

# NEW ADDITION FOR ST. ELIZABETH MANOR

1 Dawn Hill Road  
A.P. 108 / Lot 28  
BRISTOL, RHODE ISLAND

PREPARED FOR:  
**St. Elizabeth Acquisition Corp.**  
1 DAWN HILL ROAD  
BRISTOL, RI

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED JUN 20 2014 FILE # 14-0092  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Matthew D. Wene*

**OWNER:**  
St. Elizabeth Acquisition Corp.  
1 Dawn Hill Road  
Bristol, RI

**CIVIL ENGINEER:**



**PARE CORPORATION**  
ENGINEERS - SCIENTISTS - PLANNERS  
8 BLACKSTONE VALLEY PLACE  
LINCOLN, RI 02865  
401-334-4100

**LANDSCAPE/ ARCHITECT**

Levi Wong Design Associates, Inc.  
45 Walden Street  
Concord, MA 01742  
(978) 371-1945

**ELECTRICAL ENGINEER:**

Creative Environment Corp.  
50 Office Parkway  
East Providence, RI 02914  
(401) 438-7733

**LAND SURVEYOR**

National Surveyors-Developers, Inc.  
42 Hamlet Avenue  
Woonsocket, RI 02895  
(401) 946-0533

**CONTRACTOR**

Cutler Associates, Inc.  
43 Harvard Street  
Worcester, MA 01609  
(508) 767-2919



SCALE: N.T.S.

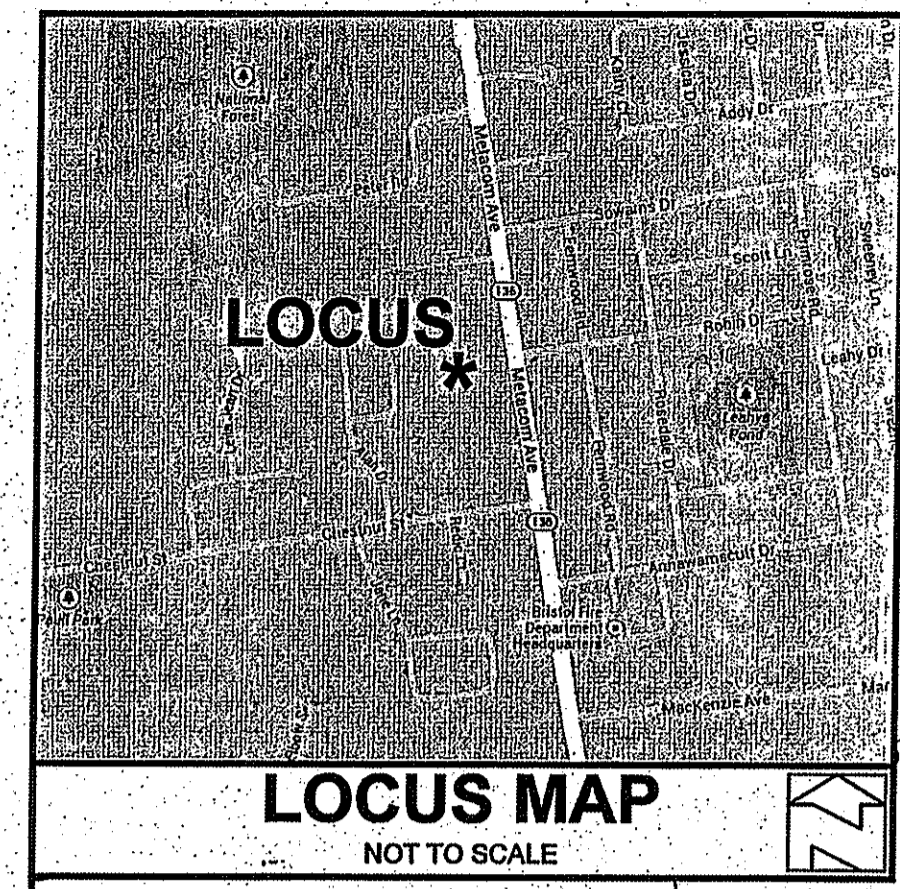
**RIDEM PRELIMINARY DETERMINATION SUBMISSION**  
**MARCH 3, 2014**  
**REVISED MAY 2, 2014**

**INDEX OF DRAWINGS**

SHEET No.	DRAWING No.	DESCRIPTION
-	-	COVER SHEET
1	-	EXISTING CONDITIONS PLAN
2	C1.1	NOTES & LEGEND
3	C1.2	VICINITY & RADIUS MAP
4-5	C2.1-C2.2	DEMOLITION, EROSION & SEDIMENT CONTROL PLANS
6-7	C3.1-C3.2	GENERAL PLANS
8-9	C4.1-C4.2	GRADING PLANS
10-11	C5.1-C5.2	DRAINAGE & UTILITY PLANS
12-16	C6.1-C6.5	DETAILS 1 - 5
17-18	L-1 - L-2	LANDSCAPE PLANS
19	ES.1	LIGHTING PLAN

Environmental Management  
MAY 2 2014  
Office of Water Resources

NO.	DATE	DESCRIPTION	BY



**LEGEND**  
NOT TO SCALE

---	BOUNDARY
---	ABUTTER
---	MAJOR CONTOUR
---	MINOR CONTOUR
---	STONEWALL
---	TREELINE
---	WETLANDS EDGE
---	50' PERIMETER WETLAND
---	100' RIVERBANK WETLAND
---	STEAM
G---	GAS LINE
SD---	DRAINAGE LINE
S---	SEWER LINE
W---	WATER LINE
○	IRON PIN OR REBAR
□	BOUND
○	DRILL HOLE
○	WELL
○	UTILITY POLE
○	WATER VALVE
○	GAS VALVE
○	HYDRANT
○	BOLLARD
○	IRRIGATION CONTROL BOX
○	SPOT GRADES

**GENERAL NOTES:**

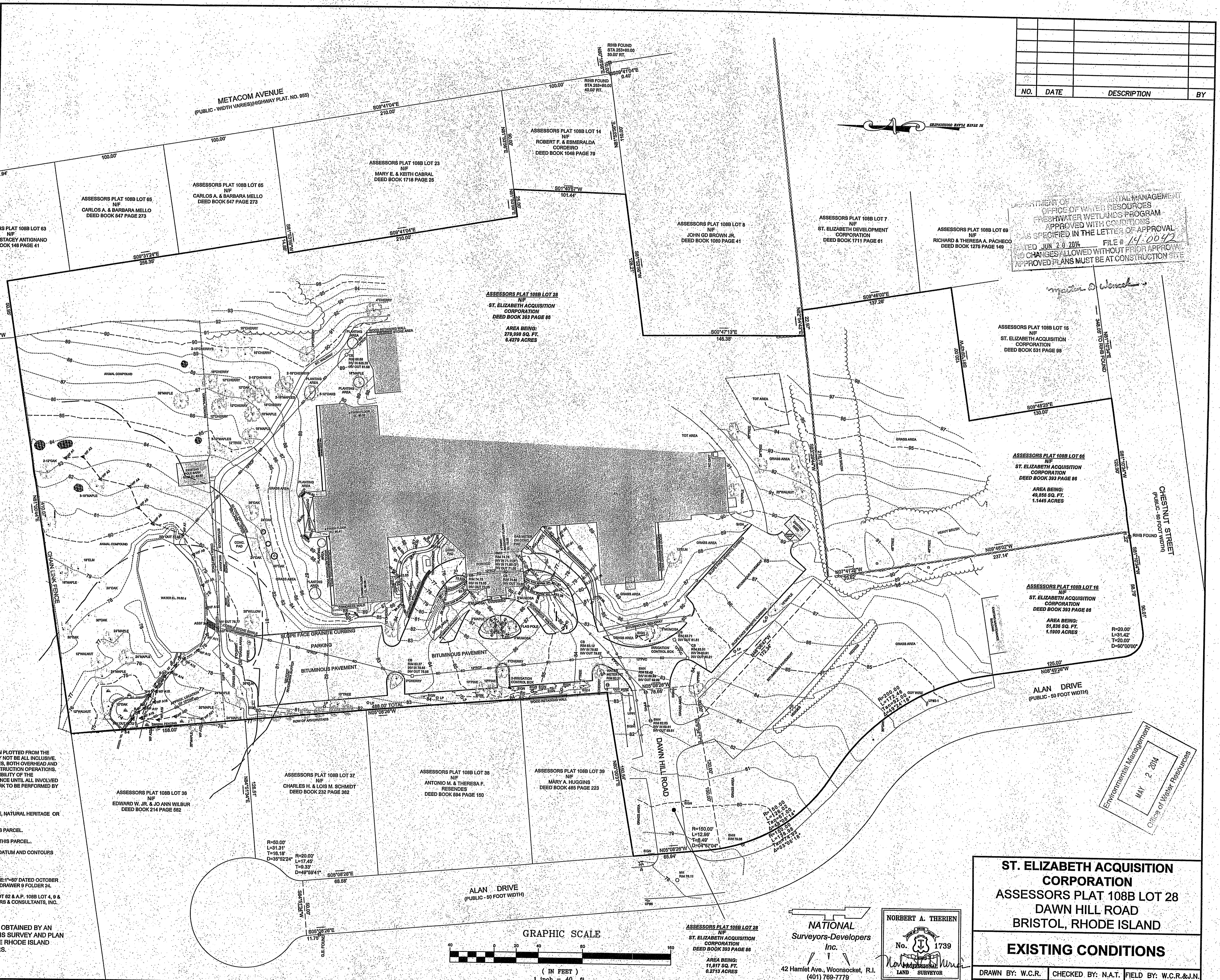
1. THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "DIG-SAFE" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR TOWN WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCE.
2. WETLANDS SHOWN HEREIN WERE DELINEATED BY PARR ENGINEERING CORP.
3. THIS SITE DOES NOT LIE WITHIN ANY KNOWN AGRICULTURAL USE, SILVICULTURAL USE, NATURAL HERITAGE OR FARMLAND CONSERVATION AREAS.
4. THERE ARE NO KNOWN EASEMENTS OR RIGHTS OF WAY WITHIN OR ADJACENT TO THIS PARCEL.
5. THERE ARE NO KNOWN HISTORIC CEMETERIES WITHIN OR IMMEDIATELY ADJACENT TO THIS PARCEL.
6. HORIZONTAL DATUM IS BASED ON RHODE ISLAND STATE PLANE COORDINATES NAD 83 DATUM AND CONTOURS BASED ON NAVD 88 DATUM.

**REFERENCES:**

1. RECORDED PLAN ENTITLED "SECTION C CHESTNUT HILL BRISTOL RHODE ISLAND SCALE: 1"=60' DATED OCTOBER 1974" BY J.A. MURCO ASSOCIATES, INC. AND RECORDED IN THE REGISTRY OF DEEDS IN DRAWER 9 FOLDER 24.
2. RECORDED PLAN ENTITLED "PLAN OF LAND ADMINISTRATIVE SUBDIVISION A.P. 108B LOT 62 & A.P. 108B LOT 4, 9 & 85 METACOM AVENUE & PETER ROAD BRISTOL RHODE ISLAND" BY NORTHEAST ENGINEERS & CONSULTANTS, INC. AND RECORDED IN THE REGISTRY OF DEEDS IN PLAT ENVELOPE 570.

"I CERTIFY THAT THE INFORMATION SHOWN HEREON HAS BEEN OBTAINED BY AN ACTUAL SURVEY ON THE GROUND, THAT IT IS CORRECT AND THIS SURVEY AND PLAN CONFORM TO A CLASS 1 SURVEY STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

BY: *Norbert A. Therien*  
NORBERT A. THERIEN P.L.S.

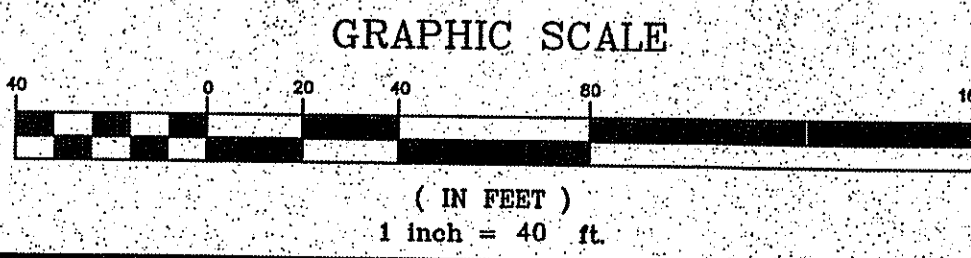


DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED JUN 28 2014 FILE # 14-0042  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
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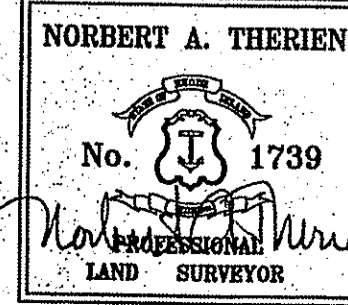
**ST. ELIZABETH ACQUISITION CORPORATION**  
ASSESSORS PLAT 108B LOT 28  
DAWN HILL ROAD  
BRISTOL, RHODE ISLAND

**EXISTING CONDITIONS**

DRAWN BY: W.C.R. CHECKED BY: N.A.T. FIELD BY: W.C.R. & J.N.  
AUGUST 2013 JOB No. 2013-180 SHEET 1 OF 1



**NATIONAL**  
Surveyors-Developers  
Inc.  
42 Hamlet Ave., Woonsocket, R.I.  
(401) 769-7779

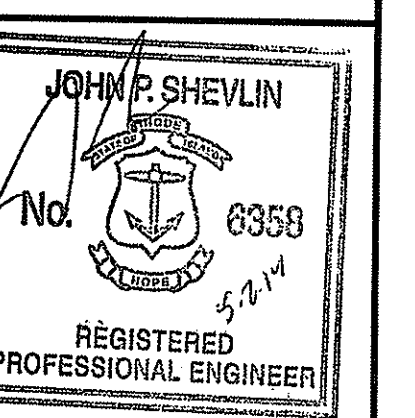


ASSESSORS PLAT 108B LOT 28  
NF  
ST. ELIZABETH ACQUISITION CORPORATION  
DEED BOOK 393 PAGE 86  
AREA BEING:  
11,817 SQ. FT.  
0.2713 ACRES

Environmental Management  
MAY 2 2014  
Office of Water Resources



**NEW ADDITION FOR  
 ST. ELIZABETH MANOR**  
 A.P. 108 / LOT 28  
 1 Dawn Hill Road  
 Bristol, Rhode Island



REVISIONS:

NO.	DATE	DESCRIPTION
1	5/2/2014	DEM COMMENTS

PROJECT NO.: 13109.00  
 DATE: MARCH 3, 2014  
 SCALE: 1"=100'  
 DESIGNED BY: RJS  
 CHECKED BY: DLP  
 DRAWN BY: AKL  
 APPROVED BY: JPS  
 DRAWING TITLE:

VICINITY &  
 RADIUS MAP

DRAWING NO.:  
**C1.2**

SHEET NO. 3 OF 19

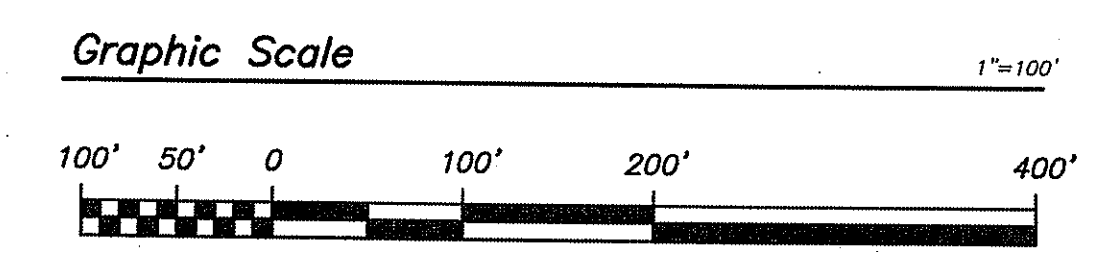
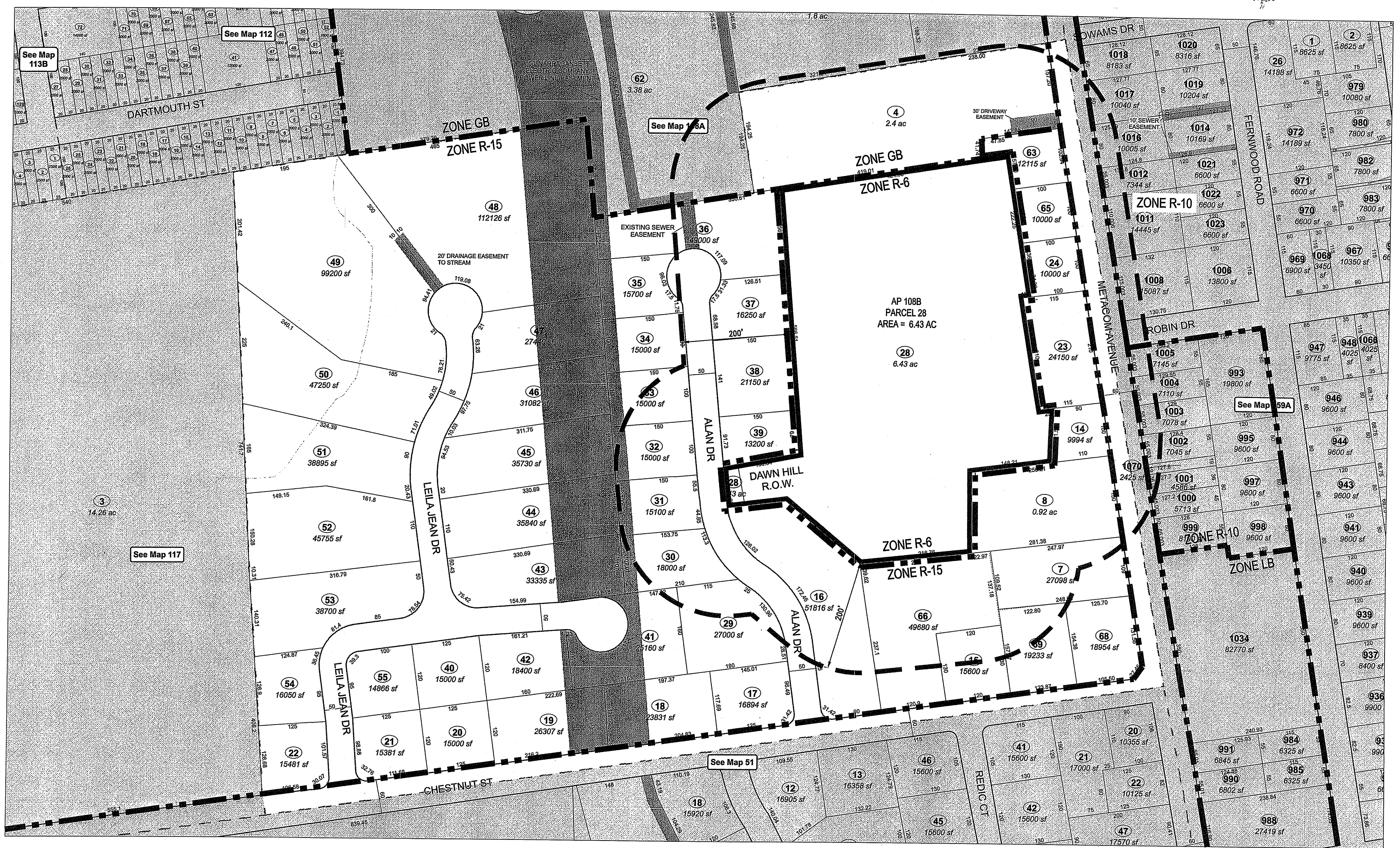
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
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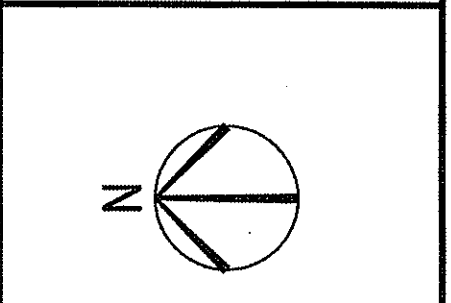
*Matthew D. Wondol*



**LEGEND**

- - - - - 200-FOOT RADIUS LIMIT
- - - - - EXISTING ZONE CLASSIFICATION LIMIT
- PROPERTY LINE





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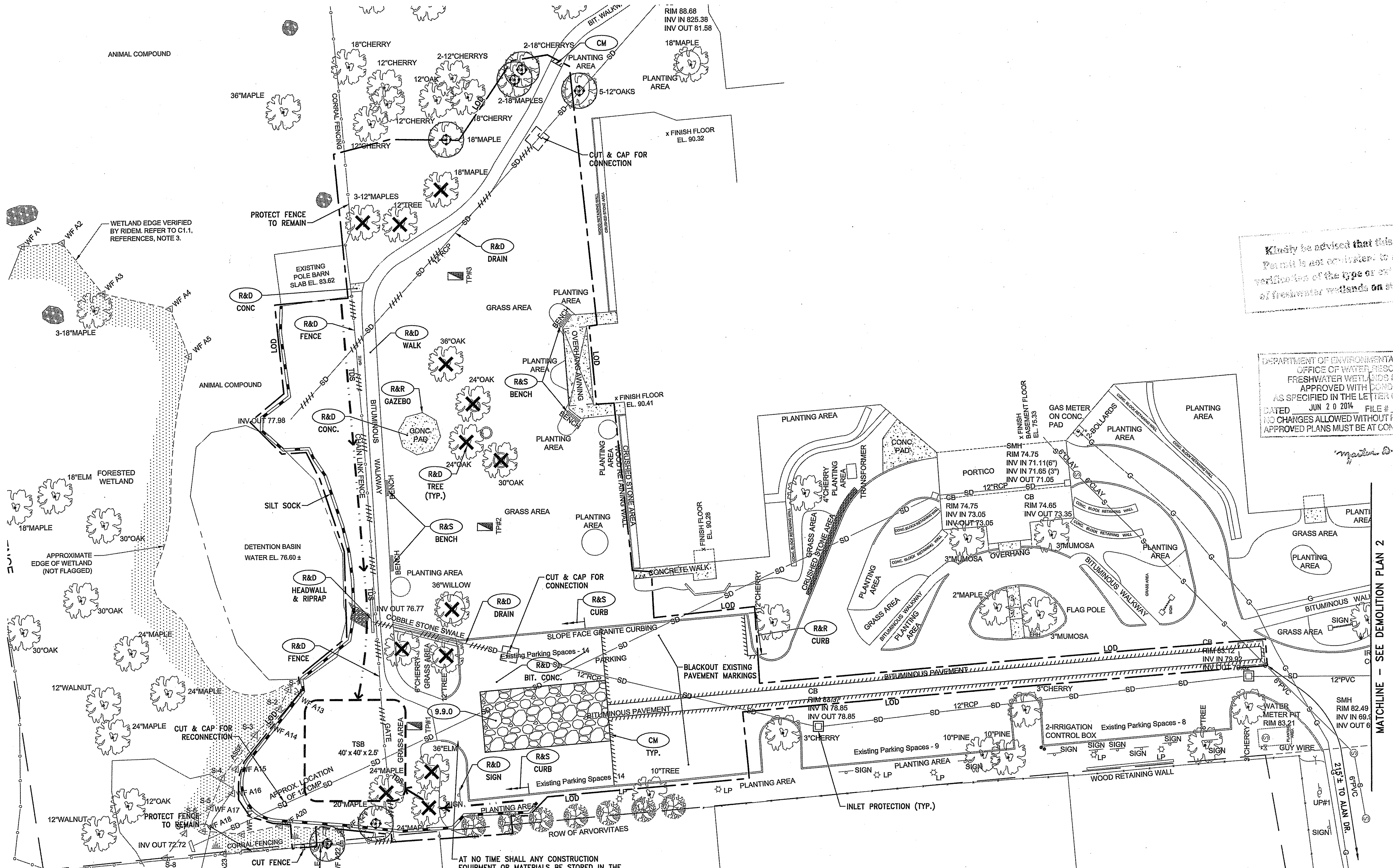
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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**JOHN B SHEVLIN**  
 No. 6358  
 REGISTERED  
 PROFESSIONAL ENGINEER

REVISIONS	DATE	DEM COMMENTS
1	5/2/2014	

PROJECT NO.: 13109.00  
 DATE: MARCH 3, 2014  
 SCALE: 1"=20'  
 DESIGNED BY: RJS  
 CHECKED BY: DLP  
 DRAWN BY: AKL  
 APPROVED BY: JPS  
 DRAWING TITLE:

DEMOLITION,  
 EROSION & SEDIMENT  
 CONTROL PLAN 1  
 DRAWING NO.:  
**C2.1**  
 SHEET NO. 4 OF 19



CONTRACTOR SHALL REMOVE FENCE AND FENCE POSTS. CONTRACTOR SHALL EXERCISE CAUTION TO MINIMIZE DISTURBANCE TO WETLAND. ALL WORK WITHIN THE WETLAND SHALL BE COMPLETED WITH HAND TOOLS. NO MACHINERY OR VEHICLES MAY ENTER THE WETLAND. FILL VOIDS FROM REMOVED FENCE POST WITH COMMON BORROW TO WITHIN 4" OF EXISTING GRADE. FILL UPPER 4" OF VOID WITH SCREENED LOAM AND PLACE WETLAND SEED MIX.

AT NO TIME SHALL ANY CONSTRUCTION EQUIPMENT OR MATERIALS BE STORED IN THE BIORETENTION AREA FOOTPRINT. AVOID USE OF HEAVY MACHINERY WITHIN FOOTPRINT TO MINIMIZE POTENTIAL FOR COMPACTION OF EXISTING SOILS.

**NOTES:**

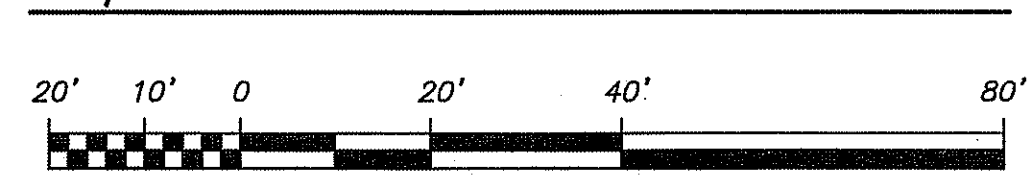
1. THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE PLANS ARE INTENDED TO REPRESENT THE MINIMUM CONTROLS NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
2. CONTRACTOR SHALL PLACE SILT SACKS IN ALL EXISTING AND PROPOSED CATCH BASINS UNTIL THE SITE IS STABILIZED.
3. CONTRACTOR SHALL INSTALL AND MAINTAIN CONSTRUCTION ENTRANCES AT ALL POINTS OF EGRESS FROM THE SITE THROUGHOUT CONSTRUCTION.
4. RUNOFF SHALL BE DIRECTED AWAY FROM PROPOSED TREE BOX FILTER AND BIORETENTION AREA VIA TEMPORARY DIVERSIONS UNTIL THE UPSTREAM AREAS ARE STABILIZED. TEMPORARY DIVERSIONS SHALL BE REMOVED AND RUNOFF SHALL BE DIRECTED TO THE PROPOSED BMP'S.

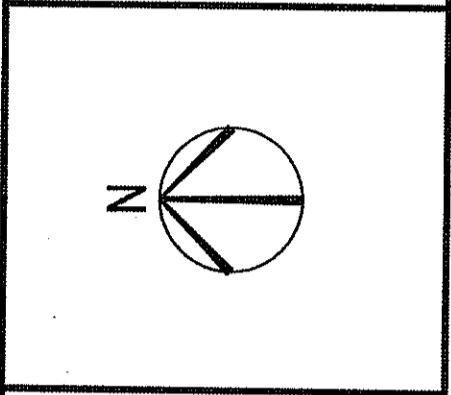
**LEGEND**

- REMOVE & DISPOSE TREE. DISPOSE OF TREE AND STUMP OFF-SITE.
- PROTECT EXISTING TREE TO REMAIN PROVIDE DRIPLINE TREE PROTECTION (R.I. STD. 51.1.1)
- TEMPORARY DIVERSION SWALE
- TEMPORARY SEDIMENTATION BASIN
- LIMIT OF DISTURBANCE
- SILT SOCK

ASSESSORS PLAT 108B LOT 39

**Graphic Scale**

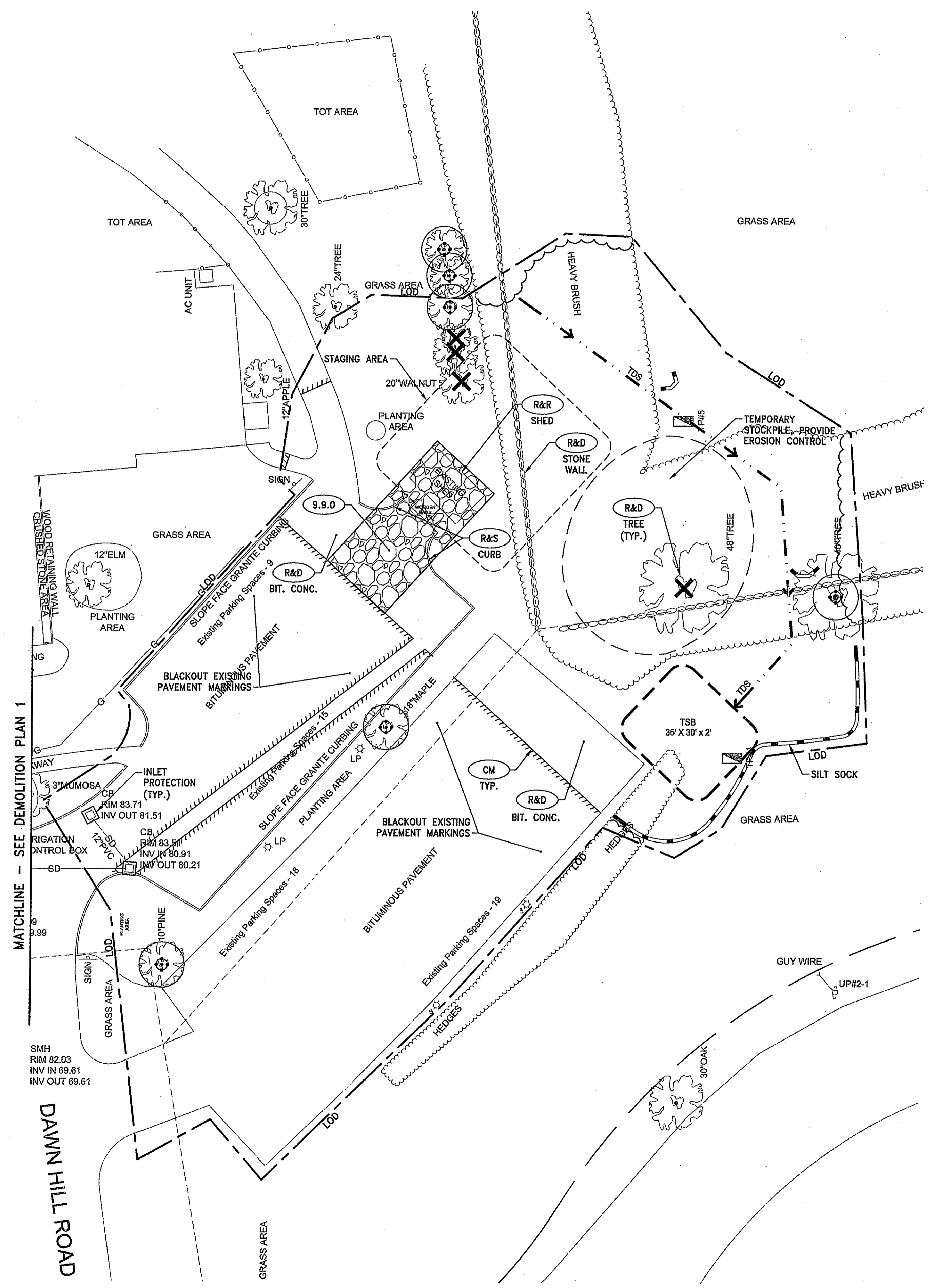




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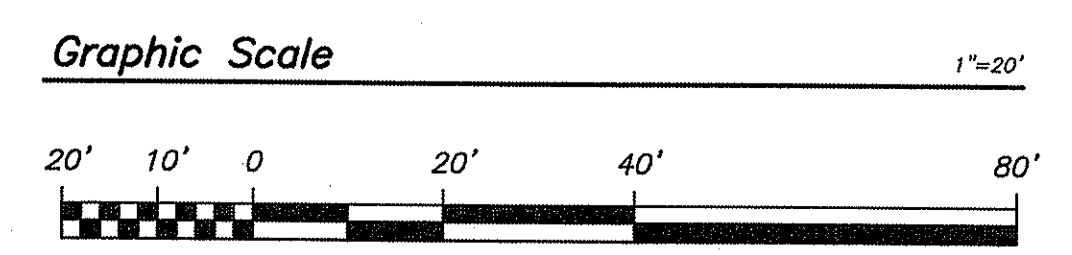
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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*Master D. Wenech*



- LEGEND**
- REMOVE & DISPOSE TREE. DISPOSE OF TREE AND STUMP OFF-SITE.
  - PROTECT EXISTING TREE TO REMAIN PROVIDE DRIPLINE TREE PROTECTION (R.I. STD. 51.1.1)
  - TDS TEMPORARY DIVERSION SWALE
  - TSB TEMPORARY SEDIMENTATION BASIN
  - LOD LIMIT OF DISTURBANCE
  - SILT SOCK

- NOTES:**
- THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE PLANS ARE INTENDED TO REPRESENT THE MINIMUM CONTROLS NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
  - CONTRACTOR SHALL PLACE SILT SOCKS IN ALL EXISTING AND PROPOSED CATCH BASINS UNTIL THE SITE IS STABILIZED.
  - CONTRACTOR SHALL INSTALL AND MAINTAIN CONSTRUCTION ENTRANCES AT ALL POINTS OF EGRESS FROM THE SITE THROUGHOUT CONSTRUCTION.
  - RUNOFF SHALL BE DIRECTED AWAY FROM PROPOSED TREE BOX FILTER AND BIORETENTION AREA VIA TEMPORARY DIVERSIONS UNTIL THE UPSTREAM AREAS ARE STABILIZED. ONCE UPSTREAM AREAS ARE STABILIZED, TEMPORARY DIVERSIONS SHALL BE REMOVED AND RUNOFF SHALL BE DIRECTED TO THE PROPOSED BMP'S.



**JOHN P. SHEVLIN**  
 No. 6358  
 REGISTERED PROFESSIONAL ENGINEER

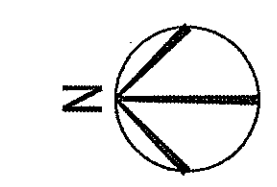
**REVISIONS:**

NO.	DATE	DEM COMMENTS
1	5/2/2014	DEM COMMENTS

PROJECT NO.: 13109.00  
 DATE: MARCH 3, 2014  
 SCALE: 1"=20'  
 DESIGNED BY: RJS  
 CHECKED BY: DLP  
 DRAWN BY: AKL  
 APPROVED BY: JPS  
 DRAWING TITLE:

DEMOLITION, EROSION & SEDIMENT CONTROL PLAN 2

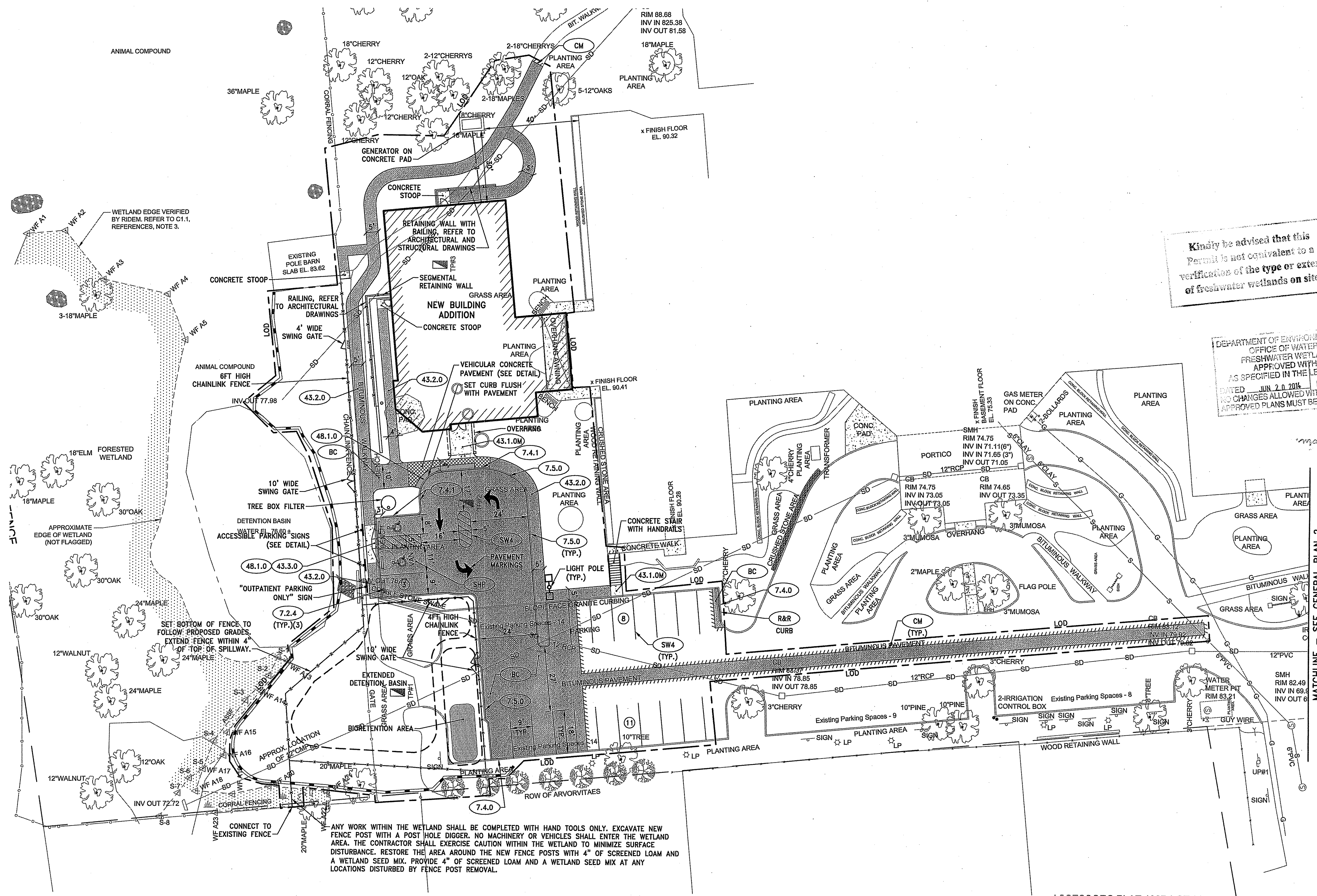
OWNER / APPLICANT:  
 St. Elizabeth Acquisition Corp.  
 1 Dawn Hill Road  
 Bristol, RI



**NEW ADDITION FOR  
 ST. ELIZABETH MANOR**  
 A.P. 108 / LOT 28  
 1 Dawn Hill Road  
 Bristol, Rhode Island

Kindly be advised that this  
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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ANY WORK WITHIN THE WETLAND SHALL BE COMPLETED WITH HAND TOOLS ONLY. EXCAVATE NEW FENCE POST WITH A POST HOLE DIGGER. NO MACHINERY OR VEHICLES SHALL ENTER THE WETLAND AREA. THE CONTRACTOR SHALL EXERCISE CAUTION WITHIN THE WETLAND TO MINIMIZE SURFACE DISTURBANCE. RESTORE THE AREA AROUND THE NEW FENCE POSTS WITH 4" OF SCREENED LOAM AND A WETLAND SEED MIX. PROVIDE 4" OF SCREENED LOAM AND A WETLAND SEED MIX AT ANY LOCATIONS DISTURBED BY FENCE POST REMOVAL.

**LEGEND**  
 # NO. OF PARKING SPACES IN PROPOSED CONDITION

**NOTES**  
 1. LOAM AND SEED ALL DISTURBED AREAS.



**JOHN P. SHEVLIN**  
 No. 6358  
 REGISTERED PROFESSIONAL ENGINEER

**REVISIONS:**

NO.	DATE	DESCRIPTION
1	5/2/2014	DEVELOPMENT
		EMPLOYMENT
		MAY 2 2014
		OFFICE OF WATER RESOURCES

PROJECT NO.: 13109.00  
 DATE: MARCH 3, 2014  
 SCALE: 1"=20'  
 DESIGNED BY: RJS  
 CHECKED BY: DLP  
 DRAWN BY: AKL  
 APPROVED BY: JPS  
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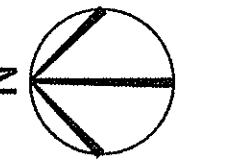
GENERAL PLAN 1

DRAWING NO.: C3.1  
 SHEET NO. 6 OF 19



**PARE CORPORATION**  
 ENGINEERS - SCIENTISTS - PLANNERS  
 8 BLACKSTONE VALLEY PLACE  
 LINCOLN, RI 02865  
 401-334-1100

**OWNER / APPLICANT:**  
 St. Elizabeth Acquisition Corp.  
 1 Dawn Hill Road  
 Bristol, RI

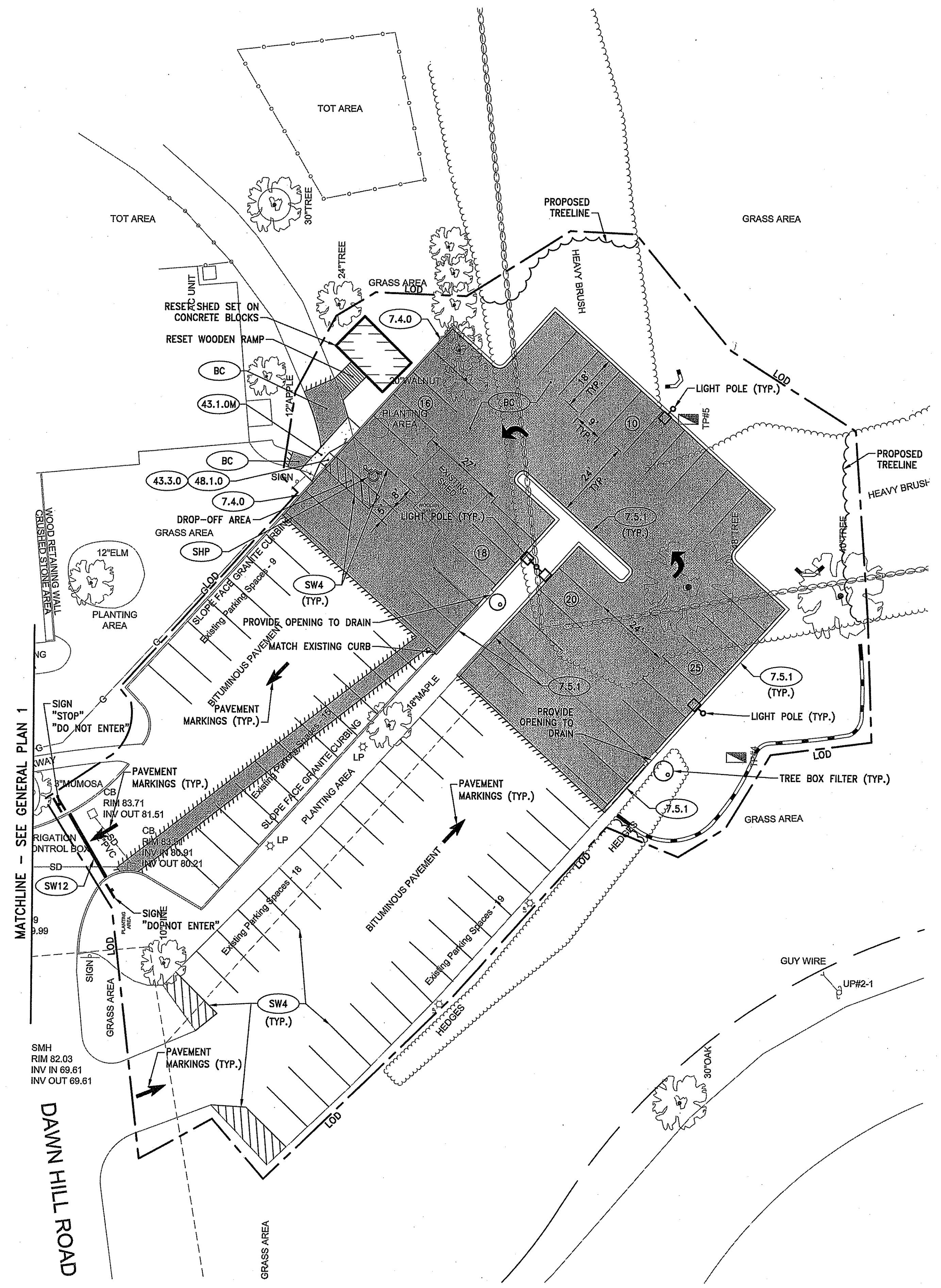


# NEW ADDITION FOR ST. ELIZABETH MANOR

AP. 108 / LOT 28  
 1 Dawn Hill Road  
 Bristol, Rhode Island

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
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*Signature*



MATCHLINE - SEE GENERAL PLAN 1

DAWN HILL ROAD

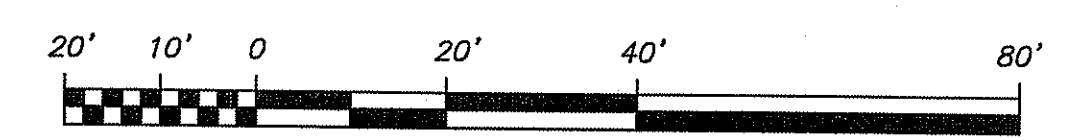
**LEGEND**

② NO. OF PARKING SPACES

**NOTES**

1. LOAM AND SEED ALL DISTURBED AREAS.

Graphic Scale



**JOHN P. SHEVLIN**  
 No. 6358  
 REGISTERED  
 PROFESSIONAL ENGINEER

**REVISIONS:**

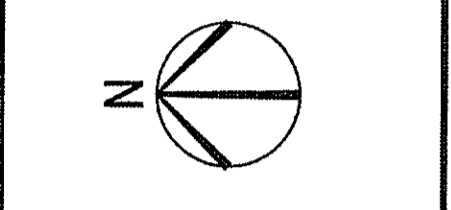
NO.	DATE	DESCRIPTION
1	5/2/2014	DEM COMMENTS
	May 2, 2014	

PROJECT NO.: 13109.00  
 DATE: MARCH 3, 2014  
 SCALE: 1"=20'  
 DESIGNED BY: RJS  
 CHECKED BY: DLP  
 DRAWN BY: AKL  
 APPROVED BY: JPS  
 DRAWING TITLE:

GENERAL PLAN 2

DRAWING NO.: C3.2

SHEET NO. 7 OF 19



**NEW ADDITION FOR  
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 A.P. 108 / LOT 28  
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 Bristol, Rhode Island

**JOHN P. SHEVLIN**  
 No. 6358  
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 PROFESSIONAL ENGINEER

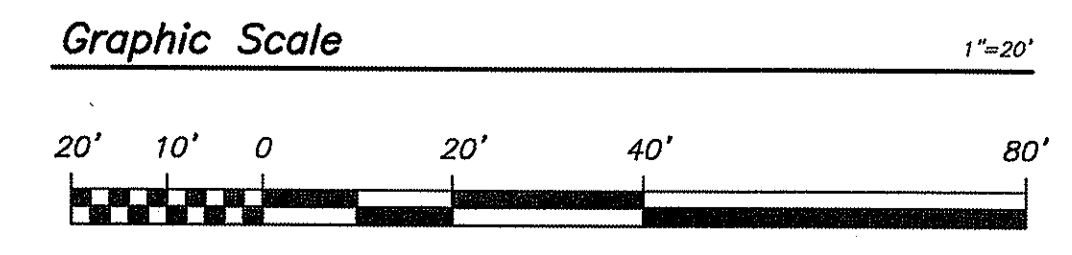
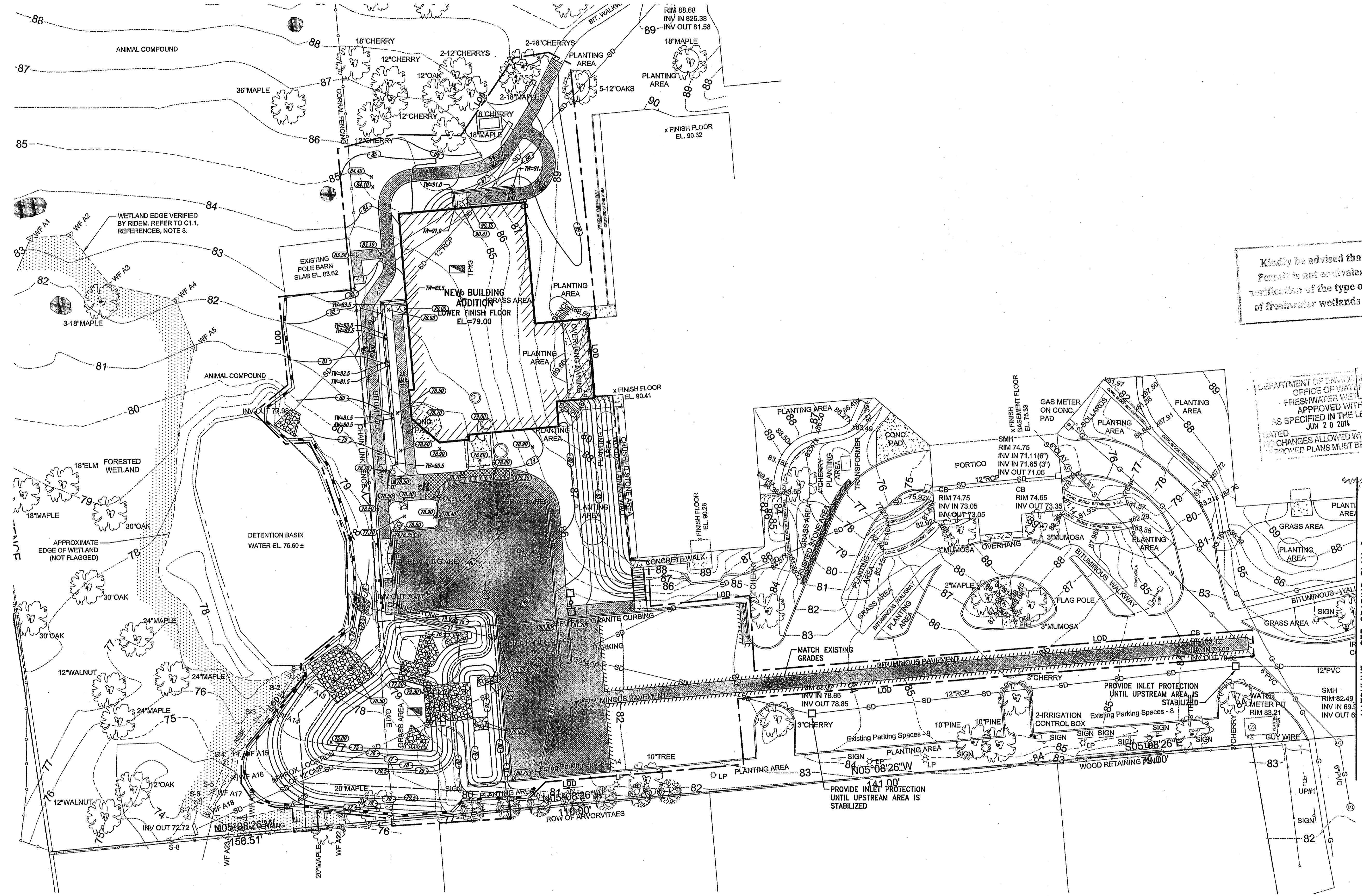
REVISIONS	DATE	DEM COMMENTS
1	5/20/14	
2	5/20/14	

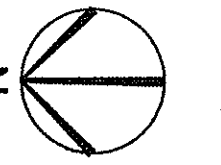
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 DATE: MARCH 3, 2014  
 SCALE: 1"=20'  
 DESIGNED BY: RJS  
 CHECKED BY: DLP  
 DRAWN BY: AKL  
 APPROVED BY: JPS  
 DRAWING TITLE:  
**GRADING PLAN 1**  
 DRAWING NO.: **C4.1**  
 SHEET NO. 8 OF 19

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

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MATCHLINE - SEE GRADING PLAN 2

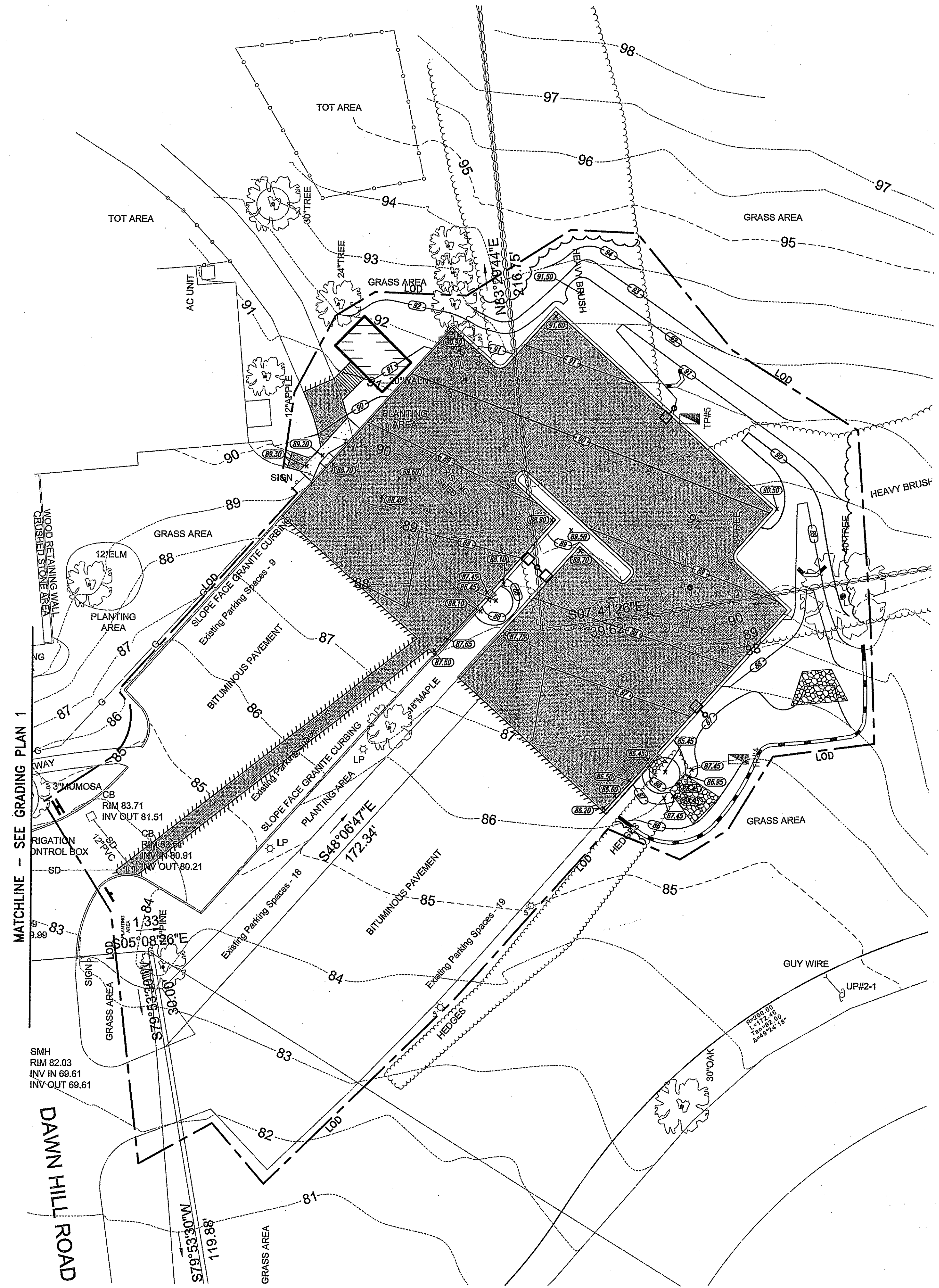




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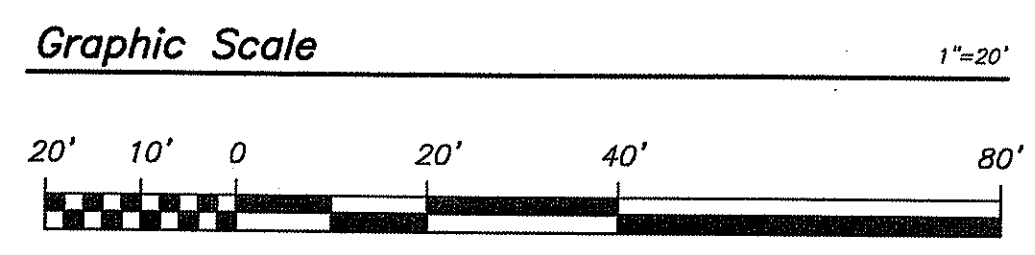
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*Martin D. Wenzel*



MATCHLINE - SEE GRADING PLAN 1

DAWN HILL ROAD



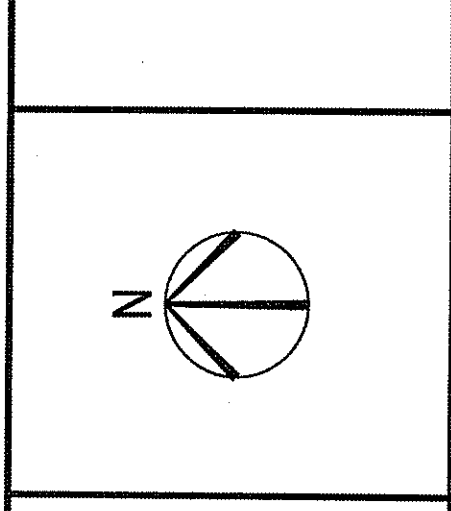
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 DRAWN BY: AKL  
 APPROVED BY: JPS

DRAWING TITLE:  
 GRADING PLAN 2



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 1 Dawn Hill Road  
 Bristol, Rhode Island

**JOHN P. SHEVLIN**  
 No. 6358  
 REGISTERED  
 PROFESSIONAL ENGINEER

REVISIONS	DATE	DEM COMMENTS
1	5/2/2014	DEM COMMENTS
	MAY 2 2014	

PROJECT NO.: 13109.00  
 DATE: MARCH 3, 2014  
 SCALE: 1"=20'  
 DESIGNED BY: RJS  
 CHECKED BY: DLP  
 DRAWN BY: AKL  
 APPROVED BY: JPS  
 DRAWING TITLE:

DRAINAGE &  
 UTILITY PLAN 1

DRAWING NO.:  
**C5.1**  
 SHEET NO. 10 OF 19

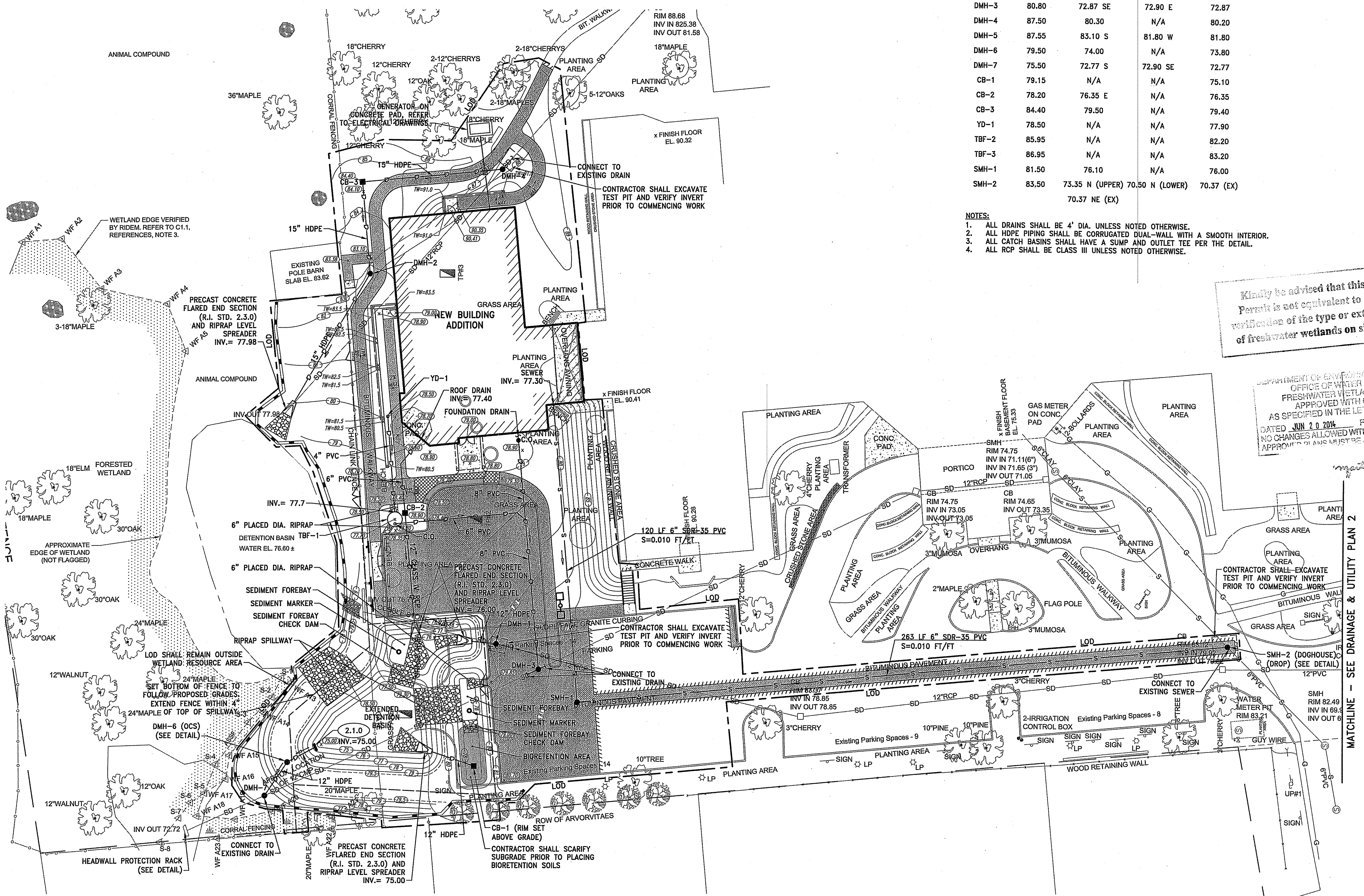
**INVERT TABLE**

LABEL	RIM (FT)	INV. IN (FT)	INV. IN (FT)	INV. OUT (FT)
DMH-1	80.10	77.40	N/A	76.10
DMH-2	82.90	78.90	N/A	78.90
DMH-3	80.80	72.87 SE	72.90 E	72.87
DMH-4	87.50	80.30	N/A	80.20
DMH-5	87.55	83.10 S	81.80 W	81.80
DMH-6	79.50	74.00	N/A	73.80
DMH-7	75.50	72.77 S	72.90 SE	72.77
CB-1	79.15	N/A	N/A	75.10
CB-2	78.20	76.35 E	N/A	76.35
CB-3	84.40	79.50	N/A	79.40
YD-1	78.50	N/A	N/A	77.90
TBF-2	85.95	N/A	N/A	82.20
TBF-3	86.95	N/A	N/A	83.20
SMH-1	81.50	76.10	N/A	76.00
SMH-2	83.50	73.35 N (UPPER) 70.50 N (LOWER) 70.37 NE (EX)		

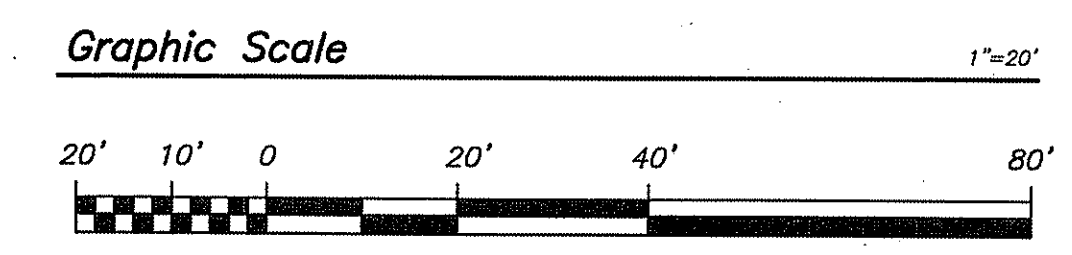
- NOTES:**
1. ALL DRAINS SHALL BE 4' DIA. UNLESS NOTED OTHERWISE.
  2. ALL HDPE PIPING SHALL BE CORRUGATED DUAL-WALL WITH A SMOOTH INTERIOR.
  3. ALL CATCH BASINS SHALL HAVE A SUMP AND OUTLET TEE PER THE DETAIL.
  4. ALL RCP SHALL BE CLASS III UNLESS NOTED OTHERWISE.

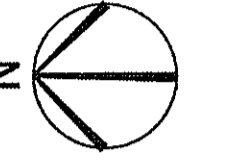
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED JUN 20 2014 FILE # 14-0042  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION



- NOTES:**
1. RUNOFF SHALL BE DIRECTED AWAY FROM PROPOSED TREE BOX FILTER AND BIORETENTION AREA VIA TEMPORARY DIVERSIONS UNTIL THE UPSTREAM AREAS ARE STABILIZED. ONCE UPSTREAM AREAS ARE STABILIZED, TEMPORARY DIVERSIONS SHALL BE REMOVED AND RUNOFF SHALL BE DIRECTED TO THE PROPOSED BMP'S.





**NEW ADDITION FOR  
 ST. ELIZABETH MANOR**  
 AP. 108 / LOT 28  
 1 Dawn Hill Road  
 Bristol, Rhode Island

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
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*Magister D. Wenech*

JOHN P. SHEVLIN  
 No. 6359  
 REGISTERED  
 PROFESSIONAL ENGINEER

REVISIONS:	DATE	BY	DESCRIPTION
1	5/2/2014	JPS	DEM COMMENTS

PROJECT NO.: 13109.00  
 DATE: MARCH 3, 2014  
 SCALE: 1"=20'  
 DESIGNED BY: RJS  
 CHECKED BY: DLP  
 DRAWN BY: AKL  
 APPROVED BY: JPS  
 DRAWING TITLE:

DRAINAGE &  
 UTILITY PLAN 2

DRAWING NO.:

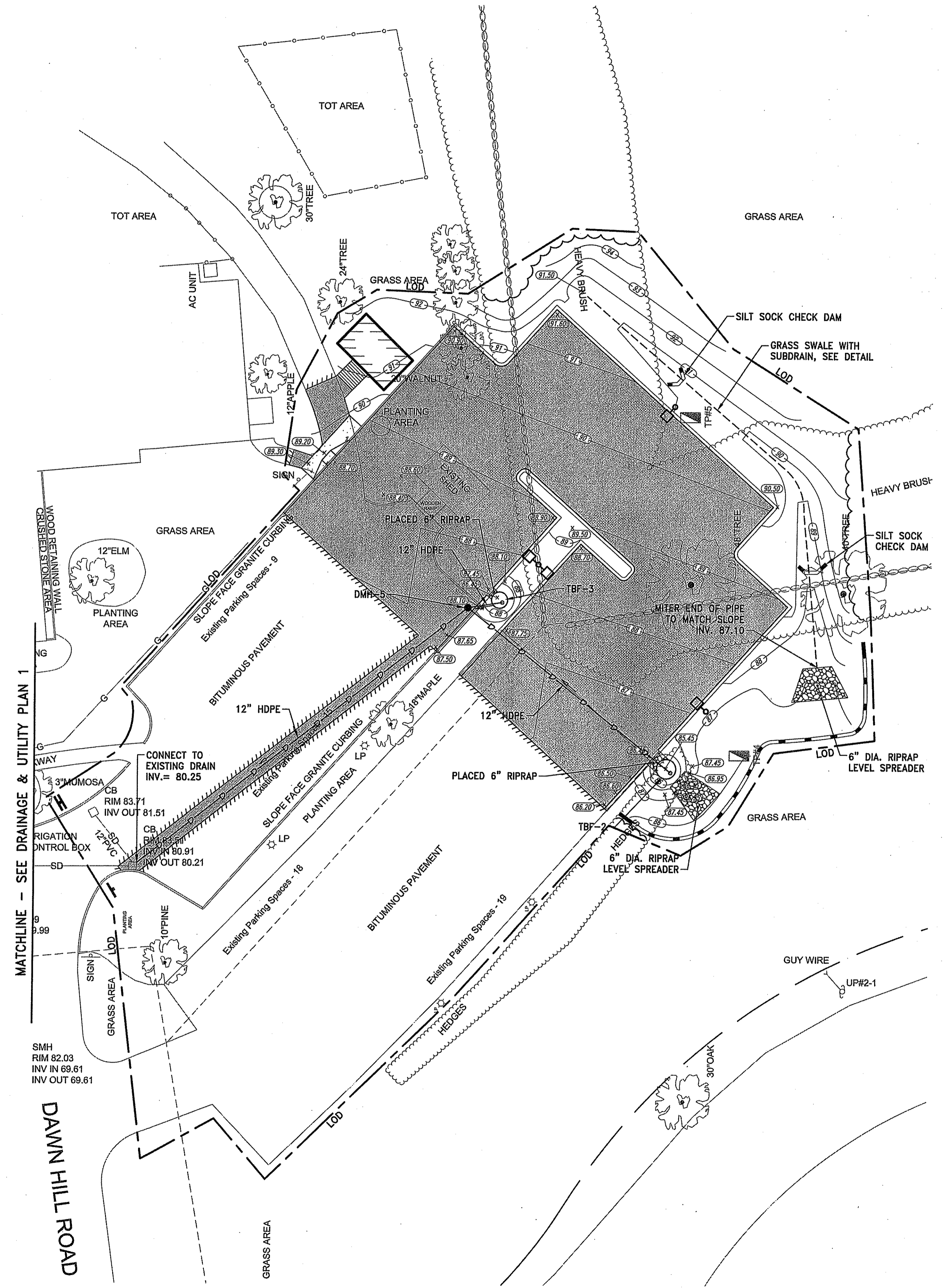
**C5.2**

SHEET NO. 11 OF 19

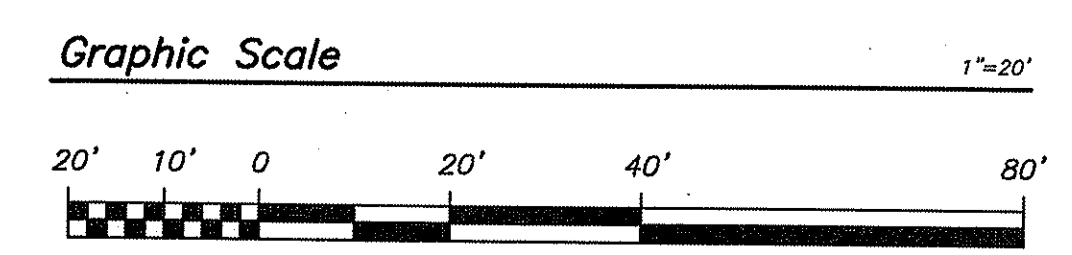
**INVERT TABLE**

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DMH-5	87.55	83.10 S	81.80 W	81.80
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DMH-7	75.50	72.77 S	72.90 SE	72.77
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TBF-2	85.95	N/A	N/A	82.20
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SMH-1	81.50	76.10	N/A	76.00
SMH-2	83.50	73.35 N (UPPER) 70.50 N (LOWER)	70.37 NE (EX)	70.37 (EX)

- NOTES:**
- ALL DRAINS SHALL BE 4' DIA. UNLESS NOTED OTHERWISE.
  - ALL HDPE PIPING SHALL BE CORRUGATED DUAL-WALL WITH A SMOOTH INTERIOR.
  - ALL CATCH BASINS SHALL HAVE A SUMP AND OUTLET TEE PER THE DETAIL.
  - ALL RCP SHALL BE CLASS III UNLESS NOTED OTHERWISE.

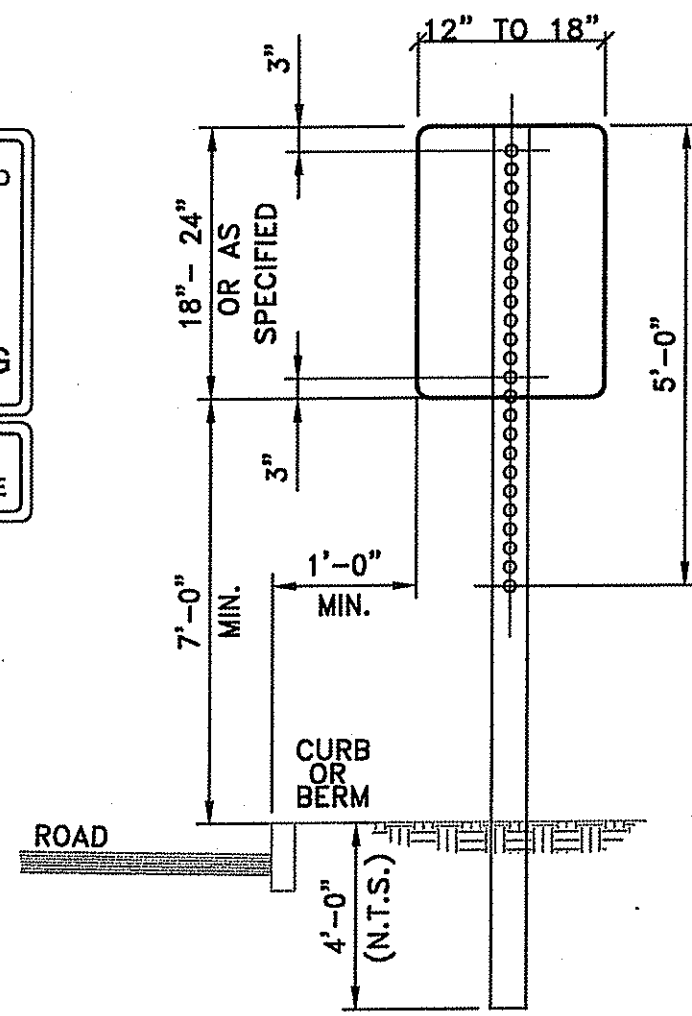


- NOTES:**
- RUNOFF SHALL BE DIRECTED AWAY FROM PROPOSED TREE BOX FILTER AND BIORETENTION AREA VIA TEMPORARY DIVERSIONS UNTIL THE UPSTREAM AREAS ARE STABILIZED. ONCE UPSTREAM AREAS ARE STABILIZED, TEMPORARY DIVERSIONS SHALL BE REMOVED AND RUNOFF SHALL BE DIRECTED TO THE PROPOSED BMP'S.



MATCHLINE - SEE DRAINAGE & UTILITY PLAN 1

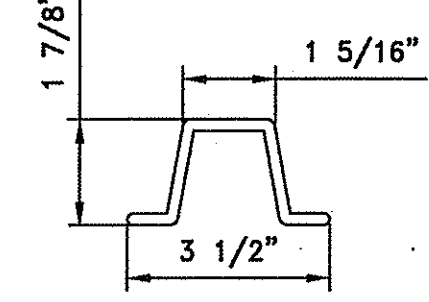
DAWN HILL ROAD



**NOTE:**

5/16" x 2-1/2" GALVANIZED BOLTS & WASHERS  
 STEEL SPECIFICATION - A.S.T.M. DESIGNATION A499-64 ZINC (HOT GALVANIZED) SPECIFIED BY- A.S.T.M. A 123.

WT./FT. 3.00 #  
 Mom. Ix-x 0.484in<sup>4</sup>  
 Sec Mod x-x 0.568in<sup>3</sup>  
 Mom Iy-y 0.886in<sup>4</sup>  
 Sec Mod y-y 0.506in<sup>3</sup>



PARKING SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30° NOR MORE THAN 45° IN A LINE PARALLEL TO THE FLOW OF TRAFFIC.

**SIGN MOUNTING NOTES:**

1. ALL LAG SCREWS, BOLTS AND WASHERS SHALL BE GALVANIZED 5/16"x2 1/2" LONG UNLESS OTHERWISE NOTED.
2. WASHERS SHALL BE 0.07" THICK.
3. ALL SIGN COLORS, RADII AND BORDERS AS SPECIFIED IN "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."

**HANDICAP SIGN NOTES:**

1. ALL HANDICAP PARKING AND SIGNAGE SHALL BE IN CONFORMANCE WITH THE RULES & REGULATIONS AS SPECIFIED BY THE AMERICAN DISABILITIES ACT (ADA).
2. SIGN(S) SHALL BE LOCATED SO THEY CANNOT BE OBTSCURED BY A VEHICLE PARKED IN THE SPACE.
3. FOR HANDICAPPED VAN SPACE USE SIGN AS DETAILED.
4. FOR HANDICAPPED SPACE FOR AUTOMOBILES USE ONLY HANDICAPPED PARKING SIGN.

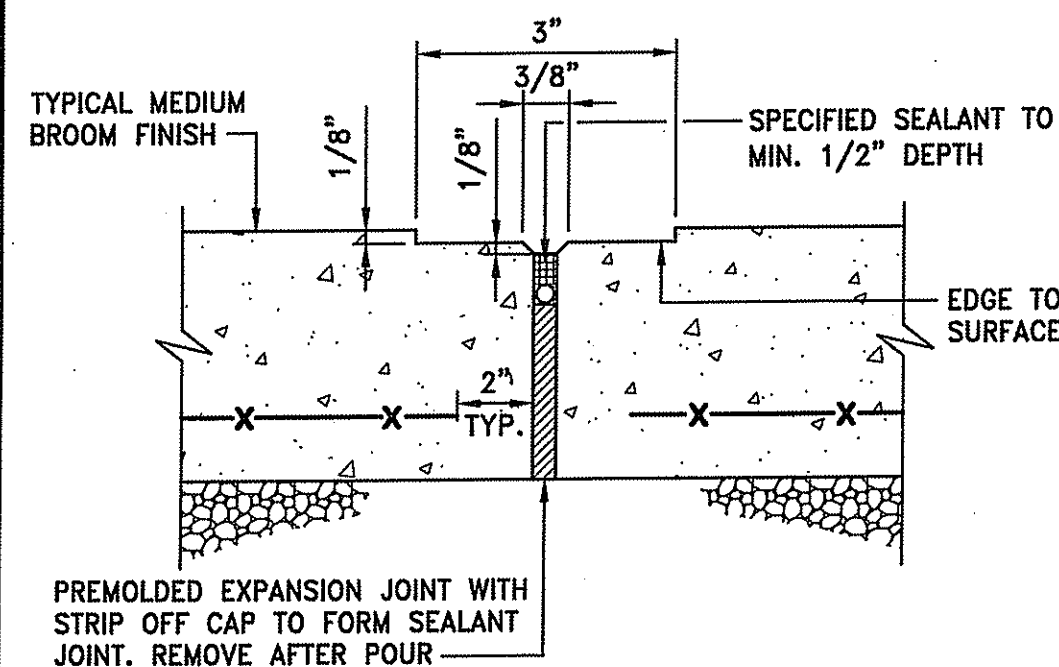
**SIGN MOUNTING**  
 NOT TO SCALE

LEGEND	DESIGNATION	SIZE
	R1-1	(30" x 30")
	R5-1	(30" x 30")

**SIGN SCHEDULE**

**NOTE:**

1. SIGNS SHALL BE CONSTRUCTED OF TYPE III REFLECTORIZED SHEETING AND IN ACCORDANCE WITH MUTCD REQUIREMENTS.
2. THE CONTRACTOR SHALL SUBMIT SAMPLE SIGNS TO THE OWNER FOR APPROVAL PRIOR TO FURNISHING.
3. LETTERS, COLOR, AND FONT FOR NON-STANDARD SIGNS SHALL BE SELECTED BY THE OWNER.



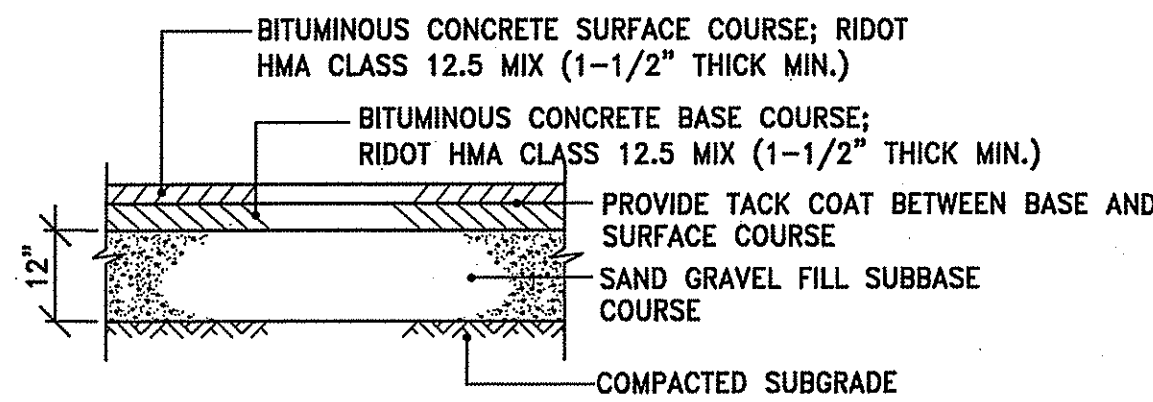
**EXPANSION JOINT AT 20' O.C. (TYP)**

**NOTES:**

1. EXPANSION JOINTS (E.J.) 20" O.C. UNLESS OTHERWISE NOTED.
2. CONTROL JOINTS (C.J.) 5' O.C. UNLESS OTHERWISE NOTED.
3. WHERE EXISTING AND NEW CONCRETE SIDEWALKS MEET, SAWCUT EXISTING WALK AND INSTALL EXPANSION JOINT AND DOWELS AS SHOWN. DRILL EXISTING CONCRETE WALK EDGE TO RECEIVE STEEL DOWELS AT EXPANSION JOINT.

**EXPANSION AND CONTROL JOINTS FOR SIDEWALK PAVING**

NOT TO SCALE

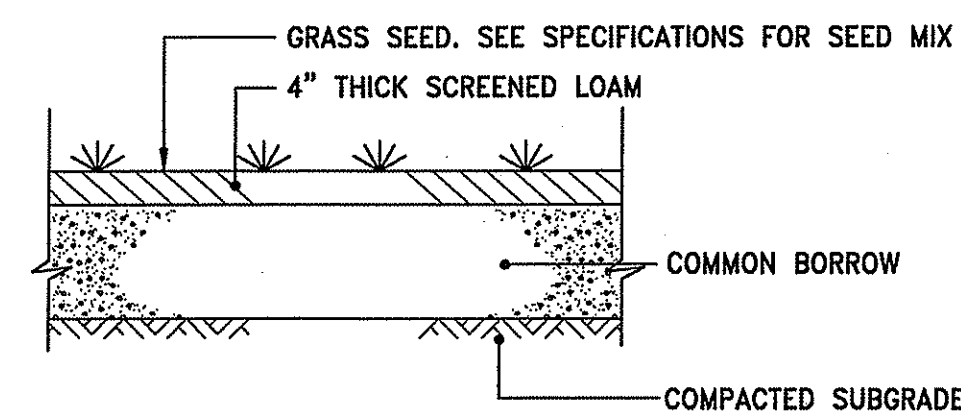


**NOTES:**

1. THE THICKNESS OF THE PROPOSED PAVEMENT COURSE SHALL MATCH THE EXISTING PAVEMENT. PROVIDE THE MINIMUM THICKNESS SHOWN.
2. SUBMIT JOB MIX FORMULAS TO ENGINEER FOR APPROVAL PRIOR TO PLACEMENT

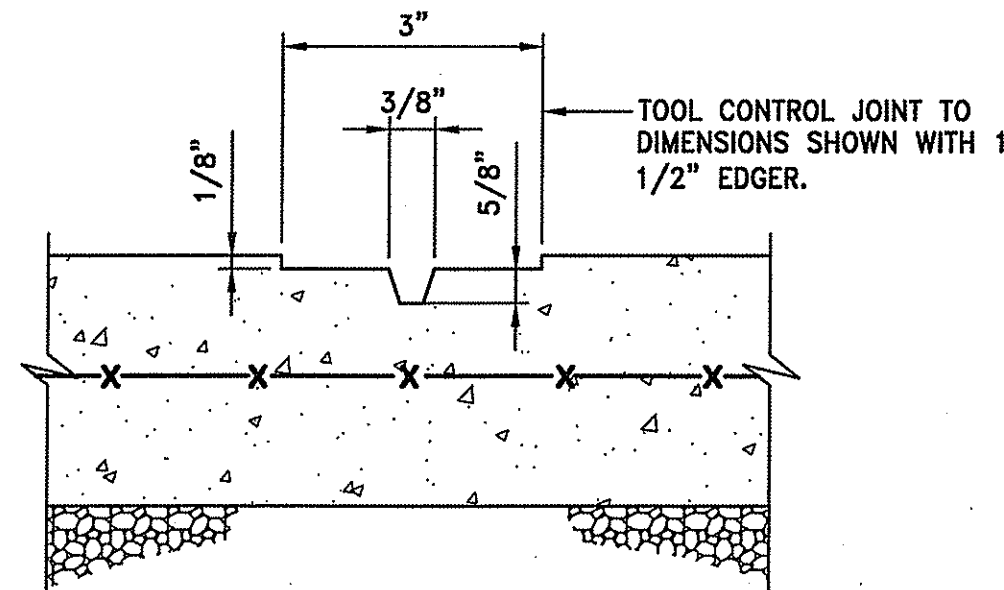
**BC TYPICAL PAVEMENT DETAIL**

NOT TO SCALE

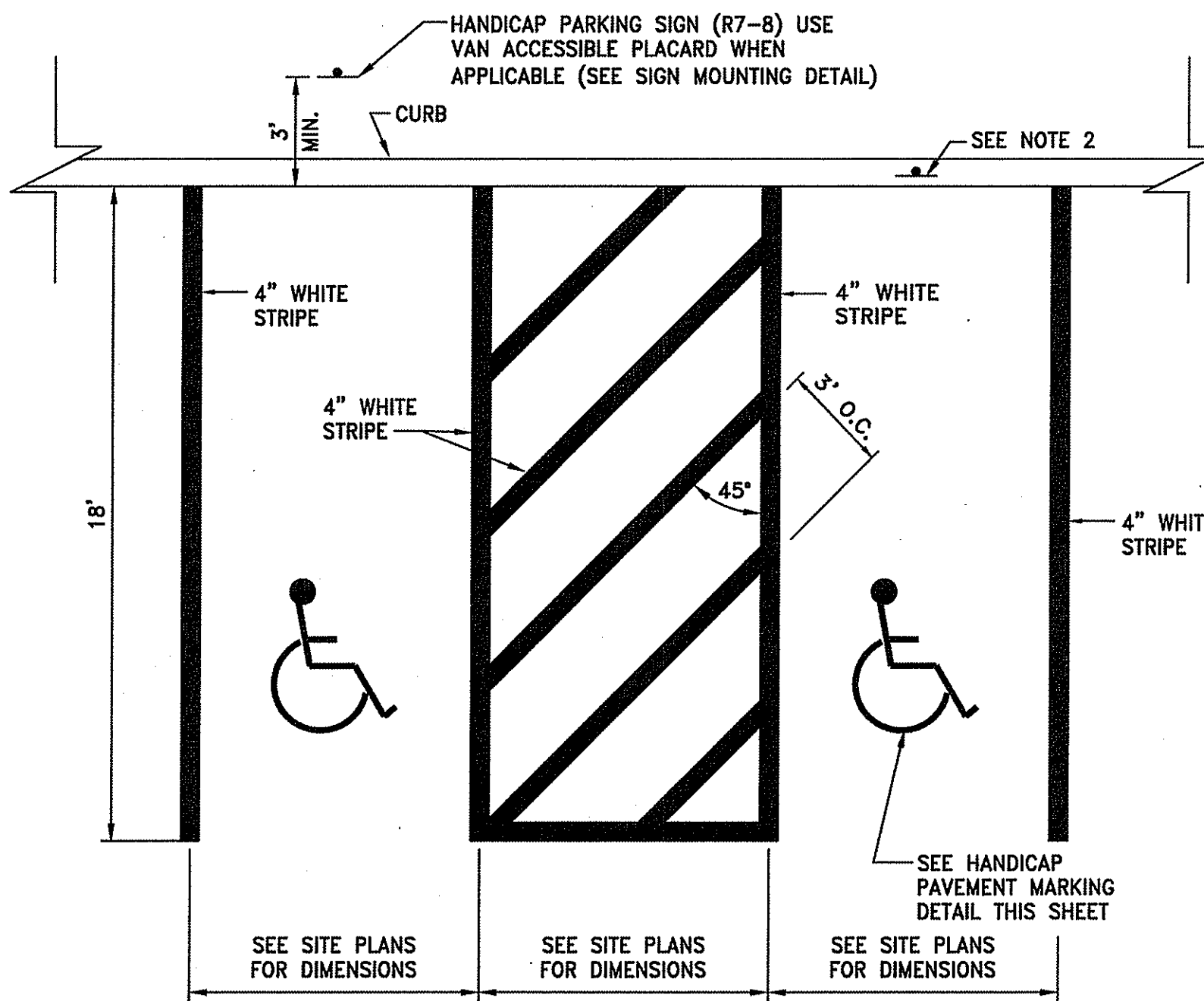


**LOAM & SEED DETAIL**

NOT TO SCALE



**CONTROL JOINT AT 5' O.C. (TYP)**

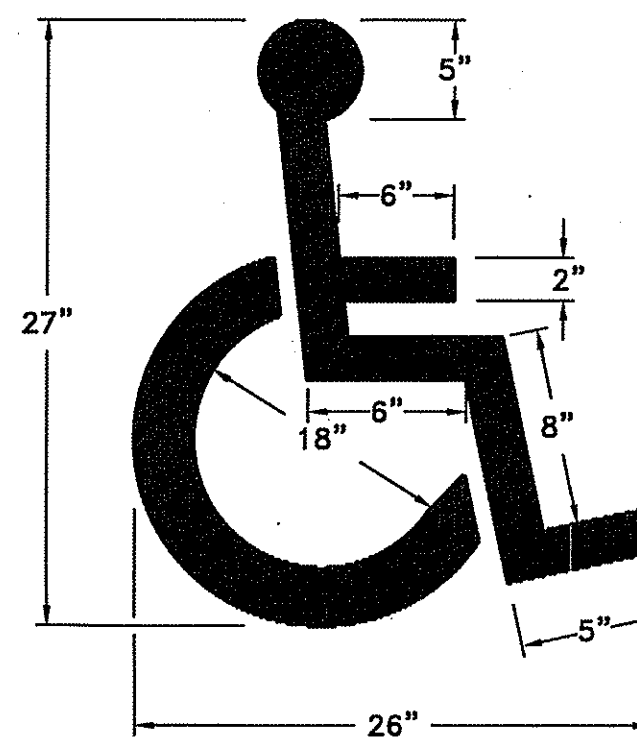


**NOTE:**

1. WHERE STALLS ABUT SIDEWALK, PARKING SIGNS SHOULD BE PLACED AT BACK EDGE OF SIDEWALK.
2. ALL PAVEMENT MARKINGS TO BE EPOXY RESIN.

**SHP HANDICAP PARKING STALLS @ 90°**

NOT TO SCALE

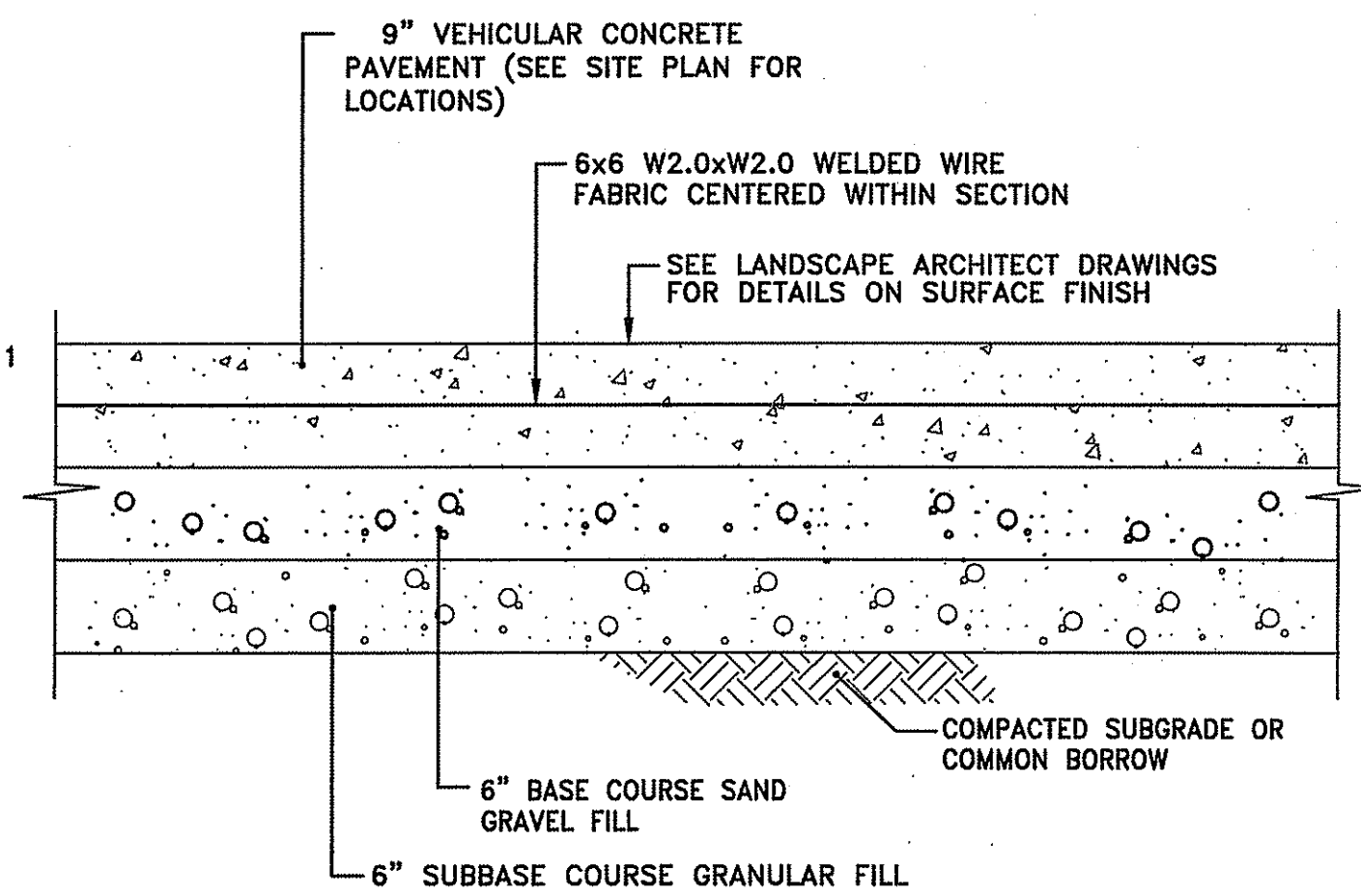


**NOTE:**

HANDICAP PARKING AND SIGNAGE SHALL BE IN CONFORMANCE WITH THE RULES & REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT.

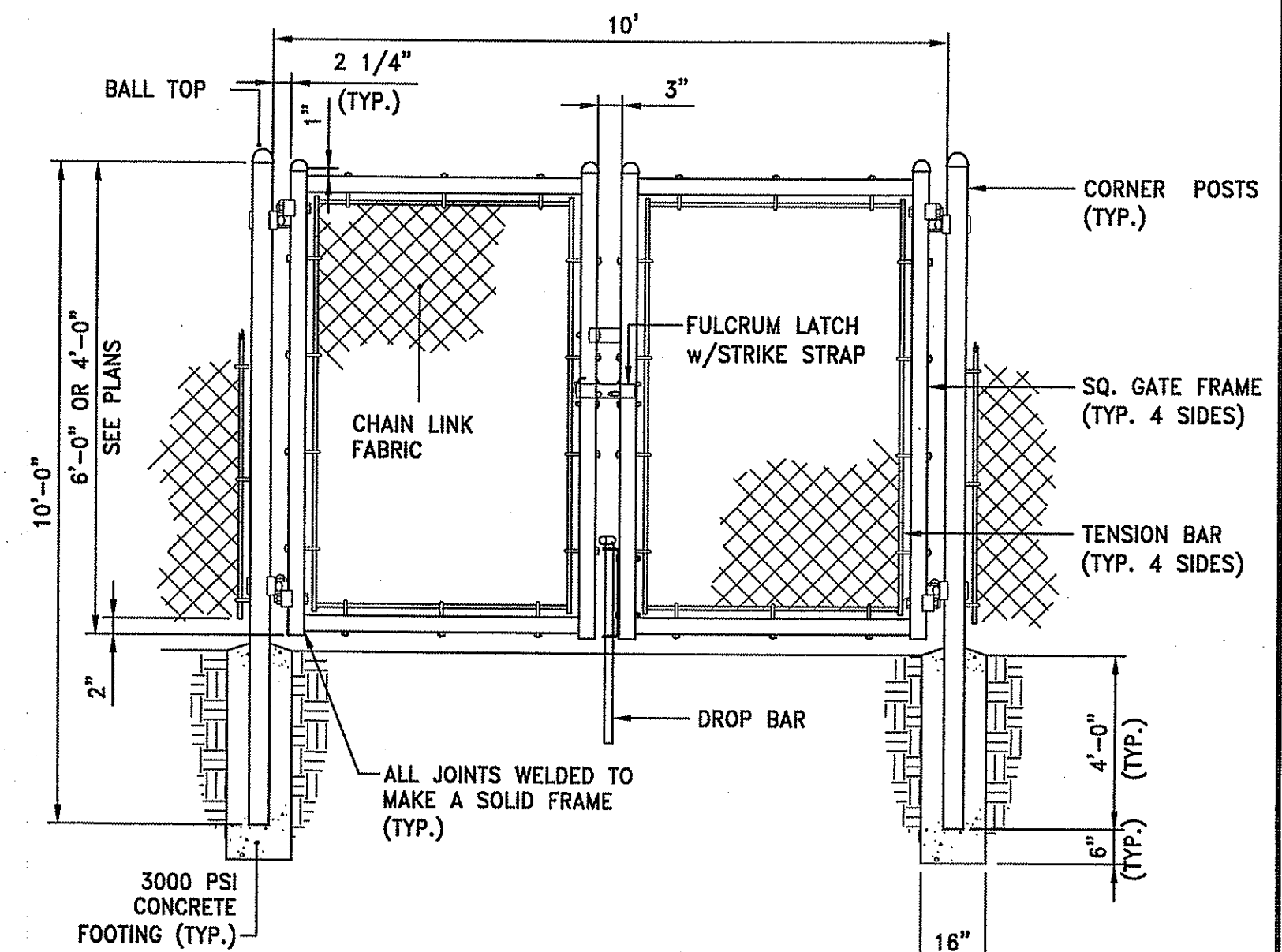
**HANDICAP PAVEMENT MARKING**

NOT TO SCALE



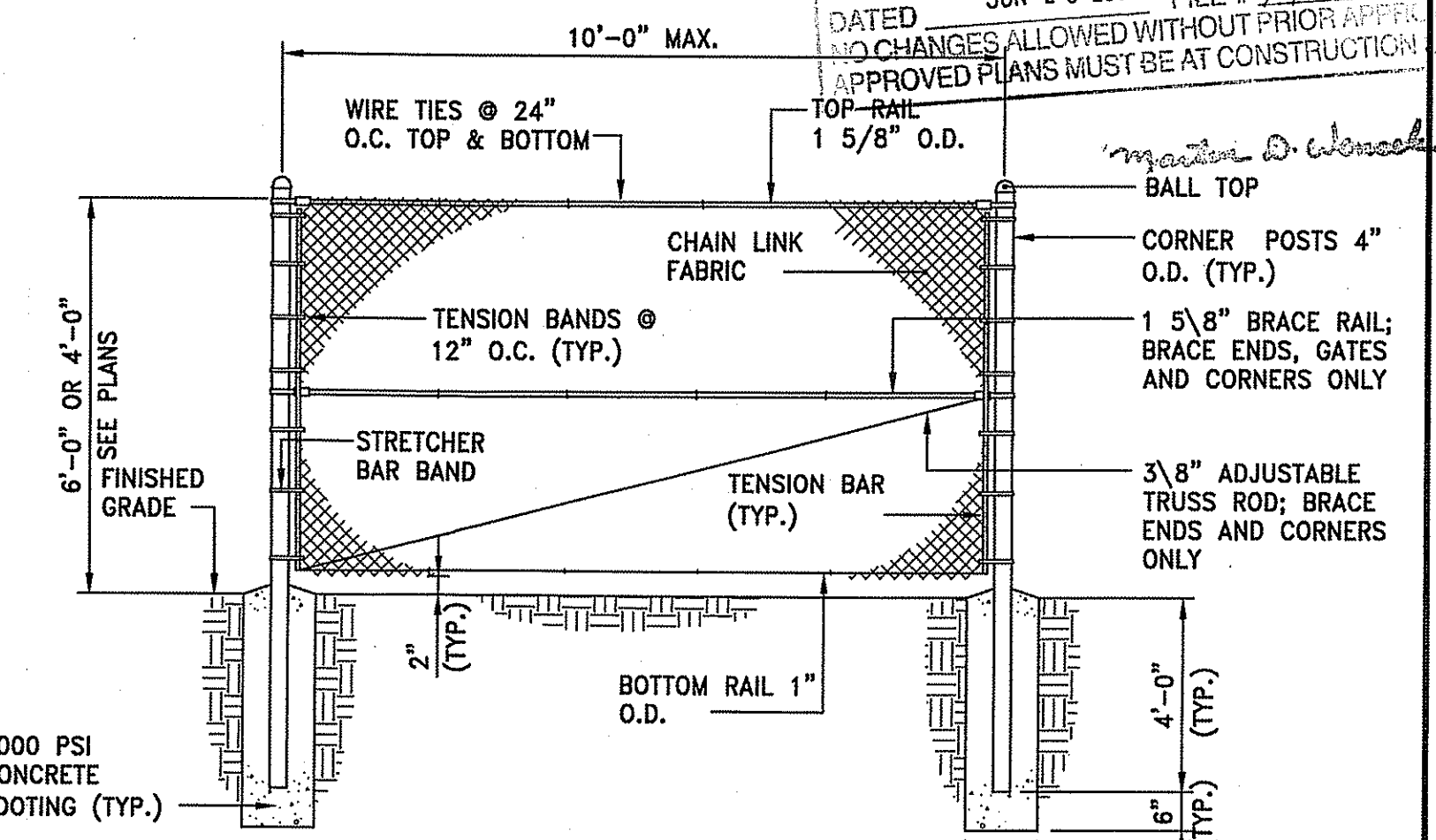
**VEHICULAR CONCRETE PAVEMENT**

NOT TO SCALE



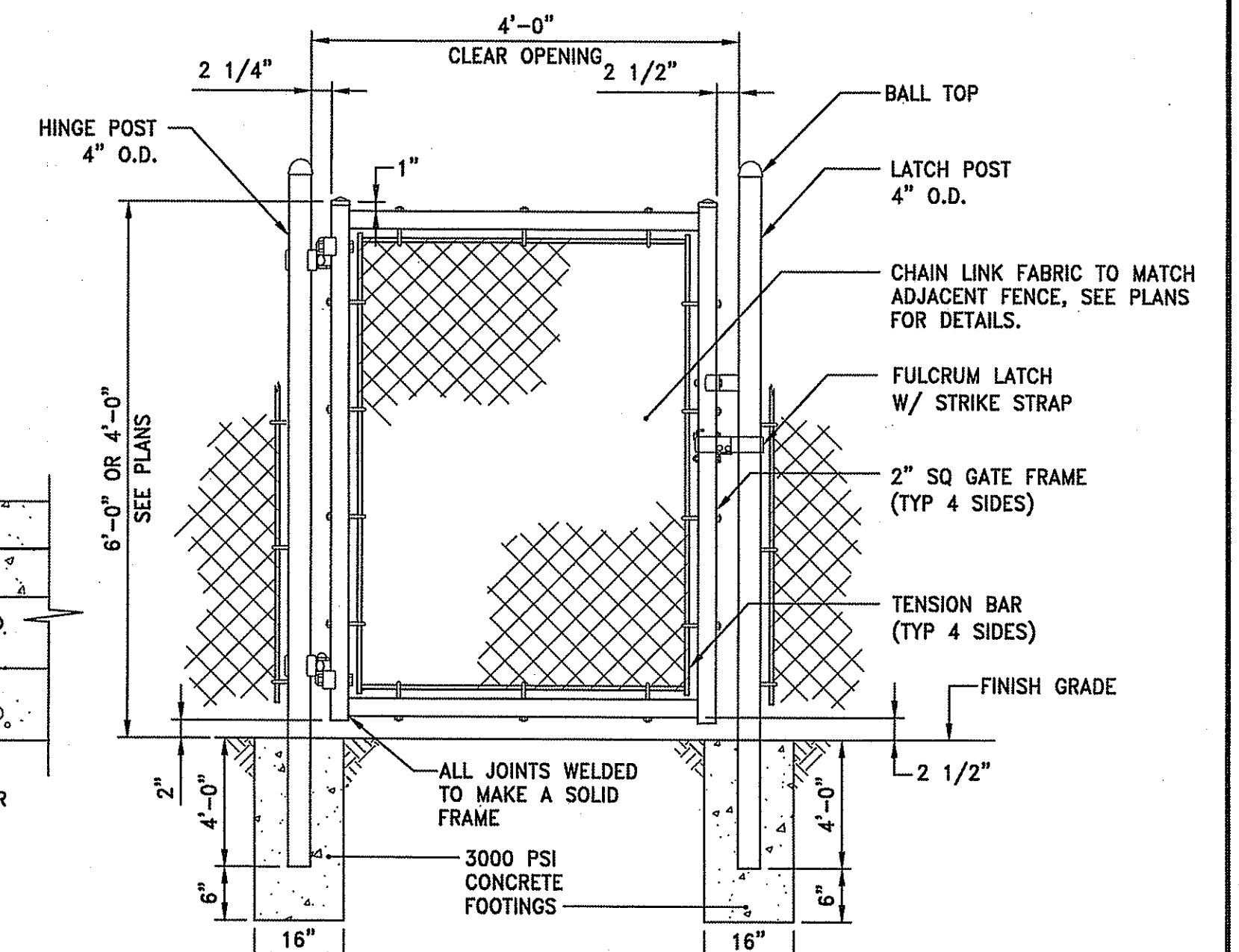
**10' WIDE SWING GATE DETAIL**

NOT TO SCALE



**CHAIN LINK FENCE**

NOT TO SCALE



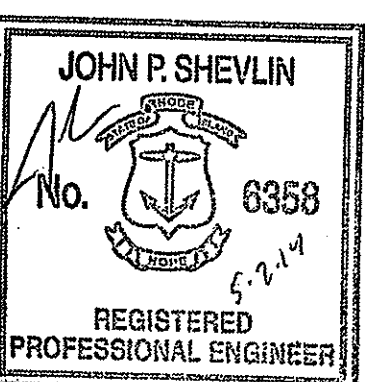
**4' WIDE SWING GATE**

NOT TO SCALE



OWNER / APPLICANT:  
 St. Elizabeth Acquisition Corp.  
 1 Dawn Hill Road  
 Bristol, RI

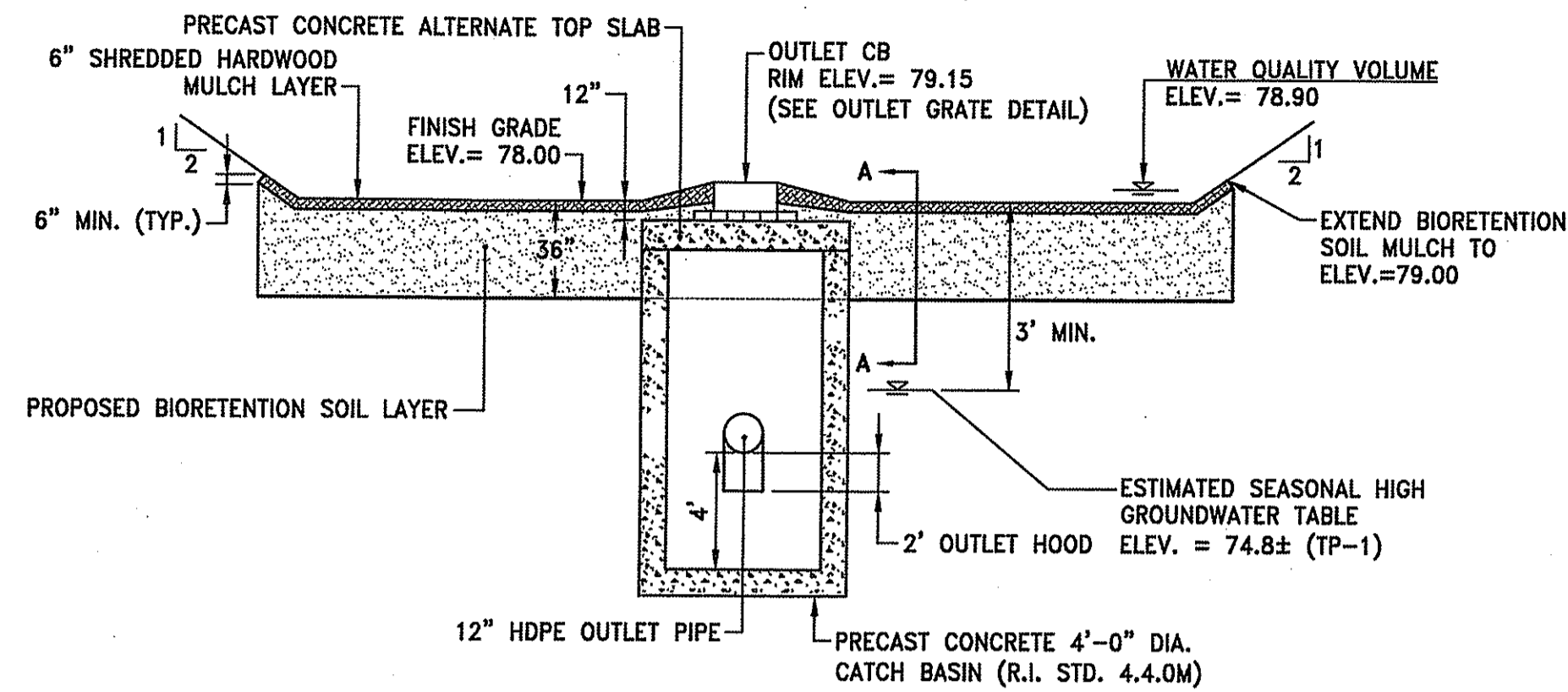
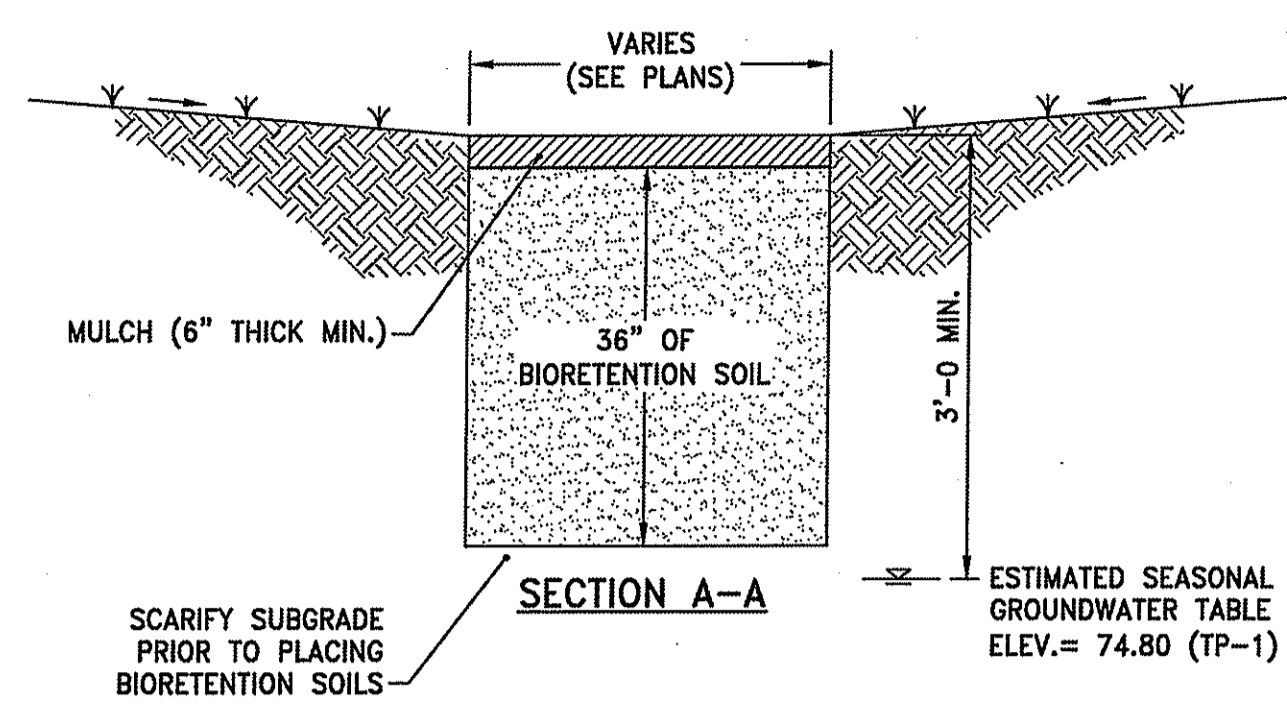
**NEW ADDITION FOR  
 ST. ELIZABETH MANOR**  
 A.P. 108 / LOT 28  
 1 Dawn Hill Road  
 Bristol, Rhode Island



REVISIONS	DATE	DEM COMMENTS
1	5/2/2014	
2	5/2/2014	
3	5/2/2014	

PROJECT NO.: 13109.00  
 DATE: MARCH 3, 2014  
 SCALE: NOT TO SCALE  
 DESIGNED BY: RJS  
 CHECKED BY: DLP  
 DRAWN BY: AKL  
 APPROVED BY: JPS  
 DRAWING TITLE:

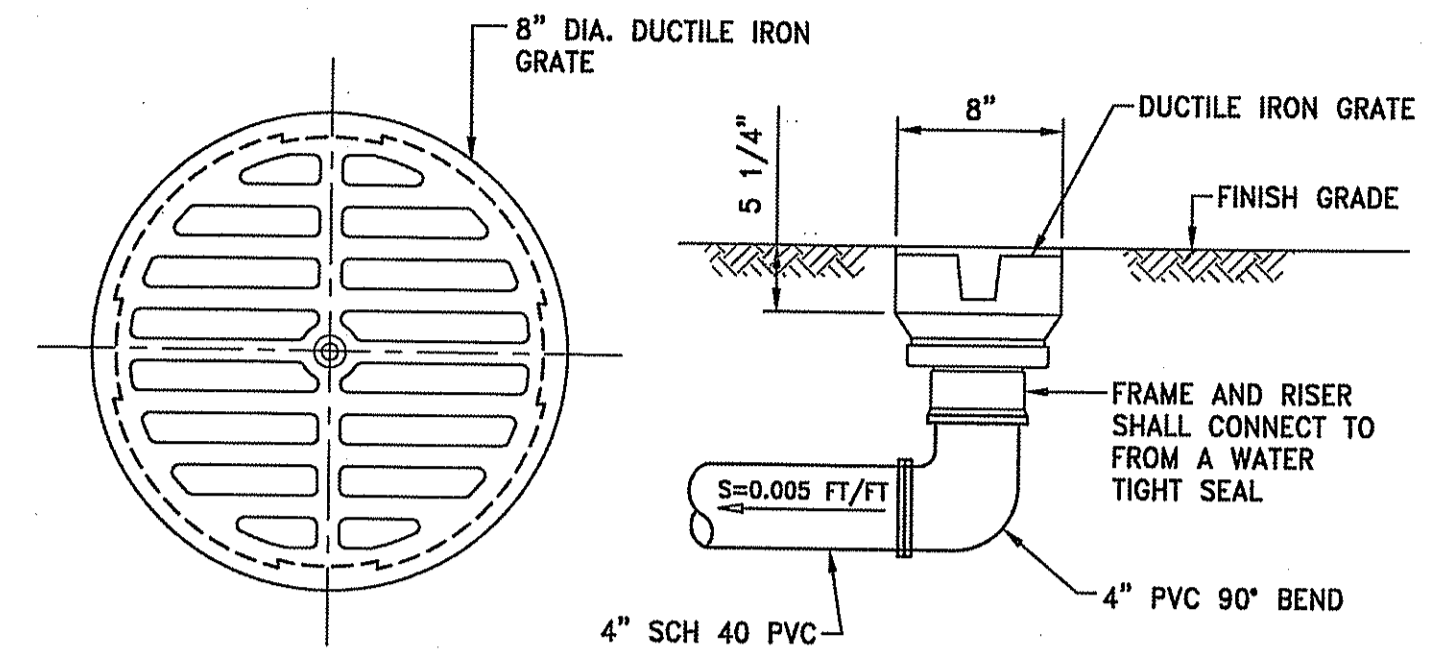
DETAILS 1  
 DRAWING NO.:  
**C6.1**  
 SHEET NO. 12 OF 19



BIORETENTION SOIL: 85-88% SAND, 8-12% SILT, 0-2% CLAY, 3-5% ORGANIC MATTER (USDA LOAMY SAND OR SANDY LOAM)

MULCH: SHREDDED HARDWOOD (AGED 6-MONTHS)

**BIORETENTION DETAIL**  
NOT TO SCALE



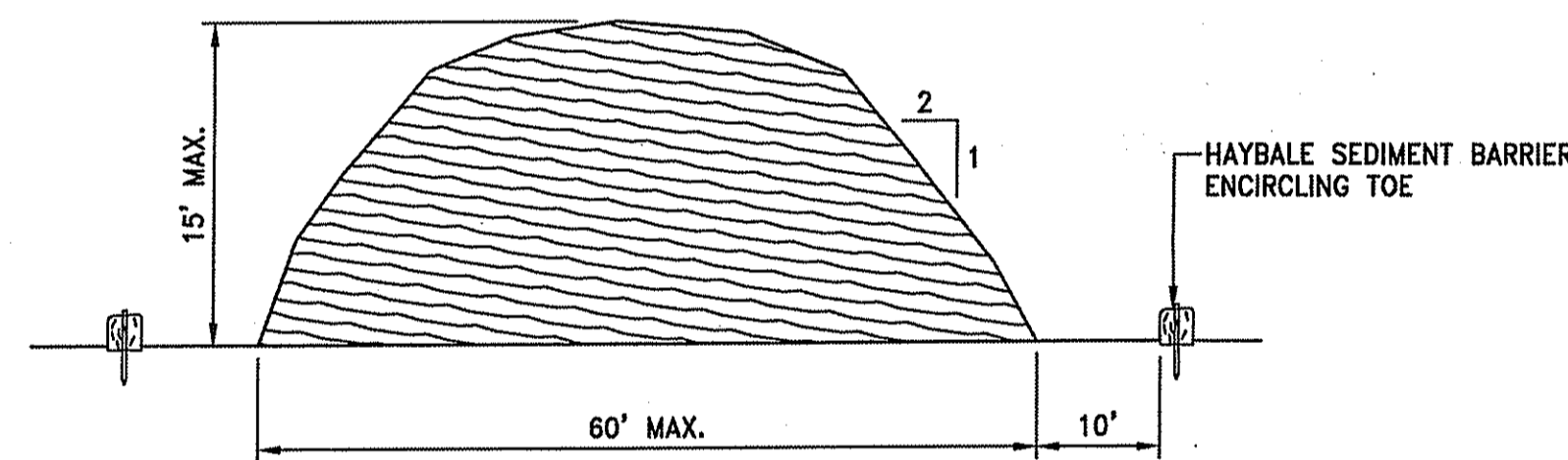
**NOTES:**

1. MATERIALS SHALL CONFORM TO ASTM A 536 GRADE 70-50-05
2. CASTING SHALL BE FURNISHED WITH A BLACK PAINT

**YARD DRAIN DETAIL**  
NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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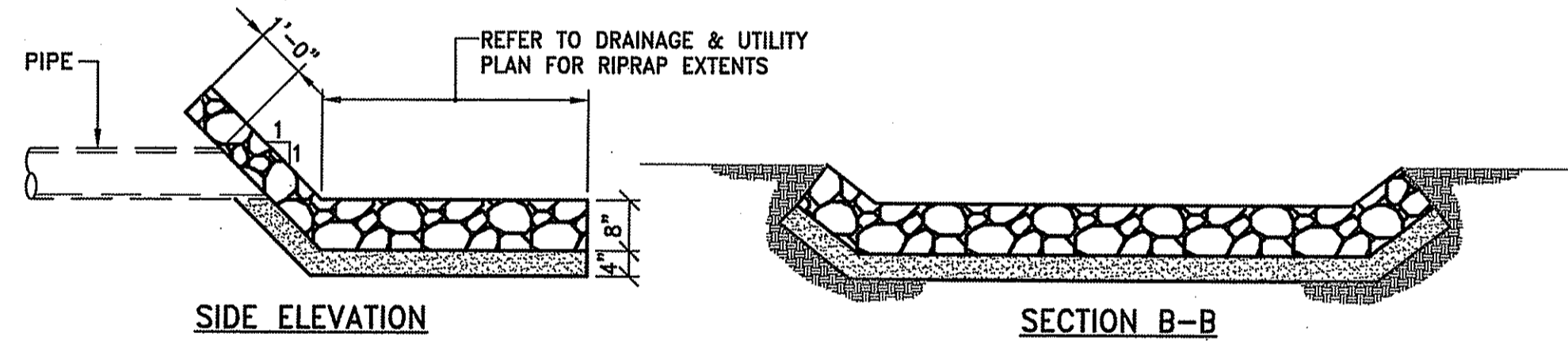
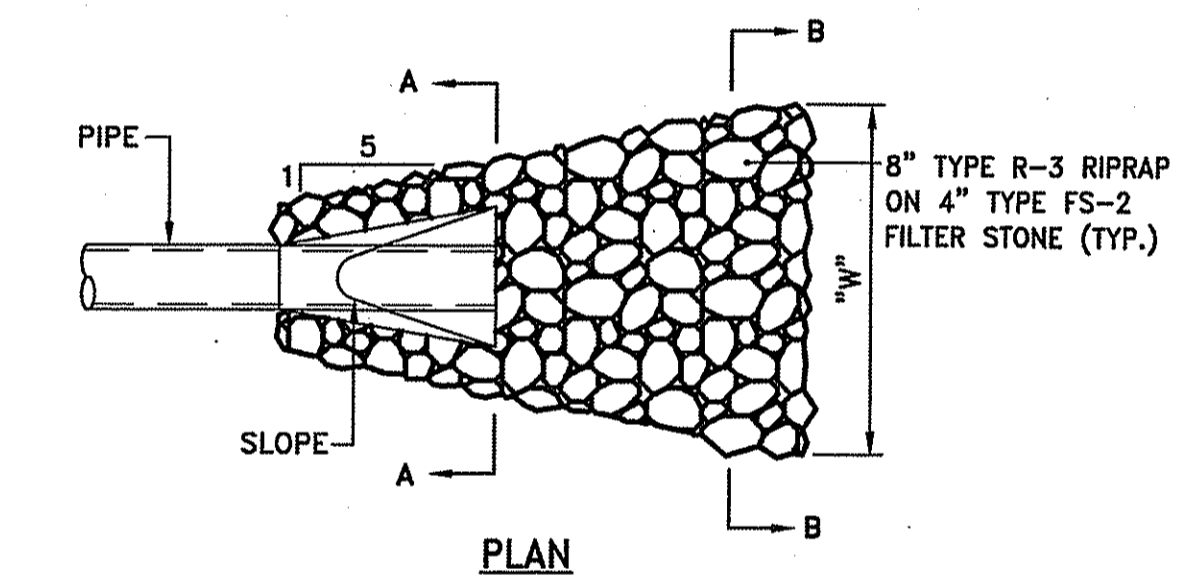
*Master D. Wencel*



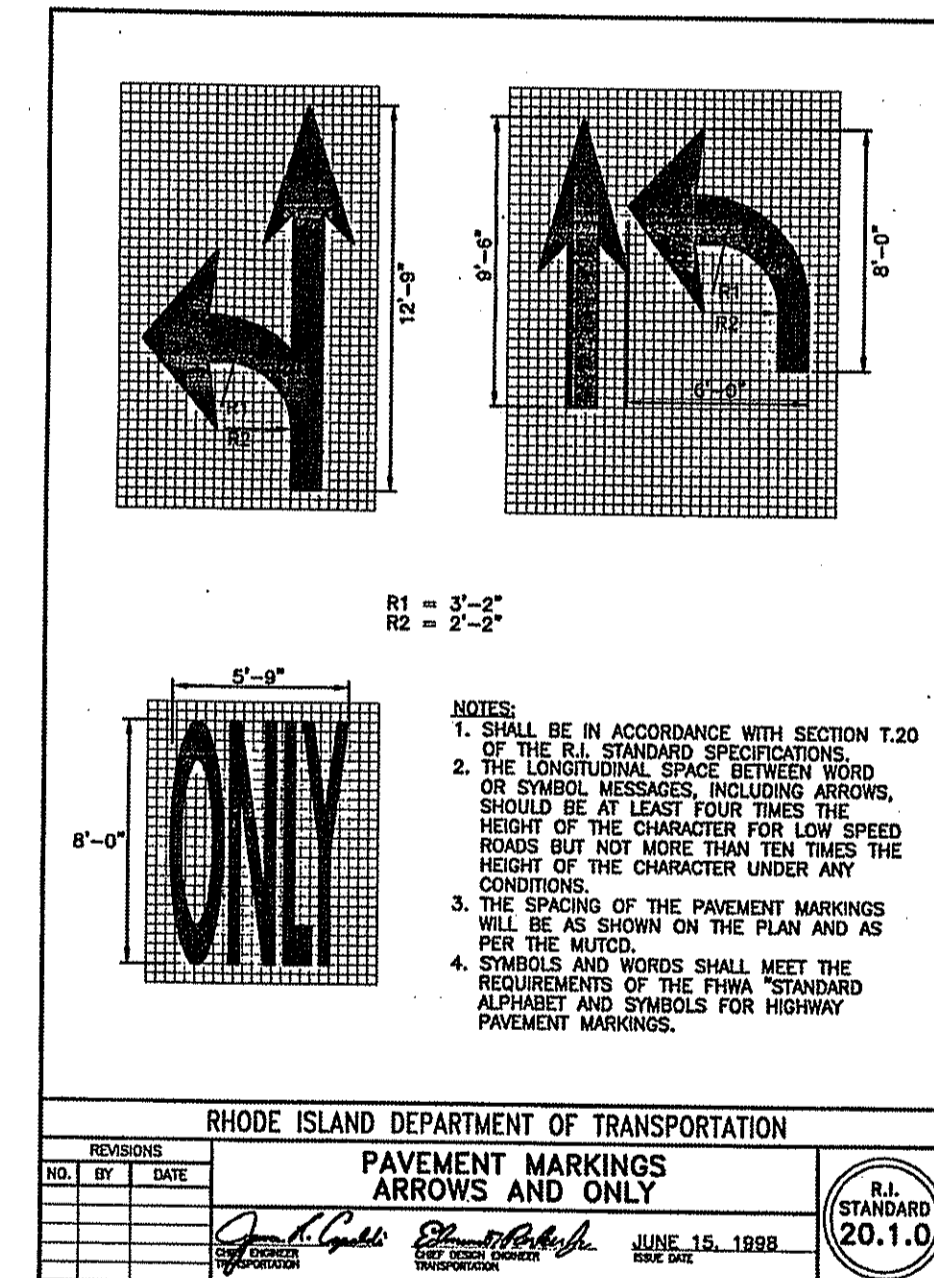
**NOTES:**

1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL PREPARE A PLAN SHOWING THE PROPOSED LOCATION OF ALL STOCKPILE AREAS.
2. STOCKPILE AREA SHALL NOT EXCEED SPECIFIED DIMENSIONS WITHOUT APPROVAL FROM ENGINEER.
3. STOCKPILED ERODIBLE MATERIAL THAT WILL NOT BE USED FOR GREATER THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION IMMEDIATELY FOLLOWING PLACEMENT.

**ERODIBLE MATERIAL STOCKPILE**  
NOT TO SCALE

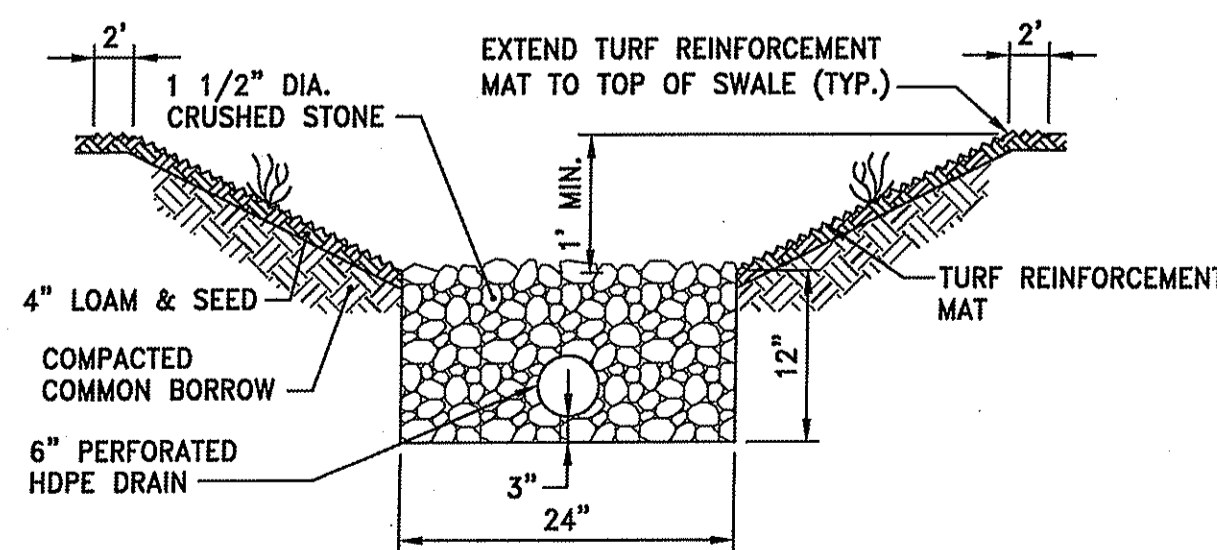


**RIPRAP LEVEL SPREADER**  
NOT TO SCALE

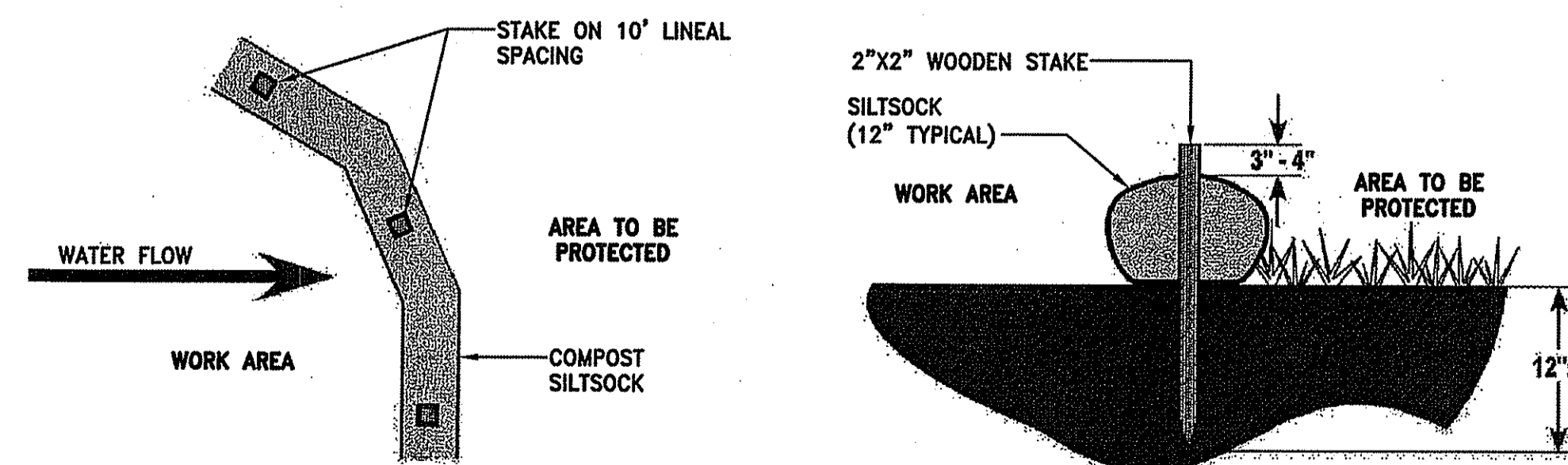


- NOTES:**
1. SHALL BE IN ACCORDANCE WITH SECTION T.20 OF THE R.I. STANDARD SPECIFICATIONS
  2. THE LONGITUDINAL SPACE BETWEEN WORDS OR SYMBOL MESSAGES, INCLUDING ARROWS, SHOULD BE AT LEAST FOUR TIMES THE HEIGHT OF THE CHARACTER FOR LOW SPEED ROADS BUT NOT MORE THAN TEN TIMES THE HEIGHT OF THE CHARACTER UNDER ANY CONDITIONS.
  3. THE SPACING OF THE PAVEMENT MARKINGS WILL BE AS SHOWN ON THE PLAN AND AS PER THE MUTCD.
  4. SYMBOLS AND WORDS SHALL MEET THE REQUIREMENTS OF THE FHWA STANDARD ALPHABET AND SYMBOLS FOR HIGHWAY PAVEMENT MARKINGS.

REVISIONS		DATE	BY	REASON
1	5/2/2014			DEM COMMENTS



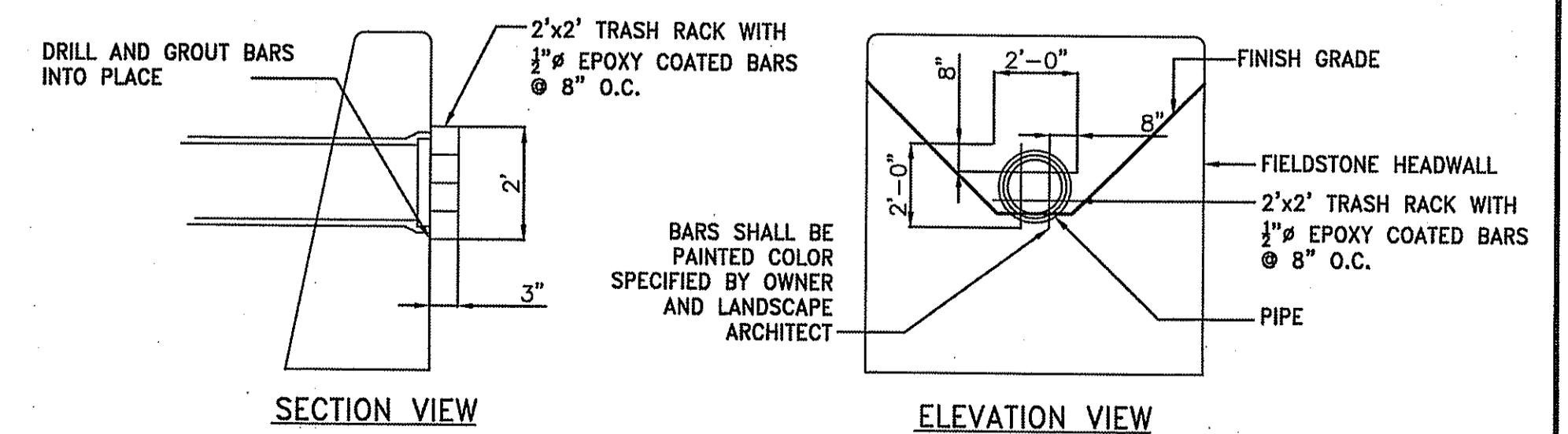
**GRASS SWALE WITH SUBDRAIN**  
NOT TO SCALE



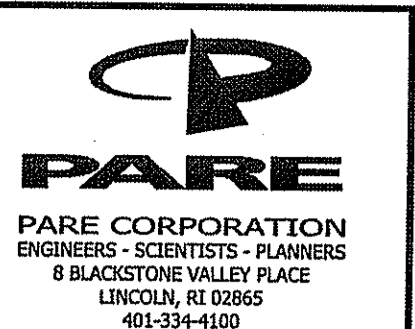
**NOTES:**

1. COMPOST/ SOIL/ ROCK/ SEED FILL TO MEET APPLICATION REQUIREMENTS.
2. COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE AS DETERMINED BY ENGINEER.

**SILT SOCK DETAIL**  
NOT TO SCALE

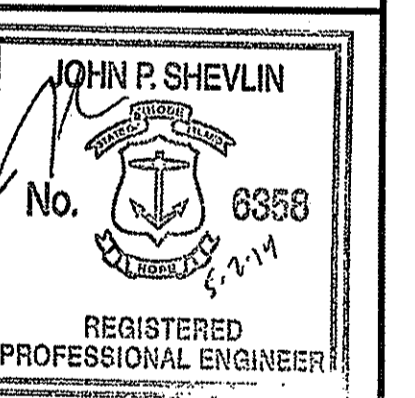


**HEADWALL PROTECTION RACK DETAIL**  
NOT TO SCALE



OWNER / APPLICANT:  
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Bristol, RI

**NEW ADDITION FOR  
ST. ELIZABETH MANOR**  
A.P. 108 / LOT 28  
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Bristol, Rhode Island



REVISIONS		DATE	BY	REASON
1	5/2/2014			DEM COMMENTS

PROJECT NO.: 13109.00  
DATE: MARCH 3, 2014  
SCALE: NOT TO SCALE  
DESIGNED BY: RJS  
CHECKED BY: DLP  
DRAWN BY: AKL  
APPROVED BY: JPS  
DRAWING TITLE:

DETAILS 2

DRAWING NO.: **C6.2**  
SHEET NO. 13 OF 19

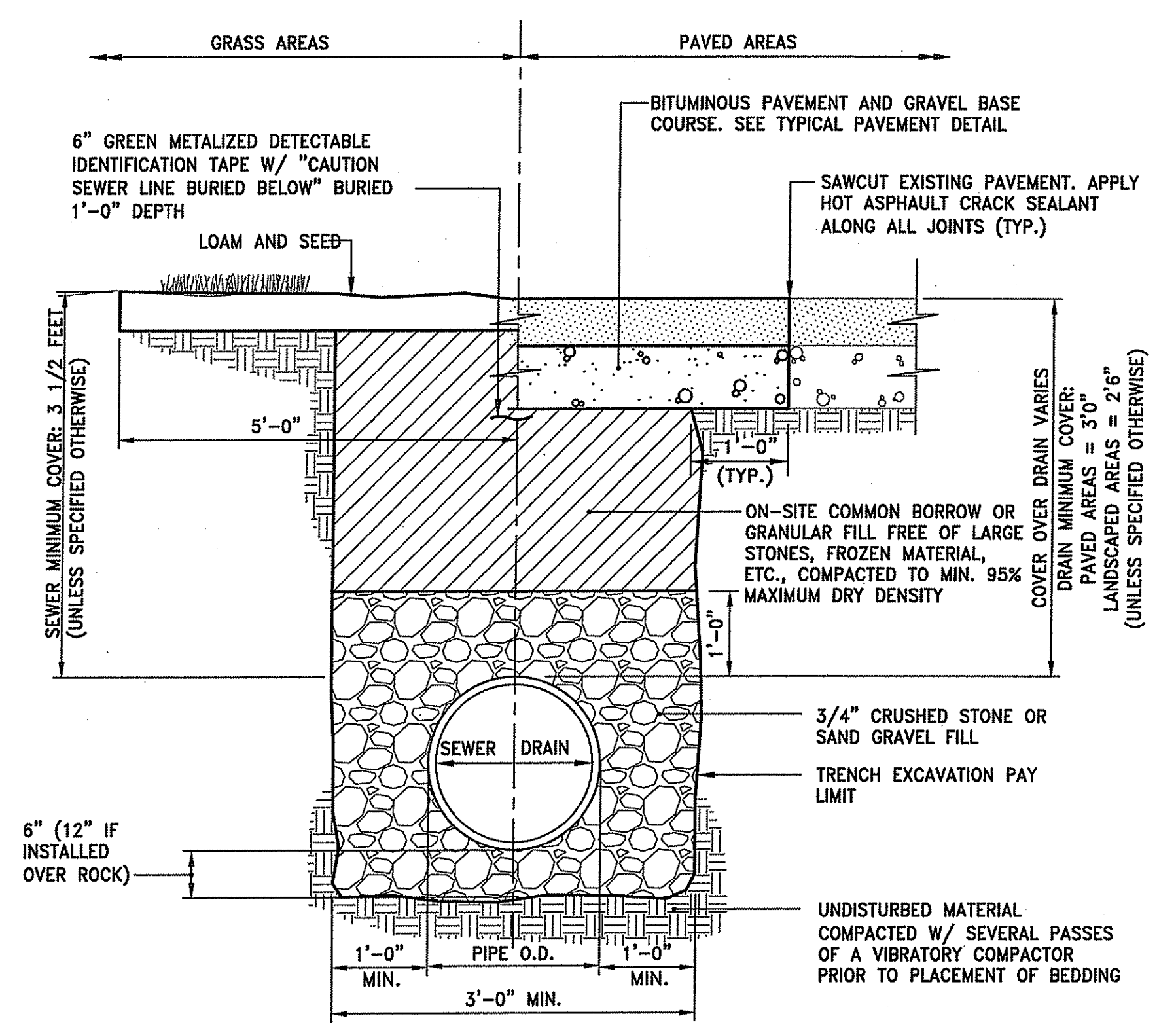
REVISIONS	DATE	DEM COMMENTS
1	5/2/2014	
	4/11/2014	

PROJECT NO.: 13109.00  
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 SCALE: NOT TO SCALE  
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 CHECKED BY: DLP  
 DRAWN BY: AKL  
 APPROVED BY: JPS  
 DRAWING TITLE:

DETAILS 3

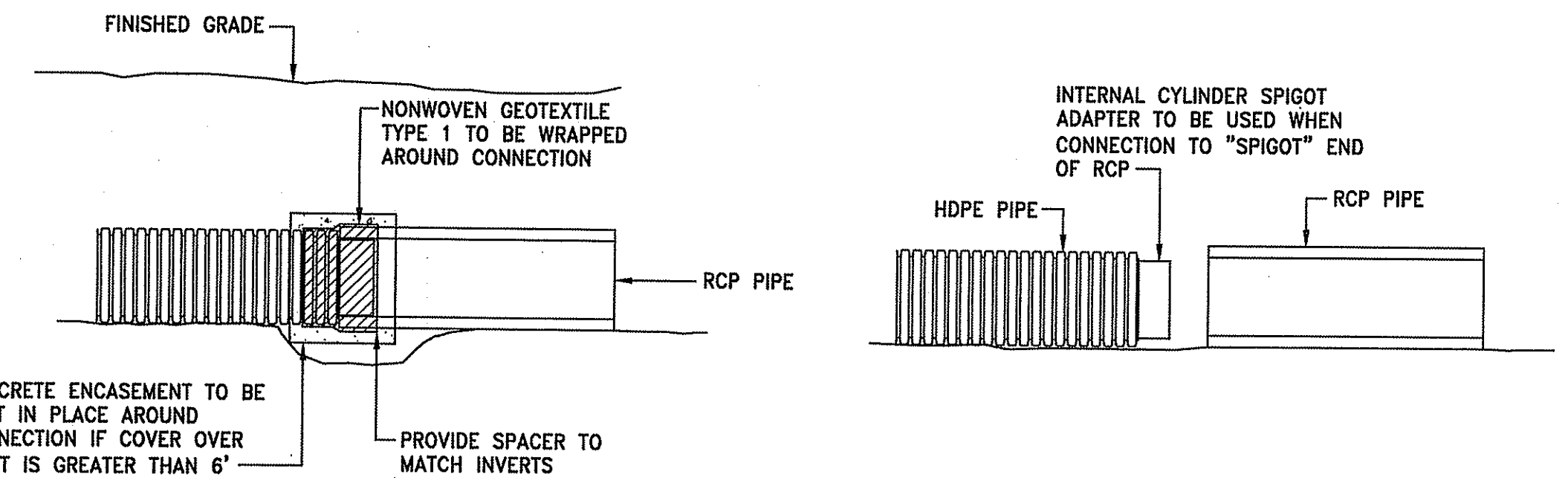
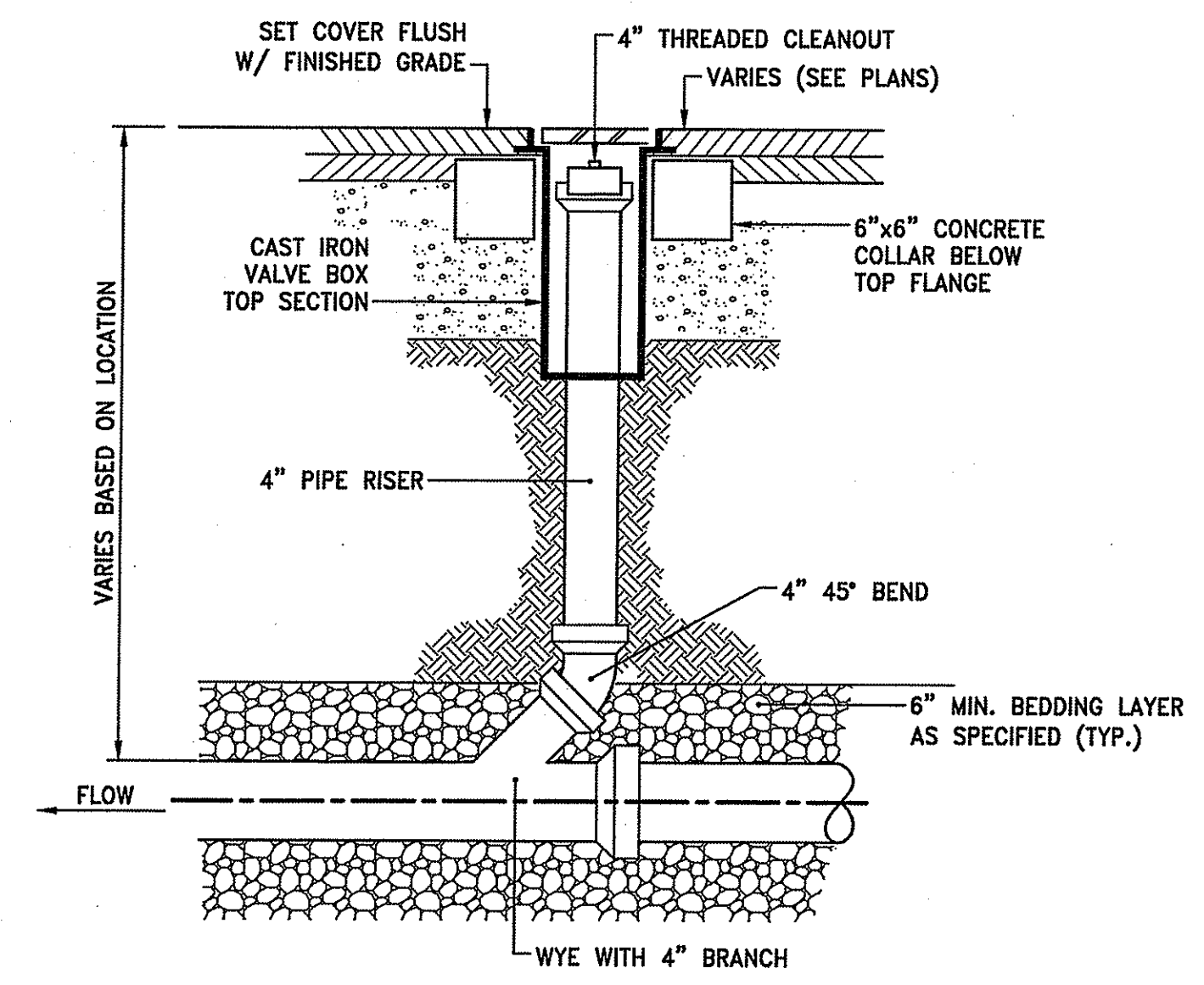
DRAWING NO.: C6.3

SHEET NO. 14 OF 19



- NOTES:**
- WHERE THE DISTANCE BETWEEN THE SAWCUT AND EDGE OF PAVEMENT IS 3' OR LESS, THE CONTRACTOR SHALL REPLACE THE PAVEMENT FROM THE TRENCH EDGE TO THE EXISTING EDGE OF PAVEMENT.
  - 3/4" DIA. CRUSHED STONE SHALL BE USED AS BEDDING WHERE TRENCH IS BELOW THE GROUND WATER TABLE.

**GRAVITY SEWER/DRAIN TRENCH DETAIL**  
 NOT TO SCALE

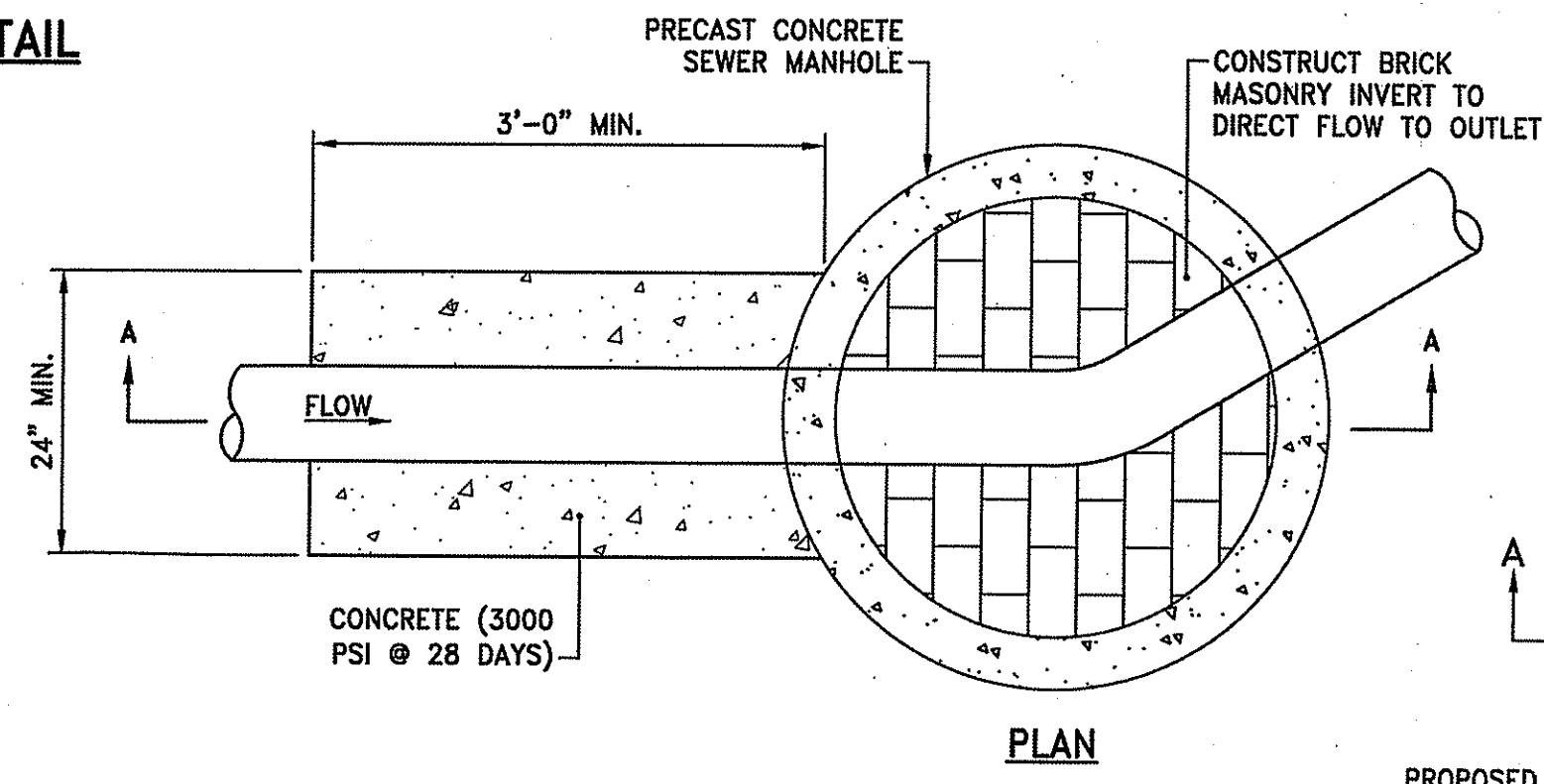


- NOTES:**
- INTERNAL CYLINDER ADAPTER TO BE WELDED TO HDPE, OUTSIDE DIAMETER TO BE INSERTED INTO INSIDE DIAMETER OF CONCRETE PIPE.
  - NON-WOVEN GEOTEXTILE TO BE WRAPPED AROUND CONNECTION WITH FULL SEAM OVERLAP TO PROVIDE FULL PROTECTION FROM SOIL INTRUSION.
  - CONNECTION TO BE MADE IN ACCORDANCE WITH PIPE MANUFACTURER'S REQUIREMENTS.
  - INTERNAL CYLINDER SPIGOT ADAPTER NOT REQUIRED IF HDPE IS CONNECTION TO "BELL" END OF RCP.

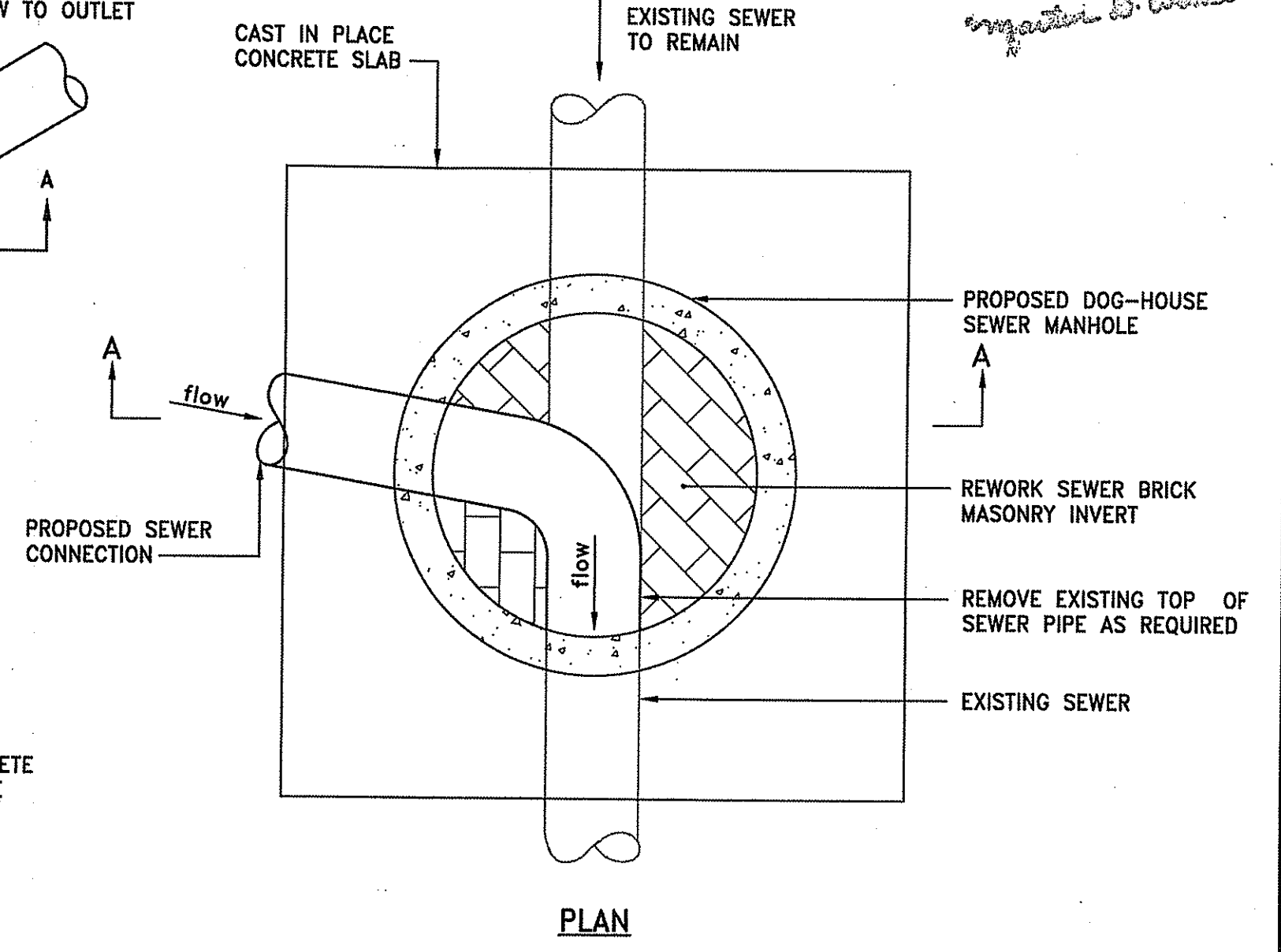
**HDPE/RCP PIPE JOINT**  
 NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
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**CLEANOUT DETAIL**  
 NOT TO SCALE

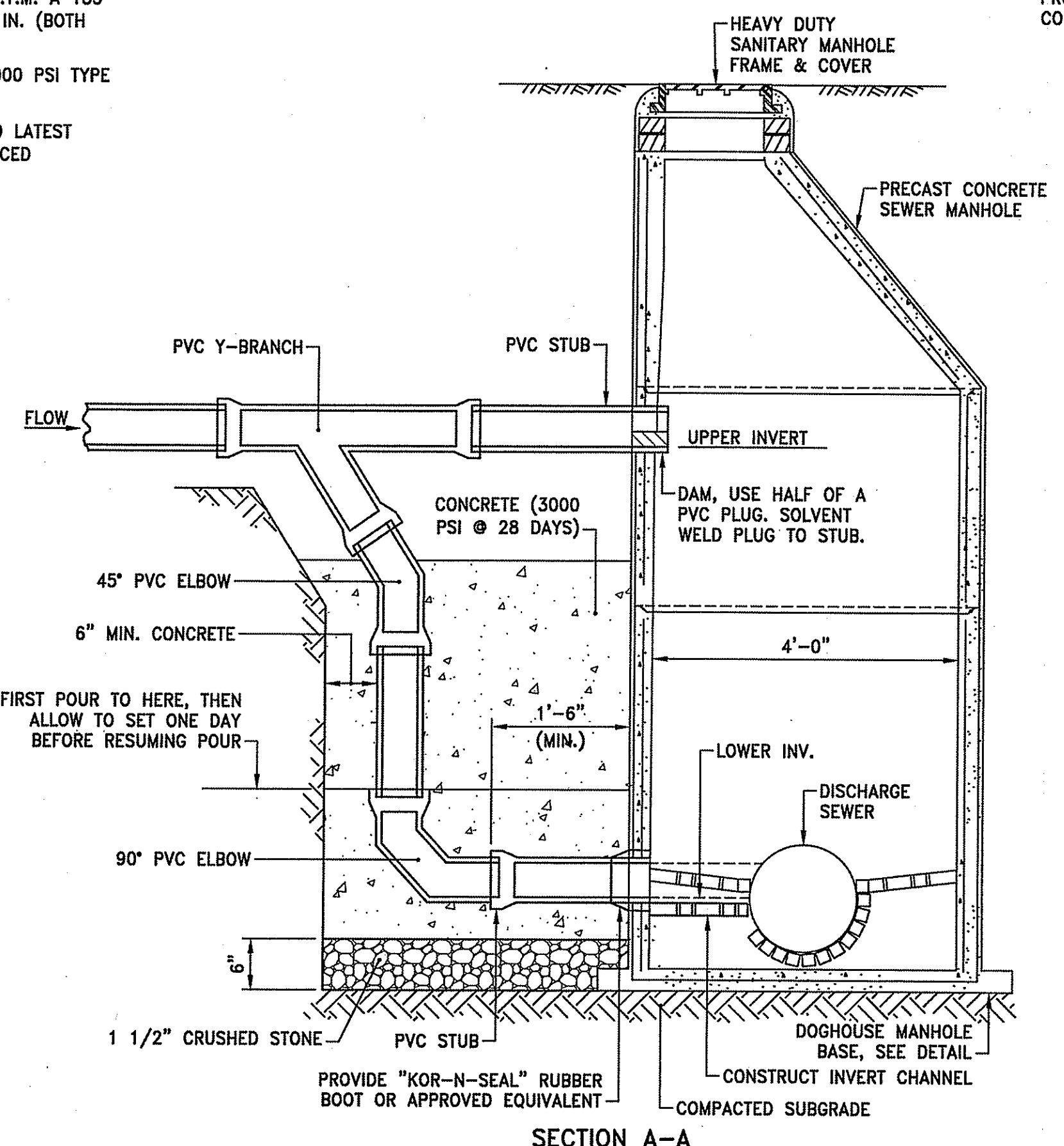


**PLAN**



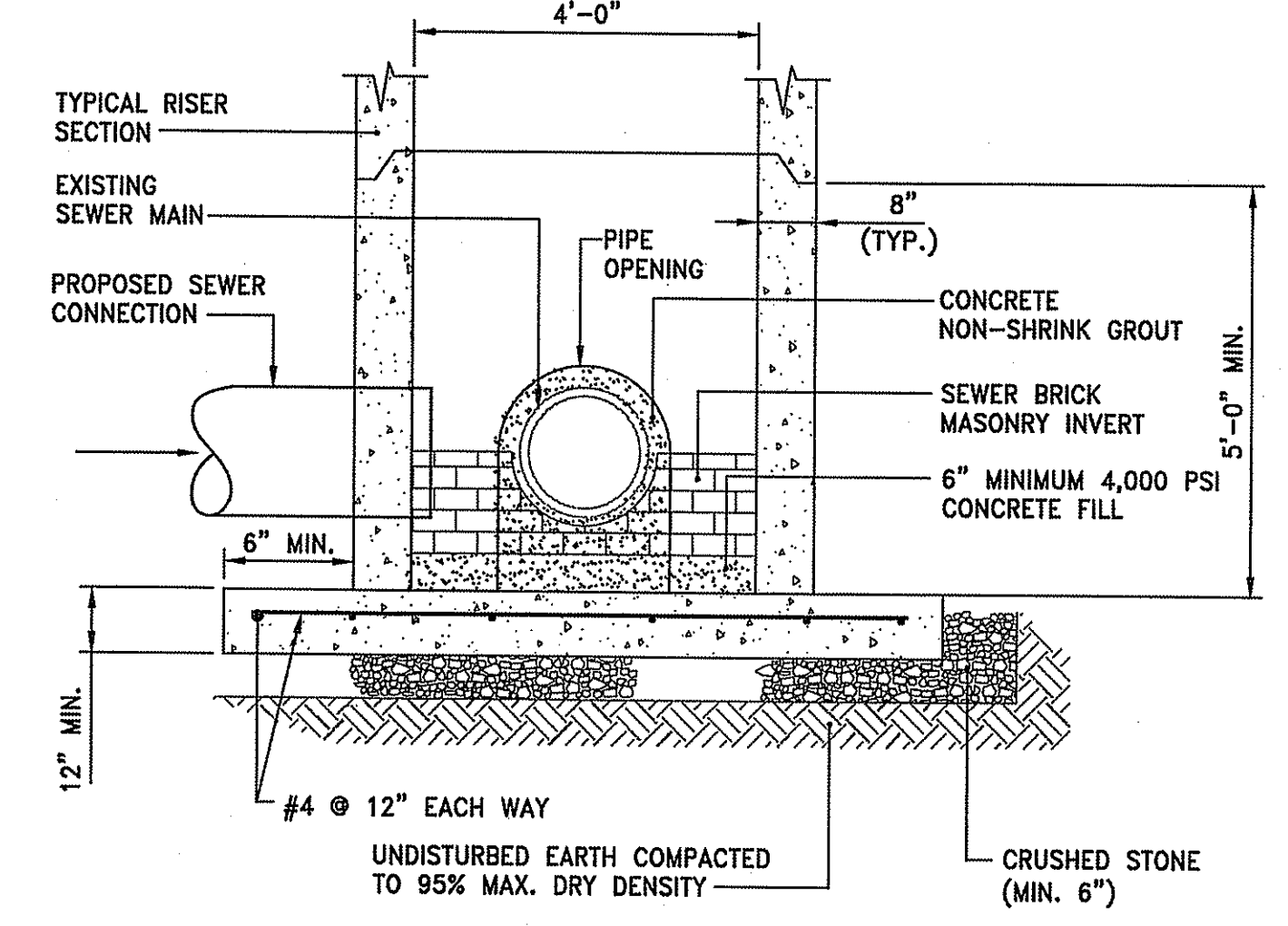
**PLAN**

- GENERAL NOTES:**
- REINFORCING STEEL CONFORMS TO LATEST A.S.T.M. A 185 SPEC. 0.12 SQ. IN./LINEAL FT. AND 0.12 SQ. IN. (BOTH WAYS) BASE BOTTOM
  - CONC. MINIMUM COMPRESSIVE STRENGTH = 4000 PSI TYPE III CEMENT.
  - MANHOLE DESIGN SPECIFICATIONS CONFORM TO LATEST A.S.T.M. C 478 SPEC. FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS".
  - ONE POUR MONOLITHIC BASE SECTION.



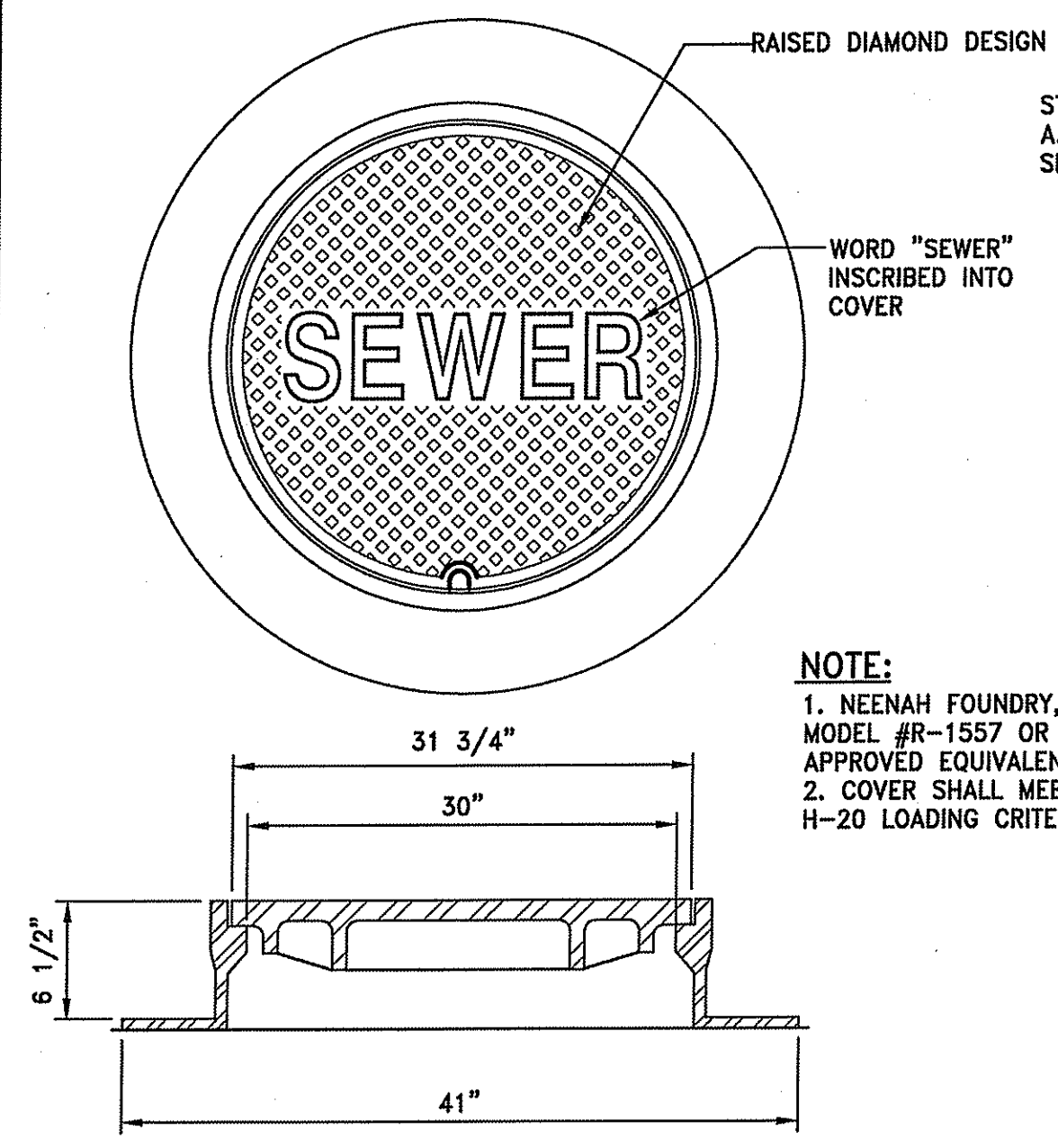
**SECTION A-A**

**OUTSIDE DROP MANHOLE DETAIL**  
 NOT TO SCALE

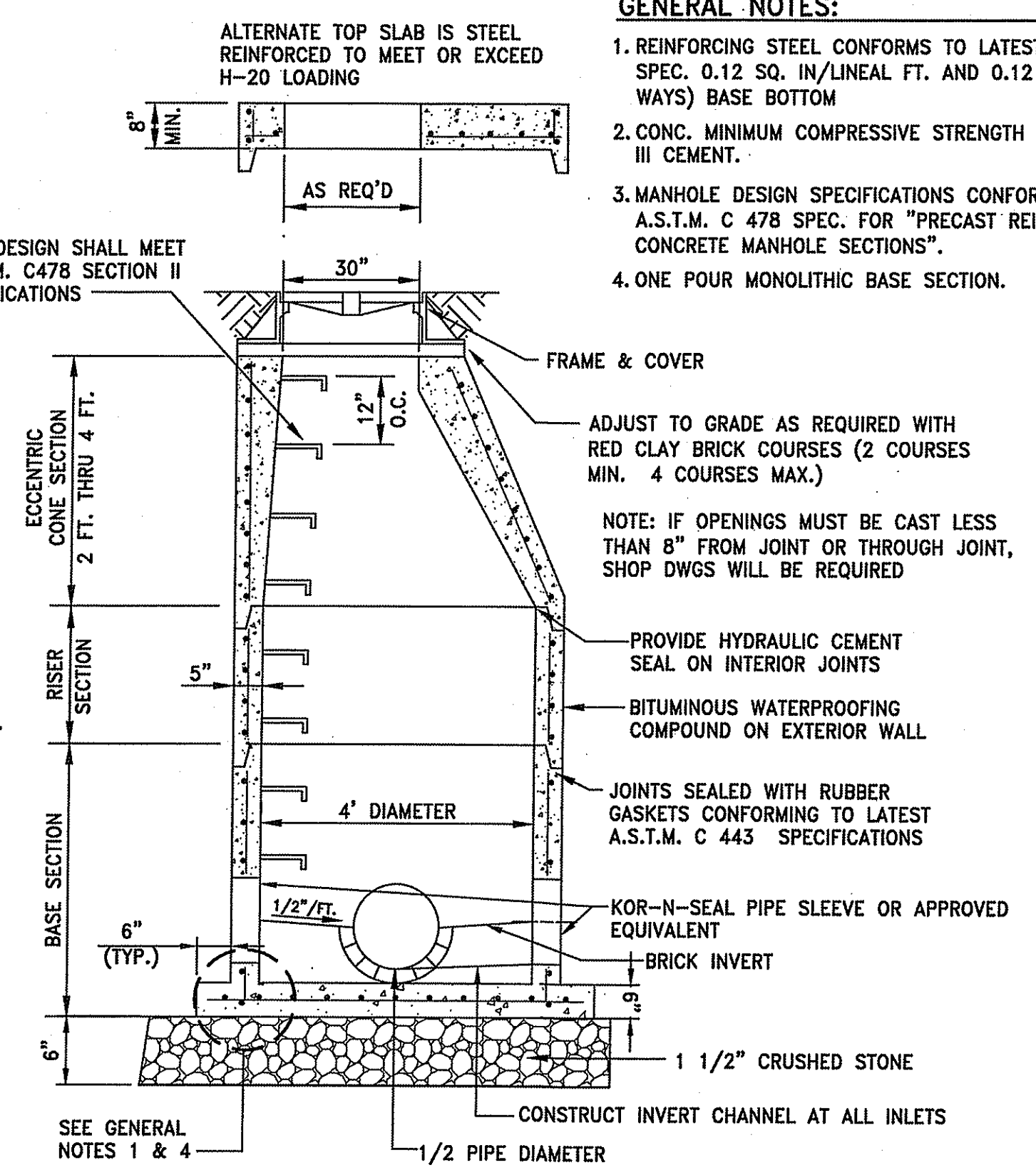


**SECTION A-A**

**DOG-HOUSE MANHOLE BASE**  
 NOT TO SCALE



**SANITARY MANHOLE FRAME & COVER**

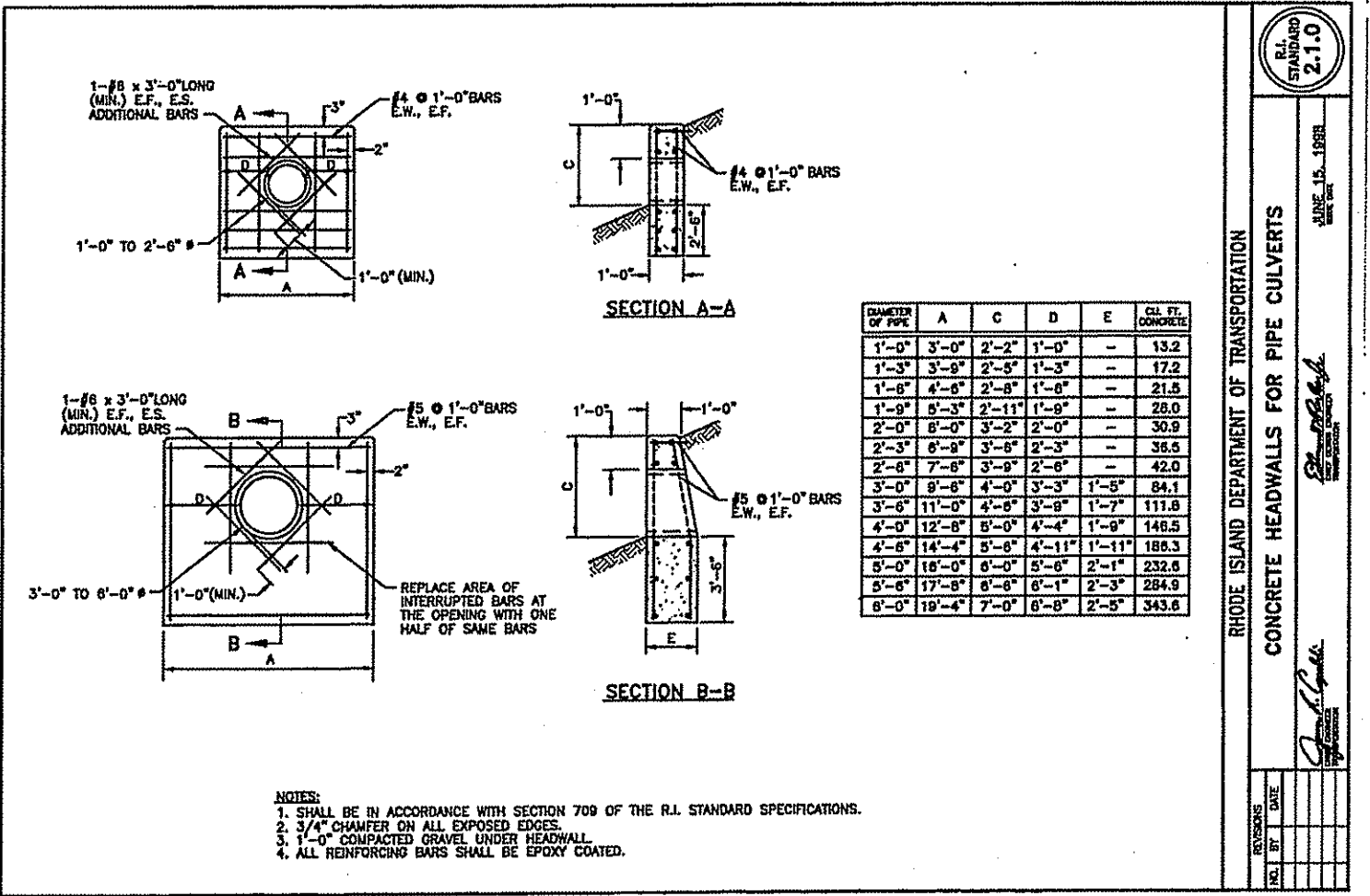
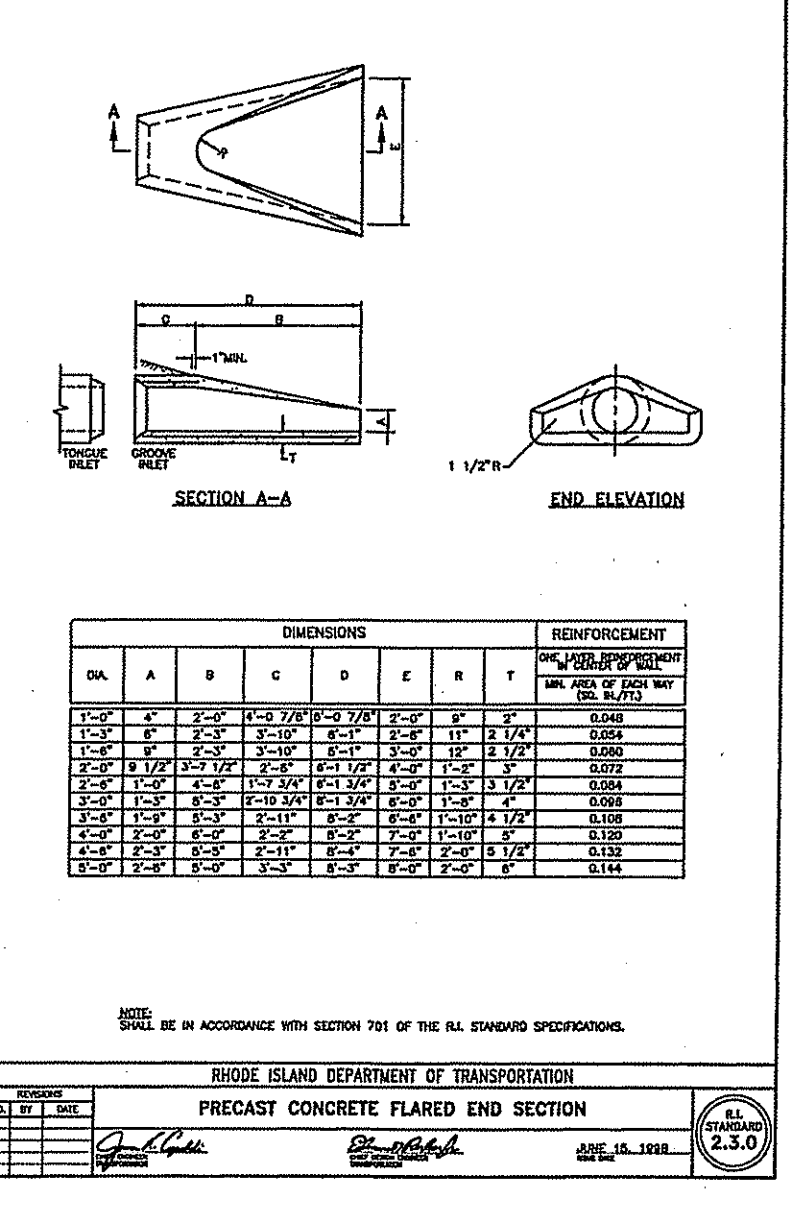
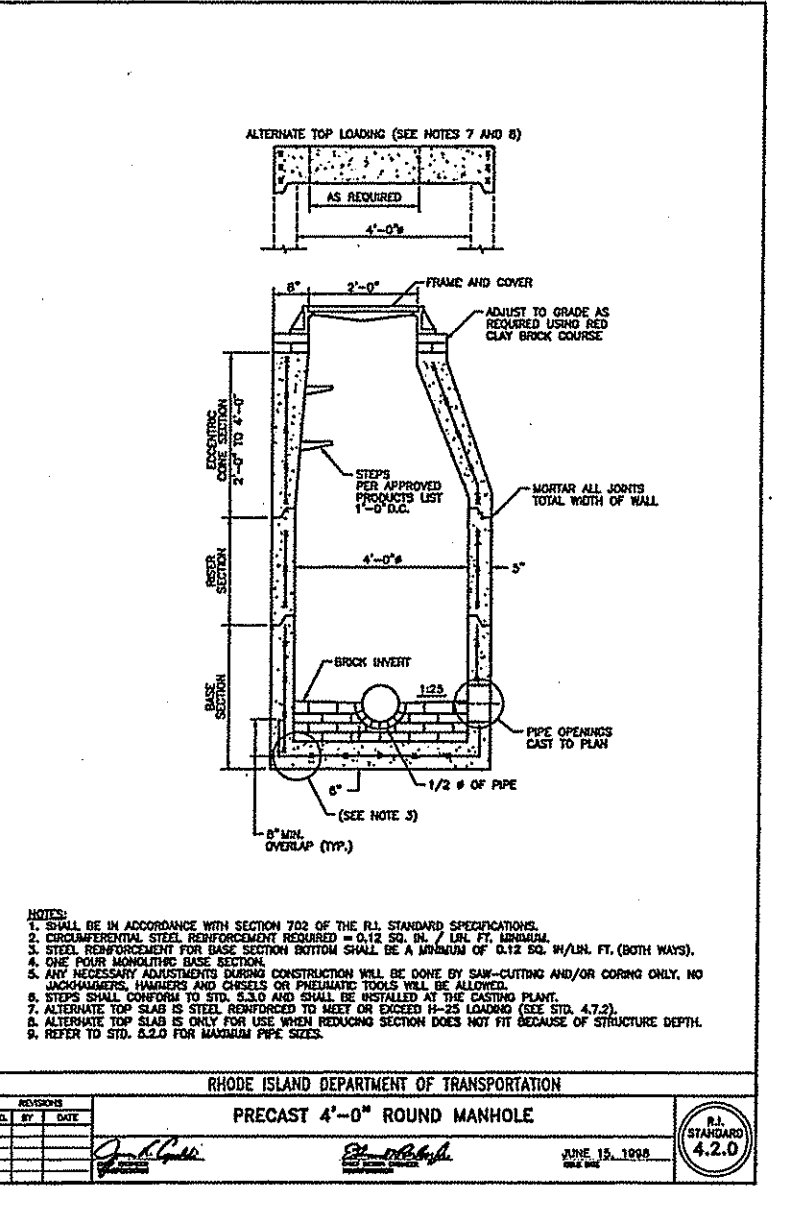
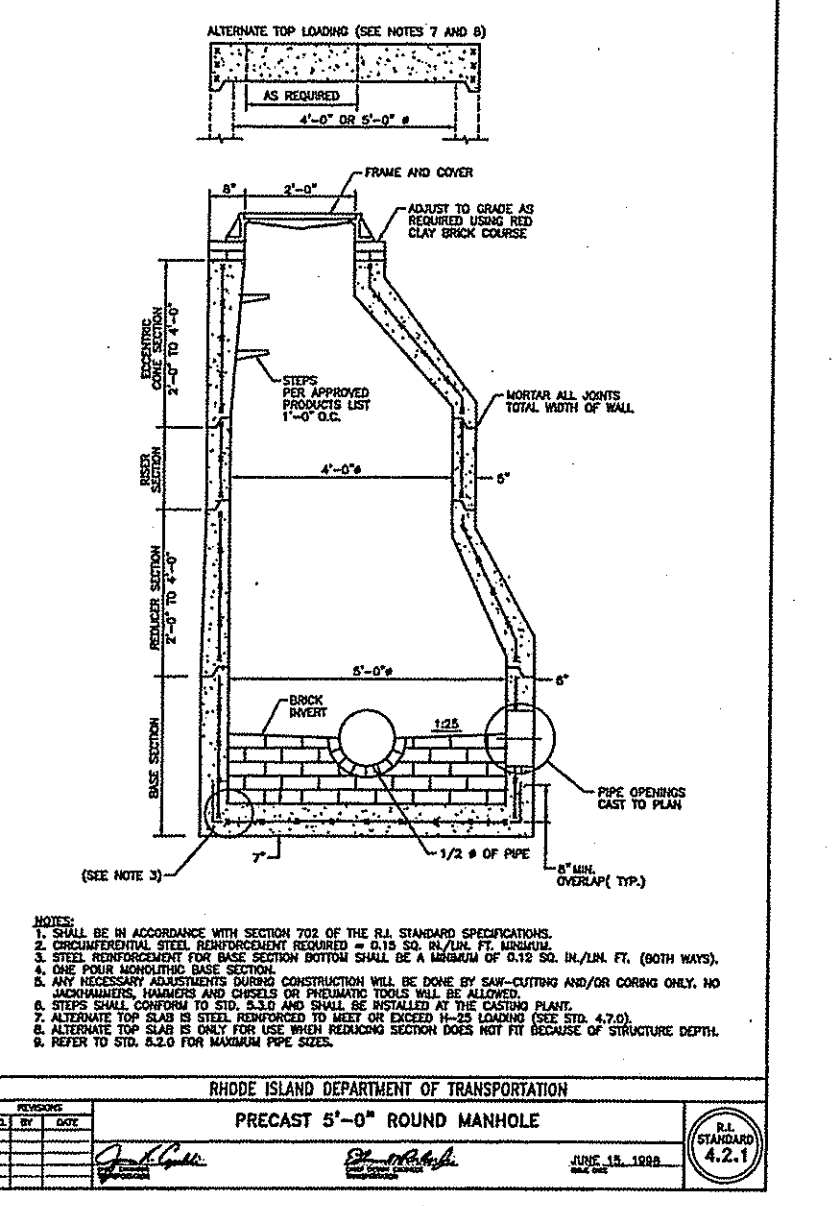
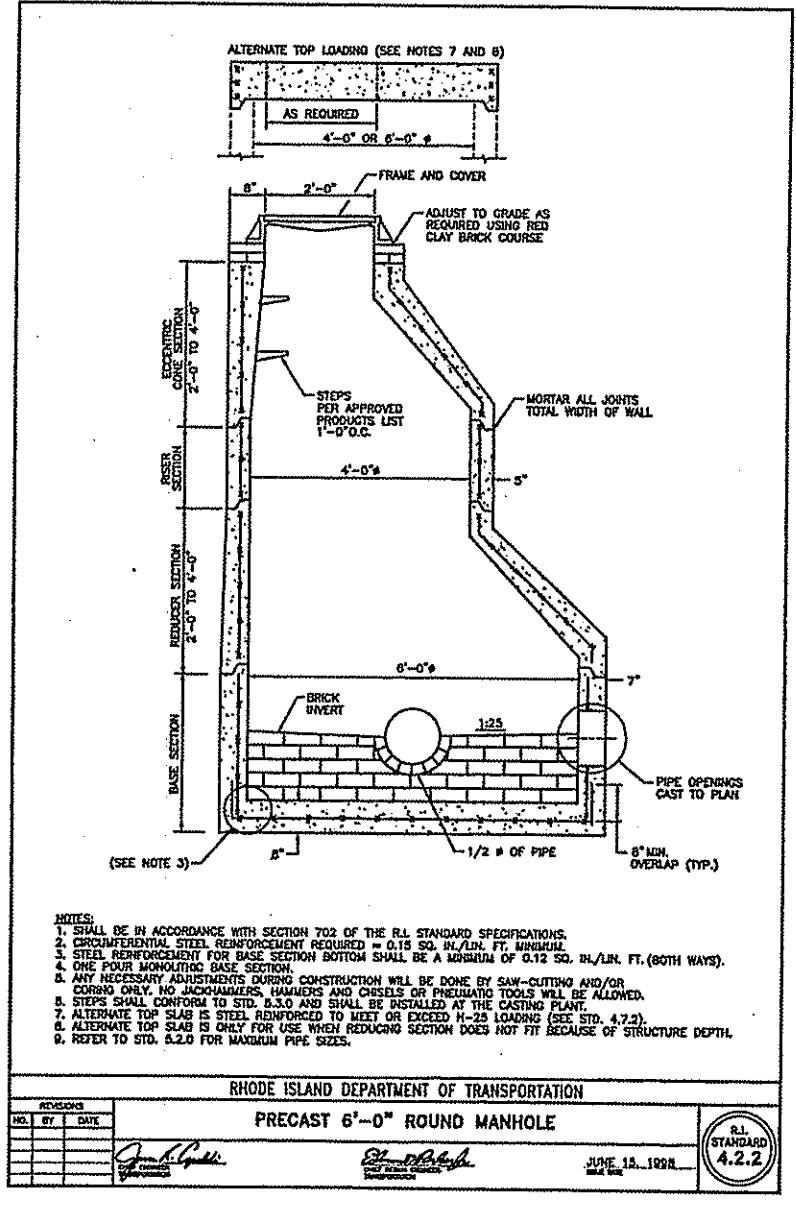
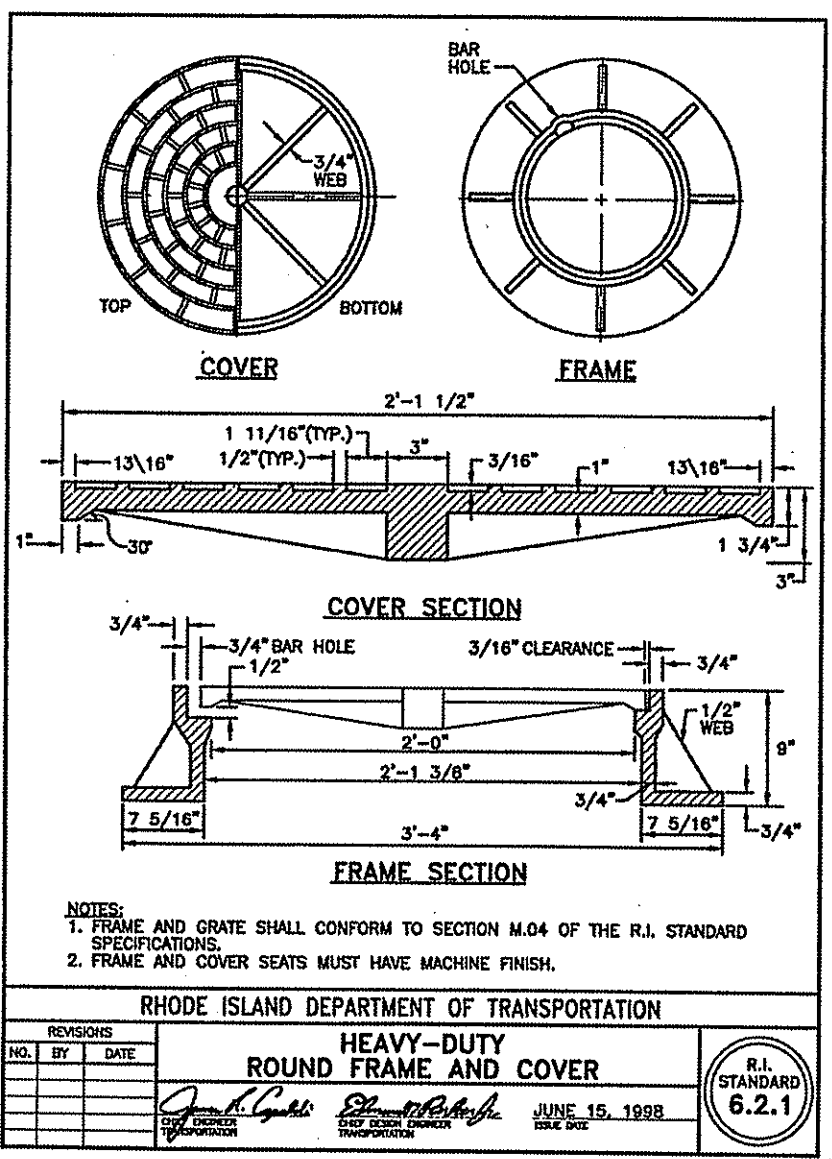


**TYPICAL SEWER MANHOLE DETAIL**  
 NOT TO SCALE

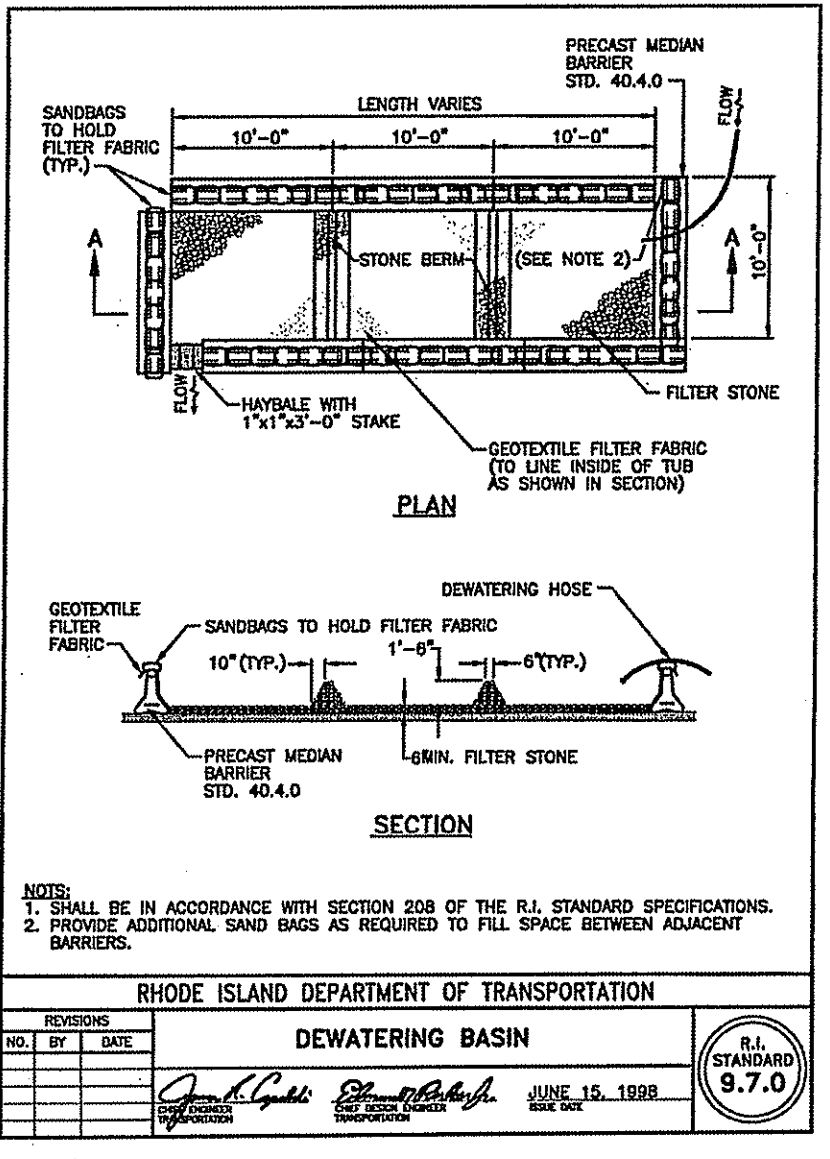
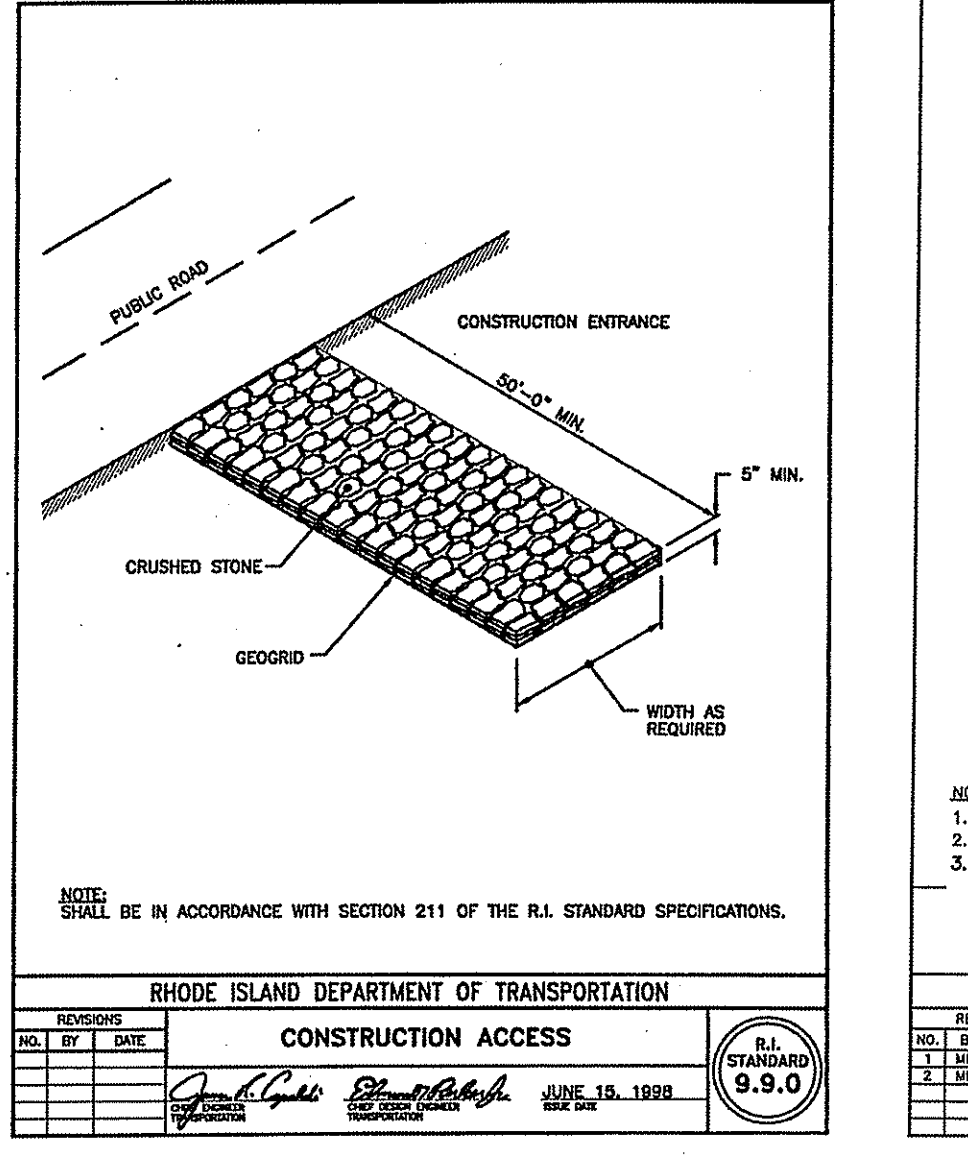
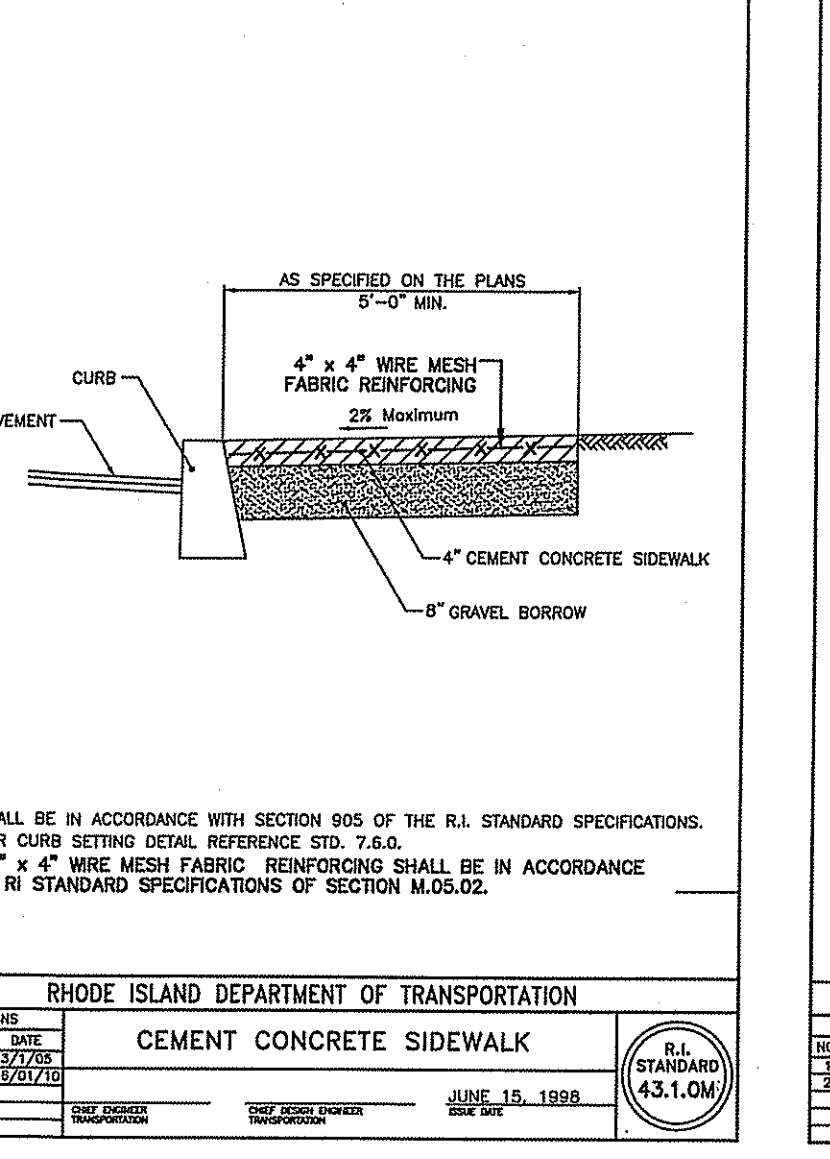
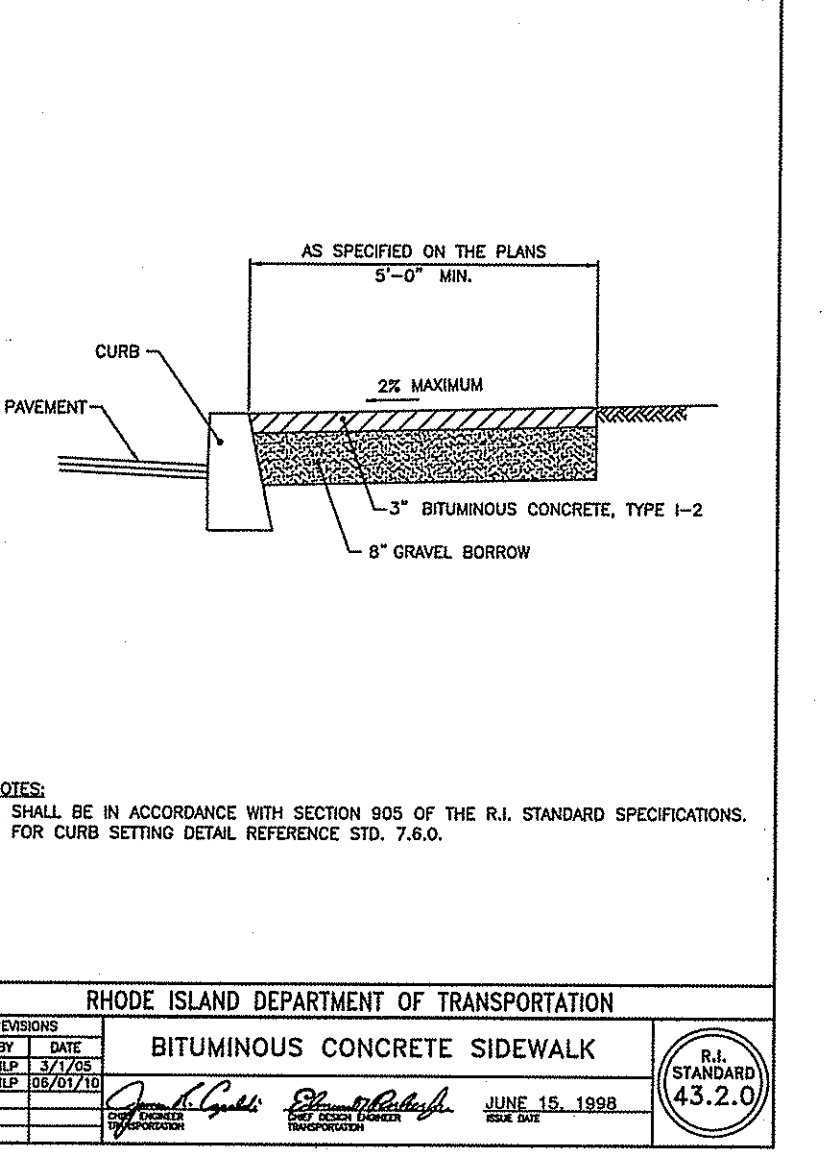
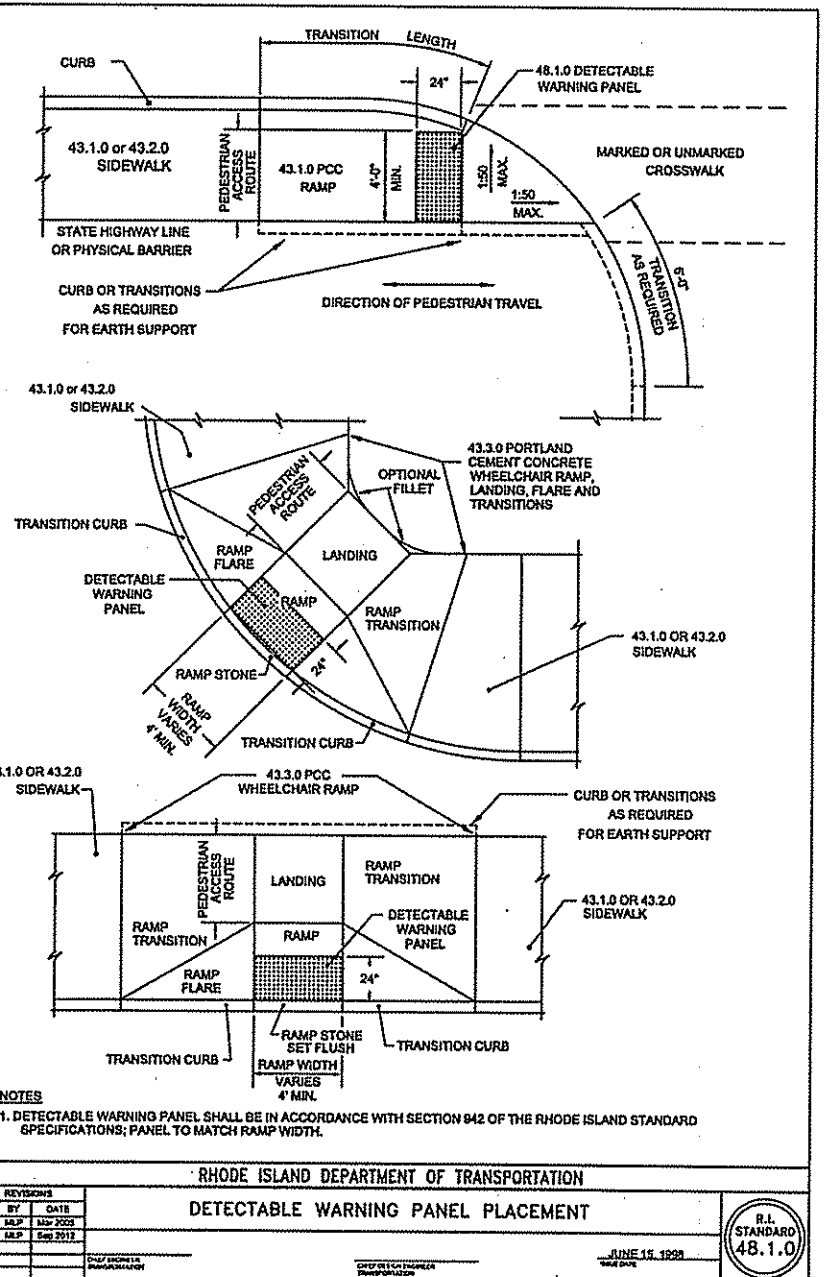
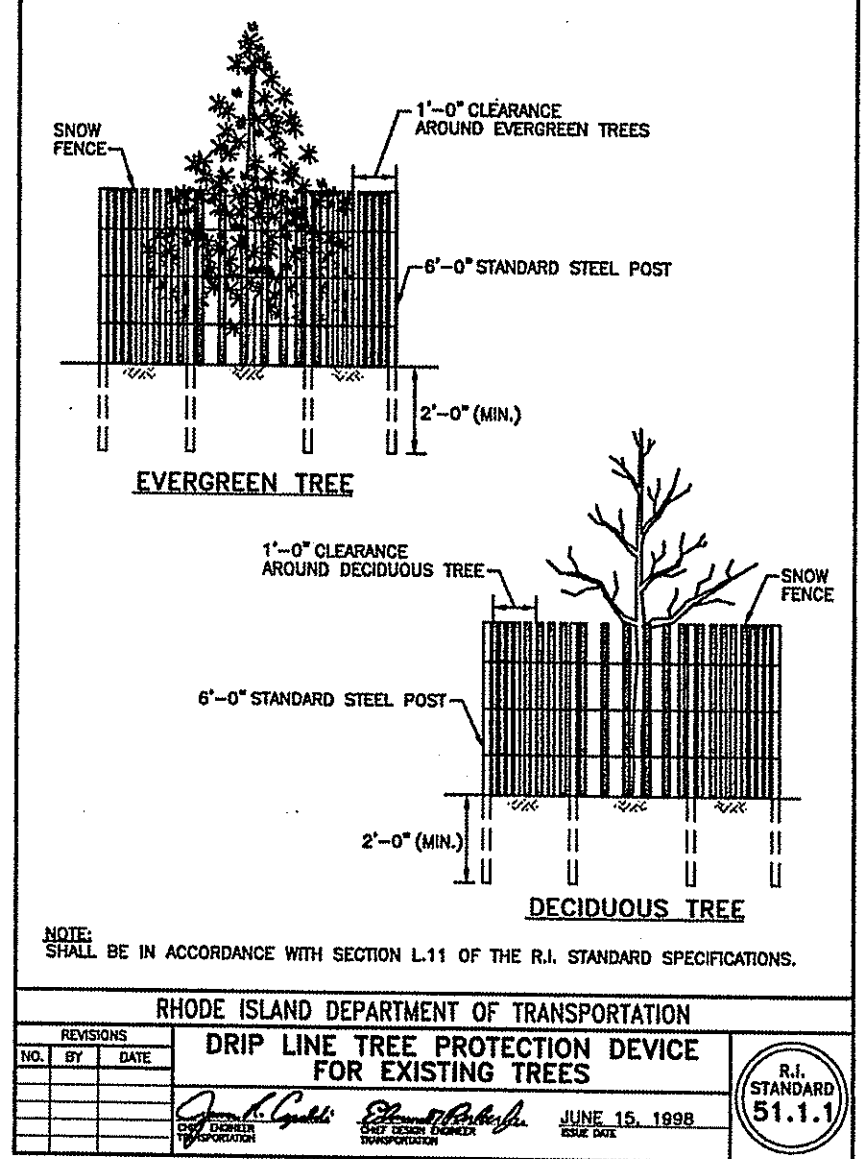
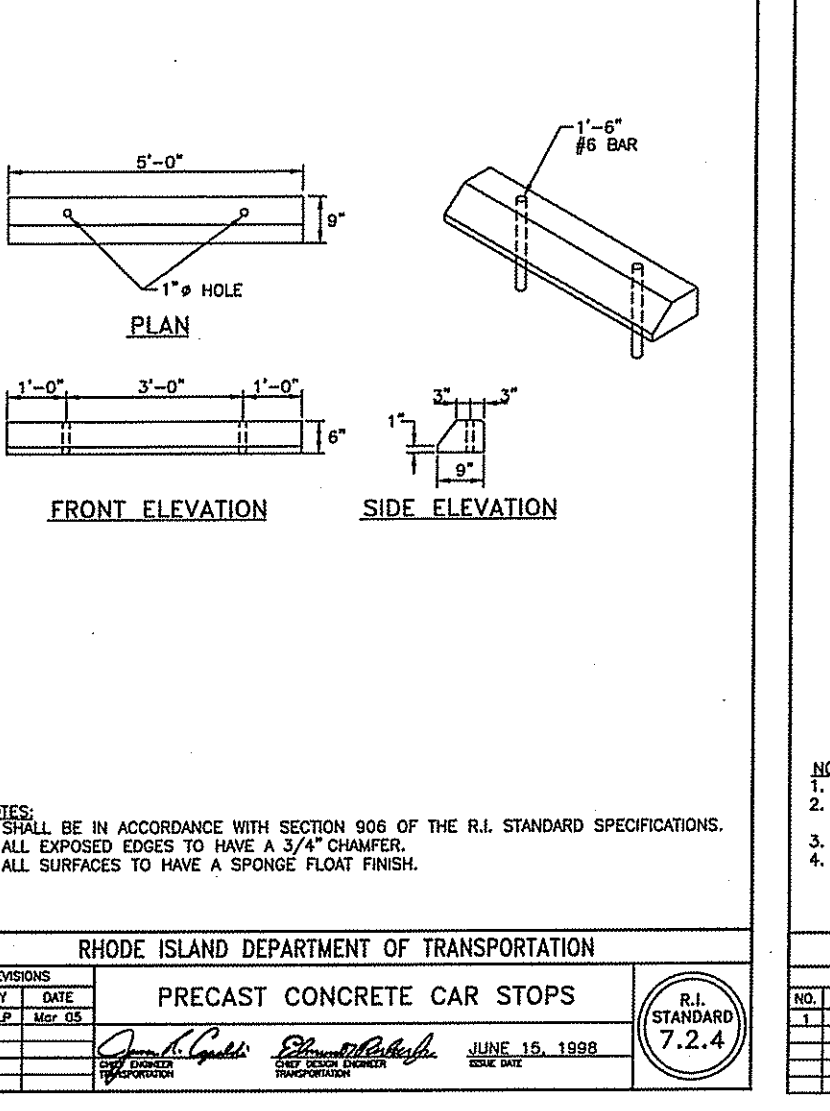
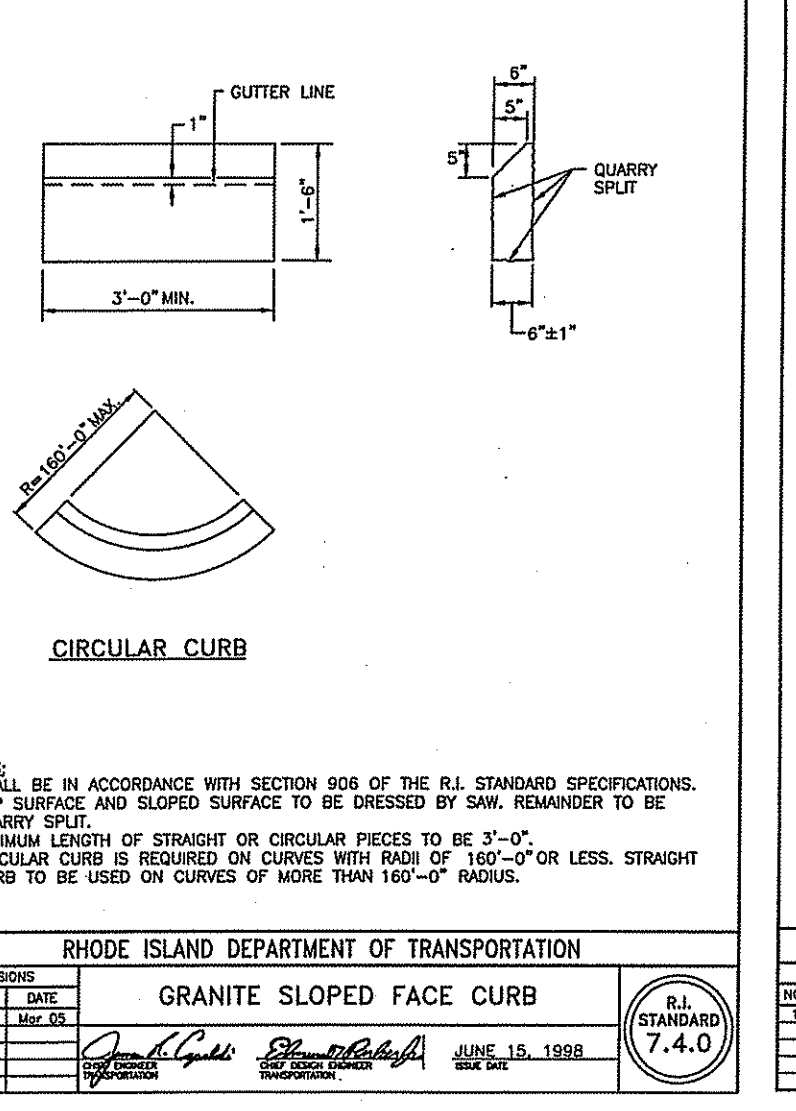
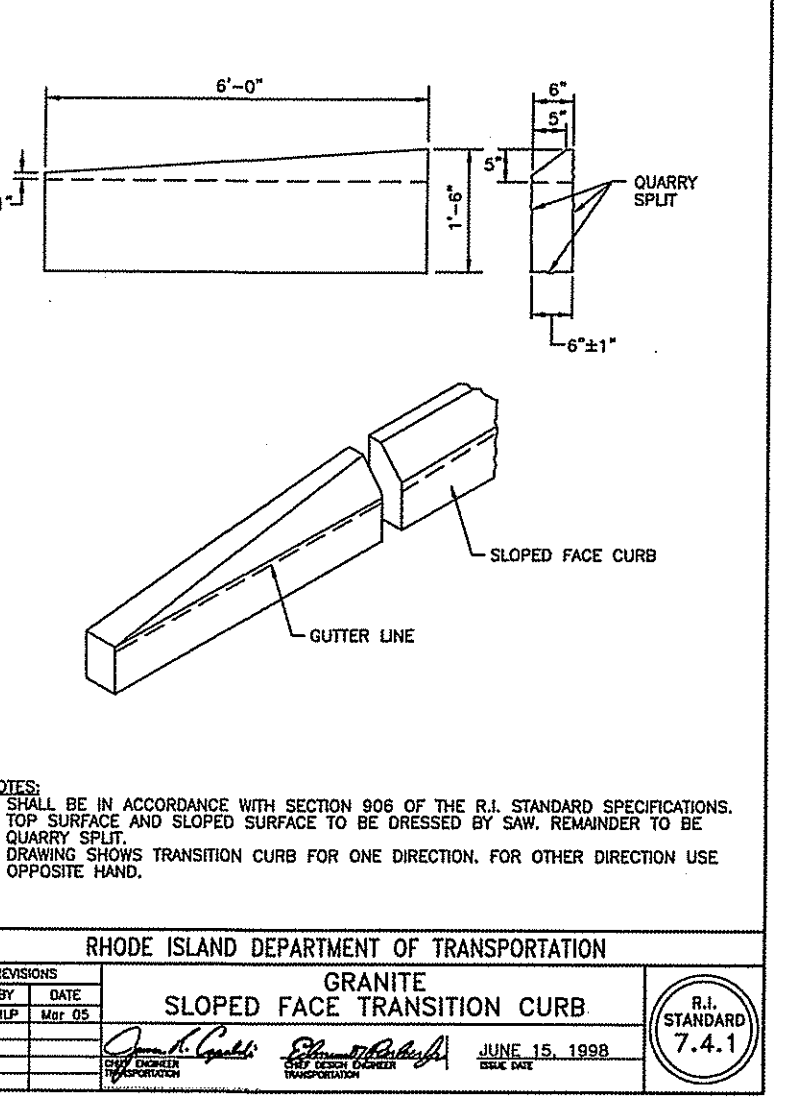
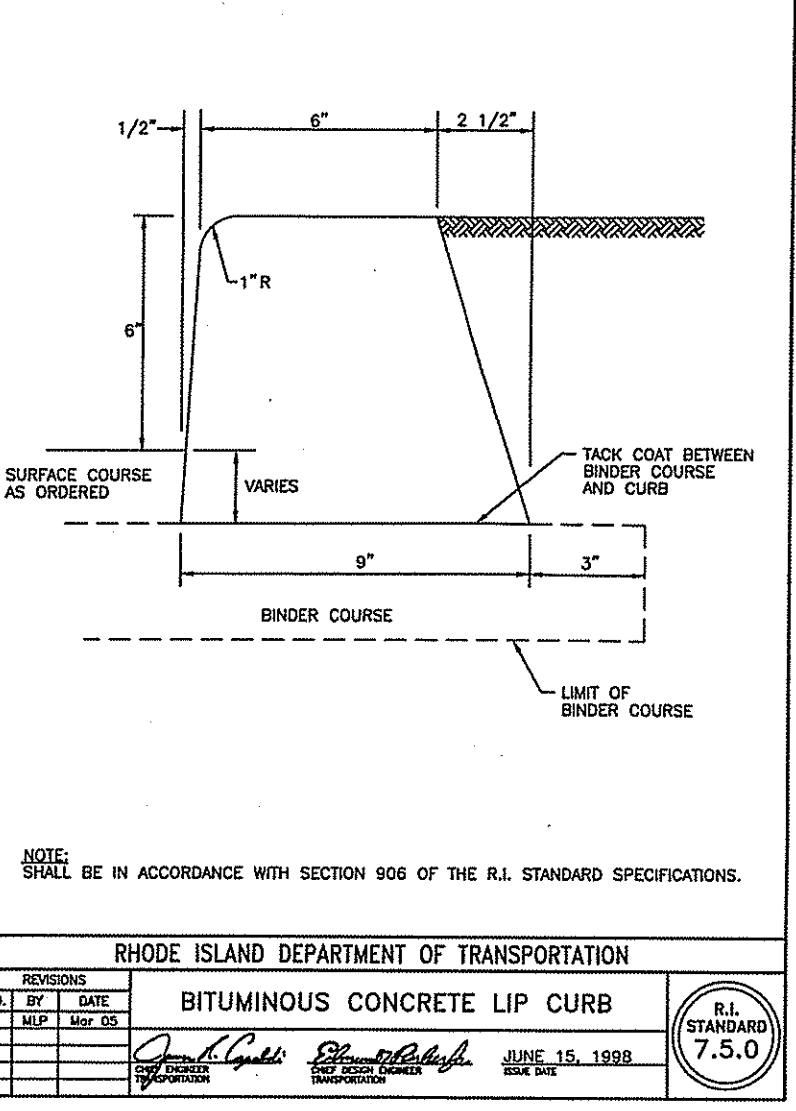
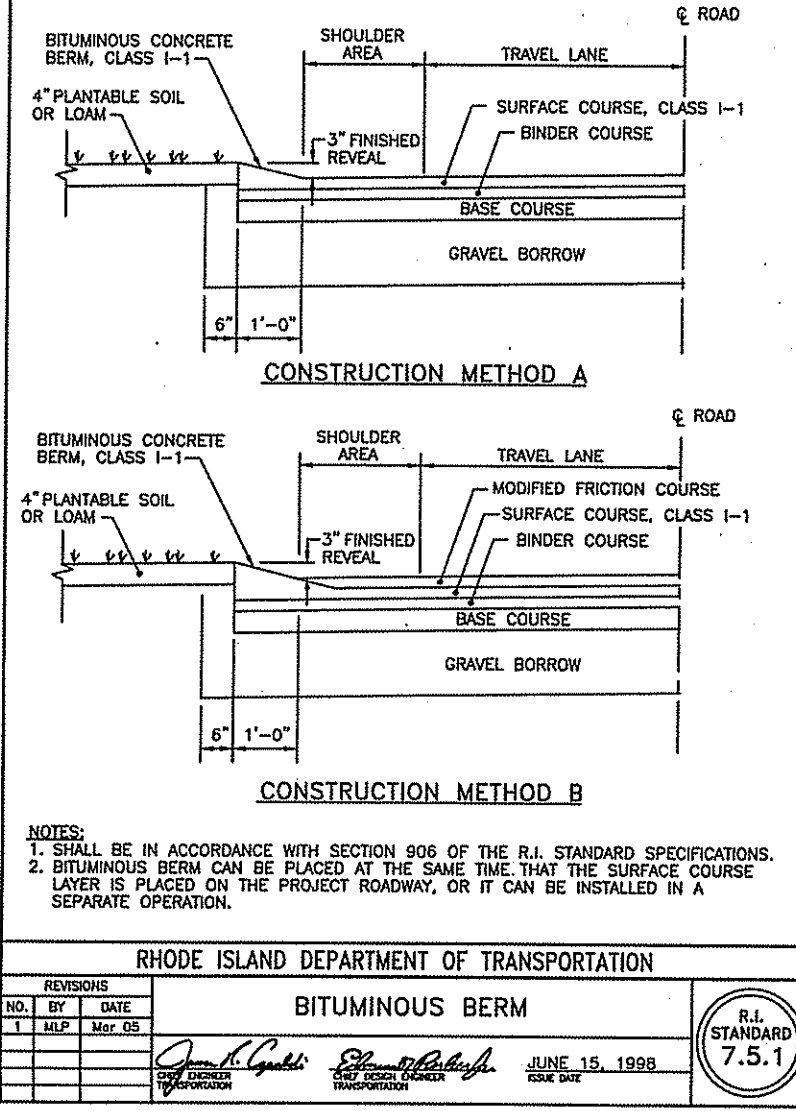
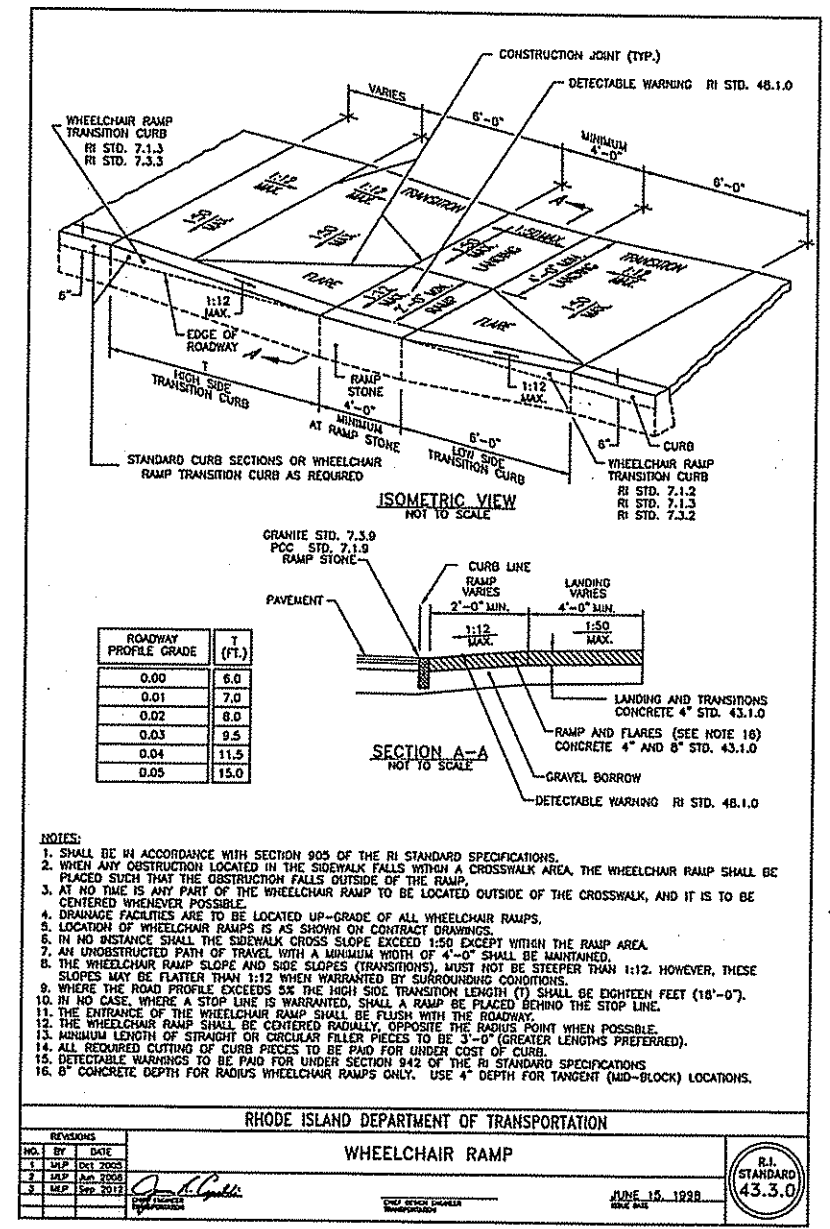
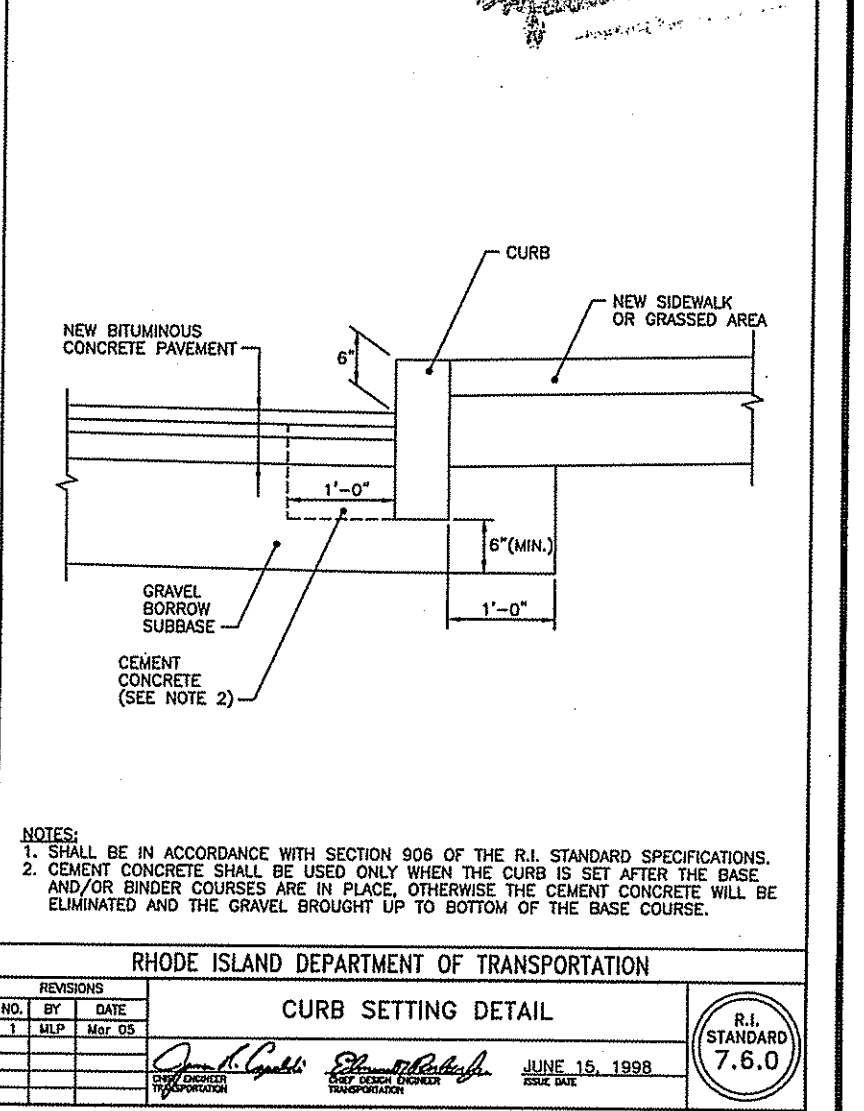
- NOTE:**
- NEENAH FOUNDRY, INC. MODEL #R-1557 OR APPROVED EQUIVALENT
  - COVER SHALL MEET H-20 LOADING CRITERIA

NO.	DATE	DESCRIPTION
1	5/2/2014	DEM COMMENTS
	MAY 2 2014	

PROJECT NO.: 13109.00  
 DATE: MARCH 3, 2014  
 SCALE: NOT TO SCALE  
 DESIGNED BY: RJS  
 CHECKED BY: DLP  
 DRAWN BY: AKL  
 APPROVED BY: JPS  
 DRAWING TITLE:



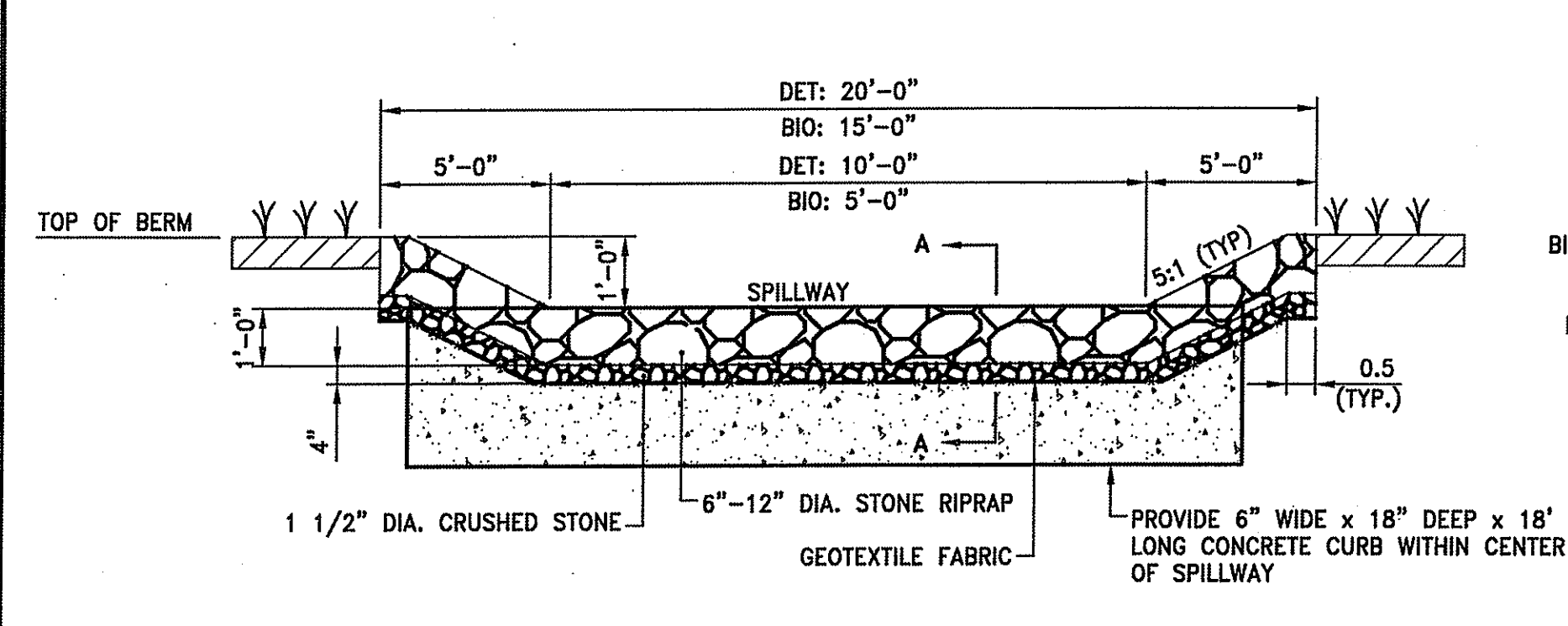
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 FILE # 14-0042  
 DATED JUN 2 2014  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE



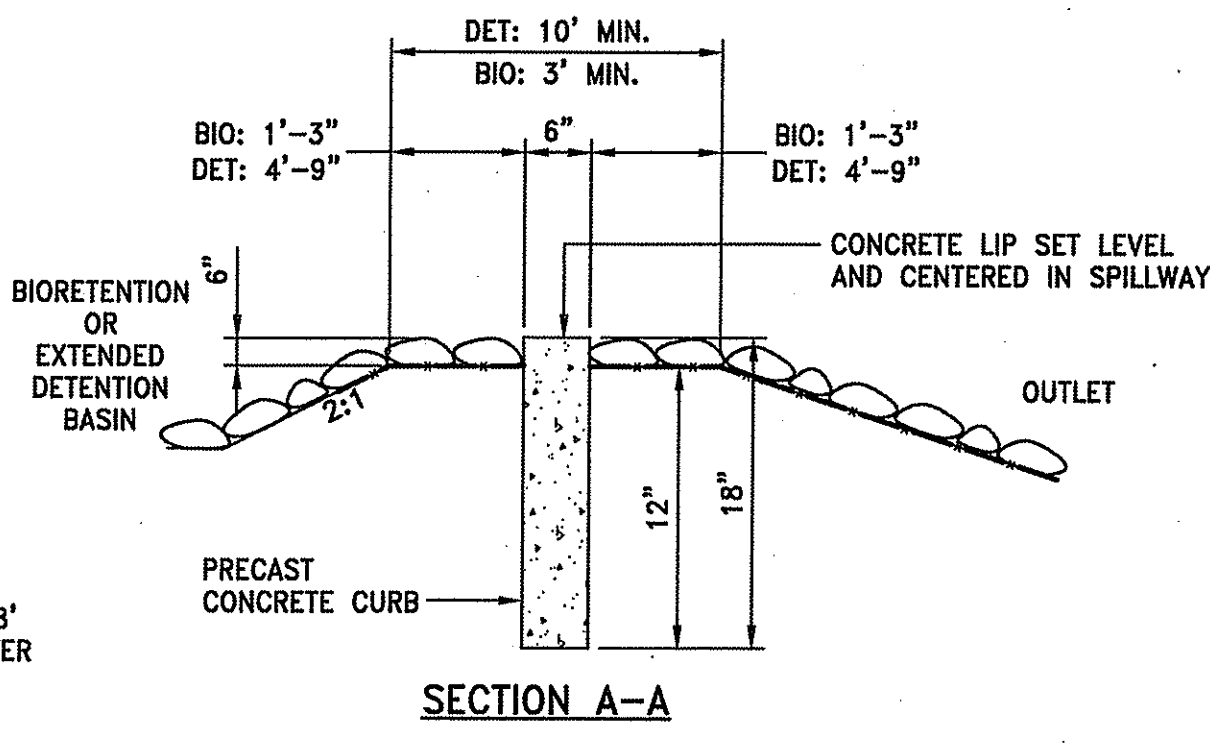
REVISIONS	DATE	DEM. COMMENTS
1	5/2/2014	
2	5/2/2014	
3	5/2/2014	
4	5/2/2014	
5	5/2/2014	
6	5/2/2014	
7	5/2/2014	
8	5/2/2014	
9	5/2/2014	
10	5/2/2014	

PROJECT NO.: 13109.00  
DATE: MARCH 3, 2014  
SCALE: NOT TO SCALE  
DESIGNED BY: RJS  
CHECKED BY: DLP  
DRAWN BY: AKL  
APPROVED BY: JPS  
DRAWING TITLE:

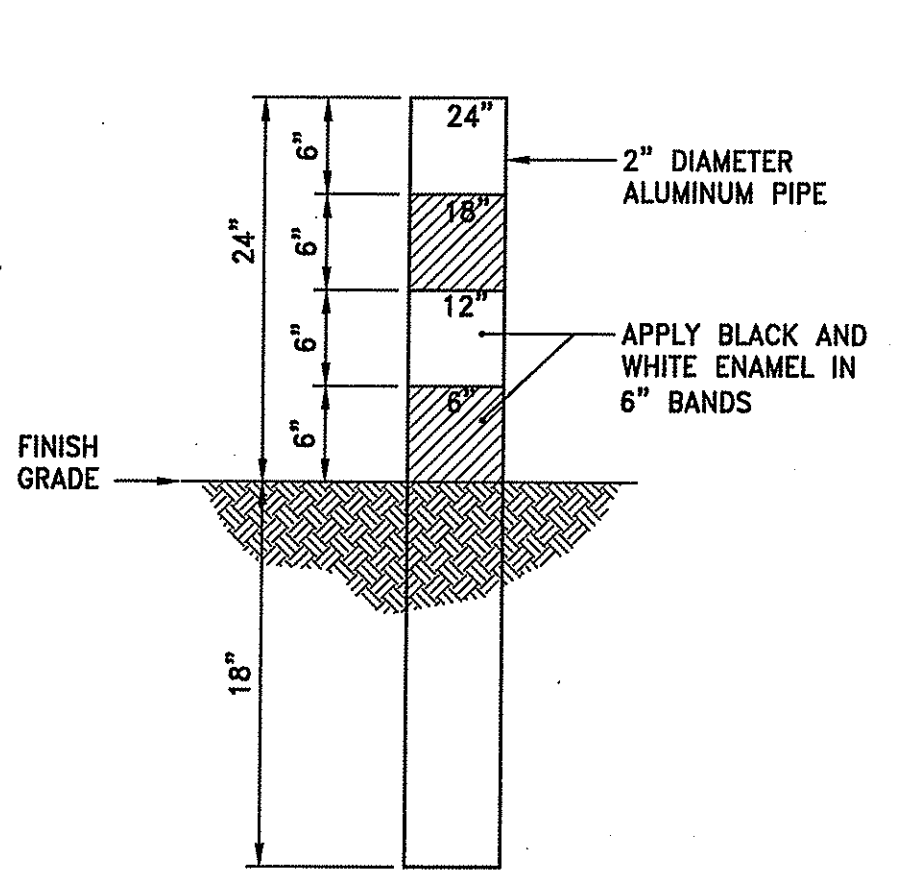
DETAILS 5



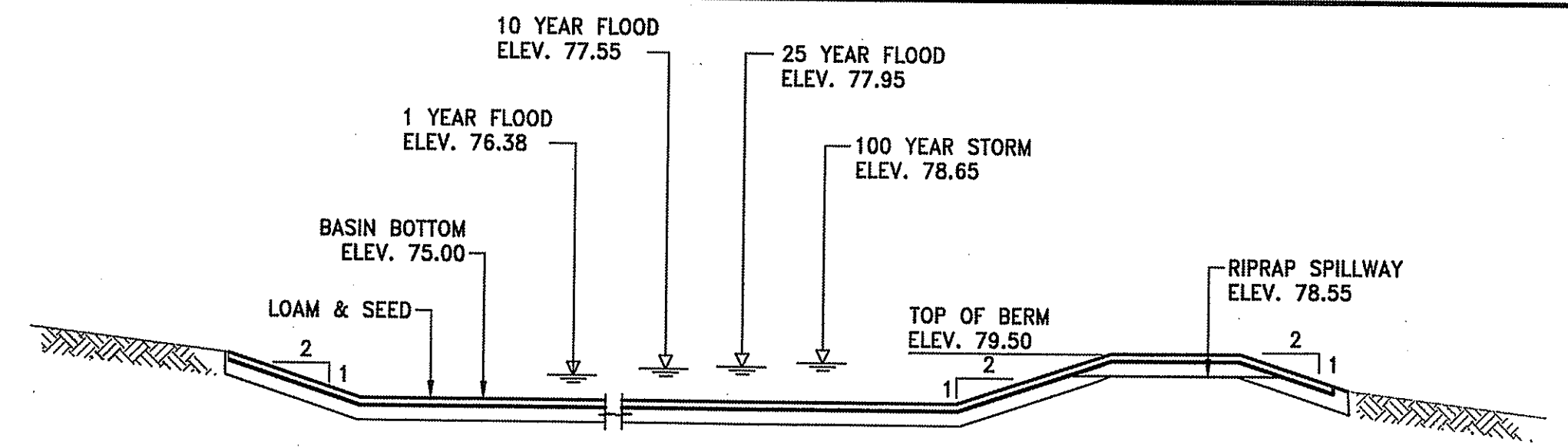
**RIPRAP SPILLWAY DETAIL**  
NOT TO SCALE



**SECTION A-A**  
NOTE:  
CONTRACTOR SHALL FILL VOIDS BETWEEN CURB SECTIONS WITH MORTAR  
DET = DETENTION BASIN  
BIO = BIORETENTION AREA

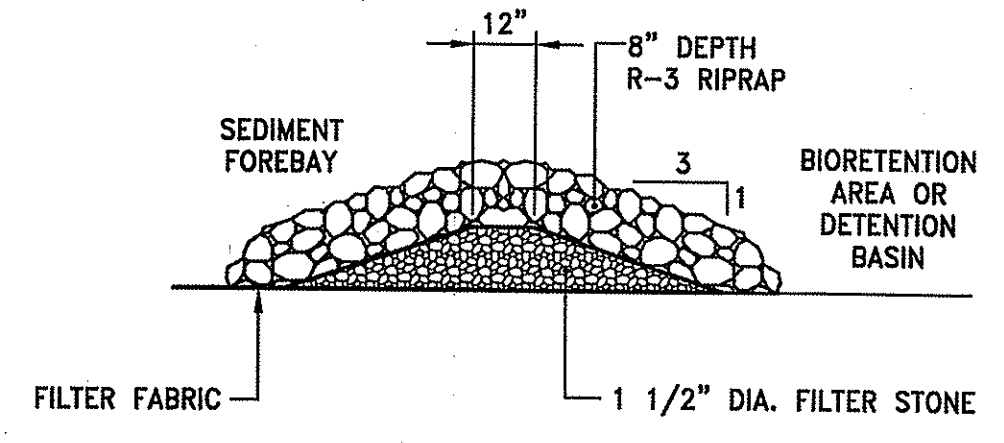


**SEDIMENT MARKER DETAIL**  
NOT TO SCALE



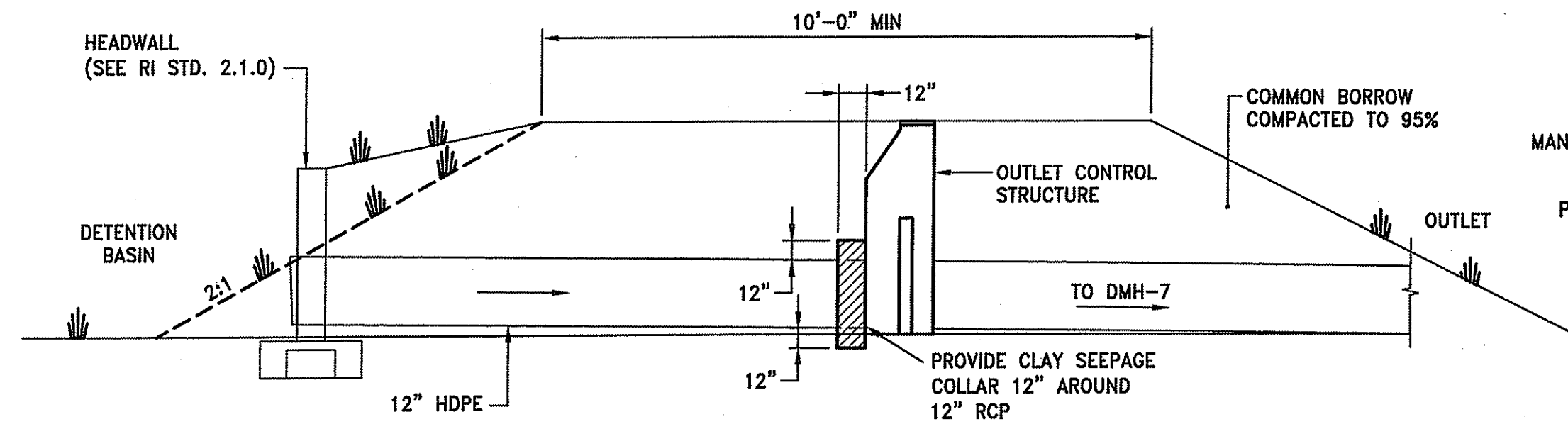
**DETENTION BASIN SIDE SLOPES AND BOTTOM**  
THE SEED MIXTURE AND RATE OF APPLICATION SHALL BE AS FOLLOWS:

	LBS/ACRE	LBS/1000 FT <sup>2</sup>
RED FESCUE	75	1.75
COLONIAL BENTGRASS, 'EXETER'	5	.11
PERENNIAL RYEGRASS	5	.11
BIRDSFOOT TREFOIL, 'EMPIRE'	15	.35



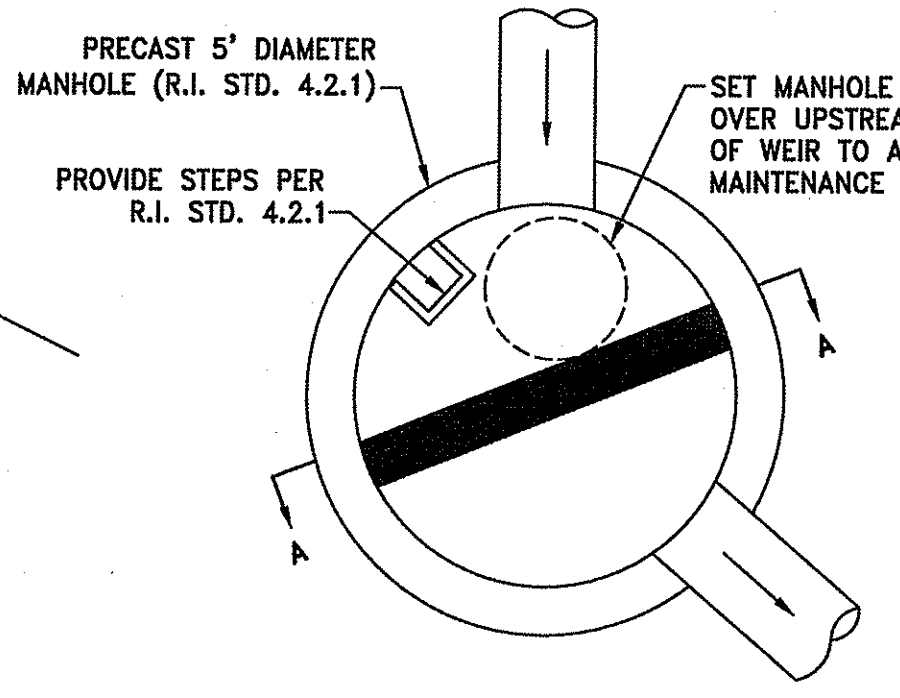
**SEDIMENT FOREBAY CHECK DAM**  
NOT TO SCALE

**DETENTION BASIN SECTION**  
NOT TO SCALE

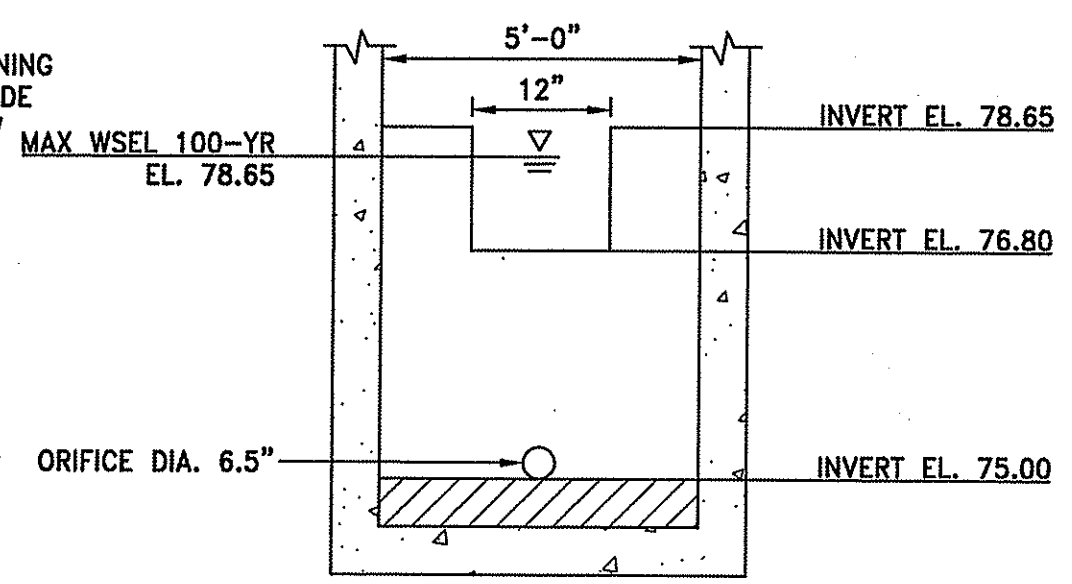


- NOTES:**
1. DETENTION BASIN BERM SHALL BE CONSTRUCTED WITH COMMON BORROW PLACED IN 12" LIFTS AND COMPACTED TO 95% TO FINISH GRADE.
  2. REMOVE ALL EXISTING TOPSOIL AND ORGANIC MATERIAL PRIOR TO CONSTRUCTING DETENTION BASIN BERM.
  3. COMMON BORROW SHALL EXTEND A MINIMUM OF 12" BELOW DETENTION BASIN BOTTOM.

**DETENTION BASIN BERM SECTION AT OUTLET**  
NOT TO SCALE

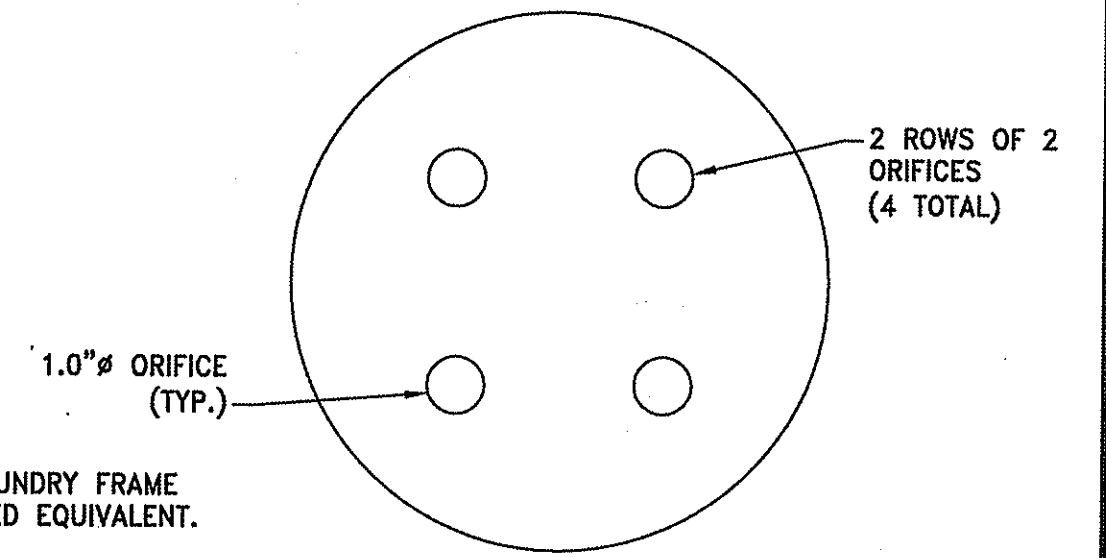


**DMH-6 OUTLET CONTROL STRUCTURE DETAIL**  
NOT TO SCALE

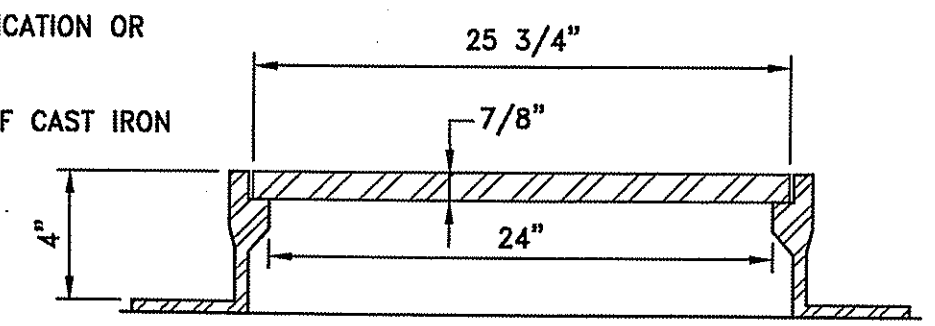


**DMH SECTION A-A DIVERSION WEIR WALL ELEVATION**

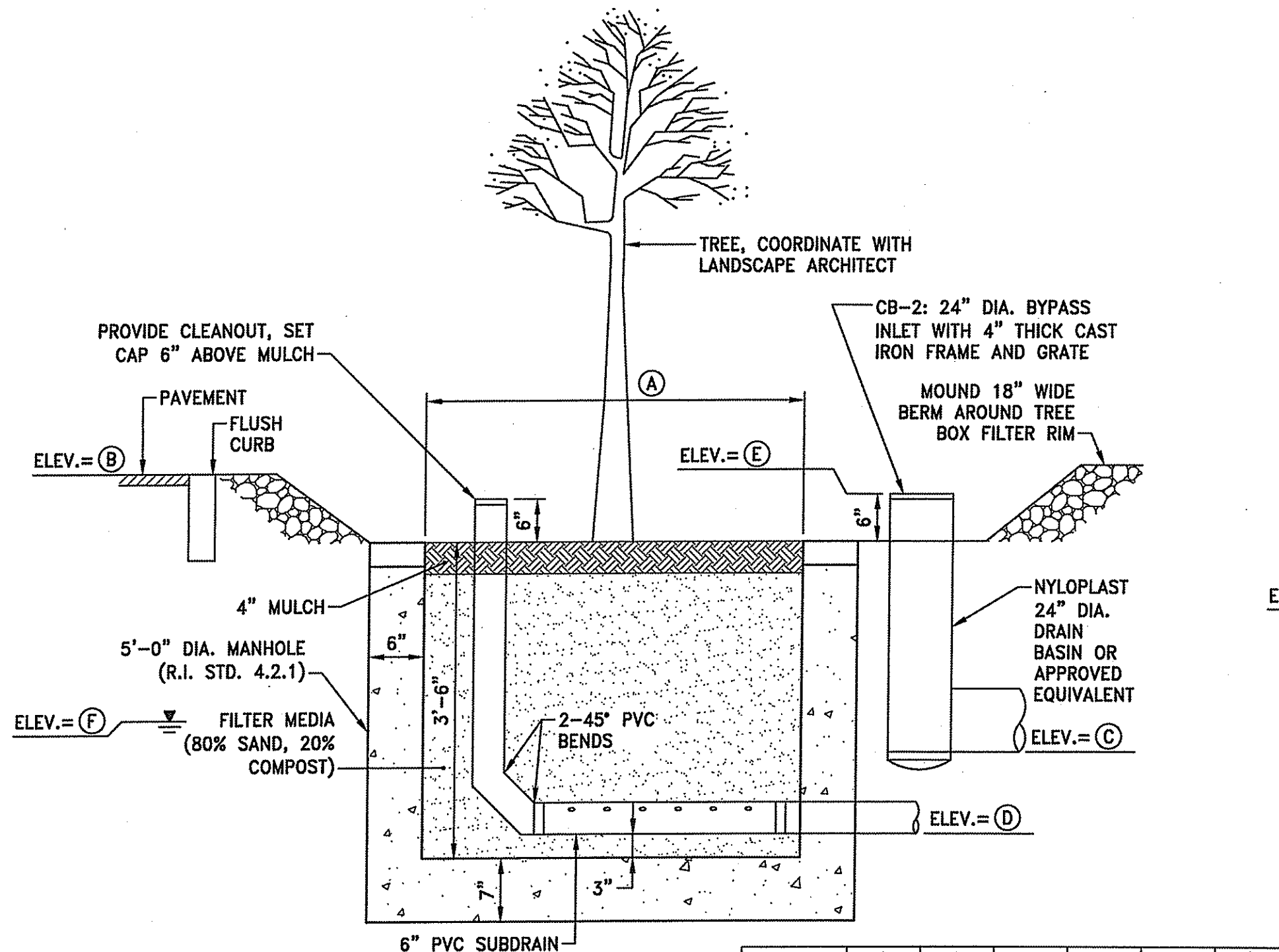
- NOTES:**
1. CONTRACTOR SHALL PROVIDE NEENAH FOUNDRY FRAME & COVER MODEL R-1733-1 OR APPROVED EQUIVALENT.
  2. PROVIDE ORIFICES OF THE DIAMETER AND PATTERN INDICATED.
  3. ORIFICES MAY BE DRILLED FOLLOWING FABRICATION OR CAST INTO THE LID.
  4. FRAME & GRATE SHALL BE CONSTRUCTED OF CAST IRON AND MEET H-10 LOADING CRITERIA.



**TBF-2**



**OUTLET GRATE DETAIL**  
NOT TO SCALE

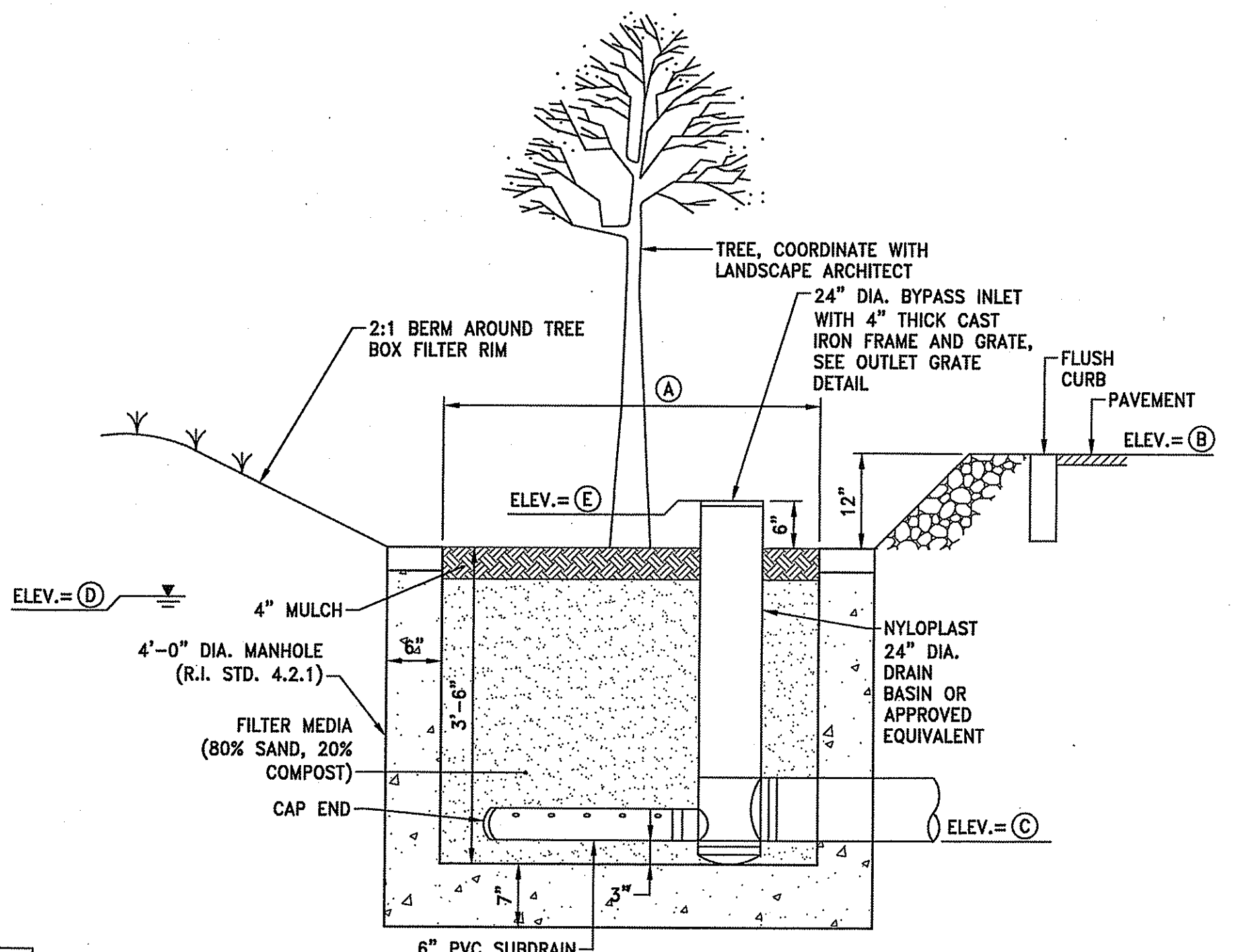


**SECTION A-A**

	A	B	C	D	E	F
TBF-1	5'-0"	78.35	76.35	74.20	78.20	76.67

- NOTES:**
1. DRAIN BASIN SHALL BE CUSTOM MANUFACTURED FOR THE PROJECT WITH THE INLETS & OUTLETS REQUIRED.
  2. DRAIN BASIN SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHYLENE.

**TREE BOX FILTER No. 1**  
NOT TO SCALE

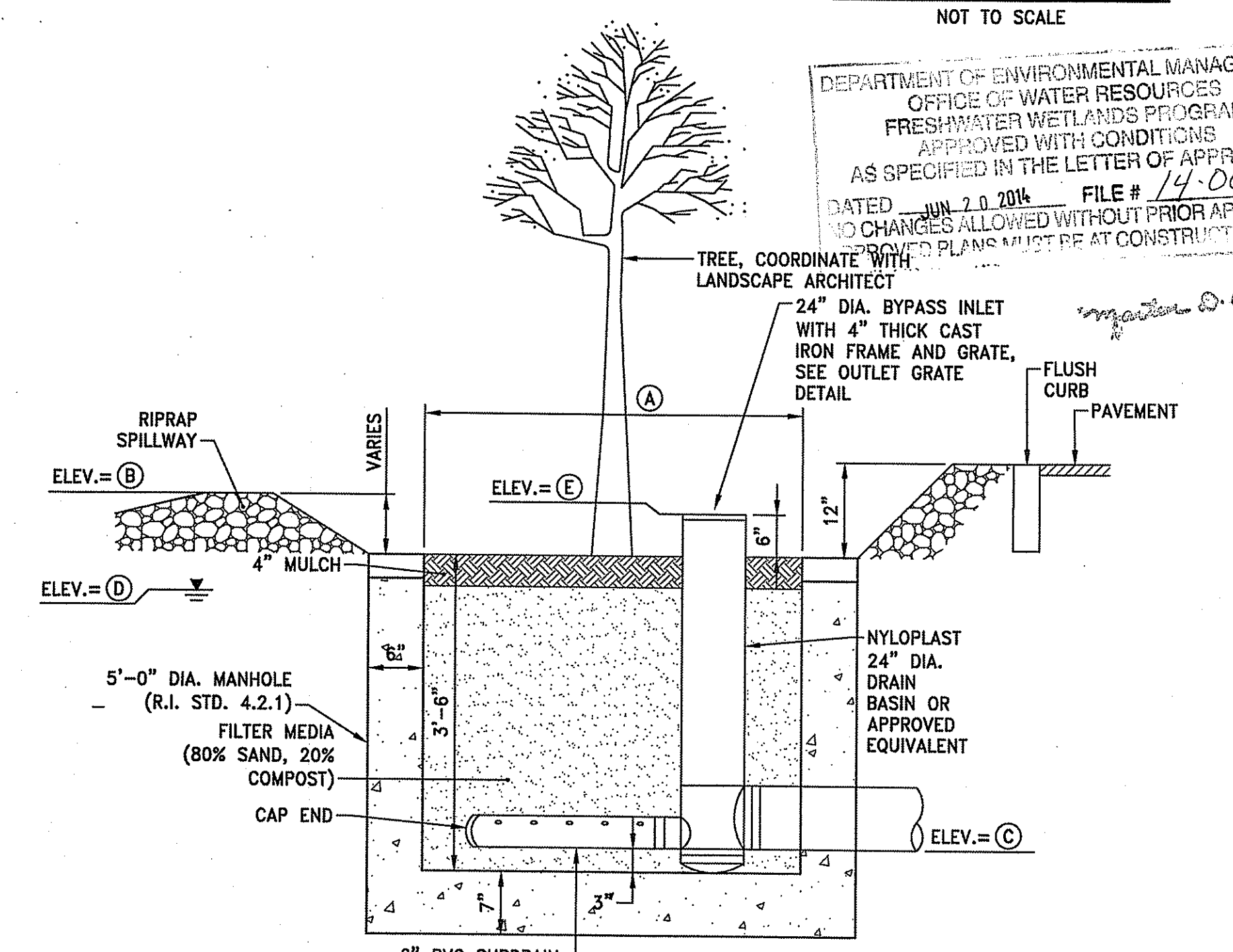


**SECTION A-A**

	A	B	C	D	E
TBF-3	5'-0"	87.45	83.20	86±	86.95

- NOTES:**
1. DRAIN BASIN SHALL BE CUSTOM MANUFACTURED FOR THE PROJECT WITH THE INLETS & OUTLETS REQUIRED.
  2. DRAIN BASIN SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHYLENE.

**TREE BOX FILTER No. 3**  
NOT TO SCALE



**SECTION A-A**

	A	B	C	D	E
TBF-2	5'-0"	86.45	82.20	85.00	85.95

- NOTES:**
1. DRAIN BASIN SHALL BE CUSTOM MANUFACTURED FOR THE PROJECT WITH THE INLETS & OUTLETS REQUIRED.
  2. DRAIN BASIN SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHYLENE.

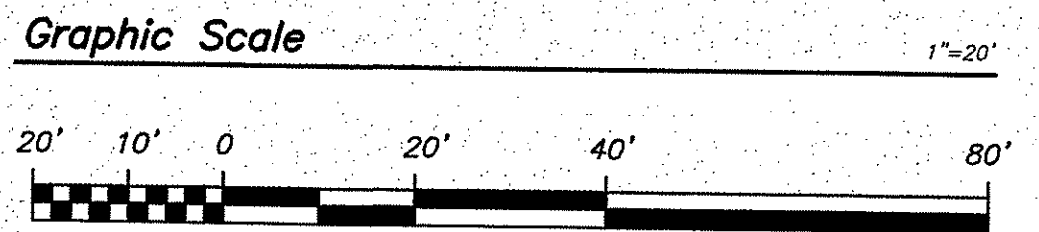
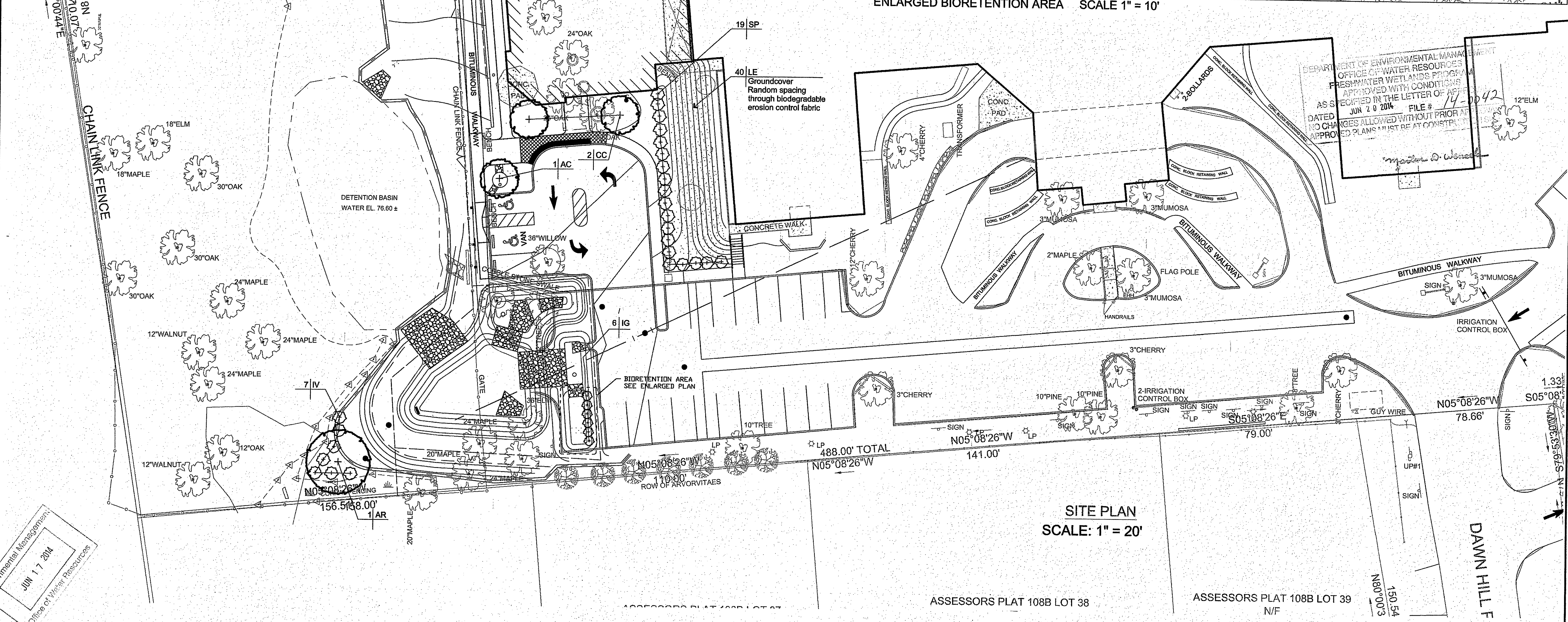
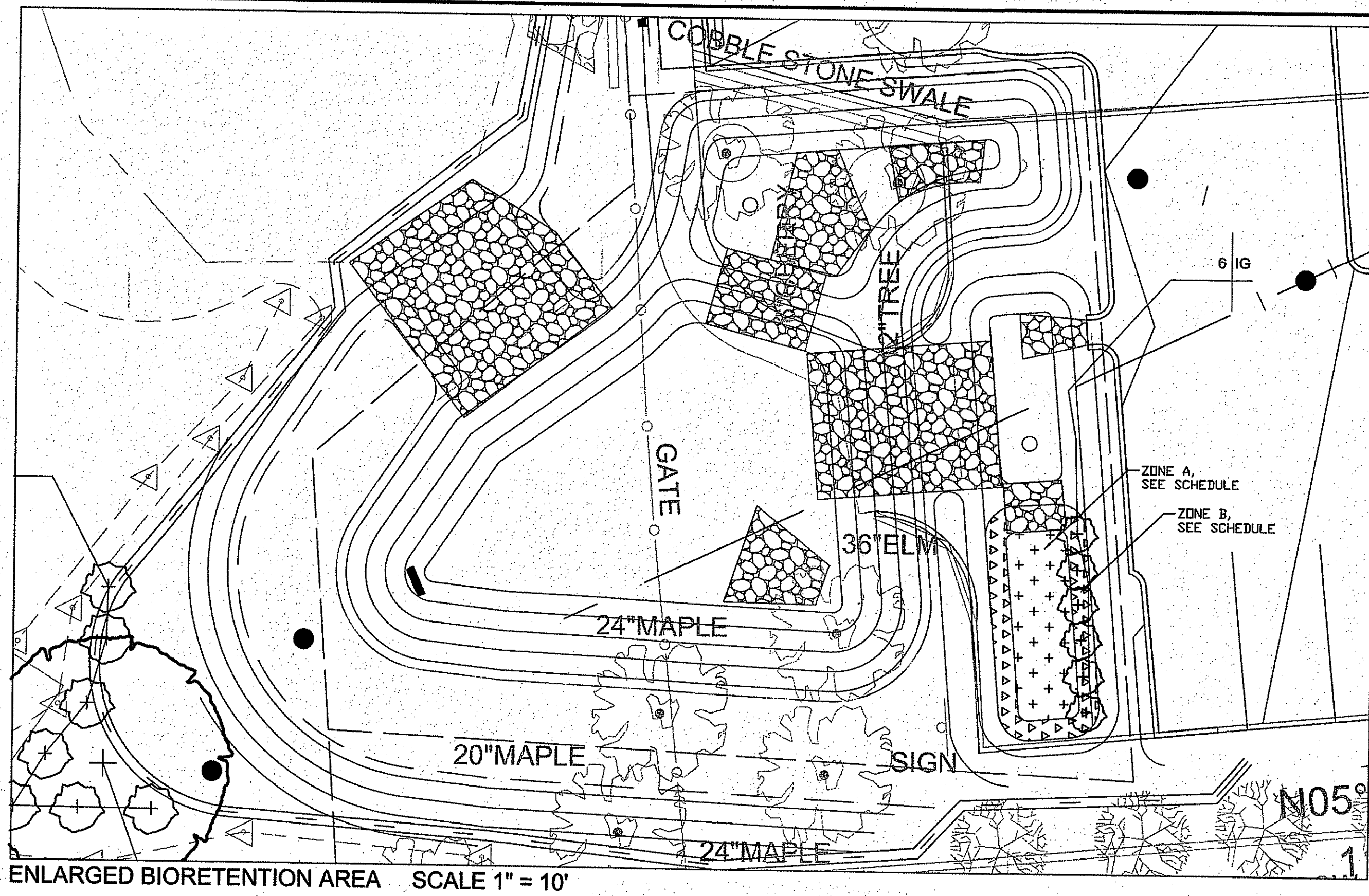
**TREE BOX FILTER No. 2**  
NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED JUN 20 2014 FILE # 14-0042  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

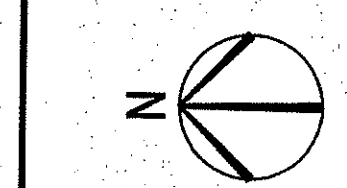
**PLANT LIST - A**

Symbol/Botanical Name	Common Name	No.	Size	Remarks
<b>Trees (Deciduous)</b>				
AC/Acer campestre	Hedge Maple	1	6-7Hc	Full, matching
AR/Acer rubrum 'October Glory'	October Glory Red Maple	1	6-7Hc	Single stem or clump
CC/Cercis Canadensis 'Alba'	White Red Bud	2	7-8Hc	Specimen shape; matching/ Clump form
<b>Shrubs &amp; Groundcover</b>				
IV/Ilex verticillata	Winterberry	7	#2	May sub. Winter Red Winterberry
LE/Leucothoefontanesiana 'Compacta'	Compact Drooping Leucothoe	40	#2	Evergreen groundcover/ 2'htx3-5' spread
SP/Spiraea japonica 'Shirobi'	Shirobi Spirea	19	18-24"Hc	CG acceptable
<b>Seed Mix for Drainage Structure</b>				
Seed Detention Basin bottom with New England Detention Basin and Moist Site Mix:				
28% Creeping Red Fescue	1% Green Bullrush			
28% Riverbank Wild Rye	.75 lbs. New England Aster			
10% Fox Sedge	.75% Flat-topped White Aster			
9% Big Bluestem	.5% Bonset			
8% Switchgrass	.5% Soft Rush			
6% Showy Tick Trefoil	.5% Woolgrass			
2% Ticklegrass	1% Blue Vervain			
Seed side slopes with RI State Slope Mix:				
70% Creeping Red Fescue				
15% Improved Perennial Rye				
15% Birdsfoot Trefoil				
<b>Bio-Retention Area</b>				
IG/Ilex Glabra	Inkberry	6	2-2.5' Ht	Full Specimens
EP/Eupatorium dubium 'Little Joe'	Little Joe Pye Weed	200	plugs	Random spacing
IR/Iris verticolor	Blueflag Iris	100	plugs	Random spacing
SC/Scirpus cyprinus	Wool Grass	100	plugs	Random spacing

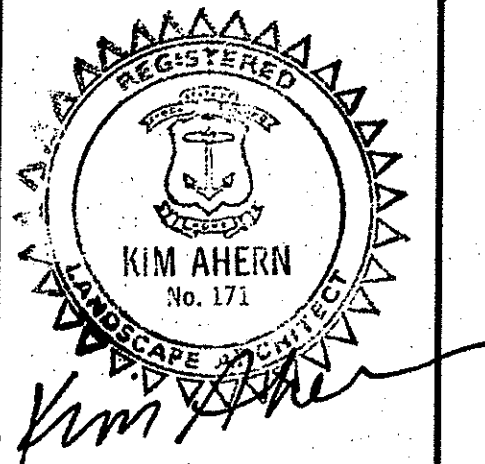
See C4.2 for Plant Notes & Details



OWNER / APPLICANT:  
St. Elizabeth Acquisition Corp.  
1 Dawn Hill Road  
Bristol, RI



**NEW ADDITION FOR  
ST. ELIZABETH MANOR**  
A.P. 108 / LOT 28  
1 Dawn Hill Road  
Bristol, Rhode Island



1	4/18/2014	DEM COMMENTS
1	5/01/2014	RIDEM COMMENTS

PROJECT NO.:	13109.00
DATE:	MARCH 3, 2014
SCALE:	1"=20'
DESIGNED BY:	RJS
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	JPS
DRAWING TITLE:	

Planting Plan  
DRAWING NO.: L-1  
SHEET NO. 17 OF 19

Environmental Management  
JUN 17 2014  
Office of Water Resources

Tree Pit  
Width of pit shall be three times width of rootball.  
Place root ball on undisturbed soil.

Slope sides of pit and scarify.

Top of ball shall be at same grade as growing in nursery.

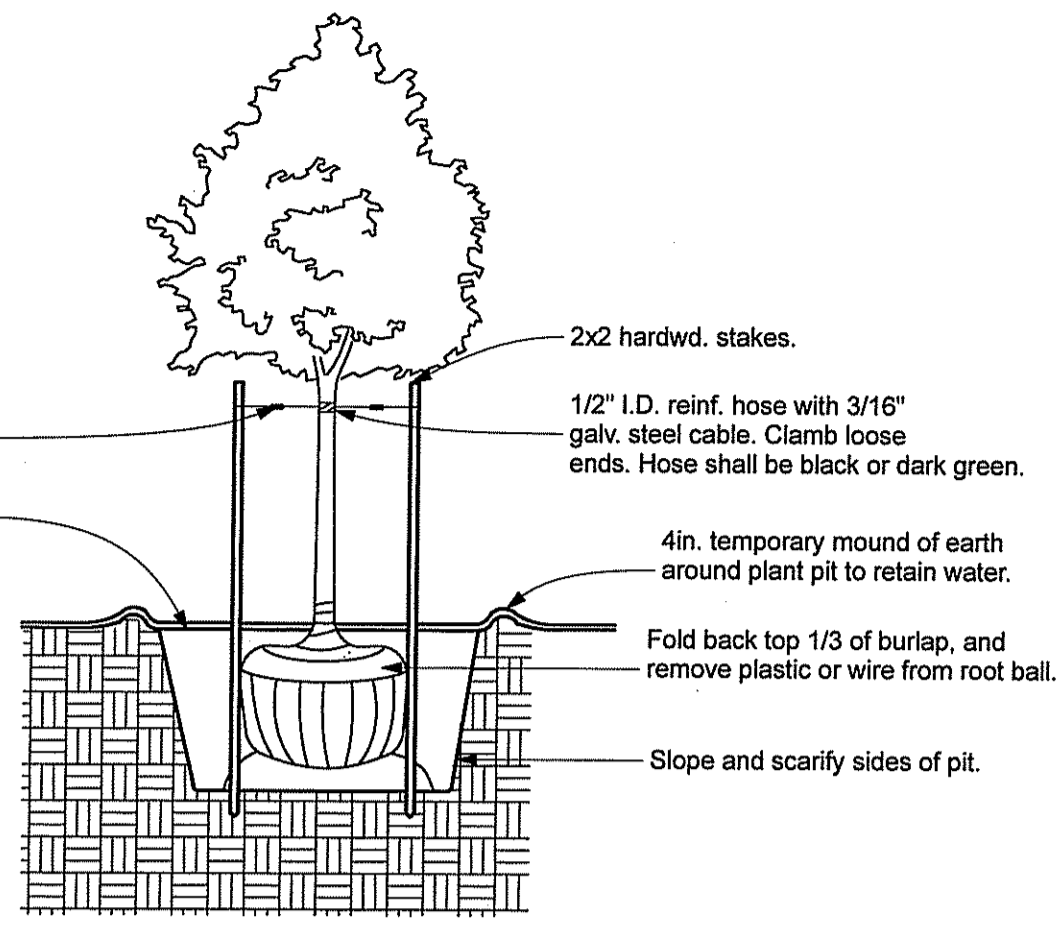
**Planting Mix & Watering:**  
Backfill shall be slightly improved material from tree pit.  
Break up clods and compacted soil and add minimal amounts of vermiculite and organic material if soil is poor.  
Add soil gradually and tamp lightly when backfilling.  
Water halfway and allow to drain.  
Water thoroughly after backfill complete.

**Mulch:**  
Place 2in. to 4in. mulch around each tree, 36in. dia. circle, minimum.  
Do not place any mulch against tree trunk.

See Planting Notes for mulch, watering and other requirements.

**Staking:**  
Generally, large trees do not need staking or tree wrap. However, contractors may stake trees to protect from mowers and to provide anchorage, especially if wind is a problem.

If stakes are necessary, use 3 stakes, 6ft. to 8ft. long, driven 2ft. into ground and 1 ft. from trunk of tree. Guy material shall be wide fabric band.  
Stakes should be fastened to allow some trunk movement.  
Stakes & guy should be removed within 1 year of planting.



**1 DETAIL-Typical Deciduous Tree Planting**

NOT TO SCALE

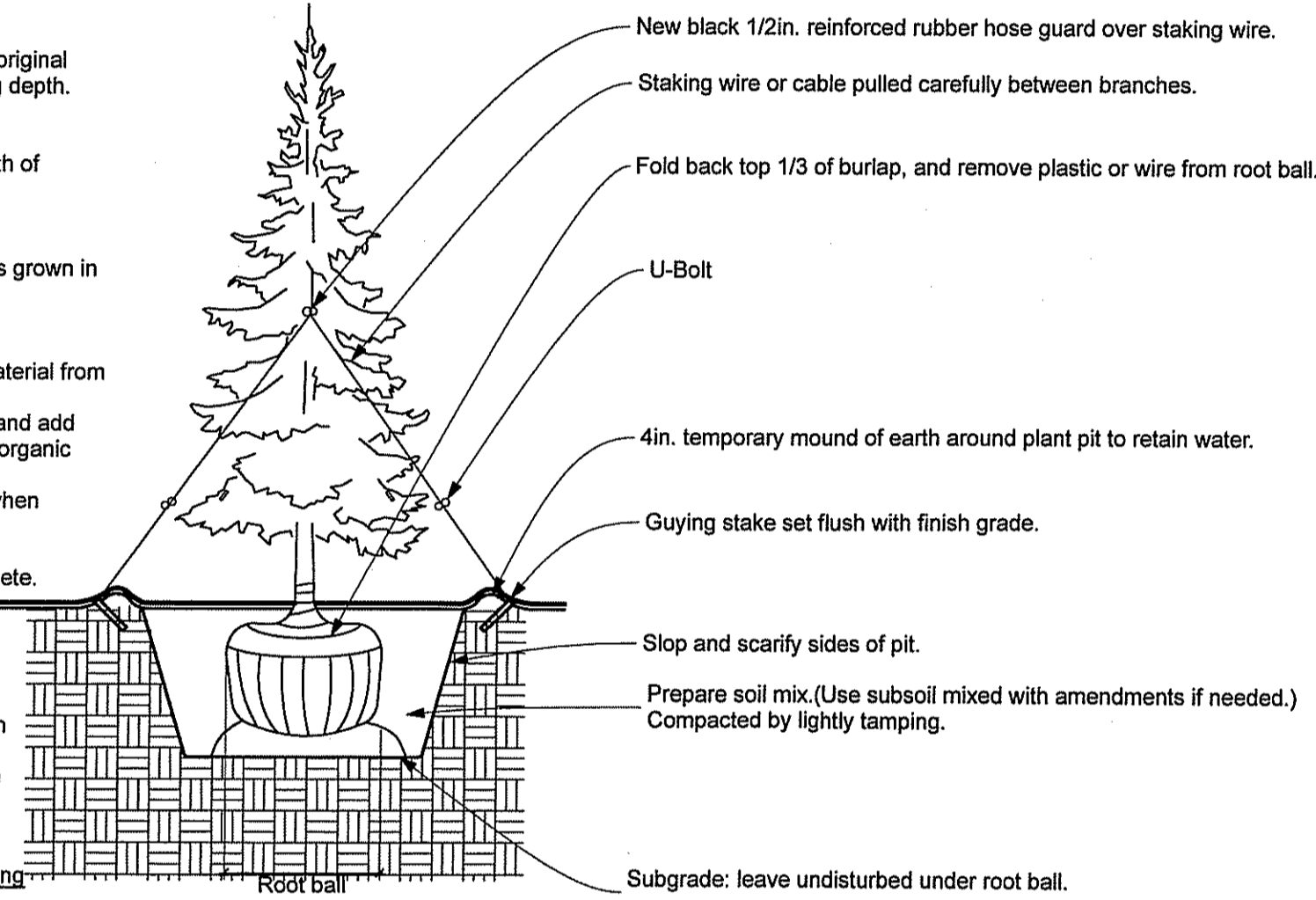
Note: Plant field dug evergreens at original north-south orientation and growing depth.

**Tree Pit**  
Width of pit shall be three times width of rootball.  
Place rootball on undisturbed soil.  
Slope sides of pit and scarify.  
Top of ball shall be at same grade as grown in nursery.

**Planting Mix & Watering:**  
Backfill shall be slightly improved material from tree pit.  
Break up clods and compacted soil and add minimal amounts of vermiculite and organic material if soil is poor.  
Add soil gradually and tamp lightly when backfilling.  
Water halfway and allow to drain.  
Water thoroughly after backfill complete.

**Mulch:**  
Place 2in. to 4in. mulch around each tree, 36in. dia. circle, minimum.  
Do not place any mulch against tree trunk.

See planting Notes for mulch, watering and other requirements.



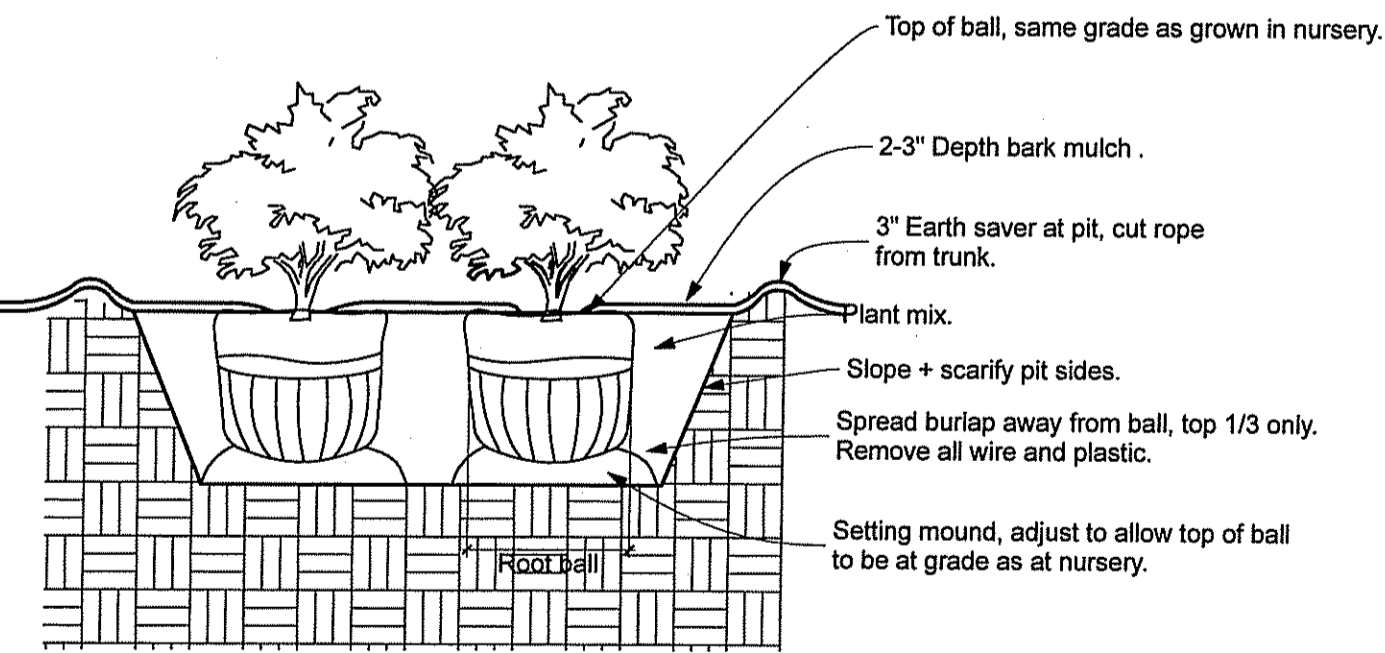
**2 DETAIL-Typical Coniferous Tree Planting**

NOT TO SCALE

**Pit for Balled or Potted Plants**

Width of pit shall be three times width of root ball or container.  
Place root ball on undisturbed soil.  
Slope sides of pit and scarify.  
Top of ball shall be same grade as grown in nursery.  
Remove container from containerized material and carefully loosen outer edge of root ball.

**Planting Mix & Watering:**  
Backfill shall be slightly improved material from pit.  
Break up clods and compacted soil and add minimal amounts of vermiculite and organic material if soil is poor.  
Add soil gradually and tamp lightly when backfilling.  
Water halfway and allow to drain.  
Water thoroughly after backfill is complete.

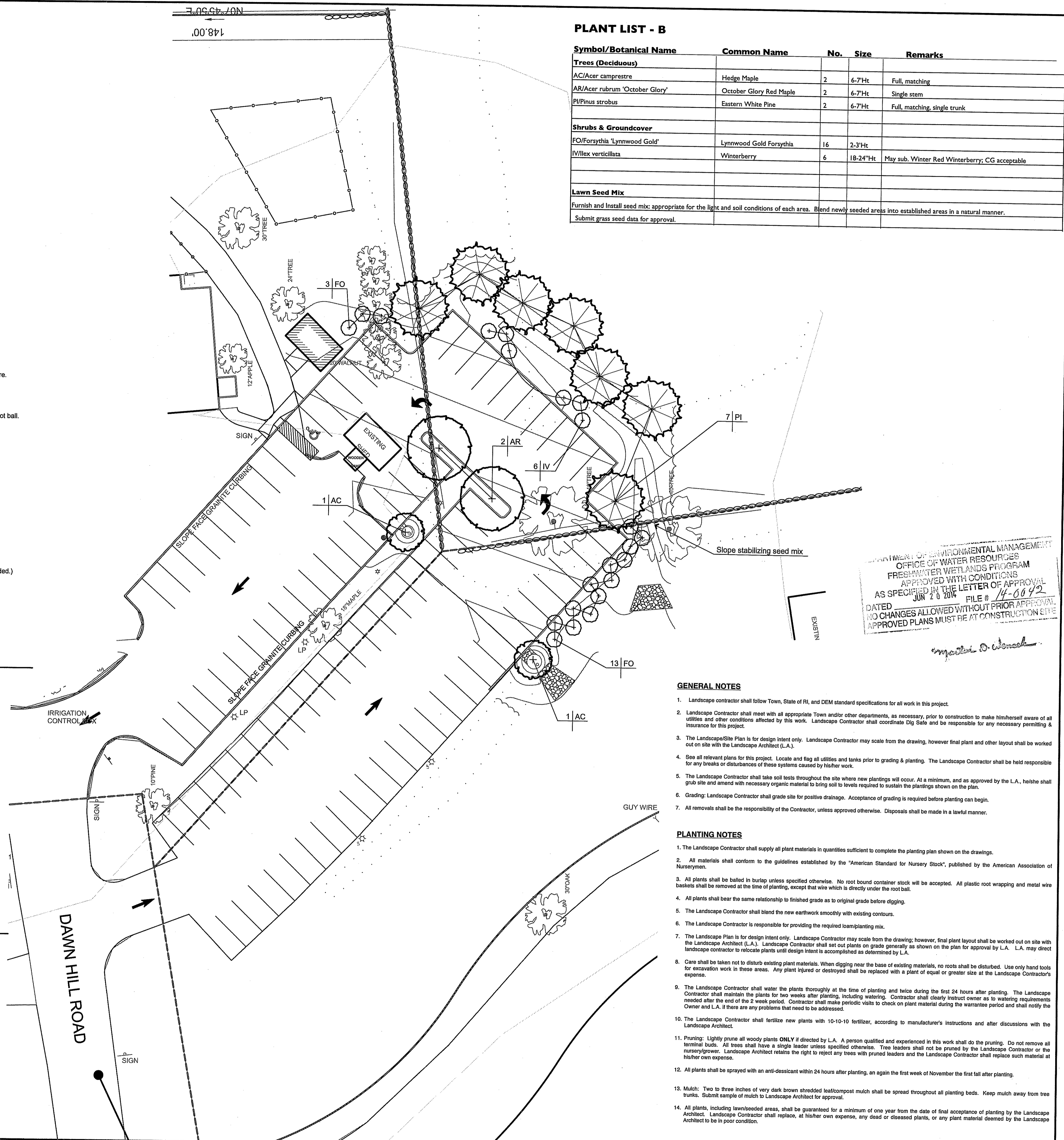


**3 DETAIL-Typical Shrub Planting**

NOT TO SCALE

**PLANT LIST - B**

Symbol/Botanical Name	Common Name	No.	Size	Remarks
<b>Trees (Deciduous)</b>				
AC/Acer campestre	Hedge Maple	2	6-7Ht	Full, matching
AR/Acer rubrum 'October Glory'	October Glory Red Maple	2	6-7Ht	Single stem
PI/Pinus strobus	Eastern White Pine	2	6-7Ht	Full, matching, single trunk
<b>Shrubs &amp; Groundcover</b>				
FO/Forsythia 'Lynnwood Gold'	Lynnwood Gold Forsythia	16	2-3Ht	
IV/Ilex verticillata	Winterberry	6	18-24Ht	May sub. Winter Red Winterberry; CG acceptable
<b>Lawn Seed Mix</b>				
Furnish and install seed mix appropriate for the light and soil conditions of each area. Blend newly seeded areas into established areas in a natural manner. Submit grass seed data for approval.				



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
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DATED JUN 20 2014 FILE # 14-0692  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

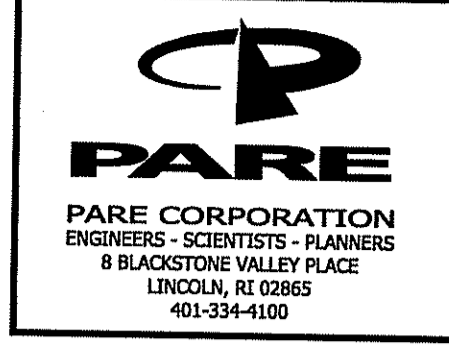
*Matthew D. Woodcock*

**GENERAL NOTES**

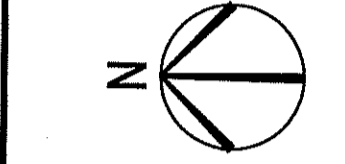
- Landscape contractor shall follow Town, State of RI, and DEM standard specifications for all work in this project.
- Landscape Contractor shall meet with all appropriate Town and/or other departments, as necessary, prior to construction to make him/herself aware of all utilities and other conditions affected by this work. Landscape Contractor shall coordinate Dig Safe and be responsible for any necessary permitting & insurance for this project.
- The Landscape Site Plan is for design intent only. Landscape Contractor may scale from the drawing, however final plant and other layout shall be worked out on site with the Landscape Architect (L.A.).
- See all relevant plans for this project. Locate and flag all utilities and tanks prior to grading & planting. The Landscape Contractor shall be held responsible for any breaks or disturbances of these systems caused by his/her work.
- The Landscape Contractor shall take soil tests throughout the site where new plantings will occur. At a minimum, and as approved by the L.A., he/she shall grub site and amend with necessary organic material to bring soil to levels required to sustain the plantings shown on the plan.
- Grading: Landscape Contractor shall grade site for positive drainage. Acceptance of grading is required before planting can begin.
- All removals shall be the responsibility of the Contractor, unless approved otherwise. Disposals shall be made in a lawful manner.

**PLANTING NOTES**

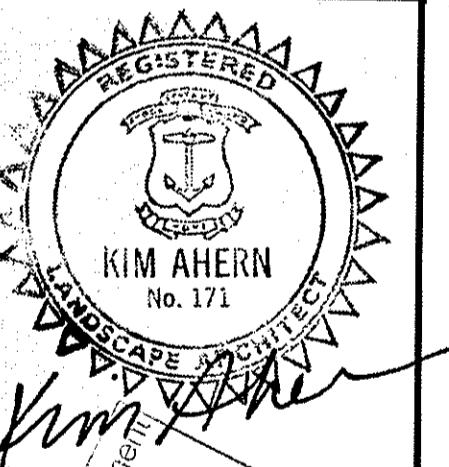
- The Landscape Contractor shall supply all plant materials in quantities sufficient to complete the planting plan shown on the drawings.
- All materials shall conform to the guidelines established by the "American Standard for Nursery Stock", published by the American Association of Nurserymen.
- All plants shall be balled in burlap unless specified otherwise. No root bound container stock will be accepted. All plastic root wrapping and metal wire baskets shall be removed at the time of planting, except that wire which is directly under the root ball.
- All plants shall bear the same relationship to finished grade as to original grade before digging.
- The Landscape Contractor shall blend the new earthwork smoothly with existing contours.
- The Landscape Contractor is responsible for providing the required loam/planting mix.
- The Landscape Plan is for design intent only. Landscape Contractor may scale from the drawing; however, final plant layout shall be worked out on site with the Landscape Architect (L.A.). Landscape Contractor shall set out plants on grade generally as shown on the plan for approval by L.A. L.A. may direct landscape contractor to relocate plants until design intent is accomplished as determined by L.A.
- Care shall be taken not to disturb existing plant materials. When digging near the base of existing materials, no roots shall be disturbed. Use only hand tools for excavation work in these areas. Any plant injured or destroyed shall be replaced with a plant of equal or greater size at the Landscape Contractor's expense.
- The Landscape Contractor shall water the plants thoroughly at the time of planting and twice during the first 24 hours after planting. The Landscape Contractor shall maintain the plants for two weeks after planting, including watering. Contractor shall clearly instruct owner as to watering requirements Owner and L.A. if there are any problems that need to be addressed.
- The Landscape Contractor shall fertilize new plants with 10-10-10 fertilizer, according to manufacturer's instructions and after discussions with the Landscape Architect.
- Pruning: Lightly prune all woody plants ONLY if directed by L.A. A person qualified and experienced in this work shall do the pruning. Do not remove all terminal buds. All trees shall have a single leader unless specified otherwise. Tree leaders shall not be pruned by the Landscape Contractor or the nursery/grower. Landscape Architect retains the right to reject any trees with pruned leaders and the Landscape Contractor shall replace such material at his/her own expense.
- All plants shall be sprayed with an anti-desiccant within 24 hours after planting, and again the first week of November the first fall after planting.
- Mulch: Two to three inches of very dark brown shredded leaf/compost mulch shall be spread throughout all planting beds. Keep mulch away from tree trunks. Submit sample of mulch to Landscape Architect for approval.
- All plants, including lawnseeded areas, shall be guaranteed for a minimum of one year from the date of final acceptance of planting by the Landscape Architect. Landscape Contractor shall replace, at his/her own expense, any dead or diseased plants, or any plant material deemed by the Landscape Architect to be in poor condition.



OWNER / APPLICANT:  
St. Elizabeth Acquisition Corp.  
1 Dawn Hill Road  
Bristol, RI



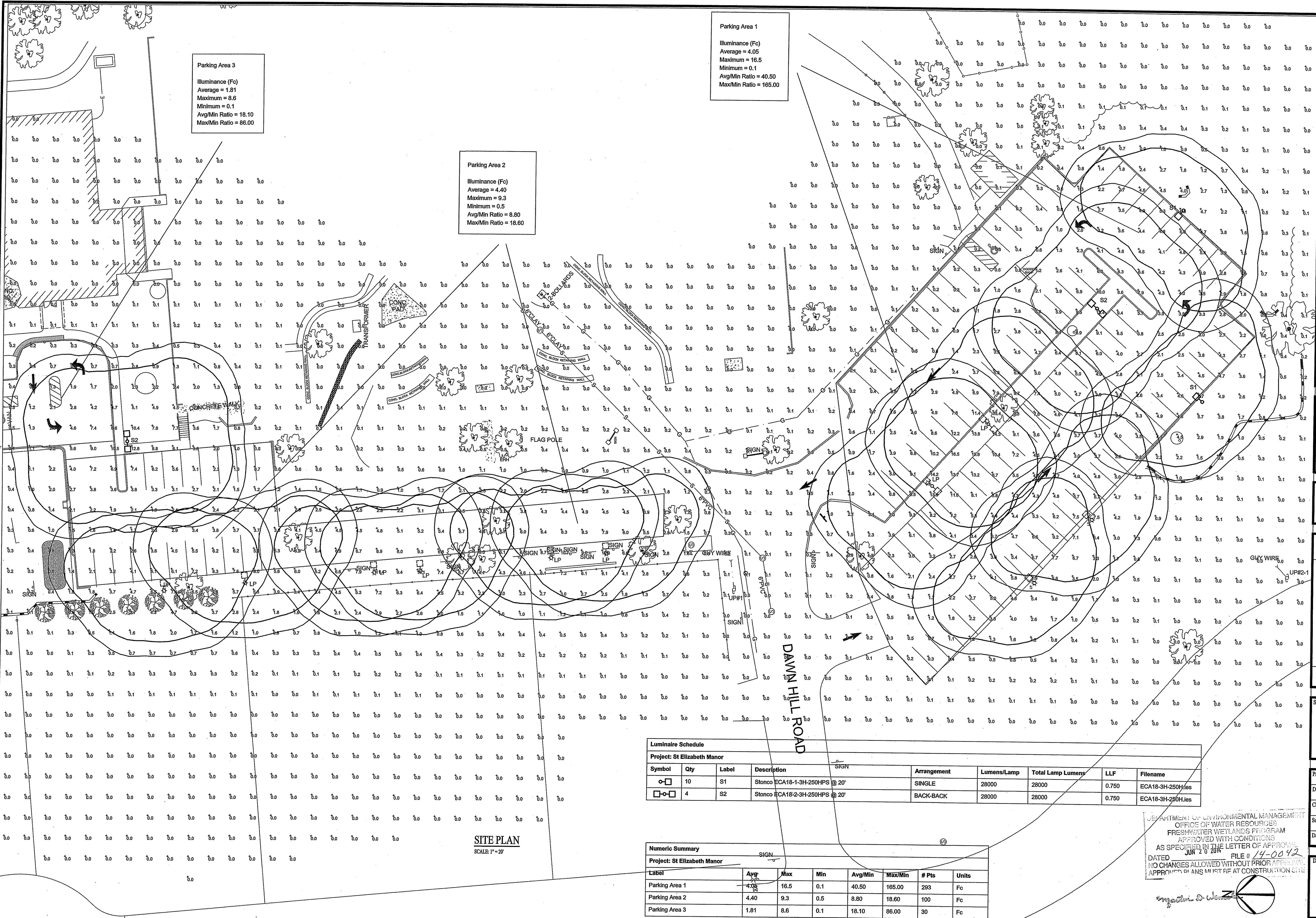
NEW ADDITION FOR  
**ST. ELIZABETH MANOR**  
A.P. 108 / LOT 28  
1 Dawn Hill Road  
Bristol, Rhode Island



DATE	DESCRIPTION	BY
4/18/2014	DEM COMMENTS	
5/03/2014	DEM COMMENTS	
ANY	ANY	
ANY	ANY	
ANY	ANY	

PROJECT NO.: 13109.00  
DATE: MARCH 3, 2014  
SCALE: 1"=20'  
DESIGNED BY: RJS  
CHECKED BY: DLP  
DRAWN BY: AKL  
APPROVED BY: JPS  
DRAWING TITLE:

Planting Plan  
DRAWING NO.: L-2  
SHEET NO. 18 OF 19



**Parking Area 3**  
 Illuminance (Fc)  
 Average = 1.81  
 Maximum = 8.6  
 Minimum = 0.1  
 Avg/Min Ratio = 18.10  
 Max/Min Ratio = 86.00

**Parking Area 2**  
 Illuminance (Fc)  
 Average = 4.40  
 Maximum = 9.3  
 Minimum = 0.5  
 Avg/Min Ratio = 8.80  
 Max/Min Ratio = 18.60

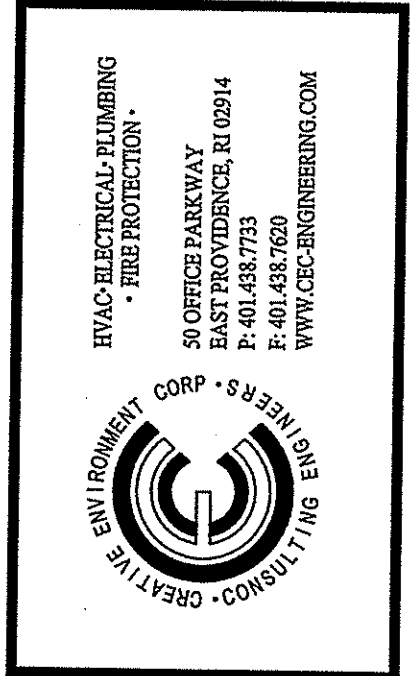
**Parking Area 1**  
 Illuminance (Fc)  
 Average = 4.05  
 Maximum = 16.5  
 Minimum = 0.1  
 Avg/Min Ratio = 40.50  
 Max/Min Ratio = 165.00

**SITE PLAN**  
 SCALE: 1" = 20'

Luminaire Schedule								
Project: St Elizabeth Manor								
Symbol	Qty	Label	Description	Arrangement	Lumens/Lamp	Total Lamp Lumens	LLF	Filename
○-□	10	S1	Stonco ECA18-1-3H-250HPS @ 20'	SINGLE	28000	28000	0.750	ECA18-3H-250H.Jes
□-○	4	S2	Stonco ECA18-2-3H-250HPS @ 20'	BACK-BACK	28000	28000	0.750	ECA18-3H-250H.Jes

Numeric Summary							
Project: St Elizabeth Manor							
Label	Avg	Max	Min	Avg/Min	Max/Min	# Pts	Units
Parking Area 1	4.05	16.5	0.1	40.50	165.00	293	Fc
Parking Area 2	4.40	9.3	0.5	8.80	18.60	100	Fc
Parking Area 3	1.81	8.6	0.1	18.10	86.00	30	Fc

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED JUN 20 2014 FILE # 14-0042  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE



**NEW ADDITION FOR  
 ST. ELIZABETH MANOR**  
 A.P. 108 / LOT 28  
 1 Dawn Hill Road  
 Bristol, Rhode Island

**STEVEN COSTA**  
 No. 7813  
 REGISTERED PROFESSIONAL ENGINEER  
 ELECTRICAL

Status:	
Date:	
Revision/Issue:	
No.:	

PHOTOMETRIC  
 POINT-BY-POINT  
 SITE LTG PLAN

Project No: 20140015  
 Drawn By: GCD  
 Checked By: SC  
 Scale: 1" = 20'-0"  
 Date: 02-28-14

Drawing No:  
**ES.1**