RIDEM/RIDOT Submission

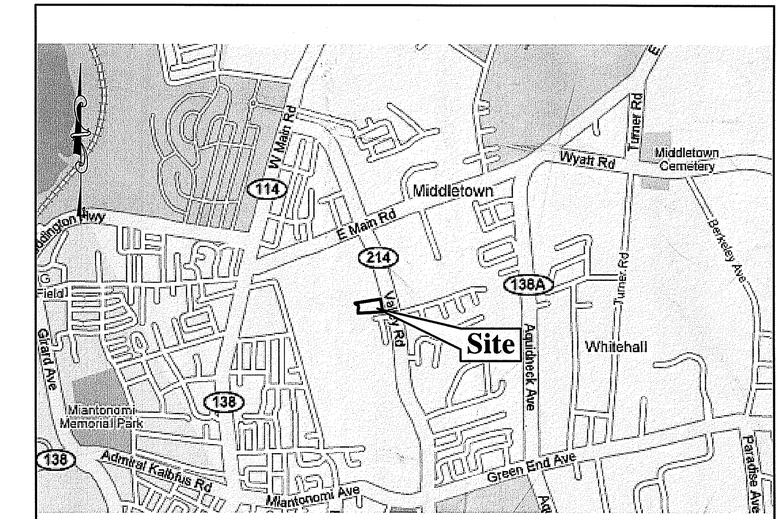
Middletown Police Station

Located on Valley Road
Middletown, Rhode Island
Assessor's Plat 108 Lot 554

Sheet Index

* Landscape Plan Prepared by John C. Carter & Company, Inc and Not Included in this Submission

** Lighting Plan Prepared by Fuss & O'Neill and Not Included in this Submission



Location Map Not To Scale

R.I.D.O.T.
THE PROPOSED IMPROVEMENTS WILL NOT INCREASE THE AMOUNT OF STORMWATER RUNOFF ONTO THE STATE HIGHWAY.
ALL WORK WITHIN THE STATE RIGHT-OF-WAY MUST CONFORM TO THE RI STANDARD SPECIFICATIONS, DETAILS, AND ADDENDUMS.

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 1 4 2008 FILE # 08-0038
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Martin D. Wencek
MAY 1 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

REVISIONS

NO.	DATE	DESCRIPTION
1	4/30/08	ADDRESSED DEM & RIDOT COMMENTS

DiPrete Engineering
Two Stafford Court
Cranston, Rhode Island 02920
Tel: (401) 943-1000 Fax: (401) 464-6006

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

THE LAWRENCE ASSOCIATES
ARCHITECTS / PLANNERS, P.C.
1075 TOLLAND TURNPIKE MANCHESTER,CT 06040
FAX: (860) 643-4373 (860) 643-2941

PROJECT NUMBER | STATE PROJECT NO.

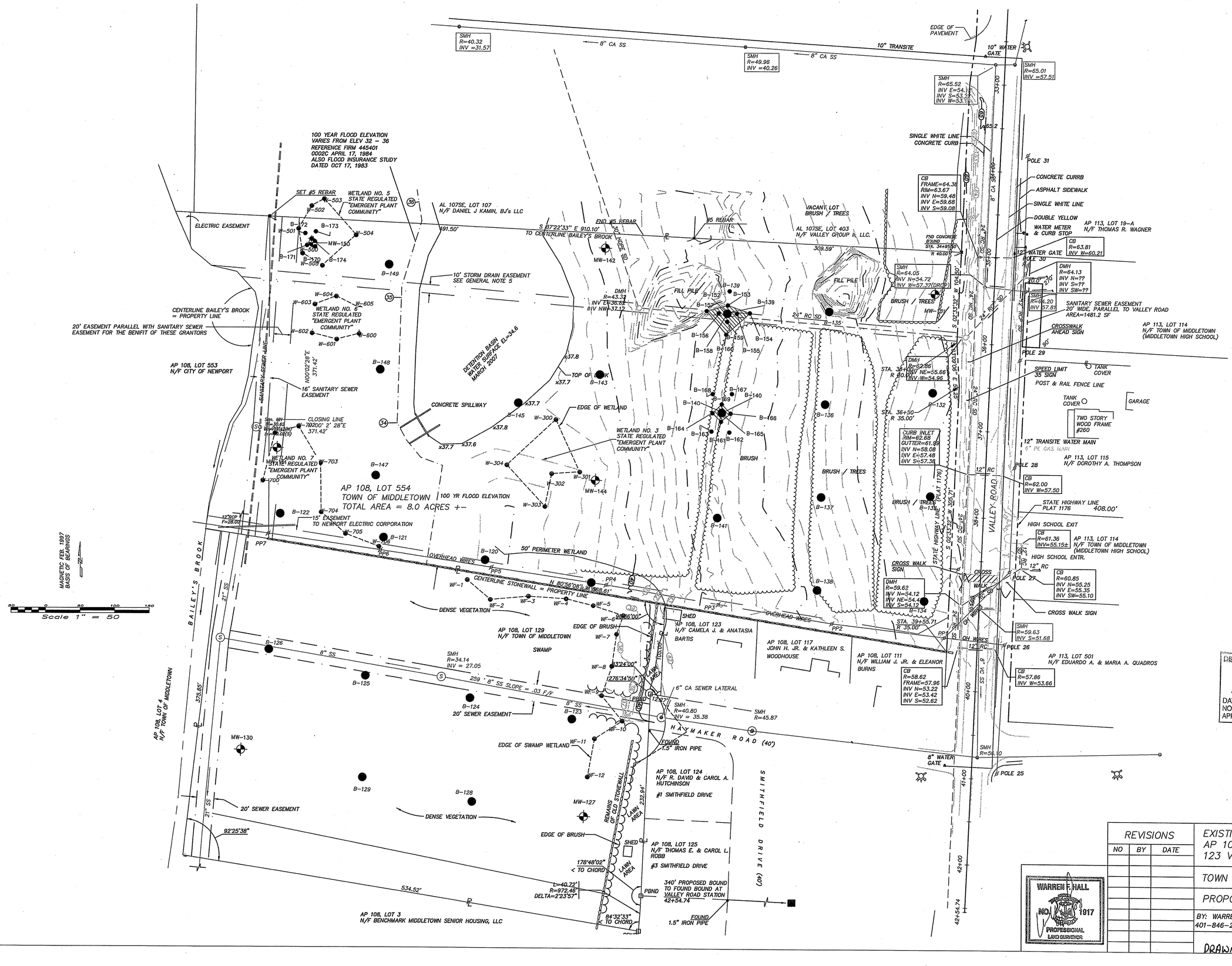
PROJECT TITLE: Middletown Police Station
Valley Road
Middletown, Rhode Island

DRAWING TITLE: COVER SHEET

SCALE: | DATE: 2-15-08

DWN. BY: B.D.C.

DRAWING 1 OF 14



GENERAL NOTES

1. THE SITE IS FOUND ON TOWN OF MIDDLETOWN ASSESSOR'S PLAT 108 LOT 554. CURRENT OWNER OF RECORD IS THE TOWN OF MIDDLETOWN.
2. PROPERTY BOUNDARY, TOPOGRAPHY, AND EXISTING CONDITIONS AND FEATURES PROVIDED BY WARREN HALL.
3. WETLANDS SHOWN ON AP 108 LOT 554 PER PLAN REFERENCE #1 AND PER DEM APPROVAL #97-0422. WETLANDS DELINEATED BY MASON AND ASSOCIATES INC., NORTH SCITUATE, RHODE ISLAND. WETLANDS SHOWN ON AP 108 LOT 129 DELINEATED BY NATURAL RESOURCE SERVICES.
4. ALL ELEVATIONS REFERENCE NGVD-29.
5. EXISTING 10' STORM DRAIN EASEMENT IS RECORDED IN THE TOWN OF MIDDLETOWN DEED BOOK PAGE

PLAN REFERENCE

1. "PROPOSED RETAIL CENTER, EAST MAIN ROAD AND VALLEY ROAD, MIDDLETOWN, RHODE ISLAND" PREPARED BY BARAKOS-LANDINO DESIGN GROUP, HAMDEN, CONNECTICUT, DATED: JUNE 2, 1997 AS REVISED JUNE 1, 1998.

CONTRACTOR NOTE

ALL SUBCONTRACTORS, SUPPLIERS AND MANUFACTURERS SHALL PROVIDE AND INSTALL ALL WORK RELATED AND/OR REQUIRED BY DRAWINGS, SPECIFICATIONS AND/OR NOTATIONS INDICATED ON OTHER CONTRACT DOCUMENTS. SUBCONTRACTORS SHALL REVIEW ALL OTHER DRAWINGS AND SPECIFICATIONS CONTAINED IN THE CONTRACT DOCUMENTS AND SHALL PROVIDE THE REQUIRED WORK INDICATED OR IMPLIED BY REFERENCES, INDICATION OF EQUIPMENT AND/OR NOTATIONS TO OTHER TRADES WHETHER OR NOT INDICATED ON DRAWINGS REFERRING TO A SPECIFIC TRADE. ALTHOUGH THE DRAWINGS HAVE BEEN ARRANGED BY TRADITIONAL "TRADES", THAT DOES NOT LIMIT THE SCOPE OF REQUIRED WORK FOR A PARTICULAR TRADE TO THOSE DRAWINGS.

FEMA NOTE

REVIEW OF THE FEMA MAPPING FOR THE SITE INDICATES THAT THERE ARE ZONE B AND ZONE A3 FLOOD HAZARD AREAS LOCATED ON THE SITE.

ZONE A3 – AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARD FACTORS DETERMINED

ZONE B – AREAS BETWEEN LIMITS OF THE 100-YEAR FLOOD AND 500-YEAR FLOOD; OR CERTAIN AREAS SUBJECT TO 100-YEAR FLOODING WITH AVERAGE DEPTHS LESS THAN ONE (1) FOOT OR WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN ONE SQUARE MILE; OR AREAS ProTECTED BY LEVEES FROM THE BASE FLOOD

THESE EXTEND FROM BAILEY BROOK LOCATED AT THE WESTERN PROPERTY LINE OF THE SITE. NO DEVELOPMENT IS PLANNED IN THE AREA THAT THESE FLOOD ZONES COVER. THE FEMA RATE INSURANCE MAP NO. 445401 0002 D, REVISED JUNE 16, 1992 INCLUDES THE AREA OF THE SITE.

THE MIDDLETOWN POLICE STATION SITE IS LOCATED IN THE FOLLOWING FLOOD INSURANCE ZONE:

ZONE X – AREAS DETERMINED TO BE OUTSIDE OF THE 500-YEAR FLOOD-PLAIN.

ALL FLOOD PLAIN INFORMATION BASED ON FIRM MAP DATED 4-17-1984.

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 14 2008 FILE # 08-0038
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Maureen D. Wenceck

MAY 1 2008

REVISIONS		
NO	BY	DATE

EXISTING CONDITIONS PLAN
AP 108, LOT 554
123 VALLEY RD., MIDDLETOWN, RI 02842

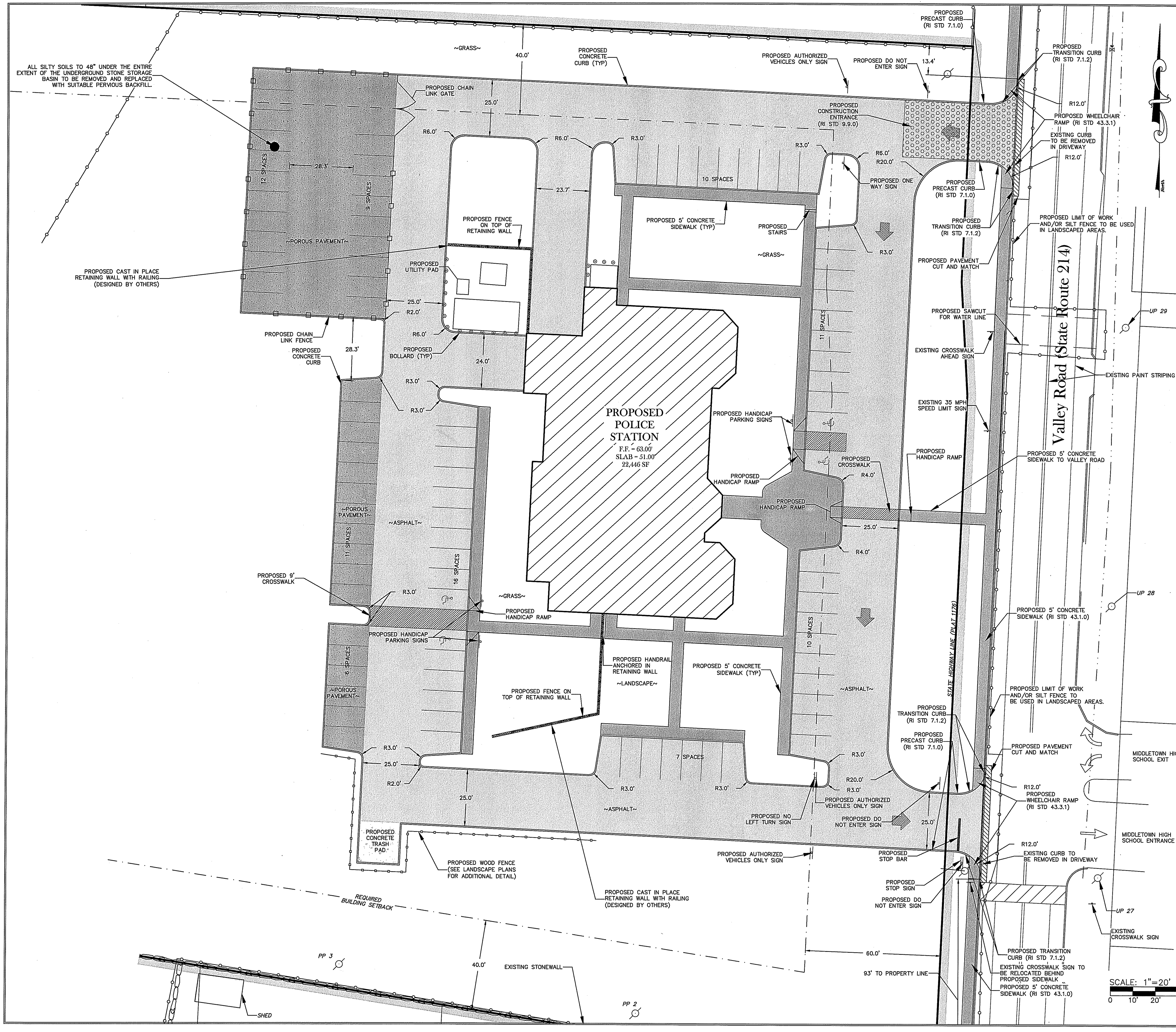
TOWN OF MIDDLETOWN

PROPOSED MIDDLETOWN POLICE STATION

BY: WARREN HALL, TOWN ENGINEER, 350 EAST MAIN RD., MIDDLETOWN, RI 401-846-2119

WARREN F. HALL NO. 1917 PROFESSIONAL LAND SURVEYOR

DRAWING 2 OF 10


ALL SILTY SOILS TO 48" UNDER THE ENTIRE EXTENT OF THE UNDERGROUND STONE STORAGE BASIN TO BE REMOVED AND REPLACED WITH SUITABLE PERVIOUS BACKFILL.
~GRASS~
40.0'
PROPOSED CONCRETE CURB (TYP)
PROPOSED AUTHORIZED VEHICLES ONLY SIGN
PROPOSED DO NOT ENTER SIGN
13.4'
PROPOSED PRECAST CURB (RI STD 7.1.0)
PROPOSED TRANSITION CURB (RI STD 7.1.2)
R12.0'
PROPOSED WHEELCHAIR RAMP (RI STD 43.3.1)
EXISTING CURB TO BE REMOVED IN DRIVEWAY
PROPOSED CHAIN LINK GATE
25.0'
PROPOSED CONSTRUCTION ENTRANCE (RI STD 9.9.0)
R6.0'
R3.0'
R20.0'
12 SPACES
28.3'
9 SPACES
23.7'
10 SPACES
PROPOSED ONE WAY SIGN
PROPOSED FENCE ON TOP OF RETAINING WALL
PROPOSED 5' CONCRETE SIDEWALK (TYP)
PROPOSED STAIRS
~GRASS~
~POROUS PAVEMENT~
PROPOSED CAST IN PLACE RETAINING WALL WITH RAILING (DESIGNED BY OTHERS)
PROPOSED UTILITY PAD
PROPOSED LIMIT OF WORK AND/OR SILT FENCE TO BE USED IN LANDSCAPED AREAS.
PROPOSED PAVEMENT CUT AND MATCH
R2.0'
PROPOSED CHAIN LINK FENCE
PROPOSED CONCRETE CURB
PROPOSED BOLLARD (TYP)
24.0'
PROPOSED SAWCUT FOR WATER LINE
11 SPACES
EXISTING CROSSWALK AHEAD SIGN
Valley Road (State Route 214)
UP 29
EXISTING PAINT STRIPING
EXISTING 35 MPH SPEED LIMIT SIGN
PROPOSED POLICE STATION
F.F. = 63.00'
SLAB = 51.00'
22,446 SF
PROPOSED HANDICAP PARKING SIGNS
PROPOSED HANDICAP RAMP
PROPOSED CROSSWALK
R4.0'
PROPOSED 5' CONCRETE SIDEWALK TO VALLEY ROAD
~POROUS PAVEMENT~
~ASPHALT~
16 SPACES
PROPOSED 9' CROSSWALK
~GRASS~
6 SPACES
10 SPACES
PROPOSED HANDRAIL ANCHORED IN RETAINING WALL
~LANDSCAPE~
PROPOSED FENCE ON TOP OF RETAINING WALL
STATE HIGHWAY LINE (PLAT 1176)
UP 28
PROPOSED 5' CONCRETE SIDEWALK (RI STD 43.1.0)
7 SPACES
MIDDLETOWN HIGH SCHOOL EXIT
PROPOSED NO LEFT TURN SIGN
PROPOSED DO NOT ENTER SIGN
PROPOSED CONCRETE TRASH PAD
PROPOSED WOOD FENCE (SEE LANDSCAPE PLANS FOR ADDITIONAL DETAIL)
PROPOSED STOP BAR
MIDDLETOWN HIGH SCHOOL ENTRANCE
PROPOSED STOP SIGN
REQUIRED BUILDING SETBACK
UP 27
EXISTING CROSSWALK SIGN
PROPOSED TRANSITION CURB (RI STD 7.1.2)
EXISTING CROSSWALK SIGN TO BE RELOCATED BEHIND PROPOSED SIDEWALK
60.0'
93' TO PROPERTY LINE
PP 3
PP 2
EXISTING STONEWALL
SHED
North

SCALE: 1"=20'

0 10' 20' 40'

GENERAL NOTES

1. THE SITE IS TO BE SERVICED BY PUBLIC SEWER AND PUBLIC WATER.
2. THE DRAINAGE SYSTEM HAS BEEN DESIGNED TO MEET THE CITY OF MIDDLETOWN STORMWATER ORDINANCE (CHAPTER 53) WITH THE USE OF GRADING TO DIRECT FLOW TO THE NEW DRAINAGE STRUCTURES WHICH WILL DISCHARGE TO THE EXISTING DRAINAGE SYSTEM. THE STORMWATER MANAGEMENT SYSTEM WILL INCORPORATE THE RIDEM BEST MANAGEMENT PRACTICES.
3. THE SITE IS PROPOSED TO BE BUILT IN 1 PHASE. CONSTRUCTION TO BEGIN IN THE SPRING OF 2008.
4. THE PROPOSED IMPROVEMENTS WILL NOT INCREASE THE AMOUNT OF STORMWATER RUNOFF ONTO THE STATE HIGHWAY. ALL WORK WITHIN THE STATE RIGHT–OF–WAY MUST CONFORM TO THE RI STANDARD SPECIFICATIONS, DETAILS, AND ADDENDUMS
5. ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES 2003, INCLUDING ALL REVISIONS.
6. NO LANE OR SHOULDER CLOSURES SHALL BE PERFORMED WITHIN THE STATE'S RIGHT OF WAY DURING PEAK TRAFFIC HOURS.
7. SEWER AND WATER CONNECTIONS WITHIN THE STATE RIGHT OF WAY WILL REQUIRE A SEPARATE RIDOT UTILITY PERMIT. CONTRACTOR TO OBTAIN BEFORE CONSTRUCTION.
8. THE SITE CONTRACTOR IS TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION. THE OWNER AND PROJECT ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE PLANS AND FIELD INFORMATION.
9. 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.

ADA NOTES

ACCESSIBLE PARKING AREAS SHALL BE CONSTRUCTED IN ACCORDANCE WITH 28 CFR PART 36 ADA STANDARDS FOR ACCESSIBLE DESIGN: SECTION 4. ACCESSIBLE ELEMENTS AND SPACES: SCOPE AND TECHNICAL REQUIREMENTS

1. ACCESS AISLES ADJACENT TO ACCESSIBLE PARKING SPACES SHALL BE A MINIMUM OF 60 INCHES IN WIDTH.
2. ONE IN EVERY EIGHT ACCESSIBLE SPACES, BUT NOT LESS THAN ONE, SHALL BE SERVED BY AN ACCESS AISLE WITH A MINIMUM WIDTH OF 96 INCHES, AND SHALL BE DESIGNATED "VAN ACCESSIBLE".
3. PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 (2.0%) IN ALL DIRECTIONS.
4. ACCESSIBLE AREAS WITH SLOPES GREATER THAN 1:20 ARE TO BE CONSIDERED RAMPS.
5. ACCESSIBLE RAMPS SHALL NOT EXCEED A SLOPE OF 1:20 WITH A MAXIMUM RISE OF 30 INCHES.
6. IF A RAMP RUN HAS A RISE GREATER THAN 6 INCHES OR A HORIZONTAL PROJECTION GREATER THAN 72 INCHES, THEN IT SHALL HAVE HANDRAILS INSTALLED ON BOTH SIDES.
7. CROSS SLOPES ON RAMPS SHALL NOT EXCEED 1:50.

ZONING REQUIREMENTS

THE CURRENT ZONING OF THE SITE IS P:

DIMENSIONAL REGULATIONS

MINIMUM LOT AREA:	5 ACRES
MINIMUM LOT FRONTAGE:	300 FEET
MINIMUM FRONT YARD SETBACK:	60 FEET
MINIMUM SIDE YARD SETBACK:	40 FEET
MINIMUM REAR YARD SETBACK:	60 FEET
MAXIMUM BUILDING HEIGHT	40 FEET

PARKING REQUIREMENTS

MINIMUM PARKING REQUIRED PER TOWN OF MIDDLETOWN:
3 SPACES PER 1,000 GROSS FLOOR AREA

11,223 S.F. X 2 FLOORS=22,446 S.F.
22,446 S.F. / 1000 X 3=68 PARKING SPACES

TOTAL REQUIRED PARKING SPACES: 68 SPACES
TOTAL PROVIDED PARKING SPACES: 71 SPACES

TOTAL REQUIRED HANDICAP PARKING SPACES:
3 SPACES (1 SPACE MUST BE VAN ACCESSIBLE)
TOTAL PROVIDED HANDICAP PARKING SPACES:
4 SPACES (4 SPACES ARE TO BE VAN ACCESSIBLE)

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 MANAGEM...
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPRO...
DATED MAY 1 4 2008 FILE # 08-0038
NO CHANGES ALLOWED WITHOUT PRIOR APPROV...
APPROVED PLANS MUST BE AT CONSTRUCTION SI...

[illegible]

MAY 1 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

REVISIONS

NO.	DATE	DESCRIPTION
1	4/30/08	ADDRESSED DEM & DOT COMMENTS

DiPrete Engineering
Two Stafford Court
Cranston, Rhode Island 02920
Tel: (401) 943-1000 Fax: (401) 464-6006

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

THE LAWRENCE ASSOCIATES
ARCHITECTS / PLANNERS, P.C.
1075 TOLLAND TURNPIKE, MANCHESTER, CT 06040
(860) 643-4373 FAX: (860) 643-2161

STATE PROJECT NO.

PROJECT NUMBER

PROJECT TITLE:
Middletown Police Station
Valley Road
Middletown, Rhode Island

DRAWING TITLE:
PARKING LAYOUT PLAN

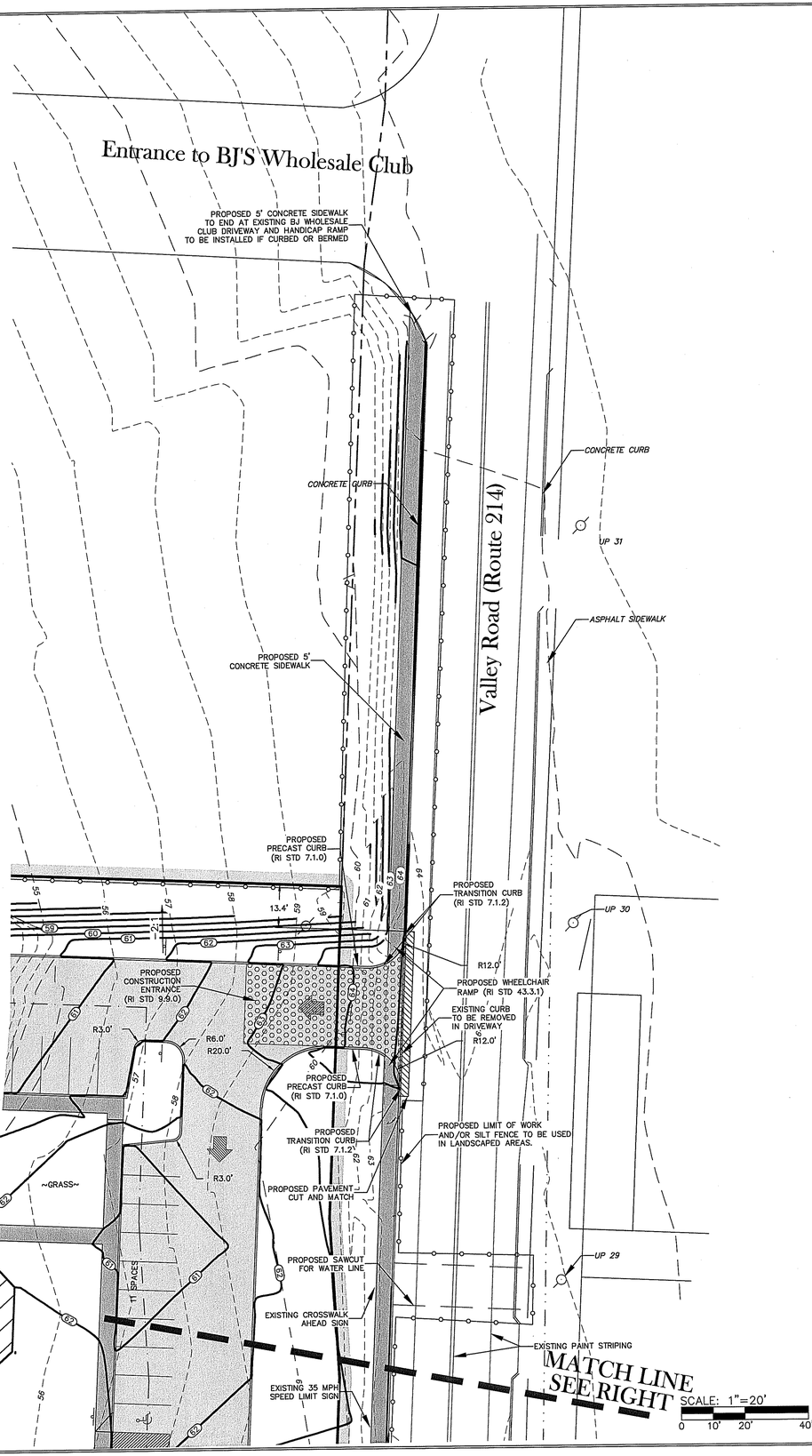
SCALE:

DATE: 2-15-08

DWN. BY: B.D.C.

DRAWING 3 OF 10 14

\\DEAstorage\DEAmain\Engineers3\Projects\1319-002 Middletown\dwg\1319-002 Plotting Set.dwg, 4/30/2008 3:56:41 PM, Brandon, DWFG ePlot.pc3



REVISIONS

NO.	DATE	DESCRIPTION
1	4/30/08	ADDRESSED DEM & DOT COMMENTS

DiPrete Engineering
Two Stafford Court
Cranston, Rhode Island 02920
Tel: (401) 943-1000 Fax: (401) 464-6006

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

THE LAWRENCE ASSOCIATES
LAND SURVEYORS, P.C.
1075 TOLLAND TURNPIKE, MANCHESTER, CT 06040
FAX: (860) 643-4973 (860) 643-2314

PROJECT NUMBER
STATE PROJECT NO.

PROJECT TITLE:
Middletown Police Station
Valley Road
Middletown, Rhode Island

DRAWING TITLE:
VALLEY ROAD SIDEWALK PLAN

SCALE:
DATE: 2-15-08

DWN. BY: B.D.C.

DRAWING 4 OF 16


ALL SILTY SOILS TO 48" UNDER THE ENTIRE EXTENT OF THE UNDERGROUND STONE STORAGE BASIN TO BE REMOVED AND REPLACED WITH SUITABLE PERVIOUS BACKFILL.
EIXSTING DRAINAGE EASEMENT
STOCKPILE TO BE REUSED IN DEVELOPMENT OF SITE
PROPOSED SILT FENCE (RI STD 9.2.0) AT LIMIT OF WORK
EXISTING BJ'S DRAINAGE BASIN
PROPOSED CAST IN PLACE RETAINING WALL WITH RAILING (DESIGNED BY OTHERS)
SEV 3 GWT=18"
STORMWATER RUNOFF FROM THE PROPOSED POLICE STATION DEVELOPMENT IS CONTROLLED BY PROPOSED POND A. THE EXISTING DRAINAGE BASIN ON SITE CONTROLS STORMWATER RUNOFF FROM THE BJ'S SITE, AND IS NOT USED TO CONTROL RUNOFF FROM THE PROPOSED POLICE STATION.
PROPOSED EMERGENCY SPILLWAY
BOTTOM OF POND ELEV = 43.50'
SEV 2 GWT=84"
POND A
PROPOSED LEVEL SPREADER
WETLAND NO. 3 STATE REGULATED "EMERGENT PLANT COMMUNITY"
W-300
W-301
W-302
W-303
PER RIDEM:
Install permanent buffer zone markers according to Permit Condition No. 10.
SEV 1 GWT=84"
50' PERIMETER WETLAND
PROPOSED SILT FENCE AND HAY BALES (RI STD 9.3.0) TO BE USED AT OUTFALLS OF POND
PP 4
PP 3
PP 2
WF-4
WF-5
WF-6
SWAMP
PROPOSED CONSTRUCTION ENTRANCE (RI STD 9.9.0)
~GRASS~
~ASPHALT~
PROPOSED POLICE STATION
F.F. = 63.00'
SLAB = 51.00'
22,446 SF
CH-1
Valley Road (Route 214)
North

NOTE

ALL SUBCONTRACTORS, SUPPLIERS AND MANUFACTURERS SHALL PROVIDE AND INSTALL ALL WORK RELATED AND/OR REQUIRED BY DRAWINGS, SPECIFICATIONS AND/OR NOTATIONS INDICATED ON OTHER CONTRACT DOCUMENTS. SUBCONTRACTORS SHALL REVIEW ALL OTHER DRAWINGS AND SPECIFICATIONS CONTAINED IN THE CONTRACT DOCUMENTS AND SHALL PROVIDE THE REQUIRED WORK INDICATED OR IMPLIED BY REFERENCES, INDICATION OF EQUIPMENT AND/OR NOTATIONS TO OTHER TRADES WHETHER OR NOT INDICATED ON DRAWINGS REFERRING TO A SPECIFIC TRADE. ALTHOUGH THE DRAWINGS HAVE BEEN ARRANGED BY TRADITIONAL "TRADES", THAT DOES NOT LIMIT THE SCOPE OF REQUIRED WORK FOR A PARTICULAR TRADE TO THOSE DRAWINGS.

CONSTRUCTION NOTES

STEEP SLOPES ARE SHOWN SCHEMATICALLY ONLY AND DIPRETE ENGINEERING ASSOCIATES, INC. IS NOT PROVIDING THE DESIGN OF THESE ITEMS. THE ACTUAL SLOPES ARE TO BE BUILT UNDER THE DIRECTION OF A GEOTECHNICAL ENGINEER AND CERTIFIED TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT

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 PRIOR TO PAVING 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.

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.

LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- PROPOSED CONTOURS
- EDGE OF PAVEMENT
- PAVEMENT
- SIDEWALK
- POROUS PAVEMENT
- PRECAST CONCRETE CURB
- PARKING STRIPING
- WATER LINE — W — W —
- SEWER LINE —S— —S— —S—
- GAS LINE
- UNDERGROUND ELECTRIC LINE
- PROPOSED LIMIT OF WORK
- 6' WOODEN FENCE
- 5' CHAIN LINK FENCE
- DRAINAGE MANHOLE ◎
- DRAINAGE PIPE
- CATCH BASIN ▥
- FLARED END SECTION
- ANTI-SEEP COLLAR

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 14 2008 FILE # 08-0038
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wencek

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

SCALE: 1"=20'
0 10' 20' 40'

MAY 1 2008

REVISIONS

NO.	DATE	DESCRIPTION
1	4/30/08	ADDRESSED DEM & DOT COMMENTS

DiPrete Engineering
Two Stafford Court
Cranston, Rhode Island 02920
Tel: (401) 943-1000 Fax: (401) 464-6006

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

THE LAWRENCE ASSOCIATES
ARCHITECTS / PLANNERS, P.C.
1075 TOLLAND TURNPIKE, MANCHESTER, CT 06040
FAX (860) 643-4373 (860) 643-2161

PROJECT NUMBER
STATE PROJECT NO.

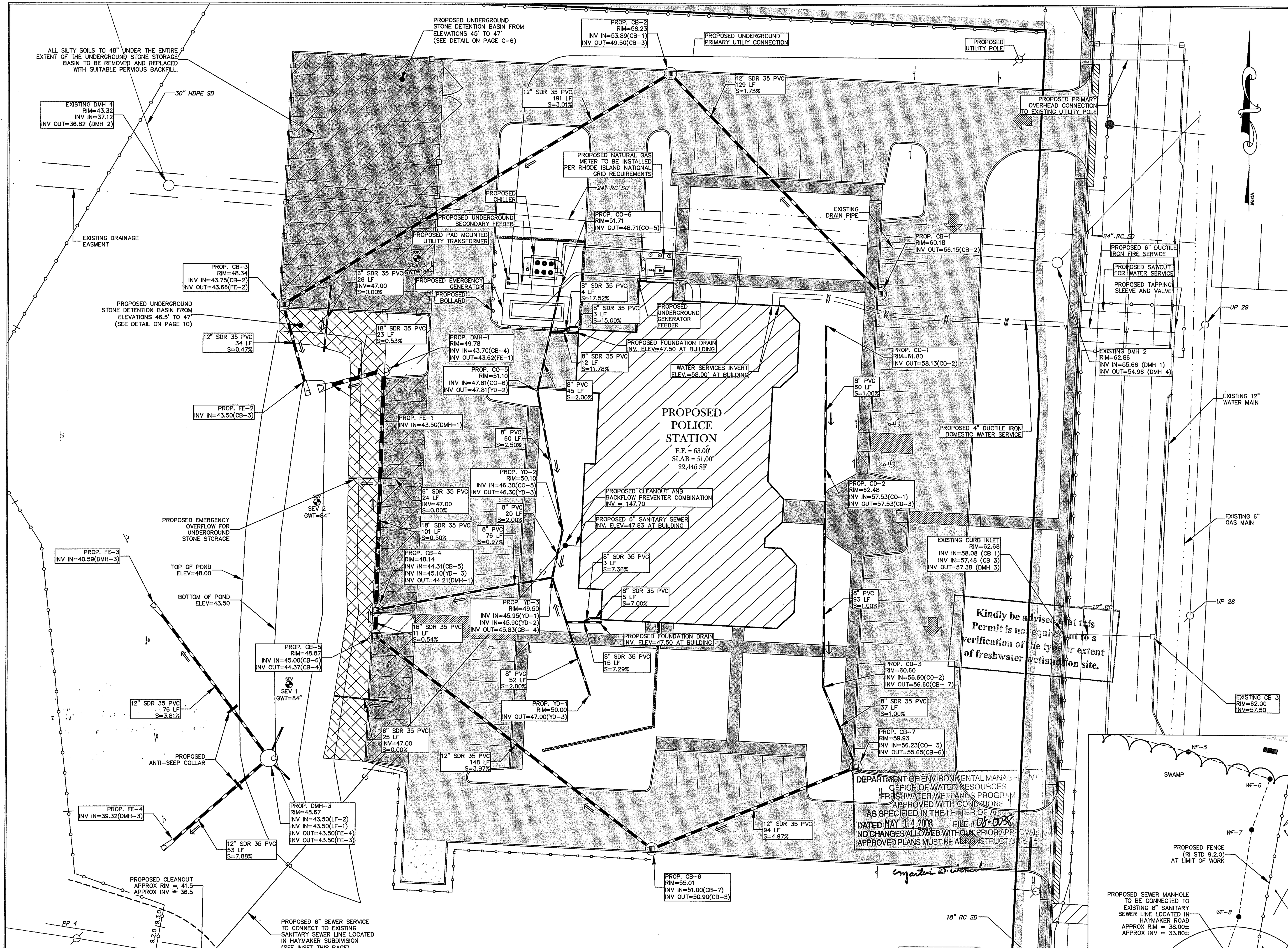
PROJECT TITLE:
Middletown Police Station
Valley Road
Middletown, Rhode Island

DRAWING TITLE:
GRADING PLAN

SCALE:
DATE: 2-15-08

DWN. BY: B.D.C.

DRAWING 5 OF ~~14~~ 10



RIDEM UIC CERTIFICATIONS:

PROPOSED UNDERGROUND DRAINAGE SYSTEM MEETS ALL THE FOLLOWING UIC MINIMUM SETBACK REQUIREMENTS:

A. 400 FEET FROM ALL PUBLIC WELLS.
B. 100 FEET FROM ALL PRIVATE WELLS.
C. 200 FEET FROM ALL SURFACE WATER SUPPLIES AND TRIBUTARIES
D. 150 FEET FROM ALL COASTAL PONDS.
E. 50 FEET FROM ALL NON-CRITICAL SURFACE WATERS.
F. 25 FEET FROM ALL EXISTING OR PROPOSED SUBSURFACE DISPOSAL SYSTEMS.
G. 10 FEET FROM ALL BUILDING FOUNDATIONS AND SLABS.

SCALE: 1"=20'
0 10' 20' 40'

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

NOTE

ALL SUBCONTRACTORS, SUPPLIERS AND MANUFACTURERS SHALL PROVIDE AND INSTALL ALL WORK RELATED AND/OR REQUIRED BY DRAWINGS, SPECIFICATIONS AND/OR NOTATIONS INDICATED ON OTHER CONTRACT DOCUMENTS. SUBCONTRACTORS SHALL REVIEW ALL OTHER DRAWINGS AND SPECIFICATIONS CONTAINED IN THE CONTRACT DOCUMENTS AND SHALL PROVIDE THE REQUIRED WORK INDICATED OR IMPLIED BY REFERENCES, INDICATION OF EQUIPMENT AND/OR NOTATIONS TO OTHER TRADES WHETHER OR NOT INDICATED ON DRAWINGS REFERRING TO A SPECIFIC TRADE. ALTHOUGH THE DRAWINGS HAVE BEEN ARRANGED BY TRADITIONAL "TRADES", THAT DOES NOT LIMIT THE SCOPE OF REQUIRED WORK FOR A PARTICULAR TRADE TO THOSE DRAWINGS.

DRAINAGE NOTES

1. ALL CATCH BASINS SHALL BE 4' DIAMETER WITH 3' SUMPS, EXCEPT FOR CB-3, CB-4 AND CB-5 WHICH WILL BE 4' DIAMETER WITH 4' SUMPS.
2. DMH-3 TO BE A 6' DIAMETER MANHOLE.
3. ALL DRAINAGE PIPES ARE TO BE SDR 35 PVC UNLESS OTHERWISE SPECIFIED.
4. ROOF LEADERS TO CONNECT TO 8" HDPE PIPE RUNNING ALONG BUILDING.

WATER INSTALLATION NOTES

INSTALLATION OF WATER MAIN SHALL CONFORM TO THE NEWPORT WATER AUTHORITY REQUIREMENTS, AND IN ACCORDANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION INSTALLATION MANUAL.

DISTRIBUTION PIPING SHALL BE CL 52 DUCTILE IRON, DOUBLE CEMENT LINED, WITH PUSH ON JOINTS. PIPE SHALL MEET ANSI/AWWA C151 A21.51. JOINTS SHALL MEET ANSI/AWWA/C111/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 TEST OF THE WATER SYSTEM SHALL BE 1.5 TIMES THE MAXIMUM WORKING PRESSURE OR A MINIMUM PRESSURE OF 150 PSI. NOTIFY NEWPORT WATER AUTHORITY 2 DAYS PRIOR TO TEST.

NOTIFY THE NEWPORT WATER AUTHORITY 5 DAYS PRIOR TO CONSTRUCTION COMMENCEMENT.

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.

SEWER LINE / WATER MAIN SEPARATION 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 SEPARATION 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 SEPARATION. 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.

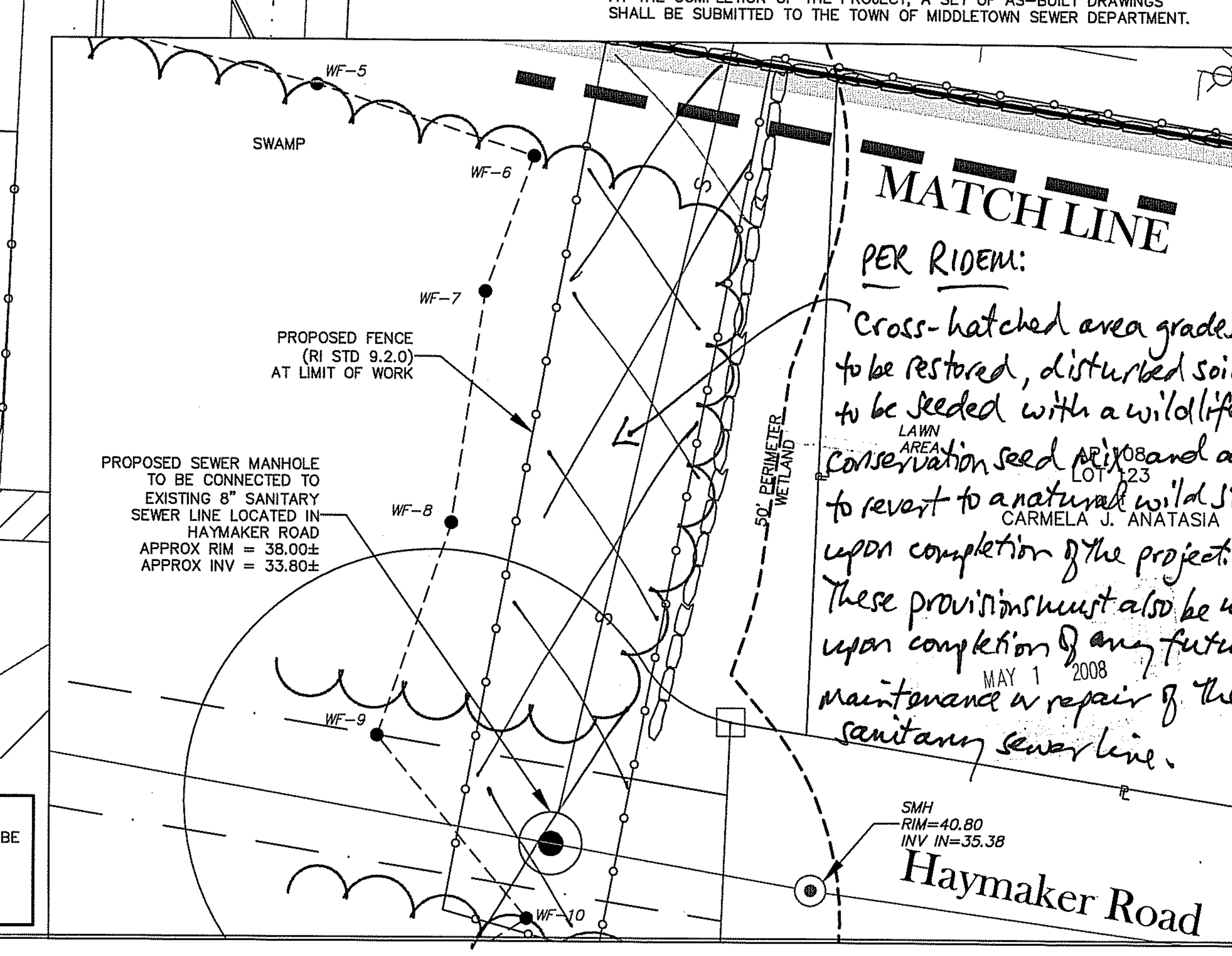
A MINIMUM OF TEN-FEET HORIZONTAL AND EIGHTEEN-INCH VERTICAL SEPARATION SHALL BE MAINTAINED IN THE PLACEMENT OF WATER MAINS, SERVICES OR APPURTENANCES WITHIN THE VICINITY OF SEWER FACILITIES OR VICE VERSA. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10-FOOT, HORIZONTAL SEPARATION OR IN THE CASE OF CROSSING THE EIGHTEEN-INCH, VERTICAL SEPARATION, 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.

THE MIDDLETOWN SEWER DEPARTMENT SHALL BE NOTIFIED FIVE DAYS PRIOR TO INSTALLATION OF A SANITARY SEWER SYSTEM SO THAT INSPECTIONS CAN BE MADE THROUGHOUT THE PROJECT.

THE TESTING OF SEWER LINES AND MANHOLES SHALL BE CONDUCTED IN THE PRESENCE OF THE MIDDLETOWN SEWER DEPARTMENT. THE MIDDLETOWN 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 MIDDLETOWN 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 MIDDLETOWN 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 MIDDLETOWN SEWER DEPARTMENT.



PER RIDEM:
Cross-hatched area grades to be restored, disturbed soils to be seeded with a wildlife conservation seed mix and allowed to revert to a natural wild state upon completion of the project. These provisions must also be undertaken upon completion of any future maintenance or repair of the sanitary sewer line.

MAY 1 2008

REVISIONS

NO.	DATE	DESCRIPTION
1	4/30/08	ADDRESSED DEM & DOT COMMENTS

DiPrete Engineering
Two Stafford Court
Cranston, Rhode Island 02920
Tel: (401) 943-1000 Fax: (401) 464-6006

LEONARD R. BRADLEY, JR.
No. 6610
REGISTERED PROFESSIONAL ENGINEER CIVIL
STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
HOPE

[illegible]

THE LAWRENCE ASSOCIATES
ARCHITECTS / PLANNERS, P.C.
1075 TOLLAND TURNPIKE, MANCHESTER, CT 06040
FAX (860) 643-4373 (860) 643-2161

STATE PROJECT NO.
PROJECT NUMBER

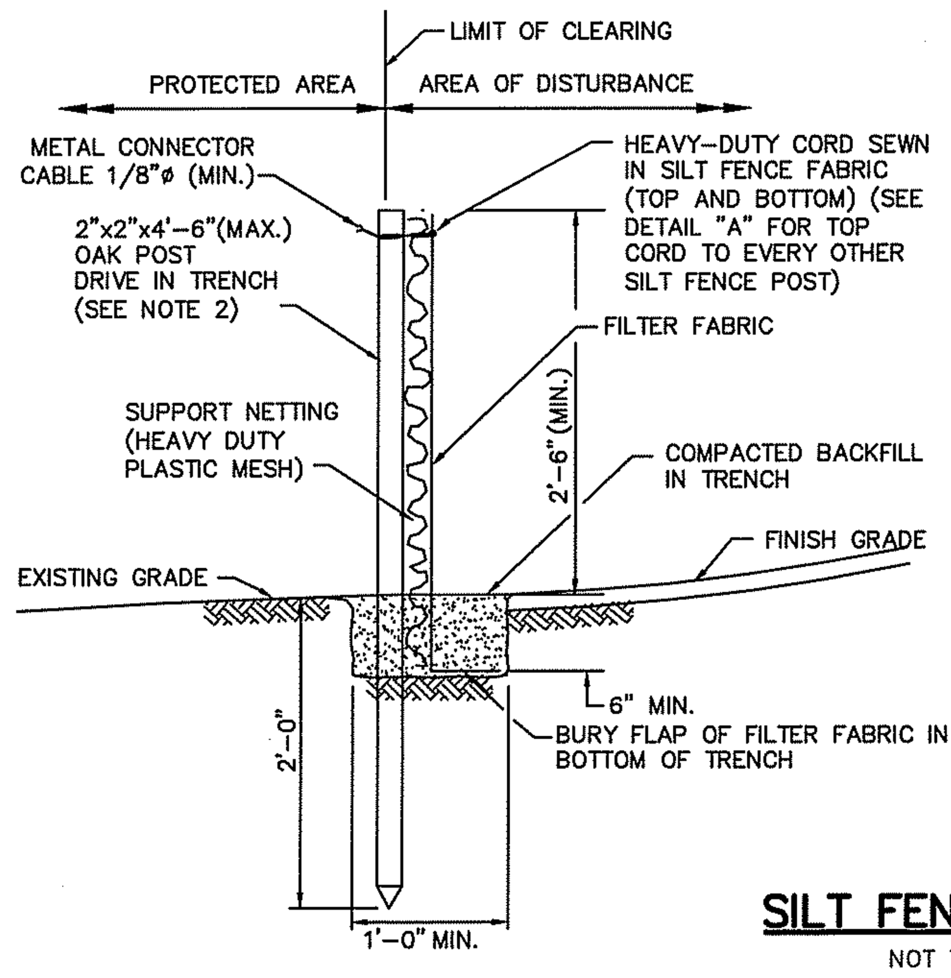
PROJECT TITLE:
Middletown Police Station
Valley Road
Middletown, Rhode Island

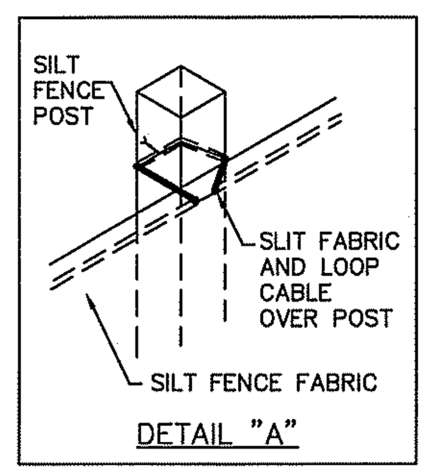
DRAWING TITLE:
UTILITY PLAN

SCALE:
DATE: 2-15-08

DWN. BY: B.D.C.

DRAWING 6 OF ~~14~~ 10



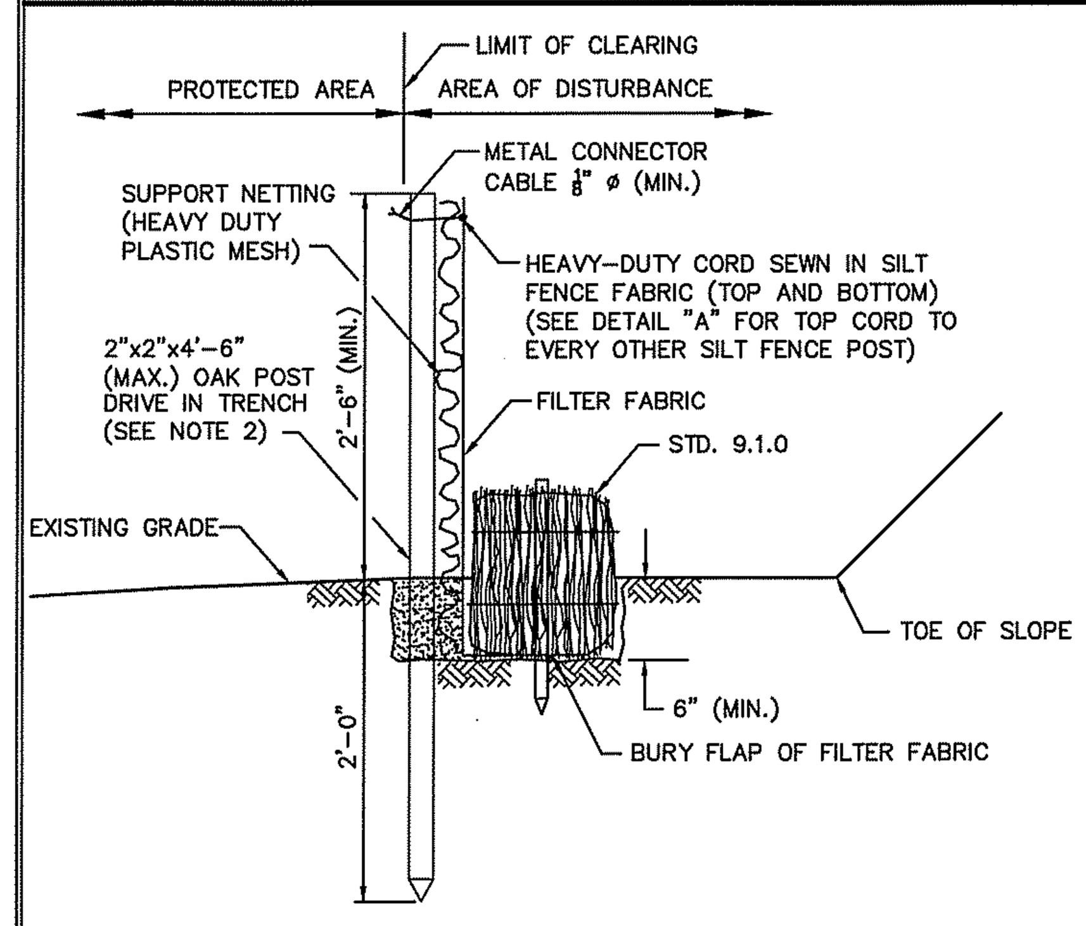


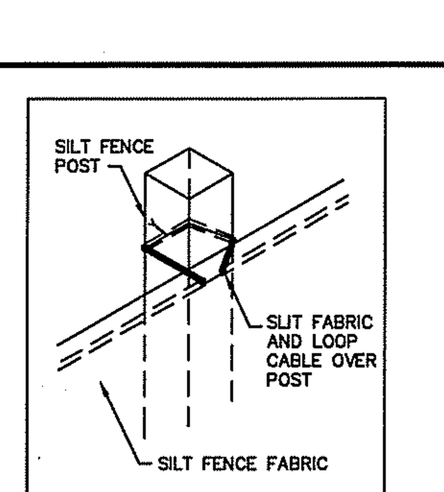
R.I. STANDARD 9.2.0

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"D (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.

SILT FENCE DETAIL

NOT TO SCALE



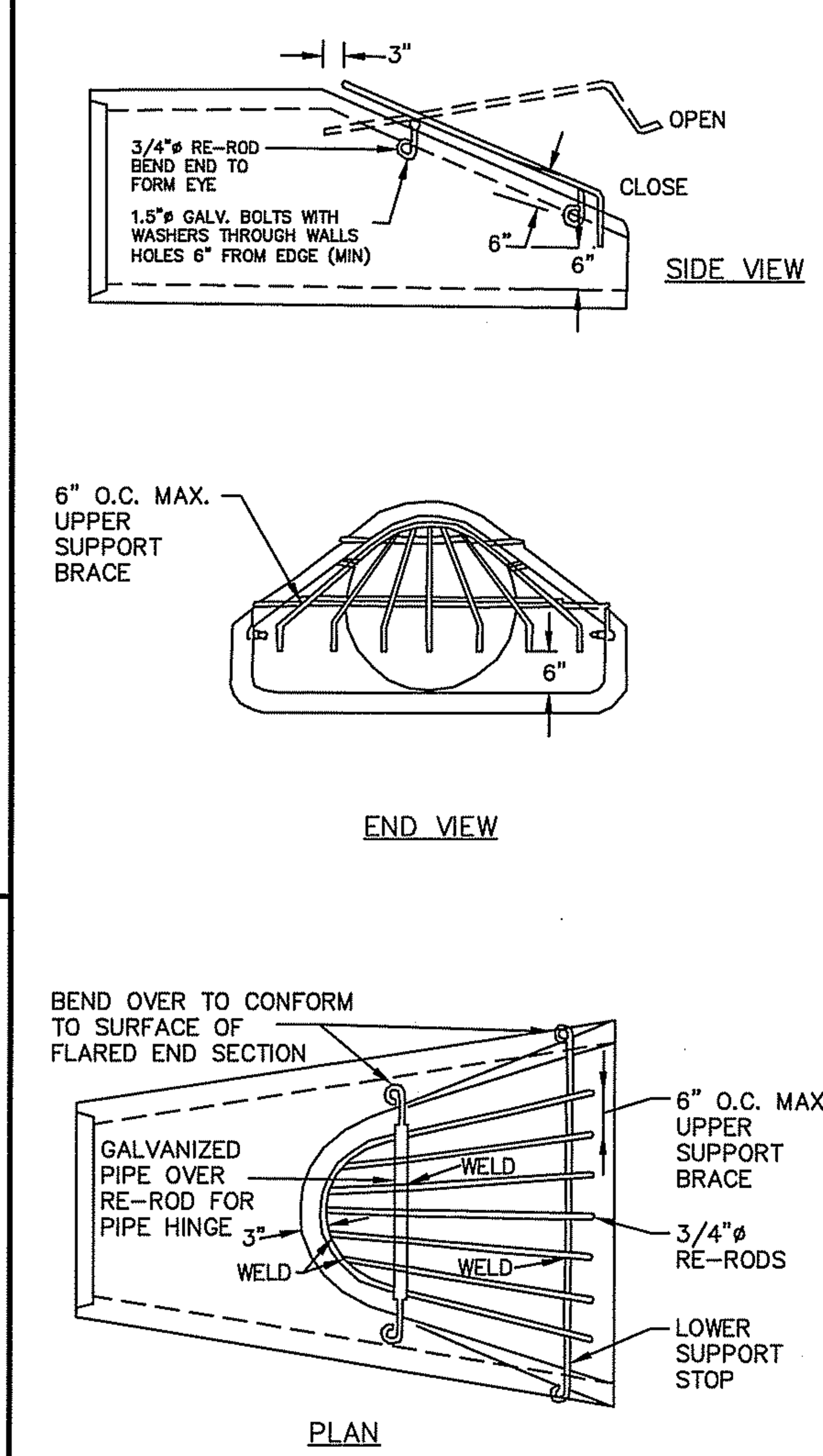


R.I. STANDARD 9.3.0

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
2. STD. 9.1.0 IS INSTALLED "TIGHT" AGAINST SILT FENCE. THOROUGHLY COMPACT EXCAVATED SOILS BACK INTO TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICE. SILT FENCE FABRIC SHALL NOT BE SLIT. STD. 9.1.0 POST SHALL BE DRIVEN THROUGH SILT FENCE FABRIC. 2"x2"x4'-6" (MAX.) OAK POST FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAVINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
3. 1"x1"x4'-6" (MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
4. SILT FENCE AND BALED HAY SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.
5. TO BE LOCATED AT ALL BASIN OUTFALLS.

BALED HAY EROSION CHECK AND SILT FENCE COMBINED

NOT TO SCALE



NOTES:
1. ALL RE-RODS ARE TO BE WELDED.
2. ALL RODS ARE TO BE GALVANIZED.

GRATING FOR FLARED END

NOT TO SCALE

SEQUENCE AND STAGING OF LAND DISTURBING ACTIVITIES

1. SURVEY AND STAKE THE PROPOSED LIMIT OF SEDIMENTATION BARRIERS AT THE PROPOSEDEVELOPMENT.

2. 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.

3. INSTALL CONSTRUCTION ENTRANCE.

4. SURVEY AND STAKE THE PROPOSED BUILDING, PARKING AREAS, DETENTION BASIN, DRAINAGE LINES AND RETAINING WALLS AT THE PROPOSED DEVELOPMENT.

5. BEGIN BASIN WORK (CLEARING AND GRUBBING, EXCAVATING AND GRADING, ETC.) TOP SOIL TO BE STRIPPED AND STOCKPILED IN APPROVED AREAS. THE STOCKPILES ARE TO BE PROTECTED BY A ROW OF SEDIMENTATION BARRIERS. STOCK-PILES TO BE COVERED OR TEMPORARILY SEEDED. DIVERT ALL THE RUNOFF FROM DISTURBED AREAS TO THE PROPOSED BASIN USING BEST MANAGEMENT PRACTICES.

6. EXCAVATE AND GRADE THE PROPOSED DETENTION BASIN, UNDERGROUND STONE STORAGE BASIN AND ROADWAY. THE DETENTION BASIN SHALL BE PERMANENTLY SEEDED FOLLOWING THE FINISH GRADING.

7. CONTRACTOR TO REMOVE ALL SILTY SOILS TO AN EXTENT OF 48" BENEATH THE BOTTOM OF THE UNDERGROUND STONE STORAGE BASIN AND REPLACE WITH SUITABLE PERVIOUS MATERIAL. REMOVED SOILS TO BE USED AS FILL ON SITE.

8. CONTRACTOR TO ROUGH GRADE AREAS OF UNDERGROUND STONE STORAGE BASIN. AREA TO BE FILLED WITH STONE AND ALL PIPING TO INSTALLED AS SHOWN ON PLAN.

9. BEGIN CONSTRUCTION OF THE PROPOSED BUILDING.

10. INSTALL DRAIN PIPING, DRAINAGE MANHOLES AND CATCH BASINS BEGINNING AT THE DETENTION BASIN AND WORKING UPGRADIENT. PROTECT DISCHARGE OUTLETS WITH RIP-RAP APRONS. PLACE EROSION CONTROLS AT THE DISCHARGE POINTS AND SEED THE DETENTION BASIN AND DISTURBED AREAS OUTSIDE OF THE AREA TO BE PAVED. THE DETENTION BASIN AND DRAINAGE NETWORK ARE TO BE PROTECTED FROM RUNOFF UNTIL ALL UNSTABILIZED AREAS ARE STABILIZED WITH VEGETATION.

11. ONCE THE INSTALLATION OF THE DRAINAGE NETWORK IS COMPLETE INSTALL THE WATERLINE, INDIVIDUAL WATER SERVICE FOR BUILDING AND OTHER UNDERGROUND UTILITIES SUCH AS; ELECTRIC, TELEPHONE, AND CABLE IN ACCORDANCE WITH THE APPROVED FINAL PLANS.

12. BEGIN PARKING AREA CONSTRUCTION, RETAINING WALLS AND SIDEWALKS. RETAINING WALLS TO BE CONSTRUCTED WHEN FOUNDATION IS FORMED AND POURED.

13. BRING SITE TO ROUGH GRADE AS SOON AS POSSIBLE. EXISTING SUBGRADE UNDER PAVEMENT AREAS SHALL NOT BE COMPACTED OR SUBJECTED TO EXCESSIVE CONSTRUCTION EQUIPMENT TRAFFIC. LIGHTLY REGRADE ANY AREAS DAMAGED BY TRAFFIC COMPACTION BEFORE THE PLACING OF STONE. ALL AREAS UPSLOPE OF POROUS PAVEMENT SHALL BE STABILIZED PRIOR TO PLACING ANY GEOTEXTILE FABRIC OR STONE BASE.

14. PLACE PAVEMENT GEOTEXTILE FABRIC AND STONE BASE.

15. INSTALL CHOKER BASE COURSE AND PLACE ASPHALT. AFTER PAVEMENT IS PLACED, POROUS PAVEMENT IS TO BE TESTED AND APPROVED BY A PROFESSIONAL GEOTECHNICAL ENGINEER.

16. BEGIN LANDSCAPING WHILE BUILDING IS UNDER CONSTRUCTION.

17. FINISH BUILDING AND PARKING LOT CONSTRUCTION.

18. FINISH PERMANENT STABILIZATION IN REMAINING AREAS OF SITE.

19. VACUUM AND PRESSURE WASH THE POROUS PAVEMENT AS OUTLINED IN SECTION 6.0 TO REMOVE ALL SEDIMENTS.

20. FINISH LANDSCAPING, AND PERMANENT STABILIZATION. SWEEP THE REMAINING PARKING AREAS TO REMOVE ALL SEDIMENTS.

21. REPAIR DRAINAGE AREAS/BASIN AS REQUIRED. TREE LIMBS, LEAVES BOULDERS, ETC. SHALL BE REMOVED FROM THE BOTTOM OF DETENTION BASIN BEFORE THE APPLICATION OF TOP SOIL. PLACE TOPSOIL IN BOTTOM OF DETENTION BASIN AND BRING TO PERMANENT BOTTOM ELEVATION.

22. CLEAN AND FLUSH THE DRAINAGE SYSTEM, STRUCTURES AND BASIN AS REQUIRED.

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

24. CONSTRUCTION TO COMMENCE DURING SPRING OF 2008, PENDING THE RECEIPT OF ALL NECESSARY APPROVALS.

MAINTENANCE: SHORT TERM/LONG TERM

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

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 EVENT OR EVERY 7 DAYS, WHICHEVER COMES FIRST, FOR UNDERMINING AND DETERIORATION. A STORM EVENT SHALL BE DEFINED AS 0.25 INCHES OF RAIN WITHIN A 24-HOUR PERIOD. THE HAY BALES/SILT FENCE SHALL BE REPAIRED OR REPLACED AS WARRANTED. THE CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE HAY BALES/SILT FENCE BECOMES FILLED IN WITH SEDIMENT. THE HAY BAILS/SILT FENCE SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED. FOLLOWING CONFIRMATION FROM THE TOWN OF MIDDLETOWN AND OR THE PROJECT ENGINEER THAT AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER HAS BEEN ESTABLISHED THE HAY BAILS/SILT FENCE SHALL BE REMOVED.

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

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 (I.E. TOWN OF MIDDLETOWN).

5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND INSPECTION OF THE DETENTION BASIN DURING CONSTRUCTION. THE CONTRACTOR'S MAINTENANCE/INSPECTION RESPONSIBILITIES SHALL INCLUDE RESEEDING ANY UNSTABILIZED AREAS WITHIN THE BASINS AT NO ADDITIONAL EXPENSE TO THE OWNER, REMOVING ACCUMULATED SILT WHEN SEDIMENTS IN THE BASINS REACHES 0.39 FEET FOR POND A. THE CONTRACTOR SHALL INSPECT RIP RAP PADS AFTER EACH STORM AND REPAIR AS NECESSARY.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION, MAINTENANCE AND REPAIR TO ALL DRAINAGE STRUCTURES AND RELATED APPURTENANCES ON THE SITE DURING CONSTRUCTION AND IMMEDIATELY FOLLOWING CONSTRUCTION FOR A MAXIMUM OF ONE YEAR FOLLOWING CONSTRUCTION, OR UNTIL ACCEPTANCE BY THE ENGINEER AND THE OWNER (I.E. TOWN OF MIDDLETOWN).

7. FOR THE FIRST SIX (6) MONTHS OF OPERATION, THE CONTRACTOR'S RESPONSIBILITIES SHALL ALSO INCLUDE INSPECTION OF THE BASIN AND RIP RAP PADS MONTHLY AND AFTER MAJOR STORMS TO CHECK FOR CLOGGING OR, CONVERSELY, TOO RAPID A RELEASE. AFTER SIX (6) MONTHS, INSPECTIONS SHALL BE CONDUCTED, AT MINIMUM, ANNUALLY. IF REPAIRS ARE NEEDED, THEY SHALL BE CARRIED OUT IMMEDIATELY. THE CONTRACTOR SHALL MAINTAIN A GOOD VEGETATIVE COVER (GRASS BETWEEN 2"-10" OR VEGETATION AS SPECIFIED). THE BOTTOM OF THE DETENTION BASIN SHALL BE INSPECTED AT LEAST TWICE PER YEAR, AND ACCUMULATED SEDIMENTS SHALL BE REMOVED AFTER ONE YEAR AND WHEN THEY REACH THE HEIGHT SPECIFIED IN THE SEDIMENT VOLUME CALCULATIONS (DEPTH = 0.39 FEET) OR EVERY 10 YEARS, WHICHEVER COMES FIRST.

8. THE CONTRACTOR SHALL MAINTAIN THE DRAINAGE NETWORK DURING CONSTRUCTION. THE ACCUMULATED SEDIMENTS IN THE CATCH BASINS SHALL BE REMOVED AND DRAINAGE PIPES FLUSHED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION. CATCH BASIN SUMPS SHALL BE CHECKED WEEKLY AND SEDIMENTS SHALL BE REMOVED IF THEY EXCEED 6" DEPTH.

9. IF STANDING WATER PERSISTS 72 HOURS AFTER A STORM EVENT WITHIN THE UNDERGROUND SYSTEM, THE UNDERGROUND STORAGE BASIN SHALL UNDERGO MAINTENANCE IMMEDIATELY AND NON-IMPROVEMENT OF CONDITIONS THEREAFTER WILL CALL FOR CONTRACTOR REPLACEMENT OF THE SYSTEM AND/OR IMPROVEMENT OF THE SURROUNDING STONE.

10. AFTER ACCEPTANCE OF THE EARLY DEVELOPMENT STAGE OF THE PROJECT BY THE OWNER AND PROJECT ENGINEER, THE OWNER SHALL HAVE OVERALL RESPONSIBILITY FOR IMPLEMENTING THE MAINTENANCE PROGRAM FOR THE STORMWATER MANAGEMENT SYSTEM.

11. THE POROUS PAVEMENT MUST BE WELL MAINTAINED TO ENSURE PROPER FUNCTIONING. ON A MONTHLY BASIS ENSURE THAT THE PAVEMENT AREA IS FREE FROM DEBRIS AND SEDIMENTS AND DEWATERS BETWEEN STORMS. ON A QUARTERLY BASIS THE PAVEMENT SHOULD BE VACUUMED AND PRESSURE WASHED. NO SANDING SHALL BE PERMITTED ONSITE FOR ANY PURPOSE. SNOW AND ICE SHALL BE CONTROLLED USING AN ENVIRONMENTALLY FRIENDLY DE-ICING SALT (ICE BAN OR APPROVED EQUAL). SNOW PLOWING MAY BE NECESSARY IN EXTREME CASES. IF PLOWING IS REQUIRED THE BLADE SHALL BE SET A MINIMUM 1" ABOVE THE PAVEMENT SURFACE TO PREVENT THE PLOW BLADE FROM CONTACTING THE PAVEMENT SURFACE. THE PAVEMENT SHALL BE INSPECTED ON AN ANNUAL BASIS FOR DETERIORATION AND SPALLING.

12. ON SITE TESTING BY AN EXPERIENCE PROFESSIONAL SHALL BE CONDUCTED TO ENSURE PROPER MATERIALS AND CONSTRUCTION PRACTICES ARE BEING UTILIZED. A TEST AREA OF POROUS PAVEMENT SHALL BE CLOSELY MONITORED FOR DURABILITY AND FUNCTION AS PER THE GUIDELINES SET BY THE RIDEM.

13. MAINTENANCE WITHIN THE UNDERGROUND STORAGE BASIN SHALL CONSIST OF INSPECTION OF THE BASIN SEMI ANNUALLY, TO OCCUR WITHIN 72 HOURS OF A RAINFALL EVENT. IF IT IS FOUND THAT THE SYSTEM ARE NOT INFILTRATING STORMWATER AFTER 72 HOURS FOLLOWING A RAINFALL EVENT, THE OWNER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF THE APPROPRIATE SYSTEM COMPONENTS.

14. THE OUTLET CONTROL STRUCTURE AND ALL OUTFLOW CHANNELS SHALL BE INSPECTED ANNUALLY.

15. ALL EXTENDED DETENTION AREAS SHALL BE INSPECTED AT LEAST TWICE PER YEAR.

16. ALL RIPRAP AREAS, AS WELL AS THE BASIN EMERGENCY SPILLWAYS, SHALL BE INSPECTED ANNUALLY. ALL ERODED AREAS SHALL BE REPAIRED IMMEDIATELY, AND VEGETATIVE GROWTH SHALL BE REMOVED FROM THESE AREAS.

17. THE GRASSED AREAS OF THE BASIN SHALL BE INSPECTED AT LEAST TWICE PER YEAR TO CHECK FOR EROSION PROBLEMS. ERODED AREAS SHALL BE RESEEDED IMMEDIATELY TO STABILIZE SOILS, PREVENTING EROSION OF POTENTIAL CLOGGING OF OUTFLOW DEVICES.

18. THE GRASS SHALL BE MOWED WITHIN THE BASIN AT LEAST TWICE PER GROWING SEASON TO PREVENT THE GROWTH OF WOODY VEGETATION. ALL TRASH AND LITTER SHALL BE REMOVED DURING THE MOWING OPERATIONS.

19. IF STANDING WATER IS OBSERVED WITHIN ANY OF THE BASINS MORE THAN THREE (3) DAYS AFTER A RAINFALL, THEN FAILURE OF THE BASIN HAS OCCURRED AND SHALL BE ADDRESSED THROUGH MAINTENANCE, REPAIR OR REPLACEMENT.

20. CATCH BASINS AND CLOSED PIPES SHALL BE INSPECTED ANNUALLY. ANY DAMAGED AREAS SHALL BE REPAIRED IMMEDIATELY, AND ALL TRASH, LITTER AND SEDIMENT SHALL BE REMOVED DURING THE INSPECTION.

STRUCTURAL MEASURES

1. 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.
2. RUNOFF WATER QUALITY IS IMPROVED UTILIZING WATER QUALITY/SEDIMENTATION AND EXTENDED DRY DETENTION BASINS AND OTHER BEST MANAGEMENT PRACTICES (BMP). CONSTRUCTION OF THE DETENTION BASINS SHALL BE SUPERVISED BY THE PROJECT 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 3:1 MAXIMUM, UNLESS NOTED OTHERWISE. ALL EMBANKMENTS OF THE BASINS SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH R.I. STANDARD SPECIFICATION SECTION 202. THE EMERGENCY SPILLWAY SHALL BE PROTECTED BY RIP RAP DOWNSTREAM AND UPSTREAM. A GRADUATED GAGE IS TO BE SET WITHIN THE BASIN TO MONITOR ACCUMULATED SEDIMENTS.
3. A STONE STABILIZATION PAD IS LOCATED AT THE SITE ENTRANCE TO REDUCE THE TRACKING OR FLOWING OF SEDIMENT ONTO THE PUBLIC RIGHT OF WAY.
4. RIP RAP APRONS AND/OR LEVEL SPREADERS SHALL BE INSTALLED AT THE OUTLETS OF ALL DRAINAGE PIPES.
5. HAY BALES OR SILT FENCE AND HAY BALES 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. TEMPORARY BERMS AND/OR SWALES SHALL BE USED TO DIRECT SURFACE RUNOFF TO DRAINAGE FACILITIES TO CAPTURE AND TREAT THE MAXIMUM PRACTICAL AMOUNT OF STORM WATER.

NONSTRUCTURAL MEASURES

1. 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.
2. CONSTRUCTION TRAFFIC SHALL BE LIMITED TO THE ACCESS ROAD AND AREAS TO BE GRADED.
3. TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER USE. STOCKPILE LOCATION SHALL BE AS SHOWN ON CONSTRUCTION PLANS OR AS APPROVED BY THE PROJECT ENGINEER. A SEDIMENT BARRIER OF STAKED HAYBALES AND/OR SILT FENCE SHALL SURROUND ALL TOPSOIL STOCKPILES.
4. 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 DISPOSED OF DAILY TO AVOID EXPOSURE TO PRECIPITATION.

ESTABLISHMENT OF VEGETATIVE COVER

1. THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION AND FOR SEEING THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS OF PERMANENT SEEDING THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE OWNER.
2. SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE 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.
3. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED OR PROTECTED.
4. 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.18.
5. PERMANENT SEEDING APPLICABLE RATE WILL BE 100 LBS/ AC. THE SEEDING DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING:

TYPE	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. SEEDING SCHEDULE SHOULD CONFORM WITH RHODE ISLAND'S STANDARD SPECIFICATION, L.02.03.1 SEEDING DATES. PERMANENT SEEDING SHALL BE DURING MARCH 15 TO JUNE 15 OR SEPTEMBER 15 TO NOVEMBER 15. TEMPORARY SEEDING MAY BE DONE ANYTIME BETWEEN MARCH 15 AND NOVEMBER 15 WITH THE APPROVAL OF THE ENGINEER OF RECORD. FERTILIZE AS REQUIRED BY SOIL TESTING TO COMPLIMENT OR UPGRADE EXISTING CONDITIONS. THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS AND BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUMS FOR EACH VARIETY.

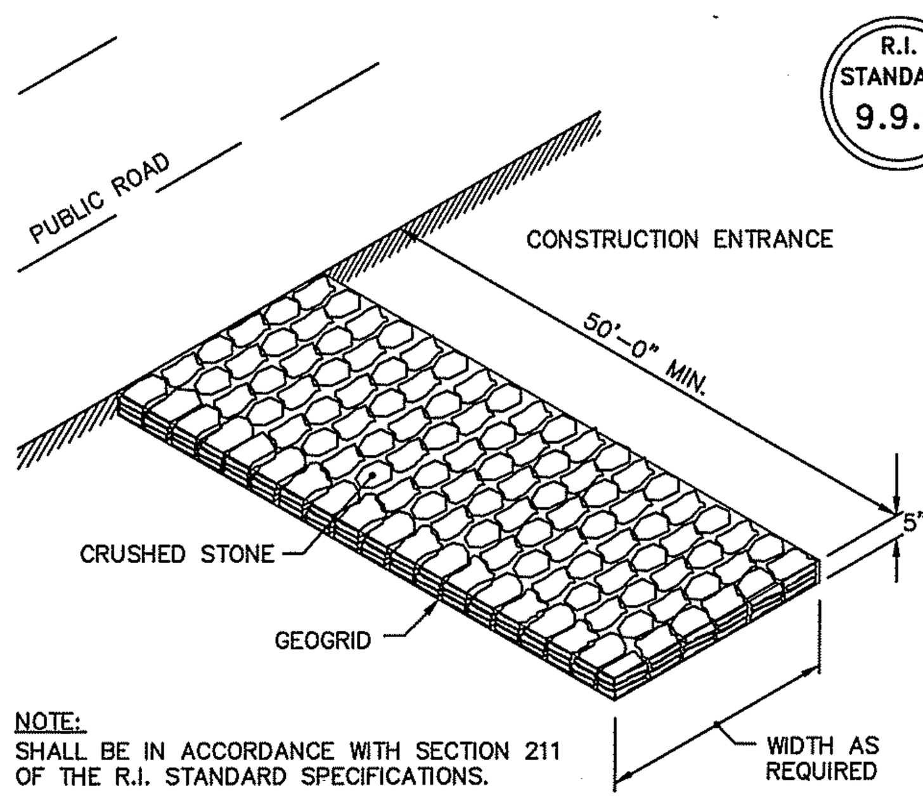
6. TEMPORARY SEEDING SHALL BE 75 LBS/AC. THE TEMPORARY SEEDING MIX SHALL BE COMPRISED OF THE FOLLOWING:

TYPE	LBS/AC
ANNUAL RYEGRASS	30
PERRENNIAL RYEGRASS	45

7. FERTILIZER SHOULD BE APPLIED IN CONFORMANCE WITH THE RHODE ISLAND'S STANDARD SPECIFICATIONS L.02.03.4 APPLICATION OF FERTILIZER. THE COMMERCIAL FERTILIZER USED ON SITE SHOULD ALSO CONFORM TO RHODE ISLAND'S STANDARD SPECIFICATIONS M.18.06.02 FERTILIZER FOR TREES, SHRUBS, VINES, PERENNIALS, ORNAMENTAL GRASSES, GROUND COVERS, AND BULBS.
8. 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 TACKED 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. ALL TEMPORARY STABILIZERS SHALL CONFORM TO RHODE ISLAND'S STANDARD SPECIFICATIONS M.18.09 SEED STABILIZER MATERIALS.
9. ALL HAY BALES OR OTHER TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
10. STOCKPILES OF TOPSOIL OR SUBSOIL SHALL BE LOCATED AS SHOWN ON CONSTRUCTION PLANS. IF ADDITIONAL STOCKPILES ARE NECESSARY OR IF STOCKPILES MUST BE RELOCATED THEY SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDED AND/OR STABILIZED.
11. ALL AREAS PROPOSED TO BE VEGETATED THAT ARE DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISH GRADING. PERMANENTLY SEEDED AREAS SHALL BE PROTECTED DURING ESTABLISHMENT WITH MULCH. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STANDARD IS MAINTAINED. WELL ESTABLISHED VEGETATION SHALL BE MAINTAINED. BARE OR ERODED AREAS SHALL BE IMMEDIATELY REPAIRED AND RESEEDED BY THE CONTRACTOR. ACTIVITIES SHALL BE CONFINED TO WITHIN THE LIMIT OF WORK AS SHOWN ON THE PLANS.
12. MAXIMUM PERMANENT GRADED SLOPE WITHIN THE SITE IS TO BE 3:1 UNLESS NOTED OTHERWISE.

MAY 1 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

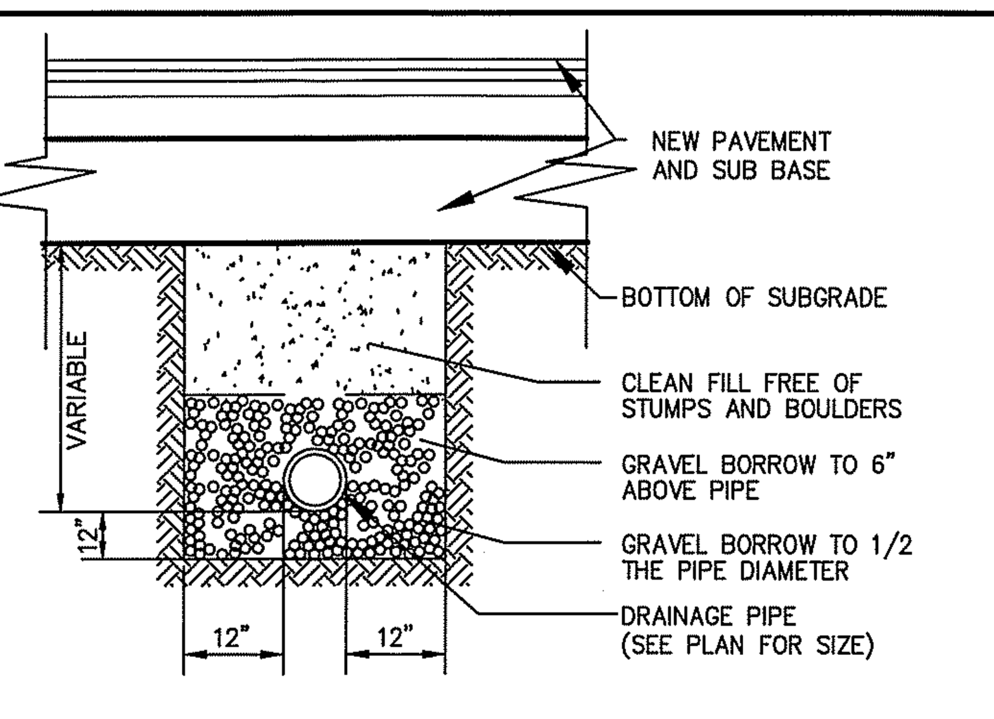


R.I. STANDARD 9.9.0

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

CONSTRUCTION ACCESS

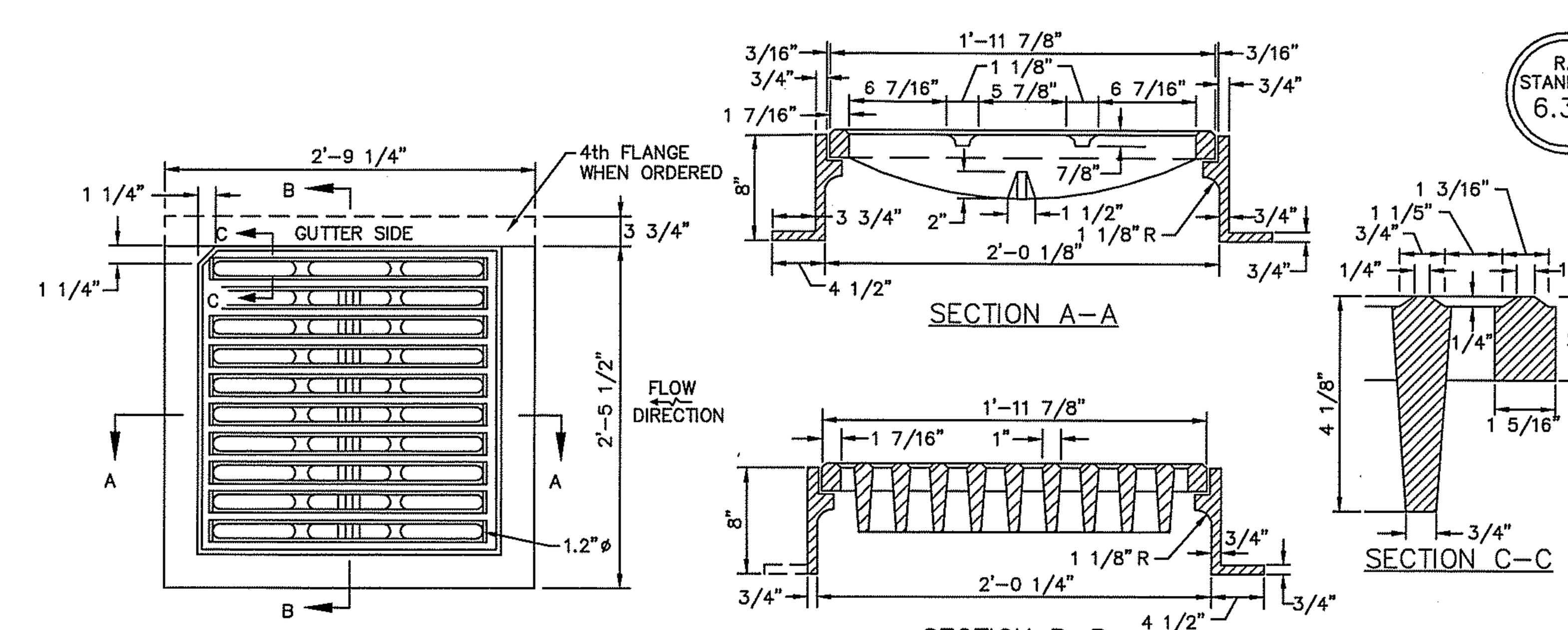
NOT TO SCALE



DRAINAGE PIPE TO BE RCP
PIPE TO BE APPROVED BY DESIGN ENGINEER PRIOR TO INSTALLATION

DRAINAGE TRENCH DETAIL

NOT TO SCALE



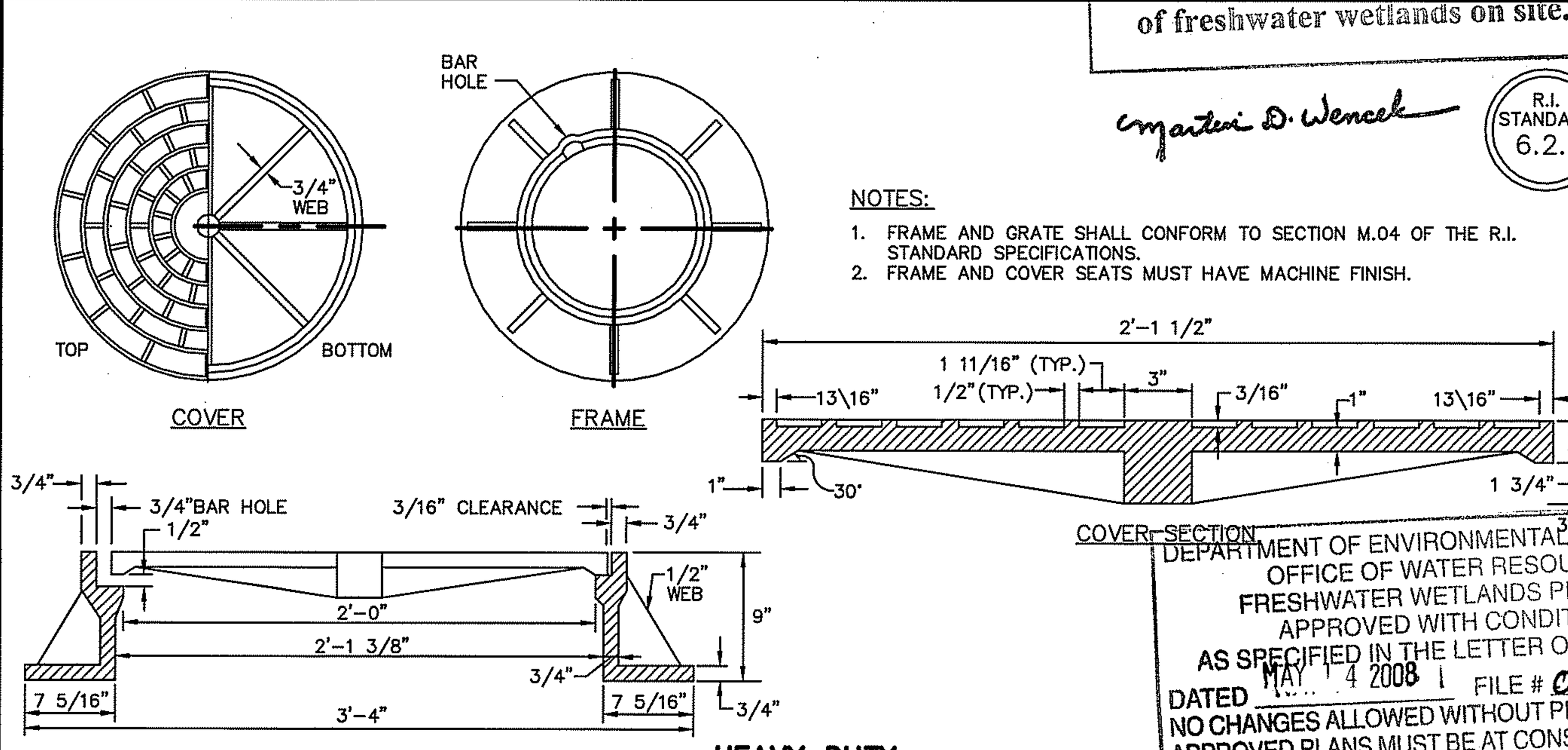
R.I. STANDARD 6.3.2

SQUARE FRAME AND GRATE (BICYCLE SAFE)

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.

Martin D. Wencek



R.I. STANDARD 6.2.1

NOTES:
1. FRAME AND GRATE SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.
2. FRAME AND COVER SEATS MUST HAVE MACHINE FINISH.

HEAVY-DUTY ROUND FRAME AND COVER

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 MAY 14 2008 FILE # 08-0038
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wencek

REVISIONS

NO.	DATE	DESCRIPTION
1	4/30/08	ADDRESSED DEM & DOT COMMENTS

DiPrete Engineering
Two Stafford Court
Cranston, Rhode Island 02920
Tel: (401) 943-1000 Fax: (401) 464-6006

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

THE LAWRENCE ASSOCIATES
ARCHITECTS / PLANNERS, P.C.
1075 TOLLAND TURNPIKE, MANCHESTER, CT 06040 (860) 643-2161
FAX: (860) 643-4373

PROJECT NUMBER | STATE PROJECT NO.

PROJECT TITLE:
Middletown Police Station
Valley Road
Middletown, Rhode Island

DRAWING TITLE:
DETAIL SHEET 1

SCALE: | DATE: 2-15-08

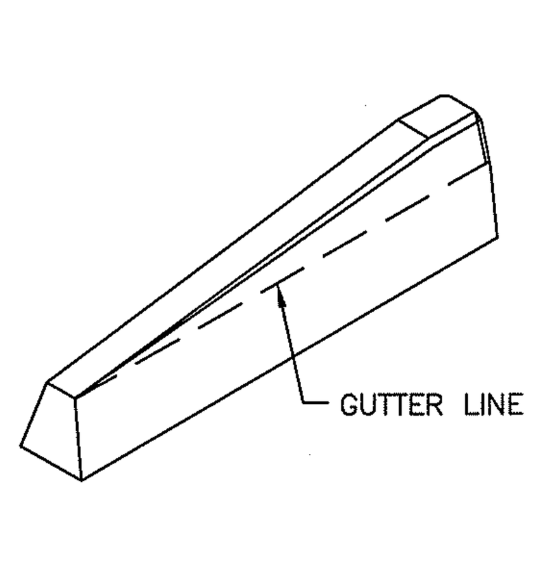
DWN. BY: B.D.C.

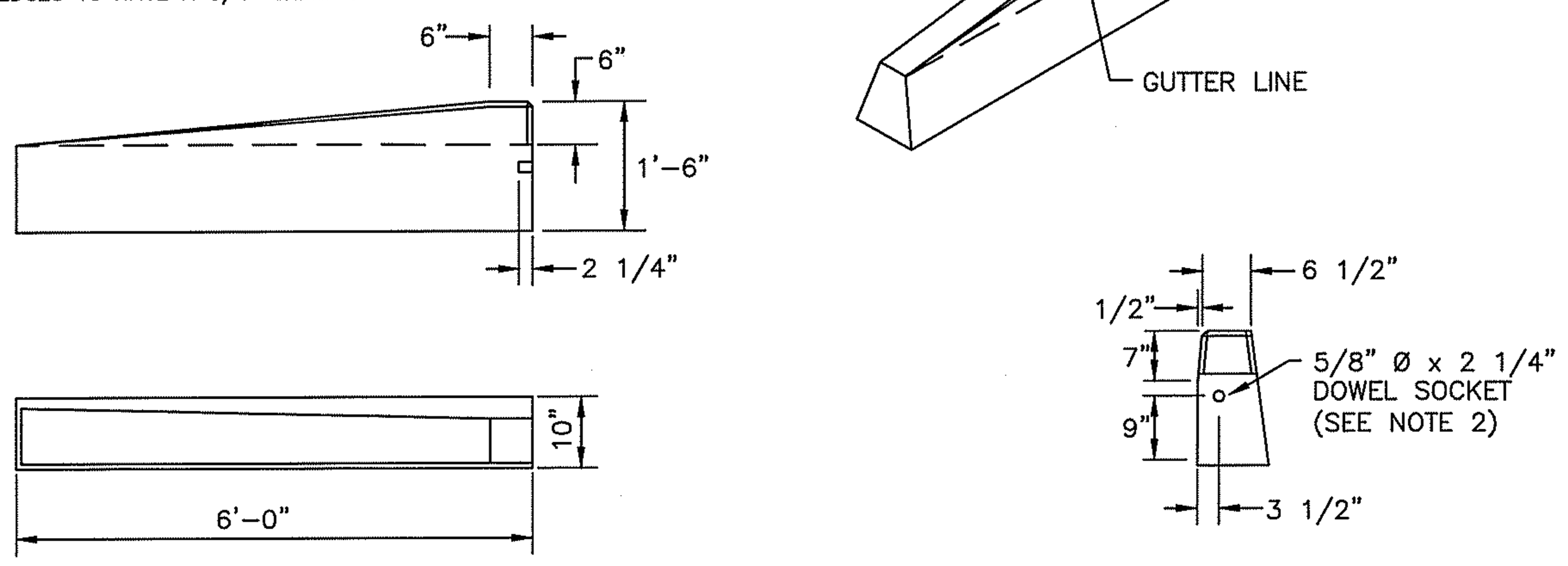
DRAWING ~~9~~ 7 OF ~~14~~ 10

\\DEAstorage\DEAmain\Engineers3\Projects\1319-002 Middletown\dwg\1319-002 Plotting Set.dwg, 4/30/2008 3:57:24 PM, Brandon, DWFG ePlot.pc3

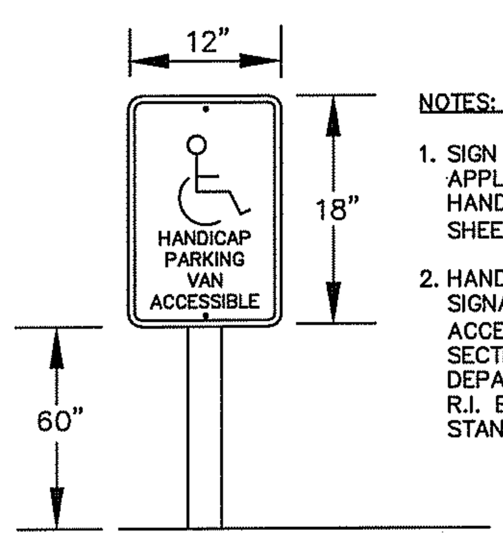
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
2. DRAWING SHOWS TRANSITION CURB FOR ONE DIRECTION. FOR OTHER DIRECTION USE OPPOSITE HAND AND INCLUDE A 1/2"ø x 4" EPOXY COATED DOWEL.
3. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
4. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.

R.I. STANDARD 7.1.2





6'-0" PRECAST CONCRETE TRANSITION CURB
NOT TO SCALE



NOTES:
1. SIGN SHALL BE PLACED BEHIND APPLICABLE VAN ACCESSIBLE OR HANDICAP SPACE AS SHOWN ON SHEET 4 (SITE 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.

TYPICAL HANDICAPPED PARKING POST & SIGN
NOT TO SCALE

STANDARD 27.1.0

SIGN NUMBER		R6-1 (R OR L)
LEGEND		ONE WAY
COLOR	BACKGROUND	BLACK-ARROW WHITE
	COPY	BLACK
SIGN DIMENSION	WIDTH	36"
	HEIGHT	12"

SIGN NUMBER		R1-1			
LEGEND		STOP			
COLOR	BACKGROUND	RED			
	COPY	WHITE			
SIGN DIMENSION	WIDTH	24"	30"	36"	48"
	HEIGHT	24"	30"	36"	48"

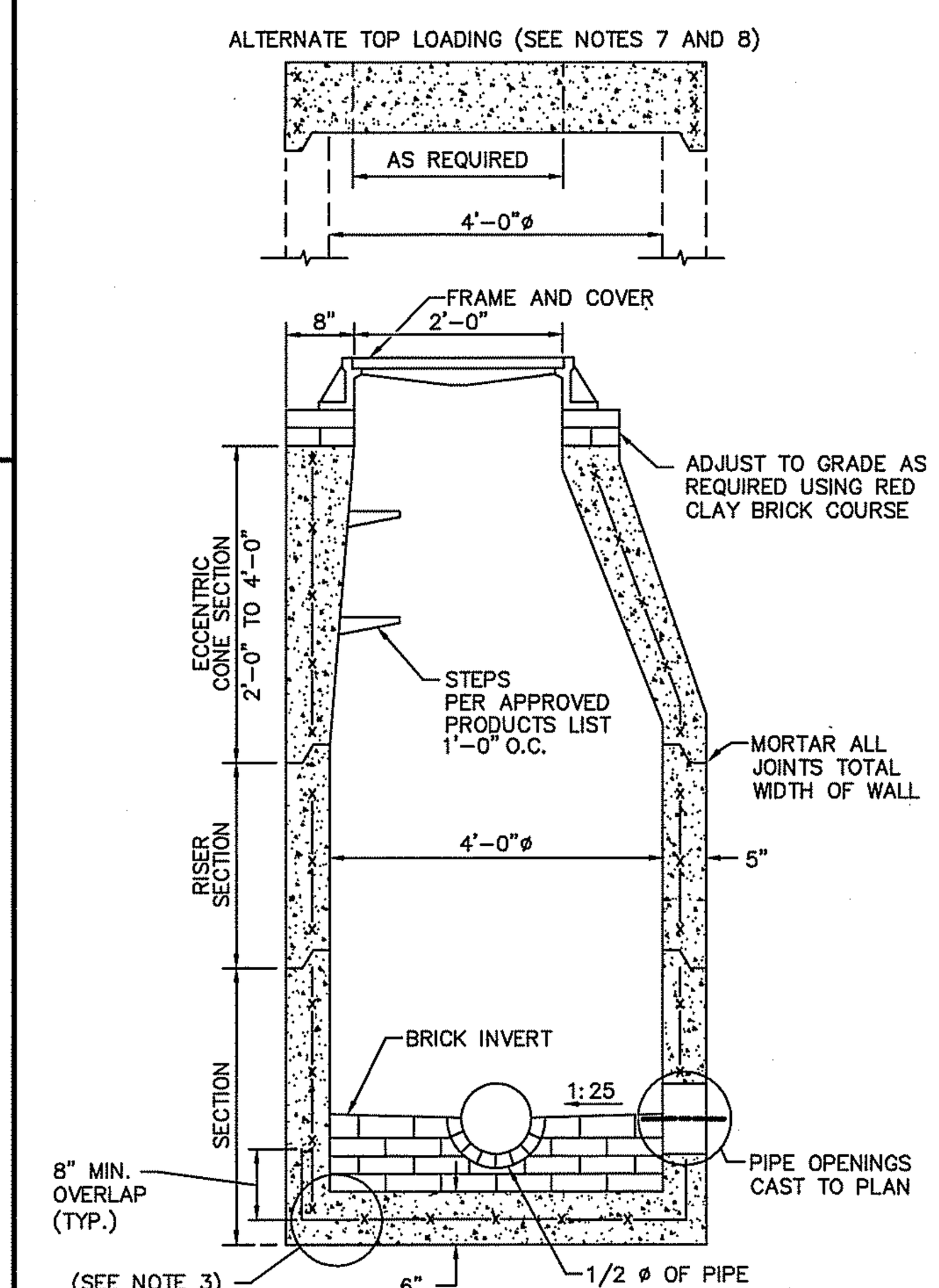
SIGN NUMBER		R3-2
LEGEND		
COLOR	BACKGROUND	WHITE
	ARROW	BLACK
	CIRCLE	RED
SIGN DIMENSION	WIDTH	24"
	HEIGHT	24"

SIGN NUMBER		R5-1		
LEGEND		DO NOT ENTER (RED, RED, WHITE)		
COLOR	BACKGROUND	RED		
	COPY	WHITE		
SIGN DIMENSION	WIDTH	30"	36"	48"
	HEIGHT	30"	36"	48"

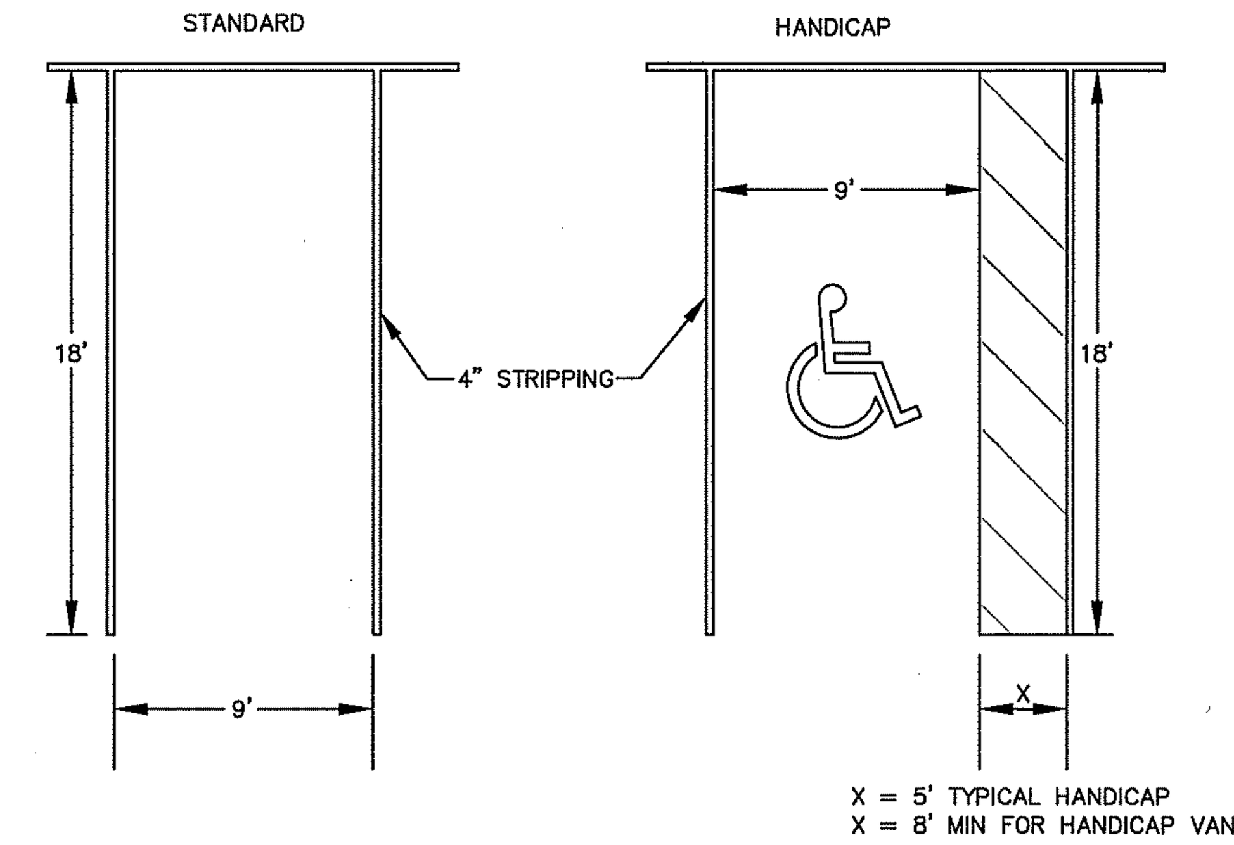
REGULATORY SIGNS
NOT TO SCALE

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS. MINIMUM.
2. CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.12 SQ. IN/LIN. FT.
3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN. / LIN. FT. (BOTH WAYS).
4. ONE POUR MONOLITHIC BASE SECTION.
5. 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.
6. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
7. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
8. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
9. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

R.I. STANDARD 4.2.0



PRECAST 4'-0" ROUND MANHOLE
NOT TO SCALE



TYPICAL PARKING SPACES
NOT TO SCALE

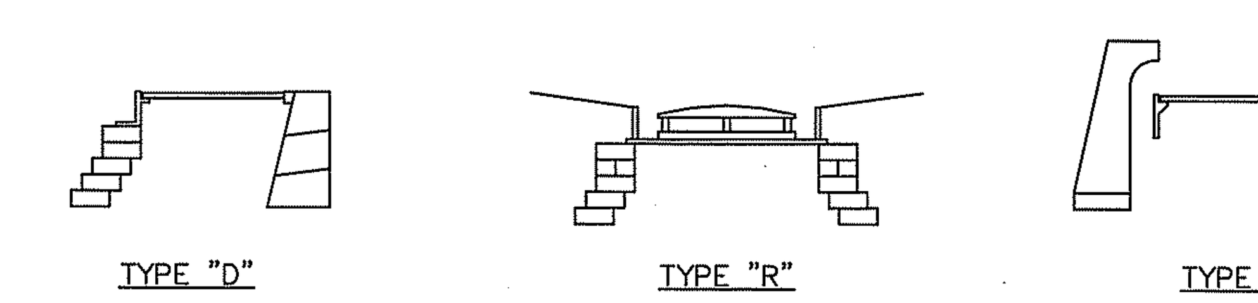
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 1 4 2008 FILE # 08-0038
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Martin D. Wencek

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

R.I. STANDARD 4.4.0



TYPE CATCH BASIN AS REQUIRED

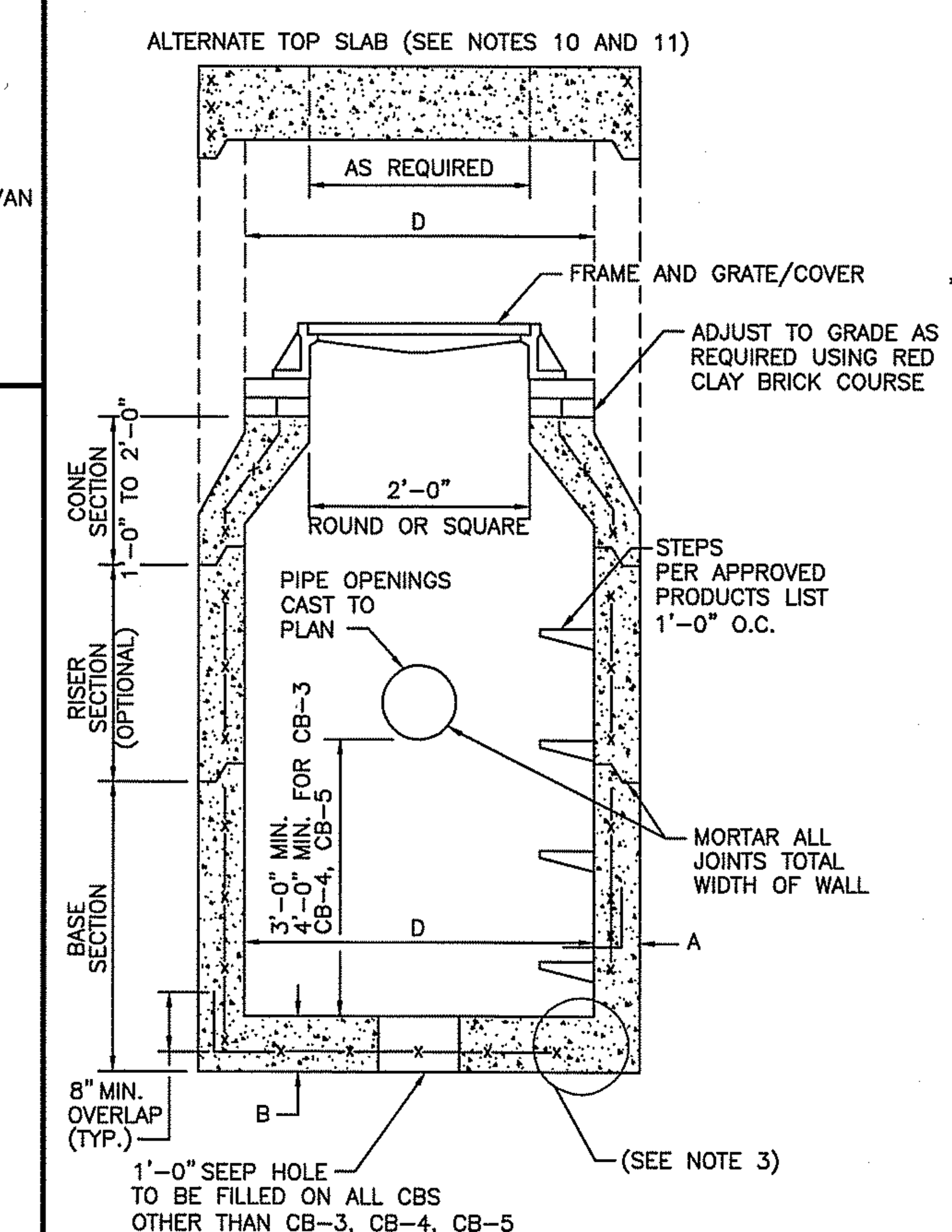


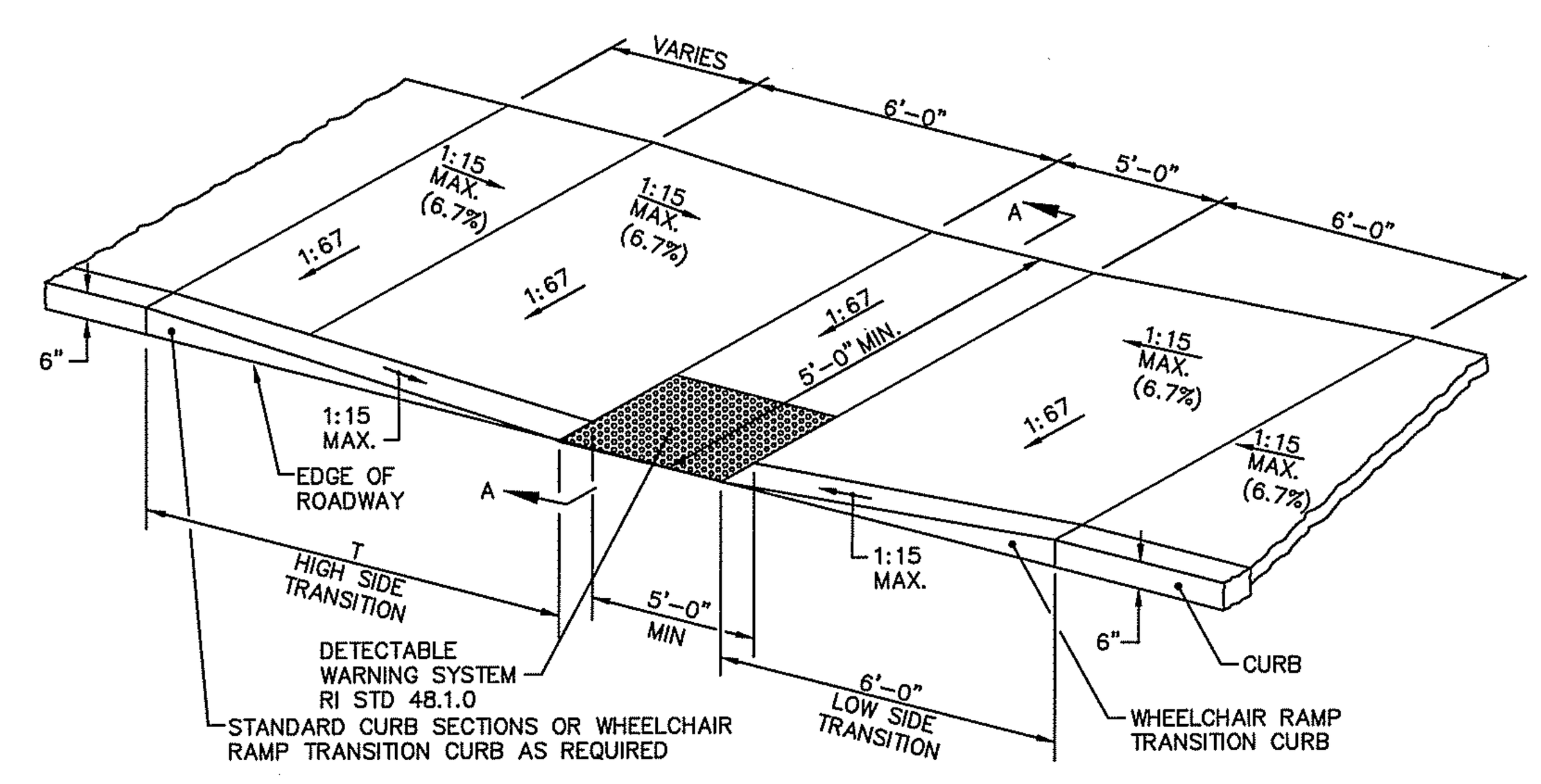
TABLE 1

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

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

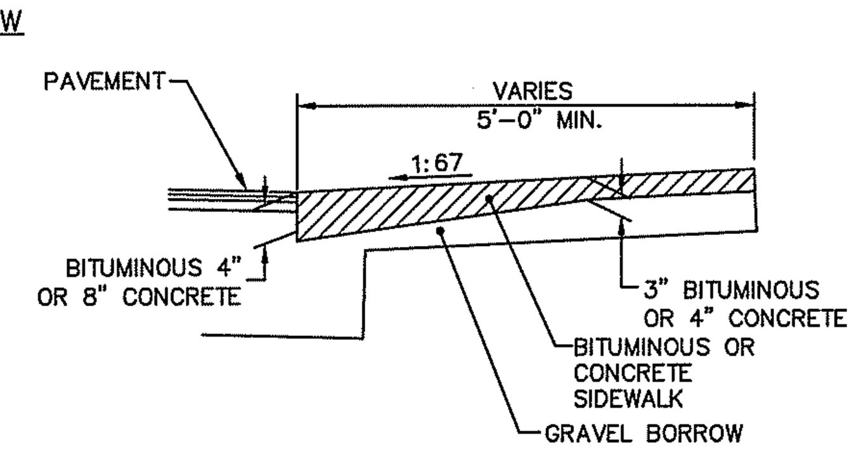
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.
3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
4. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED 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 STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
11. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
12. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

PRECAST ROUND CATCH BASIN
NOT TO SCALE



ISOMETRIC VIEW
NOT TO SCALE

ROADWAY PROFILE GRADE	T (FT.)
0.00	7.5
0.01	9.0
0.02	11.0
0.03	13.5
0.04	19.0
0.05	30.0

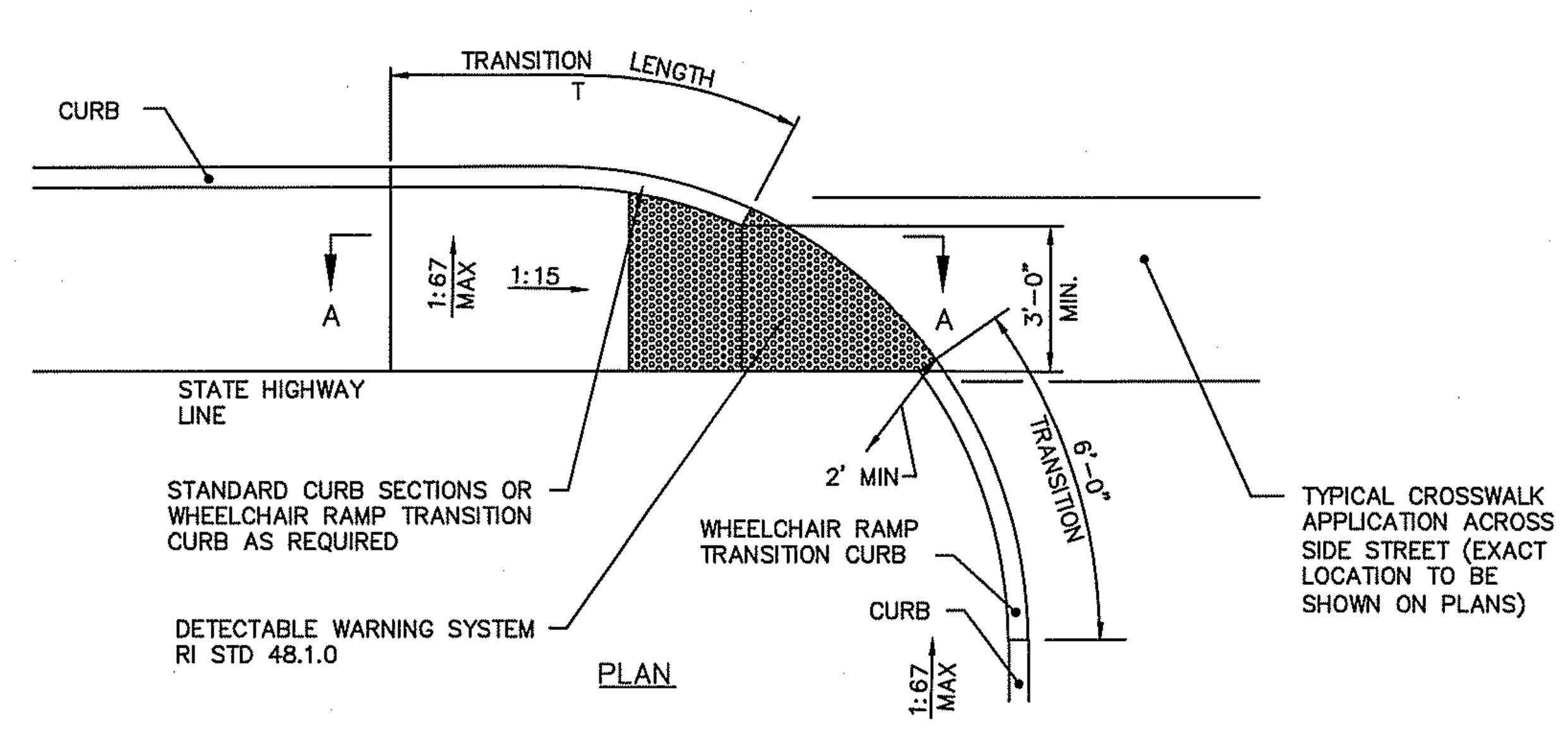


SECTION A-A

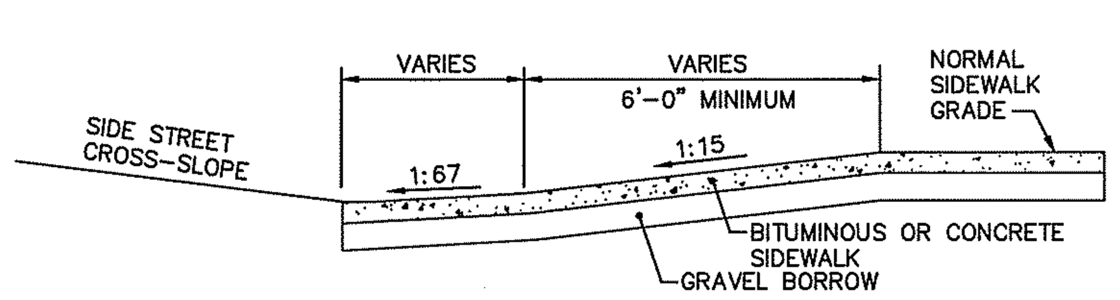
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 904 OF THE R.I. STANDARD SPECIFICATIONS.
2. WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, THE WHEELCHAIR RAMP WILL BE PLACED SUCH THAT THE OBSTRUCTION FALLS OUTSIDE OF THE RAMP.
3. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP 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 RAMPS.
5. LOCATION OF WHEELCHAIR RAMPS IS AS SHOWN ON CONTRACT DRAWINGS.
6. IN NO INSTANCE SHALL THE SIDEWALK CROSS SLOPE EXCEED 1:50 EXCEPT WITHIN THE RAMP AREA.
7. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 3'-0" SHALL BE MAINTAINED.
8. THE WHEELCHAIR RAMP SLOPE AND SIDE SLOPES (TRANSITIONS), MUST NOT EXCEED 1:12. HOWEVER, THESE SLOPES MAY BE FLATTER THAN 1:12 WHEN WARRANTED BY SURROUNDING CONDITIONS.
9. WHERE THE ROAD PROFILE EXCEEDS 5% THE HIGH SIDE TRANSITION LENGTH (T) SHALL BE EIGHTEEN FEET (18'-0").
10. IN NO CASE, WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED BEHIND THE STOP LINE.
11. THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
12. THE WHEELCHAIR RAMP SHALL BE CENTERED RADIALLY, OPPOSITE THE RADIUS POINT WHEN POSSIBLE.
13. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
14. ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.
15. MEETS OR EXCEEDS GUIDELINES OF RIDOT STANDARD DETAIL 43.3.0.
16. DETECTABLE WARNING SYSTEM SHOULD BE IN ACCORDANCE WITH SECTION 942 OF THE RI STANDARD SPECIFICATIONS.

WHEELCHAIR RAMP (ADA)
NOT TO SCALE

PROFILE GRADE	T
0.00	7.5
0.01	9.0
0.02	11.0
0.03	13.5
0.04	19.0
0.05	30.0



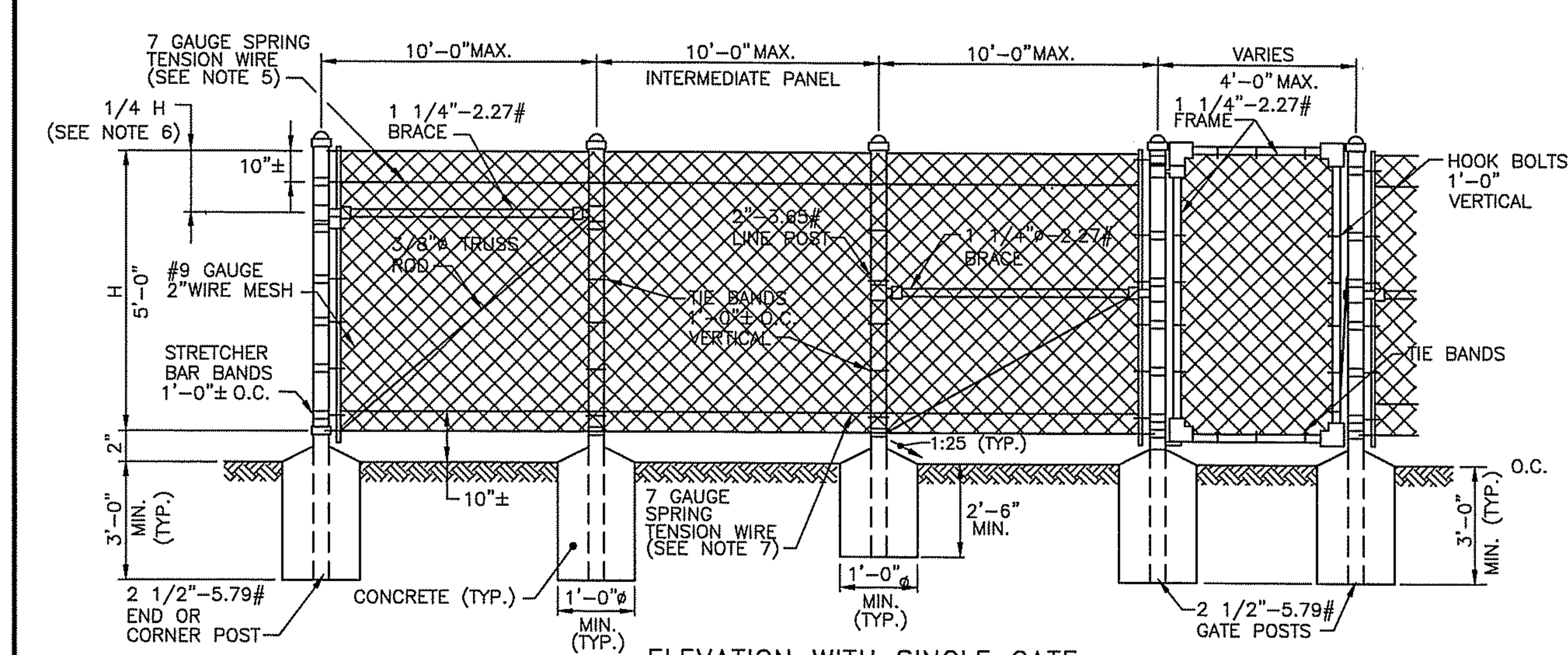
PLAN



SECTION A-A

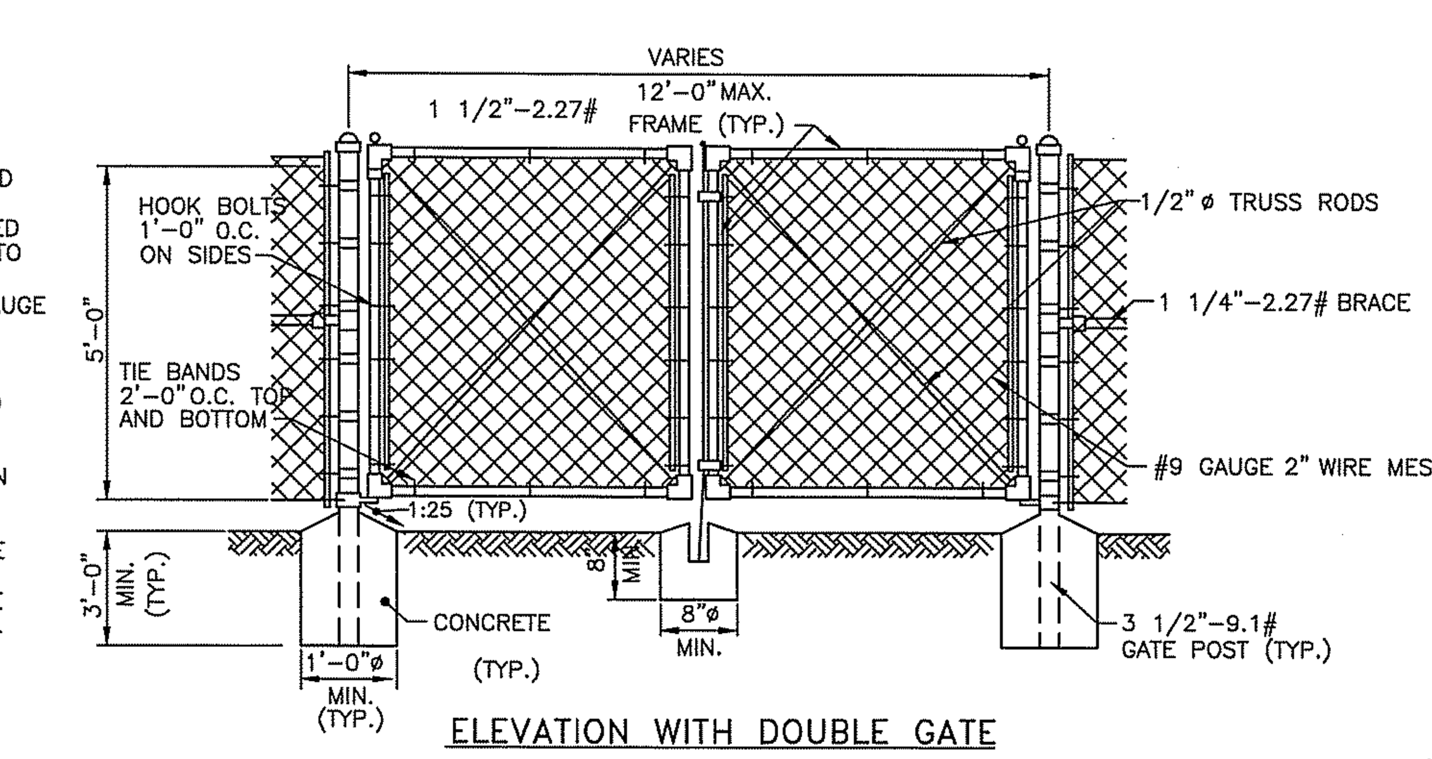
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 904 OF THE R.I. STANDARD SPECIFICATIONS.
2. THIS DETAIL IS TO BE USED ONLY WHEN STATE RIGHT-OF-WAY IS LIMITED TO BACK OF SIDEWALK, AND SIDEWALK IS NARROW WITH NO PEDESTRIAN TRAFFIC FROM SIDE STREET.
3. WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, IF POSSIBLE, THE OBSTRUCTION WILL BE PLACED SUCH THAT IT FALLS OUTSIDE OF THE RAMP.
4. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
5. DRAINAGE FACILITIES ARE TO BE LOCATED UP-GRADE OF ALL WHEELCHAIR RAMPS.
6. LOCATION OF WHEELCHAIR RAMPS IS AS SHOWN ON CONTRACT DRAWINGS.
7. ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.
8. WHERE THE ROAD PROFILE EXCEEDS 5% THE TRANSITION LENGTH (T) SHALL BE EIGHTEEN FEET (18'-0").
9. THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
10. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
11. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 3'-0" SHALL BE MAINTAINED.
12. MEETS OR EXCEEDS GUIDELINES OF RIDOT STANDARD DETAIL 43.3.1.
13. DETECTABLE WARNING SYSTEM SHOULD BE IN ACCORDANCE WITH SECTION 942 OF THE RI STANDARD SPECIFICATIONS.

WHEELCHAIR RAMP
FOR LIMITED RIGHT-OF-WAY AREAS (ADA)
NOT TO SCALE



ELEVATION WITH SINGLE GATE

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 902 OF THE R.I. STANDARD SPECIFICATIONS.
2. 6 GAUGE STREET CLIPS TO BE USED TO FASTEN SPRING TENSION WIRE TO LINE POST.
3. SPRING TENSION WIRE – NO. 7 GAUGE CORRUGATED HEAVILY GALVANIZED (2.0 OZ. PER SQ. FT.) ALUMINUM COATED (0.4 OZ. PER SQ. FT.)
4. ALL PIPES REFER TO SCHEDULE 40 NOMINAL PIPE SIZES.
5. A 1 1/4"-2.27# TOP RAIL MAY BE SUBSTITUTED FOR THE TOP TENSION WIRE WHEN THE FENCE IS NOT LOCATED IN THE CLEAR ZONE.
6. WHEN A TOP RAIL IS USED, LOCATE THE BRACE RAIL AT 1/2 H.
7. WHEN A TOP RAIL IS USED, DELETE THE BOTTOM SPRING TENSION WIRE.



ELEVATION WITH DOUBLE GATE

CHAIN LINK FENCE 5'-0" N.T.S.

MAY 1 2008

OWNERSHIP OF DOCUMENTS
This document and the ideas and designs incorporated herein, as an instrument of professional service, is the property of the Architect and is not to be used, in whole or in part, for any other project without the written permission of the Architect.

REVISIONS

NO.	DATE	DESCRIPTION
1	4/30/08	ADDRESSED DEM & DOT COMMENTS

DiPrete Engineering
Two Stafford Court
Cranston, Rhode Island 02920
Tel: (401) 943-1000 Fax: (401) 464-6006

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

THE LAWRENCE ASSOCIATES
ARCHITECTS / PLANNERS, P.C.
1075 TOLLAND TURNPIKE, MANCHESTER, CT 06040
FAX (860) 643-4373 (860) 643-2161

STATE PROJECT NO.

PROJECT NUMBER

PROJECT TITLE:
Middletown Police Station
Valley Road
Middletown, Rhode Island

DRAWING TITLE:
DETAIL SHEET 2

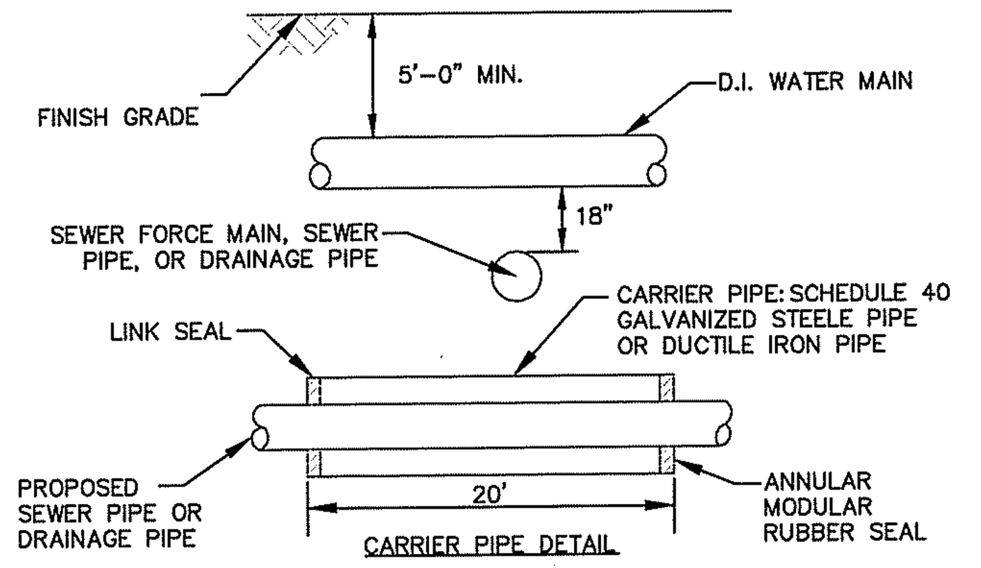
SCALE:
DATE: 2-15-08

DWN. BY: B.D.C.

DRAWING 8 10 OF 10 14

\\DEAstorage\DEAmain\Engineers3\Projects\1319-002 Middletown\dwg\1319-002 Plotting Set.dwg, 4/30/2008 3:57:30 PM, Brandon, DWF6 ePlot.pc3

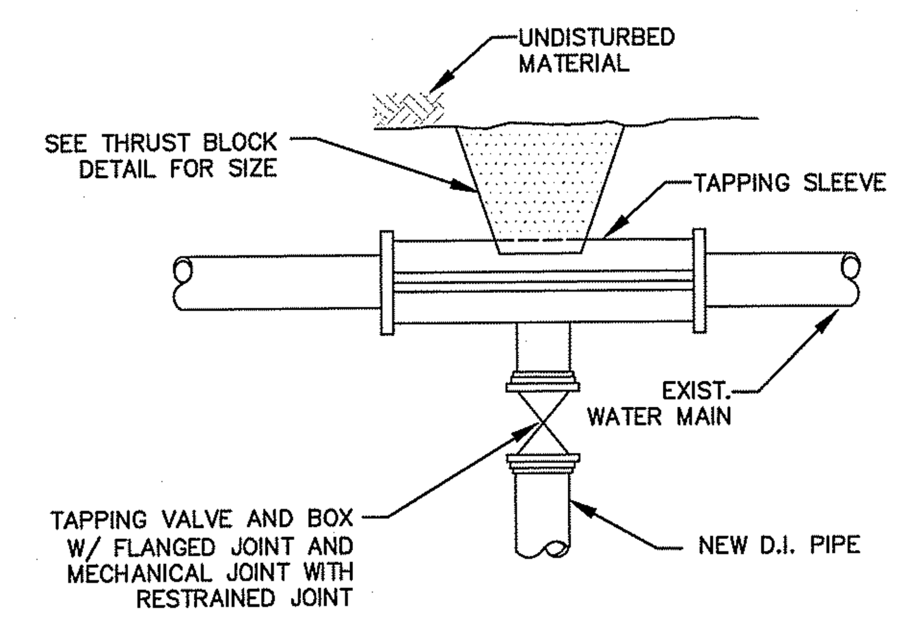
NOTES:
1. THE VERTICAL SEPERATION BETWEEN THE WATER MAIN AND THE PROPOSED UTILITY SHALL BE A MINIMUM OF 18 INCHES.
2. THE HORIZONTAL SEPERATION BETWEEN THE WATER MAIN AND THE PROPOSED UTILITY SHALL BE A MINIMUM OF 10 FEET.
3. IF 1 OR 2 CAN NOT BE MAINTAINED THE PROPOSED UTILITY SHALL BE INSTALLED WITHIN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



UTILITY SEPARATION

NOT TO SCALE

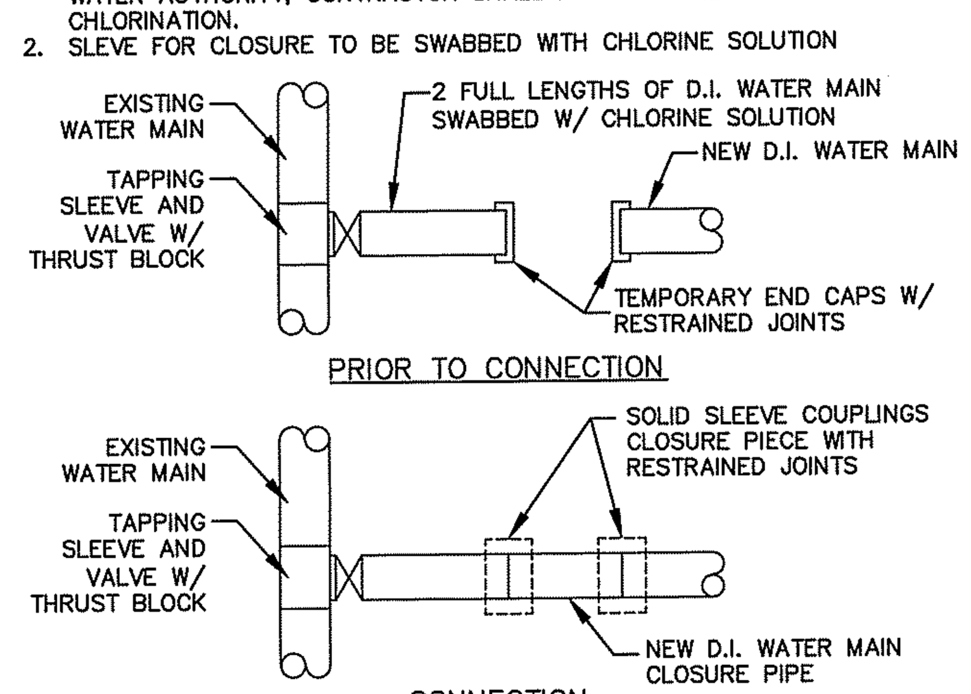
NOTES:
1. TAPPING SLEEVE AND VALVE TO BE SWABBED WITH CHLORINE SOLUTION.



TAPPING SLEEVE AND VALVE

NOT TO SCALE

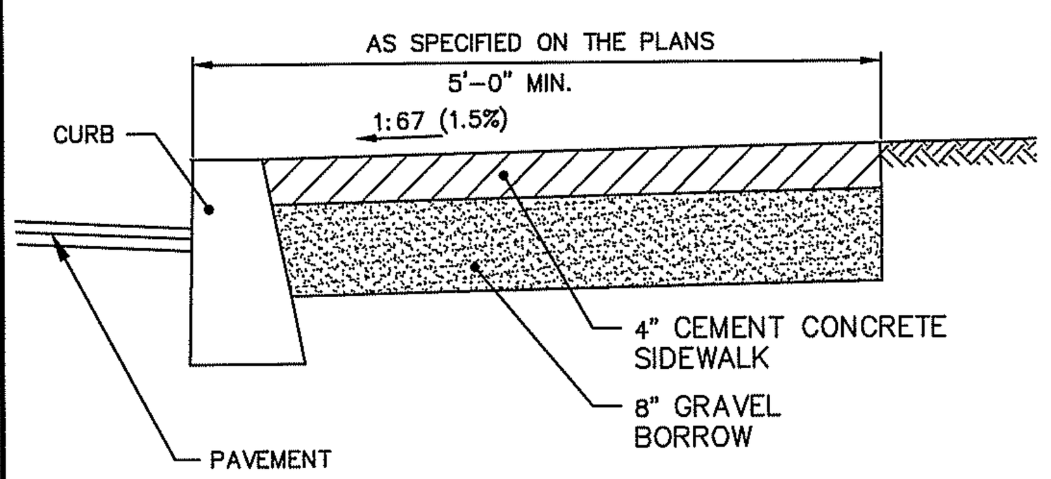
NOTES:
1. PRIOR TO FINAL APPROVAL FOR PERMANENT CONNECTION FROM NEWPORT WATER AUTHORITY, CONTRACTOR SHALL PERFORM PRESSURE TESTING AND CHLORINATION.
2. SLEVE FOR CLOSURE TO BE SWABBED WITH CHLORINE SOLUTION



CONNECTION OF NEW WATER MAIN TO EXISTING WATER MAIN

NOT TO SCALE

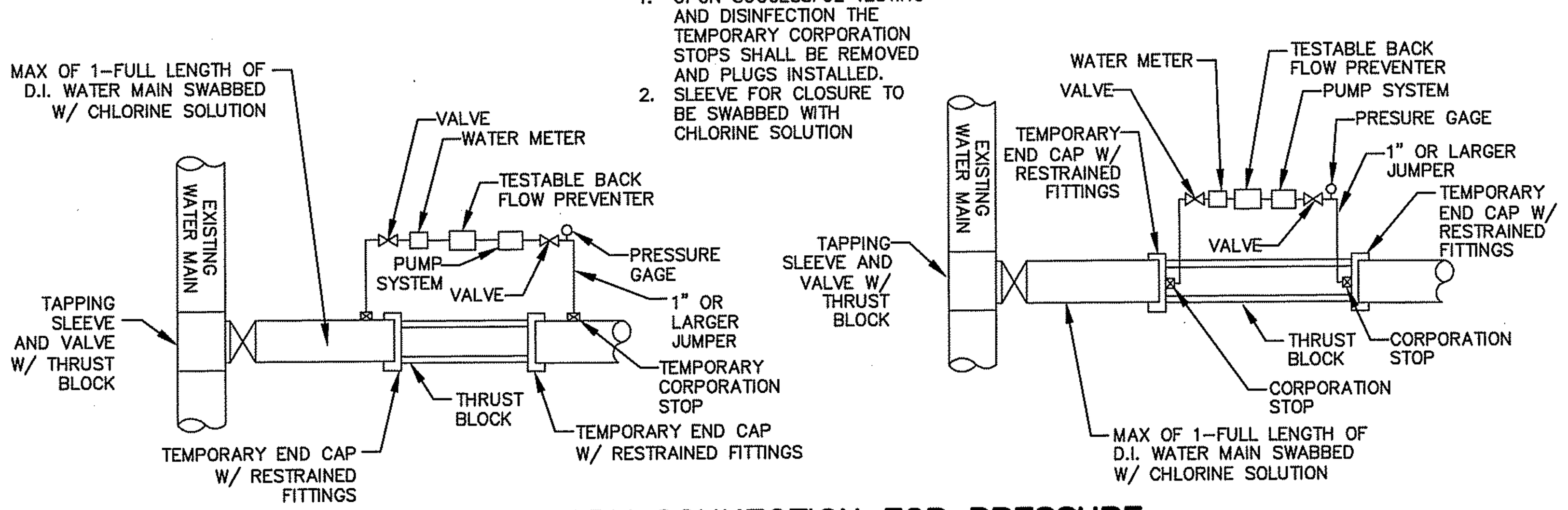
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 904 OF THE R.I. STANDARD SPECIFICATIONS.
2. FOR CURB SETTING DETAIL REFERENCE STD. 7.6.0.
3. MEETS OR EXCEEDS GUIDELINES OF RIDOT STD DETAIL 43.1.0.



CEMENT CONCRETE SIDEWALK (ADA)

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

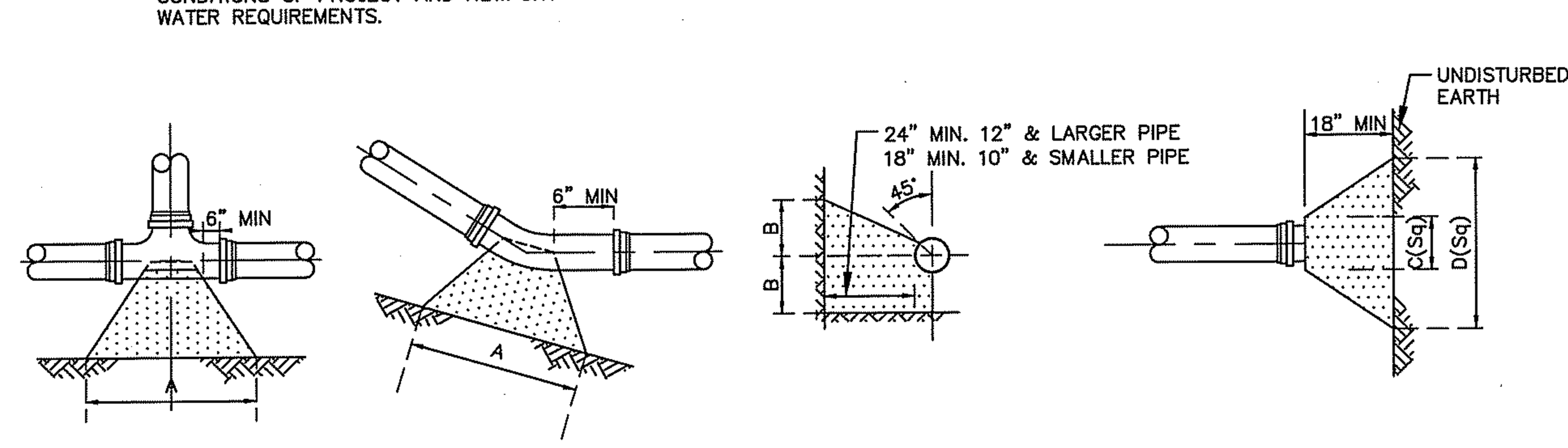


TEMPORARY CONNECTION FOR PRESSURE TESTING AND DISINFECTION

NOT TO SCALE

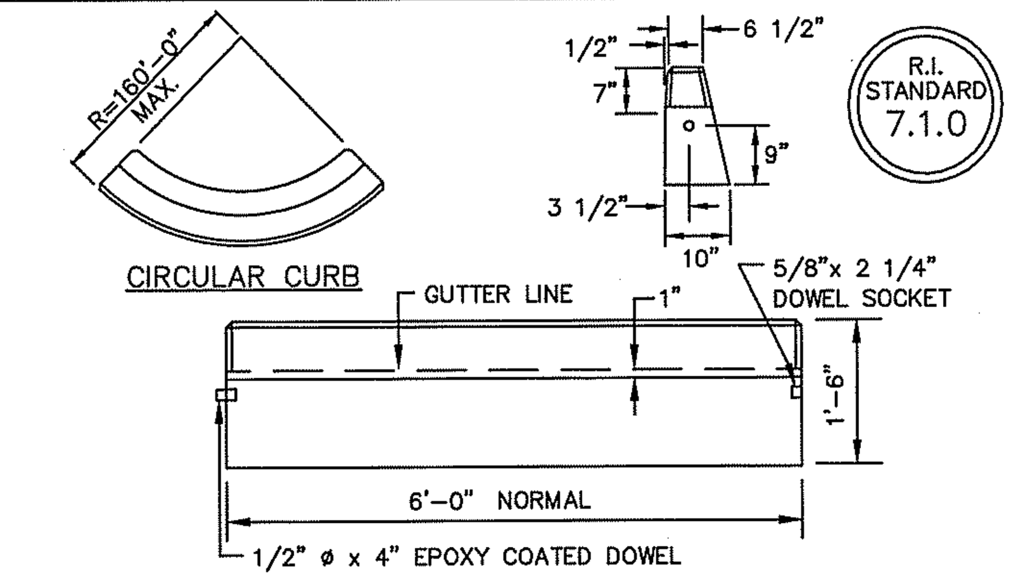
NOTES:
1. ALL CONCRETE SHALL BE 4000 P.S.I. @ 28 DAYS
2. CONCRETE THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH.
3. FORMS TO BE USED AS NECESSARY.
4. ALL BOLTS AND NUTS TO BE PROTECTED FROM CONCRETE AND EASILY ACCESSIBLE WHEN THRUST BLOCK INSTALLED.
5. REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF R.I. SHALL VERIFY ALL CALCULATIONS DURING DESIGN TO MEET CONDITIONS OF PROJECT AND NEWPORT WATER REQUIREMENTS.

SIZE	TEES		PLUGS		90° BEND		45° BEND		22.5° BEND		11.25° BEND	
	A	B	C	D	A	B	A	B	A	B	A	B
6"	20"	10"	10"	21"	24"	12"	18"	9"	13"	7"	9"	5"
8"	26"	13"	12"	26"	32"	16"	24"	12"	17"	9"	12"	6"
10"	34"	17"	14"	34"	40"	20"	30"	15"	22"	11"	15"	8"
12"	41"	20"	16"	41"	48"	24"	35"	18"	25"	13"	18"	9"
16"	54"	27"	20"	54"	64"	32"	47"	23"	34"	17"	24"	12"



THRUST BLOCK

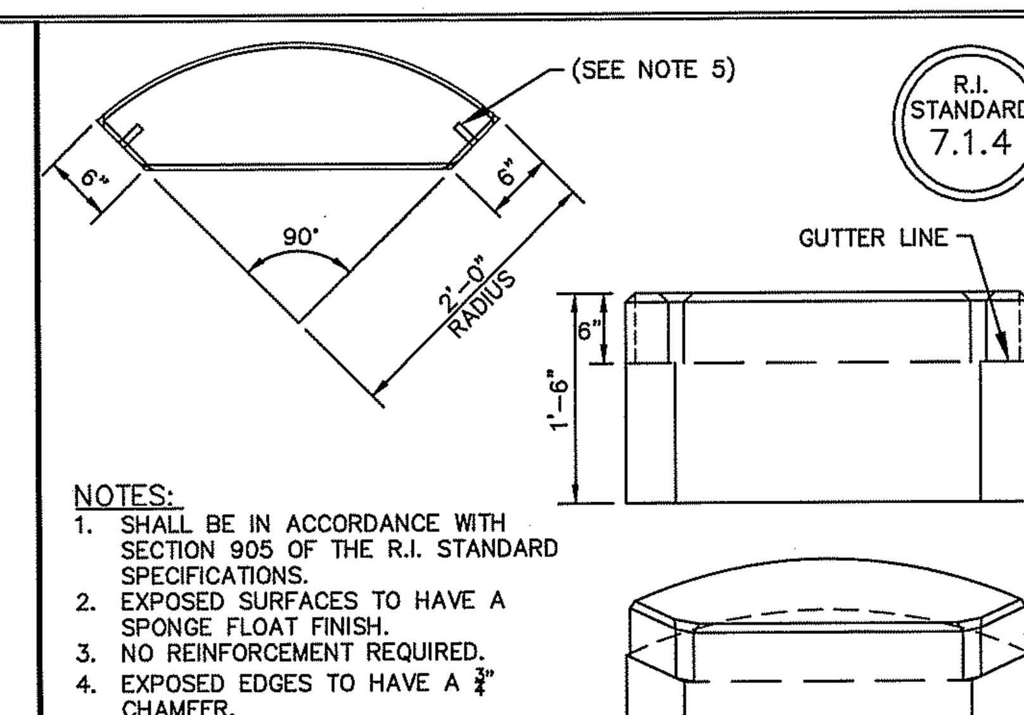
NOT TO SCALE



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 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" RADIUS.
5. EXPOSED EDGES TO HAVE A 3/4 CHAMFER.

PRECAST CONCRETE CURB

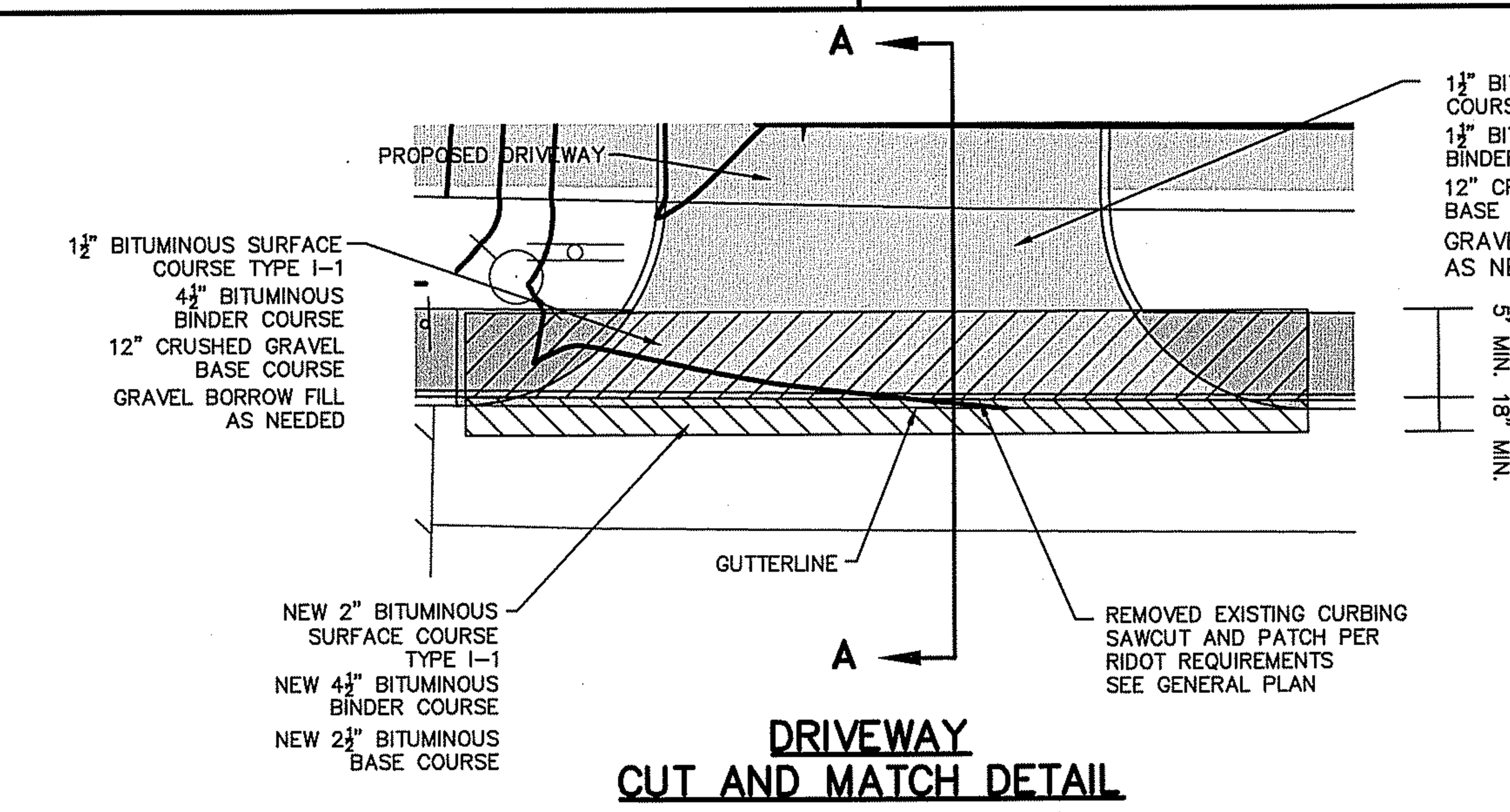
NOT TO SCALE



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 ¾" CHAMFER.
5. SEE STD. 7.1.0 FOR DOWEL SOCKET LOCATION.

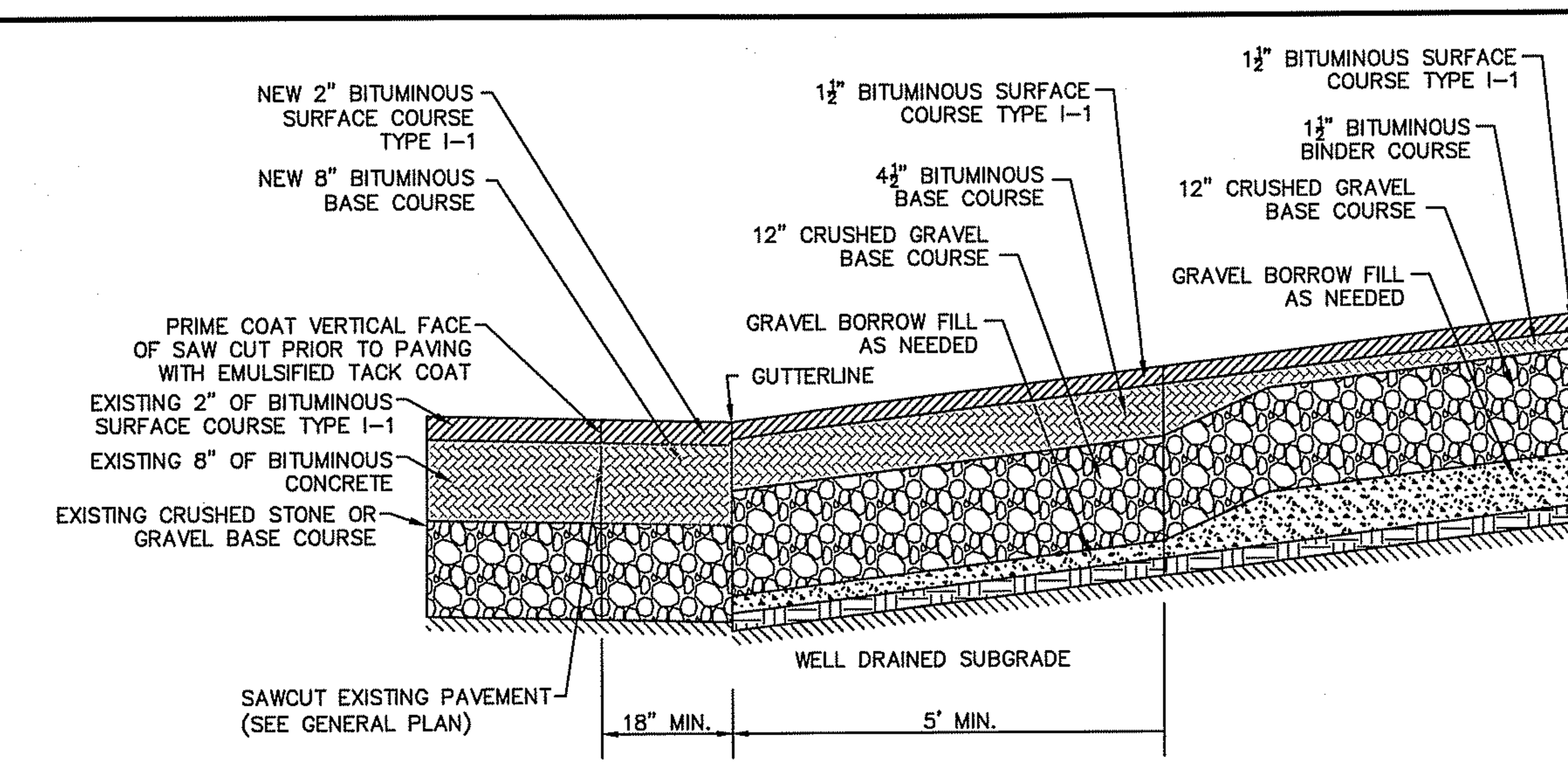
PRECAST CONCRETE 2'-0" RADIUS CORNER

NOT TO SCALE



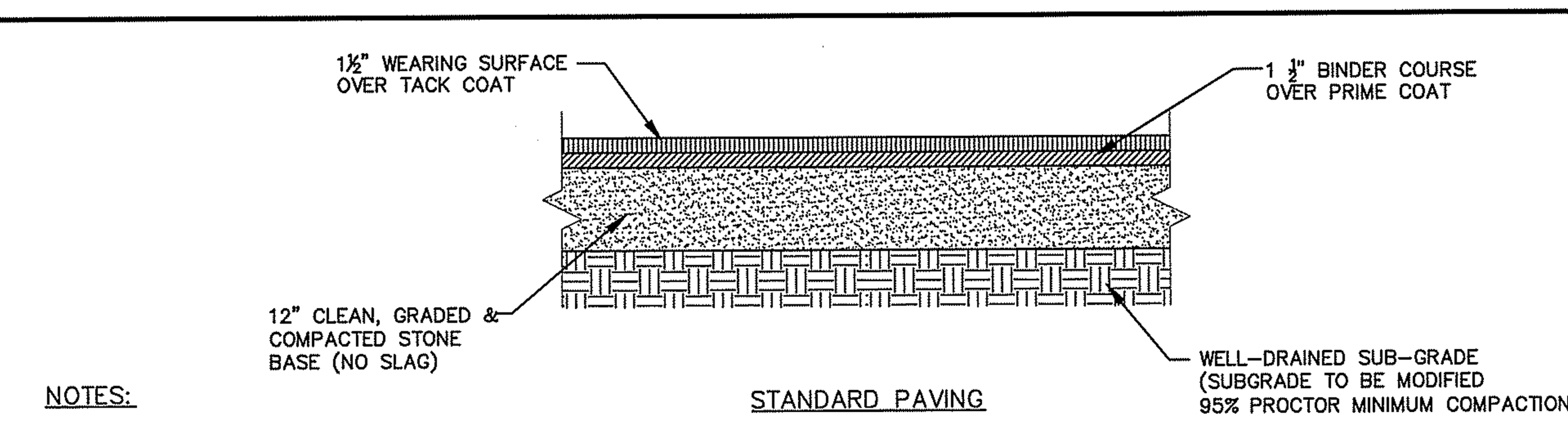
DRIVEWAY CUT AND MATCH DETAIL

NOT TO SCALE



CUT AND MATCH DETAIL SECTION A-A

NOT TO SCALE

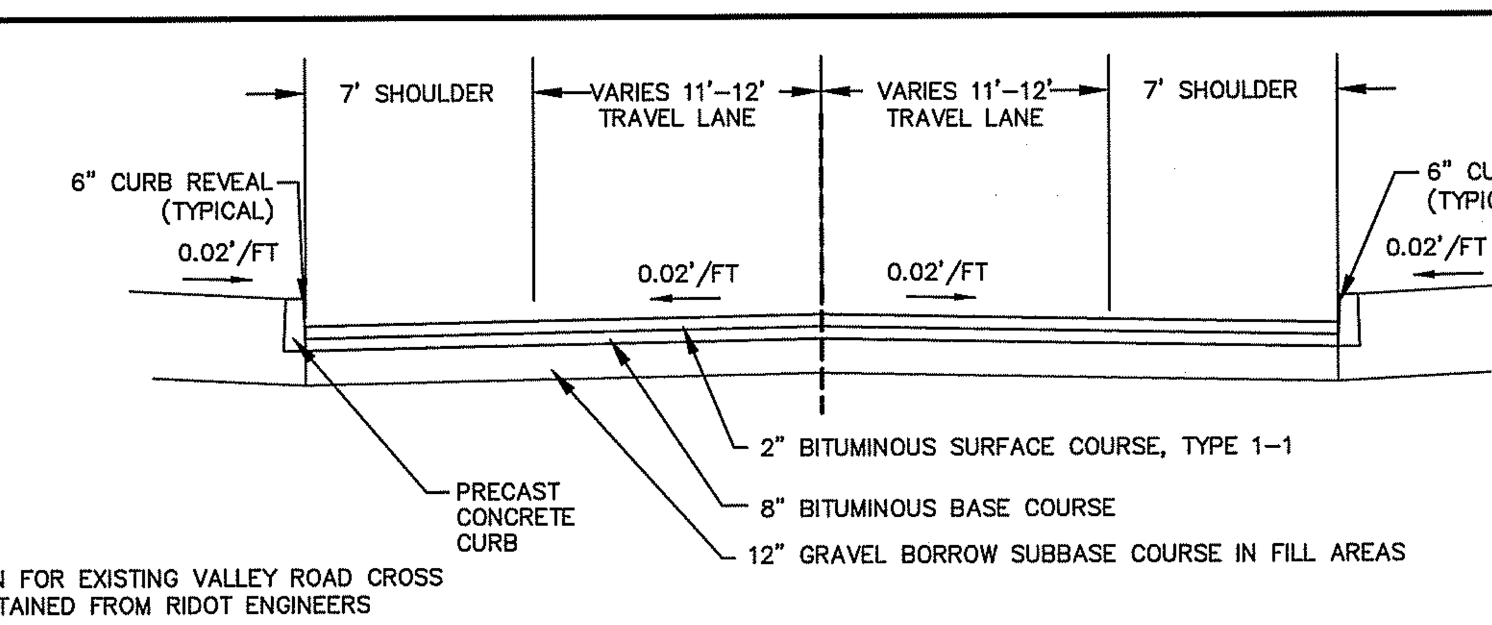


STANDARD PAVING

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



NOTE:
INFORMATION FOR EXISTING VALLEY ROAD CROSS SECTION OBTAINED FROM RIDOT ENGINEERS

VALLEY ROAD TYPICAL SECTION

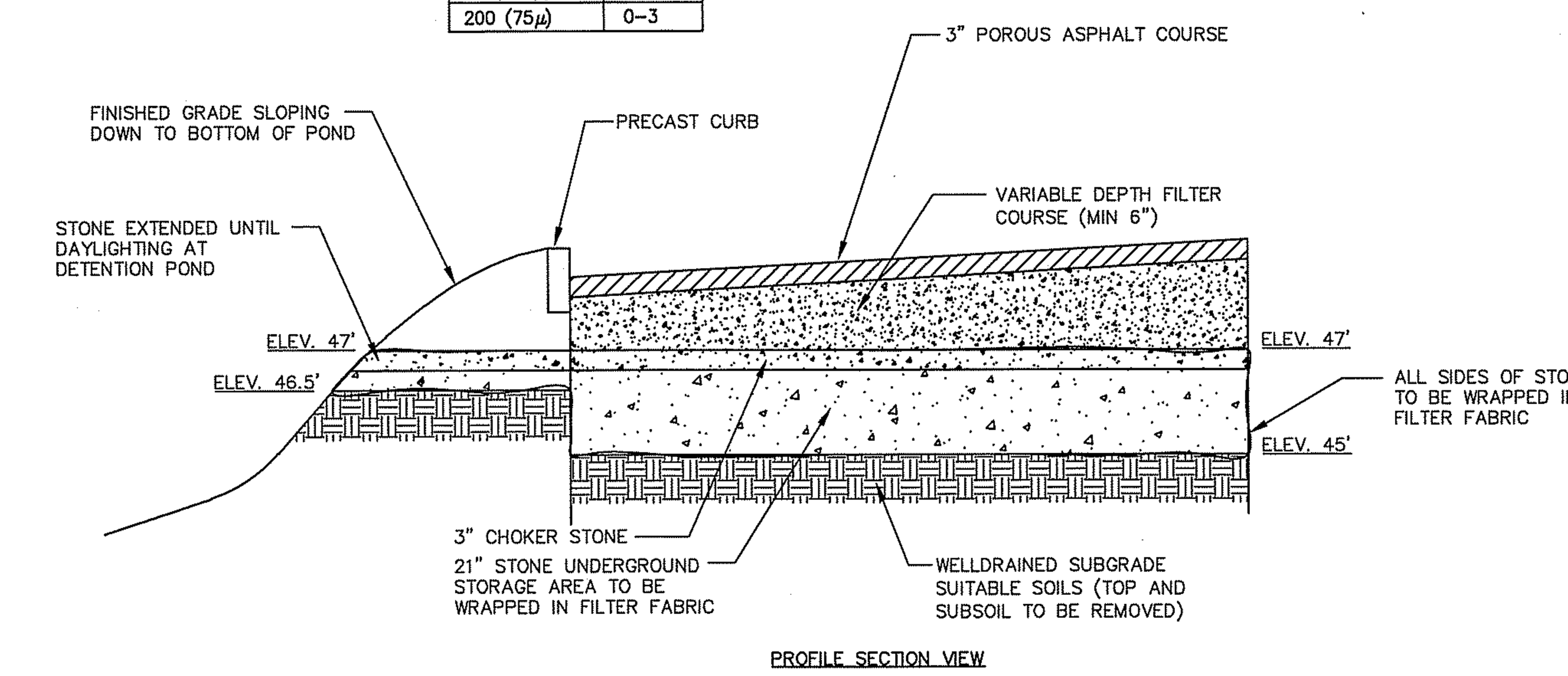
NOT TO SCALE

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

POROUS ASPHALT COURSE	
U.S. STANDARD SIEVE SIZE	PERCENT PASSING
1/2" (12.5MM)	100
3/8" (9.5MM)	92-98
4 (4.75MM)	32-38
8 (2.36MM)	12-18
16 (1.18MM)	7-13
30 (600µ)	0-5
200 (75µ)	0-3

FILTER COURSE	
U.S. STANDARD SIEVE SIZE	PERCENT PASSING
1-1/2" (37.5MM)	100
1" (25MM)	95-100
1/2" (12.5MM)	25-60
4 (4.75MM)	0-10
8 (2.36MM)	0-5

WASHED STONE BASE	
U.S. STANDARD SIEVE SIZE	PERCENT PASSING
2-1/2" (63MM)	100
2" (50MM)	90-100
1-1/2" (37.5MM)	35-70
1" (24.5MM)	0-15
1/2" (12.7MM)	0-5

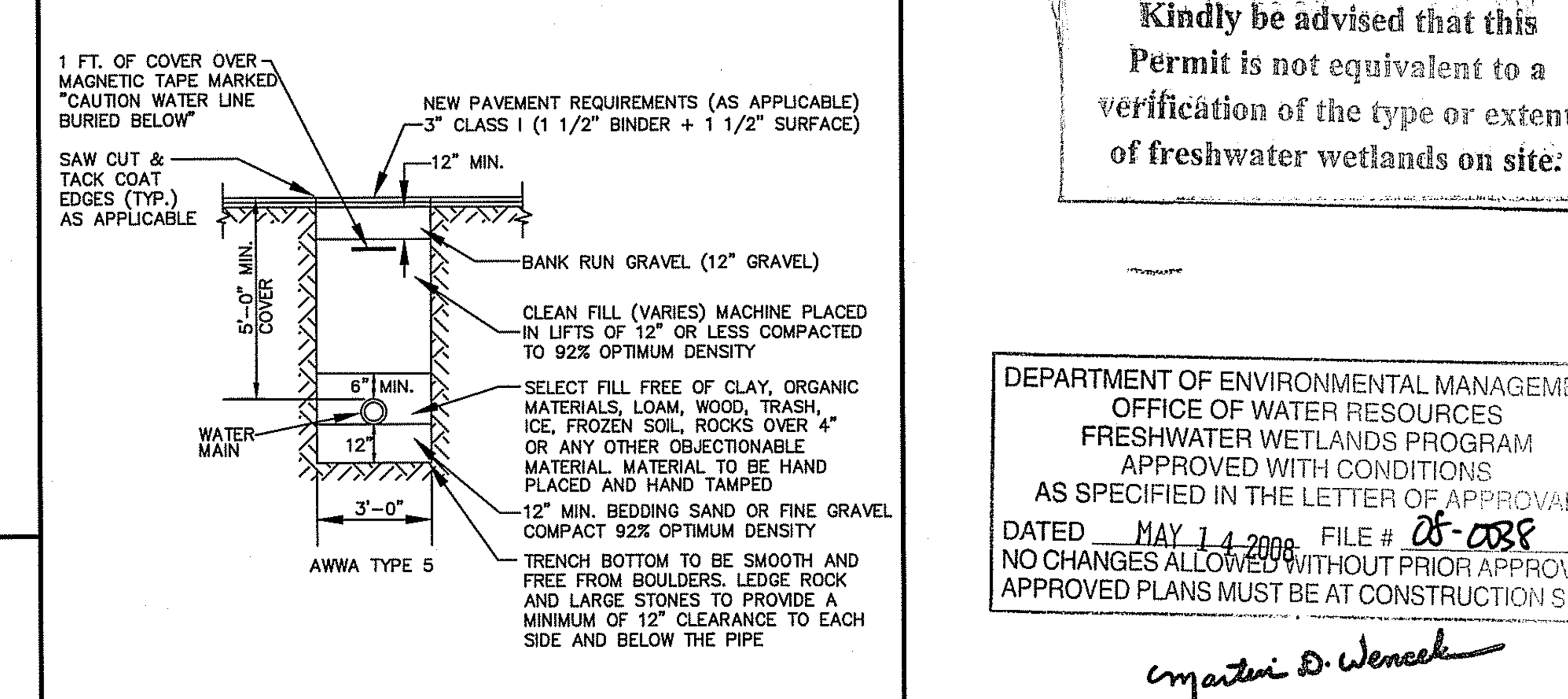


PROFILE SECTION VIEW

GENERAL NOTES:
1. ENSURE THAT PAVING AREA IS CLEAN OF DEBRIS, PAVING DEWATERS BETWEEN STORMS, AND THAT THE AREA IS CLEAN OF SEDIMENTS ON A MONTHLY BASIS.
2. MOW UPLAND AND ADJACENT AREAS, AND SEED BARE AREAS AS NEEDED.
3. VACUUM FREQUENTLY TO KEEP SURFACE FREE OF SEDIMENT TYPICALLY 3-4 TIMES A YEAR.
4. INSPECT THE SURFACE FOR DETERIORATION OR SPALLING ON AN ANNUAL BASIS.
5. CONTRACTOR TO REMOVE TOP OF UNSUITABLE MATERIAL INCLUDING SUBSOIL.
6. THE BOTTOM OF THE RESERVOIR BELOW THE PAVEMENT IS LEVEL AND STEPPED.
7. THE BOTTOM OF THE STONE TRENCH SLOPES PARALLEL TO THE GROUND SURFACE AND IS INDEPENDENT OF THE ELEVATION OF THE BOTTOM OF THE RESERVOIR.

POROUS ASPHALT PAVEMENT SECTION

NOT TO SCALE



WATER TRENCH DETAIL

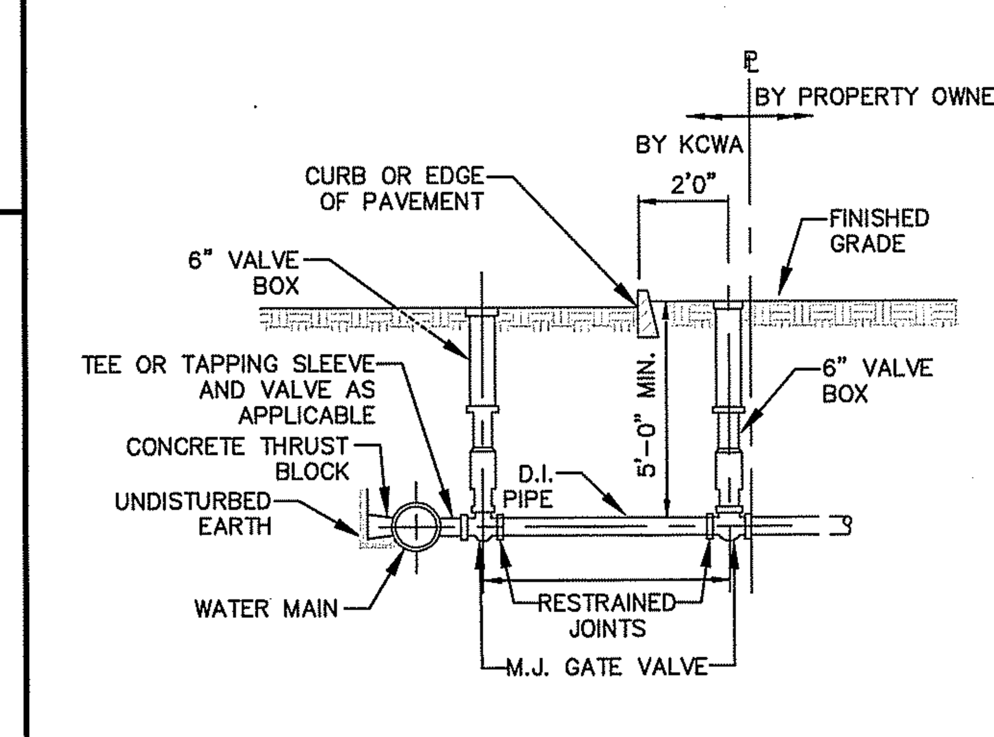
NOT TO SCALE

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 14 2008 FILE # 08-0038
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

[illegible]

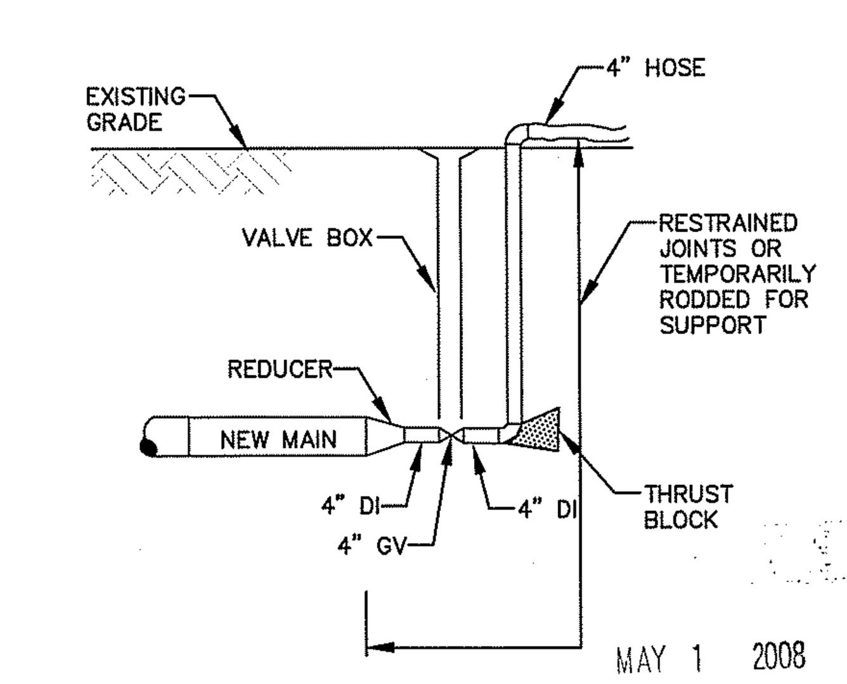
NOTES:
1. MATERIALS PER NEWPORT WATER AUTHORITY SPECIFICATIONS



SERVICE CONNECTION GREATER THAN 4 INCHES

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 NEWPORT WATER AUTHORITY..



MAY 1 2008

TEMPORARY FLUSHING CONNECTION

NOT TO SCALE

REVISIONS

NO.	DATE	DESCRIPTION
1	4/30/08	ADDRESSED DEM & DOT COMMENTS

DiPrete Engineering
Two Stafford Court
Cranston, Rhode Island 02920
Tel: (401) 943-1000 Fax: (401) 464-6006

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

THE LAWRENCE ASSOCIATES
ARCHITECTS / PLANNERS, P.C.
1075 TOLLAND TURNPIKE, MANCHESTER,CT 06040 (860) 643-2161
FAX (860) 643-4373

STATE PROJECT NO.

PROJECT NUMBER

PROJECT TITLE:
Middletown Police Station
Valley Road
Middletown, Rhode Island

DRAWING TITLE:
DETAIL SHEET 3

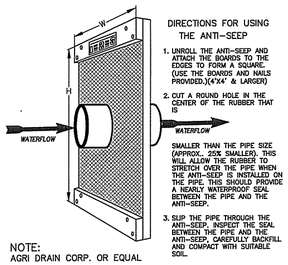
SCALE:

DATE: 2-15-08

DWN. BY: B.D.C.

DRAWING 11 9 OF 14 10

LOCATION	WIDTH	HEIGHT	QUANTITY
POND A	6.0'	6.0'	2



DIRECTIONS FOR USING THE ANTI-SEEP

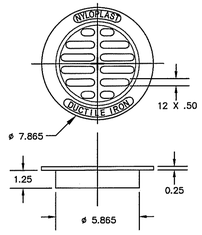
1. UNROLL THE ANTI-SEEP AND ATTACH THE BOARDS TO THE EDGES TO FORM A SQUARE. (USE THE BOARDS AND NAILS PROVIDED.)(4'X4' & LARGER)
2. CUT A ROUND HOLE IN THE CENTER OF THE RUBBER THAT IS SMALLER THAN THE PIPE SIZE (APPROX. 25% SMALLER). THIS WILL ALLOW THE RUBBER TO STRETCH OVER THE PIPE WHEN THE ANTI-SEEP IS INSTALLED ON THE PIPE. THIS SHOULD PROVIDE A NEARLY WATERPROOF SEAL BETWEEN THE PIPE AND THE ANTI-SEEP.
3. SLIP THE PIPE THROUGH THE ANTI-SEEP. INSPECT THE SEAL BETWEEN THE PIPE AND THE ANTI-SEEP, CAREFULLY BACKFILL AND COMPACT WITH SUITABLE SOIL.

NOTE:
AGRI DRAIN CORP. OR EQUAL

ANTI-SEEP COLLAR

NOT TO SCALE

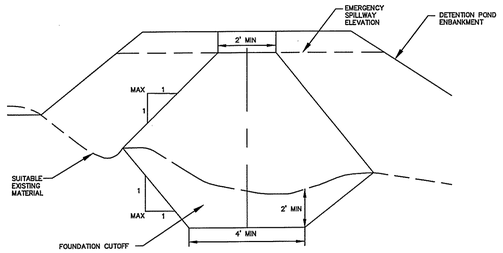
NOTES:
1. GRATES ARE TO BE NYLOPLAST OR APPROVED EQUAL.
2. DUCTILE IRON MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05.
3. APPROX DRAIN AREA = 13.30 SQ. IN.



8" DROP IN GRATE/COVER

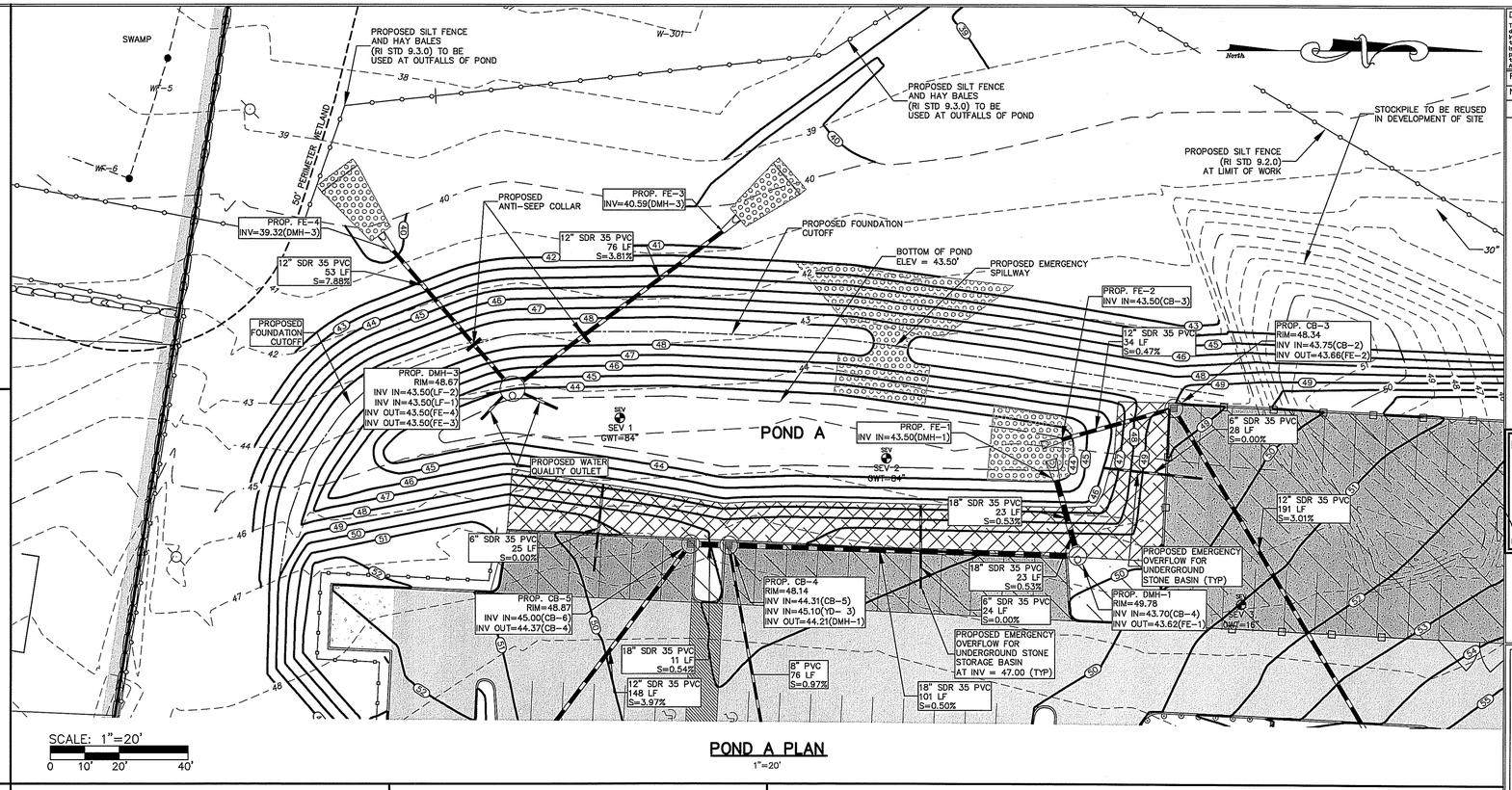
NOT TO SCALE

NOTES:
1. FOUNDATION CUTOFF TO BE PROVIDED FOR ALL DETENTION POND ENBANKMENTS.
2. FOUNDATION CUTOFF IS TO BE CONSTRUCTED OF RELATIVELY IMPERMEABLE MATERIALS.
3. MINIMUN DEPTH OF CUTOFF SHOULD BE 2'.
4. THE CUTOFF TRENCH, AS A MINIMUM SHALL EXTEND UP BOTH ABUTMENTS TO THE EMERGENCY SPILLWAY ELEVATION.
5. THE MINIMUM BOTTOM WIDTH SHALL BE 4', BUT WIDE ENOUGH TO PERMIT OPERATION OF COMPACTION EQUIPMENT.
6. SIDE SLOPES OF THE TRENCH SHALL BE NO STEEPER THAN 1:1.
7. COMPACTION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR EMBANKMENT.
8. THE TRENCH SHALL BE KEPT FREE FROM STANDING WATER DURING THE BACKFILL OPERATION.



FOUNDATION CUTOFF FOR EMBANKMENT OF DETENTION POND

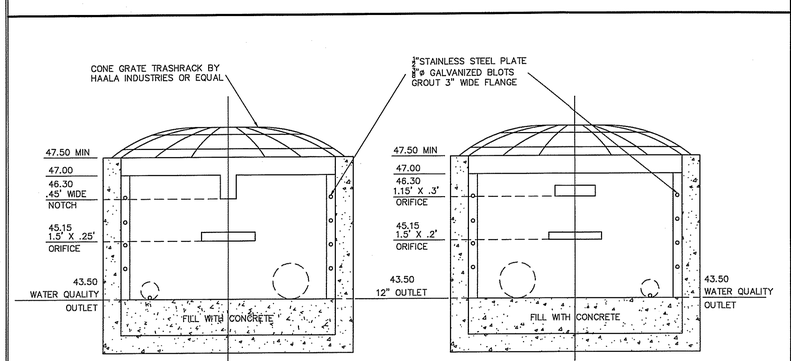
NOT TO SCALE



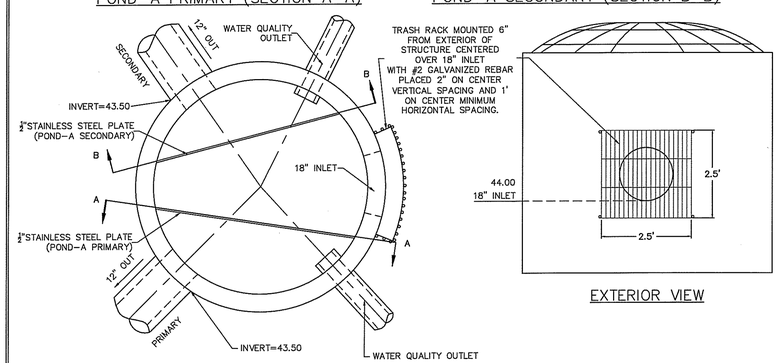
SCALE: 1"=20'
0 10' 20' 40'

POND A PLAN

1"=20'



POND-A PRIMARY (SECTION A-A) POND-A SECONDARY (SECTION B-B)

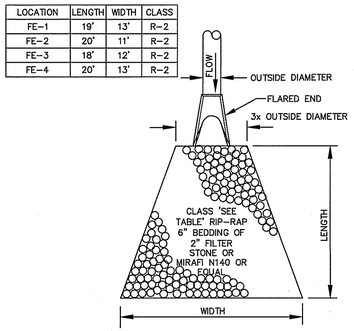


EXTERIOR VIEW

POND A OUTLET STRUCTURE DETAIL (DMH-3)

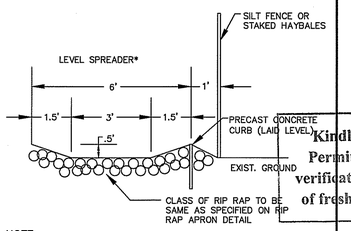
1"=2'

LOCATION	LENGTH	WIDTH	CLASS
FE-1	19'	13'	R-2
FE-2	20'	11'	R-2
FE-3	18'	12'	R-2
FE-4	20'	13'	R-2



RIP-RAP APRON DETAIL

NOT TO SCALE



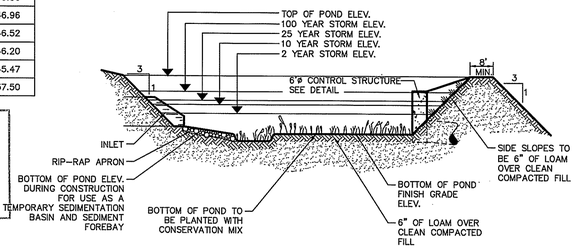
NOTE:
*WIDTHS AS SPECIFIED ON SITE PLANS

LEVEL SPREADER FOR FE-3 AND FE-4

NOT TO SCALE

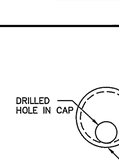
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DESCRIPTION	POND A
TOP OF POND ELEVATION	48.00
BOTTOM OF POND	43.50
100 YEAR STORM ELEVATION	46.96
25 YEAR STORM ELEVATION	46.52
10 YEAR STORM ELEVATION	46.20
2 YEAR STORM ELEVATION	45.47
SEASONAL HIGH GWT ELEVATION	37.50



DETENTION POND A - TYPICAL CROSS SECTION

NOT TO SCALE

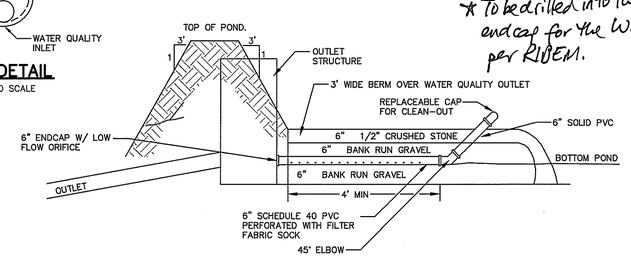


CAP DETAIL

NOT TO SCALE

LOCATION	INVERT	DIAMETER
POND A	43.50	0.875"

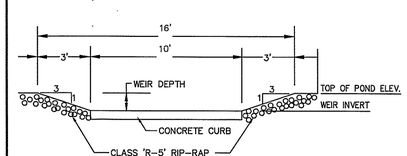
* To be drilled into the 6-inch diameter endcap for the Water Quality Outlet per RIDEM.



WATER QUALITY OUTLET

NOT TO SCALE

LOCATION	TOP OF POND ELEV.	WEIR INVERT	WEIR DEPTH
POND A	48.00	47.00	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 MAY 14 2008 FILE # 08-0088
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Cynthia D. Wencek

MAY 1 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

REVISIONS

NO.	DATE	DESCRIPTION
1	4/30/08	ADDRESSED DEM & RIDOT COMMENTS

DiPrete Engineering
Two Stafford Court
Cranston, Rhode Island 02920
Tel: (401) 943-1000 Fax: (401) 464-6006

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

THE LAWRENCE ASSOCIATES
1275 TILLAND TURNPIKE, MANCHESTER, CT 06040
FAX: (860) 643-4373 (860) 643-2561

PROJECT NUMBER | STATE PROJECT NO.

PROJECT TITLE:
Middletown Police Station
Valley Road
Middletown, Rhode Island

DRAWING TITLE:
DETAIL SHEET 4

SCALE: | DATE: 2-15-08

DWN. BY: B.D.C.

DRAWING 12 OF 16