

Johnston H.S. Field Renovation

Johnston, Rhode Island

RIDEM RESUBMISSION

PREPARED FOR:
Town Of Johnston

PREPARED BY:

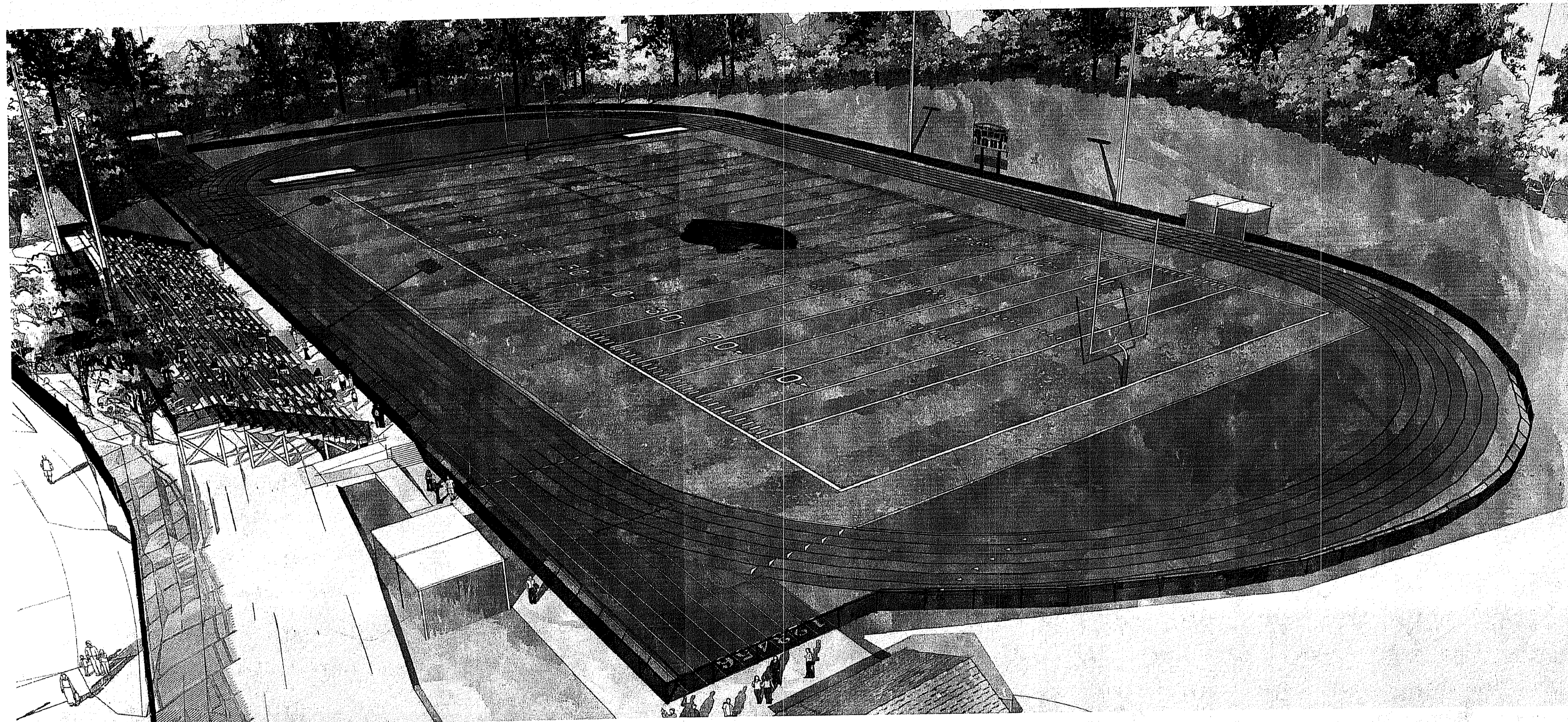


VICINITY MAP



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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED AUG 19 2014 FILE # 14-0032
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Signature

NOTE:
EXISTING GRADES AND LAYOUT OF EXISTING SITE INFORMATION SHOWN ON THESE PLANS ARE FROM THE SURVEY SUPPLIED BY DIPRETE ENGINEERING, JANUARY 2014. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMATION OF ACTUAL SITE GRADE AND LAYOUT CONDITIONS. BIRCHWOOD DESIGN GROUP, LLC ACCEPTS NO RESPONSIBILITY FOR EXISTING TOPOGRAPHIC AND SITE INFORMATION.

August 14, 2014

REFERENCE

- 1. EXISTING CONDITIONS PROVIDED TO PARE CORPORATION BY BIRCHWOOD DESIGN GROUP ON JANUARY 23, 2014. EXISTING CONDITIONS DATA FROM GROUND SURVEY PERFORMED ON NOVEMBER 15, 2013 AND COMPILED BY DIPRETE ENGINEERING 20 STAFFORD ROAD, CRANSTON, RI 02920.

EROSION AND SEDIMENTATION CONTROL NOTES

- 1. SOIL EROSION AND SEDIMENTATION CONTROLS SHALL BE PROVIDED IN ACCORDANCE WITH THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK", AND THE NOTES AND DETAILS SHOWN IN THIS PLAN SET.

DEMOLITION NOTES

- 1. ALL DEMOLITION SHALL BE COORDINATED WITH THE OWNER PRIOR TO START OF WORK.

LAYOUT NOTES

- 1. ALL LINES ARE PERPENDICULAR OR PARALLEL TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.

SURVEY NOTES

- 1. THE PARCEL IS LOCATED IN THE TOWN OF JOHNSTON ON ASSESSOR'S PLAT 47 LOT 9.

GENERAL NOTES

- 1. THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGES CONSTRUCTION AMENDED DECEMBER 2010, OR LATEST REVISION, RHODE ISLAND STANDARD DETAILS AND THE TOWN OF JOHNSTON STANDARD DETAILS AND CONSTRUCTION STANDARDS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO.

GRADING AND UTILITY NOTES

- 1. UNDERGROUND UTILITIES ARE APPROXIMATE AND ASSUMED. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "DIG SAFE" AT 1-888-DIG-SAFE, AND ALL UTILITY COMPANIES NOT COVERED BY "DIG SAFE", TO ACCURATELY LOCATE UNDERGROUND UTILITIES.

STORMWATER MAINTENANCE

- 1. PREVENTATIVE MAINTENANCE SHOULD BE PERFORMED AT LEAST TWICE A YEAR, AND IDEALLY SEDIMENT SHOULD BE REMOVED FROM PRETREATMENT BMPs AFTER EVERY MAJOR STORM EVENT.

BORINGS AND TEST PITS

- 1. TEST BORINGS PERFORMED BY NEW HAMPSHIRE BORING OF BROCKTON, MASSACHUSETTS ON DECEMBER 13, 2013. PARE CORPORATION PERSONNEL OBSERVED AND LOGGED THE TEST BORINGS SHOWN.

FORCE MAIN OPERATIONS AND MAINTENANCE (O&M) NOTES

- 1. FOR PROPER PERFORMANCE, GREASE TANK MUST BE INSPECTED AT A MINIMUM OF ANNUALLY AND ITS CONTENTS PUMPED OUT BY A SEPTAGE HAULER FOR LEGAL OFFSITE DISPOSAL.

FORCE MAIN AND GRAVITY SEWER NOTES

- 1. THE FORCE MAIN SHALL BE 2" DR 11 HDPE PIPE WITH BUTT FUSED JOINTS.

PUMP STATION AND GREASE TANK NOTES

- 1. GREASE TANK AND PUMP STATION SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE DRAWINGS UNLESS OTHERWISE DIRECTED BY ENGINEER.

SYMBOLS LEGEND

- (ATO) = ADJUST TO GRADE

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ABBREVIATIONS

- N/F NOW OR FORMERLY

PROPOSED LEGEND

- EDGE OF PAVEMENT

EXISTING SYMBOLS KEY

- BUILDING

SCHEDULE OF ALTERNATES

ALTERNATE #1

- CONCESSION STAND

ALTERNATE #3

- PEDESTRIAN PAVING UPGRADES

ALTERNATE #2

- BLEACHER UPGRADES

ALTERNATE #4

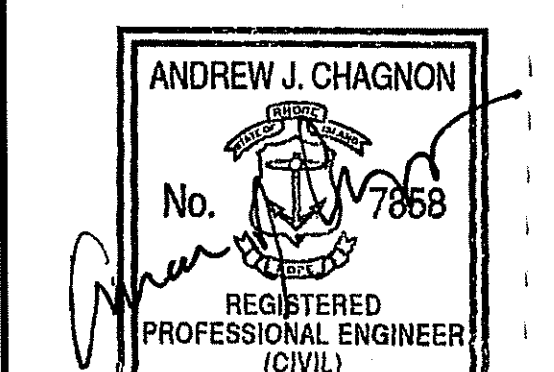
- IRRIGATION TO EAST FIELDS

ALTERNATE #5

- TICKET BOOTH



PARE CORPORATION ENGINEERS - SCIENTISTS - PLANNERS 10 LINCOLN ROAD, SUITE 103 FOWERSBURG, MA 02035 508-543-1755



JOHNSTON HIGH SCHOOL FIELD RENOVATIONS 345 CHERRY HILL ROAD JOHNSTON, RI ASSESSOR'S PLAT 47 LOT 9

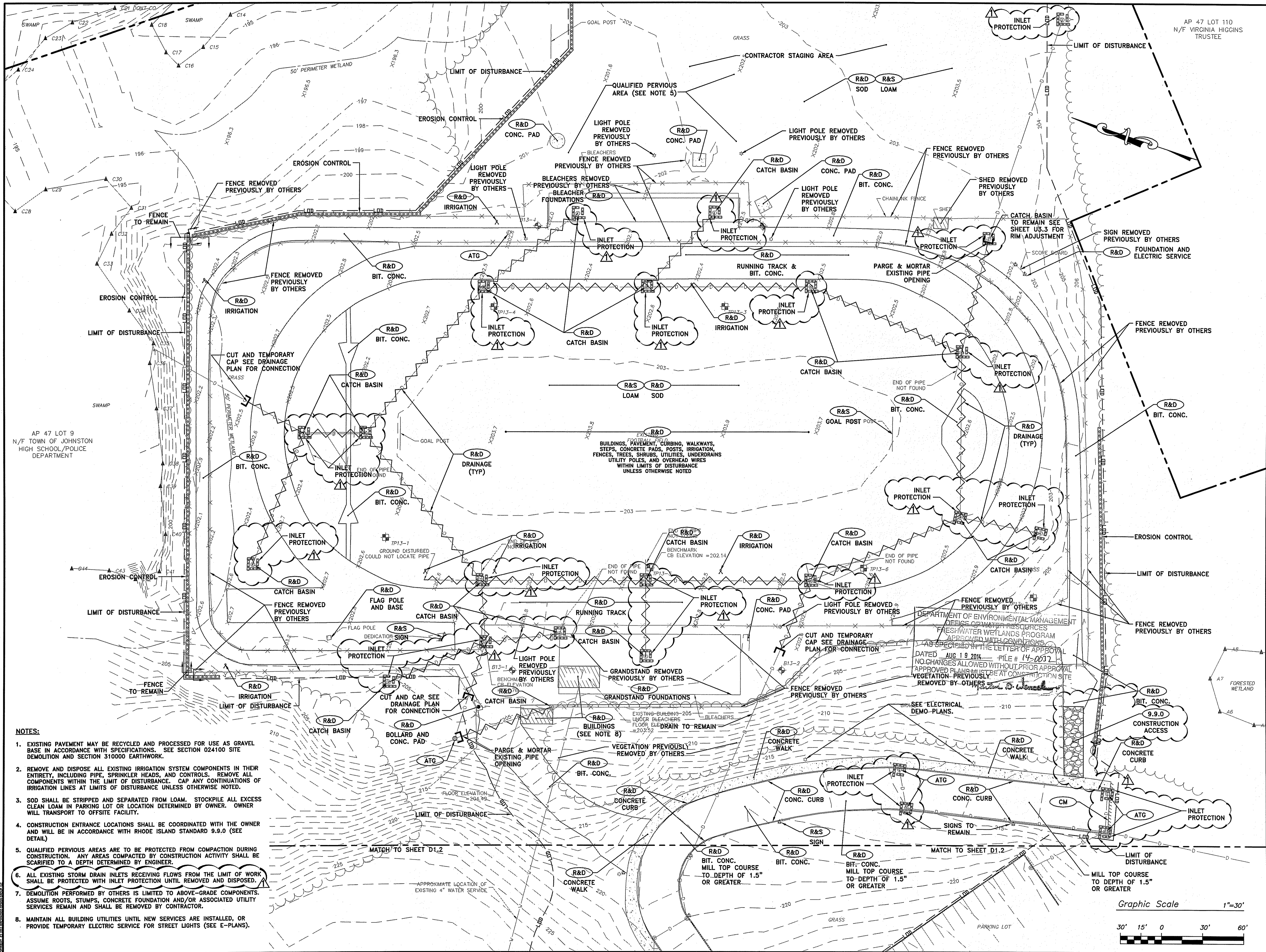
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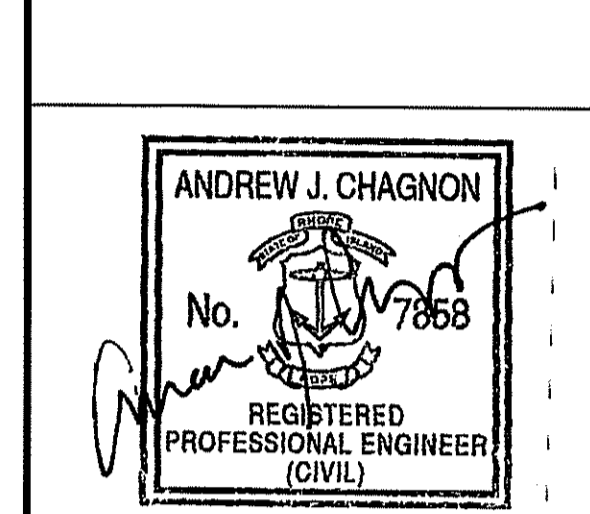
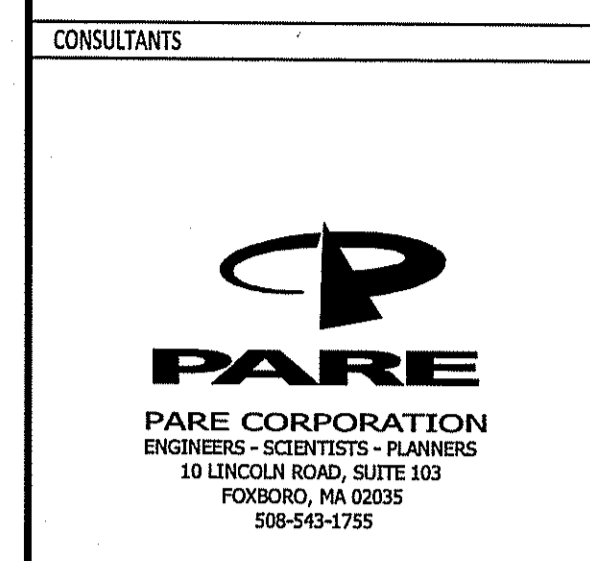
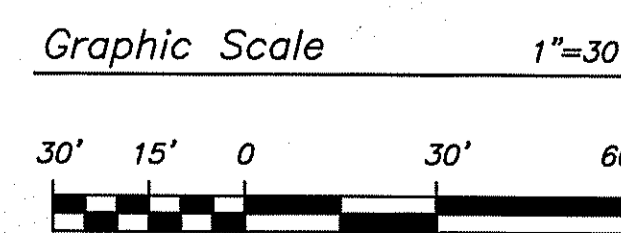
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NOTES & LEGEND

GN1.0



- NOTES:**
- EXISTING PAVEMENT MAY BE RECYCLED AND PROCESSED FOR USE AS GRAVEL BASE IN ACCORDANCE WITH SPECIFICATIONS. SEE SECTION 024100 SITE DEMOLITION AND SECTION 310000 EARTHWORK.
 - REMOVE AND DISPOSE ALL EXISTING IRRIGATION SYSTEM COMPONENTS IN THEIR ENTIRETY, INCLUDING PIPE, SPRINKLER HEADS, AND CONTROLS. REMOVE ALL COMPONENTS WITHIN THE LIMIT OF DISTURBANCE. CAP ANY CONTINUATIONS OF IRRIGATION LINES AT LIMITS OF DISTURBANCE UNLESS OTHERWISE NOTED.
 - SOD SHALL BE STRIPPED AND SEPARATED FROM LOAM. STOCKPILE ALL EXCESS CLEAN LOAM IN PARKING LOT OR LOCATION DETERMINED BY OWNER. OWNER WILL TRANSPORT TO OFFSITE FACILITY.
 - CONSTRUCTION ENTRANCE LOCATIONS SHALL BE COORDINATED WITH THE OWNER AND WILL BE IN ACCORDANCE WITH RHODE ISLAND STANDARD 9.9.0 (SEE DETAIL)
 - QUALIFIED PERVIOUS AREAS ARE TO BE PROTECTED FROM COMPACTION DURING CONSTRUCTION. ANY AREAS COMPACTED BY CONSTRUCTION ACTIVITY SHALL BE SCARIFIED TO A DEPTH DETERMINED BY ENGINEER.
 - ALL EXISTING STORM DRAIN INLETS RECEIVING FLOWS FROM THE LIMIT OF WORK SHALL BE PROTECTED WITH INLET PROTECTION UNTIL REMOVED AND DISPOSED.
 - DEMOLITION PERFORMED BY OTHERS IS LIMITED TO ABOVE-GRADE COMPONENTS. ASSUME ROOTS, STUMPS, CONCRETE FOUNDATION AND/OR ASSOCIATED UTILITY SERVICES REMAIN AND SHALL BE REMOVED BY CONTRACTOR.
 - MAINTAIN ALL BUILDING UTILITIES UNTIL NEW SERVICES ARE INSTALLED, OR PROVIDE TEMPORARY ELECTRIC SERVICE FOR STREET LIGHTS (SEE E-PLANS).



OWNER
JOHNSTON HIGH SCHOOL FIELD RENOVATIONS
 345 CHERRY HILL ROAD
 JOHNSTON, RI
 ASSESSOR'S PLAT 47 LOT 9

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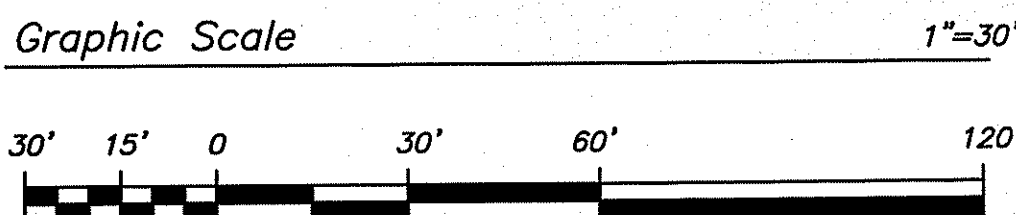
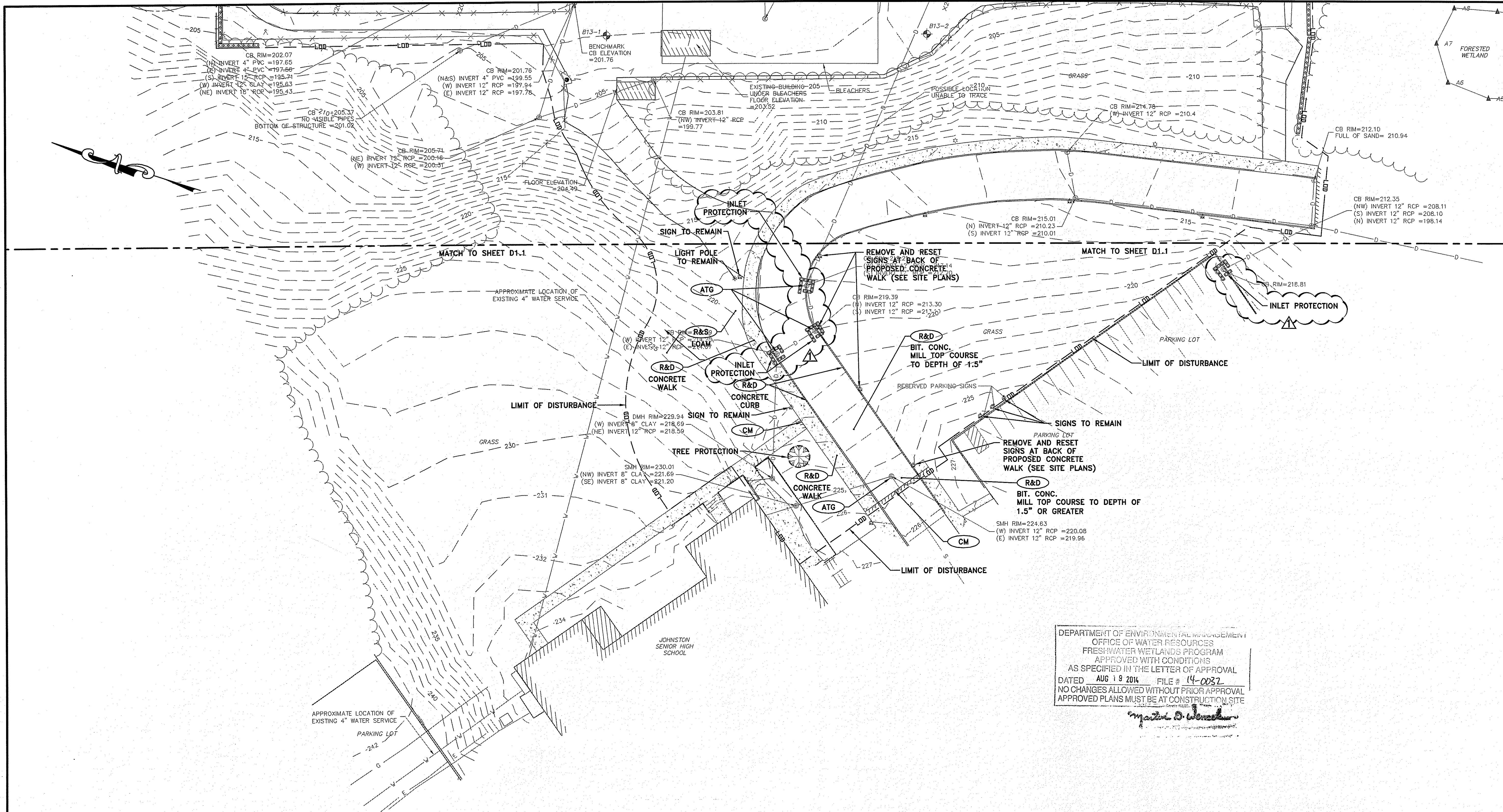
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 SCALE: 1"=30'
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EXISTING CONDITIONS & DEMOLITION PLAN 1

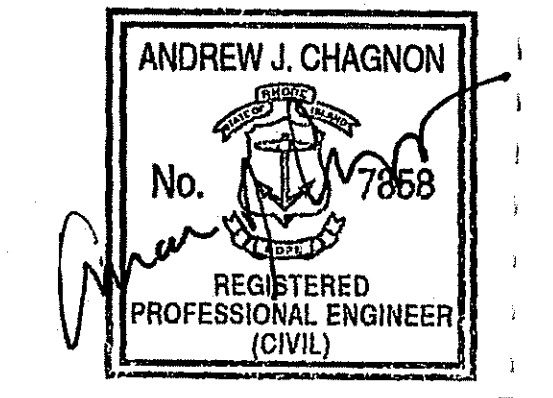
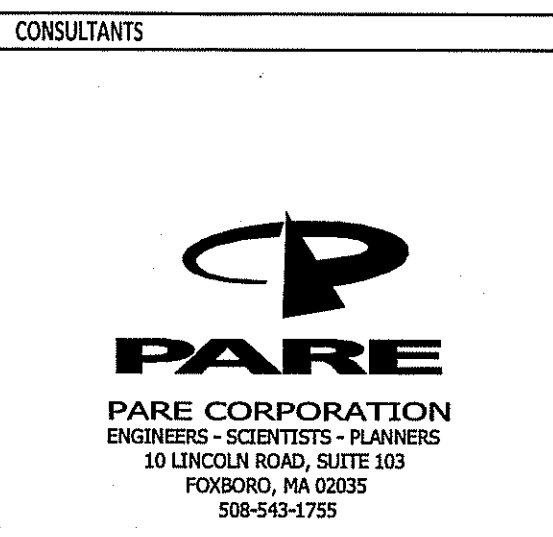
D1.1



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Martin D. Wozniak

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**JOHNSTON
 HIGH SCHOOL FIELD
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 JOHNSTON, RI
 ASSESSOR'S PLAT 47 LOT 9

AUG 14 2014
 Office of Water Resources

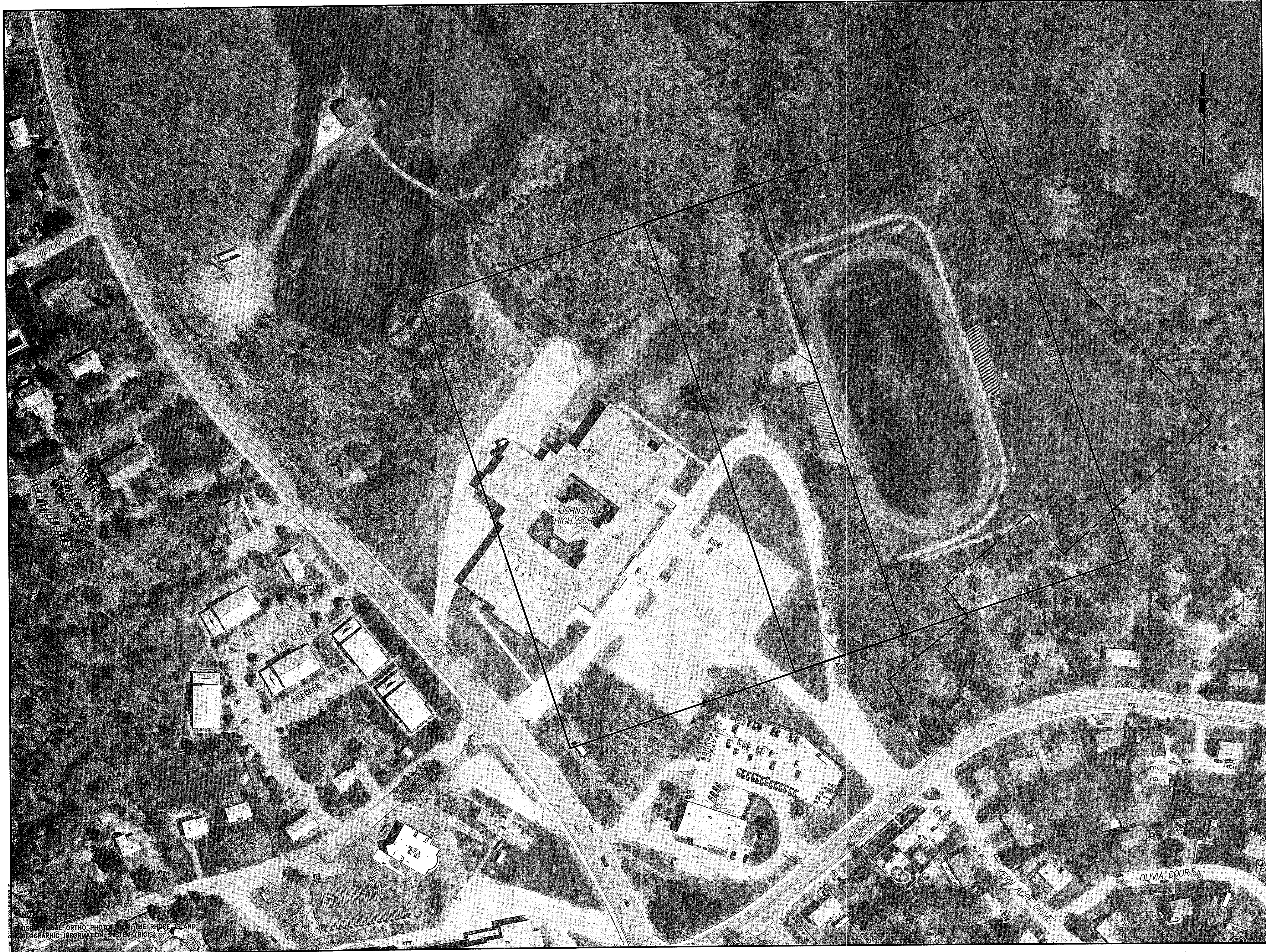
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 DATE: MARCH 27, 2014
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**EXISTING CONDITIONS
 & DEMOLITION PLAN 2**

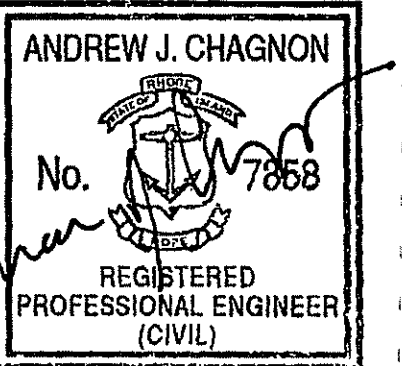
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CONSULTANTS



PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
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FOXBORO, MA 02035
508-543-1755



OWNER

**JOHNSTON
HIGH SCHOOL FIELD
RENOVATIONS**

345 CHERRY HILL ROAD
JOHNSTON, RI
ASSESSOR'S PLAT 47 LOT 9

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AUG 19 2014 14-0032

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DATE: MARCH 27, 2014

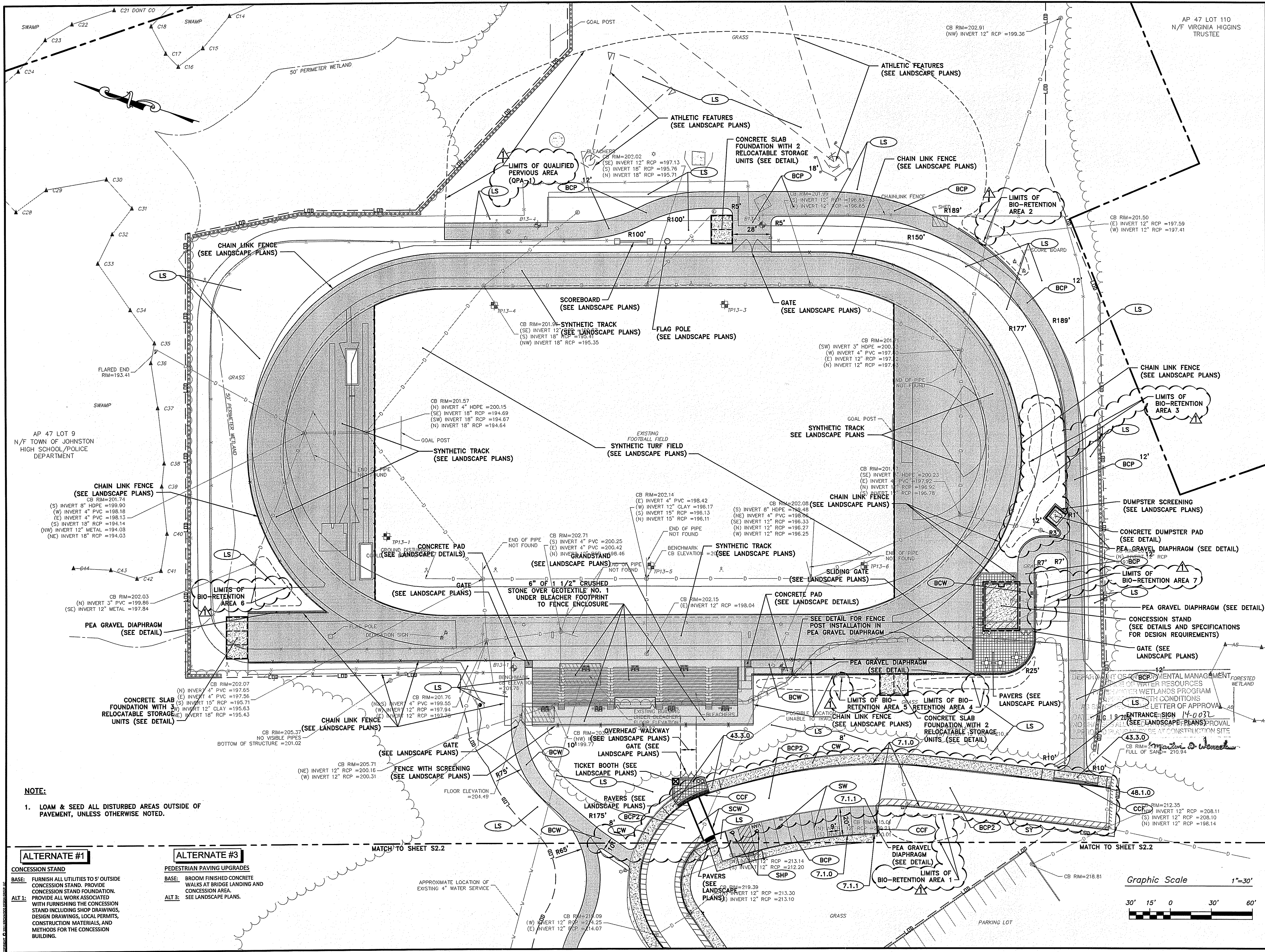
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**AERIAL AND
KEY SHEET**

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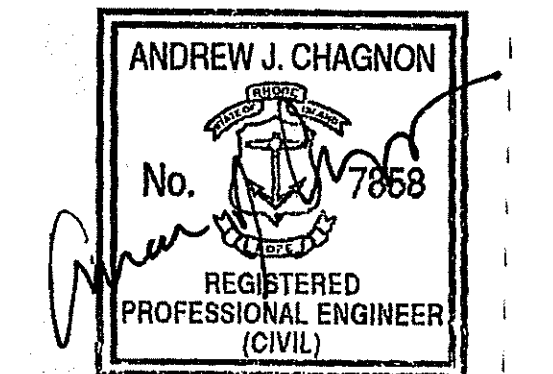
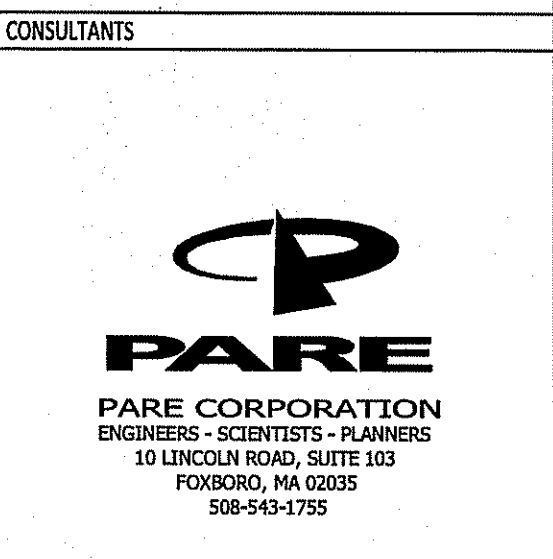
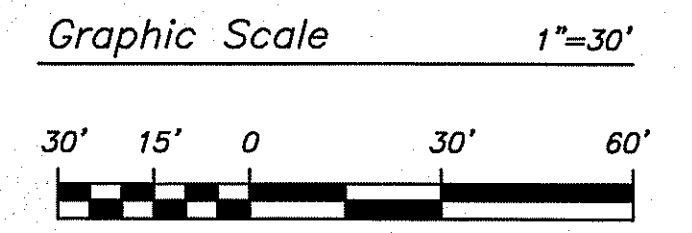
NOT TO SCALE
AERIAL ORTHO PHOTO FROM THE RHODE ISLAND
GEOGRAPHIC INFORMATION SYSTEM (RIGIS)



NOTE:
 1. LOAM & SEED ALL DISTURBED AREAS OUTSIDE OF PAVEMENT, UNLESS OTHERWISE NOTED.

ALTERNATE #1
 CONCESSION STAND
 BASE: FURNISH ALL UTILITIES TO 5' OUTSIDE CONCESSION STAND. PROVIDE CONCESSION STAND FOUNDATION. PROVIDE ALL WORK ASSOCIATED WITH FURNISHING THE CONCESSION STAND INCLUDING SHOP DRAWINGS, DESIGN DRAWINGS, LOCAL PERMITS, CONSTRUCTION MATERIALS, AND METHODS FOR THE CONCESSION BUILDING.

ALTERNATE #3
 PEDESTRIAN PAVING UPGRADES
 BASE: BROOM FINISHED CONCRETE WALKS AT BRIDGE LANDING AND CONCESSION AREA.
 ALT 1: PROVIDE ALL WORK ASSOCIATED WITH FURNISHING THE CONCESSION STAND INCLUDING SHOP DRAWINGS, DESIGN DRAWINGS, LOCAL PERMITS, CONSTRUCTION MATERIALS, AND METHODS FOR THE CONCESSION BUILDING.
 ALT 3: SEE LANDSCAPE PLANS.



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 345 CHERRY HILL ROAD
 JOHNSTON, RI
 ASSESSOR'S PLAT 47 LOT 9

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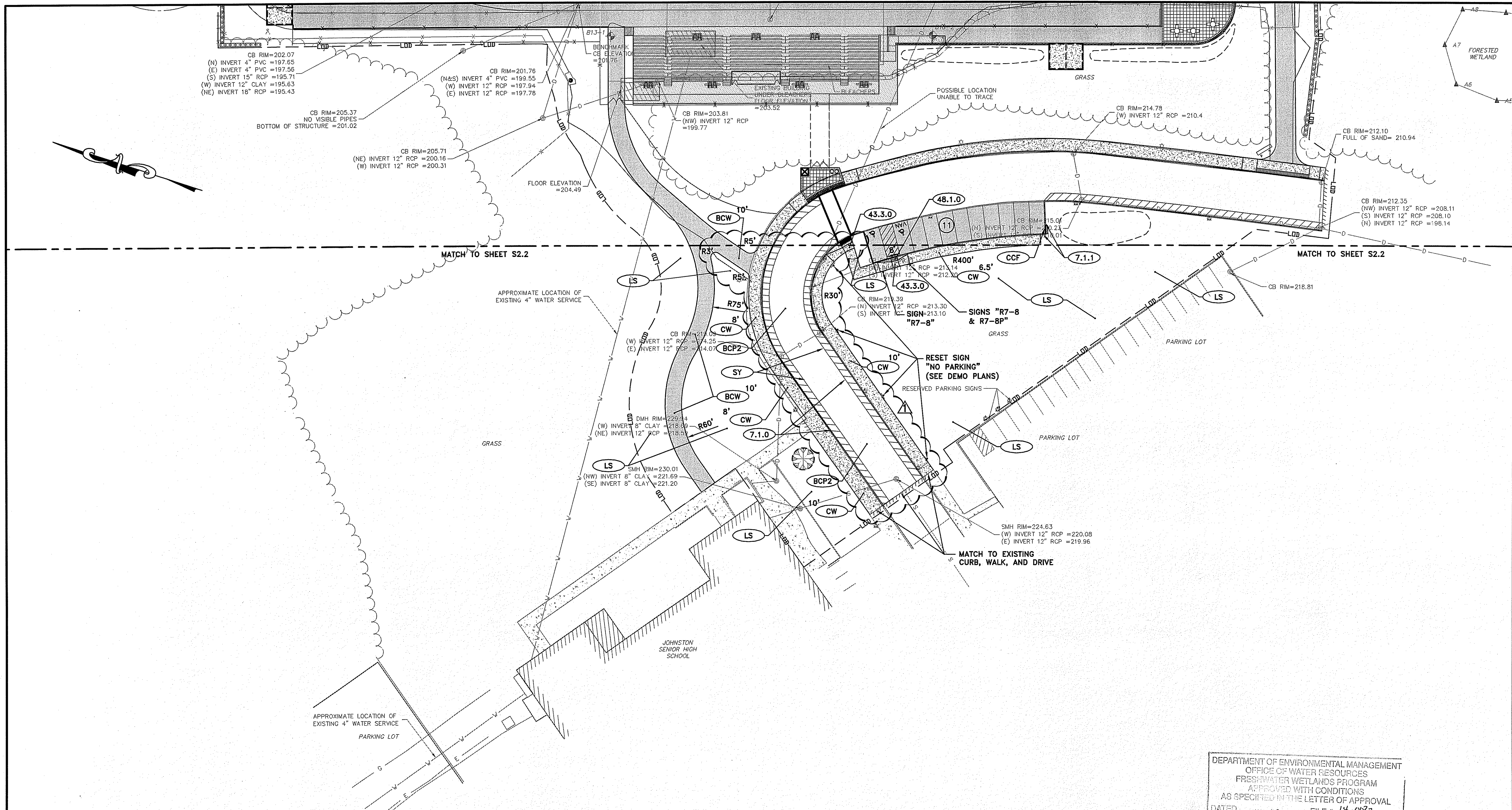
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SITE IMPROVEMENT PLAN 1

S2.1



ALTERNATE #1

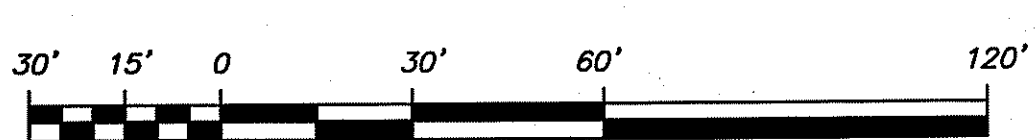
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ALT 1: PROVIDE ALL WORK ASSOCIATED WITH FURNISHING THE CONCESSION STAND INCLUDING SHOP DRAWINGS, DESIGN DRAWINGS, LOCAL PERMITS, CONSTRUCTION MATERIALS, AND METHODS FOR THE CONCESSION BUILDING.

ALTERNATE #3

PEDESTRIAN PAVING UPGRADES
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ALT 3: SEE LANDSCAPE PLANS.

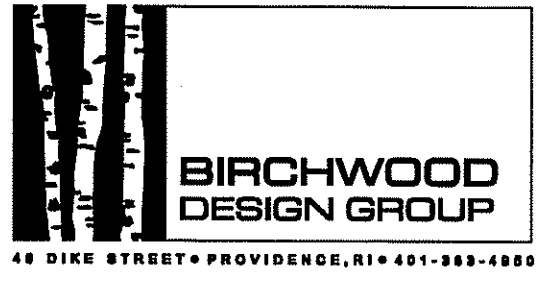
NOTE:
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Graphic Scale 1"=30'

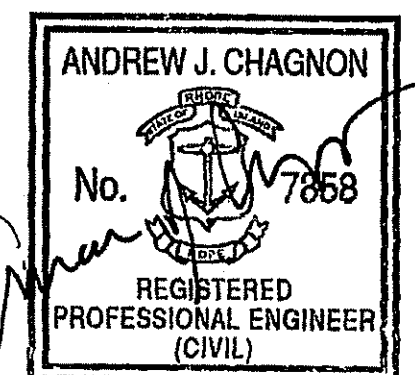


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Matthew D. Wenzel



CONSULTANTS



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**JOHNSTON
 HIGH SCHOOL FIELD
 RENOVATIONS**
 345 CHERRY HILL ROAD
 JOHNSTON, RI
 ASSESSOR'S PLAT 47 LOT 9

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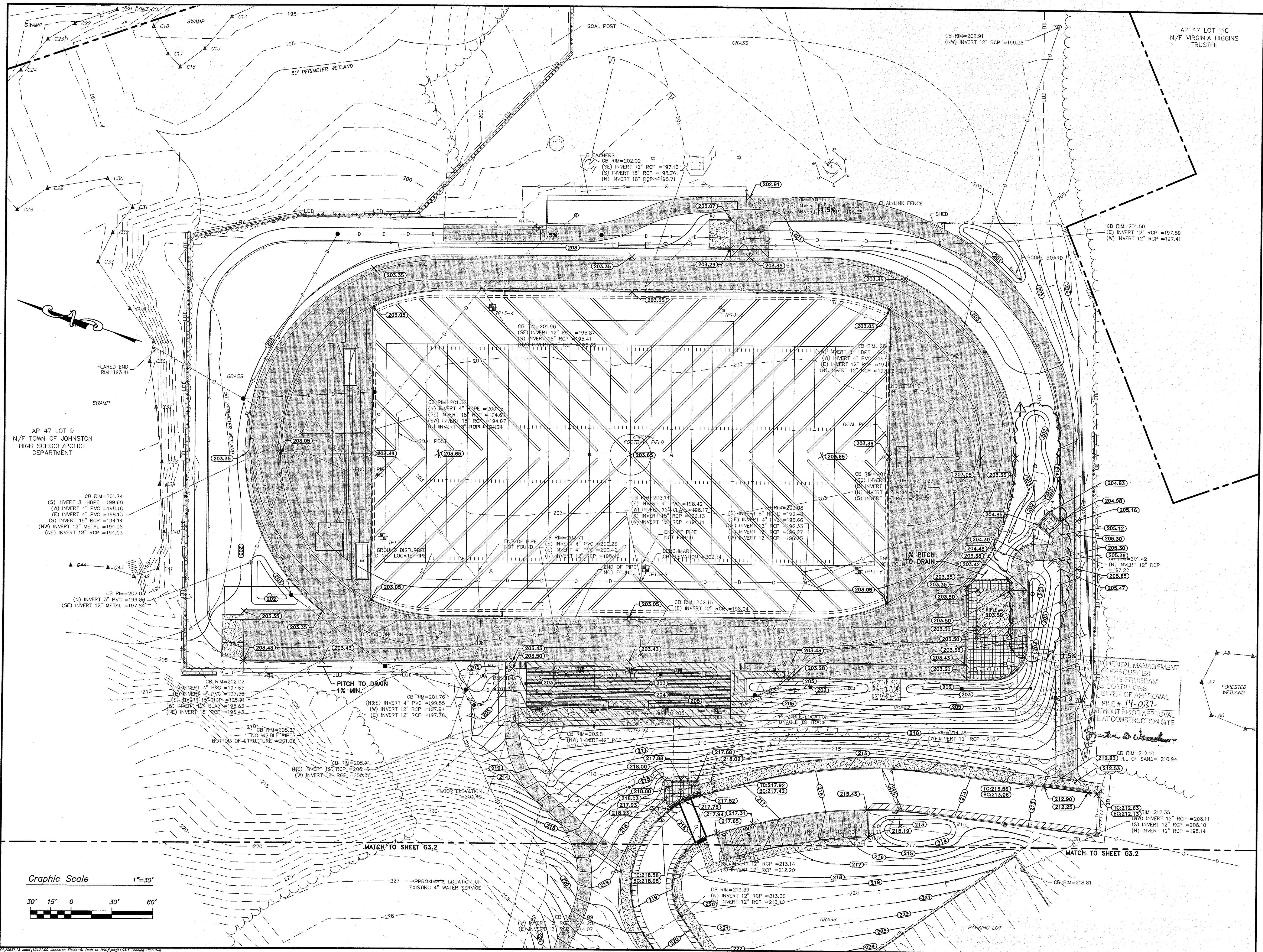
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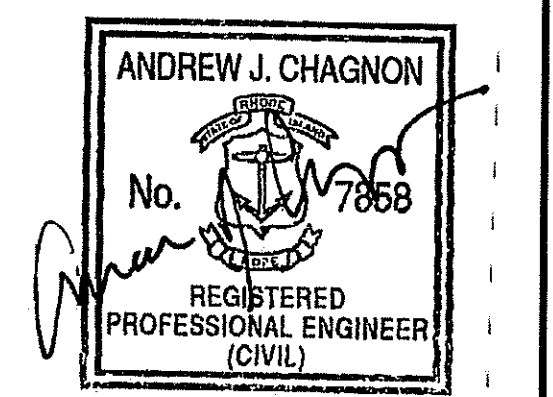
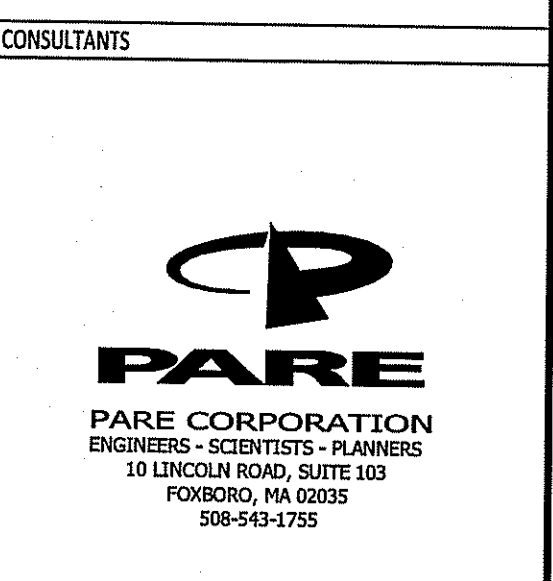
**SITE IMPROVEMENT
 PLAN 2**

S2.2



AP 47 LOT 110
N/F VIRGINIA HIGGINS
TRUSTEE

AP 47 LOT 9
N/F TOWN OF JOHNSTON
HIGH SCHOOL/POLICE
DEPARTMENT



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Environmental Management
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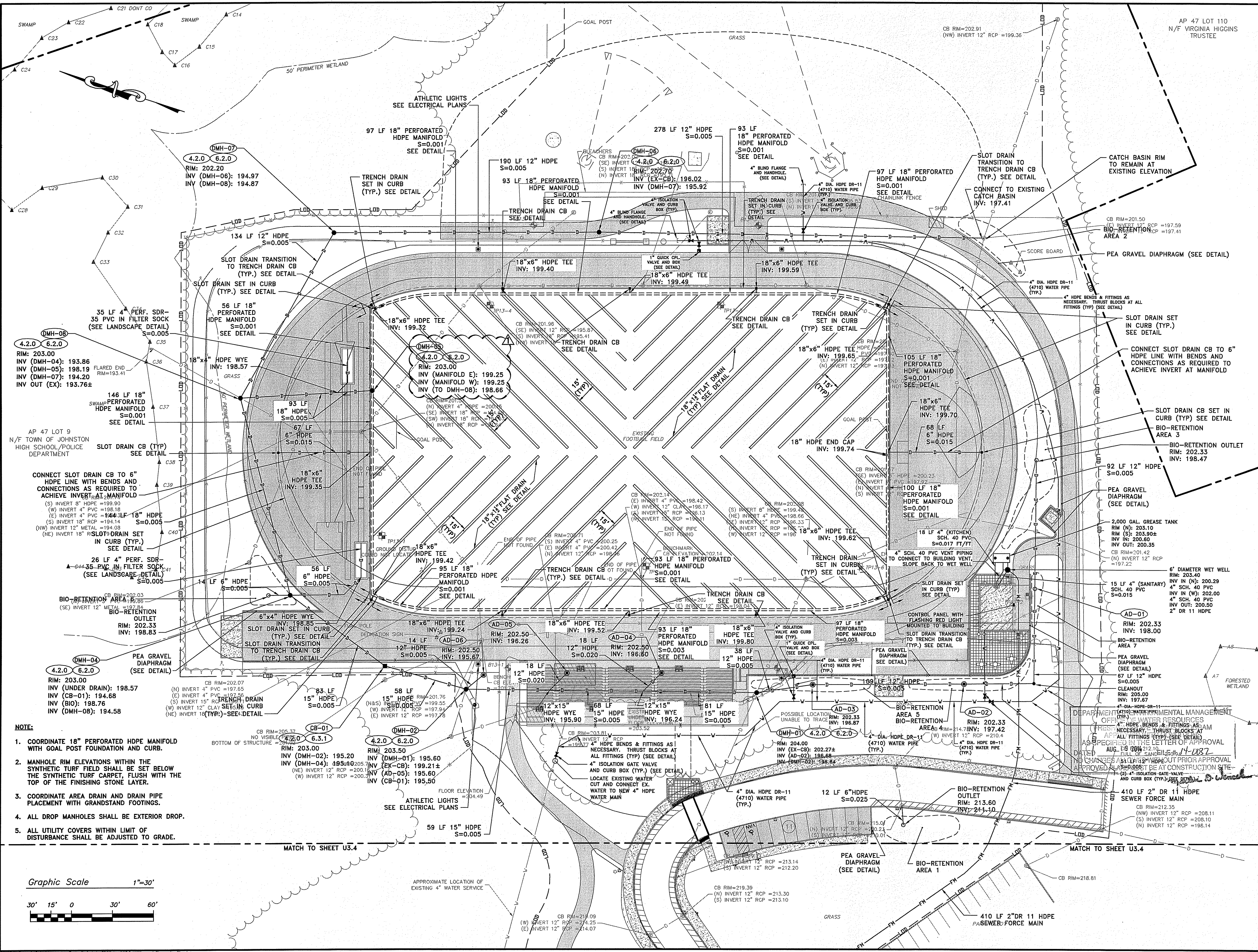
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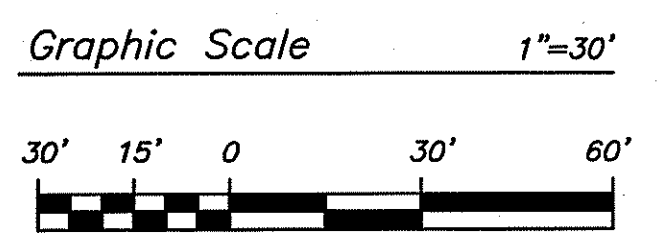
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GRADING PLAN 1

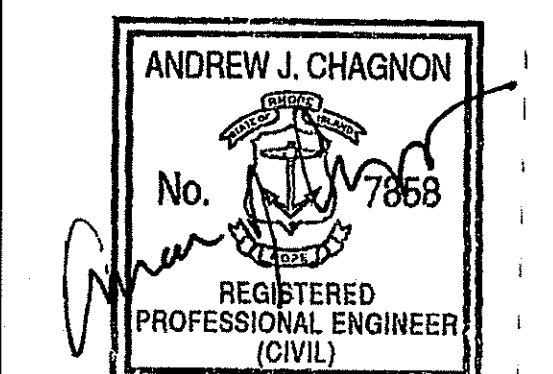
G3.1



- NOTE:**
- COORDINATE 18" PERFORATED HDPE MANIFOLD WITH GOAL POST FOUNDATION AND CURB.
 - MANHOLE RIM ELEVATIONS WITHIN THE SYNTHETIC TURF FIELD SHALL BE SET BELOW THE SYNTHETIC TURF CARPET, FLUSH WITH THE TOP OF THE FINISHING STONE LAYER.
 - COORDINATE AREA DRAIN AND DRAIN PIPE PLACEMENT WITH GRANDSTAND FOOTINGS.
 - ALL DROP MANHOLES SHALL BE EXTERIOR DROP.
 - ALL UTILITY COVERS WITHIN LIMIT OF DISTURBANCE SHALL BE ADJUSTED TO GRADE.



CONSULTANTS



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JOHNSTON HIGH SCHOOL FIELD RENOVATIONS
 345 CHERRY HILL ROAD
 JOHNSTON, RI
 ASSESSOR'S PLAT 47 LOT 9

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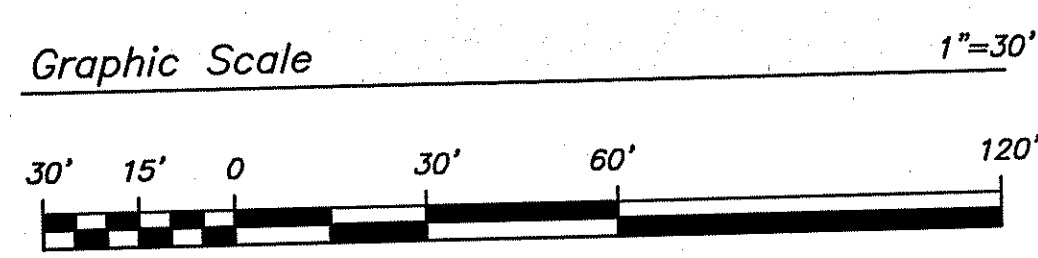
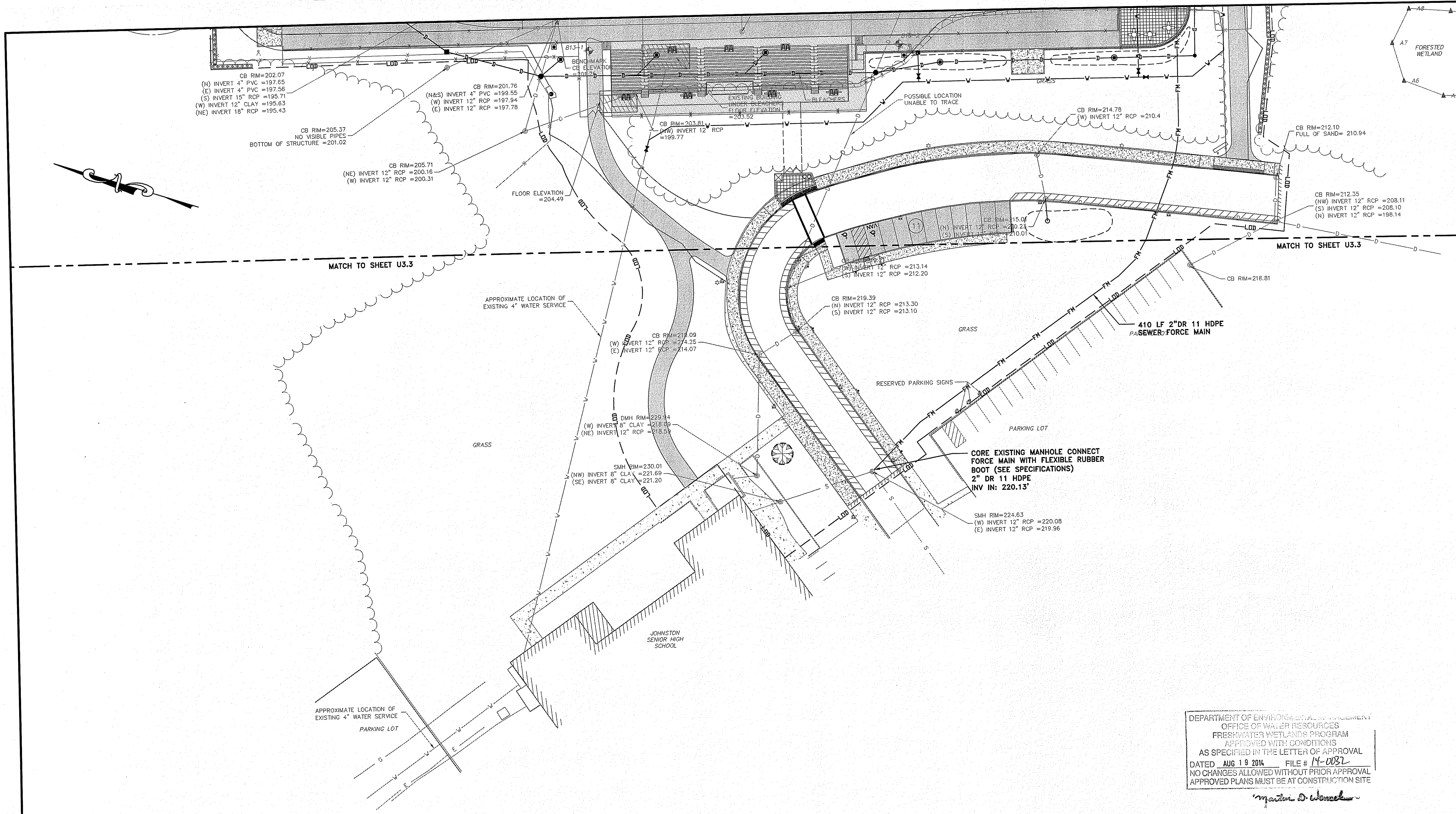
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UTILITIES & STORMWATER PLAN 1

U3.3

SHEET 12 OF 31



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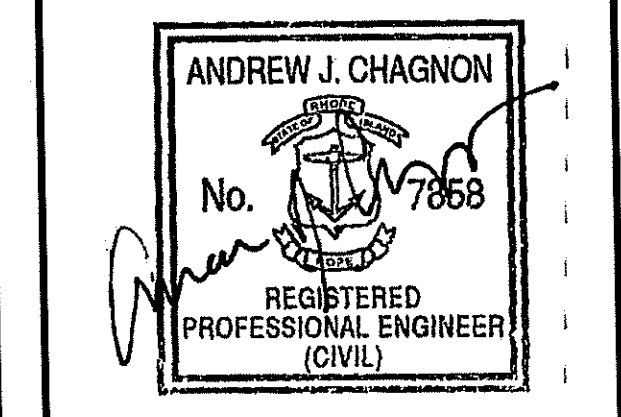
Martin D. Wenzel

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 FOWBRO, MA 02035
 508-543-1755



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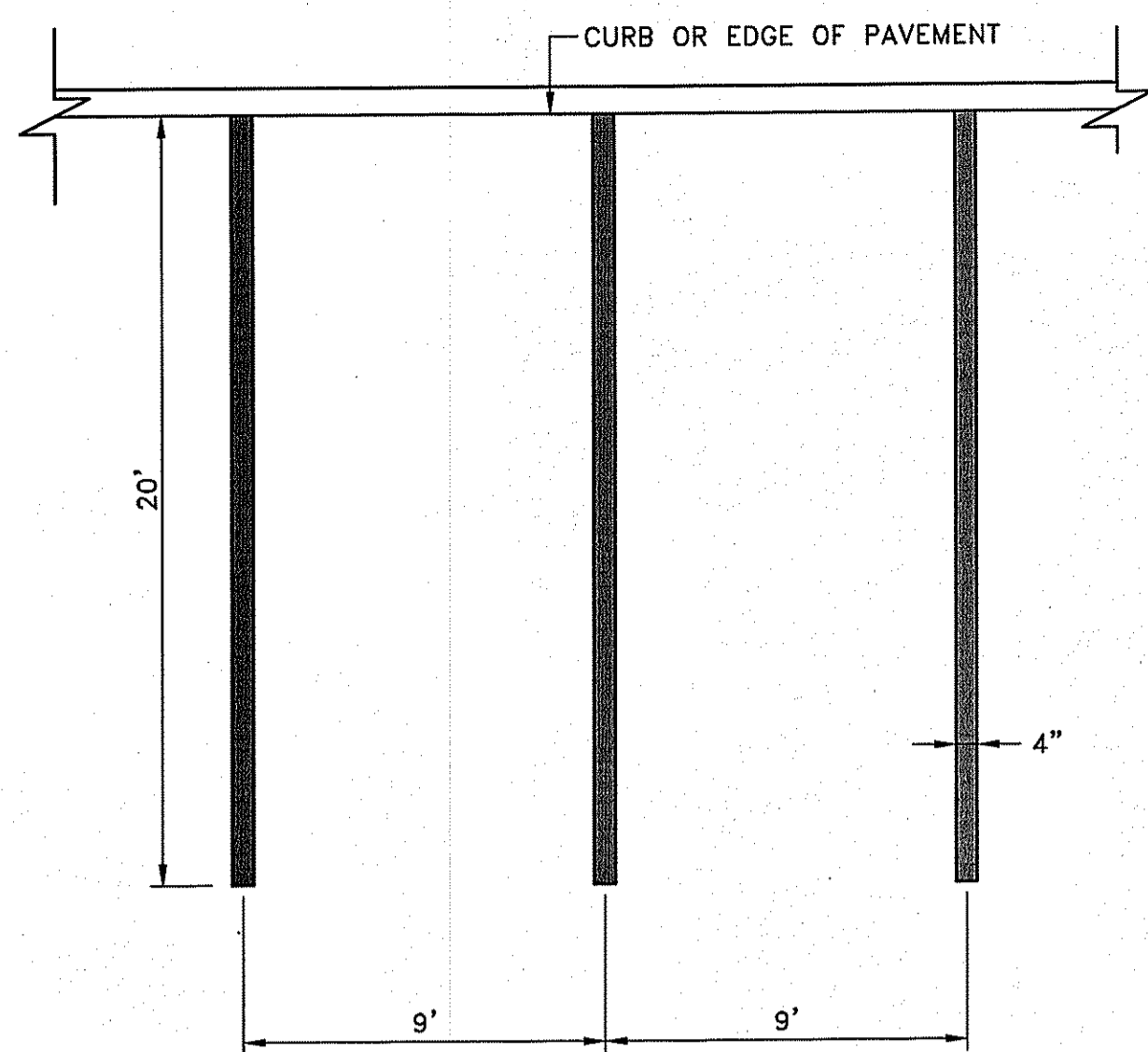
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PROJECT NO: 13121.00
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 DRAWN BY: AWB
 CHK'D BY: TGP
 DATE: MARCH 27, 2014
 COPYRIGHT:
 SHEET TITLE

**UTILITIES &
 STORMWATER
 PLAN 2**

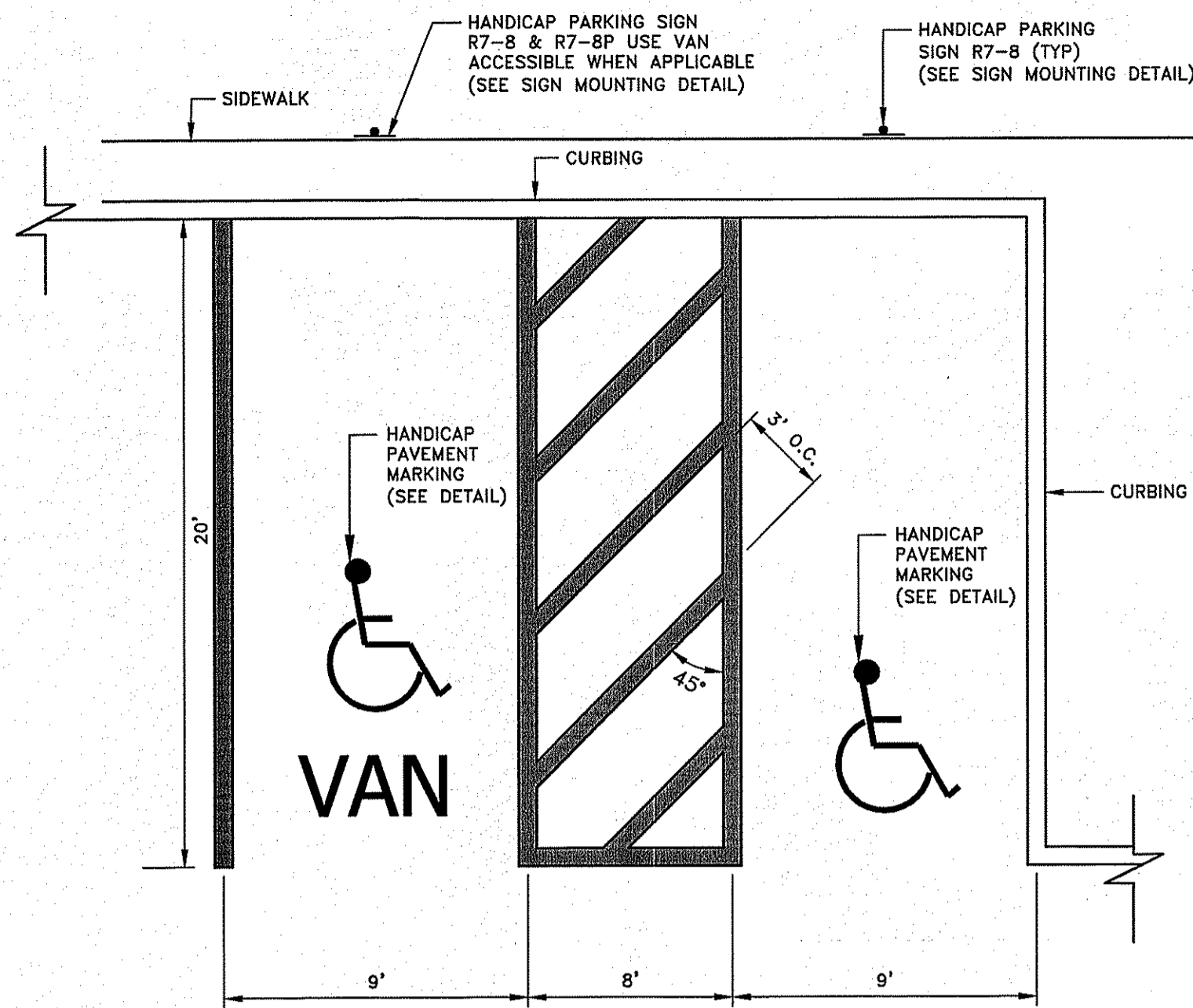
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SHEET 13 OF 31



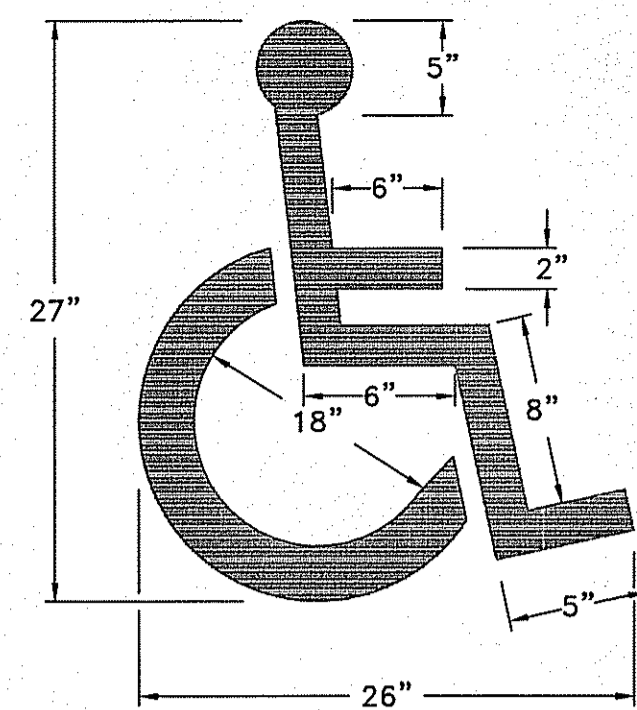
NOTE:
1. STRIPING SHOULD BE WHITE IN COLOR.

TYPICAL PARKING STALL DETAIL
NOT TO SCALE



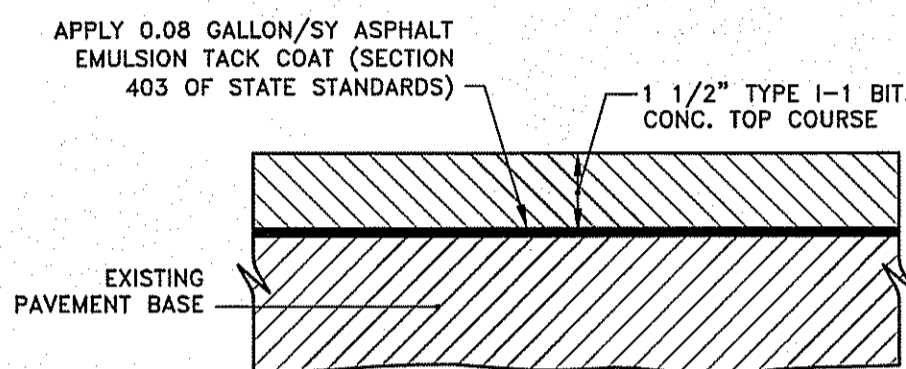
NOTE:
1. WHERE STALLS ABUT SIDEWALK, PARKING SIGNS SHOULD BE PLACED AT BACK EDGE OF SIDEWALK.
2. STRIPING SHOULD BE WHITE IN COLOR.

HANDICAP PARKING STALLS @ 90°
NOT TO SCALE

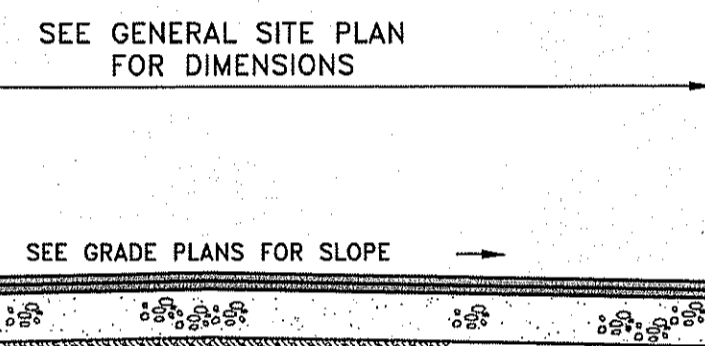


NOTE:
1. ALL HANDICAP PARKING AND SIGNAGE SHALL BE IN CONFORMANCE WITH THE RULES & REGULATIONS OF ADA GUIDELINES.

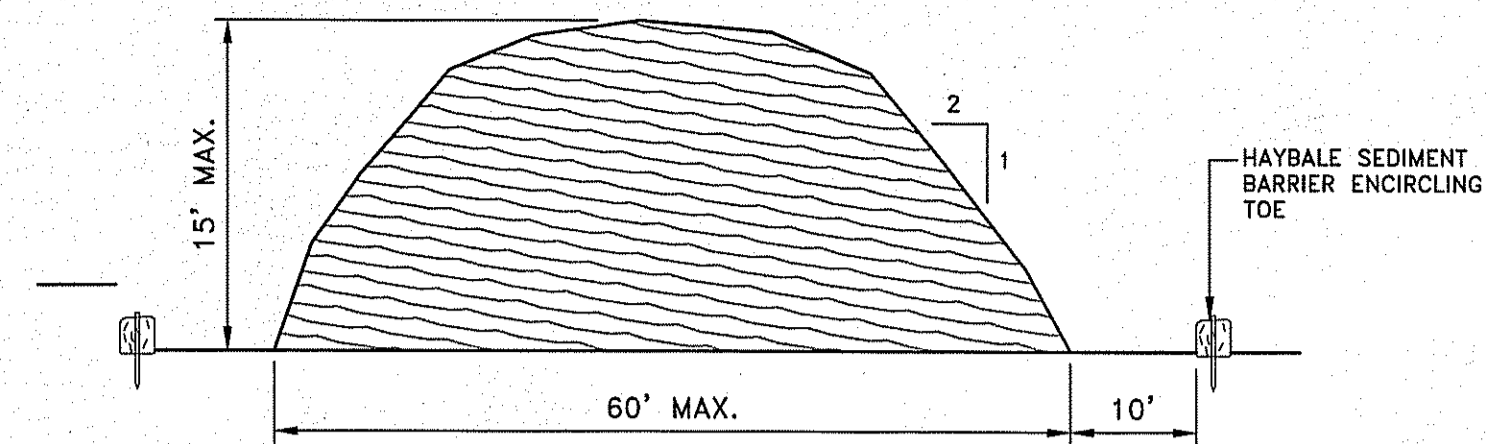
HANDICAP PAVEMENT MARKING
NOT TO SCALE



BITUMINOUS CONCRETE PAVEMENT 2 DETAIL
NOT TO SCALE

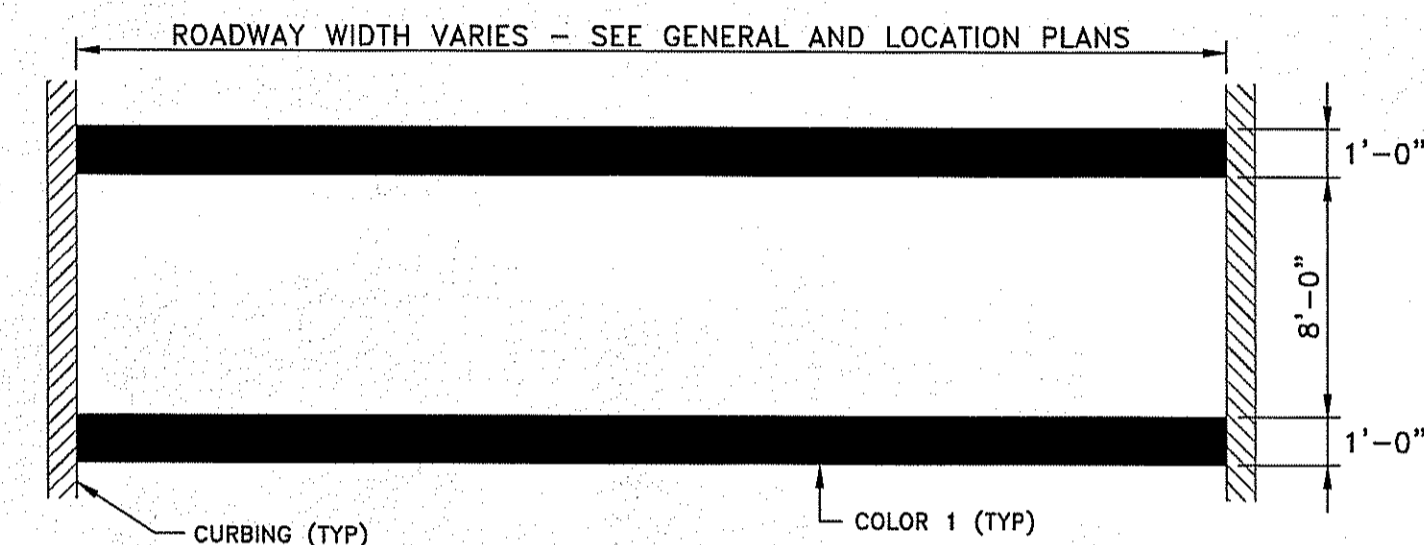


TYPICAL BITUMINOUS CONCRETE PAVEMENT SECTION
NOT TO SCALE



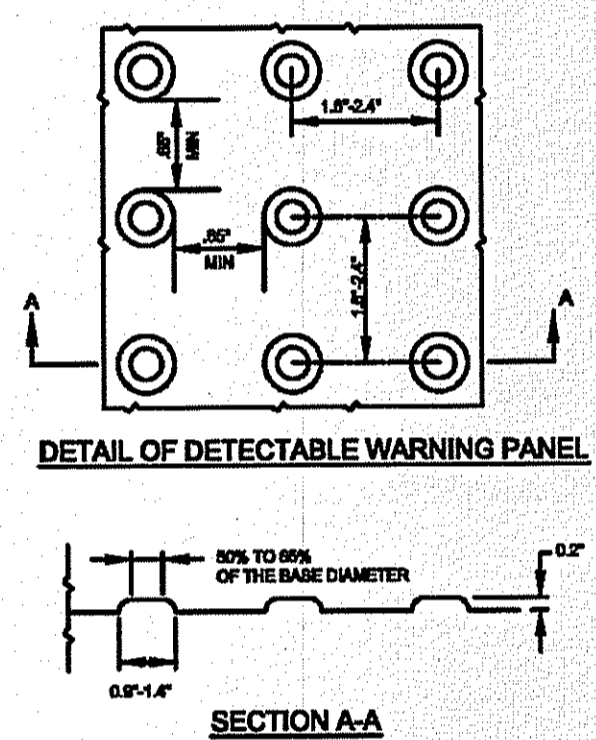
NOTES:
1. STOCKPILE AREA SHALL NOT EXCEED SPECIFIED DIMENSIONS WITHOUT APPROVAL FROM ENGINEER.
2. STOCKPILED ERODIBLE MATERIAL THAT WILL NOT BE USED FOR GREATER THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION IMMEDIATELY FOLLOWING PLACEMENT.
3. NO STOCKPILE SHALL BE PLACED WITHIN THE 100 FOOT BUFFER.

ERODIBLE MATERIAL STOCKPILE
NOT TO SCALE



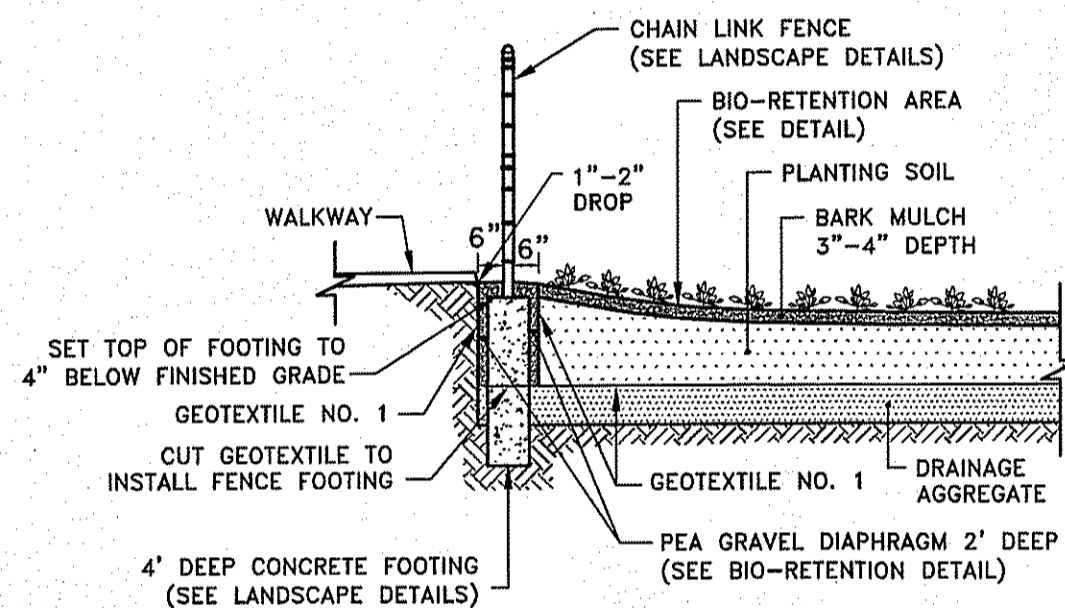
NOTES:
1. SEE SPECIFICATIONS FOR PRODUCT DATA, CONDITIONS, AND EXECUTION.
2. STRIPING SHALL BE EPOXY RESIN CONFORMING TO THE STATE STANDARDS.
3. COORDINATE COLORS AND STRIPE PATTERN WITH OWNER PRIOR TO FURNISHING AND INSTALLING.

CROSSWALK
NOT TO SCALE



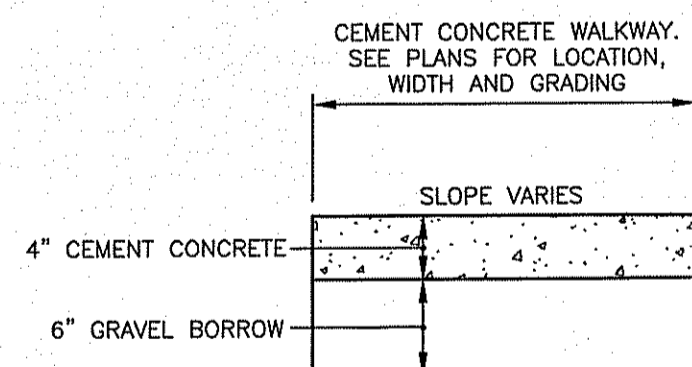
NOTE:
PANELS SHALL BE CAST IN PLACE. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT. COORDINATE COLOR SELECTION WITH OWNER PRIOR TO FURNISHING AND INSTALLING.

DETECTABLE WARNING PANEL FOR WHEELCHAIR RAMP DETAIL
NOT TO SCALE

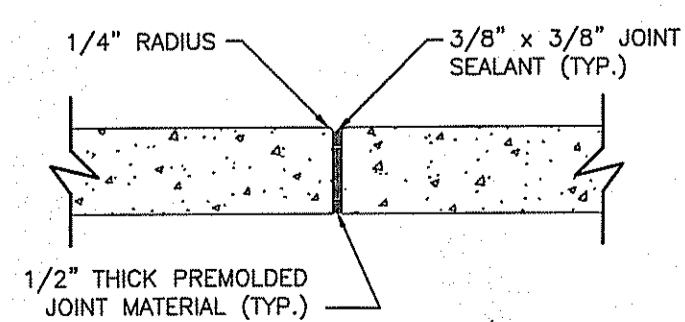


NOTE:
SEE SITE PLANS FOR LOCATIONS OF PEA GRAVEL DIAPHRAGM AND FENCE INSTALLATIONS.

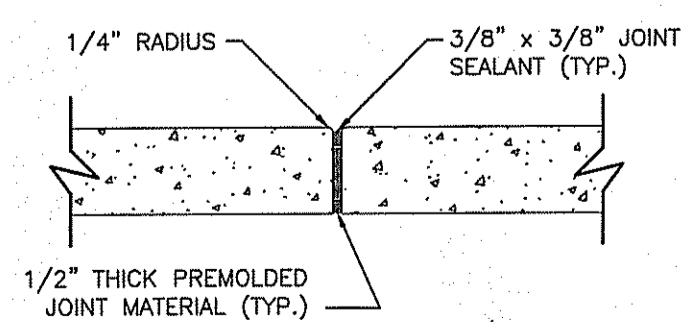
FENCE POST INSTALLATION AT PEA GRAVEL DIAPHRAGM DETAIL
NOT TO SCALE



CEMENT CONCRETE WALKWAY DETAIL
NOT TO SCALE



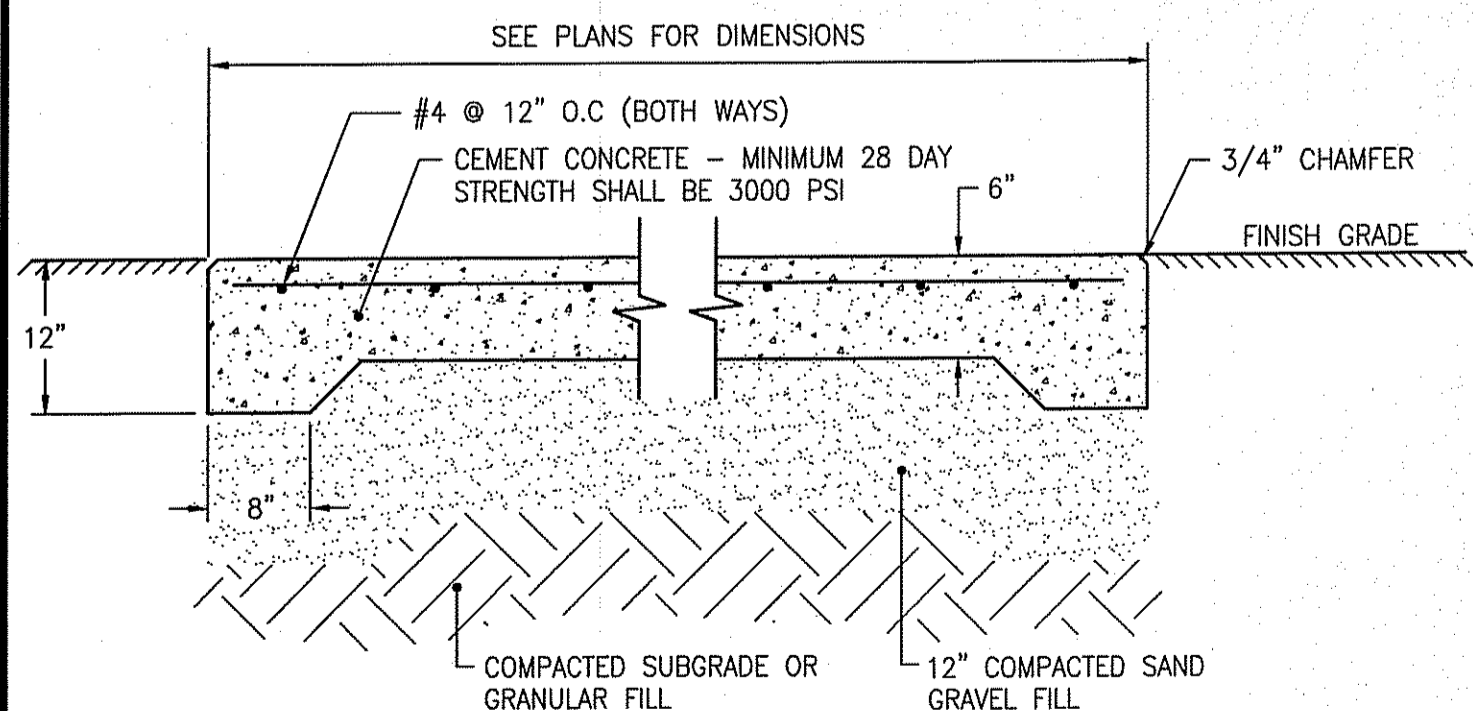
CEMENT CONCRETE CONTROL JOINT
NOT TO SCALE



CEMENT CONCRETE ISOLATION JOINT
NOT TO SCALE

NOTES:
1. CEMENT CONCRETE FOR SIDEWALK SHALL ATTAIN COMPRESSIVE STRENGTH OF 4000 PSI (28 DAYS) WITH AIR ENTRAINMENT CONTENT OF 7%.
2. CONSTRUCTION JOINTS WITH 1/4" PREMOLDED EXPANSION JOINT FILLER SHALL BE PLACED EVERY 20 FEET.
3. IF SIDEWALK IS TO ABUT A SMOOTH WALL, FOUNDATION OR STATIONARY OBJECT, PLACE THE EXPANSION JOINT FILLER FULL DEPTH, BETWEEN SIDEWALK CONCRETE AND SURFACE OF WALL, FOUNDATION OR STATIONARY OBJECT.
4. IF SIDEWALK IS TO ABUT AN IRREGULAR WALL, FOUNDATION OR STATIONARY OBJECT, PLACE THE EXPANSION JOINT FILLER FULL DEPTH, FOUR (4) INCHES FROM IRREGULAR SURFACE, AND POUR CONCRETE BETWEEN THE ABOVE MENTIONED SURFACES AND THE EXPANSION JOINT MATERIAL.
5. THE FORGING OF PREMOLDED EXPANSION JOINT FILLER INTO FRESHLY PLACED CONCRETE WILL NOT BE ALLOWED.
6. THE MAXIMUM TOLERANCE FOR THE 4" CONCRETE THICKNESS IS ±1/2".
7. GRAVEL BORROW SHALL CONFORM TO R.I. STD. SPECIFICATION MATERIALS SECTION.
8. CEMENT CONCRETE WALKWAYS SHALL BE BROOM FINISHED UNLESS NOTED OTHERWISE.

CEMENT CONCRETE SIDEWALK DETAIL
NOT TO SCALE



NOTES:
1. FOR DUMPSTER AND RELOCATABLE STORAGE UNIT PAD LOCATIONS SEE PLANS.
2. REINFORCING TO BE #4 GRADE 60 BARS AND SHALL CONFORM TO ASTM STANDARD A-615 OF THE LATEST DATA. REINFORCING RODS TO BE LOCATED IN THE CENTER OF THE SLAB, WITH A MINIMUM OF 2" CLEARANCE FROM FACE OF CONCRETE.

CEMENT CONCRETE PAD
NOT TO SCALE

CONSULTANTS

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED **AUG 19 2014** FILE # **14-0022**
Margaret D. Wood

PERMIT SUBMISSION

MARK	DATE	DESCRIPTION
1	04-14-14	BIDEM COMMENTS
PROJECT NO: 13121.00		
SCALE: AS NOTED		
DRAWN BY: AWB		
CHK'D BY: TGP		
DATE: MARCH 27, 2014		
COPYRIGHT:		
SHEET TITLE		

CIVIL DETAILS-1

CD4.1

CIRCULAR CURB

NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
 2. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0".
 3. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
 4. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADIUS OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.
 5. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST CONCRETE CURB
 R.I. STANDARD 7.1.0
 JUN 15, 1998

3'-0" PRECAST CONCRETE TRANSITION CURB

NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
 2. DRAWING SHOWS TRANSITION CURB FOR ONE DIRECTION, FOR OTHER DIRECTION USE OPPOSITE HAND AND INCLUDE A 1/2" x 4" EPOXY COATED DOWEL.
 3. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
 4. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.
 5. LEFT AND RIGHT SECTIONS SHALL BE INSTALLED AS REQUIRED.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
3'-0" PRECAST CONCRETE TRANSITION CURB
 R.I. STANDARD 7.1.1
 JUN 15, 1998

CURB SETTING DETAIL

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

SIGN MOUNTING
 NOT TO SCALE

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. lx-x 0.484in 4
 Sec Mod x-x 0.589in 3
 Mom ly-y 0.856in 4
 Sec Mod y-y 0.506in 3

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, RADI AND BORDERS AS SPECIFIED IN "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
 4. FOR HANDICAPPED VAN SPACE USE SIGN AS DETAILED.

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.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PAVEMENT REMOVAL DROP-OFF DETAIL
 R.I. STANDARD 47.1.0
 JUN 15, 1998

BALED HAY EROSION CHECK AND SILT FENCE COMBINED

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

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
BALED HAY EROSION CHECK AND SILT FENCE COMBINED
 R.I. STANDARD 9.3.0
 JUN 15, 1998

CONSTRUCTION ACCESS

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

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
CONSTRUCTION ACCESS
 R.I. STANDARD 9.9.0
 JUN 15, 1998

WHEELCHAIR RAMP

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. IF NO TIME FOR THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE LOCATED WITHIN THE CROSSWALK, THE WHEELCHAIR RAMP SHALL BE LOCATED WITHIN THE CROSSWALK.
 4. CENTERED WHEELCHAIR RAMP SHALL BE LOCATED WITHIN THE CROSSWALK.
 5. LOCATION OF WHEELCHAIR RAMP SHALL BE AS SHOWN ON CONSTRUCTION DRAWINGS.
 6. IN NO INSTANCE SHALL THE SIDEWALK OR SIDEWALK TRANSITION LENGTH BE GREATER THAN 112". HOWEVER, THESE SLIPERS MAY BE FLATTER THAN 112" WHEN WARRANTED BY SUBSEQUENT CONDITIONS.
 7. AN UNRESTRICTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 4'-0" SHALL BE MAINTAINED.
 8. THE WHEELCHAIR RAMP SHALL BE LOCATED UP-SLOPE OF ALL WHEELCHAIR RAMP.
 9. IN NO CASE, WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED BEHIND THE STOP LINE.
 10. THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
 11. THE WHEELCHAIR RAMP SHALL BE CENTERED RADICALLY OPPOSITE THE STOP POINT WHEN POSSIBLE.
 12. THE WHEELCHAIR RAMP SHALL BE CENTERED RADICALLY OPPOSITE THE STOP 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 WARNING TO BE PAID FOR UNDER SECTION 442 OF THE R.I. STANDARD SPECIFICATIONS.
 16. 6" CONCRETE DEPTH FOR CURB WHEELCHAIR RAMP ONLY. USE 4" DEPTH FOR TANGENT (MD-BLOCK) LOCATIONS.

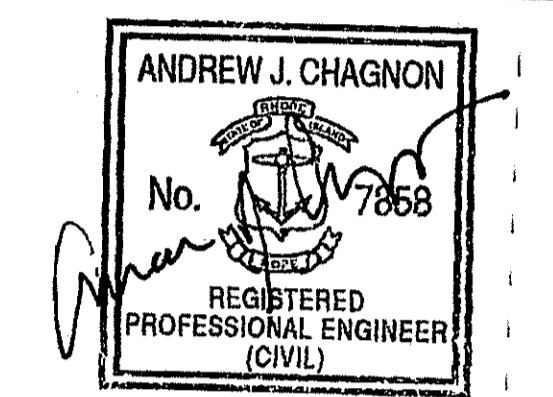
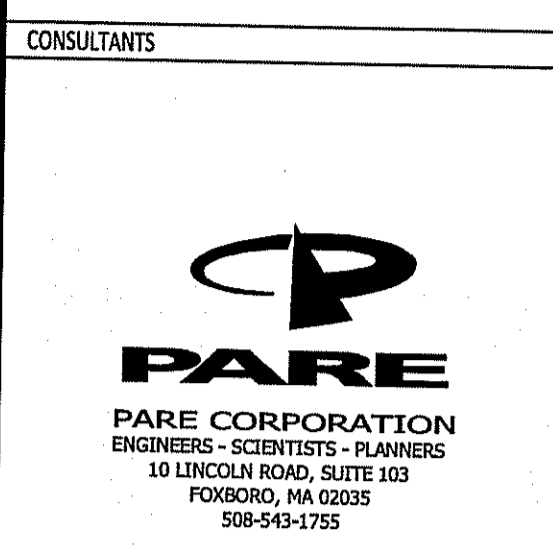
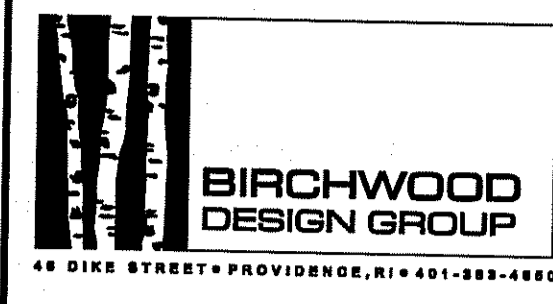
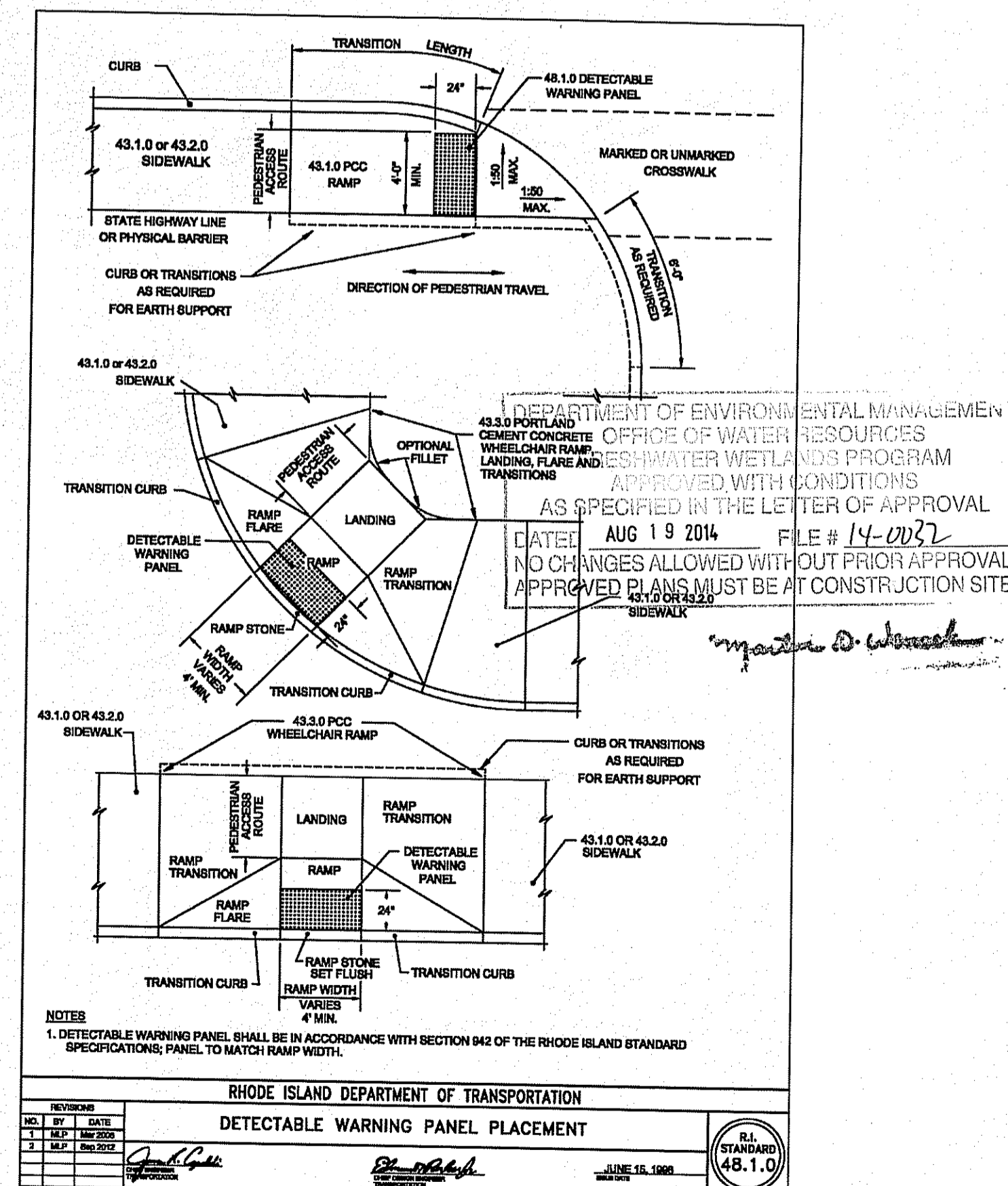
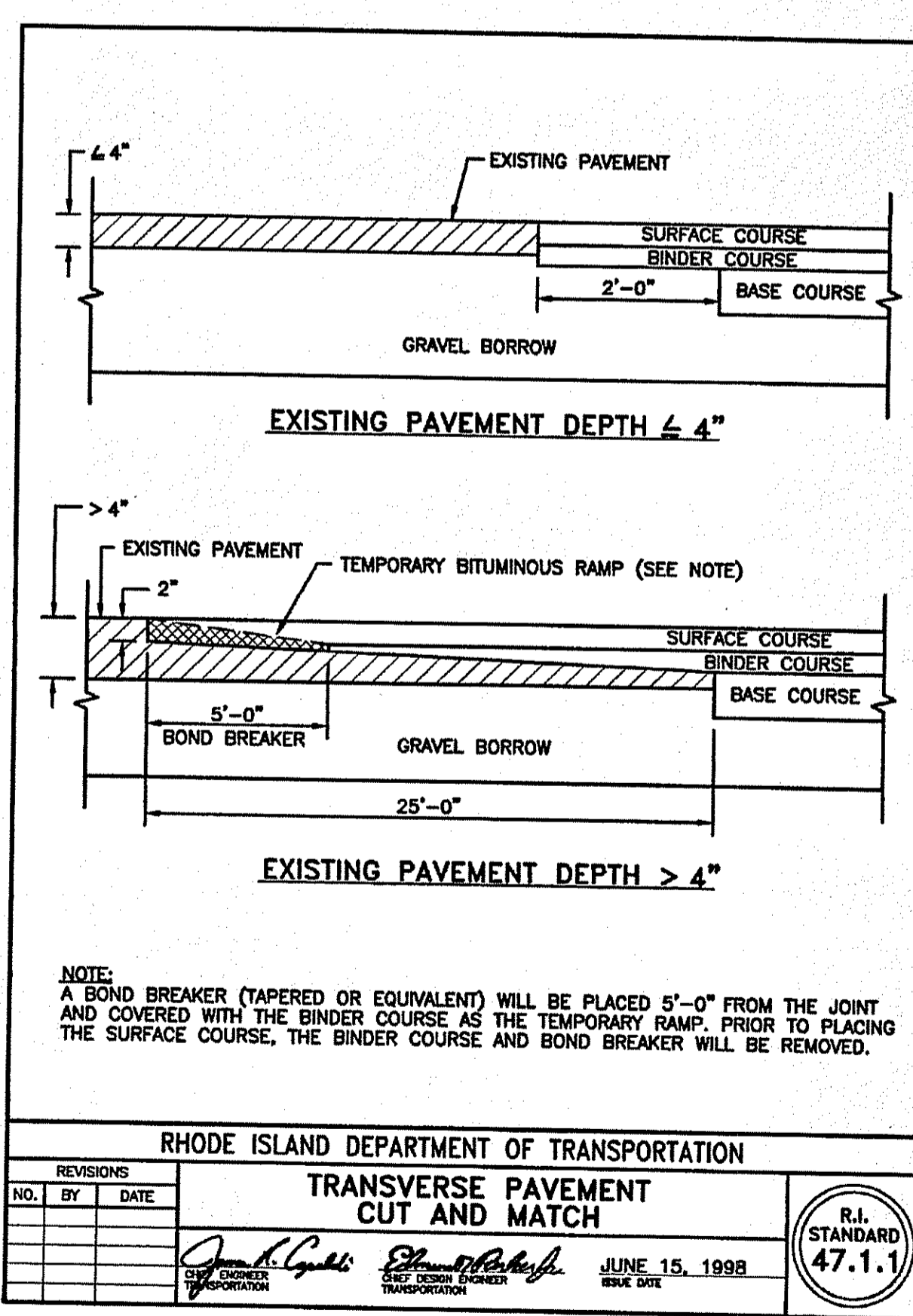
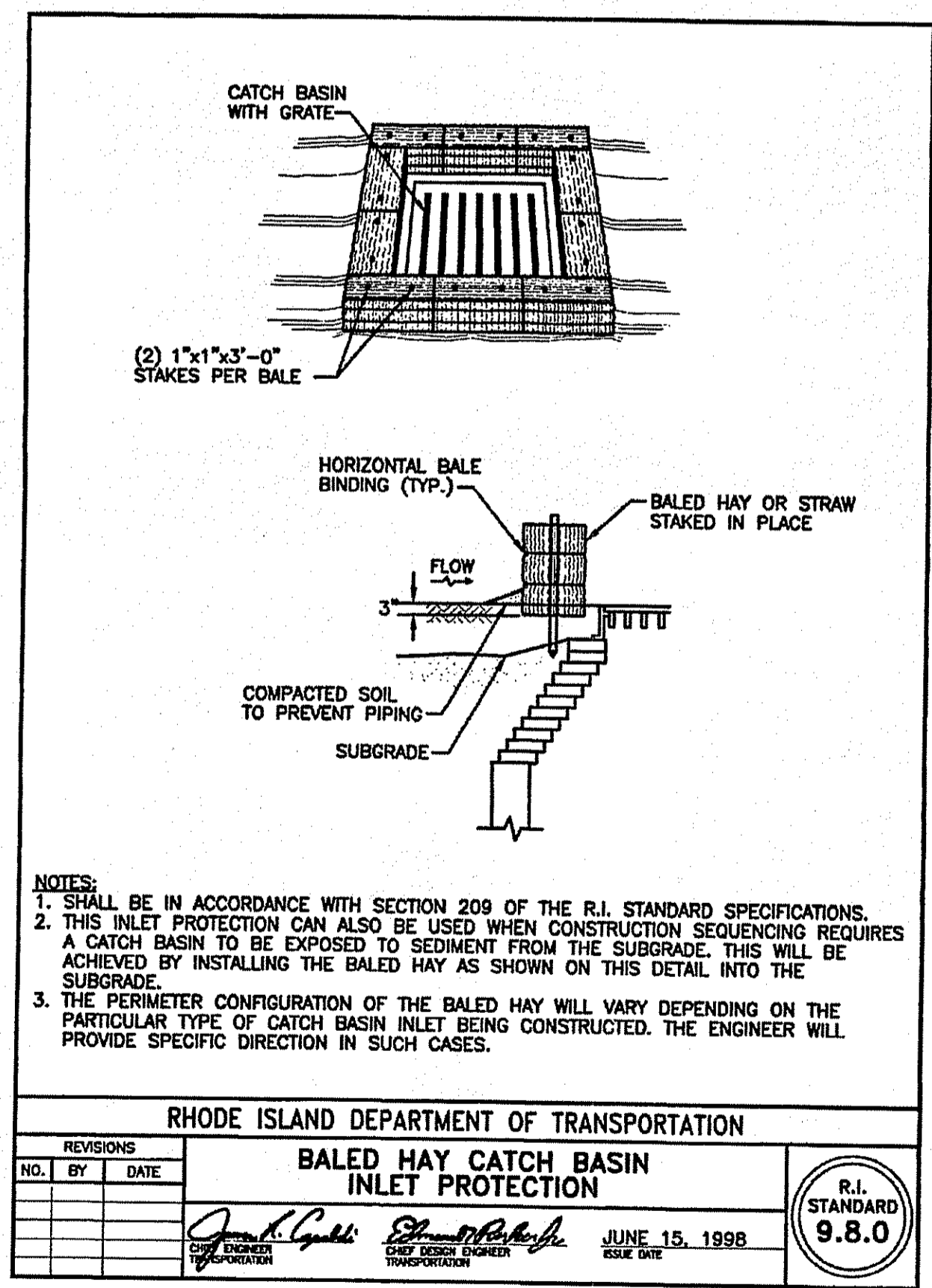
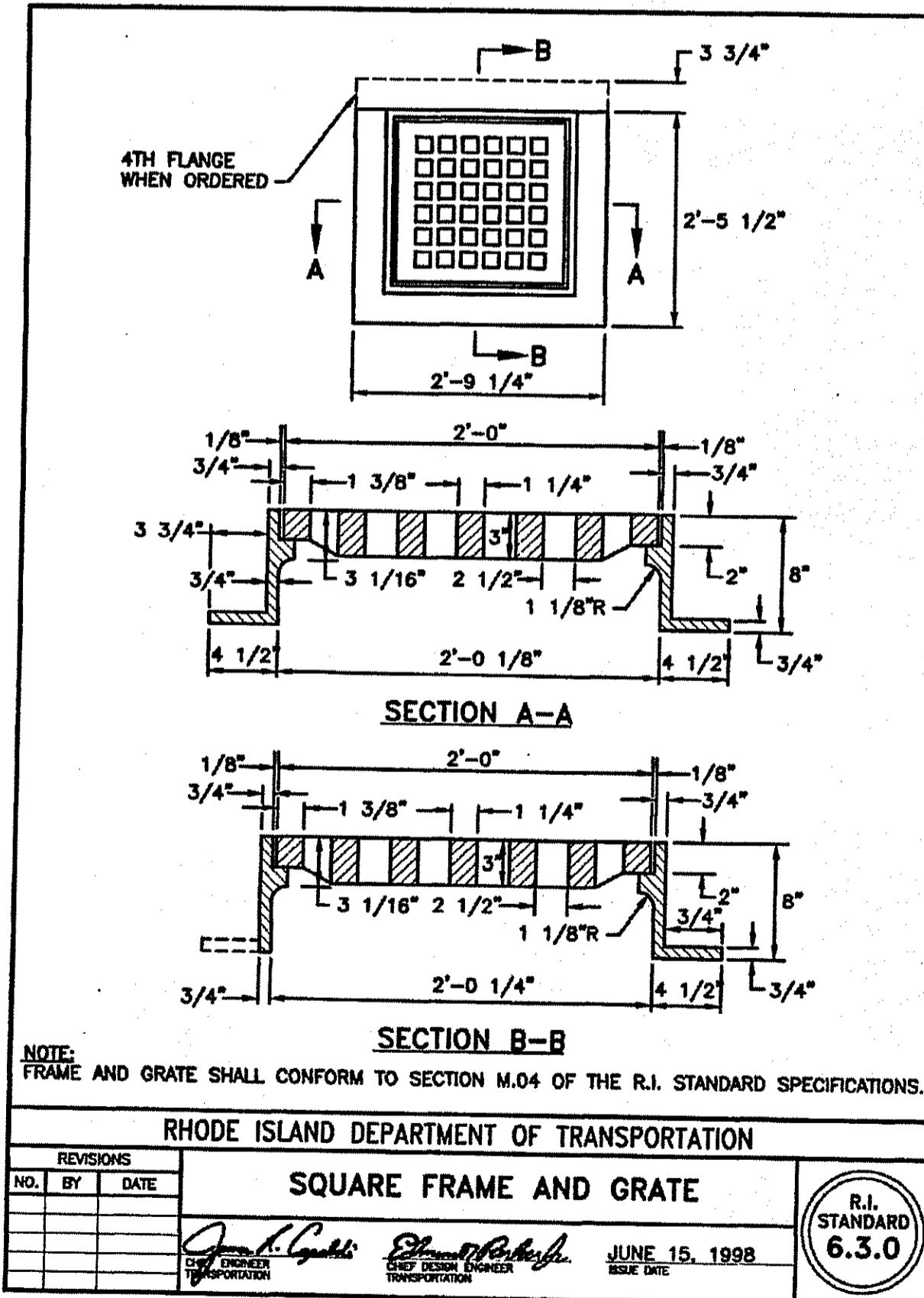
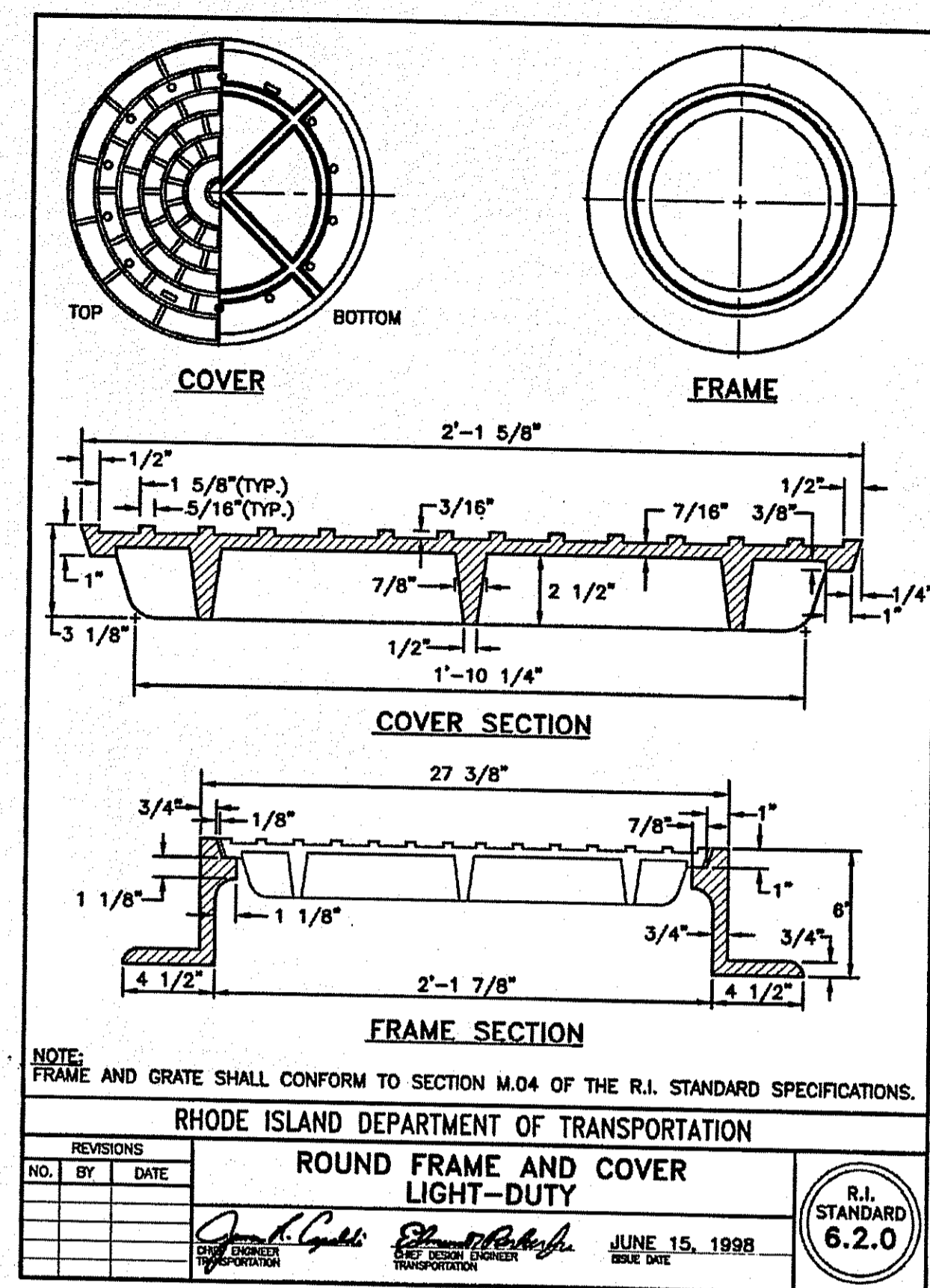
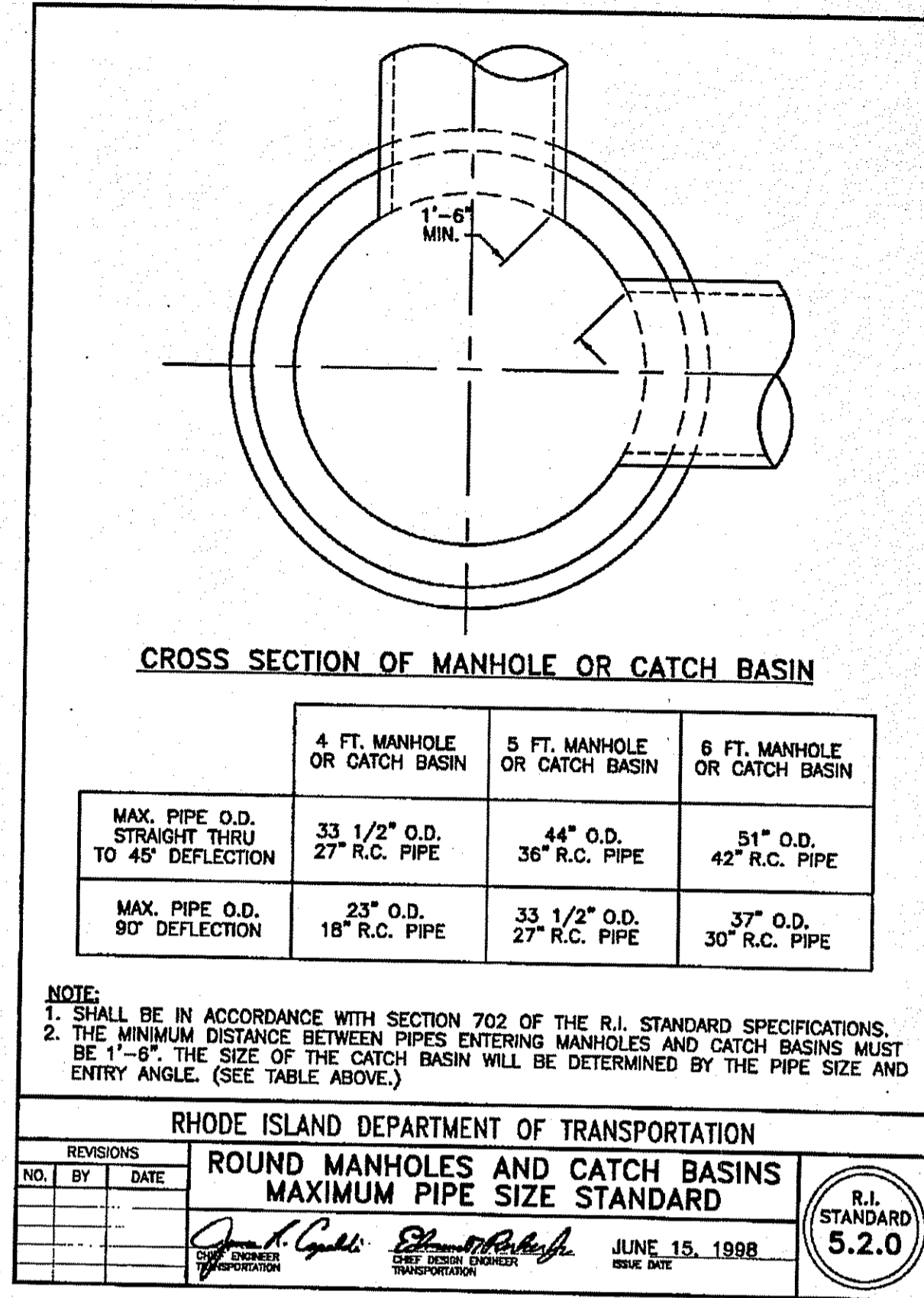
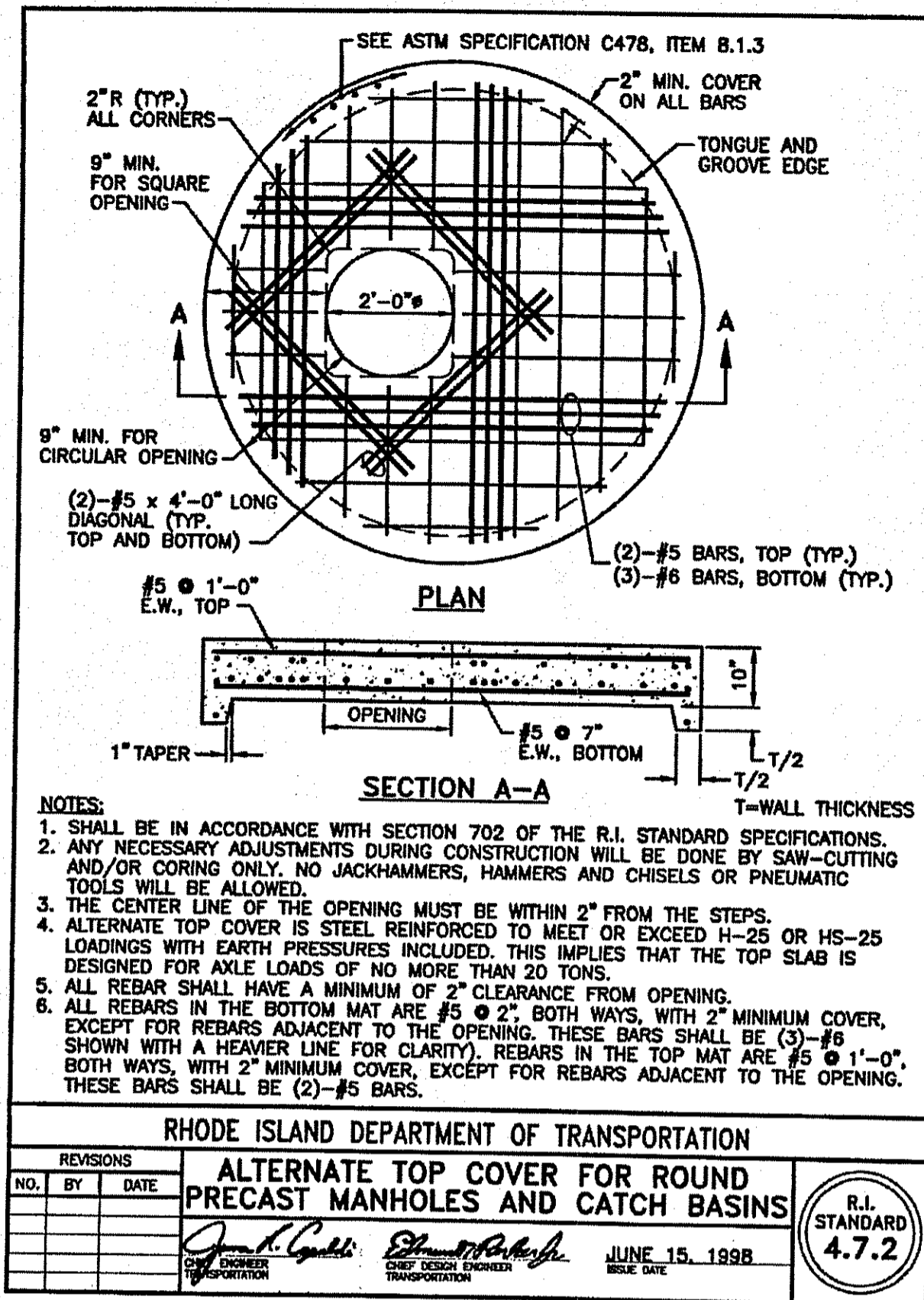
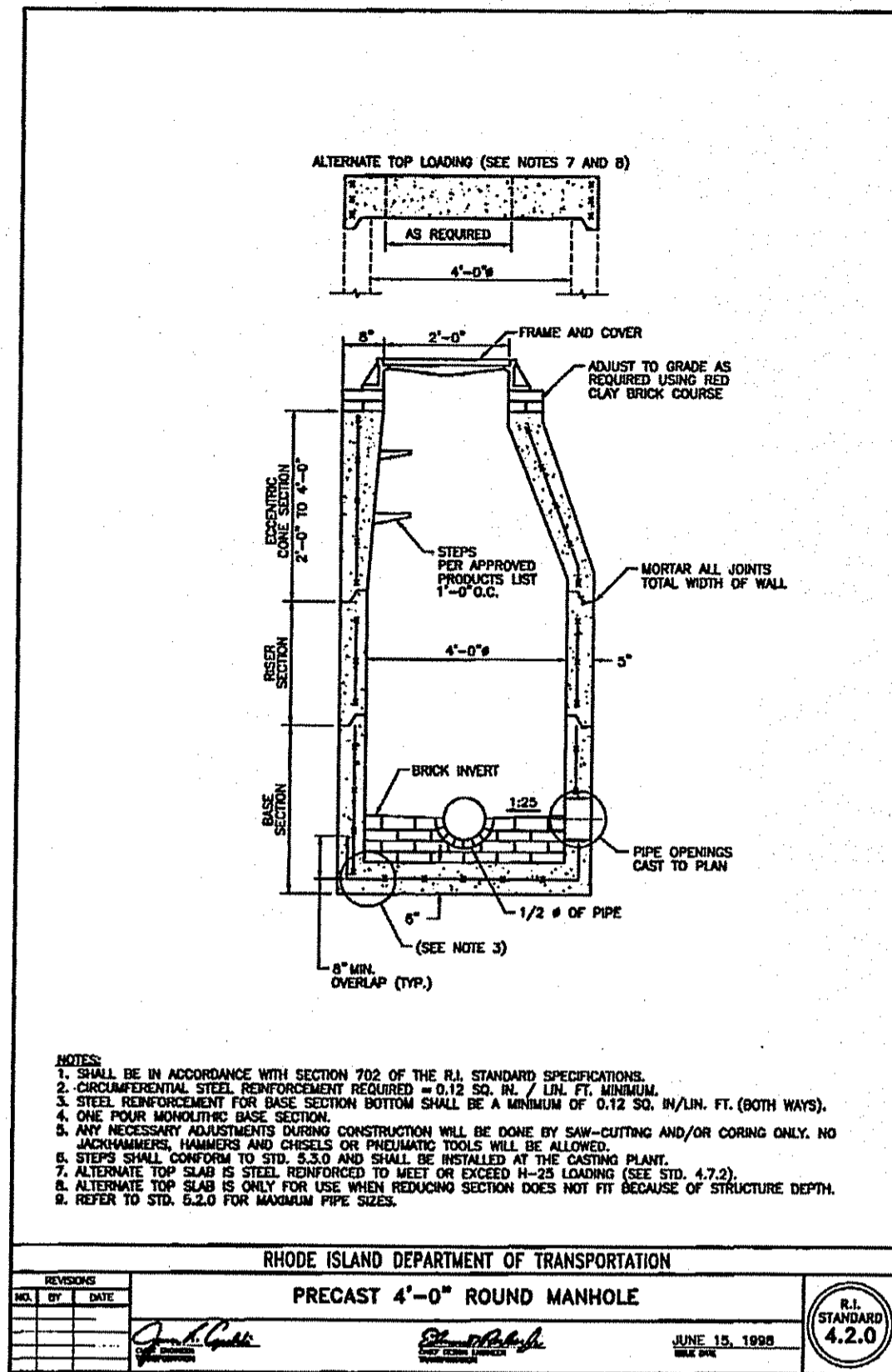
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
WHEELCHAIR RAMP
 R.I. STANDARD 45.3.0
 JUN 15, 1998

PAVEMENT REMOVAL DROP-OFF DETAIL

NOTES:
 1. TRANSVERSE DROP-OFF: POSTED SPEED < 35 M.P.H.: 5 FEET HORIZONTALLY TO 1 INCH VERTICALLY. POSTED SPEED > 35 M.P.H.: 10 FEET HORIZONTALLY TO 1 INCH VERTICALLY.
 2. LONGITUDINAL DROP-OFF (OUTSIDE EDGES OF PAVEMENT): POSTED SPEED < 35 M.P.H.: DROP-OFFS > 3" BUT < 5" SHALL BE TAPERED TO A 1:1 OR FLATTER SLOPE TO EXISTING GROUND. ALL DROP-OFFS > 5" SHALL BE TAPERED TO A 4:1 OR FLATTER SLOPE TO EXISTING GROUND. POSTED SPEED > 35 M.P.H.: LONGITUDINAL DROP-OFFS WILL NOT BE PERMITTED WITHIN 2'-0" OF A TRAVEL LANE. THIS AREA MUST BE AT GRADE WITH THE TRAVEL LANE. HOWEVER, SHOULD THE CONTRACTOR'S APPROVED SEQUENCE OF OPERATIONS RESULT IN OVERNIGHT DROP-OFFS GREATER THAN THREE INCHES OCCURRING BETWEEN 2'-0" TO 8'-0" FROM A TRAVEL LANE, THEN THE DROP-OFFS SHALL BE TAPERED TO A 4:1 OR FLATTER SLOPE TO EXISTING GROUND.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PAVEMENT REMOVAL DROP-OFF DETAIL
 R.I. STANDARD 47.1.0
 JUN 15, 1998

PROJECT NO:	13121.00
SCALE:	AS NOTED
DRAWN BY:	AWB
CHK'D BY:	TGP
DATE:	MARCH 27, 2014
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SHEET TITLE:	



OWNER
JOHNSTON
HIGH SCHOOL FIELD
RENOVATIONS
345 CHERRY HILL ROAD
JOHNSTON, RI
ASSESSOR'S PLAT 47 LOT 9

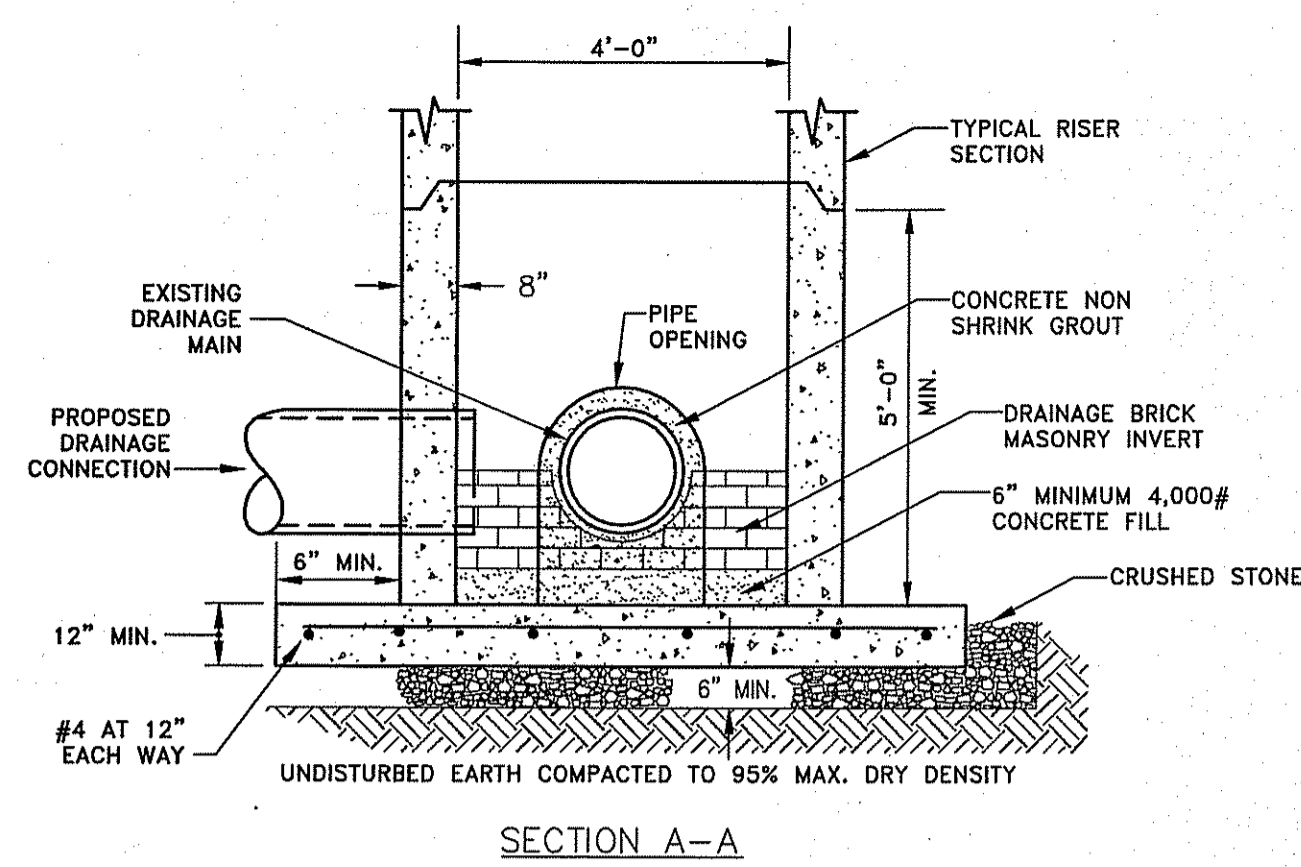
AUG 14 2014
Office of Water Resources

PERMIT SUBMISSION

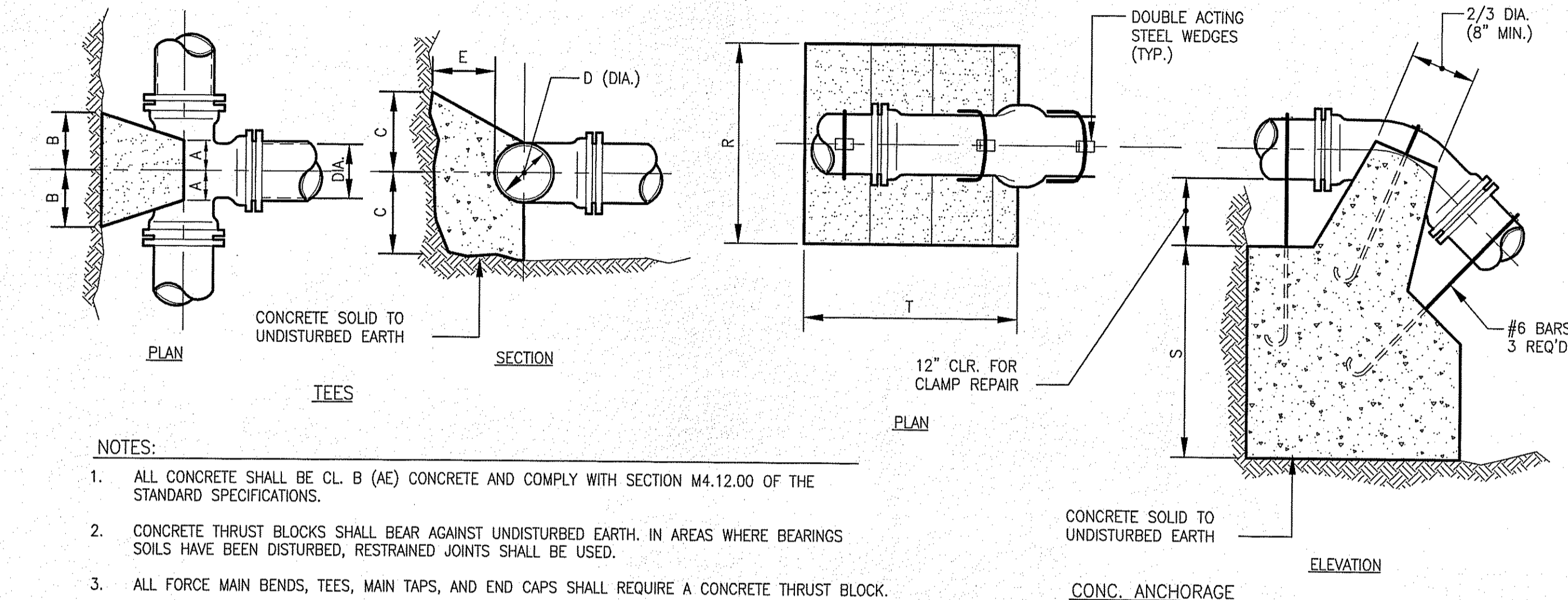
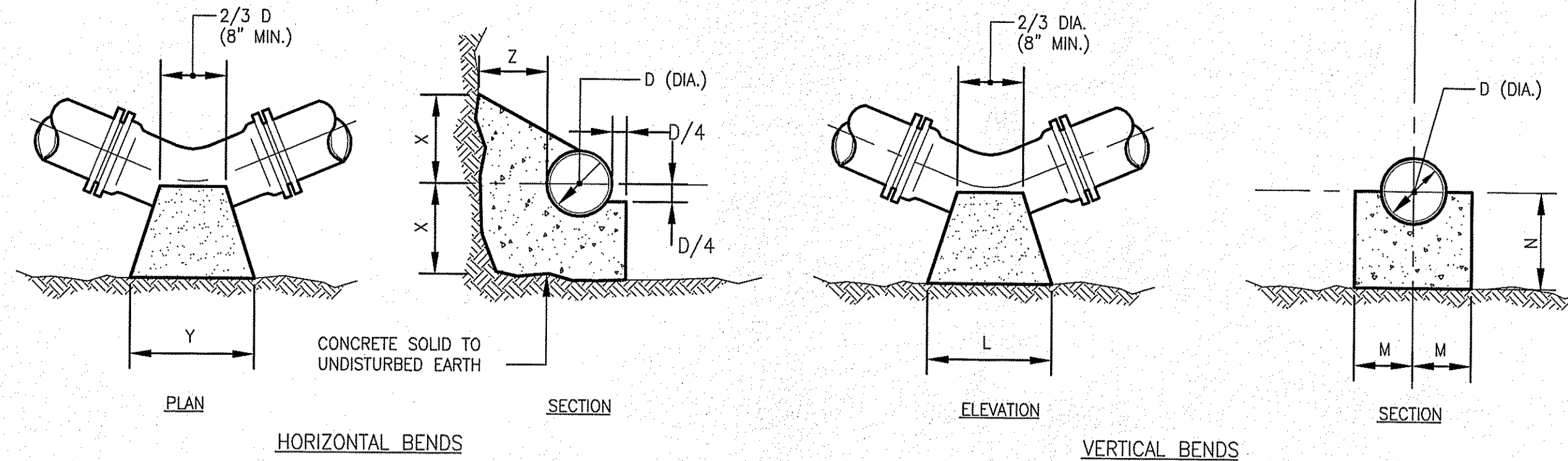
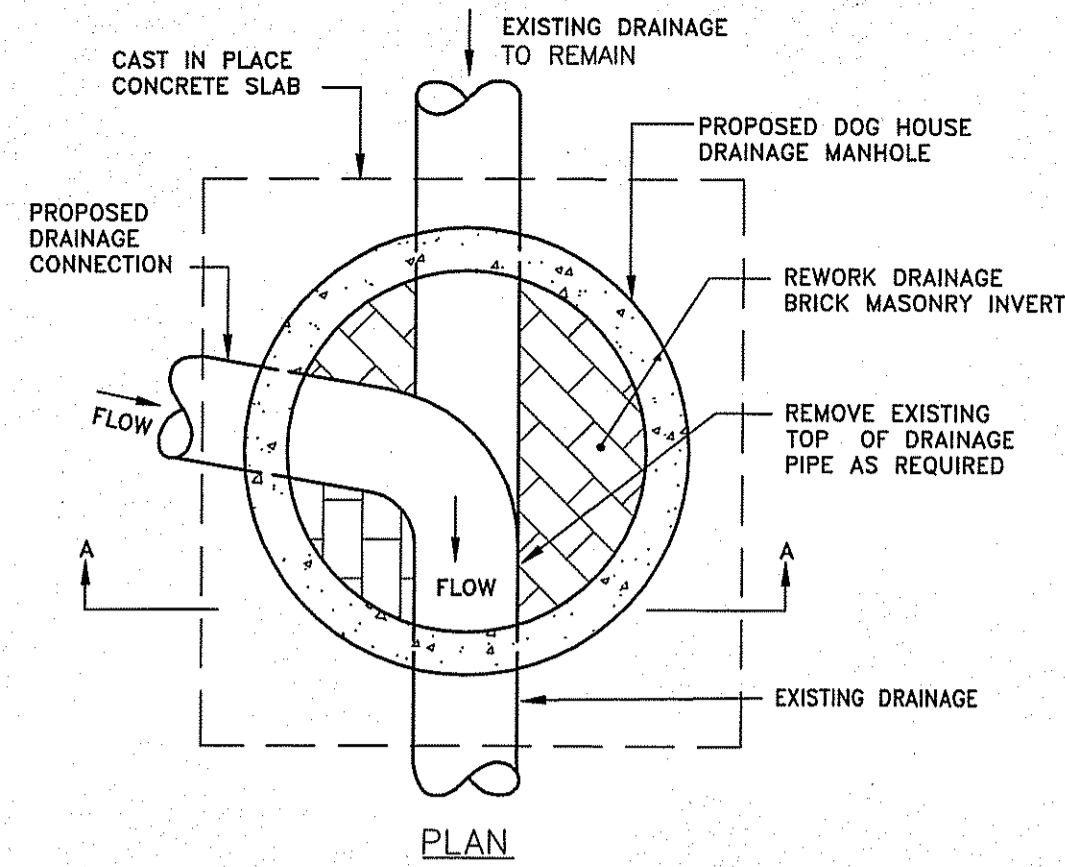
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DRAWN BY:	AWB	
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DATE:	MARCH 27, 2014	
COPYRIGHT:		
SHEET TITLE		

CIVIL DETAILS-3

CD4.3

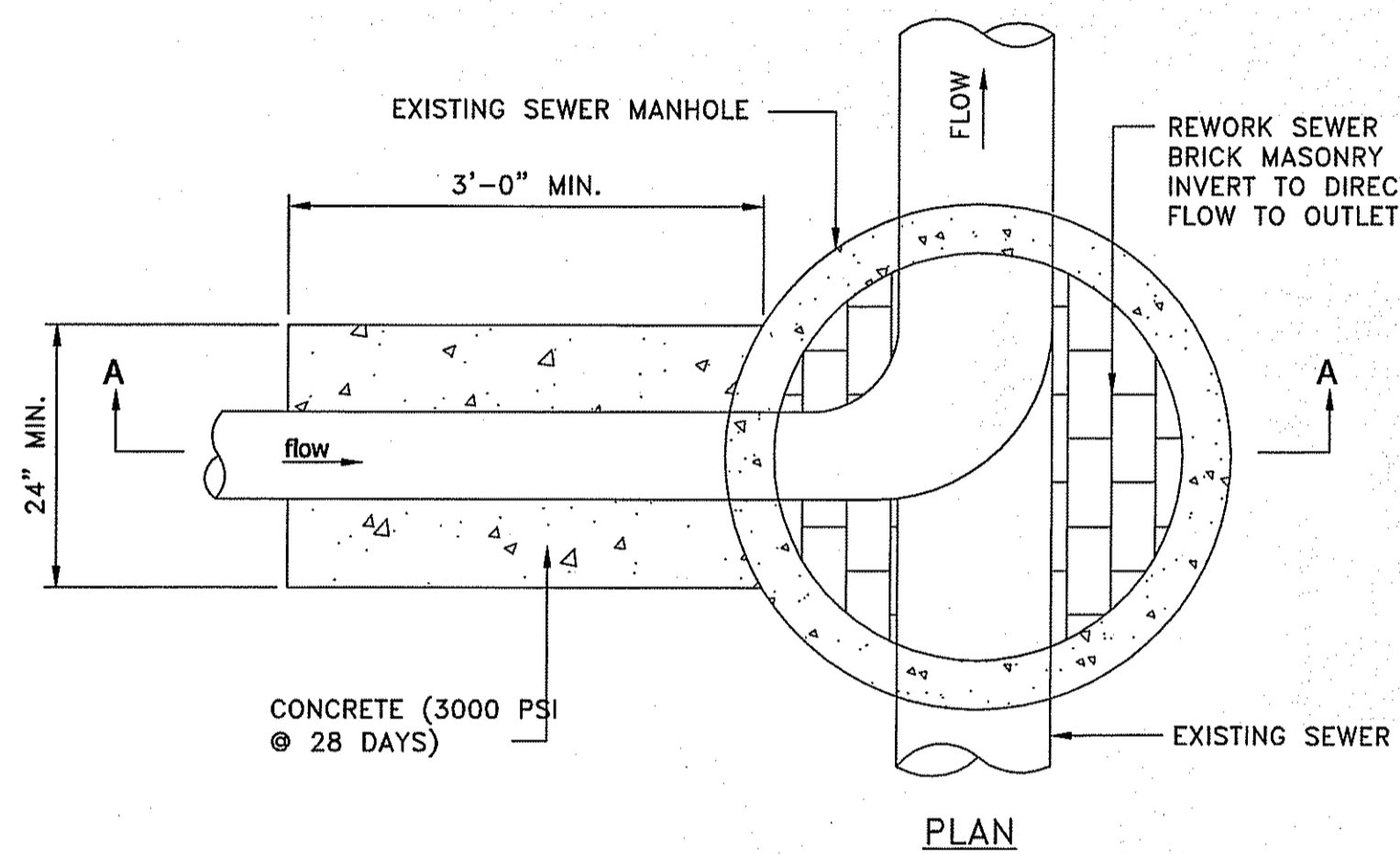


DOG HOUSE MANHOLE BASE
NOT TO SCALE

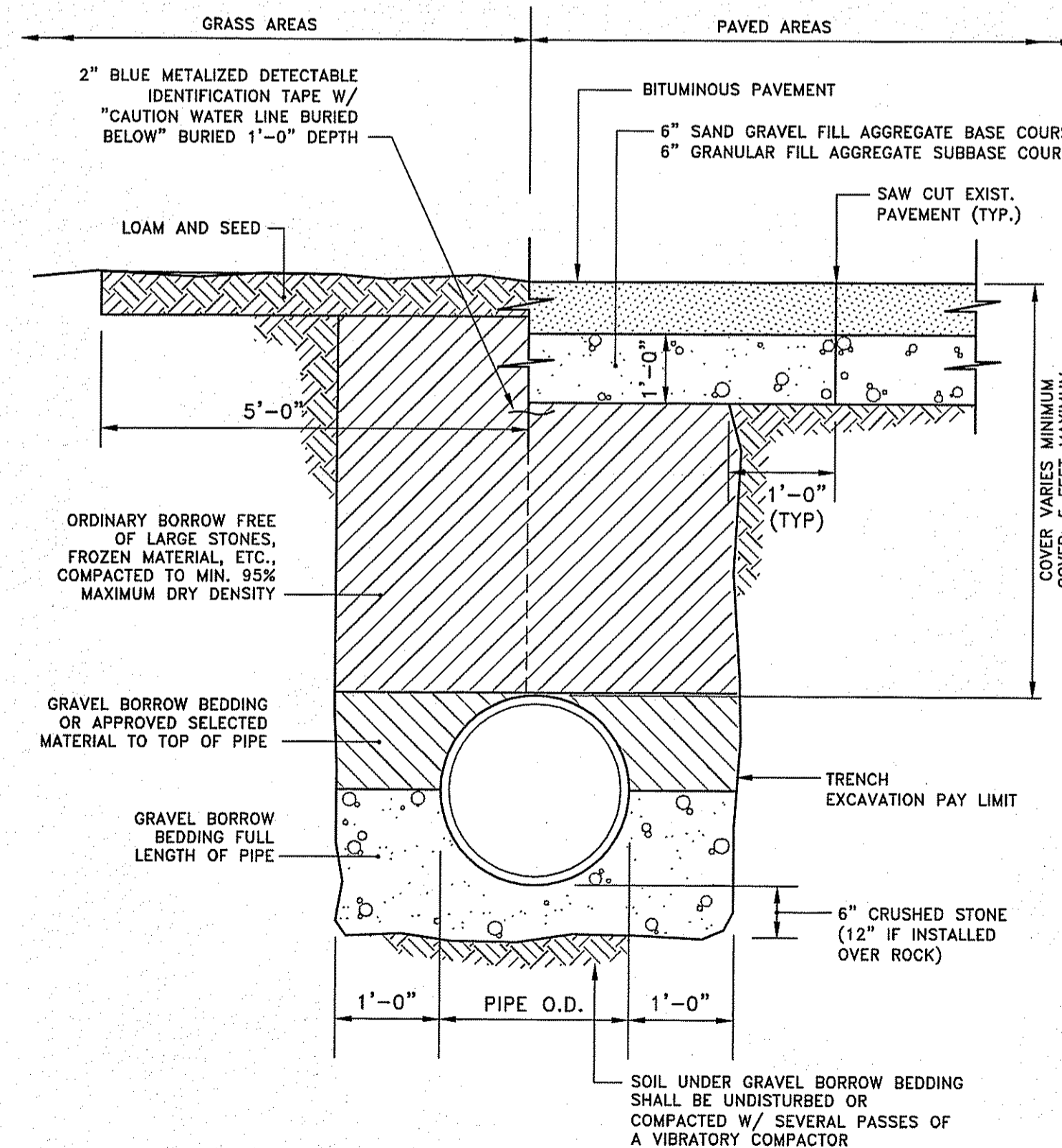


NOTES:

- ALL CONCRETE SHALL BE CL. B (AE) CONCRETE AND COMPLY WITH SECTION M4.12.00 OF THE STANDARD SPECIFICATIONS.
- CONCRETE THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH. IN AREAS WHERE BEARINGS SOILS HAVE BEEN DISTURBED, RESTRAINED JOINTS SHALL BE USED.
- ALL FORCE MAIN BENDS, TEES, MAIN TAPS, AND END CAPS SHALL REQUIRE A CONCRETE THRUST BLOCK.



OUTSIDE DROP MANHOLE DETAIL
NOT TO SCALE



TYPICAL WATER MAIN TRENCH DETAIL
NOT TO SCALE

TEES		HORIZONTAL BENDS				VERTICAL BENDS				ANCHORAGES									
PIPE SIZE-D (DIA.)		PIPE SIZE-D (DIA.)				PIPE SIZE-D (DIA.)				PIPE SIZE-D (DIA.)									
	6"	8"	12"	16"	20"	BEND	6"	8"	12"	16"	20"	BEND	6"	8"	12"	16"	20"		
A	8"	10"	1'-0"	1'-3"	1'-6"	1/8	X	1'-0"	1'-0"	1'-0"	1'-3"	1'-6"	1/8	R	2'-6"	3'-0"	4'-6"	5'-4"	6'-0"
B	8"	10"	1'-2"	1'-4"	1'-6"		Y	1'-0"	1'-0"	1'-0"	1'-3"	1'-6"		S	2'-6"	2'-9"	3'-6"	2'-6"	5'-6"
C	10"	1'-0"	1'-3"	1'-6"	1'-8"		Z	8"	10"	1'-0"	1'-3"	1'-6"		T	3'-0"	4'-0"	4'-6"	7'-0"	9'-6"
E	8"	10"	1'-2"	1'-6"	1'-10"	1/16	X	1'-0"	1'-0"	1'-0"	1'-3"	1'-6"	1/16	R	2'-0"	2'-3"	4'-0"	4'-6"	5'-0"
							Y	1'-0"	1'-0"	1'-0"	1'-3"	1'-6"		S	1'-9"	2'-3"	2'-6"	3'-2"	3'-8"
							Z	8"	10"	1'-2"	1'-4"	1'-6"		T	2'-6"	3'-4"	4'-0"	6'-0"	8'-6"
														R	1'-6"	2'-0"	3'-0"	3'-8"	4'-3"
														S	1'-3"	1'-9"	2'-0"	2'-4"	2'-6"
														T	2'-0"	2'-8"	3'-0"	4'-6"	5'-9"

CONCRETE THRUST BLOCKS FOR WATER AND SANITARY FORCE MAIN

NOT TO SCALE
THRUST BLOCKS FOR SANITARY FORCE MAIN FROM DOSING TANK TO WWTP SHALL NOT BE INCLUDED AS BASE BID AND SHALL BE INCLUDED UNDER ALTERNATE #1.

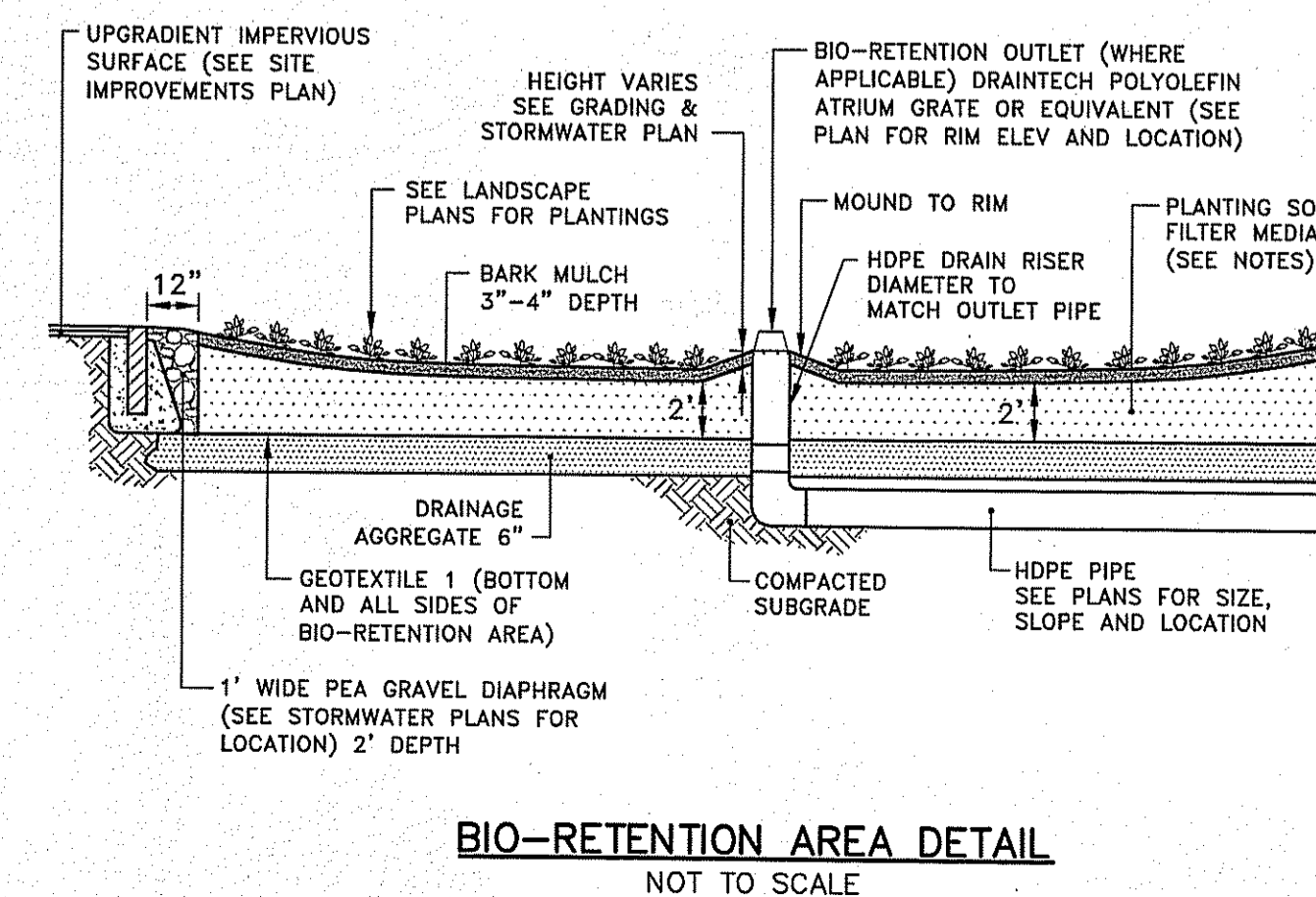
BIO-RETENTION CHART					
BIO-RETENTION AREA	RIM ELEV.	TOP OF MULCH	TOP OF SOIL	BOT. OF SOIL	SHGW*
1	213.60	213.00	212.67	210.67	199.50**
2	201.50	201.00	200.67	198.67	198.40
3	202.30	202.00	201.67	199.67	199.00
4	202.33	202.00	201.67	199.67	199.55**
5	202.33	202.00	201.67	199.67	198.90
6	202.33	202.00	201.67	199.67	198.67
7	202.33	202.00	201.67	199.67	199.50**

* SHGW CALCULATED 4' BELOW EXISTING GROUND SURFACE
** BIO-RETENTION AREAS PROPOSED IN AN AREA OF EXISTING SLOPE >30%. GROUNDWATER CALCULATED USING OBSERVED GROUNDWATER ELEVATION AT TP13-2 AND RIDEM GROUNDWATER ADJUSTMENT FACTOR OF 72 INCHES (1/8/14).

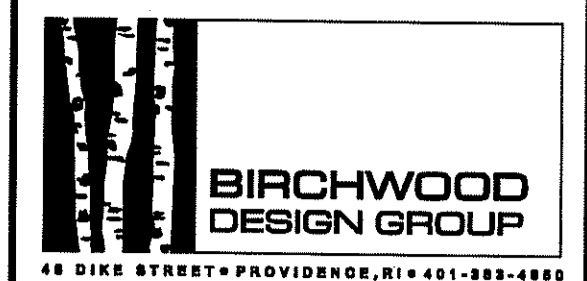
BIO-RETENTION AREA NOTES:

- THE PLANTING SOIL/FILTER MEDIA SHOULD BE A MIXTURE OF SAND, COMPOST, AND SOIL:
 - 85%-88% SAND *
 - 8%-12% SILT *
 - 0%-2% CLAY *
 - 3-5% ORGANIC MATTER/COMPOST *
 - * PERCENTAGES BY VOLUMES
- THE SOIL MIX SHOULD BE UNIFORM, FREE OF STONES, STICKS, STUMPS, ROOTS, LARGER THAN 2 INCHES. CLAY CONTENT SHOULD NOT EXCEED 5%. SOIL PH SHOULD BE BETWEEN 5.5 AND 6.5 AND SHALL MEET ALL OTHER REQUIREMENTS OF SECTION 32.9320
- THE SAND COMPONENT SHOULD BE GRAVELLY SAND THAT MEETS ASTM D 422.

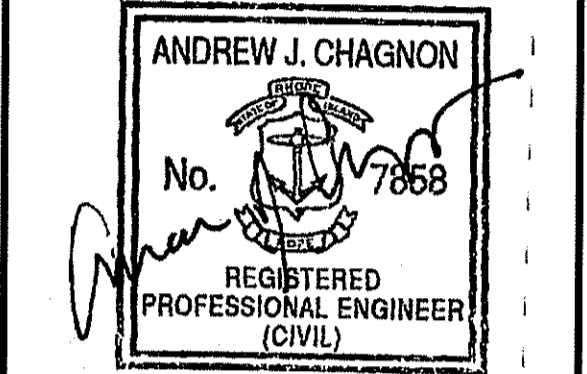
SIEVE SIZE	PERCENT PASSING
2 INCH	100
3/4 INCH 70-100	
1/4 INCH 50-80	No. 40
No. 40	15-40
No. 200	0-3
- THE TOPSOIL COMPONENT SHALL BE A SANDY LOAM, LOAMY SAND OR LOAM TEXTURE.
- THE COMPOST COMPONENT MUST BE PROCESSED FROM YARD WASTE MEETING THE RIDEM RULES AND REGULATIONS FOR AGRICULTURAL COMPOSTING.
- PRIOR TO THE INSTALLATION OF BIO-RETENTION MATERIALS, THE SUBGRADE SHOULD BE SCARIFIED AND MACHINERY CONTACT WITH THE SCARIFIED SUBGRADE SHOULD BE AVOIDED.



BIO-RETENTION AREA DETAIL
NOT TO SCALE



CONSULTANTS



OWNER
JOHNSTON HIGH SCHOOL FIELD RENOVATIONS
345 CHERRY HILL ROAD
JOHNSTON, RI
ASSESSOR'S PLAT 47 LOT 9

AUG 14 2014
Office of Water Resources

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED AUG 19 2014 FILE # 14-0082
NO CHANGES ALLOWED WITHOUT PROJECT APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

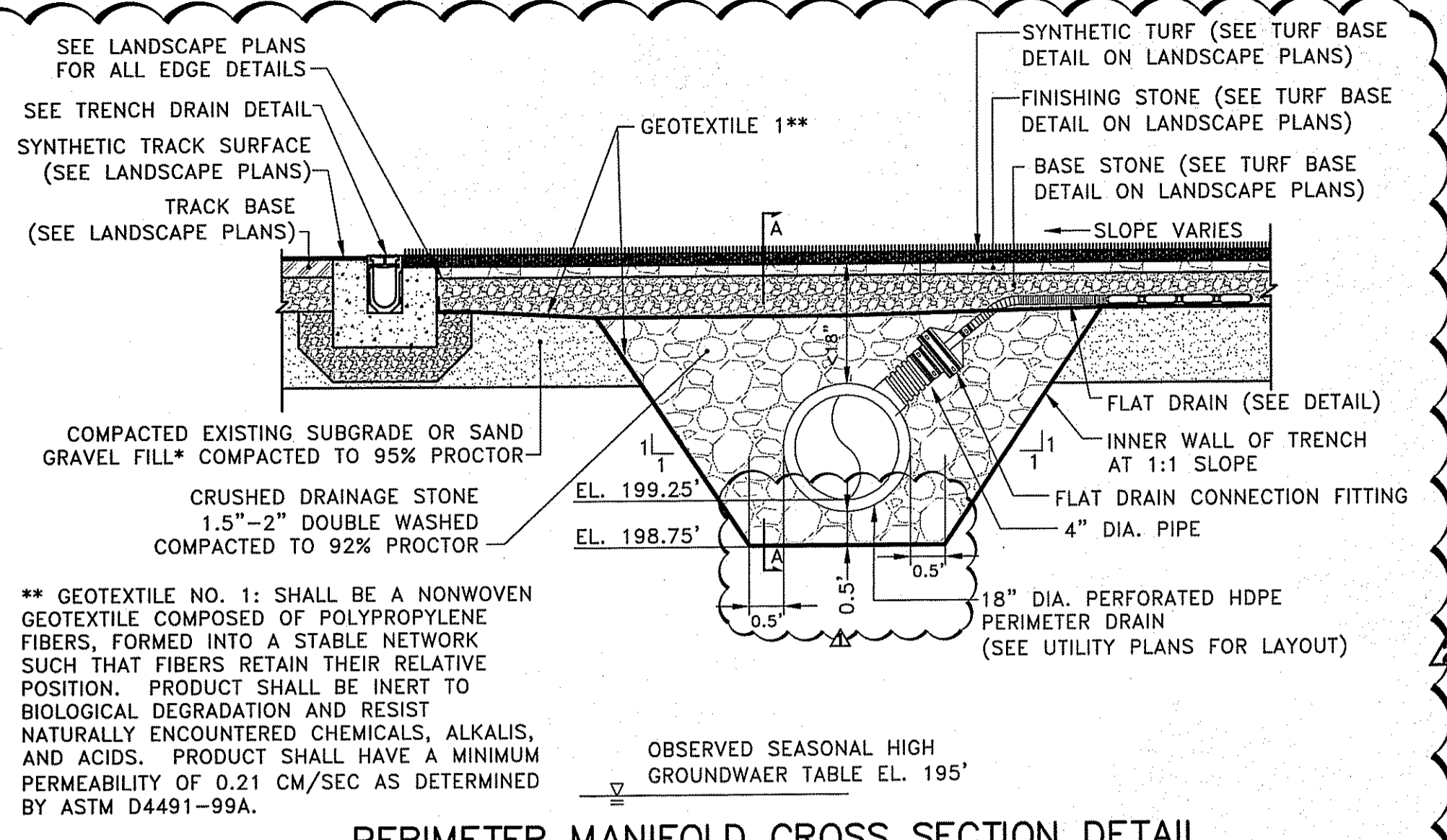
PERMIT SUBMISSION

MARK	DATE	DESCRIPTION	RIDEM COMMENTS
1	04-14-14		

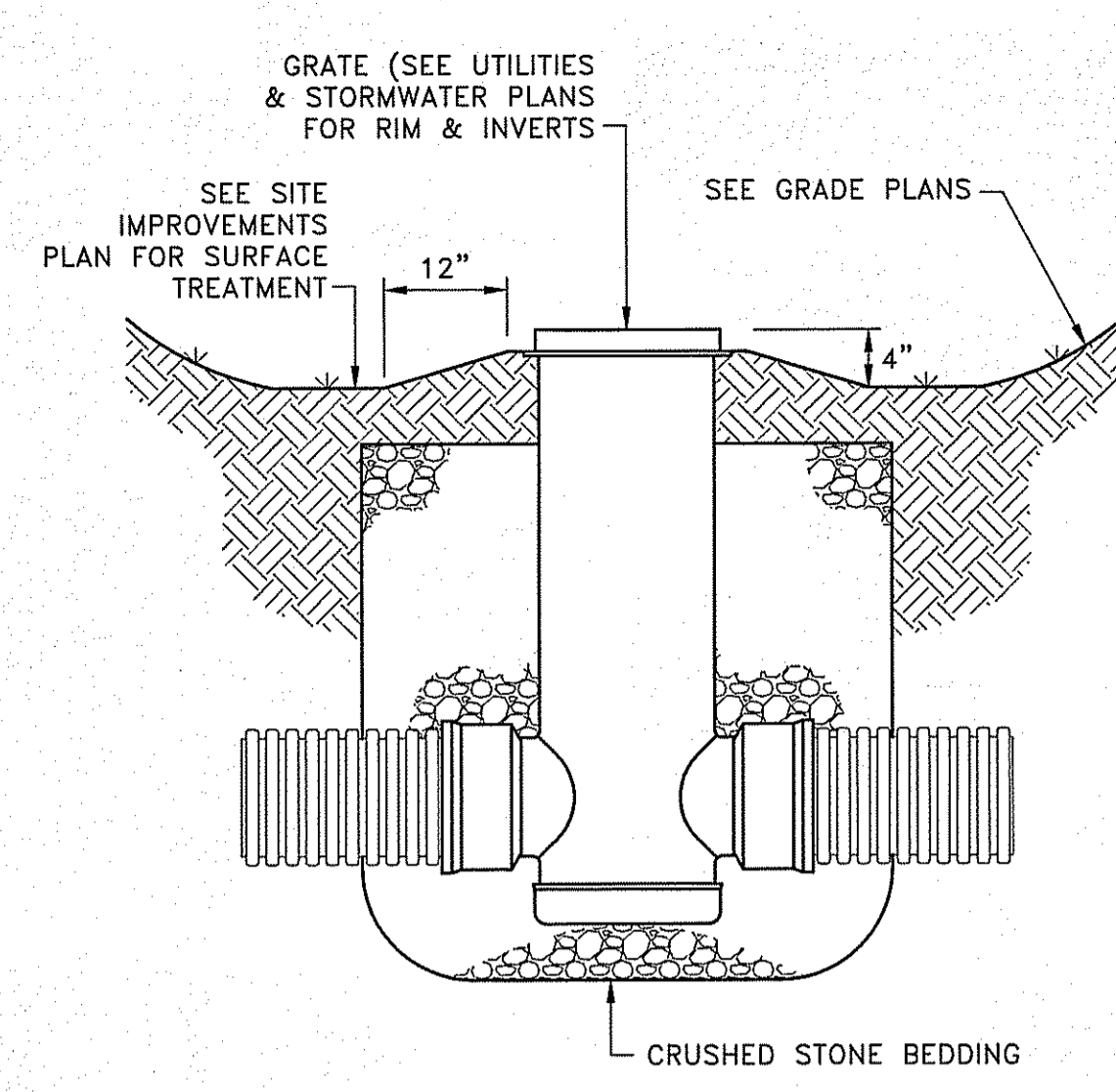
PROJECT NO: 18121.00
SCALE: AS NOTED
DRAWN BY: AWB
CHKD BY: TGP
DATE: MARCH 27, 2014
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SHEET TITLE

CIVIL DETAILS-4

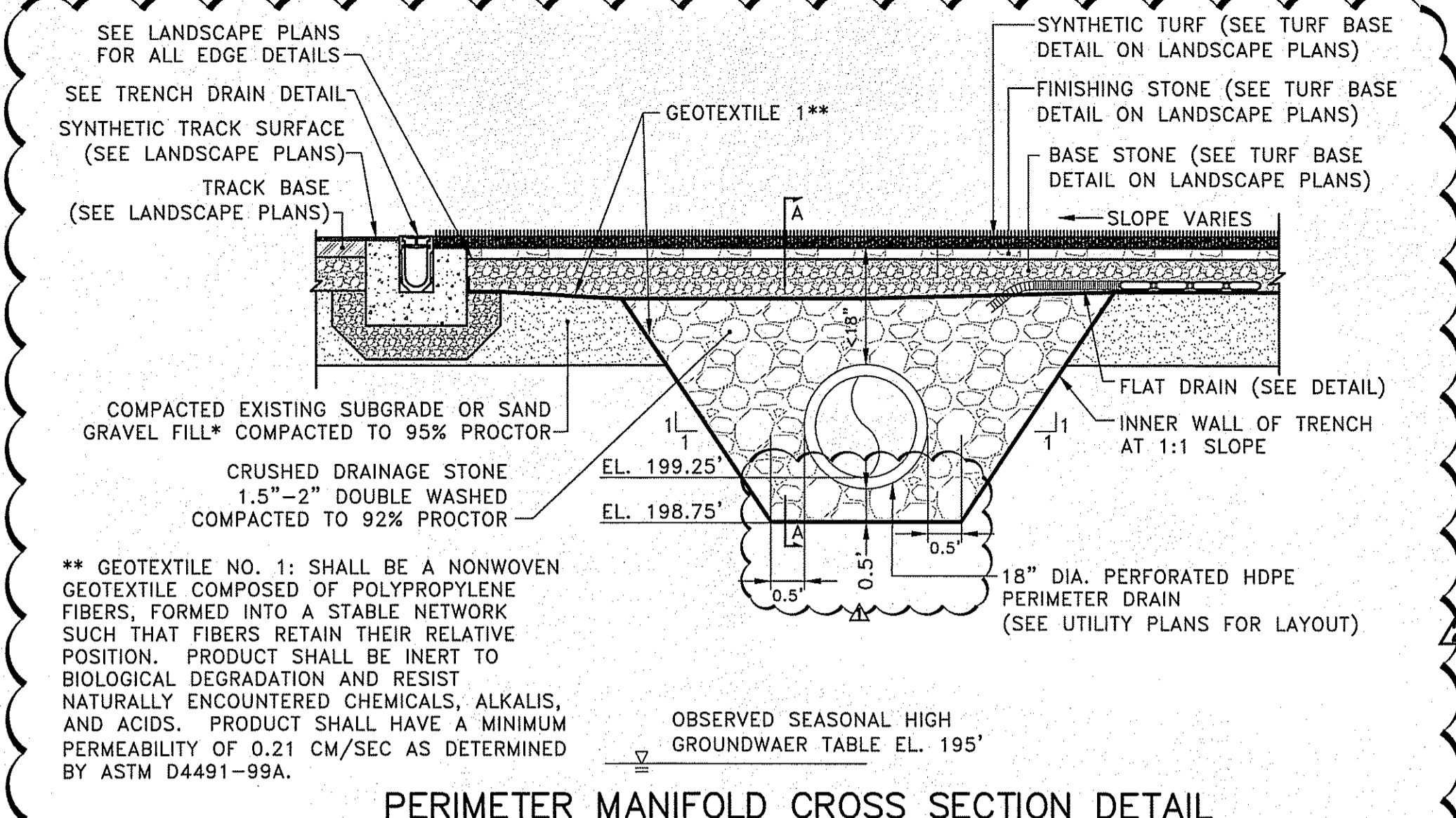
CD4.4



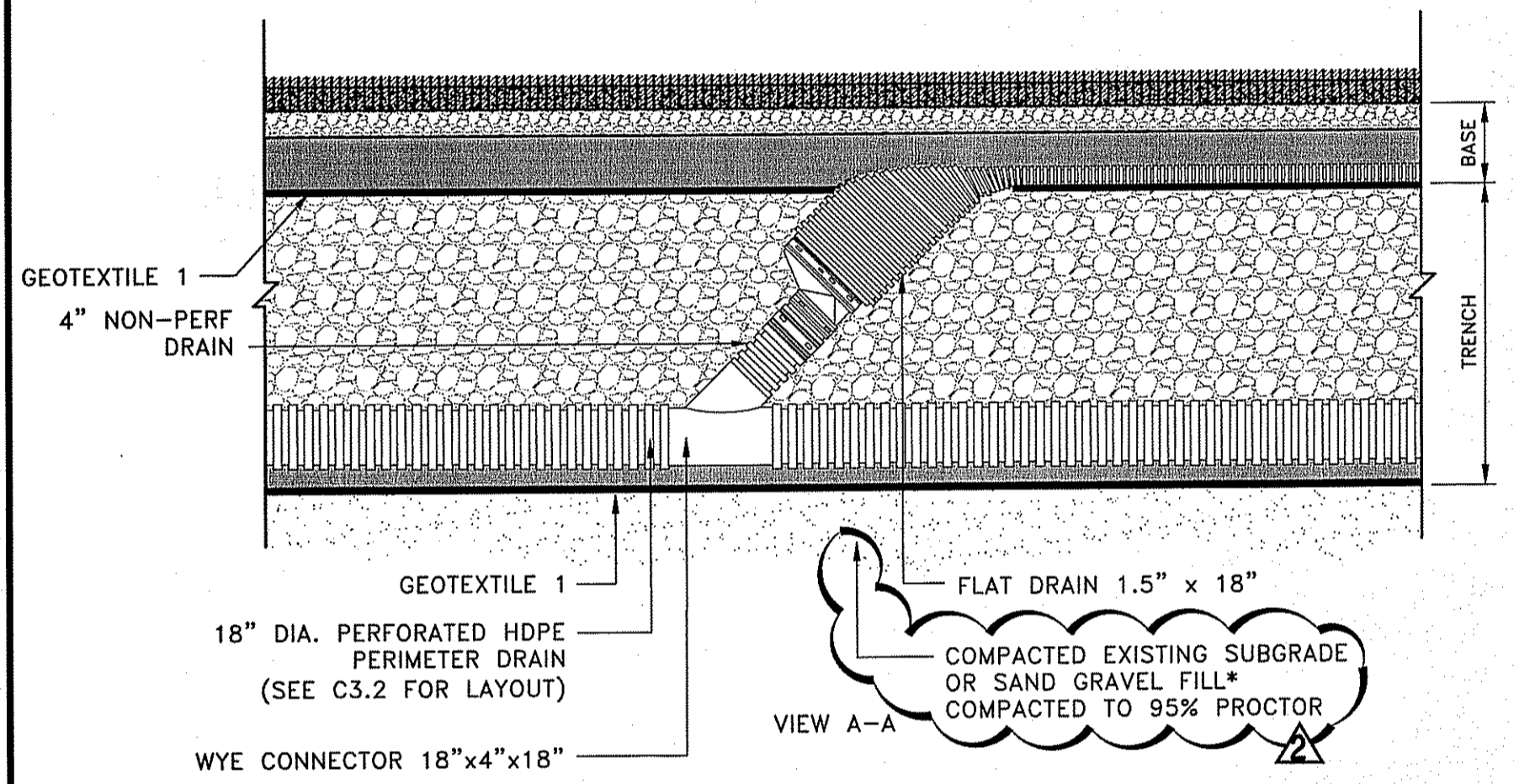
PERIMETER MANIFOLD CROSS SECTION DETAIL
DEPTH FROM TOP OF STONE: $\geq 18"$
SCALE: 1"=2'



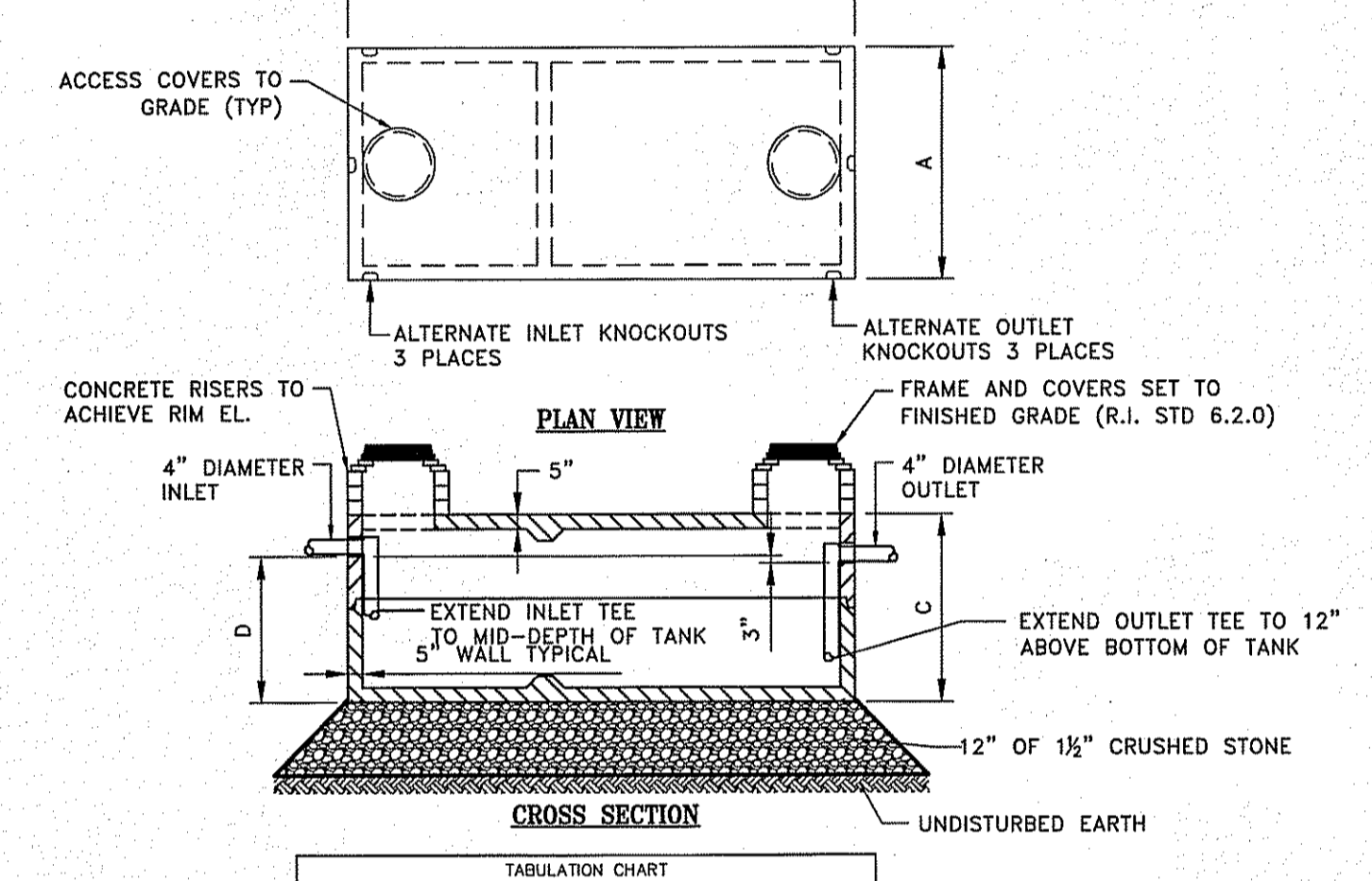
DRAIN BASIN INSTALLATION CROSS SECTION DETAIL
NOT TO SCALE



PERIMETER MANIFOLD CROSS SECTION DETAIL
DEPTH FROM TOP OF STONE: $\leq 18"$
SCALE: 1"=2'



CONNECTION BETWEEN FLAT DRAIN & PERIMETER DRAIN
NOT TO SCALE

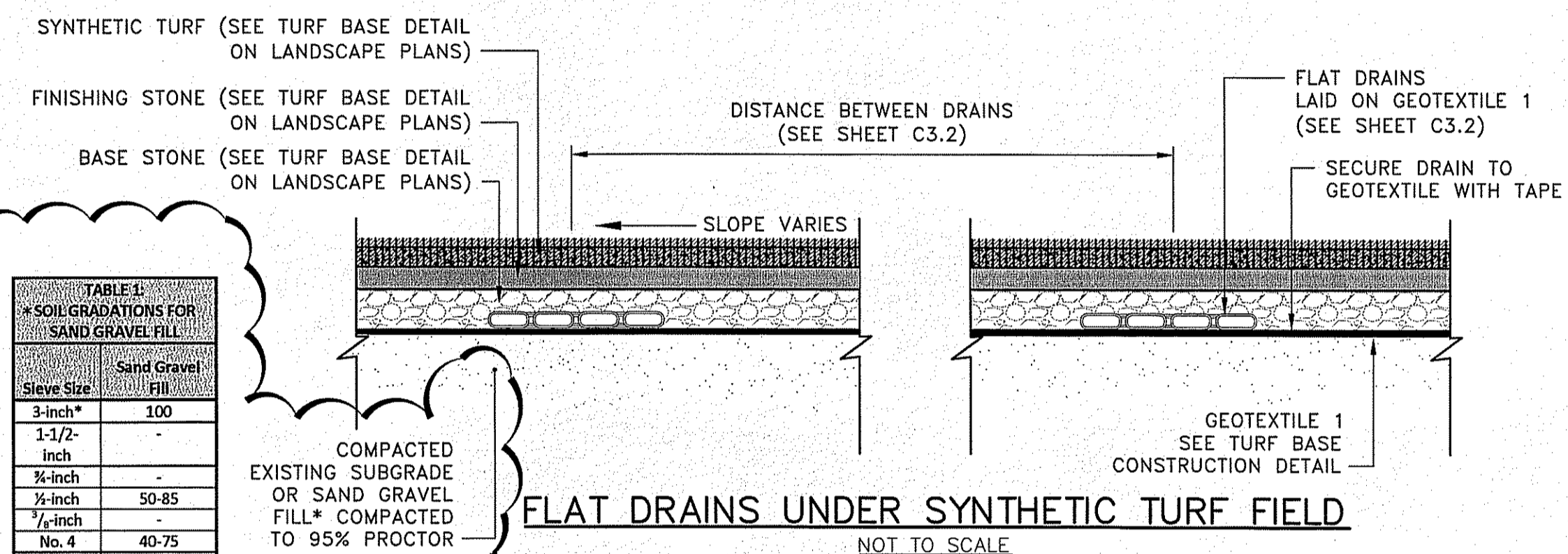


TABULATION CHART

GALLONS	A	B	C	D
2000	6'-6"	12'-0"	5'-10"	4'-8"

- NOTES:
1. CONCRETE - 5,000 PSI MINIMUM STRENGTH @ 28 DAYS
 2. EACH TANK COVER SHALL BE AFFIXED WITH A PRINTED LABEL OF NON-CORROSIVE MATERIAL INDICATING THAT ENTRY INTO THE TANK COULD BE FATAL
 3. JOINTS SHALL BE SEALED WITH BUTYL RUBBER SEALANT
 4. EARTH COVER - 0 TO 4 FEET
 5. TANK MANUFACTURED BY JOLLEY PRECAST INC. OR APPROVED EQUIVALENT
 6. PROVIDE CONCRETE RISERS AND BRICK ADJUSTMENT COURSE TO ACHIEVE RIM ELEVATION SHOWN ON UTILITY PLANS IN ACCORDANCE WITH SPECIFICATION 33 05 13

2000 GALLON SINGLE COMPARTMENT GREASE TANK
NOT TO SCALE

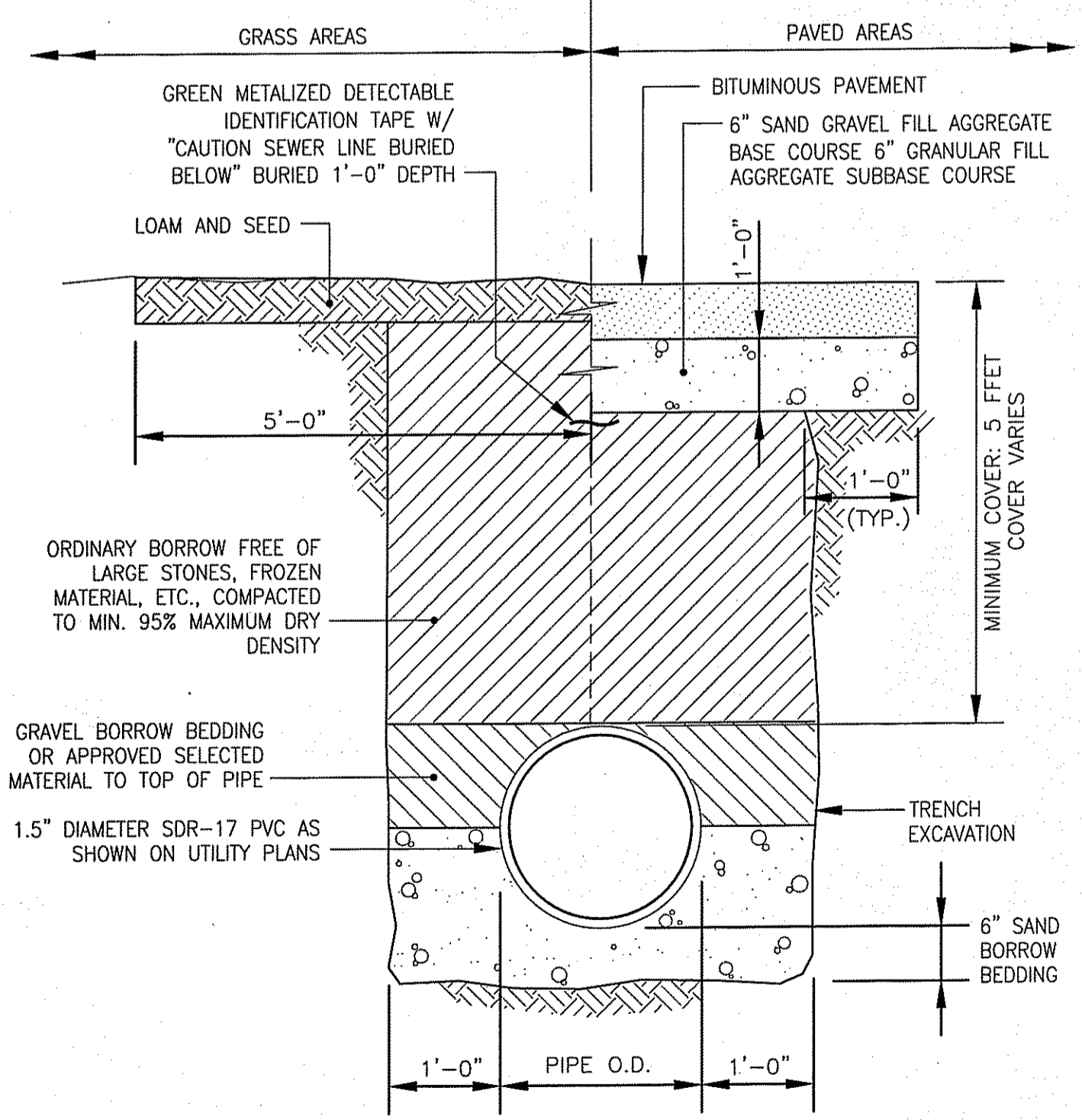


FLAT DRAINS UNDER SYNTHETIC TURF FIELD
NOT TO SCALE

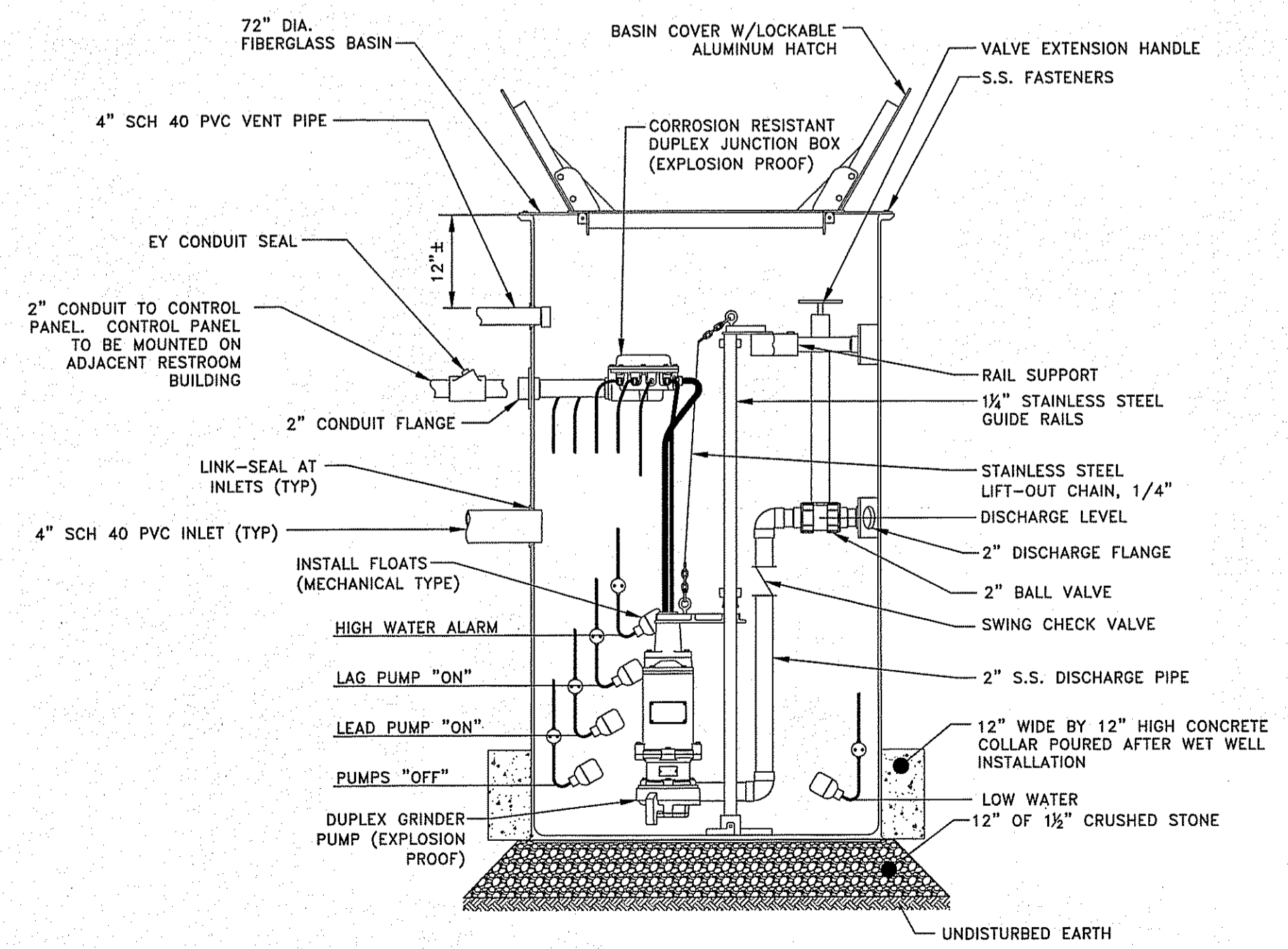
TABLE 1
* SOIL GRADATIONS FOR SAND GRAVEL FILL

sieve size	sand gravel fill
3-inch*	100
1-1/2-inch	-
3/4-inch	-
1/2-inch	50-85
3/8-inch	-
No. 4	40-75
No. 10	30-60
No. 40	10-35
No. 100	5-20**
No. 200	0-8

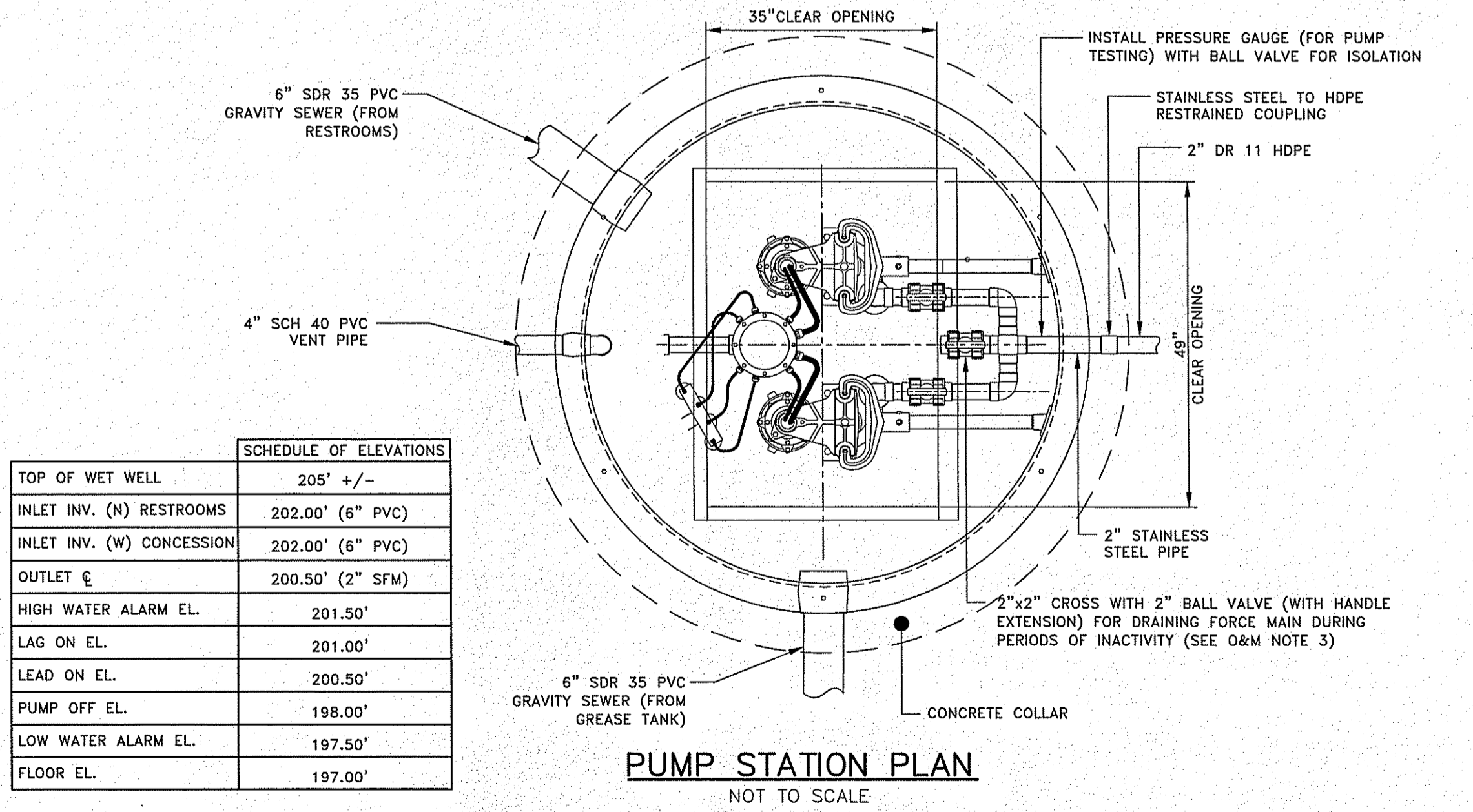
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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DATED AUG 19 2014 FILE # 14-0032
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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Martin B. W...



TYPICAL ONSITE SEWER FORCE MAIN TRENCH
NOT TO SCALE



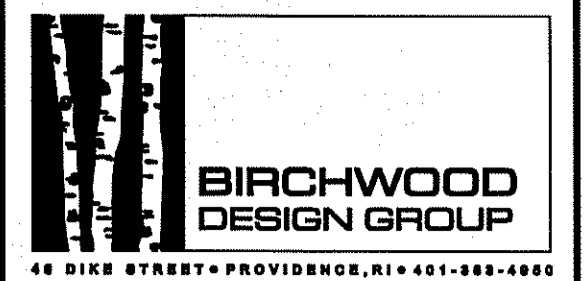
PUMP STATION PROFILE
NOT TO SCALE



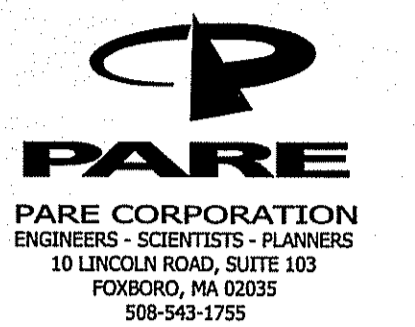
SCHEDULE OF ELEVATIONS

TOP OF WET WELL	205' +/-
INLET INV. (N) RESTROOMS	202.00' (6" PVC)
INLET INV. (W) CONCESSION	202.00' (6" PVC)
OUTLET \bar{e}	200.50' (2" SFM)
HIGH WATER ALARM EL.	201.50'
LAG ON EL.	201.00'
LEAD ON EL.	200.50'
PUMP OFF EL.	198.00'
LOW WATER ALARM EL.	197.50'
FLOOR EL.	197.00'

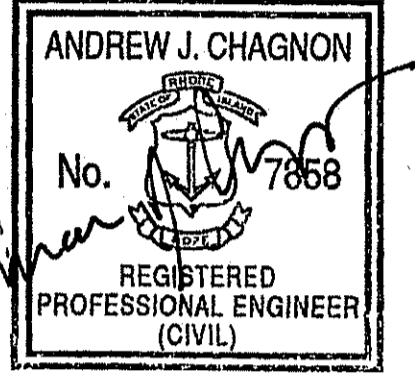
ANY MANUFACTURER'S NAMES AND/OR MODEL NUMBERS IDENTIFIED HEREIN ARE INTENDED TO ASSIST IN ESTABLISHING A GENERAL LEVEL OF QUALITY, CONFIGURATION, FUNCTIONALITY, AND APPEARANCE REQUIRED. THIS IS NOT A PROPRIETARY SPECIFICATION AND IT SHOULD BE NOTED THAT "OR APPROVED EQUIVALENT" APPLIES TO ALL PRODUCTS DENOTED HEREIN. IT IS UNDERSTOOD THAT ALL MANUFACTURERS WILL HAVE MINOR VARIATIONS IN CONFIGURATION, APPEARANCE, AND PRODUCT SPECIFICATION TO ENCOURAGE OPEN AND COMPETITIVE INVOLVEMENT FROM MULTIPLE MANUFACTURERS THAT ARE ABLE TO SUPPLY SIMILAR PRODUCTS.



CONSULTANTS



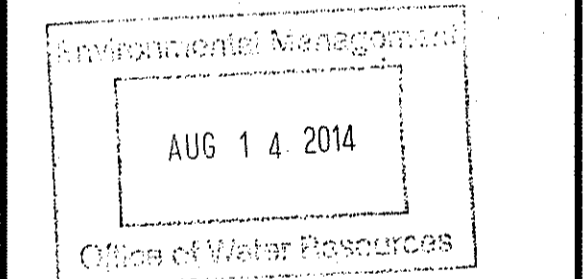
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
10 LINCOLN ROAD, SUITE 103
FOXBORO, MA 02035
508-543-1755



ANDREW J. CHAGNON
No. 7868
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

OWNER

JOHNSTON HIGH SCHOOL FIELD RENOVATIONS
345 CHERRY HILL ROAD
JOHNSTON, RI
ASSESSOR'S PLAT 47 LOT 9



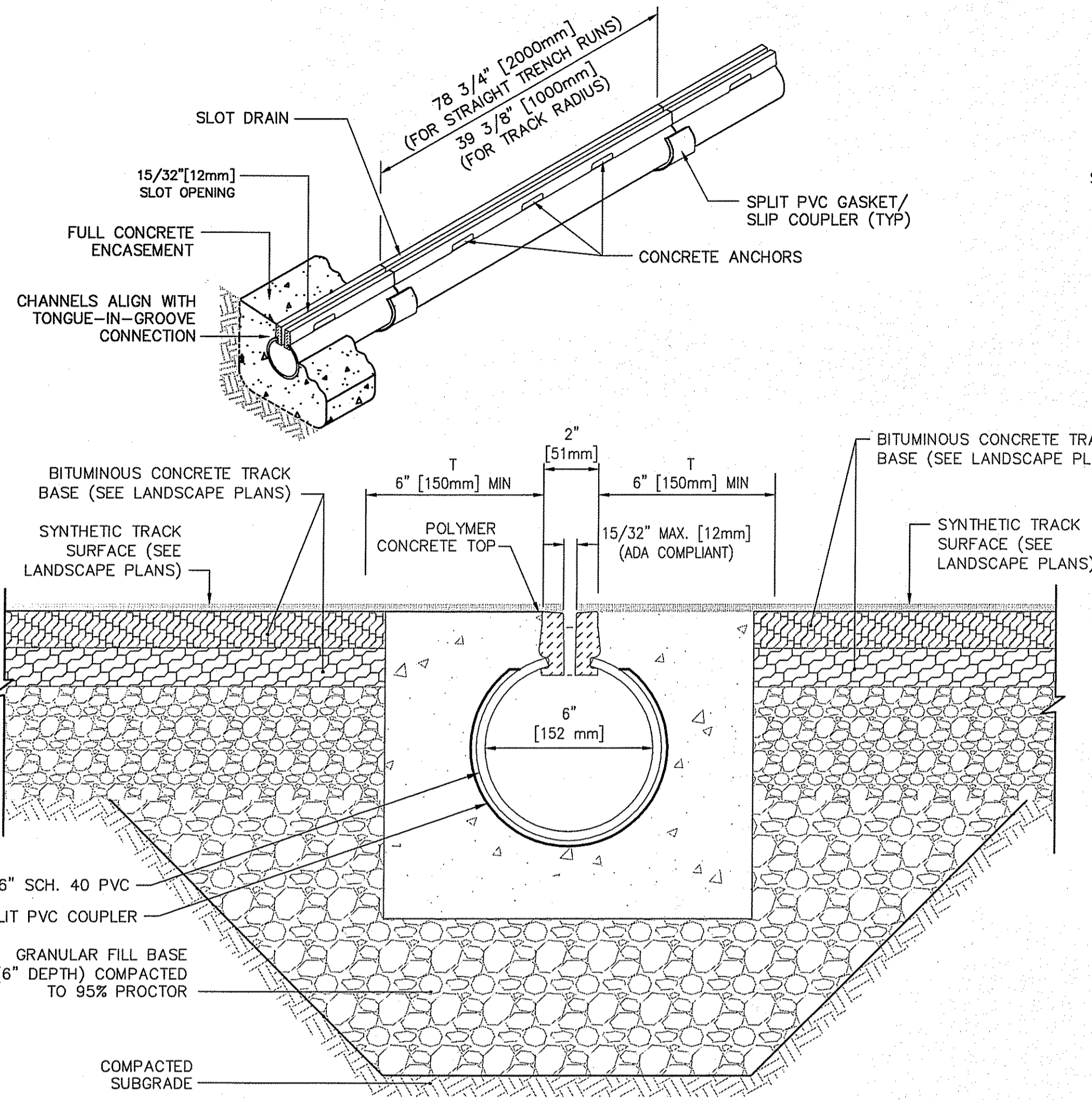
PERMIT SUBMISSION

MARK	DATE	DESCRIPTION
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1	04-14-14	RIDEM COMMENTS

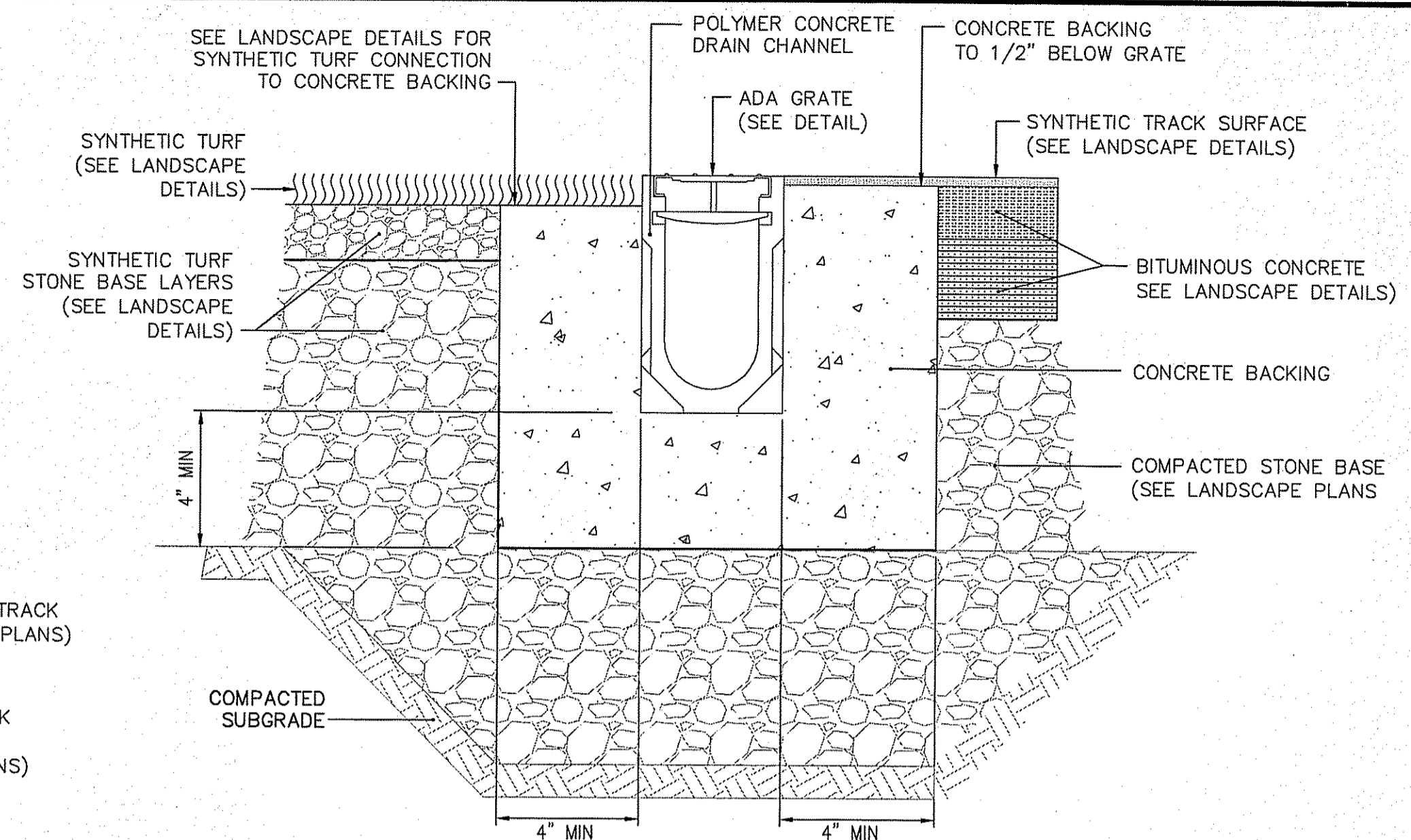
PROJECT NO: 13121.00
SCALE: AS NOTED
DRAWN BY: AWB
CHKD BY: TGP
DATE: MARCH 27, 2014
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CIVIL DETAILS-5

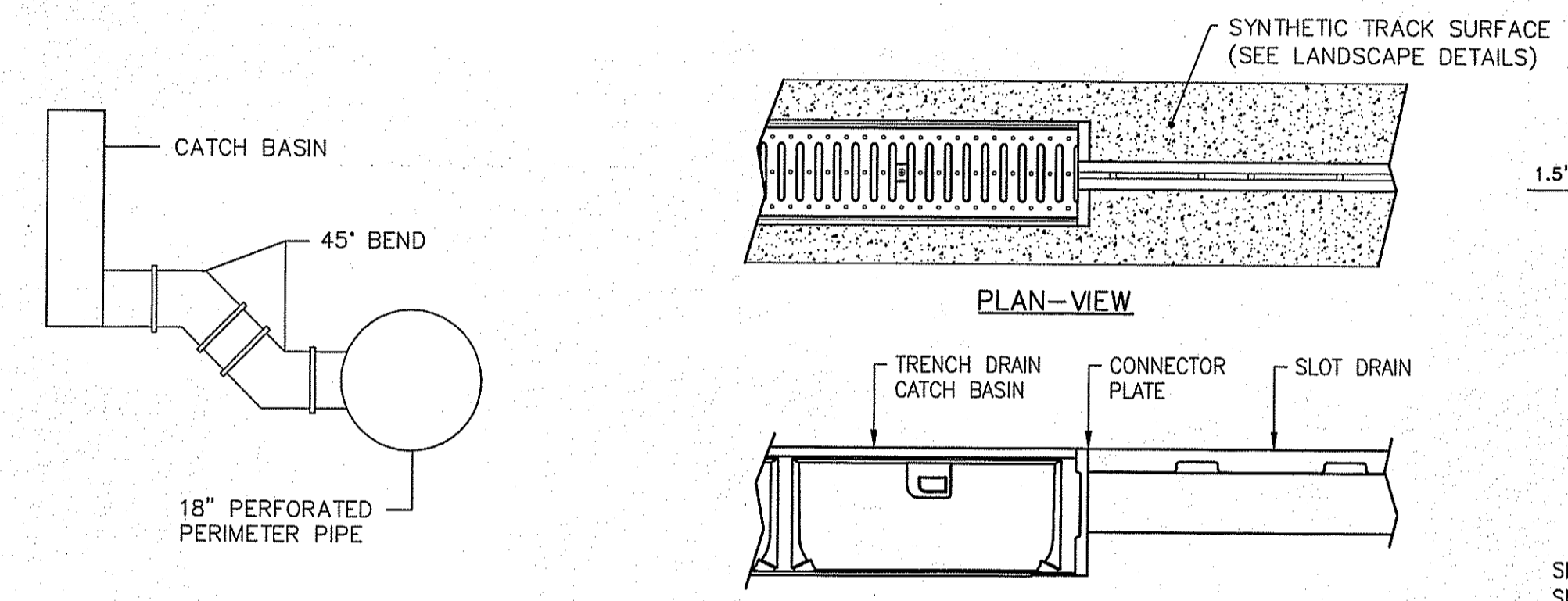
CD4.5



ATHLETIC FIELD SLOT DRAIN INSTALLATION
NOT TO SCALE

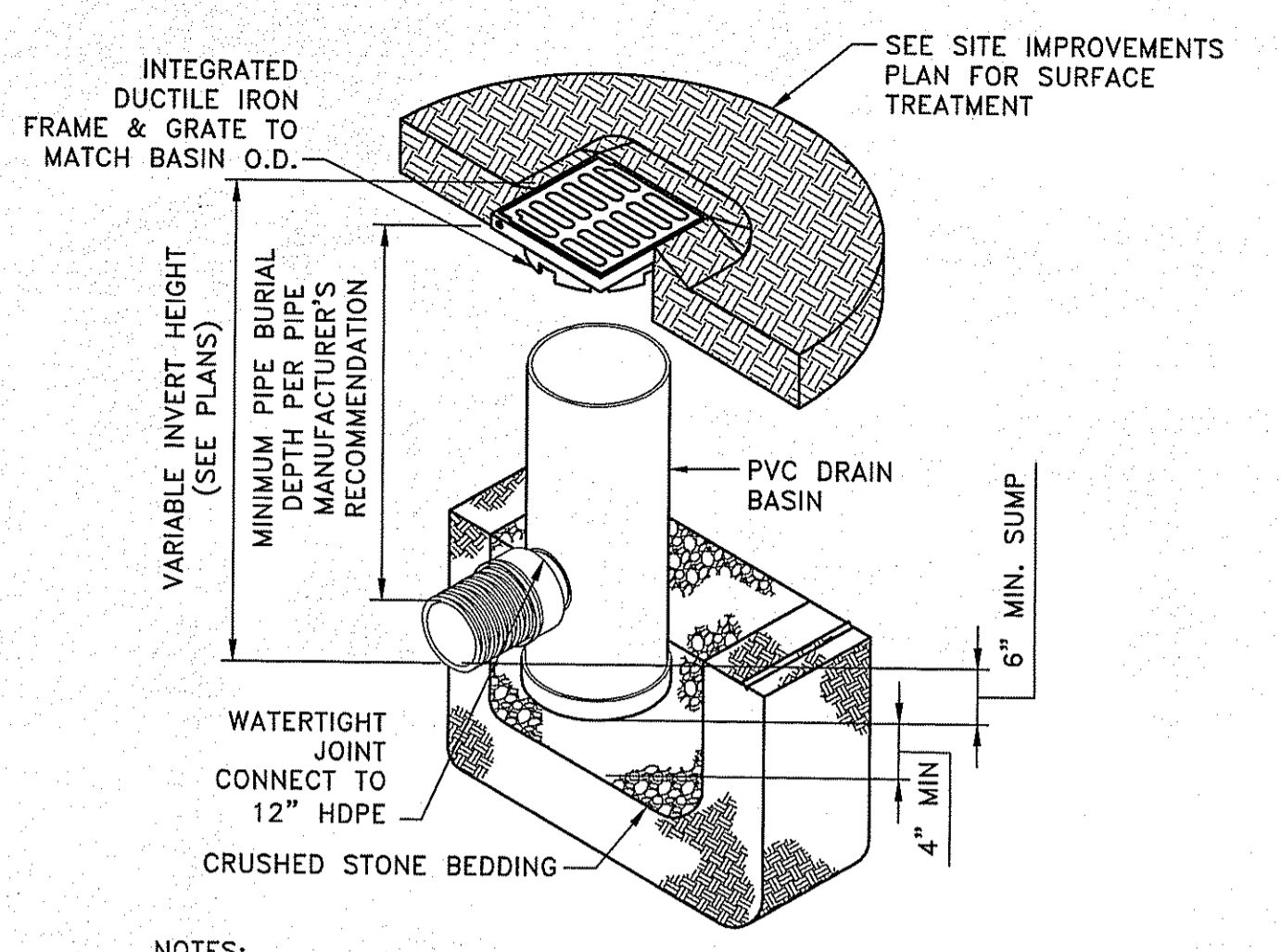


ATHLETIC FIELD TRENCH DRAIN INSTALLATION
NOT TO SCALE



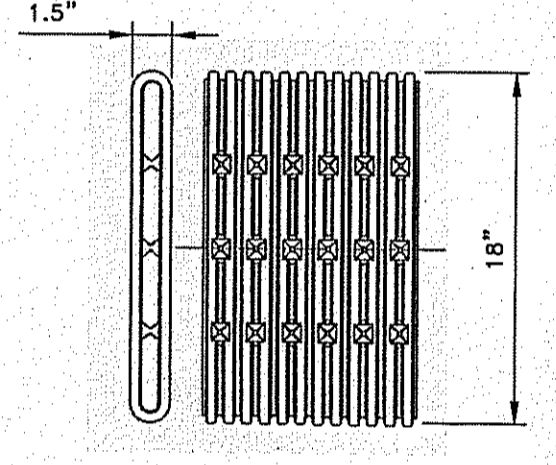
ATHLETIC FIELD TRENCH DRAIN CONNECTION TO PERIMETER DRAIN
NOT TO SCALE

TRENCH DRAIN TO SLOT DRAIN CONNECTION DETAIL
NOT TO SCALE



- NOTES:**
- GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05 AND ADA COMPLIANT
 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE.

12" AREA DRAIN BASIN DETAIL
NOT TO SCALE

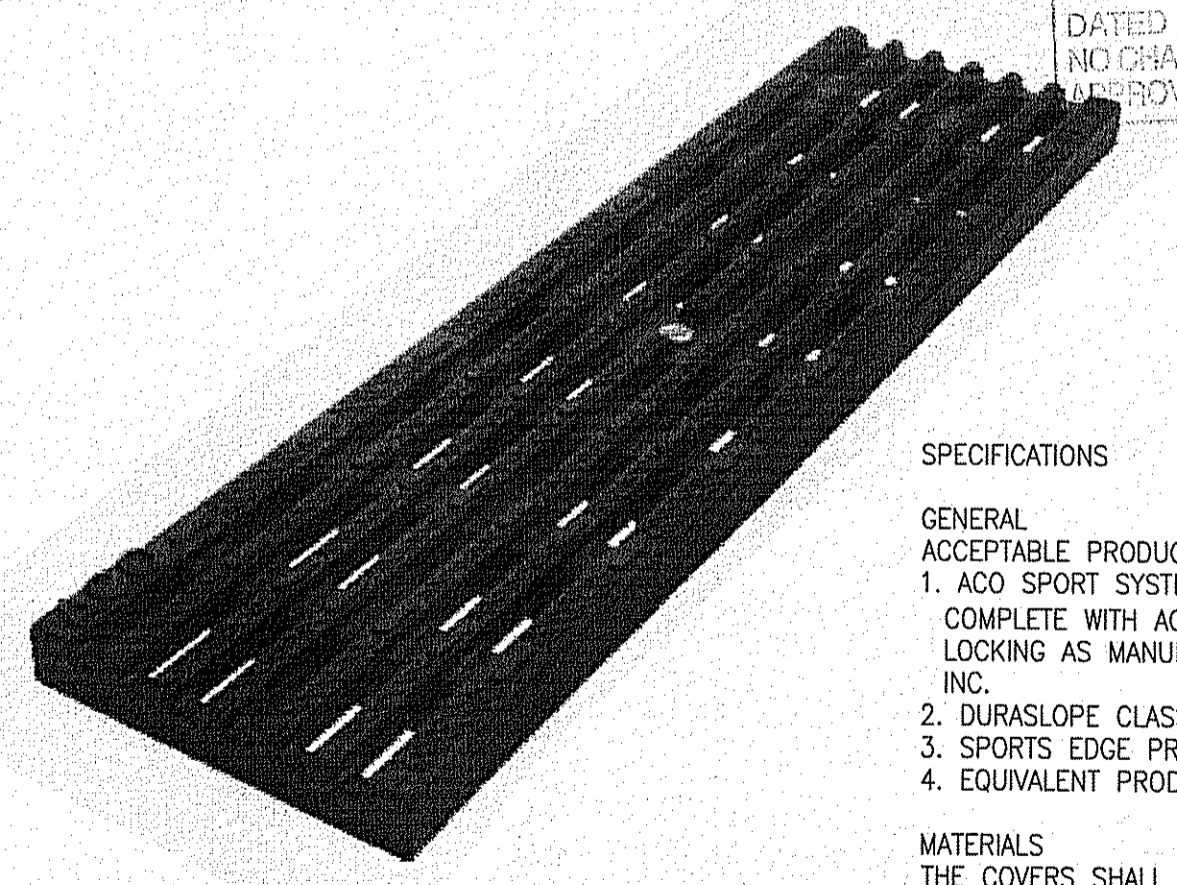


SLOT LENGTH (AVG), IN. = 1.125
SLOT WIDTH (AVG), IN. = 0.125
WATER INLET AREA (APPROX), IN²/FT = 20

Fabric Properties	Test Method	Minimum Average Roll Values
Grab Tensile Strength (lbs.) (weakest principle direction)	ASTM D4632	120
Grab Elongation (%) (weakest principle direction)	ASTM D4633	60
Trapezoidal Tear (lbs.) (weakest principle direction)	ASTM D4533	40
Puncture (lbs.)	ASTM D3786	30
Permittivity (sec ⁻¹)	ASTM D4491	0.7
AOS (U.S. Sieve Size)	ASTM D4761	60
U.V. Resistance	ASTM D4355	70

- NOTES:**
- DRAIN SHALL HAVE ANNULAR INTERIOR AND EXTERIOR CORRUGATIONS AND SHALL MEET ASTM D7001.
 - OUTSIDE DIMENSIONS SHALL BE 1.5" THICK BY 18" WIDE. SHALL HAVE INTERNAL BRACING ADJOINING EACH LONG WALL TO PREVENT CRUSHING UNDER TYPICAL LOADING. SHALL BE MADE WITH GEOTEXTILE WRAP.
 - ALL PIPE AND FITTINGS SHALL BE MADE OF POLYETHYLENE WITH A MINIMUM CELL CLASSIFICATION OF 424420C AS DEFINED AND DESCRIBED IN ASTM D3350.

FLAT DRAIN DETAIL
NOT TO SCALE



- ADA GRATE**
- PRODUCT FEATURES**
- CERTIFIED TO DIN 19580 LOAD CLASS A - 3,500 LBS - 70 PSI
 - USES "QUICKLOK" BOLTLESS LOCKING SYSTEM
 - MANUFACTURED FROM DURABLE, UV STABLE POLYPROPYLENE
 - COMPLIES WITH ADA - AMERICAN DISABILITIES ACT OF 1990 SECTION 4.5.4
 - RAISED ANTI-SLIP SURFACE DETAIL

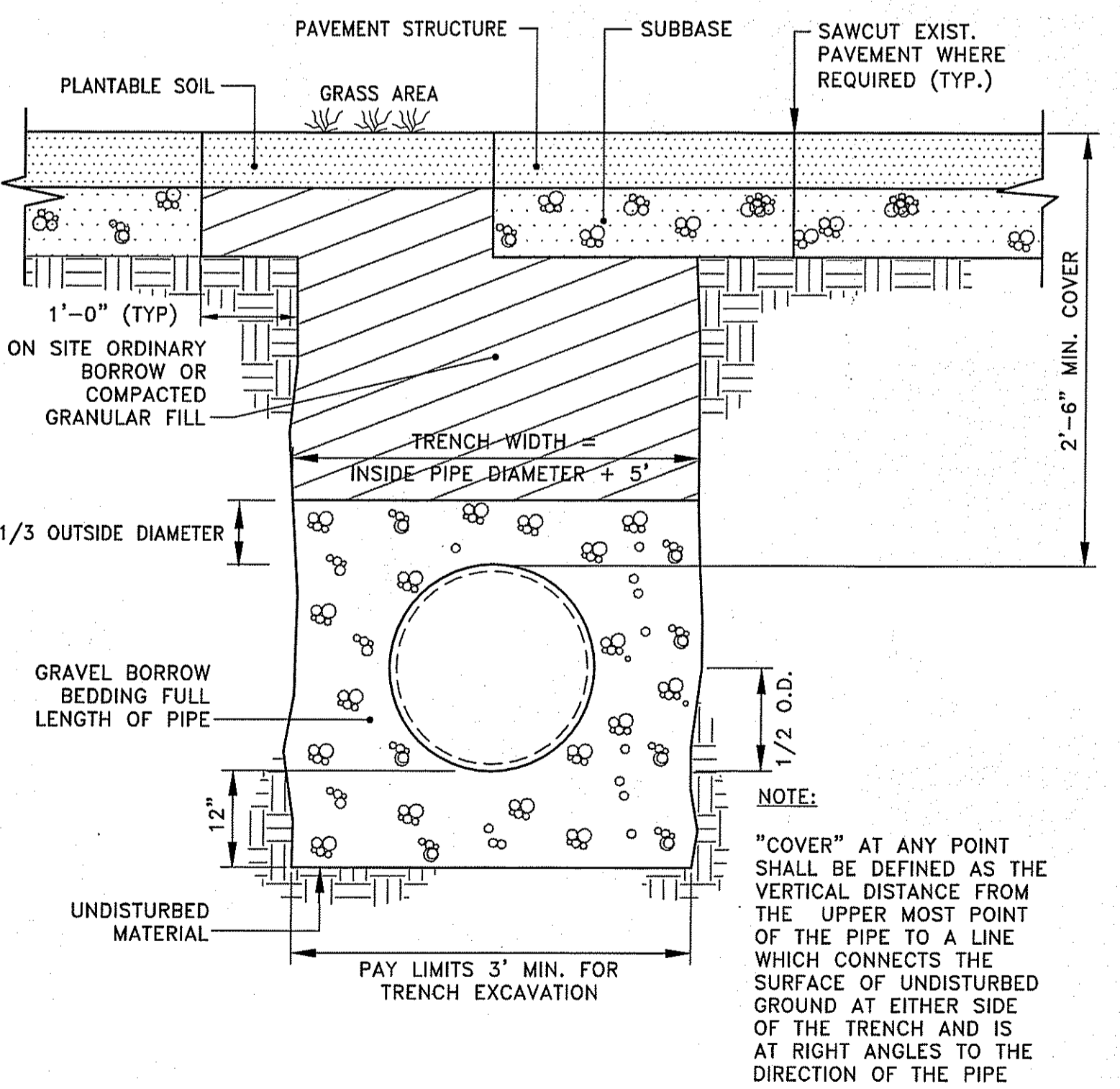
- SPECIFICATIONS**
- GENERAL ACCEPTABLE PRODUCTS:**
- ACO SPORT SYSTEM 4000 OR SYSTEM 6100 CHANNELS COMPLETE WITH ACO ADA PLASTIC GRATE WITH "QUICKLOK" LOCKING AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC.
 - DURASLOPE CLASS B BY NDS
 - SPORTS EDGE PRO CHANNEL DRAIN SYSTEM
 - EQUIVALENT PRODUCT
- MATERIALS**
- THE COVERS SHALL BE MANUFACTURED FROM POLYPROPYLENE AND HAVE MINIMUM PROPERTIES AS FOLLOWS:
- "INDEPENDENTLY CERTIFIED TO MEET LOAD CLASS A TO DIN 19580 - 3,500 LBS - 70 PSI
 - "UV STABLE POLYPROPYLENE
 - "INTAKE AREA OF 28.0 INCHES² (180 CM²) PER HALF METER OF GRATE

THE OVERALL WIDTH OF 4.84" (123MM) AND OVERALL LENGTH OF 19.69" (500MM), SLOTS MEASURE 0.34" (9MM) BY 1.74" (44MM).

INSTALLATION

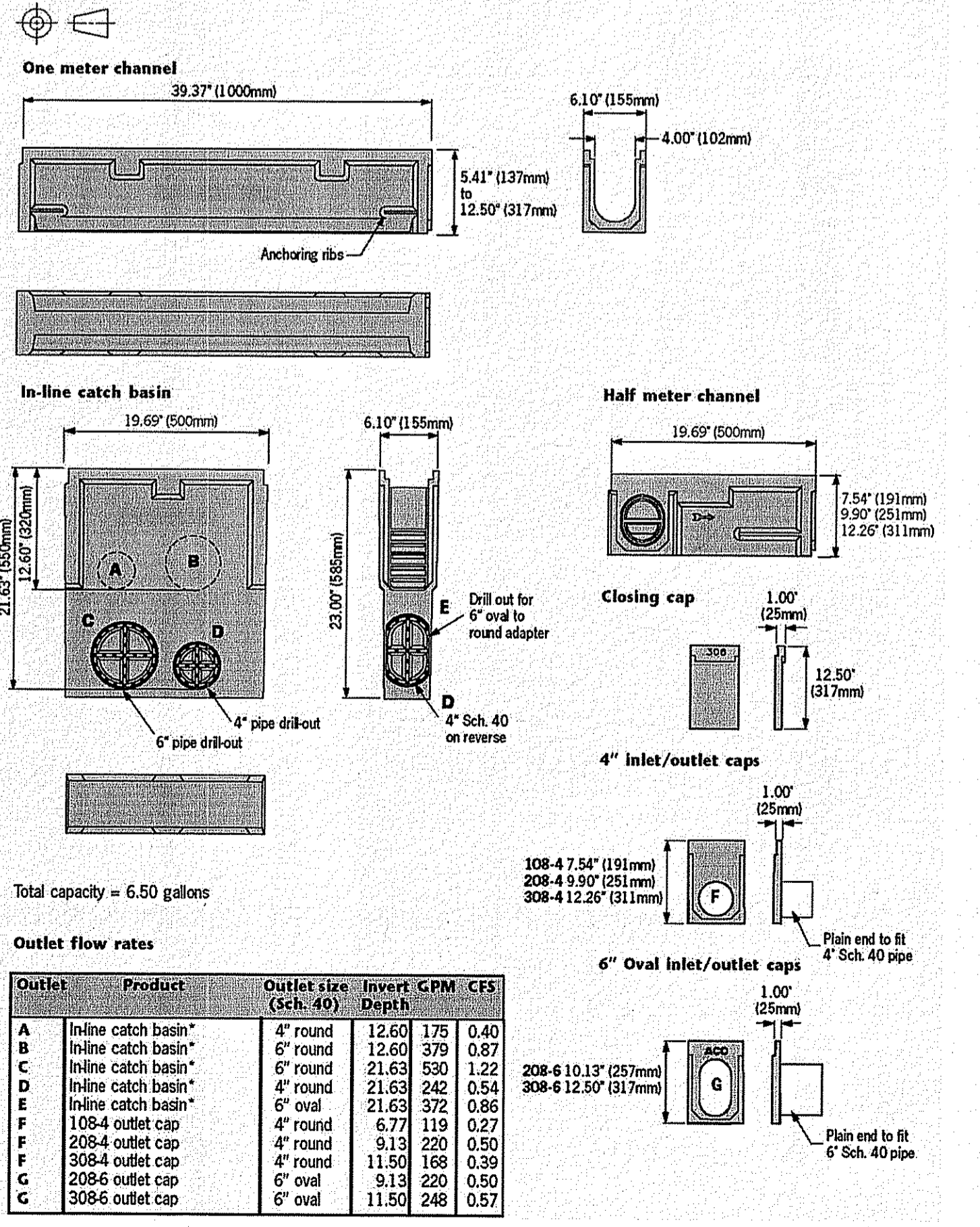
THE TRENCH DRAIN SYSTEM AND GRATES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS.

ATHLETIC FIELD TRENCH DRAIN GRATE
NOT TO SCALE



TYPICAL TRENCH FOR DRAINAGE INSTALLATION
NOT TO SCALE

Open channel trench drain system

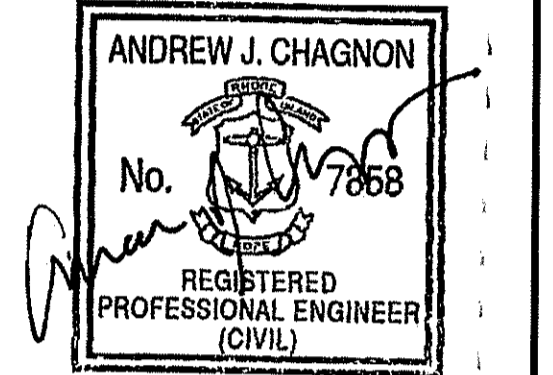
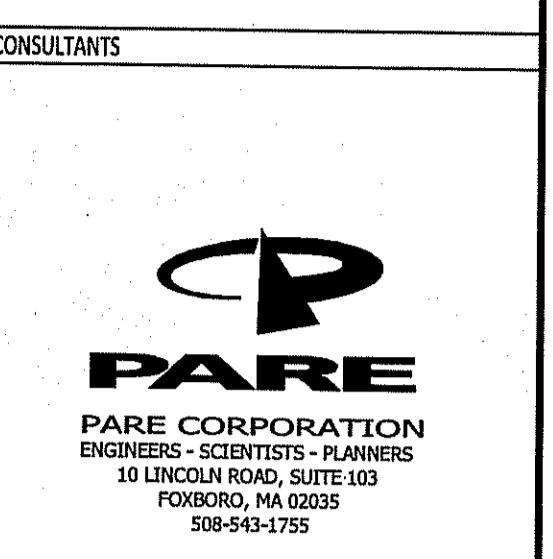


Outlet flow rates

Outlet	Product	Outlet size (Sch. 40)	Invert Depth	GPM	CFS
A	In-line catch basin*	4" round	12.60	175	0.40
B	In-line catch basin*	6" round	12.60	379	0.87
C	In-line catch basin*	4" round	21.63	530	1.22
D	In-line catch basin*	4" round	21.63	242	0.54
E	In-line catch basin*	6" oval	21.63	372	0.86
F	108-4 outlet cap	4" round	6.77	119	0.27
F	208-4 outlet cap	4" round	9.13	220	0.50
F	308-4 outlet cap	4" round	11.50	168	0.39
G	208-6 outlet cap	6" oval	9.13	220	0.50
G	308-6 outlet cap	6" oval	11.50	248	0.57

ATHLETIC FIELD TRENCH DRAIN DETAILS
NOT TO SCALE

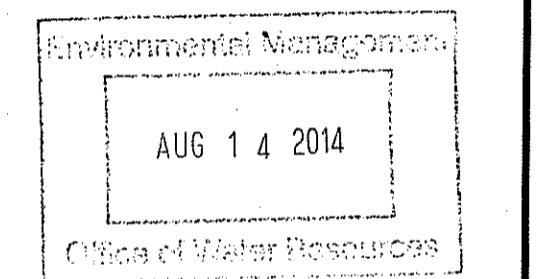
ANY MANUFACTURER'S NAMES AND/OR MODEL NUMBERS IDENTIFIED HEREIN ARE INTENDED TO ASSIST IN ESTABLISHING A GENERAL LEVEL OF QUALITY, CONFIGURATION, FUNCTIONALITY, AND APPEARANCE REQUIRED. THIS IS NOT A PROPRIETARY SPECIFICATION AND IT SHOULD BE NOTED THAT "OR APPROVED EQUIVALENT" APPLIES TO ALL PRODUCTS DENOTED HEREIN. IT IS UNDERSTOOD THAT ALL MANUFACTURERS WILL HAVE MINOR VARIATIONS IN CONFIGURATION, APPEARANCE, AND PRODUCT SPECIFICATION TO ENCOURAGE OPEN AND COMPETITIVE INVOLVEMENT FROM MULTIPLE MANUFACTURERS THAT ARE ABLE TO SUPPLY SIMILAR PRODUCTS.



OWNER

JOHNSTON HIGH SCHOOL FIELD RENOVATIONS

345 CHERRY HILL ROAD
JOHNSTON, RI
ASSESSOR'S PLAT 47 LOT 9



PERMIT SUBMISSION

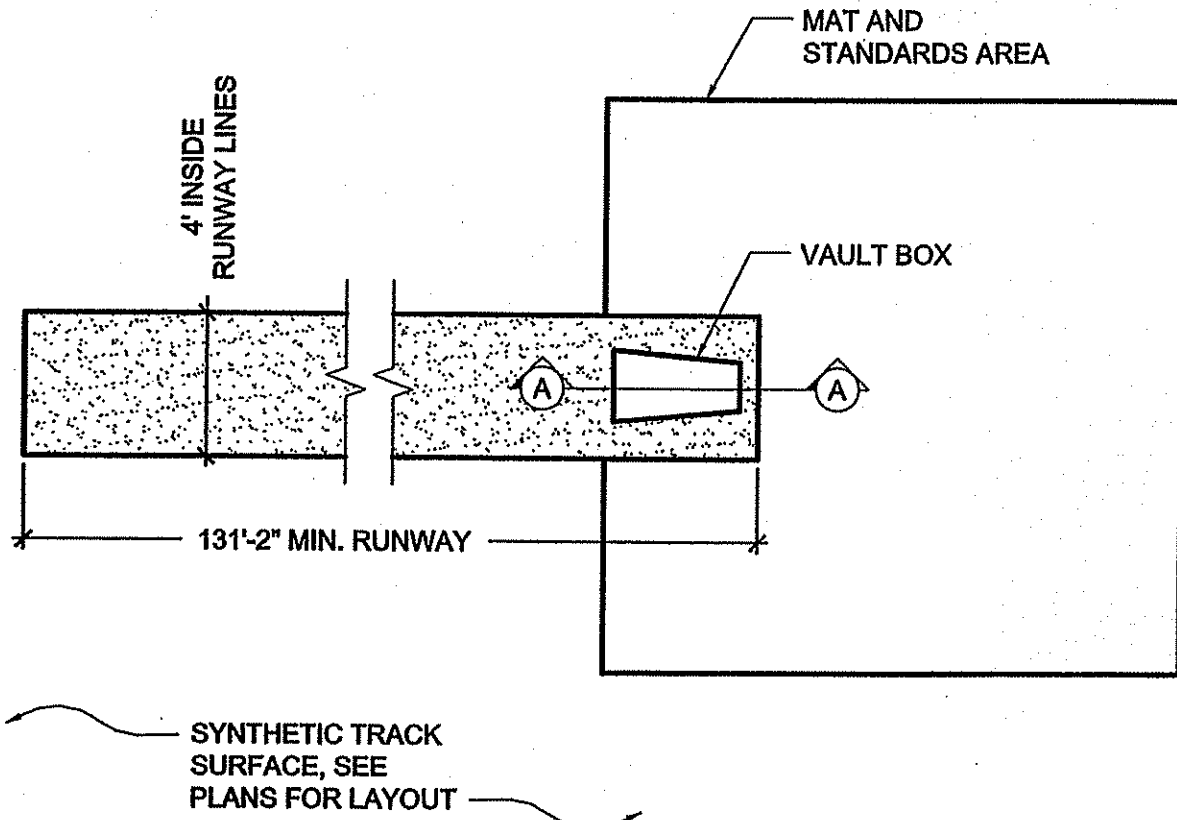
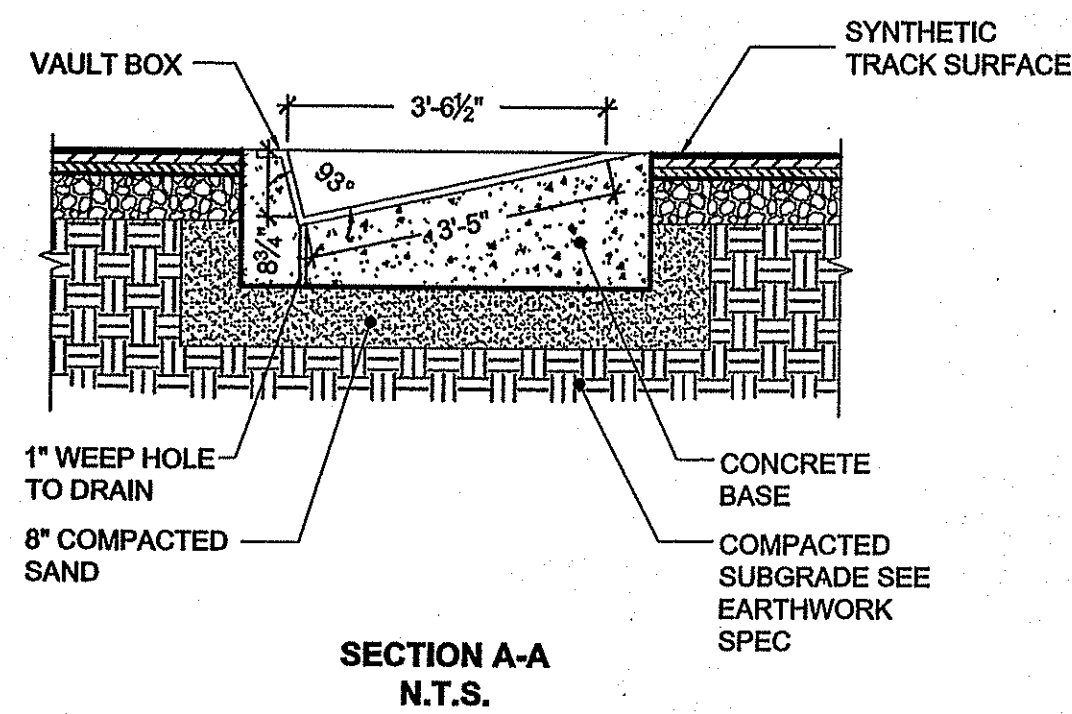
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PROJECT NO:	13121.00	
SCALE:	AS NOTED	
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CIVIL DETAILS-6

CD4.6

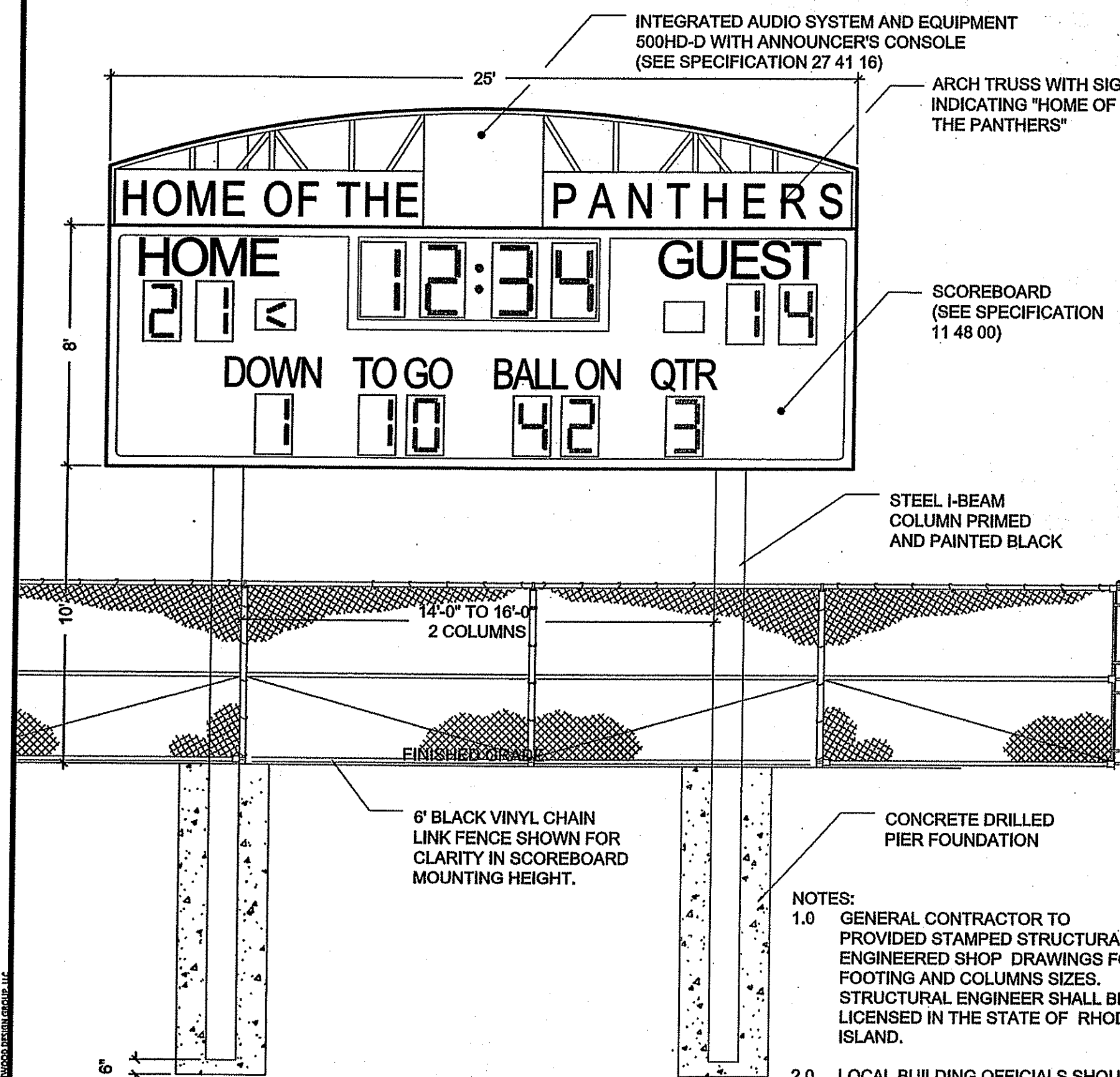
NOTE:

1.0 SEE SPECIFICATION 11 68 00 PLAYFIELD EQUIPMENT AND STRUCTURES FOR ADDITIONAL PLAY EQUIPMENT REQUIREMENTS



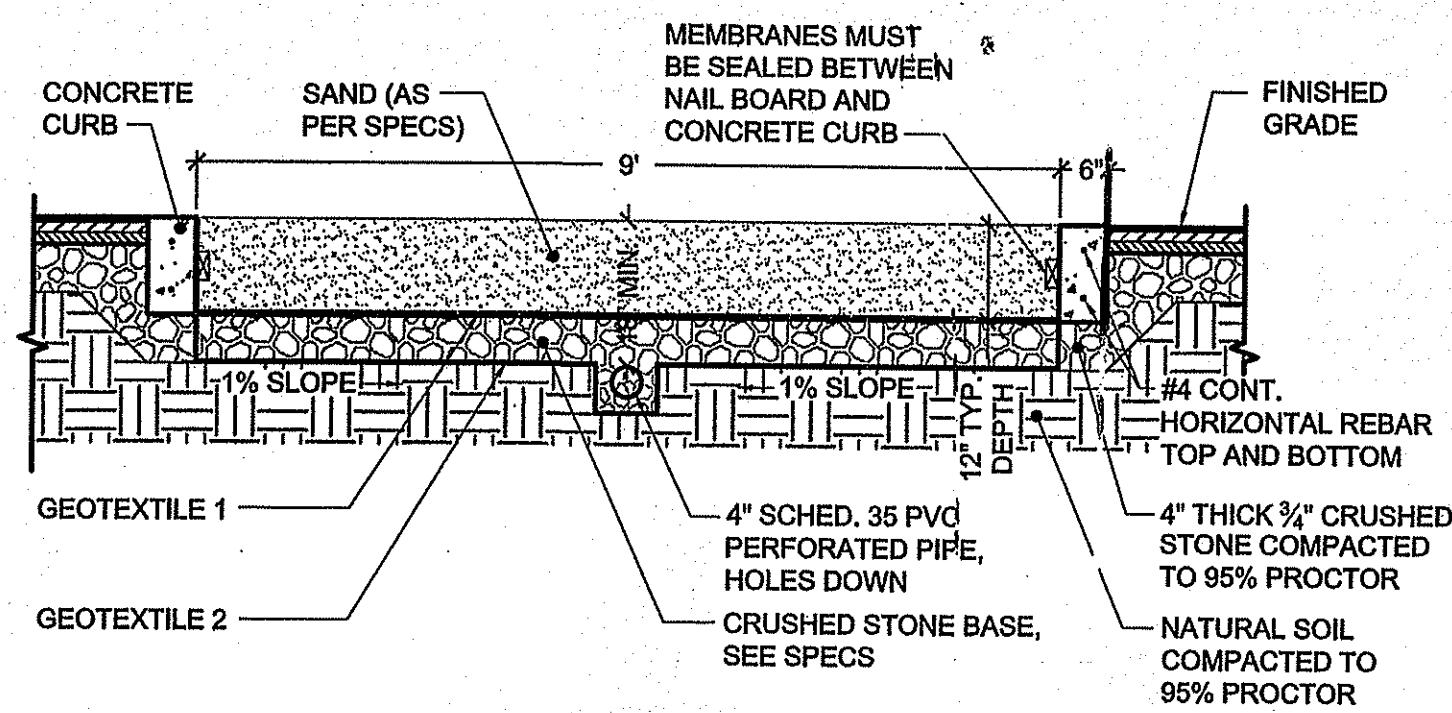
NOTE: REFER TO SPECIFICATIONS FOR MODEL AND MANUFACTURER.

1 POLE VAULT EVENT AREA
SCALE: 3/16"=1'



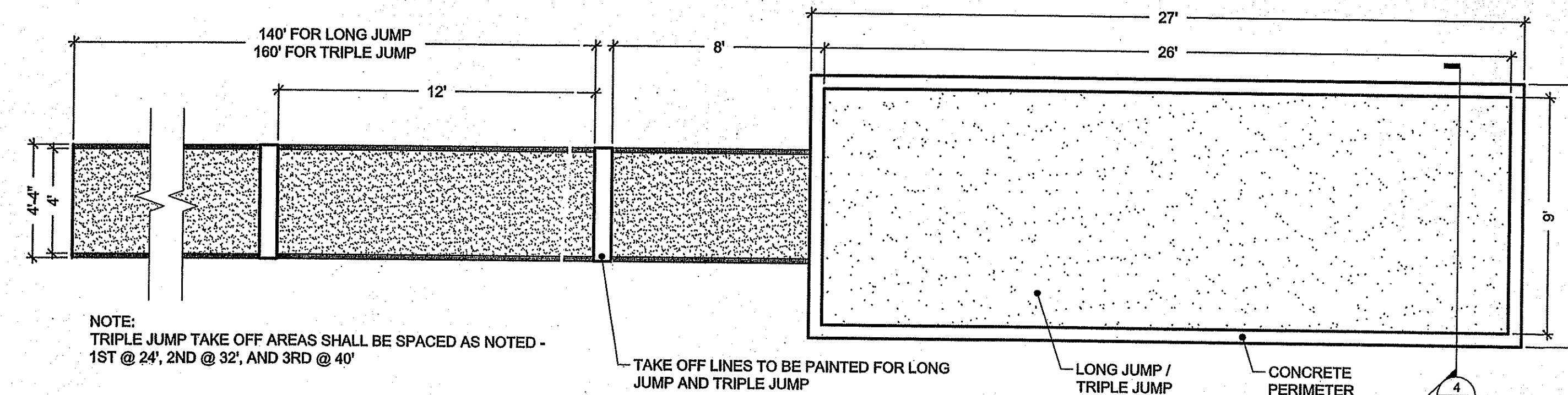
NOTES:
1.0 GENERAL CONTRACTOR TO PROVIDED STAMPED STRUCTURAL ENGINEERED SHOP DRAWINGS FOR FOOTING AND COLUMNS SIZES. STRUCTURAL ENGINEER SHALL BE LICENSED IN THE STATE OF RHODE ISLAND.
2.0 LOCAL BUILDING OFFICIALS SHOULD BE CONTACTED TO DETERMINE THE WIND SPEED AND EXPOSURE CATEGORY FOR THE PROPOSED SIGN LOCATION.

2 SCOREBOARD
SCALE: 1/4"=1'



NOTE: CONCRETE CURB TO BE DESIGNED IN ACCORDANCE WITH GEOTECHNICAL REPORT AND REGIONAL FROST CONDITIONS.

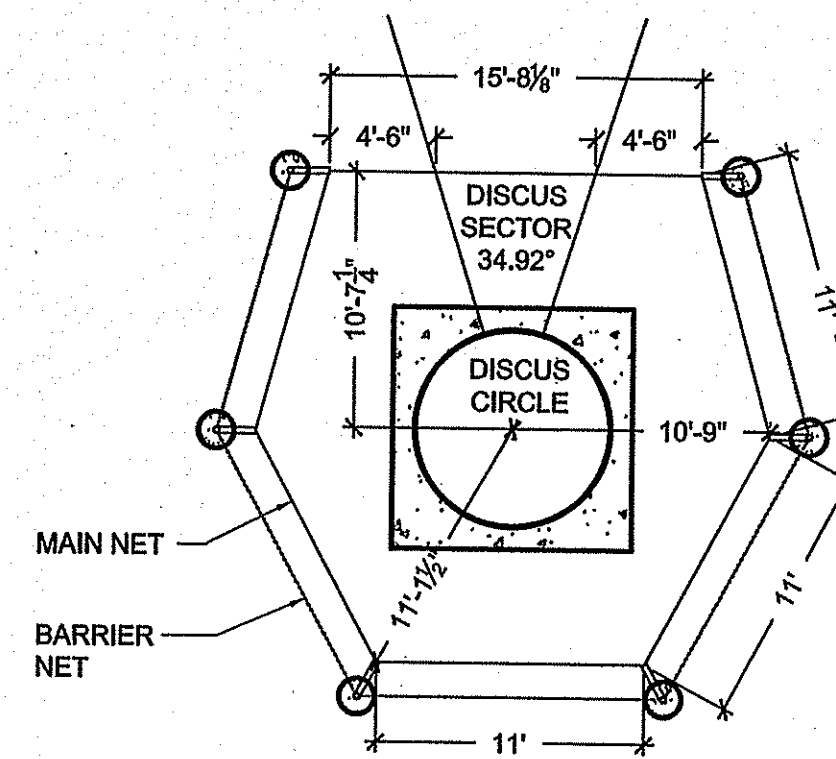
4 LONG JUMP / TRIPLE JUMP PIT SECTION
SCALE: 1/2"=1'



NOTE: TRIPLE JUMP TAKE OFF AREAS SHALL BE SPACED AS NOTED - 1ST @ 24', 2ND @ 32', AND 3RD @ 40'

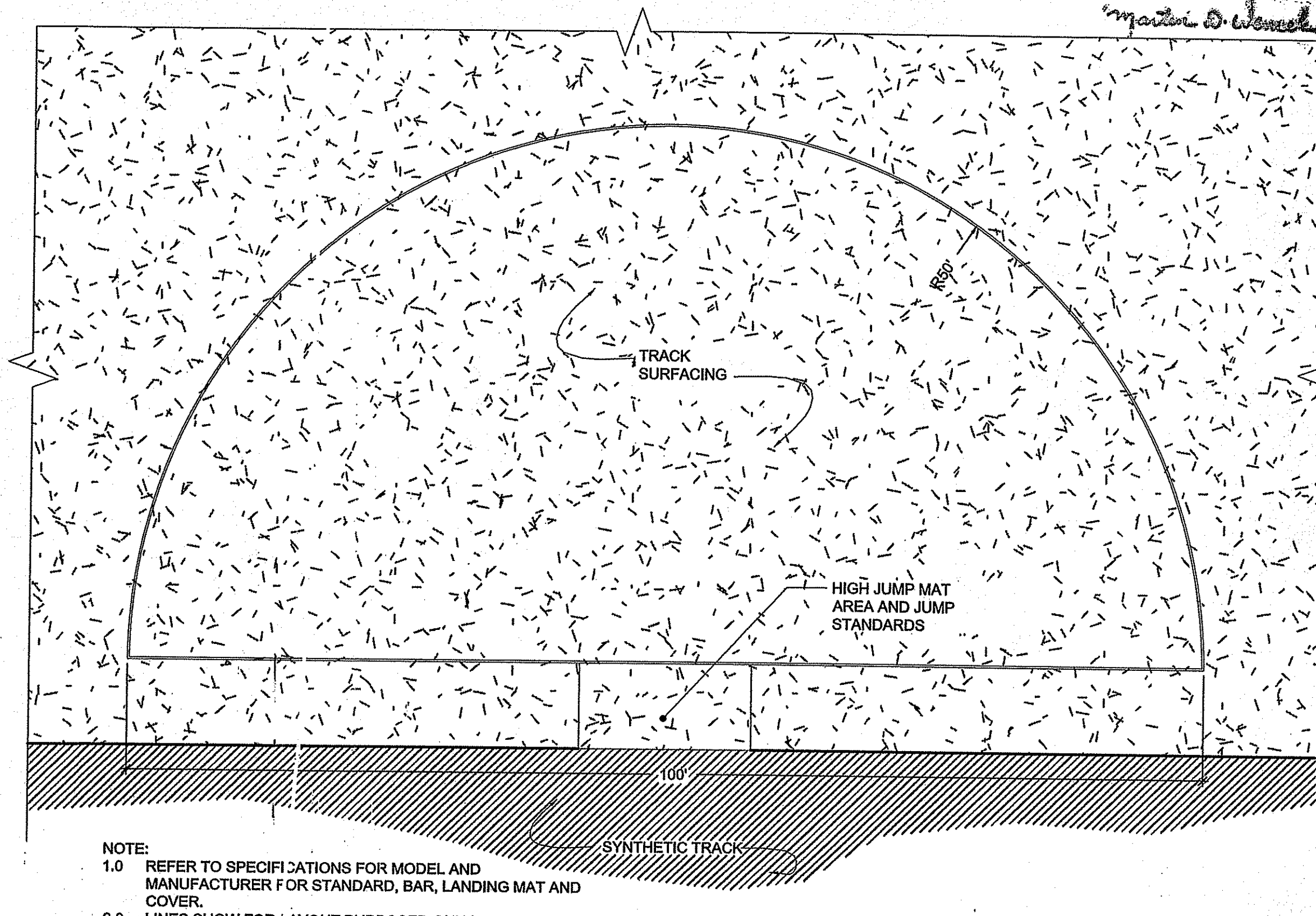
TAKE OFF LINES TO BE PAINTED FOR LONG JUMP AND TRIPLE JUMP

6 DISCUS / HAMMER CAGE
SCALE: 1/8"=1'



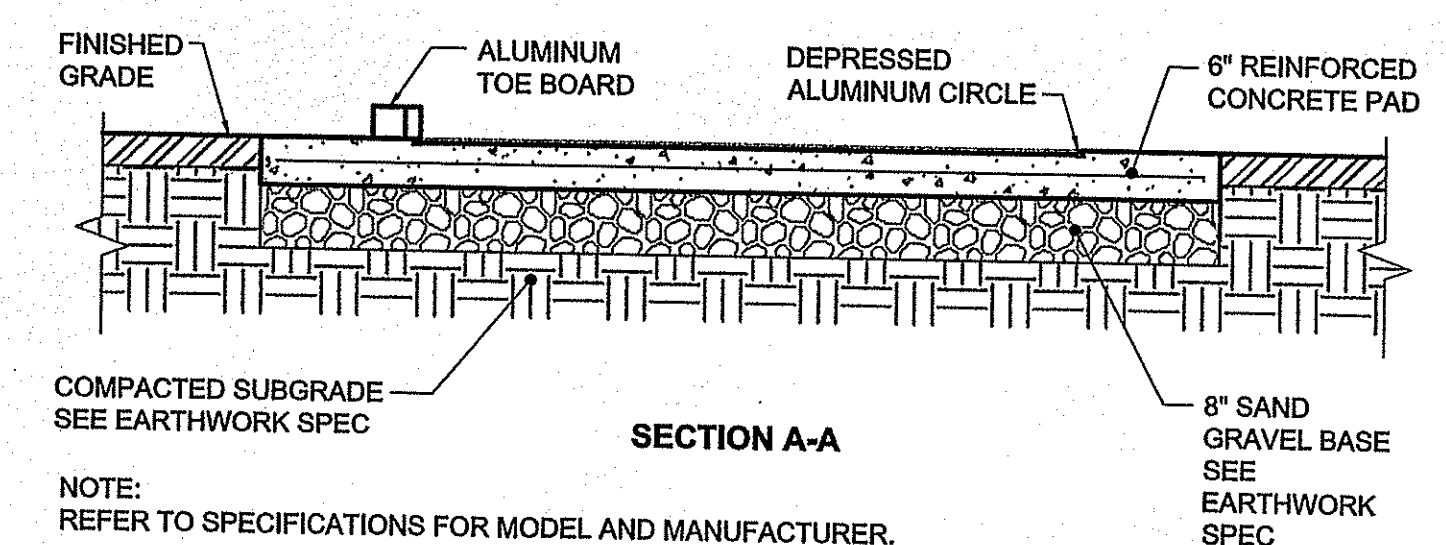
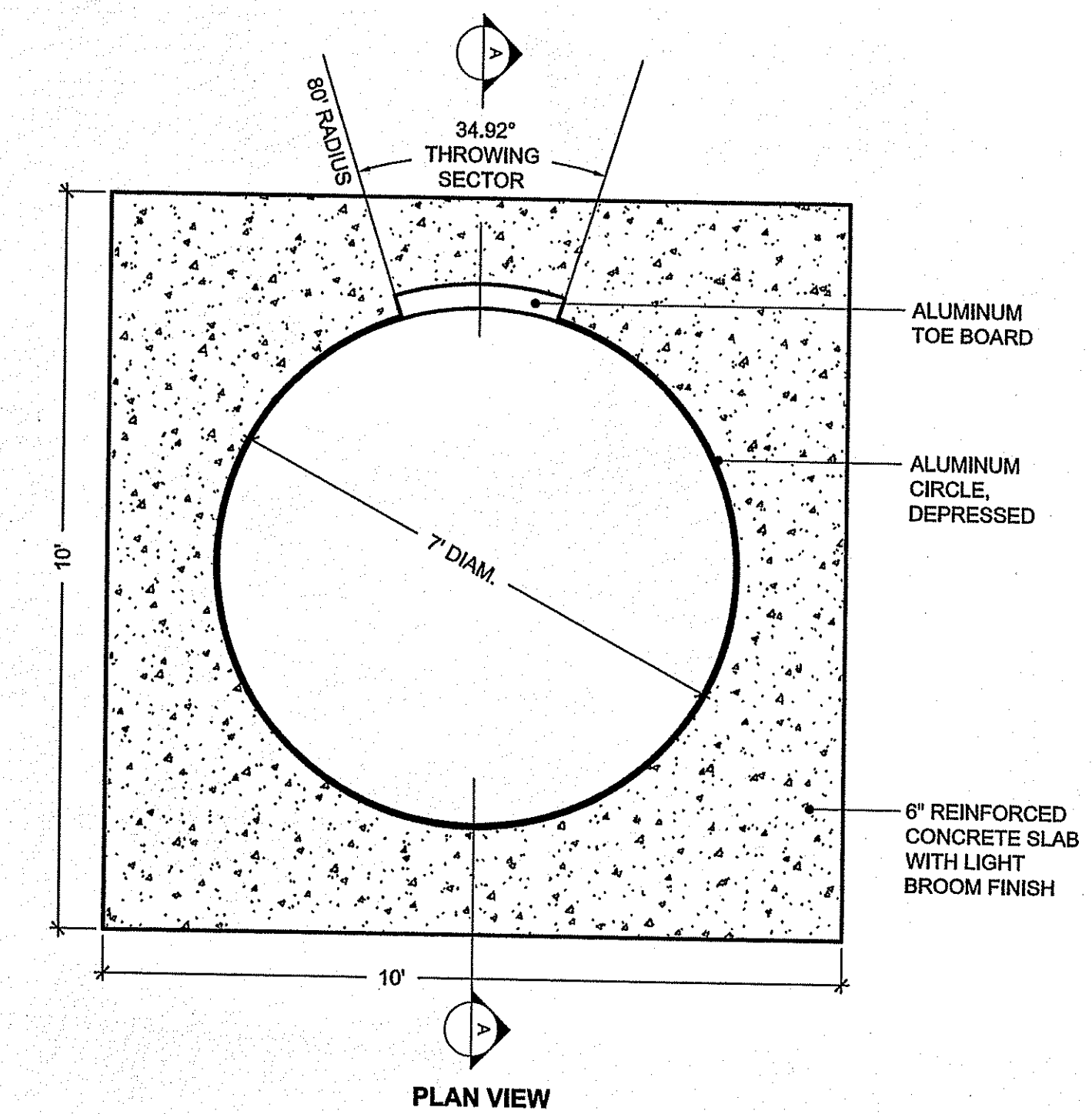
NOTE: REFER TO SPECIFICATIONS FOR MODEL AND MANUFACTURER.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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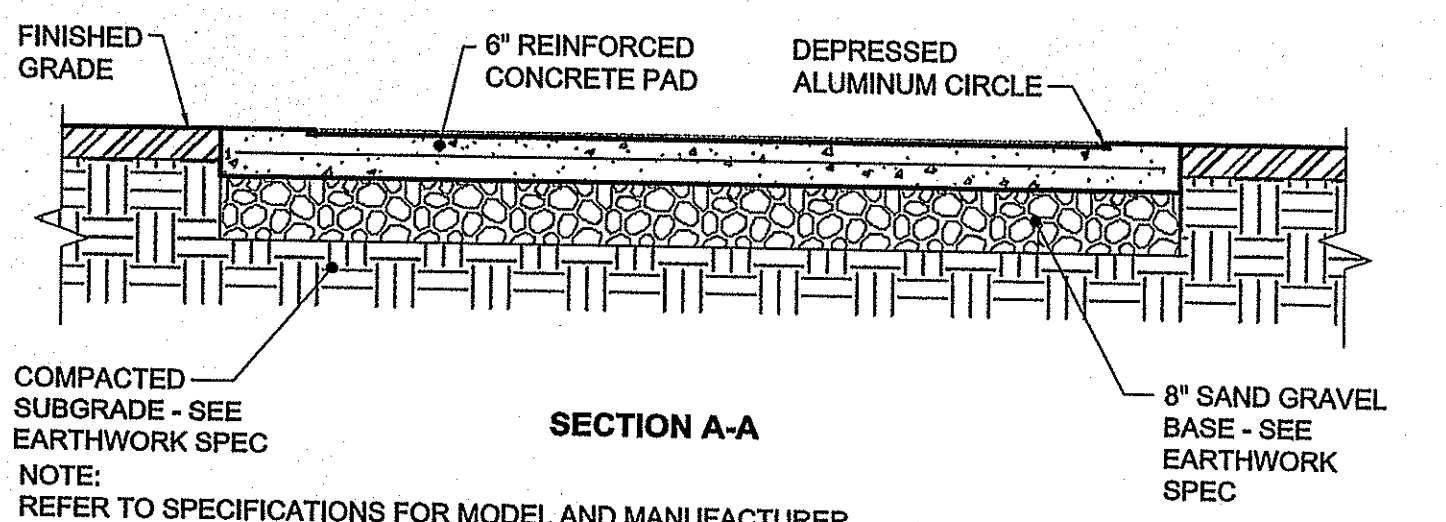
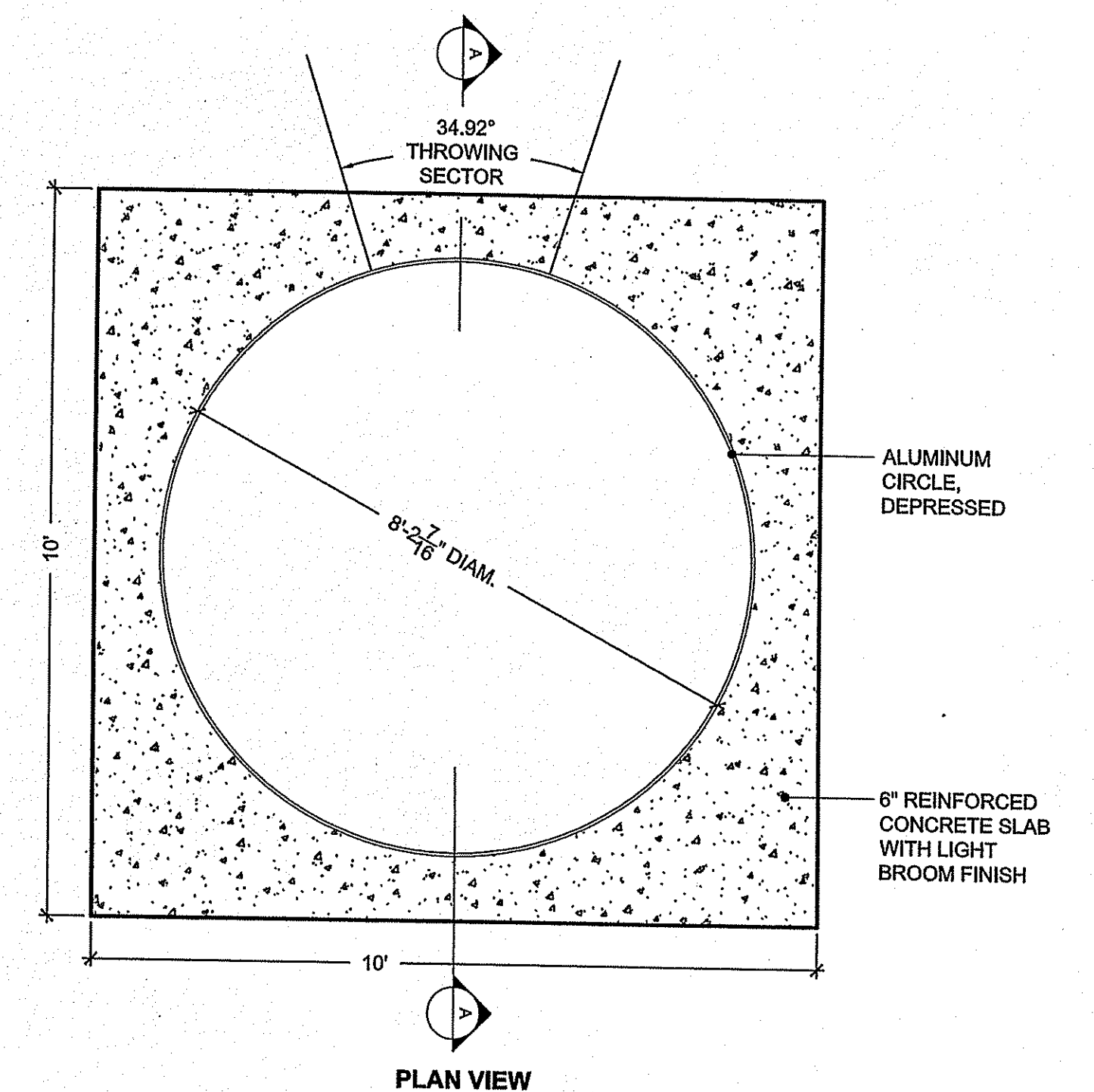


NOTE:
1.0 REFER TO SPECIFICATIONS FOR MODEL AND MANUFACTURER FOR STANDARD, BAR, LANDING MAT AND COVER.
2.0 LINES SHOW FOR LAYOUT PURPOSED ONLY

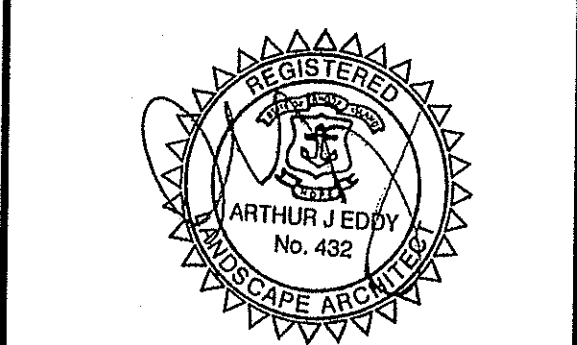
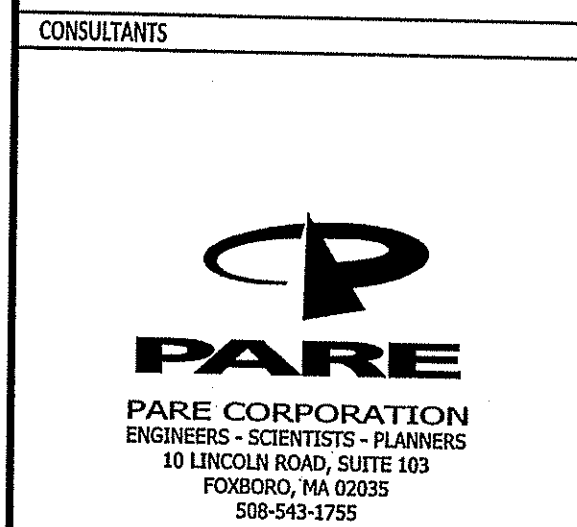
5 HIGH JUMP
SCALE: 1"=10'



7 SHOT PUT PAD
SCALE: 1/2"=1'



8 DISCUS CIRCLE
SCALE: 1/2"=1'



OWNER
JOHNSTON HIGH SCHOOL FIELD RENOVATIONS
345 CHERRY HILL ROAD
JOHNSTON, RI
ASSESSOR'S PLAT 47 LOT 9

APPROVED
AUG 14 2014
Office of Water Resources

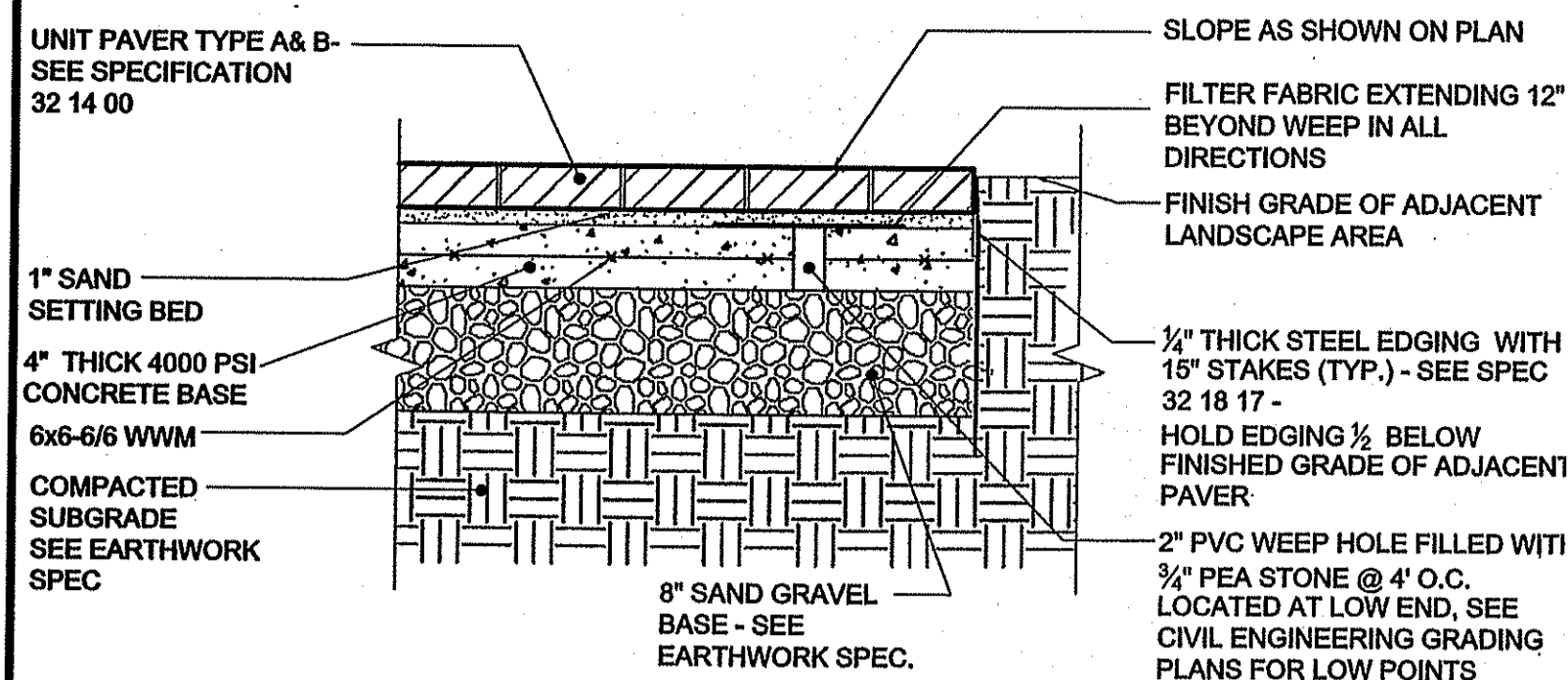
BID DOCUMENTS

MARK	DATE	DESCRIPTION

PROJECT NO: NP-1093
SCALE: N/A
DRAWN BY: AI
CHK'D BY: AE
DATE: MARCH 27, 2014
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LANDSCAPE DETAILS-6

LD5.6

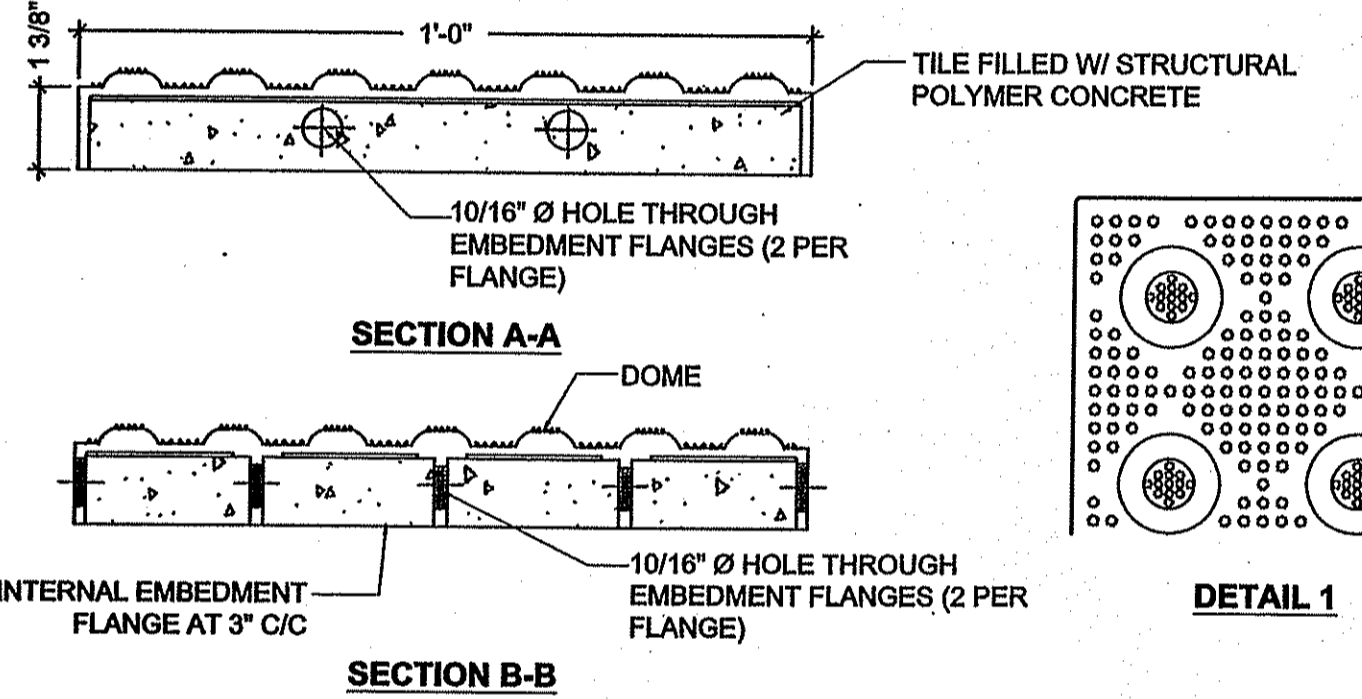
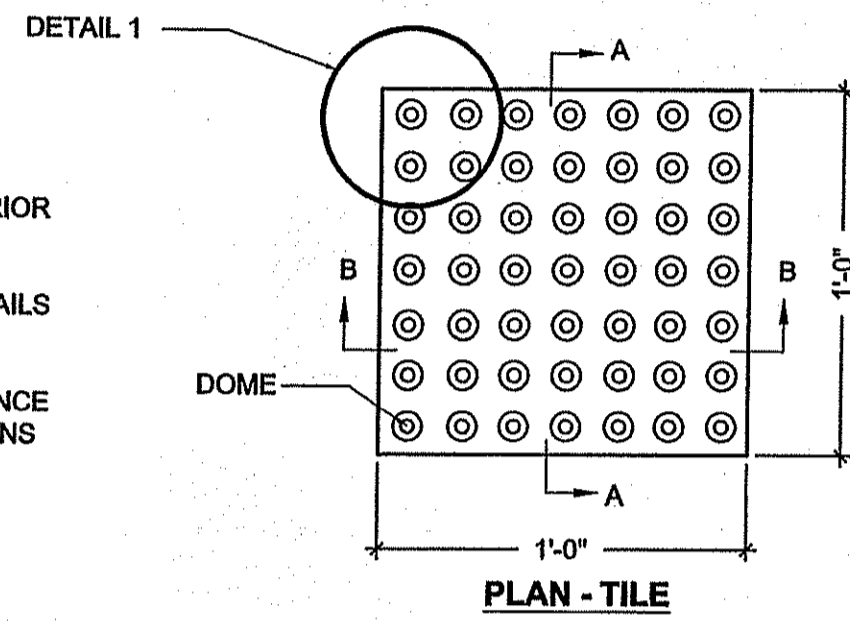


NOTE:
1. PAVER TYPE A: FIELD PAVER
2. PAVER TYPE B: BORDER PAVER

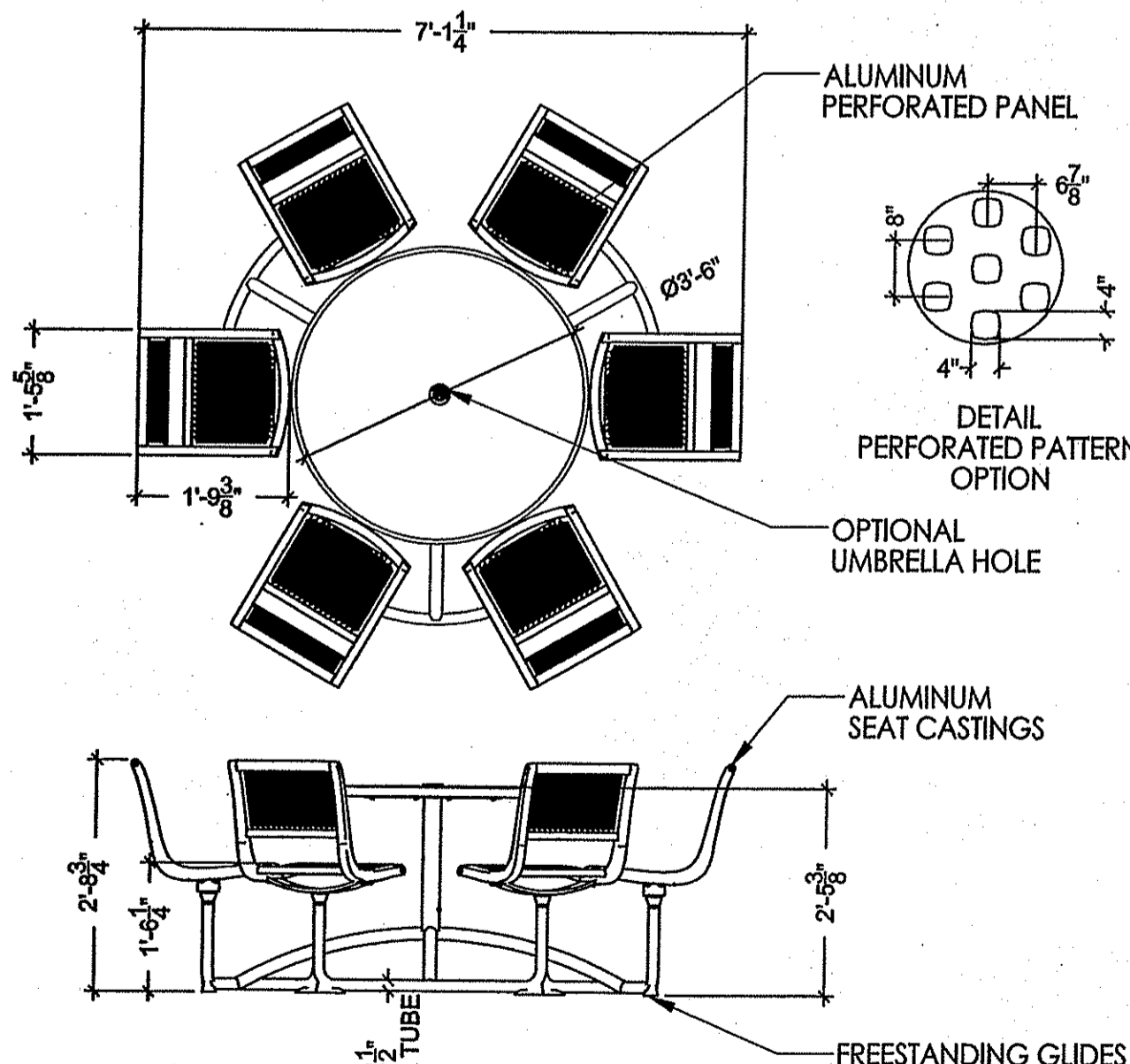
1 UNIT PAVER TYPE A & B
SCALE: 1"=1'

NOTE:

- COLOR SHALL BE OCHRE YELLOW CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND COLOR SAMPLES PRIOR TO CONSTRUCTION.
- REFER TO CONCRETE PAVER DETAILS FOR BASE INFORMATION.
- INSTALLATION TO BE IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS



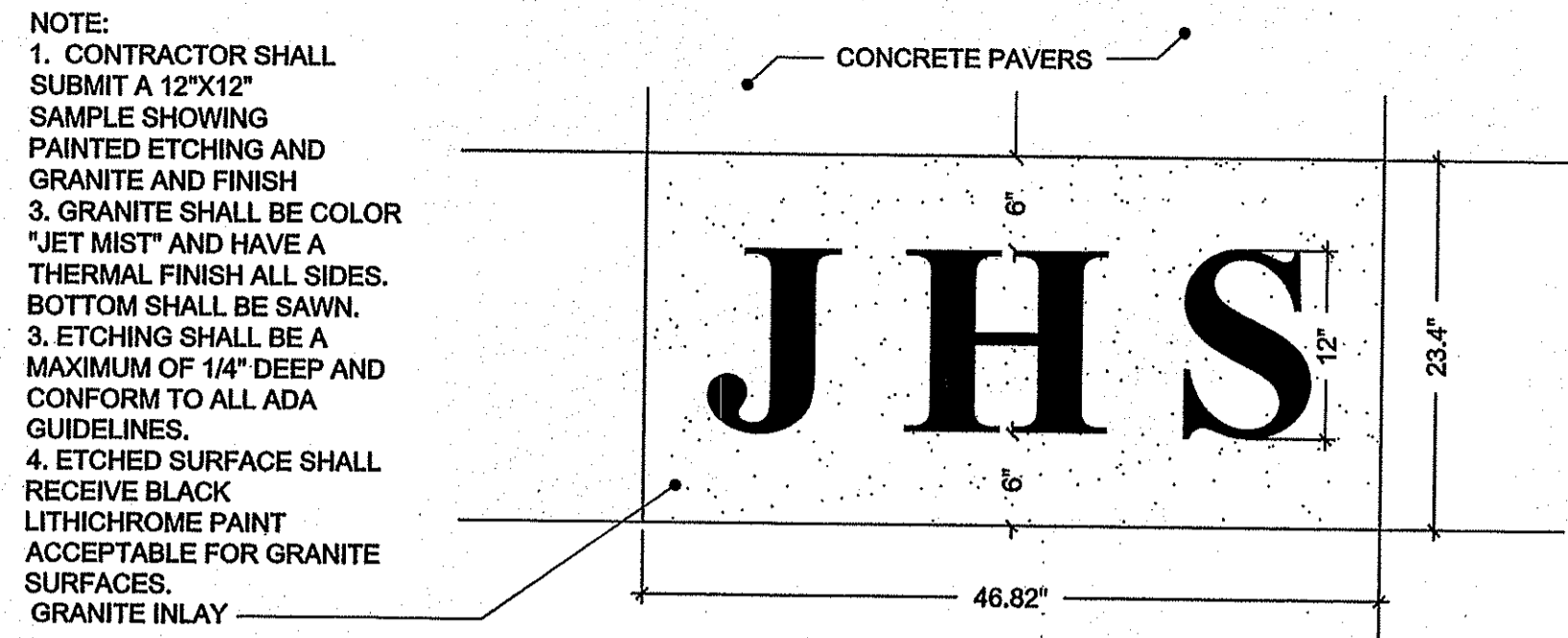
2 TACTILE WARNING PAVERS
SCALE: 1/2"=1'



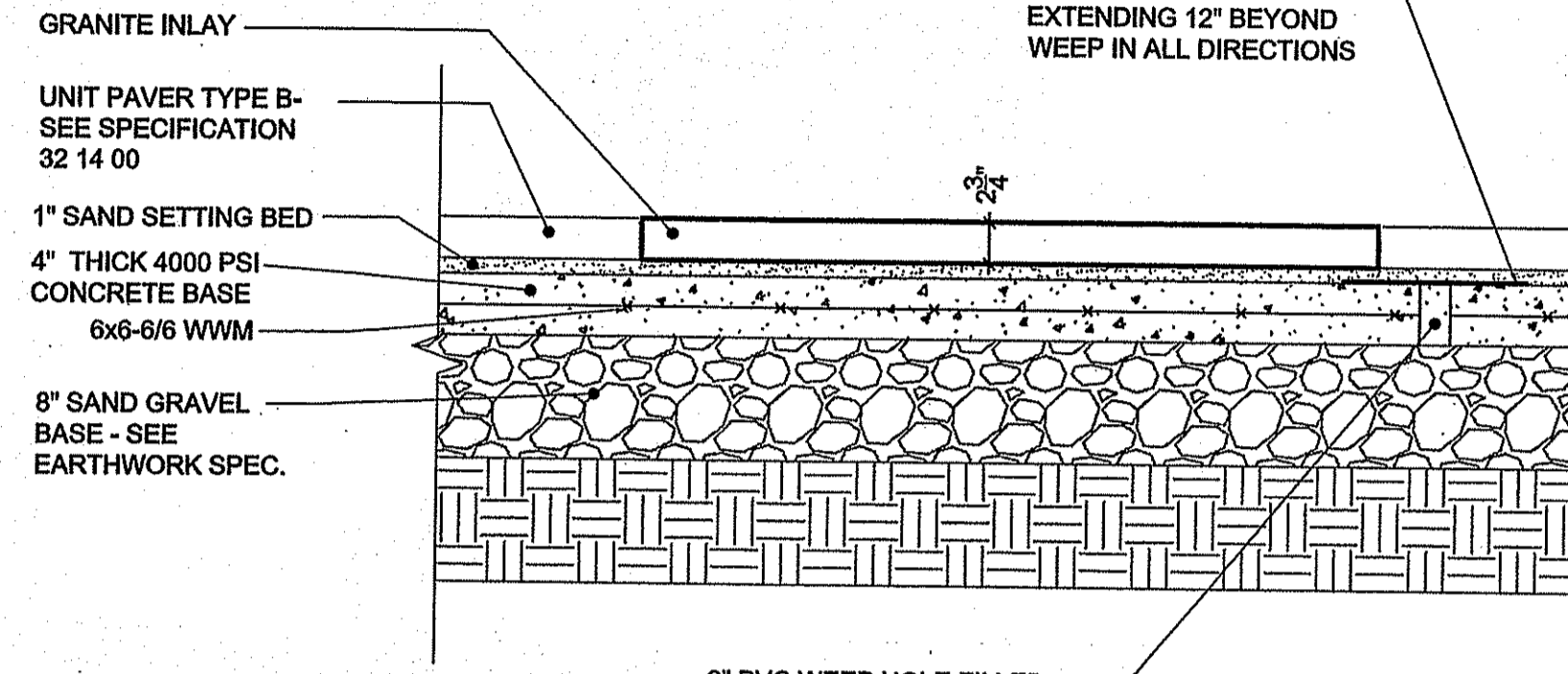
NOTE:
1. TABLE SHALL BE SURFACE MOUNTED.
2. TABLE SHALL HAVE AN UMBRELLA HOLE.
3. SEE SPECIFICATIONS FOR FINISH MATERIALS AND COLORS.
4. ALL SITE AMENITIES SHALL BE FIELD LOCATED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

TABLE TYPES:
TABLE TYPE A SHALL HAVE 6 SEATS
TABLE TYPE B SHALL HAVE 5 SEATS

3 TABLE TYPE A & B
SCALE: 1/2"=1'

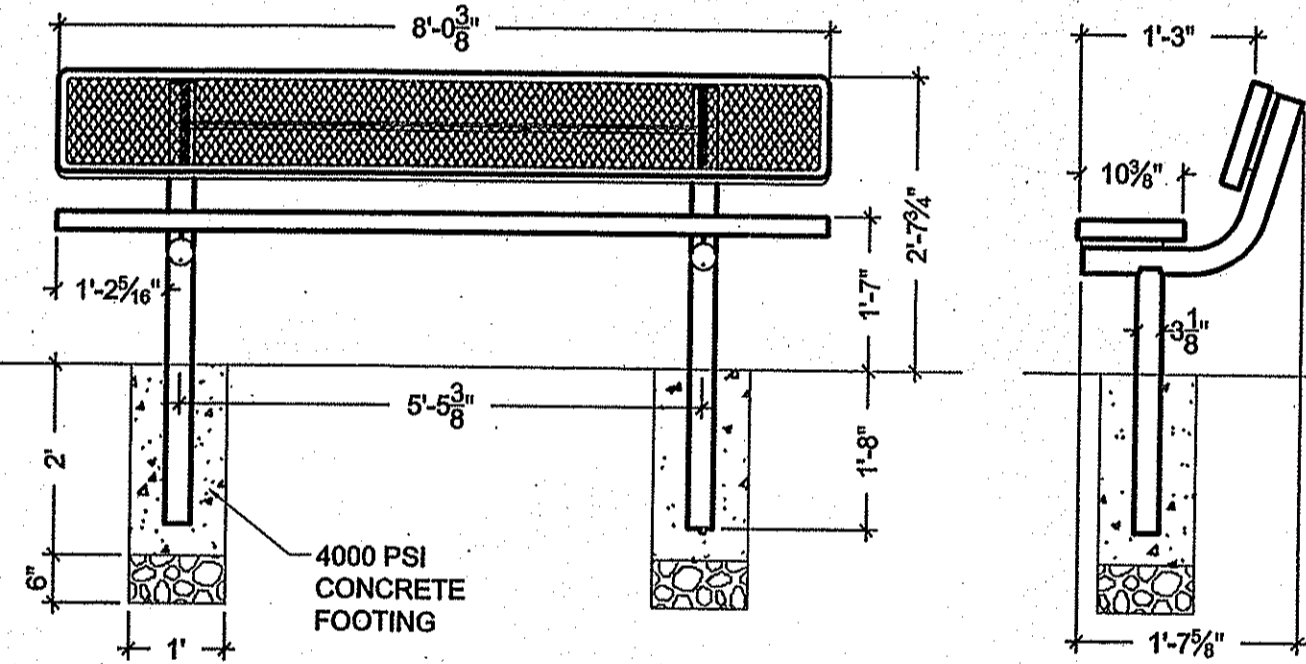


NOTE:
1. CONTRACTOR SHALL SUBMIT A 12"x12" SAMPLE SHOWING PAINTED ETCHING AND GRANITE AND FINISH "JET MIST" AND HAVE A THERMAL FINISH ALL SIDES. BOTTOM SHALL BE SAWN.
3. ETCHING SHALL BE A MAXIMUM OF 1/4" DEEP AND CONFORM TO ALL ADA GUIDELINES.
4. ETCHED SURFACE SHALL RECEIVE BLACK LITHIUM CHROME PAINT ACCEPTABLE FOR GRANITE SURFACES. GRANITE INLAY



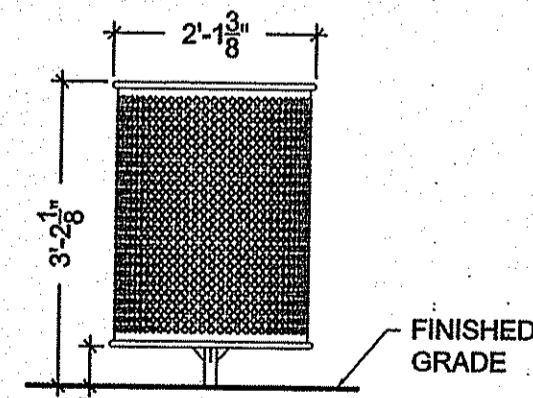
NOTE: GRANITE INLAY SHALL BE SAME THICKNESS AS CONCRETE PAVERS. TOP AND ALL 4 SIDES SHALL HAVE A THERMAL FINISH BOTTOM SHALL BE SAWN

4 GRANITE INLAY
SCALE: 1"=1'



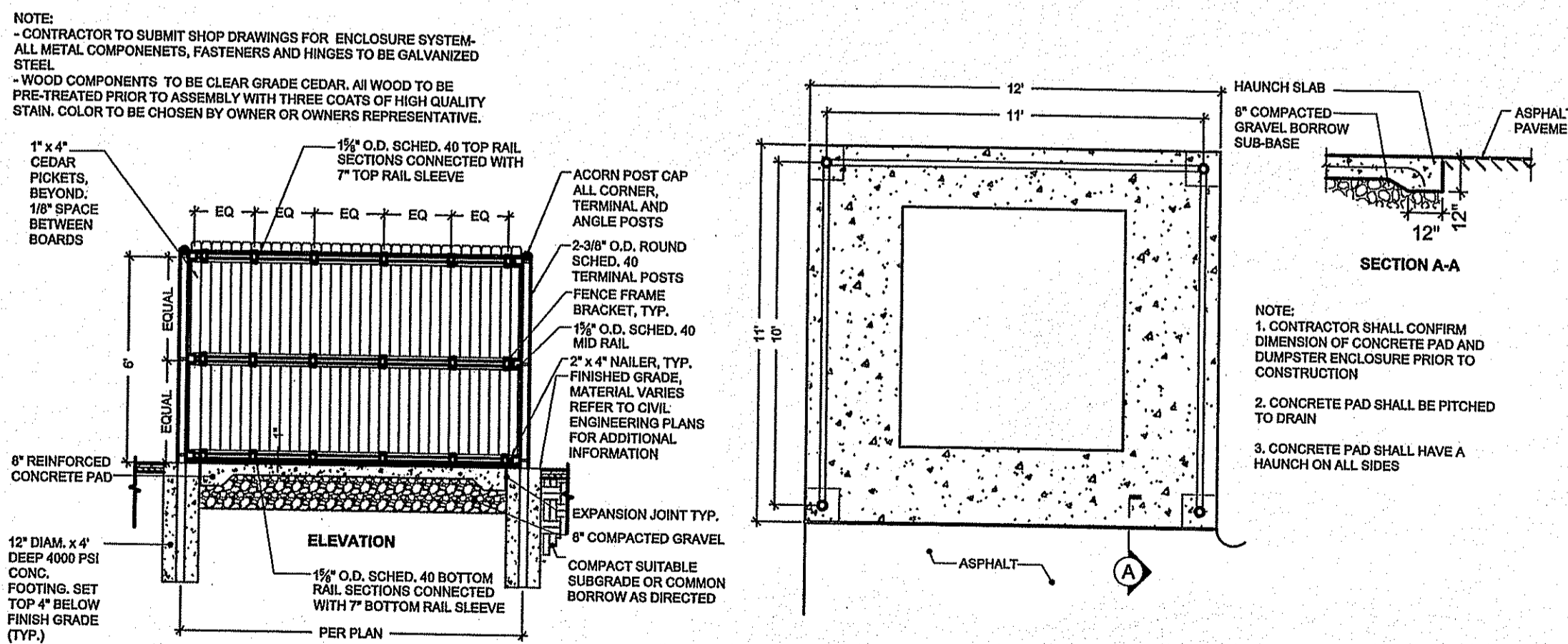
NOTES:
1. PLAYER BENCHES SHALL BE MOUNTED AT LOCATION SHOWN ON PLAN WITH MANUFACTURER'S MOUNTING KIT, SEE SPECS.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. SEE SPECIFICATIONS FOR MANUFACTURER, MODEL, & FINISH

5 PLAYER'S BENCHES
SCALE: 1/2"=1'



NOTES:
1. LITTER RECYCLING CONTAINER SHALL BE SURFACE MOUNTED TO PAVING AT LOCATION SHOWN ON PLAN WITH MANUFACTURER'S MOUNTING KIT, SEE SPECS.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. SEE SPECIFICATIONS FOR MANUFACTURER, MODEL, & FINISH
4. SEE SPECIFICATIONS FOR LID OPTIONS.

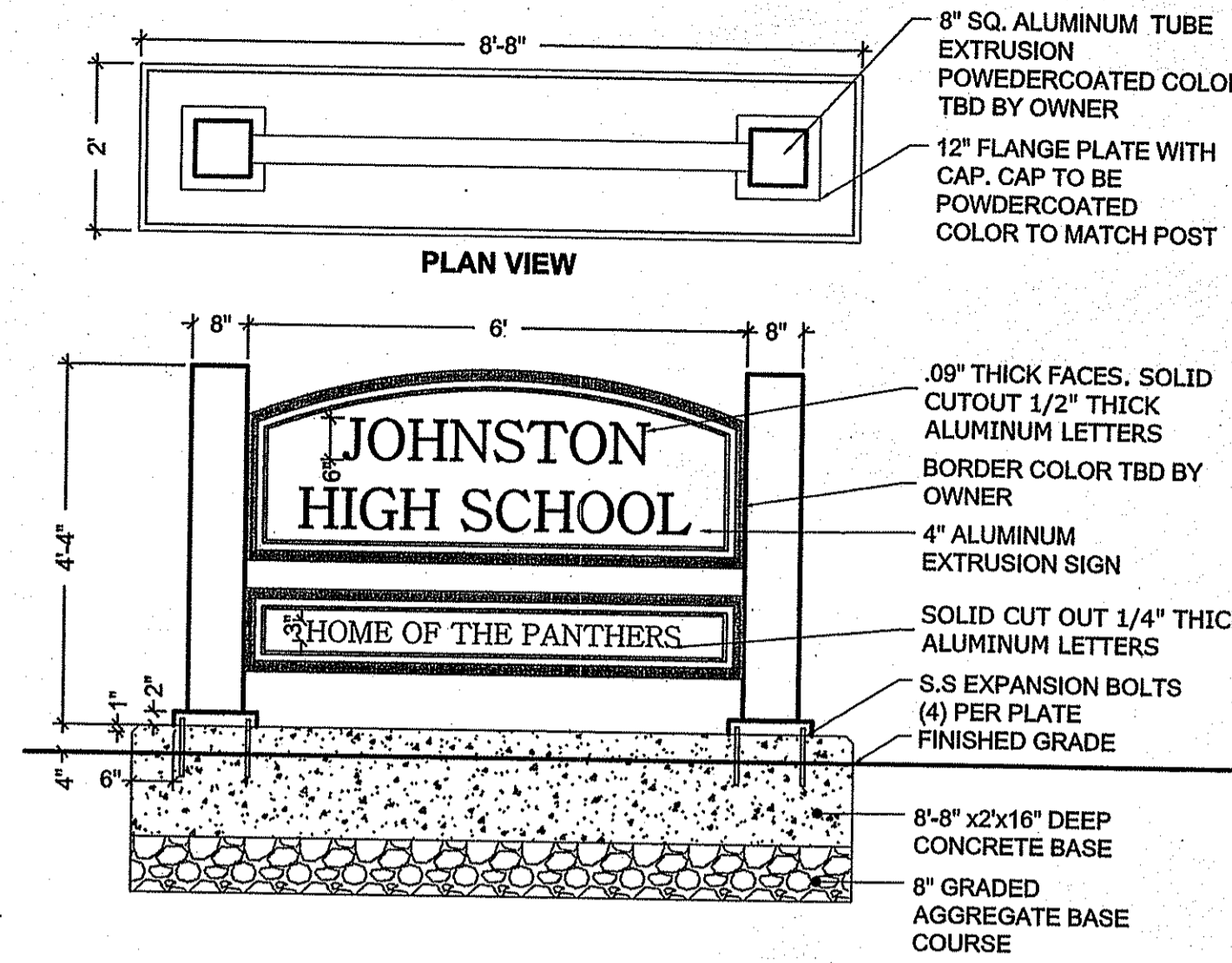
6 LITTER / RECYCLE CONTAINER FOR ATHLETICS
SCALE: 1/2"=1'



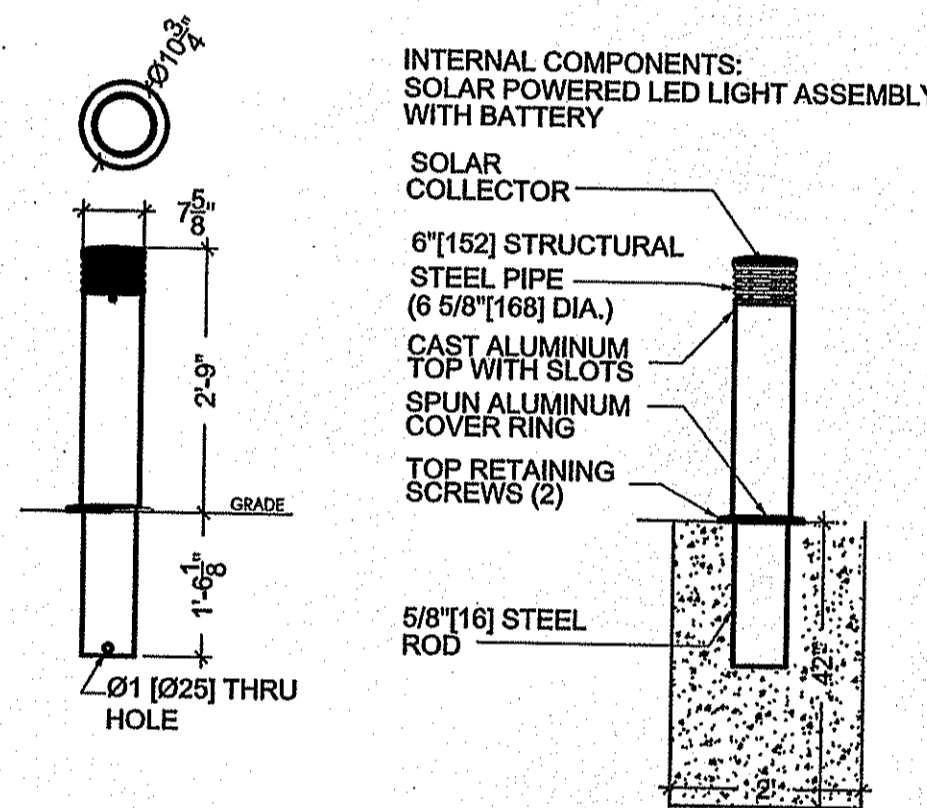
NOTE:
-CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ENCLOSURE SYSTEM. ALL METAL COMPONENTS, FASTENERS AND HINGES TO BE GALVANIZED STEEL.
-WOOD COMPONENTS TO BE CLEAR GRADE CEDAR, ALL WOOD TO BE PRE-TREATED PRIOR TO ASSEMBLY WITH THREE COATS OF HIGH QUALITY STAIN. COLOR TO BE CHOSEN BY OWNER OR OWNERS REPRESENTATIVE.

9 DUMPSTER ENCLOSURE
SCALE: 1/4"=1'

NOTE:
1. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR OWNERS APPROVAL PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO PROVIDE A STAMPED STRUCTURAL ENGINEERED DRAWING FROM THE STATE WITHIN THE PROJECT IS LOCATED.



7 ENTRANCE SIGN
SCALE: 1/2"=1'



NOTES:
1. BOLLARD SHALL BE EMBEDDED PER MANUFACTURERS INSTRUCTIONS.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. SEE SPECIFICATIONS FOR MANUFACTURER, MODEL, & FINISH

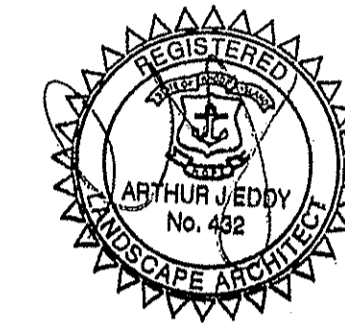
8 SOLAR BOLLARD
SCALE: 1/2"=1'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
PROTECTED WETLANDS PROGRAM
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED AUG 19 2014 FILE # 14-0222
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wenzel



CONSULTANTS



OWNER
JOHNSTON HIGH SCHOOL FIELD RENOVATIONS
345 CHERRY HILL ROAD
JOHNSTON, RI
ASSESSOR'S PLAT 47 LOT 9

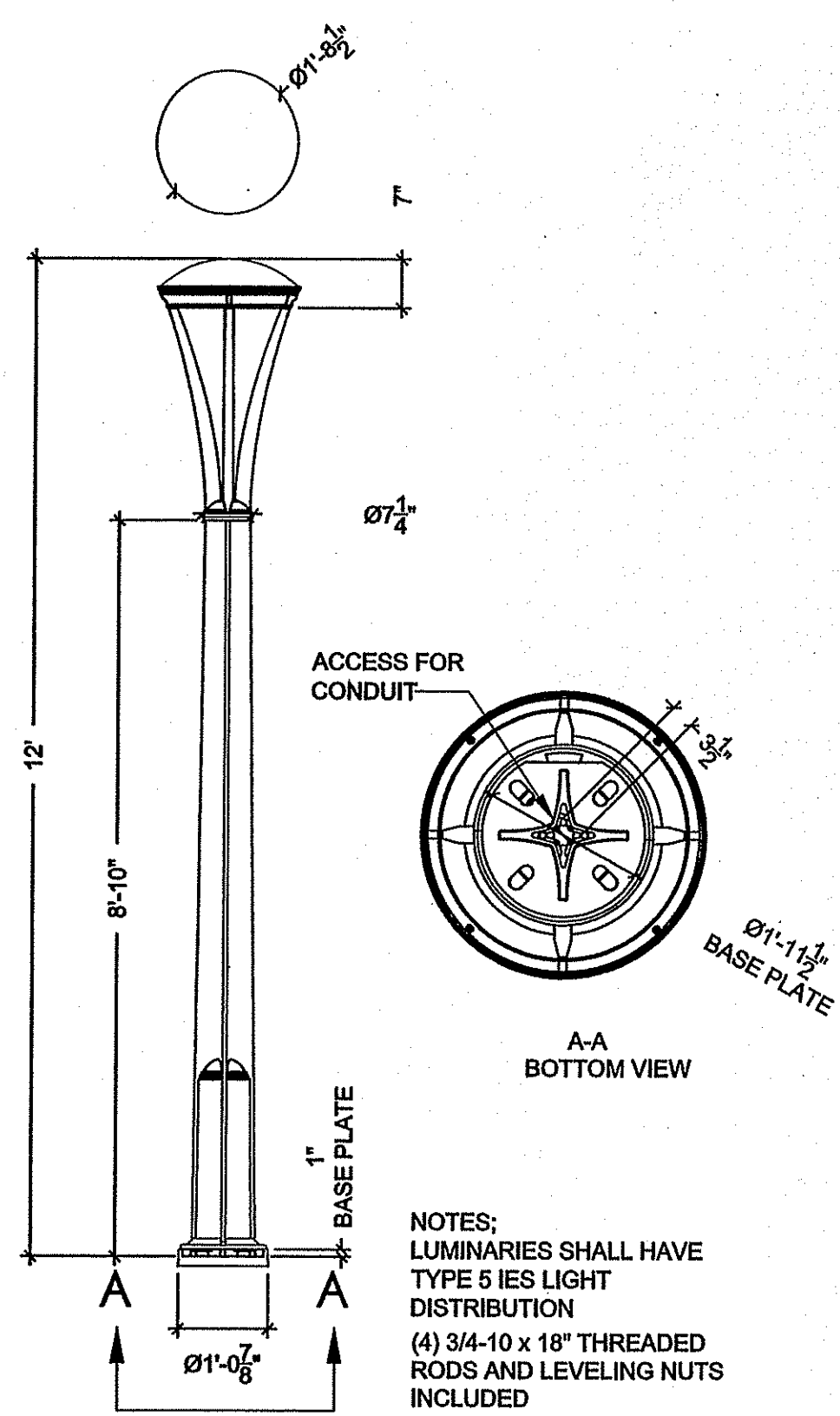
Environmental Management
AUG 14 2014
Office of Water Resources

BID DOCUMENTS

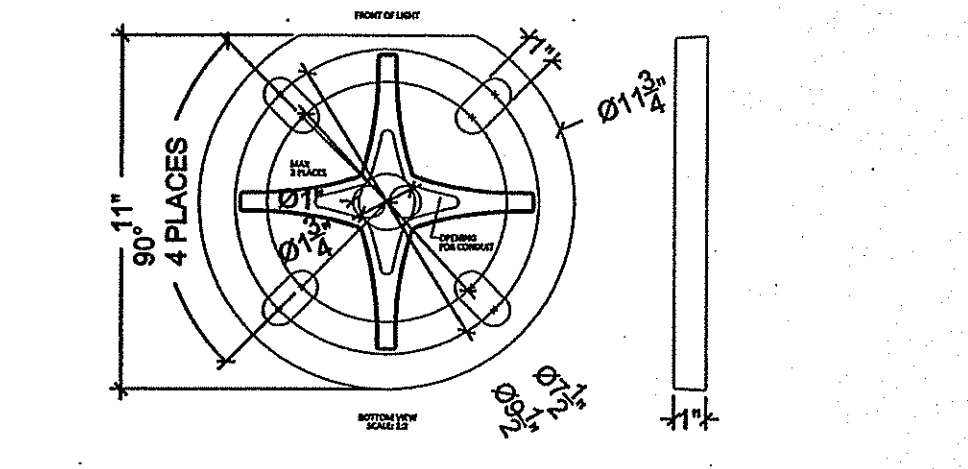
MARK	DATE	DESCRIPTION
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SCALE:	N/A	
DRAWN BY:	AI	
CHK'D BY:	AE	
DATE:	MARCH 27, 2014	
COPYRIGHT:		
SHEET TITLE:		

LANDSCAPE DETAILS-8

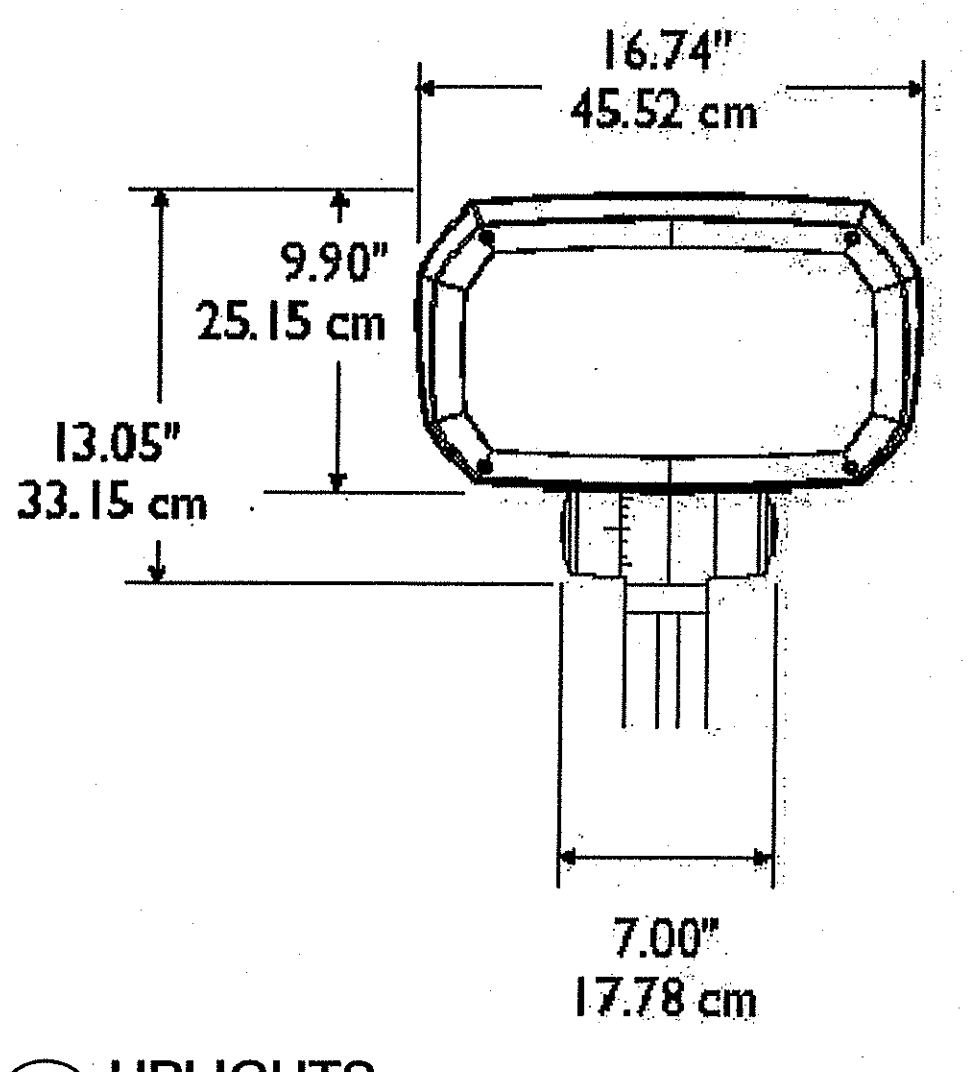
LD5.8



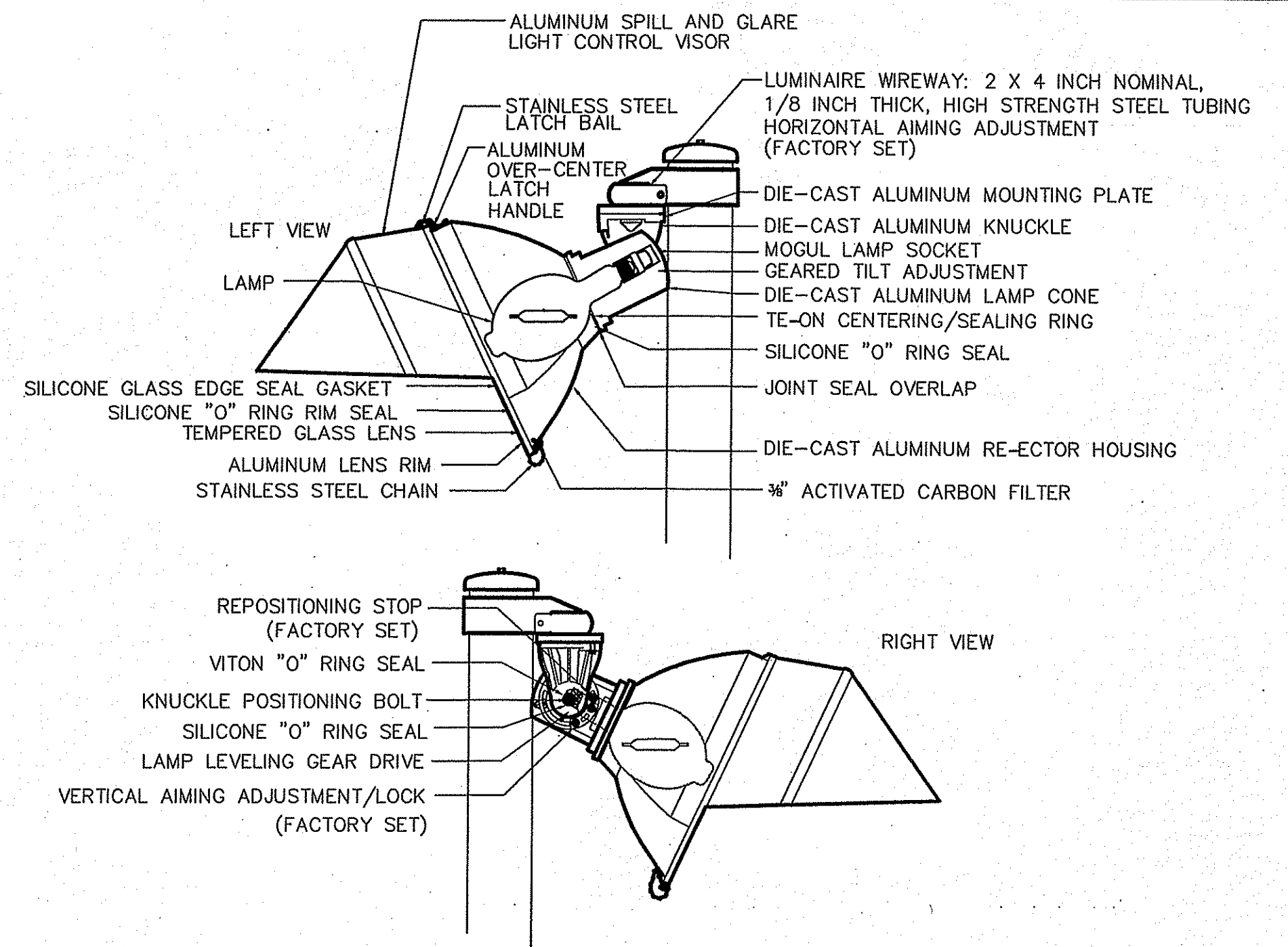
1 PEDESTRIAN LIGHT
SCALE: 1/2"=1'



2 BASE PLATE
SCALE: 2"=1'



3 UPLIGHTS
SCALE: 2"=1'



4 ATHLETIC LIGHT FIXTURE
SCALE: NTS

POLE DESIGNATION	FORCES			DRILLED PIER		
	MOMENT (M) FT-LBS	SHEAR (V) LBS	VERTICAL (P) LBS (1)	DIAMETER INCHES	EMBEDMENT DEPTH	CONCRETE BACKFILL YD ³ (2)
F1,F2	151,153	2,726	3,572	30	16'-0"	1.9
F3,F4	155,284	2,794	3,752	30	16'-0"	1.9

- WEIGHT OF POLE, FIXTURES AND ACCESSORIES.
- MINIMUM CONCRETE BACKFILL VOLUME, SITE CONDITIONS MAY REQUIRE ADDITIONAL BACKFILL.
- POTENTIAL FOR ENCOUNTERING ROCK BEFORE REACHING EMBEDMENT DEPTH. ROCK AUGERING EQUIPMENT MAY BE REQUIRED.

PRECAST BASE TYPE	PRECAST BASE WEIGHT	PRECAST BASE LENGTH	PROJECTION ABOVE GRADE	STANDARD EMBEDMENT	OUTSIDE DIAMETER
5B	4,580 LBS	23'-11"	32.8	16'-0"	18.25"

POLE DESIGNATION	POLE TYPE	FIXTURE CONFIGURATION (FIX, PER XARM)	FIXTURE AND ACCESSORIES EPA (FT ²)
F1,F2	LSS80B	12 (6+6)	32.4
F3,F4	LSS80B	14 (6+6)	32.8

- POLES F3&F4 EACH HAVE TWO FIXTURES AT 60°-0° AGL, INCLUDED IN EPA ABOVE

DESIGN PARAMETERS:
WIND: 100 MPH (EXP. C, 1=1.0) PER IBC CODE, 2009 EDITION (ASCE 7-05). DESIGN WIND PARAMETERS ARE NOTED.

GEOTECHNICAL PARAMETERS:
ALLOWABLE END BEARING SOIL PRESSURE: 4,000 PSF
ALLOWABLE LATER SOIL BEARING PRESSURE: 0 PSF/FT (GRADE TO 2'-0"), VARIES SE BORING LOG (BELOW 2'-0").
IN ACCORDANCE WITH THE 2009 EDITION OF THE INTERNATIONAL BUILDING CODE CHAPTER 18.

DESIGN SOIL PARAMETERS ARE AS NOTED. ACTUAL ALLOWABLE SOIL PARAMETERS MUST BE VERIFIED ON SITE. REFERENCE SOILS AND FOUNDATION REPORT, NO. 13121.00, PREPARED BY PARE ASSOCIATES, FOXBORO, MA.

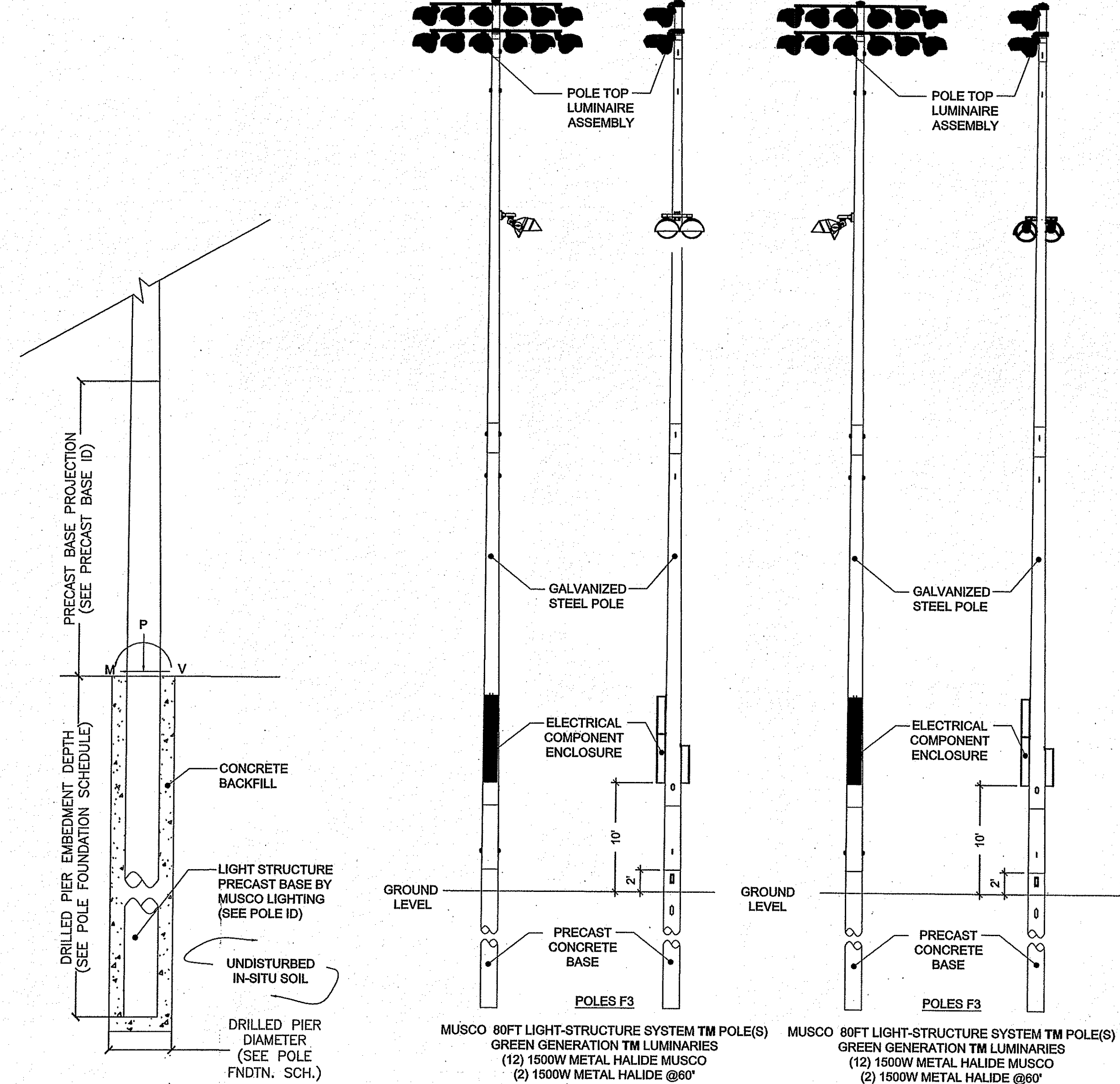
A GEOTECHNICAL ENGINEER REPRESENTATIVE OF IS RECOMMENDED (NO REQUIRED) TO BE AVAILABLE AT THE TIME OF THE FOUNDATION INSTALLATION TO VERIFY THE SOIL DESIGN PARAMETERS AND TO PROVIDE ASSISTANCE IF ANY PROBLEMS ARISE IN FOUNDATION INSTALLATION.

ENCOUNTERING SOIL FORMATIONS THAT WILL REQUIRE SPECIAL DESIGN CONSIDERATION OR EXCAVATION PROCEDURES MAY OCCUR. POLE FOUNDATIONS WILL NEED TO BE ANALYZED ACCORDING TO THE SOIL CONDITIONS THAT EXIST. IF ANY DISCREPANCIES OR INCONSISTENCIES ARISE, NOTIFY THE ENGINEER OF SUCH DISCREPANCIES. FOUNDATIONS WILL THEN BE REVISED ACCORDINGLY. REVISIONS WILL BE ANALYZED PER RECOMMENDATIONS DIRECTED BY A REGISTERED ENGINEER.

ALL EXCAVATIONS MUST BE FREE OF LOOSE SOIL AND DEBRIS PRIOR TO FOUNDATION INSTALLATION AND CONCRETE BACKFILL PLACEMENT. TEMPORARY CASINGS OR DRILLERS SLURRY MAY BE USED TO STABILIZE THE EXCAVATION DURING INSTALLATION. CASINGS MUST BE REMOVED DURING CONCRETE BACKFILL PLACEMENT. CONCRETE BACKFILL MUST BE PLACED WITH A TREMIE WHEN SLURRY OR WATER IS PRESENT WITHIN THE EXCAVATION OR WHEN THE FREE DROP EXCEEDS 6'-0".

CONTRACTOR MUST BE FAMILIAR WITH THE COMPLETE SOIL INVESTIGATION REPORT AND BORINGS, AND CONTACT THE GEOTECHNICAL FIRM TO UNDERSTAND THE SOIL CONDITIONS AND THE POSSIBILITY OF GROUND WATER PUMPING AND EXCAVATION STABILIZATION OR BRACING DURING PRECAST BASE INSTALLATION AND PLACEMENT OF CONCRETE BACKFILL.

GENERAL NOTES:
FIXTURES MUST BE LOCATED TO MAINTAIN 10'-0" MINIMUM HORIZONTAL CLEARANCE FROM ANY OBSTRUCTION. ENGINEER MUST BE NOTIFIED IF FOUNDATIONS ARE NEAR ANY RETAINING WALLS OR WITHIN/NEAR ANY SLOPES STEEPER THAN 3H:1V. POLES, FIXTURES, PRECAST BASES, ELECTRICAL ITEMS AND INSTALLATION PER MUSCO LIGHTING.



5 POLE FOUNDATION ELEV. SCALE: 1/4"=1'
6 ATHLETIC LIGHTING SCALE: 1/8"=1'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED AUG 19 2014 FILE # 14-0132
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

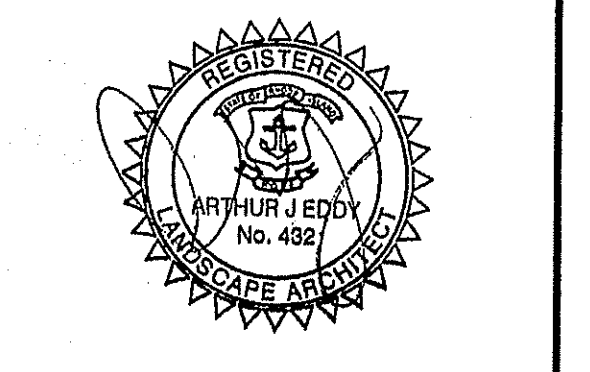
Martin D. Wozniak

- NOTES:
- DRAWING LD5.10 INDICATE DESIGN INTENT. FINAL DESIGN AND DOCUMENTATION SHALL BE SUBMITTED BY THE MANUFACTURER.
 - GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL APPLICABLE STATE AND LOCAL PERMITS AND OCCUPANCY REQUIREMENTS.
 - ALL STRUCTURAL, ARCHITECTURAL, ELECTRICAL AND MECHANICAL ENGINEERING SHALL BE SUBMITTED BY THE MANUFACTURER.



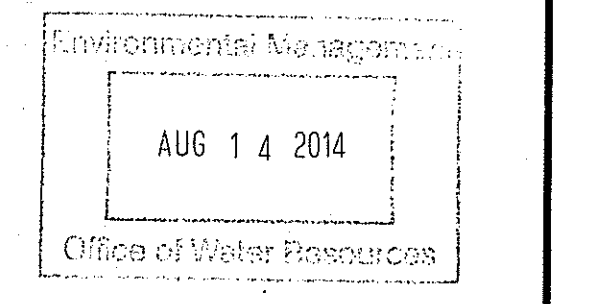
CONSULTANTS

PARE
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
10 LINCOLN ROAD, SUITE 103
FOXBORO, MA 02035
508-945-1755



OWNER

JOHNSTON HIGH SCHOOL FIELD RENOVATIONS
345 CHERRY HILL ROAD
JOHNSTON, RI
ASSESSOR'S PLAT 47 LOT 9



BID DOCUMENTS

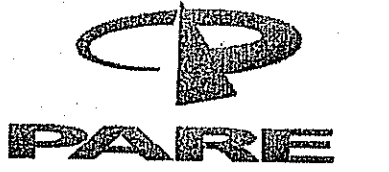
MARK	DATE	DESCRIPTION

PROJECT NO: NP-1033
SCALE: N/A
DRAWN BY: AI
CHK'D BY: AE
DATE: MARCH 27, 2014
COPYRIGHT: SHEET TITLE

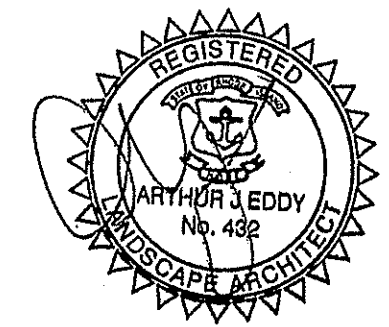
LANDSCAPE DETAILS-10

LD10.0

CONSULTANTS



PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
10 LINCOLN ROAD, SUITE 103
FOXBORO, MA 01505
508-943-1755



OWNER

JOHNSTON HIGH SCHOOL FIELD RENOVATIONS
345 CHERRY HILL ROAD
JOHNSTON, RI
ASSESSOR'S PLAT 47 LOT 9

APPROVED FOR CONSTRUCTION
AUG 14 2014
Office of Water Resources

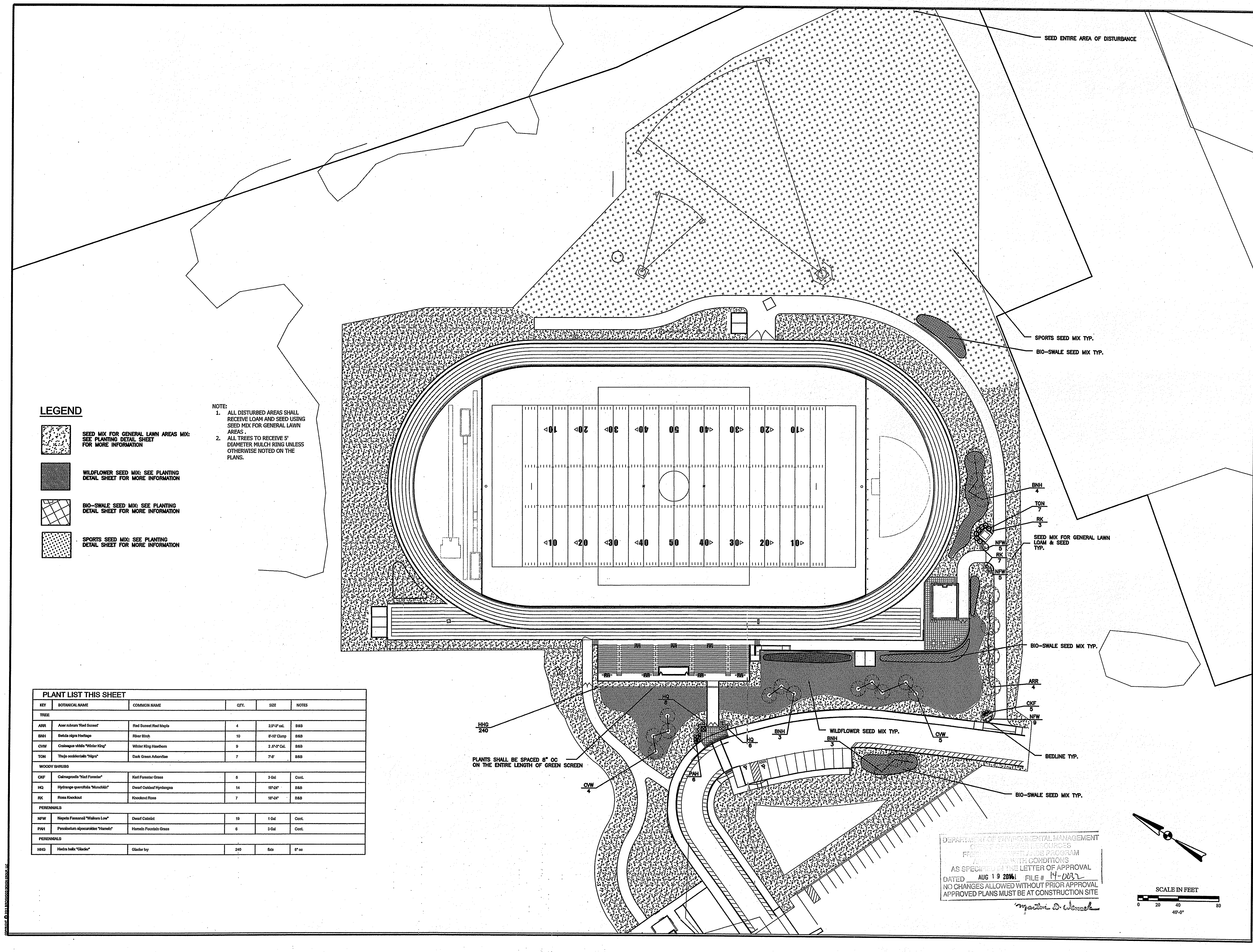
BID DOCUMENTS

MARK	DATE	DESCRIPTION

PROJECT NO: NP-1033
SCALE: 1"=40'-0"
DRAWN BY: AI
CHK'D BY: AE
DATE: MARCH 27, 2014
COPYRIGHT:
SHEET TITLE

LANDSCAPE PLAN

LP6.1



LEGEND

- SEED MIX FOR GENERAL LAWN AREAS MIX: SEE PLANTING DETAIL SHEET FOR MORE INFORMATION
- WILDFLOWER SEED MIX: SEE PLANTING DETAIL SHEET FOR MORE INFORMATION
- BIO-SWALE SEED MIX: SEE PLANTING DETAIL SHEET FOR MORE INFORMATION
- SPORTS SEED MIX: SEE PLANTING DETAIL SHEET FOR MORE INFORMATION

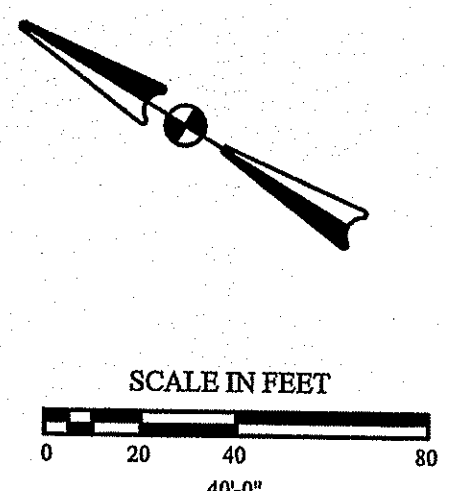
NOTE:
1. ALL DISTURBED AREAS SHALL RECEIVE LOAM AND SEED USING SEED MIX FOR GENERAL LAWN AREAS.
2. ALL TREES TO RECEIVE 5' DIAMETER MULCH RING UNLESS OTHERWISE NOTED ON THE PLANS.

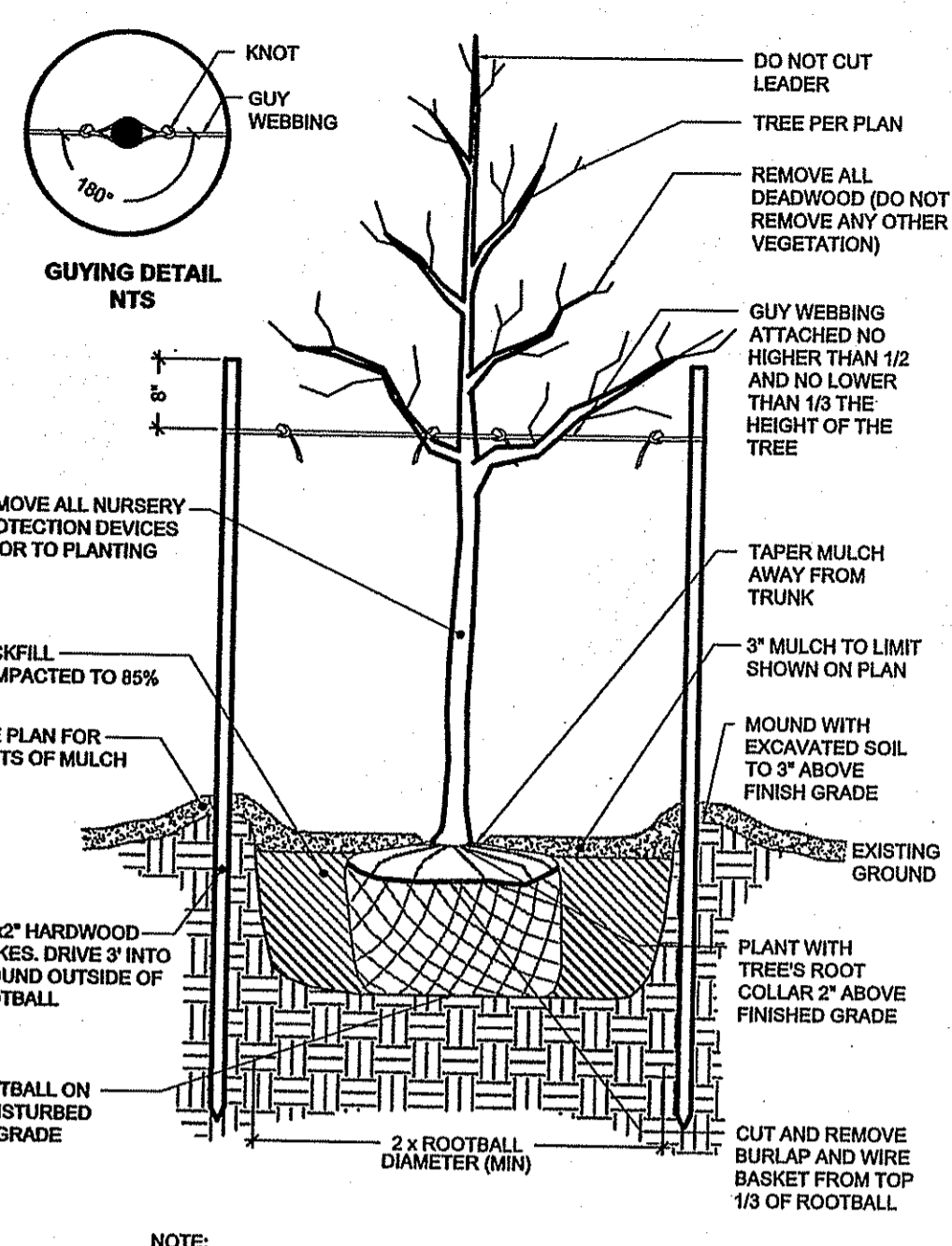
PLANT LIST THIS SHEET

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	NOTES
TREE					
ARR	Acer rubrum "Red Sunset"	Red Sunset Red Maple	4	2.5"-3" cal.	B&B
BNH	Betula nigra Heritage	River Birch	10	8"-10" Clump	B&B
CVW	Crataegus villosa "Winter King"	Winter King Hawthorn	9	2.5"-3" Cal.	B&B
TON	Thuja occidentalis "Nipis"	Dark Green Arborvitae	7	7'-8'	B&B
WOODY SHRUBS					
CKF	Calamagrostis "Karl Foerster"	Karl Foerster Grass	6	3 Gal	Cont.
HQ	Hydrangea quercifolia "Munchkin"	Dwarf Oakleaf Hydrangea	14	18"-24"	B&B
RK	Rosa Knockout	Woodcut Rose	7	18"-24"	B&B
PERENNIALS					
NFW	Nepeta Fassenoli "Walkers Low"	Dwarf Catmint	10	1 Gal	Cont.
PAH	Pennisetum alopecuroides "Hamlet"	Hamlet Fountain Grass	6	3 Gal	Cont.
PERENNIALS					
HHG	Hedera helix "Glacier"	Glacier Ivy	240	5/8"	8' oc

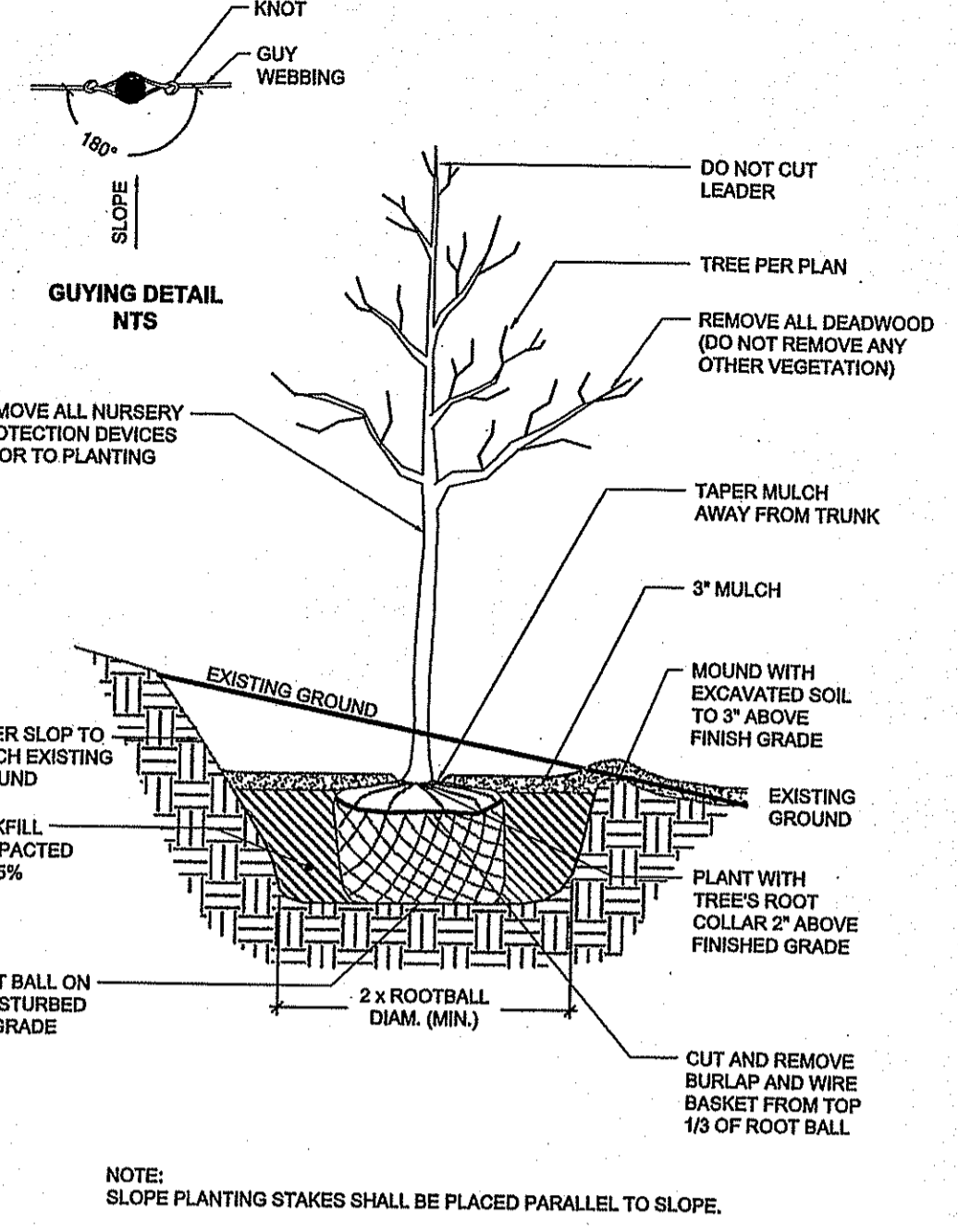
PLANTS SHALL BE SPACED 8" OC ON THE ENTIRE LENGTH OF GREEN SCREEN

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF OPEN SPACE RESOURCES
FRIENDLY WITH A&AS PROGRAM
7/1/2014 WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED AUG 19 2014 FILE # 14-003
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Jonathan D. W...

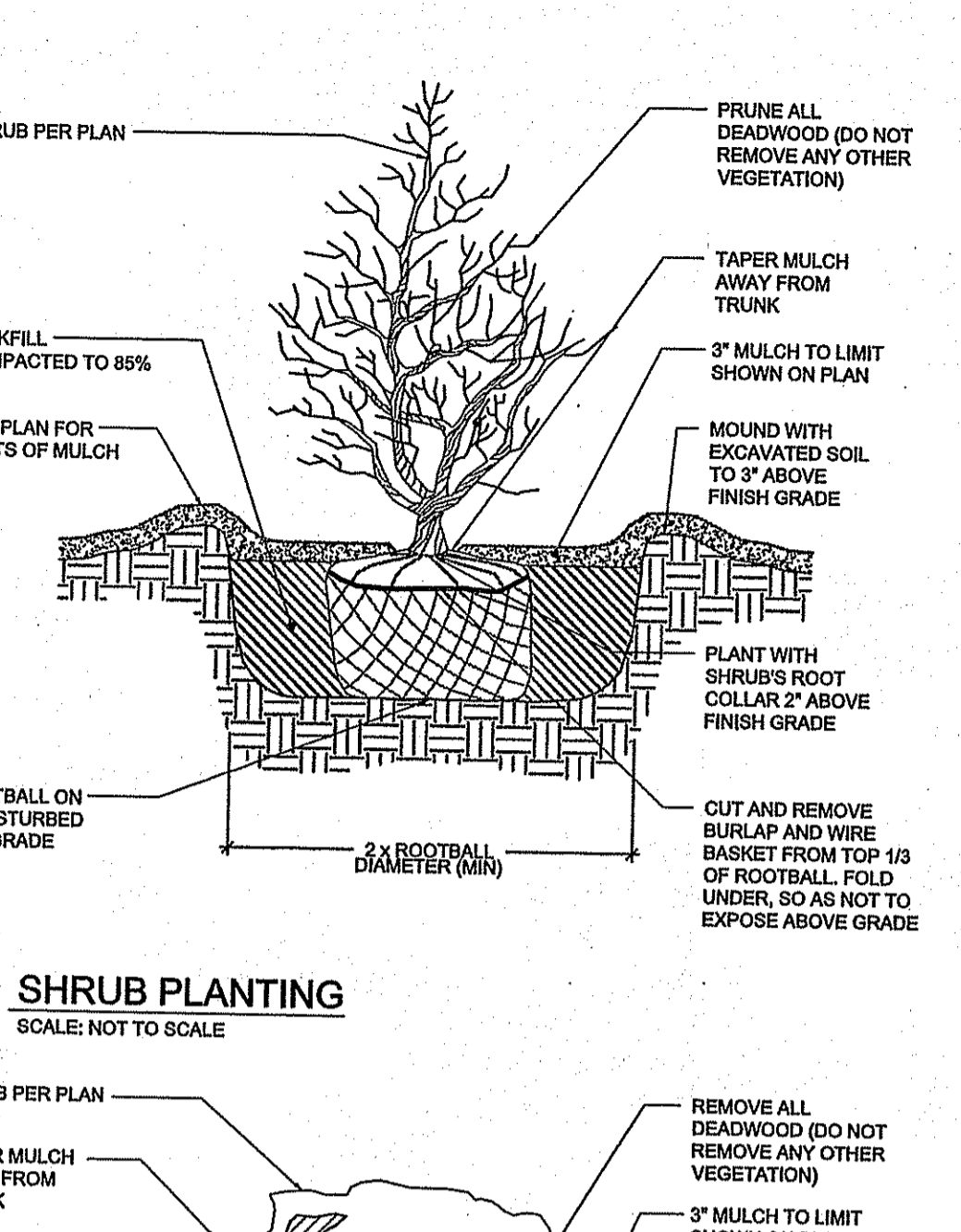




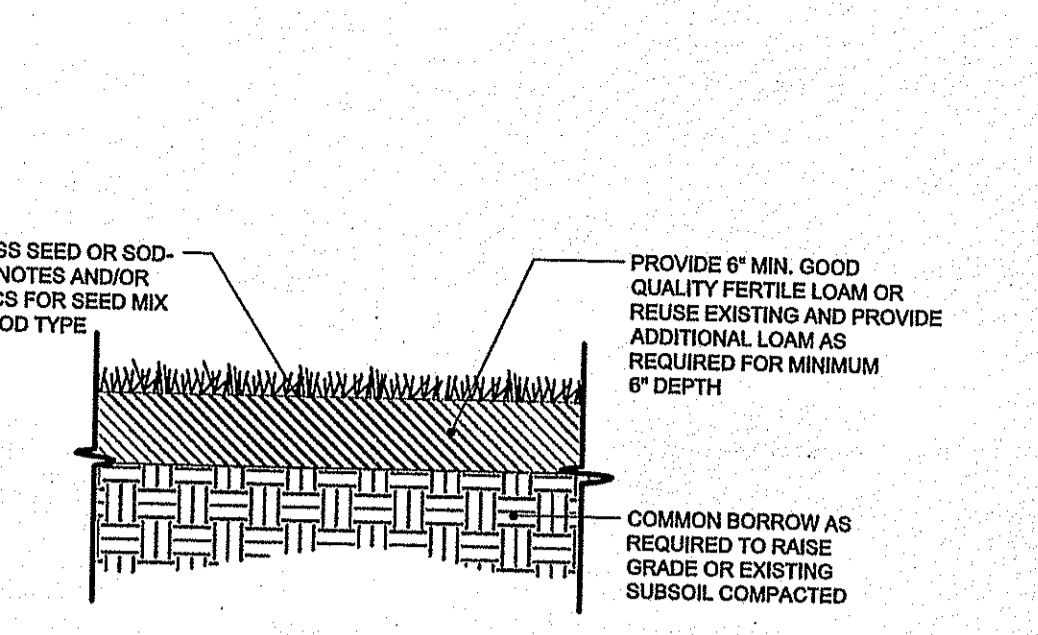
DECIDUOUS TREE STAKING & PLANTING
SCALE: NOT TO SCALE



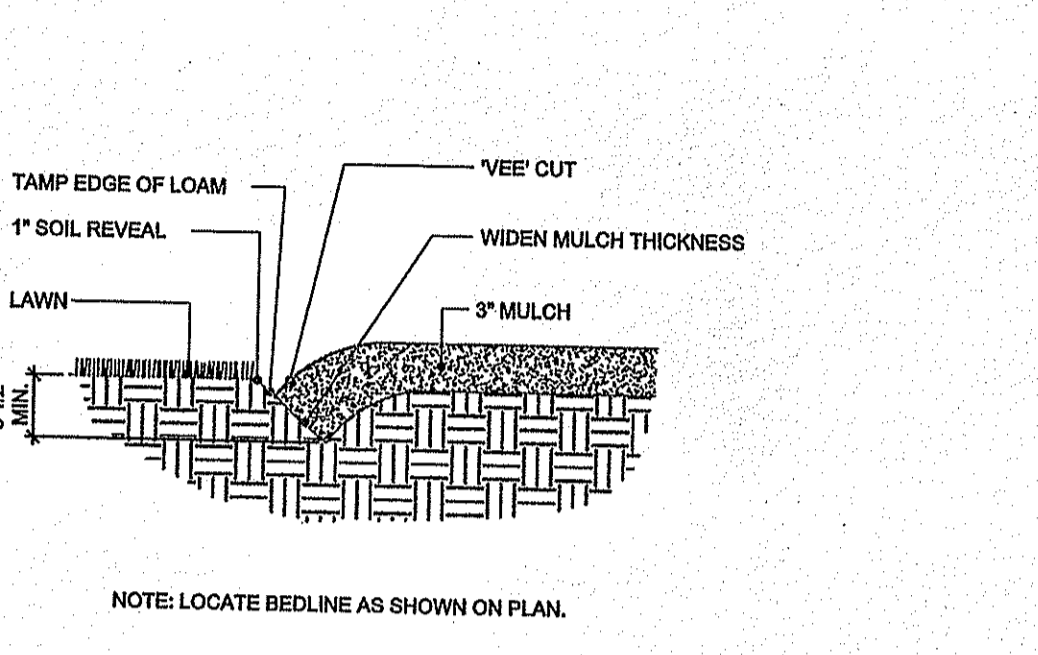
DECIDUOUS TREE PLANTING ON SLOPE
SCALE: NOT TO SCALE



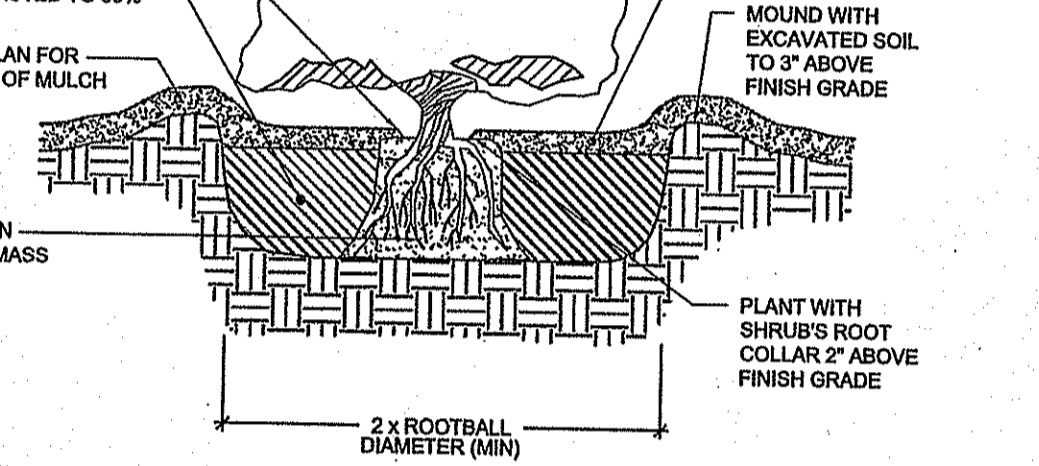
SHRUB PLANTING
SCALE: NOT TO SCALE



LOAM AND SEED OR LOAM AND SOD
SCALE: NOT TO SCALE



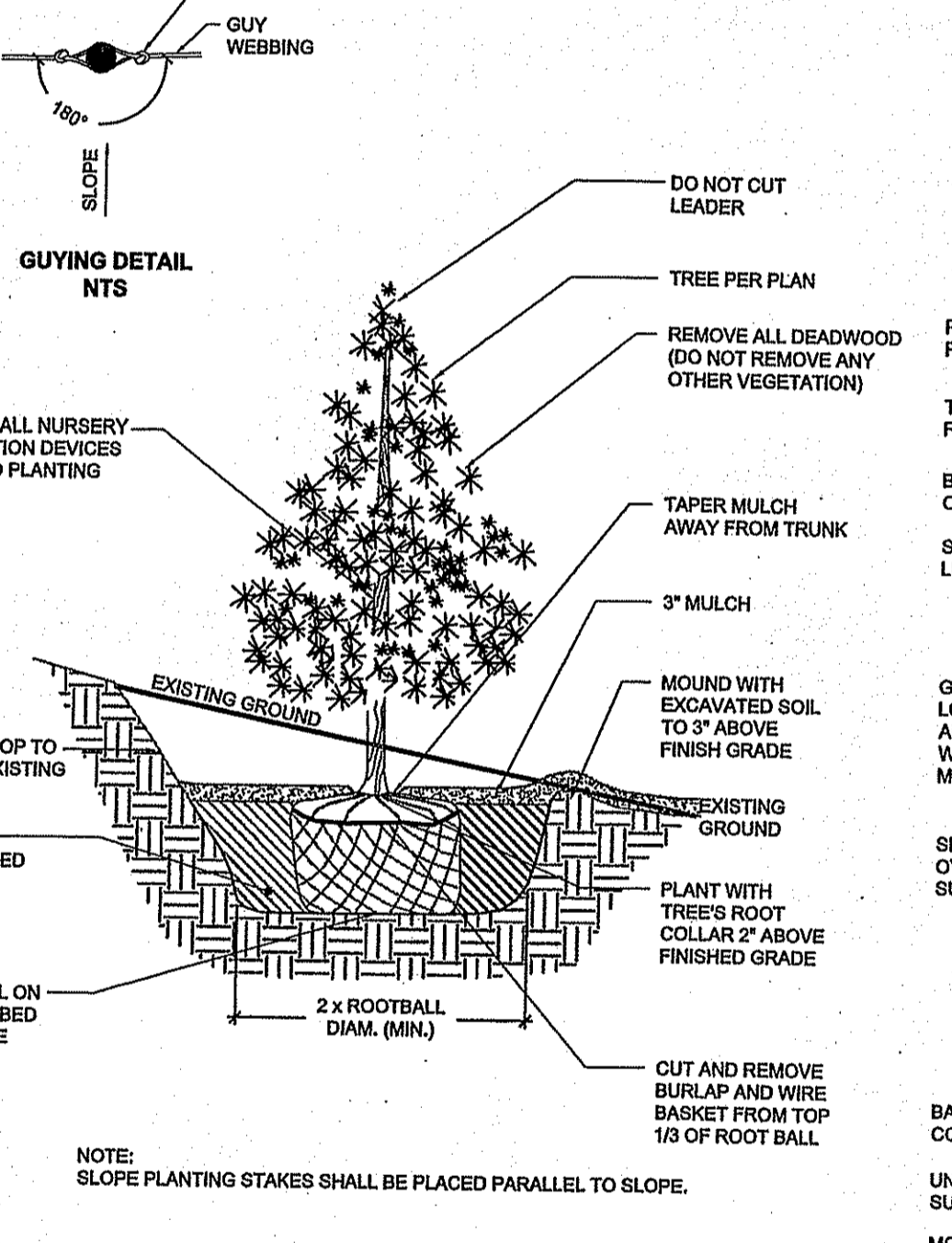
BEDLINE EDGE
SCALE: NOT TO SCALE



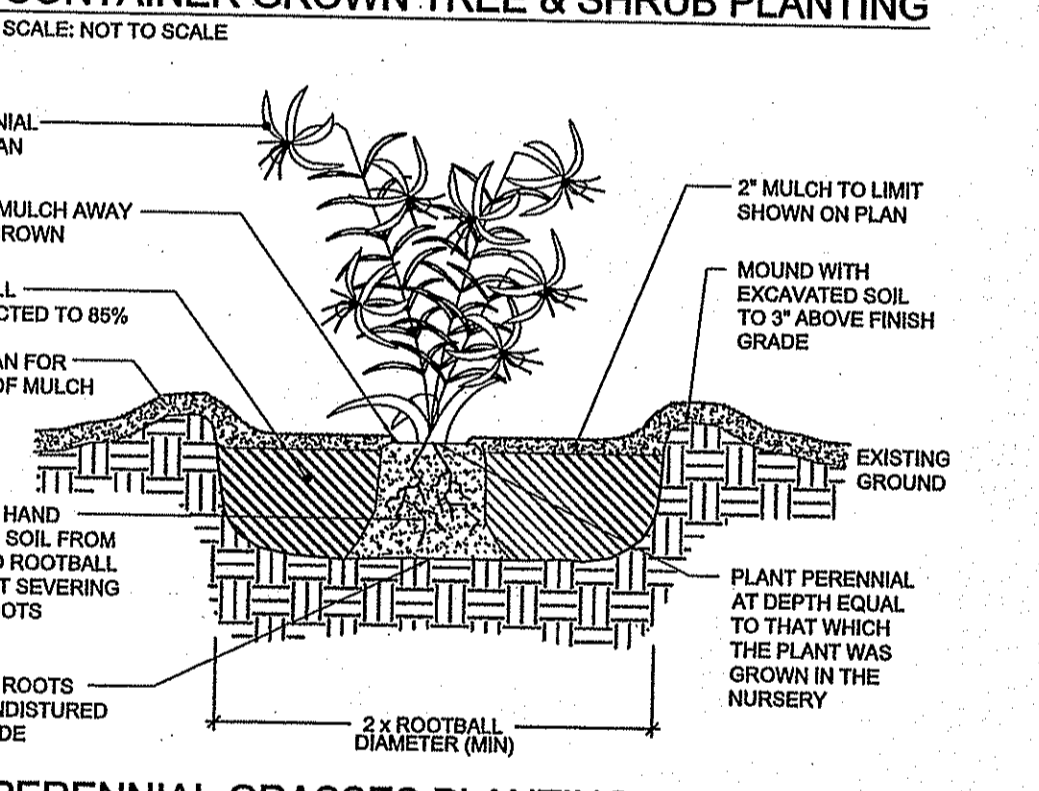
CONTAINER GROWN TREE & SHRUB PLANTING
SCALE: NOT TO SCALE



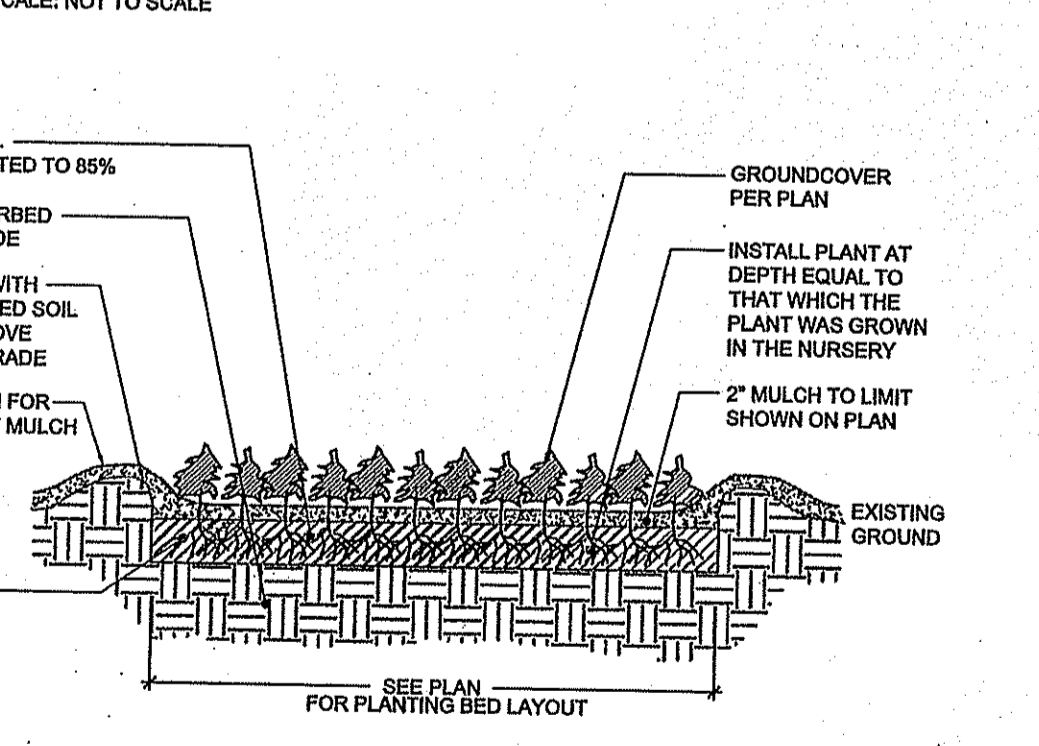
EVERGREEN TREE STAKING & PLANTING
SCALE: NOT TO SCALE



EVERGREEN TREE PLANTING ON SLOPE
SCALE: NOT TO SCALE



PERENNIAL GRASSES PLANTING
SCALE: NOT TO SCALE



GROUNDCOVER PLANTING
SCALE: NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FREEDOM OF INFORMATION PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED AUG 19 2014 FILE # 14-0032
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

12. Protection of Existing Plantings: Maximum effort should be made to save tree or other plant specimens which are large for their species, rare to the area, or of special horticultural or landscape value. Contact owner/landscape architect 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.

13. Pruning: The contractor shall carefully prune branches in the way of construction by using only approved methods and tools. The use of axes for trimming or spurs for climbing will not be permitted.

14. Existing Utilities: In accordance with Dig-Safe law (1-800-225-4977), the contractor shall contact all applicable utility companies and verify utility line locations. The contractor shall be solely responsible for any/all utility line damage. Record locations of Dig-Safe utility line markings on project record documents.

15. Disturbed Areas: Any areas disturbed during the course of construction are to be restored to original (or better) condition by contractor before completion of the project, and are subject to approval by landscape architect and owner. All grass areas disturbed during construction shall be yolk raked to remove stones and loamed and seeded as per specifications.

16. Drainage Systems: Contractor is responsible for general clean-out of all catch basins, manholes, and/or other drainage features on the site which have accumulated sediment as a result of construction activities.

17. Cleaning: Contractor is responsible for keeping site clean of miscellaneous debris throughout the construction period. All waste material is to be disposed of immediately to an off-site location, unless otherwise indicated on the plan.

- GENERAL NOTES:
- All plant material must be tagged in the ground, at the nursery by the Landscape Architect. All plant material shall be commercially obtained and shall meet the American Association of Nurseryman standards for nursery stock, latest edition, and its amendments. Plant only during season normal to the particular variety. All plant inspections will be at the expense of the contractor. Permanent seals will be required.
 - Cover all planting beds with 3" shredded hardwood bark mulch within a seventy-two hour period after planting. See plan for bed layout.
 - All existing and proposed trees shown in lawn areas shall receive a 6' diameter mulch bed. Mulch shall be placed to a depth of 3". Remove all sod, roots, sticks and stones prior to placement of mulch.
 - All plant materials furnished by the contractor shall be guaranteed for a period of one year from final acceptance of landscape work.
 - Stake all trees over 5' as shown on details. Remove stakes at the end of the guarantee period.
 - The contractor is responsible for keeping the site clean of miscellaneous debris throughout the construction period. All waste material is to be disposed of immediately to an off-site location, unless otherwise indicated on the plans.
 - The contractor shall perform all work in accordance with all local, state, and federal regulations, and shall obtain all necessary permits for this project.
 - Layout: All notes and dimensions are typical unless otherwise noted. All dimensions are square (parallel or perpendicular) unless otherwise noted. The contractor shall notify the owner/owner's representative immediately in the event of any discrepancies found in the contract documents and/or in the field, or of conditions uncovered in the work which are not reflected in the plans.
 - Loam: Loam moved during the course of construction shall be retained and distributed within the site in accordance with the landscape plan. All excess loam shall remain on the property of the owner. New loam if required to provide the specified depth, shall be a fertile, friable medium textured sandy loam free of material toxic to healthy plant growth. Loam shall also be free of all stumps, roots, stones and other extraneous matter an inch (1") or greater in diameter. The PH shall be between 5.5 and 7.5 when tested.
 - Lawn Preparation: Remove all debris and other inorganic materials on the prepared subgrade, reshape and dress any damaged or eroded area prior to spreading the loam. Scarify and loosen subgrade in any areas where compaction may have occurred. Spread stockpiled and off-site loam on all disturbed areas to produce a depth of 6". Fine grade loamed areas to produce a smooth and unbroken finish grade to the required depth. Apply a starter fertilizer (10-20-10) at a rate of 20 lbs. per 1000 square feet and lime at a rate of 40 lbs. per 1000 square feet. Once spread, the fertilizer and lime shall be thoroughly incorporated into the loam. The loam shall be rolled, and depression shall be top dressed and raked to create a smooth surface.
 - Seeding: Seeding shall take place between March 15 and May 31 or August 15 and October 15 only. Seed shall be pure, live, fresh seed from commercial sources meeting and labeled in accordance with State and Federal rules and regulations. The seed mixture shall be:

SEED MIX FOR GENERAL LAWN SEEDING:			
Proportion by Type	Weight	Pur.	Germin.
Palmer Perennial Ryegrass	20.0%	99%	90%
Ranger Perennial Ryegrass	20.0%	99%	90%
Baron Kentucky Bluegrass	30.0%	95%	85%
Merion Kentucky Bluegrass	30.0%	95%	85%
Inert Materials 2.5% (maximum)			

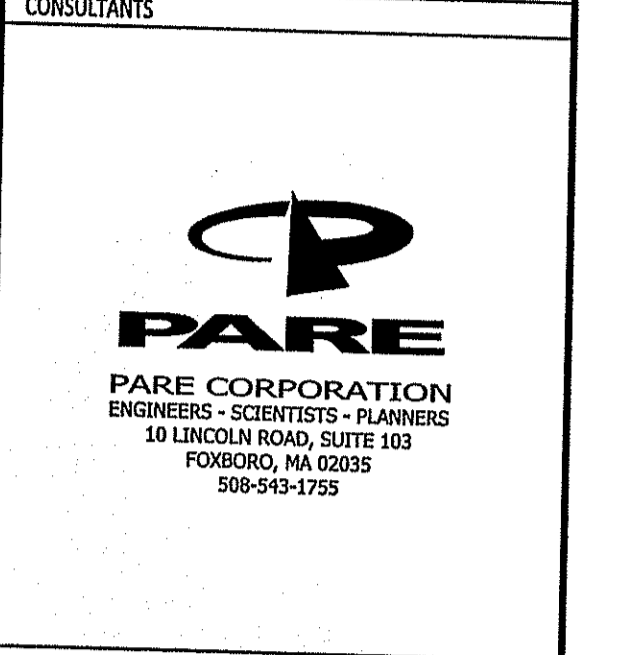
Seeded areas shall, at a minimum, include all areas of the site that have been disturbed or are barren unless otherwise noted on the plans. Seed shall be applied at a rate of 7 lbs. per 1000 square feet.

WILDFLOWER SEED MIX: Shall be in accordance with New England Wetland Plants "Wildflower Seed Mix".

BIO-SWALE SEED MIX: Shall be in accordance with New England Wetland Plants "New England Wet Mix".

SPORTS SEED MIX:			
Proportion by Type	Weight	Pur.	Germin.
Improved Perennial Ryegrass	30.0%	99%	90%
Improved Kentucky Bluegrass CGT	25.0%	99%	90%
Improved Kentucky Bluegrass CBT	25.0%	99%	90%
Chewing Fescue	20.0%	99%	90%

Sowing Rate: 4 to 6 pounds per 1,000 sq.ft.
Overseed Sowing Rate: 2 to 3 pounds for 1,000 sq. ft.



OWNER
JOHNSTON HIGH SCHOOL FIELD RENOVATIONS
345 CHERRY HILL ROAD
JOHNSTON, RI
ASSESSOR'S PLAT 47 LOT 9

Environmental Management
AUG 14 2014
Office of Water Resources

BID DOCUMENTS

MARK	DATE	DESCRIPTION

PROJECT NO: NP-1033
SCALE: N/A
DRAWN BY: AI
CHKD BY: AE
DATE: MARCH 27, 2014
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SHEET TITLE

LANDSCAPE DETAILS

LP6.2