

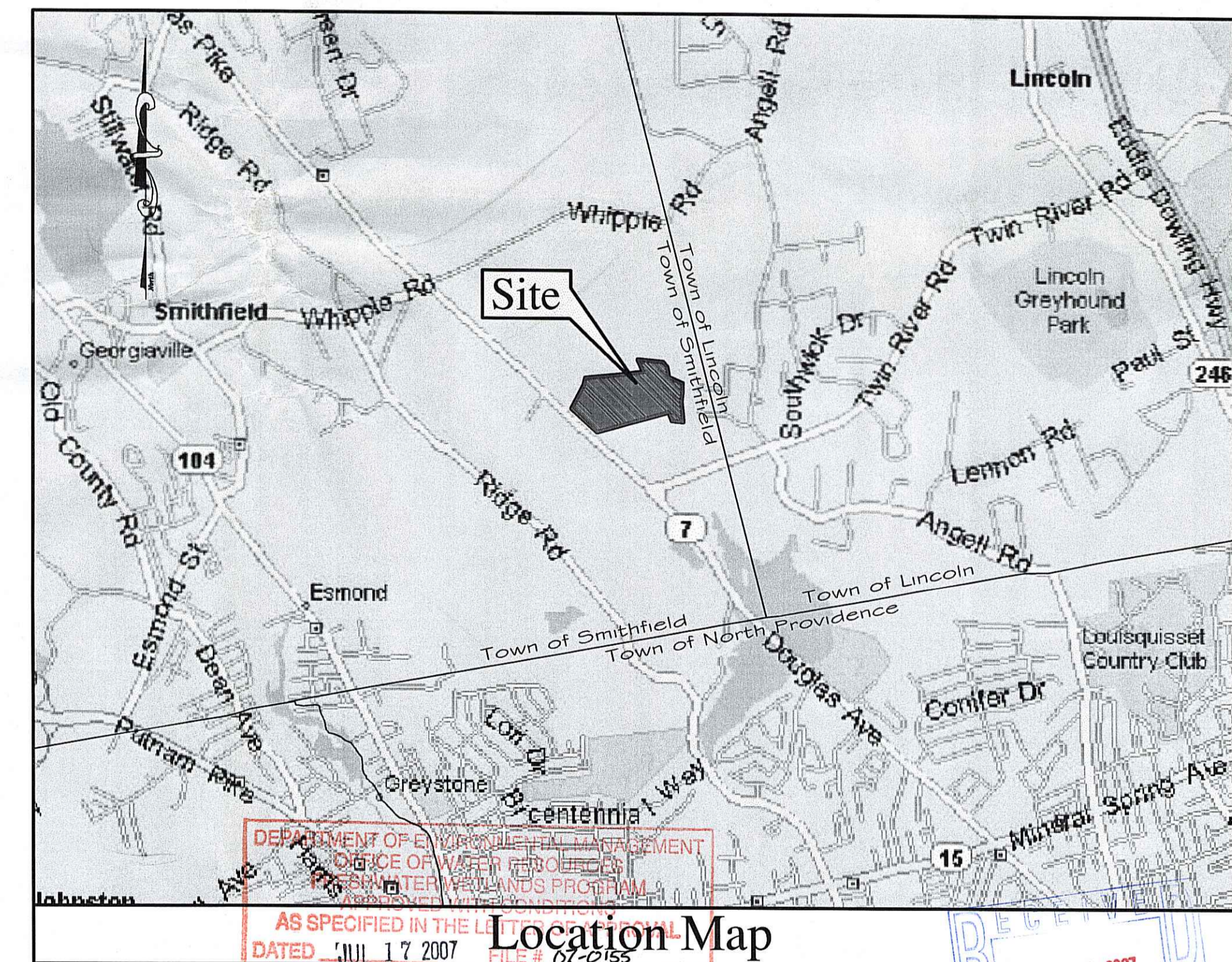
Preliminary Submission

Red Oak Trail

Located on Douglas Pike (Route 7)
 Smithfield, Rhode Island
 Assessor's Plat 42 Lot 27, 28 & 36 (Portion)

Sheet Index

1. Cover Sheet
2. Aerial 1/2 Mile Radius
3. Existing Conditions Plan
4. Overall Plan
5. Grading Plan
6. Plan and Profile
7. Plan and Profile
8. Detail Sheet
9. Detail Sheet
10. Detail Sheet

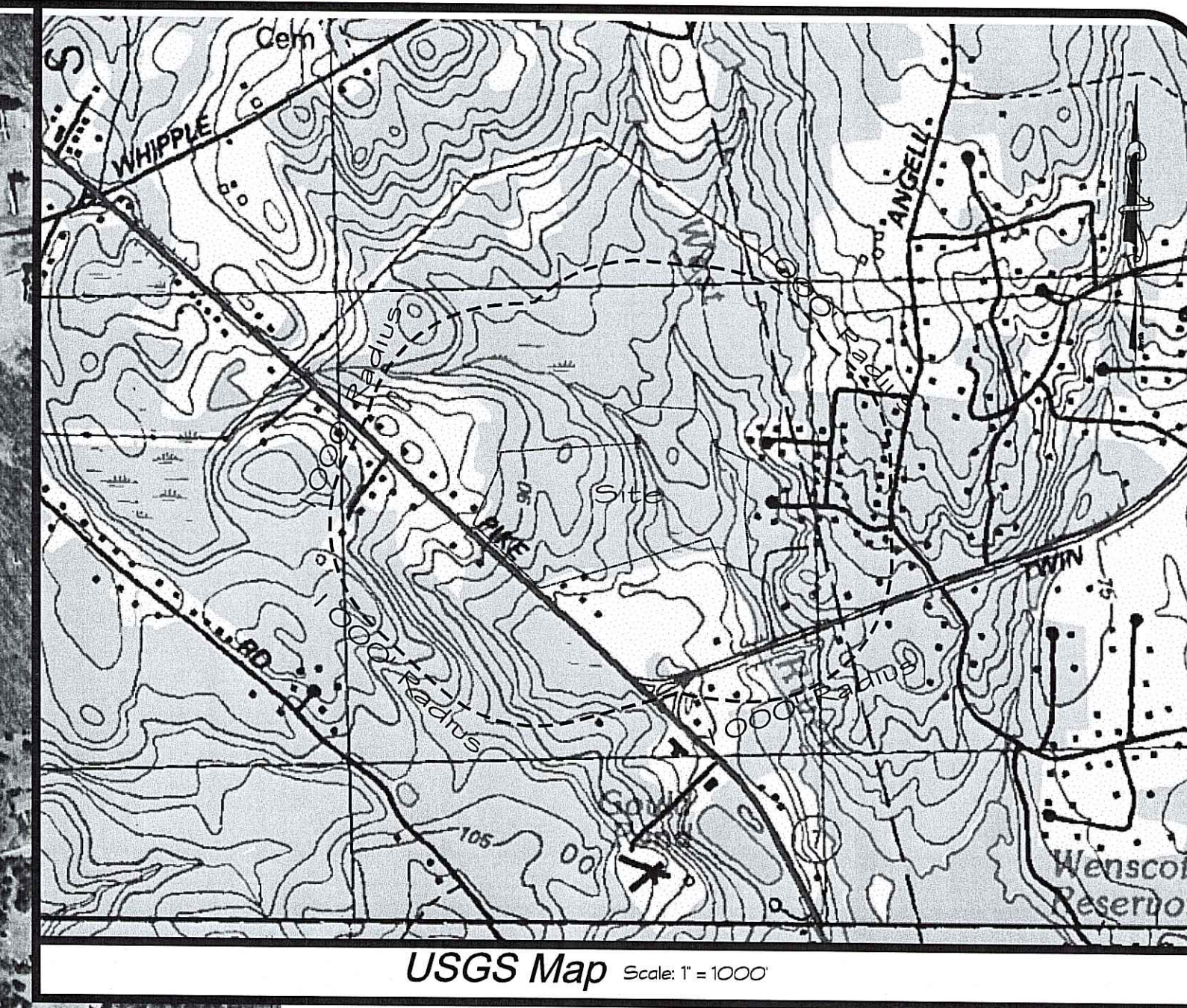


Charles A. Humber Preliminary Submission

CHRISTOPHER A. DUHAMEL No. 1844 PROFESSIONAL LAND SURVEYOR	ERIC M. PRIVE No. 8662 REGISTERED PROFESSIONAL ENGINEER CIVIL	COVER SHEET Red Oak Trail AP 42 LOTS 27, 28 AND 36 (PORTION) SMITHFIELD, 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 J.C.A. Enterprises, Inc. P.O. BOX 756 CHEPACHET, RI 02814 (401) 568-5801 APRIL, 2007 DWN. BY: C.R.D.																				
<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5-30-07</td> <td>RDOT/RIDEM COMMENTS</td> <td>ELT</td> </tr> <tr> <td>2</td> <td>6-30-07</td> <td>SITE SUITABILITY</td> <td>CRD</td> </tr> <tr> <td>3</td> <td>7-14-07</td> <td>ROOT SUBMISSION</td> <td>CRD</td> </tr> <tr> <td>4</td> <td>8-2-07</td> <td>WETLANDS SUBMISSION</td> <td>CRD</td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION	BY	1	5-30-07	RDOT/RIDEM COMMENTS	ELT	2	6-30-07	SITE SUITABILITY	CRD	3	7-14-07	ROOT SUBMISSION	CRD	4	8-2-07	WETLANDS SUBMISSION	CRD	SHEET 1 OF 10
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4	8-2-07	WETLANDS SUBMISSION	CRD																			

M:\Engineers\1\Transfers\1053-002 Douglas Pike Dwg\1053-002 Preliminary EMP R3.dwg, 5/30/2007 12:06:26 PM, Eric, DWG ePlot.pc3

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Legend

- EXISTING TREELINE
- ABUTTING PROPERTY LINE
- SOIL DIVISION LINE
- EXISTING EDGE OF PAVEMENT
- PROPERTY LINE
- EXISTING BUILDING
- 50' FOOT PERIMETER WETLAND LINE
- 100' FOOT RIVERBANK WETLAND LINE
- TWO FOOT CONTOUR
- TEN FOOT CONTOUR
- APPROXIMATE EDGE OF WETLAND LINE
- APPROXIMATE EDGE OF WEST RIVER
- UTILITY POLES
- EXISTING STONE WALL
- EXISTING FENCE
- (POINTED) STONE BOUND FOUND
- PROPOSED HOME
- PROPOSED ISDS LOCATION
- TEST PIT

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER DATED JUL 17 2007
 NO CHANGES ALLOWED WITHOUT APPROVED PLANS MUST BE AT COMPLETION SITE

APL # 662695'S PLAT
 NOW OR FORMERLY
 Charles H. Foster
 W-8
 66442 PROPOSED HOME
 66-281.00 T.F. = 281.50
 W.O. = 274.00
 PROP. ISDS
 INV. = 275.50
 BOT. = 273.04

AERIAL PHOTO OBTAINED FROM THE RI-GIS OF 2004 DIGITAL ORTHOPHOTOGRAPHY NORTHERN URBAN AREAS OF RI.

Preliminary Submission

ERIC M. PRIVE
 No. 8662
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

AERIAL 1/2 MILE RADIUS & SITE CONTEXT MAP

Red Oak Trail
 AP 42 LOTS 27, 28 AND 36 (PORTION)
 SMITHFIELD, 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
J.C.A. Enterprises, Inc.
 P.O. BOX 756
 CHEPACHET, RI 02814
 (401) 568-5801

SCALE: 1" = 300'
 0 150' 300' 600'

NO.	DATE	DESCRIPTION	BY
3	5-30-07	ROOT/REDEM COMMENTS	ELI
2	10-3-07	SITE SUITABILITY	C.R.D.
1	4-9-07	ROOT SUBMISSION	C.R.D.
0	12-3-07	WETLANDS SUBMISSION	C.R.D.

General Notes

1. SITE IS LOCATED ON ASSESSOR'S PLAT 42 LOTS 27, 28 AND 36 (PORTION). THE SITE IS APPROXIMATELY 35 ACRES.
2. THE OWNER OF ASSESSOR'S PLAT 42 LOTS 27 AND 28 IS TATE FAMILY LIMITED PARTNERSHIP, 64 EAGLE STREET, PROVIDENCE, RI 02909. THE OWNER OF ASSESSOR'S PLAT 42 PORTION OF LOT 36 IS DAVID R. & BARBARA M. DEXTER, ET UX, P.O. BOX 756, CHEPACHET, RI 02814.
3. THE CURRENT ZONING OF THE SITE IS R-80.
4. THE APPLICANT IS J.C.A. ENTERPRISES, INC., P.O. BOX 756, CHEPACHET, RI 02814.
5. WETLAND EDGE HAS BEEN VERIFIED BY RIDEM FRESHWATER WETLANDS UNDER APPLICATION NUMBER 06-0507.
6. DWELLINGS SURROUNDING SITE ARE SERVICED BY PUBLIC WATER AND ISDS.
7. NO GAS LINE ALONG SUBJECT PROPERTY ON DOUGLAS PIKE.
8. ASSESSORS PLAT 42 LOTS 27, 28 AND 36 (PORTION) OF THIS PLAN IS SUBSTANTIALLY CORRECT IN ACCORDANCE WITH 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 AN ACCURATE BOUNDARY SURVEY AND MAY BE SUBJECT TO SUCH CHANGES AS AN ACCURATE BOUNDARY SURVEY MAY DISCLOSE.

Natural Resources Inventory

1. TOPOGRAPHY OBTAINED FROM TECHMAP, INC., 19 INDUSTRIAL DRIVE, SMITHFIELD, RI 02917. DATUM: NAVD'88
2. THERE IS NO 100 YEAR FLOOD ZONE ON SITE. REFERENCE FEMA FLOOD INSURANCE RATE MAP NO. 440025-0009 B, MARCH 4, 1991.
3. THE VEGETATIVE COVER CONDITIONS ON THE PROPERTY IS A DENSELY WOODED UPLAND AND WOODED WETLANDS. TREES WILL BE LOCATED AND IDENTIFIED AT A LATER STAGE OF DESIGN FOR AREAS PROPOSED FOR DISTURBANCE OR ALTERATION.
4. NO WELLHEAD PROTECTION AREAS FOR PUBLIC OR COMMUNITY DRINKING WATER WELLS ARE LOCATED ON OR NEAR THE SITE.
5. NO MAN MADE FEATURES EXIST ON THE SITE INCLUDING STREETS, DRIVEWAYS, BUILDINGS, FOUNDATIONS, ETC.

Soil Information

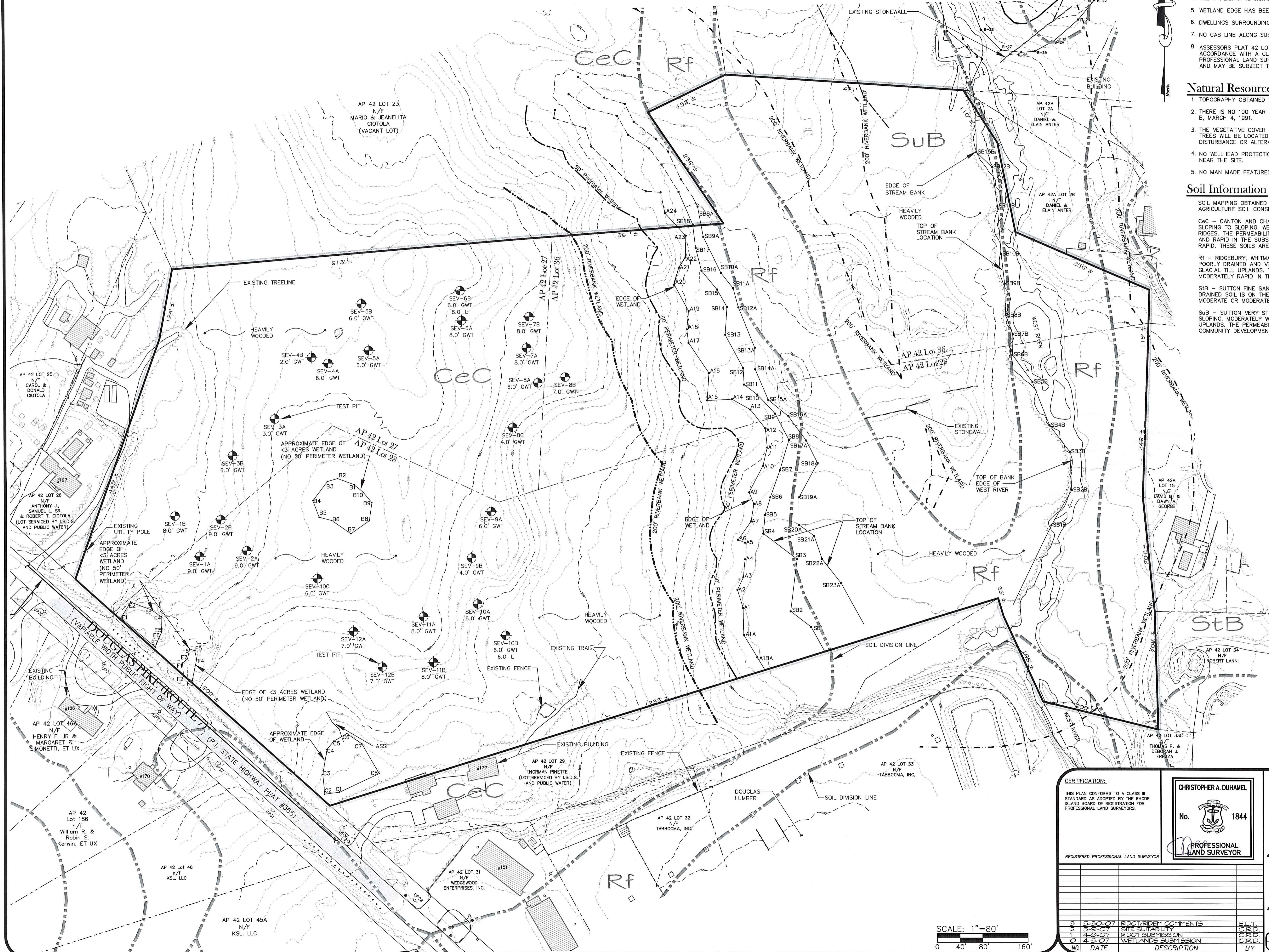
SOIL MAPPING OBTAINED FROM 'SOIL SURVEY OF RHODE ISLAND', PREPARED BY U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.

CeC - CANTON AND CHARLTON FINE SANDY LOAMS, VERY ROCKY, 3 TO 15 PERCENT SLOPES - THESE GENTLY SLOPING TO SLOPING, WELL DRAINED SOILS ARE ON SIDE SLOPES AND CRESTS OF GLACIAL UPLAND HILLS AND RIDGES. THE PERMEABILITY OF THE CANTON SOILS IS MODERATELY RAPID IN THE SURFACE LAYER AND SUBSOIL AND RAPID IN THE SUBSTRATUM. THE PERMEABILITY OF THE CHARLTON SOILS IS MODERATE TO MODERATELY RAPID. THESE SOILS ARE SUITABLE FOR COMMUNITY DEVELOPMENT.

Rf - RIDGEBURY, WHITMAN, AND LEICESTER EXTREMELY STONY FINE SANDY LOAMS - THESE NEARLY LEVEL, POORLY DRAINED AND VERY POORLY DRAINED SOILS ARE ALONG DRAINAGEWAYS AND IN DEPRESSIONS IN GLACIAL TILL UPLANDS. THE PERMEABILITY OF THE RIDGEBURY AND WHITMAN SOILS IS MODERATE OR MODERATELY RAPID IN THE SURFACE LAYER AND SUBSOIL AND SLOW OR VERY SLOW IN THE SUBSTRATUM.

SbB - SUTTON FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES - THIS GENTLY SLOPING, MODERATELY WELL DRAINED SOIL IS ON THE LOWER SIDE SLOPES OF GLACIAL UPLANDS. THE PERMEABILITY OF THIS SOIL IS MODERATE OR MODERATELY RAPID. THIS SOIL IS SUITABLE FOR COMMUNITY DEVELOPMENT.

SuB - SUTTON VERY STONY FINE SANDY LOAM, 0 TO 8 PERCENT SLOPES - THIS NEARLY LEVEL TO GENTLY SLOPING, MODERATELY WELL DRAINED SOIL IS IN SMALL DEPRESSIONS AND ON LOWER SIDE SLOPES OF THE UPLANDS. THE PERMEABILITY OF THIS SOIL IS MODERATE OR MODERATELY RAPID. THIS SOIL IS SUITABLE FOR COMMUNITY DEVELOPMENT.



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 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Duhamel



Preliminary Submission

EXISTING CONDITIONS PLAN

Red Oak Trail

AP 42 LOTS 27, 28 AND 36 (PORTION)
 SMITHFIELD, 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

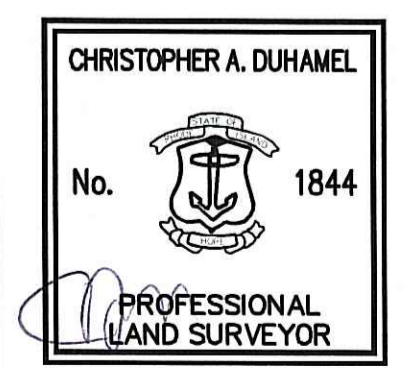
PREPARED FOR
J.C.A. Enterprises, Inc.

P.O. BOX 756
 CHEPACHET, RI 02814
 (401) 568-5801

APRIL, 2007
 DWN. BY: C.R.D.

SHEET 3 OF 10

CERTIFICATION:
 THIS PLAN CONFORMS TO A CLASS III STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.



NO.	DATE	DESCRIPTION	BY
3	5-30-07	RIDEM/RIDEM COMMENTS	E.L.T.
2	5-29-07	SITE SUITABILITY	C.R.D.
1	4-29-07	RIDEM SUB-MISSION	C.R.D.
0	4-5-07	WETLANDS SUBMISSION	C.R.D.

SCALE: 1"=80'
 0 40' 80' 160'

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DIMENSIONAL REGULATIONS

ZONING:	R-80 CONSERVATION DEVELOPMENT (NO SEWERS)
MINIMUM LOT AREA	30,000 S.F.
MINIMUM FRONTAGE AND LOT WIDTH	125 FT.
MINIMUM FRONTAGE AND LOT WIDTH UNDER FLEXIBLE ZONING*	20 FT.
MINIMUM FRONT YARD SETBACK	30 FT.
MINIMUM SIDE YARD SETBACK	16 FT.
MINIMUM REAR YARD SETBACK	40 FT.

DEVELOPMENT DATA

GROSS AREA OF PARCEL	35.00 ACRES
NUMBER OF BUILDABLE LOTS	10 LOTS
AVERAGE LOT AREA	0.78 ACRES
TOTAL AREA OF BUILDABLE LOTS	7.77 ACRES
AREA OF PUBLIC R.O.W.	1.05 ACRES
LENGTH OF PUBLIC ROADWAY	792 L.F.
AREA OF OPEN SPACE	26.18 ACRES

General Notes

- PROPOSED HOMES ARE TO BE SERVICED BY PUBLIC WATER AND ISDS.
- THE DRAINAGE SYSTEM IS DESIGNED TO MEET THE TOWN OF SMITHFIELD LAND DEVELOPMENT AND SUBDIVISION REGULATIONS WITH THE USE OF CATCH BASINS, SWALES, CULVERTS, AND DRAINAGE BASINS AS NEEDED. THE STORMWATER MANAGEMENT SYSTEM MEETS THE RIDEM BEST MANAGEMENT PRACTICES.
- PROPOSED RIGHT OF WAYS ARE TO BE 50' WIDE WITH PAVEMENT WIDTHS NO LESS THAN 26' IN WIDTH MEASURED BACK OF BERM (12' TRAVEL LANES WITH 1' CAPE COD BERMS). NO SIDEWALKS ARE REQUIRED AS HAZARDOUS TO PEDESTRIAN SAFETY LOW.
- PROPOSED HOMES ARE REQUIRED TO BE MORE THAN 100 FEET FROM EDGE OF WETLANDS.

Waivers Granted

- PAVEMENT WIDTHS SHALL NOT BE LESS THAN 30' (THIRTY FEET) IN WIDTH MEASURED BETWEEN CURBS AND CENTERED BETWEEN PROPERTY LINES. LAND DEVELOPMENT AND SUBDIVISION REVIEW REGULATIONS SECTION V ARTICLE C.5.B. THE PROPOSED SUBDIVISION REQUESTS A WAIVER FOR 26' PAVEMENT WIDTH (TWO 12' TRAVEL LANES WITH 1' CAPE COD BERMS).
- THE PROPOSED SUBDIVISION INCLUDES FLEXIBLE LOT FRONTAGES AND LOT WIDTHS WHICH ADHERE TO ARTICLE 6.9 "FLEXIBLE LOT FRONTAGE AND WIDTH." THE FLEXIBLE LOT FRONTAGE WILL REQUIRE A WAIVER FROM THE TOWN OF SMITHFIELD PLANNING BOARD.

RIDEM Site Suitability Notes

- THERE ARE NO KNOWN EXISTING OR PROPOSED PRIVATE WELLS WITHIN 200 FT. OF THE PROPOSED DEVELOPMENT EXCEPT WHERE SHOWN.
- THERE ARE NO KNOWN EXISTING OR PROPOSED ISDS* WITHIN 200 FT. OF THE DEVELOPMENT EXCEPT WHERE SHOWN.
- THERE ARE NO KNOWN PUBLIC WELLS WITHIN 500 FT. OF A PROPOSED ISDS DEVELOPMENT.
- THERE ARE NO KNOWN EXISTING OR PROPOSED WELLS WITHIN 200 FT. OF A PROPOSED ISDS LEACH FIELD.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Hart



Preliminary Submission

ERIC M. PRIVE
No. 8662
REGISTERED PROFESSIONAL ENGINEER CIVIL

OVERALL PLAN

Red Oak Trail

AP 42 LOTS 27, 28 AND 36 (PORTION)
SMITHFIELD, 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

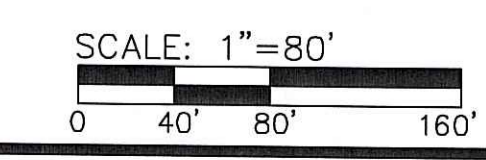
PREPARED FOR
J.C.A. Enterprises, Inc.

P.O. BOX 756
CHEPACHET, RI 02814
(401) 568-5801

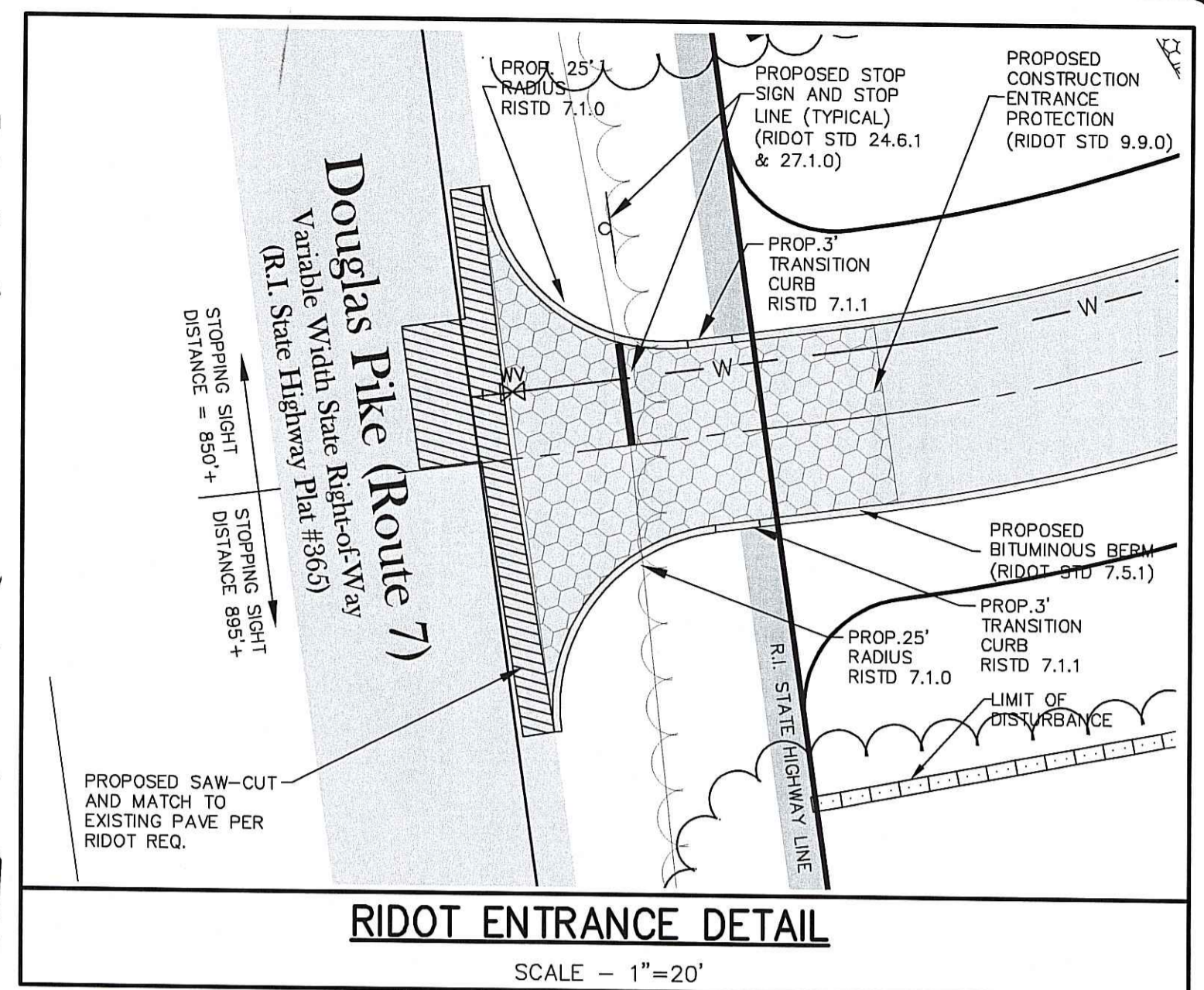
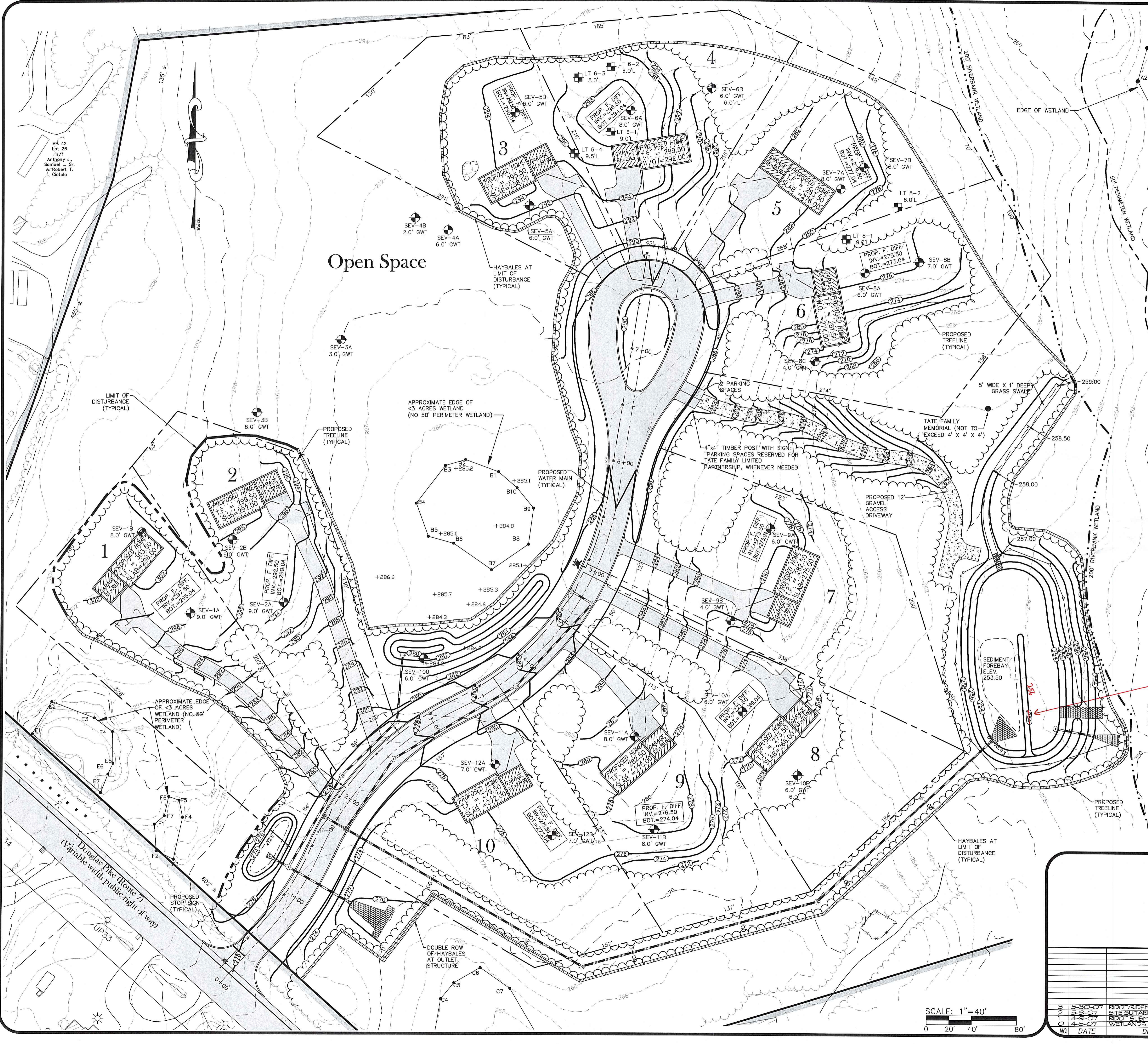
APRIL, 2007
DWN. BY: C.R.D.

SHEET 4 OF 10

NO.	DATE	DESCRIPTION	BY
3	5-30-07	RIDEM COMMENTS	MLP
2	5-30-07	SITE SUITABILITY	MLP
1	4-28-07	RIDOT SUBMISSION	MLP
0	4-28-07	WETLANDS SUBMISSION	MLP



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- RIDOT Notes**
1. ALL WORK WITHIN THE STATE'S R.O.W. WILL CONFORM TO RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, INCLUDING ALL REVISIONS AND THE RI STANDARD DETAILS.
 2. ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES 2003 INCLUDING ALL REVISIONS.
 3. NO LANE OR SHOULDER CLOSURES SHALL BE PERFORMED WITHIN THE STATE'S R.O.W. DURING PEAK TRAFFIC HOURS.
 4. WATER CONNECTION WITHIN THE STATE ROW WILL REQUIRE A SEPARATE RIDOT UTILITY PERMIT. CONTRACTOR TO OBTAIN BEFORE CONSTRUCTION.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Charles A. Harkin

The contour elevation for the interior low term shall be changed to indicate an elevation of 256 per RIDEM.



Preliminary Submission

ERIC M. PRIVE
No. 8662
REGISTERED PROFESSIONAL ENGINEER
CIVIL

GRADING PLAN

Red Oak Trail

AP 42 LOTS 27, 28 AND 36 (PORTION)
SMITHFIELD, 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

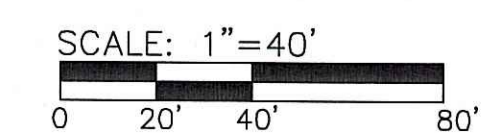
PREPARED FOR
J.C.A. Enterprises, Inc.

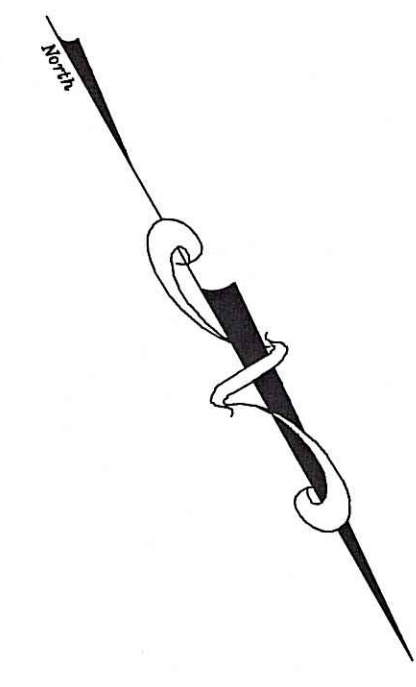
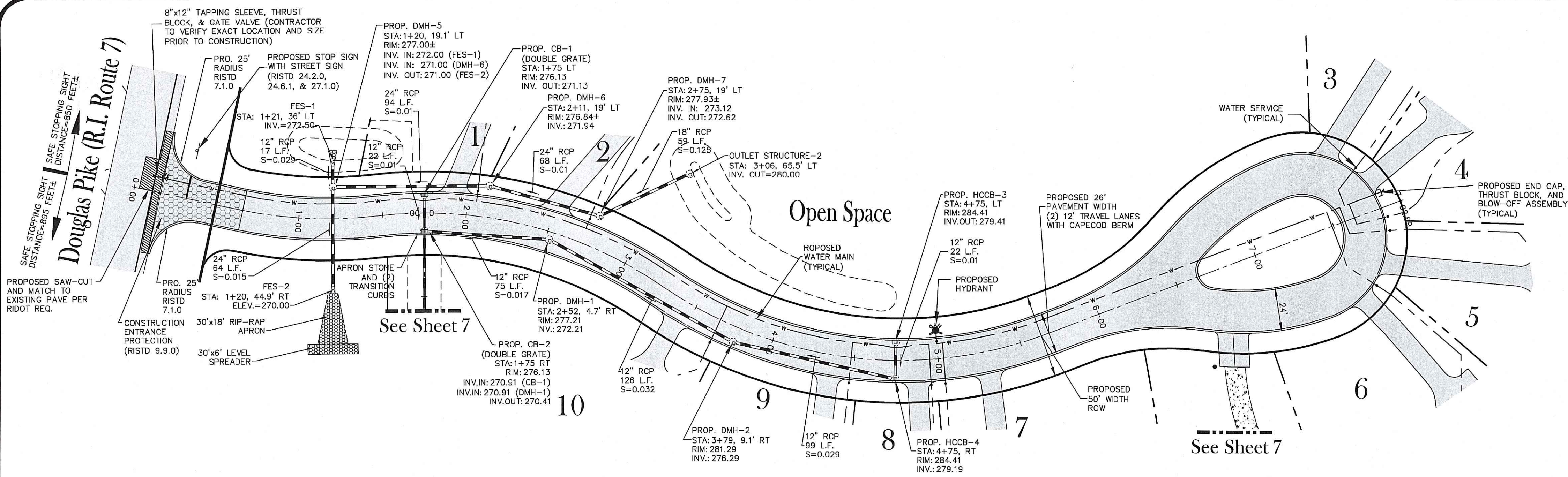
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APRIL, 2007
DWN. BY: C.R.D.

SHEET 5 OF 10

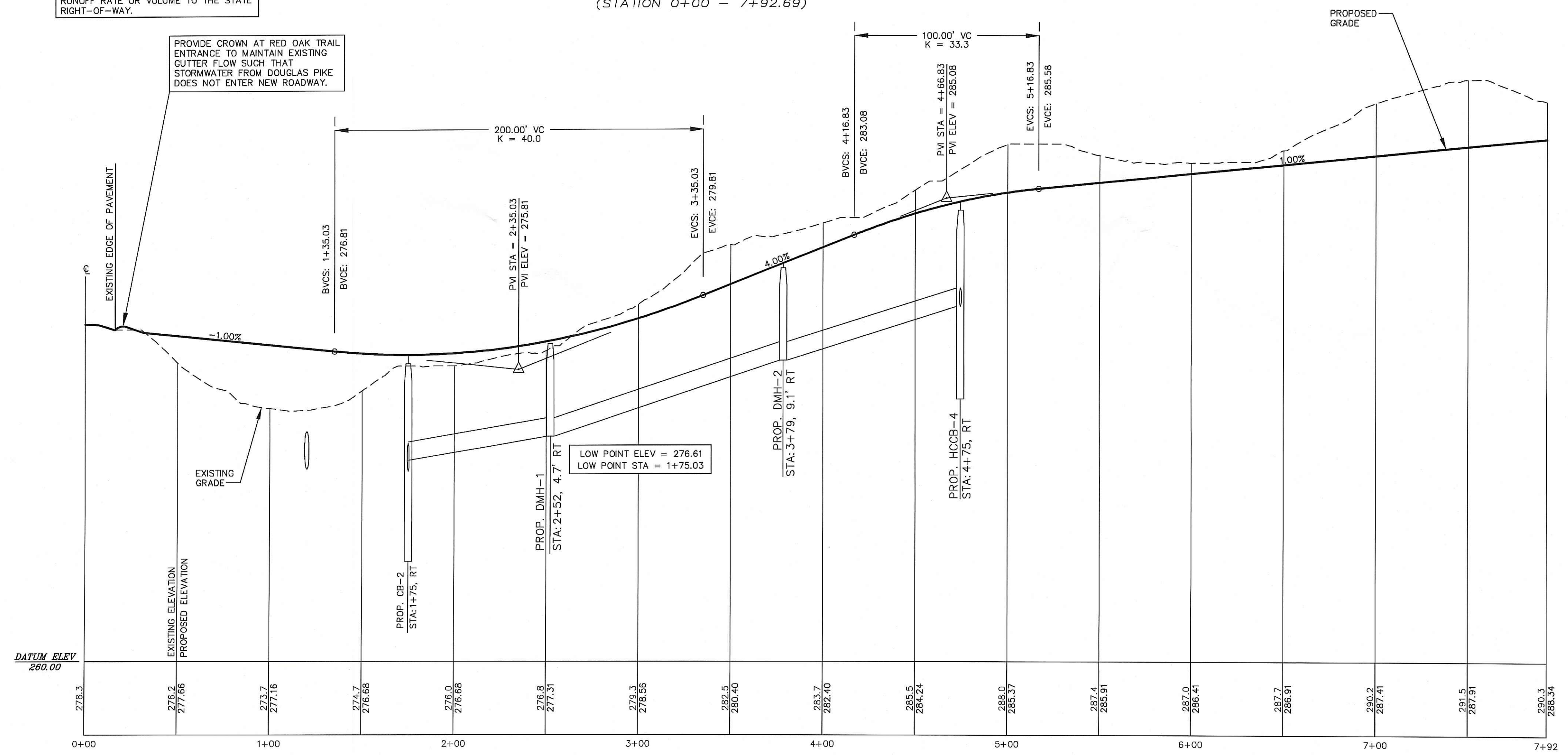
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2	5-9-07	SITE SUITABILITY	
1	4-9-07	RIDOT SUBMISSION	
0	4-9-07	WETLAND SUBMISSION	





ALL STORMWATER RUNOFF IS DIRECTED AWAY FROM THE STATE RIGHT-OF-WAY. THERE IS NO INCREASE IN THE PEAK RUNOFF RATE OR VOLUME TO THE STATE RIGHT-OF-WAY.

Red Oak Trail (STATION 0+00 - 7+92.69)



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Charles A. Herbert



Preliminary Submission

ERIC M. PRIVE
No. 8662
REGISTERED PROFESSIONAL ENGINEER
CIVIL

PLAN AND PROFILE

Red Oak Trail

AP 42 LOTS 27, 28 AND 36 (PORTION)
SMITHFIELD, RHODE ISLAND

PREPARED BY
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ENGINEERING, SURVEYING AND PLANNING CONSULTANTS

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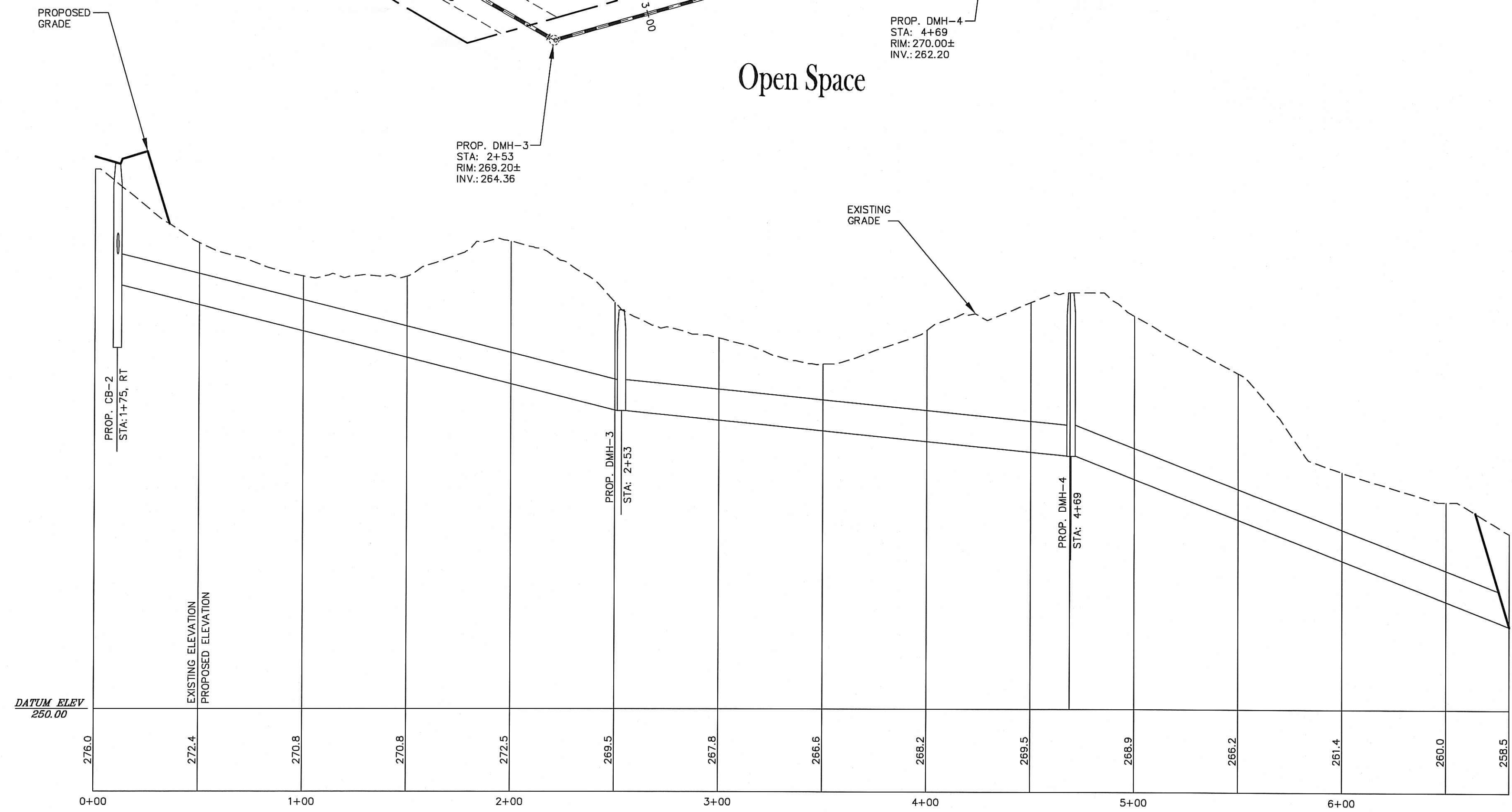
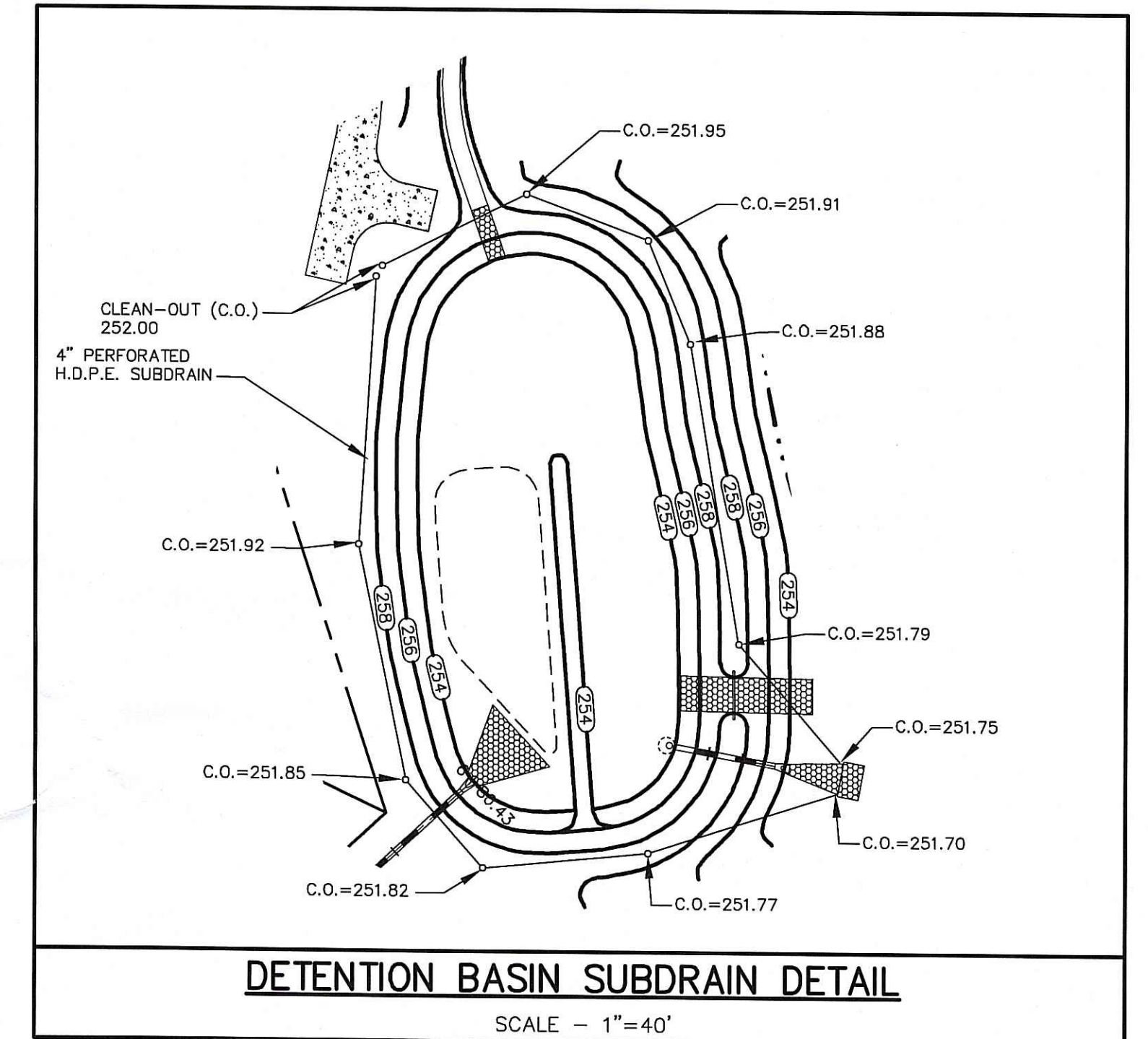
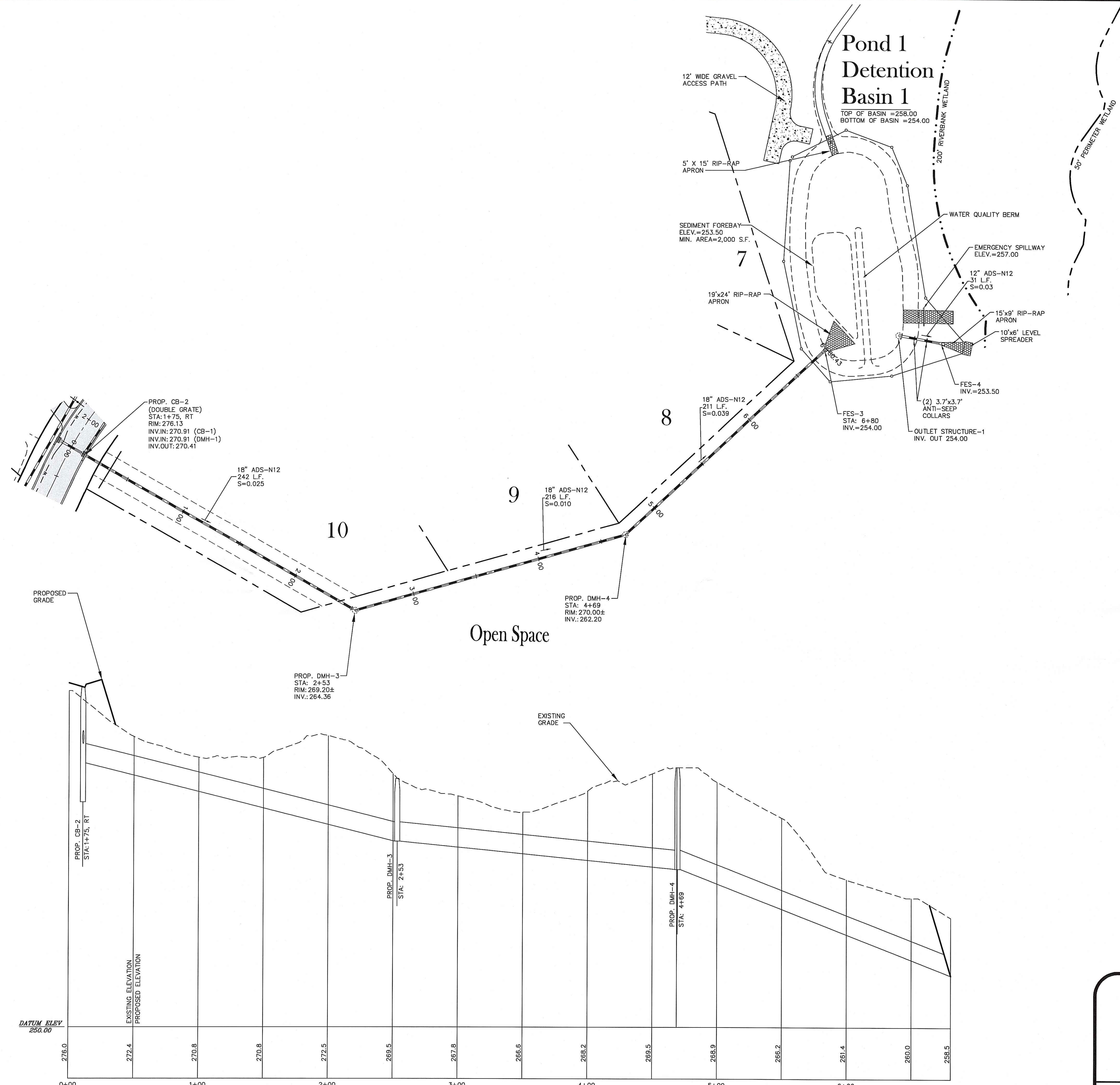
P.O. BOX 756
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NO.	DATE	DESCRIPTION	BY
3	5-30-07	ROOT/RIDEM COMMENTS	ELT
2	5-29-07	SITE SUITABILITY	C.R.D.
1	4-29-07	ROOT SUBMISSION	C.R.D.
0	4-29-07	WETLANDS SUBMISSION	C.R.D.

APRIL 2007
DWN. BY: C.R.D.

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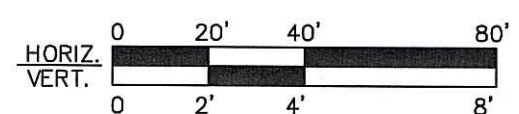
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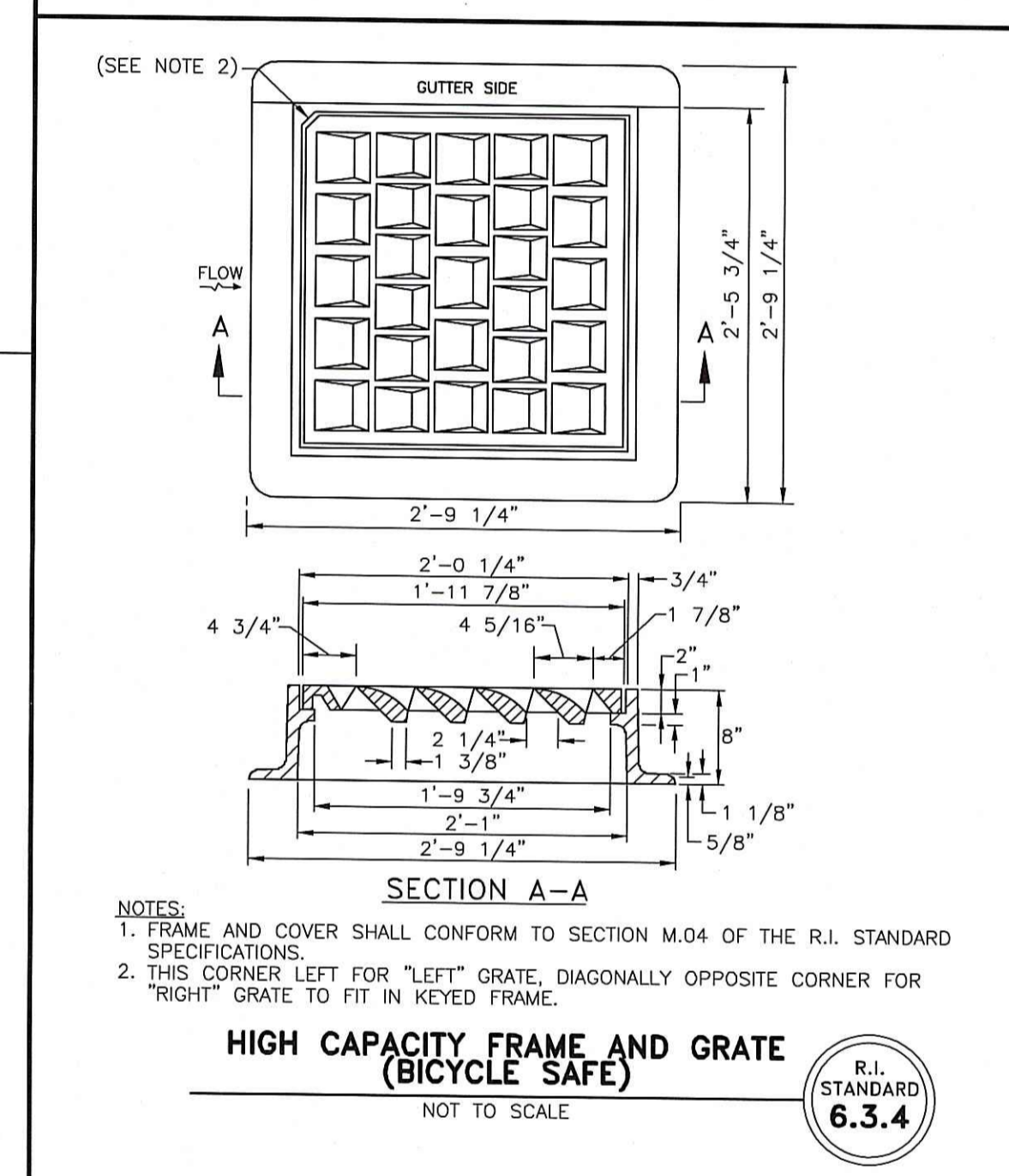
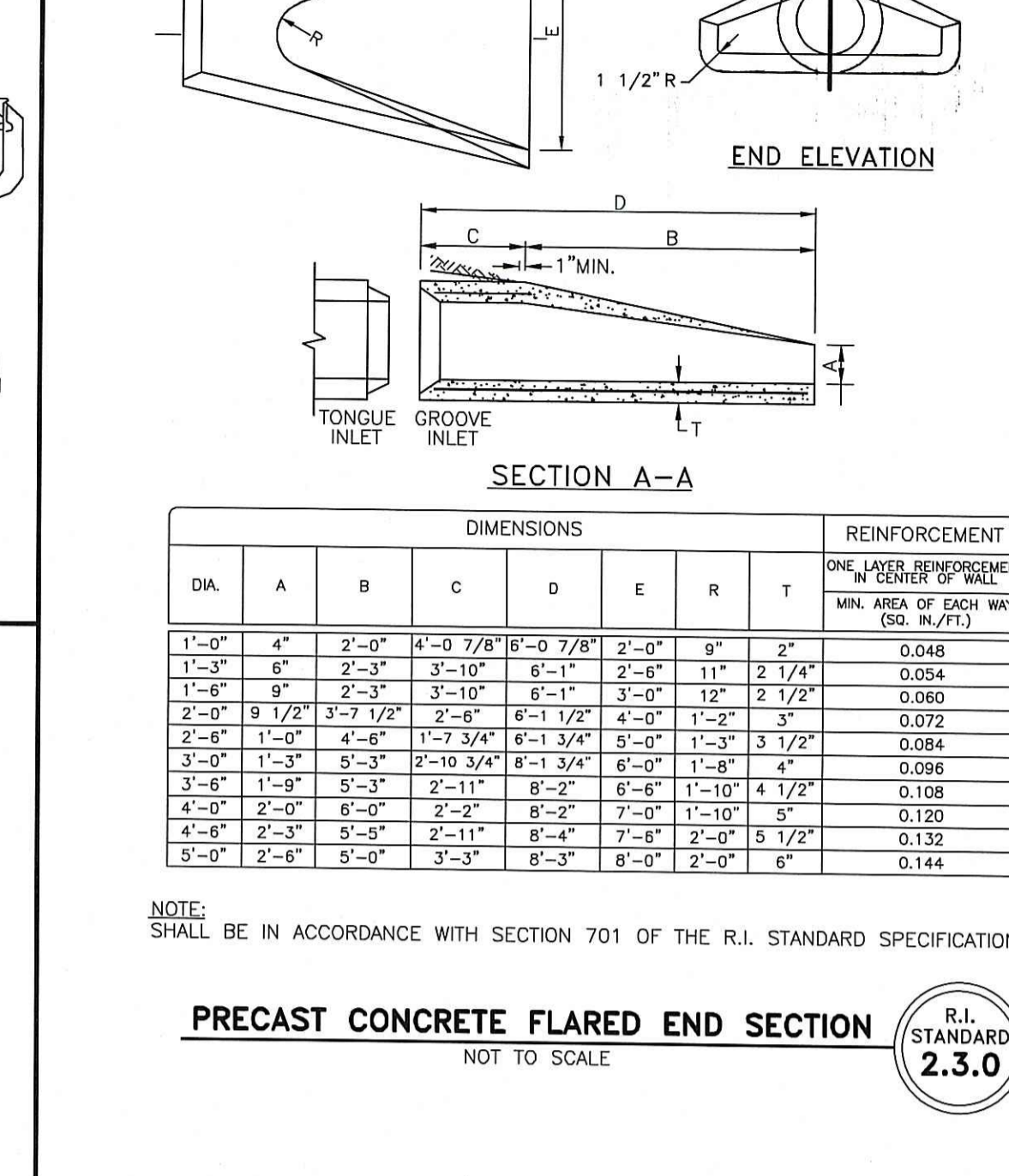
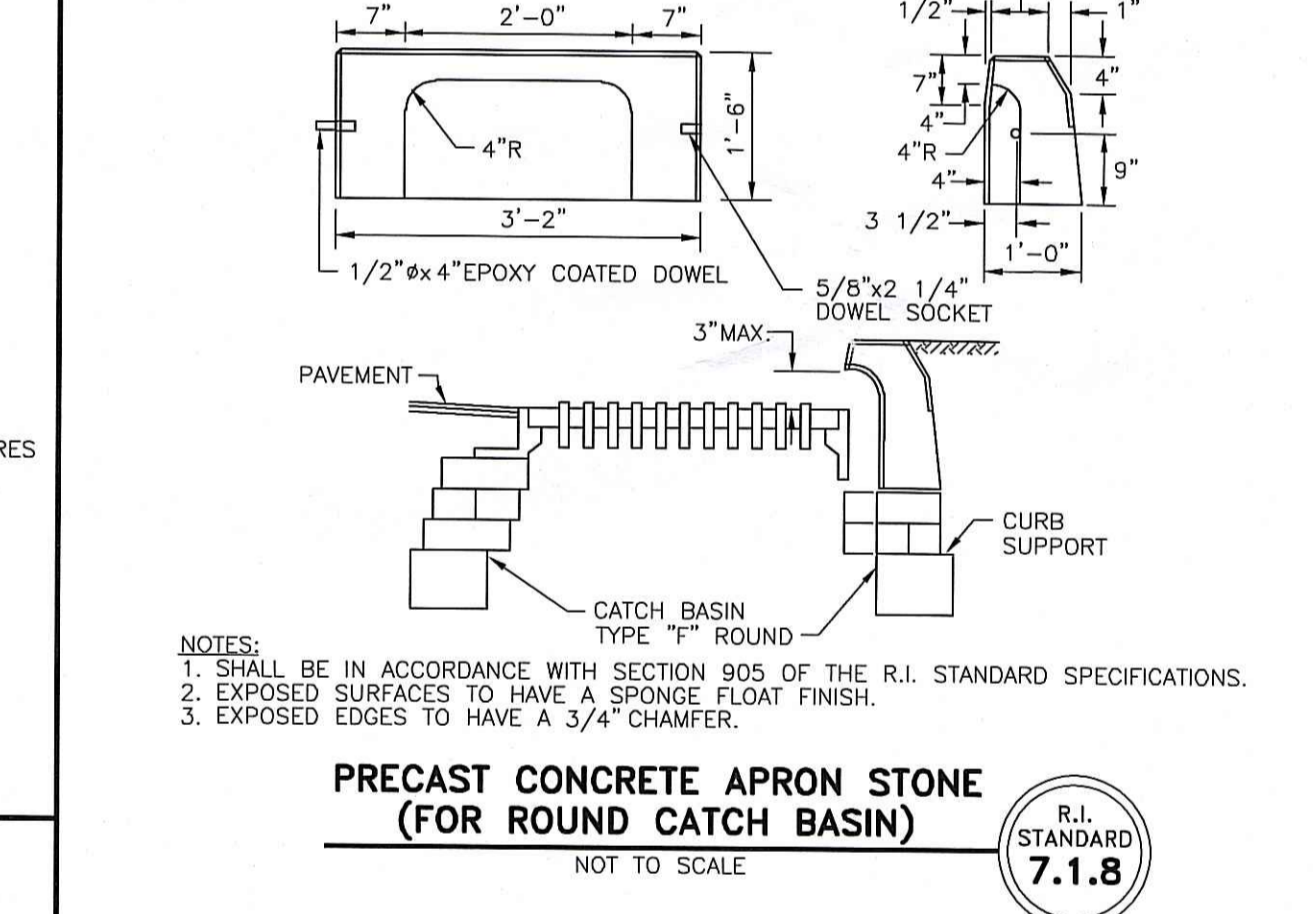
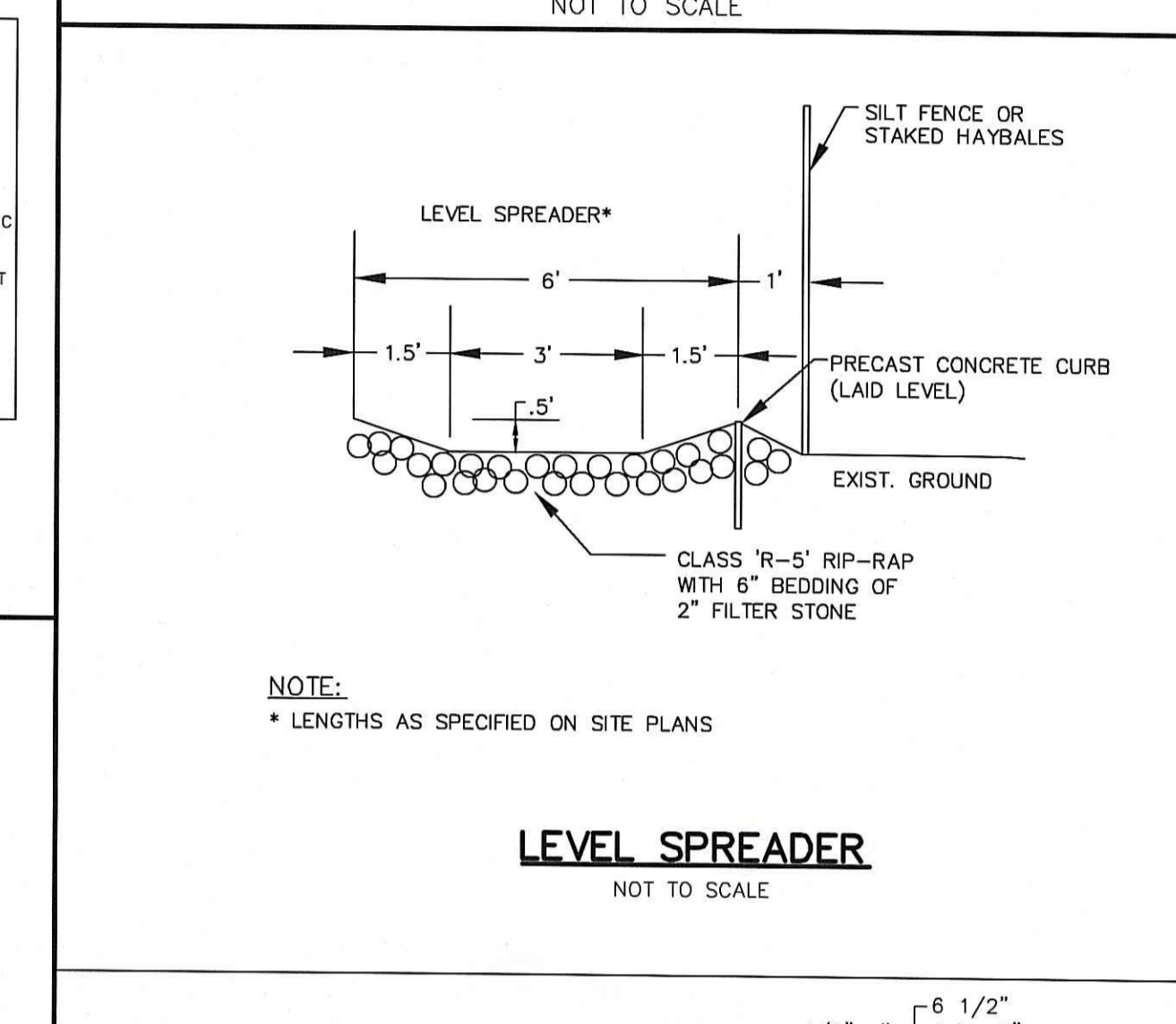
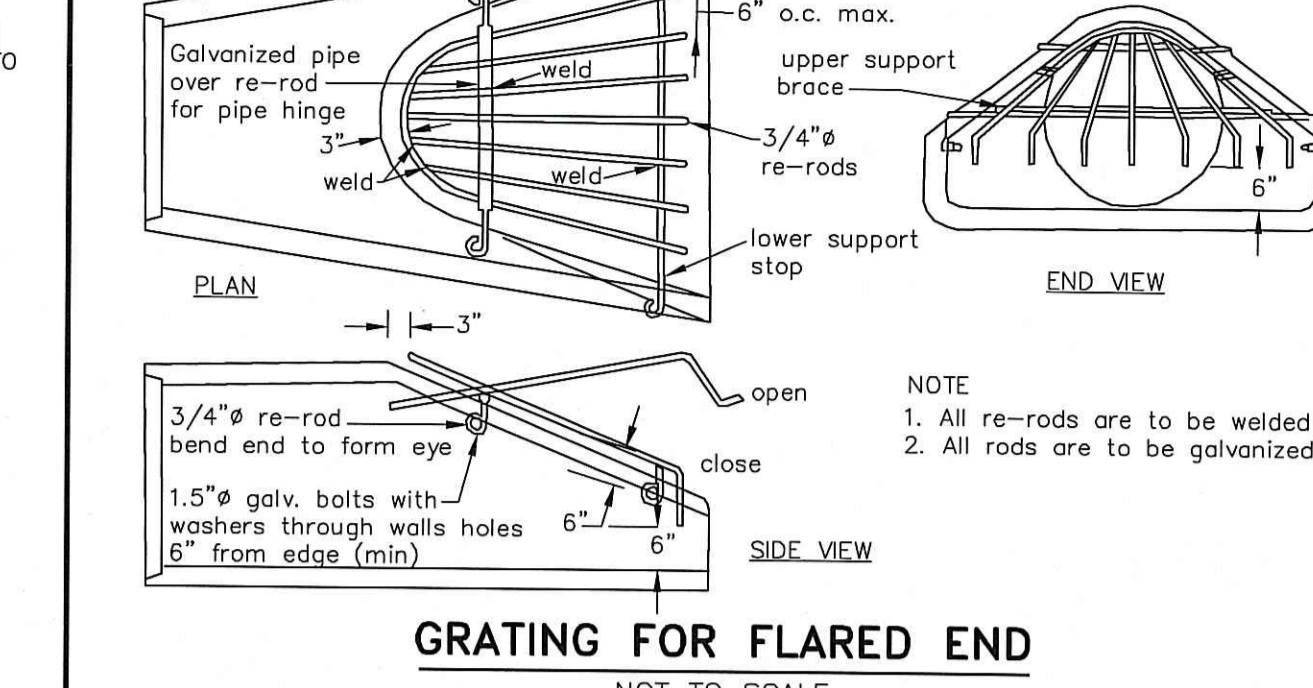
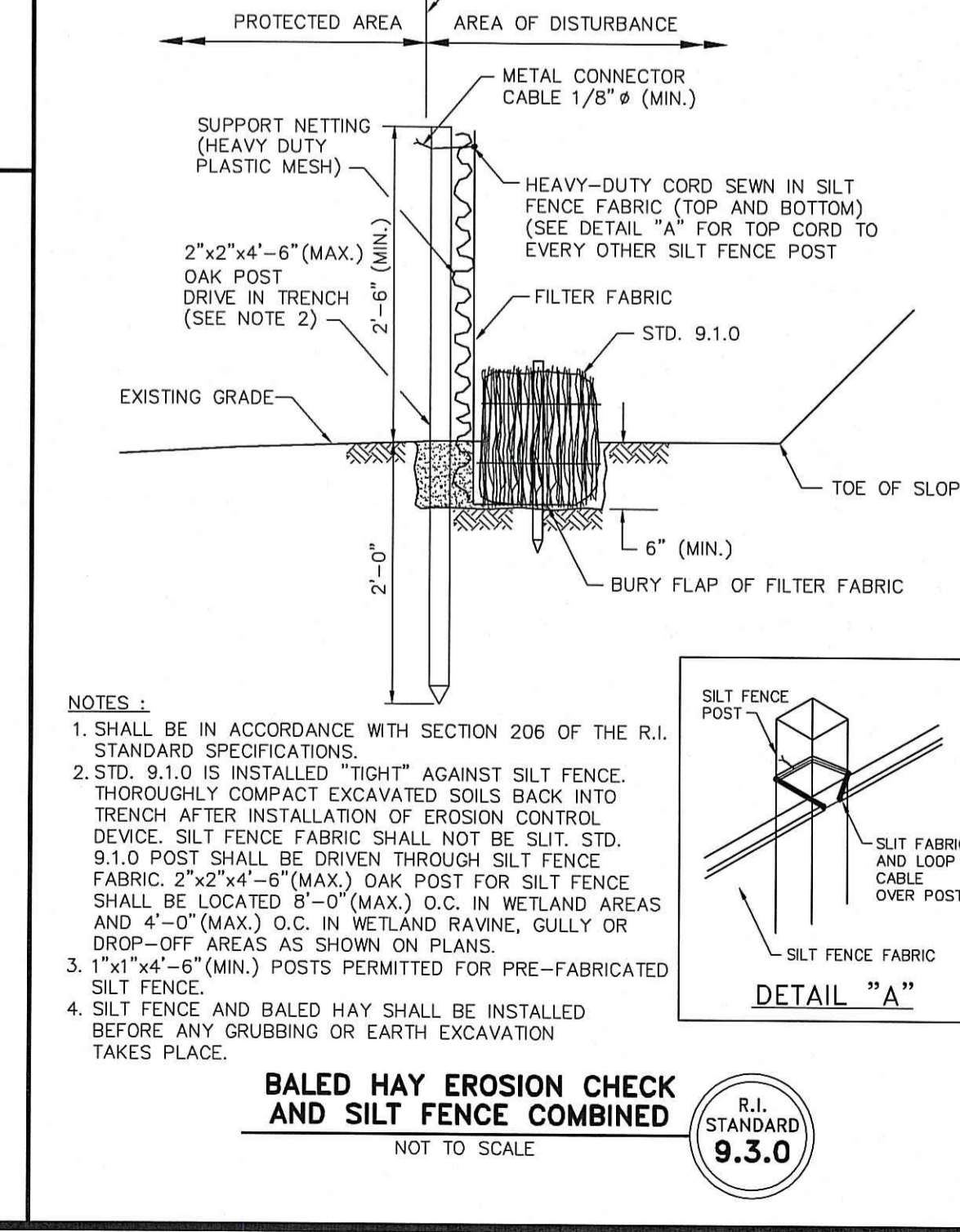
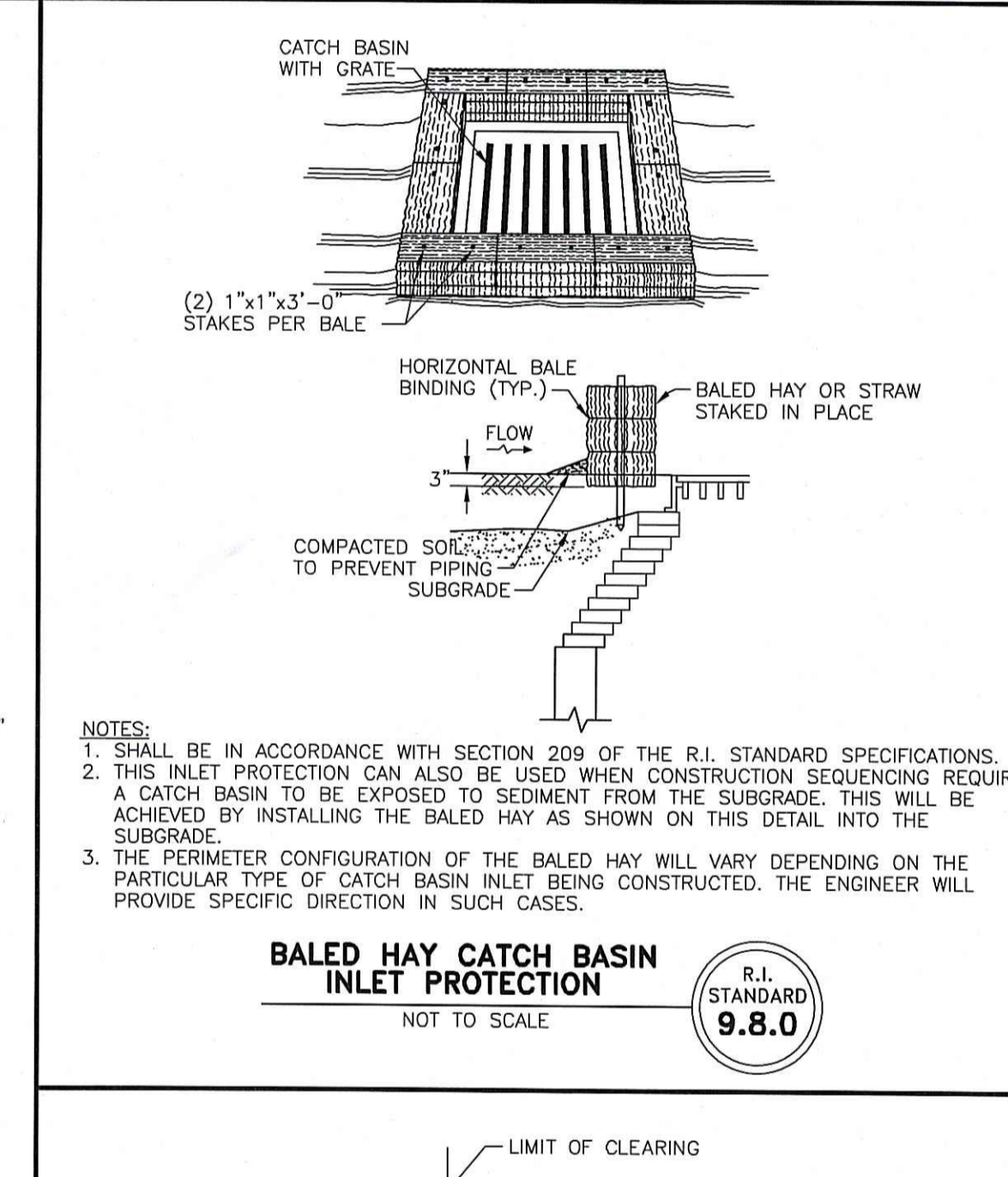
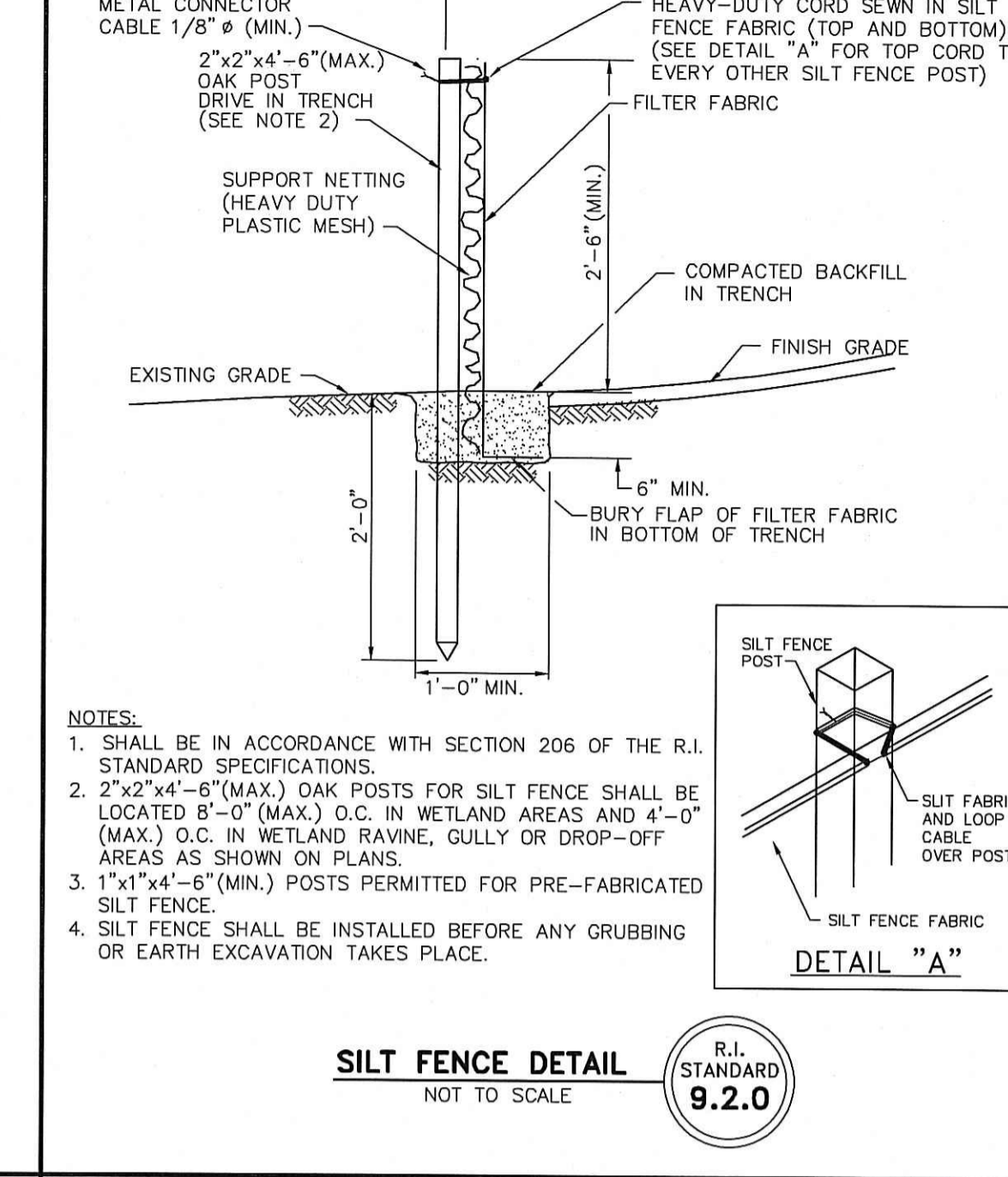
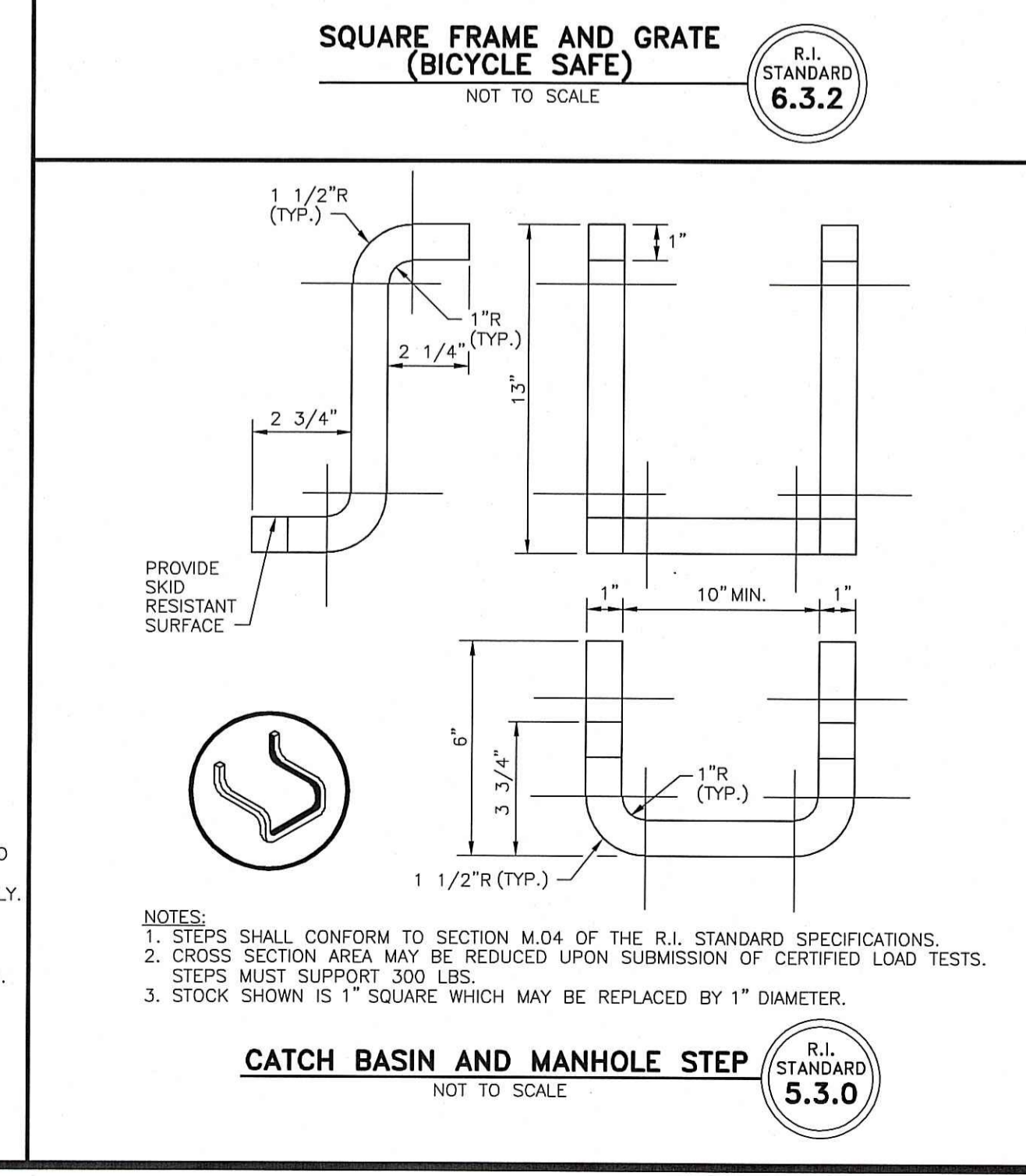
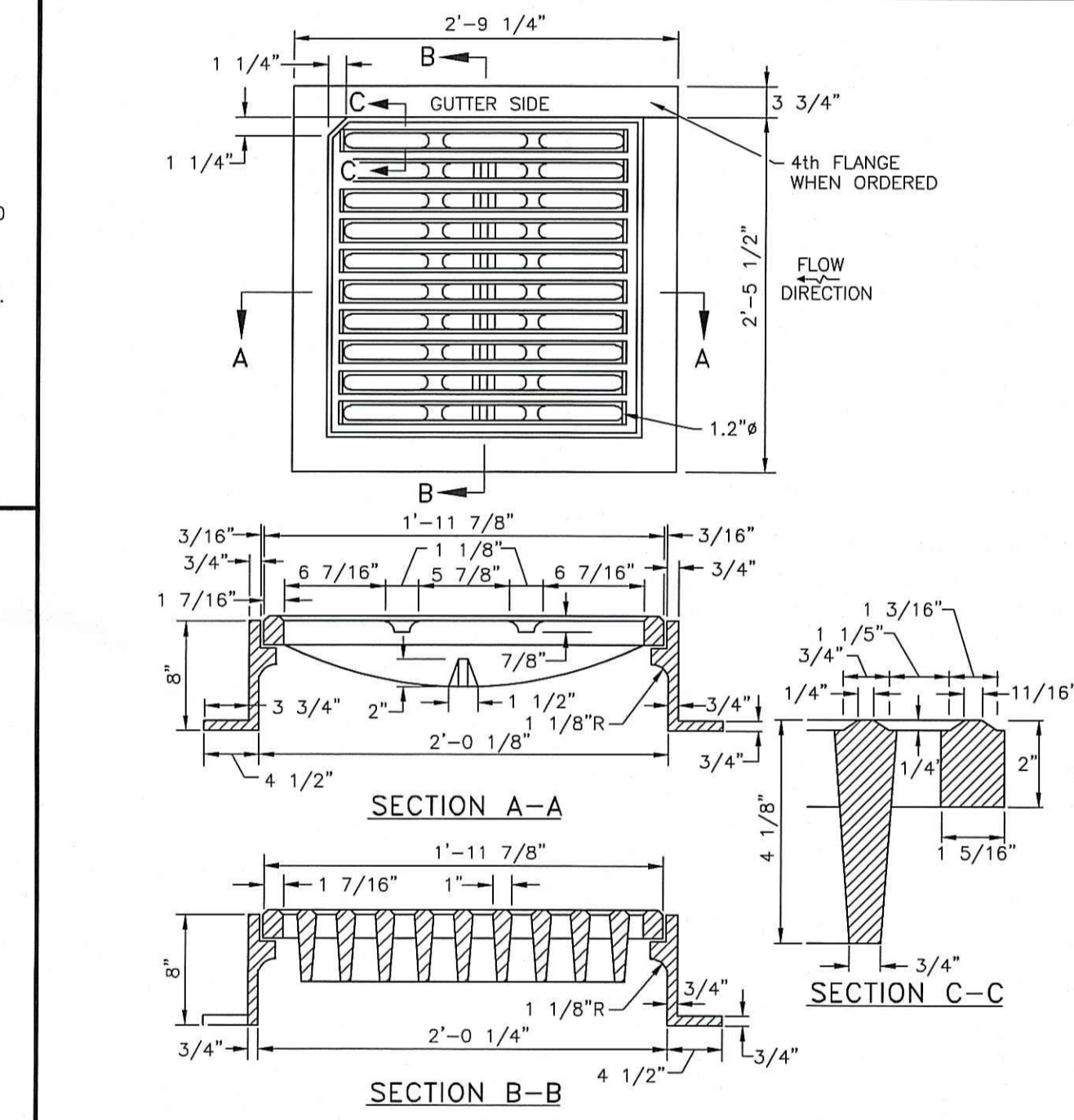
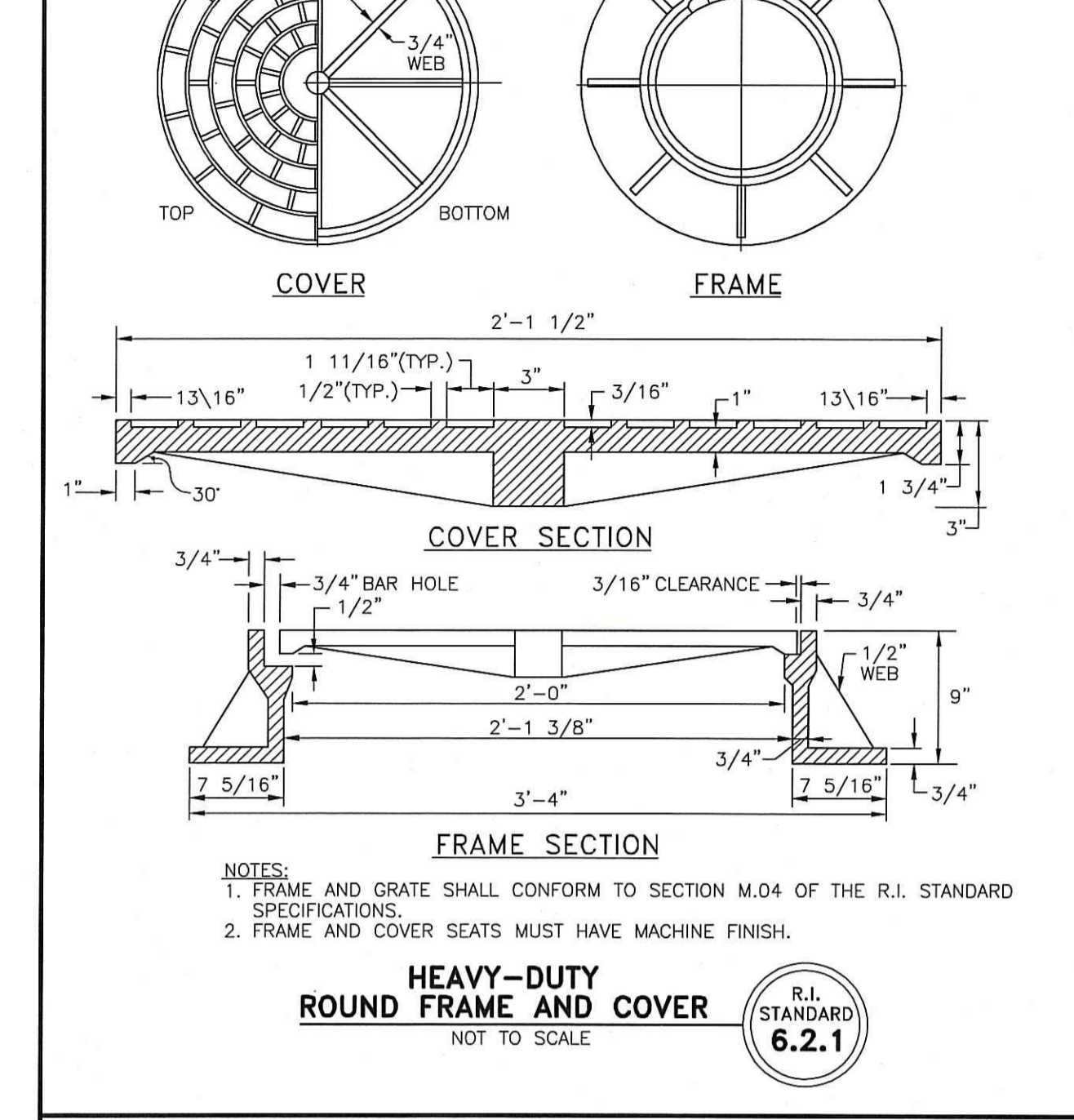
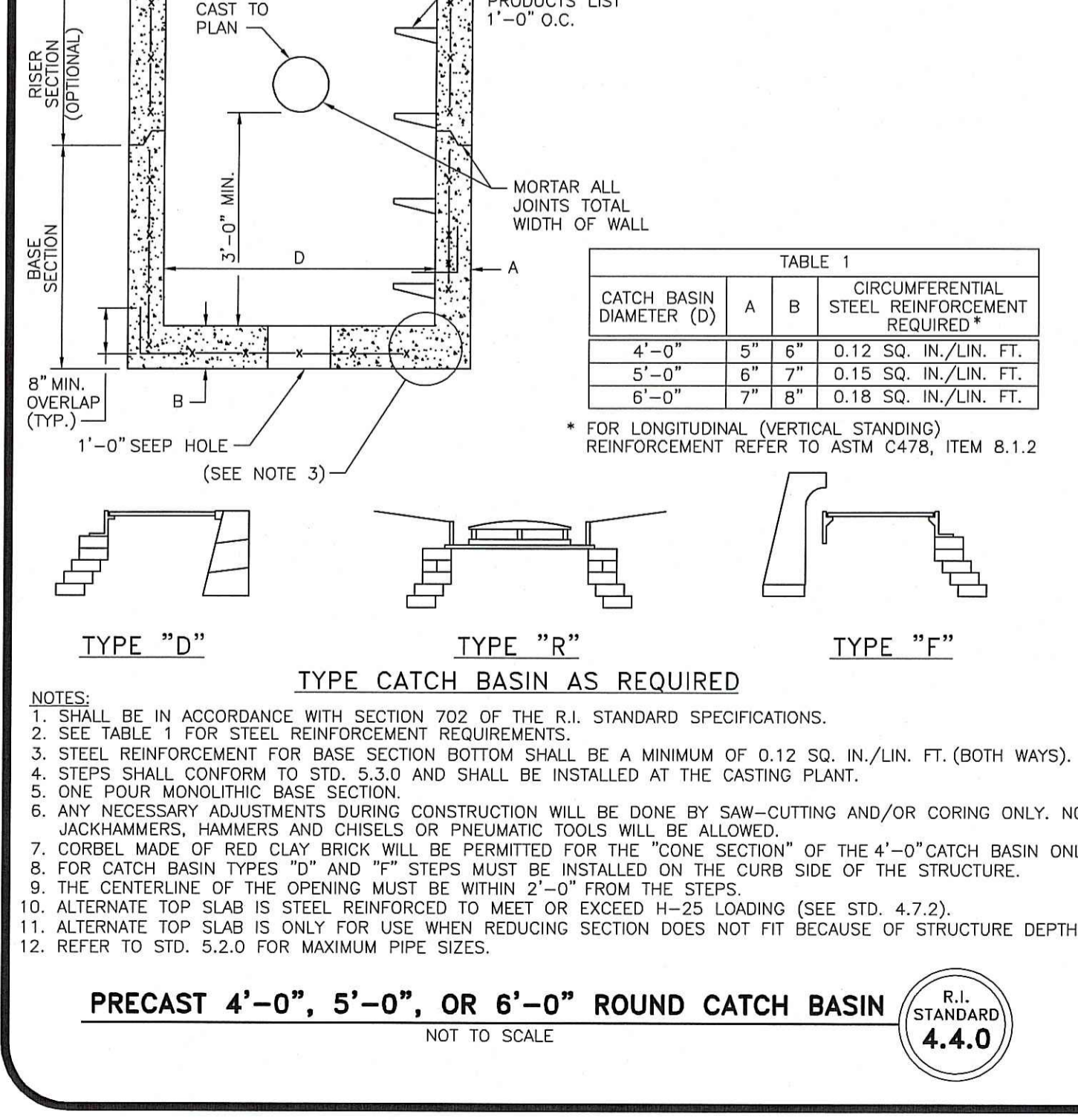
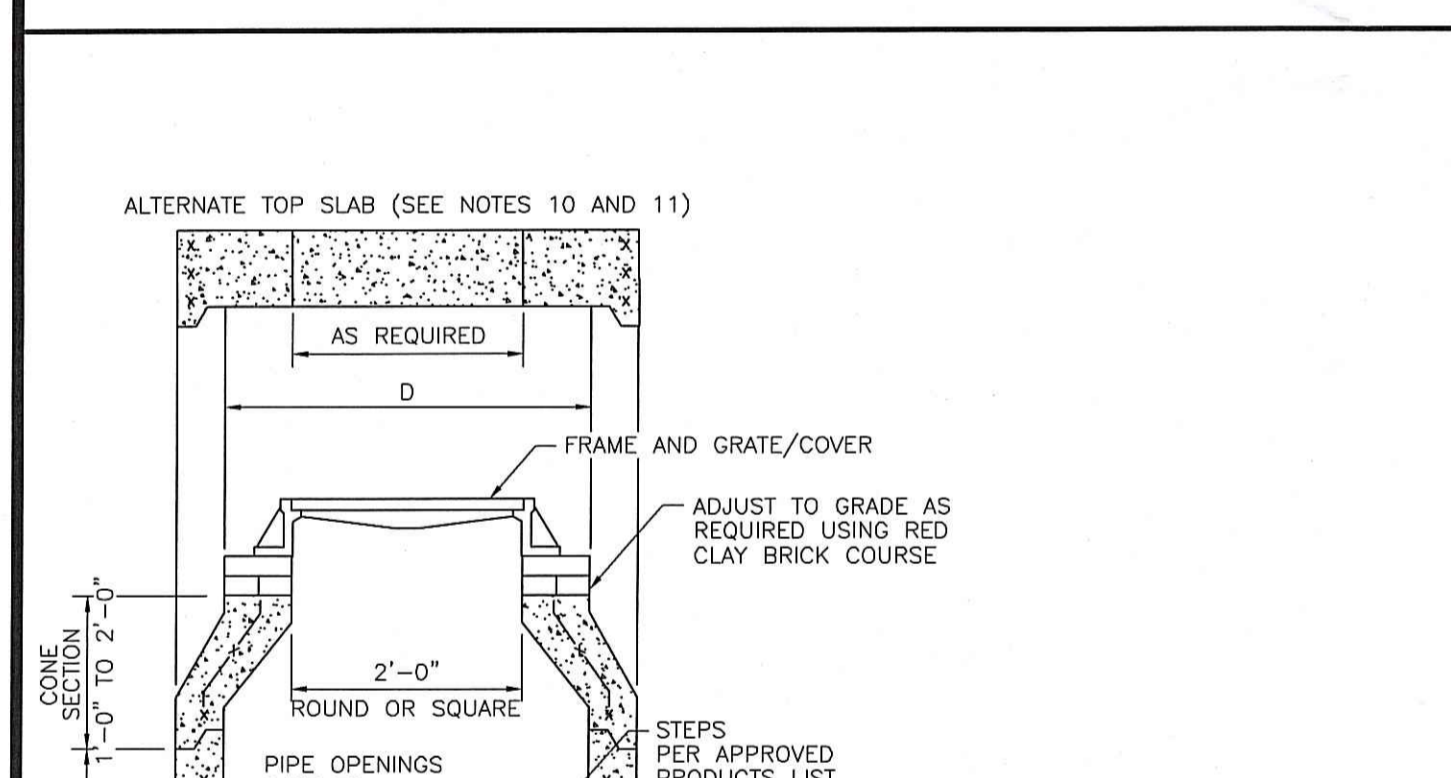
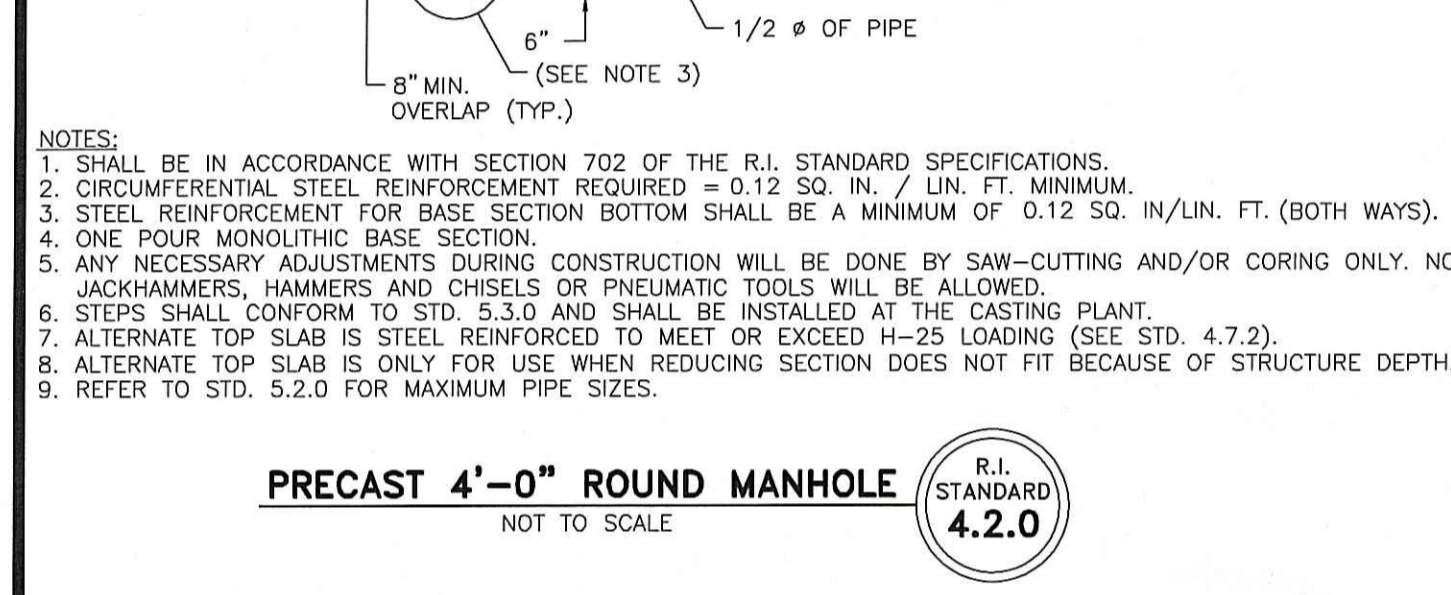
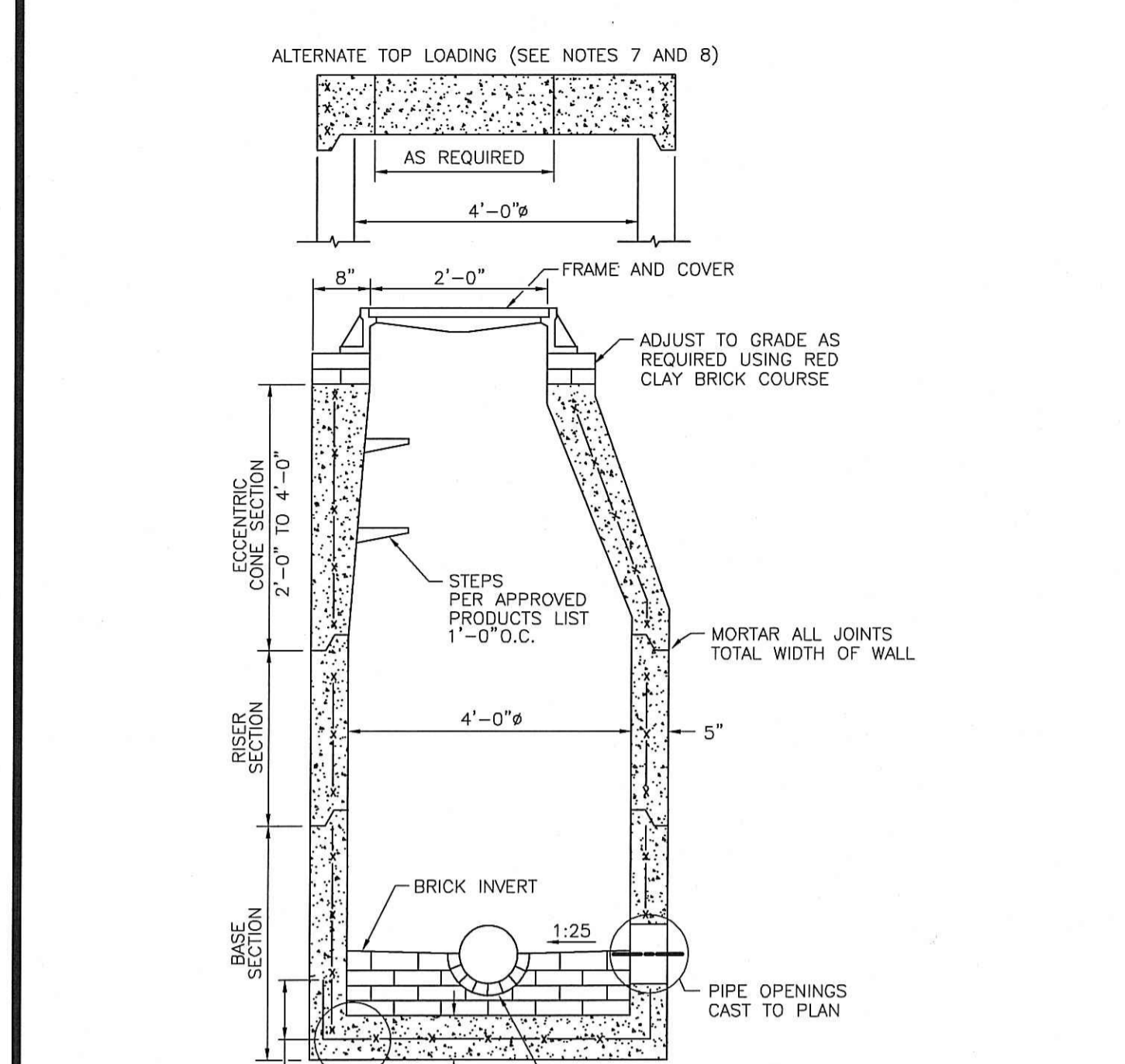
Charles A. Hackett



Preliminary Submission

		<p>PLAN AND PROFILE</p> <p>Red Oak Trail</p> <p>AP 42 LOTS 27, 28 AND 36 (PORTION) SMITHFIELD, RHODE ISLAND</p> <p>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</p> <p>PREPARED FOR J.C.A. Enterprises, Inc. P.O. BOX 756 CHEPACHET, RI 02814 (401) 568-5801</p>	
<p>3 5-30-07 RIDOT/RIDEM COMMENTS</p> <p>2 4-28-07 SITE SUITABILITY</p> <p>1 4-28-07 RIDOT SUBMISSION</p> <p>0 4-18-07 WETLANDS SUBMISSION</p>	<p>1 5-30-07</p> <p>2 4-28-07</p> <p>1 4-28-07</p> <p>0 4-18-07</p>	<p>DATE</p> <p>DESCRIPTION</p> <p>BY</p>	<p>APRIL 2007</p> <p>DWN. BY: G.R.D.</p>





DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 17 2007 FILE # 07-0155
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Hales

Preliminary Submission

ERIC M. PRIVE
No. 8662
REGISTERED PROFESSIONAL ENGINEER
CIVIL

DETAIL SHEET
Red Oak Trail
AP 42 LOTS 27, 28 AND 36 (PORTION)
SMITHFIELD, RHODE ISLAND

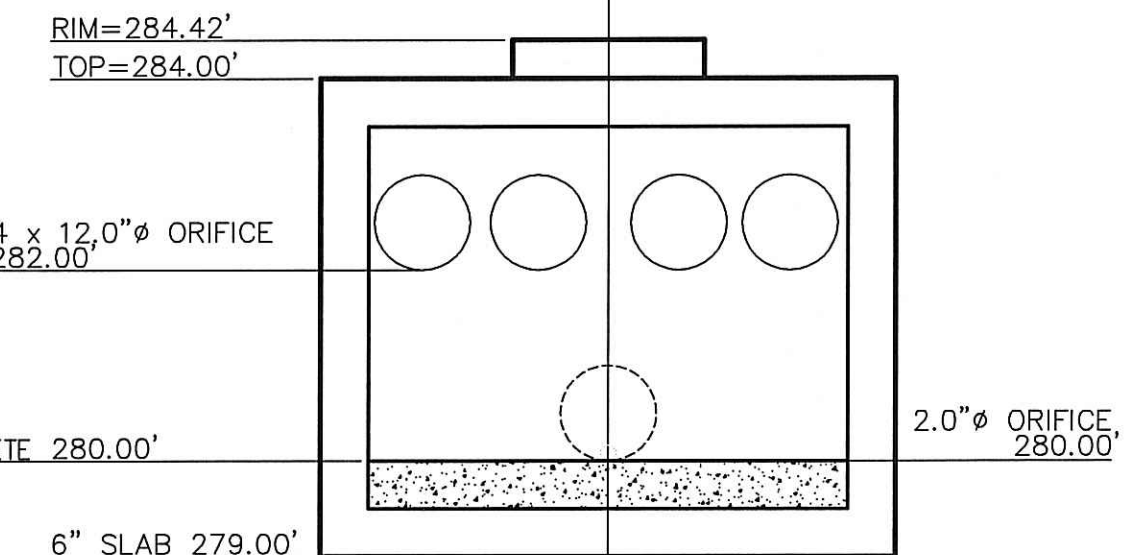
PREPARED BY
DiPrete Engineering Associates, Inc.
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TWO STAFFORD COURT
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J.C.A. Enterprises, Inc.
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CHEPACHET, RI 02814
(401) 568-5801

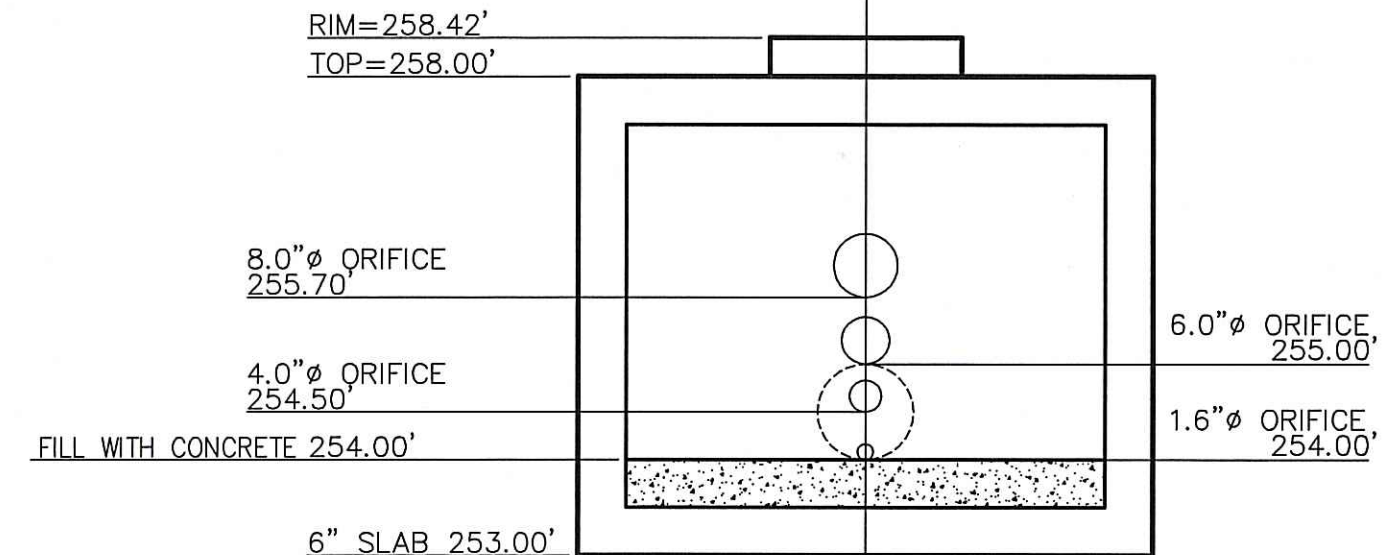
APRIL, 2007
DWN. BY: C.R.D.

SHEET 8 OF 10

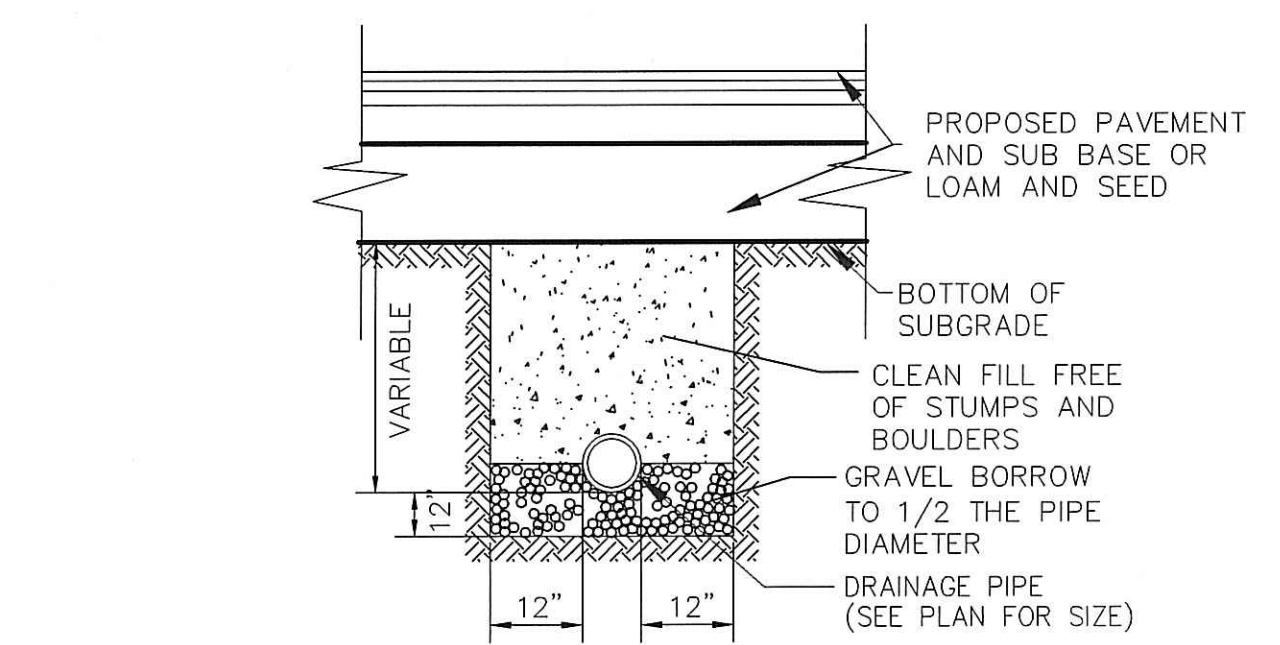
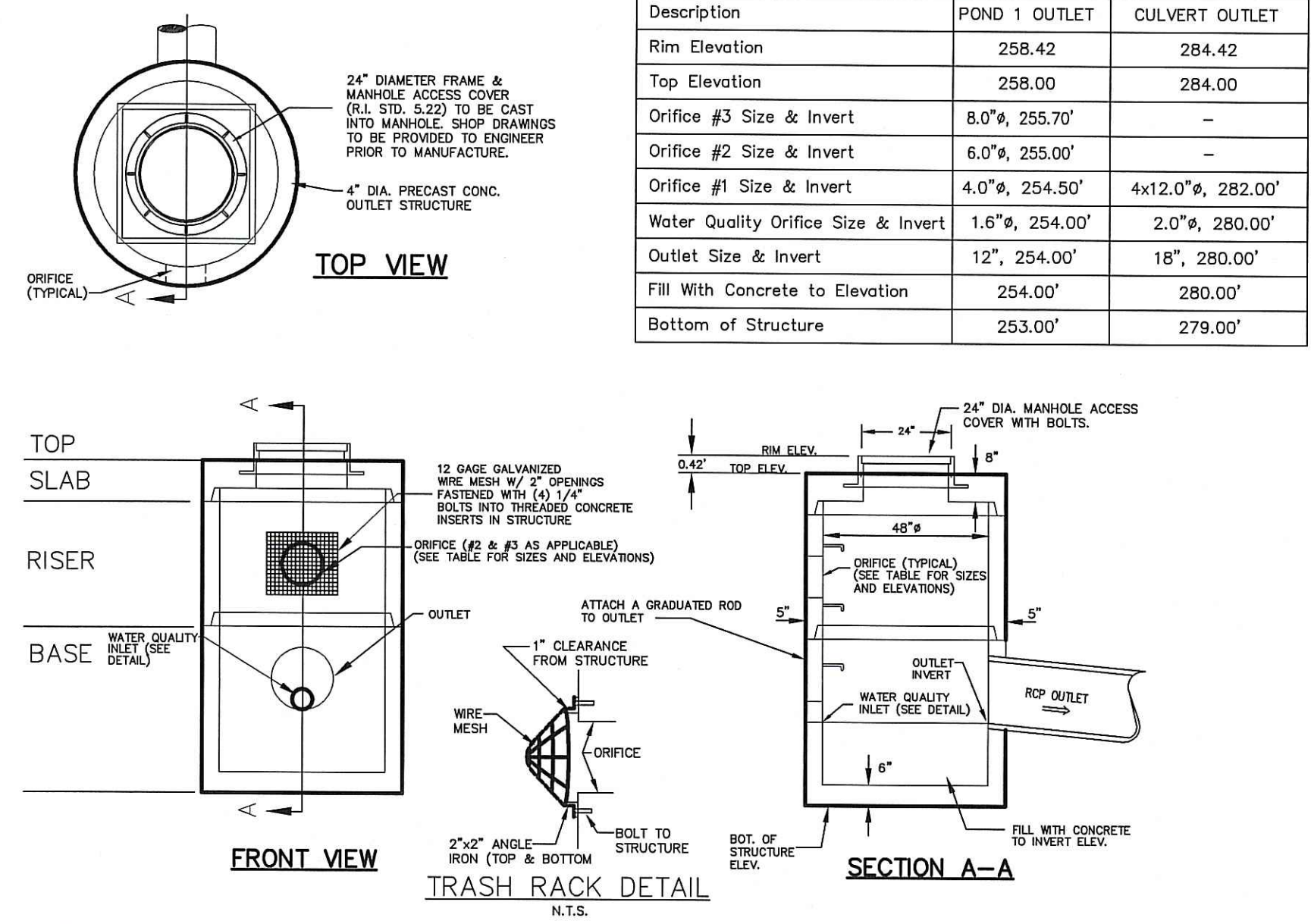
NO.	DATE	DESCRIPTION	BY
3	5-30-07	REVISION COMMENTS	ELT
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1	4-30-07	REVISION COMMENTS	ELT
0	4-30-07	WETLANDS SUBMISSION	CRD



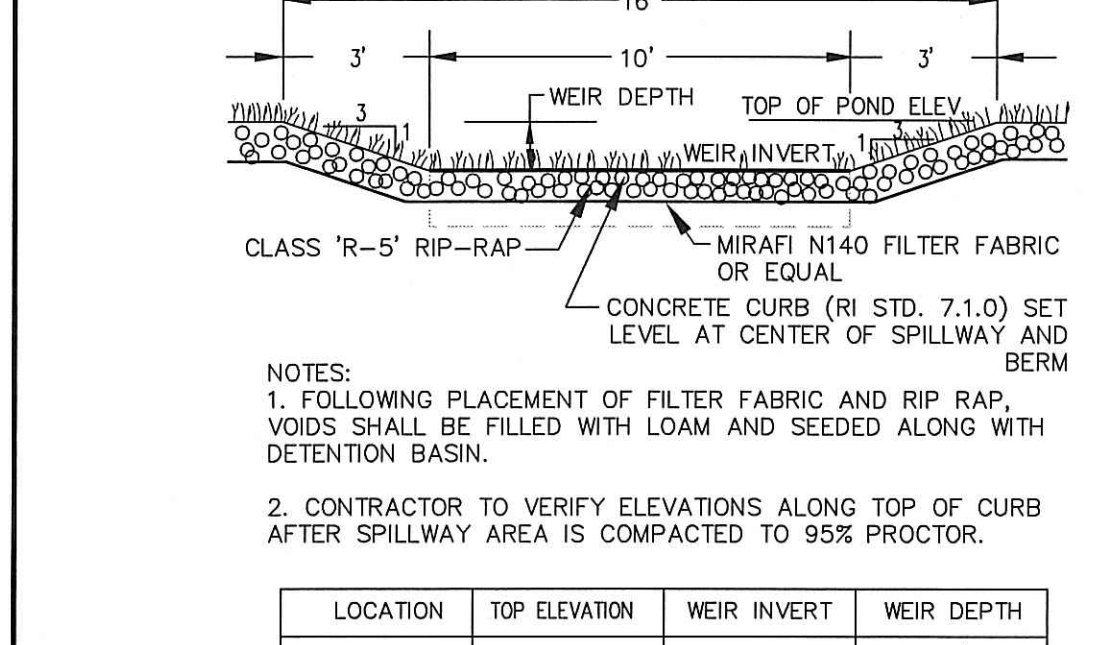
CULVERT OUTLET
SCALE: 1"=2'
CULVERT 4' DIAMETER OUTLET STRUCTURE-1



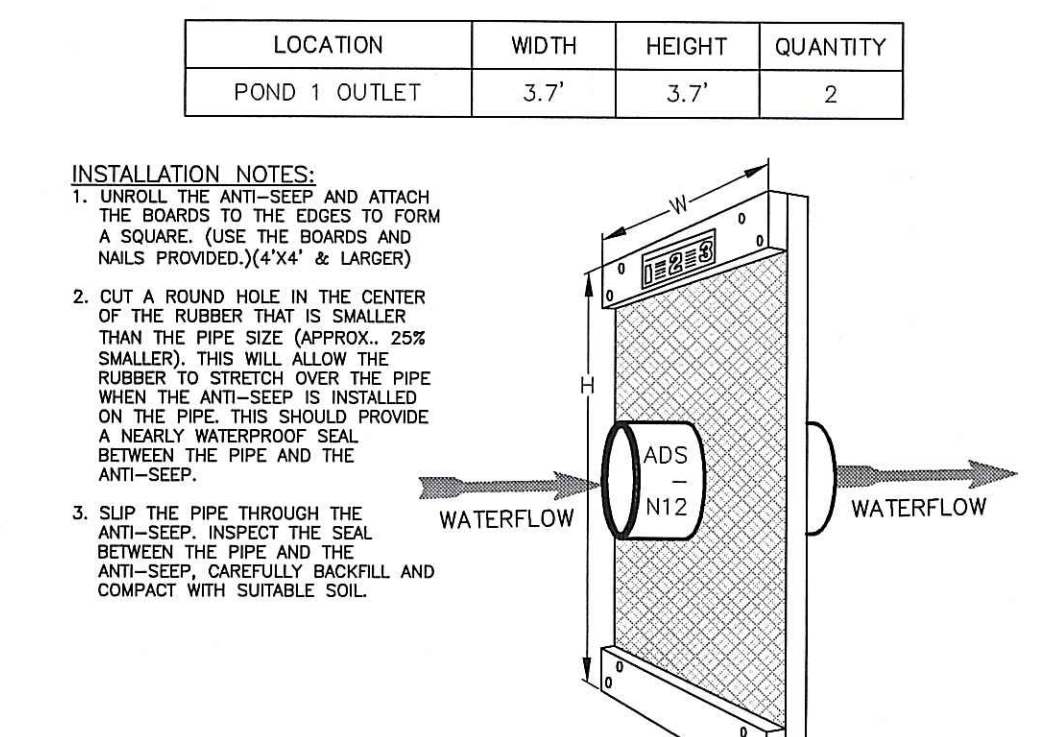
DETENTION BASIN OUTLET
SCALE: 1"=2'
POND 1 4' DIAMETER OUTLET STRUCTURE-1



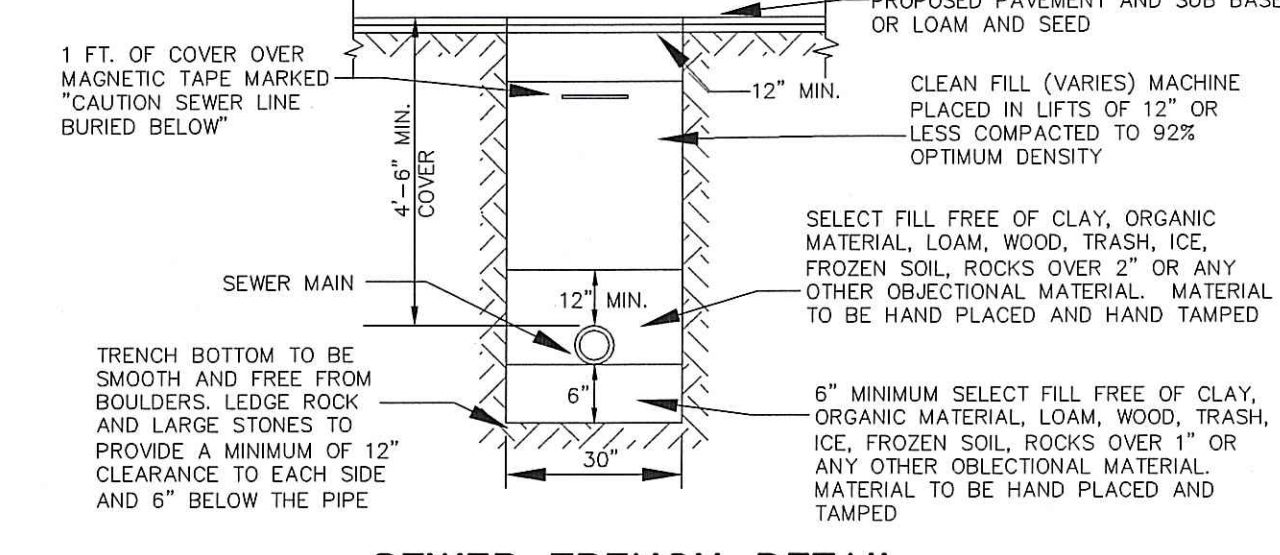
DRAINAGE TRENCH DETAIL
NOT TO SCALE



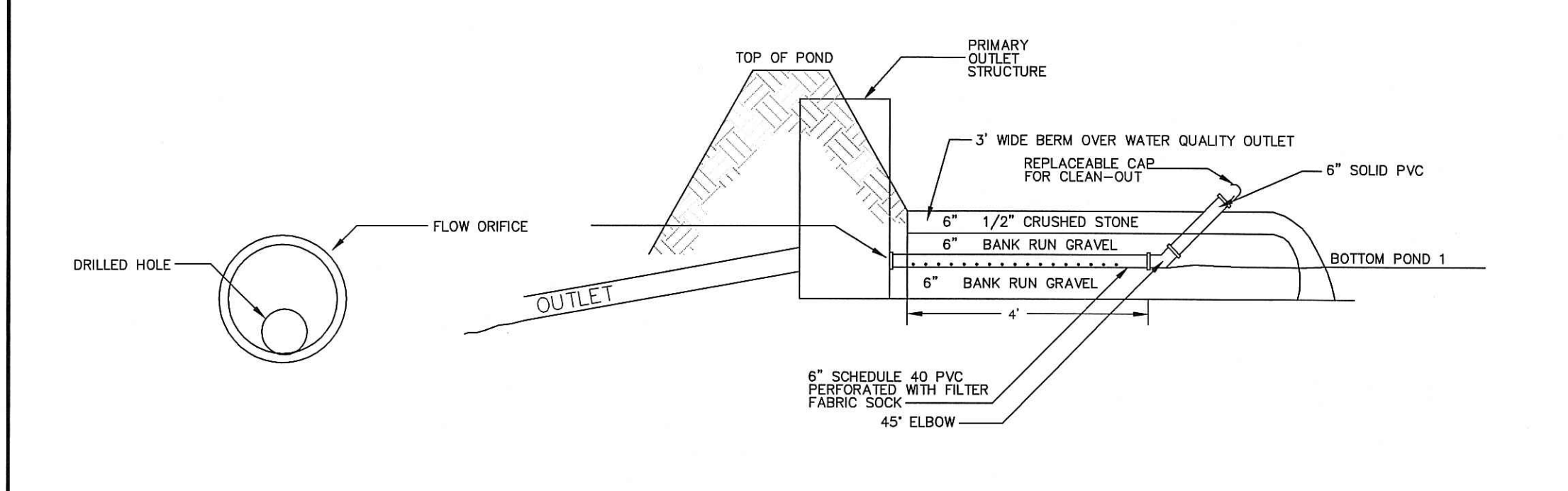
EMERGENCY SPILLWAY DETAIL
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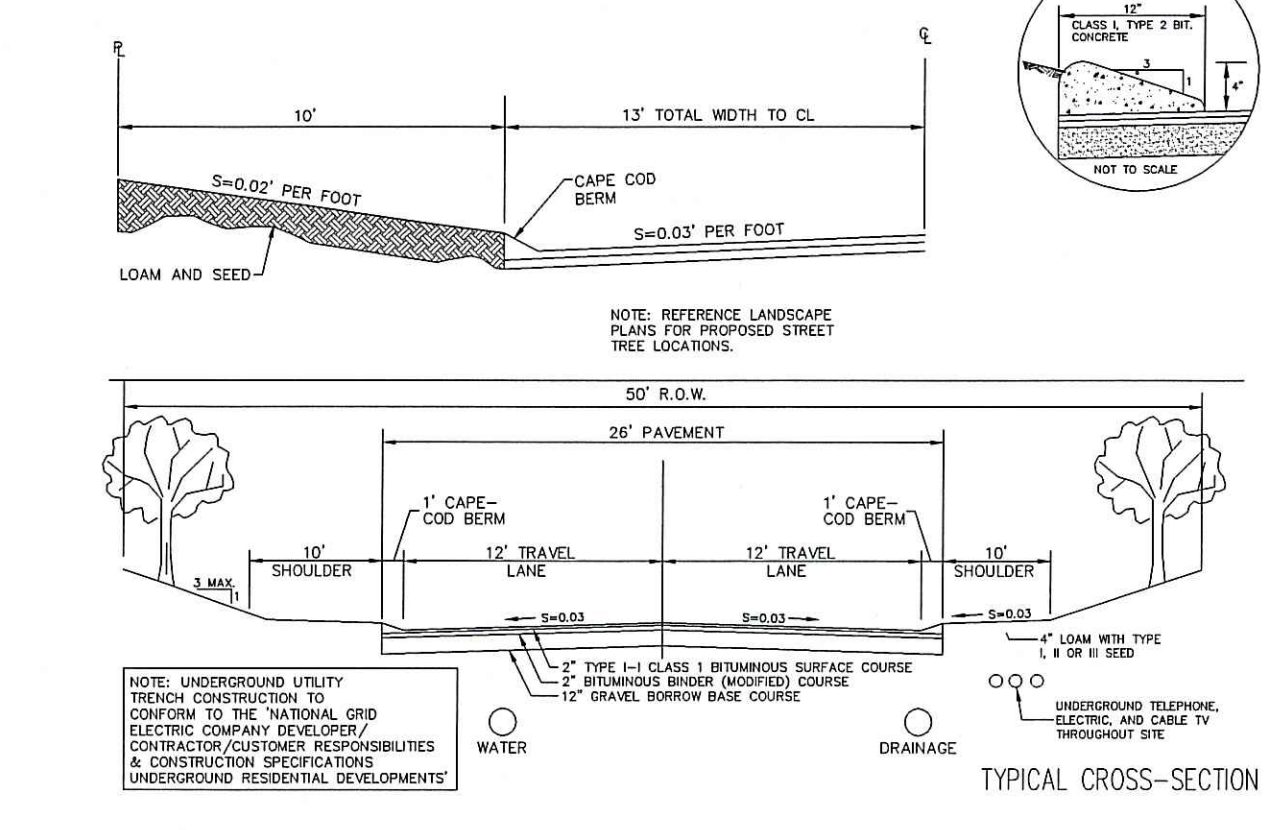
ANTI-SEEP COLLAR
NOT TO SCALE



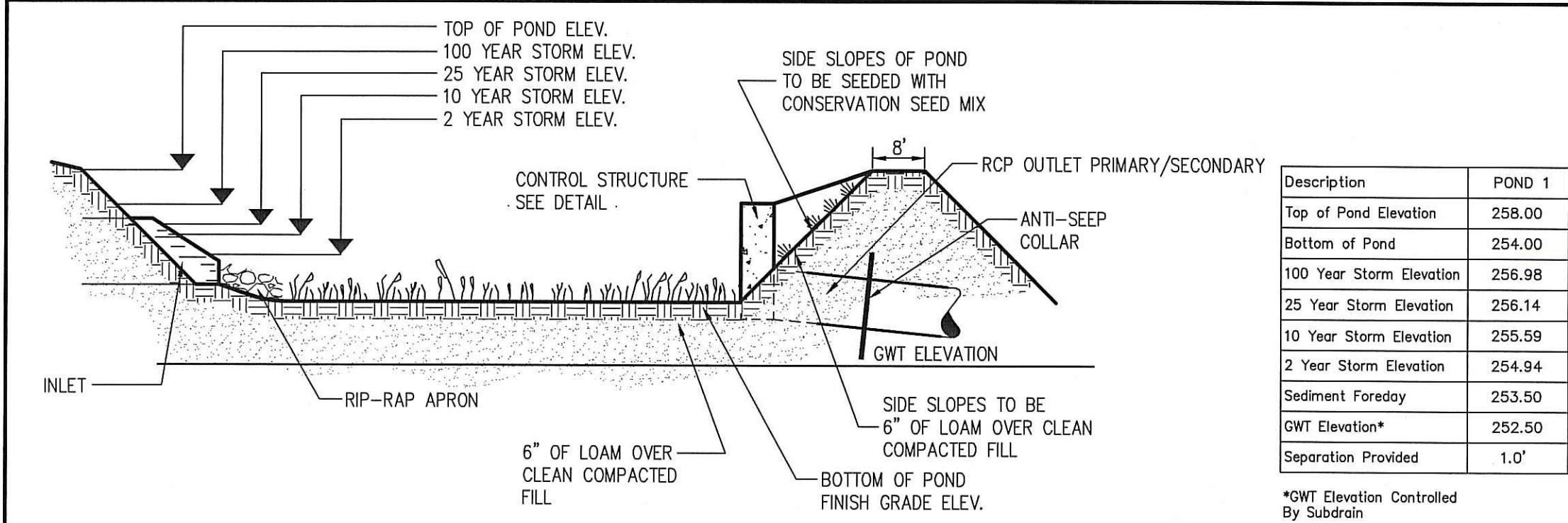
SEWER TRENCH DETAIL
NOT TO SCALE



CAP DETAIL and **WATER QUALITY OUTLET**
NOT TO SCALE



TYPICAL ROAD CONSTRUCTION CROSS SECTION
NOT TO SCALE

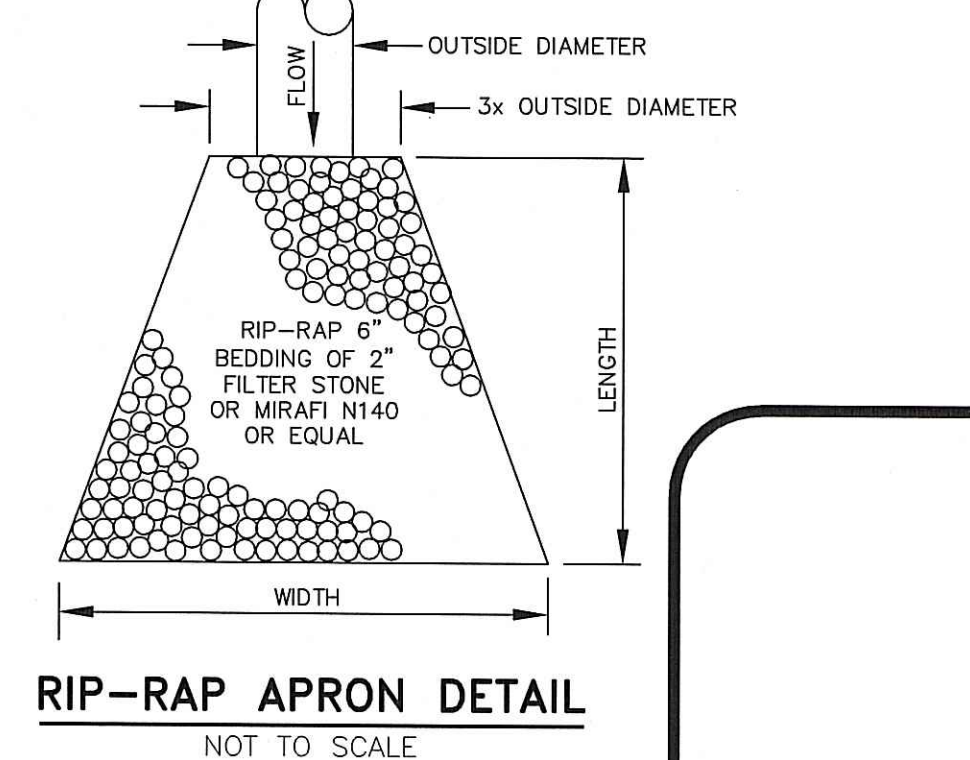


DETENTION POND & WATER QUALITY BASIN TYPICAL CROSS SECTION
NOT TO SCALE

STRUCTURAL MEASURES

- RUNOFF WATER QUALITY IS IMPROVED UTILIZING THE EXTENDED DETENTION BASIN. THE DETENTION BASIN IS DESIGNED TO PROMOTE SEDIMENT REMOVAL PRIOR TO FINAL DISCHARGE. DISCHARGE OUTLETS ARE PROTECTED WITH RIP-RAP APRONS AND/OR LEVEL SPREADERS.
- A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED IN THE BASIN IMMEDIATELY AFTER GRADING. THE SEEDING SHALL EXTEND TO AT LEAST THE FULL BERM WIDTH AT THE TOP OF THE DETENTION BASIN AND SHALL INCLUDE ANY OTHER AREAS DISTURBED BY CONSTRUCTION ACTIVITIES. ACTIVITIES SHALL BE CONFINED TO WITHIN THE LIMIT OF DISTURBANCE AS SHOWN ON THE PLANS.
- VIGOROUS VEGETATION SHALL BE MAINTAINED BY APPLYING LIME AND FERTILIZER. BARE OR ERODED AREAS SHALL BE IMMEDIATELY REPAIRED AND RESEDED BY THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND INSPECTION OF THE DETENTION AREA UP TO ACCEPTANCE OF CONSTRUCTION BY THE TOWN OF SMITHFIELD (TOWN). THE HOMEOWNERS ASSOCIATION (HA) IS RESPONSIBLE THEREAFTER. ANY UNDEVELOPED VEGETATIVE COVER IN THE BASIN WITHIN A YEAR OF THE PROJECT COMPLETION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL RESEED ANY UNSTABILIZED AREAS AFTER A FULL GROWING SEASON AT NO ADDITIONAL EXPENSE TO THE OWNER.
- THE GRASS IN THE BASINS SHALL BE ALLOWED TO GROW BETWEEN 2" - 10".
- THE PERMANENT DETENTION BASIN SHALL BE INSTALLED, COVER WITH TOPSOIL AT THE END OF CONSTRUCTION.
- THE DETENTION POND SHALL BE BUILT TO CONTROL RUNOFF FOR 2 THROUGH 100-YEAR STORM FREQUENCIES.
- THE SIDE SLOPES OF THE BASINS SHALL BE 3:1 MAXIMUM OR AS CALLED FOR ON THE PROJECT PLANS.
- ALL EMBANKMENTS OF THE BASINS SHALL BE THOROUGHLY COMPACTED UPON COMPLETION IN STRICT CONFORMANCE WITH RI STANDARD SPECIFICATION SECTION 202.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE TEMPORARY SEDIMENTATION BASINS DURING CONSTRUCTION AND THE DETENTION AREAS UP TO THE ACCEPTANCE BY THE TOWN. THE HA SHALL BE RESPONSIBLE THEREAFTER FOR MAINTAINING THE BASINS. THE HA SHALL INSPECT THE BASIN SEMIANNUALLY AND AFTER MAJOR STORMS.
- A GRADUATED GAUGE IS TO BE SET WITHIN THE POND TO MONITOR ACCUMULATED SEDIMENTS.
- RIP-RAP APRONS SHALL BE INSTALLED AT THE INLETS AND OUTLETS OF ALL CULVERTS. THE EMERGENCY SPILLWAY SHALL BE PROTECTED BY RIP-RAP UPSTREAM AND DOWNSTREAM.
- RIP-RAP PADS SHALL BE INSPECTED SEMIANNUALLY AND AFTER MAJOR STORMS. IF REPAIRS ARE NEEDED, THEY SHALL BE ACCOMPLISHED IMMEDIATELY.
- THE CONSTRUCTION SUPERINTENDENT SHALL HAVE THE OVERALL RESPONSIBILITY FOR STRUCTURAL MEASURE IMPLEMENTATION AND FOR SEEING THAT APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN.
- REFERENCE THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY USDA SOIL CONSERVATION SERVICE 1989, AS A GUIDE.

LOCATION	LENGTH	WIDTH	CLASS
POND 1 INLET	19'	24'	R-4
POND 1 OUTLET	15'	9'	R-3
CULVERT FES OUTLET	30'	18'	R-4



RIP-RAP APRON DETAIL
NOT TO SCALE

ESTABLISHMENT OF VEGETATIVE COVER

- SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
- ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED OR PROTECTED.
- THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM TO RHODE ISLAND'S STANDARD SPECIFICATION, M.20.
- THE SEEDING DESIGN MIX FOR RE-GRADING AREAS 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. LIME AND FERTILIZATION, AS REQUIRED BY SOIL TESTING TO COMPLEMENT OR UPGRADE EXISTING CONDITIONS, WILL BE USED. THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS AND BEFORE MIXING AND PLANTING.
- TEMPORARY TREATMENTS SHALL CONSIST OF HAY STRAW OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS MAT OR A FIBER LINING. SIDE SLOPES OF PONDS SHALL BE TREATED WITH NORTH AMERICAN GREEN S150 EROSION CONTROL BLANKETS 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.
- HAY BALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
- ALL FILL SHALL BE THOROUGHLY COMPACTED UPON COMPLETION IN STRICT CONFORMANCE WITH THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 202.
- STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN AND SHALL BE TEMPORARILY SEEDED AND/OR STABILIZED.
- THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION AND FOR SEEING THAT 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.
- ALL AREAS DISTURBED BY POND CONSTRUCTION SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISH GRADING. PERMANENTLY SEEDING AREAS SHALL BE PROTECTED DURING ESTABLISHMENT WITH MULCH. ALL SEEDING AREAS WILL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHALL BE FERTILIZED AND RESEDED AS NECESSARY.
- REFERENCE THE "RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK" PREPARED BY THE USDA SOIL CONSERVATION SERVICE 1989 AS A GUIDE.
- TEMPORARY HAY MULCH TO BE TACKED IN PLACE WITH NYLON MESH NETTING.
- MAXIMUM GRADED SLOPE WITHIN THE DEVELOPMENT IS TO BE UNLESS OTHERWISE NOTED.

MAINTENANCE: SHORT TERM/LONG TERM

- ALL DISTURBED SLOPES AND NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEED, PROTECTED, AND MAINTAINED BY THE CONTRACTOR FOLLOWING FINAL GRADING AND CONSTRUCTION. THE CONTRACTOR SHALL CHECK REGULARLY ALL SEEDING AREAS TO SEE THAT A GOOD STAND 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.
- ALL HAY BALES, TEMPORARY TREATMENTS (HAY, STRAW, ETC.), AND TEMPORARY PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
- 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.
- THE CONTRACTOR SHALL CHECK THE HAY BALES OR SILT FENCE ON A WEEKLY BASIS AND AFTER EACH STORM FOR UNDERMINING OR DETERIORATION. THE CONTRACTOR SHALL REPAIR OR REPLACE THE HAY BALES AS NECESSARY. THE CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE BALES BECAME FILLED IN WITH SEDIMENTS.
- THE CONTRACTOR SHALL MAINTAIN THE STONE STABILIZATION PAD AT THE SITE ENTRANCE. 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.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND INSPECTION OF THE POND DURING AND UP TO A YEAR AFTER COMPLETION OF CONSTRUCTION. MAINTENANCE SHALL INCLUDE RESEEDING ANY UNDEVELOPED AREAS AFTER A FULL GROWING SEASON AT NO ADDITIONAL EXPENSE. REMOVING ACCUMULATED SILT WHEN SEDIMENTS IN THE BASIN EXCEED 3", AND MAINTAINING THE GRASS TO A GROWING HEIGHT BETWEEN 2" - 10".
- THE CONTRACTOR SHALL INSPECT RIP RAP PADS AFTER EACH STORM AND REPAIR AS NECESSARY.
- THE CONTRACTOR SHALL MAINTAIN THE DRAINAGE SYSTEM THROUGHOUT CONSTRUCTION. THE ACCUMULATED SEDIMENTS IN THE POND SHALL BE REMOVED AND DRAINAGE PIPES FLUSHED BY THE CONTRACTOR AT THE END OF CONSTRUCTION.
- THE HOMEOWNERS ASSOCIATION (HA) IS RESPONSIBLE FOR THE LONG-TERM MAINTENANCE OF THE DETENTION POND. THE HA SHALL MAINTAIN A GOOD VEGETATIVE COVER (GRASS BETWEEN 2" - 10" OR VEGETATION AS SPECIFIED). BOTTOM OF POND SHALL BE INSPECTED ON A SEMIANNUAL BASIS AND ACCUMULATED SEDIMENTS SHALL BE REMOVED WHEN THEY EXCEED 3" DEPTH OR EVERY 10 YEARS, WHICHEVER COMES FIRST.
- THE HA SHALL CHECK THE RIP-RAP PADS AND EMERGENCY OUTLETS AFTER MAJOR STORMS AND ON AN ANNUAL BASIS. REPAIRS SHALL BE PERFORMED IMMEDIATELY AS CONDITIONS WARRANT.
- THE HA SHALL MAINTAIN THE PONDS AFTER THE FIRST YEAR. THE HA SHALL MAINTAIN A GOOD VEGETATIVE COVER (GRASS BETWEEN 2" - 10" OR VEGETATION AS SPECIFIED). BOTTOM OF POND SHALL BE INSPECTED ON A SEMIANNUAL BASIS AND ACCUMULATED SEDIMENTS SHALL BE REMOVED WHEN THEY EXCEED 3" DEPTH OR EVERY 10 YEARS, WHICHEVER COMES FIRST.
- THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR THE MAINTENANCE PROGRAM DURING THE CONSTRUCTION PHASE. THE SUPERINTENDENT SHALL SEE THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN.
- AFTER ACCEPTANCE BY THE TOWN, THE HA SHALL HAVE OVERALL RESPONSIBILITY FOR IMPLEMENTING THE MAINTENANCE PROGRAM.
- CONSTRUCTION OF DRAINAGE POND SHALL BE SUPERVISED BY A PROFESSIONAL ENGINEER. A REPORT PLAN OF AS-BUILT SHALL BE MADE AVAILABLE TO THE TOWN ENGINEER.

SEQUENCE OF CONSTRUCTION AND STAGING OF LAND DISTURBING ACTIVITIES

- SURVEY AND STAKE CENTERLINE OF THE PROPOSED ROAD, THE DRAINAGE STRUCTURES AND DETENTION POND, AND THE LIMIT OF SEDIMENTATION BARRIERS.
- 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.
- BEGIN ROUGH GRADING, ROAD AND DRAINAGE WORK (CLEARING AND GRUBBING, EXCAVATING AND GRADING, ETC.). THE MAINTENANCE SHALL INCLUDE TOP DRESSING WITH TOPSOIL TO BE STRIPPED AND STOCKPILED IN APPROVED AREAS. THE STOCKPILES ARE TO BE PROTECTED BY A ROW OF SEDIMENTATION BARRIERS AND COVERED OR TEMPORARILY SEED. DIVERT ALL THE RUNOFF FROM DISTURBED AREAS TO THE PROPOSED TEMPORARY SEDIMENTATION BASINS.
- INSTALL UTILITIES AND DRAINAGE PIPES. IMMEDIATELY PLACE THE EROSION CONTROLS AT THE DISCHARGE POINTS AND SEED THE BASIN AND DISTURBED AREAS.
- BEGIN ROAD PAVING.
- BEGIN LAYOUT OF HOUSES AND CONTINUE GRADING ALONG WITH B.7.
- BEGIN LANDSCAPING WHILE HOMES ARE UNDER CONSTRUCTION.
- FINISH HOMES AND ROAD CONSTRUCTION.
- FINISH LANDSCAPING AND PERMANENT STABILIZATION.
- REPAIR DRAINAGE OUTLETS AND PONDS AS REQUIRED. THE TREE LIMBS, LEAVES, BOULDERS, ETC. SHALL BE REMOVED FROM THE BOTTOM OF THE BASIN BEFORE THE APPLICATION OF TOPSOIL.
- REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES FOLLOWING VEGETATIVE ESTABLISHMENT OF ALL DISTURBED AREAS.
- CONSTRUCTION TO COMMENCE FALL 2007 OR UPON RECEIPT OF ALL NECESSARY APPROVALS FROM THE TOWN ENGINEER'S OFFICE OF ENVIRONMENTAL MANAGEMENT.
- NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED BY THE TOWN ENGINEER'S OFFICE OF ENVIRONMENTAL MANAGEMENT AS SPECIFIED IN THE LETTER OF APPROVAL.

DATE: JUL 17 2007 FILE # 07-0155
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED BY THE TOWN ENGINEER'S OFFICE OF ENVIRONMENTAL MANAGEMENT AS SPECIFIED IN THE LETTER OF APPROVAL.

Eric M. Prive
No. 8662
REGISTERED PROFESSIONAL ENGINEER CIVIL

Charles A. Baber
Preliminary Submission

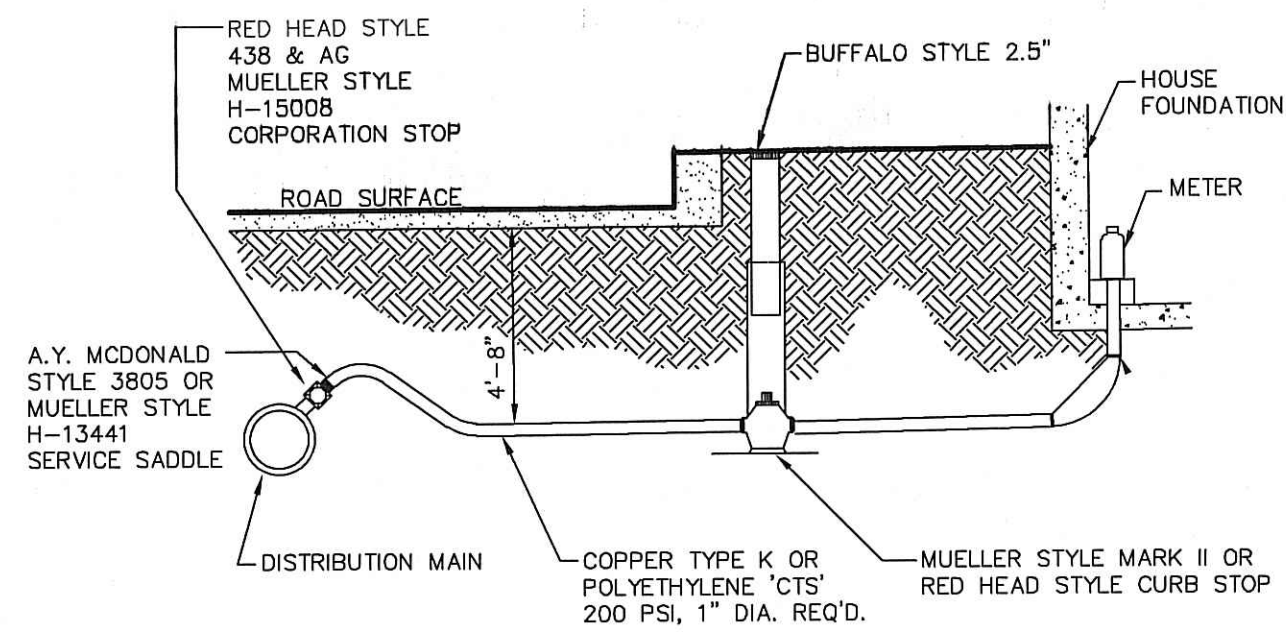
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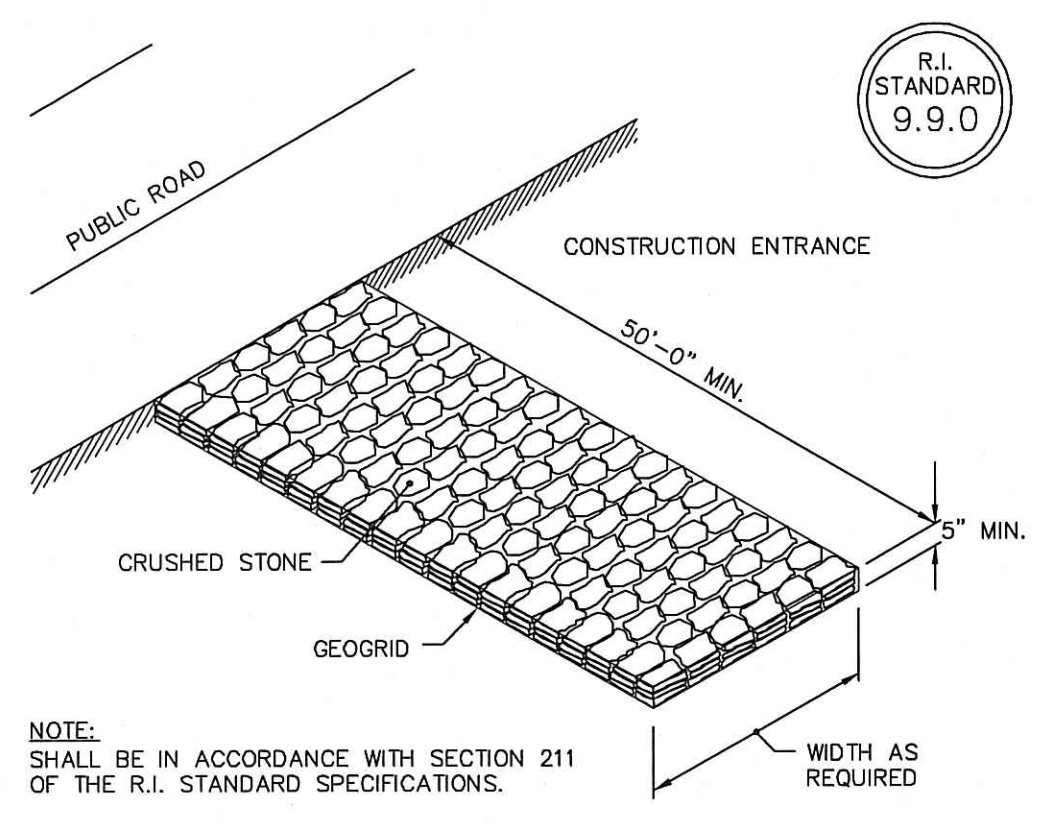
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APRIL, 2007
DWN. BY: C.R.D.

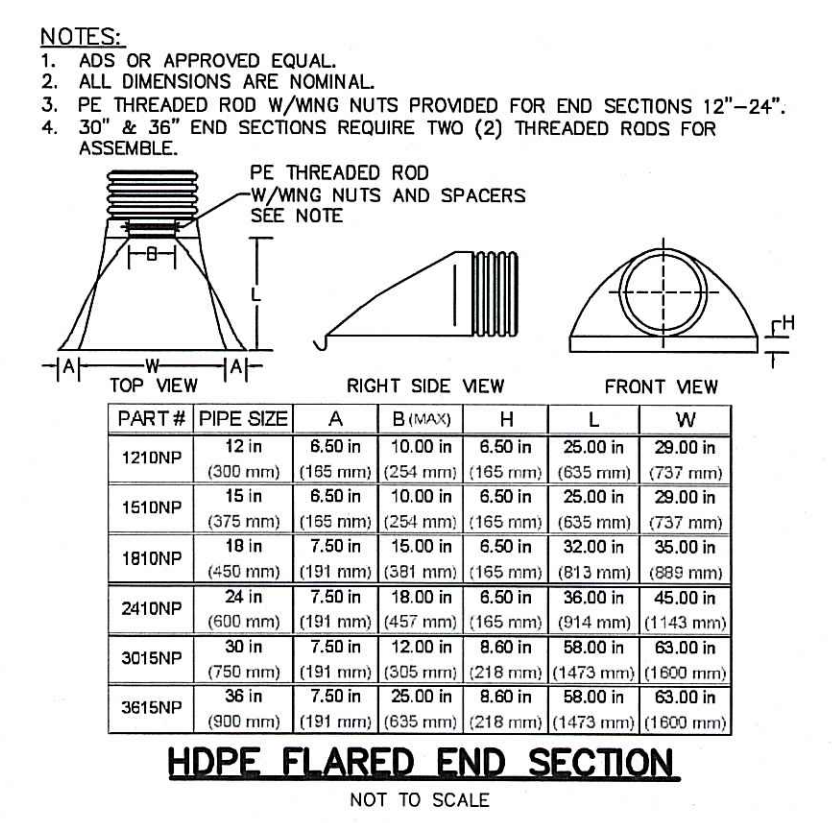
SHEET 9 OF 10



TYPICAL SERVICE INSTALLATION
NOT TO SCALE



CONSTRUCTION ACCESS
NOT TO SCALE

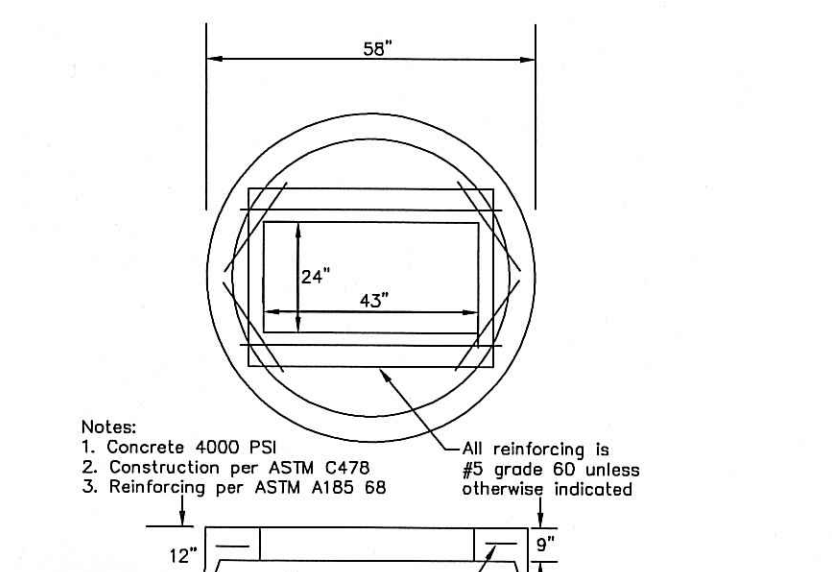


HDPE FLARED END SECTION
NOT TO SCALE

NOTES:
1. ADS OR APPROVED EQUAL.
2. ALL DIMENSIONS ARE NOMINAL.
3. PE THREADED ROD W/WING NUTS PROVIDED FOR END SECTIONS 12"-24".
4. 30" & 36" END SECTIONS REQUIRE TWO (2) THREADED RODS FOR ASSEMBLY.

PART #	PIPE SIZE	A	B (MAX)	C	H	W
1210NP	12 in	8.50 in	10.00 in	8.50 in	25.50 in	29.00 in
1510NP	15 in	8.50 in	10.00 in	8.50 in	25.50 in	29.00 in
1810NP	18 in	7.50 in	15.00 in	8.50 in	32.00 in	36.00 in
2410NP	24 in	7.50 in	18.00 in	8.50 in	36.00 in	45.00 in
3015NP	30 in	7.50 in	12.00 in	8.60 in	58.00 in	63.00 in
3615NP	36 in	7.50 in	24.00 in	8.60 in	58.00 in	63.00 in

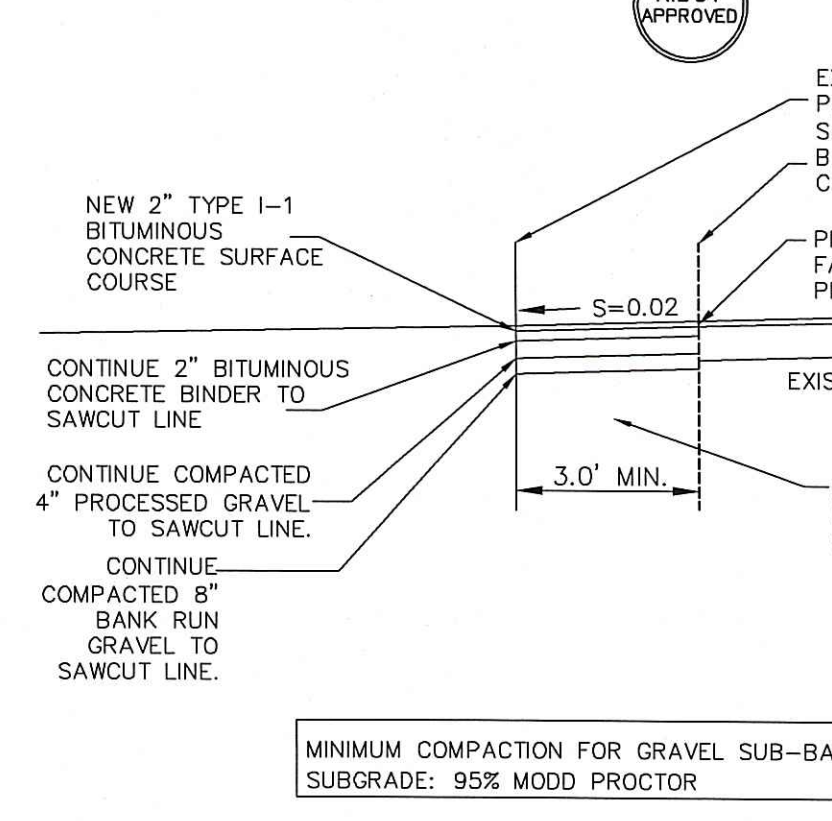
HEAVY DUTY DOUBLE FRAME & GRATE
NEENAH FOUNDRY CORP. (OR EQUAL)
N.T.S.



4' DIA. DOUBLE OPENING SLAB COVER
FIORE CONCRETE PRODUCTS (OR EQUAL)
N.T.S.

CAT. NO.	A	B	C	D	WT. (LBS)
R-4853-A	24"x45"	3"	1 1/2"x6 1/4"	1 1/4"	520

SAWCUT & MATCH PAVEMENT DETAIL
N.T.S.

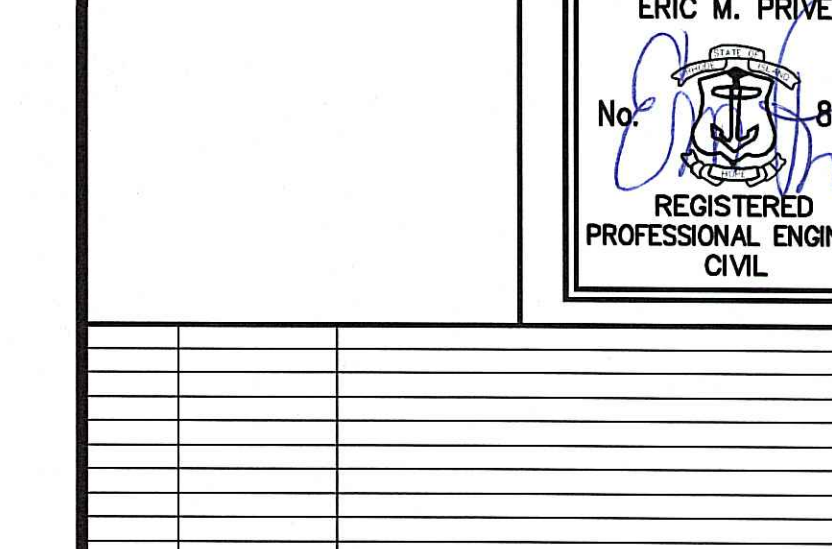


SAWCUT & MATCH PAVEMENT DETAIL
N.T.S.

THRUST BLOCK DETAILS
NOT TO SCALE

PIPE SIZE	45° BEND OR LESS	TEE & DEAD END
8"	2.5' x 2.5'	3.0' x 3.0'
12"	3.5' x 3.5'	4.0' x 4.0'

THRUST BLOCK DETAILS
NOT TO SCALE

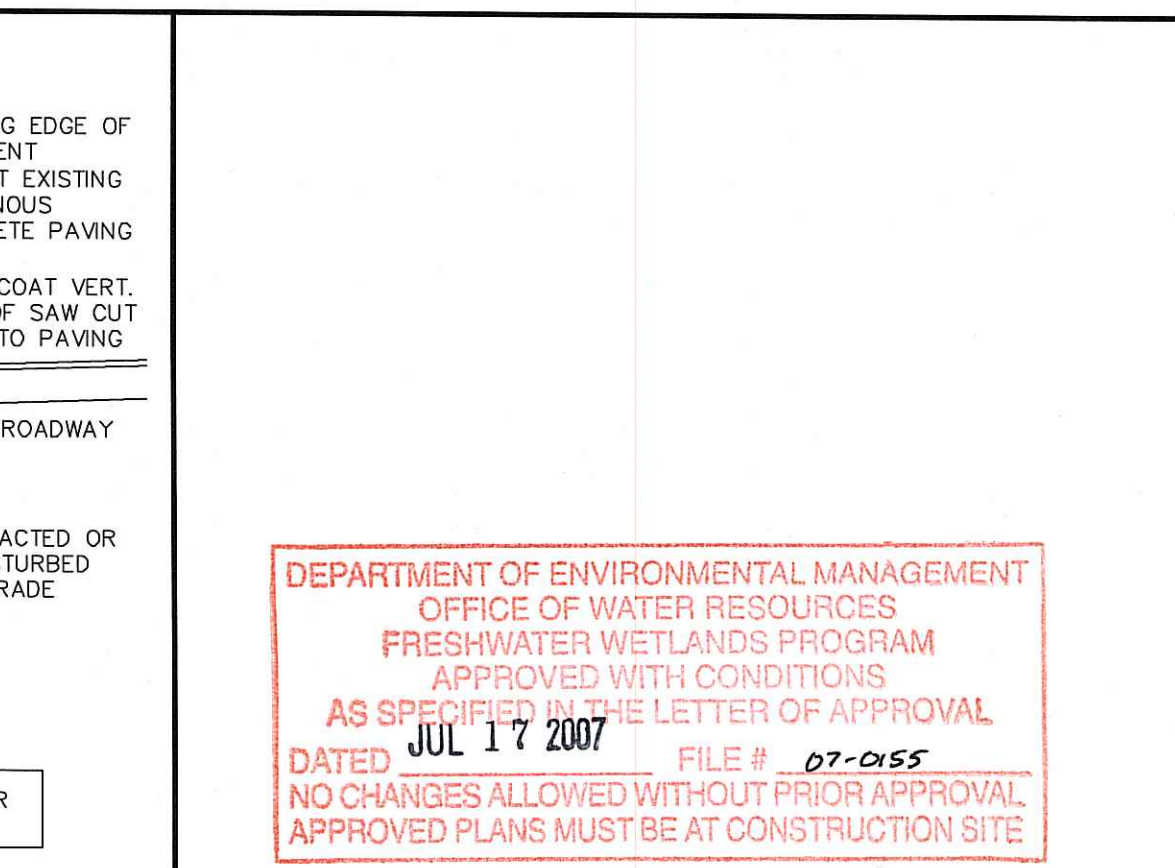


SUBDRAIN CLEANOUT DETAIL
NOT TO SCALE

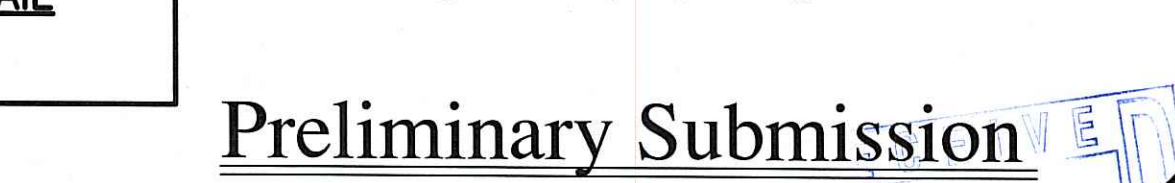
LEAKAGE AND PRESSURE TESTING FOR WATERMAINS
GENERAL
HYDROSTATIC AND LEAKAGE TESTS SHALL BE PERFORMED ON ALL COMPLETED SECTIONS OF NEWLY INSTALLED WATER MAIN PIPELINE IN ACCORDANCE WITH AWWA C600, SMITHFIELD WATER SUPPLY BOARD, THE TOWN OF SMITHFIELD, AND AS SPECIFIED BELOW.
THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL LABOR, TOOLS AND EQUIPMENT NECESSARY FOR TESTING.
2. TESTING PROCEDURES
ALL AIR SHALL BE EXPELLED AT THE HIGH POINTS AND THE PIPELINE SLOWLY FILLED WITH POTABLE WATER.
THE INTERNAL PRESSURE SHALL BE BUILT UP 1.5 TIMES MAXIMUM OPERATING PRESSURE AND MAINTAINED FOR A PERIOD OF NOT LESS THAN TWO (2) HOURS.
ALL LEAKS IN THE PIPELINE SHALL BE STOPPED, CRACKED OR DEFECTIVE PIPE FITTINGS OR ACCESSORIES SHALL BE REMOVED AND REPLACED WITH NEW BY THE CONTRACTOR.
THE PIPELINE SHALL BE RETESTED AS MAY BE REQUIRED AND NECESSARY UNTIL THE LEAKAGE FALLS WITHIN THE ALLOWABLE DETERMINED FOR THE PIPE NETWORK. A WATERMAINS "DISINFECTION STEP".
ALL PIPES SHALL BE DISINFECTED PRIOR TO BEING ACTIVATED IN ACCORDANCE WITH AWWA B-300, AWWA C-601, AND TOWN SPECIFICATIONS. CHLORINATION ACCORDING TO AWWA REQUIREMENTS FOR SERVICE AND MAIN INSTALLATION.

DETENTION POND SUBDRAIN: CONSTRUCTION, MAINTENANCE, & INSPECTION NOTES

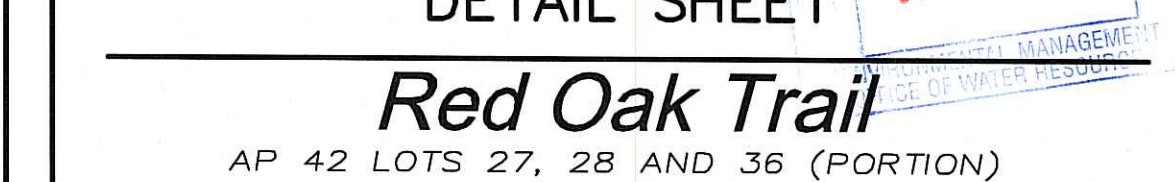
- SUBDRAIN AND AREA TO BE STAKED, MARKED, AND REMAIN UNDISTURBED PRIOR TO CONSTRUCTION. THERE IS TO BE NO CONSTRUCTION TRAFFIC ON SUBDRAIN AREA PRIOR TO CONSTRUCTION.
- STAKE CENTERLINE OF SUBDRAINS.
- EXCAVATE TRENCH. IF NECESSARY, PUMP GROUNDWATER TO DEWATERING BASIN. THE TRENCH SHALL BE A MINIMUM OF 36" IN WIDTH.
- PLACE FILTER FABRIC ALONG THE BOTTOM AND SIDES OF TRENCH AND FILL WITH 1/2" TO 2" DIAMETER WASHED FILTER STONE. THE DEPTH OF STONE BELOW THE INVERT OF THE SUBDRAIN SHALL BE A MINIMUM OF 12".
- PLACE 4" PERFORATED H.D.P.E. SUBDRAIN AT THE INVERT ELEVATION ALONG WITH CLEAN-OUTS AS INDICATED ON THE PLANS. BACKFILL SIDES AND TOP OF SUBDRAIN WITH FILTER STONE. THERE SHALL BE A MINIMUM OF 12" OF FILTER STONE ON BOTH SIDES OF THE SUBDRAIN. A MINIMUM OF 6" OF FILTER STONE SHALL COVER THE SUBDRAIN.
- OVERLAP FILTER FABRIC ON THE TOP OF THE FILTER STONE. BACKFILL WITH A MINIMUM OF 6" BANK RUN GRAVEL TO FINISH GRADE.
- MONITORING WATER LEVELS WITHIN THE CLEAN-OUTS AT VARIOUS TIME INTERVALS AFTER A RAINFALL EVENT WILL INDICATE THE EFFECTIVENESS OF THE SYSTEM. IF WATER IS STANDING IN SUBDRAIN AFTER A STORM EVENT, SYSTEM FAILURE HAS OCCURRED AND WILL REQUIRE FLUSHING MAINTENANCE, REPAIR OR REPLACEMENT OF SUBDRAIN BY THE HOMEOWNER'S ASSOCIATION.
- CONTRACTOR TO PROVIDE AS-BUILT PLANS OF THE DETENTION BASIN, SHOWING THE FIELD-LOCATED SUBDRAIN LOCATIONS, INVERTS, AND SIZES.
- IF AS-BUILT PLANS INDICATE THAT THE DETENTION BASINS AND SUBDRAINS ARE NOT INSTALLED AS SHOWN ON THE CONSTRUCTION PLANS AND DETAILS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONSTRUCTING SUBDRAINS ACCORDING TO DESIGN PLANS.
- THE DETENTION BASIN SHOULD DRAIN AS DESIGNED. STANDING WATER SHOULD NOT BE PRESENT IN THE BASIN 72 HOURS AFTER A RAINFALL EVENT SHALL BE SUPERVISED BY A PROFESSIONAL ENGINEER. IF STANDING WATER DOES NOT DRAIN WITHIN 72 HOURS, THE BASIN SHALL BE CONSIDERED DEFICIENT AND SHALL BE REPAIRED IMMEDIATELY BY THE HOME OWNERS ASSOCIATION AND A REPORT SHALL BE MADE AVAILABLE TO THE TOWN ENGINEER.
- CONSTRUCTION OF SUB-DRAINS SHALL BE SUPERVISED BY A PROFESSIONAL ENGINEER. A REPORT AND PLAN OF AS-BUILT CONSTRUCTION SHALL BE MADE AVAILABLE TO THE TOWN ENGINEER.



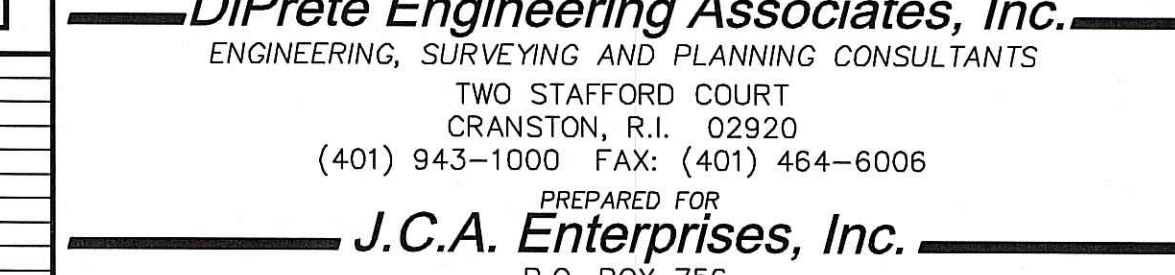
WATER TRENCH DETAIL
NOT TO SCALE



WATER TRENCH DETAIL
NOT TO SCALE



SUBDRAIN TRENCH (TYPICAL)
NOT TO SCALE



2' WATER QUALITY BERM 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 17 2007 FILE # 07-055
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Charles A. Haber
Preliminary Submission

DETAIL SHEET
Red Oak Trail
AP 42 LOTS 27, 28 AND 36 (PORTION)
SMITHFIELD, 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
J.C.A. Enterprises, Inc.
P.O. BOX 756
CHEPACHET, RI 02814
(401) 568-5801
APRIL, 2007
DWN. BY: C.R.D.
SHEET 10 OF 10

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