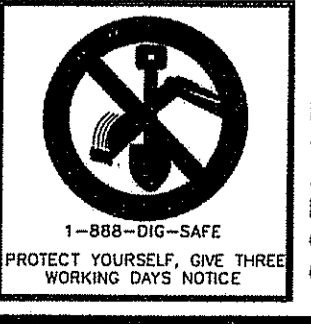
NO.	DATE	DESCRIPTION

DESIGNED BY: GEC  
DRAWN BY: WMLJR  
CHECKED BY: JAC  
DATE: APRIL 2012  
PROJECT NO: 07-105

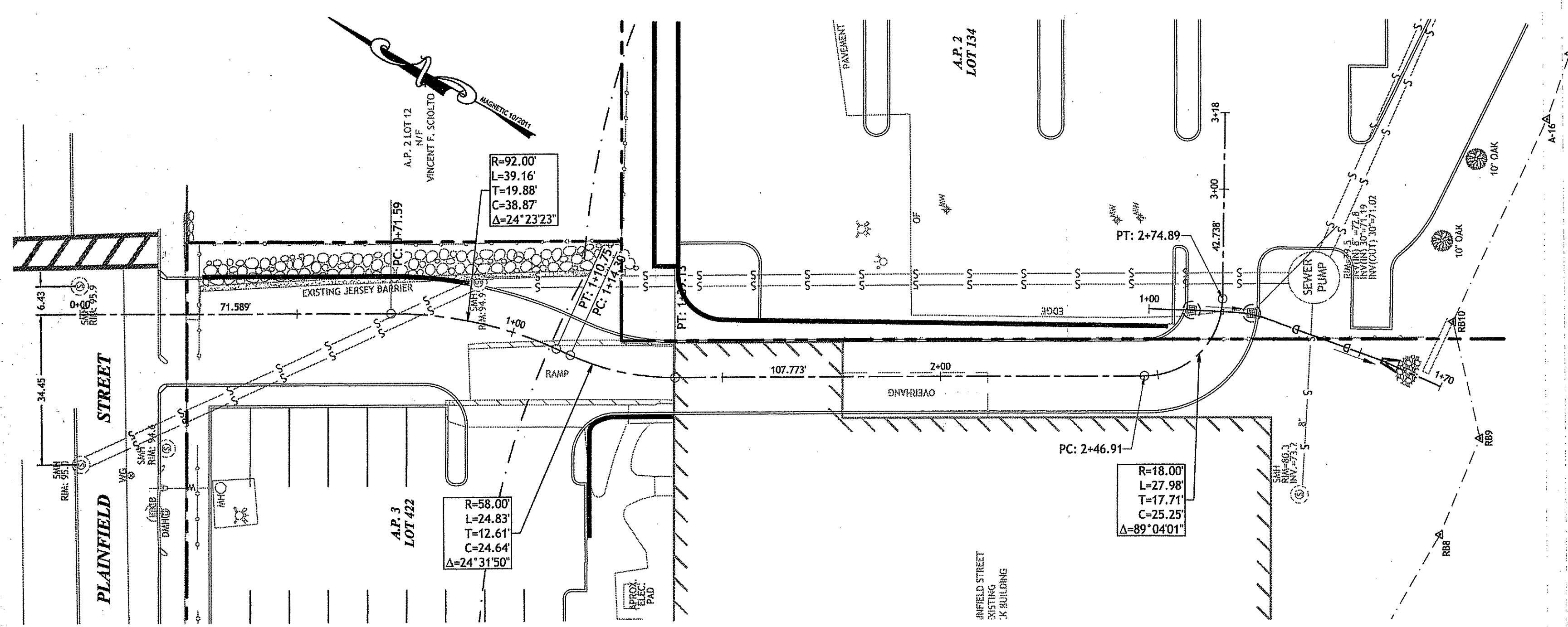
PRELIMINARY,  
NOT FOR CONSTRUCTION

**SITE & GRADING PLAN**

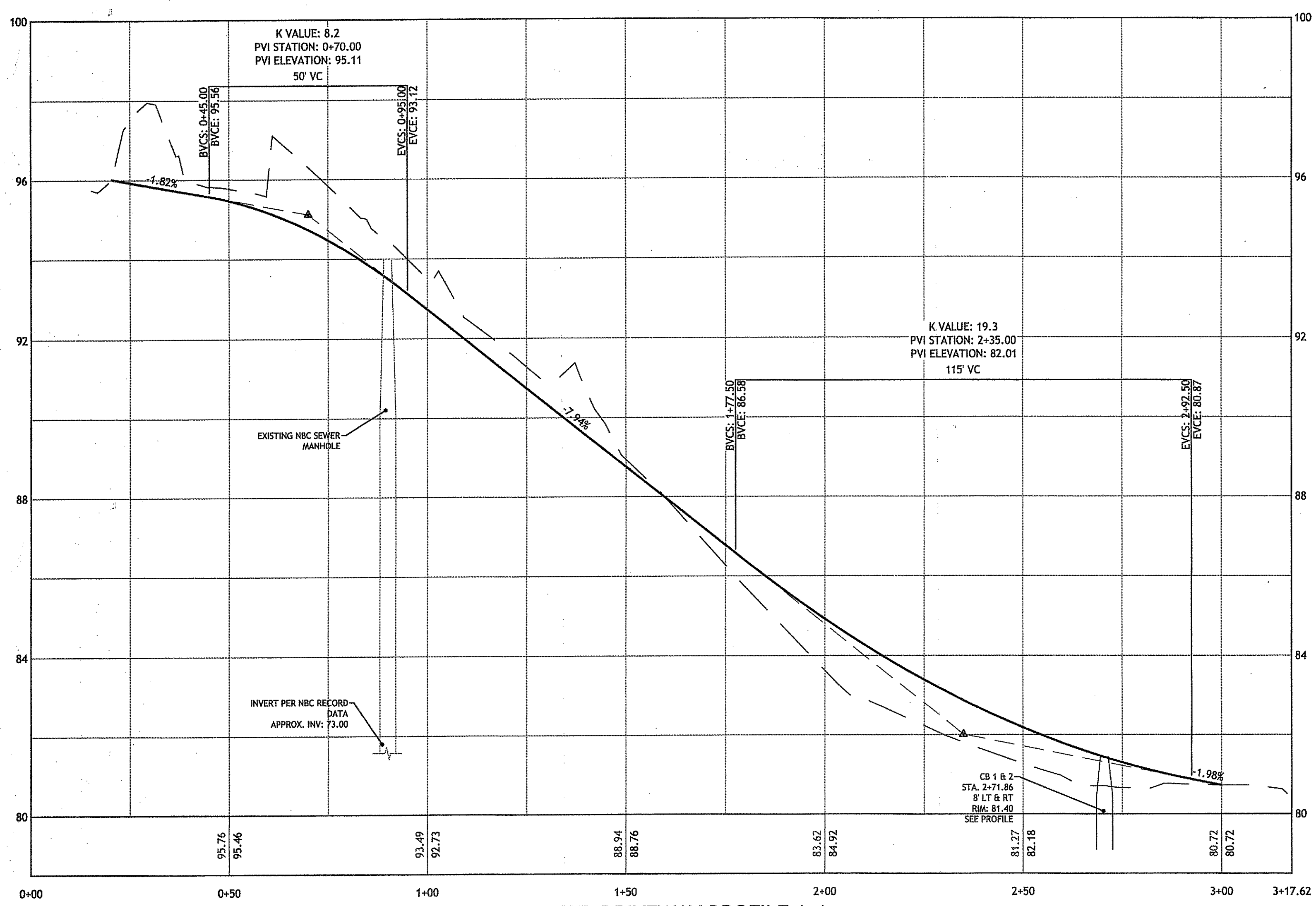
**SHEET 2 OF 4**



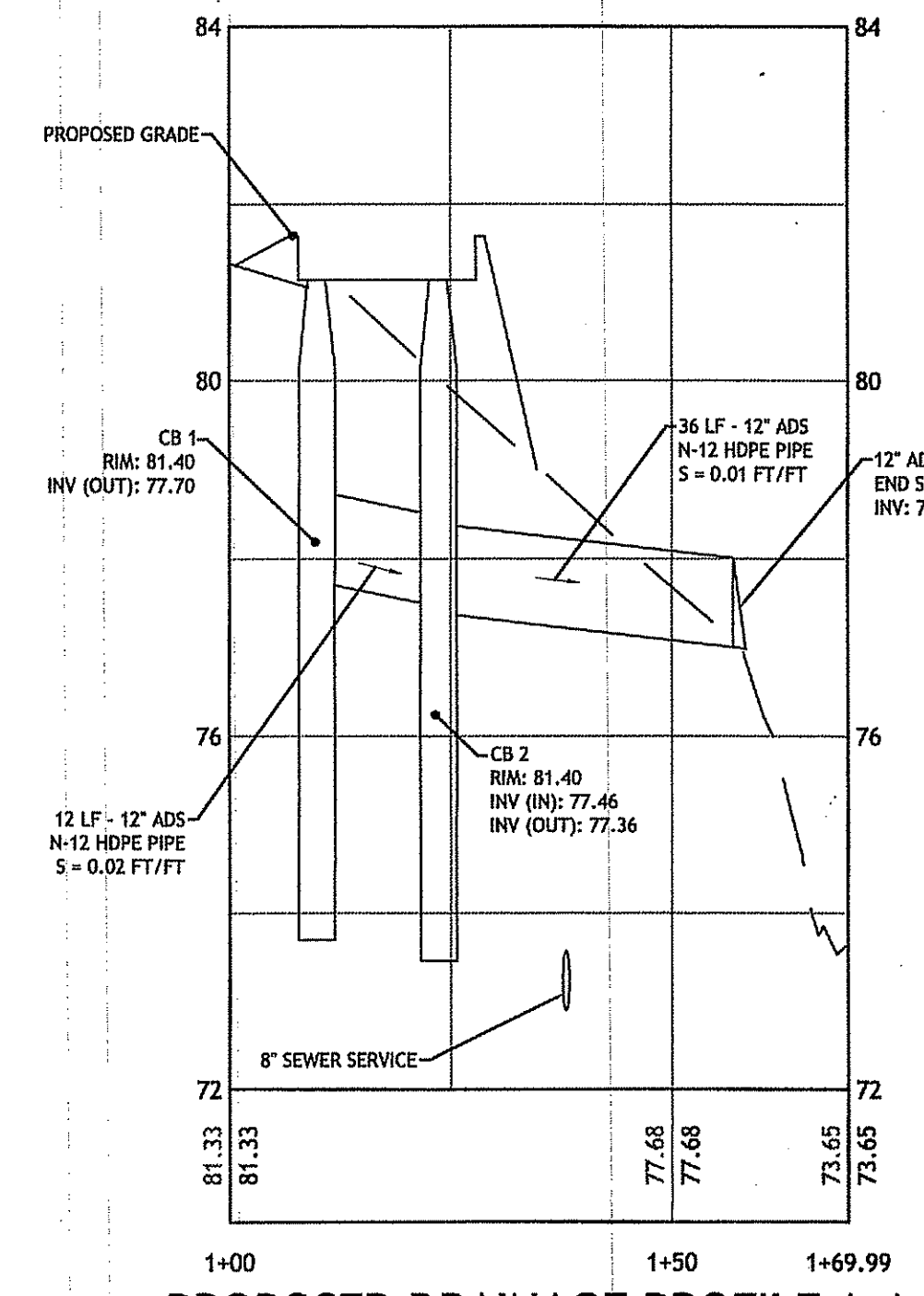
LOCATION OF EXISTING UTILITIES SHOWN, ARE FROM GATE LOCATION AND EXISTING DOCUMENTATION AND MAY NOT BE ACCURATE. EXACT LOCATION TO BE DONE BY THE APPROPRIATE UTILITY COMPANY OR MUNICIPALITY PRIOR TO ANY EXCAVATION  
**CALL AT DIGSAFE 1-888-DIG-SAFE (1-888-344-7233)**



PLAN VIEW  
SCALE: 1"=20'



PROPOSED DRIVEWAY PROFILE A-A  
HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=2'



PROPOSED DRAINAGE PROFILE A-A  
HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=2'

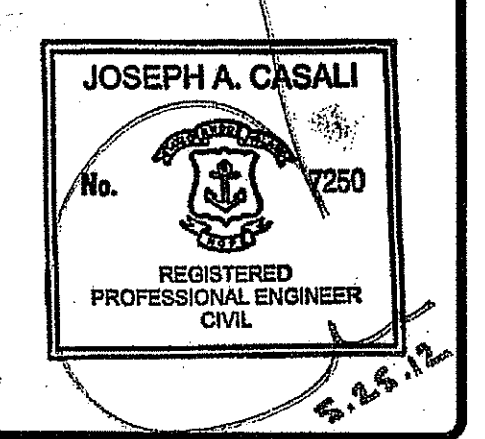
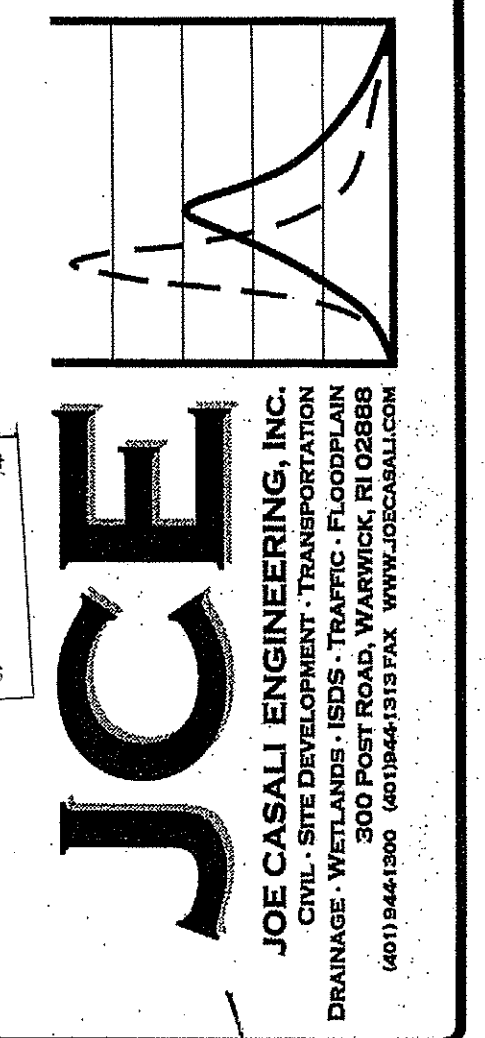
**LEGEND**

- EXISTING PROPERTY LINE
- - - ABUTTING PROPERTY LINE
- - - BUILDING SETBACK LINE
- - - EXISTING CONTOUR
- ▭ PROPOSED CONTOUR
- EXISTING STONE WALL
- IRON ROD
- DRILL HOLE
- STONE BOUND
- - - EXISTING EDGE OF PAVEMENT
- UTILITY POLE
- OVERHEAD WIRES
- W-W WATER LINE
- ⊗ WATER SHUT OFF VALVE
- N/F NOW OR FORMERLY
- TREE LINE
- HAY BALES
- LIMIT OF DISTURBANCE
- SILT FENCE
- ⊕ TP SOIL EVALUATION

LOCATION OF EXISTING UTILITIES SHOWN, ARE FROM GATE LOCATION AND EXISTING DOCUMENTATION AND MAY NOT BE ACCURATE. EXACT LOCATION TO BE DONE BY THE APPROPRIATE UTILITY COMPANY OR MUNICIPALITY PRIOR TO ANY EXCAVATION. CALL AT DIGSAFE 1-888-DIG-SAFE (1-888-344-7233)



Environmental Management  
MAY 30 2012  
Office of Water Resources



**PROPOSED ACCESS DRIVEWAY  
FOR POCASSET MILLS  
PLAINFIELD STREET  
JOHNSTON, RHODE ISLAND  
AP 2, LOT 134 & AP 3, LOT 422**

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED JUL 20 2012 FILE # 12-0014  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Matthew D. Wenzel*

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

REVISIONS:

NO.	DATE	DESCRIPTION

DESIGNED BY: GEC  
DRAWN BY: WMLJR  
CHECKED BY: JAC  
DATE: APRIL 2012  
PROJECT NO: 07-105

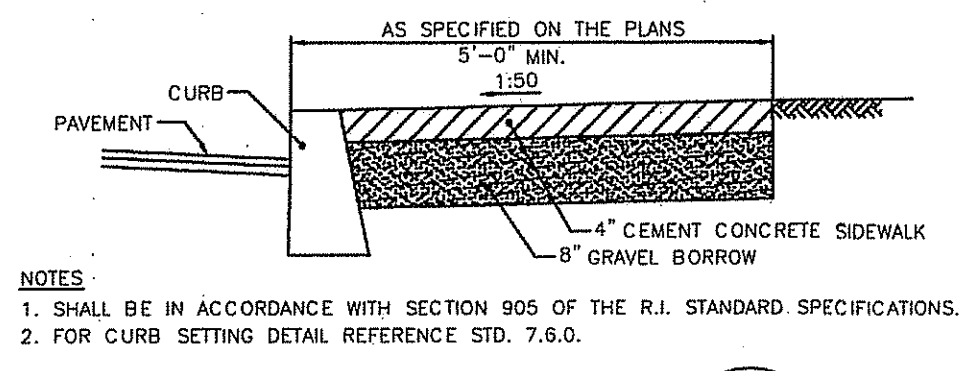
PRELIMINARY,  
NOT FOR CONSTRUCTION

**PLAN & PROFILE**

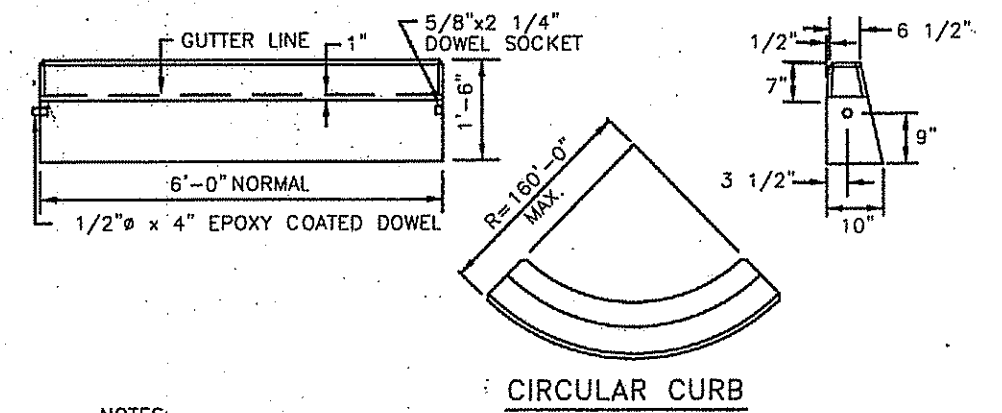
**SHEET  
3 OF 4**

**SITE PLAN**  
1 INCH = 20 FT

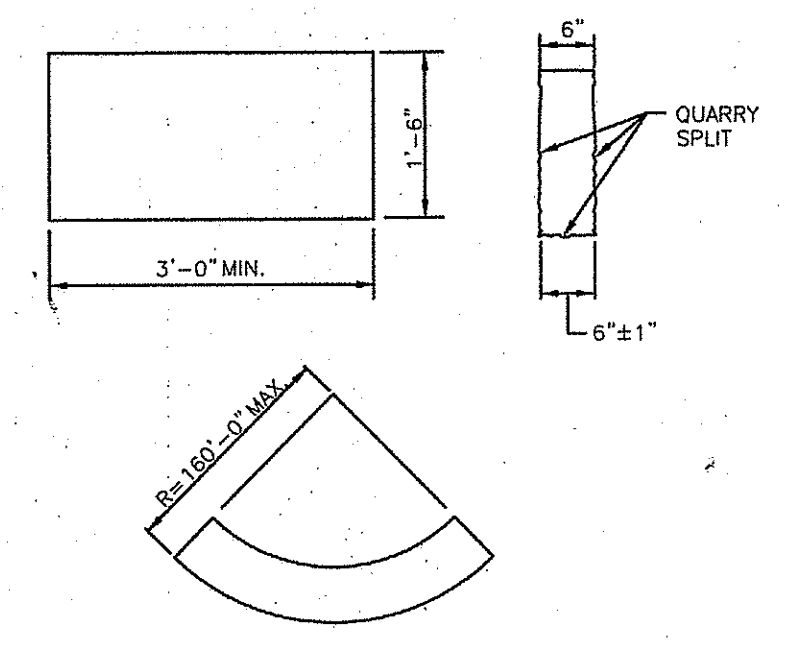
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**CEMENT CONCRETE SIDEWALK**  
R.I. STANDARD 4.3.1.0



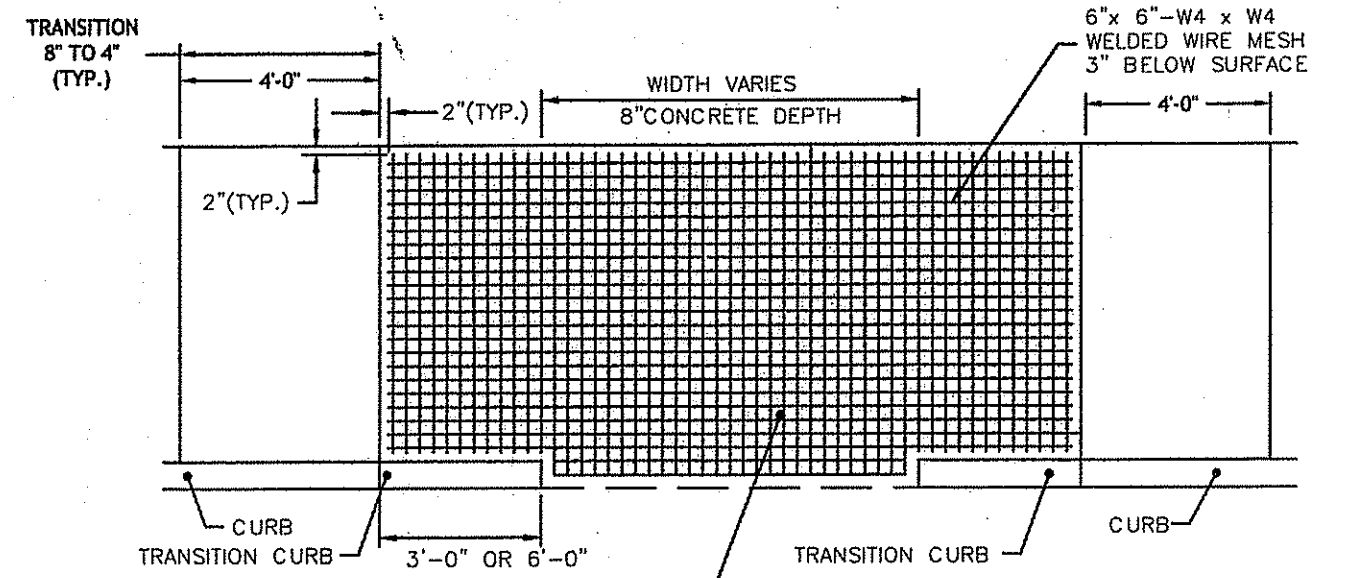
**CIRCULAR CURB**  
R.I. STANDARD 7.1.0



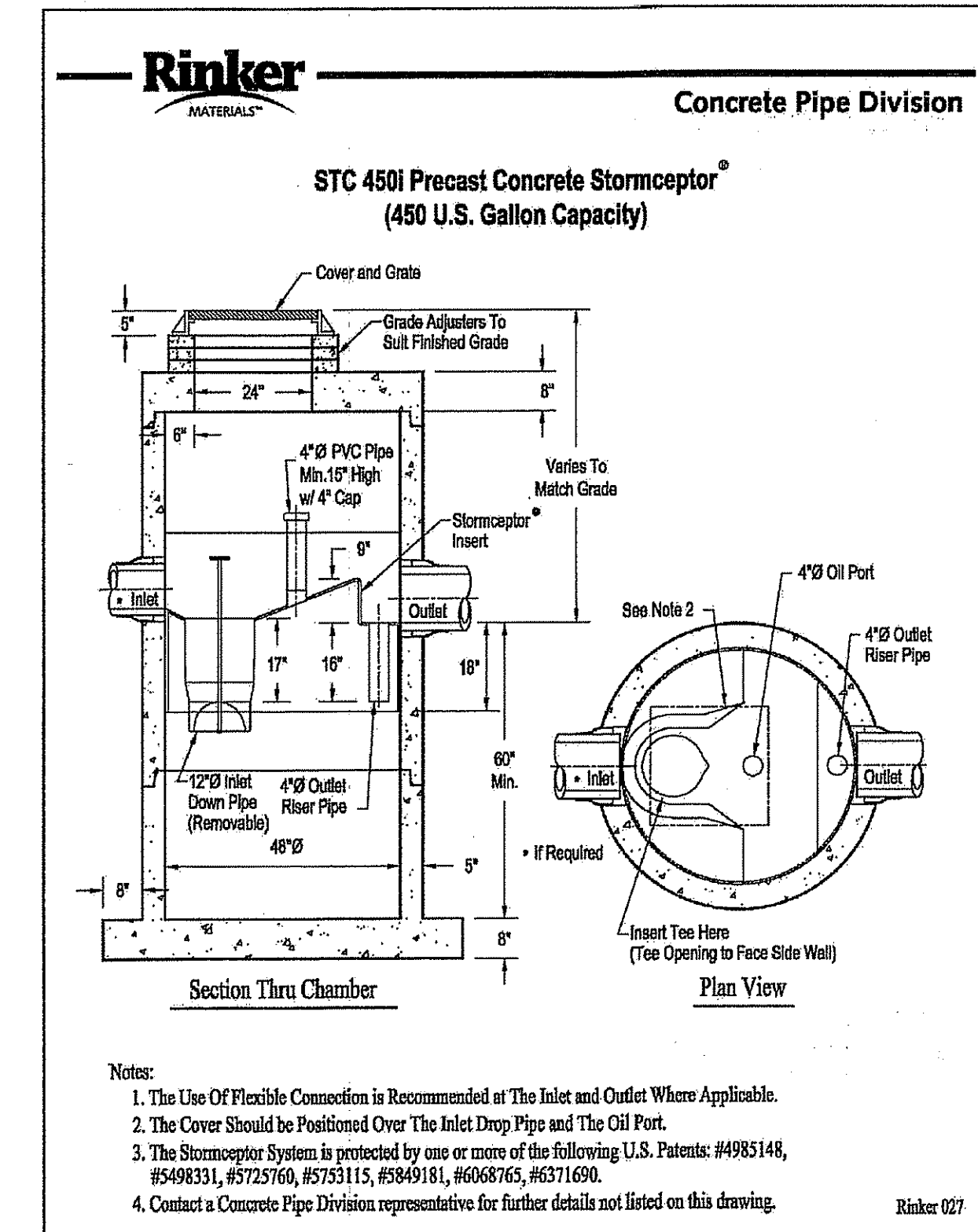
**CIRCULAR CURB**

NOTES:  
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.  
2. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER TO BE QUARRY SPLIT.  
3. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR PIECES TO BE 3'-0\"/>

**GRANITE CURB**  
R.I. STANDARD 7.3.0

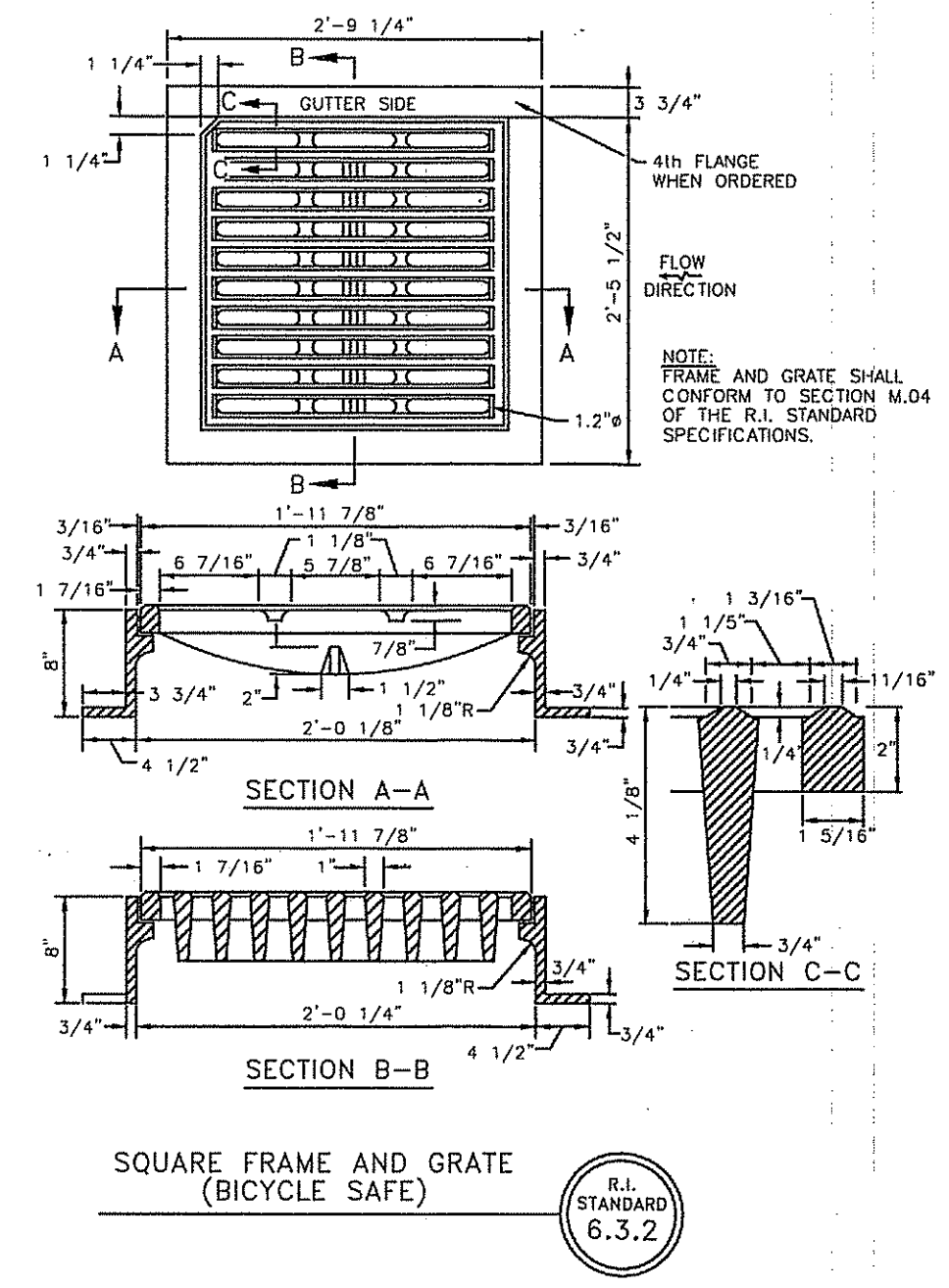


**CEMENT CONCRETE DRIVEWAYS DRIVEWAY SECTION**  
R.I. STANDARD 4.3.5.0

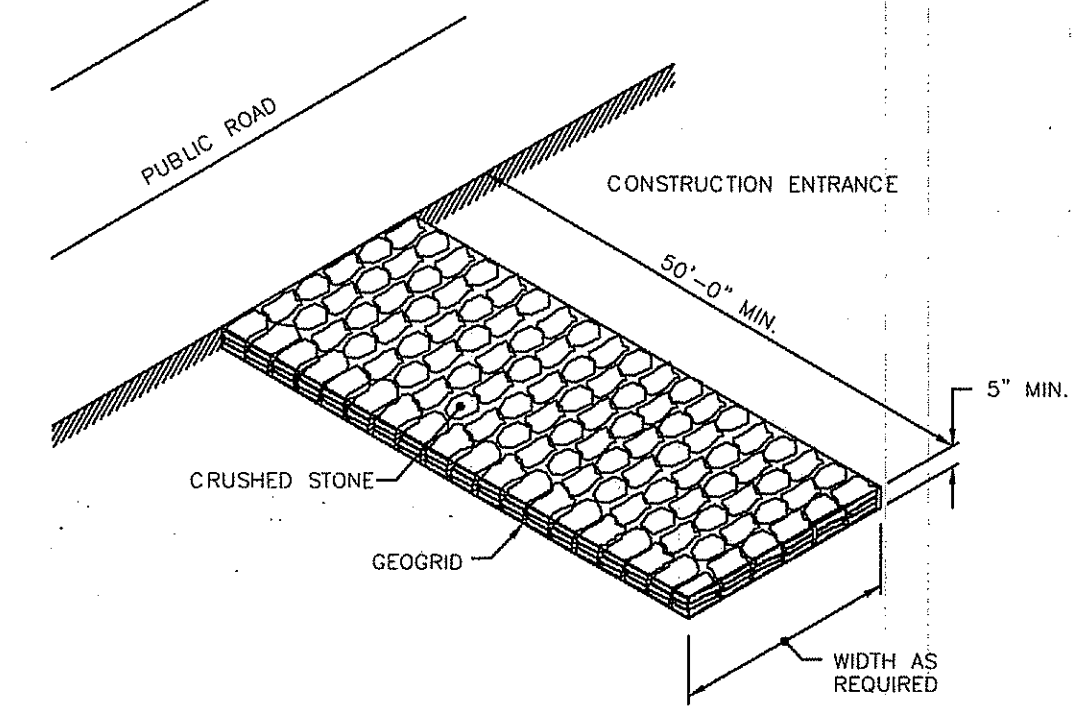


Notes:  
1. The Use Of Flexible Connection is Recommended at the Inlet and Outlet Where Applicable.  
2. The Cover Should be Positioned Over The Inlet Drop Pipe and The Oil Port.  
3. The Stormceptor System is protected by one or more of the following U.S. Patents: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.  
4. Contact a Concrete Pipe Division representative for further details not listed on this drawing.

Rinker 027



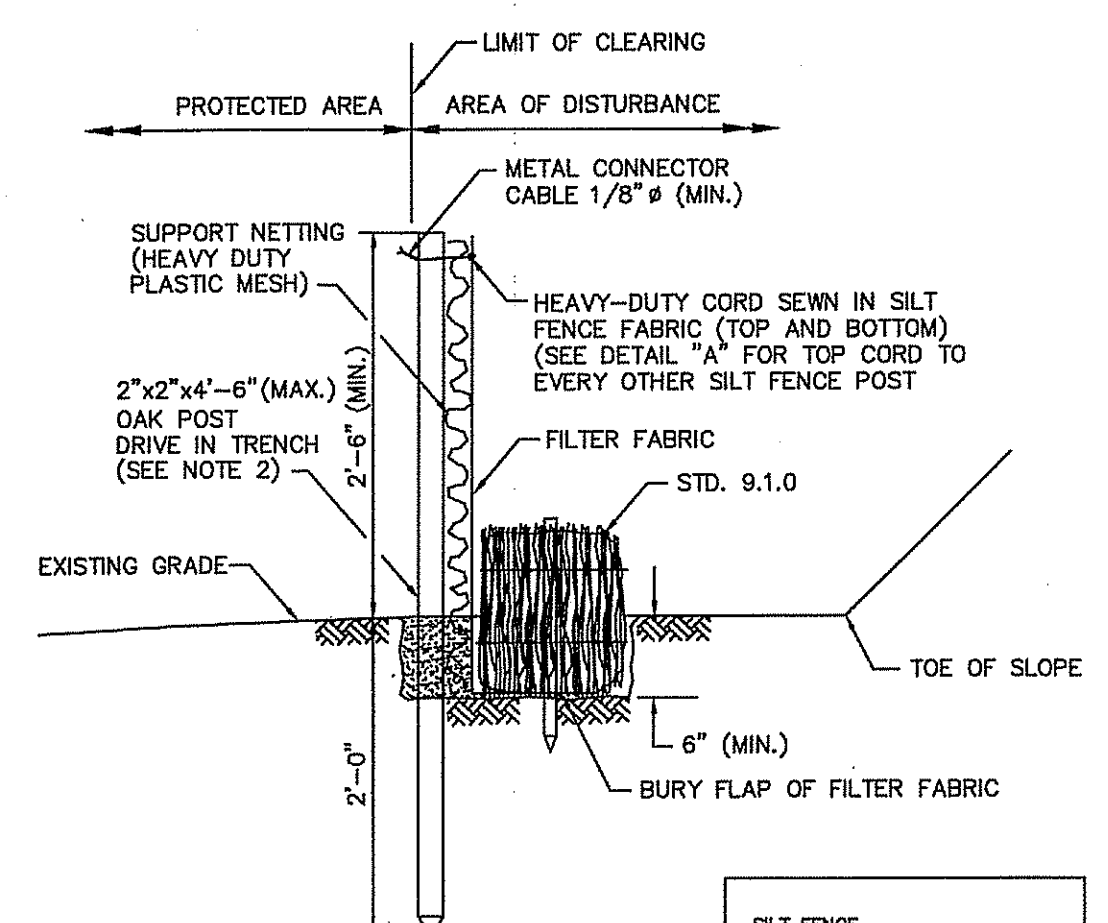
**SQUARE FRAME AND GRATE (BICYCLE SAFE)**  
R.I. STANDARD 6.3.2



**CONSTRUCTION ACCESS**  
R.I. STANDARD 9.9.0

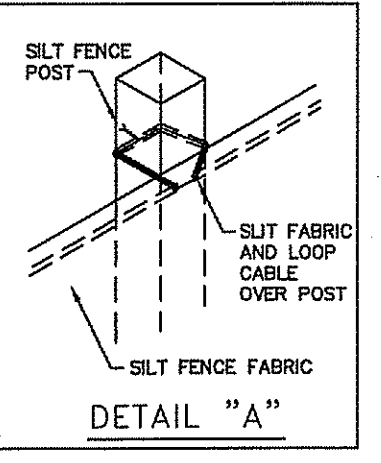
NOTE:  
SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.

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

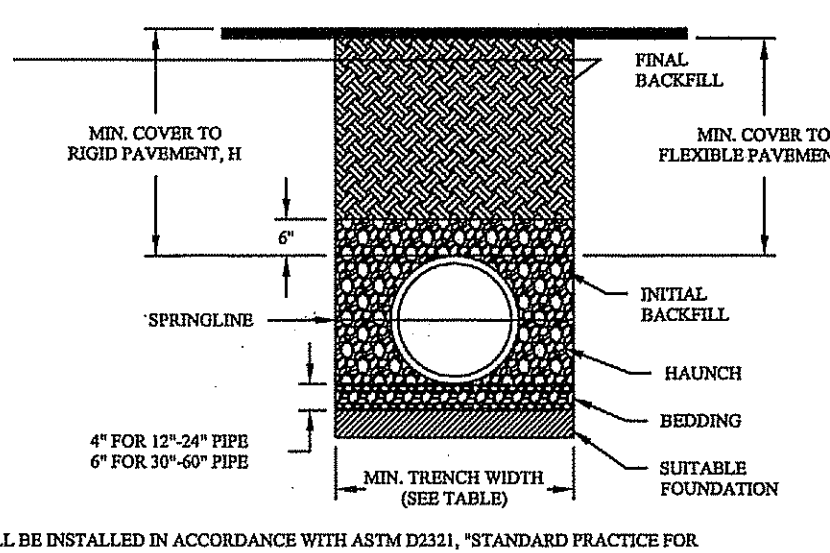


**BALED HAY EROSION CHECK AND SILT FENCE COMB**  
R.I. STANDARD 9.3.0

NOTES:  
1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.  
2. STD. 9.1.0 IS INSTALLED "TIGHT" AGAINST SILT FENCE. THOROUGHLY COMPACT EXCAVATED SOILS BACK INTO TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICE. SILT FENCE FABRIC SHALL NOT BE SLIT. STD. 9.1.0 POST SHALL BE DRIVEN THROUGH SILT FENCE FABRIC. 2"x2"x4"-6" (MAX.) OAK POST FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAVINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.  
3. 1"x4"-6" (MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.  
4. SILT FENCE AND BALED HAY SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.



**DETAIL 'A'**



**ADS PIPE TRENCH INSTALLATION DETAIL:**

NOTES:  
1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS," LATEST EDITION.  
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FIRMS INTO BACKFILL MATERIAL, WHEN REQUIRED.  
3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.  
4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm), 6" (150mm) FOR 30"-60" (750mm-900mm).  
5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 2' ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.  
6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	38"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
54"	88"
60"	96"

PIPE DIAM.	MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS	
	H-25	HEAVY CONSTRUCTION (75% ANGLE LOAD)*
12"-48"	12"	12"
54"-60"	24"	24"

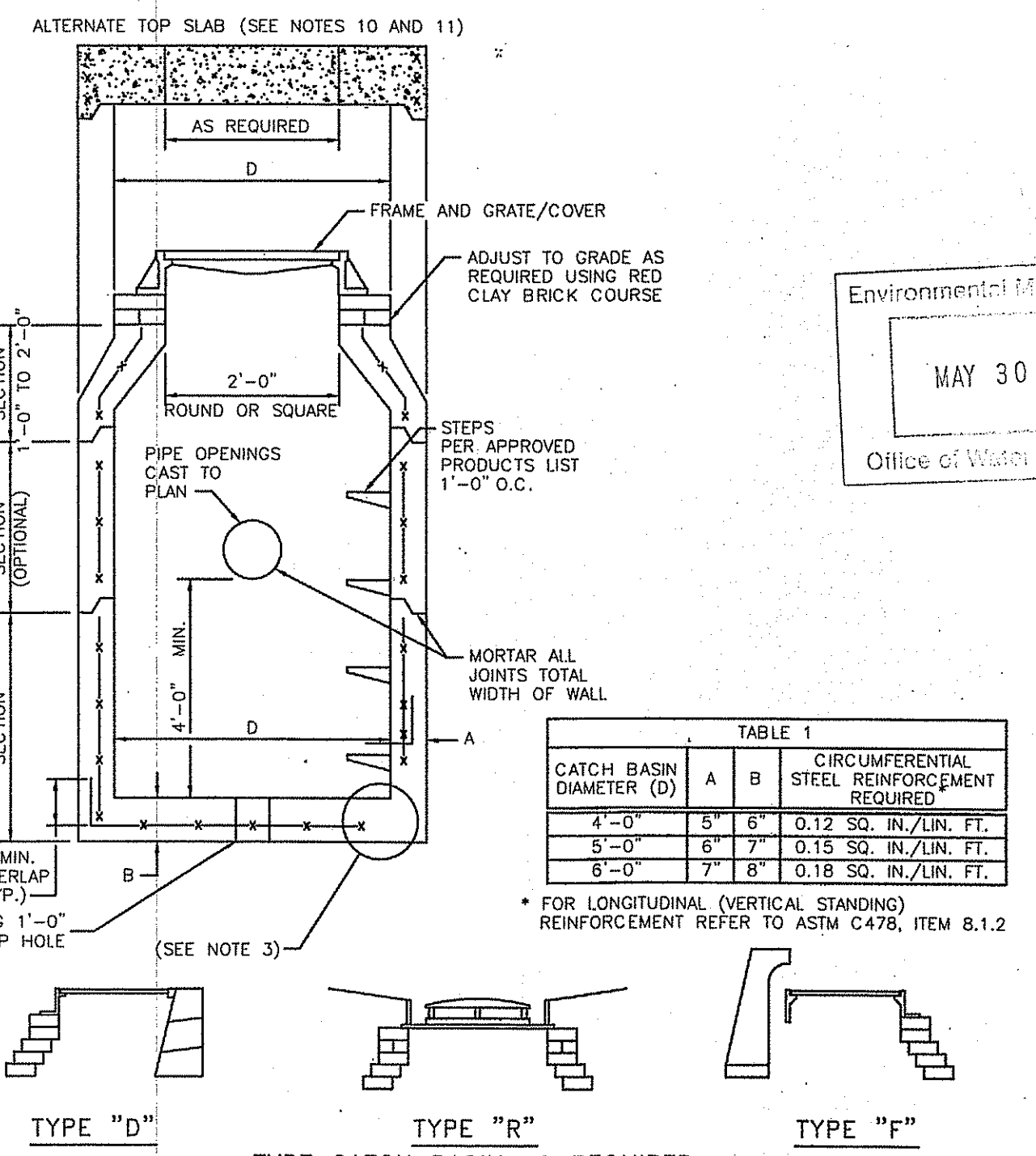


TABLE 1  
CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED

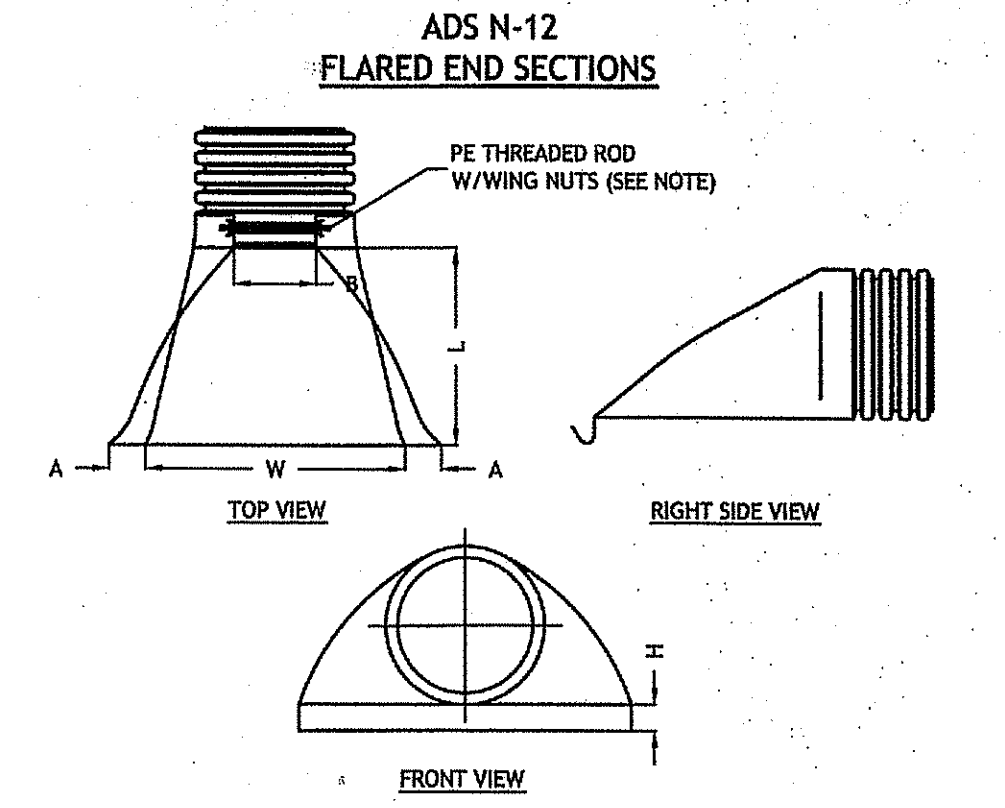
CATCH BASIN DIAMETER (D)	A	B	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED
4'-0"	5"	6"	0.12 SQ. IN./LIN. FT.
5'-0"	6"	7"	0.15 SQ. IN./LIN. FT.
6'-0"	7"	8"	0.18 SQ. IN./LIN. FT.

\* FOR LONGITUDINAL (VERTICAL) REINFORCEMENT REFER TO ASTM C478, ITEM 8.1.2

NOTES:  
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.  
2. SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.  
3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).  
4. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.  
5. ONE POUR MONOLITHIC BASE SECTION.  
6. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.  
7. CORBEL MADE OF RED CLAY BRICK WILL BE PERMITTED FOR THE "CONE SECTION" OF THE 4'-0" CATCH BASIN ONLY.  
8. FOR CATCH BASIN TYPES "D" AND "F" STEPS MUST BE INSTALLED ON THE CURB SIDE OF THE STRUCTURE.  
9. THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.  
10. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).  
11. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.  
12. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

**PRECAST 4'-0\", 5'-0\"/>**

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED May 20 2012 FILE # 12-C094  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



PART NO.	PIPE SIZE	A	B (MAX)	H	L	W
1210-NP	12"	6.5"	10"	6.5"	25"	29"
1210-NP	300 mm	165 mm	254 mm	165 mm	635 mm	735 mm
1810-NP	18"	6.5"	10"	6.5"	25"	29"
1810-NP	375 mm	165 mm	254 mm	165 mm	635 mm	735 mm
1810-NP	18"	7.5"	15"	6.5"	32"	35"
2410-NP	450 mm	190 mm	380 mm	165 mm	812 mm	890 mm
2410-NP	24"	7.5"	15"	6.5"	36"	45"
3012-NP	600 mm	193 mm	450 mm	165 mm	900 mm	1140 mm
3012-NP	30"	10.5"	N/A	7.0"	53"	68"
3612-NP	750 mm	266 mm	N/A	178 mm	1345 mm	1725 mm
3612-NP	36"	10.5"	N/A	7.0"	53"	68"
3612-NP	900 mm	266 mm	N/A	178 mm	1345 mm	1725 mm

NOTE: PE THREADED ROD W/WINGS NUTS PROVIDED FOR END SECTIONS 12"-24". 30" & 36" END SECTIONS TO BE WELDED-TO PIPE PER MANUFACTURER'S RECOMMENDATIONS.

**JCE**  
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Drainage - Wetland - Wetland - Wetland  
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**JOSEPH A. CASALI**  
No. 7250  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL  
5.25.12

**PROPOSED ACCESS DRIVEWAY FOR POCASSET MILLS**  
PLAINFIELD STREET  
JOHNSTON, RHODE ISLAND  
AP 2, LOT 134 & AP 3, LOT 422

REVISIONS:  
NO. DATE DESCRIPTION

NO.	DATE	DESCRIPTION

DESIGNED BY: GBC  
DRAWN BY: WMLJR  
CHECKED BY: JAC  
DATE: APRIL 2012  
PROJECT NO: 07-105

PRELIMINARY, NOT FOR CONSTRUCTION

**DETAILS**  
**SHEET 4 OF 4**