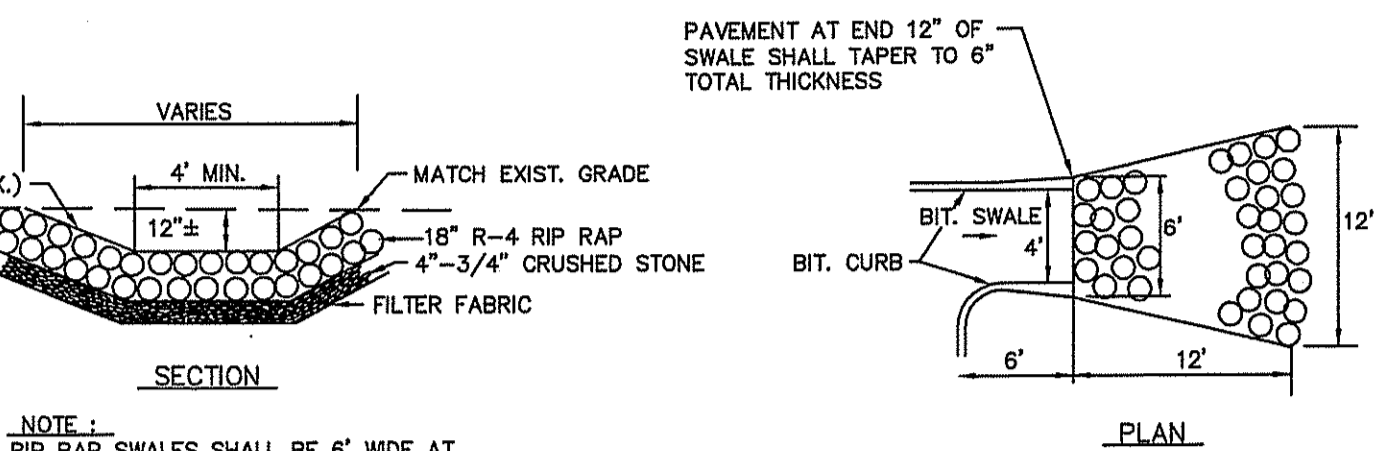


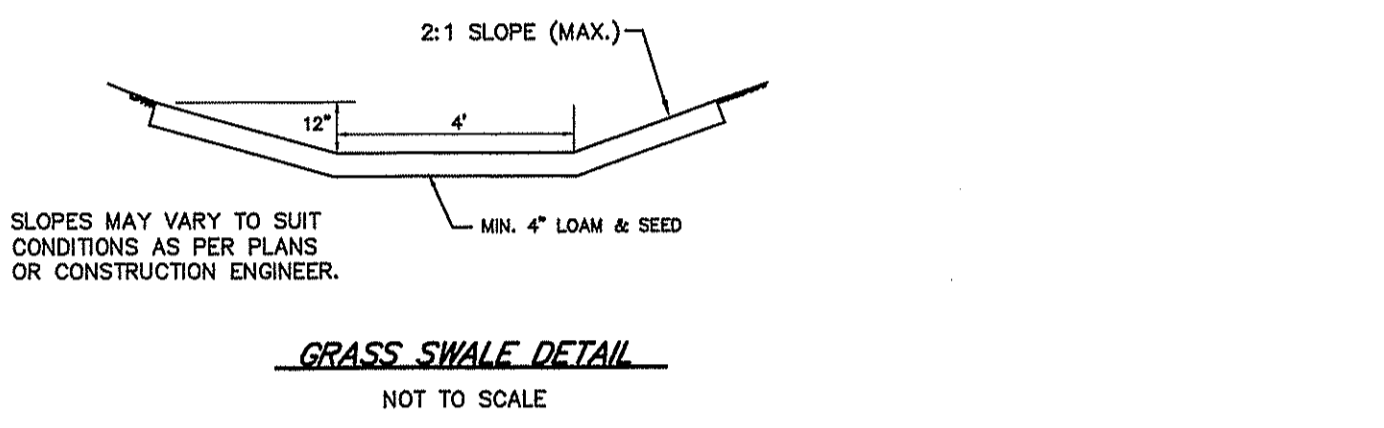
DETENTION BASIN DIMENSION TABLE

ELEV. (FT.)	AVG. LENGTH	AVG. WIDTH	AREA (S.F.)	OUTLET DATA
89.5	77'	7'	540	4" DIAM. ORIFICE @ EL. 92.42
90.0	80'	10'	800	4" DIAM. ORIFICE @ EL. 94.50
92.0	92'	22'	2,200	OUTLET WEIR @ EL. 95.25 W = 7", D = 9"
94.0	104'	34'	3,720	OVERFLOW WEIR EL. = 96.0 W = 10'-0", D = 12"
96.0	116'	46'	5,560	
97.0	122'	52'	6,460	

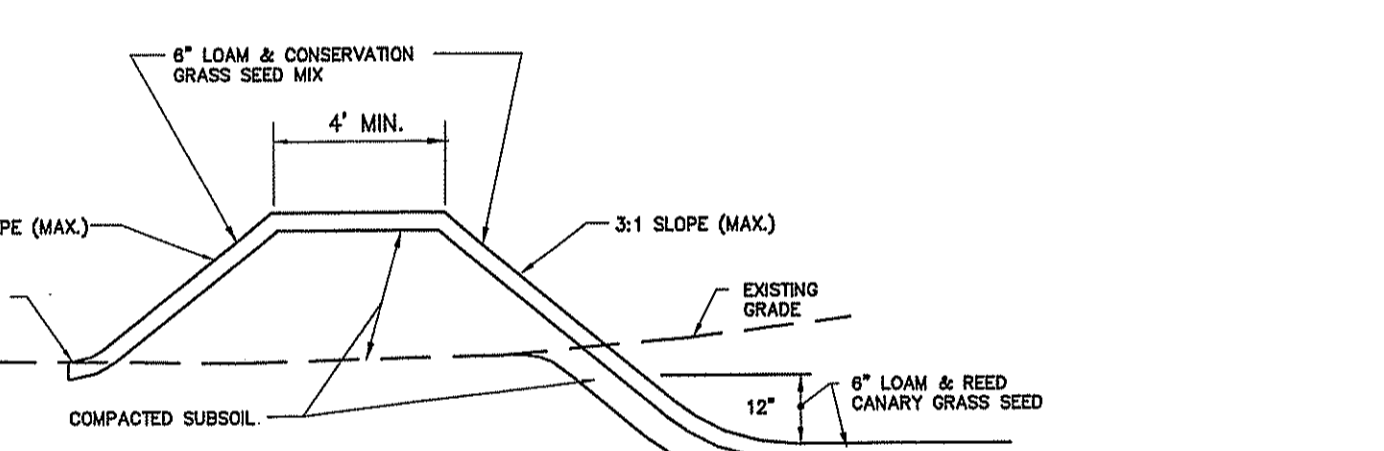
BASIN IS DESIGNED TO BE AN EXTENDED DETENTION BASIN WITH WET BOTTOM HAVING A SEMI-PERMANENT POOL OF WATER 35" DEEP. ALL DIMENSIONS MUST BE ACCURATELY CONSTRUCTION STAKED & AS-BUILTS VERIFIED BY THE ENGINEER.



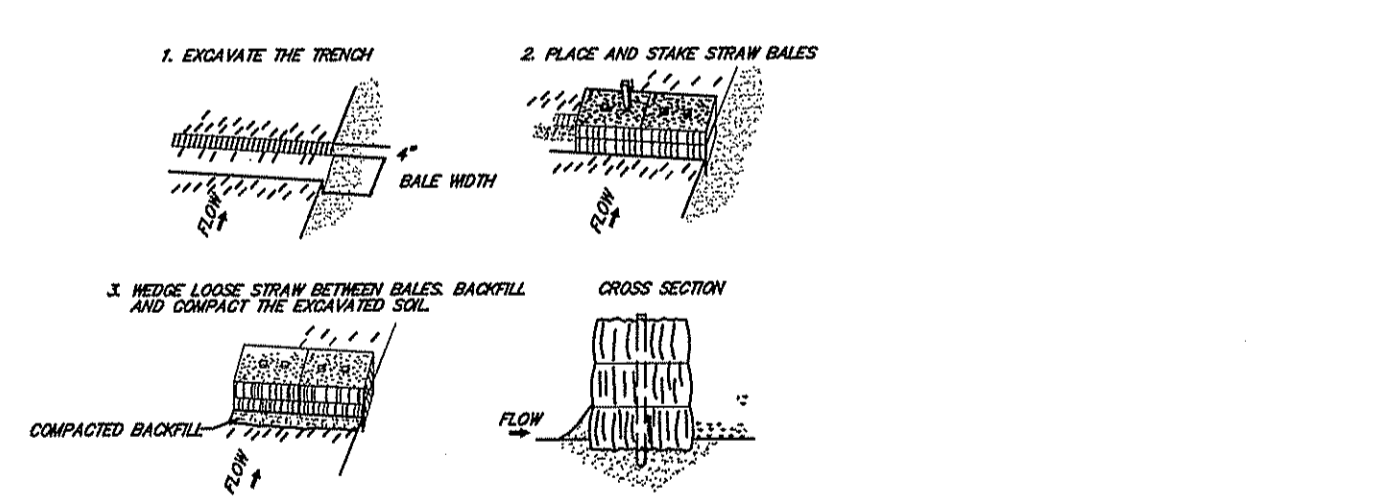
RIP RAP SWALE DETAIL



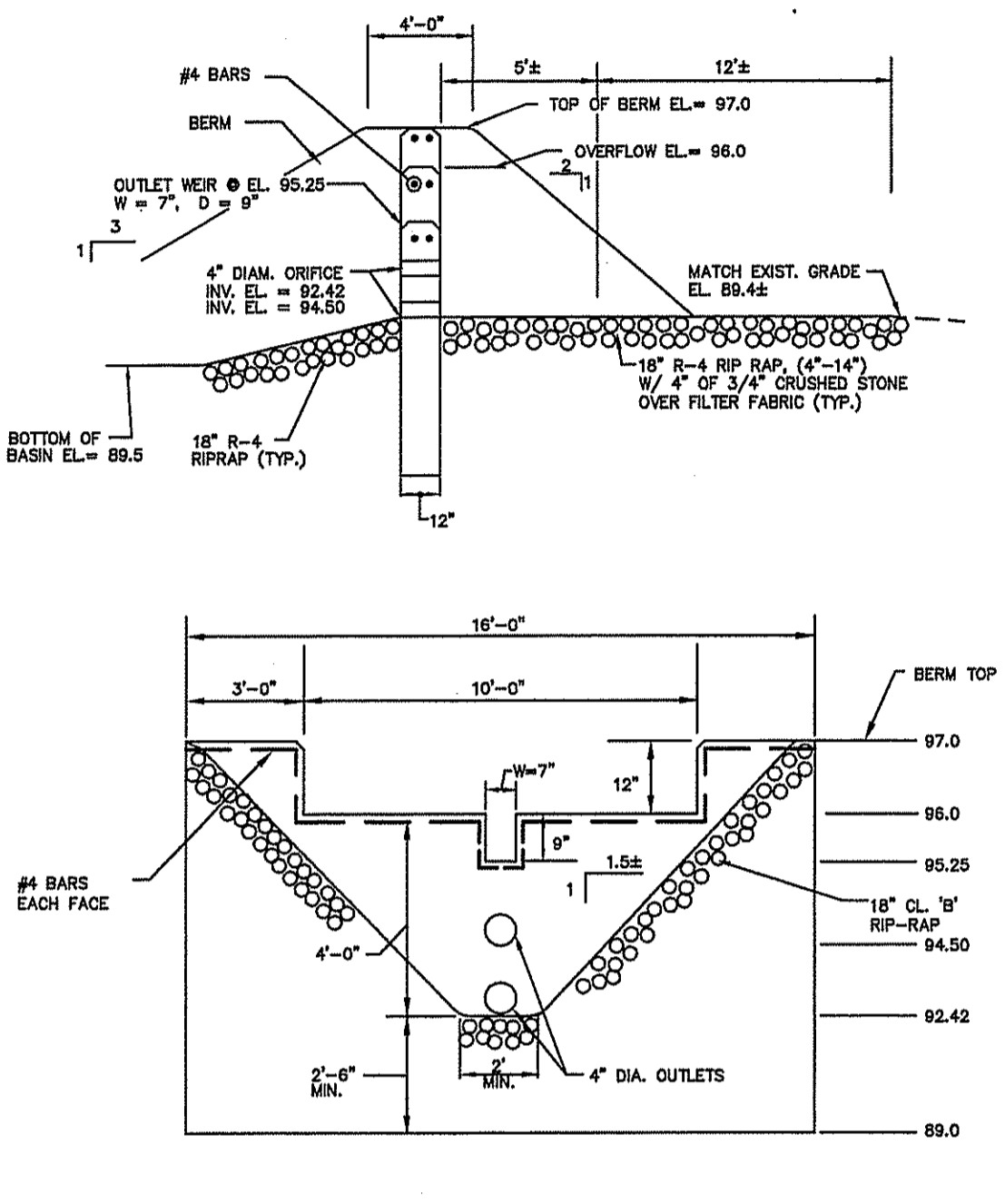
GRASS SWALE DETAIL



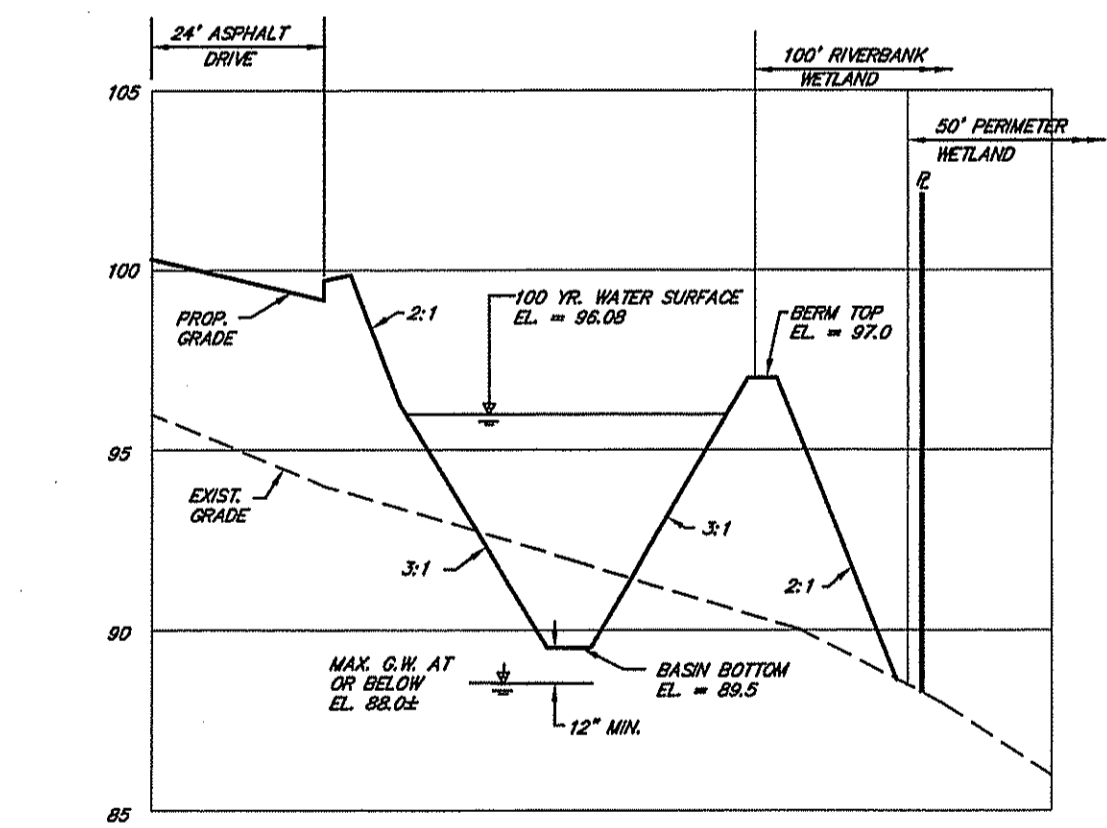
TYPICAL BERM DETAIL



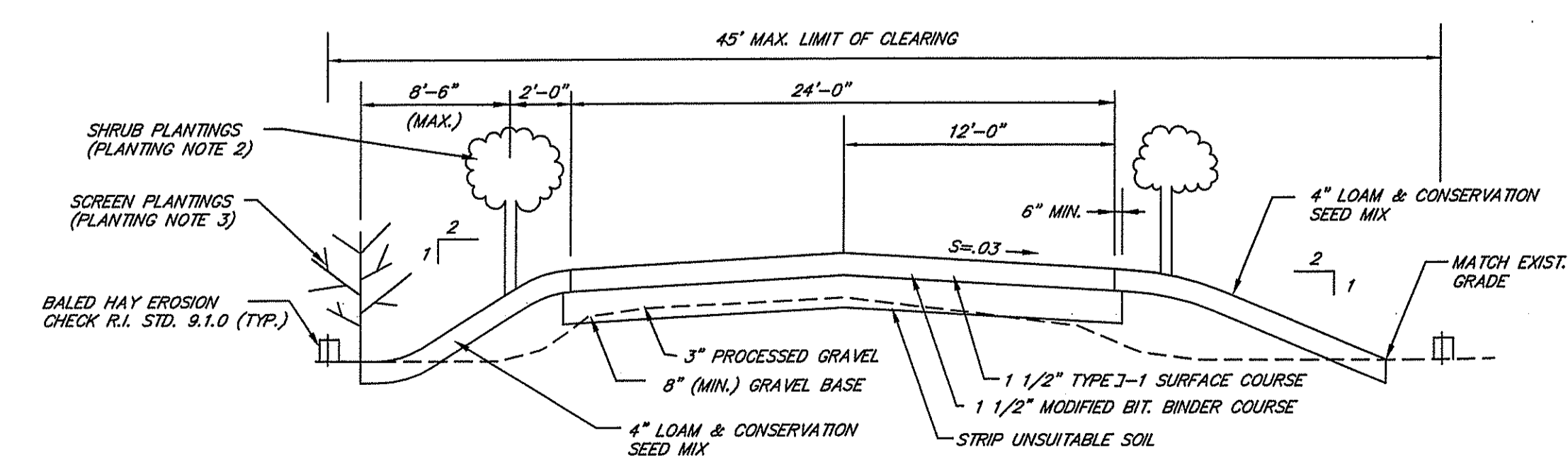
STAKED BALED HAY EROSION CHECK DETAIL



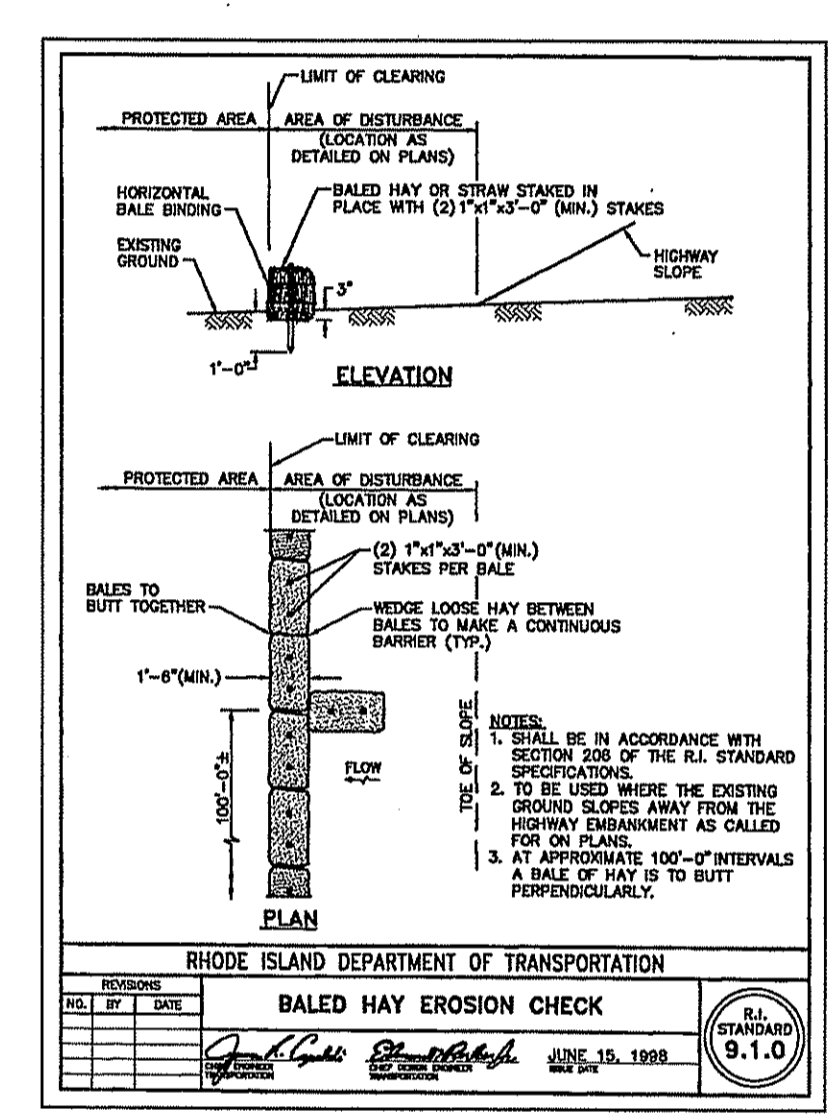
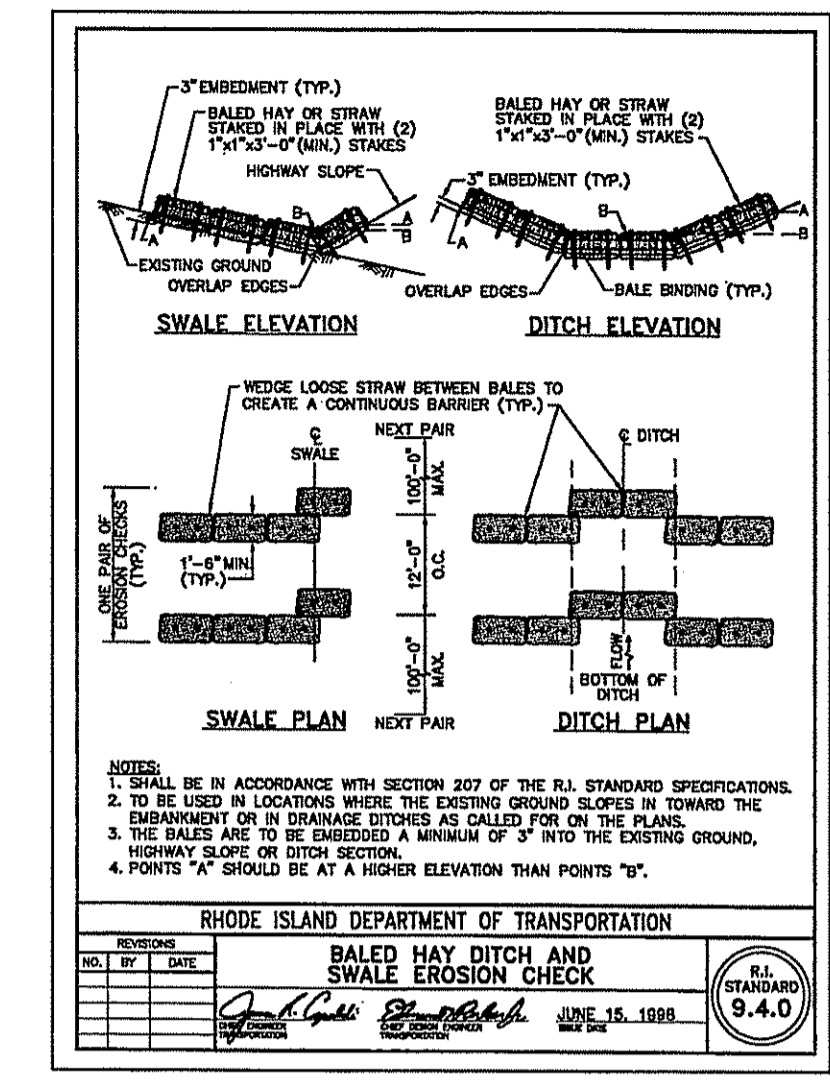
CONCRETE WEIR WALL DETAILS



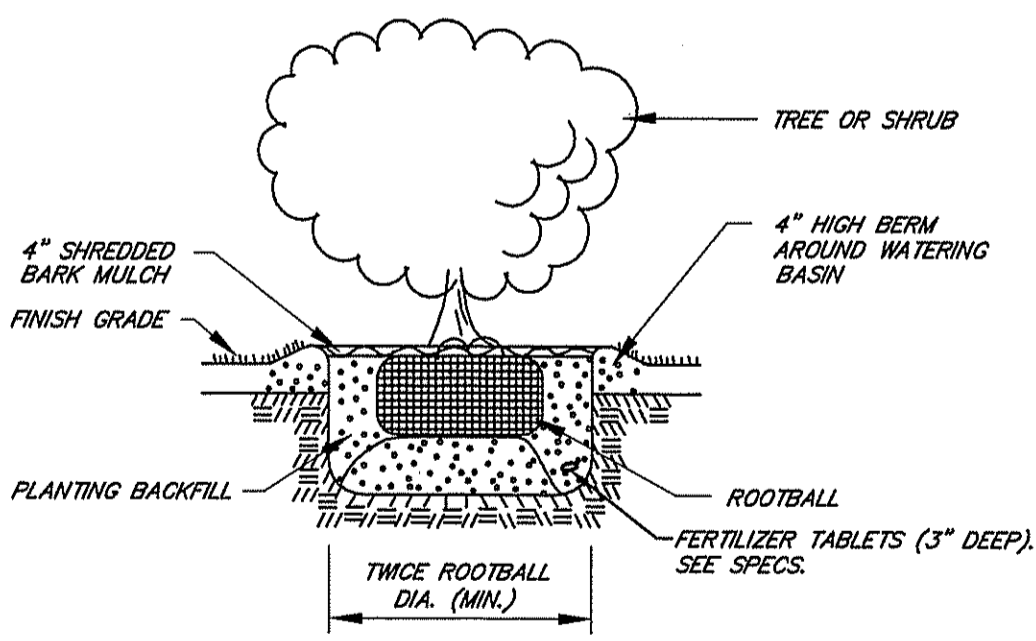
DETENTION BASIN SECTION A-A



DRIVEWAY SECTION



BALED HAY EROSION CHECK



TREE PLANTING DETAIL

PLANTING NOTES :

- SELECTED TREES TO REMAIN SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH CHAPTER 4, SECTION E OF THE "R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK".
- TOPS OF SLOPES SHALL PLANTED WITH AN EQUAL MIX OF INKBERY, RED-OSIER DOGWOOD, AND COMMON WINTERBERRY, SPACED 4' O.C. 46' OF EACH REQ'D. 2' TO 4' HIGH.
- TOES OF SLOPES SHALL BE PLANTED WITH AN EQUAL MIX OF EASTERN WHITE PINE AND NORTHERN WHITE CEDAR SPACED 10' O.C., 18' OF EACH REQ'D., 3' TO 4' HIGH.
- ANY PLANTING WHICH FAILS TO SURVIVE FOR ONE FULL GROWING SEASON SHALL BE REPLACED AT NO COST TO THE OWNER OR DEVELOPER. REPLACEMENT PLANTINGS SHALL BE SIMILARLY GUARANTEED FOR ONE FULL YEAR.
- ALL DISTURBED AREAS WITHIN THE JURISDICTIONAL WETLANDS SHALL BE STABILIZED WITH 4" LOAM & CONSERVATION GRASS SEED MIX AND COVERED WITH SPREAD STRAW MULCH.
- SEE TREE PLANTING DETAIL, SHEET 3.

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 PER NOV 18 2005 LETTER OF APPROVAL
DATED _____ FILE # DS-022
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

SCOTT F. MOOREHEAD
REGISTERED PROFESSIONAL ENGINEER
No. 4298

DATE	REVISION
9-11-97	WEIR
10-5-98	WATER
4-05	UPDATE FOR FWI APPL.

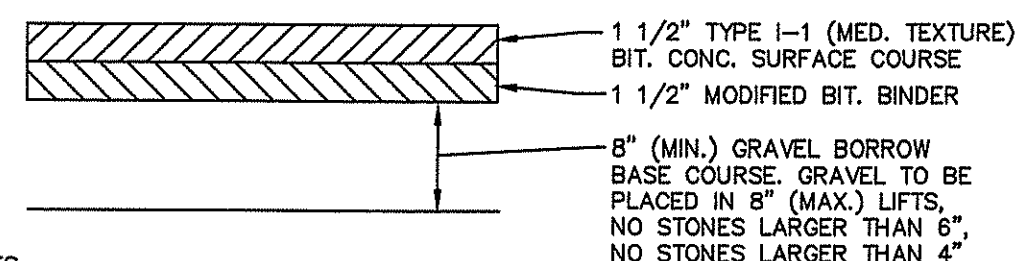
SFM

S.F.M. ENGINEERING ASSOCIATES
410 TIOGUE AVENUE
COVENTRY, R.I. 02816
(401)826-3736

PROPOSED OFFICE BUILDING
ASSESSOR'S PLAT 11G LOT 611
SOUTH COUNTY TRAIL
EAST GREENWICH, R. I.

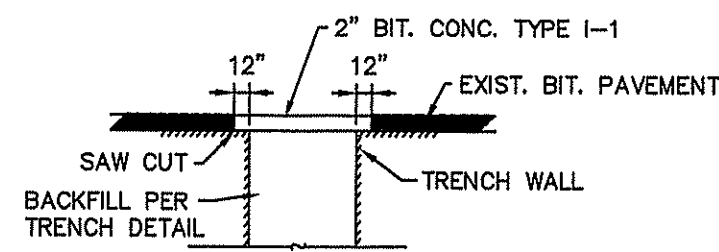
PREPARED FOR:
MARK SHOVLIN
135 WESTMORELAND STREET
NARRAGANSETT, R.I. 02882

EROSION CONTROL NOTES & DETAILS
DATE: MAY 21, 1997 SCALE: AS NOTED SHEET 3 OF 4

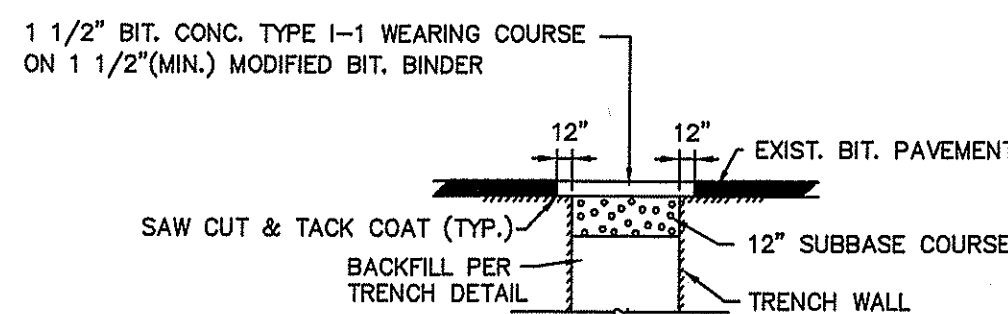


- NOTES:**
- ALL GRAVEL BASE COURSES SHALL BE COMPACTED TO MIN. 95% OF MAX. DENSITY.
 - ALL BIT. CONC. COURSES SHALL BE COMPACTED TO MIN. 95% OF MARSHALL DENSITIES.

TYPICAL PAVEMENT DETAIL
NOT TO SCALE



TEMPORARY PAVEMENT PATCH
NOT TO SCALE

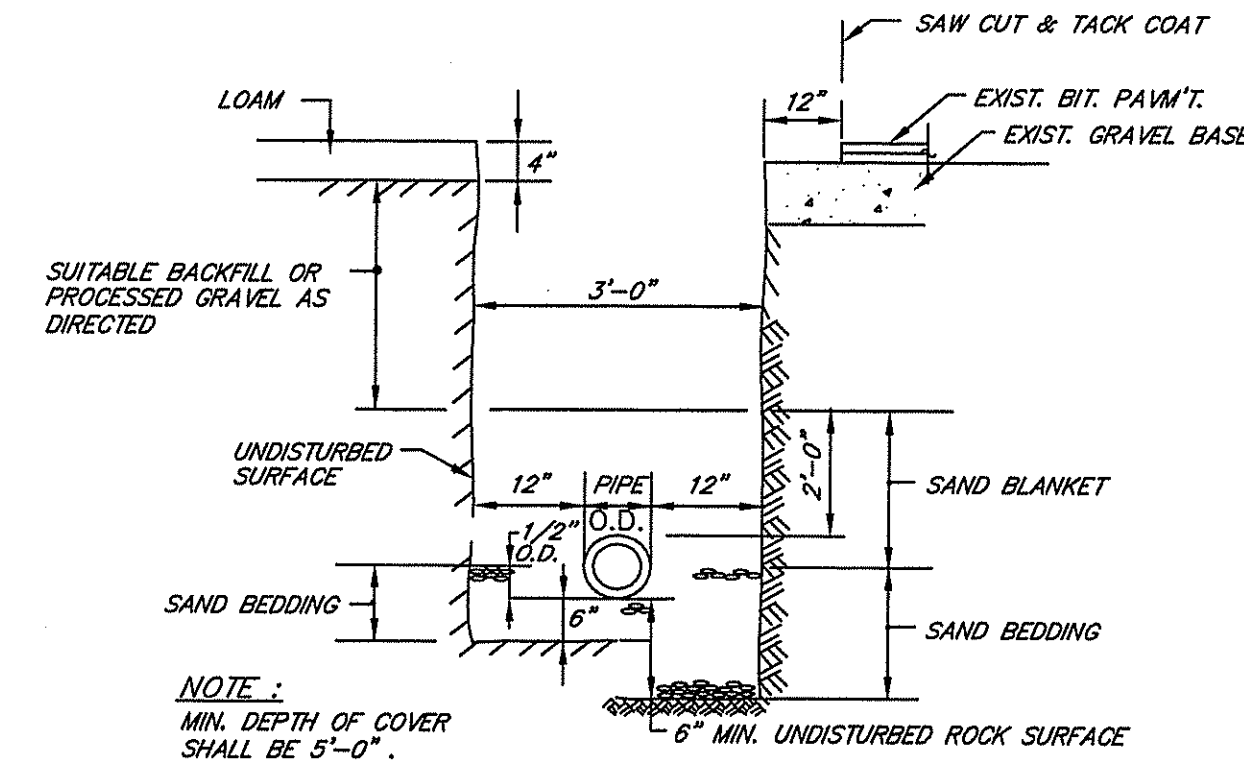


- NOTE:**
- ALL PAVEMENT EDGES SHALL BE TACK COATED.
 - RESAW CUT EXIST. BIT. PAVMT. 12\"/>

PERMANENT PAVEMENT PATCH
NOT TO SCALE

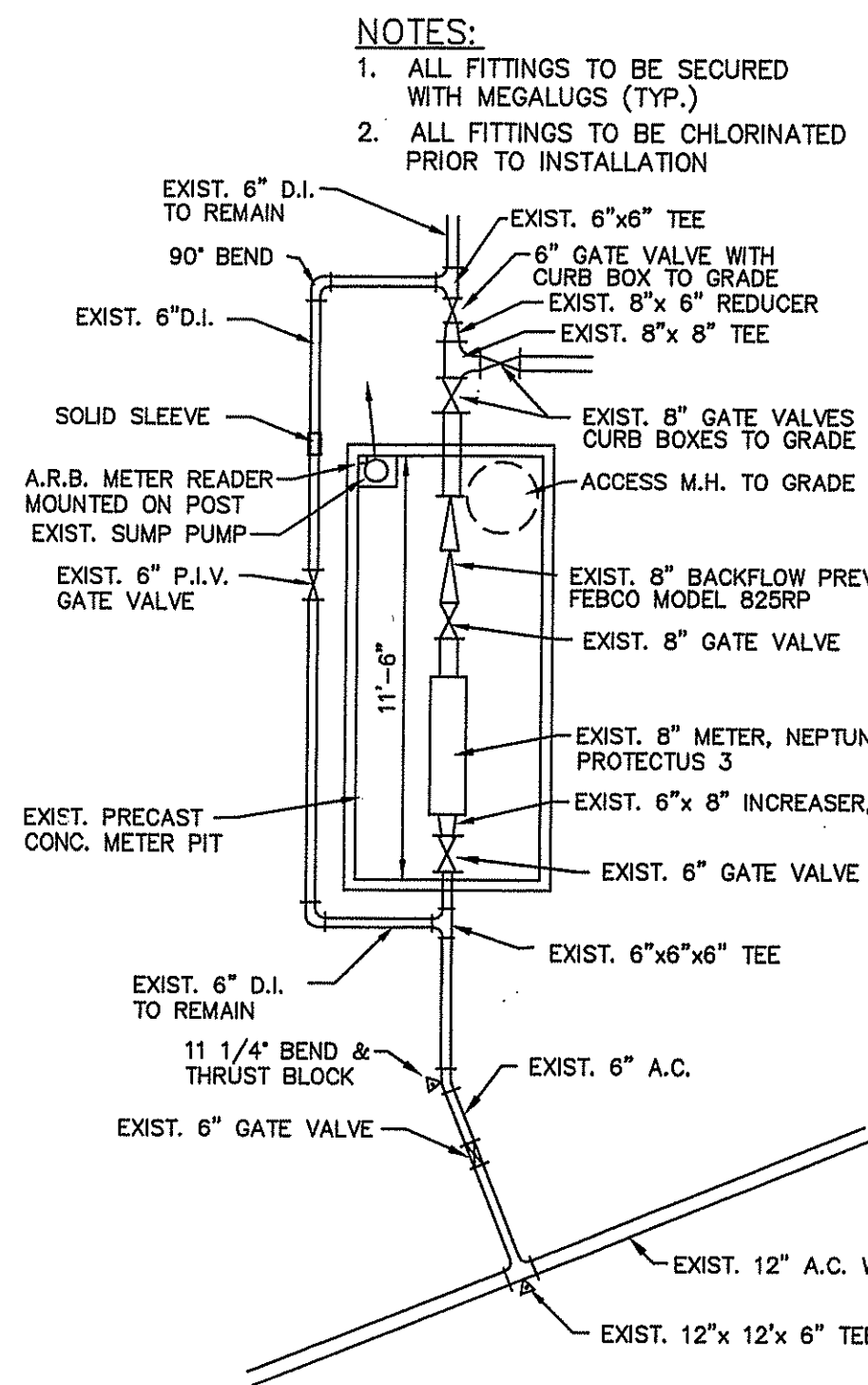
ADS End Section Dimensions

Pipe Diameter	Part No.	Dimensions, inches (mm)			
		A, ± 1 (25)	B MAX	H, ± 1 (25)	W, ± 2 (50)
18 (450)	1810 NP	6.5 (165)	19 (254)	6.5 (165)	25 (252)
24 (600)	2410 NP	7.5 (190)	19 (240)	6.5 (165)	32 (813)
30 (750)	3010 NP	7.5 (190)	19 (240)	6.5 (165)	45 (1143)
36 (900)	3610 NP	10.5 (266)	NA	7.0 (178)	63 (1348)
42 (1050)	4210 NP	10.5 (266)	NA	7.0 (178)	88 (1725)



NOTE:
MIN. DEPTH OF COVER SHALL BE 5'-0\"/>

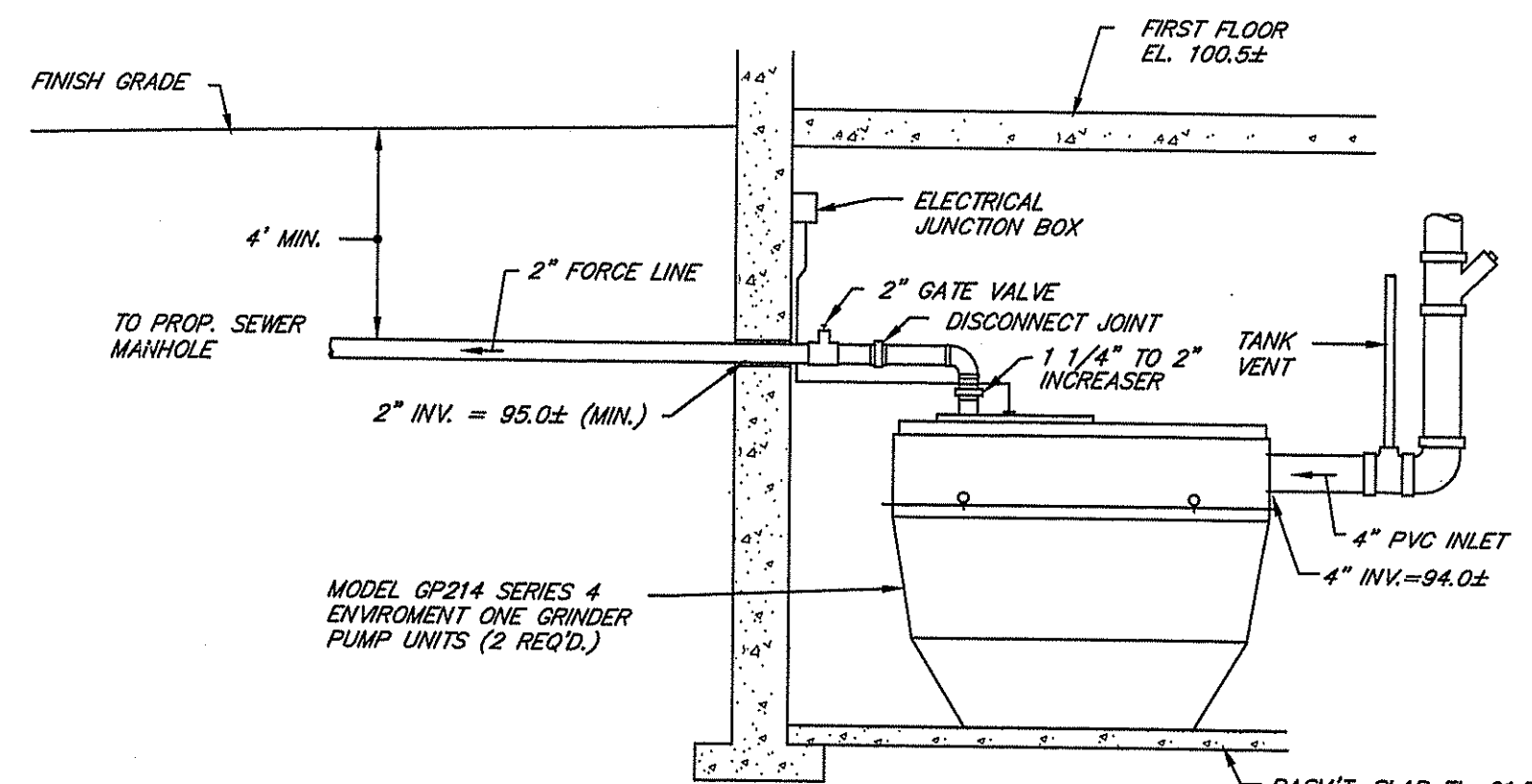
LOW PRESSURE SEWER TRENCH DETAIL
NOT TO SCALE



WATER METER CHAMBER DETAIL
NOT TO SCALE

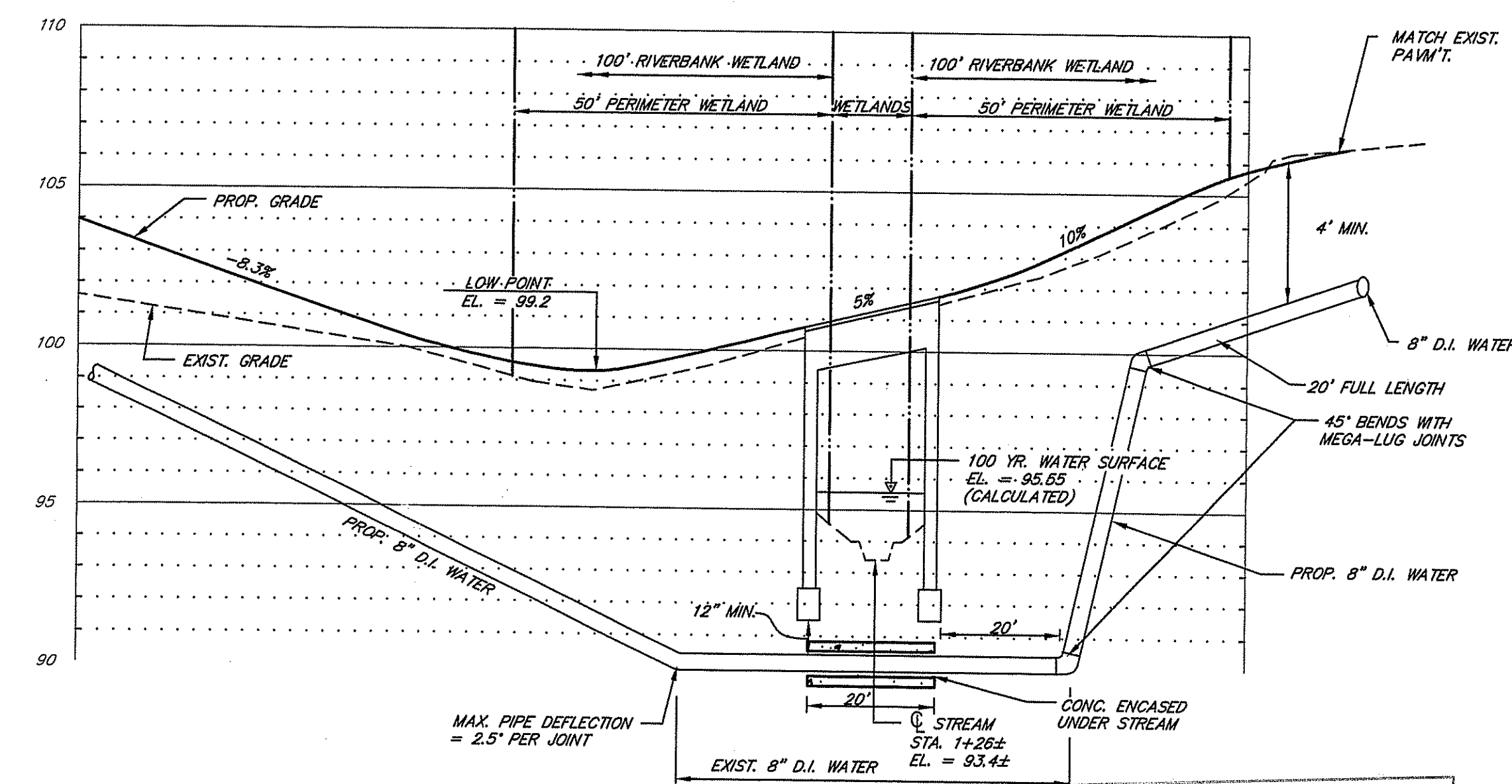
INFILTRATOR MAINTENANCE NOTES:

- DURING CONSTRUCTION AND THE FIRST 6 MONTHS OF OPERATION, THE INFILTRATOR SYSTEM SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EACH RAINFALL EVENT THAT GENERATES .25 INCHES OF RAIN IN A 24 HOUR PERIOD. AFTER THE FIRST SIX MONTHS OF OPERATION, THE INFILTRATOR SYSTEM SHALL BE INSPECTED TWICE PER YEAR.
- THE CLEAN-OUT LOCATED SOUTH OF THE SYSTEM SHALL BE CLEANED A MINIMUM OF TWICE PER YEAR (SPRING AND FALL). REMOVED SILTS AND OIL SHALL BE DISPOSED OF AT A LICENSED WASTE FACILITY IN ACCORDANCE WITH ALL APPLICABLE STATE AND FEDERAL REGULATIONS.
- THE INFILTRATOR SHALL BE INSPECTED VIA THE INSPECTION MANHOLE. IN THE EVENT THAT THE SYSTEM HAS STANDING WATER FOR MORE THAN 72 HOURS AFTER A RAINFALL EVENT THE SYSTEM SHALL BE CONSIDERED FAILED. A FAILED SYSTEM MUST BE REPLACED OR REPAIRED BY THE RESPONSIBLE PARTY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION AND MAINTENANCE OF ALL DRAINAGE FACILITIES, AS PER THEIR RESPECTIVE PROGRAMS, UNTIL FINAL ACCEPTANCE BY THE OWNER.
- UPON FINAL ACCEPTANCE, THE OWNER SHALL BE RESPONSIBLE FOR ALL DRAINAGE INSPECTION AND MAINTENANCE.
- ANY UNAUTHORIZED OR DELIBERATE DISCHARGE OF WASTE OIL OR ANY OTHER POLLUTANT TO THE STORMWATER DISPOSAL SYSTEM REQUIRES IMMEDIATE NOTIFICATION OF THE RIDEM-UC PROGRAM.
- 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 RIDEM WILL REQUIRE THE PROPERTY OWNER TO REMEDIATE ANY INCIDENTS THAT MAY ADVERSELY IMPACT THE QUALITY OF THE GROUNDWATER.



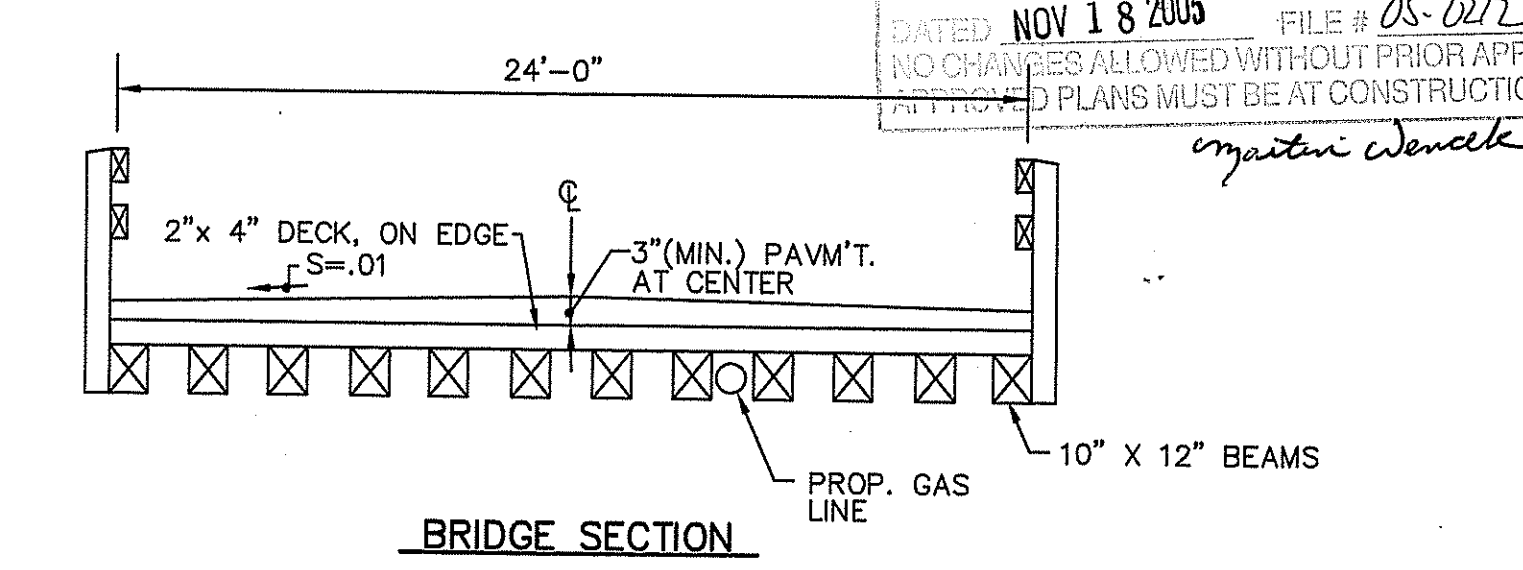
SEWER SERVICE SECTION
NOT TO SCALE

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

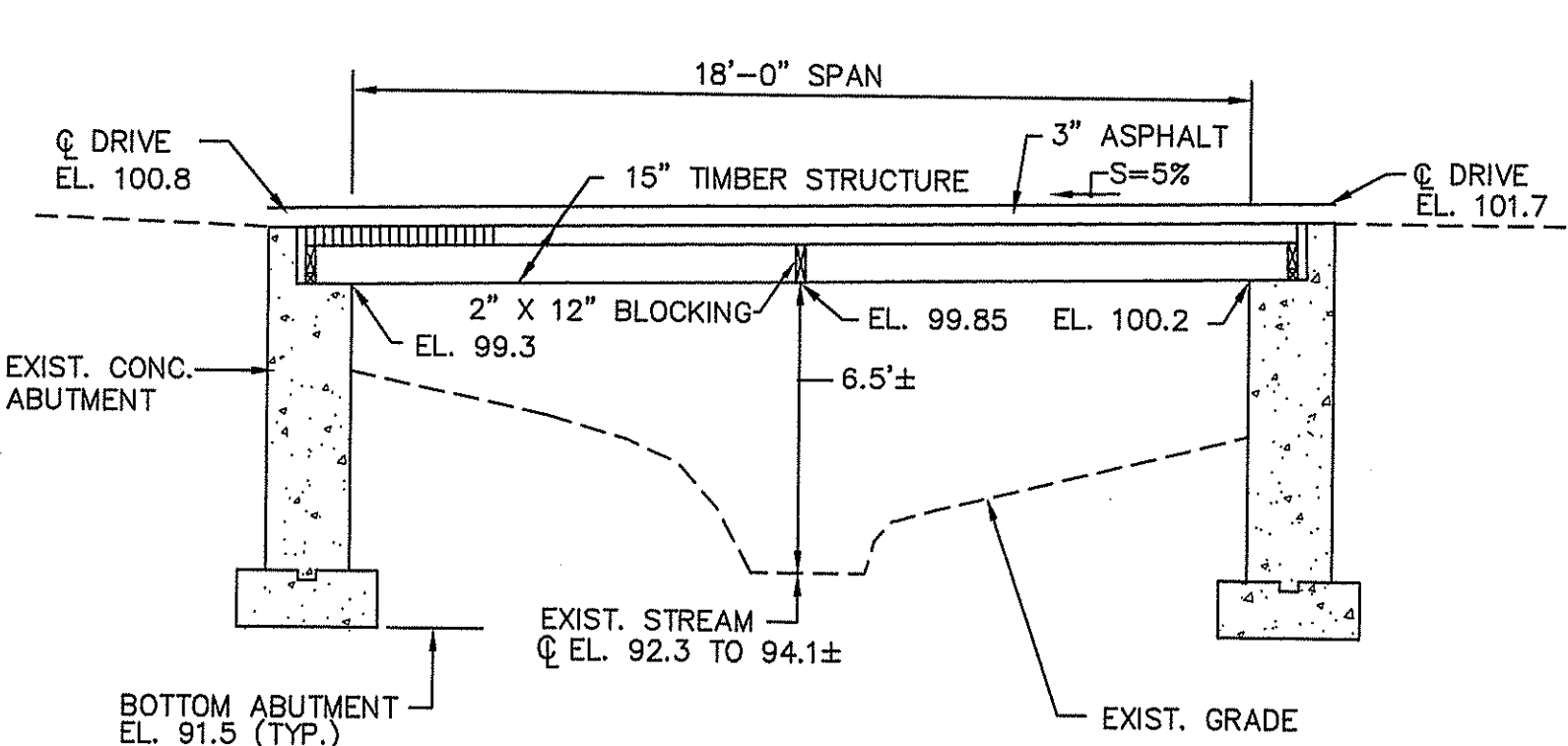


BRIDGE PROFILE
SCALE: HOR. 1" = 20'
VERT. 1" = 4'

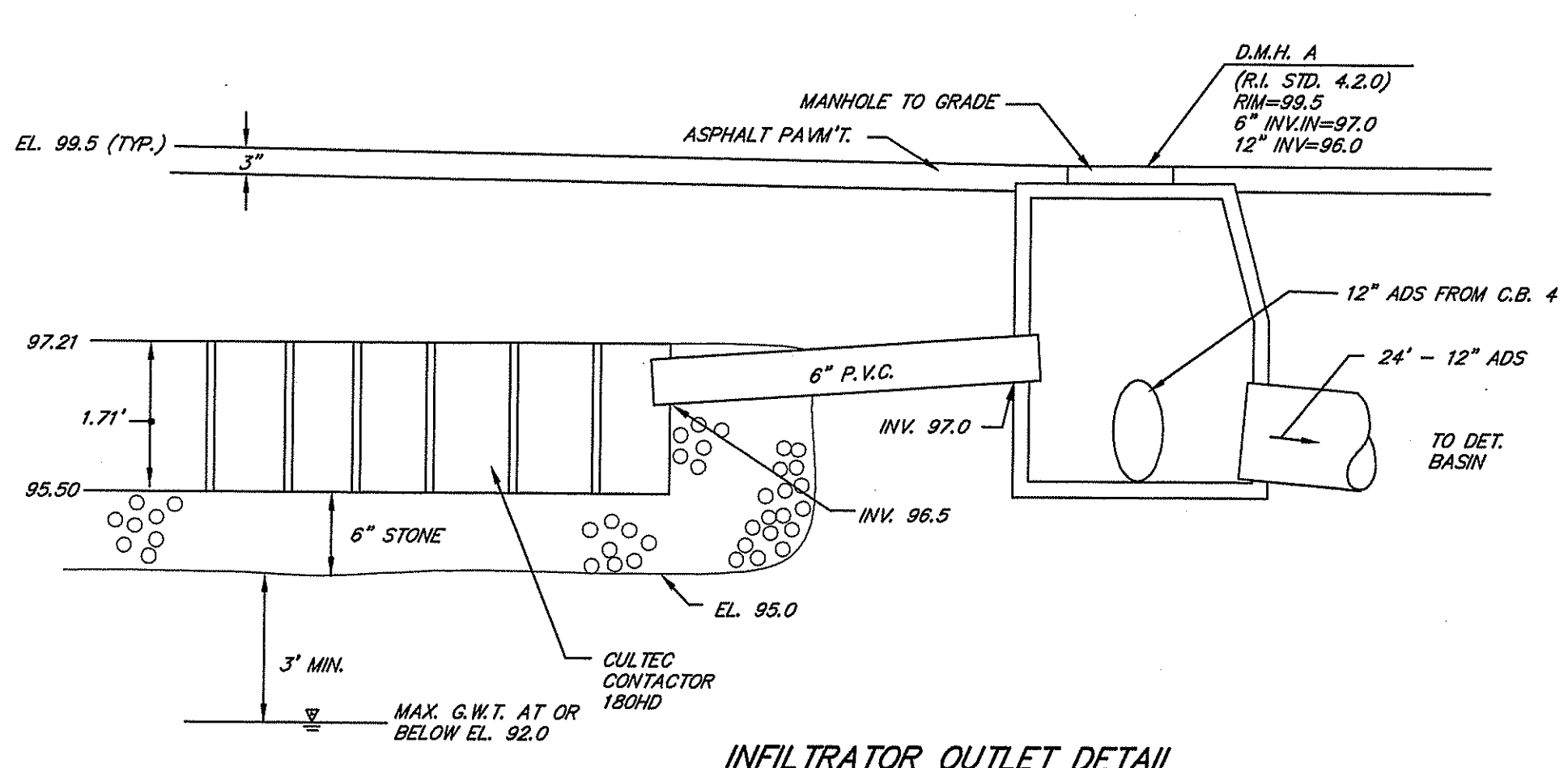
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV 18 2005 FILE # 05-0272
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
ALL FIELD PLANS MUST BE AT CONSTRUCTION SITE



BRIDGE SECTION
NOT TO SCALE



BRIDGE PROFILE
NOT TO SCALE



INFILTRATOR OUTLET DETAIL
NOT TO SCALE

SEWER NOTES

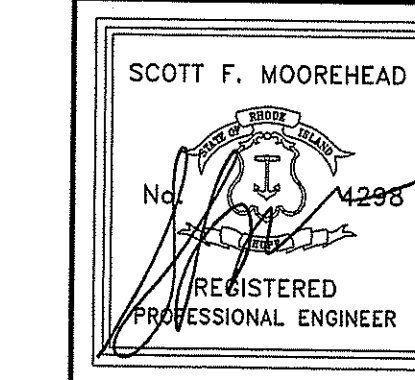
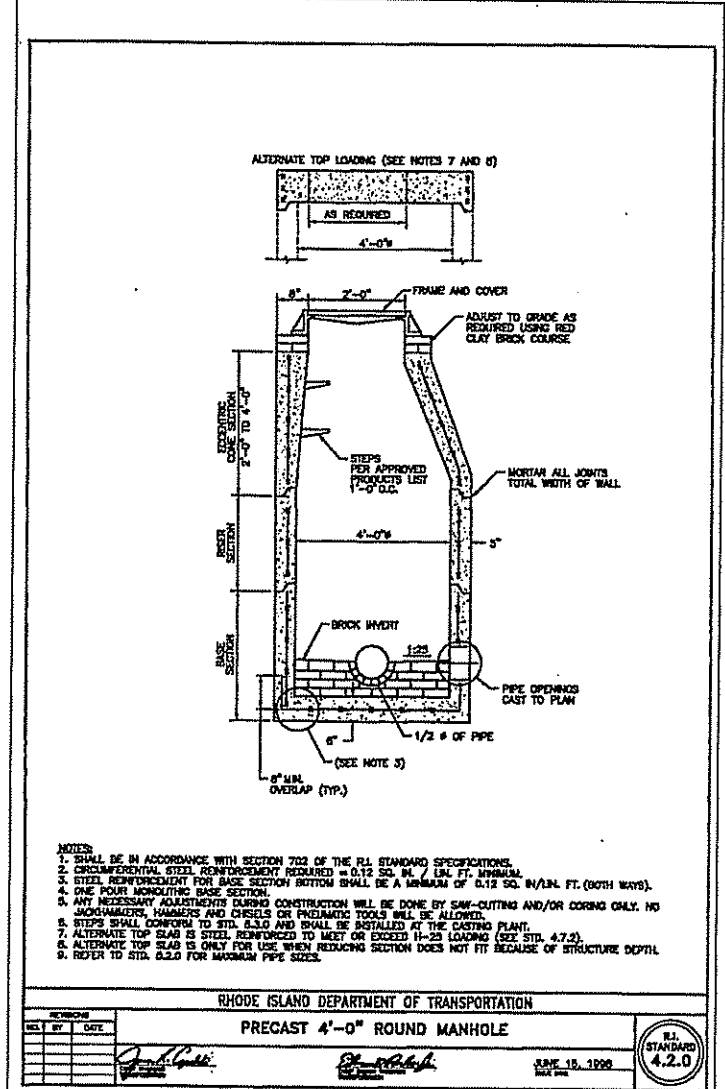
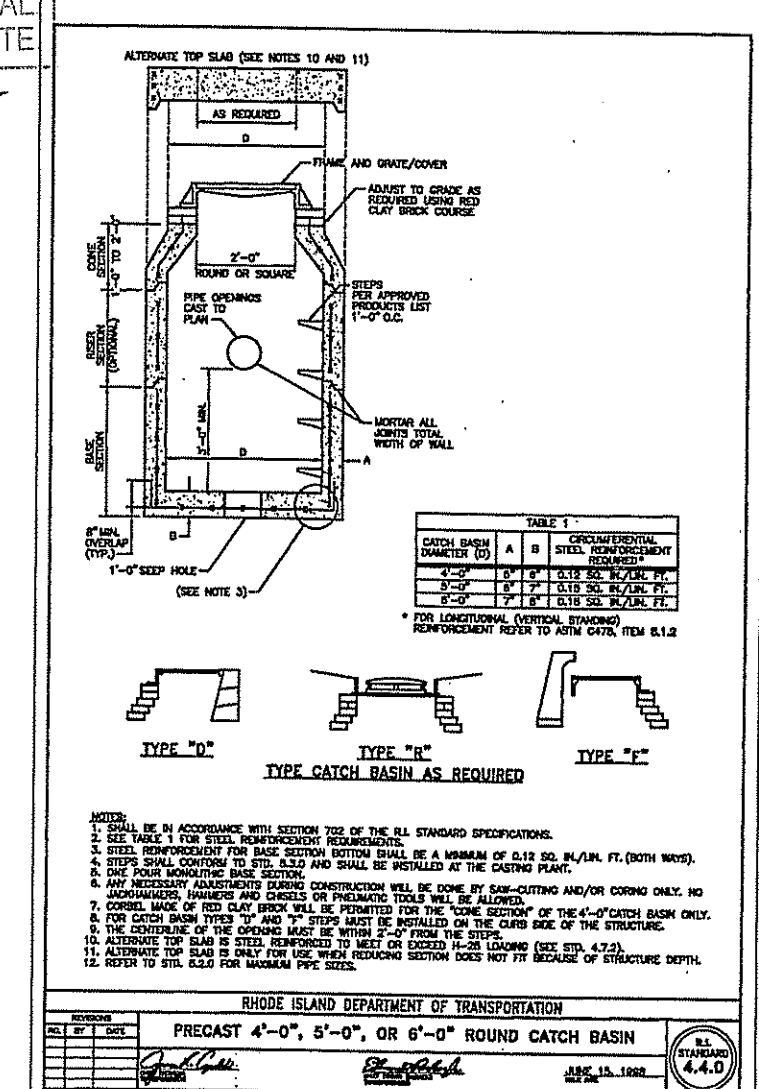
- INSTALLATION MUST CONFORM TO ALL APPLICABLE CODES (BUILDING, ELECTRIC, PLUMBING, ETC.).
- DISCHARGE LINE TO HAVE 4"(MIN.) COVER OR PROTECTED FROM FREEZING WITH INSULATION.
- DISCHARGE PIPING SHALL BE 2" SDR-21 P.V.C. OR AS ALLOWED BY THE SEWER AUTHORITY AND BUILDING CODE.
- GRINDER PUMP SHALL BE ENVIRONMENT ONE MODEL FARRELL 214 SERIES 4 (2 REQ'D.), NO SUBSTITUTIONS ALLOWED.
- SEE MANUFACTURER SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS.
- ELECTRICAL LEADS AND ALARM WIRING SHALL BE AS REQUIRED BY BUILDING AND ELECTRIC CODES.

UTILITY NOTES

- WATER SERVICES PIPES SHALL BE 6" D.I. PIPE.
- ALL WATER RELATED CONSTRUCTION SHALL CONFORM TO THE POLICIES AND PRACTICES OF THE KENT COUNTY WATER AUTHORITY.
- ELECTRIC AND TELEPHONE SERVICES SHALL BE OVERHEAD.
- UTILITY SERVICE INSTALLATIONS SHALL BE APPROVED AND INSPECTED BY THE APPROPRIATE UTILITY COMPANY.
- LIGHTING SHALL BE MOUNTED ON 20' (MAX.) POLES AND SHALL BY DIRECTED INTERNALLY TOWARDS PARKING AREAS. LIGHT STANDARDS, LUMINAIRES, WIRING & LOCATION SHALL BE DESIGNED BY A LICENSED ELECTRICAL ENGINEER.
- A BACKFLOW PREVENTOR SHALL BE PROVIDED TO SEPARATE THE FIRE SERVICE FROM THE DOMESTIC IN THE PROPOSED BUILDING. A DETAIL OF THE BACKFLOW PREVENTOR SHALL BE PROVIDED TO K.C.W.A. PRIOR TO INSTALLATION AND CONNECTION OF THE SERVICE.
- THE WATER LINE SHALL BE INSTALLED A MINIMUM OF 18" ABOVE THE SEWER LINE AND A MINIMUM 10' HORIZONTAL SEPARATION SHALL BE MAINTAINED.

DRAINAGE NOTES

- CATCH BASINS SHALL BE 4' DIA. PRECAST CONCRETE WITH 3' SUMP, R.I. STD. 4.4.0 TYPE 'F' WITH APRON STONE R.I. STD. 7.1.8.
- CATCH BASIN FRAMES AND GRATES SHALL BE R.I. STD. 6.3.2.
- DRAIN MANHOLE SHALL BE 4' DIAMETER PRECAST CONCRETE, R.I. STD. 4.2.0 WITH HEAVY DUTY CAST IRON GRATE, R.I. STD. 6.2.1.
- FILTER FABRIC LINER SHALL BE TERRATEX NO. 4 OR AMOCO 4545 OR EQUAL.
- ALL DRAINAGE OUTLETS SHALL HAVE A RIP RAP APRON PER RIP RAP SWALE DETAIL ON SHEET 3.
- ALL DRAINAGE PIPING OF 12" DIA. OR LARGER SHALL BE CORRUGATED POLYETHYLENE PIPE (ADS SERIES N12).
- ALL DRAINAGE PIPING LESS THAN 12" DIA. SHALL BE SCH. 40 PVC PIPE.
- ALL ROOF DOWNSPOUTS SHALL BE CONNECTED TO THE INFILTRATOR SYSTEM.
- THE INFILTRATOR SYSTEM SHALL CONSIST OF 29 CULTEC RECHARGER 180HD SERIES.
- STONE AROUND CULTEC UNITS SHALL BE 1 1/2" TO 3" WASHED, CRUSHED STONE, 12" ALL SIDES AND 6" BELOW.



DATE	REVISION
9-11-97	INFILTRATOR DETAIL
12-15-97	WATER LINE NOTES
8-3-98	WATER METER CHAMBER
9-17-98	WATER METER CHAMBER
4-05	UPDATE FOR FWV APPL.

PROPOSED OFFICE BUILDING
ASSESSOR'S PLAT 11G LOT 611
SOUTH COUNTY TRAIL
EAST GREENWICH, R. I.
PREPARED FOR:
MARK SHOVLIN
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