

Preliminary Determination Submission Middle Road Office Park

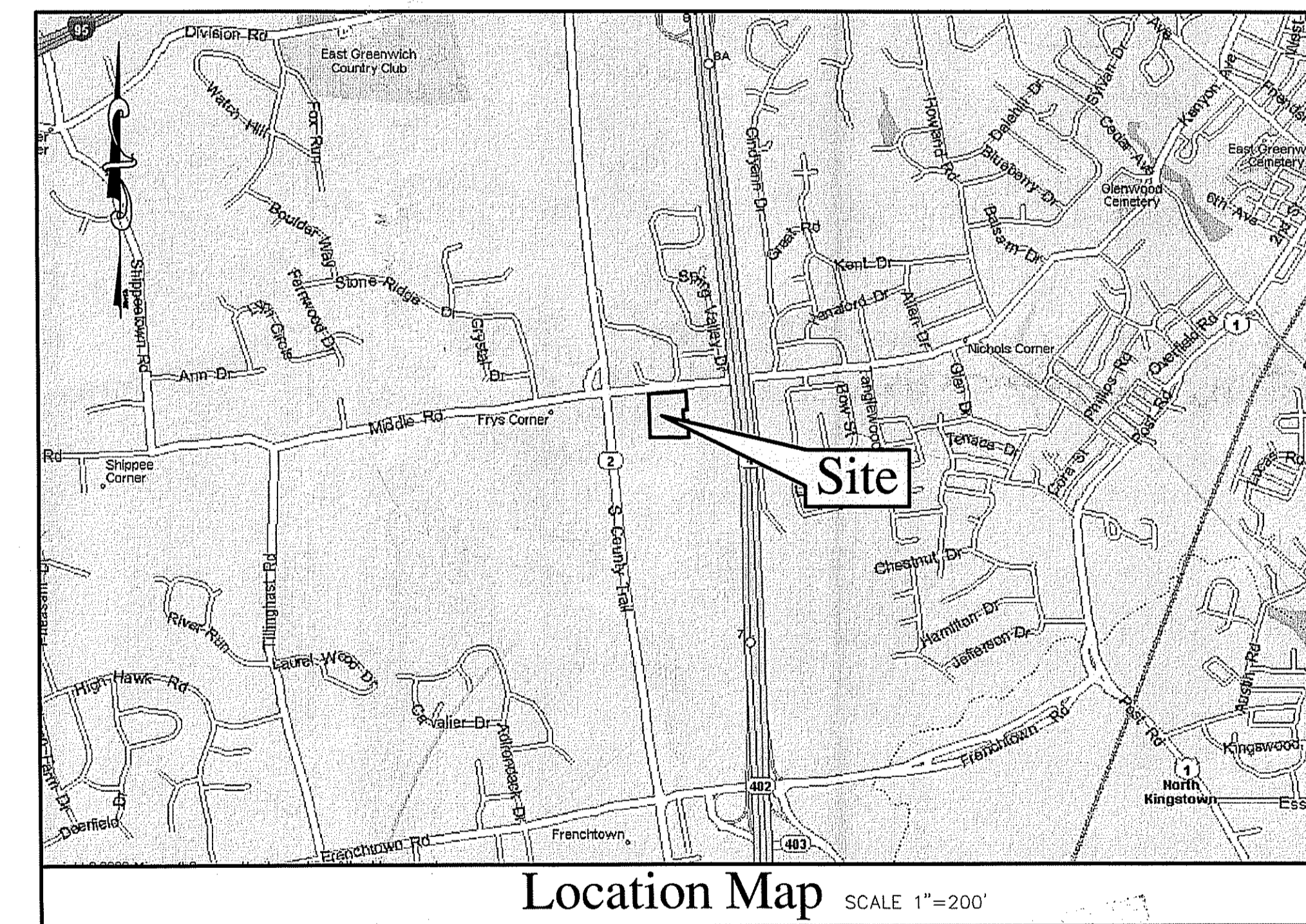
Located on Middle Road & Cherry Lane
East Greenwich, Rhode Island

Assessor's Plat 11H Lot 499

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 25 2008 FILE # 07-0261
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Charles H. Haber

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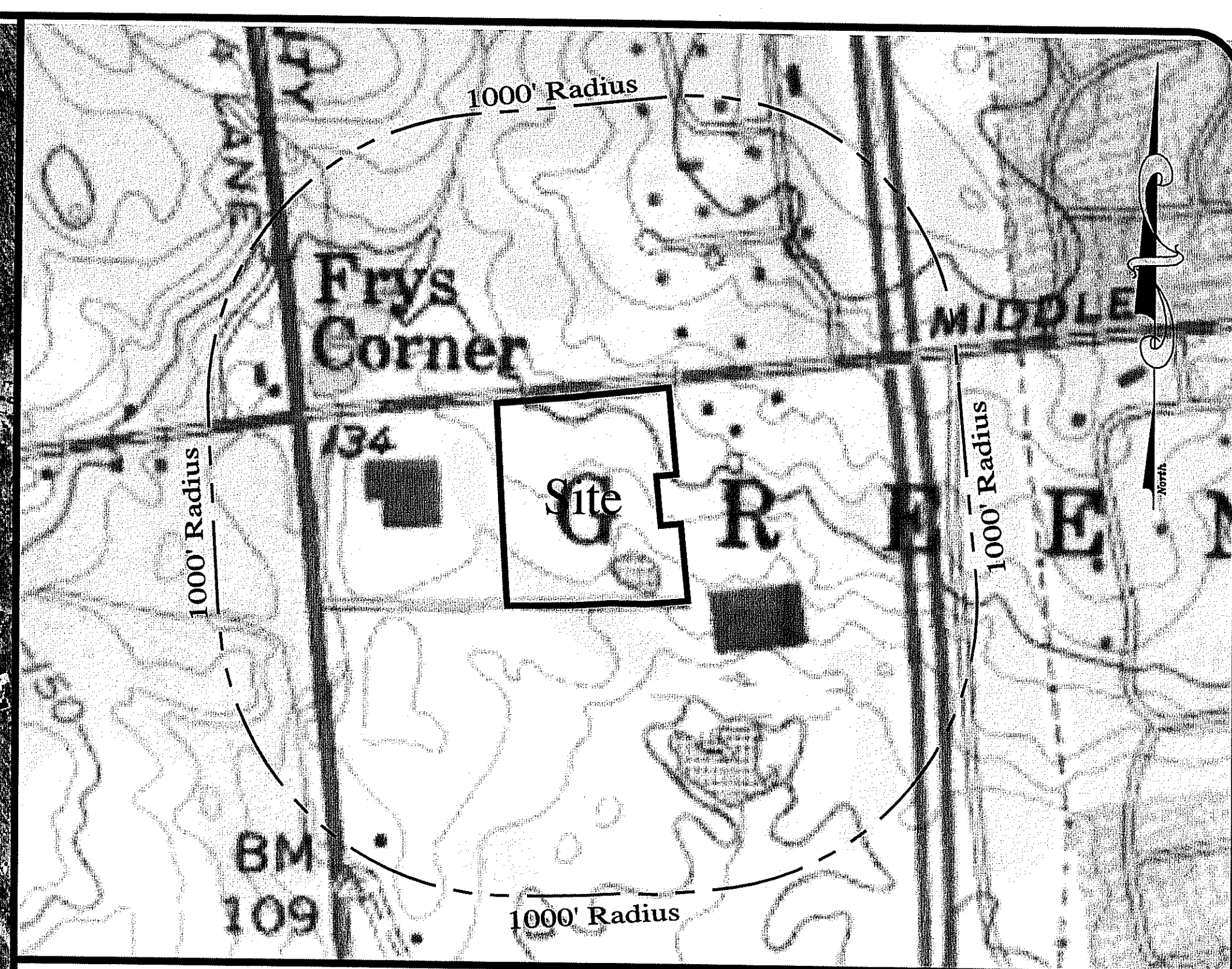


JUN 23 2008

NOTE:
THIS REGULATORY SUBMISSION SET SHALL NOT BE
USED FOR CONSTRUCTION PURPOSES UNLESS
STAMPED ISSUED FOR CONSTRUCTION AND
SIGNED AND DATED BY A DIPRETE ENGINEERING
REPRESENTATIVE

	COVER SHEET	
	Middle Road Office Park ASSESSOR'S PLAT 11H LOT 499 EAST GREENWICH, RHODE ISLAND	
PREPARED BY DiPrete Engineering Associates, Inc. ENGINEERING, SURVEYING AND PLANNING CONSULTANTS TWO STAFFORD COURT CRANSTON, R.I. 02920 (401) 943-1000 FAX: (401) 464-6006		
PREPARED FOR Middle Road Enterprises, LLC 6899 POST ROAD NORTH KINGSTOWN, R.I. 02852		
MAY 2007 DWN. BY: S.A.B.		SHEET 1 OF 12

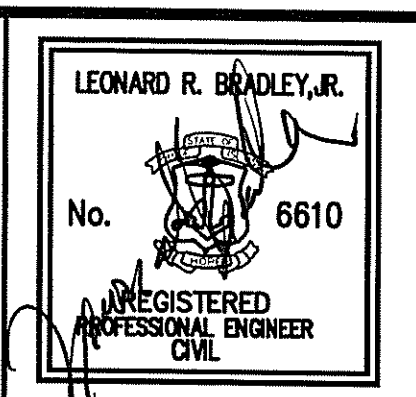
NO.	DATE	DESCRIPTION	BY
1	6-18-08	RIDEM PD RESUBMISSION	B.D.C.
2	5-28-08	RIDEM PD RESUBMISSION	B.D.C.
3	5-12-07	RIDEM PD SUBMISSION	S.A.B.



USGS Map SCALE 1"=400'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WASTE RESOURCES
 FRESH WATER WASTE PREVENTION
 APPROVED FOR CONSTRUCTION
 AS SPECIFIED BY THE LETTER OF APPROVAL
 DATED JUL 23 2008 FILE # 07-0261
 NO CHANGES ALLOWED WITHOUT THE WRITTEN
 APPROVAL OF THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Charles H. Hester

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 JUN 23 2008



AERIAL 1/2 MILE RADIUS
Middle Road Office Park
 ASSESSOR'S PLAT 11H LOT 499
 EAST GREENWICH, RHODE ISLAND

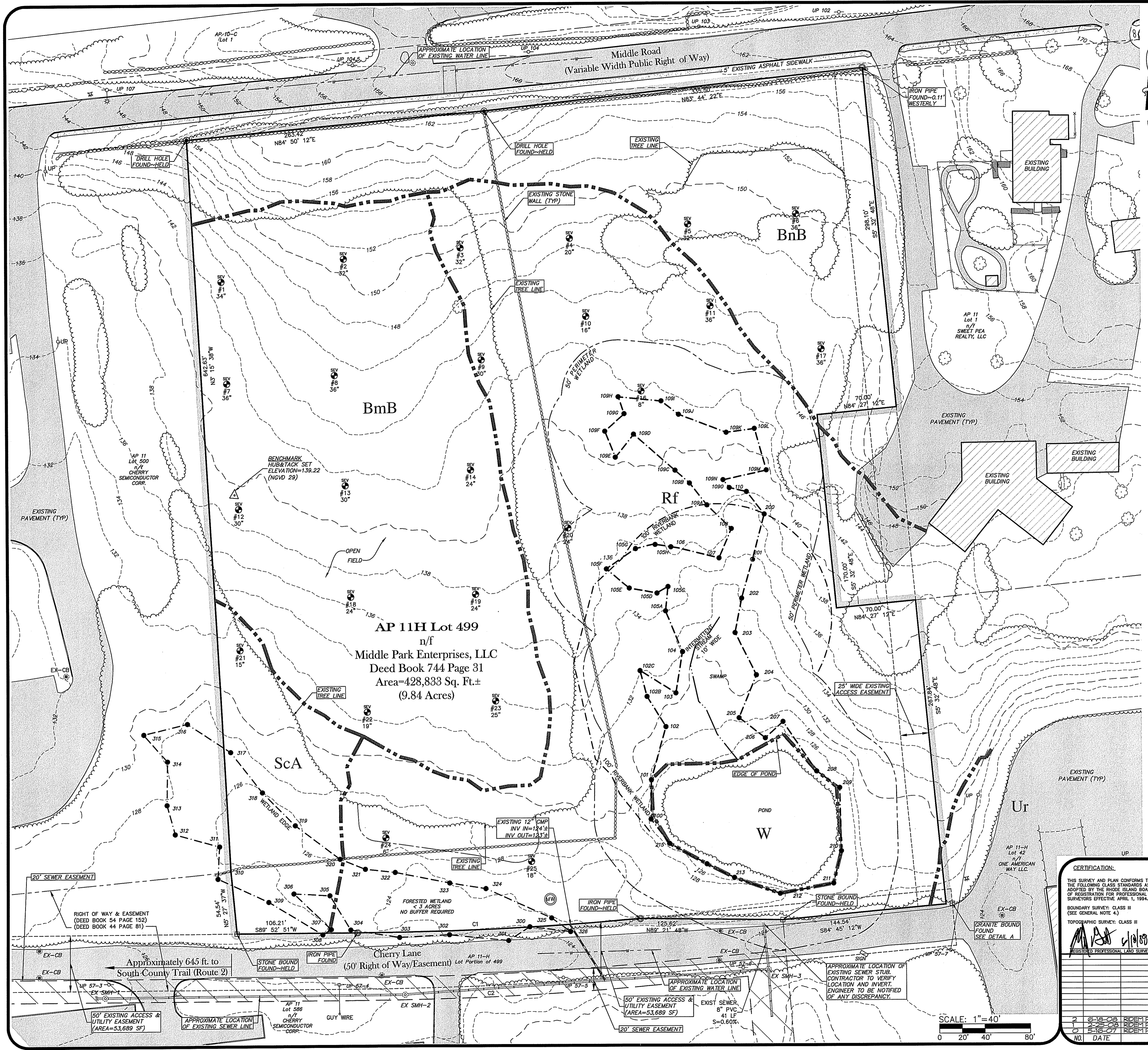
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 CRANSTON, R.I. 02920
 (401) 943-1000 FAX: (401) 464-6006

PREPARED FOR
Middle Road Enterprises, LLC
 6899 POST ROAD
 NORTH KINGSTOWN, R.I. 02852

MAY, 2007
 DWN. BY: S.A.B. SHEET 2 OF 12

Photo obtained from the RIGIS Spring 2002 Digital
 Orthophotography Southwestern Urban Areas Of
 Northern Rhode Island. SCALE: 1"=300'
 0 150' 300' 600'

NO.	DATE	DESCRIPTION	BY
2	6-18-08	RIDEIT PD RESUBMISSION	B.D.C.
1	5-28-08	RIDEIT PD RESUBMISSION	B.D.C.
0	5-18-07	RIDEIT PD SUBMISSION	S.A.B.



- ### GENERAL NOTES
- THE SITE IS LOCATED ON TOWN OF EAST GREENWICH ASSESSOR'S PLAT 11H LOT 499 AND IS APPROXIMATELY 9.84 ± ACRES.
 - CURRENT OWNER OF RECORD AND APPLICANT IS NOW OR FORMERLY: MIDDLE PARK ENTERPRISES, LLC, 6899 POST ROAD, NORTH KINGSTOWN, RI 02852
 - THE SITE IS ZONED INDUSTRIAL M/LIO.
 - THE BOUNDARY LINE AS SHOWN DEPICTS A CLASS I SURVEY AS PERFORMED BY DIPRETE ENGINEERING ASSOCIATES, INC. THE PLAN ITSELF CONFORMS TO ONLY A CLASS III STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. THIS PLAN IS NOT TO BE CONSTRUED AS A CLASS I BOUNDARY PLAN AND IS NOT SUITABLE FOR RECORDING AS A CLASS I SURVEY.
 - TOPOGRAPHY AND SITE FEATURES BY AERIAL MAPPING FROM AEROTECH, 365 SMITH STREET, SUITE 3 PROVIDENCE, RI 02908-5724 AND BASED ON BLACK AND WHITE PHOTOGRAPHY FROM 2/9/98. HORIZONTAL DATUM IS RI STATE PLANE COORDINATE-NAD 83 AND VERTICAL DATUM IS NVD 29 (MSL).
 - SOIL MAPPING OBTAINED FROM "SOIL SURVEY OF RHODE ISLAND", PREPARED BY U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE, DATED 1981.
 - WETLAND FLAGGING WAS DELINEATED BY APPLIED BIO-SYSTEMS IN FEBRUARY, 2004 AND LOCATED BY STANLEY ENGINEERING. ADDITIONAL FLAGGING (FLAGS 109A-109Q, 105A-105H, AND 102B-102C) WAS DELINEATED BY DIPRETE ENGINEERING IN MAY, 2008. AT THE TIME OF SUBMISSIONS, DIPRETE ENGINEERING ASSOCIATES WILL REPLACE ANY MISSING FLAGS THAT ARE SHOWN ON THE STANLEY ENGINEERING PLANS.
 - THERE IS NO 100 YEAR FLOOD PLAIN LOCATED ON THE SITE ACCORDING TO F.E.M.A. FLOOD INSURANCE RATE MAP FOR THE TOWN OF EAST GREENWICH, RHODE ISLAND COMMUNITY PANEL 445397 0002 B DATED FEBRUARY 16, 1983. THE SITE IS LOCATED WITHIN THE FOLLOWING FLOOD INSURANCE ZONE: ZONE C - AREAS OF MINIMAL FLOODING.
 - UTILITY INFORMATION SHOWN IS BASED ON BOTH FIELD SURVEY AND PLANS OF RECORD. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM AFOREMENTIONED RECORD PLANS AND ARE APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE PROPER UTILITY ENGINEERING DEPARTMENTS SHALL BE CONTACTED AND THE ACTUAL LOCATION OF SUBSURFACE STRUCTURES SHALL BE DETERMINED IN THE FIELD. CALL TOLL FREE THE DIG SAFE CENTER AT 1-888-344-7233, 72 HOURS PRIOR TO EXCAVATION. ANY DAMAGE TO UTILITIES WHICH ARE SHOWN ON THE PLANS OR DETAILED BY DIG SAFE SHALL BE THE SITE CONTRACTORS RESPONSIBILITY.

SOIL INFORMATION

SOIL TYPE	DESCRIPTION
BmB	BRIDGEHAMPTON SILT LOAM, TILL SUBSTRATUM, 3 TO 8 PERCENT SLOPES.
BnB	BRIDGEHAMPTON-CHARLTON COMPLEX, VERY STONY, 0 TO 8 PERCENT SLOPES
Rf	RIDGEBURY, WHITMAN, AND LEICESTER, EXTREMELY STONY FINE SANDY LOAMS
ScA	SCIO SILT LOAM, 0 TO 3 PERCENT SLOPES
Ur	URBAN LAND
W	WATER

LEGEND

PROPERTY LINE	---	EXISTING WATER LINE	---
10 FOOT CONTOUR	- - -	EXISTING BUILDING	▨
2 FOOT CONTOUR	- - -	WETLAND FLAG	●
SPOT GRADE	x	ASSESSORS PLAT	AP
SOIL BOUNDARY LINE	---	NOW OR FORMERLY	n/f
SOIL TYPES	HkC	BOUND	□
EXISTING TREELINE	~ ~ ~	IRON PIPE	○
EXISTING TREES	⊗	DRILL HOLE	⊙
EXISTING FENCE	x-x-x	TEST HOLES	⊙
EXISTING STONE WALL	---	50' PERIMETER WETLAND	---
EXISTING EDGE OF PAVEMENT	---	100' RIVERBANK WETLAND	---
EXISTING UTILITY POLE	○	EXISTING 12" CMP	---
EXISTING CATCH BASIN	⊙	EXISTING MONITORING WELL	⊙
EXISTING MANHOLE	⊙	EX-CB	⊙
EXISTING SEWER LINE	---	EX-SMH	⊙
		EXISTING CATCH BASIN	⊙
		EXISTING SEWER MANHOLE	⊙
		FIRE HYDRANT	⊙

Curve Table

CURVE	LENGTH	RADIUS	DELTA	TANGENT	CHORD	DIRECTION
C1	249.85'	2804.93'	5°06'13"	125.01'	249.77'	N87°19'44"E
C2	254.30'	2854.93'	5°06'53"	127.24'	254.02'	N87°19'44"E

OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED **JUL 25 2008** FILE # **07-0261**
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APPROVED PLAN MUST BE AT CONSTRUCTION SITE
Charles A. [Signature]
JUN 23 2008

Detail "A"
NOT TO SCALE

NOTE:
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CERTIFICATION:
THIS SURVEY AND PLAN CONFORMS TO THE FOLLOWING CLASS STANDARDS AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS EFFECTIVE APRIL 1, 1994.
BOUNDARY SURVEY: CLASS III
TOPOGRAPHIC SURVEY: CLASS III
[Signature]
REGISTERED PROFESSIONAL LAND SURVEYOR

EXISTING CONDITIONS
Middle Road Office Park
ASSESSOR'S PLAT 11H LOT 499
EAST GREENWICH, RHODE ISLAND

PREPARED BY
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TWO STAFFORD COURT
CRANSTON, R.I. 02920
(401) 943-1000 FAX: (401) 464-6006

PREPARED FOR
Middle Road Enterprises, LLC
6899 POST ROAD
NORTH KINGSTOWN, R.I. 02852

MAY, 2007
DWN. BY: S.A.B.

NO. DATE DESCRIPTION BY

2	6-18-08	RIDEM PD RESUBMISSION	B.D.C.
3	7-25-08	RIDEM PD RESUBMISSION	B.D.C.
4	8-16-07	RIDEM PD RESUBMISSION	S.A.B.

SHEET **3** OF 12

DIMENSIONAL REGULATIONS

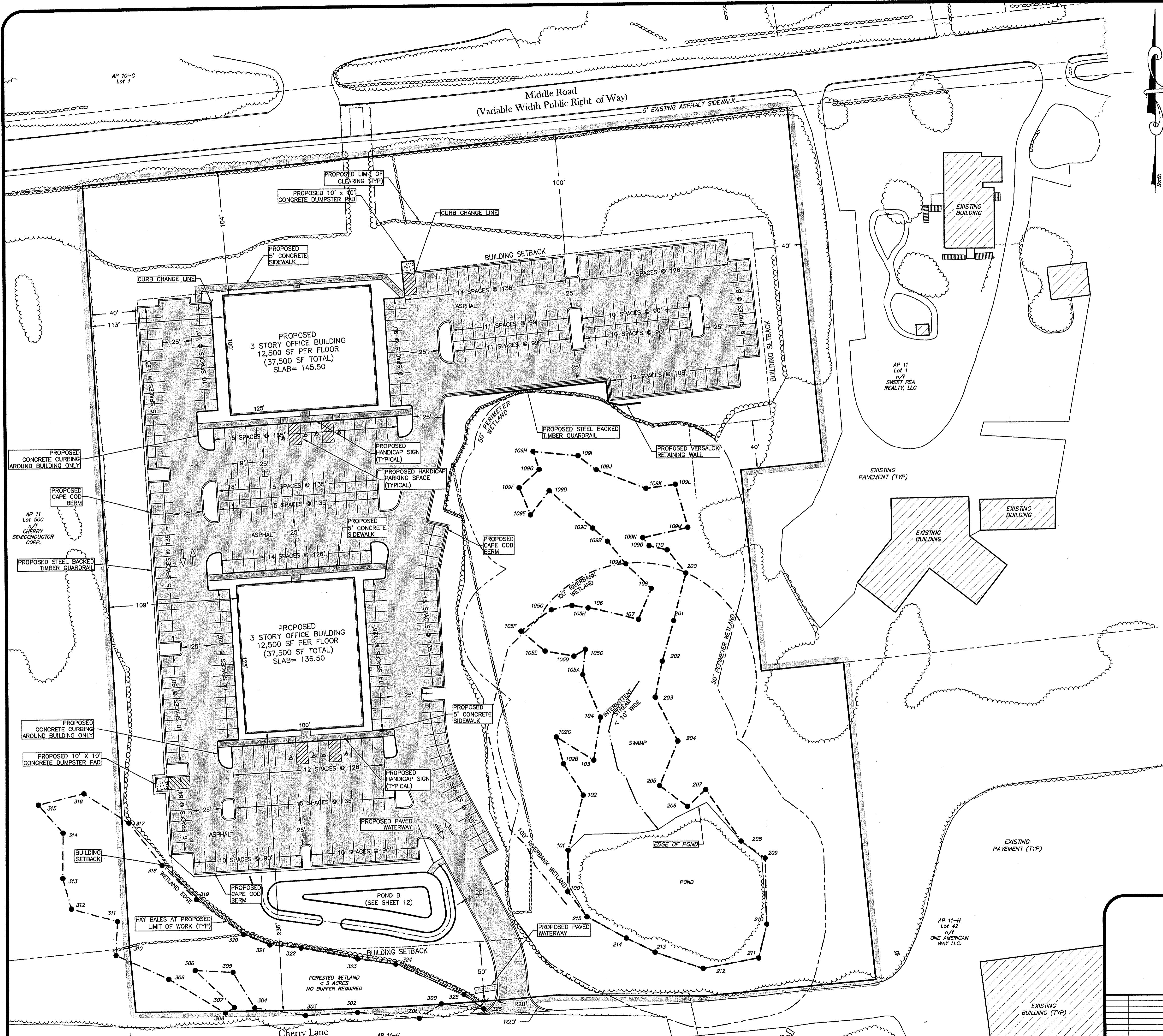
ZONING	M/110
MINIMUM LOT AREA	87,120 S.F.
MINIMUM FRONTAGE	150 FT.
MINIMUM FRONT YARD SETBACK	100 FT.
MINIMUM SIDE YARD SETBACK	40 FT.
MINIMUM REAR YARD SETBACK	50 FT.

PARKING REQUIREMENTS

MINIMUM PARKING REQUIRED PER TOWN OF EAST GREENWICH:
 1 SPACES PER 200 S.F. NET FLOOR AREA
 (12,500 S.F. + 12,500) X 3 FLOORS = 75,000 S.F. GROSS FLOOR AREA
 75,000 S.F. * 85% = 63,750 S.F. NET FLOOR AREA
 63,750 S.F. / 200 S.F. = 319 PARKING SPACES REQUIRED

TOTAL REQUIRED PARKING SPACES: 319 SPACES
 TOTAL PROVIDED PARKING SPACES: 321 SPACES

TOTAL REQUIRED HANDICAP PARKING SPACES:
 8 SPACES (2 SPACES MUST BE VAN ACCESSIBLE)
 TOTAL PROVIDED HANDICAP PARKING SPACES:
 8 SPACES (ALL SPACES ARE TO BE VAN ACCESSIBLE)



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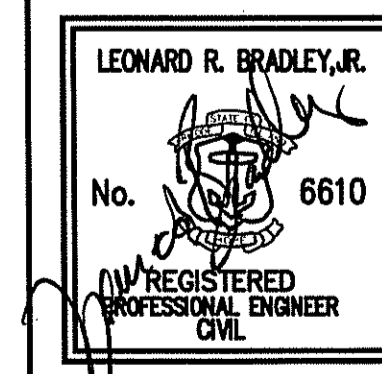
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JUN 23 2008

Approximately 645 ft. to
 South County Trail (Route 2)

Cherry Lane
 (50' Right of Way/Easement) Lot Portion of 499

SCALE: 1"=40'
 0 20' 40' 80'



PARKING PLAN
Middle Road Office Park
 ASSESSOR'S PLAT 11H LOT 499
 EAST GREENWICH, RHODE ISLAND

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 TWO STAFFORD COURT
 CRANSTON, R.I. 02920
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PREPARED FOR
Middle Road Enterprises, LLC
 6899 POST ROAD
 NORTH KINGSTOWN, R.I. 02852

NO.	DATE	DESCRIPTION	BY
1	6-18-08	ISSUED FOR SUBMISSION	S.D.C.
2	6-25-08	REVISION SUBMISSION	S.D.C.
3	5-12-07	REVISION SUBMISSION	S.A.B.

MAY 2007
 DWN. BY: S.A.B.

SHEET 4 OF 12



GENERAL NOTES

1. THE SITE IS TO BE SERVICED BY PUBLIC SEWER AND PUBLIC WATER.
2. THE DRAINAGE SYSTEM IS DESIGNED TO MEET THE TOWN OF EAST GREENWICH SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WITH THE USE OF CATCH BASINS, CULVERTS AND DRAINAGE BASINS. THE STORMWATER MANAGEMENT SYSTEM WILL MEET THE RIDEM BEST MANAGEMENT PRACTICES.
3. THE SITE IS PROPOSED TO BE BUILT IN 1 PHASE.

CONSTRUCTION NOTES

1. THE CONTRACTOR IS TO NOTIFY DIG SAFE PRIOR TO THE START OF CONSTRUCTION.
2. NO STOCKPIILING OF MATERIAL IS TO BE ALLOWED WITHIN A PUBLIC R.O.W. NO OPEN TRENCHES ARE TO BE LEFT OVERNIGHT.
3. CONTRACTOR TO OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.
4. THE CONTRACTOR IS TO NOTIFY THE DIRECTOR OF PUBLIC WORKS, RHODE ISLAND DEPARTMENT OF TRANSPORTATION, THE TOWN ENGINEER, AND R.I. DEPT. OF ENVIRONMENTAL MANAGEMENT AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
5. ALL WORK PERFORMED HEREIN SHALL BE GOVERNED BY THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND TOWN OF EAST GREENWICH STANDARD SPECIFICATIONS AND DETAILS.
6. ALL EXCESS SOIL, STUMPS, TREES, ROCKS, BOULDERS AND OTHER REFUSE, SHALL BE DISCARDED OFF SITE IN AN APPROVED MANNER AT AN APPROVED LOCATION.
7. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINISH GRADING AND DRAINAGE AROUND THE BUILDING TO ENSURE SURFACE WATER AND/OR GROUND WATER ARE DIRECTED AWAY FROM THE STRUCTURE. THIS PLAN SHOWS GENERAL GRADING ONLY AND ADDITIONAL DETAIL IS LIKELY TO BE REQUIRED AROUND THE BUILDING.
8. ALL LOAM IN DISTURBED AREAS TO BE STOCKPILED FOR FUTURE USE.
9. ALL PROPOSED DRAINAGE PIPE TO BE ADS UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR UTILITY CONNECTIONS.
11. UNDERGROUND UTILITIES ARE PROPOSED ONSITE.
12. ALL STEEP SLOPES ARE SHOWN SCHEMATICALLY ONLY AND DIPRETE ENGINEERING ASSOCIATES, INC. DOES NOT CERTIFY ITS ACCURACY. THE CONTRACTOR IS TO VERIFY THE UTILITY LOCATIONS PRIOR TO THE START OF CONSTRUCTION.
13. ALL CUT AND FILL AREAS ARE TO BE DONE UNDER THE DIRECTION OF A GEOTECHNICAL ENGINEER WITH TESTING AND CERTIFICATION TO BE PROVIDED TO THE OWNER AT THE COMPLETION OF THE PROJECT. DIPRETE ENGINEERING ASSOCIATES, INC. HAS NOT PROVIDED THE FILL SPECIFICATION, GEOTECHNICAL ENGINEERING, STRUCTURAL ENGINEERING SERVICES, OR SUPERVISION AS PART OF THESE DRAWINGS.
14. ALL EXISTING UTILITIES SHOWN ARE SCHEMATIC IN NATURE AND DIPRETE ENGINEERING ASSOCIATES, INC. DOES NOT CERTIFY ITS ACCURACY. THE CONTRACTOR IS TO VERIFY THE UTILITY LOCATIONS PRIOR TO THE START OF CONSTRUCTION.

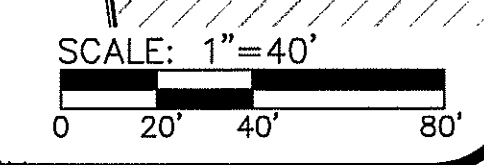
ADA NOTES

1. ALL IMPROVEMENTS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) BY THE DEPARTMENT OF JUSTICE.
2. MAXIMUM RUNNING SLOPE ALONG ALL ACCESSIBLE PATHS OF TRAVEL SHALL BE 0.045'/' AND MAXIMUM CROSS SLOPE ALONG ALL ACCESSIBLE PATHS OF TRAVEL SHALL BE 0.015'/'.
3. MAXIMUM SLOPE IN ANY DIRECTION FOR ALL ACCESSIBLE PARKING SPACES AND LOADING AREAS SHALL BE 0.015'/'.
4. AT A MINIMUM, A 5' X 5' LANDING WITH A MAXIMUM SLOPE OF 0.015'/' IN ANY DIRECTION SHALL BE PROVIDED IN FRONT OF ALL PUBLICLY ACCESSIBLE BUILDING ENTRANCES/EGRESSSES.
5. SIDEWALK CURB RAMPS SHALL COMPLY WITH DIPRETE ENGINEERING DETAILS MEETING OR EXCEEDING RIDOT STANDARDS 43.3.0, 43.3.1 & 43.4.1 AS SHOWN ON THE DETAIL SHEET.
6. PLEASE NOTE THAT THE GRADING AND PLAN VIEWS AS WELL AS THE STANDARD DETAILS MAY NOT SHOW THE DETAIL NECESSARY TO CONSTRUCT WALKWAYS AND RAMPS TO ADA STANDARDS. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE LEVEL OF CARE NECESSARY TO BE CERTAIN THAT THE CONSTRUCTED PRODUCT MEETS ADA STANDARDS. IN THE EVENT OF ANY CONFLICTS THE CONTRACTOR SHALL NOTIFY THE DESIGNER BEFORE CONSTRUCTION FOR ADVICE IN FINDING A RESOLUTION.

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 OFFICE OF WATER RESOURCES
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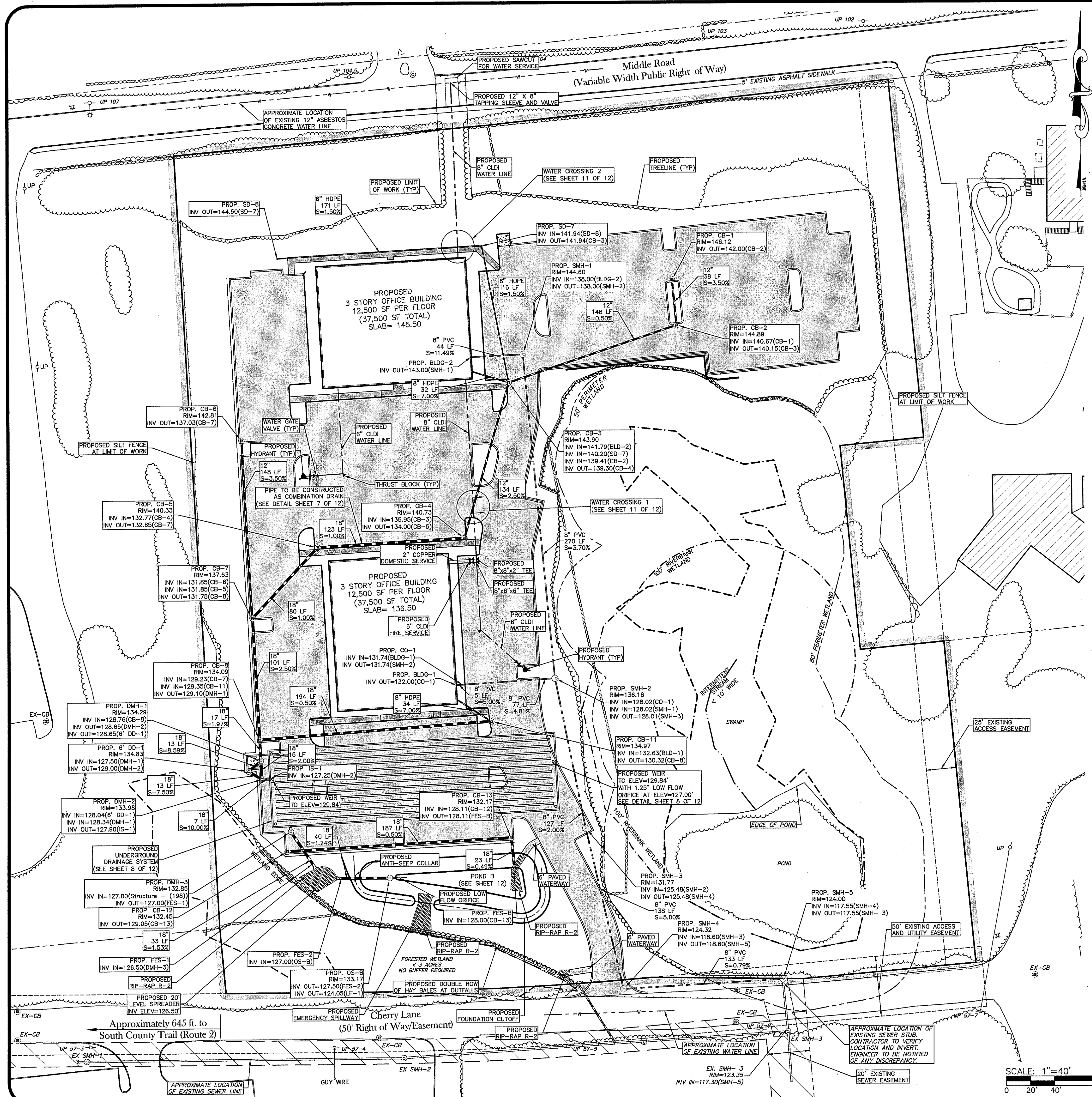
Approximately 645 ft to South County Trail (Route 2)



LEONARD R. BRADLEY, P.E.
 No. 6610
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

GRADING PLAN
Middle Road Office Park
 ASSESSOR'S PLAT 11H LOT 499
 EAST GREENWICH, RHODE ISLAND
 PREPARED BY
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 MAY 2007
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 SHEET 5 OF 12

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2	6-18-08	RIDEM PD RESUBMISSION	B.D.C.
1	2-22-08	RIDEM PD RESUBMISSION	B.D.C.
1	5-16-07	RIDEM PD RESUBMISSION	S.A.B.



KCWA WATER INSTALLATION NOTES

- CONTRACTOR TO VERIFY THE SIZE AND LOCATION OF THE EXISTING WATER MAIN. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.
- INSTALLATION OF WATER MAIN AND SERVICE SHALL CONFORM TO THE "RULES AND REGULATIONS OF THE KENT COUNTY WATER AUTHORITY" JANUARY 21, 2004, OR LATEST EDITION, AND IN ACCORDANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION INSTALLATION MANUAL AND ANSI/AWWA C600.
- DISTRIBUTION PIPING SHALL BE CL 52 DUCTILE IRON, DOUBLE CEMENT LINED, WITH PUSH ON JOINTS. PIPE SHALL MEET ANSI/AWWA C111 A21.51. JOINTS SHALL MEET ANSI/AWWA C11/A21.11.
- FITTINGS SHALL BE DUCTILE IRON MECHANICAL JOINT CL350 CEMENT MORTAR LINED AND MEET ANSI/AWWA/C153/A21.53. MECHANICAL JOINTS SHALL MEET ANSI/AWWA/C111/A21.11 AMERICAN MANUFACTURER ONLY.
- VALVES SHALL BE MECHANICAL JOINT, DOUBLE DISC PARALLEL SEAT OR RESILIENT SEAT GATE STYLES AS FOLLOWS
A. MUELLER CORPORATION DOUBLE DISC PARALLEL SEAT.
B. AMERICAN DARLING VALVE RESILIENT SEAT MODEL CRS-80.
- PRESSURE TESTING OF THE WATER SYSTEM SHALL BE 1.5 TIMES THE MAXIMUM WORKING PRESSURE OR 150 PSI. NOTIFY KENT COUNTY WATER AUTHORITY 2 DAYS PRIOR TO TEST.
- NOTIFY THE KENT COUNTY AUTHORITY 5 DAYS PRIOR TO CONSTRUCTION COMMENCEMENT.
- CHLORINATION OF SYSTEM AND SAMPLING SHALL CONFORM TO SEC. 3.5 OF REQUIREMENTS FOR SERVICE AND MAIN INSTALLATION.
- NOTIFY ENGINEER PRIOR TO COVERING OF WATER MAIN TO SURVEY AS-BUILT LOCATION AND TO COMPLETE REQUIRED AS-BUILT PLAN. ENGINEER WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE CONTRACTOR.
- TEMPORARY FLUSHING CONNECTIONS AND BLOW-OFFS SHALL BE SIZED TO PROVIDE 2.5- FEET PER SECOND FLOW PER AWWA STANDARD 651.
- CONTRACTOR RESPONSIBLE TO COORDINATE WITH PLUMBING OFFICIAL FOR DISINFECTION OF SERVICE PIPE EXTENDING FROM CURB BOX TO HOME PER STATE PLUMBING CODE AND KENT COUNTY WATER AUTHORITY REGULATIONS. WATER SERVICE CANNOT BE ACTIVATED WITHOUT COPY OF LAB RESULTS AND PLUMBING INSPECTOR'S VERIFICATION.
- ALL INSTALLATION SHALL CONFORM TO RULES AND REGULATIONS OF THE KENT COUNTY WATER AUTHORITY—JANUARY 21, 2004.

GENERAL NOTES

- THE SITE CONTRACTOR IS TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
- UTILITY INFORMATION SHOWN IS BASED ON BOTH FIELD SURVEY AND PLANS OF RECORD. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM AFORESAID RECORD PLANS AND ARE APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE PROPER UTILITY ENGINEERING DEPARTMENTS SHALL BE CONTACTED AND THE ACTUAL LOCATION OF SUBSURFACE STRUCTURES SHALL BE DETERMINED IN THE FIELD. CALL TOLL FREE THE DIG SAFE CENTER AT 1-888-344-7233 72 HOURS PRIOR TO EXCAVATION. ANY DAMAGE TO UTILITIES WHICH ARE SHOWN ON THE PLANS OR DETAILED BY DIG SAFE SHALL BE THE SITE CONTRACTORS RESPONSIBILITY.
- THE CONTRACTOR SHALL COORDINATE WITH ALL OF THE APPROPRIATE UTILITY COMPANIES FOR AGREEMENTS TO SERVICE THE PROPOSED BUILDING. THIS SHALL BE DONE PRIOR TO CONSTRUCTION. NO REPRESENTATIONS ARE MADE BY DEB THAT UTILITY SERVICE IS AVAILABLE.
- CATCH BASINS CB-8 AND CB-13 HAVE OIL SEPARATORS.
- ALL CATCH BASINS TO HAVE 3' SUMPS EXCEPT FOR THOSE WITH OIL SEPARATORS. CATCH BASINS WITH OIL SEPARATORS TO HAVE SUMP ADEQUATE WITH OIL SEPARATOR DETAIL.
- ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES 2003 INCLUDING ALL REVISIONS.
- COORDINATES, IN U.S. SURVEY FEET, ARE APPROXIMATELY REFERENCED IN THE RHODE ISLAND STATE PLANE COORDINATE SYSTEM REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83), AS DETERMINED BY DEB'S SURVEY OPERATIONS.

ASBUILT NOTES

- ALL COMPONENTS OF THE DRAINAGE AND WATER SYSTEMS MUST BE ASBUILT PRIOR TO COVERING. ENGINEER TO BE NOTIFIED PRIOR TO COVERING TO SURVEY ASBUILT LOCATIONS. ENGINEER WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE SITE CONTRACTOR.

SEWER MAIN INSTALLATION NOTES

- CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING SEWER STUBS PRIOR TO CONSTRUCTION. DESIGN ENGINEER TO BE CONTACTED IMMEDIATELY IF LOCATION OR ELEVATION DIFFER SUBSTANTIALLY FROM INFORMATION SHOWN ON PLANS.
- NOTICE MUST BE GIVEN TO THE DIRECTOR OF PUBLIC WORKS 24 HOURS BEFORE ANY STREET OR PUBLIC WAY CAN BE OPENED FOR THE PURPOSE OF LAYING A PRIVATE DRAIN OR BEFORE ANY DRAIN PIPE CAN BE EXTENDED FROM WORK PREVIOUSLY DONE ANY ACCEPTED, OR NEW CONNECTIONS OF ANY KIND MADE.
- ONLY SUCH DRAIN LAYERS AS ARE DESIGNATED BY THE DIRECTOR OF PUBLIC WORKS SHALL BE ALLOWED TO MAKE CONNECTION WITH THE SEWERS OR LAY ANY DRAINS IN CONNECTION THEREWITH, ANY PERSON SO DESIGNATED SHALL GIVE PERSONAL ATTENTION TO ANY WORK DONE UNDER HIS PERMIT.
- THE TESTING OF SEWER LINES AND MANHOLES SHALL BE CONDUCTED IN THE PRESENCE OF THE EAST GREENWICH SEWER DEPARTMENT. THE EAST GREENWICH SEWER DEPARTMENT SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF ANY TESTING.
- TESTING OF EACH SECTION OF SEWER INSTALLED SHALL INCLUDE THE PORTIONS OF SERVICE CONNECTIONS THAT ARE TO BE INSTALLED IN THE PRESENCE OF THE EAST GREENWICH SEWER DEPARTMENT. THE SITE CONTRACTOR SHALL TEST EACH MANHOLE REACH AS SOON AS CONSTRUCTION OF SUCH REACH IS COMPLETE. THE SITE CONTRACTOR WILL BE REQUIRED TO PERFORM THE PIPE DEFLECTION TEST ON EACH SECTION OF PIPE INSTALLED, VACUUM TEST OF MANHOLES AND AN INFILTRATION TEST OR LOW PRESSURE TEST AS APPLICABLE.
- ALL REQUIREMENTS OF THE TOWN OF EAST GREENWICH SEWER ORDINANCE INCLUDING THE STANDARD SEWER REQUIREMENTS SET FORTH HEREIN SHALL BE ADHERED TO.
- AT THE COMPLETION OF THE PROJECT, A SET OF AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE TOWN OF EAST GREENWICH SEWER DEPARTMENT.

SEWER/WATER SEPERATION POLICY

- WATER MAINS SHALL BE LAID WITH A MINIMUM OF TEN-FOOT HORIZONTAL CLEARANCE FROM ANY EXISTING SEWER FACILITIES. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. WATER MAINS CROSSING UNDER SEWERS SHALL BE FORBIDDEN. WATER MAINS CROSSING OVER SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL SEPERATION OF EIGHTEEN-INCHES BETWEEN THE INVERT OF THE WATER MAIN AND THE CROWN OF THE SEWER. RE-ALIGNMENT OF AN EXISTING WATER MAIN OR RELOCATION OF THE SEWER MAY BE NECESSARY TO ACHIEVE THIS VERTICAL SEPERATION. THE GENERAL MANAGER/CHIEF ENGINEER MUST APPROVE ANY DEVIATION FROM THESE REQUIREMENTS. CONCRETE ENCASEMENT SHALL NOT BE ALLOWED IN THE DESIGN FOR SEWER AND WATER CROSSINGS.
- A MINIMUM OF TEN-FOOT HORIZONTAL AND EIGHTEEN-INCH VERTICAL SEPERATION SHALL BE MAINTAINED IN THE PLACEMENT OF WATER MAINS, SERVICES OR APPURTENANCES WITHIN THE VICINITY OF SEWER FACILITIES OR VICE VERSA. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10-FOOT HORIZONTAL SEPERATION OR IN THE CASE OF CROSSING THE EIGHTEEN-INCH VERTICAL SEPERATION, A DEVIATION FROM THIS RESTRICTION MAY BE ALLOWED ON A CASE BY CASE BASIS WITH PRIOR APPROVAL FROM THE GENERAL MANAGER/CHIEF ENGINEER AS TO THE PROPOSED MATERIALS AND INTERVENTIONS TO BE TAKEN TO PROTECT THE WATER SYSTEM FROM THE POSSIBILITY OF CONTAMINATION.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 2 5 2008 FILE # 07-0261
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SIZE

Charles A. Harte

NOTE:
THIS REGULATORY SUBMISSION SET SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS STAMPED 'ISSUED FOR CONSTRUCTION' AND SIGNED AND DATED BY A DIPRETE ENGINEERING REPRESENTATIVE

JUN 23 2008

LEONARD R. BRADLEY, JR.
No. 6610
REGISTERED PROFESSIONAL ENGINEER
CIVIL

NO.	DATE	DESCRIPTION	BY
2	6-18-08	REVISION TO RESUBMISSION	B.D.C.
1	6-12-08	REVISION TO SUBMISSION	B.D.C.
0	6-12-08	REVISION TO SUBMISSION	B.D.C.

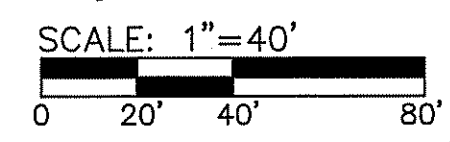
UTILITY PLAN
Middle Road Office Park
ASSESSOR'S PLAT 11H LOT 499
EAST GREENWICH, RHODE ISLAND

PREPARED BY
DiPrete Engineering Associates, Inc.
ENGINEERING, SURVEYING AND PLANNING CONSULTANTS
TWO STAFFORD COURT
CRANSTON, R.I. 02920
(401) 943-1000 FAX: (401) 464-6006

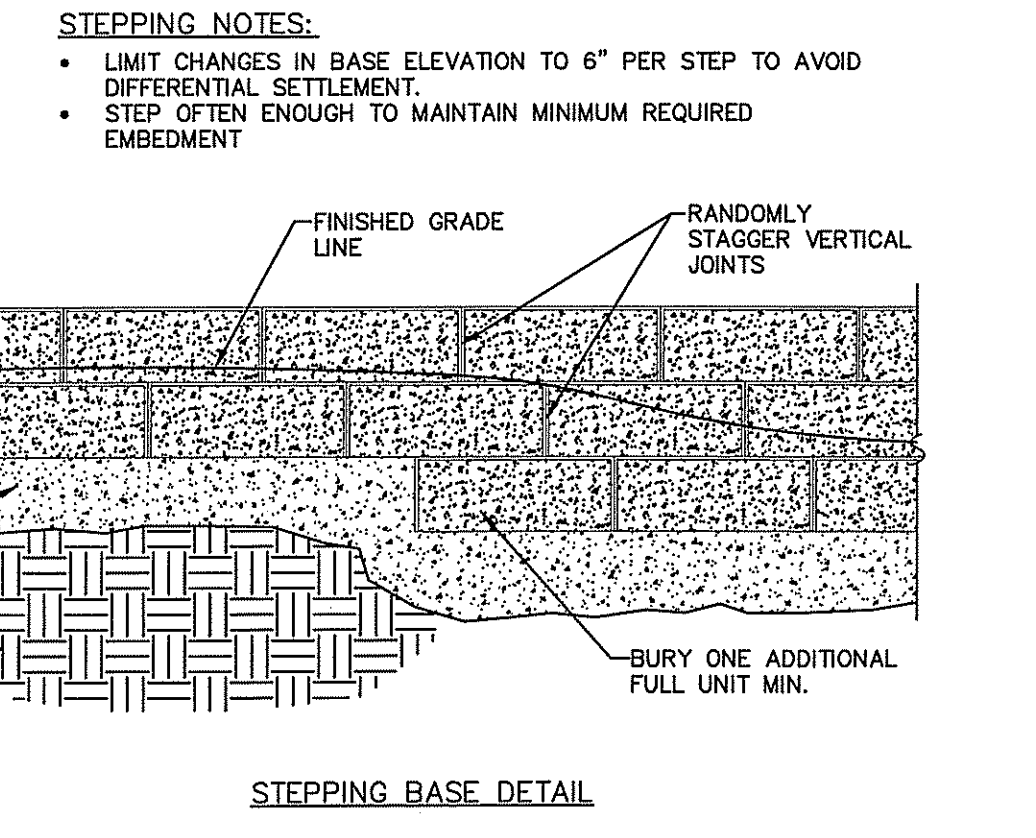
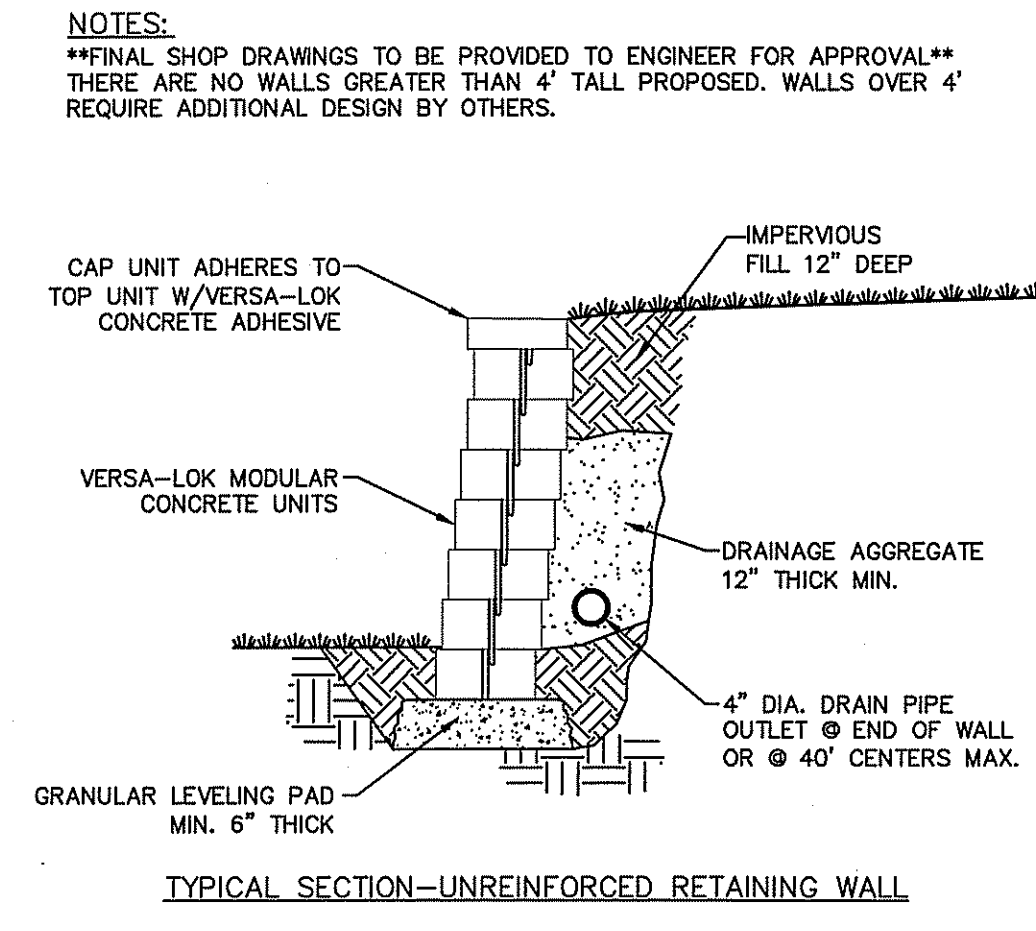
PREPARED FOR
Middle Road Enterprises, LLC
6899 POST ROAD
NORTH KINGSTOWN, R.I. 02852

MAY 2007
DWN. BY: S.A.B.

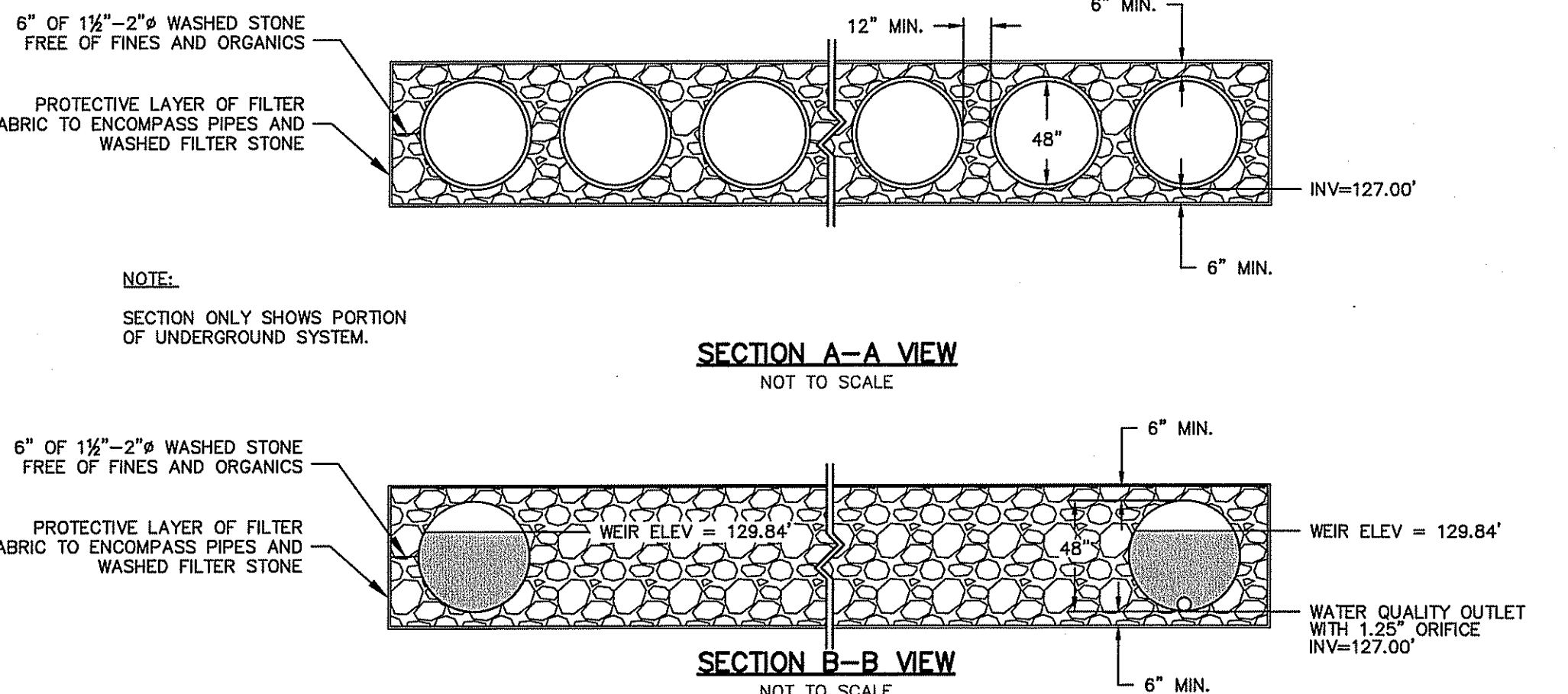
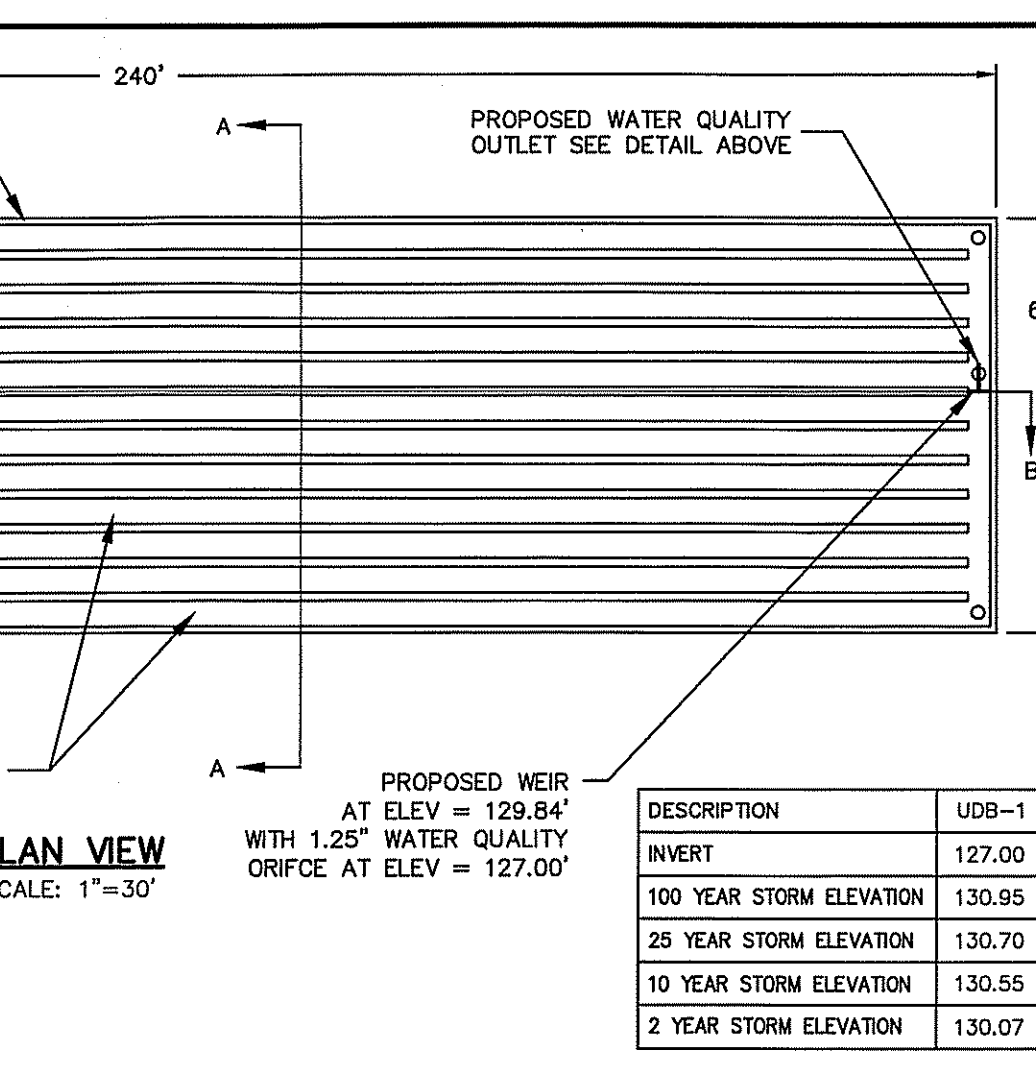
SHEET 6 OF 12



- RETAINING WALL INSTALLATION NOTES:**
- STRIP VEGETATION AND ORGANIC SOIL FROM WALL AND GEOSYNTHETIC ALIGNMENT.
 - BENCH CUT ALL EXCAVATED SLOPES.
 - DO NOT EXCAVATE BEYOND EXCAVATION LINES SHOWN ON PLAN UNLESS DIRECTED BY SITE SOILS ENGINEER TO REMOVE UNSUITABLE SOIL.
 - CONTRACTOR SHALL ENSURE TEMPORARY EXCAVATIONS ARE STABLE AND PROVIDE EXCAVATION SUPPORT IF NEEDED.
 - SITE SOILS ENGINEER SHALL VERIFY FOUNDATION SOILS AS BEING COMPETENT PER THE DESIGN PARAMETERS.
 - LOADING PAD SHALL CONSIST OF WELL GRADED ROAD BASE AGGREGATE, 3/4" CRUSHED, ANGULAR GRAVEL WITH SOME FINES.
 - CONTRACTOR MAY OPT FOR A LEAN CONCRETE LEVELING PAD. PAD SHALL BE UNREINFORCED LEAN CONCRETE, 200-300 PSI, 3" THICK MAXIMUM.
 - DRAINAGE AGGREGATE SHALL CONSIST OF CLEAN ANGULAR GRAVEL, 3/4" DIAMETER WITH LESS THAN 5% FINES.
 - DRAINAGE PIPE SHALL BE PERFORATED OR SLOTTED PVC OR CORRUGATED DRAIN PIPE.
 - REINFORCED BACKFILL SHALL BE FREE OF DEBRIS, ORGANIC SOIL, AND EXPANSIVE SOILS.
 - FOR UNITS TO BE EMBEDDED, COMPACT FILL IN FRONT OF UNITS AT THE SAME TIME FILL BEHIND UNITS IS COMPLETED.
 - COMPACTION SHALL BE TO 95% OF MAXIMUM STANDARD PROCTOR DENSITY (ASTM D-1557).
 - COMPACTION TESTS SHALL BE TAKEN AS THE WALL IS INSTALLED. THE MINIMUM NUMBER OF TESTS SHALL BE DETERMINED BY THE SITE SOILS ENGINEER.
 - COMPACTION WITHIN 3FT. OF WALL SHALL BE LIMITED TO HAND OPERATED EQUIPMENT.
 - CONTRACTOR SHALL SLOPE SITE GRADES TO DIRECT SURFACE RUNOFF AWAY FROM WALL AT END OF EACH DAY TO AVOID WATER DAMAGING THE WALL WHILE UNDER CONSTRUCTION.
 - ANY SURFACE DRAINAGE FEATURES, FINISH GRADING, PAVEMENT, OR TURF SHALL BE INSTALLED IMMEDIATELY AFTER WALL IS COMPLETED.
 - FOLLOW APPLICABLE PROVISIONS OF THE WALL UNIT AND GEOSYNTHETIC MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WRITTEN SPECIFICATIONS.
 - IF SITE AND SOIL CONDITIONS, WALL GEOMETRY, OR WALL LOADINGS ARE DIFFERENT THAN IN THE DRAWINGS AND THE DESIGN PARAMETERS, THE CONTRACTOR MUST CONTACT DESIGN ENGINEER PRIOR TO PROCEEDING WITH THE CONSTRUCTION OF THE WALL.
 - UNREINFORCED HEIGHT TO 4' ONLY.
 - CONSTRUCTION TO PROVIDE SHOP DRAWING TO ENGINEERING FOR APPROVAL PRIOR TO CONSTRUCTION.



VERSA-LOK UNREINFORCED RETAINING WALL UP TO 4' OR ENGINEER APPROVED EQUAL

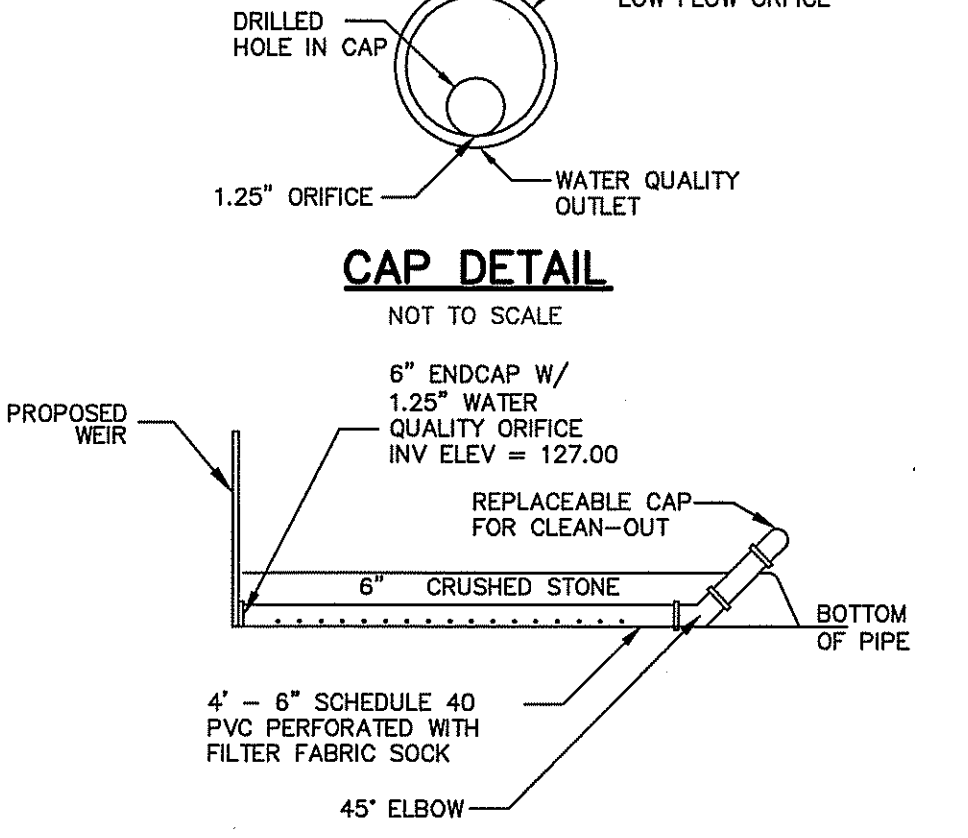


UNDERGROUND STORMWATER DETENTION POND

NOT TO SCALE

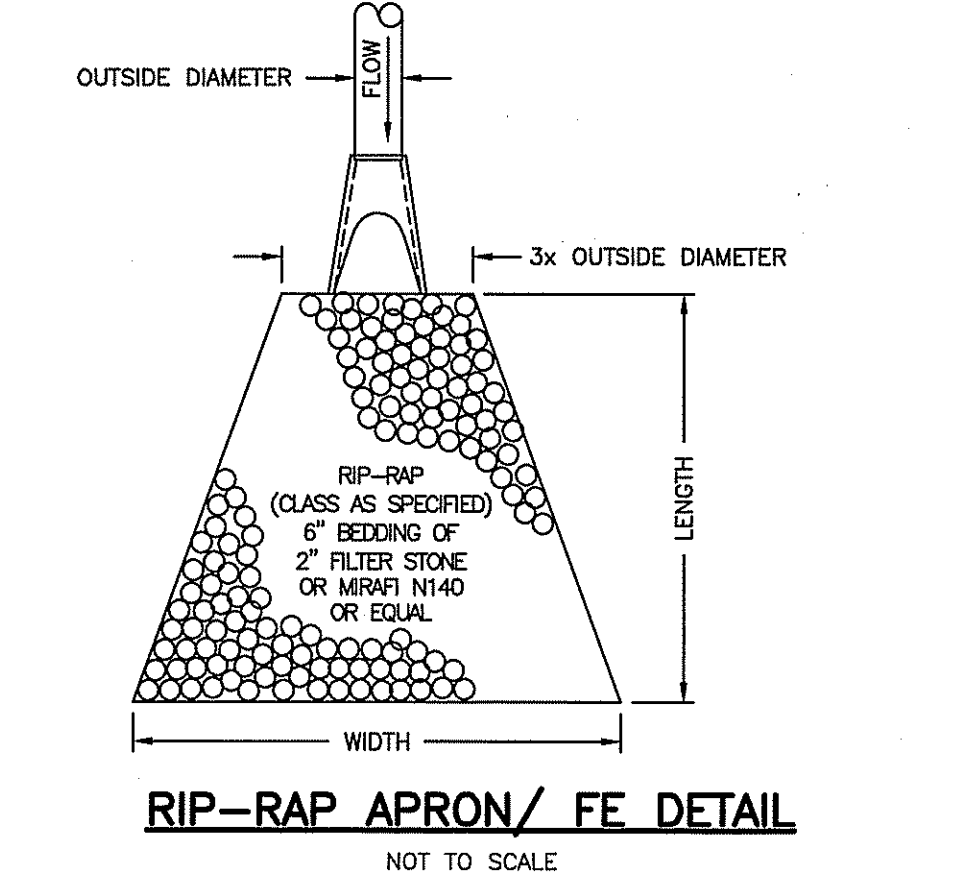
NOTES:
 FINAL SHOP DRAWINGS TO BE PROVIDED TO ENGINEER FOR APPROVAL
 THERE ARE NO WALLS GREATER THAN 4' TALL PROPOSED. WALLS OVER 4' REQUIRE ADDITIONAL DESIGN BY OTHERS.

STEPPING NOTES:
 • LIMIT CHANGES IN BASE ELEVATION TO 6" PER STEP TO AVOID DIFFERENTIAL SETTLEMENT.
 • STEP OFTEN ENOUGH TO MAINTAIN MINIMUM REQUIRED EMBEDMENT



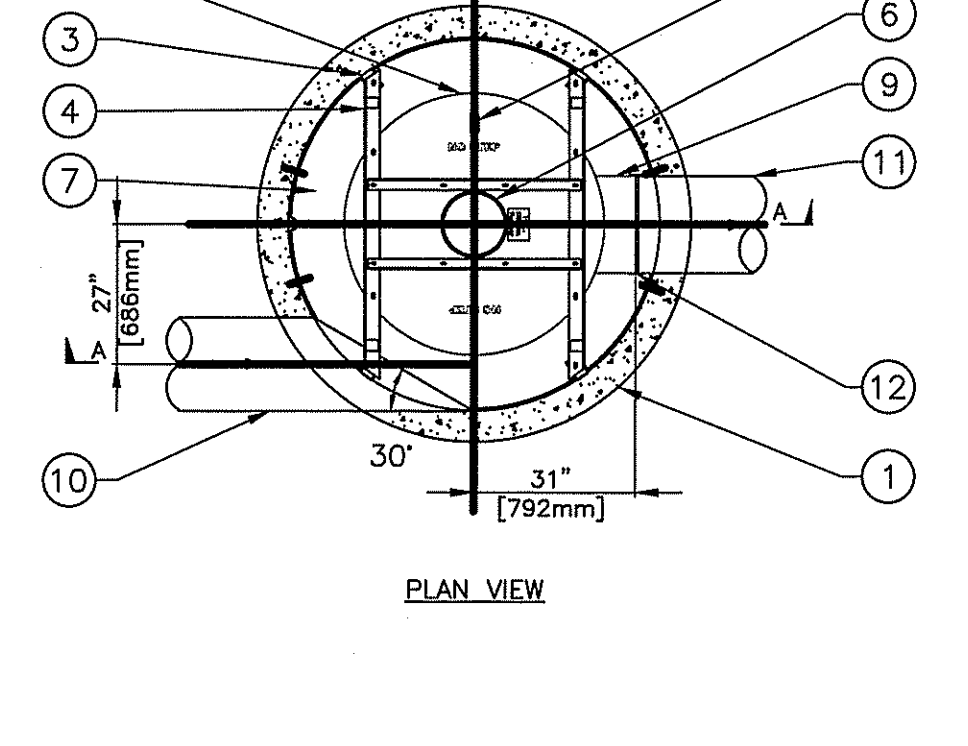
UDB-1 WATER QUALITY OUTLET

NOT TO SCALE



RIP-RAP APRON/ FE DETAIL

NOT TO SCALE

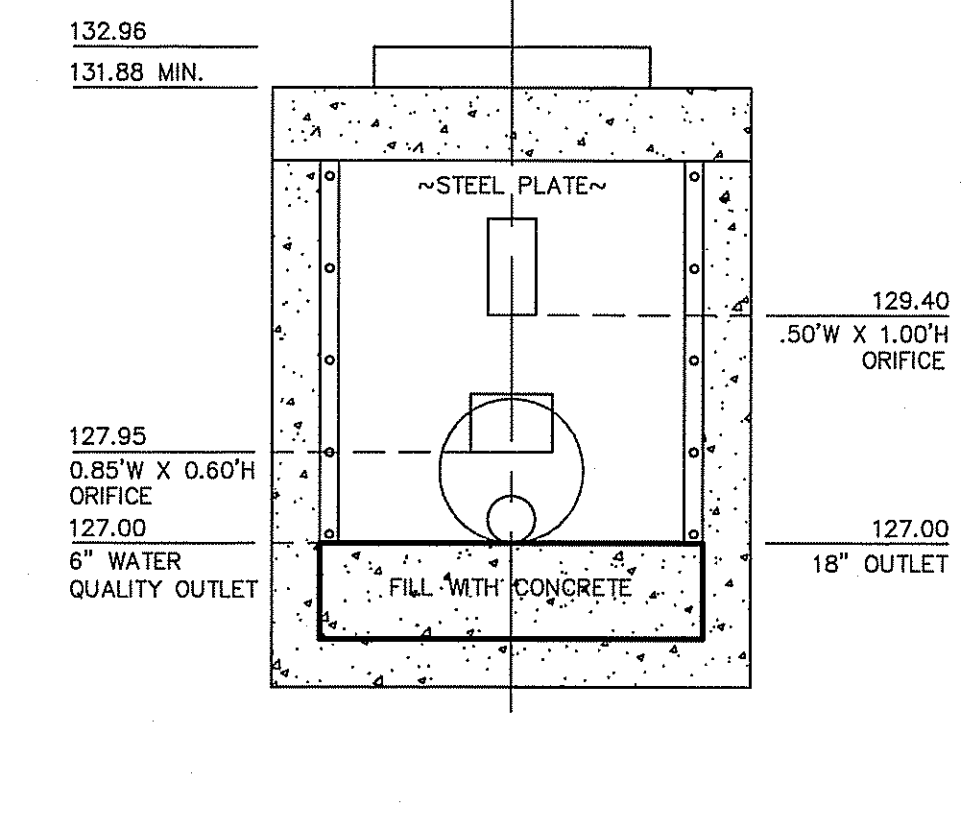


ITEM	SIZE	DESCRIPTION
1	72 in. 1829mm	I.D. CONCRETE MANHOLE
2	24 in. 610mm	MANHOLE LID, FRAME & COVER
3	16 in. 406mm	MANHOLE LID, FRAME & COVER
4		LEDGER ANGLE (TYP.)
5		SUPPORT FRAME
6		CENTER SHAFT & CONE
7		BENCHING SKIRT
8		FLOATABLES LID W/ VENT
9	18 in. 457mm	OVERFLOW PIPE STUB
10	18 in. 457mm	TANGENTIAL INLET PIPE (BY OTHERS)
11	18 in. 457mm	OVERFLOW PIPE (BY OTHERS)
12		PIPE COUPLING (BY OTHERS)

NOTE:
 SHOP DRAWINGS TO BE PROVIDED TO ENGINEER FOR ALL SUBSURFACE DRAINAGE DEVICES. SHOP DRAWINGS ARE TO BE STAMPED BY A RHODE ISLAND PROFESSIONAL ENGINEER.

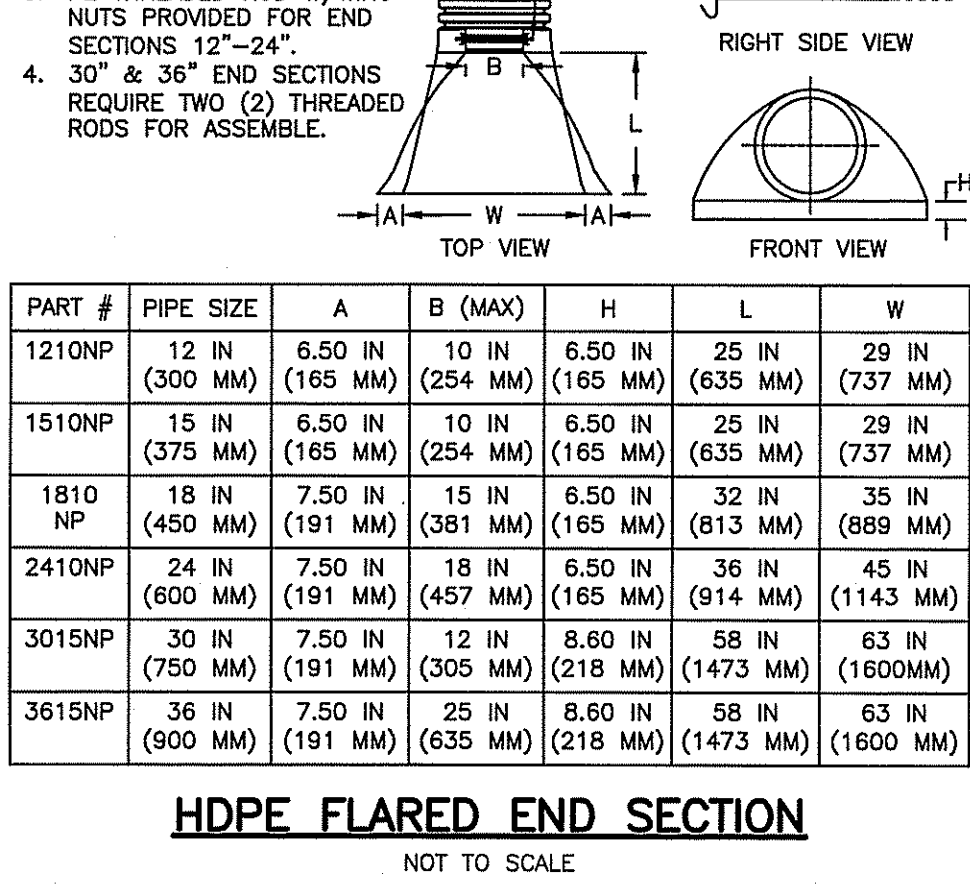
6' DOWNSTREAM DEFENDER (DD-1) HYDRO INTERNATIONAL

NOT TO SCALE



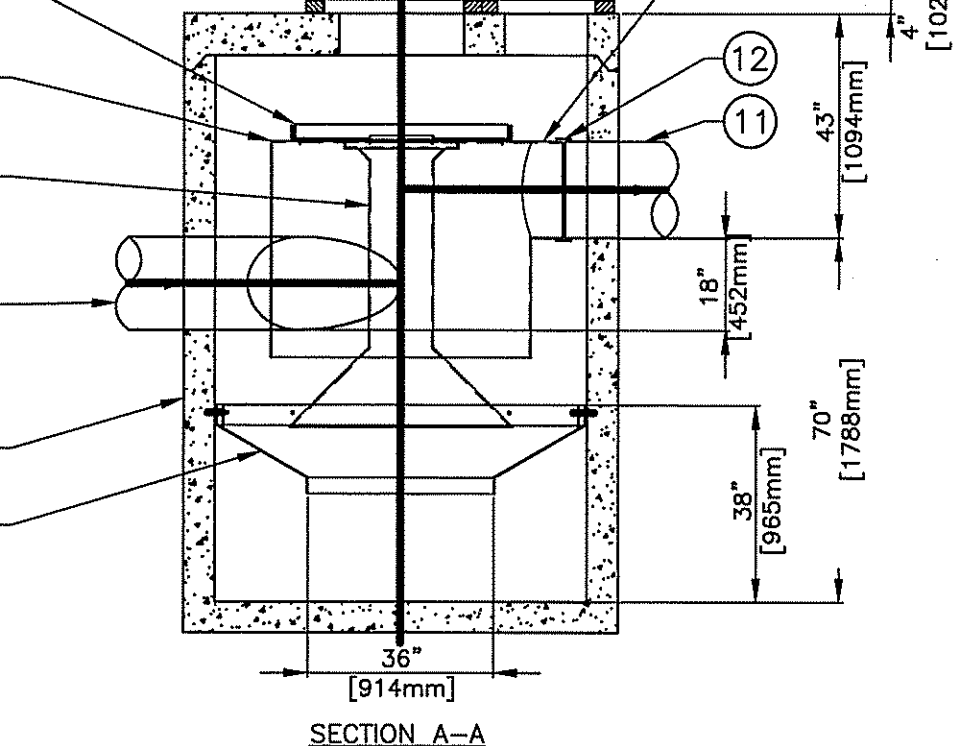
UDB-1 OUTLET STRUCTURE (DMH-3)

SCALE: 1"=2'



HDPE FLARED END SECTION

NOT TO SCALE



EQUIPMENT PERFORMANCE
 The stormwater treatment unit shall adhere to the hydraulic parameters given in the chart below and provide the removal efficiencies and storage capacities as follows:

- Performance objectives: The unit shall be capable of treating the peak flow rate listed below.
- Peak treatment flow: 8.0 cfs [227 l/s]
- Depth of flow in overflow pipe at 8.0 cfs: 11 in. [280mm]
- Estimated headloss* at 8.0 cfs: 8 in. [204mm]
- Sediment storage capacity: 2.10 Cu. yd. [1.61 cu.m.]
- Oil storage capacity: 230 Gal. [871 liters]
- Sediment shall be stored in a zone that is isolated from the main flow path and protected from reentrainment by a benching skirt.

*Headloss is defined as the difference between static water level at the inlet of the Downstream Defender to the free water surface in the overflow pipe, assuming free discharge.

Dimensions are general and intended for guidance only. The orientation of the inlet pipe and overflow pipe can be adjusted to site requirements. See site plan for orientation.

6.0 EROSION AND SEDIMENTATION CONTROL MEASURES. PERMANENT STABILIZATION, AND MAINTENANCE

THE SOIL EROSION, SEDIMENT, AND RUNOFF CONTROL WILL BE ACCOMPLISHED BY THE USE OF THE FOLLOWING DURING AND AFTER CONSTRUCTION:

ESTABLISHMENT OF TEMPORARY AND PERMANENT VEGETATIVE COVER NON-STRUCTURAL MEASURES

6.1 ESTABLISHMENT OF VEGETATIVE COVER

6.1.1 SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME IN THE WINTER SEASON. 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 IS TO RESUME WITHIN TWENTY-ONE (21) DAYS.

6.1.2 ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED OR PROTECTED.

6.1.3 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'S STANDARD SPECIFICATION, M.202.

6.1.4 THE SEEDING DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING:

TYPE	SEEDING RATE (LBS/AC)
CREeping RED FESCUE	75
KENTUCKY BLUE GRASS	15
COLONIAL BENT GRASS	5
PERENNIAL RYE GRASS	5

EARLY SPRING OR LATE SUMMER SEEDING IS RECOMMENDED. SEED AS REQUIRED BY SOIL TESTING TO COMPLEMENT OR UPGRADE EXISTING CONDITIONS. THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS AND BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULANTS FOR EACH VARIETY.

6.1.5 TEMPORARY TREATMENTS SHALL CONSIST OF HAY STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING. TEMPORARY HAY MULCH TO BE TAKEN IN PLACE WITH NYLON MESH NETTING. SIDE SLOPES OF BASINS SHALL BE TREATED WITH NORTH AMERICAN GREEN EROSION CONTROL BLANKETS SUCH AS S150 OR APPROVED EQUAL. THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER. HAY OR STRAW APPLICATIONS SHALL BE IN THE AMOUNT OF 2 TONS/ACRE.

6.1.6 ALL HAY BALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.

6.1.7 ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH LOCAL MUNICIPAL REQUIREMENTS AND THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE SECTION 202.

6.1.8 STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDED AND/OR STABILIZED.

6.1.9 ALL AREAS PROPOSED TO BE VEGETATED THAT ARE DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISH GRADING. PERMANENTLY SEEDING AREAS SHALL BE PROTECTED DURING ESTABLISHMENT AND FOR SEEDING THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN. 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 TO THE OWNER.

6.1.12 REFERENCE THE "RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK" PREPARED BY THE USDA SOIL CONSERVATION SERVICE 1989 AS A GUIDE.

6.2 NON-STRUCTURAL MEASURES

6.2.1 CONSTRUCTION TRAFFIC SHALL BE LIMITED TO THE ACCESS DRIVEWAY, UTILITY EASEMENTS AND AREAS TO BE GRADED.

6.2.2 A STONE STABILIZATION PAD IS LOCATED AT THE SITE ENTRANCE TO REDUCE THE TRACKING OR FLOWING OF SEDIMENT ONTO THE PUBLIC RIGHT OF WAY.

6.2.3 TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER USE. STOCKPILE LOCATION SHALL BE SUBJECT TO APPROVAL BY THE PROJECT ENGINEER. A SEDIMENT BARRIER SHALL SURROUND ALL TOPSOIL STOCKPILES.

6.2.4 HAY BALES OR SILT FENCE SHALL BE INSTALLED DOWNSTREAM OUTSIDE THE LIMITS OF ANY PROPOSED CONSTRUCTION AS SHOWN ON THE SITE PLANS AND PRIOR TO THE COMMENCEMENT OF THE PROPOSED ALTERATION.

6.2.5 ALL TYPES OF WASTE GENERATED AT THE SITE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH STATE LAW AND/OR REGULATIONS. CONSTRUCTION DEBRIS SHALL BE REMOVED DAILY TO AVOID OBSTRUCTION TO PROBABLY TO BE.

6.2.6 THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION OF NON-STRUCTURAL MEASURES AND FOR SEEING THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN.

6.2.7 REFERENCE THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE USDA SOIL CONSERVATION SERVICE 1989, AS A GUIDE.

6.3 STRUCTURAL MEASURES

6.3.1 RUNOFF WATER QUALITY IS IMPROVED UTILIZING WATER QUALITY SEDIMENTATION AND EXTENDED DRY DETENTION BASINS. CONSTRUCTION OF THE DETENTION BASINS SHALL BE SUPERVISED BY THE DESIGN ENGINEER. THE DETENTION BASINS SHALL BE BUILT TO CONTROL RUNOFF FOR 2 THROUGH 100 YEAR STORM FREQUENCIES. SIDE SLOPES WITHIN THE DETENTION BASINS SHALL BE 1:1 MAXIMUM, UNLESS NOTED OTHERWISE. SIDE SLOPES GREATER THAN 1:1 SHALL BE REINFORCED WITH RIP RAP. ALL EMBANKMENTS OF THE BASINS SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH R.I. STANDARD SPECIFICATION SECTION 202. THE EMERGENCY DRIVEWAY SHALL BE PROTECTED BY RIP RAP DOWNSTREAM AND UPSTREAM. A GRADUATED GAGE IS TO BE SET WITHIN THE BASIN TO MONITOR ACCUMULATED SEDIMENTS. A REPORT AND PLAN OF AS-BUILT CONSTRUCTION SHALL BE AVAILABLE TO THE TOWN OF EAST GREENWICH.

6.3.2 RIP RAP APRONS AND/OR LEVEL SPREADERS SHALL BE INSTALLED AT THE OUTLETS OF ALL DRAINAGE PIPES.

6.3.3 THE CONSTRUCTION SUPERINTENDENT SHALL HAVE THE OVERALL RESPONSIBILITY FOR STRUCTURAL MEASURE IMPLEMENTATION AND FOR SEEING THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN.

6.3.4 REFERENCE THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY USDA SOIL CONSERVATION SERVICE 1989, AS A GUIDE.

6.4 MAINTENANCE: SHORT TERM / LONG TERM

6.4.1 THE STONE STABILIZATION PADS AT THE SITE ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR. THE MAINTENANCE SHALL INCLUDE DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND OR AS DIRECTED BY THE ENGINEER. ALL SEDIMENT DROPPED, WASHED, OR TRACKED ON THE PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.

6.4.2 ALL HAY BALES/SILT FENCE, TEMPORARY TREATMENTS (HAY, STRAW, ETC.), AND TEMPORARY PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION. HAY BALES/SILT FENCE SHALL BE INSPECTED BY THE CONTRACTOR WITHIN 24 HOURS AFTER EACH STORM OR EVERY 7 DAYS, WHICHEVER COMES FIRST, FOR UNDERMINING AND DETERIORATION. THE HAY BALES/SILT FENCE SHALL BE REPAIRED OR REPLACED AS WARRANTED. THE CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT TO HALF OF THE ORIGINAL HEIGHT OF THE HAY BALES/SILT FENCE BECOMES FILLED IN WITH SEDIMENT. A STORM EVENT SHALL BE DEFINED AS 0.25 INCHES OF RAIN WITHIN A 24-HOUR PERIOD. THE HAY BALES/SILT FENCE SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED. FOLLOWING CONFIRMATION FROM THE TOWN OF EAST GREENWICH OR THE PROJECT ENGINEER THAT AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER HAS BEEN ESTABLISHED THE HAY BALES/SILT FENCE SHALL BE REMOVED.

6.4.3 THE CONTRACTOR SHALL MAINTAIN ALL TOPSOIL STOCKPILES AND SEDIMENT BARRIERS THROUGHOUT CONSTRUCTION. EXTREME CARE SHALL BE TAKEN TO ENSURE THAT SEDIMENTS DO NOT SPILL OVER THE SEDIMENT BARRIER. HAY BALES OR SILT FENCE SHALL BE STAKED AROUND THE STOCKPILES.

6.4.4 ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED, PROTECTED, AND MAINTAINED BY THE CONTRACTOR FOLLOWING FINAL GRADING AND CONSTRUCTION. THE CONTRACTOR SHALL CHECK REGULARLY ALL SEEDED AREAS TO SEE THAT A GOOD STAND OF VEGETATION IS MAINTAINED. THE CONTRACTOR MUST REPAIR OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE OWNER.

6.4.5 THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND INSPECTION OF THE BASINS DURING AND UP TO A YEAR AFTER COMPLETION OF CONSTRUCTION AND ACCEPTANCE BY THE OWNER. THE OWNER IS RESPONSIBLE FOR INSPECTIONS AND MAINTENANCE THEREAFTER. THE CONTRACTOR'S MAINTENANCE/INSPECTION RESPONSIBILITIES SHALL INCLUDE REPAIRING UNSTABILIZED AREAS WITHIN THE BASINS AT NO ADDITIONAL EXPENSE TO THE OWNER, REMOVING ACCUMULATED SILT WHEN THE SILT REACHES THE HEIGHT SPECIFIED IN THE DESIGN VOLUME CALCULATIONS AND MAINTAINING THE GRASS TO A GROWING HEIGHT BETWEEN 2" AND 4". THE CONTRACTOR SHALL INSPECT RIP RAP PADS AFTER EACH STORM AND REPAIR AS NECESSARY. THE OWNER'S MAINTENANCE/INSPECTION RESPONSIBILITIES SHALL INCLUDE INSPECTION OF THE BASINS AND RIP RAP PADS SEMIANNUALLY AND AFTER MAJOR STORMS. IF REPAIRS ARE NEEDED, THEY SHALL BE CARRIED OUT IMMEDIATELY. THE OWNER SHALL MAINTAIN A GOOD VEGETATIVE COVER (GRASS BETWEEN 2" AND 4" VEGETATION AS SPECIFIED). THE BOTTOM OF THE DETENTION BASINS SHALL BE INSPECTED ON A SEMI-ANNUAL BASIS AND ACCUMULATED SEDIMENTS SHALL BE REMOVED WHEN THEY REACH THE HEIGHT SPECIFIED IN THE DESIGN VOLUME CALCULATIONS OR EVERY 10 YEARS, WHICHEVER COMES FIRST.

6.4.6 THE CONTRACTOR SHALL MAINTAIN THE DRAINAGE NETWORK DURING AND UP TO A YEAR AFTER COMPLETION OF CONSTRUCTION AND ACCEPTANCE BY THE OWNER. THE OWNER IS RESPONSIBLE FOR INSPECTIONS AND MAINTENANCE THEREAFTER. THE ACCUMULATED SEDIMENTS IN THE CATCH BASINS SHALL BE REMOVED AND DRAINAGE PIPES FLUSHED BY THE CONTRACTOR AT THE END OF THE CONSTRUCTION. CATCH BASIN SUMPS SHALL BE CHECKED ANNUALLY AND SEDIMENTS SHALL BE REMOVED IF THEY EXCEED 6" DEPTH OR EVERY 10 YEARS, WHICHEVER COMES FIRST.

6.4.7 THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR THE MAINTENANCE PROGRAM DURING THE CONSTRUCTION PHASE AND FOR A PERIOD OF ONE YEAR AFTER CONSTRUCTION. THE SUPERINTENDENT SHALL SEE THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN.

6.4.8 AFTER ACCEPTANCE OF THE ROADWAY BY THE OWNER, THE OWNER SHALL HAVE OVERALL RESPONSIBILITY FOR IMPLEMENTING THE MAINTENANCE PROGRAM FOR THE DRAINAGE NETWORK.

8.0 SEQUENCE OF CONSTRUCTION AND STAGING OF LAND DISTURBING ACTIVITIES

8.1 CONSTRUCTION TO BEGIN IN THE FALL OF 2008 OR UPON RECEIPT OF ALL NECESSARY APPROVALS.

8.2 SURVEY AND STAKE THE PROPOSED BUILDINGS, PARKING AREAS, DETENTION BASINS, DRAINAGE LINES, AND LIMIT OF SEDIMENTATION BARRIERS/LIMIT OF DISTURBANCE.

8.3 PLACE SEDIMENTATION BARRIERS (HAY BALES OR SILT FENCE) AS SHOWN ON THE PLANS AND STAKED OUT IN THE FIELD. IN NO CASE IS THE LIMIT OF WORK TO EXTEND BEYOND THE SEDIMENTATION BARRIERS.

8.4 BEGIN CLEARING AND GRUBBING IN AREA OF PARKING AREAS, DRIVEWAY AND DETENTION BASINS. TOPSOIL IS TO BE STRIPPED FROM THE AREA OF THE PROPOSED DETENTION BASINS AND STOCKPILED IN APPROVED LOCATIONS. TOPSOIL STOCKPILES ARE TO BE PROTECTED BY A ROW OF SEDIMENTATION BARRIERS AND COVERED OR TEMPORARILY SEEDED.

8.5 EXCAVATE AND GRADE THE PROPOSED DETENTION BASINS AND ROADWAYS. THE DETENTION BASINS SHALL BE PERMANENTLY SEEDING FOLLOWING FINISH GRADING.

8.6 INSTALL THE UNDERGROUND DRAINAGE SYSTEM.

8.7 INSTALL DRAIN PIPING, DRAINAGE MANHOLES AND CATCH BASINS BEGINNING AT THE DETENTION BASINS AND WORKING UPSTREAM. PROTECT DISCHARGE OUTLETS WITH RIP-RAP APRONS. PLACE EROSION CONTROL MATS AT THE DISCHARGE POINTS AND SEED THE DETENTION BASINS AND DISTURBED AREAS OUTSIDE OF THE AREA TO BE PAVED. THE ALL UNSTABILIZED AREAS ARE TO BE PROTECTED FROM RUNOFF UNTIL VEGETATION IS ESTABLISHED.

8.8 ONCE THE INSTALLATION OF THE DRAINAGE NETWORK IS COMPLETE INSTALL THE WATER AND SEWER SERVICES FOR THE BUILDINGS AND OTHER UNDERGROUND UTILITIES SUCH AS: ELECTRIC, WATER, SEWER, TELEPHONE, CABLE AND GAS IN ACCORDANCE WITH THE APPROVED FINAL PLANS.

8.9 PLACE COMPACTED GRAVEL FOUNDATION AND ROUGH GRADE THE DRIVEWAY AND PARKING AREAS IN ACCORDANCE WITH THE SITE PLANS AND IN ACCORDANCE WITH THE TOWN OF EAST GREENWICH, RHODE ISLAND, LAND DEVELOPMENT AND SUBDIVISION REGULATIONS.

8.10 PLACE BITUMINOUS ASPHALT BINDER PER SITE PLANS AND IN ACCORDANCE WITH THE TOWN OF EAST GREENWICH, RHODE ISLAND DEVELOPMENT AND SUBDIVISION REGULATIONS.

8.11 ONCE BITUMINOUS ASPHALT BINDER COURSE IS PLACED, CONSTRUCTION OF OFFICE BUILDINGS MAY COMMENCE. CONSTRUCTION TO INCLUDE EXCAVATION FOR FOUNDATION AND BUILDING CONSTRUCTION.

8.12 ONCE THE MAJORITY OF THE SITE IS STABILIZED THE DETENTION BASINS AND DRAINAGE NETWORK MAY BE BROUGHT ONLINE WITH THE APPROVAL OF THE DESIGN ENGINEER OR THE TOWN OF EAST GREENWICH.

8.13 ONCE THE MAJORITY OF THE PROPOSED BUILDINGS ARE BUILT AND THE TOWN HAS APPROVED THAT THE BITUMINOUS ASPHALT IS READY FOR BITUMINOUS ASPHALT TOP COAT, INSTALL BITUMINOUS BEAM, REGRADE LOAD AND SEED IN THE LANDSCAPE AREAS, ADJUST STRUCTURES AND PLACE FINAL BITUMINOUS ASPHALT PAVEMENT.

8.14 FINISH PERMANENT STABILIZATION. REPAIR DRAINAGE OUTLETS AND BASINS AS REQUIRED. TREE LIMBS, LEAVES, COBBLES, BouldERS, ETC. SHALL BE REMOVED FROM THE BOTTOM OF THE BASINS BEFORE THE APPLICATION OF TOPSOIL.

8.15 SWEEP THE DRIVEWAY AND PARKING AREAS TO REMOVE ALL SEDIMENTS.

8.16 THE CONTRACTOR SHALL CLEAN AND FLUSH THE DRAINAGE STRUCTURES AND PIPES AT THE END OF CONSTRUCTION AND ALL ACCUMULATED SEDIMENTS IN THE DETENTION BASINS SHALL BE REMOVED.

8.17 REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES FOLLOWING VEGETATIVE ESTABLISHMENT OF ALL DISTURBED AREAS.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JUL 25 2008 FILE # 07-0261
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

LEONARD R. BRADLEY, JR.
 No. 6610
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

MAY 2007
 DWN. BY S.A.B.

NO. DATE DESCRIPTION BY

UNDERGROUND DETENTION DETAILS
Middle Road Office Park
 ASSESSOR'S PLAT 11H LOT 499
 EAST GREENWICH, RHODE ISLAND

PREPARED BY
DiPrete Engineering Associates, Inc.
 ENGINEERING, SURVEYING AND PLANNING CONSULTANTS
 TWO STAFFORD COURT
 CRANSTON, R.I. 02920
 (401) 943-1000 FAX: (401) 464-6006

PREPARED FOR
Middle Road Enterprises, LLC
 6899 POST ROAD
 NORTH KINGSTOWN, R.I. 02852

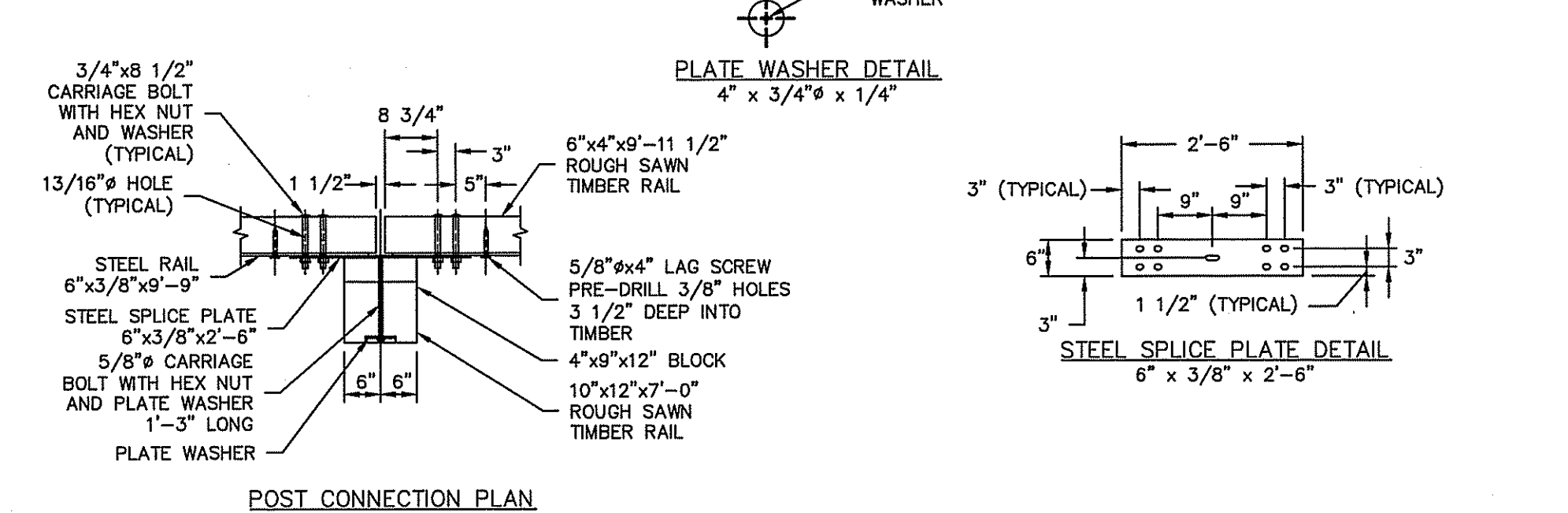
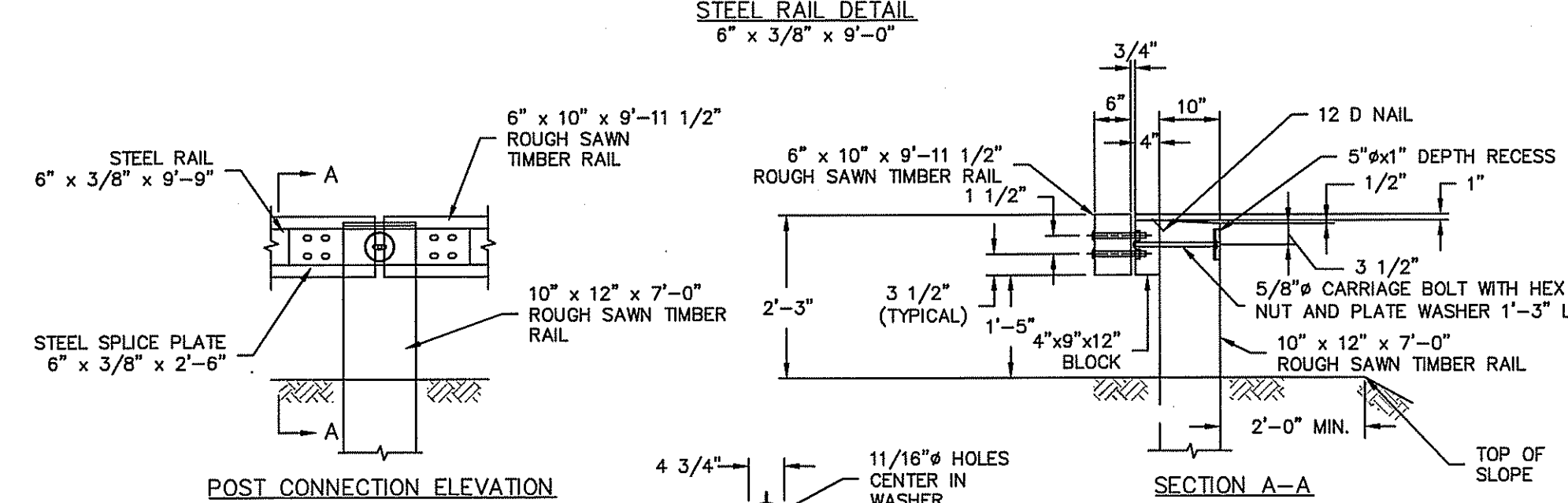
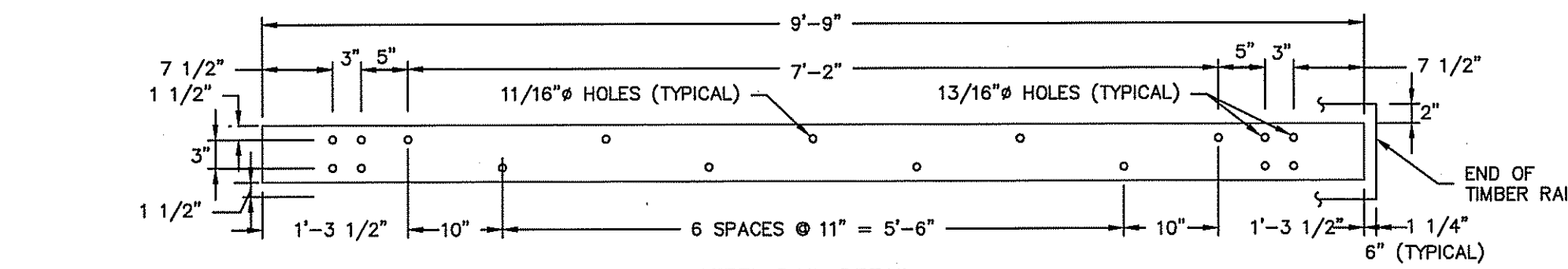
MAY 2007
 DWN. BY S.A.B.

SHEET 8 OF 12

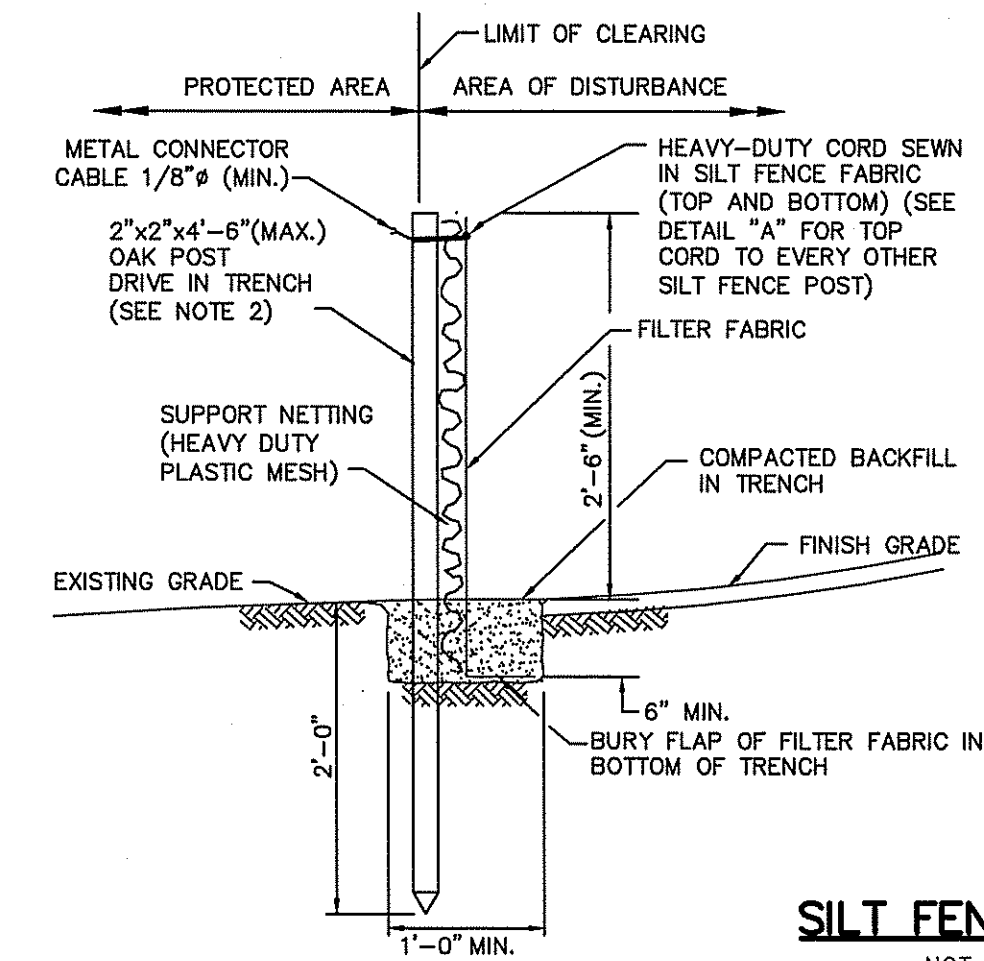
DEA Job No. 1009-002 Copyright 2008 by DiPrete Engineering Associates, Inc.

NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 900 OF THE R.I. STANDARD SPECIFICATIONS.
 2. ALL STRUCTURAL STEEL AND FASTENER HARDWARE SHALL BE WEATHERING STEEL AS SPECIFIED.

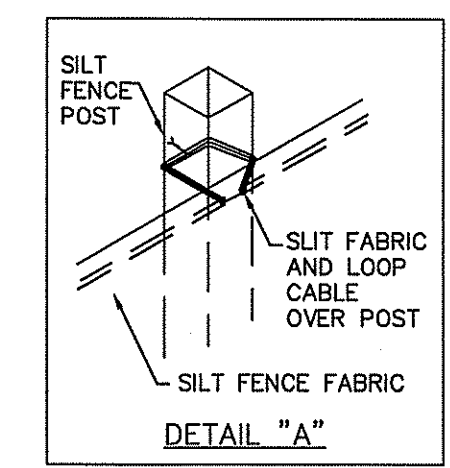
R.I. STANDARD 34.4.0



STEEL BACKED TIMBER GUARDRAIL
 NOT TO SCALE

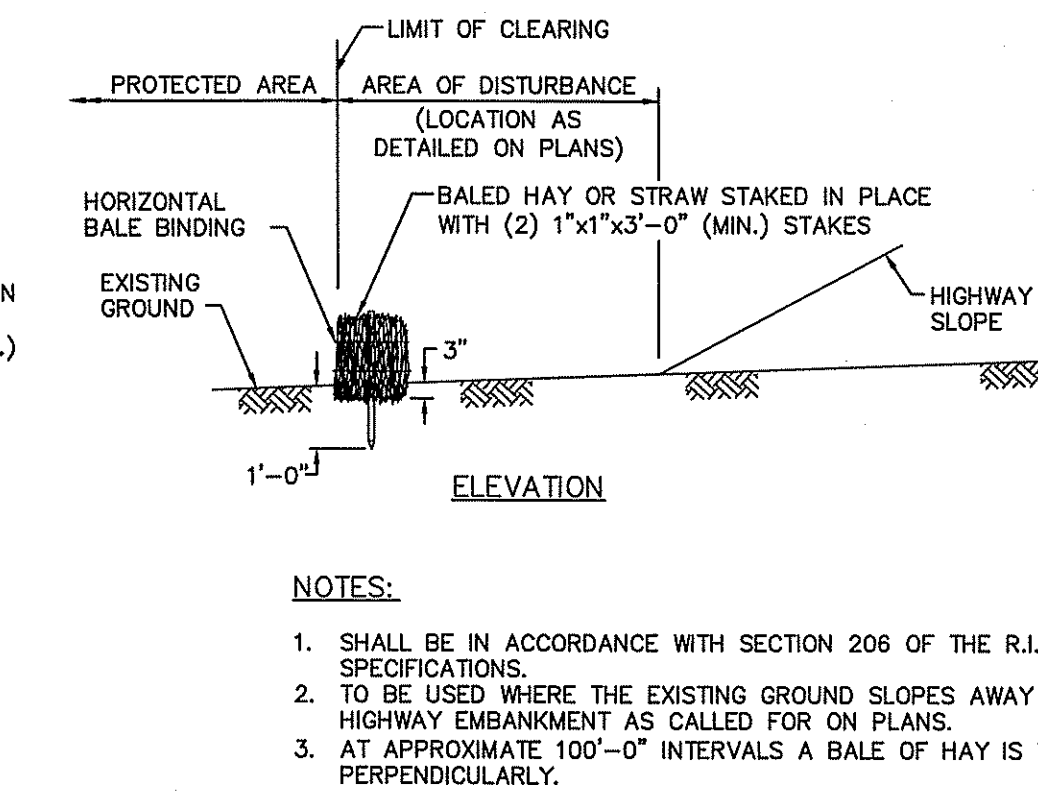
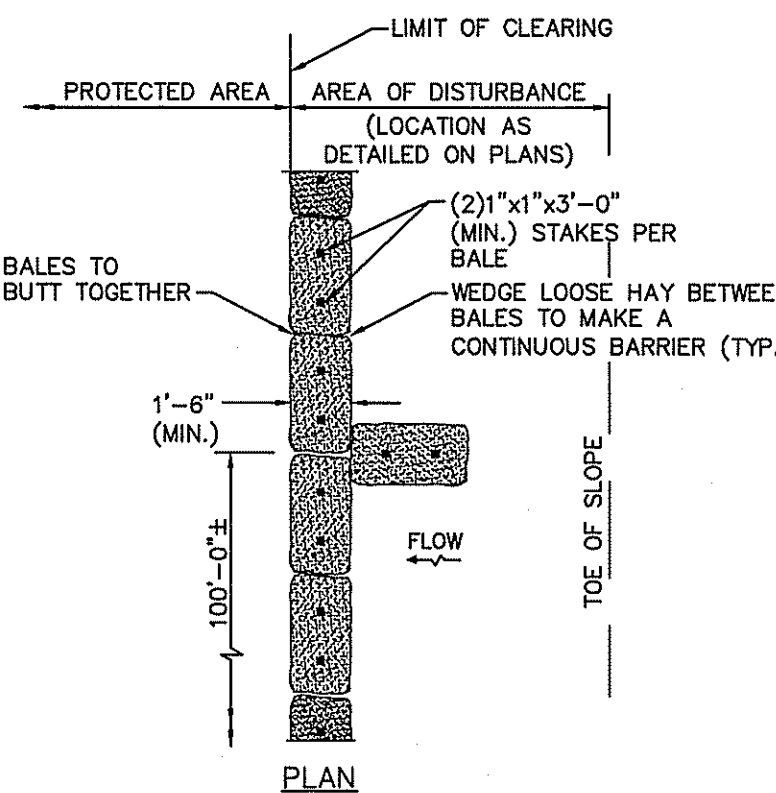


SILT FENCE DETAIL
 NOT TO SCALE



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 AN 4'-0" (MAX.) O.C. IN WETLAND RAVINE, 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.

R.I. STANDARD 9.2.0



BALED HAY EROSION CHECK
 NOT TO SCALE

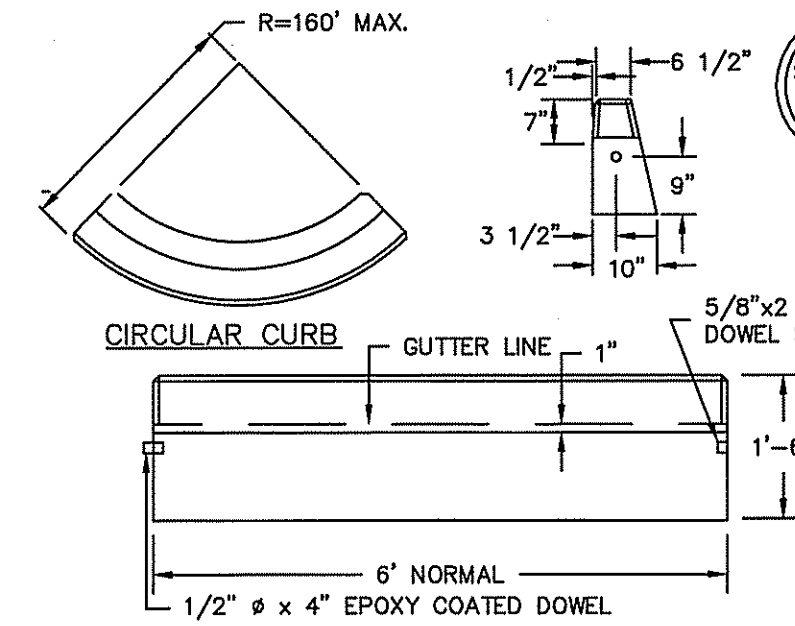
NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
 2. TO BE USED WHERE THE EXISTING GROUND SLOPES AWAY FROM THE HIGHWAY EMBANKMENT AS CALLED FOR ON PLANS.
 3. AT APPROXIMATE 100'-0" INTERVALS A BALE OF HAY IS TO BUTT PERPENDICULARLY.

R.I. STANDARD 9.1.0

LEGEND		STOP
COLOR	BACKGROUND	RED
COPY	WHITE	
SIGN WIDTH	24"	30"
SIGN HEIGHT	36"	48"
LEGEND		DO NOT ENTER
COLOR	BACKGROUND	RED
COPY	WHITE	
SIGN WIDTH	30"	36"
SIGN HEIGHT	30"	36"
LEGEND		ONE WAY
COLOR	BACKGROUND	BLACK-ARROW WHITE
COPY	BLACK	
SIGN WIDTH	36"	
SIGN HEIGHT	12"	

REGULATORY SIGNS
 NOT TO SCALE

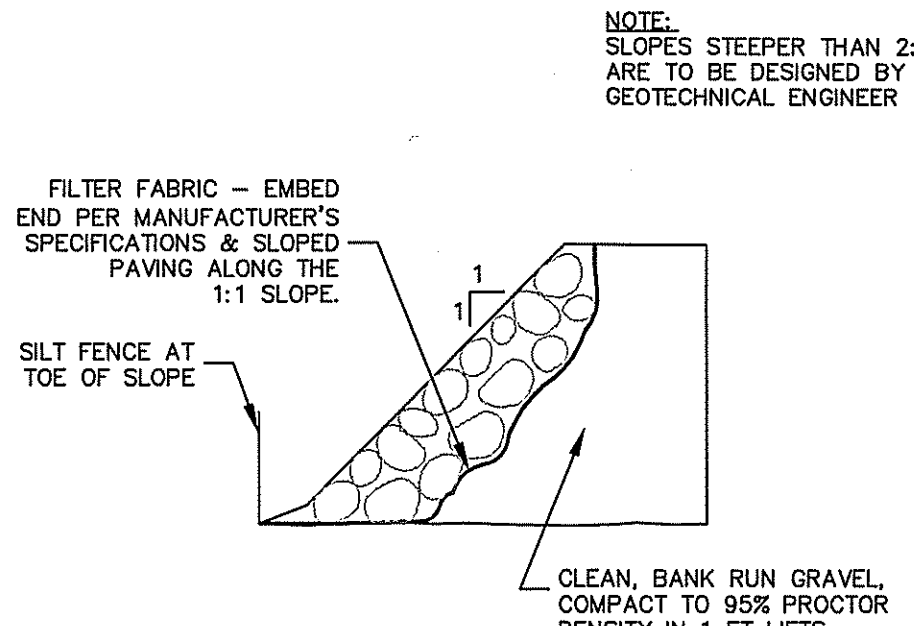
NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION T.15 OF THE R.I. STANDARD SPECIFICATIONS.
 2. * DENOTES TYPE VI GRADE SHEETING.
 3. REGULATORY SIGNS SHALL BE MOUNTED IN ACCORDANCE WITH STD. 24.1.0, 24.2.0 OR 24.6.0.
 4. THICKNESS OF ALUMINUM SIGN PLATES:
 LESS THAN 10 SQ. FT. - 0.081 IN;
 10 SQ. FT. TO 36 SQ. FT. - 0.102 IN;
 GREATER THAN 36 SQ. FT. - 0.125 IN;
 FOR ADDITIONAL SIGNS SEE THE MUTCD.
 5. SHALL MEET OR EXCEED GUIDELINES OF PDOT STANDARD DETAIL 27.1.0



NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 905 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 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" RADIUS.
 5. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.

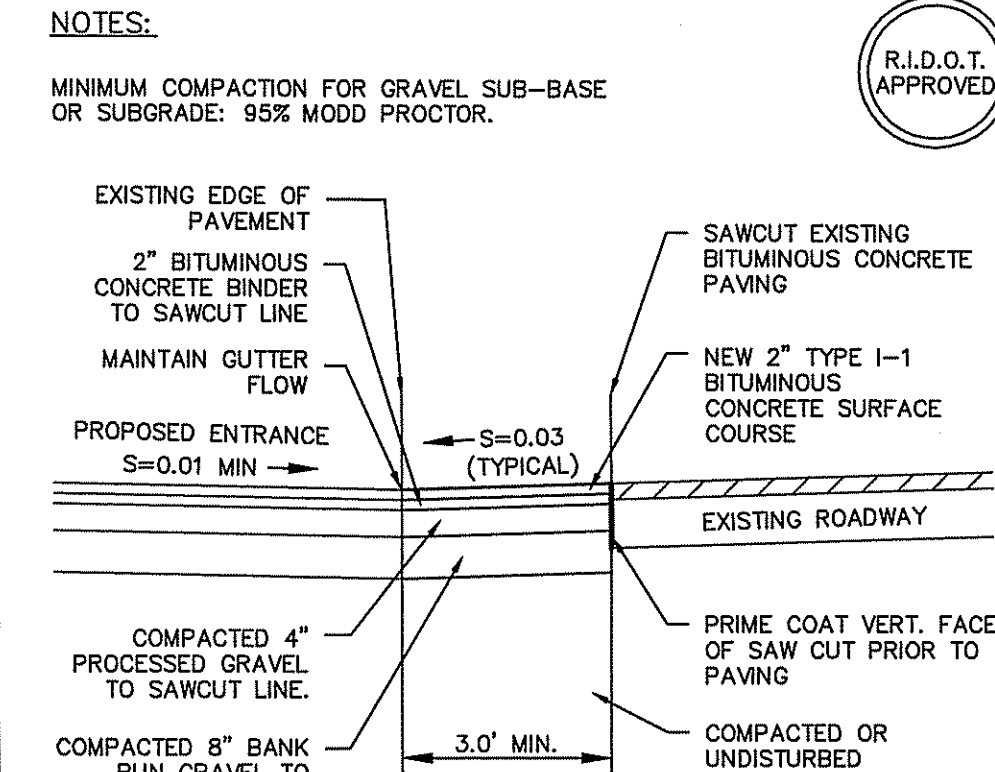
PRECAST CONCRETE CURB
 NOT TO SCALE

R.I. STANDARD 7.1.0



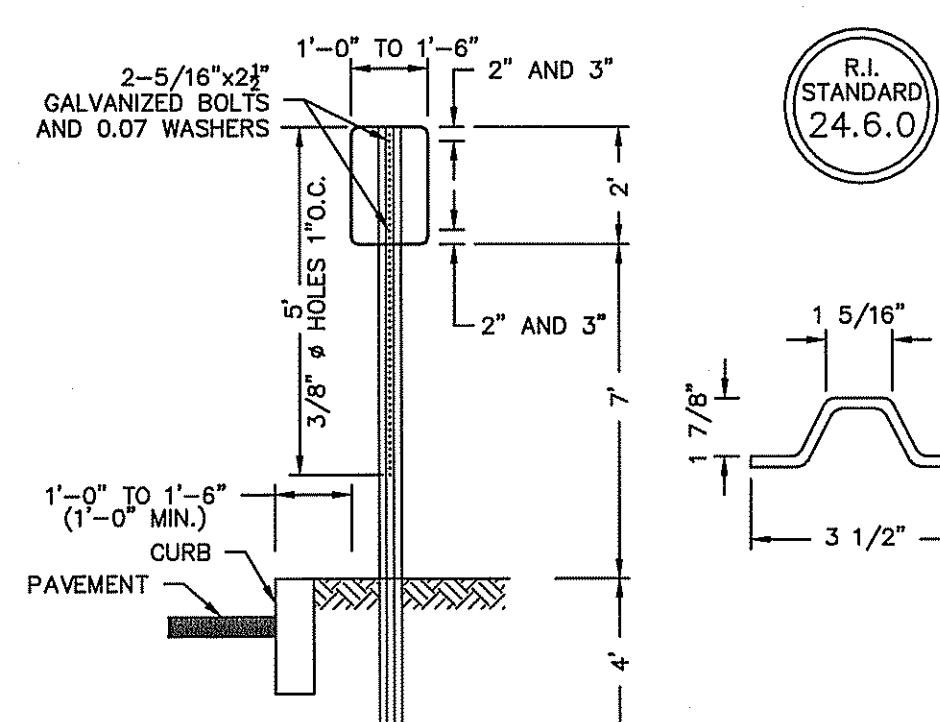
NOTE:
 SLOPES STEEPER THAN 2:1 ARE TO BE DESIGNED BY A GEOTECHNICAL ENGINEER

REINFORCED 1:1 SLOPE DETAIL
 DETAIL PROVIDED AS AN ALTERNATIVE TO EROSION CONTROL BLANKET
 NOT TO SCALE



ENTRANCE ACCESS SAWCUT & MATCH
 NOT TO SCALE

R.I.D.O.T. APPROVED



NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION T.15 OF THE STANDARD SPECIFICATIONS.
 2. PARKING SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30° NOR MORE THAN 45° WITH A LINE PARALLEL TO FLOW OF TRAFFIC, 1'-6" (1" MIN.) FROM EDGE OF CURB FACE.

PARKING SIGN MOUNTING DETAIL
 NOT TO SCALE

R.I. STANDARD 24.6.0

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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LEONARD R. BRADLEY, JR.
 No. 6610
 REGISTERED PROFESSIONAL ENGINEER
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NOTE:
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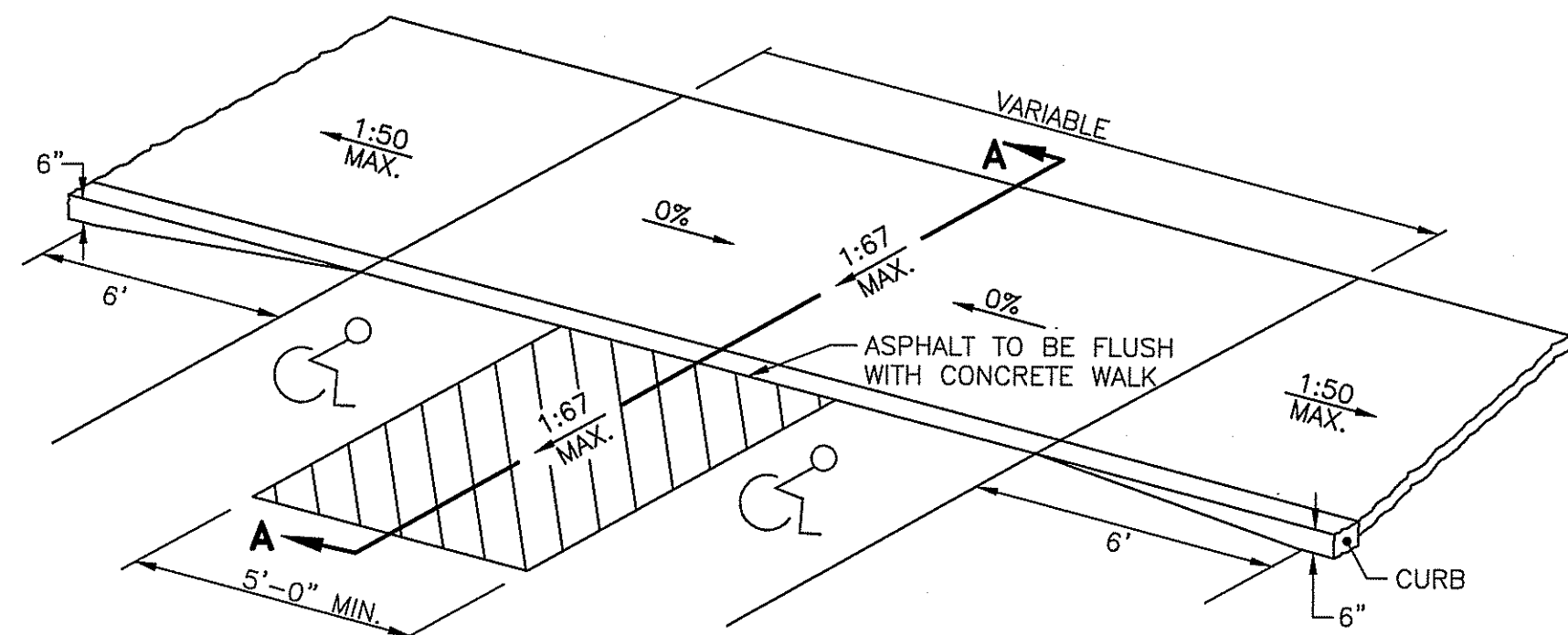
PARKING LOT DETAILS 1
Middle Road Office Park
 ASSESSOR'S PLAT 11H LOT 499
 EAST GREENWICH, RHODE ISLAND

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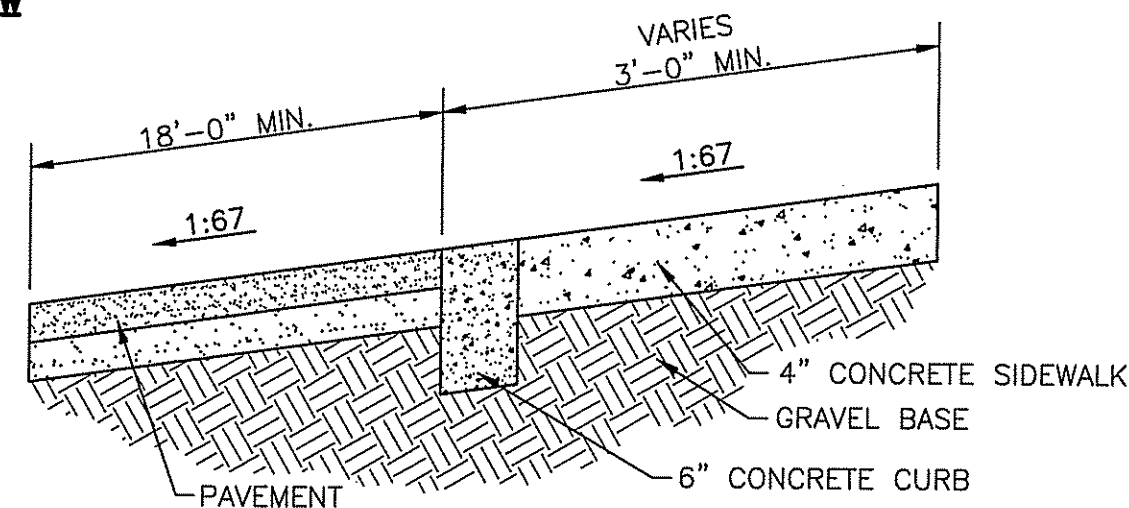
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Middle Road Enterprises, LLC
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MAY, 2007
 DWN. BY: S.A.B.

SHEET 9 OF 12



ISOMETRIC VIEW
NOT TO SCALE



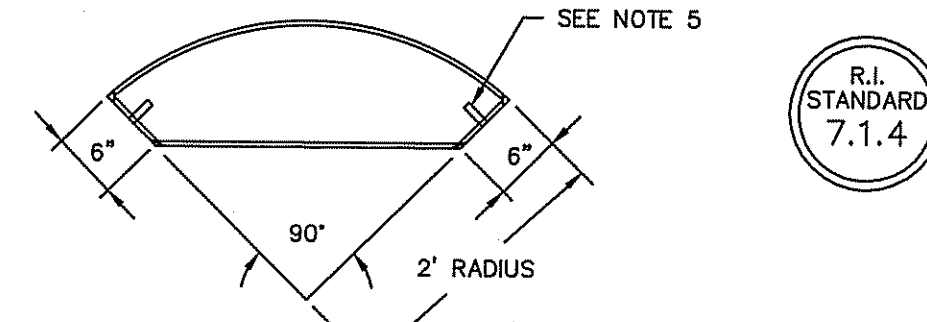
SECTION A-A
NOT TO SCALE

NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTION 904 OF THE R.I. STANDARD SPECIFICATIONS.
2. WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, THE WHEELCHAIR ACCESS AREA WILL BE PLACED SUCH THAT THE OBSTRUCTION FALLS OUTSIDE OF THE ACCESS AREA.
3. AT NO TIME IS ANY PART OF THE WHEELCHAIR ACCESS AREA TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
4. DRAINAGE FACILITIES ARE TO BE LOCATED UP-GRADE OF ALL WHEELCHAIR ACCESS AREAS.
5. LOCATION OF WHEELCHAIR ACCESS AREAS IS AS SHOWN ON CONTRACT DRAWINGS.
6. IN NO INSTANCE SHALL THE SIDEWALK CROSS SLOPE EXCEED 1:50 EXCEPT WITHIN THE ACCESS AREA.
7. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 3'-0" SHALL BE MAINTAINED.
8. HANDICAPPED ACCESSIBLE STALLS AND LOADING AREA SHALL NOT EXCEED A SLOPE OF 1:50 IN ANY DIRECTION.
9. IN NO CASE, WHERE A STOP LINE IS WARRANTED, SHALL AN ACCESS AREA BE PLACED BEHIND THE STOP LINE.
10. THE ENTRANCE OF THE WHEELCHAIR ACCESS AREA SHALL BE FLUSH WITH THE PAVEMENT.
11. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
12. ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.

WHEELCHAIR ACCESS

NOT TO SCALE



NOTES:

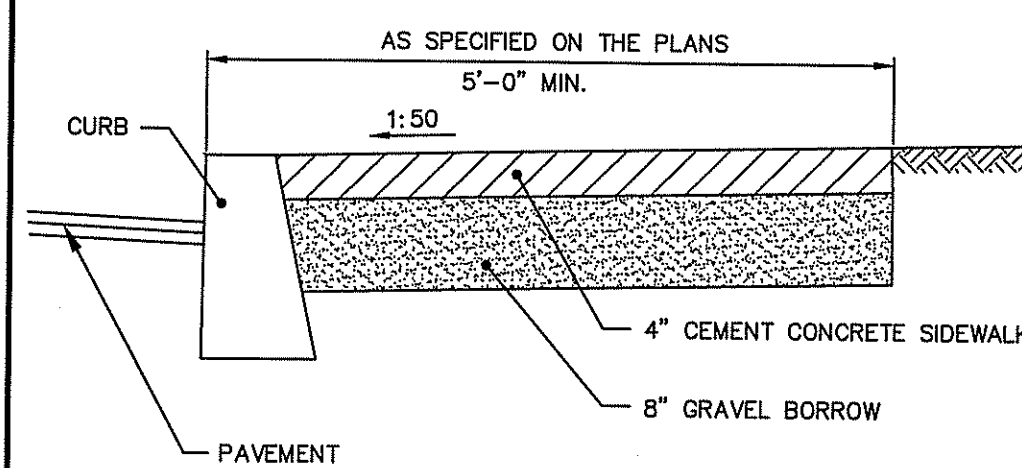
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
2. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
3. NO REINFORCEMENT REQUIRED.
4. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.
5. SEE STD. 7.1.0 FOR DOWEL SOCKET LOCATION.

**PRECAST CONCRETE
2' RADIUS CORNER**

NOT TO SCALE

NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTION 904 OF THE R.I. STANDARD SPECIFICATIONS.
2. FOR CURB SETTING DETAIL REFERENCE STD. 7.6.0.

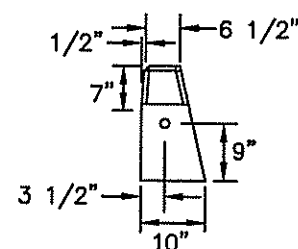


CEMENT CONCRETE SIDEWALK

NOT TO SCALE

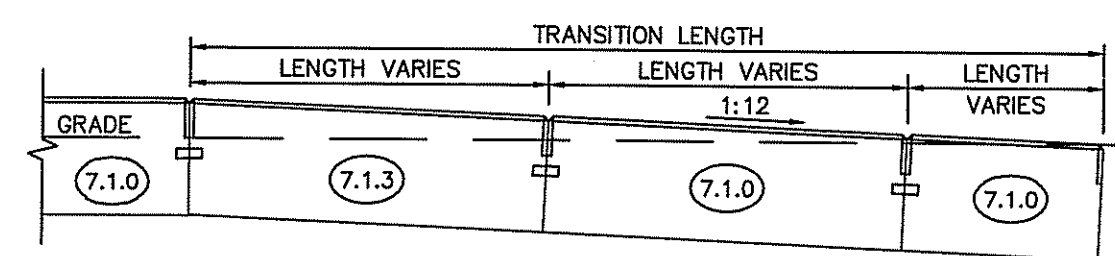
NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
2. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADI OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.
3. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.
4. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
5. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR CURB FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).



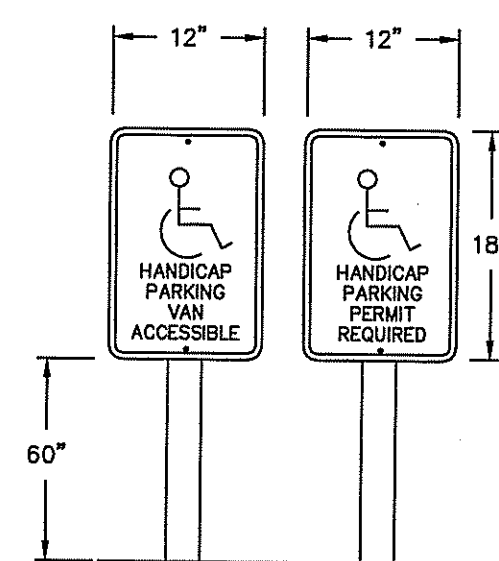
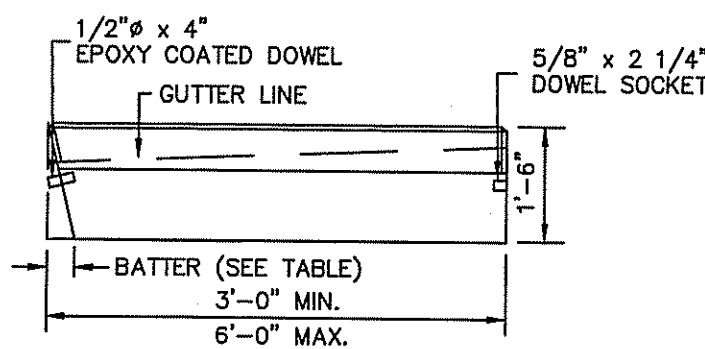
TRANSITION LENGTH (FT.)	BATTER (IN.)
6.0	1.5
7.0	1.3
8.0	1.2
9.5	1.0
11.5	0.8
15.0	0.6
18.0	0.5

R.I. STANDARD
7.1.3



PRECAST CONCRETE WHEELCHAIR RAMP TRANSITION CURB

NOT TO SCALE



**TYPICAL HANDICAPPED
PARKING POST & SIGN**

NOT TO SCALE

NOTES:

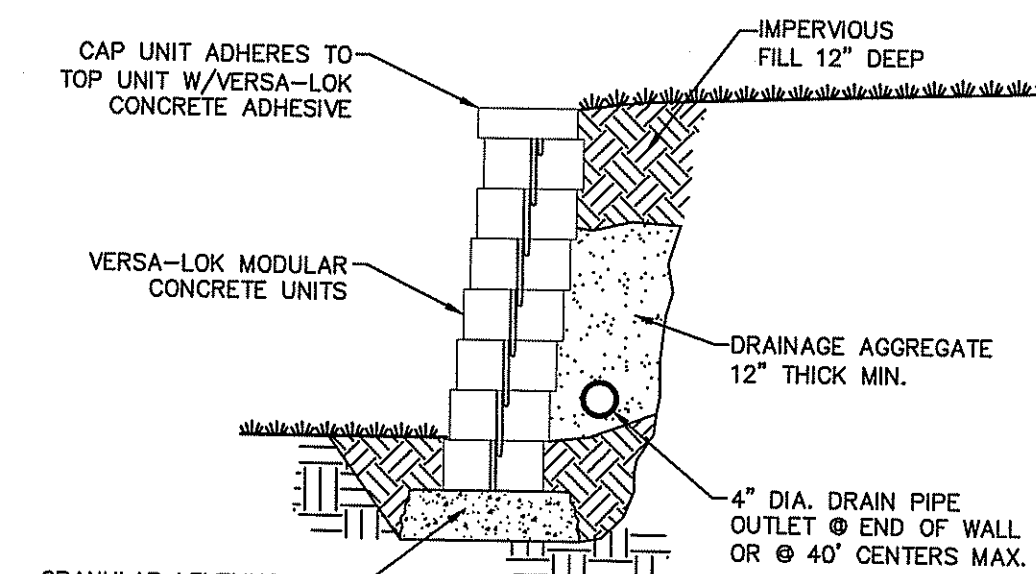
1. SIGN SHALL BE PLACED BEHIND APPLICABLE VAN ACCESSIBLE OR HANDICAP SPACE AS SHOWN ON SIGNAGE PLAN.
2. HANDICAP PARKING SPACES AND SIGNAGE SHALL COMPLY WITH ADA ACCESSIBILITY GUIDELINES (ADAAG) SECTION 4 BY THE U.S. DEPARTMENT OF JUSTICE OR THE R.I. BUILDING CODE, WHICHEVER STANDARD CONTROLS.

RETAINING WALL INSTALLATION NOTES:

1. STRIP VEGETATION AND ORGANIC SOIL FROM WALL AND GEOSYNTHETIC ALIGNMENT.
2. BENCH CUT ALL EXCAVATED SLOPES.
3. DO NOT EXCAVATE BEYOND EXCAVATION LINES SHOWN ON PLAN UNLESS DIRECTED BY SITE SOILS ENGINEER TO REMOVE UNSUITABLE SOIL.
4. CONTRACTOR SHALL ENSURE TEMPORARY EXCAVATIONS ARE STABLE AND PROVIDE EXCAVATION SUPPORT IF NEEDED.
5. SITE SOILS ENGINEER SHALL VERIFY FOUNDATION SOILS AS BEING COMPETENT PER THE DESIGN PARAMETERS.
6. LEVELING PAD SHALL CONSIST OF WELL GRADED ROAD BASE AGGREGATE, 3/4" CRUSHED, ANGULAR GRAVEL WITH SOME FINES.
7. CONTRACTOR MAY OPT FOR A LEAN CONCRETE LEVELING PAD. PAD SHALL BE UNREINFORCED LEAN CONCRETE, 200-300 PSI, 3" THICK MAXIMUM.
8. DRAINAGE AGGREGATE SHALL CONSIST OF CLEAN ANGULAR GRAVEL, 3/4" DIAMETER WITH LESS THAN 5% FINES.
9. DRAINAGE PIPE SHALL BE PERFORATED OR SLOTTED PVC OR CORRUGATED HDPE PIPE.
10. REINFORCED BACKFILL SHALL BE FREE OF DEBRIS, ORGANIC SOIL, AND EXPANSIVE SOILS.
11. FOR UNITS TO BE EMBEDDED, COMPACT FILL IN FRONT OF UNITS AT THE SAME TIME FILL BEHIND UNITS IS COMPACTED.
12. COMPACTION SHALL BE TO 95% OF MAXIMUM STANDARD PROCTOR DENSITY. (ASTM D-698)
13. COMPACTION TESTS SHALL BE TAKEN AS THE WALL IS INSTALLED. THE MINIMUM NUMBER OF TESTS SHALL BE DETERMINED BY THE SITE SOILS ENGINEER.
14. COMPACTION WITHIN 3FT. OF WALL SHALL BE LIMITED TO HAND OPERATED EQUIPMENT.
15. CONTRACTOR SHALL SLOPE SITE GRADES TO DIRECT SURFACE RUNOFF AWAY FROM WALL AT END OF EACH DAY TO AVOID WATER DAMAGING THE WALL WHILE UNDER CONSTRUCTION.
16. ANY SURFACE DRAINAGE FEATURES, FINISH GRADING, PAVEMENT, OR TURF SHALL BE INSTALLED IMMEDIATELY AFTER WALL IS COMPLETED.
17. FOLLOW APPLICABLE PROVISIONS OF THE WALL UNIT AND GEOSYNTHETIC MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WRITTEN SPECIFICATIONS.
18. IF SITE AND SOIL CONDITIONS, WALL GEOMETRY, OR WALL LOADINGS ARE DIFFERENT THAN IN THE DRAWINGS AND THE DESIGN PARAMETERS, THE CONTRACTOR MUST CONTACT DESIGN ENGINEER PRIOR TO PROCEEDING WITH THE CONSTRUCTION OF THE WALL.
19. UNREINFORCED HEIGHT TO 4' ONLY.
20. CONSTRUCTION TO PROVIDE SHOP DRAWING TO ENGINEERING FOR APPROVAL PRIOR TO CONSTRUCTION.

NOTES:

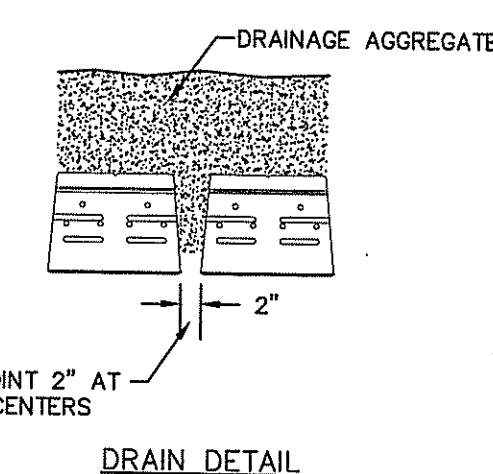
- **FINAL SHOP DRAWINGS TO BE PROVIDED TO ENGINEER FOR APPROVAL**
- THERE ARE NO WALLS GREATER THAN 4' TALL PROPOSED. WALLS OVER 4' REQUIRE ADDITIONAL DESIGN BY OTHERS.



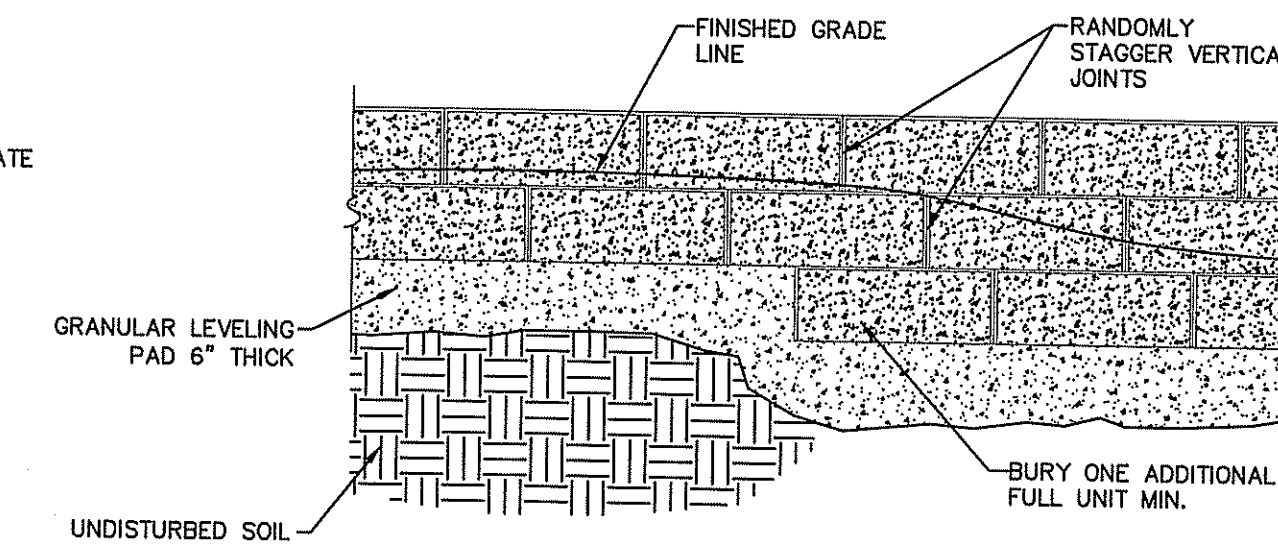
TYPICAL SECTION-UNREINFORCED RETAINING WALL

STEPPING NOTES:

- LIMIT CHANGES IN BASE ELEVATION TO 6" PER STEP TO AVOID DIFFERENTIAL SETTLEMENT.
- STEP OFTEN ENOUGH TO MAINTAIN MINIMUM REQUIRED EMBEDMENT



DRAIN DETAIL



STEPPING BASE DETAIL

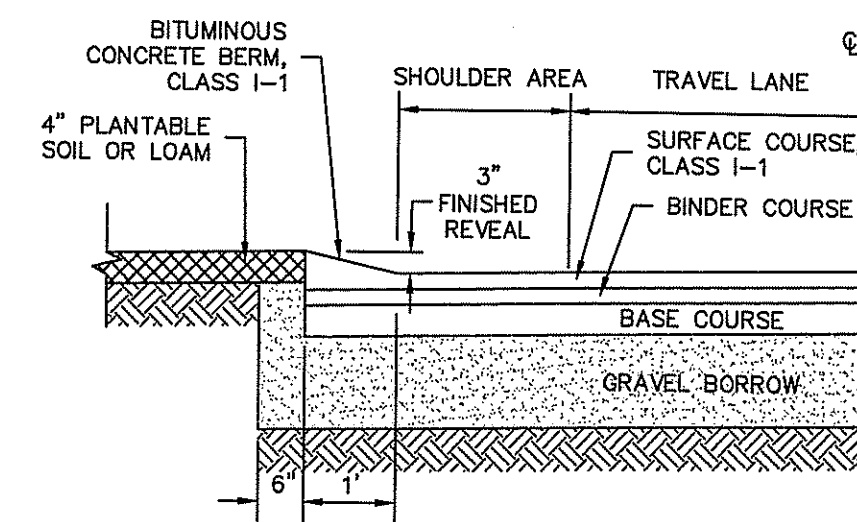
**VERSALOK
UNREINFORCED RETAINING WALL UP TO 4'**

NOT TO SCALE

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.

R.I. STANDARD
7.5.1



**CONSTRUCTION METHOD A
BITUMINOUS BERM**

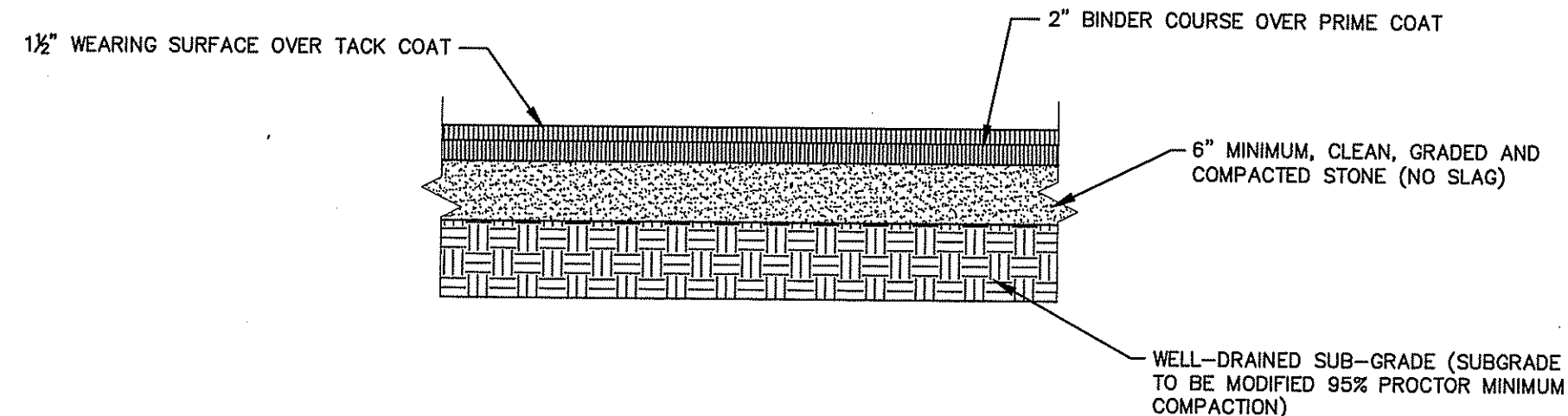
NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 25 2008 FILE # 07-0261
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Walker

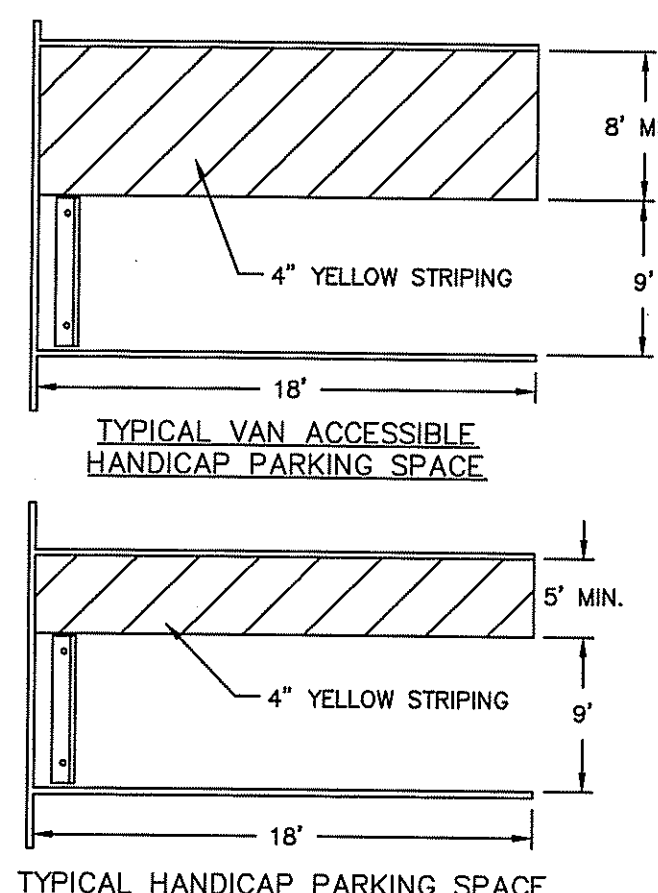
NOTES:

1. THIS PAVEMENT SECTION DETAIL REFLECTS MINIMUM REQUIREMENTS. ENGINEER TO DETERMINE DESIGN BASED ON GEO-TECHNICAL DATA OF SPECIFIC PROJECT AND DAILY TRAFFIC DESIGN REQUIREMENT.



TYPICAL PAVEMENT SECTION

NOT TO SCALE

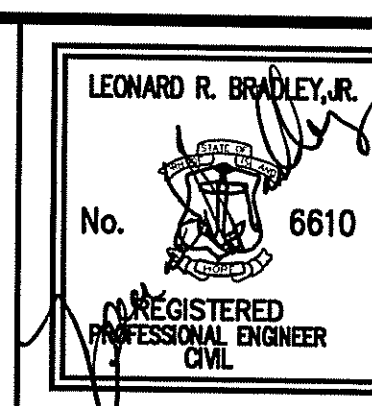


TYPICAL HANDICAP PARKING SPACES

NOT TO SCALE

NOTE:
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JUN 23 2008



PARKING LOT DETAILS 2

Middle Road Office Park

ASSESSOR'S PLAT 11H LOT 499
EAST GREENWICH, RHODE ISLAND

PREPARED BY
DiPrete Engineering Associates, Inc.
ENGINEERING, SURVEYING AND PLANNING CONSULTANTS

TWO STAFFORD COURT
CRANSTON, R.I. 02920
(401) 943-1000 FAX: (401) 464-6006

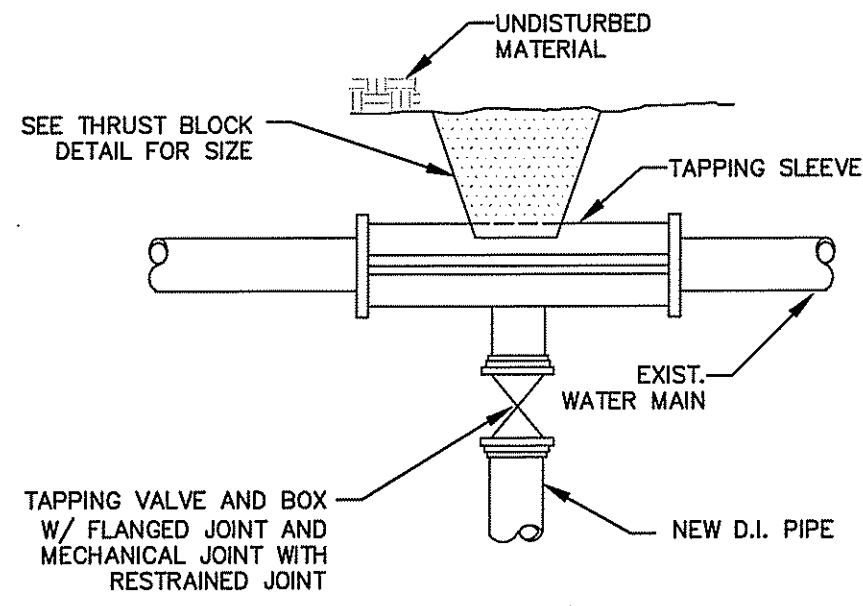
PREPARED FOR
Middle Road Enterprises, LLC
8899 POST ROAD
NORTH KINGSTOWN, R.I. 02852

NO.	DATE	DESCRIPTION	BY
2	6-18-08	REDEMPT PD RESUBMISSION	B.D.C.
1	2-25-08	REDEMPT PD RESUBMISSION	B.D.C.
0	1-16-07	REDEMPT PD RESUBMISSION	S.A.B.

MAY 2007
DWN. BY: S.A.B.

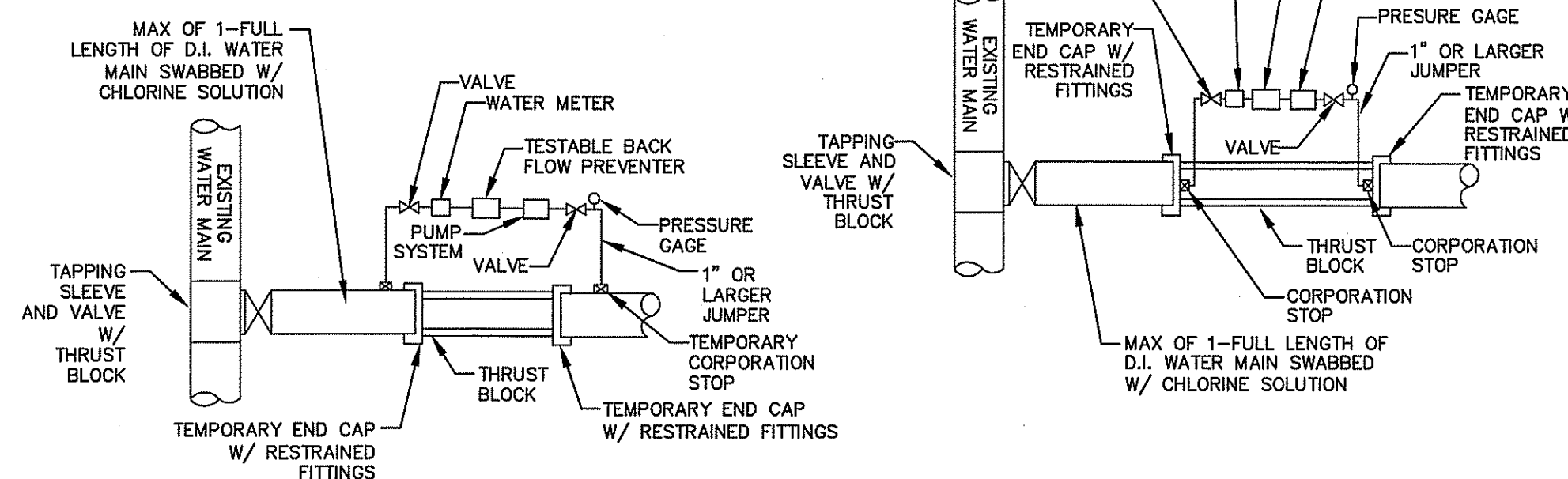
SHEET 10 OF 12

NOTES:
 1. TAPPING SLEEVE AND VALVE TO BE SWABBED WITH CHLORINE SOLUTION.
 2. FROM KENT COUNTY WATER AUTHORITY DETAIL DATE: 2/2004



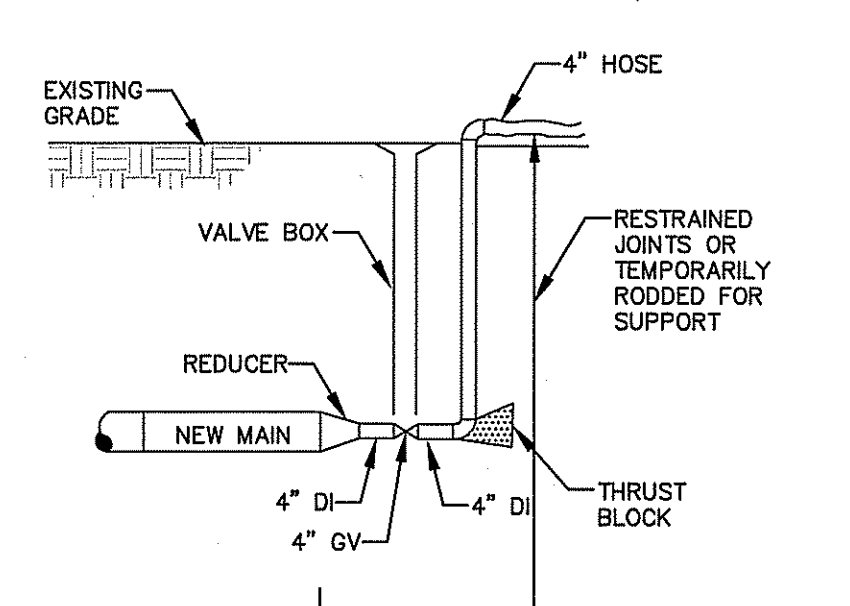
KCWA TAPPING SLEEVE AND VALVE
 NOT TO SCALE

NOTES:
 1. UPON SUCCESSFUL TESTING AND DISINFECTION THE TEMPORARY CORPORATION STOPS SHALL BE REMOVED AND PLUGS INSTALLED.
 2. SLEEVE FOR CLOSURE TO BE SWABBED WITH CHLORINE SOLUTION
 3. FROM KENT COUNTY WATER AUTHORITY DETAIL DATE: 2/2004

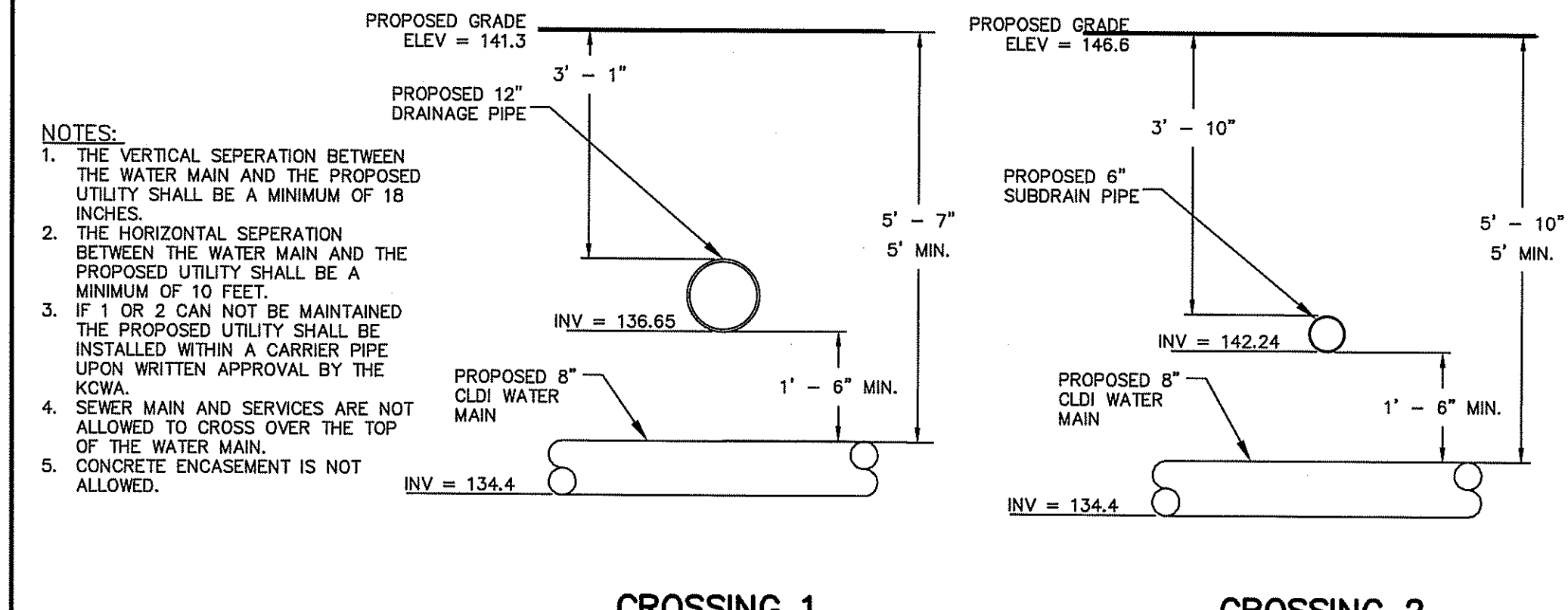


KCWA TEMPORARY CONNECTION FOR PRESSURE TESTING AND DISINFECTION
 NOT TO SCALE

NOTES:
 1. AFTER THE COMPLETION OF THE FINAL FLUSHING THE CONTRACTOR SHALL REMOVE THE TEMPORARY FLUSHING CONNECTION AND CONNECT THE NEW WATER TO THE EXISTING WATER MAIN ALL PIPING AND FITTING SHALL BE DISINFECTED TO THE SATISFACTION OF THE KCWA.
 2. FROM KENT COUNTY WATER AUTHORITY DETAIL DATE: 2/2004

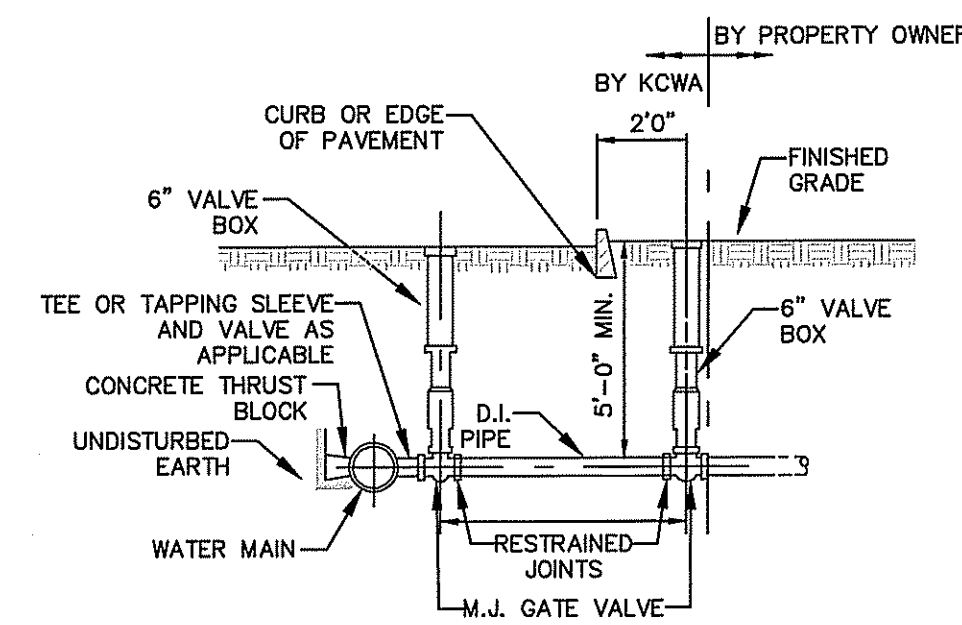


KCWA TEMPORARY FLUSHING CONNECTION
 NOT TO SCALE



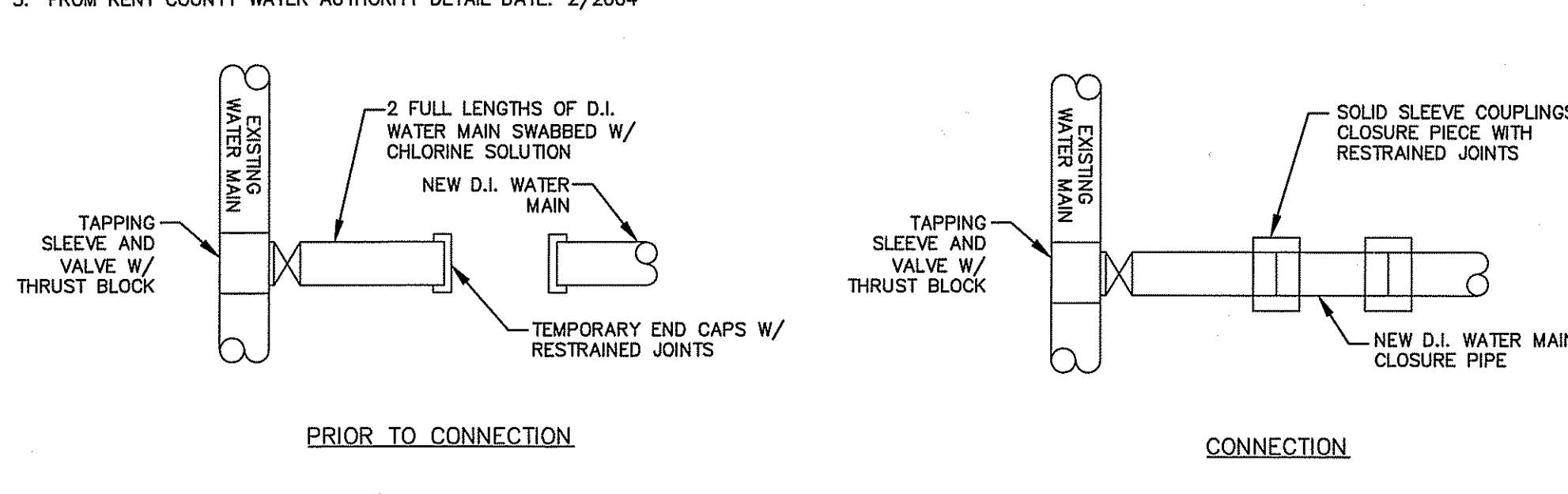
CROSSING 1
 1\"/>
CROSSING 2
 1\"/>
WATERLINE CROSSINGS CROSS-SECTION

NOTES:
 1. MATERIALS PER KCWA SPECIFICATIONS
 2. FROM KENT COUNTY WATER AUTHORITY DETAIL DATE: 2/2004



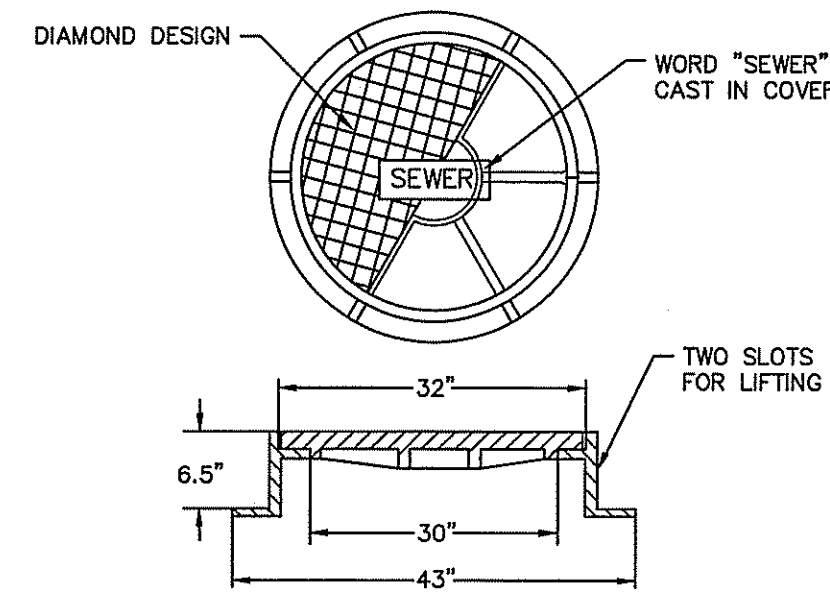
KCWA SERVICE CONNECTION GREATER THAN 4 INCHES
 NOT TO SCALE

NOTES:
 1. PRIOR TO FINAL APPROVAL FOR PERMANENT CONNECTION FROM KCWA, CONTRACTOR SHALL PERFORM PRESSURE TESTING AND CHLORINATION.
 2. SLEEVE FOR CLOSURE TO BE SWABBED WITH CHLORINE SOLUTION
 3. FROM KENT COUNTY WATER AUTHORITY DETAIL DATE: 2/2004



KCWA CONNECTION OF NEW WATER MAIN TO EXISTING WATER MAIN
 NOT TO SCALE

NOTES:
 1. DETAIL REPLICATED FROM "TOWN OF WEST WARWICK WASTE WATER DIVISION STANDARD SANITARY SEWER REQUIREMENTS" WW-8, DATED APRIL 1, 1994.
 2. APPROVED SEWER MANHOLE FRAME AND COVER SHALL BE LEBARON MODEL LC327-2 OR APPROVED EQUAL.



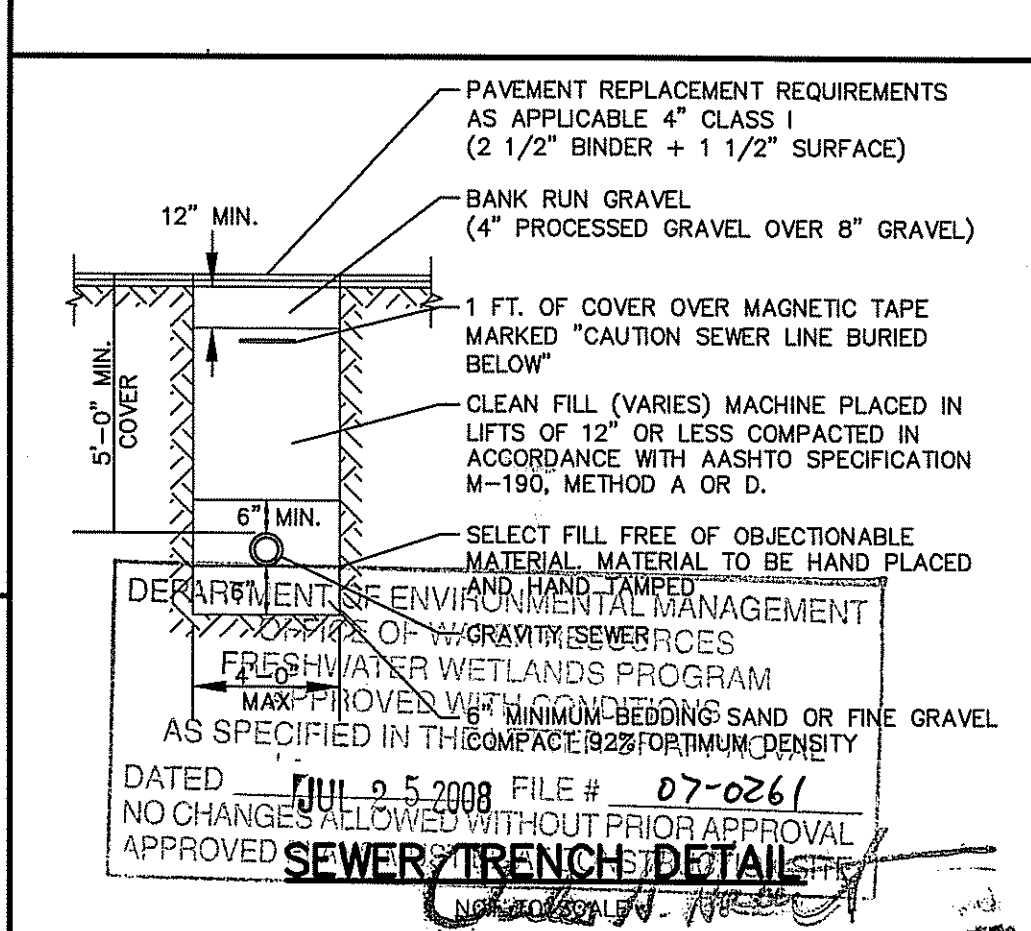
SANITARY MANHOLE FRAME & COVER DETAIL
 NOT TO SCALE

SEWER LINE/WATER MAIN SEPARATION POLICY FOR DESIGN OF SANITARY SEWERS

1.0 PURPOSE
 1. THE DETAILED CONSTRUCTION SEQUENCE IS PROVIDED FOR THE PROPOSED SEWER FORCE MAIN EXTENSION. THE CONSTRUCTION SEQUENCE IS DIVIDED INTO INCLUDING SITE PREPARATION, SEWER AND WATER MAIN, THE CONSTRUCTION SEQUENCE PROVIDES THE GREATEST LEVEL OF PROTECTION TO THE EXISTING ARBITRATING WETLAND AND STREAM AREA WEST AND NORTH OF THE AREA UTILIZED FOR THE SEWER AND WATER ROUTE.
 2.0 SITE PREPARATION AND CONSTRUCTION EQUIPMENT
 1. THE CONSTRUCTION SEQUENCE AND EQUIPMENT ARE USED FOR CONSTRUCTION OF THE SEWER FORCE MAIN AND WATER MAIN.
 2.1 SITE PREPARATION:
 1. CONSTRUCTION OF THE SEWER MAIN WITH PERMETER AND FRESHWATER WETLANDS TO OCCUR UPON RECEIPTS OF THE REQUIRED APPROVALS.
 NOTE: THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY IF THE SITE CONDITIONS ENCOUNTERED IMPACT THE CONSTRUCTION SEQUENCE DETAILED.
 2. SURVEY AND FLAG THE LIMIT OF WORK.
 3. CLEAR AND TRIM EXISTING BRUSH WITHIN THE LIMIT OF WORK. NO TREES BEYOND THE LIMIT OF WORK SHALL BE REMOVED WITH THE EXCEPTION OF BRANCHES OVERHANGING THE CONSTRUCTION AREA THAT MAY NEED TO BE TRIMMED TO ALLOW FOR SAFE EQUIPMENT OPERATION. CHIP AND REMOVE ALL BRANCHES AND BRUSH. DISCARD CHIPS TO UPLAND LOCATION ONLY.
 NOTE: NO HEAVY EQUIPMENT IS ALLOWED WITHIN THE PERMETER OR FRESHWATER WETLANDS DURING THE SITE PREPARATION PHASE OF THE CONSTRUCTION SEQUENCE.
 4. PLACE HAY BALES OR SILT FENCE AND STAKE ACCORDING TO THE PLAN DETAILS.
 5. PRIOR TO CONSTRUCTION COMMENCEMENT, THE DESIGN ENGINEER SHALL INSPECT THE EROSION CONTROLS AND LIMIT OF WORK. FOLLOWING THIS INSPECTION, A LETTER OF FINDINGS WILL BE SUBMITTED TO ROBIN OFFICE OF WATER RESOURCES.
 2.2 CONSTRUCTION EQUIPMENT
 1. AN EXCAVATOR WILL BE USED TO EXCAVATE SEWER AND WATER TRENCH, PLACE SEGMENTS, LAY BEDDING MATERIALS, AND BACKFILL TRENCHES. A NARROW BUCKET (2') SHALL BE USED FOR THE SEWER AND WATER CONSTRUCTION.
 2. ONE BACKHOE OR SMALL LOADER TO FEED BEDDING MATERIALS FROM PROPOSED STOCKPILE LOCATIONS FOR PIPE PLACEMENT OR TO REMOVE EXCESS EXCAVATED MATERIALS NOT NEEDED TO BACKFILL TRENCHES FOLLOWING PIPE PLACEMENT. OPTION TO USE A DUMP TRUCK IF SITE CONDITIONS ARE DRY AND PERMIT ITS ACCESSIBILITY TO THE AREAS UNDER CONSTRUCTION.
 3. NARROW, SMALL SIZE BULLDOZER TO GRADE FINISHED TRENCH AND LOAM TO ORIGINAL ELEVATIONS.
 3.0 GRAVITY MAIN SEWER AND WATER
 1. THE FOLLOWING CONSTRUCTION SEQUENCE IS SPECIFIC TO THE CONSTRUCTION OF THE GRAVITY FORCE MAIN.
 3.1 CONSTRUCTION PROCEDURE
 1. THE EXCAVATOR WILL EXCAVATE THE TRENCH, DEPOSIT THE BEDDING MATERIALS, AND BACKFILL THE EXCAVATION FOLLOWING PIPE PLACEMENT. DURING BACKFILLING, THE WATER AND SEWER FORCE MAIN WILL BE COVERED WITH TRACING WIRE AND DETECTABLE UNDERGROUND MARKING TAPE. THE TAPE WILL BE MARKED. THE TRENCH SPOILS WILL BE DEPOSITED AT THE OPPOSITE SIDE OF THE TRENCH WHERE THE LIMITS OF WORK ARE TOO RESTRICTIVE, OR UTILIZED TO BACKFILL INSTALLED PORTIONS OF THE TRENCH.
 2. THE SOURCE OF THE BEDDING MATERIALS FEEDING THE EXCAVATOR SHALL BE FROM A BACKHOE, SMALL LOADER, OR A DUMP TRUCK DEPENDING ON SITE CONDITIONS AND ACCESSIBILITY.
 3. DURING THE CONSTRUCTION PROCESS THE TESTING OF SEWER PIPE SHALL BE PERFORMED. ANY LEAKS ENCOUNTERED DURING TESTING WILL BE FIXED WHILE THE LIMIT OF WORK WILL BE MAINTAINED.
 NOTE: EXCESS TRENCH SPOILS WILL BE REMOVED BY DUMP TRUCK, LOADER, OR BACKHOE TO AN UPLAND LOCATION IN THE DEVELOPMENT AREA OUTSIDE OF ALL ADEQUATE JURISDICTIONAL WETLANDS.
 3.2 RESTORATION
 1. FOLLOWING ESTABLISHMENT OF VEGETATION, COLLECTED SEDIMENTS ALONG THE LIMIT OF WORK SHALL BE REMOVED WITH THE EROSION CONTROLS AND DEPOSITED IN AN UPLAND LOCATION OUTSIDE OF ALL ADEQUATE JURISDICTIONAL WETLANDS.
 2. THE DESIGN ENGINEER SHALL PERFORM SEMI-ANNUAL INSPECTIONS OF THE DISTURBED AREA UNTIL VEGETATIVE COVER IS ESTABLISHED.
 4.0 SEDIMENT REMOVAL
 1. SEDIMENTS WITHIN THE LIMIT OF DISTURBANCE MAY BE REMOVED WITH CONSTRUCTION EQUIPMENT SUCH AS A BACKHOE OR EXCAVATOR.
 2. NO REMOVAL OF SEDIMENTS BEYOND THE LIMITS OF WORK SHALL BE PERMITTED
 3. SEDIMENTS REMOVED FROM ROUTE OF THE SEWER MAIN INSTALLATION SHALL BE DISPOSED IN UPLAND LOCATIONS ONLY BEYOND RIDEM JURISDICTIONAL WETLAND AREAS.

WHERE CONDITIONS PREVENT AN 18 INCH VERTICAL SEPARATION FROM BEING MAINTAINED, THE FOLLOWING METHODS SHALL BE SPECIFIED:

- THE SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO WATERMAIN PIPE (CEMENT-LINED DUCTILE IRON PIPE, PVC OR OTHER AWWA APPROVED MATERIAL FOR POTABLE WATER CONVEYANCE) FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER-MAIN AND SEWER, IN ACCORDANCE WITH AWWA SPECIFICATIONS, OR
- EITHER THE WATERMAIN OR THE SEWER MAY BE ENCASED IN CONCRETE (MIN. 6 INCH THICKNESS) OR A CARRIER PIPE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER-MAIN. THE CARRIER PIPE SHALL BE DESIGNED AND CONSTRUCTED OF MATERIALS WHICH ARE SATISFACTORY TO THE DIVISION, OR
- ANY OTHER METHODS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER, WHICH ENSURE ADEQUATE WATER TIGHTNESS AND ARE SATISFACTORY TO THE DIVISION.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WETLAND SERVICES
 FRESHWATER WETLANDS PROGRAM
 MAXIMUM BEDDING SAND OR FINE GRAVEL
 AS SPECIFIED IN THE PLAN SHEET FOR THAT MATERIAL
 DATED JUL 9 5 2008 FILE # 07-0261
 NO CHANGE ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED SEWER TRENCH DETAIL

LEONARD R. BRADLEY, R.
 No. 6610
 REGISTERED PROFESSIONAL ENGINEER

SEWER & WATER DETAILS
Middle Road Office Park
 ASSESSOR'S PLAT 11H LOT 499
 EAST GREENWICH, RHODE ISLAND

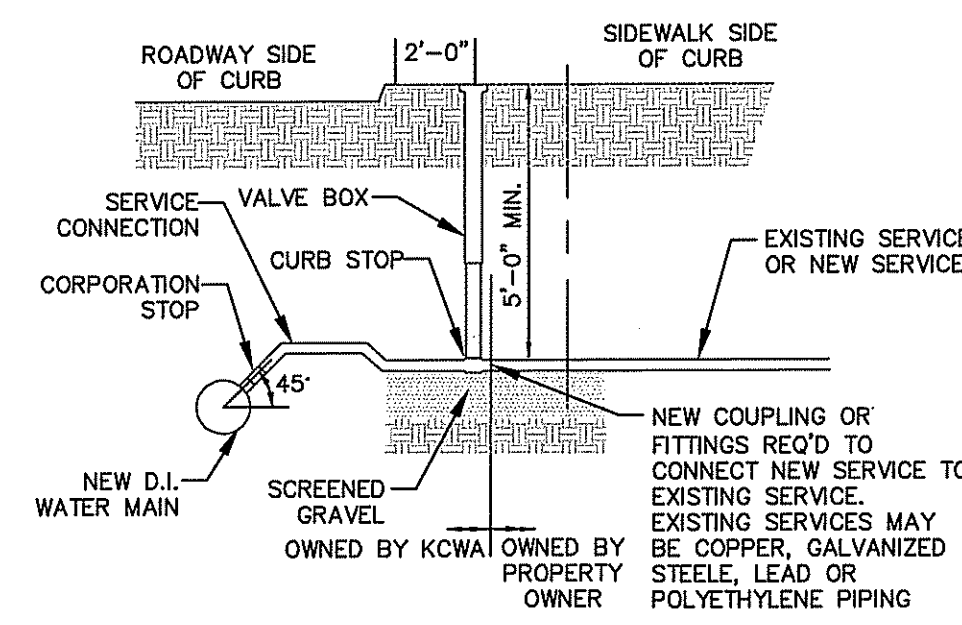
PREPARED BY
DiPrete Engineering Associates, Inc.
 ENGINEERING, SURVEYING AND PLANNING CONSULTANTS
 TWO STAFFORD COURT
 CRANSTON, R.I. 02920
 (401) 943-1000 FAX: (401) 454-6886 2 3 2008

PREPARED FOR
Middle Road Enterprises, LLC
 6899 POST ROAD
 NORTH KINGSTOWN, R.I 02852

NO.	DATE	DESCRIPTION	BY
2	6-18-08	RIDEM PD RESUBMISSION	B.D.C.
1	5-16-07	RIDEM PD SUBMISSION	S.A.B.

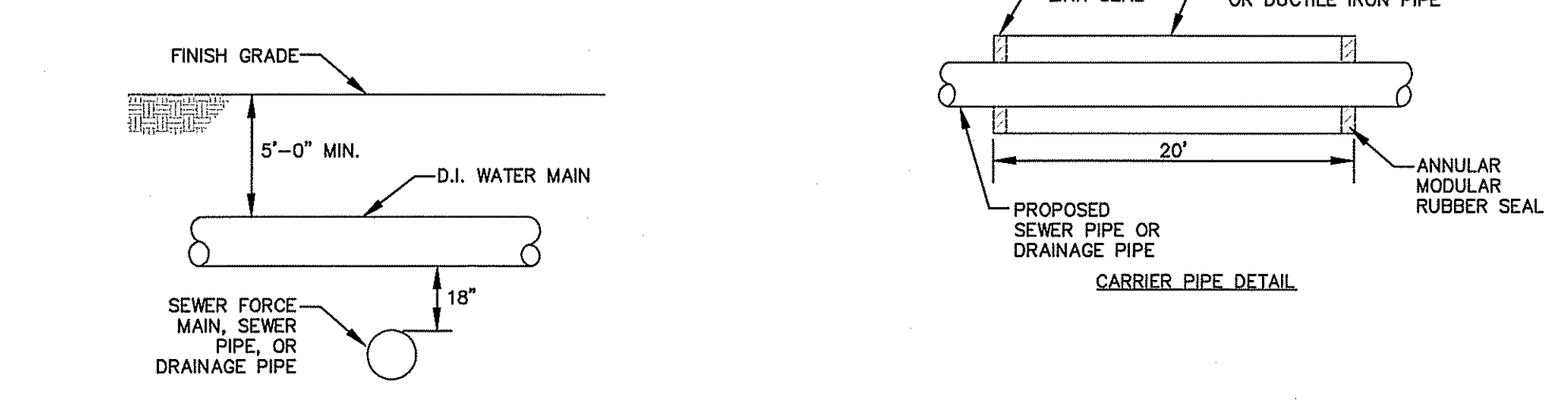
MAY 2007
 DWN. BY: S.A.B.

NOTES:
 1. SERVICE MATERIALS PER KCWA SPECIFICATION UNLESS CITY OR TOWN CODES REQUIRE SPECIFIC MATERIALS THAT HAVE BEEN APPROVED BY KCWA.
 2. SERVICE LINE FROM CURB BOX TO BUILDING SHALL BE INSPECTED, TESTED AND APPROVED BY THE LOCAL PLUMBING INSPECTOR.
 3. FROM KENT COUNTY WATER AUTHORITY DETAIL DATE: 2/2004

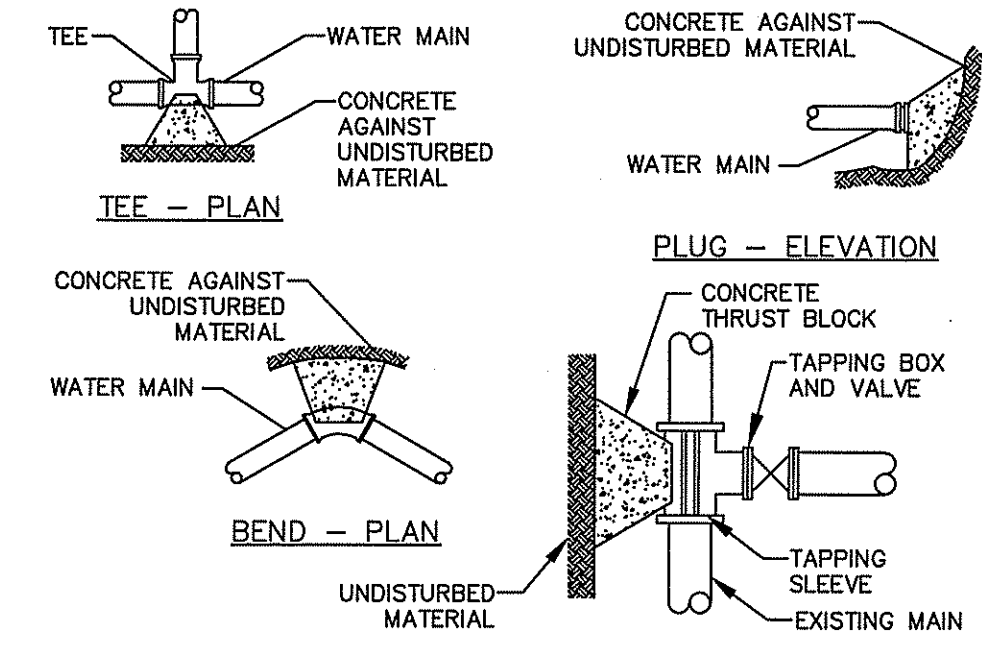


KCWA SERVICE CONNECTION
 NOT TO SCALE

NOTES:
 1. THE VERTICAL SEPARATION BETWEEN THE WATER MAIN AND THE PROPOSED UTILITY SHALL BE A MINIMUM OF 18 INCHES.
 2. THE HORIZONTAL SEPARATION BETWEEN THE WATER MAIN AND THE PROPOSED UTILITY SHALL BE A MINIMUM OF 10 FEET.
 3. IF 1 OR 2 CAN NOT BE MAINTAINED THE PROPOSED UTILITY SHALL BE INSTALLED WITHIN A CARRIER PIPE UPON WRITTEN APPROVAL BY THE KCWA.
 4. SEWER MAIN AND SERVICES ARE NOT ALLOWED TO CROSS OVER THE TOP OF THE WATER MAIN.
 5. CONCRETE ENCASEMENT IS NOT ALLOWED.
 6. FROM THE KENT COUNTY WATER AUTHORITY DATE: 2/2004



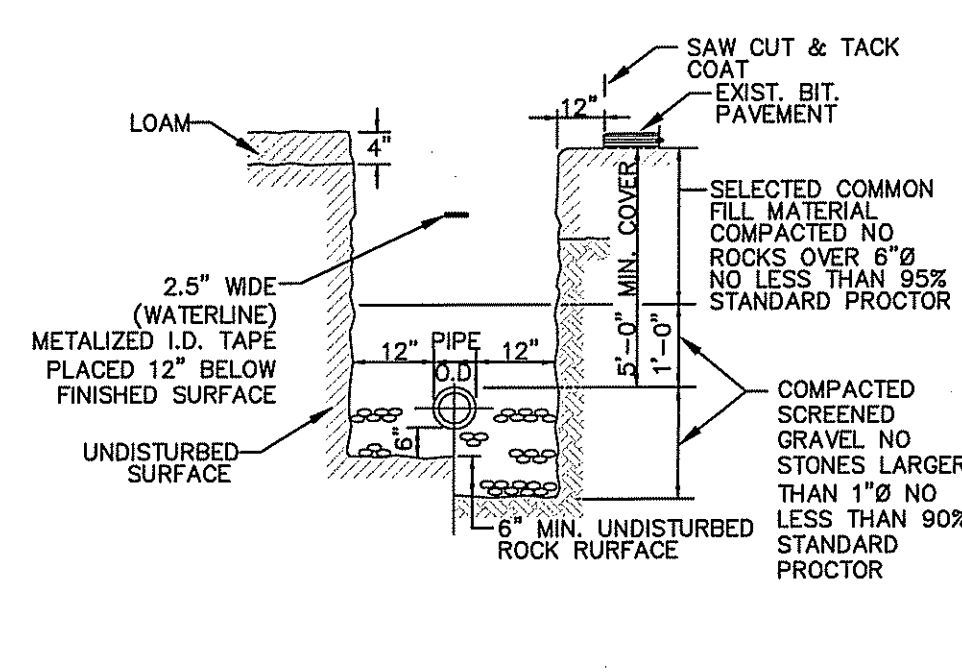
KCWA UTILITY SEPARATION
 NOT TO SCALE



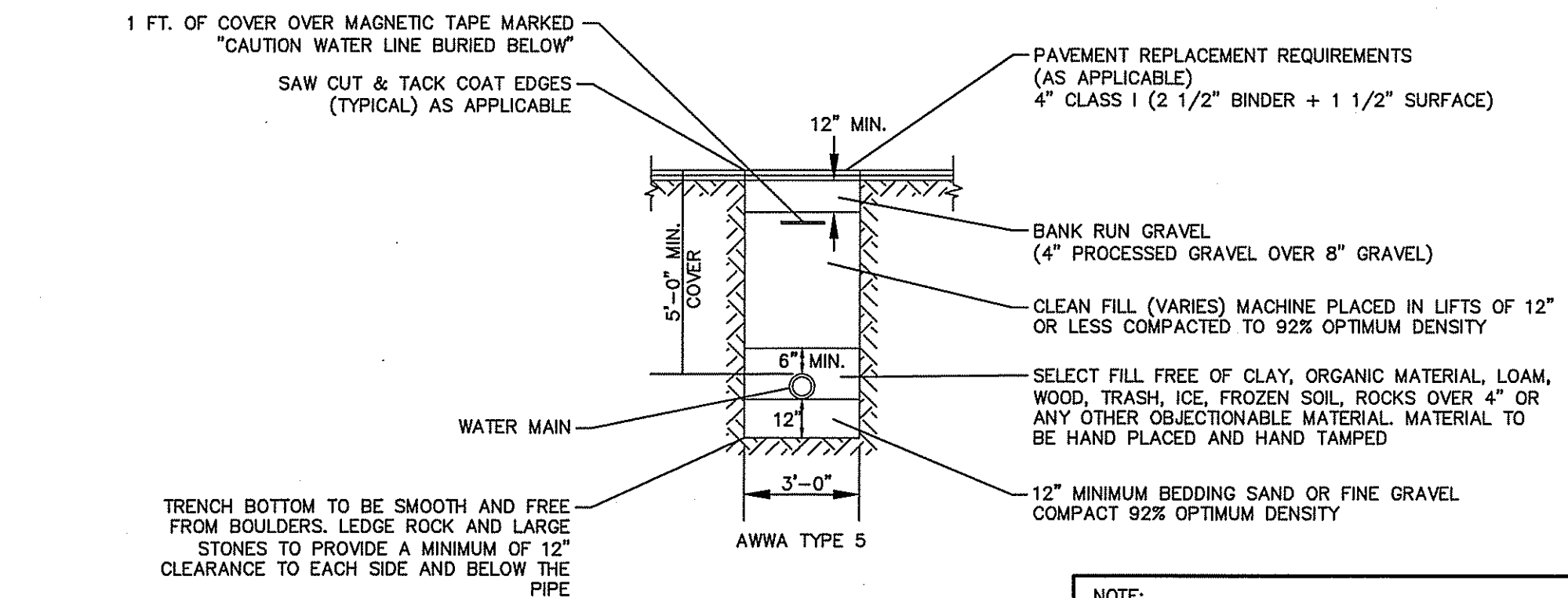
THRUST BLOCK DETAILS
 NOT TO SCALE

PIPE SIZE	45\"/>	
6"	2.5' x 2.5'	3.0' x 3.0'
8"	2.5' x 2.5'	3.0' x 3.0'

NOTE:
 1. ROADWAY RESTORATION IN ACCORDANCE WITH COMMUNITY OR RIDOT.
 2. FROM KENT COUNTY WATER AUTHORITY DETAIL DATE: 2/2004

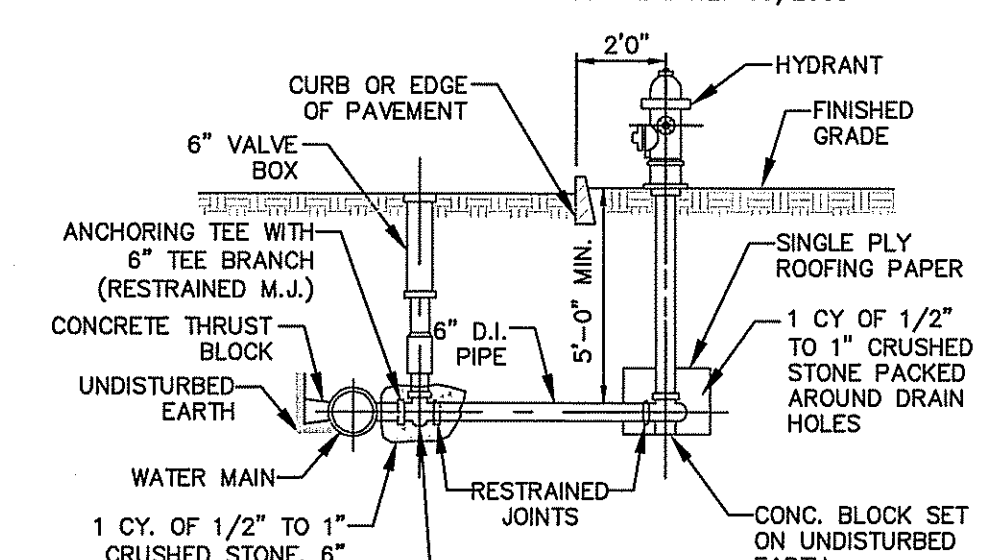


KCWA TRENCH INSTALLATION IN ROCK AND SOIL
 NOT TO SCALE



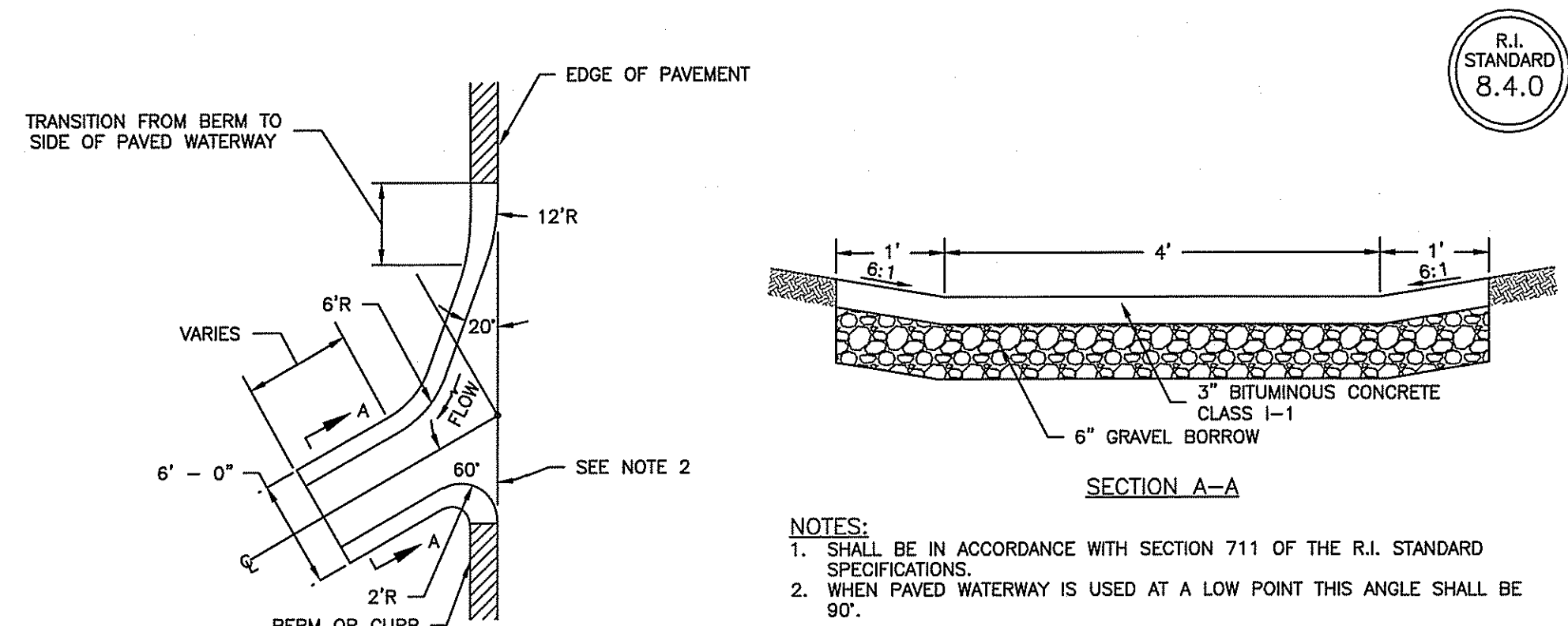
WATER TRENCH DETAIL
 NOT TO SCALE

NOTES:
 1. KCWA COLOR SCHEME FOR HYDRANT.
 2. INSTALLATION SHALL NOT OBSTRUCT SIDEWALK TO PEDESTRIAN OR PHYSICALLY IMPAIRED.
 3. REMOVAL OF EXISTING HYDRANT MAY REQUIRE ADDITIONAL RESTRAINT DESIGNED BY A PROFESSIONAL ENGINEER.
 4. MECHANICAL JOINT PIPE W/ RESTRAINED JOINTS FOR BRANCHES OVER ONE LENGTH OF PIPE.
 5. FROM KENT COUNTY WATER AUTHORITY DETAIL DATE: 09/2006

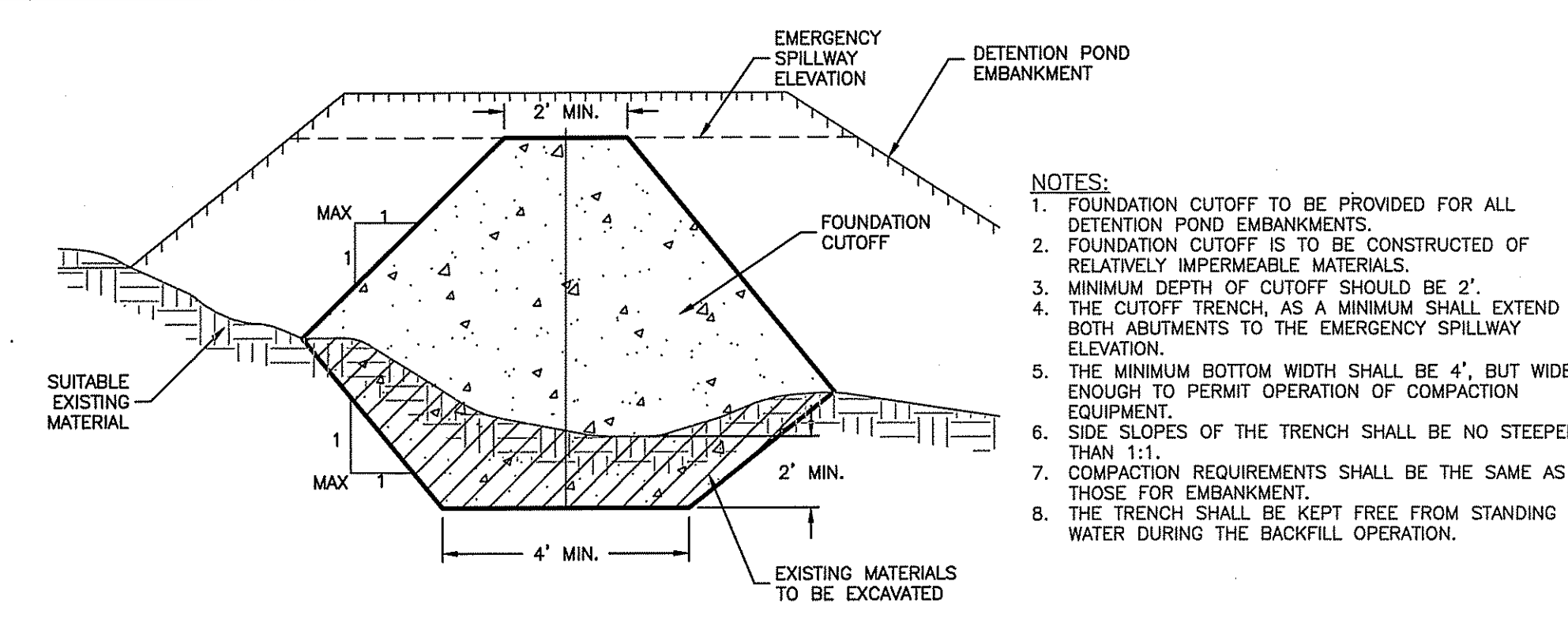


KCWA HYDRANT

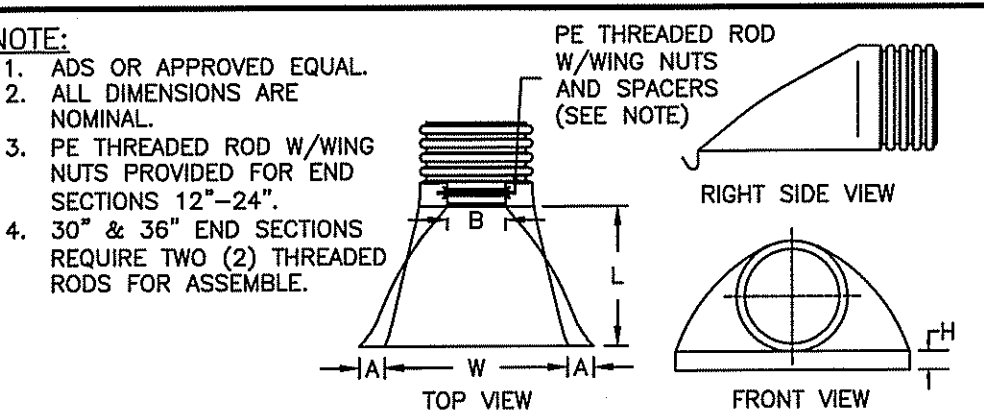
NOTE:
 THIS REGULATORY SUBMISSION SET SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS STAMPED 'ISSUED FOR CONSTRUCTION' AND SIGNED AND DATED BY A DIPRETE ENGINEERING REPRESENTATIVE



PAVED WATERWAY
NOT TO SCALE

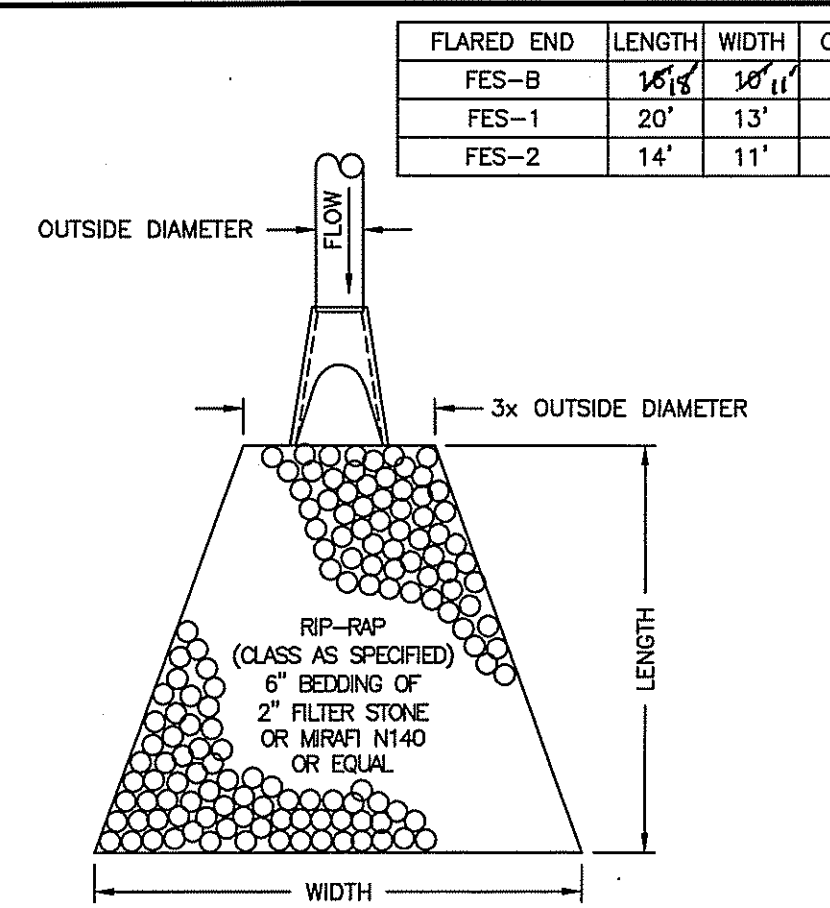


FOUNDATION CUTOFF FOR EMBANKMENT OF DETENTION POND
NOT TO SCALE

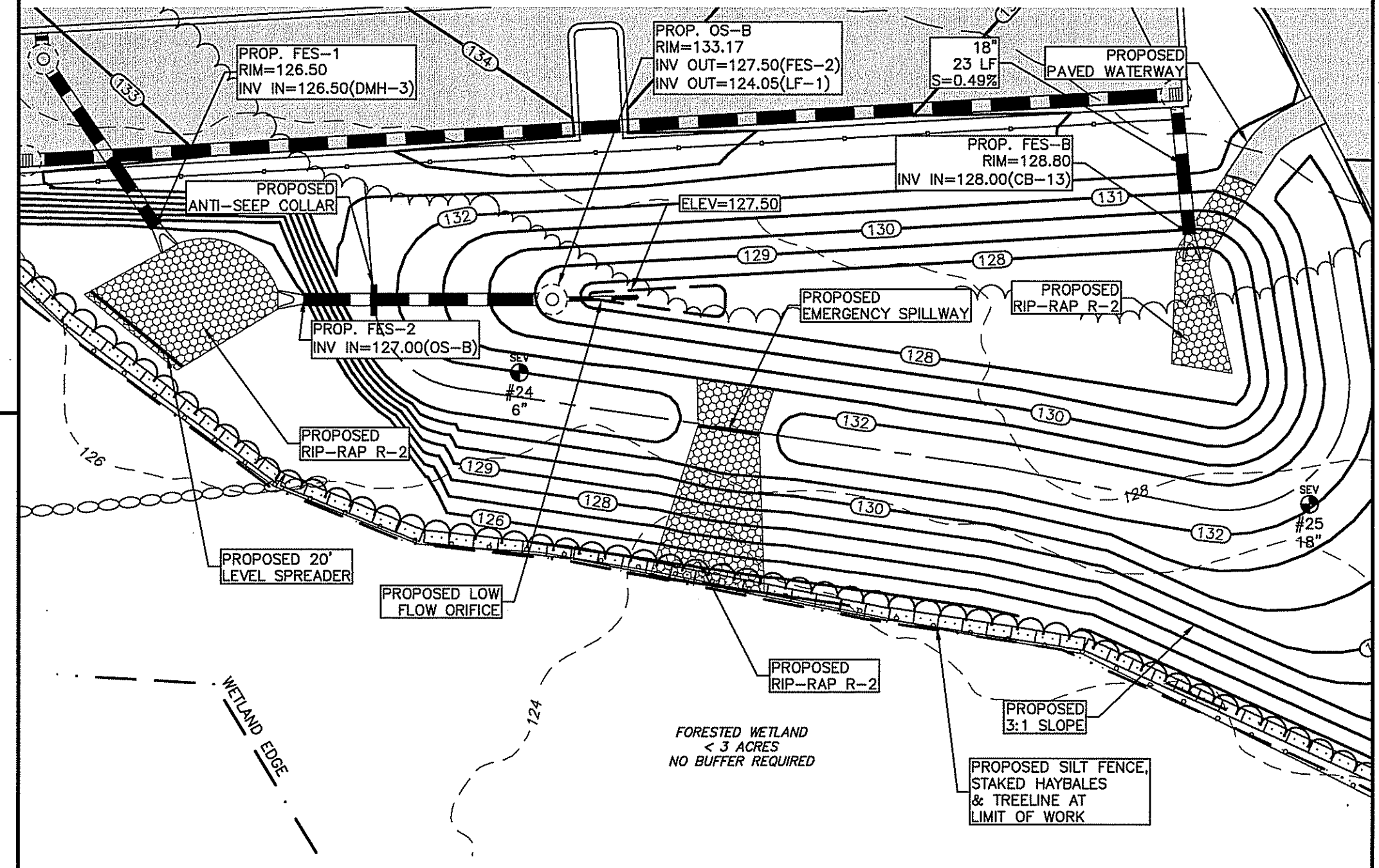


PART #	PIPE SIZE	A	B (MAX)	H	L	W
1210NP	12 IN (300 MM)	6.50 IN (165 MM)	10 IN (254 MM)	6.50 IN (165 MM)	25 IN (635 MM)	29 IN (737 MM)
1510NP	15 IN (375 MM)	6.50 IN (165 MM)	10 IN (254 MM)	6.50 IN (165 MM)	25 IN (635 MM)	29 IN (737 MM)
1810 NP	18 IN (450 MM)	7.50 IN (191 MM)	15 IN (381 MM)	6.50 IN (165 MM)	32 IN (813 MM)	35 IN (889 MM)
2410NP	24 IN (600 MM)	7.50 IN (191 MM)	18 IN (457 MM)	6.50 IN (165 MM)	36 IN (914 MM)	45 IN (1143 MM)
3015NP	30 IN (750 MM)	7.50 IN (191 MM)	12 IN (305 MM)	8.60 IN (218 MM)	58 IN (1473 MM)	63 IN (1600MM)
3615NP	36 IN (900 MM)	7.50 IN (191 MM)	25 IN (635 MM)	8.60 IN (218 MM)	58 IN (1473 MM)	63 IN (1600 MM)

HDPE FLARED END SECTION
NOT TO SCALE

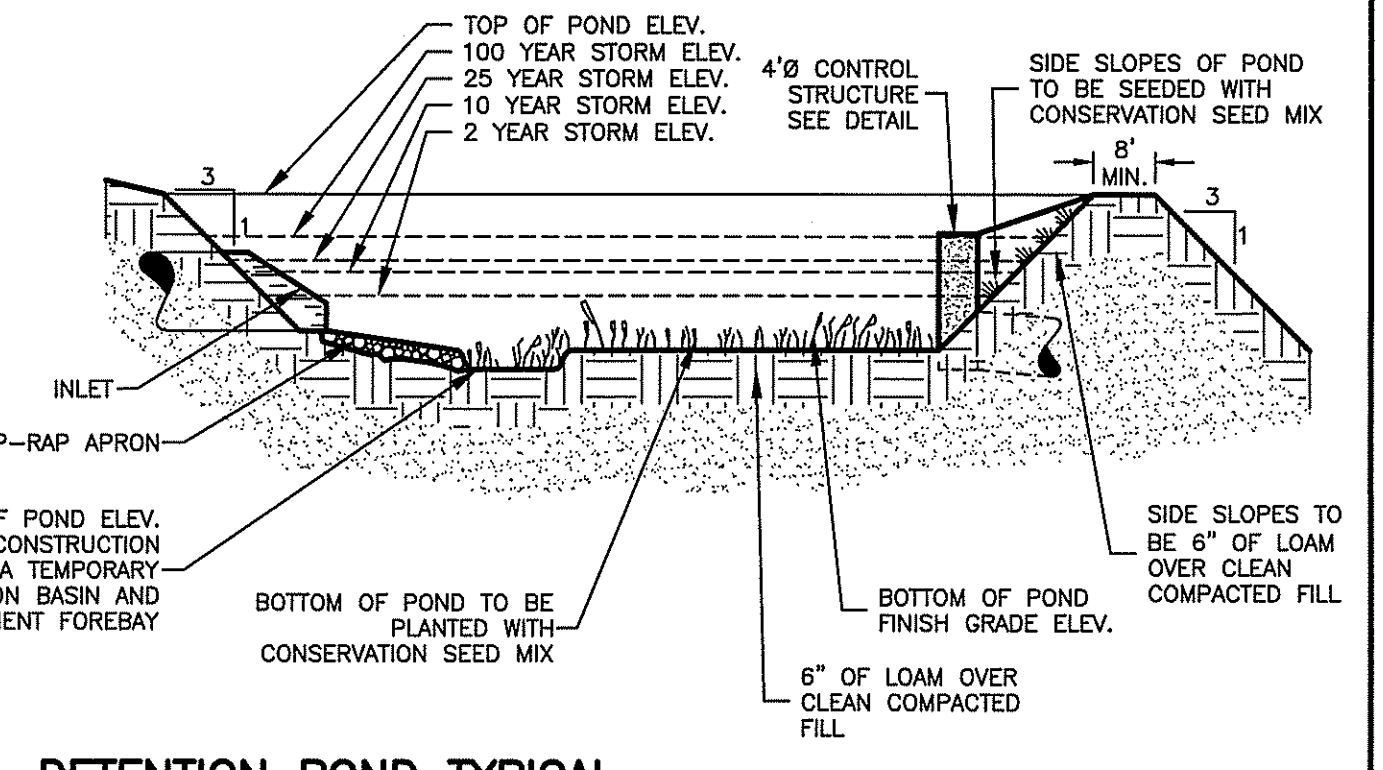


RIP-RAP APRON/ FE DETAIL
NOT TO SCALE

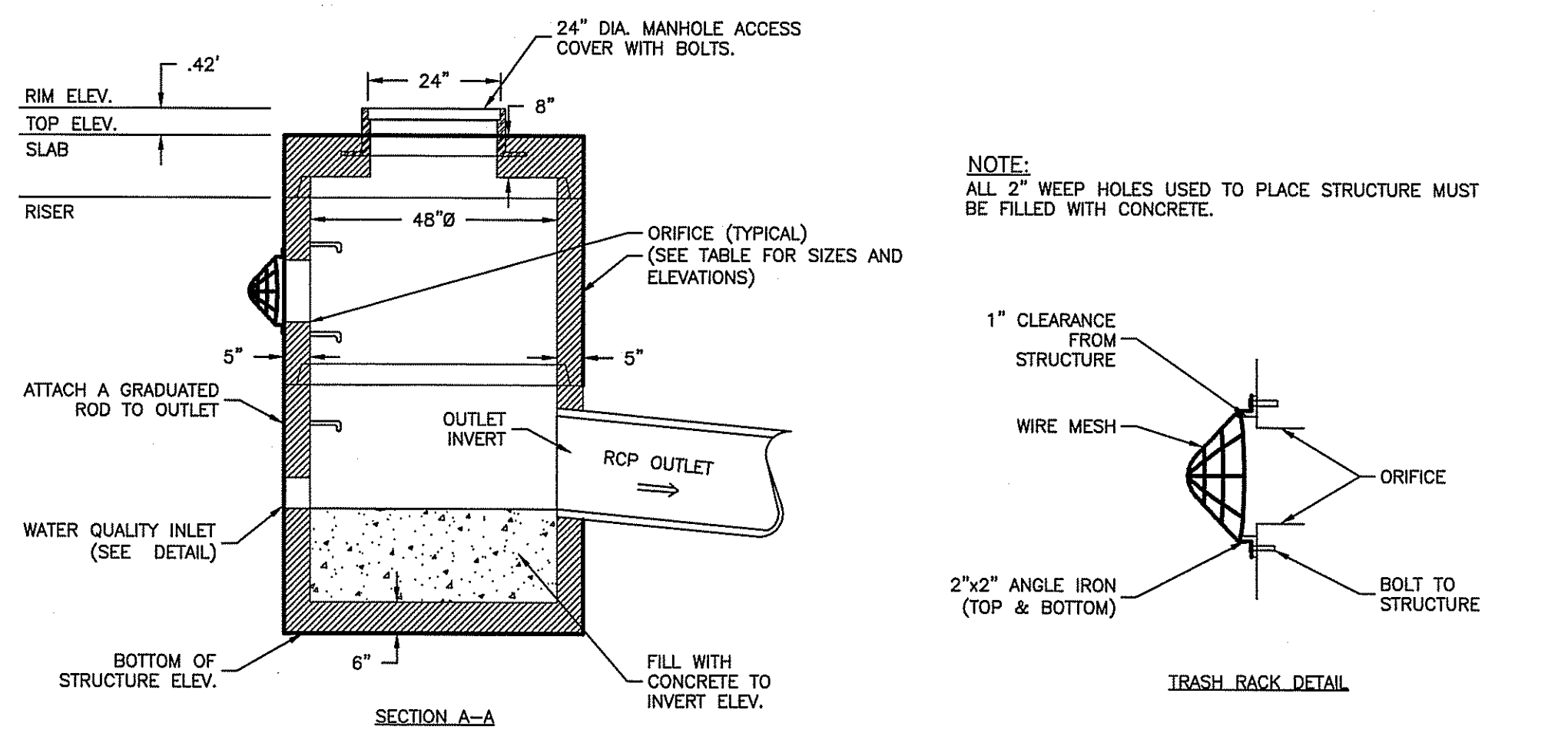


POND B
SCALE: 1"=20'

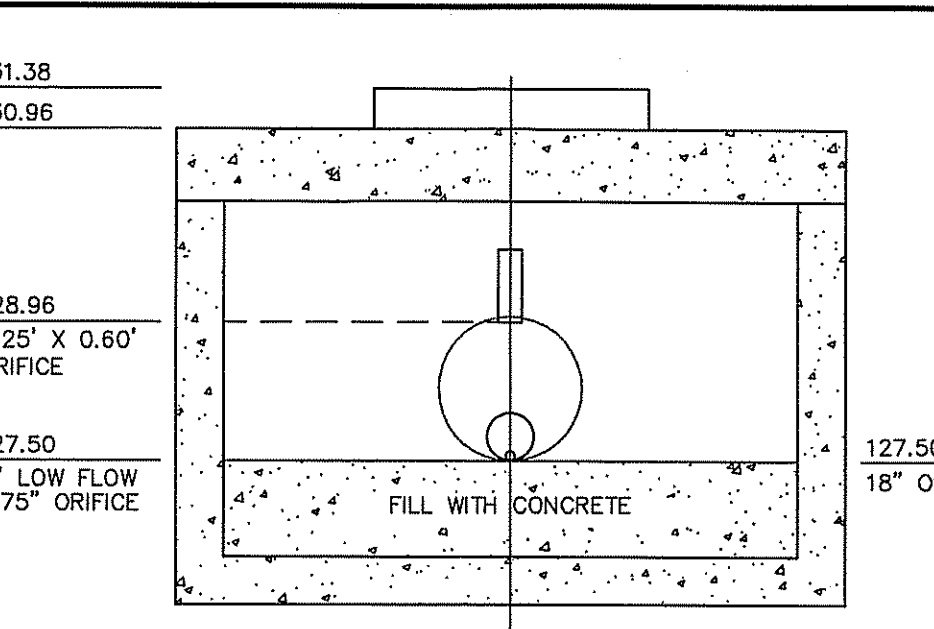
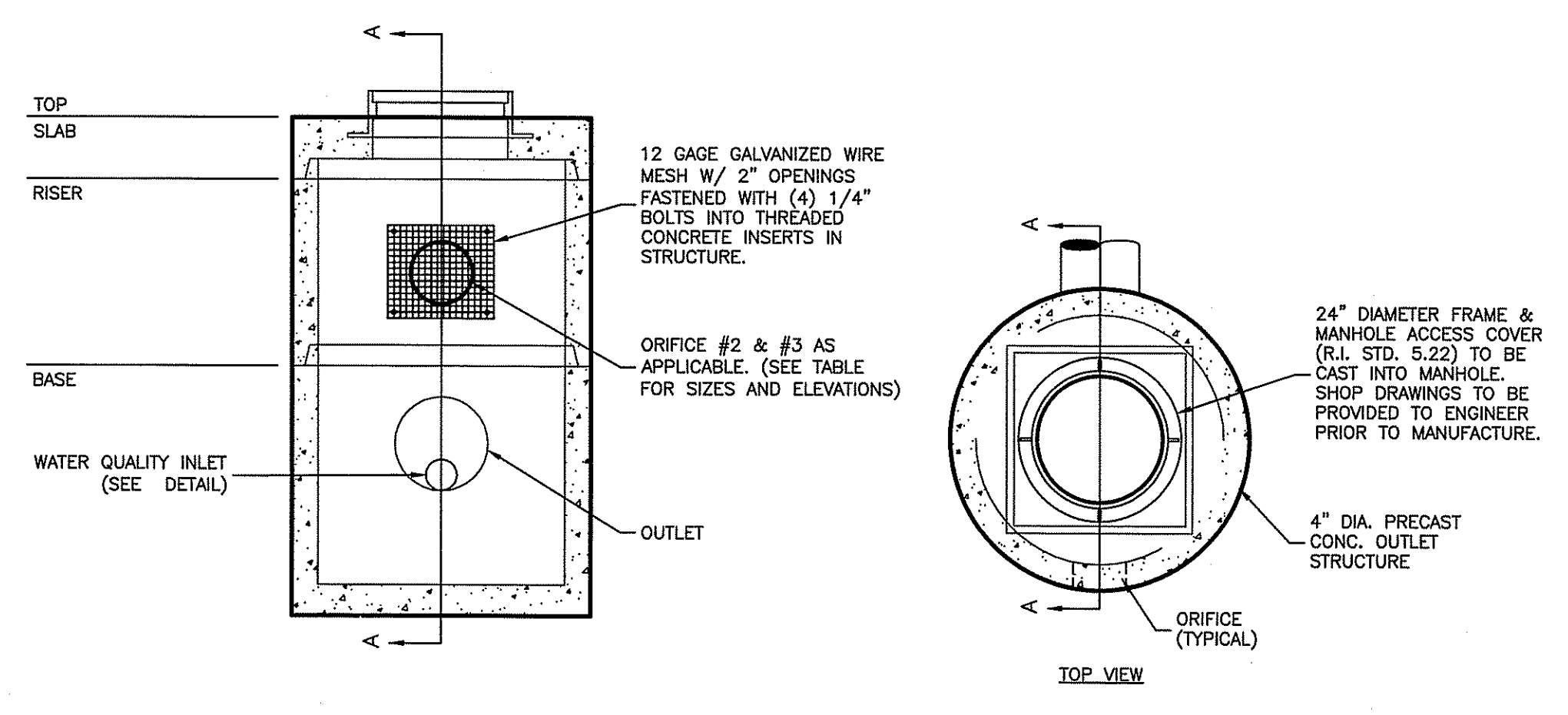
DESCRIPTION	POND B
TOP OF POND ELEVATION	132.00
BOTTOM OF POND	127.50
100 YEAR STORM ELEVATION	130.95
25 YEAR STORM ELEVATION	130.47
10 YEAR STORM ELEVATION	130.15
2 YEAR STORM ELEVATION	129.49
SEASONAL HIGH GWT ELEVATION	126.10



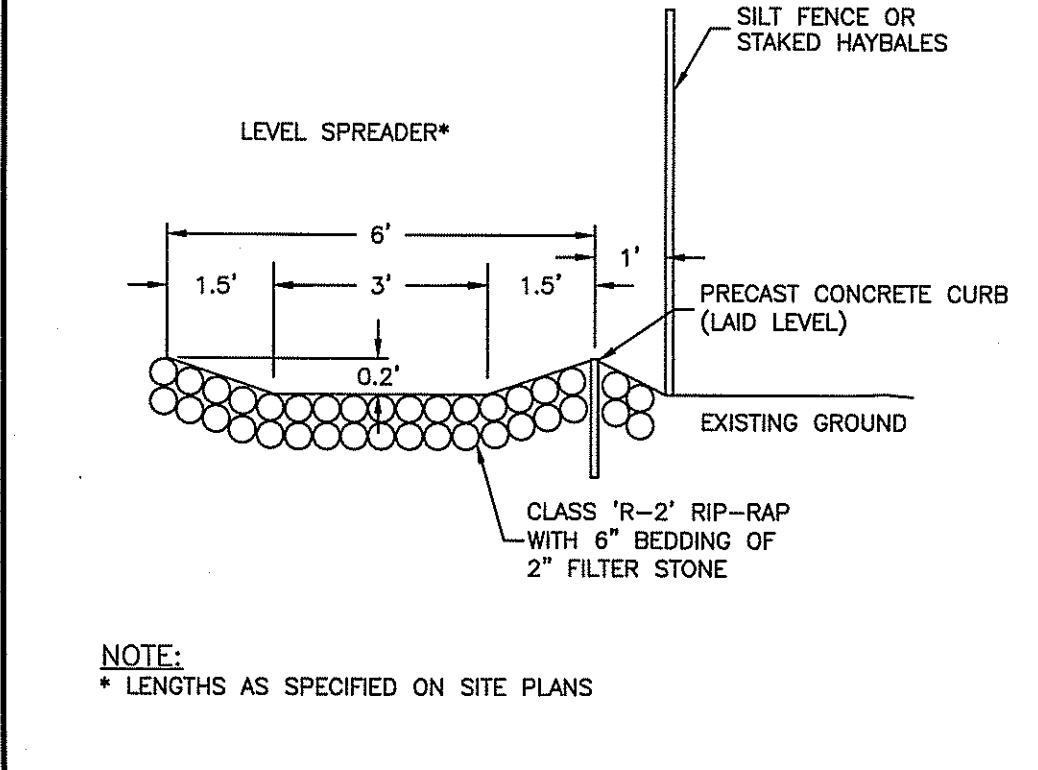
DETENTION POND TYPICAL CROSS SECTION
NOT TO SCALE



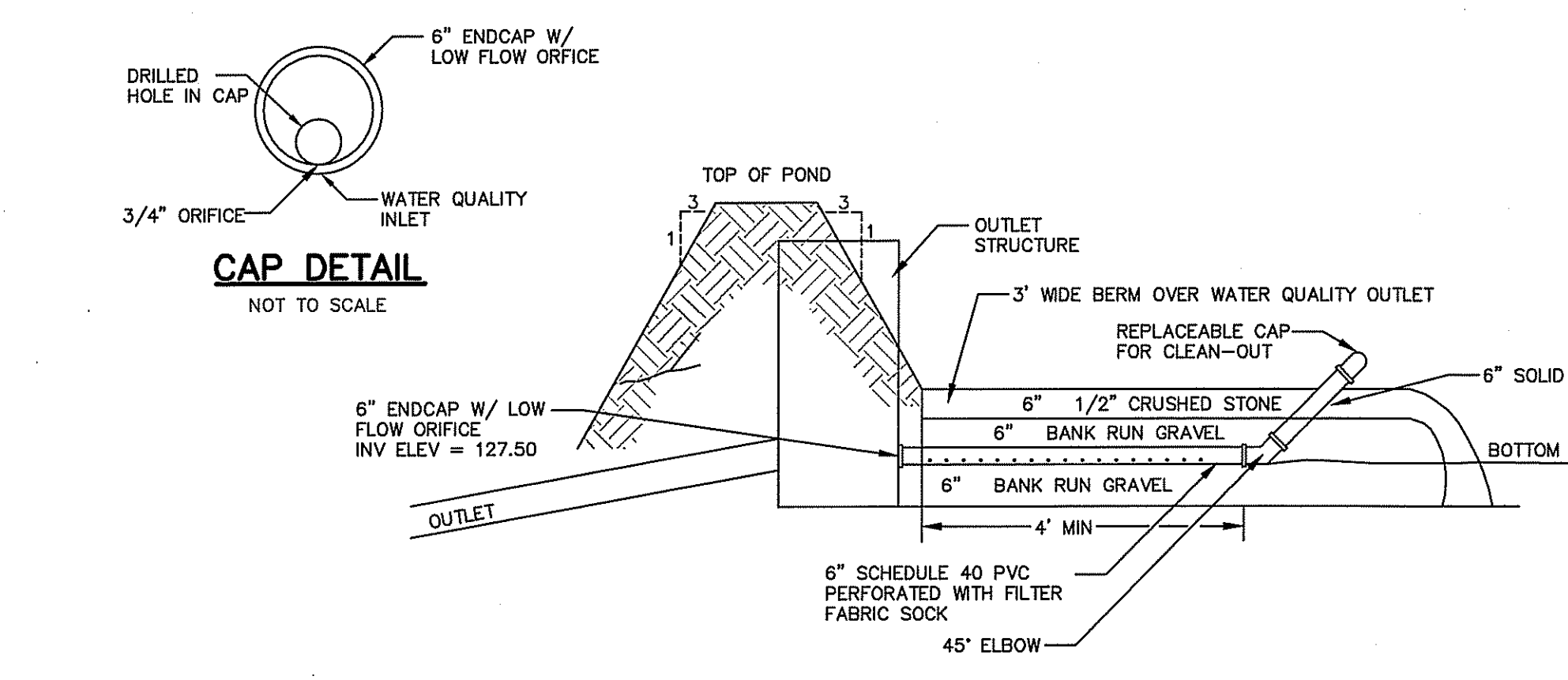
SCHEMATIC 4' DIA. OUTLET STRUCTURE
(REFER TO DETAIL FOR OS-B)
NOT TO SCALE



POND B OUTLET STRUCTURE (OS-B)
SCALE: 1"=2'

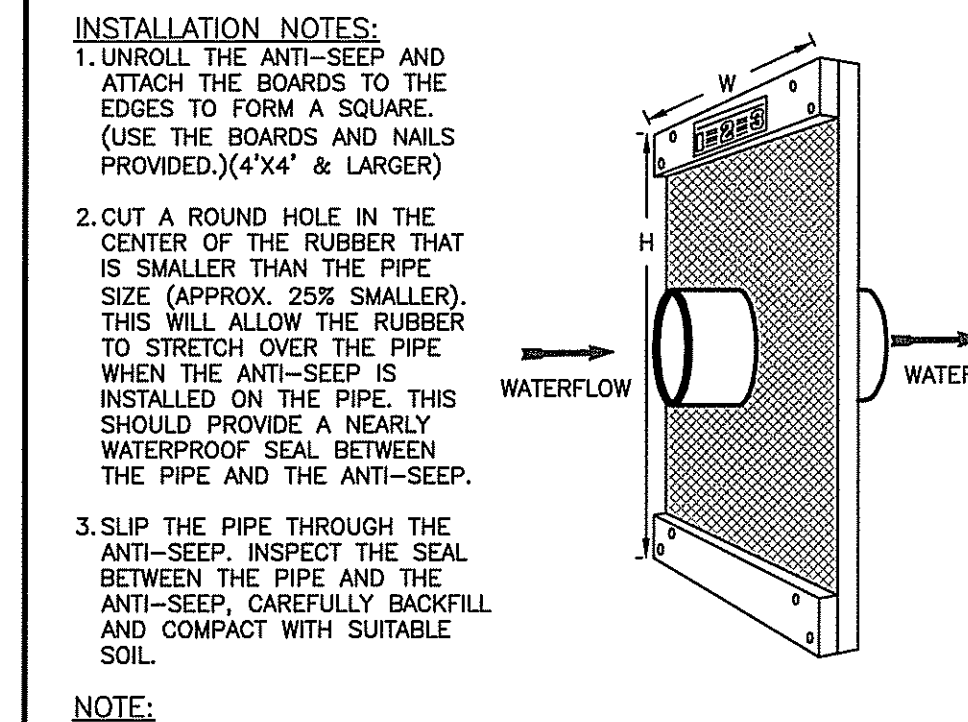


LEVEL SPREADER
NOT TO SCALE



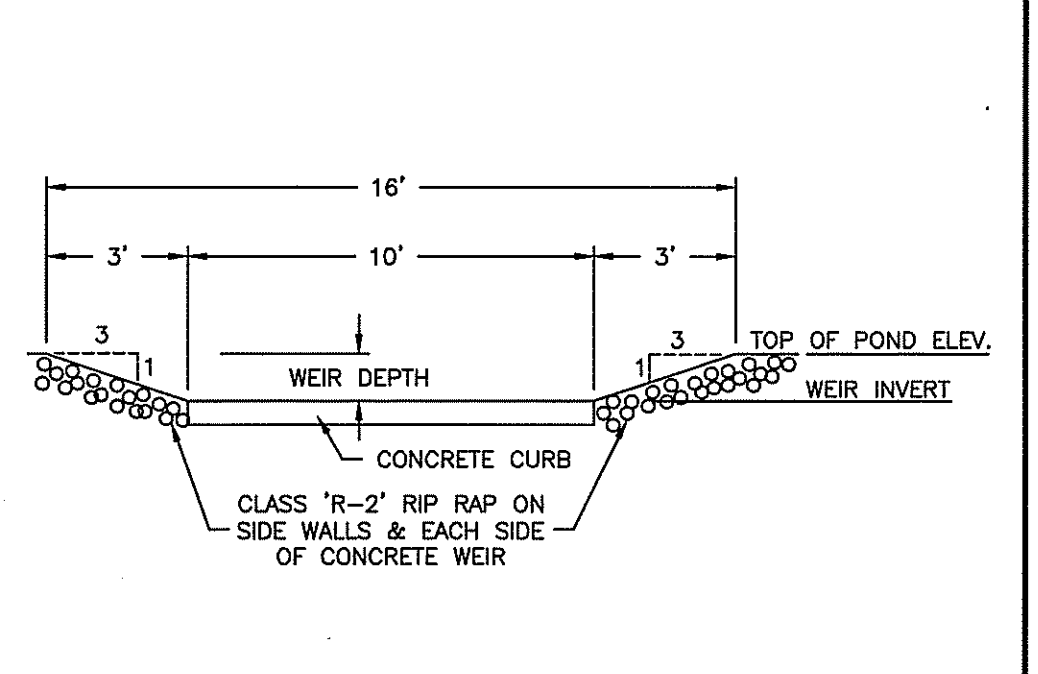
POND B WATER QUALITY OUTLET (WITH STRUCTURE)
NOT TO SCALE

LOCATION	WIDTH	HEIGHT	QUANTITY
POND B	5.0'	5.0'	1



ANTI-SEEP COLLAR
NOT TO SCALE

LOCATION	TOP OF POND ELEV.	WEIR INVERT	WEIR DEPTH
POND B	132.00	131.00	1.00'



EMERGENCY SPILLWAY DETAIL
NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 2 5 2008 FILE # 07-0261
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED FOR CONSTRUCTION

NOTE:
THIS REGULATORY SUBMISSION SET SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS STAMPED, ISSUED FOR CONSTRUCTION AND SIGNED AND DATED BY A DIPRETE ENGINEERING REPRESENTATIVE

LEONARD R. BRADLEY, JR.
No. 6610
REGISTERED PROFESSIONAL ENGINEER
CIVIL

POND B DETAILS
Middle Road Office Park
ASSESSOR'S PLAT 11H LOT 499
EAST GREENWICH, RHODE ISLAND
PREPARED BY
DiPrete Engineering Associates, Inc.
ENGINEERING, SURVEYING AND PLANNING CONSULTANTS
TWO STAFFORD COURT
CRANSTON, R.I. 02920
(401) 943-1000 FAX: (401) 464-6006
PREPARED FOR
Middle Road Enterprises, LLC
6899 POST ROAD
NORTH KINGSTOWN, R.I. 02852
MAY, 2007
DWN. BY: S.A.B.

NO.	DATE	DESCRIPTION	BY
2	6-18-08	RIP-RAP SUBMISSION	B.D.C.
1	5-16-07	RIP-RAP SUBMISSION	S.A.B.