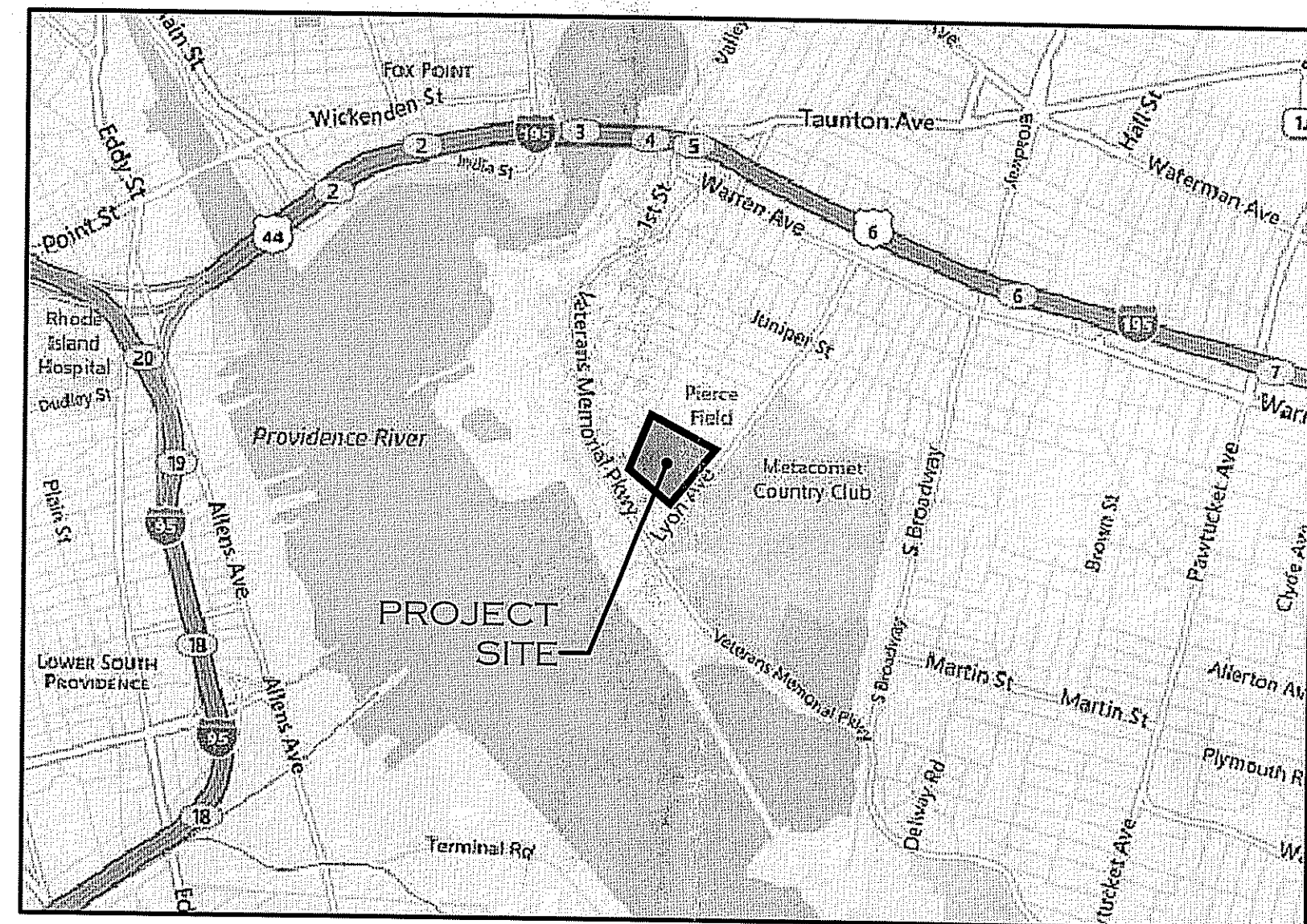
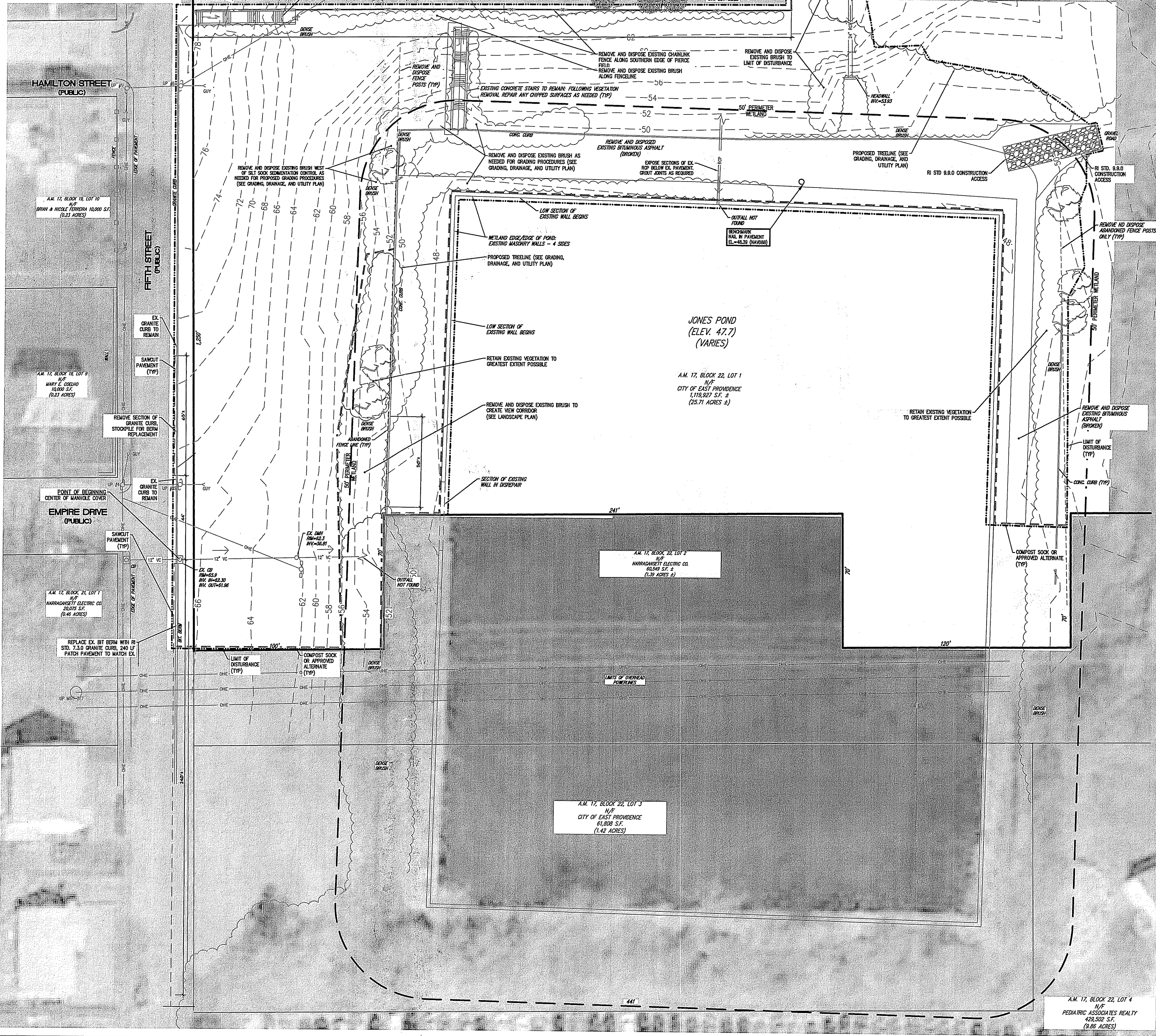


2.134.48 Jones Pond Improvements.dwg  
Kevin M. Alverson, LA

- LEGEND:**
- SUBJECT PROPERTY LINE
  - ABUTTING PROPERTY LINE
  - EX. EDGE OF PAVEMENT
  - EX. STEPS
  - EX. UTILITY POLE
  - OHE — EX. OVERHEAD WIRES
  - DMH — EX. DRAINAGE MANHOLE
  - CB — EX. CATCH BASIN
  - VC-CLAY — EX. DRAIN LINE
  - REF-CONCRETE — EX. CHAIN LINK FENCE
  - 98 — EX. CONTOUR
  - — — — — LIMIT OF DISTURBANCE
  - — — — — COMPOST SILT SOCK
  - — — — — 50' PERIMETER WETLAND
  - — — — — NEW TREELINE



**LOCUS**  
NOT TO SCALE

- SITE PREPARATION NOTES:**
- FLOOD PLAIN NOTE: THIS PROJECT SITE IS LOCATED OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN, AS DEPICTED ON THE CURRENT PUBLISHED FLOOD INSURANCE RATE MAP (FIRM). - NO BFEs OR BASE FLOOD DEPTHS ARE SHOWN WITHIN THESE ZONES.
  - SEDIMENTATION CONTROL: PLACE COMPOST SOCK SEDIMENTATION CONTROL AT ALL DOWNSTREAM LIMITS OF DISTURBANCE AND AS NOTED ON THIS PLAN. SEE SHEET ENTITLED, NOTES AND DETAILS 1 FOR MORE INFORMATION.

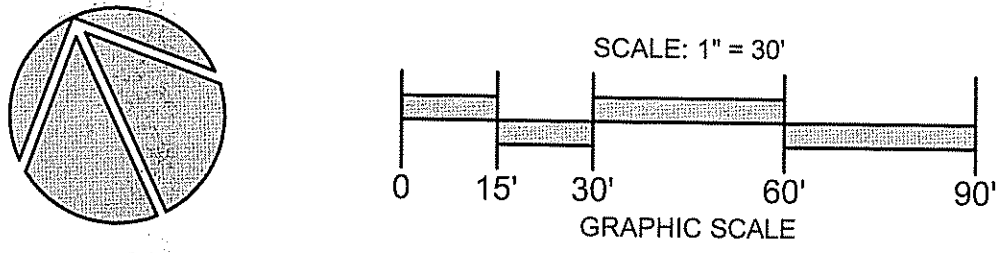
- EXISTING CONDITIONS NOTES:**
- EXISTING CONDITIONS SHOWN PER FIELD SURVEY COMPLETED ON AUGUST 1, 2013.
  - REFERENCE PLAN ENTITLED, "SITE UTILITIES: PIERCE MEMORIAL FIELD: EAST PROVIDENCE, RHODE ISLAND" BY KEYES ASSOCIATES+ SHEET L-51 DATED 3/1/89 (MARKED "PROGRESS PRINT").
  - REFERENCE CITY OF EAST PROVIDENCE GIS DATA.

**TABLE OF CONTENTS:**

SHEET 1 OF 9:	EXISTING CONDITIONS AND SITE PREPARATION PLAN
SHEET 2 OF 9:	SITE LAYOUT PLAN
SHEET 3 OF 9:	GRADING, DRAINAGE, AND UTILITY PLAN
SHEET 4 OF 9:	GRADING AND DRAINAGE DETAILS 1
SHEET 5 OF 9:	GRADING AND DRAINAGE DETAILS 2
SHEET 6 OF 9:	NOTES AND DETAILS 1
SHEET 7 OF 9:	NOTES AND DETAILS 2
SHEET 8 OF 9:	LANDSCAPE PLAN
SHEET 9 OF 9:	LANDSCAPE NOTES AND DETAILS

**TIMOTHY H. KINDER**  
No. 1974  
PROFESSIONAL LAND SURVEYOR

**CERTIFICATION:**  
THIS SURVEY AND PLAN CONFORM TO A CLASS III STANDARD FOR PROPERTY LINE AND A CLASS III STANDARD FOR PLANIMETRICS AND/OR TOPOGRAPHY AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.  
BY: *[Signature]* 9/12/2014  
PROFESSIONAL LAND SURVEYOR DATE



**REVISIONS**


**REFERENCES:**

**JONES POND IMPROVEMENTS PROJECT RIDEM SUBMISSION**

A. P. 17, BLOCK 22, LOT 1  
FIFTH STREET  
EAST PROVIDENCE, RI

**OWNER/APPLICANT:**  
THE CITY OF EAST PROVIDENCE

**KEVIN M. ALVERSON, LA**  
LANDSCAPE ARCHITECTURE  
360 ANNAGATUCKET ROAD  
WICKFORD, RI 02852  
401 335 0044  
KMA@KEVINMVALVERSON.LA.COM

**MILLSTONE ENGINEERING, P.C.**  
CIVIL ENGINEERING • LAND PLANNING  
250 Centerville Road, Building E-12  
Wickford, Rhode Island 02885  
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www.millstoneeng.com

**JEFFREY C. HANSON**  
No. 5238  
PROFESSIONAL ENGINEER  
9/12/14

**EXISTING CONDITIONS AND SITE PREPARATION PLAN**

PROJECT #: 2.134.48 SHEET 1 OF 9  
SCALE: 1" = 30'  
DRAWN BY: KMA / BJC  
CHECKED BY: KA/JH  
DATE: SEPT. 11, 2014

**LEGEND:**

[Symbol]	SUBJECT PROPERTY LINE
[Symbol]	ABUTTING PROPERTY LINE
[Symbol]	EX. EDGE OF PAVEMENT
[Symbol]	EX. STEPS
[Symbol]	EX. UTILITY POLE
[Symbol]	EX. OVERHEAD WIRES
[Symbol]	EX. DRAINAGE MANHOLE
[Symbol]	EX. CATCH BASIN
[Symbol]	EX. DRAIN LINE
[Symbol]	EX. CHAIN LINK FENCE
[Symbol]	EX. CONTOUR
[Symbol]	PR. WALK
[Symbol]	PR. WOOD RAIL FENCE (RIDOT STD. 31.2.0)
[Symbol]	PR. CHAIN LINK FENCE (RIDOT STD. 31.2.0)
[Symbol]	PR. WOOD BOLLARD
[Symbol]	PR. CONTOUR
[Symbol]	PR. SPOT GRADE
[Symbol]	PR. DRAIN LINE
[Symbol]	PR. BOULDER WALLS (SEE DETAILS)
[Symbol]	LIMIT OF DISTURBANCE
[Symbol]	COMPOST SILT SOCK
[Symbol]	50' PERIMETER WETLAND
[Symbol]	NEW TREELINE
[Symbol]	COIR EROSION CONTROL MAT

2.134.48 Jones Pond Improvements.dwg

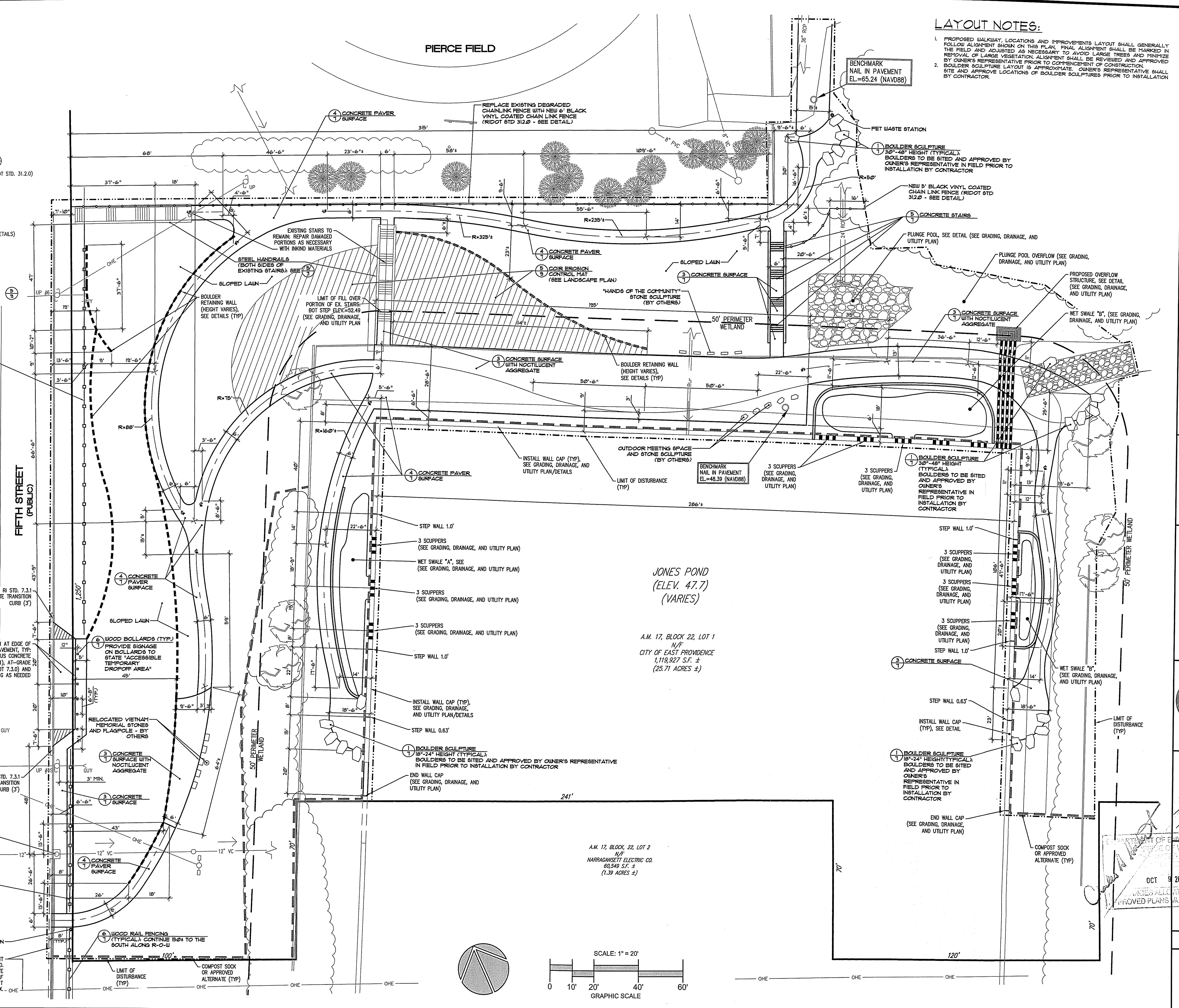
AM. 17, BLOCK 19, LOT 10  
N/F  
BRIAN & NICOLE FERREIRA 10,000 S.F.  
(0.23 ACRES)

AM. 17, BLOCK 19, LOT 9  
N/F  
MARY E. COELHO  
10,000 S.F.  
(0.23 ACRES)

AM. 17, BLOCK 21, LOT 1  
N/F  
NARRAGANSETT ELECTRIC CO.  
20,075 S.F.  
(0.46 ACRES)

AM. 17, BLOCK 22, LOT 1  
N/F  
CITY OF EAST PROVIDENCE  
1,119,927 S.F. ±  
(25.71 ACRES ±)

AM. 17, BLOCK 22, LOT 2  
N/F  
NARRAGANSETT ELECTRIC CO.  
60,549 S.F. ±  
(1.39 ACRES ±)



**LAYOUT NOTES:**

- PROPOSED WALKWAY LOCATIONS AND IMPROVEMENTS LAYOUT SHALL GENERALLY FOLLOW ALIGNMENT SHOWN ON THIS PLAN. FINAL ALIGNMENT SHALL BE MARKED IN THE FIELD AND ADJUSTED AS NECESSARY TO AVOID LARGE TREES AND MINIMIZE REMOVAL OF LARGE VEGETATION. ALIGNMENT SHALL BE REVIEWED AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- BOULDER SCULPTURE LAYOUT IS APPROXIMATE. OWNER'S REPRESENTATIVE SHALL SITE AND APPROVE LOCATIONS OF BOULDER SCULPTURES PRIOR TO INSTALLATION BY CONTRACTOR.

**REVISIONS**


**REFERENCES:**

AM. 17, BLOCK 22, LOT 1  
FIFTH STREET  
EAST PROVIDENCE, RI

**JONES POND IMPROVEMENTS PROJECT RIDEM SUBMISSION**

AM. 17, BLOCK 22, LOT 1  
FIFTH STREET  
EAST PROVIDENCE, RI

PREPARED FOR:  
THE CITY OF EAST PROVIDENCE

KEVIN M. ALVERSON, LA  
LANDSCAPE ARCHITECTURE  
360 ANNAGUATUCKET ROAD  
WICKFORD, RI 02892  
401.338.0044  
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www.MillstoneEng.com

JEFFREY C. HANSON  
No. 5238  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF RHODE ISLAND  
EXPIRES 12/31/2014

**SITE LAYOUT PLAN**

PROJECT #: 2.134.48 SHEET 2 OF 9

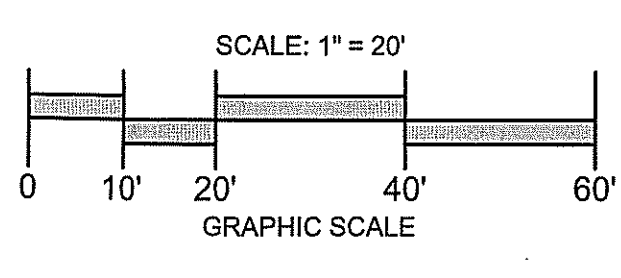
SCALE: 1" = 20'

DRAWN BY: KMA /BJC

CHECKED BY: KMA

DATE: SEPT. 11, 2014

**2**



2.134.48 Jones Pond Improvements.dwg

**LEGEND:**

- SUBJECT PROPERTY LINE
- ABUTTING PROPERTY LINE
- EX. EDGE OF PAVEMENT
- EX. STEPS
- EX. UTILITY POLE
- OHE — EX. OVERHEAD WIRES
- DMH — EX. DRAINAGE MANHOLE
- CB — EX. CATCH BASIN
- VC-CLAY — EX. DRAIN LINE
- RCP-CONCRETE — EX. CHAIN LINK FENCE
- 98 — EX. CONTOUR
- PR. WALK
- PR. GUIDE RAIL
- 52 — PR. CONTOUR
- 50.17 — PR. SPOT GRADE
- PR. DRAIN LINE
- PR. BOULDER WALL
- - - - - LIMIT OF DISTURBANCE
- - - - - COMPOST SILT SOCK

**NOTE:**  
LIMIT OF DISTURBANCE AREA =  
2.01 ACRES.

REVISIONS


**REFERENCES:**

# JONES POND IMPROVEMENTS PROJECT RIDEM SUBMISSION

A. P. 17, BLOCK 22, LOT 1  
FIFTH STREET  
EAST PROVIDENCE, RI



PREPARED FOR:  
THE CITY OF EAST PROVIDENCE

KEVIN M. ALVERSON, LA  
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JEFFREY C. HANSON  
No. 5238  
REGISTERED PROFESSIONAL ENGINEER  
9/12/14

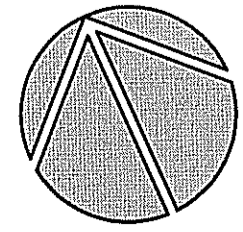
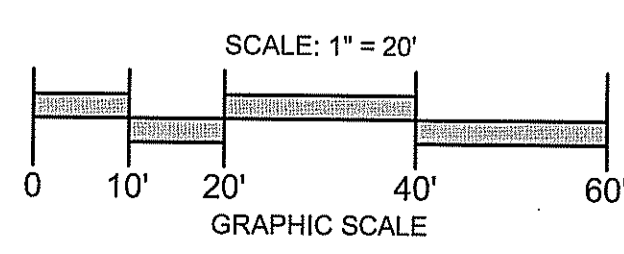
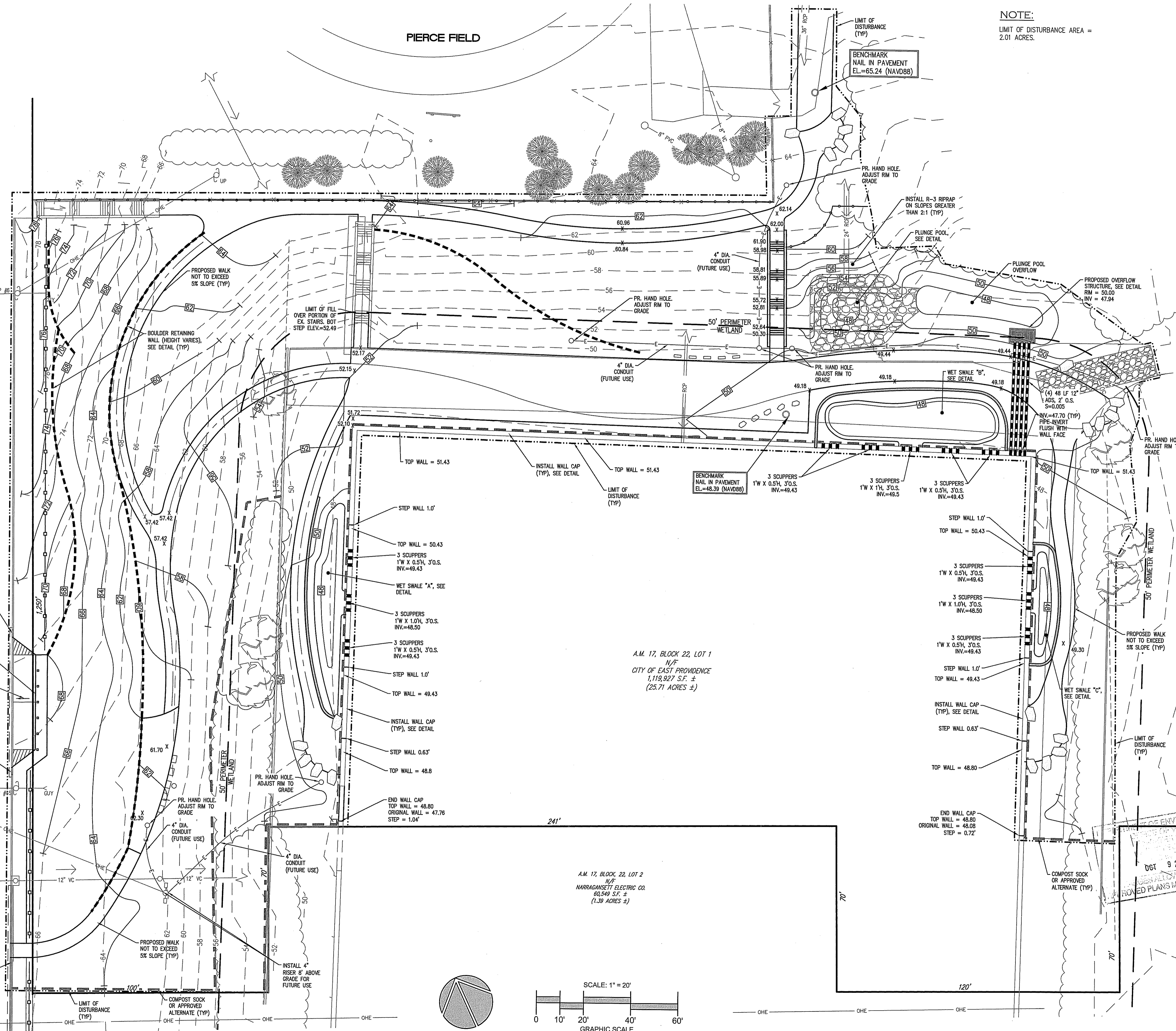
ENVIRONMENTAL MANAGEMENT  
RESOURCES  
RISKS PROGRAM  
CONDITIONS  
APPROVAL  
FILE # 14-0165  
APPROVED FOR CONSTRUCTION  
DATE: 9/20/14

## GRADING, DRAINAGE & UTILITY PLAN

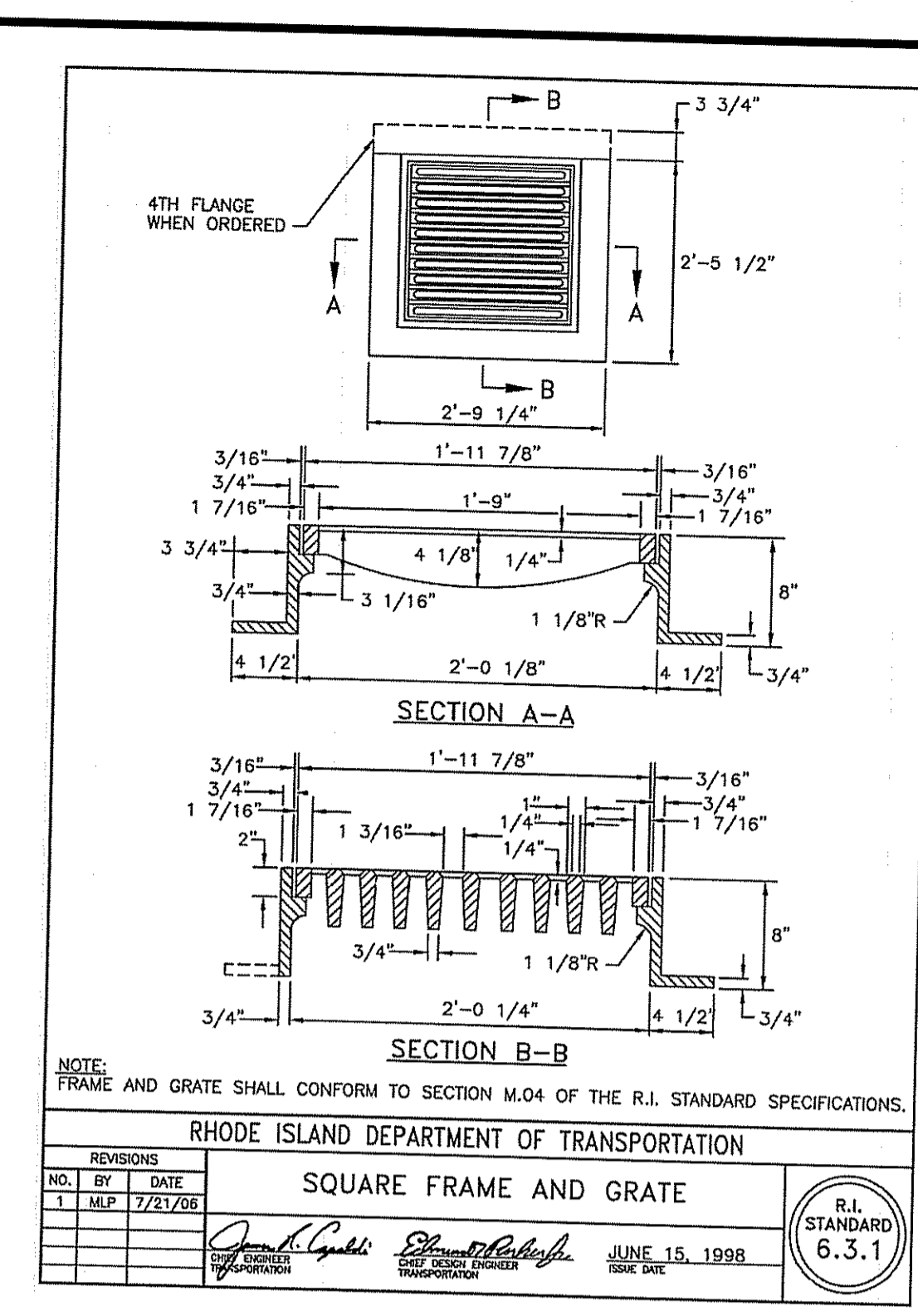
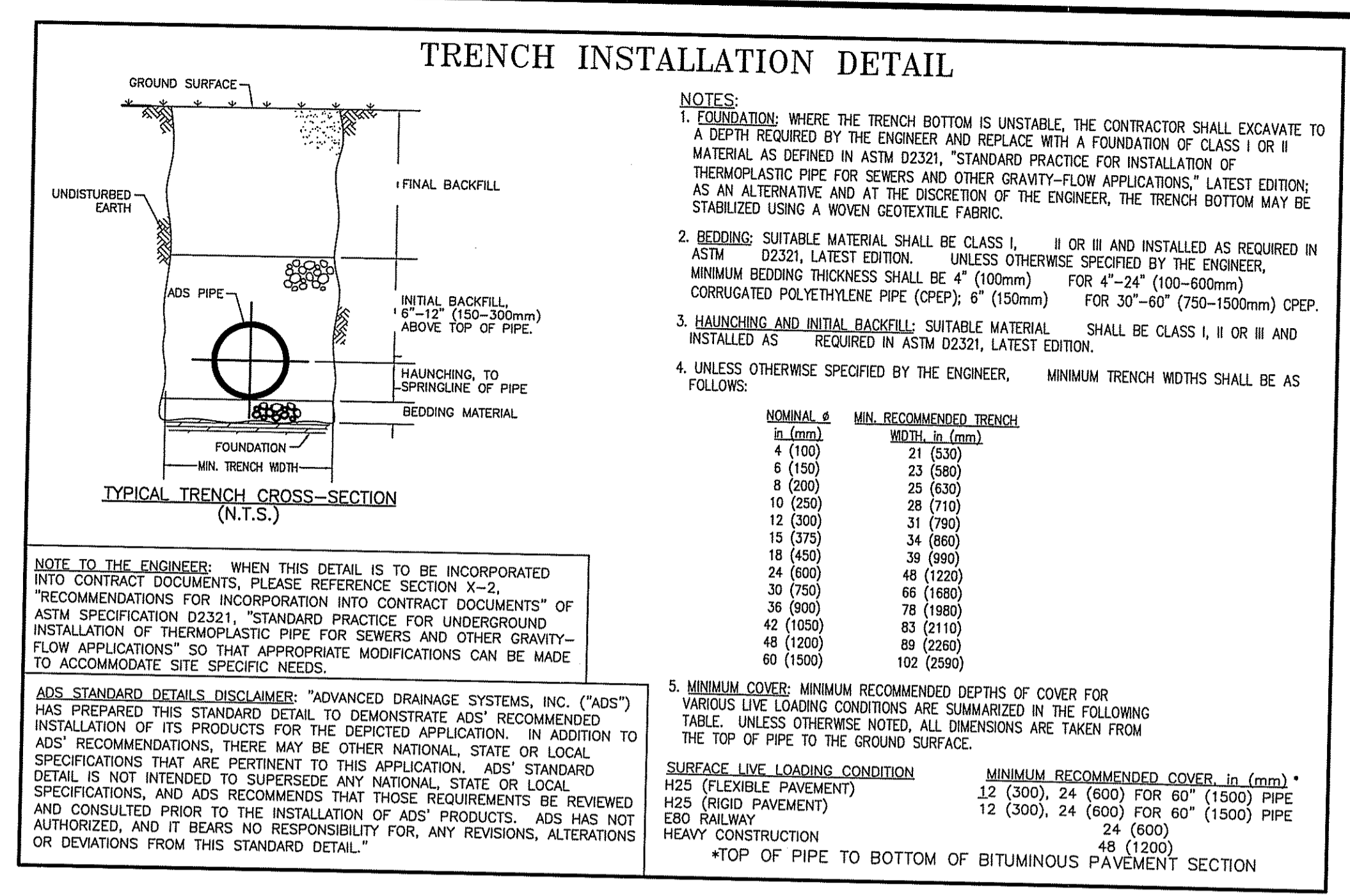
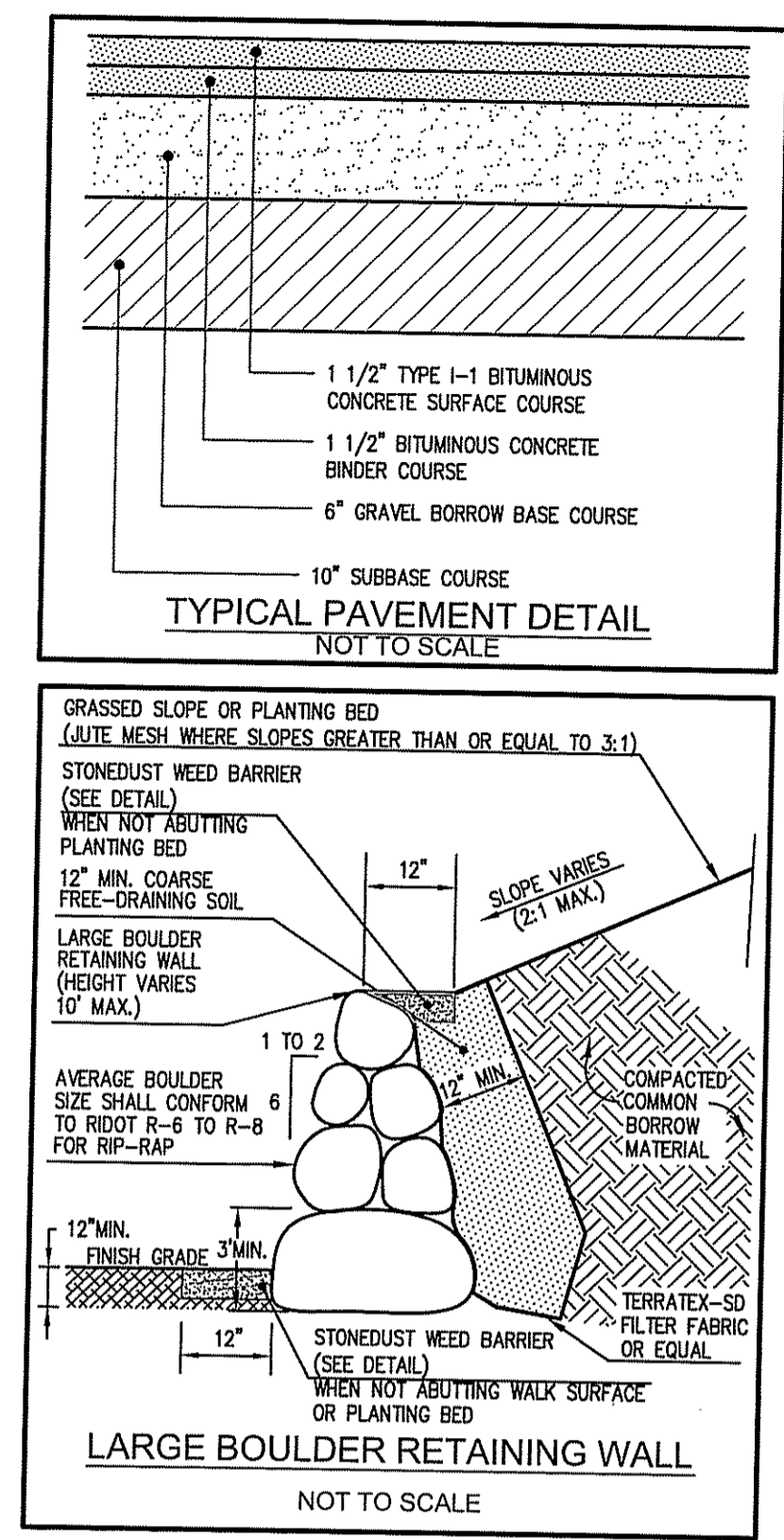
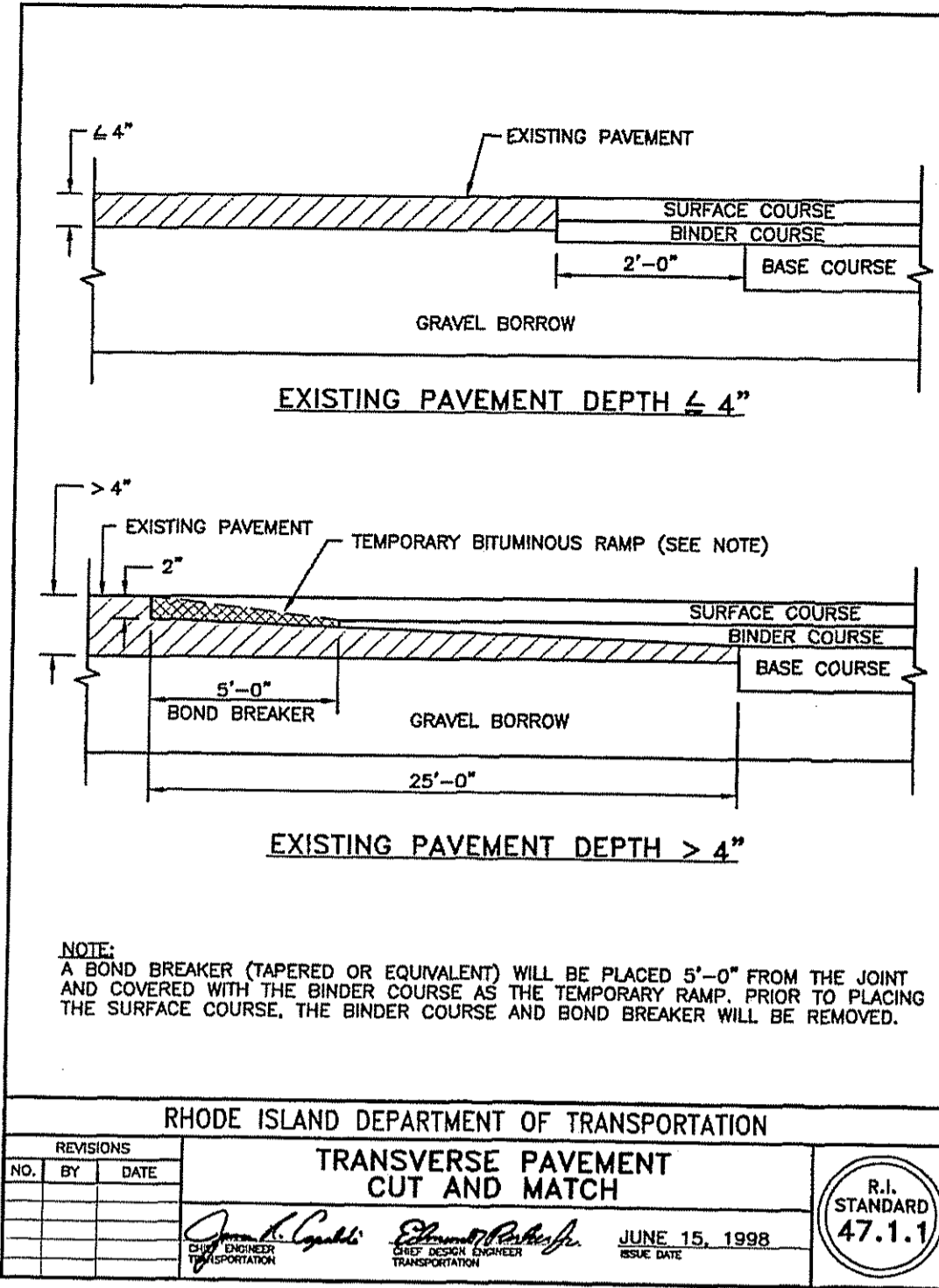
PROJECT #: 2.134.48 SHEET 3 OF 9

SCALE: 1" = 20'  
DRAWN BY: KMA / BJC  
CHECKED BY: JCH  
DATE: SEPT. 11, 2014

# 3



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REVISIONS

NO.	BY	DATE

REFERENCES:

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
TRANSVERSE PAVEMENT CUT AND MATCH  
JUNE 15, 1998  
R.I. STANDARD 47.1.1

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
SQUARE FRAME AND GRATE  
JUNE 15, 1998  
R.I. STANDARD 6.3.1

A. P. 17, BLOCK 22, LOT 1  
FIFTH STREET  
EAST PROVIDENCE, RI

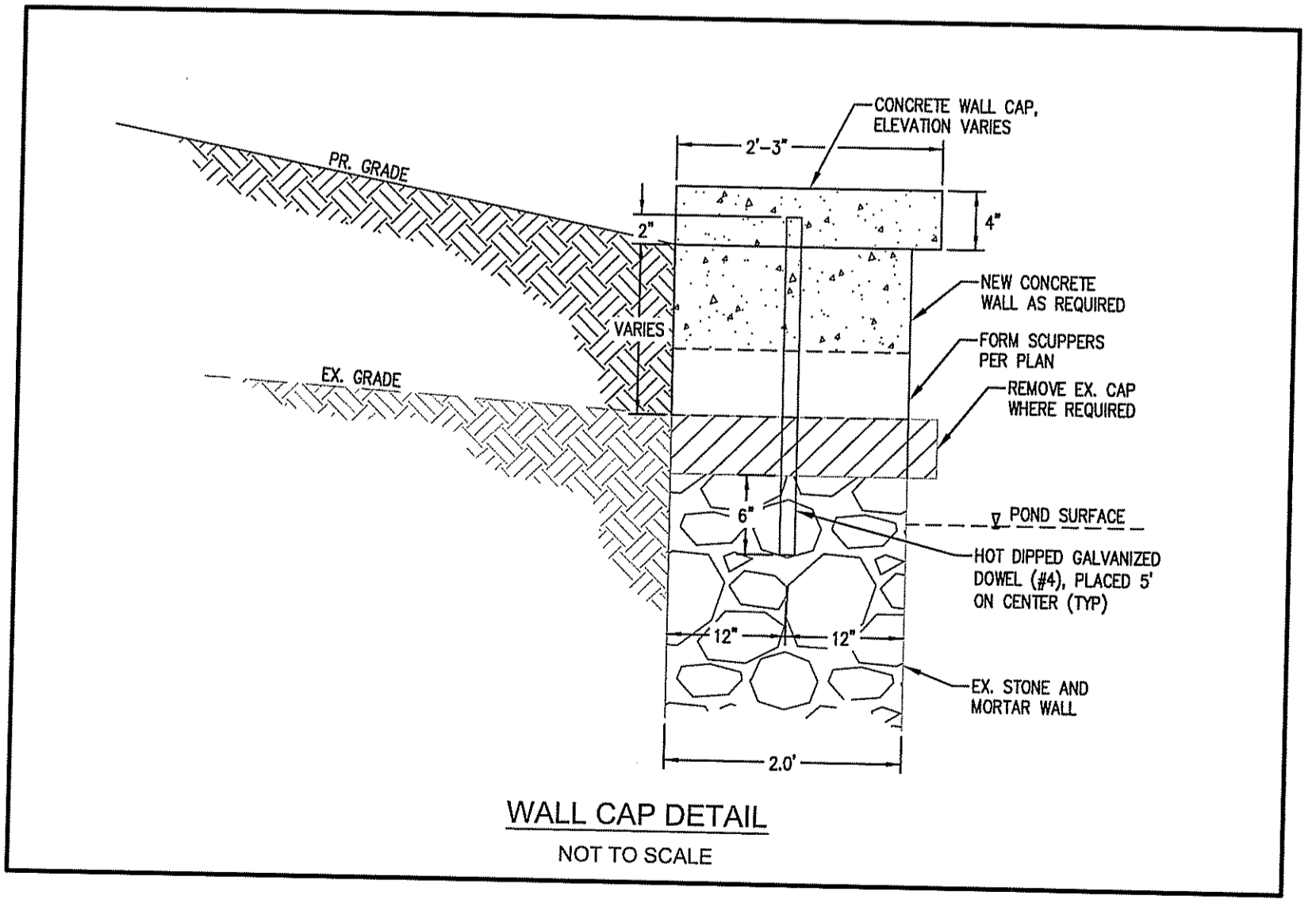
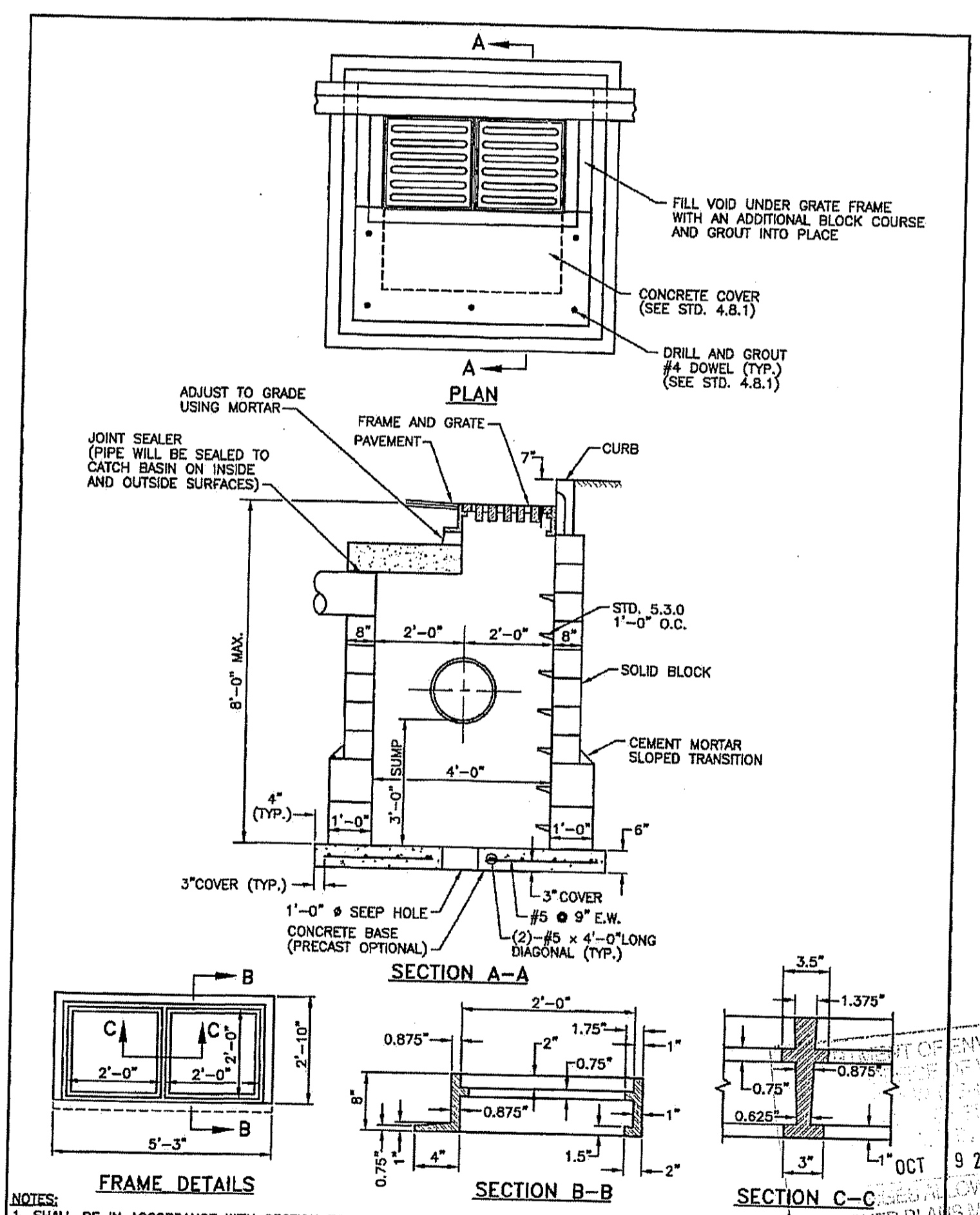
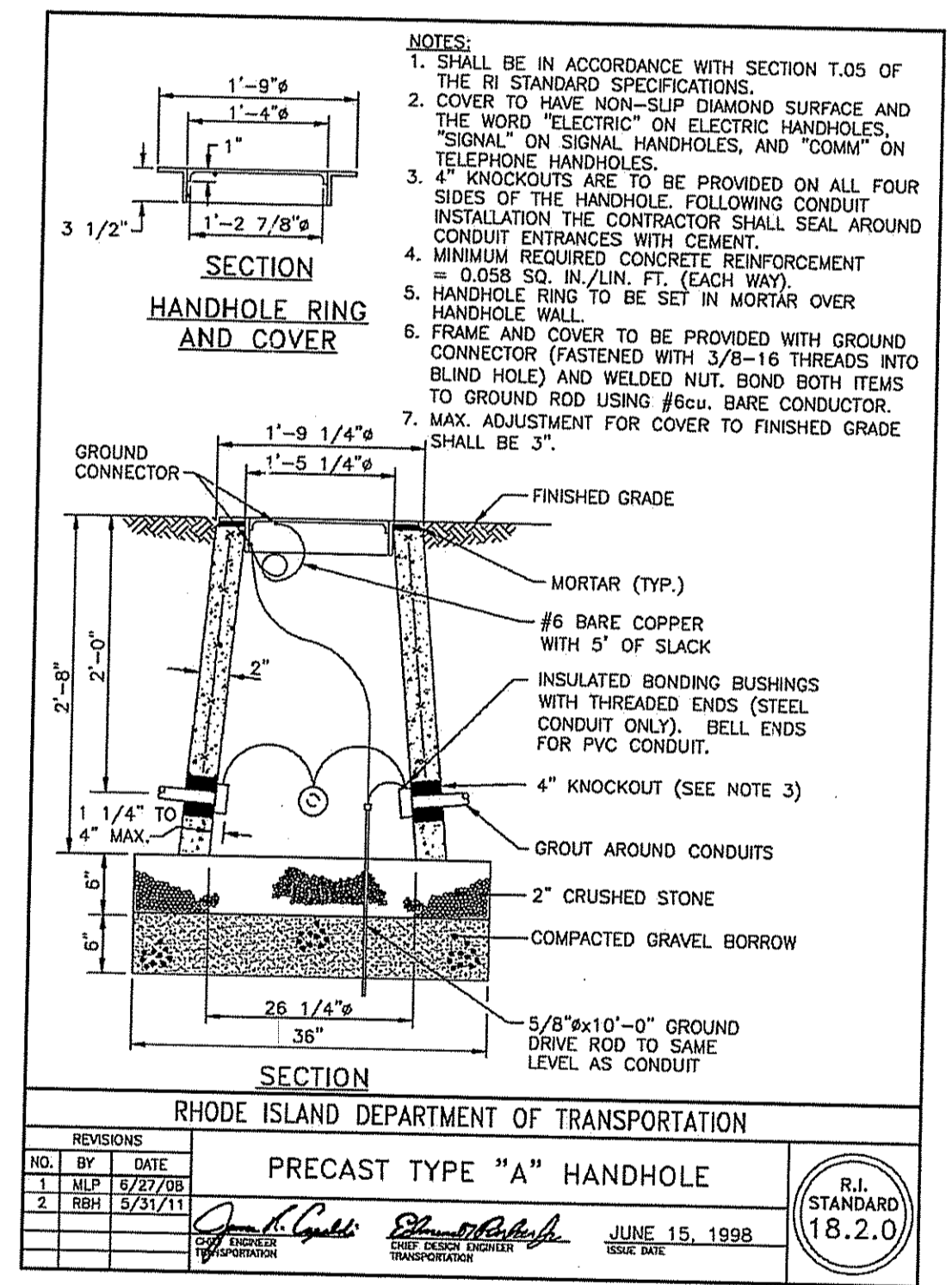
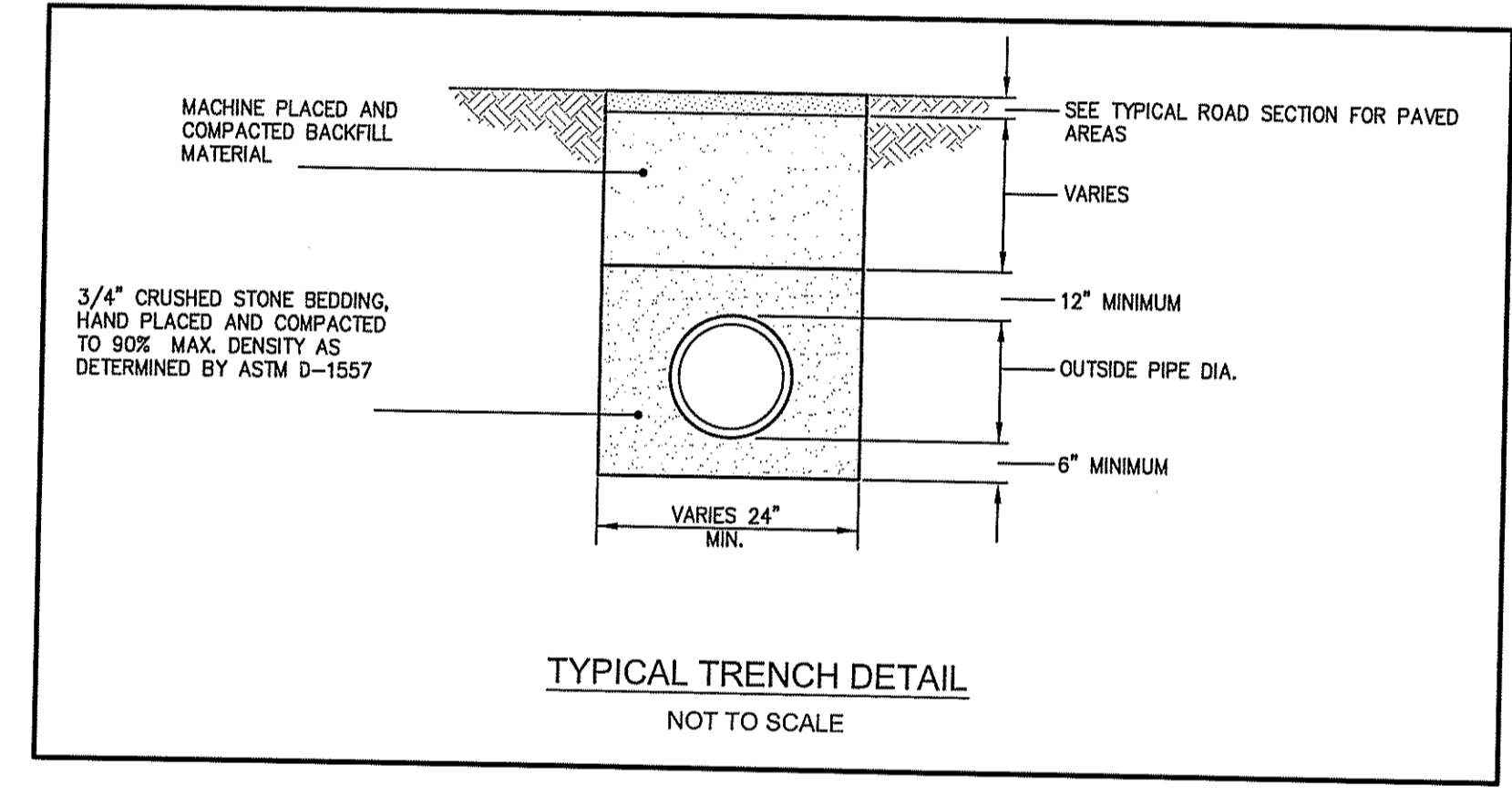
PREPARED FOR:  
THE CITY OF EAST PROVIDENCE

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www.MillstoneEng.com

ENVIRONMENTAL MANAGEMENT RESOURCES PROGRAM  
FILE # 14-0165  
APPROVED FOR CONSTRUCTION  
SEP 17 2014

JEFFREY C. HANSOY  
No. 5238  
REGISTERED PROFESSIONAL ENGINEER



GRADING AND DRAINAGE DETAILS 1

PROJECT #: 2.134.48 SHEET 4 OF 9  
SCALE: AS SHOWN  
DRAWN BY: BJC  
CHECKED BY: JCH  
DATE: SEPT. 11, 2014

4

2.134.48 Jones Pond Improvements.dwg

**CONSTRUCTION MAINTENANCE:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION, MAINTENANCE AND REPAIR TO ALL DRAINAGE STRUCTURES AND RELATED APPURTENANCES ON THE SITE DURING CONSTRUCTION AND FOR A MAXIMUM OF ONE (1) YEAR FOLLOWING COMPLETION OF CONSTRUCTION. AT WHICH TIME THE DRAINAGE STRUCTURES AND APPURTENANCES ARE TO BE ACCEPTED BY THE ENGINEER AND THE CITY OF EAST PROVIDENCE.

- ALL CATCH BASINS AND STORM DRAIN PIPES SHALL BE CLEANED OF SEDIMENT. STORMWATER BASINS SHALL BE CLEANED OF SEDIMENT TO THE DESIGN GRADES INDICATED ON THE CONSTRUCTION DRAWINGS.
- INSPECTION OF THE BASINS AND ALL INLET AND OUTLET STRUCTURES SHALL BE PERFORMED ON A WEEKLY BASIS, PREFERABLY DURING A STORM EVENT TO INSPECT FOR PROPER FUNCTIONING OF THE FACILITY.
- GRASSES MUST BE PLANTED AROUND AND WITHIN THE STORMWATER BASIN IMMEDIATELY FOLLOWING CONSTRUCTION TO STABILIZE THE SLOPES AND PREVENT EROSION.
- SEDIMENTS SHALL BE REMOVED FROM DRAINAGE STRUCTURES AND THE STORMWATER BASINS IMMEDIATELY FOLLOWING SITE STABILIZATION AND DURING THE FIRST (INITIAL) YEAR OF OPERATION.
- ALL COSTS INCURRED FOR MAINTENANCE, CLEANING, AND INSPECTION ARE THE RESPONSIBILITY OF THE CONTRACTOR DURING CONSTRUCTION AND THE PROPERTY OWNER UPON ACCEPTANCE.
- ANY INADVERTENT OR DELIBERATE DISCHARGE OF WASTE OIL OR ANY OTHER POLLUTANT TO THE STORMWATER DISPOSAL SYSTEM REQUIRES IMMEDIATE NOTIFICATION OF THE RIDEM.
- ALL TRASH AND LITTER AND OTHER DEBRIS SHALL BE REMOVED FROM ANY STORMWATER FACILITY DAILY, INCLUDING INLET AND OUTLET STRUCTURES.
- REPAIRS OR REPLACEMENT OF INLET/OUTLET STRUCTURES, RIP-RAP CHANNELS, FENCES, OR OTHER ELEMENTS OF THE FACILITY DURING CONSTRUCTION SHALL BE DONE WITHIN 30 DAYS OF DEFICIENCY REPORTS.
- PAVEMENT LOT SWEEPING SHALL BE PERFORMED UPON COMPLETION OF THE PROJECT.
- WATER SHALL BE USED TO MOISTEN EXPOSED SOIL SURFACES PERIODICALLY. AN ADEQUATE AMOUNT SHOULD BE USED TO CONTROL DUST.

**BMP CONSTRUCTION SEQUENCE:**

**GENERAL:**

GREAT CARE SHALL BE GIVEN TO THE AREAS WHERE STRUCTURES WHICH REQUIRE INFILTRATION AS A MECHANISM FOR STORMWATER TREATMENT AND/OR DISPOSAL ARE PROPOSED PRIOR TO THEIR CONSTRUCTION. NO INFILTRATION STRUCTURE SHALL BE CONSTRUCTED NOR ACCEPTED RUN OFF UNTIL ALL UP-GRADE AREAS OF THE WATERSHED HAVE BEEN BUILT AND FULLY STABILIZED SO AS TO HAVE NO POTENTIAL FOR SEDIMENT OR SILT DEPOSITION. ONCE THE ENTIRE SITE IS STABILIZED ALL SESC MEASURES SHALL BE REMOVED.

THE DESIGN SEED MIX FOR ALL PERMANENT STORMWATER BASINS SHALL BE COMPRISED OF THE FOLLOWING AND PLANTED IN A MINIMUM OF A 6" DEPTH OF SANDY LOAM FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS.

TYPE	% BY WEIGHT
CREeping RED FESCUE	70
KENTUCKY BLUEGRASS	15
TALL FESCUE	15

APPLICATION RATE 100 LBS/ACRE  
LIME AND FERTILIZE AS REQUIRED TO COMPLIMENT OR UPGRADE EXISTING CONDITIONS.

**WET SWALES:**

INSTALL PLANTINGS PER LANDSCAPE PLAN.

**POLLUTION PREVENTION PLAN:**

**GENERAL:**

LONG-TERM MANAGEMENT OF THE POLLUTION PREVENTION PLAN SHALL BE THE RESPONSIBILITY OF THE OWNER.

OWNER: CITY OF EAST PROVIDENCE  
145 TAUNTON AVENUE  
EAST PROVIDENCE, RI 02914

THE CONTRACTOR SHALL MANAGE THE POLLUTION PREVENTION PLAN DURING THE CONSTRUCTION PROCESS.

**CONTRACTOR: TBD**

**SOLID WASTE CONTAINMENT:**

- TRASH RACKS WHERE PRACTICAL SHALL BE INSTALLED AND MAINTAINED ON ALL INLET STRUCTURES WITHIN THE DRAINAGE SYSTEM. INSPECTIONS FOR TRASH SHOULD BE IN ACCORDANCE WITH THE LONG-TERM MAINTENANCE SCHEDULE.
- TRASH RECEPTACLES SHALL BE PROVIDED THROUGHOUT THE DEVELOPMENT.
- STREET SWEEPING SHALL BE PERFORMED ON AN ANNUAL BASIS.
- PET WASTE DISPOSAL STATIONS SHALL BE PROVIDED WHERE APPLICABLE.

**SNOW DISPOSAL AND DEICING:**

- SAND AND DEICING MATERIALS SHALL BE STORED UNDER COVER ON SITE TO PREVENT EXPOSURE TO STORMWATER.
- SNOW REMOVAL SHALL BE PERFORMED IN ACCORDANCE WITH RIDEM'S SNOW DISPOSAL POLICY.

**DRIVEWAY AND PARKING LOT SEALANTS:**

- ONLY ASPHALT BASED SEALANTS ARE ALLOWED, NO COAL-TAR BASED SEALANTS SHALL BE USED ON THIS SITE.

**HAZARDOUS MATERIALS CONTAINMENT:**

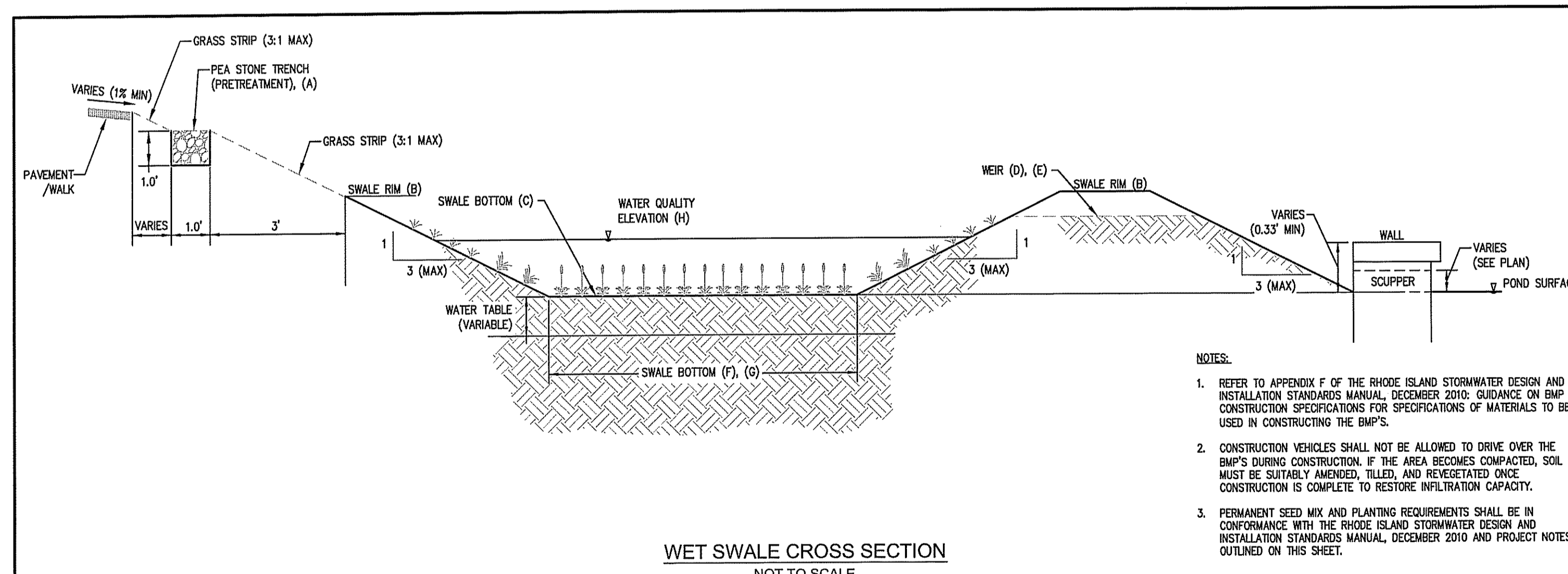
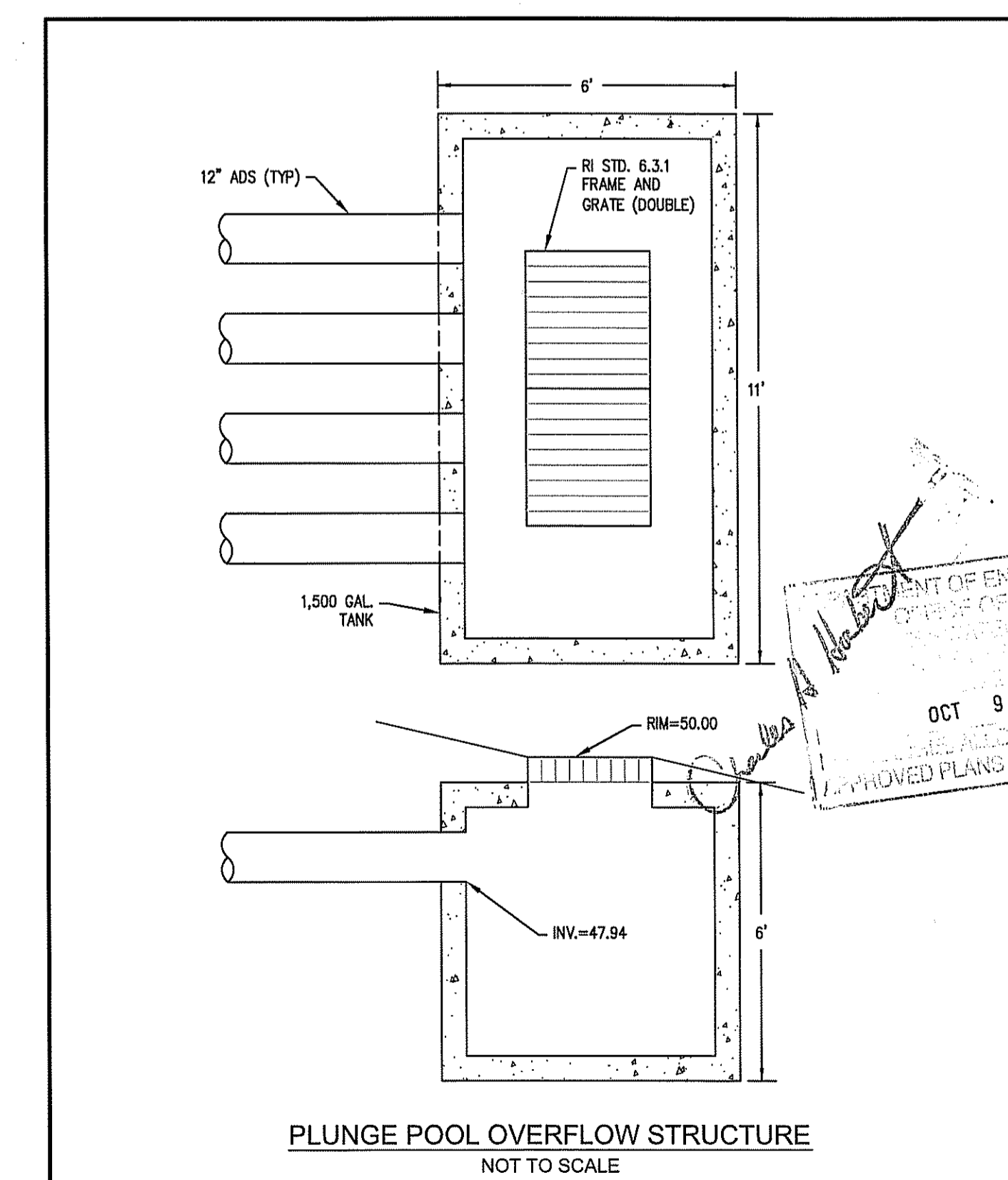
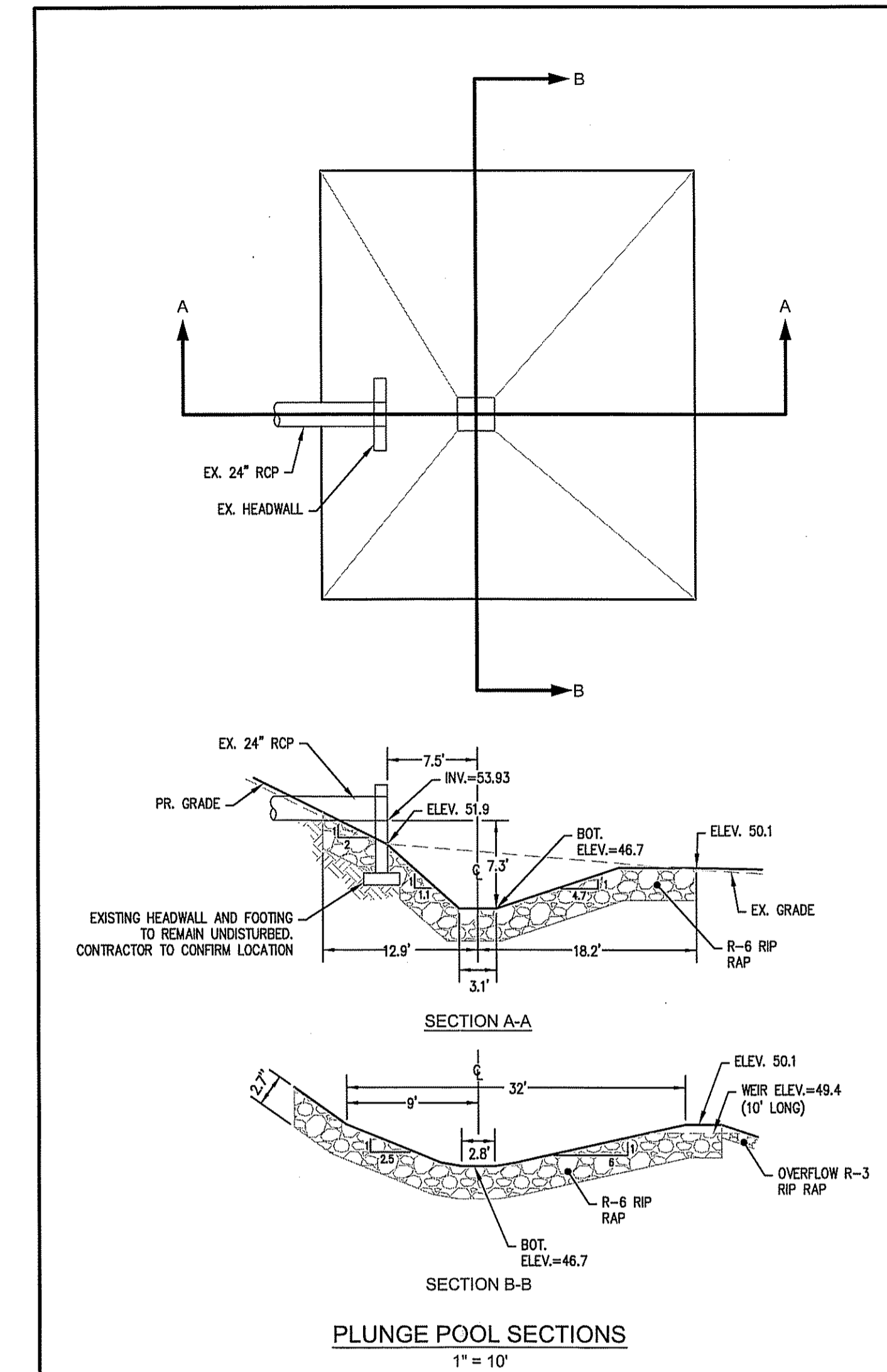
- NO HAZARDOUS MATERIALS SHALL BE STORED OUTSIDE TO AVOID EXPOSURE TO STORMWATER.

**LANDSCAPE MANAGEMENT:**

- GRASS CLIPPINGS FROM LAWN CARE PROCEDURES MAY NOT BE STOCKPILED ON SITE. THEY MUST BE EITHER SCATTERED WHILE MOWING OR COLLECTED AND DISPOSED OF OFF SITE.
- GENERAL LAWN HEIGHTS (EXCLUDING STORMWATER BASINS) ON SITE SHALL BE KEPT AT A 2-3" HEIGHT.
- FERTILIZER AND WATERING DEMANDS SHOULD BE HAVE PROFESSIONAL OVERSIGHT AND BE LIMITED TO THE MAXIMUM EXTENT PRACTICAL.

**LONG-TERM MAINTENANCE SCHEDULE:**

- INSPECTION OF THE BMP'S AND ALL INLET AND OUTLET STRUCTURES SHALL BE PERFORMED AFTER STORMS EQUAL TO OR GREATER THAN THE 1-YEAR, 24-HOUR TYPE III STORM (1.2" EVENT) AND AT LEAST ONCE ANNUALLY, PREFERABLY DURING A STORM EVENT TO INSPECT FOR PROPER FUNCTIONING OF THE FACILITY. CONSTRUCTION INSPECTIONS MAY BE REQUIRED DURING THE FIRST 6 MONTHS OF OPERATION OF THE STORMWATER FACILITY.
- TREE AND SHRUBS SHALL NOT BE PLANTED ON ANY IMPOUNDING EMBANKMENTS TO PREVENT POTENTIAL SUBSURFACE DISTURBANCE AND POSSIBLE FAILURE OF THE STRUCTURE.
- SEDIMENTS SHALL BE REMOVED FROM DRAINAGE STRUCTURES AND THE BASINS IMMEDIATELY FOLLOWING SITE STABILIZATION, DURING THE FIRST (INITIAL) YEAR OF OPERATION AND EVERY 10 YEARS THEREAFTER.
- SIDE SLOPES AND EMBANKMENTS OF THE BASIN SHALL BE INSPECTED FOR WOODY GROWTH AT LEAST ONCE DURING THE GROWING SEASON (PREFERABLY AFTER AUGUST 15TH). WOODY GROWTH SHALL BE REMOVED IF FOUND. ALL TRASH AND LITTER SHALL BE REMOVED FROM THE BASINS DURING THIS PROCESS.
- ERODED SIDE SLOPES AND CHANNEL BOTTOMS SHALL BE STABILIZED AS NECESSARY.
- ALL COSTS INCURRED FOR MAINTENANCE, CLEANING, AND INSPECTION ARE THE RESPONSIBILITY OF THE PROPERTY OWNER AND/OR RESPONSIBLE PARTY. IN CERTAIN CASES, THE APPROPRIATE DEM PROGRAM MAY REQUIRE DOCUMENTATION OF MAINTENANCE.
- ANY INADVERTENT OR DELIBERATE DISCHARGE OF WASTE OIL OR ANY OTHER POLLUTANT TO THE STORMWATER DISPOSAL SYSTEM REQUIRES IMMEDIATE NOTIFICATION OF THE DEM OIL POLLUTION CONTROL PROGRAM AT 222-2284, AS PER OIL POLLUTION CONTROL REGULATIONS. DURING NON-WORKING HOURS, NOTIFICATION OF SPILLS CAN BE MADE TO THE DEM DIVISION OF ENFORCEMENT AT 222-3070, THE 24-HOUR EMERGENCY RESPONSE PHONE NUMBER.
- ALL TRASH, LITTER AND OTHER DEBRIS SHALL BE REMOVED FROM ANY STORMWATER FACILITY INCLUDING INLET AND OUTLET STRUCTURES. THIS MUST BE ACCOMPLISHED AT LEAST TWICE PER YEAR, PREFERABLY IN THE SPRING AND FALL.
- VEGETATION IN THE BMP'S SHALL BE MOWED AS REQUIRED TO MAINTAIN GRASS HEIGHTS IN THE 4-6 INCH RANGE WITH MANDATORY MOWING ONCE THE GRASS REACHES 10 INCHES IN HEIGHT.
- SEDIMENT BUILD-UP WITHIN THE CHANNEL OR FILTER STRIP SHALL BE REMOVED WHEN 25% OF THE ORIGINAL WATER QUALITY VOLUME HAS BEEN EXCEEDED. FOLLOWING SEDIMENT REMOVAL, PLANTINGS TO BE REPAIRED IN ACCORDANCE WITH ORIGINAL LANDSCAPE DESIGN ILLUSTRATED ON LANDSCAPE PLAN.
- REPAIRS OR REPLACEMENT OF INLET/OUTLET STRUCTURES, RIP-RAP CHANNELS, FENCES, OR OTHER ELEMENTS OF THE FACILITY SHALL BE COMPLETED WITHIN 30 DAYS OF DEFICIENCY REPORTS. IF AN EMERGENCY SITUATION IS IMMINENT THEN REPAIR/REPLACEMENT MUST BE COMPLETED IMMEDIATELY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION, MAINTENANCE AND REPAIR TO ALL DRAINAGE STRUCTURES AND RELATED APPURTENANCES ON THE SITE DURING CONSTRUCTION AND FOR A MAXIMUM OF ONE (1) YEAR FOLLOWING COMPLETION OF CONSTRUCTION, AT WHICH TIME THE DRAINAGE STRUCTURES AND APPURTENANCES ARE ACCEPTED BY THE ENGINEER AND THE CITY OF EAST PROVIDENCE.
- FOLLOWING ACCEPTANCE, THE LONG-TERM MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE OWNER UNTIL IT IS DEEDED TO ANOTHER RESPONSIBLE ENTITY.



STRUCTURAL BMP	BMP TYPE	SIDE SLOPES (H-V)	PEA STONE TRENCH LENGTH (A)	SWALE RIM ELEVATION (B)	SWALE BOTTOM ELEVATION (C)	WEIR ELEVATION (D)	WEIR LENGTH (E)	SWALE BOTTOM WIDTH (F)	SWALE BOTTOM LENGTH (G)	WATER QUALITY W.S. ELEV (H)	2-YEAR W.S. ELEVATION	10-YEAR W.S. ELEVATION
A	WET SWALE	3:1 MAX.	97'	49.00	47.70	48.50	10'	PER PLAN	PER PLAN	47.70	48.52	48.79
B	WET SWALE	3:1 MAX.	119'	49.00	47.70	48.50	10'	PER PLAN	PER PLAN	47.70	48.53	48.92
C	WET SWALE	3:1 MAX.	64'	49.00	47.70	48.50	10'	PER PLAN	PER PLAN	48.00	48.11	48.53

**REVISIONS**


**REFERENCES:**

**JONES POND IMPROVEMENTS PROJECT RIDEM SUBMISSION**

A. P. 17, BLOCK 22, LOT 1  
FIFTH STREET  
EAST PROVIDENCE, RI

**PREPARED FOR:**  
THE CITY OF EAST PROVIDENCE

**KEVIN M. ALVERSON, LA**  
LANDSCAPE ARCHITECTURE  
360 ANNAGATUCKET ROAD  
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**JEFFREY C. HANSON**  
No. 5238  
REGISTERED PROFESSIONAL ENGINEER  
OCT 9 2014  
APPROVED PLANS MUST BE USED AT CONSTRUCTION SITE

**GRADING AND DRAINAGE DETAILS 2**

PROJECT #: 2.134.48 SHEET 5 OF 9

SCALE: AS SHOWN  
DRAWN BY: BJC  
CHECKED BY: JCH  
DATE: SEPT. 11, 2014

**5**

**GENERAL NOTES:**

1. THE STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, AND THE RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO. THE 2004 REVISION OF THE STANDARD SPECIFICATIONS MAY BE OBTAINED AT THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION, DIVISION OF PUBLIC WORKS. IN ADDITION, RHODE ISLAND STANDARD DESIGN AND INSTALLATION STANDARDS MANUAL (DECEMBER 2010) AND THE CITY OF EAST PROVIDENCE STANDARD SPECIFICATIONS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO.
2. ALL REQUIRED SITE IMPROVEMENTS SHALL BE INSPECTED BY THE TOWN ENGINEER TO ENSURE SATISFACTORY COMPLETION. AT LEAST A 48-HOUR NOTICE SHALL BE GIVEN TO THE CITY ENGINEER PRIOR TO ANY SUCH START OF CONSTRUCTION. A FINAL INSPECTION OF ALL SITE IMPROVEMENTS, UTILITIES AND GRADING WILL BE MADE TO DETERMINE WHETHER THE WORK IS SATISFACTORY AND IN SUBSTANTIAL AGREEMENT WITH THE APPROVED FINAL CONSTRUCTION DRAWING AND THE TOWN SPECIFICATIONS.
3. LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL CHECK AND VERIFY LOCATIONS OF ALL EXISTING UTILITIES BOTH UNDERGROUND AND OVERHEAD PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES AS SHOWN OR NOT SHOWN ON THE PLANS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. COSTS OF SUCH DAMAGE SHALL BE BORNE BY THE CONTRACTOR. NO EXCAVATION SHALL BE DONE UNTIL ALL INVOLVED UTILITY COMPANIES ARE NOTIFIED 72-HOURS IN ADVANCE. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY DIG-SAFE (1-888-344-7233) A MINIMUM OF 72 WORKING HOURS, EXCLUDING WEEKENDS AND HOLIDAYS, PRIOR TO THE START OF ANY EXCAVATION AND/OR BLASTING WORK. THE NAME OF THE COMPANY PERFORMING THE EXCAVATION AND/OR BLASTING WORK MUST BE SUPPLIED TO DIG-SAFE, IF IT IS DIFFERENT FROM THE CALLER.
4. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN ANY AND ALL PERMITS REQUIRED BY THE STATE OF RHODE ISLAND, FEDERAL GOVERNMENT AND/OR THE CITY OF EAST PROVIDENCE PRIOR TO COMMENCING ANY WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS.
6. UNLESS OTHERWISE SPECIFIED, ALL STORM DRAINS SHALL BE ADVANCED DRAINAGE SYSTEMS, (ADS) N-12, SMOOTH INTERIOR PIPE OR APPROVED EQUAL.
7. ALL MATERIAL FOR FILL SHALL BE CLEAN AND FREE OF MATTER WHICH COULD POLLUTE ANY DOWN STREAM WATERCOURSE.
8. FILL MATERIAL SHALL BE COMPACTED IN ONE FOOT (MAXIMUM) LIFTS TO 95% COMPACTION.
9. CONTRACTOR SHALL PROVIDE OWNER WITH COMPLETE AS-BUILT DRAWINGS OF ALL INFRASTRUCTURE AS-BUILT DRAWINGS SHALL BE CERTIFIED BY A RHODE ISLAND LICENSED PROFESSIONAL LAND SURVEYOR OR PROFESSIONAL ENGINEER.
10. VERTICAL DATUM: NGVD 1988
11. ALL EXISTING PAVEMENT WITHIN THE LIMIT OF DISTURBANCE IS TO BE REMOVED AND DISPOSED.

**CONSTRUCTION SEQUENCE / NARRATIVE**

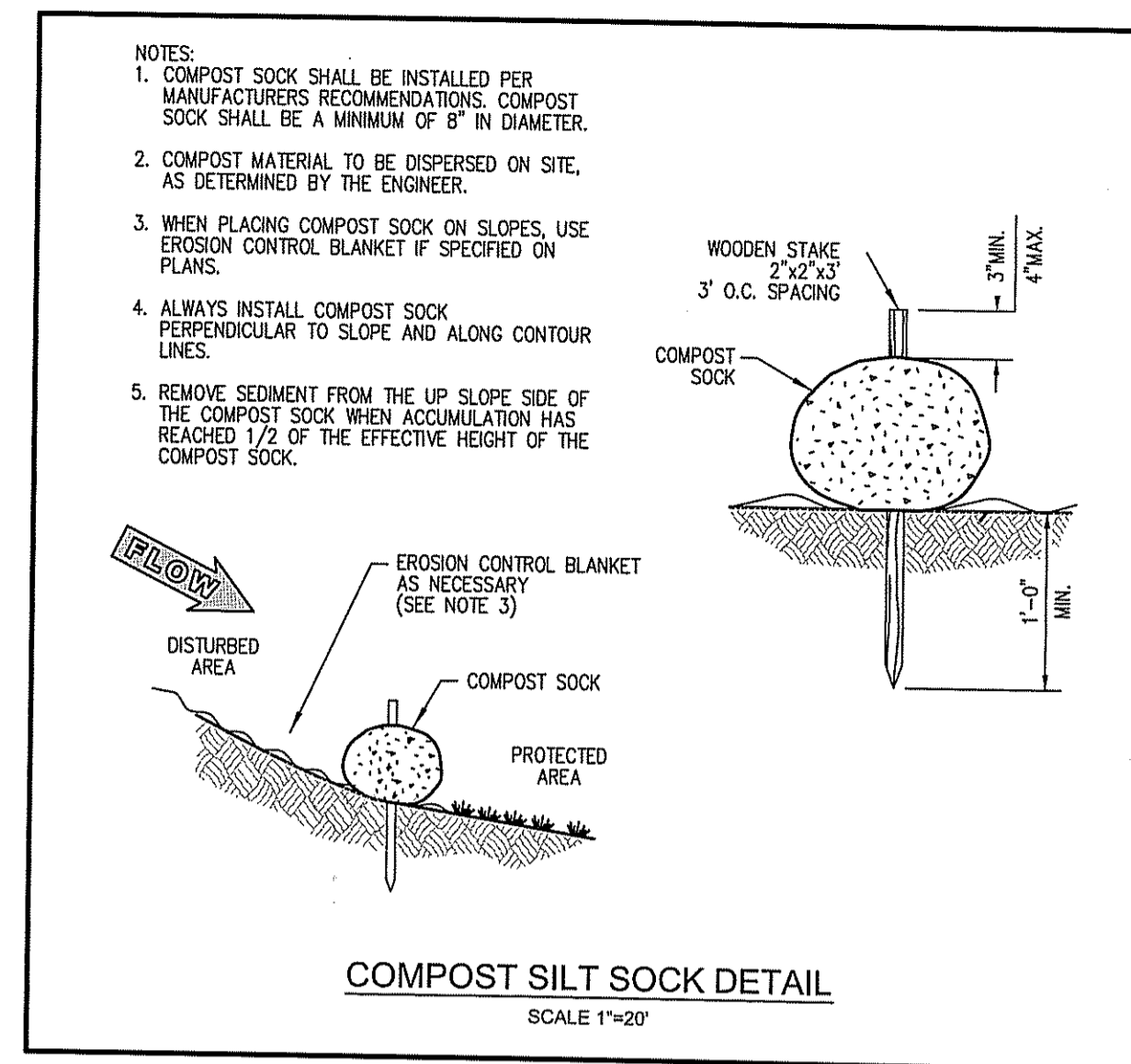
1. OBTAIN APPLICABLE PERMITS.
2. NOTIFY ALL APPROPRIATE STATE, REGIONAL AND CITY DEPARTMENTS PRIOR TO THE START OF CONSTRUCTION.
3. BEGIN CONSTRUCTION.
4. CONSTRUCT RI STD 9.9.0 CONSTRUCTION ACCESS (ES).
5. INSTALL SILT FENCE / STAKED HAYBALE LINE / SILT SOCK.
6. ROAD EXISTING PAVEMENT.
7. CLEAN, GRUB, AND STOCKPILE TOPSOIL (IF REQUIRED).
8. EXCAVATE / PLACE COMPACTED FILL IN ACCORDANCE WITH THE GRADING PLAN.
9. INSTALL PROPOSED STORM DRAINAGE SYSTEM, WORK DOWNSTREAM TO UPSTREAM. PLACE INLET PROTECTION WHERE REQUIRED.
10. INSTALL WALKS, CURBING AND PAVEMENT.
11. FINE GRADE, SPREAD TOPSOIL, SEED AND STABILIZE EXPOSED EARTH.
12. CLEAN / FLUSH STORM DRAINAGE SYSTEM.
13. ONCE SEEDS GERMINATE AND EARTH IS STABILIZED, REMOVE SILT FENCE / HAYBALE LINE AND INLET PROTECTION.
14. END CONSTRUCTION.

**EROSION CONTROL AND SOIL STABILIZATION PROGRAM:**

1. DENUDE SLOPES SHALL NOT BE LEFT EXPOSED FOR EXCESSIVE PERIODS OF TIME, SUCH AS THE INACTIVE WINTER SEASONS.
2. TEMPORARY TREATMENTS SHALL CONSIST OF HAY, STRAW, FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSDOR BLANKETS). THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
3. HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 2000 LBS/ACRE.
4. ALL HAYBALES OR TEMPORARY PROTECTION SHALL REMAIN IN-PLACE UNTIL AN ACCEPTABLE STAND OF GRASS, RIP-RAP OR APPROVED GROUND COVER IS ESTABLISHED.
5. THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM WITH RHODE ISLAND STANDARD SPECIFICATION M.18.02.
6. REFER TO LANDSCAPE DETAILS FOR SEEDING MIX AND NOTES.
7. 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.
8. THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1ST THROUGH OCTOBER 15TH.
9. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN FIFTEEN (15) DAYS OF FINAL GRADING.
10. STOCKPILES OF TOPSOIL AND EARTH MATERIALS SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN THIRTY PERCENT (30%), SHALL ALSO BE SEEDED AND/OR STABILIZED AND SHALL BE COMPLETELY ENCLOSED WITH STAKED HAY BALES AND/OR SILT FENCE. (SEE DETAIL).
11. ON BOTH STEEP AND LONG SLOPES, CONSIDERATION SHOULD BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.
12. TREES TO BE RETAINED SHALL BE FENCED OR ROPED OFF TO PROTECT THEM FROM CONSTRUCTION EQUIPMENT.
13. ALL PROPOSED PLANTINGS AND PLACEMENT OF RIP-RAP MUST BE ACCOMPLISHED AS EARLY AS POSSIBLE UPON COMPLETION OF GRADING AND CONSTRUCTION, AND AT LEAST PRIOR TO ANY ON-SITE OCCUPANCY.
14. ALL DISTURBED AREAS MUST BE SEED, PLANTED OR RIP-RAPPED WITHIN THE CONSTRUCTION SEASON.
15. TEMPORARY SEEDING SHALL BE COMPLETED WITHIN ONE (1) MONTH AFTER DISTURBANCE.
16. ALL DISTURBED AREAS MUST BE PERMANENTLY SEED, PLANTED OR RIP-RAPPED BEFORE OCTOBER 1ST, IF NOT THEY MUST BE TEMPORARILY SEED.
17. CONTRACTOR MAY LOCATE STOCKPILE AREAS WITHIN THE LIMIT OF DISTURBANCE ON THE SITE. SEE DETAIL.
18. HAYBALES AND/OR SILT FENCE MAY BE USED IN LIEU OF SILT SOCK. CONTRACTOR TO SUBMIT CUT SHEET TO ENGINEER FOR APPROVAL.
19. RIP RAP SHALL BE PLACED ON ALL FINISHED SLOPES STEEPER THAN 2:1 (2' HORIZONTAL TO 1' VERTICAL).

**SEDIMENTATION CONTROL PROGRAM:**

1. EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING DOWNSTREAM WATERCOURSES AND STORMWATER DRAINAGE SYSTEMS.
2. DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUN-OFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
3. SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.
4. CARE SHALL BE TAKEN SO AS NOT TO PLACE "REMOVED SEDIMENTS" WITHIN THE PATH OF EXISTING, NEWLY CREATED (BOTH TEMPORARY AND PERMANENT) OR PROPOSED WATERCOURSES OR THOSE AREAS SUBJECTED TO STORMWATER FLOWAGE.
5. SEDIMENTATION TRAPS SHALL BE PROVIDED AT ALL DRAINAGE STRUCTURES DURING CONSTRUCTION.
6. EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AT THE SITE PRIOR TO THE START OF CONSTRUCTION AND BE PROPERLY MAINTAINED UNTIL ALL DISTURBED AREAS ARE STABILIZED INCLUDING:
  - A. THE INSTALLATION OF A CONTINUOUS LINE OF SILT SOCKS, STAKED HAYBALES, OR SILT FENCE IN ALL LOCATIONS SHOWN ON THE APPROVED SITE PLANS AND WHERE OTHERWISE NECESSARY TO PREVENT SEDIMENT FROM ENTERING DOWNSTREAM WATERCOURSES AND STORMWATER DRAINAGE SYSTEMS.
  - B. ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITH APPROVED GROUND COVER PRIOR TO THE COMPLETION OF THE PROJECT. AREAS EXPOSED FOR EXTENDED PERIODS ARE TO BE COMPLETELY COVERED WITH SPREAD HAY MULCH.
  - C. CATCH BASINS SHALL BE PROTECTED WITH HAYBALE FILTERS THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED. SUMPS ARE TO BE CLEANED IMMEDIATELY FOLLOWING INSTALLATION OF PERMANENT PAVEMENT.
  - D. OUTFALLS SHALL BE PROTECTED BY HAYBALE FILTERS UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED WITH APPROVED GROUND COVER.
  - E. ALL CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
7. THE LIMITS OF ALL CLEARING, GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THE LIMITS OF DISTURBANCE SHALL REMAIN TOTALLY UNDISTURBED.



**REVISIONS**

NO.	BY	DATE

**REFERENCES:**

STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION  
 RHODE ISLAND STANDARD DESIGN AND INSTALLATION STANDARDS MANUAL (DECEMBER 2010)  
 CITY OF EAST PROVIDENCE STANDARD SPECIFICATIONS

**JONES POND IMPROVEMENTS PROJECT RIDEM SUBMISSION**

A. P. 17, BLOCK 22, LOT 1  
 FIFTH STREET  
 EAST PROVIDENCE, RI



**PREPARED FOR:**  
 THE CITY OF EAST PROVIDENCE

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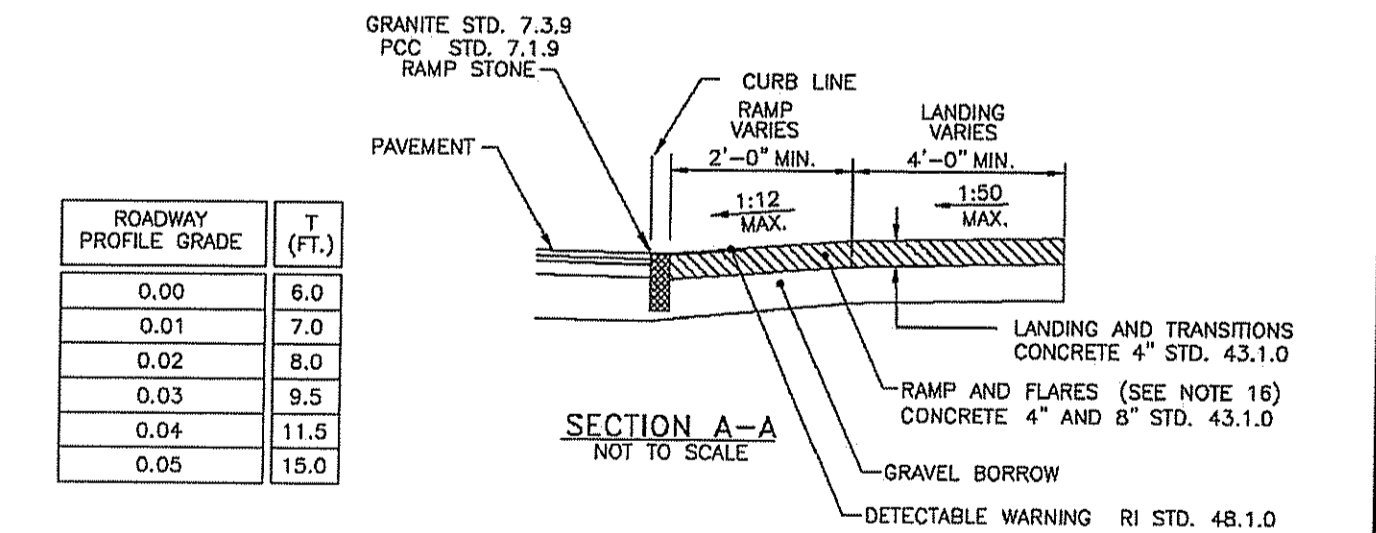
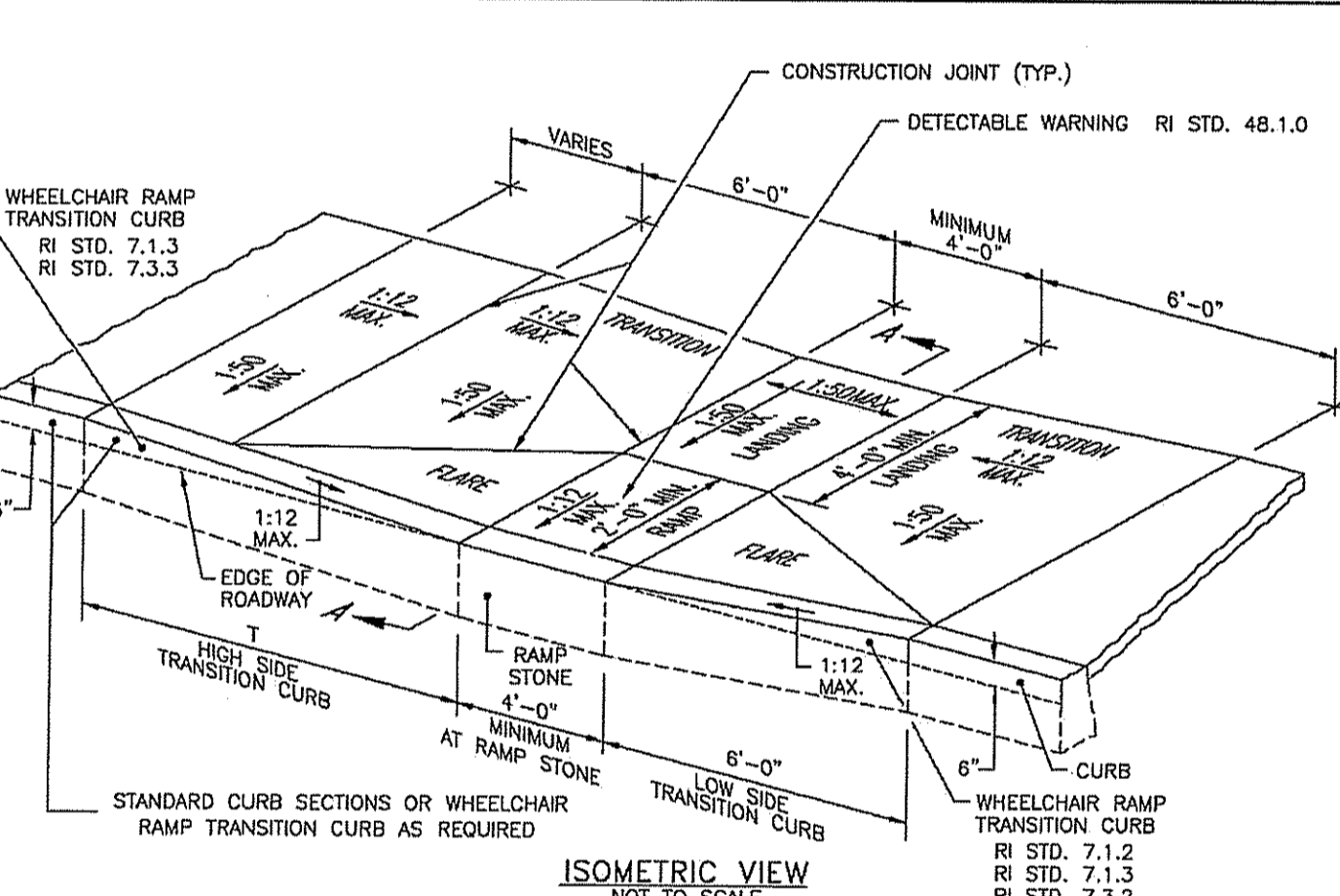
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**JEFFREY C. HANSON**  
 No. 5238  
 REGISTERED PROFESSIONAL ENGINEER  
 OCT 9 2014

**NOTES & DETAILS 1**

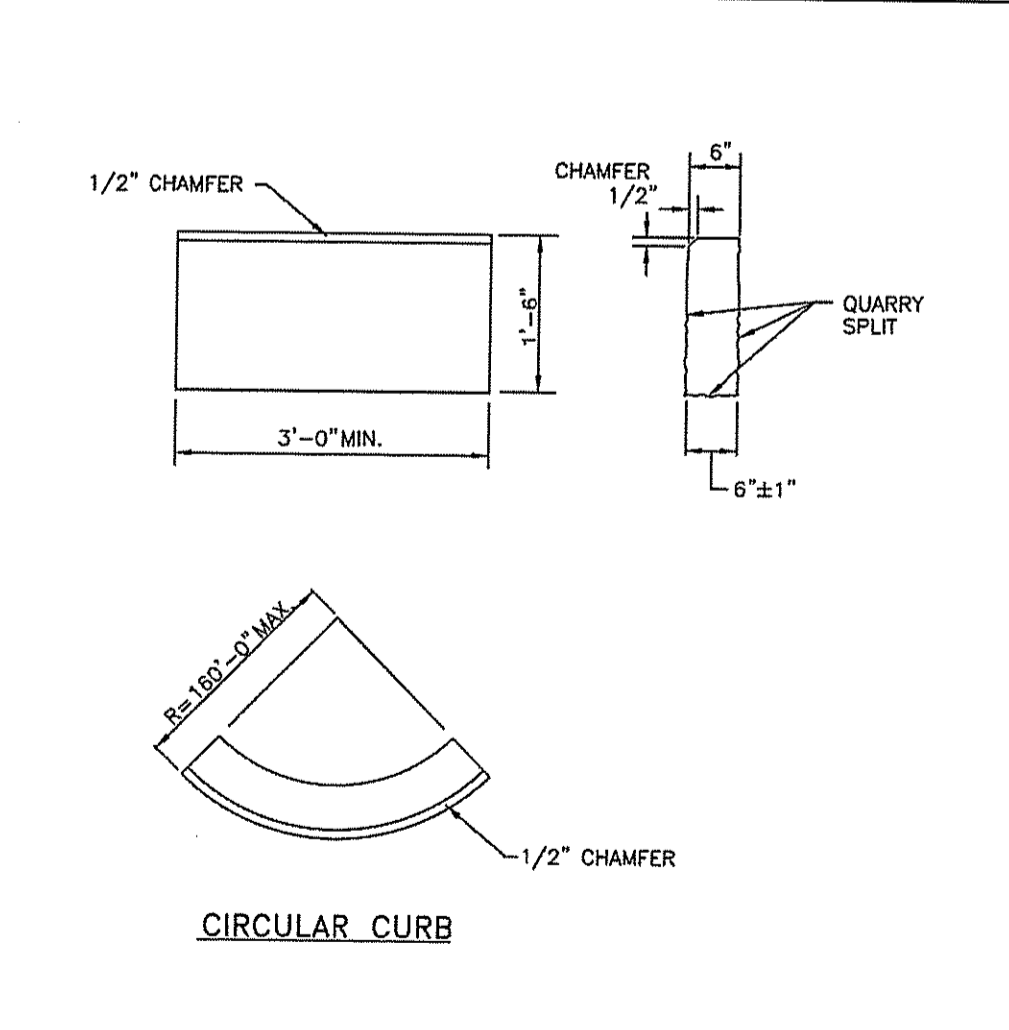
PROJECT #: 2.134.48 SHEET 6 OF 9

SCALE: AS SHOWN  
 DRAWN BY: BJC  
 CHECKED BY: JCH  
 DATE: SEPT. 11, 2014



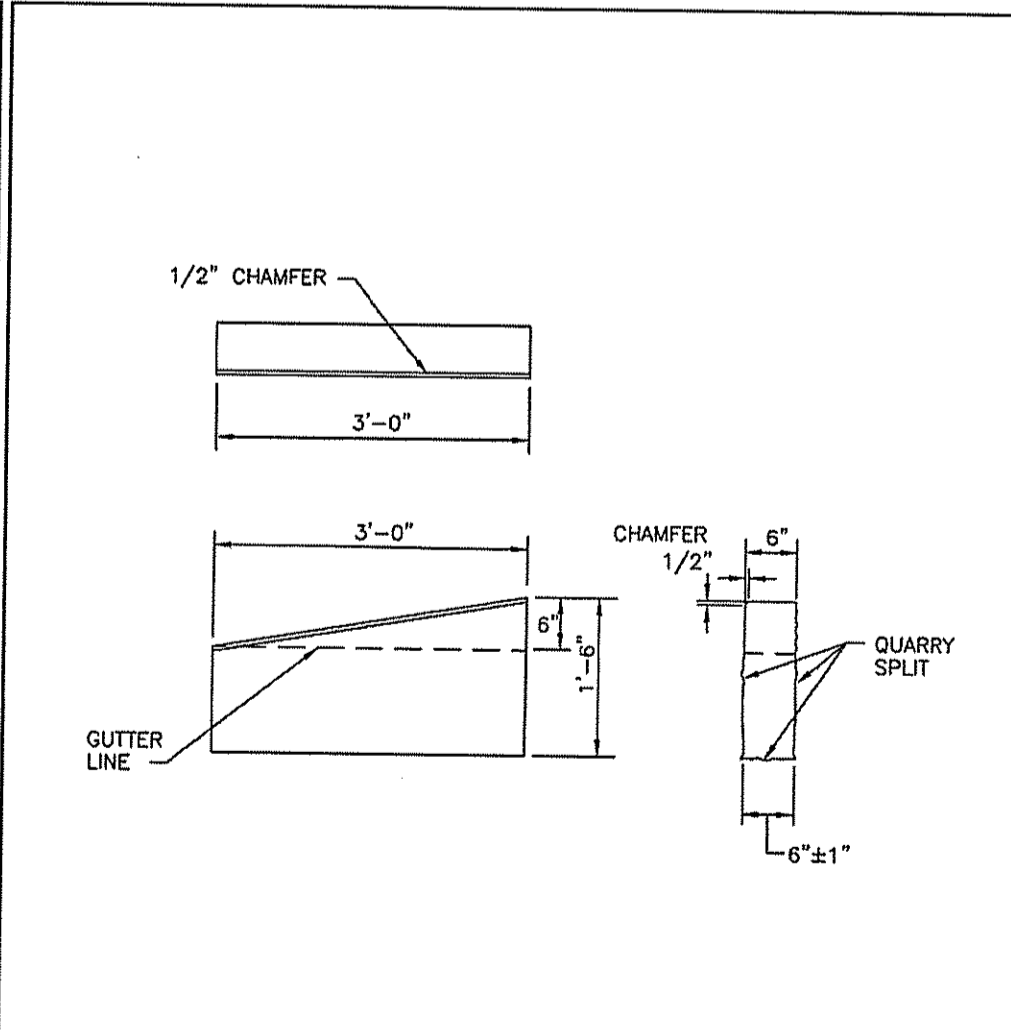
- NOTES:**
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
  2. WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, THE WHEELCHAIR RAMP SHALL BE PLACED SUCH THAT THE OBSTRUCTION FALLS OUTSIDE OF THE RAMP.
  3. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
  4. DRAINAGE FACILITIES ARE TO BE LOCATED UP-GRADE OF ALL WHEELCHAIR RAMPS.
  5. LOCATION OF WHEELCHAIR RAMPS IS AS SHOWN ON CONTRACT DRAWINGS.
  6. IN NO INSTANCE SHALL THE SIDEWALK CROSS SLOPE EXCEED 1:50 EXCEPT WITHIN THE RAMP AREA.
  7. AN UNOBTSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 4'-0" SHALL BE MAINTAINED.
  8. THE WHEELCHAIR RAMP SLOPE AND SIDE SLOPES (TRANSITIONS) MUST NOT BE STEEPER THAN 1:12. HOWEVER, THESE SLOPES MAY BE FLATTER THAN 1:12 WHEN WARRANTED BY SURROUNDING CONDITIONS.
  9. WHERE THE ROAD PROFILE EXCEEDS 5% THE HIGH SIDE TRANSITION LENGTH (T) SHALL BE EIGHTEEN FEET (18'-0").
  10. IN NO CASE, WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED BEHIND THE STOP LINE.
  11. THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
  12. THE WHEELCHAIR RAMP SHALL BE CENTERED RADIALLY OPPOSITE THE RADIUS POINT WHEN POSSIBLE.
  13. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
  14. ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.
  15. DETECTABLE WARNINGS TO BE PAID FOR UNDER SECTION 942 OF THE R.I. STANDARD SPECIFICATIONS.
  16. 8" CONCRETE DEPTH FOR RADIUS WHEELCHAIR RAMPS ONLY. USE 4" DEPTH FOR TANGENT (MID-BLOCK) LOCATIONS.

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION**  
**WHEELCHAIR RAMP**  
 R.I. STANDARD 43.3.0  
 JUN 15, 1998



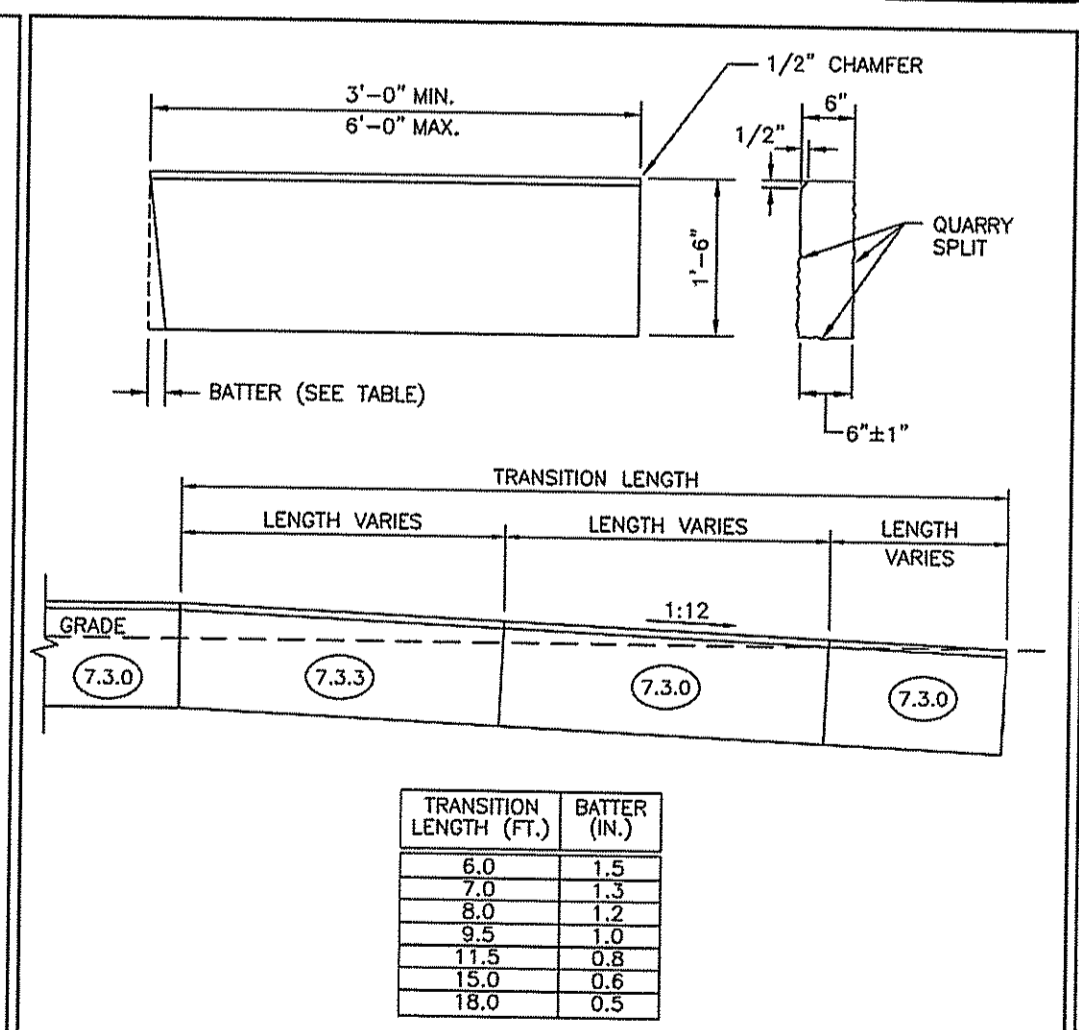
- NOTES:**
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
  2. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER MAY BE QUARRY SPLIT.
  3. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR PIECES TO BE 3'-0".
  4. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADI OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION**  
**GRANITE CURB**  
 R.I. STANDARD 7.3.0  
 JUN 15, 1998



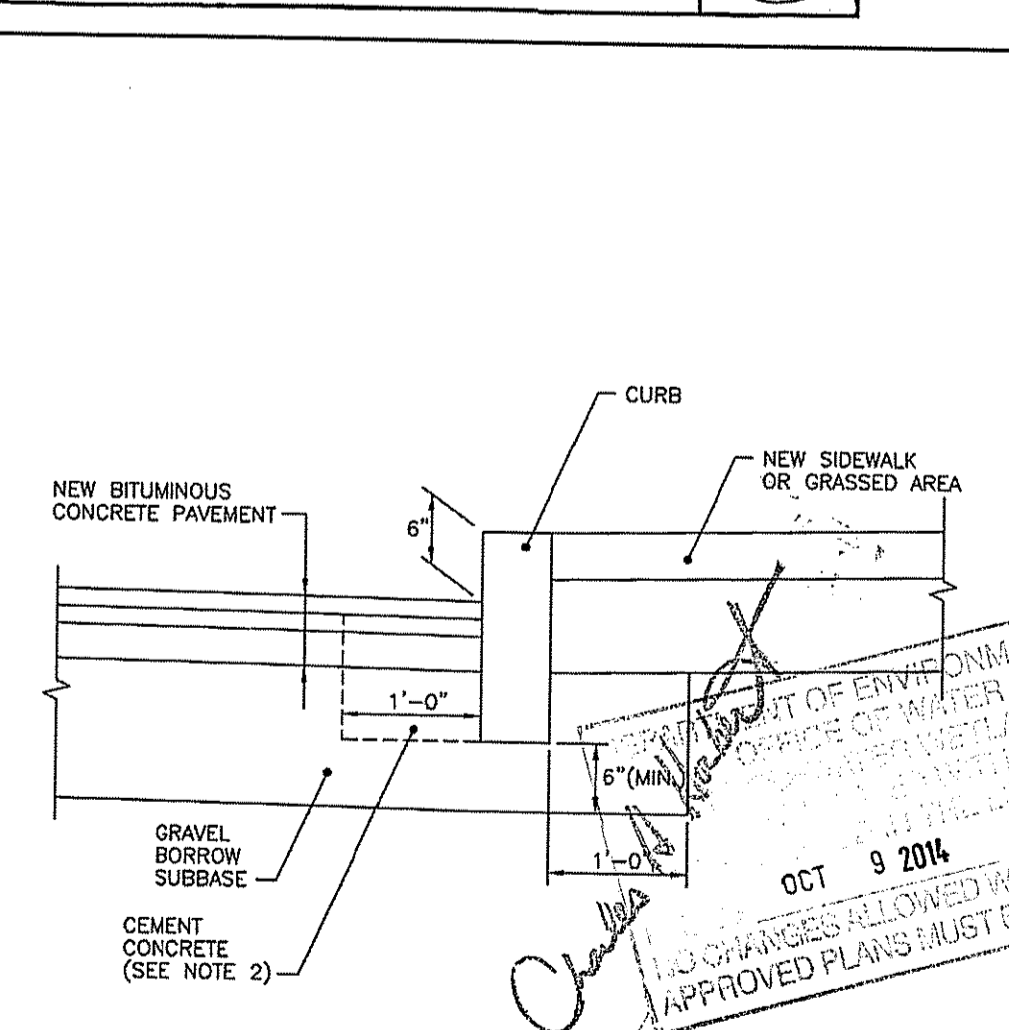
- NOTES:**
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
  2. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER MAY BE QUARRY SPLIT.

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION**  
**3'-0\"/>
 R.I. STANDARD 7.3.1  
 JUN 15, 1998**



- NOTES:**
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
  2. THE CONTRACTOR MAY CUT EXISTING CURB SECTIONS AS REQUIRED TO MEET THIS DETAIL AND THE R.I. STANDARD SPECIFICATIONS, WHERE OLD CURBING IS BEING REUSED.
  3. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR CURB FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
  4. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER MAY BE QUARRY SPLIT.

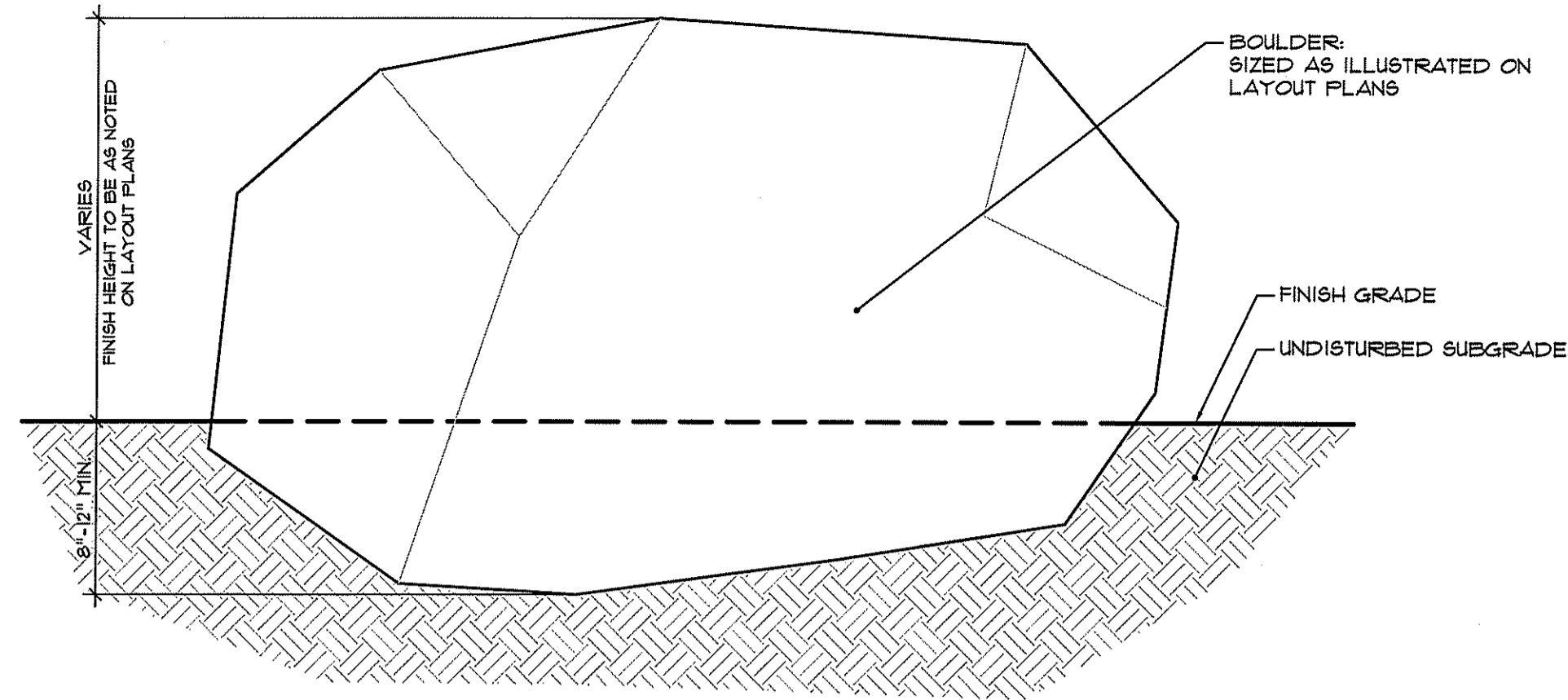
**RHODE ISLAND DEPARTMENT OF TRANSPORTATION**  
**GRANITE WHEELCHAIR RAMP TRANSITION CURB**  
 R.I. STANDARD 7.3.3  
 JUN 15, 1998



- NOTES:**
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
  2. CEMENT CONCRETE SHALL BE USED ONLY WHEN THE CURB IS SET AFTER THE BASE AND/OR BINDER COURSES ARE IN PLACE, OTHERWISE THE CEMENT CONCRETE WILL BE ELIMINATED AND THE GRAVEL BROUGHT UP TO BOTTOM OF THE BASE COURSE.

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION**  
**CURB SETTING DETAIL**  
 R.I. STANDARD 7.6.0  
 JUN 15, 1998

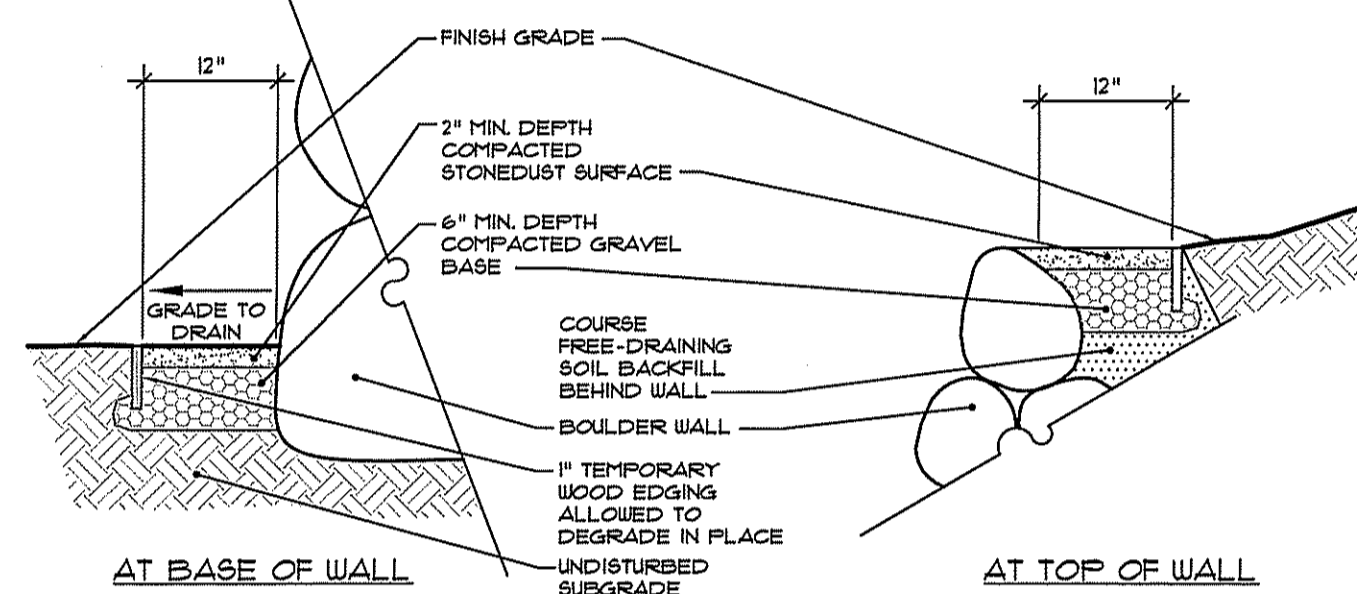
© Kevin M. Alverson, LA



NOTE: BOULDERS TO BE REVIEWED WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. FINAL ORIENTATION AND LOCATION OF BOULDER TO BE AS DIRECTED ON-SITE BY OWNER'S REPRESENTATIVE.

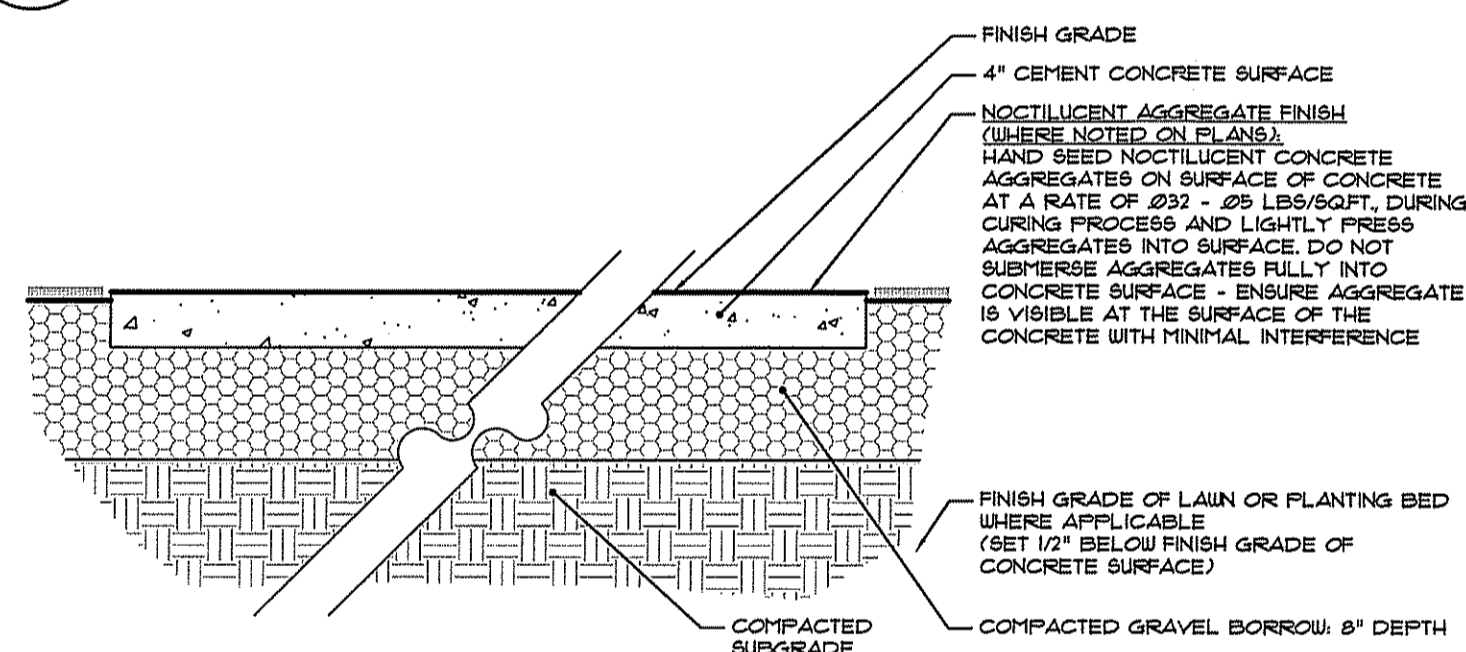
1 BOULDER SCULPTURE

NOT TO SCALE



2 STONEDUST WEED BARRIER AT BOULDER WALL

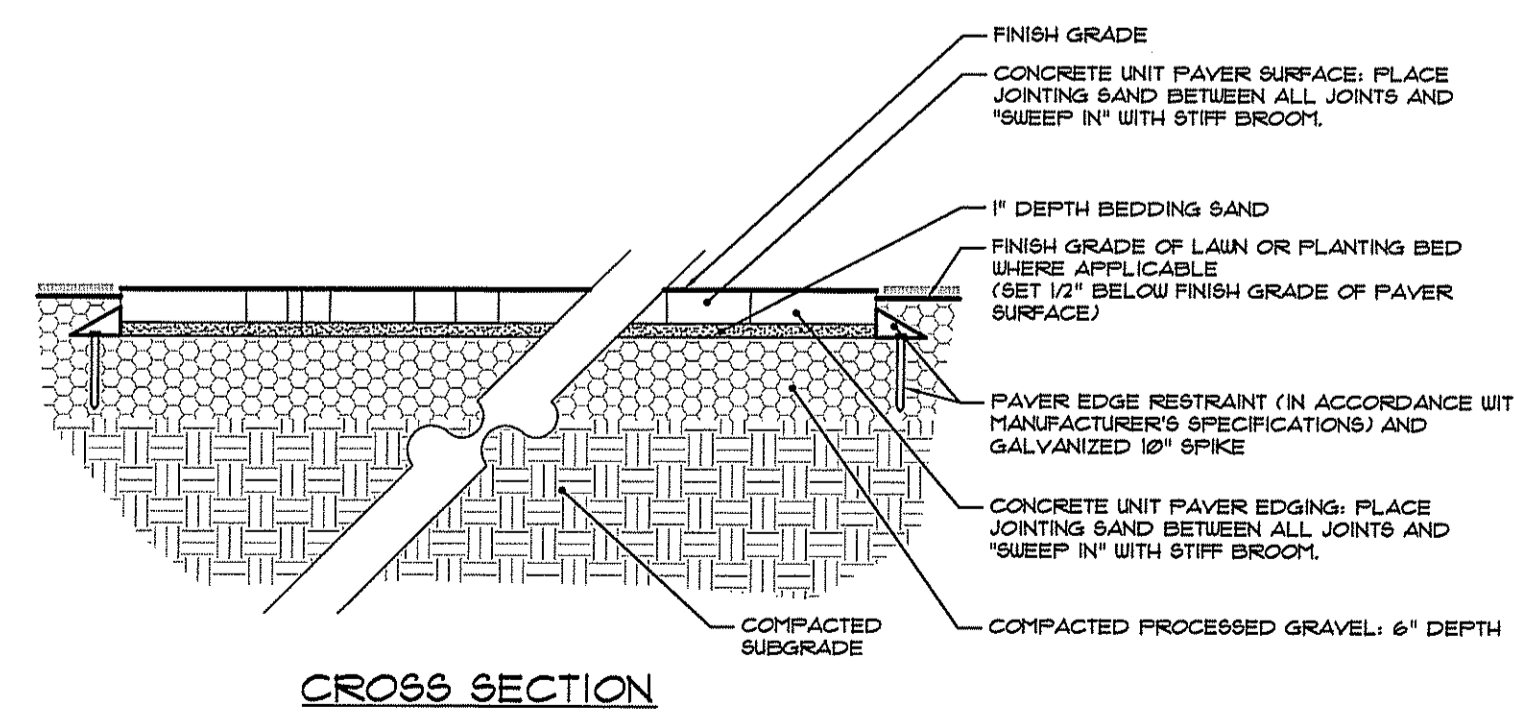
NOT TO SCALE



NOTES:  
1. CONCRETE SURFACE SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.  
2. WHERE NOTED ON PLANS NOCTILUCENT AGGREGATE SHALL BE SIMILAR TO NIGHTEC NOCTILUCENT CONCRETE AGGREGATES, OR APPROVED EQUAL.

3 CONCRETE SURFACE

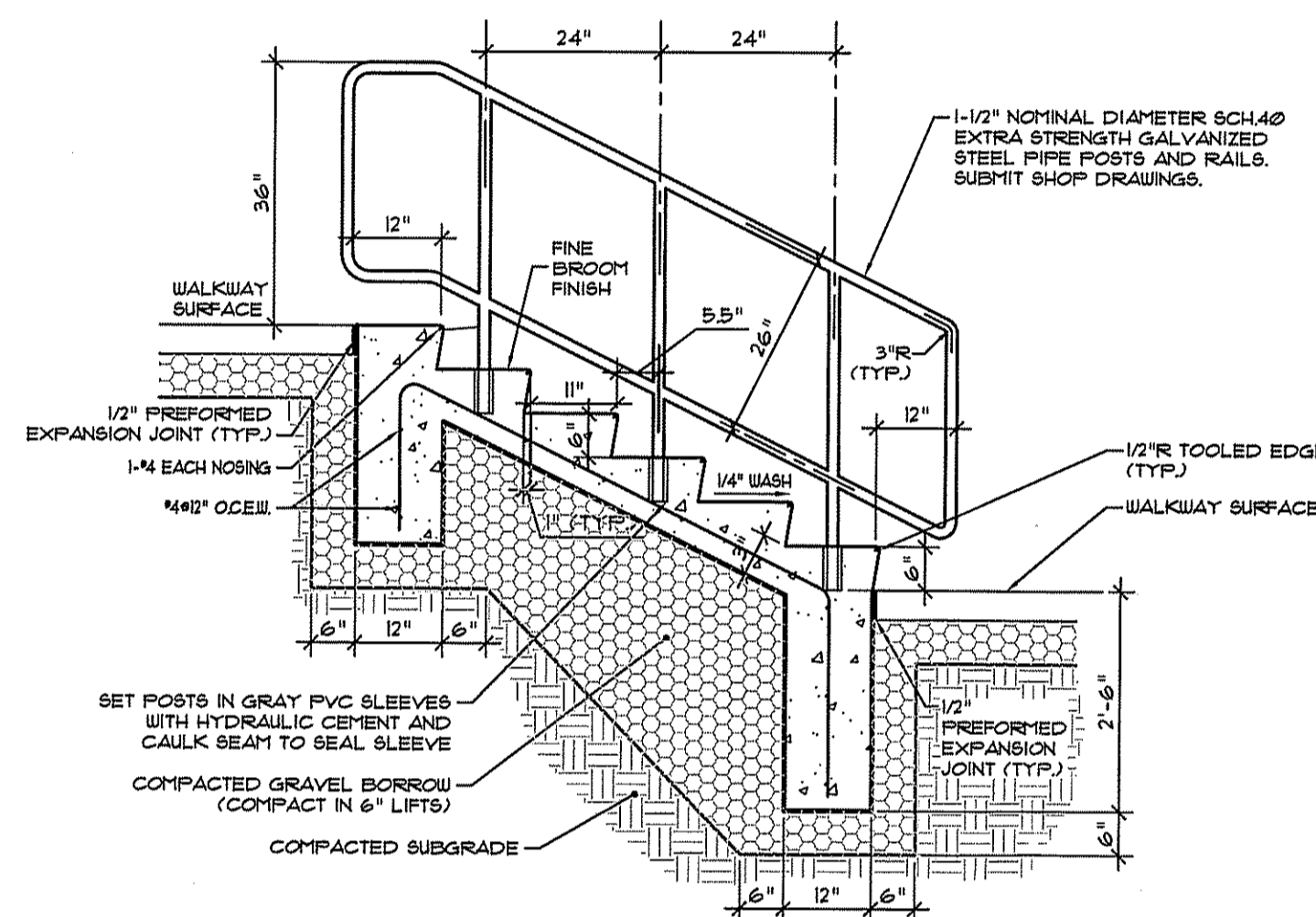
NOT TO SCALE



NOTES:  
1. ALL CONCRETE UNIT PAVERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.  
2. CONTRACTOR TO SUBMIT SAMPLES OF ALL PAVERS FOR REVIEW BY OWNER, PRIOR TO DELIVERY TO SITE.  
3. CONTRACTOR TO INSTALL 3\"/>

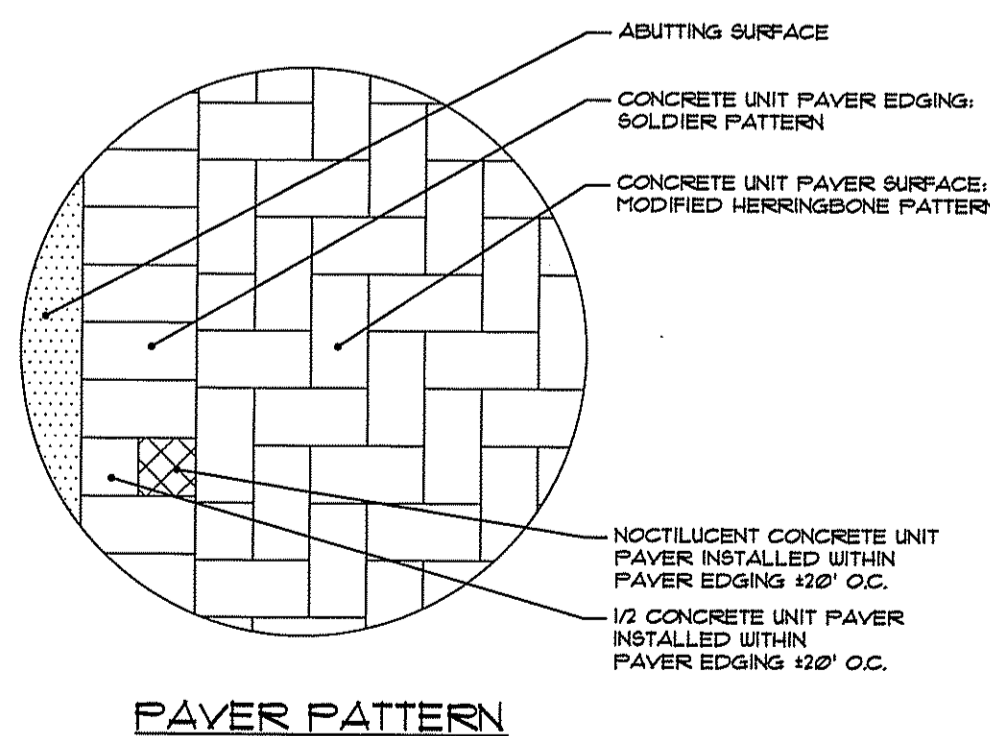
4 CONCRETE PAVER SURFACE

NOT TO SCALE

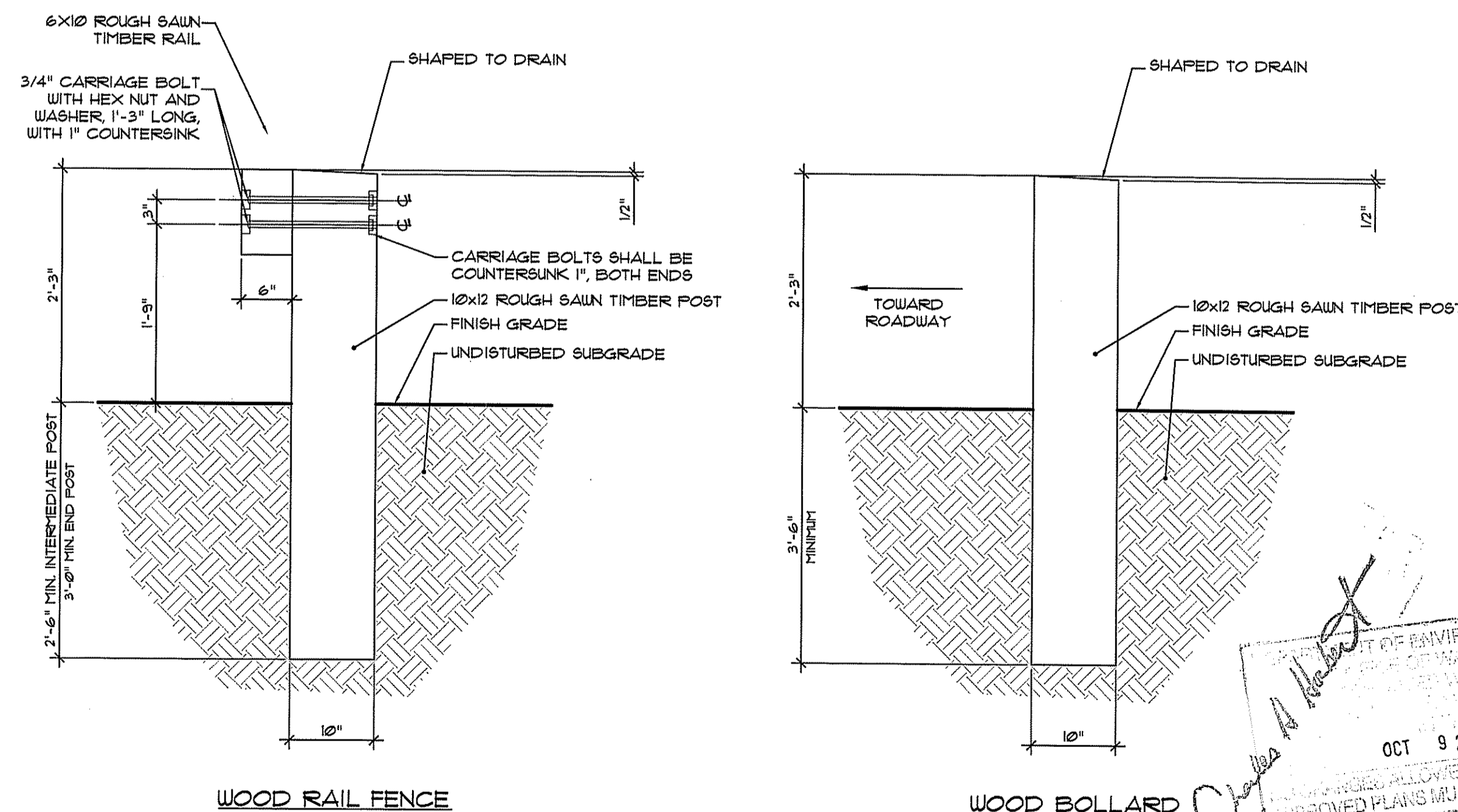


5 CONCRETE STAIRS

NOT TO SCALE



PAVER PATTERN



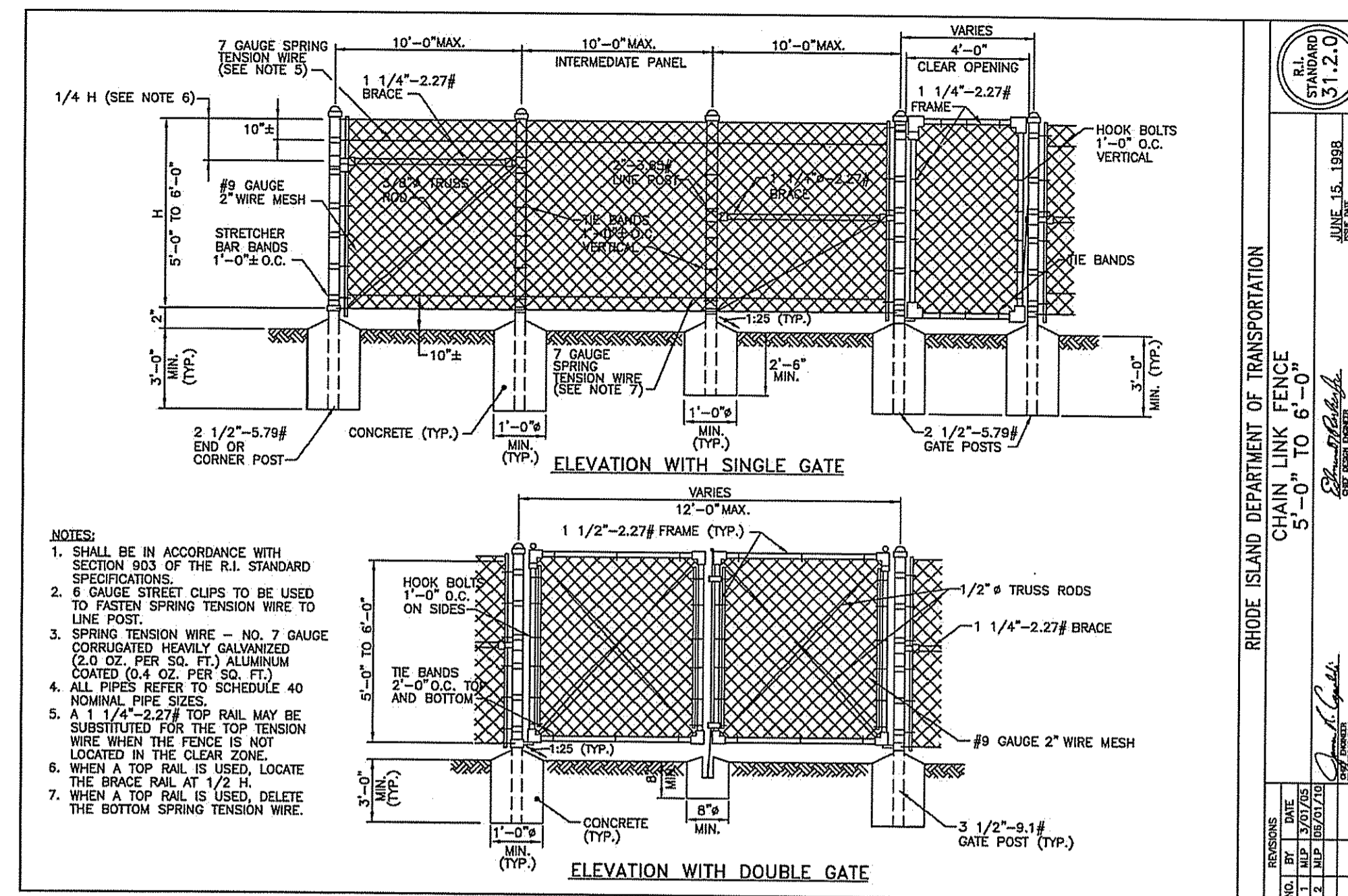
WOOD RAIL FENCE

WOOD BOLLARD

NOTE: ALL FASTENERS AND HARDWARE SHALL BE WEATHERING STEEL, IN ACCORDANCE WITH RIDOT SPECIFICATIONS

6 WOOD RAIL FENCE AND WOOD BOLLARD

NOT TO SCALE



NOTES:  
1. SHALL BE IN ACCORDANCE WITH SECTION 903 OF THE R.I. STANDARD SPECIFICATIONS.  
2. 6 GAUGE STREET CLIPS TO BE USED TO FASTEN SPRING TENSION WIRE TO LINE POST.  
3. SPRING TENSION WIRE - NO. 7 GAUGE CORRUGATED HEAVILY GALVANIZED (2.0 OZ. PER SQ. FT.) ALUMINUM COATED (0.4 OZ. PER SQ. FT.)  
4. ALL PIPES REFER TO SCHEDULE 40 NOMINAL PIPE SIZES.  
5. A 1 1/4\"/>

ELEVATION WITH SINGLE GATE

ELEVATION WITH DOUBLE GATE

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
CHAIN LINK FENCE  
5'-0" TO 6'-0"  
DATE: 10.11.2014  
BY: [Signature]  
CHECKED BY: [Signature]  
SCALE: AS SHOWN

REVISIONS


REFERENCES:

JONES POND IMPROVEMENTS PROJECT RIDEM SUBMISSION

A. P. 17, BLOCK 22, LOT 1  
FIFTH STREET  
EAST PROVIDENCE, RI

PREPARED FOR:  
THE CITY OF EAST PROVIDENCE

KEVIN M. ALVERSON, LA  
LANDSCAPE ARCHITECTURE  
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REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT  
KEVIN M. ALVERSON  
NO. 1412  
10.11.2014

APPROVED FOR CONSTRUCTION  
OCT 9 2014  
FILE NO. 14-D165  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
SEP 17 2014

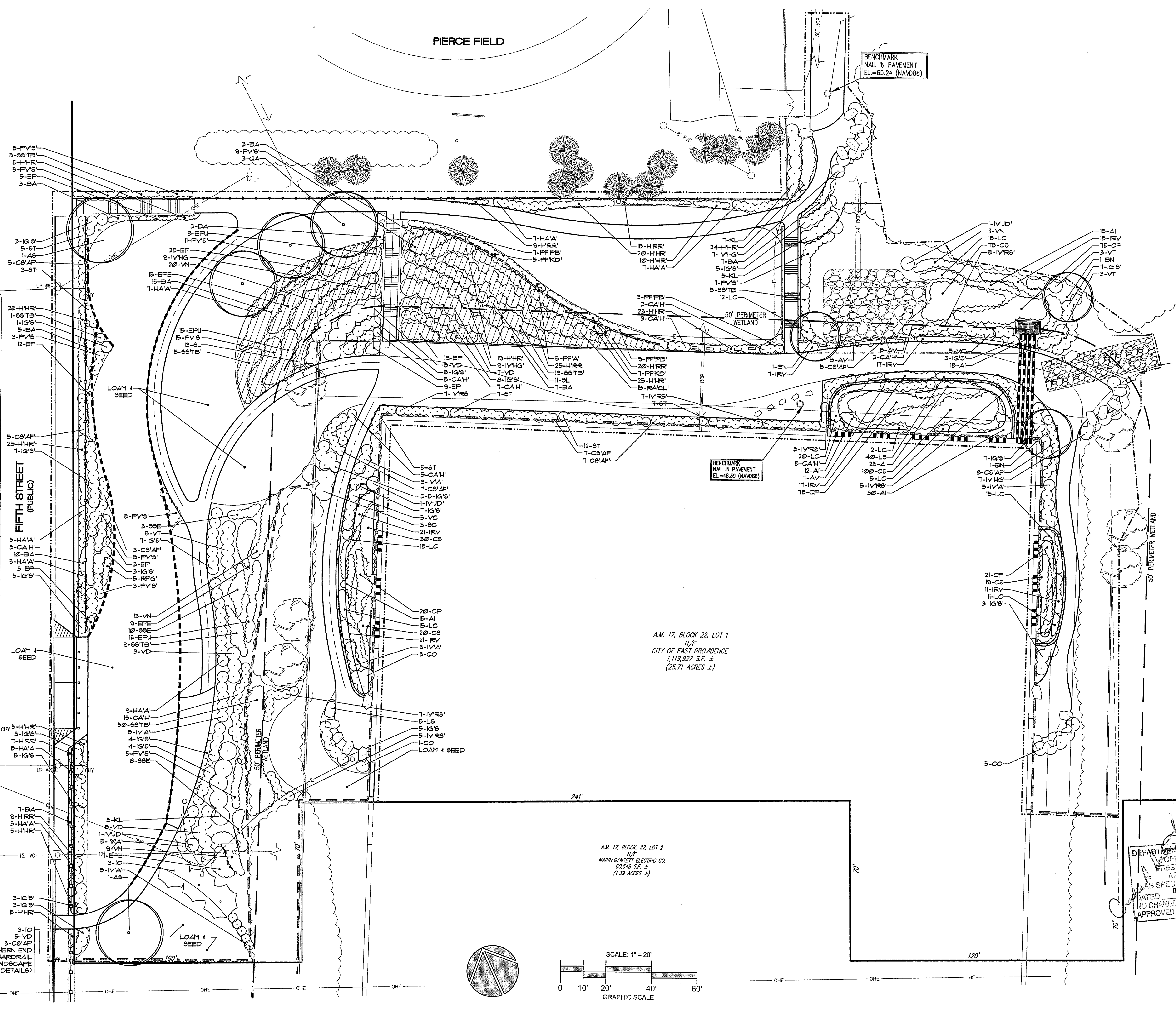
NOTES & DETAILS 2

PROJECT #: 2.134.48	SHEET 7 OF 9
SCALE: AS SHOWN	7
DRAWN BY: KMA	
CHECKED BY: KMA	
DATE: SEPT. 11, 2014	

2.134.48 Jones Pond Improvements.dwg  
Kevin M. Alverson, LA

**LEGEND:**

- SUBJECT PROPERTY LINE
- ABUTTING PROPERTY LINE
- EX. EDGE OF PAVEMENT
- EX. STEPS
- EX. UTILITY POLE
- OHE — EX. OVERHEAD WIRES
- DMH — EX. DRAINAGE MANHOLE
- CB — EX. CATCH BASIN
- VC-CLAY — EX. DRAIN LINE
- RC-CONCRETE — EX. CHAIN LINK FENCE
- 98 — EX. CONTOUR
- — PR. WALK
- — PR. GUIDE RAIL
- — PR. CONTOUR
- X 52.17 — PR. SPOT GRADE
- — PR. DRAIN LINE
- — PR. BOULDER WALL
- — LIMIT OF DISTURBANCE
- — COMPOST SILT SOCK
- — 50' PERIMETER WETLAND
- — COR EROSION CONTROL MAT



REVISIONS


REFERENCES:

**JONES POND**  
IMPROVEMENTS  
PROJECT  
RIDEM SUBMISSION

A. P. 17, BLOCK 22, LOT 1  
FIFTH STREET  
EAST PROVIDENCE, RI

**OWNER/APPLICANT:**  
THE CITY OF EAST PROVIDENCE

**KEVIN M. ALVERSON, LA**  
LANDSCAPE ARCHITECTURE  
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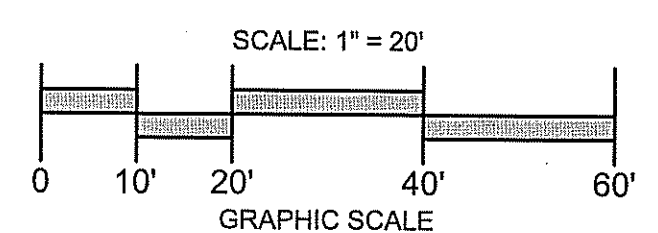


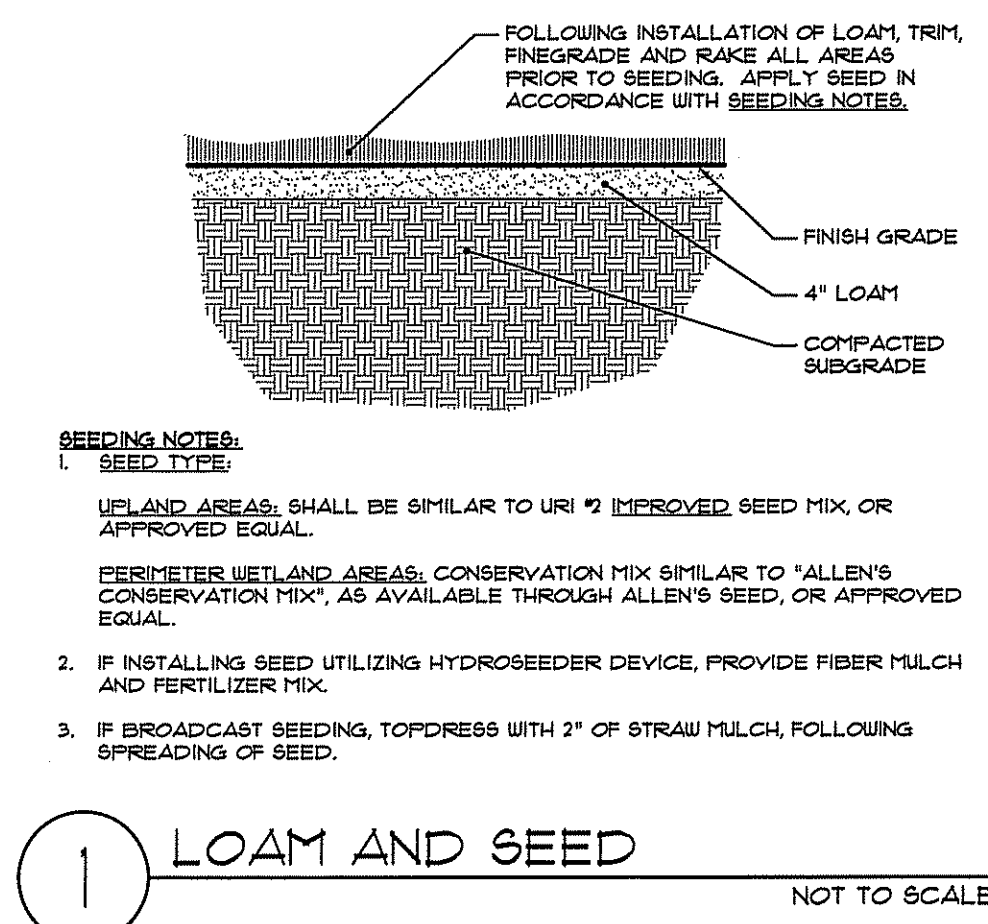
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVAL AS SPECIFIED  
DATE: OCT 1 2014  
FILE # 14-D165  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
LANDSCAPE PLAN  
SEP 17 2014

PROJECT #: 2.134.48 SHEET 8 OF 9

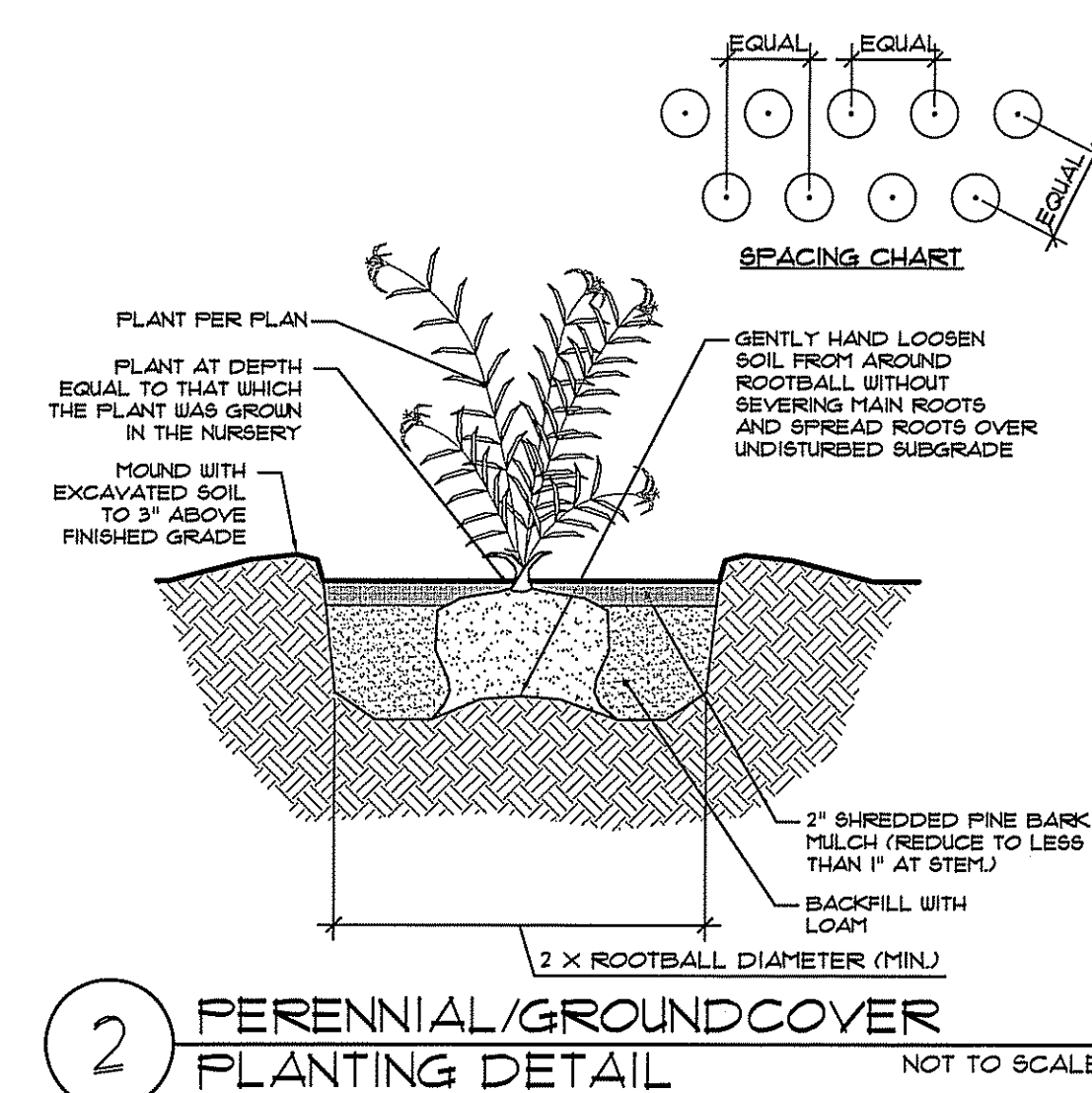
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CHECKED BY: KMA  
DATE: SEPT. 11, 2014

**8**

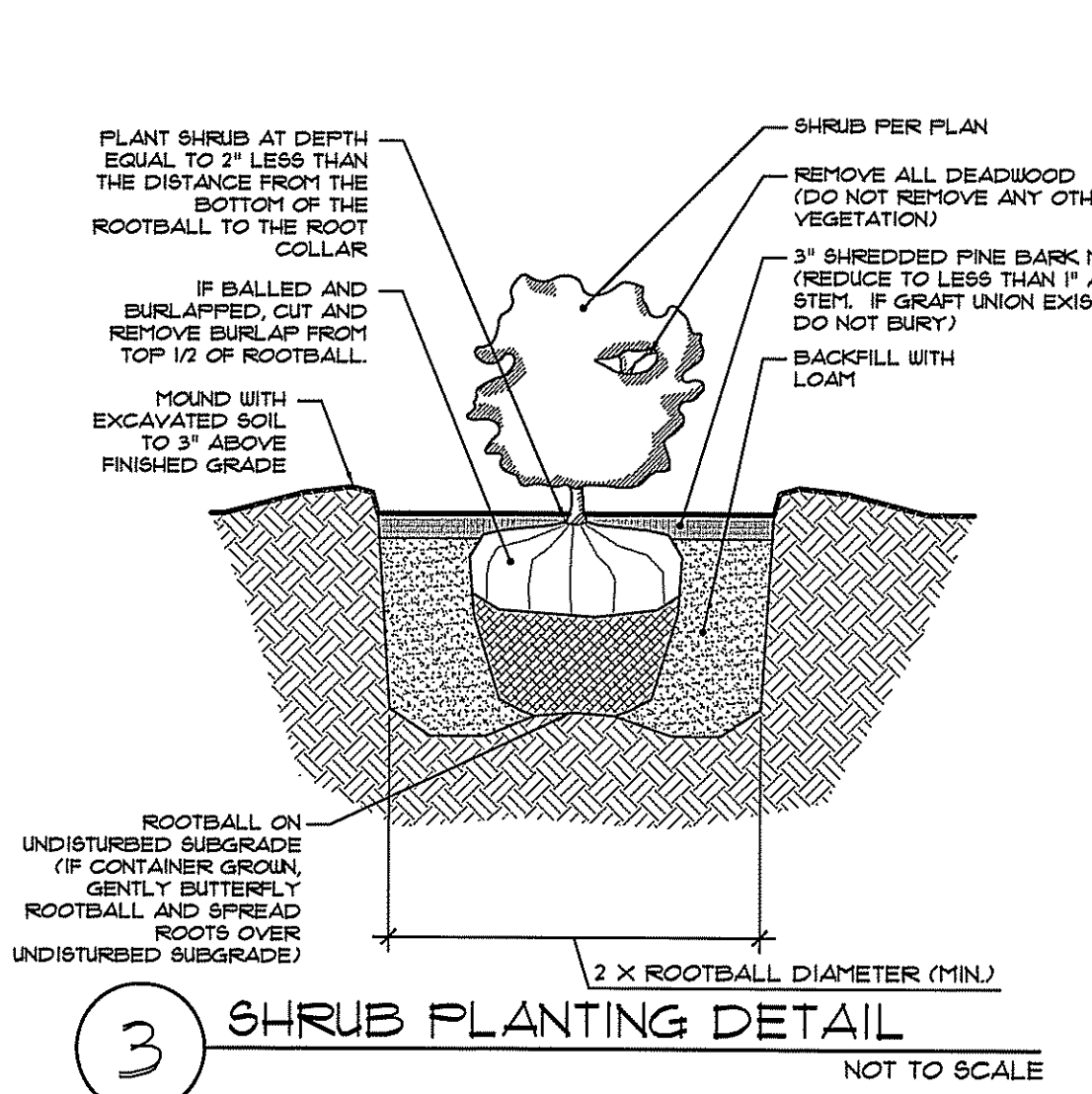




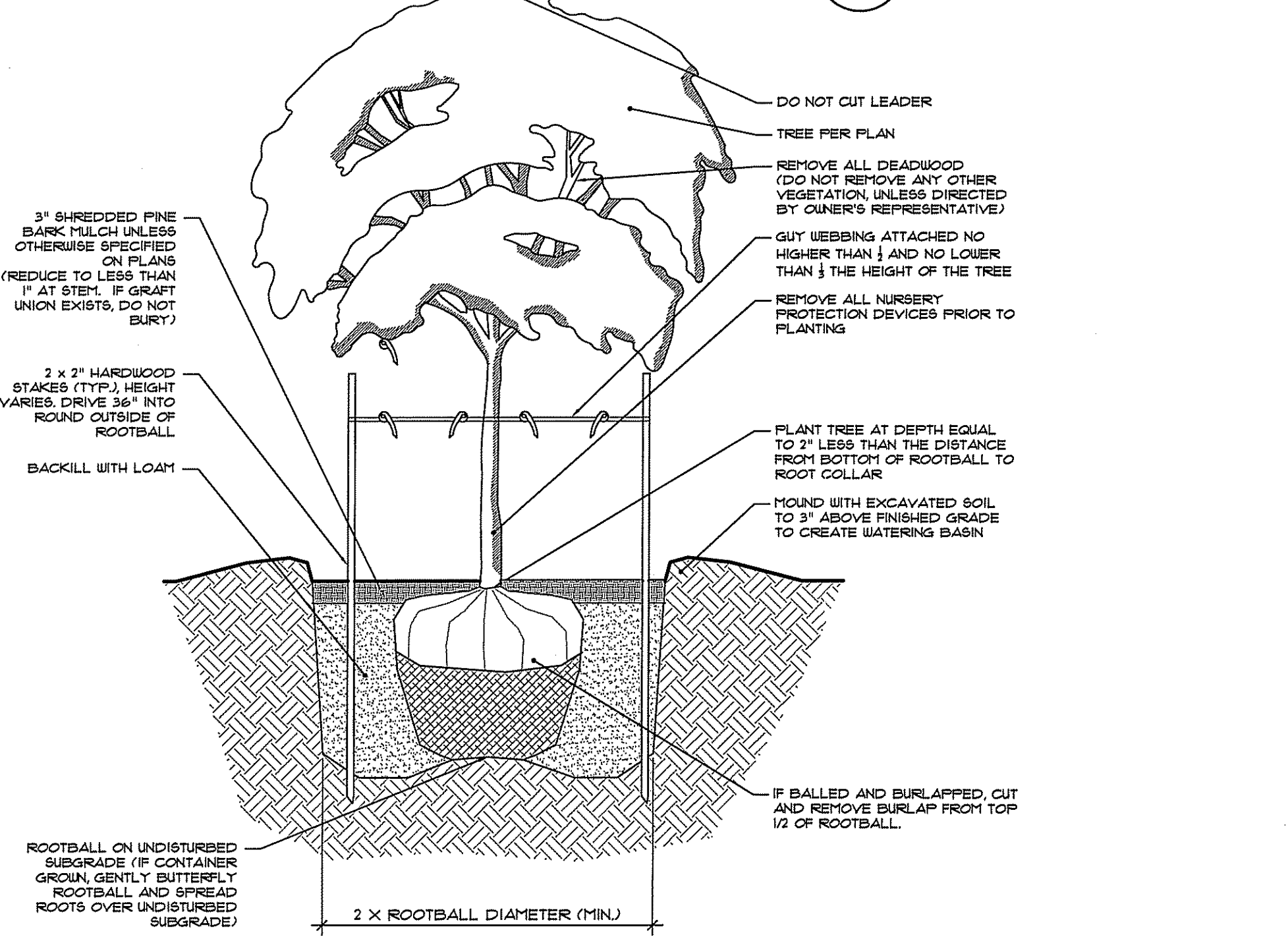
1 LOAM AND SEED NOT TO SCALE



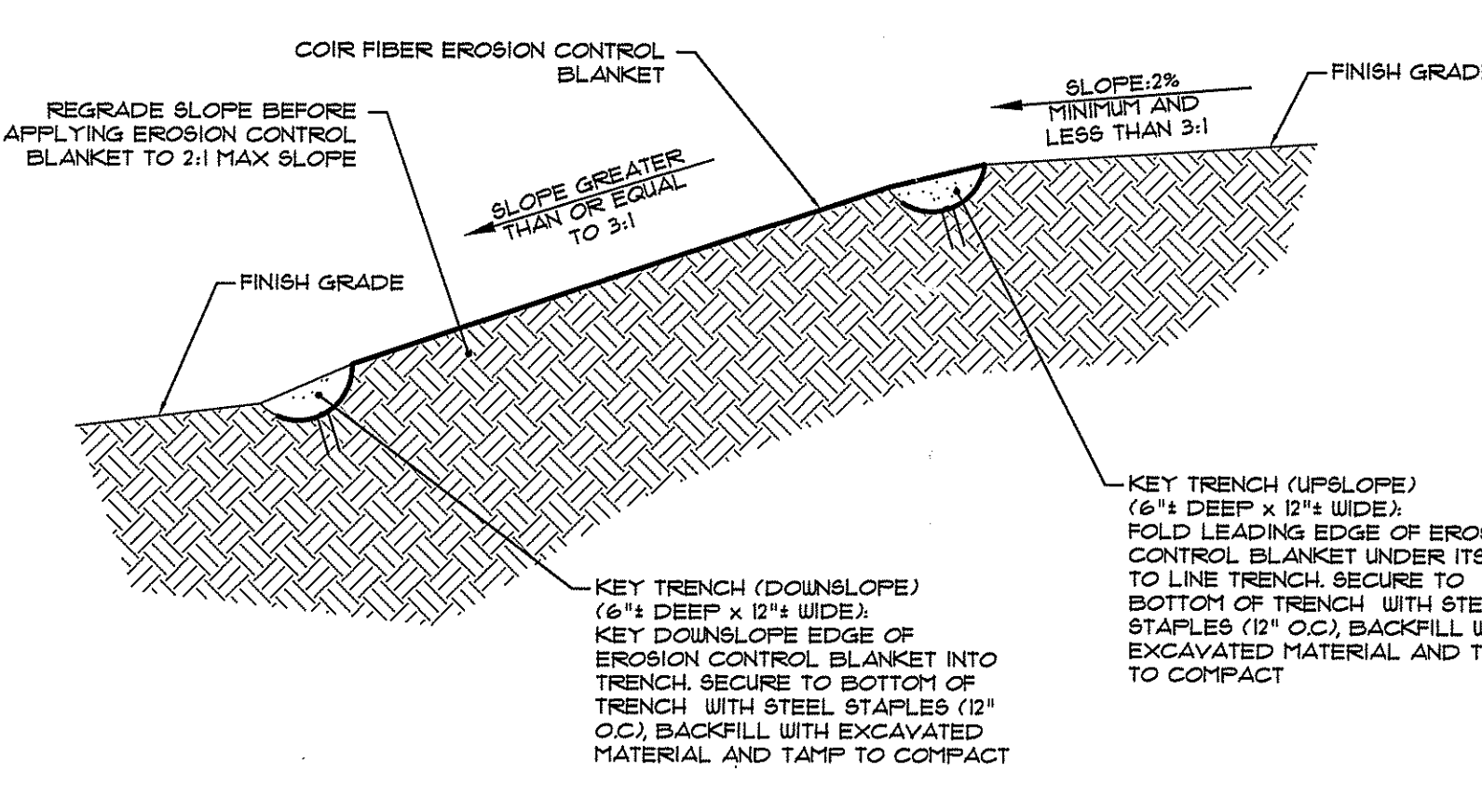
2 PERENNIAL/GROUNDCOVER PLANTING DETAIL NOT TO SCALE



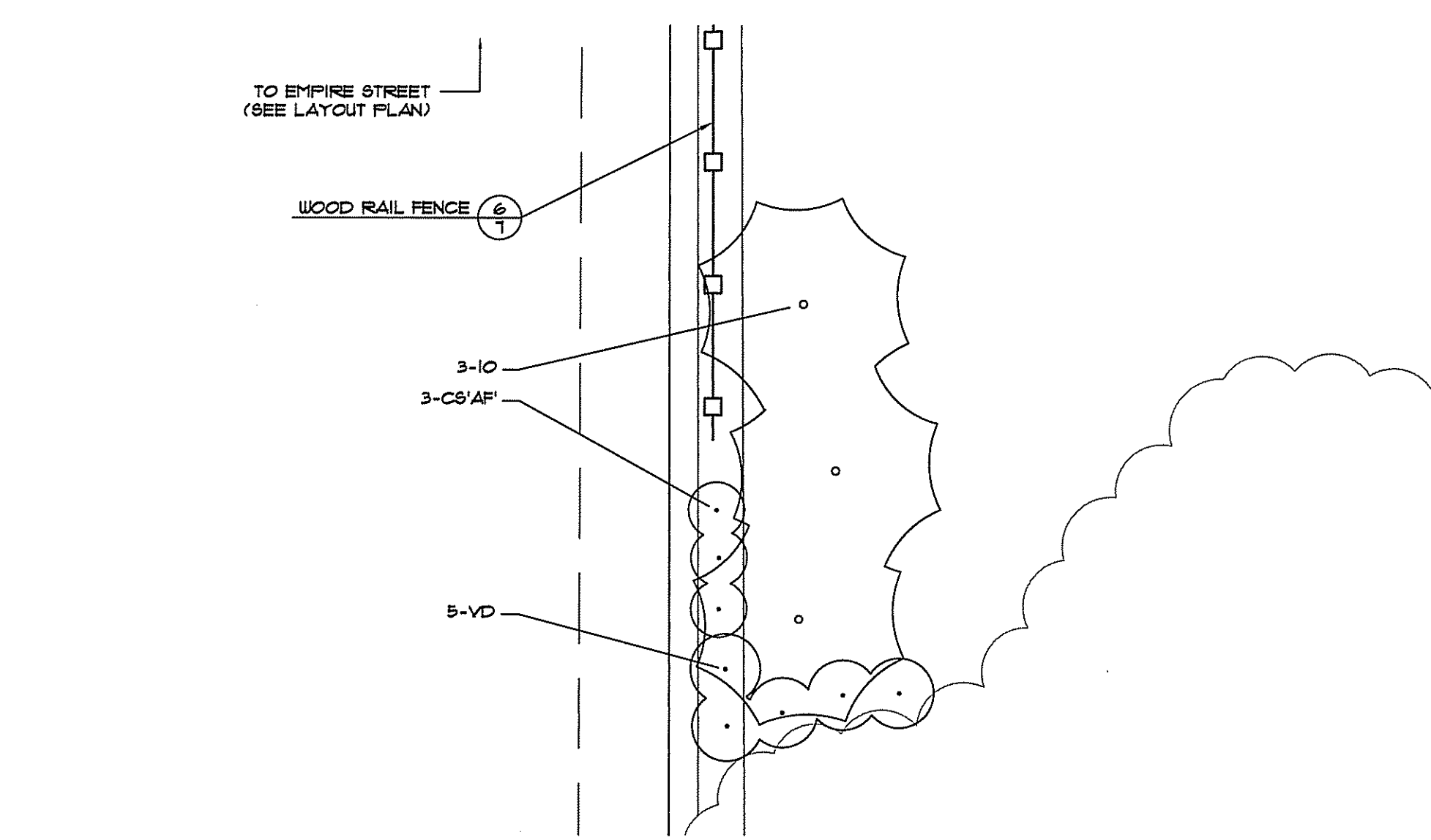
3 SHRUB PLANTING DETAIL NOT TO SCALE



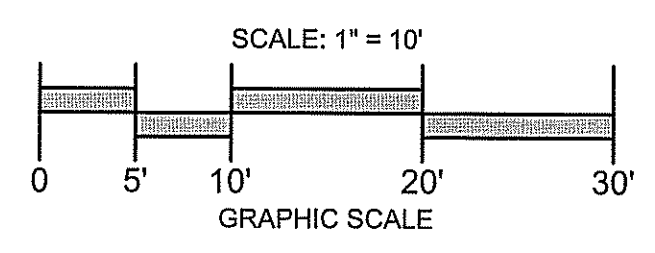
4 TREE PLANTING DETAIL NOT TO SCALE



5 COIR EROSION CONTROL MAT NOT TO SCALE



6 SOUTHERN WOOD RAIL FENCE PLANTING DETAIL



PLANT SCHEDULE:

KEY	SCIENTIFIC NAME	SIZE	QUANTITY	COMMENT
AI	ASCLEPIA INCARNATA Swamp Milkweed	2\"/>		
AS	ACER SACCHARINUM Sugar Maple	2\"/>		
AV	AZALEA VASEYI Pinkshell Azalea	2\"/>		
BA	BAPTISIA AUSTRALIS Blue False Indigo	1\"/>		
BN	BETULA NIGRA River Birch	8\"/>		
CAH	CLETHRA ALNFOLIA 'Hummingbird' Compact Summersweet	3\"/>		
CO	CEPHALANTHUS OCCIDENTALIS Buttonbush	2\"/>		
CP	CALTHA PALUSTRIS Marsh Marigold	2\"/>		
CS	CAREX STRICTA Tussock Sedge	2\"/>		
CS/AP	CORNUS SERICEA 'Arolic Fire' Compact Redtwig Dogwood	3\"/>		
EP	ECHINACEA PURPUREA Purple Coneflower	1\"/>		
EPE	EUPATORIUM PERFOLIATUM Bonaset	2\"/>		
EPU	EUPATORIUM PURPUREUM Joe-Pye Weed	2\"/>		
HA'A	HYDRANGEA ARBORESCENS 'Abetawo' Incredible White Hydrangea	3\"/>		
HHR	HEPEROCALLIS 'Happy Returns' Continuous Bloom Lemon Yellow Daylily	1\"/>		
HRR	HEPEROCALLIS 'Rosy Returns' Continuous Bloom Rose Pink Daylily	1\"/>		
IG'S	ILEX GLABRA 'Shamrock' Compact Inkberry	3\"/>		
IO	ILEX OPACA - Female Female American Holly	6\"/>		
IRV	IRIS VERSICOLOR Blue Flag Iris	2\"/>		
IVA	ILEX VERTICILLATA 'Afterglow' Afterglow Female Winterberry	3\"/>		
IVH'S	ITEA VIRGINICA 'Henry's Garnet' Henry's Garnet Virginia Sassafras	3\"/>		
IVJD	ILEX VERTICILLATA 'Jim Dandy' Jim Dandy Male Pollinator Winterberry	3\"/>		
IVRS	ILEX VERTICILLATA 'Red Sprite' Compact Winterberry - Female	3\"/>		
KL	KALMIA LATIFOLIA Mountain Laurel	3\"/>		
LC	LOBELIA CARDINALIS Cardinal Flower	2\"/>		
L6	LOBELIA SIPHILITICA Great Blue Lobelia	2\"/>		
FFA	POTENTILLA FRUTICOSA 'Abbotwood' White Abbotwood Potentilla	3\"/>		
FFKD	POTENTILLA FRUTICOSA 'Katherine Dyles' Katherine Dyles Yellow Potentilla	3\"/>		
FFPB	POTENTILLA FRUTICOSA 'Pink Beauty' Pink Beauty Pink Potentilla	3\"/>		
PV'S	PANICUM VIRGATUM 'Shenandoah' Shenandoah Red Flowering Sultangrass	1\"/>		
QA	QUERCUS ALBA White Oak	2\"/>		
RA'GL	RHUS AROMATICA 'Gro-Low' Gro-Low Compact Fragrant Sumac	3\"/>		
RF'G	RUDBECKIA FULGIDA 'Goldstun' Black-Eyed Susan	4\"/>		
SC	SAMBUCUS CANADENSIS American Elder	3\"/>		
SL	SPIRAEA LATIFOLIA Meadowsweet	1\"/>		
66E	SOLIDAGO SEMPERVIRENS Beside Goldenrod	2\"/>		
66TB	SCHIZACHYRIUM SCOPARIUM 'The Blues' The Blues Little Bluestem	1\"/>		
6T	SPIRAEA TOMENTOSA Steeplebush	3\"/>		
VC	VACCINIUM CORTIMBOBUM Highbush Blueberry	3\"/>		
VD	VIBURNUM DENTATUM Arrowwood Viburnum	3\"/>		
VN	VERNONIA NOVEBORACENSIS New York Ironweed	2\"/>		
VT	VIBURNUM TRILOBUM American Cranberrybush Viburnum	3\"/>		

NOTES:  
 \* THESE PLANTS SHALL BE WETLAND RESTORATION PLANTING GRADE VEGETATION, AS AVAILABLE THROUGH A WETLAND RESTORATION NURSERY SUCH AS NEW ENGLAND WETLAND PLANTS, INC. OR APPROVED EQUAL.

REVISIONS


REFERENCES:


**JONES POND IMPROVEMENTS PROJECT RIDEM SUBMISSION**

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REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT  
 STATE OF RHODE ISLAND  
 REG. NO. 14-0165  
 EXPIRES 12/31/2014  
 LANDSCAPE DETAILS

LANDSCAPE NOTES:

- PROTECTION OF EXISTING PLANTINGS: MAXIMUM EFFORT SHOULD BE MADE TO SAVE TREES OF OTHER PLANT SPECIMENS WHICH ARE LARGE FOR THEIR SPECIES, RARE TO THE AREA, OR OF SPECIAL HORTICULTURAL OR LANDSCAPE VALUE. CONTACT OWNER/OWNER'S REPRESENTATIVE BEFORE REMOVING ANY SPECIMEN OF THIS TYPE UNLESS OTHERWISE NOTED ON THE PLANS. NO MATERIAL OR TEMPORARY SOIL DEPOSITS SHALL BE PLACED WITHIN THE DRIP LINE OF SHRUBS OR TREES DESIGNATED ON THE LANDSCAPE PLAN TO BE RETAINED. PROTECTIVE BARRIERS ARE TO BE INSTALLED AROUND EACH PLANT AND/OR GROUP OF PLANTS THAT ARE TO REMAIN ON THE SITE. BARRIERS SHALL NOT BE SUPPORTED BY THE PLANTS THEY ARE PROTECTING, BUT SHALL BE SELF-SUPPORTING. THEY SHALL BE OF MINIMUM OF FOUR FEET (4') HIGH AND CONSTRUCTED OF A DURABLE MATERIAL, SUCH AS SNOW OR SILT FENCE, THAT WILL LAST UNTIL CONSTRUCTION IS COMPLETED.
- ALL LOAM USED AS PLANTABLE SOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPY SOIL, TREE LIMBS TRASH, CONSTRUCTION DEBRIS, OR OTHER OBJECTIONABLE MATERIAL, AND SHALL CONFORM TO SECTION 108 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- THOROUGHLY WATER ALL PLANTS WHEN 2/3 OF BACKFILL HAS BEEN PLACED TO ENSURE ALL AIR POCKETS ARE REMOVED. FIRMLY TAMP SOIL AROUND PLANT. ENSURE PROPER WATERING OF PLANT MATERIAL UNTIL ESTABLISHMENT.
- ALL PLANTING MATERIAL SHALL BE PRUNED IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES, AND IN SUCH A MANNER AS TO MAINTAIN THE NATURAL FORM OF THE PLANT. PRUNING SHALL BE COMPLETED UTILIZING ONLY CLEAN SHARP TOOLS. USE OF AXES OR OTHER UNACCEPTABLE PRUNING MATERIAL TO REMOVE ANY AND ALL DEADWOOD.
- ALL PLANTINGS SHALL BE MULCHED WITH SHREDDED BARK MULCH. PLANTINGS INSTALLED IN CLUSTERS, OR WITHIN PLANTING BEDS SHALL BE MULCHED AS SUCH, INSTALLING MULCH THROUGHOUT THE ENTIRE PLANTING BED.
- LOADING AND SEEDING:
  - LOAM AND SEED ALL DISTURBED AREAS.
  - LOAM UTILIZED FOR LAWN AREAS SHALL BE SANDY LOAM, CONFORMING TO THE REQUIREMENTS OF THE USGA FOR LAWN PLANTINGS.
  - THE LOAMED SURFACE SHALL BE GRADED, AND ALL ROOTS, SODS, WEEDS, COBBLES OR STONES WITH ANY DIMENSION GREATER THAN 3/4 INCH SHALL BE REMOVED AND LEGALLY DISPOSED OF. AFTER SHAPING AND GRADING, ALL TRUCKS AND OTHER EQUIPMENT REQUIRED TO PERFORM SEEDING, MULCHING OR MOWING OPERATIONS SHALL BE EXCLUDED FROM THE LOAMED AREAS.
  - LOAM SHALL BE TESTED BY REPUTABLE SOIL TESTING LABORATORY SUCH AS THE UNIVERSITY OF MASSACHUSETTS EXTENSION CENTER FOR AGRICULTURE (OR APPROVED EQUAL LABORATORY) FOR PH AND SOIL FERTILITY BEFORE SEEDING. NEEDED, LINE (GROUND OR PELLETIZED) AND/OR SOIL AMENDMENTS (AS DIRECTED BY THE RESULTS OF SAID SOIL TEST) SHALL BE APPLIED AND SPREAD EVENLY OVER THE ENTIRE SURFACE TO BE SEEDDED. THE APPLICATION RATE AND QUANTITY OF SOIL AMENDMENTS SHALL BE AS DICTATED BY THE RESULTS OF THE APPROVED SOIL TEST. RAKING SHALL BE COMPLETED AFTER SOIL AMENDMENTS HAVE BEEN APPLIED.
  - ALL SEED DELIVERED TO THE JOB SHALL BE IN CONTAINERS LABELED AND CLEARLY MARKED FOR SEED MIX TO ENSURE SEED MIX MEETS SPECIFICATIONS INDICATED. ONLY THE CURRENT YEAR'S SEED SHALL BE ACCEPTED.
  - SEED SHALL BE APPLIED ONLY DURING THE FOLLOWING DATES:  
 SPRING SEEDING: MARCH 15 TO MAY 31  
 FALL SEEDING: AUGUST 15 TO OCTOBER 15.
  - THE CONTRACTOR SHALL WATER ALL SEEDED AREAS AND RESEED AS NECESSARY FOR A PERIOD OF 2-MONTHS OR UNTIL A HEALTH STAND OF GRASS IS ESTABLISHED AND APPROVAL HAS BEEN MADE BY THE OWNER/LANDSCAPE ARCHITECT.
- ALL PLANT MATERIAL SHALL BE NURSERY GROWN, IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK AS PREPARED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION. NO PLANTATION GROWN PLANT MATERIAL WILL BE ACCEPTED.
- CONTRACTOR SHALL PROVIDE A ONE (1) YEAR WARRANTY ON ALL NEW PLANTINGS. SHOULD NEW PLANT MATERIAL DIE (OR DECLINE TO THE POINT WHERE PLANT IS EXPECTED TO DIE) WITHIN THIS WARRANTY PERIOD (OTHER THAN DUE TO NATURAL DISASTER OR NEGLIGENCE), CONTRACTOR SHALL REMOVE THE PLANT AND REPLACE SAID PLANT MATERIAL WITH NEW PLANTINGS IN ACCORDANCE WITH THE SIZE AND VARIETY SPECIFIED. ALL REPLACEMENT PLANT MATERIAL SHALL CARRY A NEW ONE (1) YEAR WARRANTY STARTING FROM THE DATE OF REPLACEMENT.