

SITE PLANS FOR PROPOSED BENNY'S ADDITION

AP 43 LOTS 85 & 94
473 PUTNAM PIKE (US ROUTE 44)
SMITHFIELD, RHODE ISLAND

ZONING DISTRICT: PD

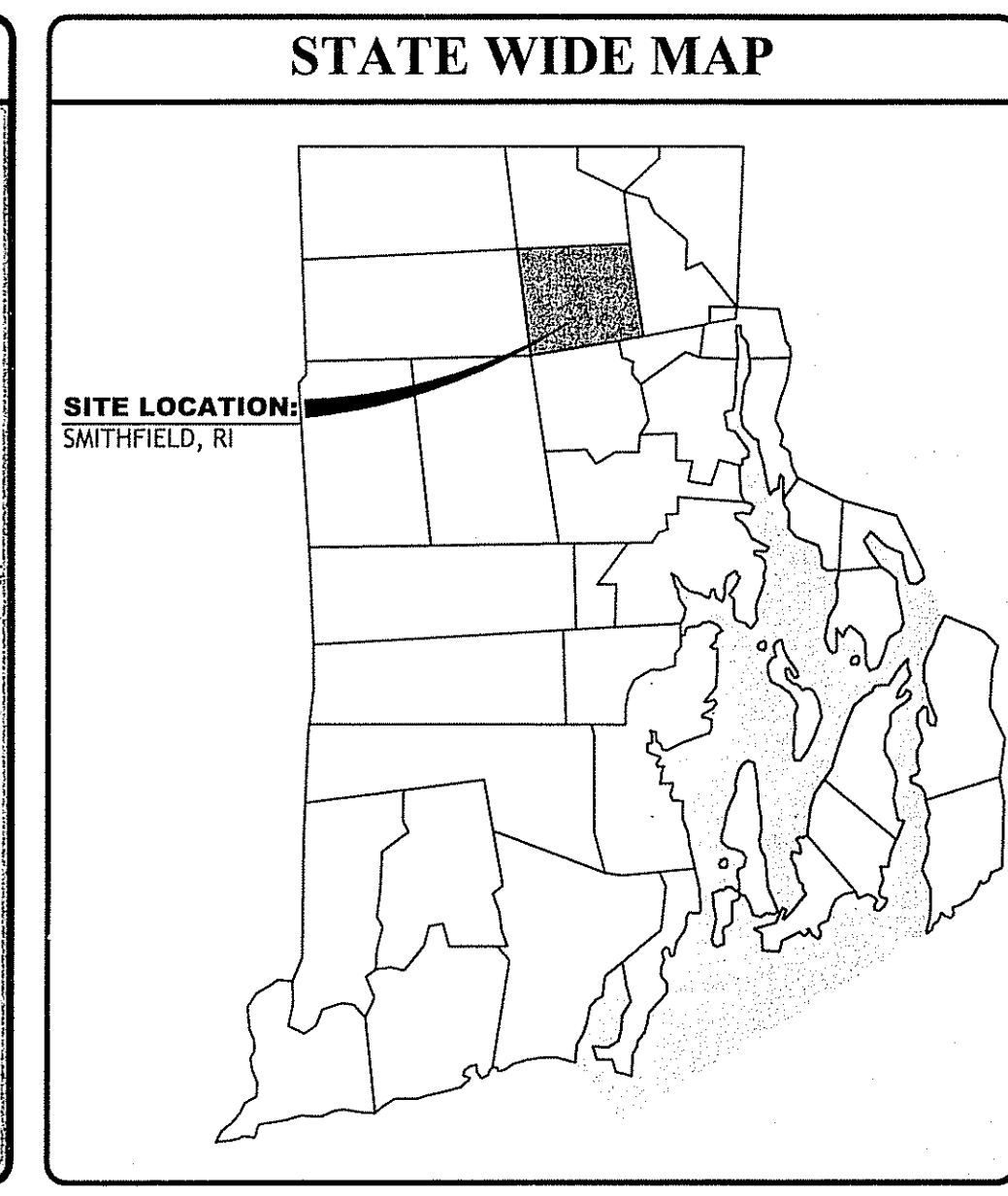
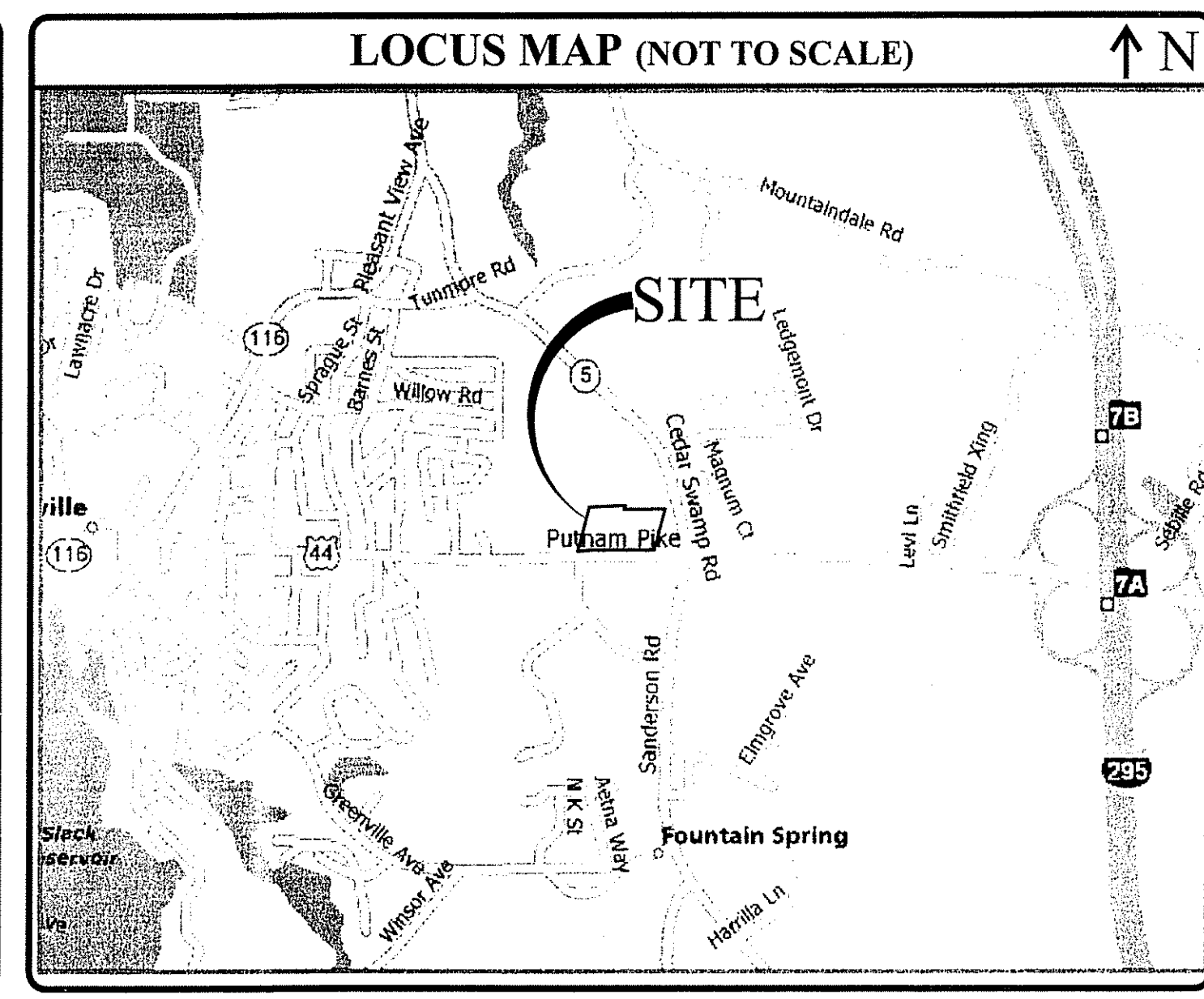
SUBMITTED TO:

- TOWN OF SMITHFIELD PLANNING BOARD - MAJOR LAND DEVELOPMENT (PRELIMINARY PLAN)
- RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT FRESHWATER WETLANDS PROGRAM - REQUEST FOR PRELIMINARY DETERMINATION
- RHODE ISLAND DEPARTMENT OF TRANSPORTATION - PHYSICAL ALTERATION PERMIT APPLICATION

BENNY'S ADDITION
473 PUTNAM PIKE - (US ROUTE 44)
SMITHFIELD, RHODE ISLAND
AP 43 LOTS 85 & 94

Q:\08-66-Benny's-Smithfield\ACID\PI\ASSET\PLAN SET.dwg Nov. 19. 2008 8:21am

PROJECT TEAM	
OWNER:	MR. MALCOLM BROMBERG ESMOND REALTY CORPORATION 340 WATERMAN AVENUE SMITHFIELD, RI 02917
CIVIL:	CASALI & D'AMICO ENGINEERING, INC 300 POST ROAD WARWICK, RI 02888 PHONE: 401-944-1300 FAX: 401-944-1313
SURVEYOR:	PETER V. CIPOLLA JR. P.O. BOX 8662 CRANSTON, RI 02920
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED FEB 20 2009 FILE # 08-0375
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Harbo

REVISIONS:		
NO.	DATE	DESCRIPTION

DESIGNED BY: JDC
DRAWN BY: JRM, DCZ
CHECKED BY: DMD
DATE: NOV. 08
PROJECT NO: 08-66

PRELIMINARY, NOT FOR CONSTRUCTION

COVER SHEET

SHEET 1 OF 7

GENERAL NOTES:

- EXISTING TOPOGRAPHIC MAPPING WAS COMPLETED BY CASALI & D'AMICO ENGINEERING, 300 POST ROAD, WARWICK, RI ON AUGUST 16, 2008. A CLASS I PROPERTY LINE SURVEY FOR AP 43 LOTS 85 AND 94 AND WETLAND FLAG LOCATIONS WERE OBTAINED FROM A PLAN ENTITLED PROPERTY AND WETLAND LOCATION MAP COMPLETED BY PETER V CIPOLLA, JR., PLS AUGUST 19, 2008. BY A PLAN ENTITLED PROPERTY AND WETLANDS LOCATION MAP AP 43 LOTS 85 & 94.
- 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 TOWN WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCE.
- A PORTION OF PARCEL 94 IS LOCATED IN ZONE A (AREA INUNDATED BY 100 YEAR FLOOD) ON FLOOD INSURANCE RATE COMMUNITY MAP PANEL 440025 007 B EFFECTIVE MARCH 4, 1991. THE BASE FLOOD ELEVATION OF 222.00 (NGVD 29) WAS ESTABLISHED FOR THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION DURING THE RECONSTRUCTION AND WIDENING OF ROUTE 44 (PUTNAM PIKE) BY R.A. CATALDO ENGINEERING IN APRIL 1994 (REVISED FEBRUARY 1995). ALL PROPOSED DEVELOPMENT TAKES PLACE ABOVE ELEVATION 222.00, THEREFORE OUTSIDE OF THE FLOODPLAIN. THE REMAINING AREA OF PARCEL 94 AND PARCEL 85 ARE LOCATED IN ZONE X (OUTSIDE OF THE 100 YEAR FLOOD).
- ACCORDING TO THE SOIL SURVEY OF RHODE ISLAND, PREPARED BY THE US DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, SOILS ON THE SITE CONSIST OF MERRIMAC URBAN LAND COMPLEX AND HINCKLEY GRAVELLY SAND LOAM, TYPE "A" HYDROLOGIC SOILS.
- THE EXISTING WETLANDS WERE FLAGGED AND DELINEATED BY MASON & ASSOCIATES ON AUGUST 11, 2008. THE WETLAND FLAGS WERE LOCATED BY PETER V CIPOLLA, JR., PLS AUGUST 19, 2008.
- THE SITE LIES WITHIN THE REAPER BROOK WATERSHED.
- THIS SITE DOES NOT CONTAIN ANY EASEMENTS.
- THERE ARE NO EXTRAORDINARY OR UNUSUAL NATURAL FEATURES ON THIS SITE.
- THERE ARE NO HISTORIC BUILDINGS ON THIS SITE.
- THERE ARE NO WATERCOURSES, PONDS OR DRAINAGE AREAS ON THIS SITE.
- NO POTENTIAL IMPACTS TO THE EXISTING COMMUNITY ARE PROPOSED FOR THIS SITE.

SITE NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) 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.
- 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 CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS.
- REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR ACTUAL SIZE OF THE PROPOSED BUILDING AND DOWNSPOUT LOCATIONS. DOWNSPOUT LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE.
- WHERE NECESSARY TO REMOVE CURBS, CATCH BASINS OR DRAINS TO COMPLETE WORK, THE CONTRACTOR SHALL REPLACE SUCH ITEMS TO THE SATISFACTION OF THE TOWN, STATE AND OR OWNER AT NO ADDITIONAL COST TO THE OWNER.
- ANY EXISTING PIPE OR UTILITY DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE OWNER OR 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 IN 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 ROCK OUTCROP LEDGE TO BE REMOVED BY MECHANICAL MEANS. CONTRACTOR SHALL ACQUIRE NECESSARY PERMITTING IF BLASTING IS REQUIRED.
- 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 IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS
- ALL SITE WORK, INCLUDING BUT NOT LIMITED TO BITUMINOUS PAVEMENT, STONE, GRAVEL, DRAINAGE STRUCTURES, UTILITY CONNECTIONS, PAVEMENT, SAW CUTTING, CURBING, LANDSCAPING, SIGNAGE, PAVEMENT MARKINGS, AND SOIL EROSION AND SEDIMENTATION CONTROLS SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION WITH LATEST ADDENDA.
- ALL WORK TO BE DONE IN THE STATE RIGHT OF WAY SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION WITH LATEST ADDENDA AND RIDOT STANDARD DETAILS DATED 1998 WITH LATEST ADDENDA.
- ALL PROPOSED SIGNAGE & PAVEMENT MARKINGS SHALL CONFORM TO THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTED).

LAYOUT NOTE:

THE LAYOUT SHOWN REPRESENTS A GRAPHICAL DESIGN, AND PRIOR TO THE CONSTRUCTION, THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL LAND SURVEYOR (PLS) REGISTERED IN THE STATE OF RHODE ISLAND TO SET AND VERIFY ALL LINES AND GRADES. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY ITEM FOUND WHICH DOES NOT MATCH THE PLANS MUST BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO CONSTRUCTION FOR REVIEW, NO WORK SHALL PROCEED UNLESS AUTHORIZED BY THE ENGINEER.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING POLICE PROTECTION. ALL TEMPORARY AND VEHICULAR SIGNS, BARRICADES AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE LATEST REVISIONS OF MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.)
- TEMPORARY CONSTRUCTION SIGNS AND ALL APPLICABLE TRAFFIC CONTROL DIVIDES SHALL BE IN PLACE PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC.
- SIGN MOUNTINGS SHALL BE IN ACCORDANCE WITH THE RIDOT SPECIFICATIONS FOR TEMPORARY CONSTRUCTION SIGNS.

PROPOSED PAVEMENT STRUCTURE A:

ON-SITE (PAVEMENT PARKING LOT 7 ENTRANCE DRIVE)
1 1/2" BITUMINOUS CONCRETE SURFACE COURSE CLASS I-1

1 1/2" BITUMINOUS CONCRETE BASE COURSE

12" GRAVEL BORROW SUBBASE

ASPHALT EMULSION TACK COAT TO BE PLACED PRIOR TO SURFACE COURSE PAVING IF BINDER COURSE IS OPENED TO VEHICLE USE OR IF BINDER COURSE IS GREATER THAN 30 DAYS OLD.

DRAINAGE SYSTEM MAINTENANCE SCHEDULE:

UPON PROJECT COMPLETION, THE SITE OWNER SHALL ADHERE TO THE FOLLOWING MAINTENANCE RECOMMENDATIONS:

- CATCH BASINS, MANHOLES AND DRAIN LINES: AN INSPECTION MUST OCCUR ON AN ANNUAL BASIS TO ENSURE PROPER OPERATION. THE INSPECTION SHOULD, AS A MINIMUM, CONCENTRATE ON THE FOLLOWING:
 - DAMAGE TO GRATES AND/OR COVER
 - EVIDENCE OF STANDING WATER
 - DEBRIS REMOVAL
 - STRUCTURAL ALIGNMENT/ INTEGRITY

ANY DEFICIENCY NOTED DURING THE INSPECTION SHALL BE IMMEDIATELY REPAIRED OR REPLACED.

- SEDIMENT REMOVAL: ALL REMOVED SEDIMENT IS TO BE TESTED TO DETERMINE POLLUTANT CONTENT. THE SEDIMENT IS TO BE PROPERLY DISPOSED IN UPLAND AREAS BASED UPON THE TEST RESULTS AND LOCAL, STATE, AND FEDERAL REGULATIONS. SEDIMENT SHALL BE REMOVED FROM CATCH BASINS ON AN ANNUAL BASIS.

DRAINAGE SYSTEM NOTES:

- THE PROPOSED DRAINAGE LINES SHALL BE ADS N-12 (HDPE) OR AN APPROVED EQUAL AS INDICATED ON THESE PLANS.
- THE DESIGN ENGINEER MUST SUBMIT AN AS-BUILT PLAN AND A CERTIFICATION TO THE TOWN ENGINEER THAT THE CONSTRUCTION IS IN COMPLIANCE WITH THE DESIGN PLANS FOR ALL ELEMENTS OF THE STORM OR DRAINAGE PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

- THE HAYBALE AND 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 AREA OF CONSTRUCTION. 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, SILT FENCE, 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 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.

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 ENGINEER PRIOR TO CONSTRUCTION. NO EXTRA PAYMENT TO THE CONTRACTOR DUE TO RELOCATION'S WILL BE AUTHORIZED.
- THE UTILITY PLAN DOES NOT DEPICT THE NECESSARY ELECTRICAL CONDUIT/WIRING TO SERVICE THE PROPOSED LIGHTING AND SIGNS, WHICH WILL BE PERFORMED BY THE CONTRACTOR FOR NO ADDITIONAL COST.

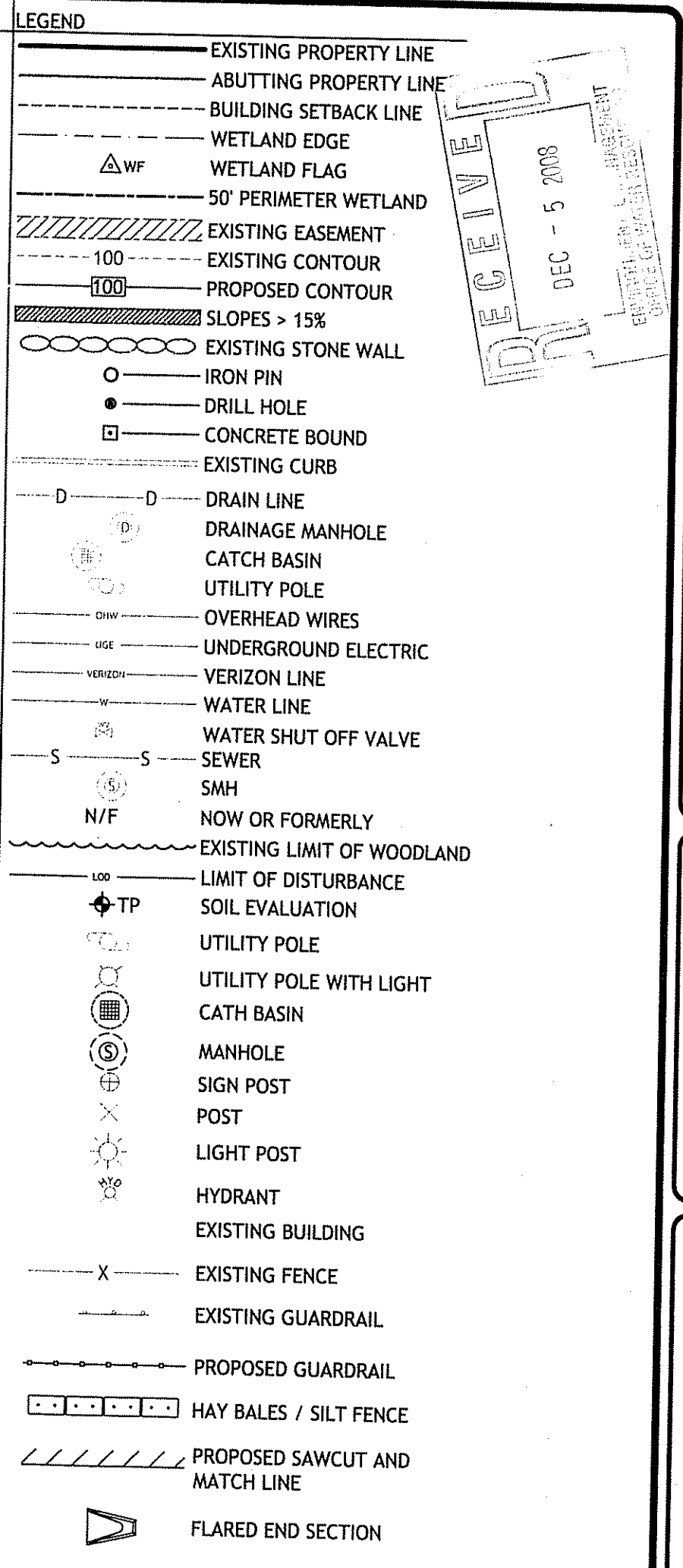
- OVERHEAD ELECTRIC AND TELEPHONE SERVICES ARE TO BE REMOVED AND OR INSTALLED BY THE APPROPRIATE UTILITY COMPANY AND COORDINATED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL AT ALL TIMES PROVIDE A SUFFICIENT NUMBER OF WORKMEN AND GUARDS AS MAY BE NECESSARY TO PROPERLY SAFEGUARD THE PUBLIC FROM THEIR OPERATIONS.
- 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.
- EXISTING UTILITY FRAMES AND COVERS FOR SANITARY SEWER, WATER, GAS, STORM DRAINAGE AND OTHER UTILITIES SHALL BE ADJUSTED TO GRADE AS REQUIRED IN NEW PAVING AND PAVEMENT OVERLAY AREAS.
- APPLICANT IS RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS FROM LOCAL, STATE, AND/OR FEDERAL AGENCIES WITH REGULATORY JURISDICTION OVER THE PROPOSED WORK. ALL SEWER CONSTRUCTION SHALL BE PERFORMED BY A DRAIN LAYER LICENSED IN THE STATE OF RHODE ISLAND AND THE TOWN OF SMITHFIELD.
- PRIOR TO RECEIVING AUTHORIZATION TO CONSTRUCT, ALL MATERIALS SHALL MEET THE STANDARDS AND RECEIVE THE WRITTEN APPROVAL, BASED ON MANUFACTURERS DRAWINGS AND OTHER DATA, OF THE SEWER AUTHORITY OR ITS REPRESENTATIVE.
- INSTALLATION OF THE SEWERAGE FACILITIES SHALL BE IN ACCORDANCE WITH THE TOWN OF SMITHFIELD SEWER AUTHORITY'S STANDARD SPECIFICATIONS AND DETAILS FOR THE INSTALLATION OF SEWERS AND APPURTENANCES BY PRIVATE DEVELOPERS).

BMP MAINTENANCE SCHEDULE:

- ALL MAINTENANCE (INCLUDING CLEANING) REQUIRED DURING THE CONSTRUCTION PHASE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL INCLUDE:
 - MEASURES NEEDED TO ENSURE THE PROPER OPERATION OF THE STORMWATER RUNOFF (DRAINAGE) AND WATER QUALITY CONTROL SYSTEMS TO INCLUDE INSPECTION, CLEANING AND REPAIRS TO THE INFILTRATION SYSTEMS, ALL PIPES, INTAKE AND DISCHARGE STRUCTURES, CATCH BASIN SUMPS, AND MANHOLES.
 - INSPECTION OF ALL SLOPES, BERMS, AND OTHER CONTROL STRUCTURES FOR STRUCTURAL INTEGRITY/STABILITY AND EVIDENCE OF SOIL EROSION PROCESSES, AND MAINTENANCE OF THESE STRUCTURES IF NECESSARY. INSPECTIONS SHALL BE PERFORMED FOLLOWING ALL RAIN EVENTS OF 1/2 INCH RAINFALL OR MORE IN A 24-HOUR PERIOD, OR BI-MONTHLY IF NO RAINFALL EVENT OCCURS.
- UPON COMPLETION OF THE PROJECT CONSTRUCTION, AND PRIOR TO VACATING THE SITE, THE CONTRACTOR SHALL CONDUCT A FINAL INSPECTION AND CLEANING OF THE DRAINAGE SYSTEM AND ALL ASSOCIATED STRUCTURES.
- AFTER THE COMPLETION OF THE ENTIRE PROJECT TO THE SATISFACTION OF THE OWNER OR ENGINEER, ALL MAINTENANCE OF THE DRAINAGE SYSTEM SHALL THEN BE THE RESPONSIBILITY OF THE OWNER.
- AFTER THE COMPLETION OF PROJECT CONSTRUCTION AND THE FINAL STABILIZATION OF THE ENTIRE SITE, THE INSPECTION AND MAINTENANCE OF ALL STORMWATER FACILITIES MUST BE PERFORMED AS FOLLOWS:
 - ANY REQUIRED REPAIR AND REPLACEMENT OF DRAINAGE STRUCTURES OR FACILITIES SHALL BE DONE PROMPTLY TO ENSURE PROPER FUNCTIONING OF THE SYSTEM.
 - INFILTRATION SYSTEMS SHALL BE INSPECTED ON A YEARLY BASIS TO ENSURE PROPER FUNCTIONING. INSPECTION PORTS SHALL BE USED TO VERIFY THAT THE SYSTEMS ARE DRAINING WITHIN 72-HOURS. IF THE SYSTEM FAILS TO DRAIN WITHIN 72-HOURS, THE SYSTEM SHALL BE CLEANED OR REPLACED AS NECESSARY.
 - CATCH BASIN, MANHOLES AND DRYWELLS SHALL BE INSPECTED AT LEAST ONCE PER YEAR AND ANY SEDIMENT OR DEBRIS WITHIN THE SUMPS SHALL BE REMOVED.
 - ALL DESIGN, CLEANING, AND MAINTENANCE OF THE STORMWATER DRAINAGE SYSTEM SHALL FOLLOW AT LEAST THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION MINIMUM STANDARDS, SECTION 708.02. WHERE APPROPRIATE, PROCEDURES REGARDING THE DRAINAGE DESIGN, AND THE INSPECTION AND MAINTENANCE OF THE STORMWATER DRAINAGE SYSTEM SHALL BE FOLLOWED AS OUTLINED IN THE "RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL" (RIDEM/RICRMC, SEPTEMBER 1, 1993).

SEQUENCE & STAGING OF PROPOSED CONSTRUCTION ACTIVITIES:

- SURVEY AND STAKE THE PROPOSED BUILDING CORNERS, STORMWATER MANAGEMENT AREA, STRUCTURES, AND LIMIT OF DISTURBANCE.
- PLACE EROSION CONTROLS AND CONSTRUCTION ACCESS (HAY BALES AND/OR SILT FENCE) AS SHOWN ON THE PLANS AND AS STAKED OUT IN THE FIELD. IN NO CASE IS THE LIMIT OF WORK TO EXTEND BEYOND THE SEDIMENTATION BARRIERS.
- EXCAVATE, INSTALL AND BACKFILL PROPOSED STORMWATER MANAGEMENT AREA AS SHOWN ON PLAN.
- BEGIN SITE WORK (CLEARING AND GRUBBING, EXCAVATING AND GRADING, ETC.). TOPSOIL IS TO STRIPPED AND STOCKPILED WITHIN DISTURBANCE LIMITS. THE STOCKPILES ARE TO BE PROTECTED BY A ROW OF SEDIMENTATION BARRIERS. STOCKPILES TO BE COVERED OR TEMPORARILY SEEDED. DIVERT ALL THE RUNOFF FROM DISTURBED AREAS TO THE PROPOSED STORMWATER STORAGE AREA.
- INSTALL UTILITIES AND DRAINAGE INCLUDING DRAINAGE PIPES. IMMEDIATELY PLACE THE RIP-RAP AT THE DISCHARGE POINTS. SEED ALL DISTURBED AREAS.
- BEGIN BUILDING CONSTRUCTION.
- BEGIN PAVEMENT AND PROPOSED GRADING. LANDSCAPE WHILE BUILDING IS UNDER CONSTRUCTION.
- FINISH BUILDING AND PAVEMENT CONSTRUCTION.
- FINISH LANDSCAPING AND PERMANENT STABILIZATION.
- INSPECT AND REPAIR ALL DRAINAGE STRUCTURES INCLUDING STORAGE CHAMBERS AND DISCHARGE POINTS. REMOVE ANY DEBRIS (LEAVES, TREE LIMBS, BOULDERS, ETC.) FROM DRAINAGE INLETS AND OUTLETS. FLUSH ALL SEDIMENTS FROM DRAINAGE PIPES AND APPLY TOPSOIL TO PONDS.
- REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ONCE VEGETATION HAS BEEN ESTABLISHED TO ALL DISTURBED AREAS.



CDE

CASALI & D'AMICO ENGINEERING, INC.
 CIVIL, SITE DEVELOPMENT, TRANSPORTATION
 DRAINAGE, WETLANDS, ISDS - TRAFFIC - FLOODPLAIN
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DAVID M. D'AMICO
 PROFESSIONAL LAND SURVEYOR
 11/19/08

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 473 PUTNAM PIKE - (US ROUTE 44)
 SMITHFIELD, RHODE ISLAND
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GENERAL NOTES & LEGEND

SHEET 2 OF 7

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Q:\08-66 Benny's - Smithfield\08-66\PLANS\PLAN SET.dwg Nov. 18, 2008 2:33pm

TP	ELEV	SHGWT	PERCOLATION RATE
A	243.30	231.30	8 MIN/IN
B	242.80	231.30	8 MIN/IN

ZONING CRITERIA	REQUIRED	EXISTING AP 43 LOT 99	EXISTING AP 43 LOT 94
ZONING DISTRICT	PD	PD	PD
MINIMUM LOT AREA	200,000 SQ.FT.	70,380 SQ.FT.*	67,603 SQ.FT.*
MINIMUM LOT FRONTAGE	300'	265'	238.16'
MINIMUM FRONT YARD SETBACK	50'	123.25'	N/A
MINIMUM SIDE YARD SETBACK	40'	26.26'	N/A
MINIMUM REAR YARD SETBACK	100'	31.54'	N/A
MAXIMUM BUILDING HEIGHT	39'	28'	N/A

* EXISTING NON-CONFORMING CONDITION.

RECEIVED
DEC - 5 2008

CDE
CASALI & D'AMICO ENGINEERING, INC.
CIVIL - SITE DEVELOPMENT - TRANSPORTATION
DRAINAGE - WETLANDS - ISDS - TRAFFIC - FLOODPLAIN
WARWICK, RI 02886
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REGISTERED PROFESSIONAL ENGINEER
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11/18/08

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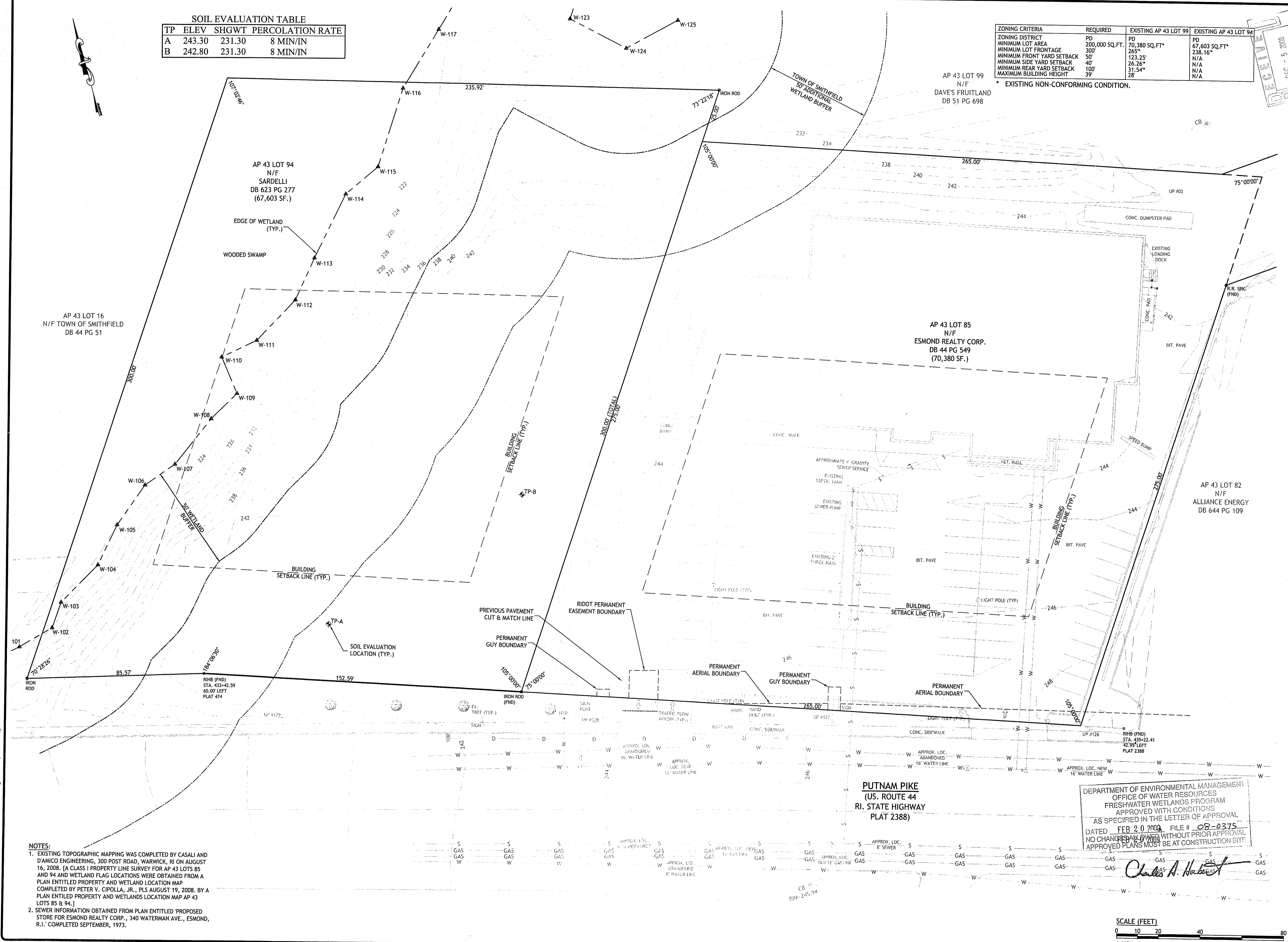
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2. SEWER INFORMATION OBTAINED FROM PLAN ENTITLED 'PROPOSED STORE FOR ESMOND REALTY CORP., 340 WATERMAN AVE., ESMOND, R.I.' COMPLETED SEPTEMBER, 1973.

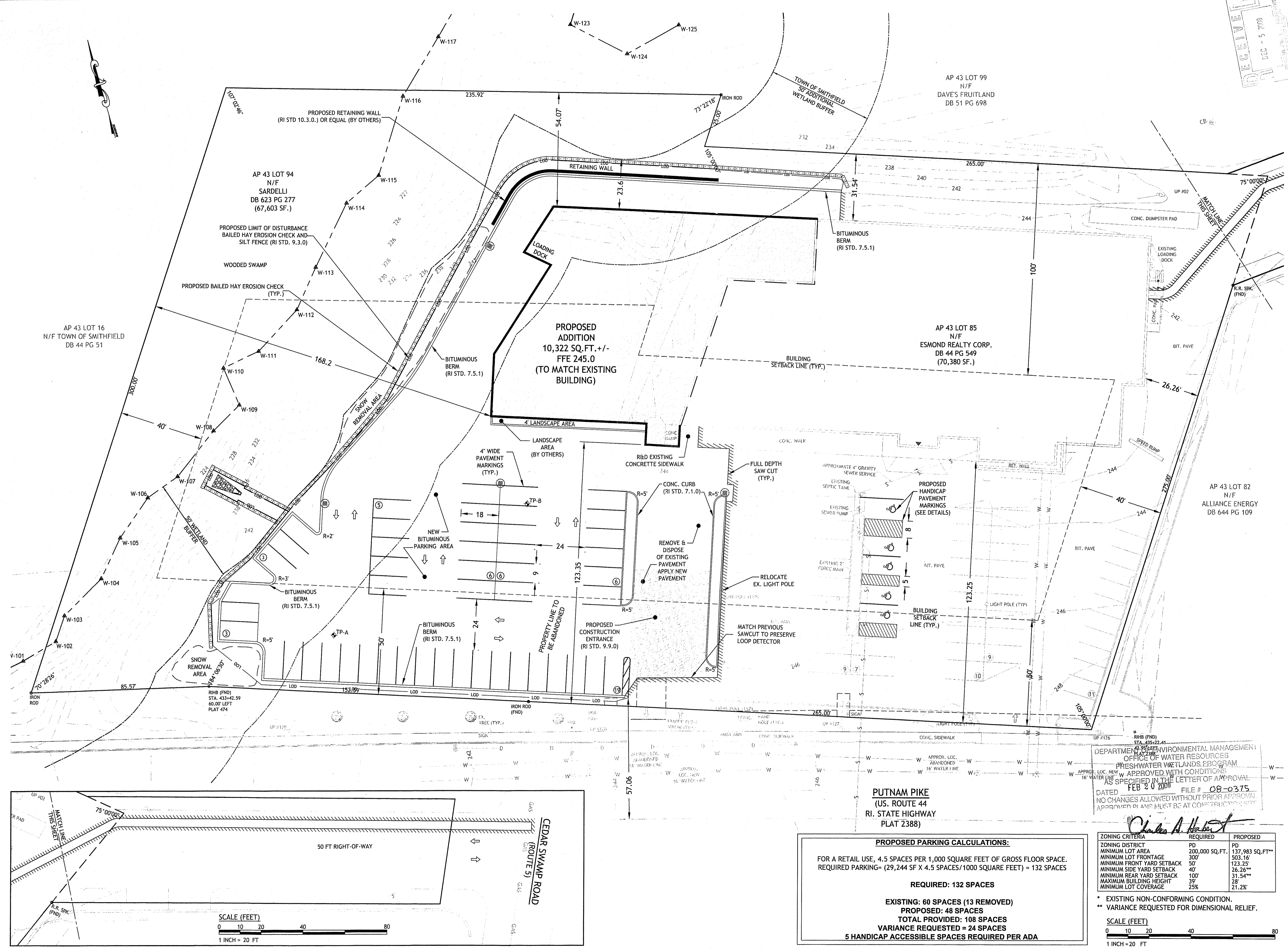
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0 10 20 40 80
1 INCH = 20 FT

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**BENNY'S ADDITION
 473 PUTNAM PIKE - (US ROUTE 44)
 SMITHFIELD, RHODE ISLAND
 AP 43 LOTS 85 & 94**



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED FEB 20 2008 FILE # 08-0375
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED BY AND MUST BE AT CONSTRUCTION SITE

PROPOSED PARKING CALCULATIONS:

FOR A RETAIL USE, 4.5 SPACES PER 1,000 SQUARE FEET OF GROSS FLOOR SPACE.
 REQUIRED PARKING = (29,244 SF X 4.5 SPACES/1000 SQUARE FEET) = 132 SPACES

REQUIRED: 132 SPACES

EXISTING: 60 SPACES (13 REMOVED)
PROPOSED: 48 SPACES
TOTAL PROVIDED: 108 SPACES
VARIANCE REQUESTED = 24 SPACES
5 HANDICAP ACCESSIBLE SPACES REQUIRED PER ADA

ZONING CRITERIA	REQUIRED	PROPOSED
ZONING DISTRICT	PD	PD
MINIMUM LOT AREA	200,000 SQ. FT.	137,983 SQ. FT.**
MINIMUM LOT FRONTAGE	300'	503.16'
MINIMUM FRONT YARD SETBACK	50'	123.25'
MINIMUM SIDE YARD SETBACK	40'	26.26**
MINIMUM REAR YARD SETBACK	100'	31.54**
MAXIMUM BUILDING HEIGHT	39'	28'
MINIMUM LOT COVERAGE	25%	21.2%

* EXISTING NON-CONFORMING CONDITION.
 ** VARIANCE REQUESTED FOR DIMENSIONAL RELIEF.

SCALE (FEET)
 0 10 20 40 80
 1 INCH = 20 FT

REVISIONS:

NO.	DATE	DESCRIPTION

DESIGNED BY: JDC
 DRAWN BY: JRM, DCZ
 CHECKED BY: DMD
 DATE: NOV. 08
 PROJECT NO: 08-66

PRELIMINARY, NOT FOR CONSTRUCTION

SITE PLAN

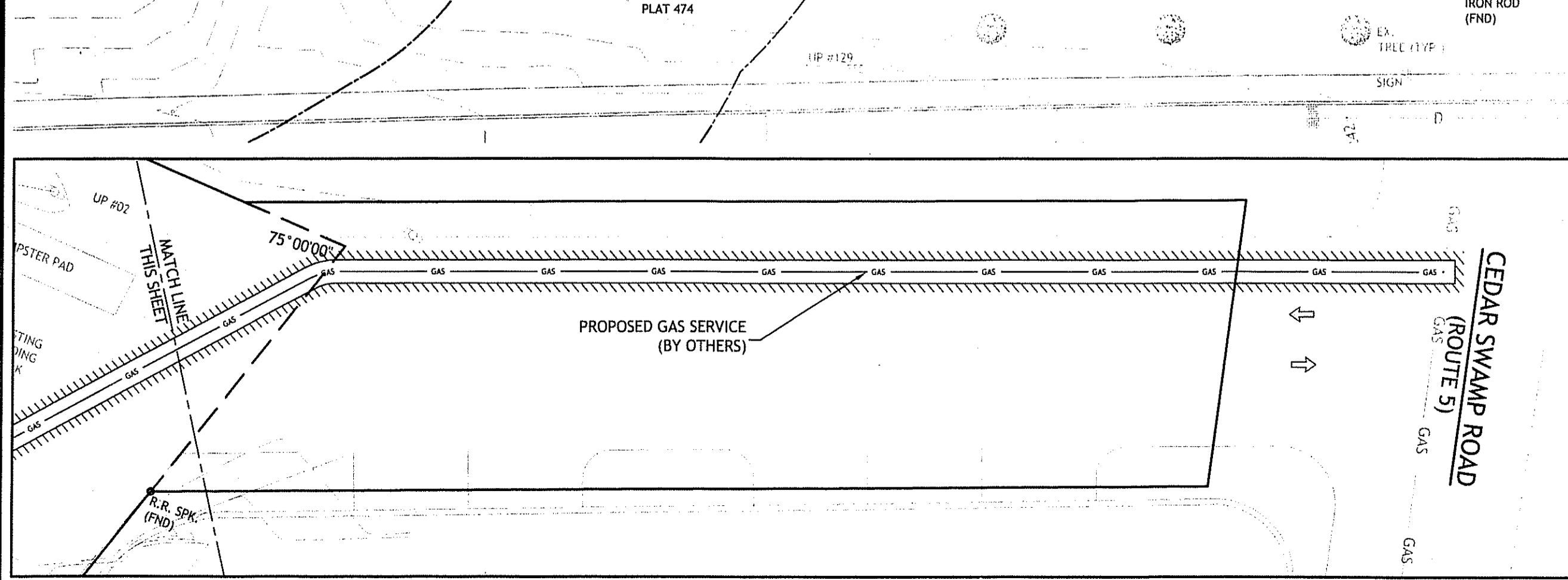
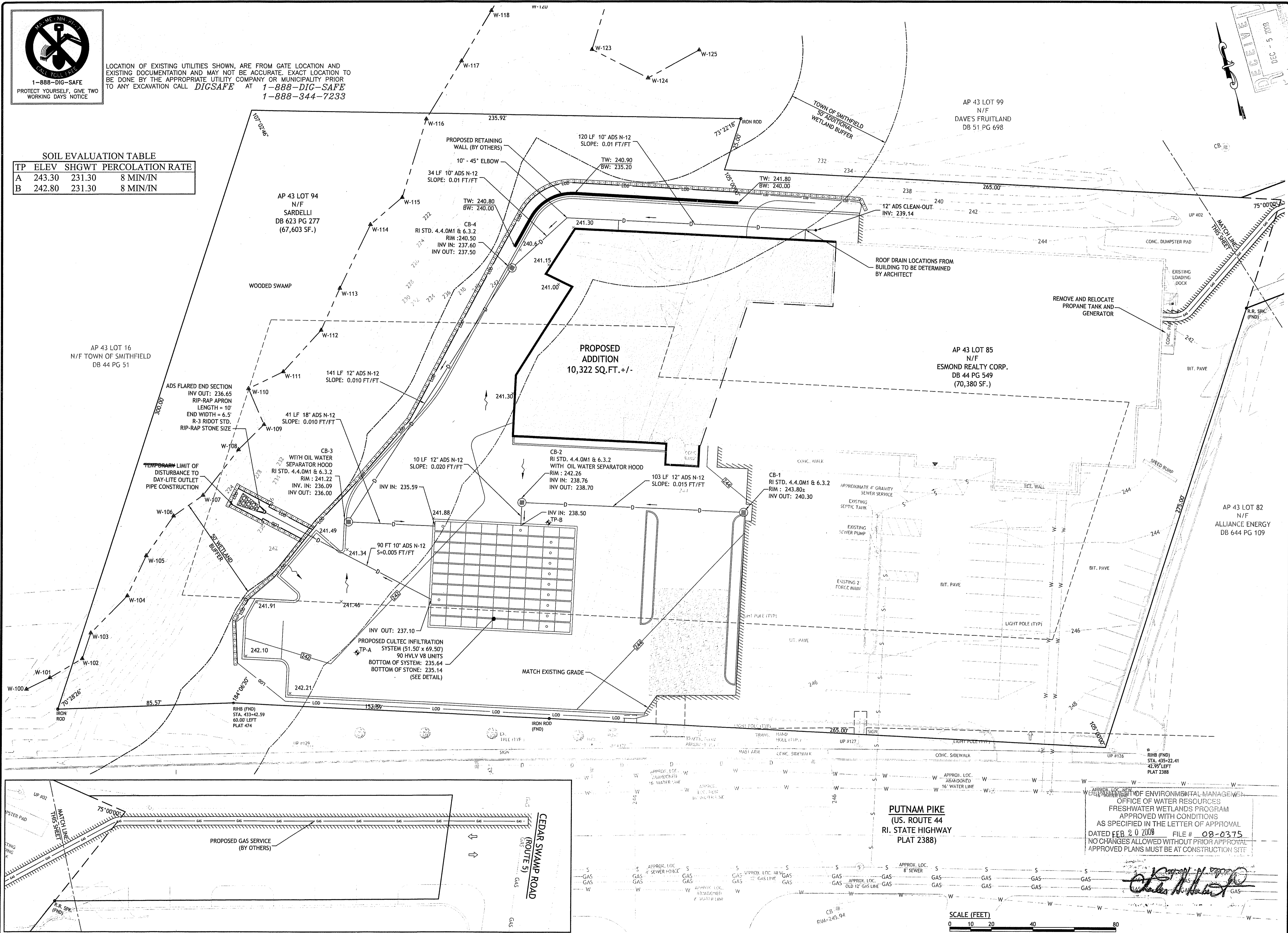
SHEET 4 OF 7



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 **DIGSAFE** AT 1-888-DIG-SAFE 1-888-344-7233

SOIL EVALUATION TABLE

TP	ELEV	SHGWT	PERCOLATION RATE
A	243.30	231.30	8 MIN/IN
B	242.80	231.30	8 MIN/IN



BENNY'S ADDITION
473 PUTNAM PIKE - (US ROUTE 44)
SMITHFIELD, RHODE ISLAND
AP 43 LOTS 85 & 94

REVISIONS:

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 DATE: NOV. 08
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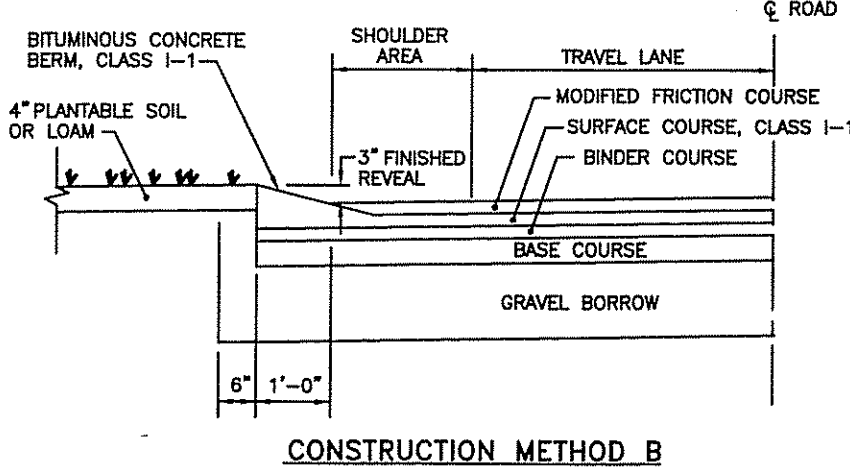
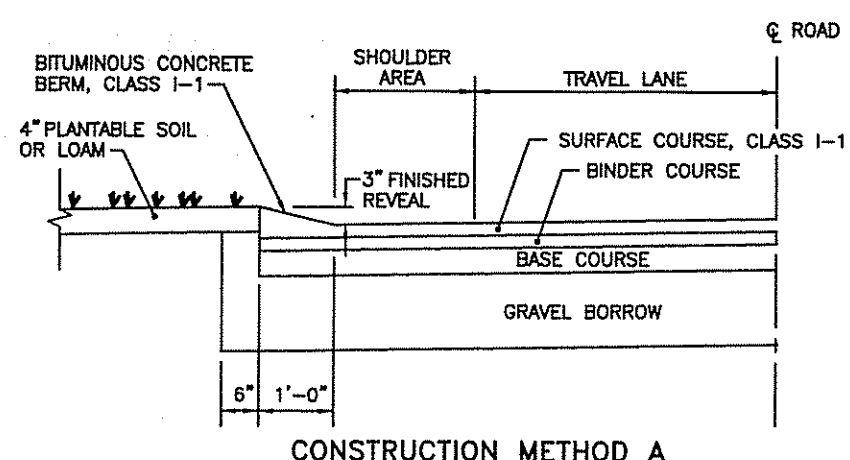
GRADING, DRAINAGE AND UTILITY PLAN

SHEET 5 OF 7

OFFICE OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
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 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PUTNAM PIKE
 (US. ROUTE 44)
 RI. STATE HIGHWAY
 PLAT 2388)

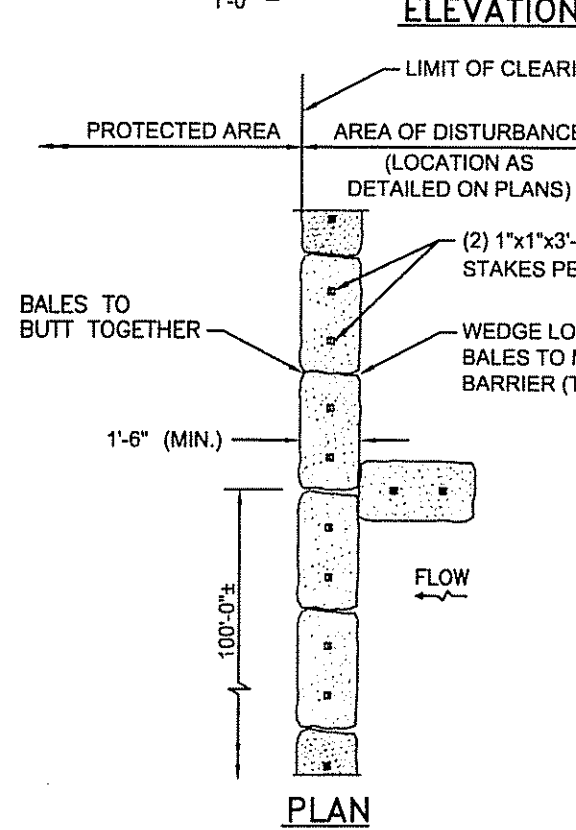
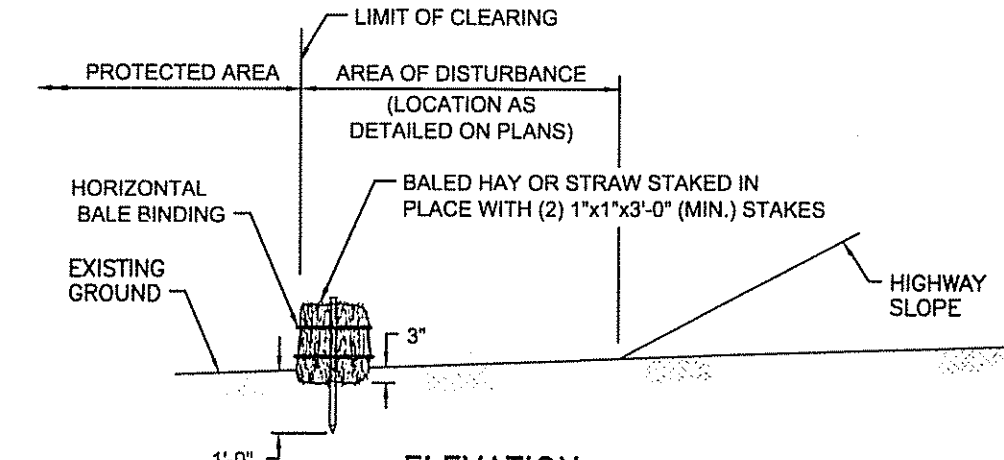
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NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
 2. BITUMINOUS BERM CAN BE PLACED AT THE SAME TIME THAT THE SURFACE COURSE LAYER IS PLACED ON THE PROJECT ROADWAY, OR IT CAN BE INSTALLED IN A SEPARATE OPERATION.

BITUMINOUS BERM

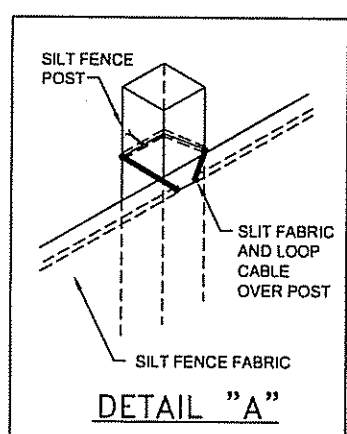
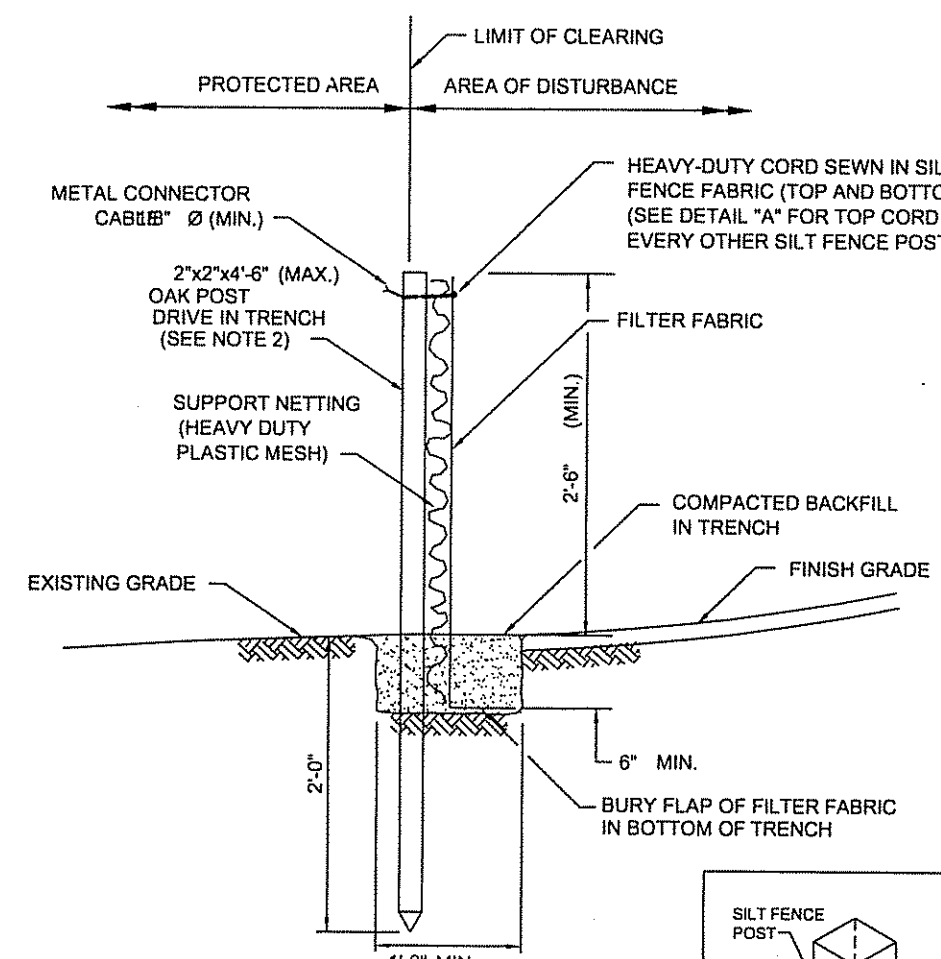
R.I. STANDARD 7.5.1



BALED HAY EROSION CHECK

R.I. STANDARD 9.1.0

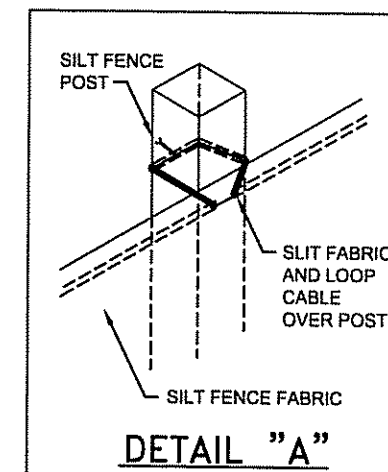
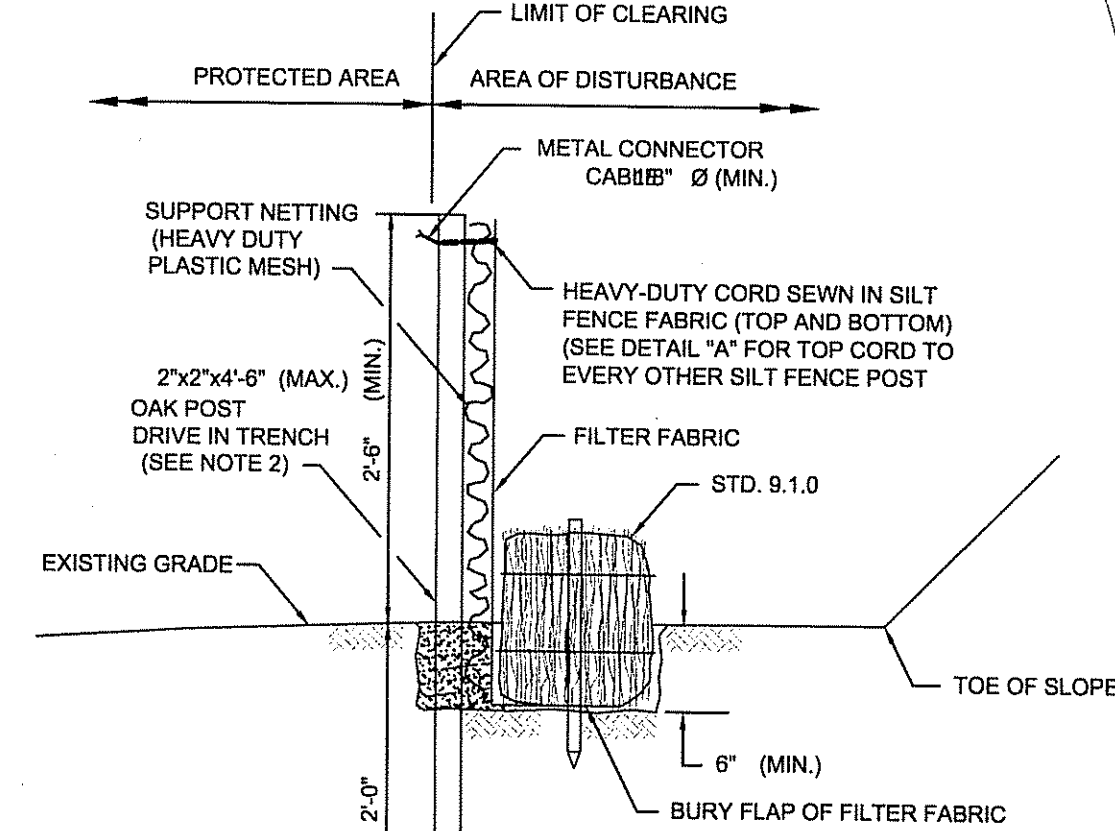
NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
 2. TO BE USED WHERE THE EXISTING GROUND SLOPES AWAY FROM THE HIGHWAY EMBANKMENT AS CALLED FOR ON PLANS.
 3. AT APPROXIMATE 100'-0" INTERVALS A BALE OF HAY IS TO BUTT PERPENDICULARLY.



SILT FENCE DETAIL

R.I. STANDARD 9.2.0

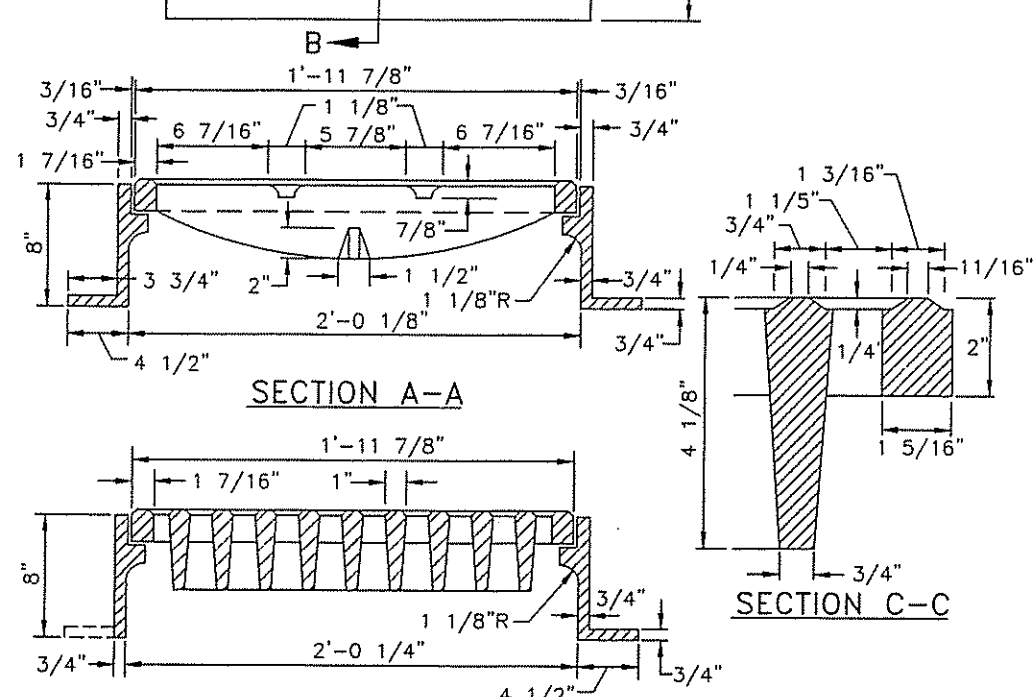
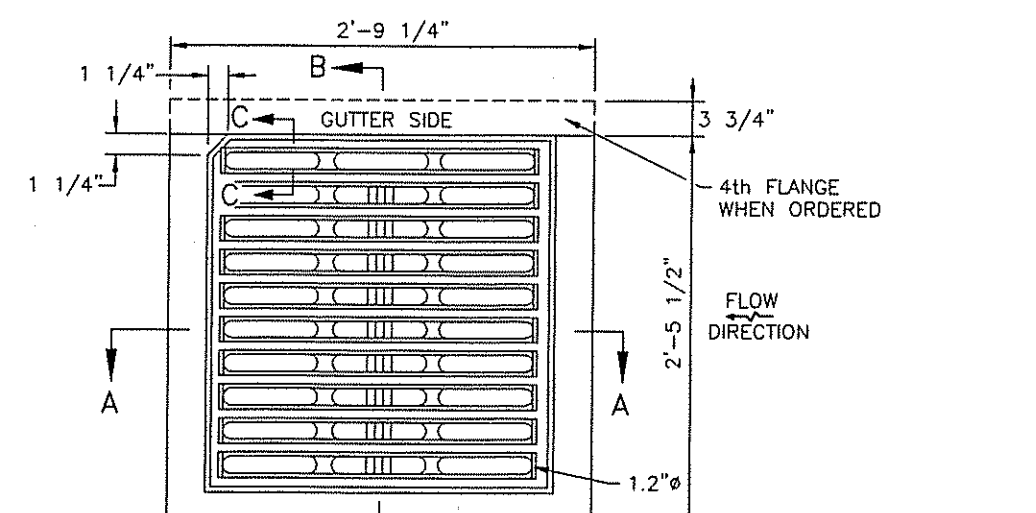
NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
 2. 2"x2"x4'-6" (MAX.) OAK POSTS FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAVIDE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
 3. 1"x1"x4'-6" (MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
 4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.



BALED HAY EROSION CHECK AND SILT FENCE COMBINED

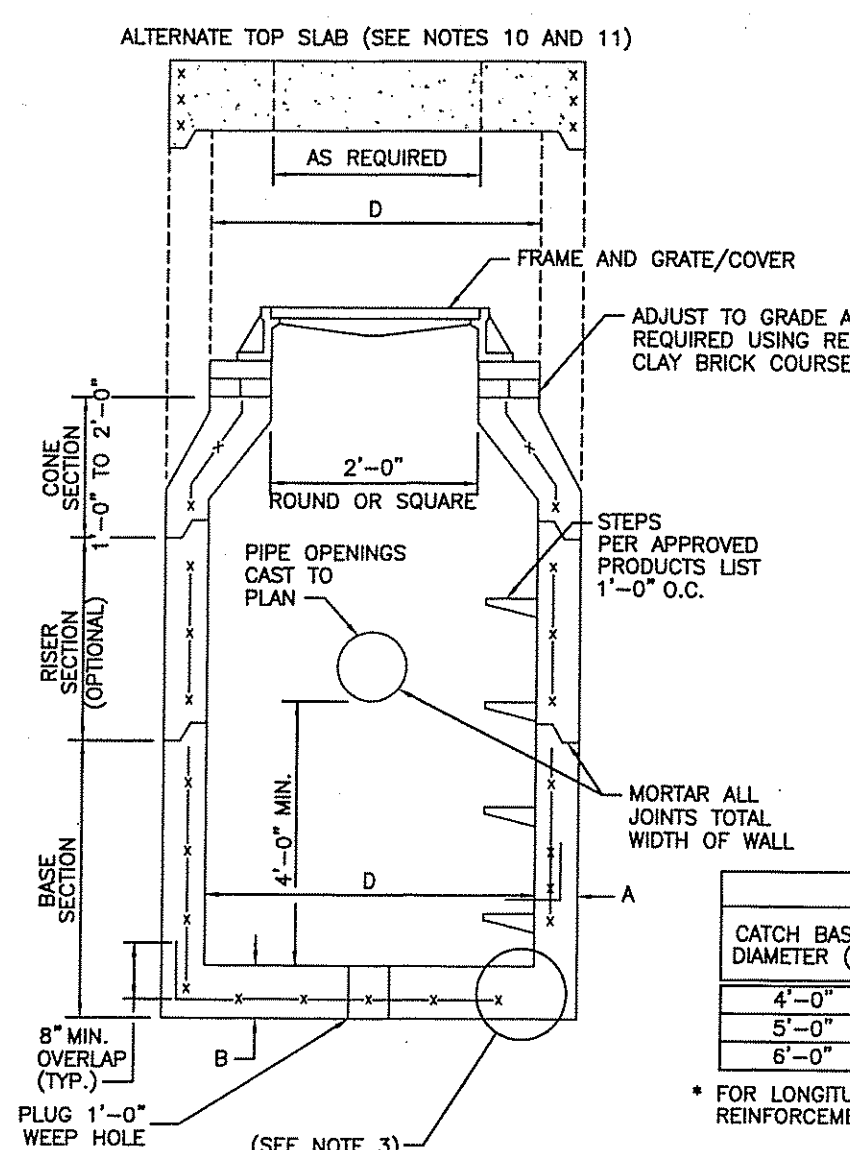
R.I. STANDARD 9.3.0

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" OAK POST FOR SILT FENCE SHALL BE LOCATED (MAX.) O.C. IN WETLAND AREAS AND (MAX.) O.C. IN WETLAND RAVIDE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
 3. 1"x1" POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
 4. SILT FENCE AND BALED HAY SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.



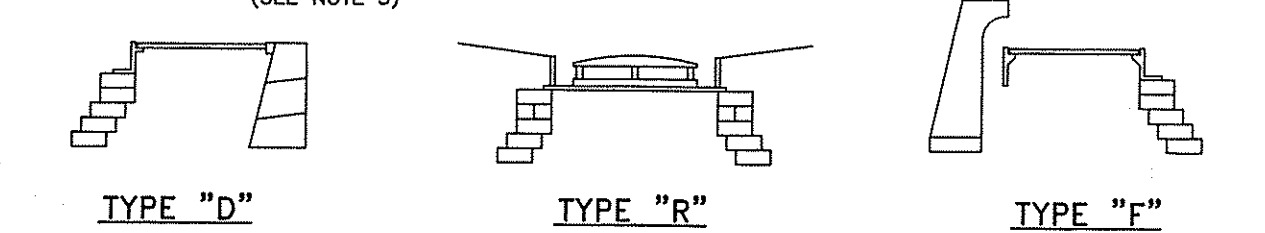
SQUARE FRAME AND GRATE (BICYCLE SAFE)

R.I. STANDARD 6.3.2



CATCH BASIN DIAMETER (D)	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED*	
	A	B
4'-0"	5"	6"
5'-0"	6"	7"
6'-0"	7"	8"

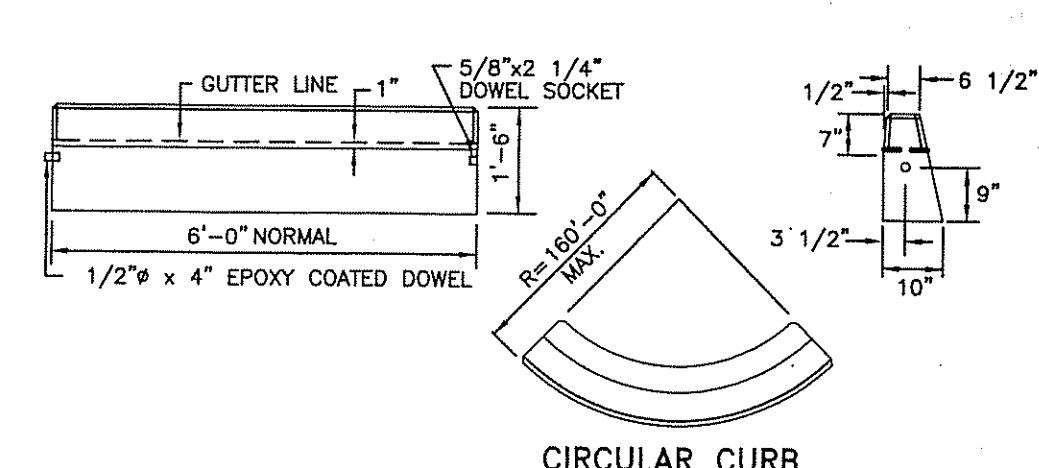
* FOR LONGITUDINAL (VERTICAL STANDING) REINFORCEMENT REFER TO ASTM C478, ITEM 8.1.2



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 TO BE USED 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" OR 6'-0" ROUND CATCH BASIN

R.I. STANDARD 4.4.0

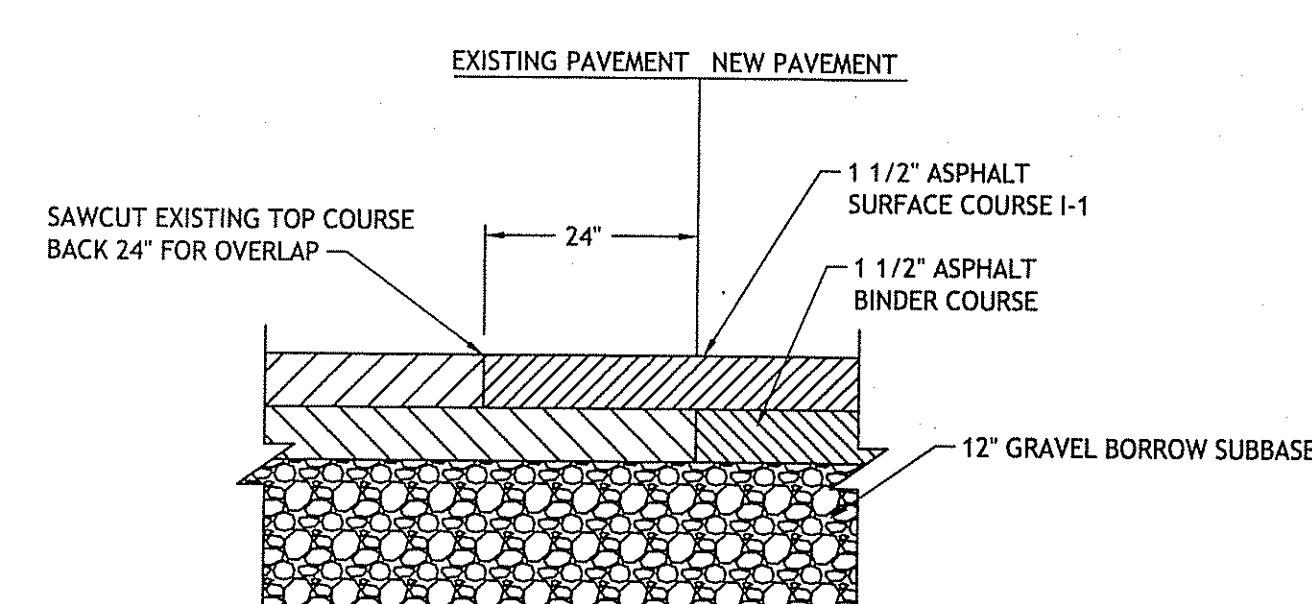


CIRCULAR CURB

NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
 2. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0".
 3. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
 4. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADII OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADII.
 5. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.

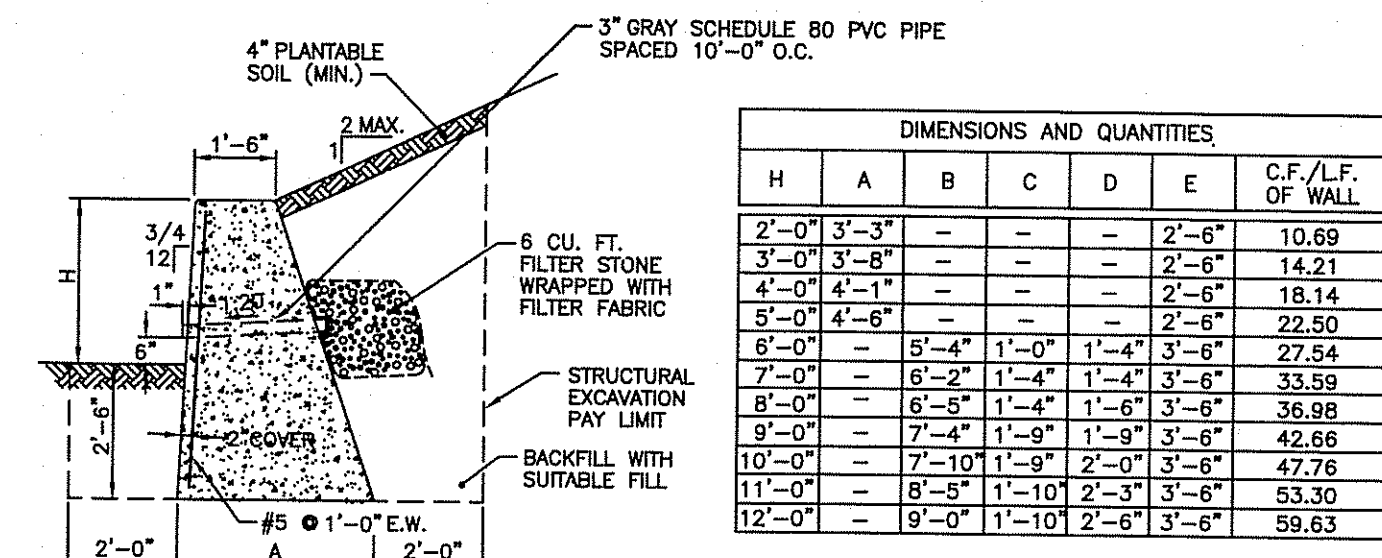
PRECAST CONCRETE CURB

R.I. STANDARD 7.1.0

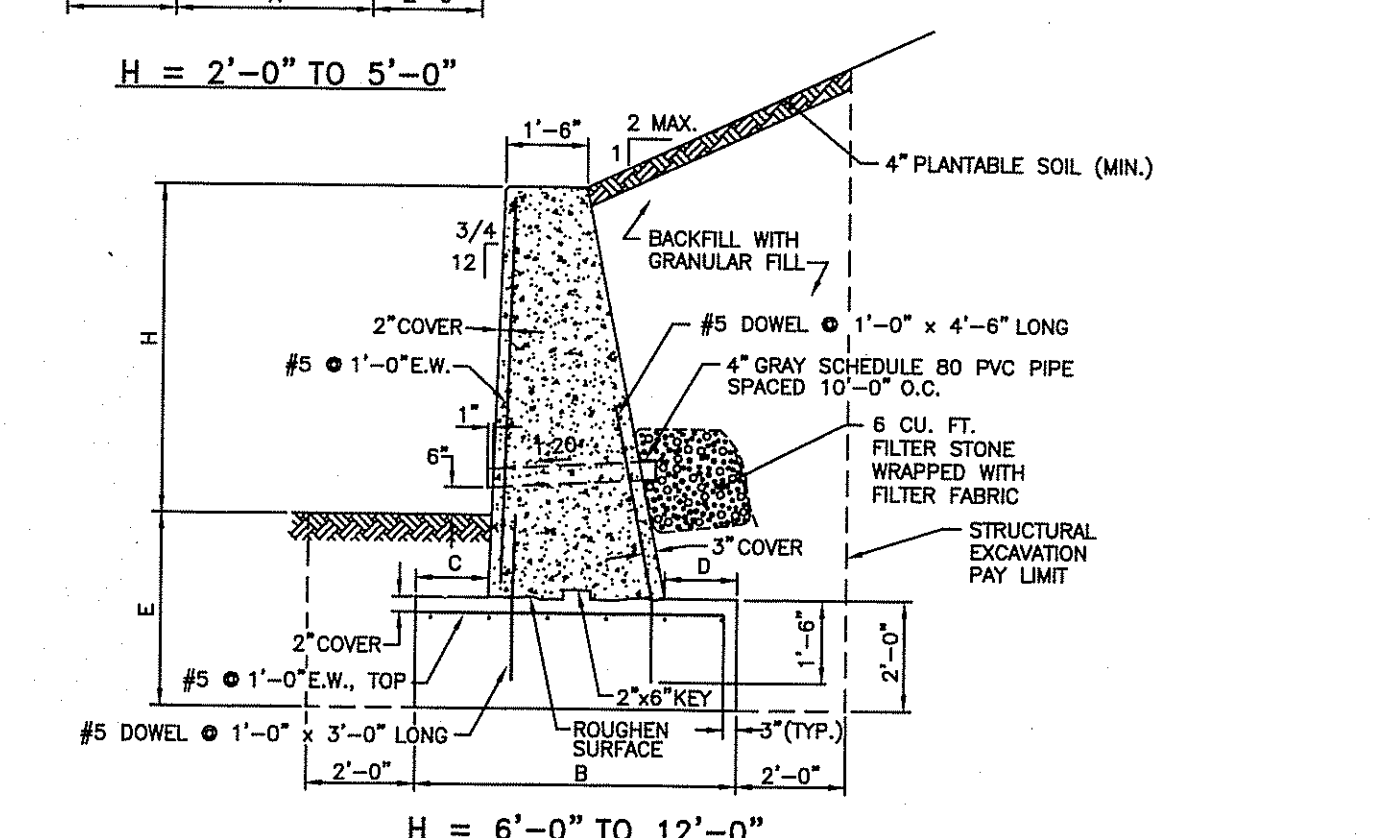


PAVEMENT CUT & MATCH

NOTES:
 PROVIDE BITUMINOUS TACK COAT AT ALL SAWCUTS.
 NOT TO SCALE



H	A	B	C	D	E	C.F./L.F. OF WALL
2'-0"	3'-3"	-	-	-	2'-6"	10.69
3'-0"	3'-8"	-	-	-	2'-6"	14.21
4'-0"	4'-1"	-	-	-	2'-6"	18.14
5'-0"	4'-6"	-	-	-	2'-6"	22.50
6'-0"	5'-4"	1'-0"	1'-4"	3'-8"	2'-6"	27.94
7'-0"	6'-2"	1'-4"	1'-4"	3'-8"	2'-6"	33.99
8'-0"	6'-5"	1'-4"	1'-6"	3'-6"	2'-6"	36.88
9'-0"	7'-4"	1'-9"	1'-9"	3'-6"	2'-6"	42.66
10'-0"	7'-10"	1'-9"	2'-0"	3'-6"	2'-6"	47.76
11'-0"	8'-5"	1'-10"	2'-3"	3'-6"	2'-6"	53.30
12'-0"	9'-0"	1'-10"	2'-6"	3'-6"	2'-6"	59.63



NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 806 OF THE R.I. STANDARD SPECIFICATIONS.
 2. USE 1/2" PREFORMED JOINT FILLER AND BEVEL EXPOSED EDGES WITH 3/4" CHAMFER.
 3. SEAL BACKFACE WITH 1/4"x1/2" JOINT SEALANT.
 4. SURFACE RIB EXPOSED FACE AND EDGES TO BE EPOXY COATED.
 5. ALL REINFORCING TO BE EPOXY COATED.
 6. PROVIDE EXPANSION JOINTS EVERY 25'-0" IN STEPS.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 CONCRETE RETAINING WALL WITH FILTER FABRIC
 (OR APPROVED EQUIVALENT) IS A SOURCE
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED FEB 20 2009 FILE # 08-0375
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED FOR THIS PROJECT

Charles A. Harter

CDE
 CASALI & DIAMICO ENGINEERING, INC.
 CIVIL, SITE DEVELOPMENT, TRANSPORTATION,
 DRAINAGE, WETLANDS, EIDS, TRAFFIC, FLOODPLAIN
 300 POST ROAD, WARWICK, RI 02886
 (401) 941-1550 (609) 484-1313 fax www.casaldiamico.com

DAVID M. DIAMICO
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 11/19/08

BENNY'S ADDITION
 473 PUTNAM PIKE - (US ROUTE 44)
 SMITHFIELD, RHODE ISLAND
 AP 43 LOTS 85 & 94

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DETAILS 1

SHEET 6 OF 7

