

ATHLETIC FIELDS DRAINAGE IMPROVEMENTS

MT. HOPE HIGH SCHOOL

A.P. 117 Lots 4, 5, 6, & 10

199 Chestnut Street

BRISTOL, RHODE ISLAND

OWNER/APPLICANT:

Town of Bristol
10 Court Street
Bristol, RI 02809
(401) 253-7000

Bristol Warren Regional School District
151 State Street
Bristol, RI 02809
(401) 253-4000

CIVIL ENGINEER:



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



SCALE: N.T.S.

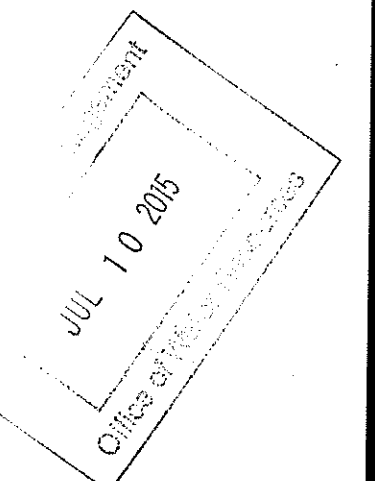
APPLICATION FOR PERMIT MODIFICATION SUBMISSION
RIDEM FRESHWATER WETLAND PERMIT APPLICATION NO. 10-0119
JULY 9, 2015

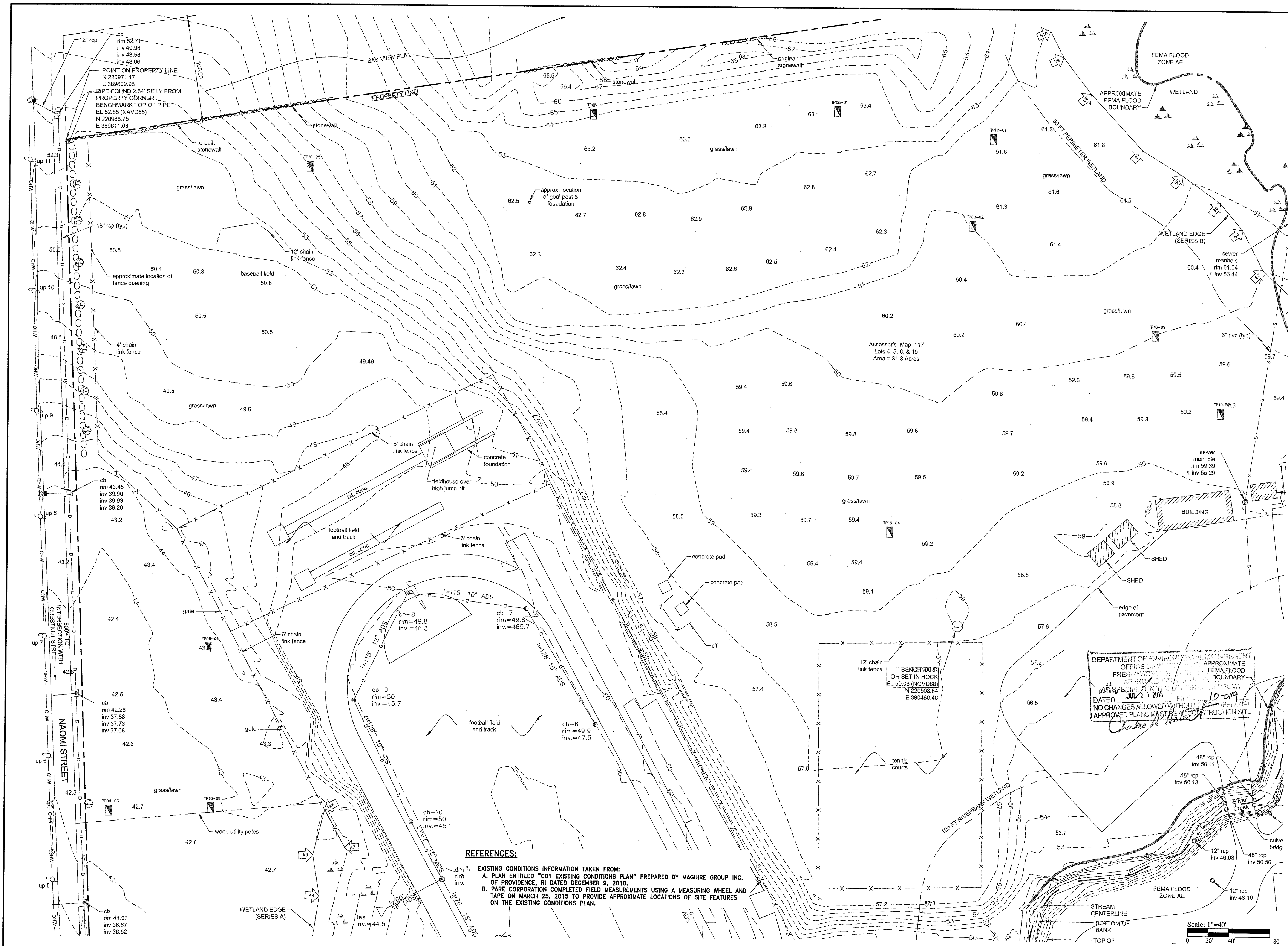
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER PROTECTION
FRESHWATER WETLAND PERMITS
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 31 2015 FILE # 10-0119
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

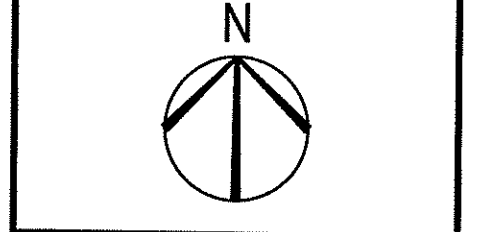
Charles D. Hackett





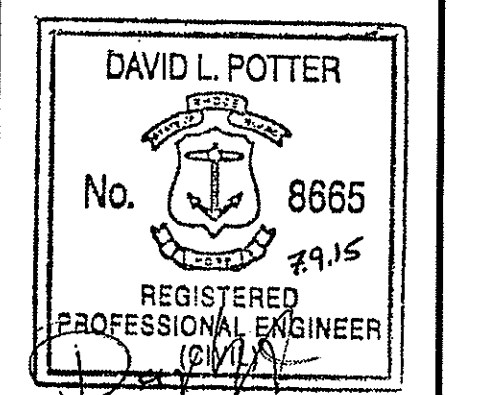
Owner/Applicant
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10 COURT STREET
BRISTOL, RI 02809
(401) 253-7000

BRISTOL WARREN REGIONAL SCHOOL DISTRICT
151 STATE STREET
BRISTOL, RI 02809
(401) 253-4000



Athletic Fields Drainage Improvements Mt. Hope High School

A.P. 117 Lots 4, 5, 6, & 10
199 Chestnut Street Bristol, Rhode Island



REVISIONS:

NO.	DATE	DESCRIPTION
1	JUL 14 2015	ISSUED FOR PERMIT

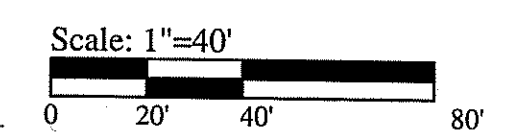
PROJECT NO.: 14234.00
DATE: JULY 9, 2015
SCALE: 1"=40'
DESIGNED BY: RJS
CHECKED BY: DLP
DRAWN BY: AKL
APPROVED BY: JPS
DRAWING TITLE:

EXISTING CONDITIONS PLAN
DRAWING NO.: C0.1
SHEET NO. 1 OF 15

REFERENCES:

1. EXISTING CONDITIONS INFORMATION TAKEN FROM:
A. PLAN ENTITLED "C01 EXISTING CONDITIONS PLAN" PREPARED BY MAGUIRE GROUP INC. OF PROVIDENCE, RI DATED DECEMBER 9, 2010.
B. PARE CORPORATION COMPLETED FIELD MEASUREMENTS USING A MEASURING WHEEL AND TAPE ON MARCH 25, 2015 TO PROVIDE APPROXIMATE LOCATIONS OF SITE FEATURES ON THE EXISTING CONDITIONS PLAN.

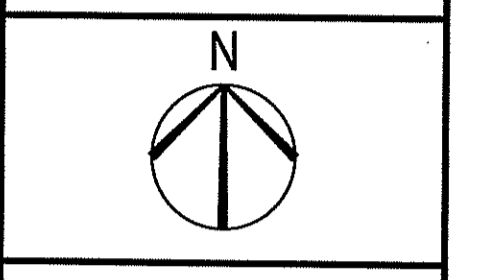
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER QUALITY
FRESHWATER PERMITS DIVISION
APPROVED APPROXIMATE FEMA FLOOD BOUNDARY
BY: [Signature]
DATE: JUL 31 2015
NO CHANGES ALLOWED WITHOUT PERMIT APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE





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Athletic Fields Drainage Improvements
Mt. Hope High School
A.P. 117 Lots 4, 5, 6, & 10
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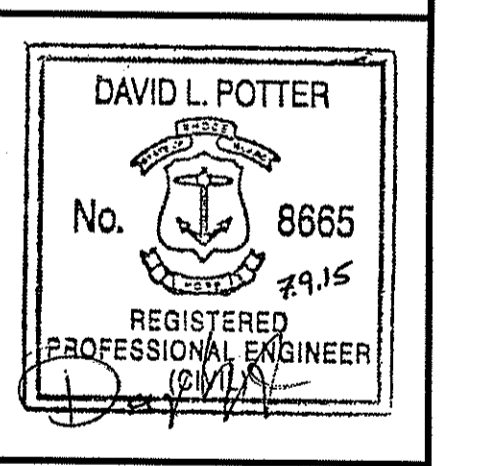


Table with project details: PROJECT NO. 14234.00, DATE: JULY 9, 2015, SCALE: NOT TO SCALE, DESIGNED BY: RUS, CHECKED BY: DLP, DRAWN BY: AKL, APPROVED BY: JPS, DRAWING TITLE: NOTES & LEGEND, DRAWING NO.: C1.1, SHEET NO. 2 OF 15

EROSION AND SEDIMENT CONTROL NOTES

- 1. EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE PROVISIONS OF THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL HANDBOOK AND RHODE ISLAND DEPARTMENT OF TRANSPORTATION... 2. PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES, A CONTINUOUS UNINTERRUPTED LINE OF STAKED COMPOST FILTER SOCK... 3. UNTIL VEGETATIVE COVER IS ESTABLISHED AND DISTURBED AREAS ARE STABILIZED, ACCUMULATED SEDIMENTS SHALL BE REMOVED AS SOON AS SEDIMENTS HAVE ACCUMULATED TO A DEPTH OF SIX (6) INCHES... 4. THE CONTRACTOR SHALL INSPECT THE EROSION CONTROL MEASURES ON A WEEKLY BASIS DURING CONSTRUCTION AND AFTER STORMS OF GREATER THAN OR EQUAL TO 1" IN A 24 HOUR PERIOD... 5. THE LIMITS OF ALL CLEARING, GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION... 6. A STONE STABILIZATION PAD IS LOCATED AT THE SITE ENTRANCE TO REDUCE THE TRACKING OR FLOWING OF SEDIMENT ONTO THE PUBLIC RIGHT OF WAY... 7. THE ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR. THE MAINTENANCE SHALL INCLUDE TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND OR AS DIRECTED BY THE ENGINEER... 8. AREAS BEYOND THE STAKED LIMITS OF DISTURBANCE SHALL BE TOTALLY UNDISTURBED... 9. PIPE INLETS AND OUTFALLS SHALL BE PROTECTED BY COMPOST FILTER SOCK UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED WITH VEGETATION... 10. DENUDE SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED IN AREAS WHERE WORK IS TO CEASE FOR A PERIOD OF 14 DAYS OR GREATER AND WILL NOT RESUME WITHIN 21 DAYS OR DURING THE INACTIVE WINTER SEASON... 11. SOIL STOCKPILES AND DEPOSITION AREAS FOR CONSTRUCTION MATERIALS SHALL BE LOCATED OUTSIDE WETLAND AREAS AND ASSOCIATED BUFFERS AND SHALL BE SURROUNDED BY A DOUBLE ROW OF STAKED COMPOST FILTER SOCK... 12. TEMPORARY TREATMENTS SHALL BE USED TO PROTECT BARE AREAS AND STOCKPILES FROM EROSION DURING CONSTRUCTION... 13. TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING... 14. AS SOON AS WEATHER PERMITS AFTER THE COMPLETION OF FINE GRADING, ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITH PLACEMENT OF THE MODIFIED TOP SOIL AND THE SPECIFIED GRASS SEED MIXTURE... 15. THE PERMANENT SEED DESIGN MIX FOR UPLAND SOILS SHALL BE: RED FESCUE 70%, KENTUCKY BLUEGRASS 15%, COLONIAL BENTGRASS 5%, PERENNIAL RYEGRASS 10%... 16. THE APPLICATION RATE IS A TOTAL OF 100 LBS./ACRE... 17. PERMANENT SEEDING DATES SHALL BE AS FOLLOWS: APRIL 1 - JUNE 13, AUGUST 15 - OCTOBER 15... 18. THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS, BEFORE MIXING AND PLANTING WITH APPROPRIATE INOCULUM FOR EACH VARIETY... 19. TEMPORARY VEGETATION GRASS SHALL BE USED TO PROTECT STOCKPILES FROM WIND EROSION... 20. STOCKPILES SHALL NOT BE LOCATED NEAR WATERWAYS... 21. ALL GRASS PLANTED AREAS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL THE COMPLETION OF THE CONSTRUCTION AND ACCEPTANCE BY THE BRISTOL-WARREN REGIONAL SCHOOL DISTRICT... 22. ALL DISTURBED AREAS WITHIN THE PROJECT WILL RECEIVE PERMANENT VEGETATION... 23. THE PROPOSED DRAINAGE BASINS SHALL ACT AS SEDIMENTATION BASINS DURING CONSTRUCTION... 24. THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY OF MAINTAINING THE EROSION CONTROL MEASURES AND THE DRAINAGE SYSTEM DURING CONSTRUCTION AND UP TO ACCEPTANCE BY THE BRISTOL-WARREN REGIONAL SCHOOL DISTRICT... 25. THE BRISTOL-WARREN REGIONAL SCHOOL DISTRICT WILL BE RESPONSIBLE FOR THE MAINTENANCE OF THE DRAINAGE SYSTEM AND OUTFALL AFTER ACCEPTANCE.

GENERAL NOTES

- 1. REFERENCE IS MADE TO THE RIDOT 2004 "STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AND RIDOT 2008 "STANDARD DETAILS" ALL PROJECT SITE IMPROVEMENTS SHALL CONFORM TO THESE REGULATIONS AND THE SUB-REFERENCES INCORPORATED THEREIN, LATEST REVISION... 2. THE CONTRACTOR SHALL MAKE APPLICATION FOR AND PAY ALL FEES FOR ANY/ALL OTHER PERMITS REQUIRED BY THE STATE OF RHODE ISLAND... 3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED PLANS AND MATERIALS, STANDARD AND SPECIAL DETAILS, INVITATION TO BID, AND STANDARD SPECIFICATIONS... 4. CONSTRUCTION WILL BE SUBJECT TO INSPECTION BY THE BRISTOL WARREN REGIONAL SCHOOL DISTRICT... 5. THE OWNER SHALL BE IMMEDIATELY NOTIFIED OF ANY DIRECTION RECEIVED FROM UTILITY COMPANIES, STATE OR TOWN EMPLOYEES WHICH COULD AFFECT THE QUALITY OR COST OF WORK... 6. THE CONTRACTOR SHALL MAINTAIN IN THE FIELD UP-TO-DATE AS-BUILT DRAWINGS OF ALL GRADING, DRAINAGE, AND ALL OTHER WORK... 7. EXISTING UTILITIES HAVE BEEN PLOTTED FROM BEST AVAILABLE DATA AND ARE APPROXIMATE ONLY... 8. LOCATIONS AND DEPTHS OF EXISTING UNDERGROUND PIPES, CONDUITS, AND STRUCTURES, AS SHOWN, ARE APPROXIMATE ONLY... 9. THE CONTRACTOR SHALL MAINTAIN ALL EXCAVATION IN A DRY CONDITION... 10. ALL GRASSED AREAS DISTURBED BY THE CONTRACTOR SHALL BE LOAMED AND SEEDDED OR SODDED IF SO DIRECTED... 11. ALL EXISTING PAVEMENT DISTURBED SHALL BE IMMEDIATELY REPAIRED WITH TEMPORARY PAVEMENT... 12. ALL EXISTING CURBING, SIDEWALK AND OTHER PAVEMENT DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE REPLACED AND RESTORED, IN KIND... 13. CONTRACTOR SHALL INSTALL AND MAINTAIN SHEETING AND BRACING OR OTHER SUITABLE TRENCH PROTECTION AS NECESSARY TO PROTECT WORKMEN AND THE PUBLIC ON OR NEAR THE SITE... 14. CONTINUOUS DUST CONTROL, USING CALCIUM CHLORIDE OR OTHER APPROVED METHODS, SHALL BE PROVIDED FOR ALL EARTH STOCKPILES... 15. AT COMPLETION OF THE UTILITIES INSTALLATION, THE DRAIN LINES SHALL BE CLEANED OF ALL SILT GENERATED FROM THE CONSTRUCTION ACTIVITIES... 16. WETLAND BOUNDARIES WERE DELINEATED BY THE GIFFORD DESIGN GROUP, INC... 17. SURVEYS PROVIDED IN THE DRAWINGS SHALL BE ASSUMED TO ACCURATELY REPRESENT THE EXISTING GROUND SURFACE... 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING INCLUDING LAYOUT OF WORK, HORIZONTAL AND VERTICAL CONTROL, MATERIAL TESTING, AND SHOP DRAWINGS... 19. THE CONTRACTOR SHALL GIVE NOTICES AND COMPLY WITH ALL PERMITS, LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN AND SPECIFIED... 20. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL... 21. THE BRISTOL-WARREN REGIONAL SCHOOL DISTRICT SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE DRAINAGE SYSTEM AFTER CONSTRUCTION IS COMPLETED AND ACCEPTED BY THE TOWN... 22. THE DRAINAGE BASINS, OUTLET CONTROL STRUCTURE AND CATCH BASINS SHALL BE INSPECTED MONTHLY AND AFTER STORM EVENTS OF GREATER THAN 1" OF RAIN WITHIN A 24 HOUR PERIOD... 23. A BRIEF REPORT OF FINDINGS SHALL BE PREPARED AND ANY DEFICIENCIES SHALL BE REPORTED TO THE RI DEM... 24. ROUTINE SCHEDULED MAINTENANCE SHALL BE AS NOTED IN THE MAINTENANCE REQUIREMENTS... 25. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY... 26. ANY AREA OUTSIDE OF THE LIMIT OF DISTURBANCE THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER... 27. ALL SITE WORK SHALL MEET OR EXCEED THE SITE WORK SPECIFICATIONS PREPARED FOR THIS PROJECT... 28. EXCAVATED ROCK SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF UNLESS OTHER ARRANGEMENTS ARE MADE WITH THE OWNER... 29. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES AS SHOWN ON THE PLANS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

REFERENCES

- 1. EXISTING CONDITIONS INFORMATION TAKEN FROM: A. PLAN ENTITLED "001 EXISTING CONDITIONS PLAN" PREPARED BY MAQUIRE GROUP INC. OF PROVIDENCE, RI DATED DECEMBER 9, 2010... B. PARE CORPORATION COMPLETED FIELD MEASUREMENTS USING A MEASURING WHEEL AND TAPE ON MARCH 25, 2015 TO PROVIDE APPROXIMATE LOCATIONS OF SITE FEATURES ON THE EXISTING CONDITIONS PLAN... 2. UNDERGROUND UTILITIES WERE COMPILED FROM AVAILABLE RECORD PLANS AND ABOVE GROUND LOCATIONS... 3. COMMENCING ANY SITE WORK ACTIVITIES CONTACT "DIG SAFE" AT 1-888-DIG-SAFE AND OWNER. CONTRACTOR IS RESPONSIBLE TO VERIFY LOCATIONS OF UTILITIES THAT ARE NOT LOCATED BY "DIG SAFE"...

DEMOLITION NOTES

- 1. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION OF STRUCTURES, PAVEMENT AND CONCRETE MATERIALS, AND UTILITIES WITH APPROPRIATE PROPOSED SITE GENERAL, UTILITY, AND LANDSCAPING DRAWINGS... 2. ALL NOTED UTILITIES TO BE REMOVED AND DISPOSED OF, RELOCATED OR CAPPED REPRESENT ALL KNOWN SITE CONDITIONS TO BE DEMOLISHED... 3. THERE SHALL BE NO INTERRUPTION OF UTILITY SERVICE DURING THE CONSTRUCTION OPERATION WITHOUT THE APPROVAL OF THE OWNER... 4. WATER, SEWER, DRAINAGE AND OTHER SITE UTILITIES SERVING THE EXISTING FACILITIES ARE TO REMAIN ACTIVE UNTIL PROPOSED IMPROVEMENTS ARE CONSTRUCTED AND ONLINE...

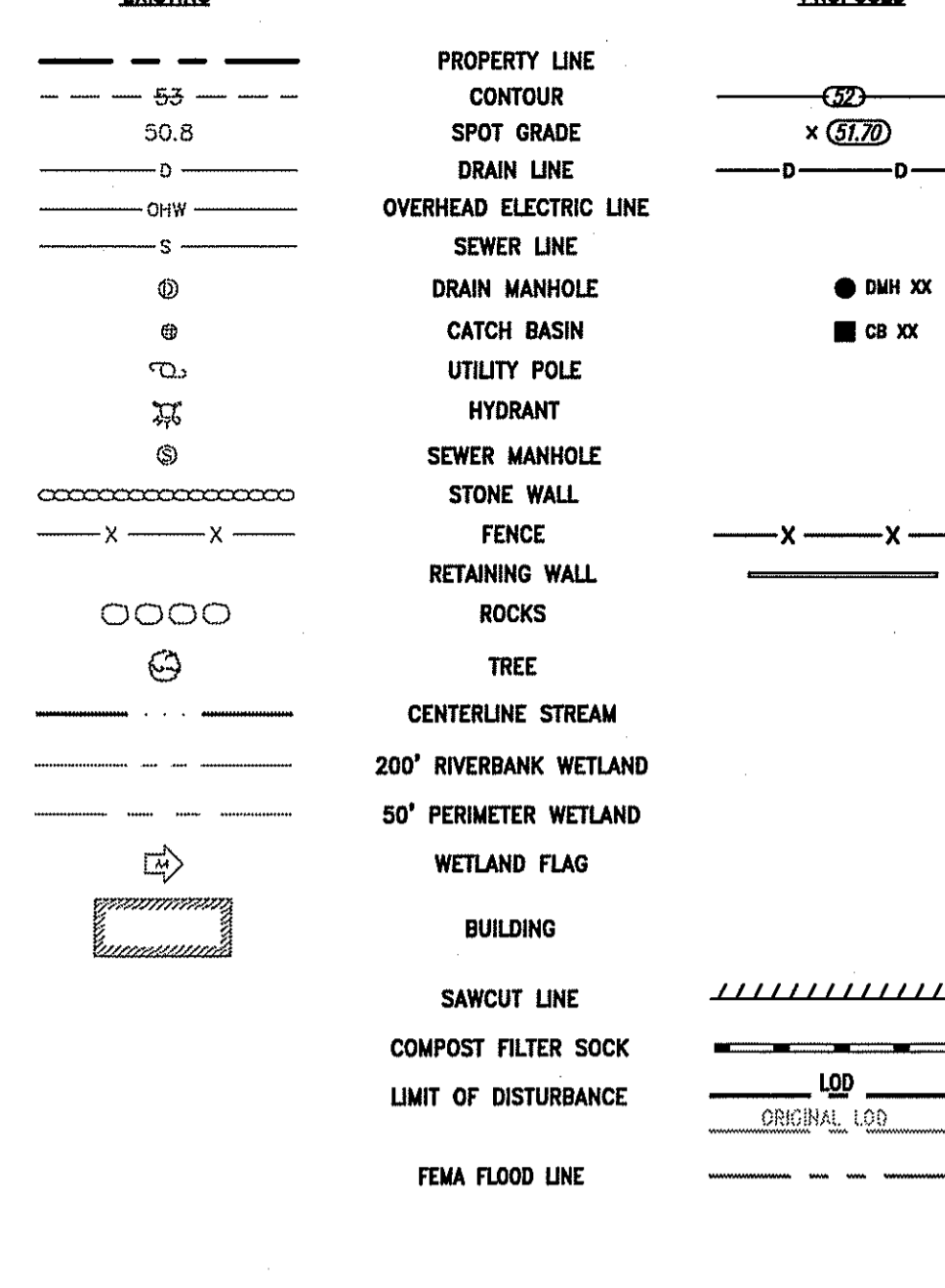
GRADING AND UTILITY NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS... 2. NO FIELD ADJUSTMENTS IN THE LOCATION OF SITE ELEMENTS SHALL BE MADE WITHOUT THE ENGINEER'S APPROVAL... 3. AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUT NEW CONSTRUCTION... 4. ALL UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE FLUSH WITH THE SURROUNDING SURFACE... 5. ALL DRAINAGE PIPES SHALL BE 12" DOUBLE-WALL SMOOTH INTERIOR HIGH DENSITY POLYETHYLENE PIPE... 6. ALL REINFORCED CONCRETE PIPE SHALL BE CLASS III UNLESS NOTED OTHERWISE... 7. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION OF PRIVATE UTILITIES... 8. THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND TEL/DATA DUCT BANKS, ELECTRICAL DUCT BANKS, DRAINAGE, SEWER AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS... 9. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES AND SITE FEATURES... 10. PITCH EVENLY BETWEEN SPOT GRADES... 11. THE PROPOSED WALKWAYS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2%... 12. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL ROCK AND BOULDERS UNCOVERED DURING UTILITY INSTALLATION... 13. THE CONTRACTOR IS RESPONSIBLE FOR ALL EQUIPMENT, MATERIAL, AND LABOR REQUIRED TO CLEAN OUT EXISTING CATCH BASINS AND PIPING PRIOR TO COMMENCING WORK...

ABBREVIATIONS

Table with 4 columns: Abbreviation, Description, Abbreviation, Description. Includes BIT (BITUMINOUS), BS (BOTTOM OF STAIR), BW (BOTTOM OF WALL), CB (CATCH BASIN), CL (CLASS), CND (CONCRETE), CU (COPPER), DEMO (DEMOLITION), DMH (DRAIN MANHOLE), EOP (EDGE OF PAVEMENT), EXIST (EXISTING), EXCB (EXISTING CATCH BASIN), EXDNH (EXISTING DRAIN MANHOLE), FFE (FINISHED FLOOR ELEVATION), FND (FOUND), GRAN (GRANITE), G.T.D (GRADE TO DRAIN), HOPE (HIGH DENSITY POLYETHYLENE PIPE), INV (INVERT), LP (LOW POINT), CONC (CONCRETE), CONCD (CONDENSATE), CU (COPPER), DEMO (DEMOLITION), DMH (DRAIN MANHOLE), EOP (EDGE OF PAVEMENT), EXIST (EXISTING), EXCB (EXISTING CATCH BASIN), RRC (REMOVE & RESET CURB), R=X (RADIUS), SDR (STANDARD DIMENSIONAL RATIO), SMH (SEWER MANHOLE), THH (TELEPHONE HANDHOLE), TMH (TELEPHONE MANHOLE), TSH (TOP OF STAIR), TW (TOP OF WALL), (TYP.) (TYPICAL), VCC (VERTICAL CONCRETE CURB), VGC (VERTICAL GRANITE CURB), W/ (WITH), YDCB (YARD DRAIN), R.I. STD. (RHODE ISLAND STANDARD)

LEGEND



LEGEND

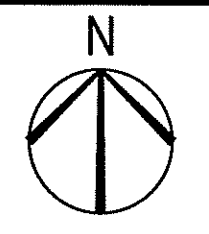
- 2.1.0 CONCRETE HEADWALLS FOR PIPE CULVERTS - R.I. STD. 2.1.0
- 2.3.0 PRECAST CONCRETE FLARED END SECTION - R.I. STD. 2.3.0
- 4.2.0 PRECAST 4'-0" ROUND MANHOLE - R.I. STD. 4.2.0
- 4.2.1 PRECAST 5'-0" ROUND MANHOLE - R.I. STD. 4.2.1
- 4.4.0 PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN - R.I. STD. 4.4.0
- 6.2.1 HEAVY-DUTY ROUND FRAME AND COVER - R.I. STD. 6.2.1
- 6.3.0 SQUARE FRAME AND GRATE - R.I. STD. 6.3.0
- 9.7.0 DEWATERING BASIN - R.I. STD. 9.7.0
- 9.9.0 CONSTRUCTION ENTRANCE - R.I. STD. 9.9.0
- 51.1.1 DRIP LINE TREE PROTECTION DEVICE FOR EXISTING TREES - R.I. STD. 51.1.1
- BCW 5 FT WIDE BITUMINOUS CONCRETE WALK - SEE DETAIL
- R&D REMOVE AND DISPOSE
- R&R REMOVE AND RESET

POST CONSTRUCTION MAINTENANCE REQUIREMENTS FOR THE DRAINAGE FACILITY

Table with 4 columns: Component, Defect, Condition when maintenance is needed to be performed, Result expected when maintenance is performed. Includes sections for Detention Basin, Side Slopes of Pond, Storage Areas, Basin Berms or Dikes, Emergency Overflow/Spillway, Riprap Aprons and Outlet Protection, and Conveyance Pipes & Ditches.

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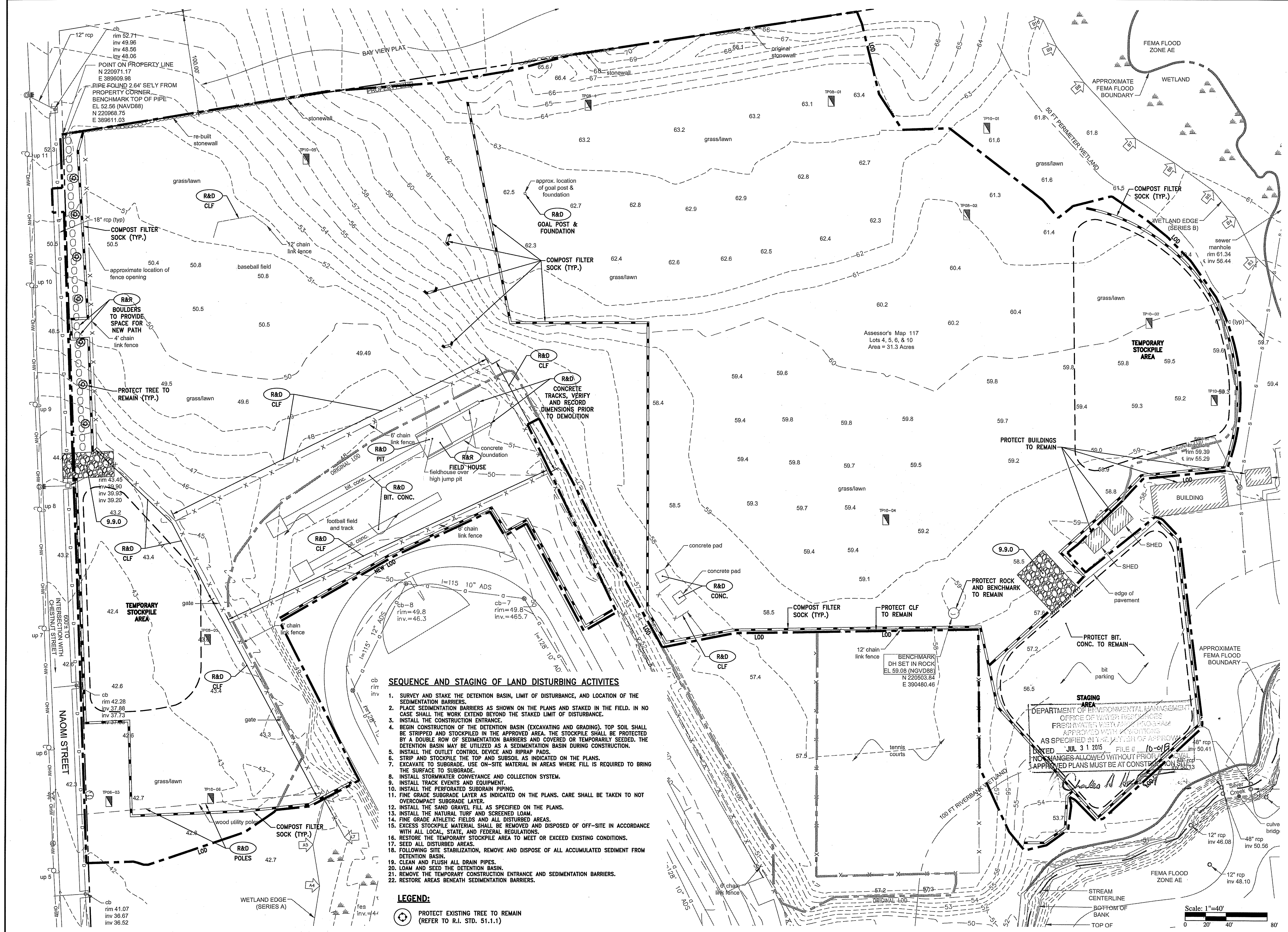
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DAVID L. POTTER
 No. 8665
 REGISTERED PROFESSIONAL ENGINEER
 (P.E.)

REVISIONS:

NO.	DATE	DESCRIPTION
1	JUL 10 2015	ISSUED FOR PERMIT

PROJECT NO.: 14234.00
 DATE: JULY 9, 2015
 SCALE: 1"=40'
 DESIGNED BY: RJS
 CHECKED BY: DLP
 DRAWN BY: AKL
 APPROVED BY: JPS
 DRAWING TITLE:
 DEMOLITION,
 EROSION & SEDIMENT
 CONTROL PLAN
 DRAWING NO.:
C2.1
 SHEET NO. 3 OF 16



SEQUENCE AND STAGING OF LAND DISTURBING ACTIVITIES

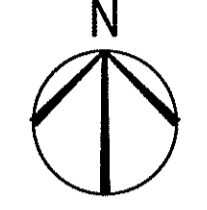
1. SURVEY AND STAKE THE DETENTION BASIN, LIMIT OF DISTURBANCE, AND LOCATION OF THE SEDIMENTATION BARRIERS.
2. PLACE SEDIMENTATION BARRIERS AS SHOWN ON THE PLANS AND STAKED IN THE FIELD. IN NO CASE SHALL THE WORK EXTEND BEYOND THE STAKED LIMIT OF DISTURBANCE.
3. INSTALL THE CONSTRUCTION ENTRANCE.
4. BEGIN CONSTRUCTION OF THE DETENTION BASIN (EXCAVATING AND GRADING). TOP SOIL SHALL BE STRIPPED AND STOCKPILED IN THE APPROVED AREA. THE STOCKPILE SHALL BE PROTECTED BY A DOUBLE ROW OF SEDIMENTATION BARRIERS AND COVERED OR TEMPORARILY SEED. THE DETENTION BASIN MAY BE UTILIZED AS A SEDIMENTATION BASIN DURING CONSTRUCTION.
5. INSTALL THE OUTLET CONTROL DEVICE AND RIPRAP PADS.
6. STRIP AND STOCKPILE THE TOP AND SUBSOIL AS INDICATED ON THE PLANS.
7. EXCAVATE TO SUBGRADE. USE ON-SITE MATERIAL IN AREAS WHERE FILL IS REQUIRED TO BRING THE SURFACE TO SUBGRADE.
8. INSTALL STORMWATER CONVEYANCE AND COLLECTION SYSTEM.
9. INSTALL TRACK EVENTS AND EQUIPMENT.
10. INSTALL THE PERFORATED SUBDRAIN PIPING.
11. FINE GRADE SUBGRADE LAYER AS INDICATED ON THE PLANS. CARE SHALL BE TAKEN TO NOT OVERCOMPACT SUBGRADE LAYER.
12. INSTALL THE SAND GRAVEL FILL AS SPECIFIED ON THE PLANS.
13. INSTALL THE NATURAL TURF AND SCREENED LOAM.
14. FINE GRADE ATHLETIC FIELDS AND ALL DISTURBED AREAS.
15. EXCESS STOCKPILE MATERIAL SHALL BE REMOVED AND DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
16. RESTORE THE TEMPORARY STOCKPILE AREA TO MEET OR EXCEED EXISTING CONDITIONS.
17. SEED ALL DISTURBED AREAS.
18. FOLLOWING SITE STABILIZATION, REMOVE AND DISPOSE OF ALL ACCUMULATED SEDIMENT FROM DETENTION BASIN.
19. CLEAN AND FLUSH ALL DRAIN PIPES.
20. LOAM AND SEED THE DETENTION BASIN.
21. REMOVE THE TEMPORARY CONSTRUCTION ENTRANCE AND SEDIMENTATION BARRIERS.
22. RESTORE AREAS BENEATH SEDIMENTATION BARRIERS.

LEGEND:

- PROTECT EXISTING TREE TO REMAIN (REFER TO R.I. STD. 51.1.1)

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 TOWN OF BRISTOL
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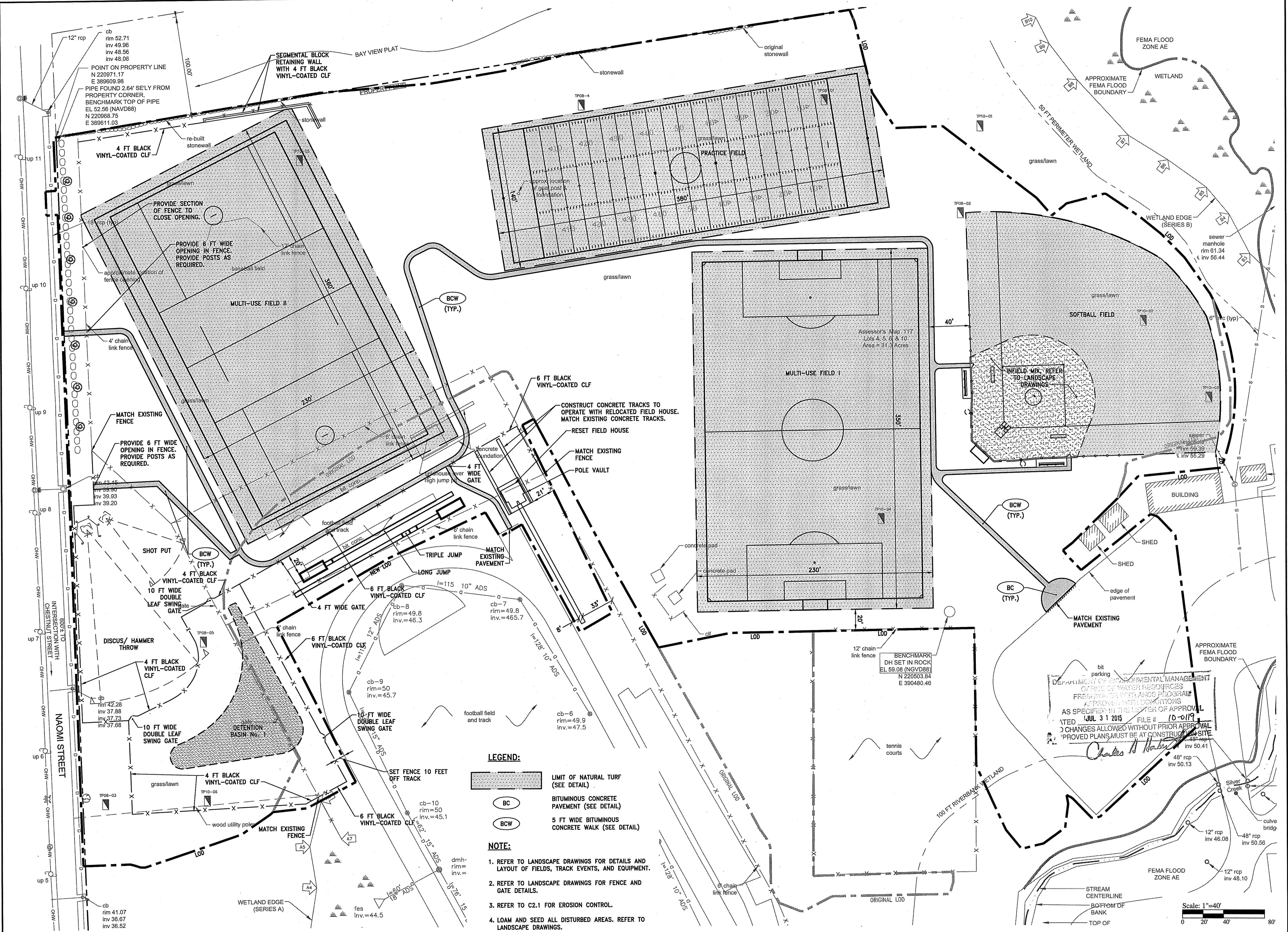
DAVID L. POTTER
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 PROFESSIONAL ENGINEER
 (P.E. 00000000)

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 DATE: JULY 9, 2015
 SCALE: 1"=40'
 DESIGNED BY: RJS
 CHECKED BY: DLP
 DRAWN BY: AKL
 APPROVED BY: JPS
 DRAWING TITLE:

GENERAL PLAN

DRAWING NO.: C3.1
 SHEET NO. 4 OF 15



LEGEND:

- LIMIT OF NATURAL TURF (SEE DETAIL)
- BITUMINOUS CONCRETE PAVEMENT (SEE DETAIL)
- 5 FT WIDE BITUMINOUS CONCRETE WALK (SEE DETAIL)

NOTE:

1. REFER TO LANDSCAPE DRAWINGS FOR DETAILS AND LAYOUT OF FIELDS, TRACK EVENTS, AND EQUIPMENT.
2. REFER TO LANDSCAPE DRAWINGS FOR FENCE AND GATE DETAILS.
3. REFER TO C2.1 FOR EROSION CONTROL.
4. LOAM AND SEED ALL DISTURBED AREAS. REFER TO LANDSCAPE DRAWINGS.

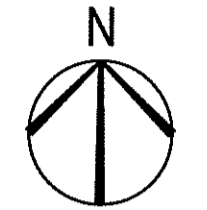
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER AND MARINE PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JUL 31 2015 FILE # 10-0119
 ANY CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles H. Harker
 48" rcp inv 50.13
 48" rcp inv 50.58
 12" rcp inv 46.08
 12" rcp inv 48.10

Scale: 1"=40'
 0 20' 40' 80'

Owner/Applicant
 TOWN OF BRISTOL
 10 COURT STREET
 BRISTOL, RI 02809
 (401) 253-7000

BRISTOL WARREN
 REGIONAL SCHOOL
 DISTRICT
 151 STATE STREET
 BRISTOL, RI 02809
 (401) 253-4000



Athletic Fields Drainage Improvements Mt. Hope High School

A.P. 117 Lots 4, 5, 6, & 10
 199 Chestnut Street Bristol, Rhode Island

DAVID L. POTTER
 No. 6665
 REGISTERED PROFESSIONAL ENGINEER

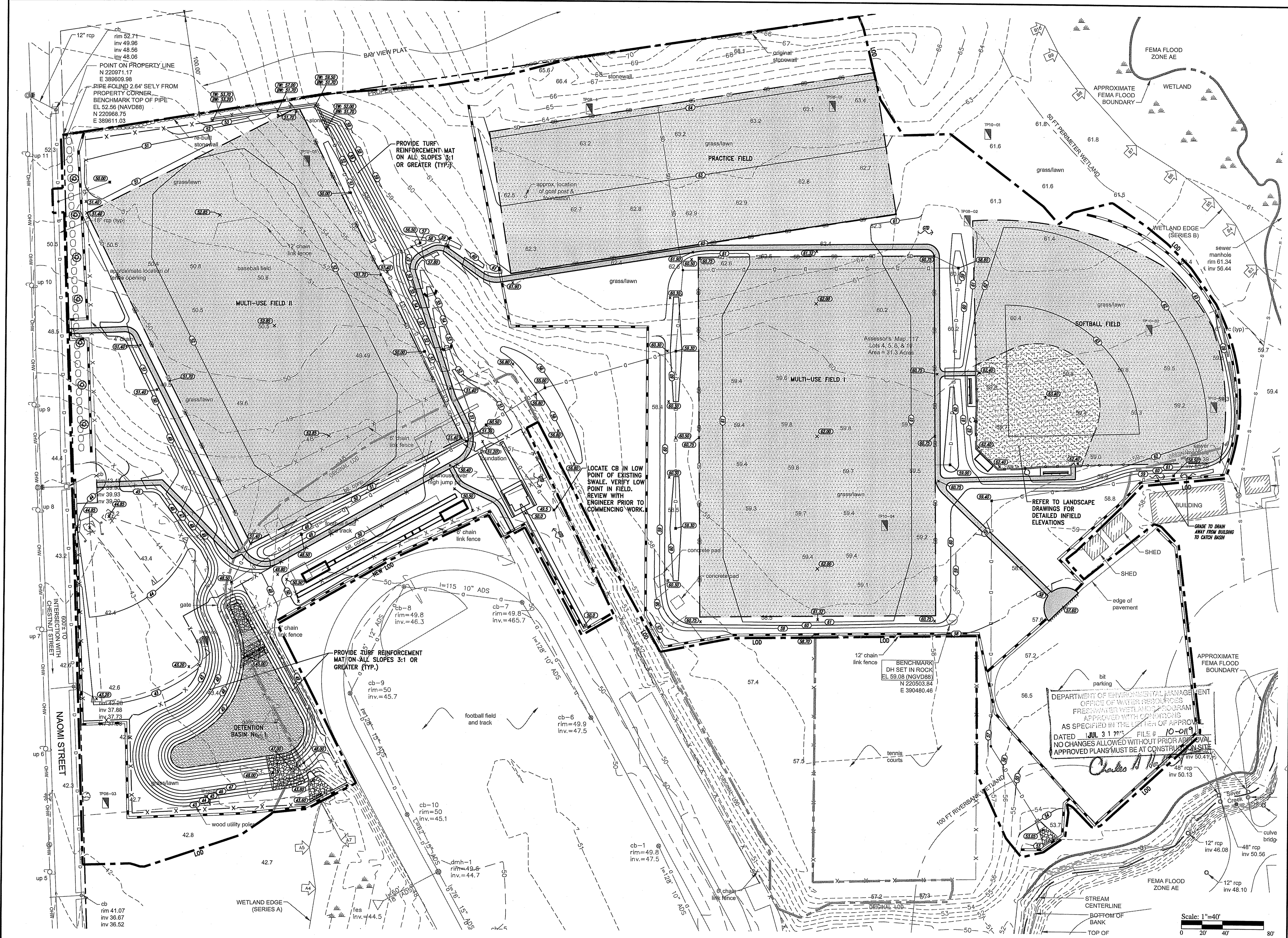
REVISIONS:

NO.	DATE	DESCRIPTION
1	JUL 10 2015	ISSUED FOR PERMIT

PROJECT NO.: 14234.00
 DATE: JULY 9, 2015
 SCALE: 1"=40'
 DESIGNED BY: RJS
 CHECKED BY: DLP
 DRAWN BY: AKL
 APPROVED BY: JPS
 DRAWING TITLE:

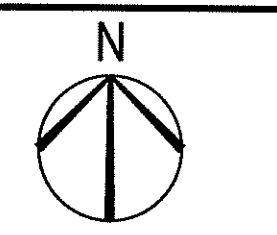
GRADING PLAN

DRAWING NO.: C4.1
 SHEET NO. 5 OF 15



Owner/Applicant
 TOWN OF BRISTOL
 10 COURT STREET
 BRISTOL, RI 02809
 (401) 253-7000

BRISTOL WARREN
 REGIONAL SCHOOL
 DISTRICT
 151 STATE STREET
 BRISTOL, RI 02809
 (401) 253-4000



Athletic Fields Drainage Improvements Mt. Hope High School

A.P. 117 Lots 4, 5, 6, & 10
 199 Chestnut Street Bristol, Rhode Island

DAVID L. POTTER
 No. 8665
 REGISTERED PROFESSIONAL ENGINEER
 (P.E.)

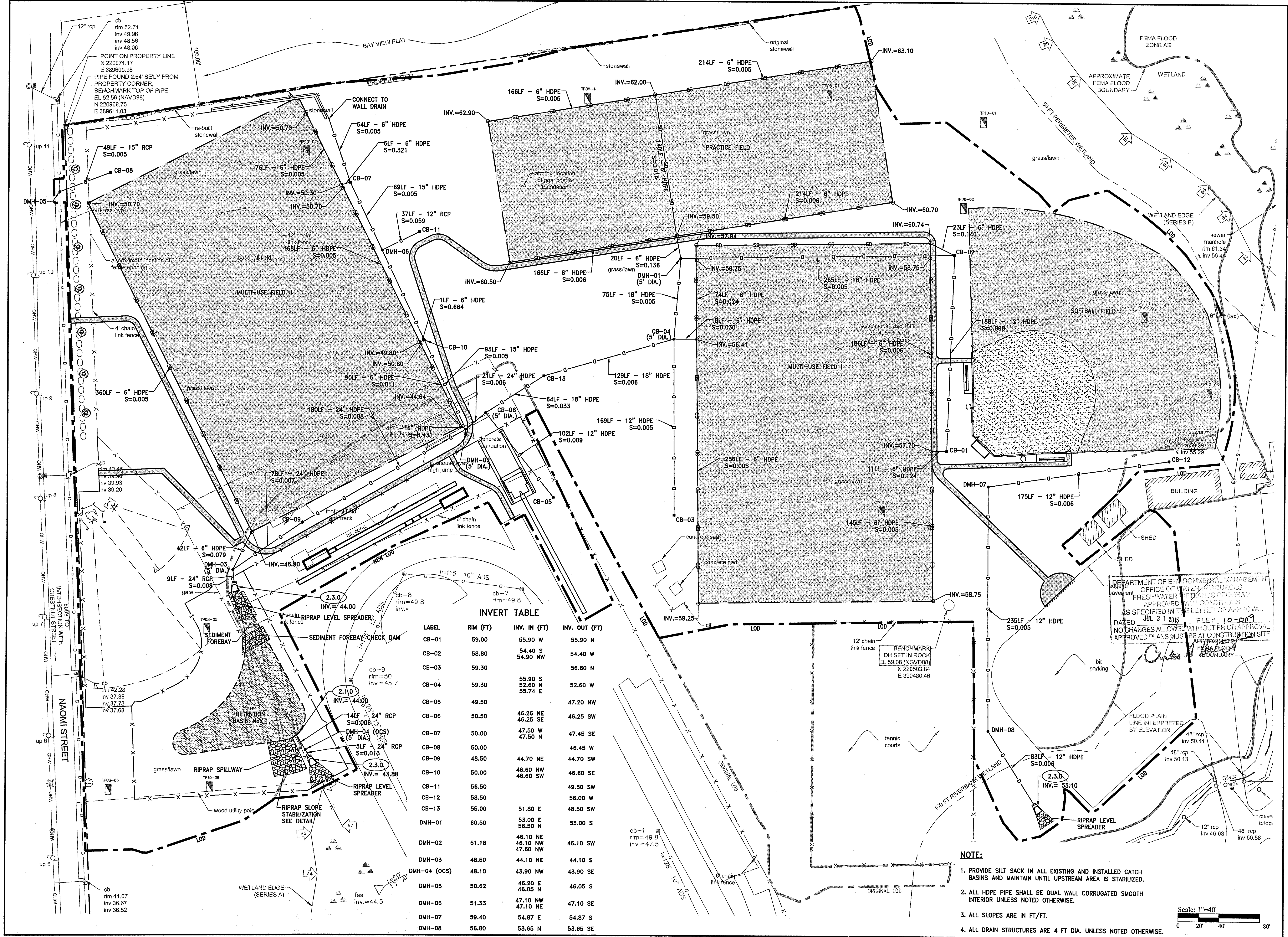
REVISIONS:

NO.	DATE	DESCRIPTION

PROJECT NO.: 14234.00
 DATE: JULY 9, 2015
 SCALE: 1"=40'
 DESIGNED BY: RJS
 CHECKED BY: DLP
 DRAWN BY: AKL
 APPROVED BY: JPS
 DRAWING TITLE:

DRAINAGE PLAN

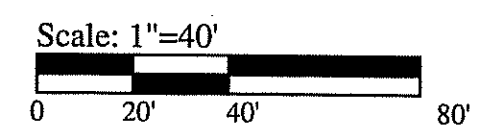
DRAWING NO.: C5.1
 SHEET NO. 6 OF 15

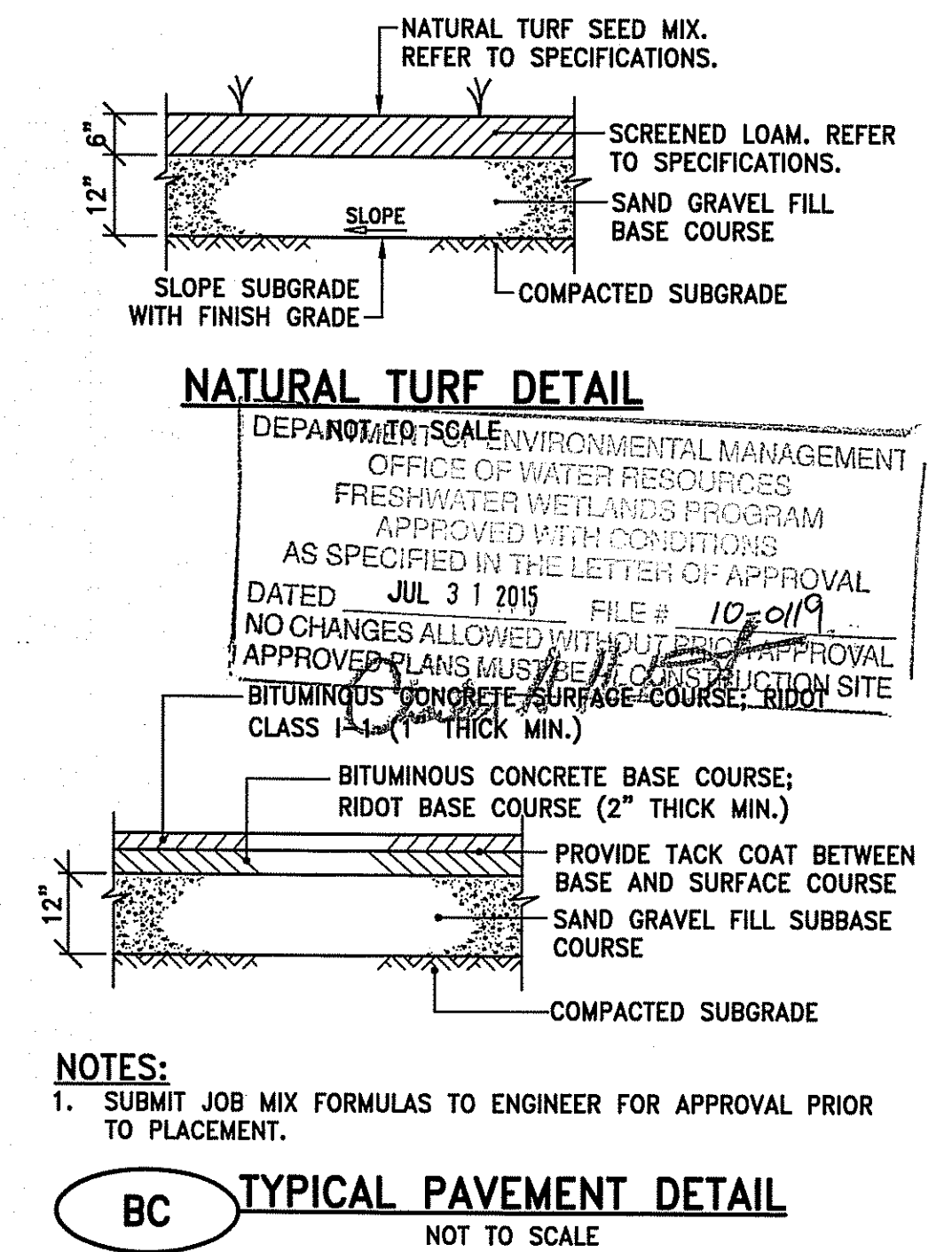
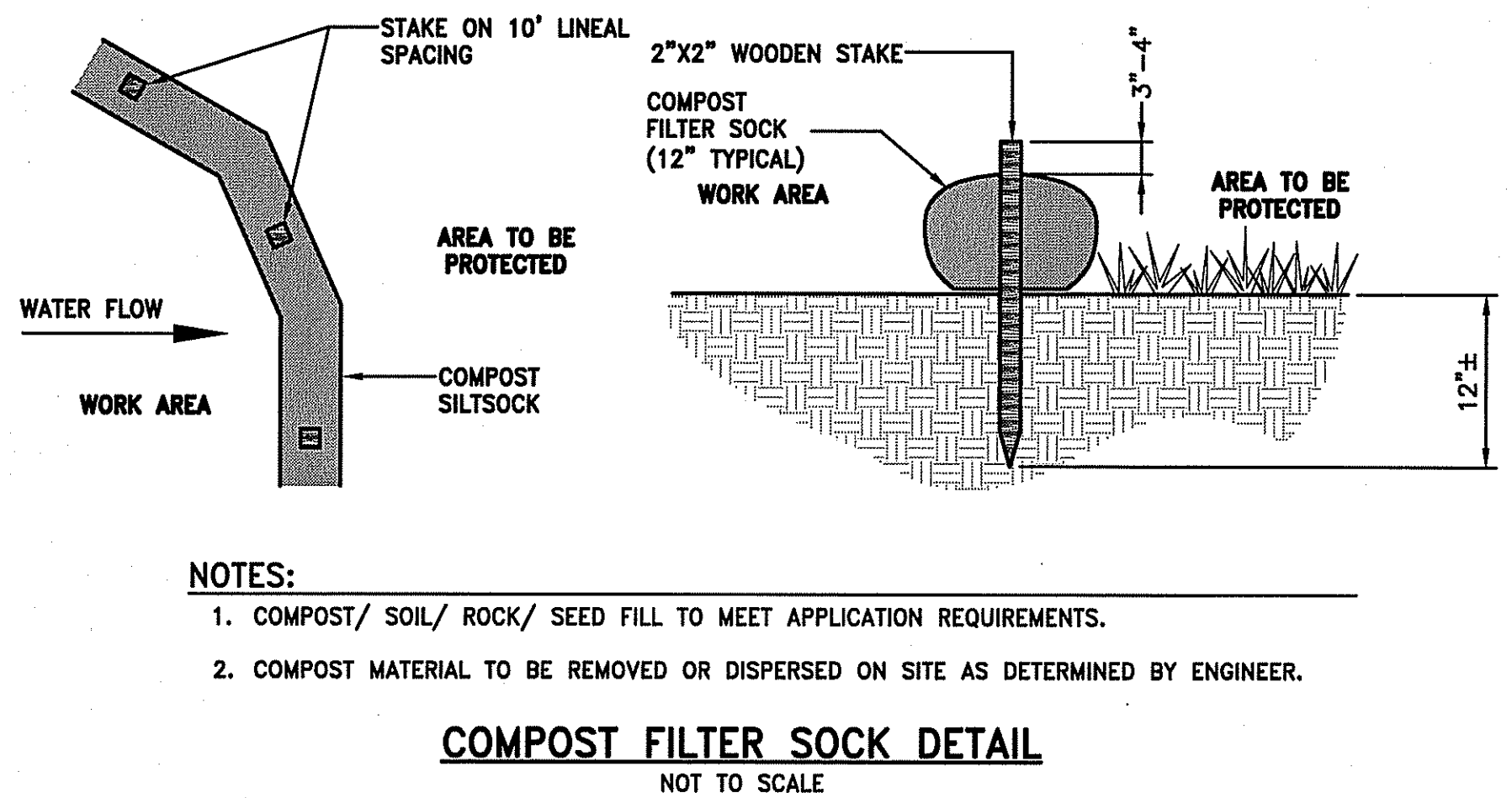
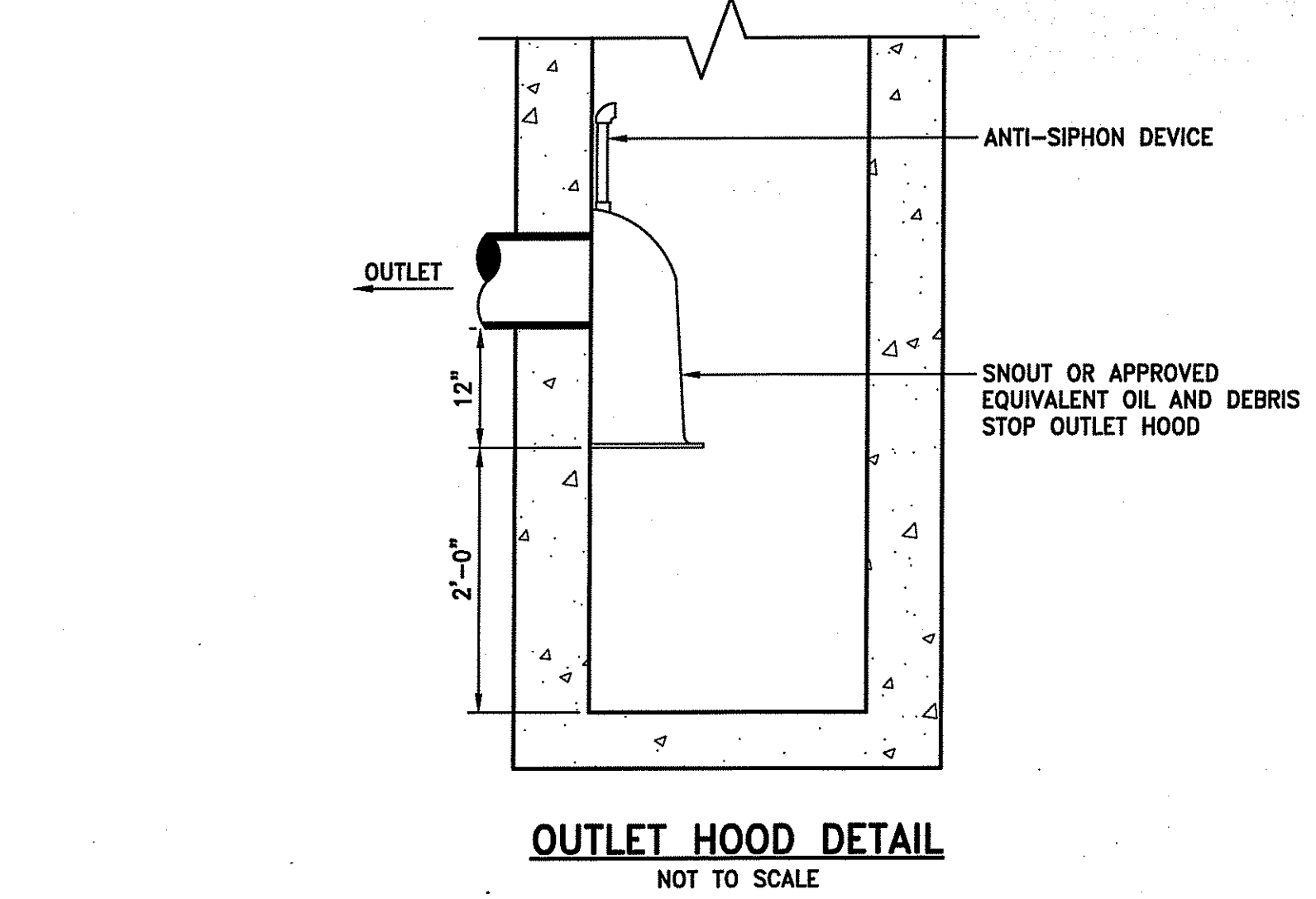
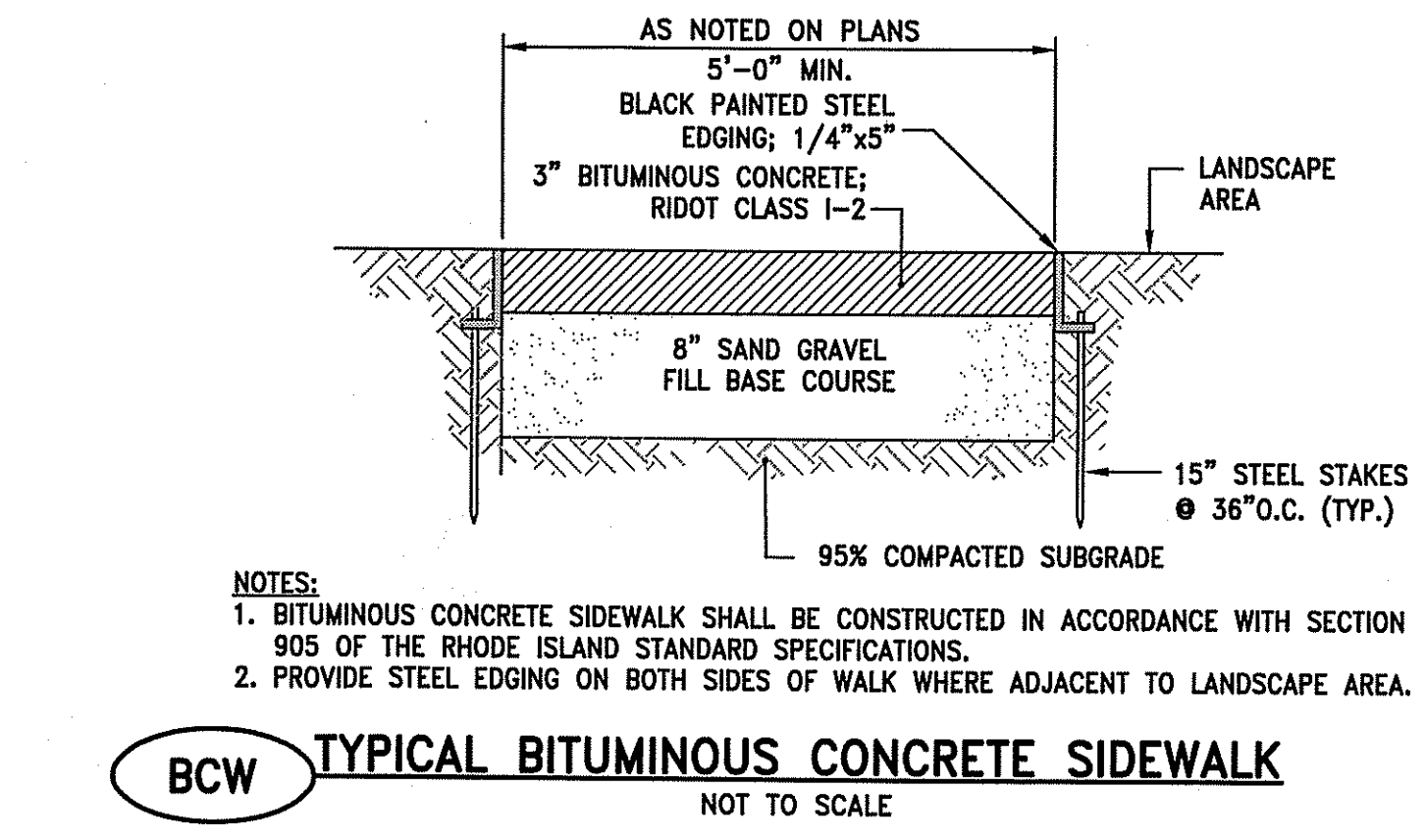
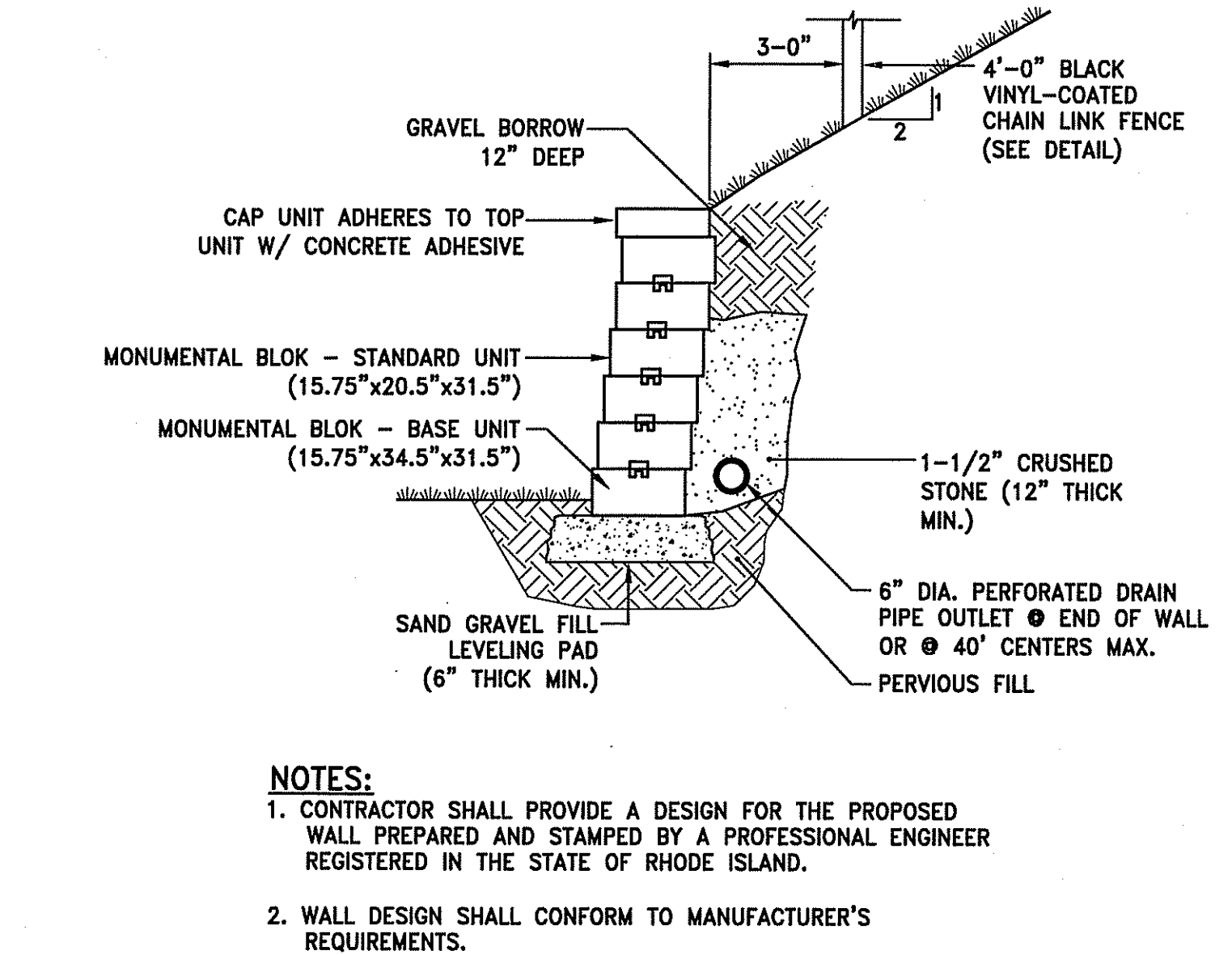
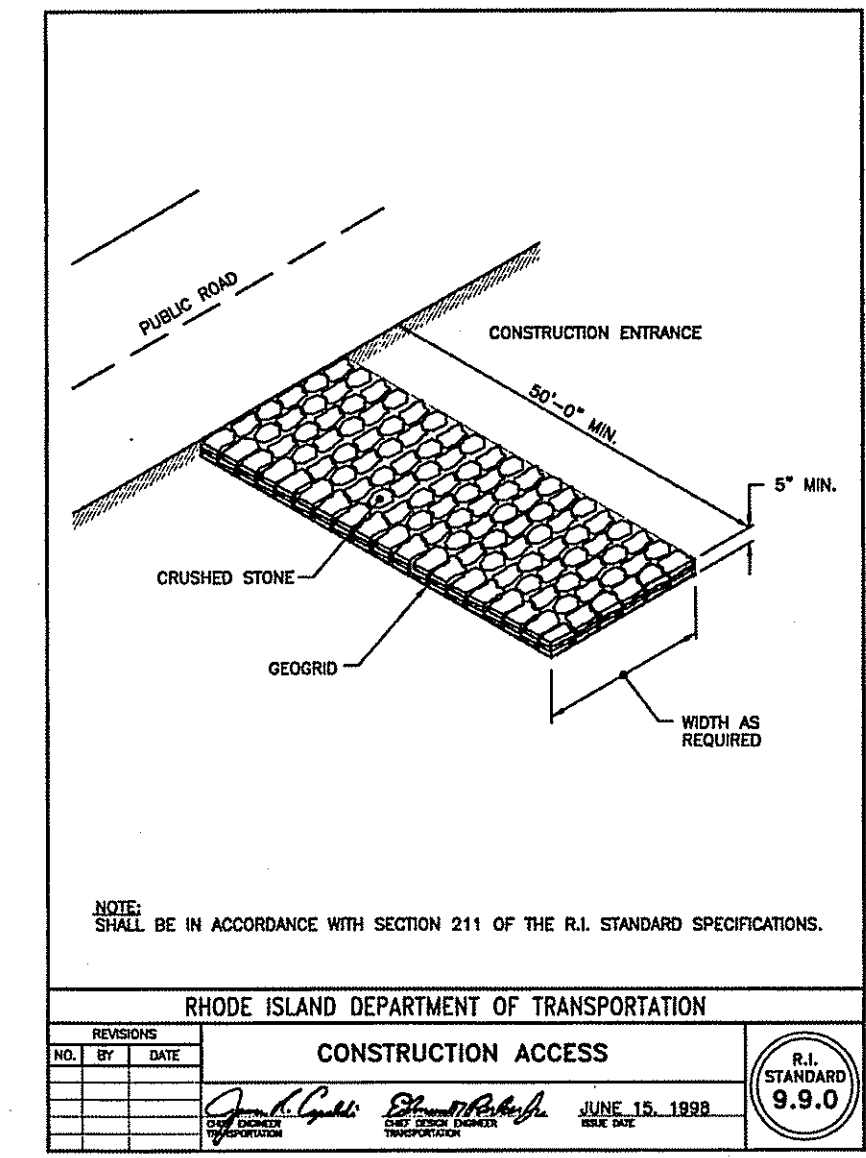
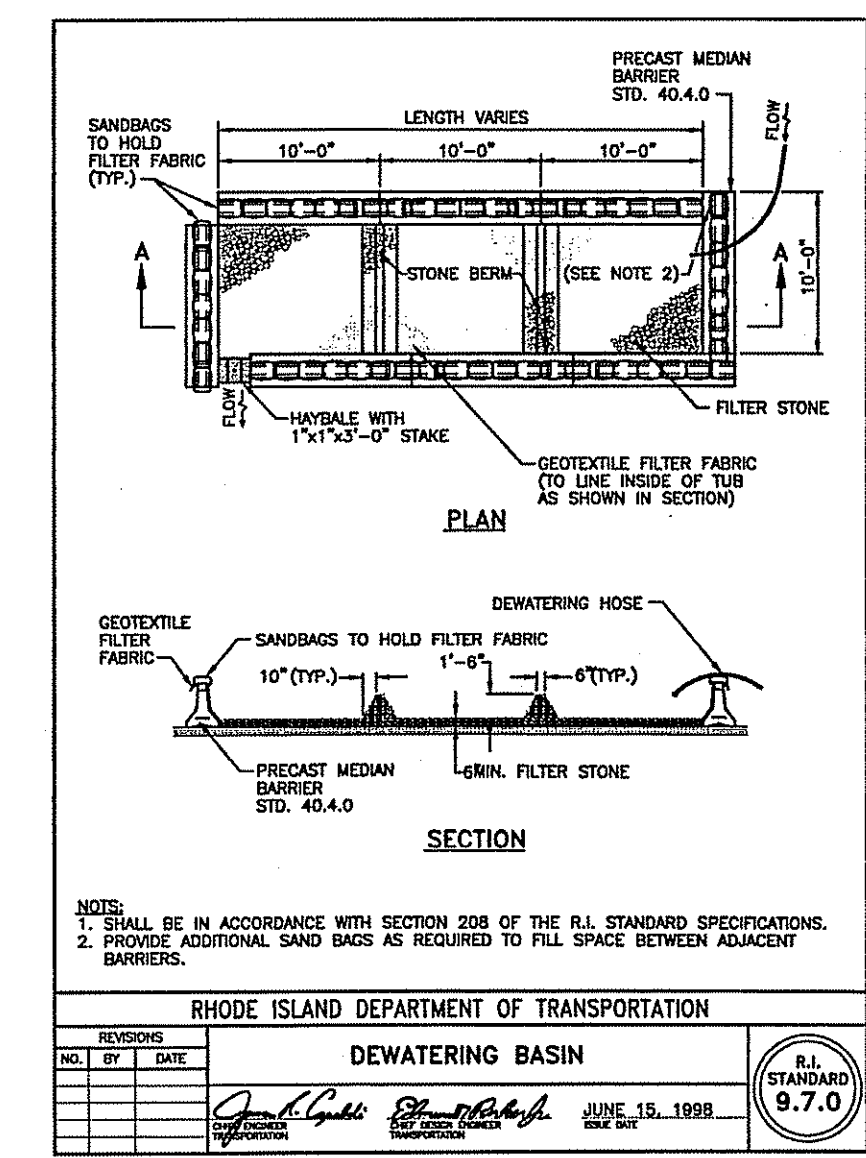
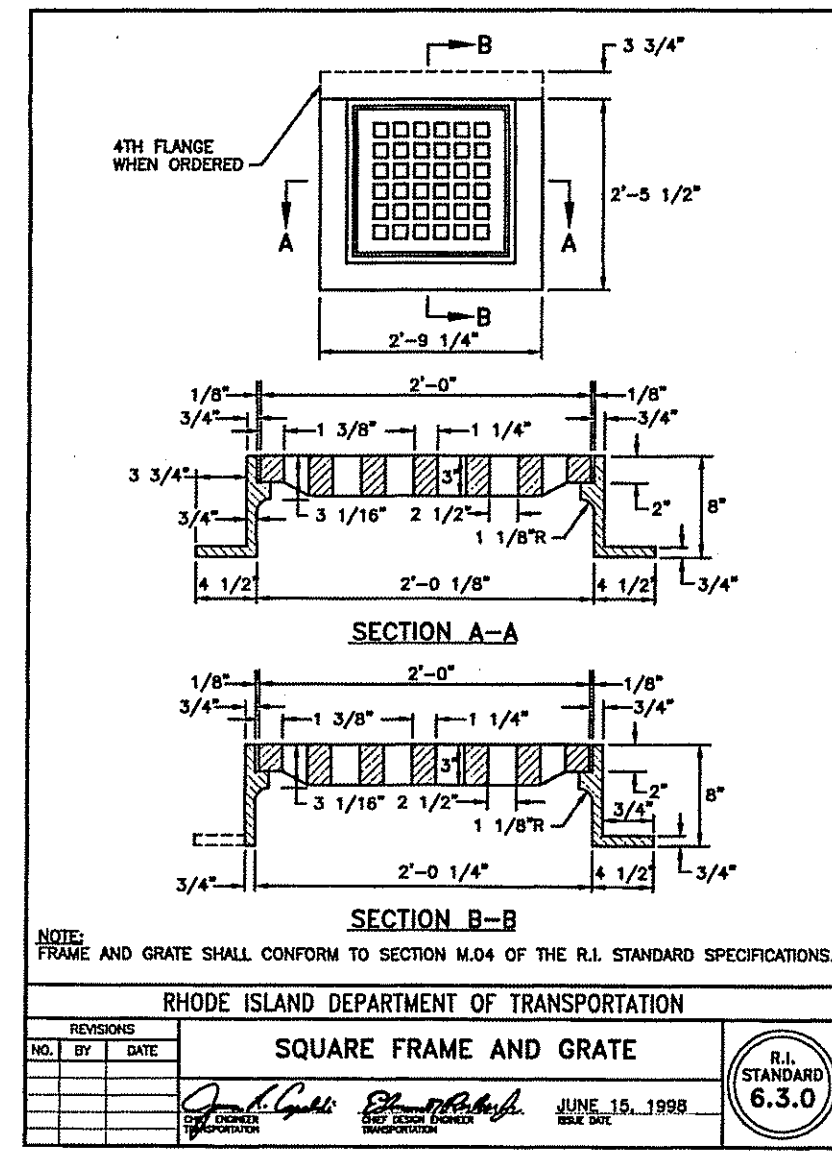
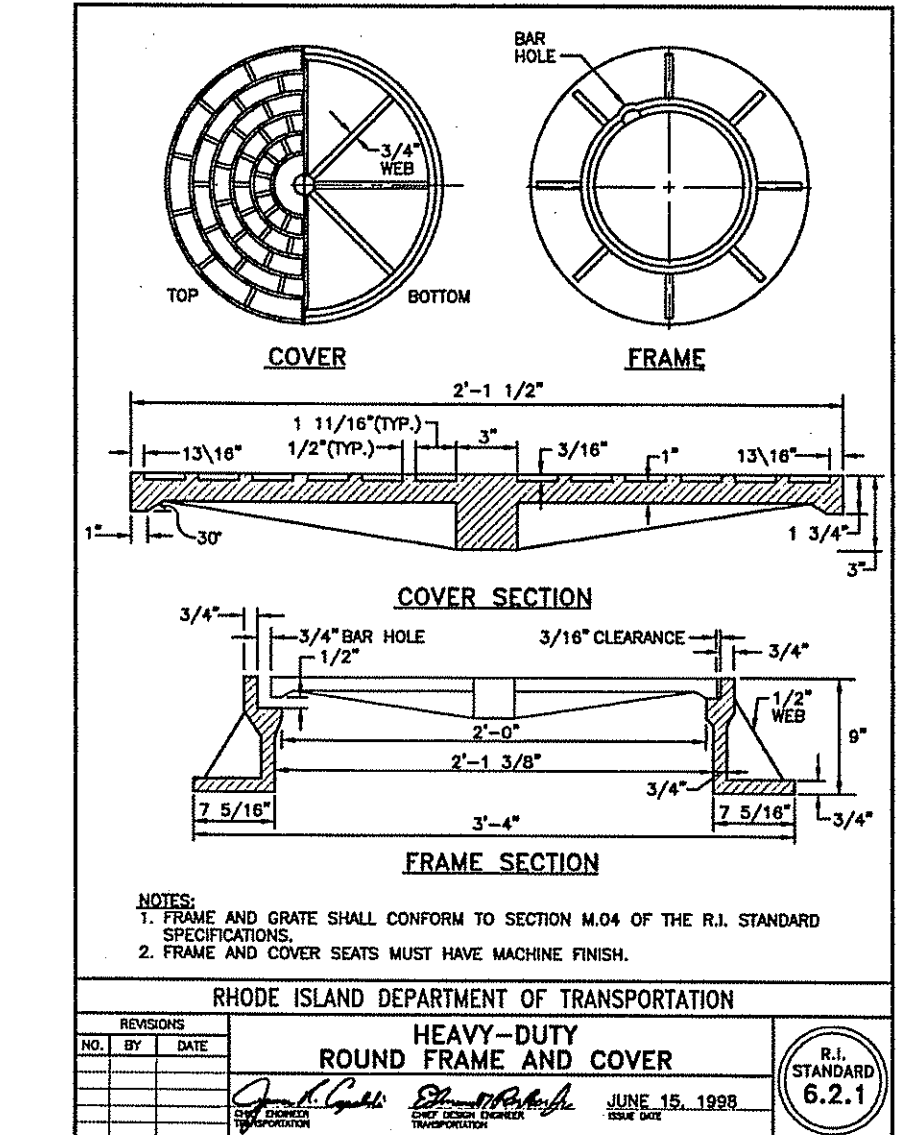
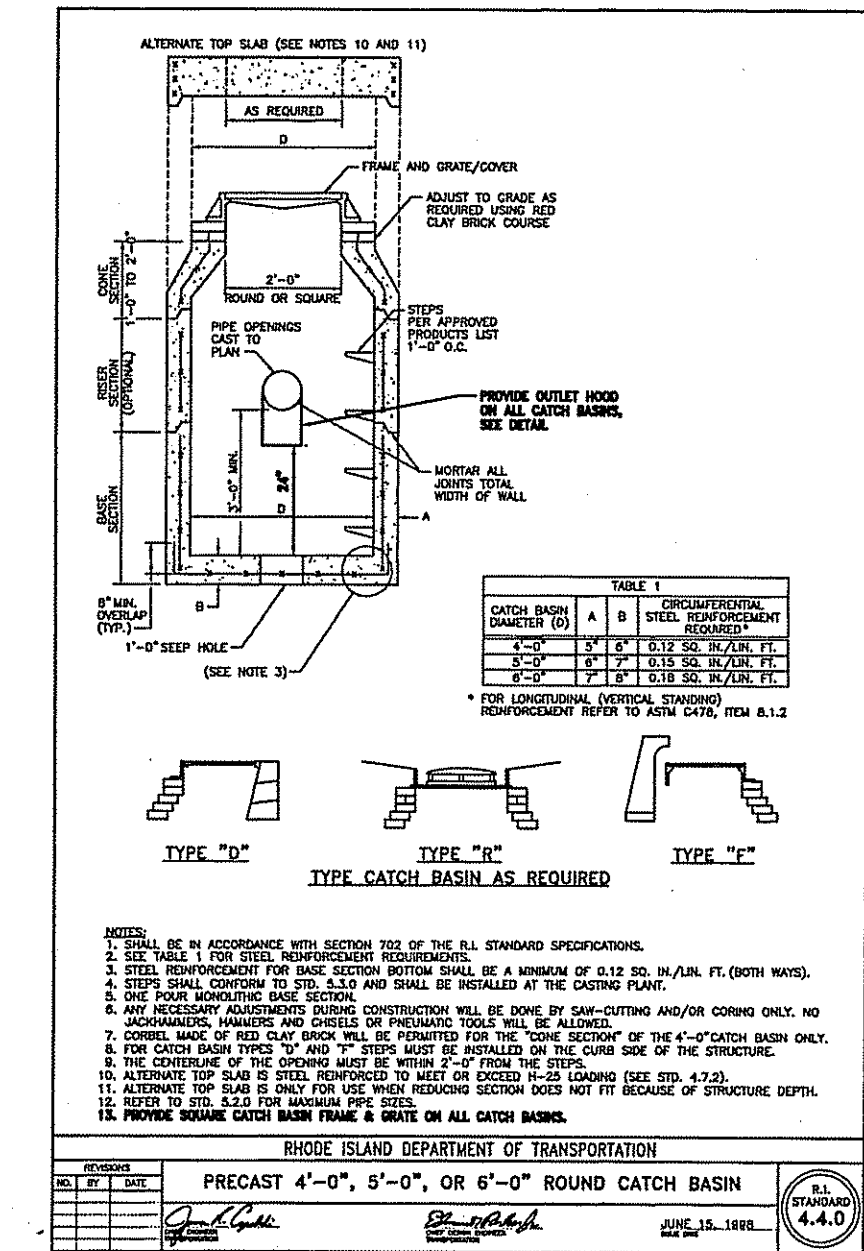
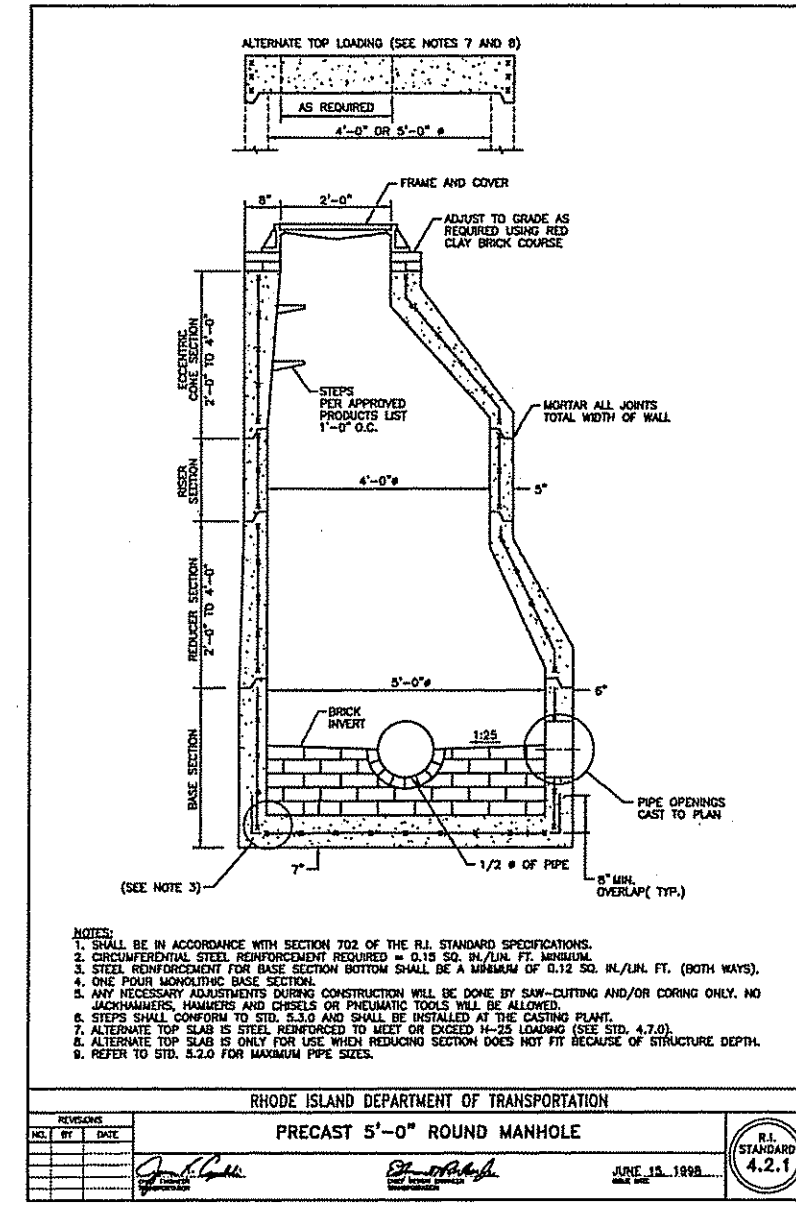
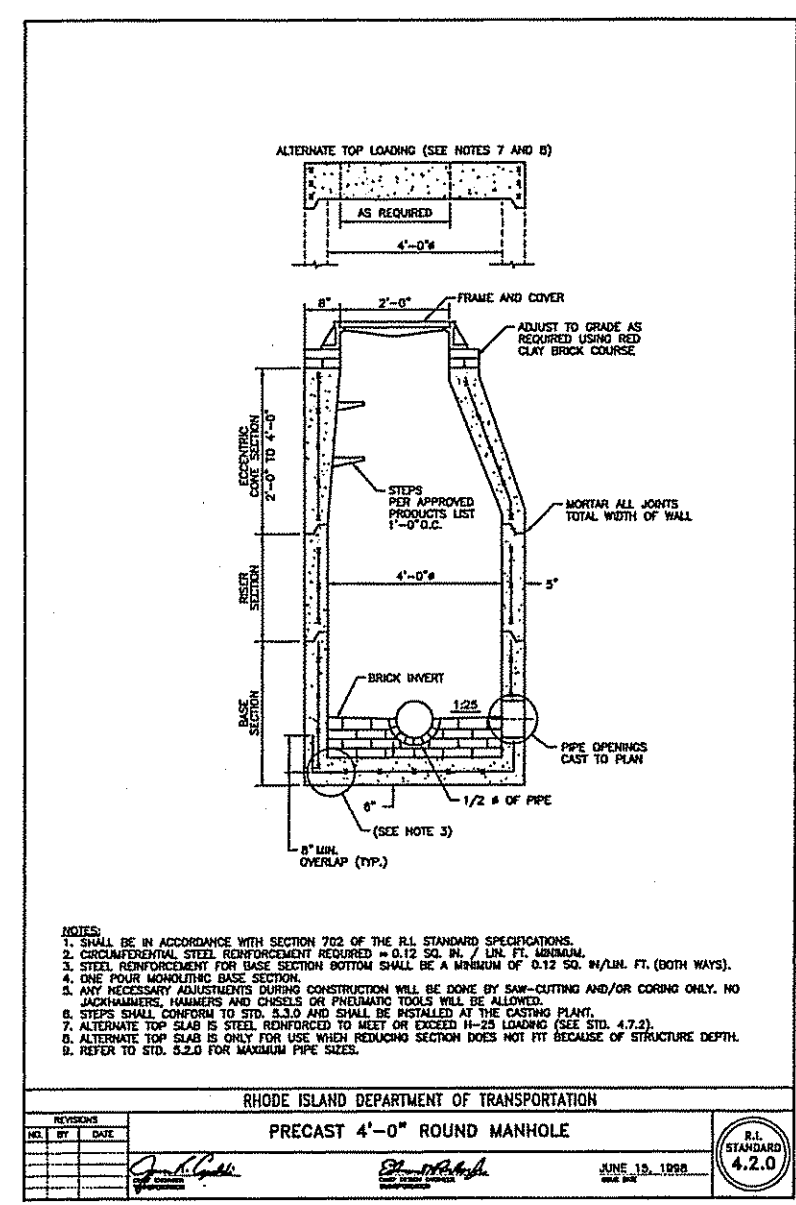
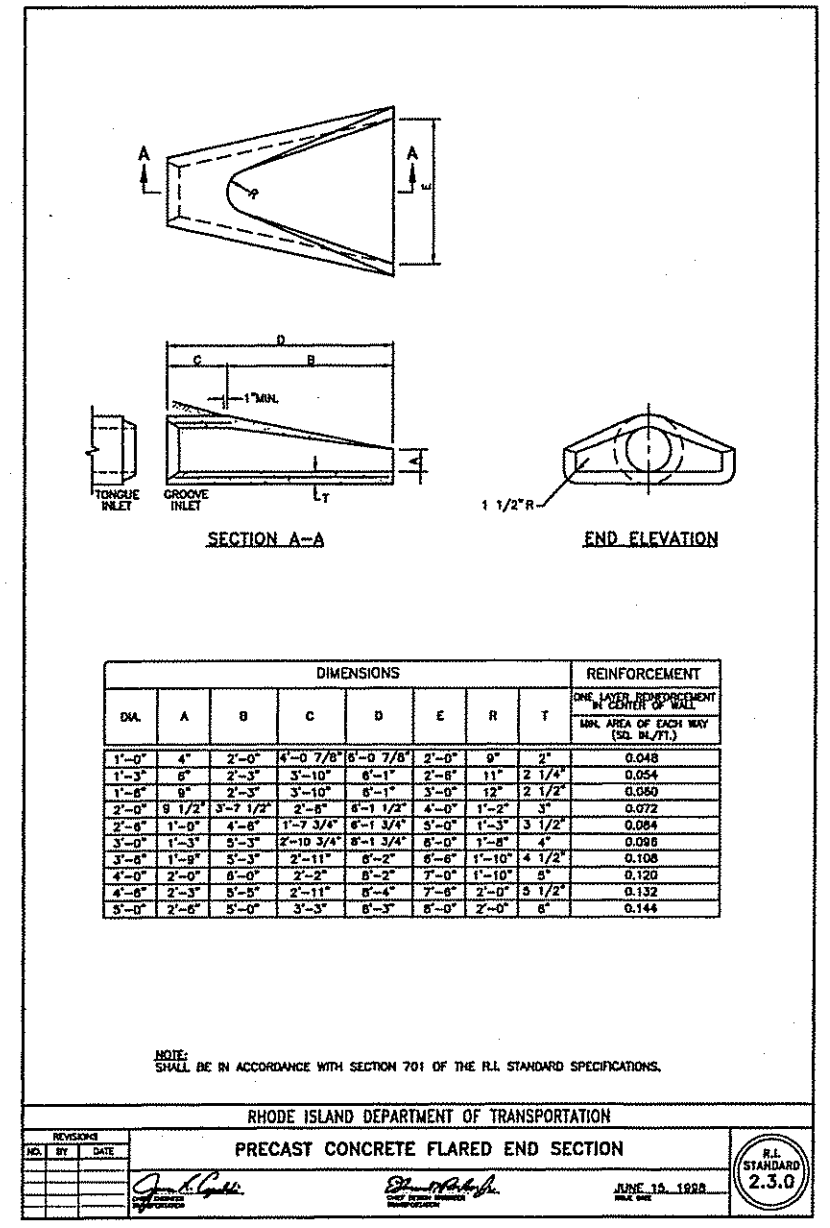
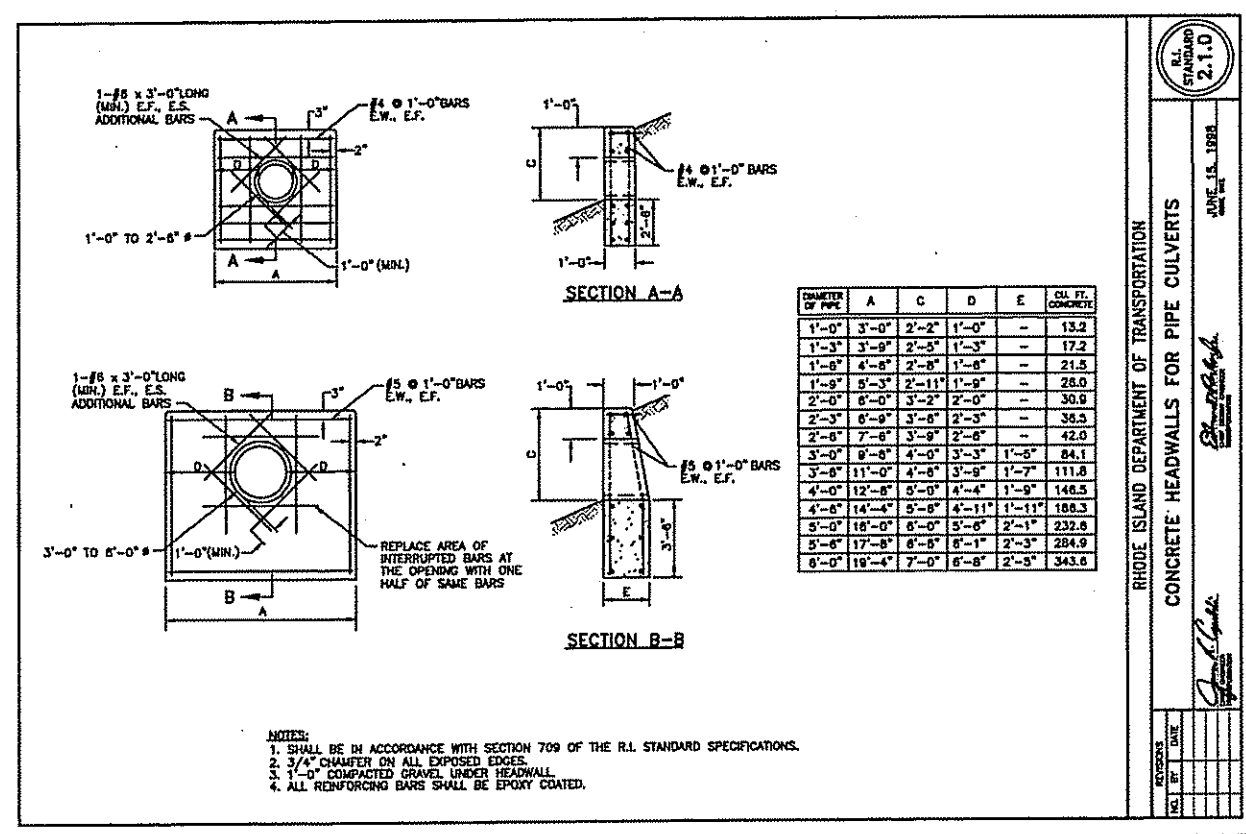


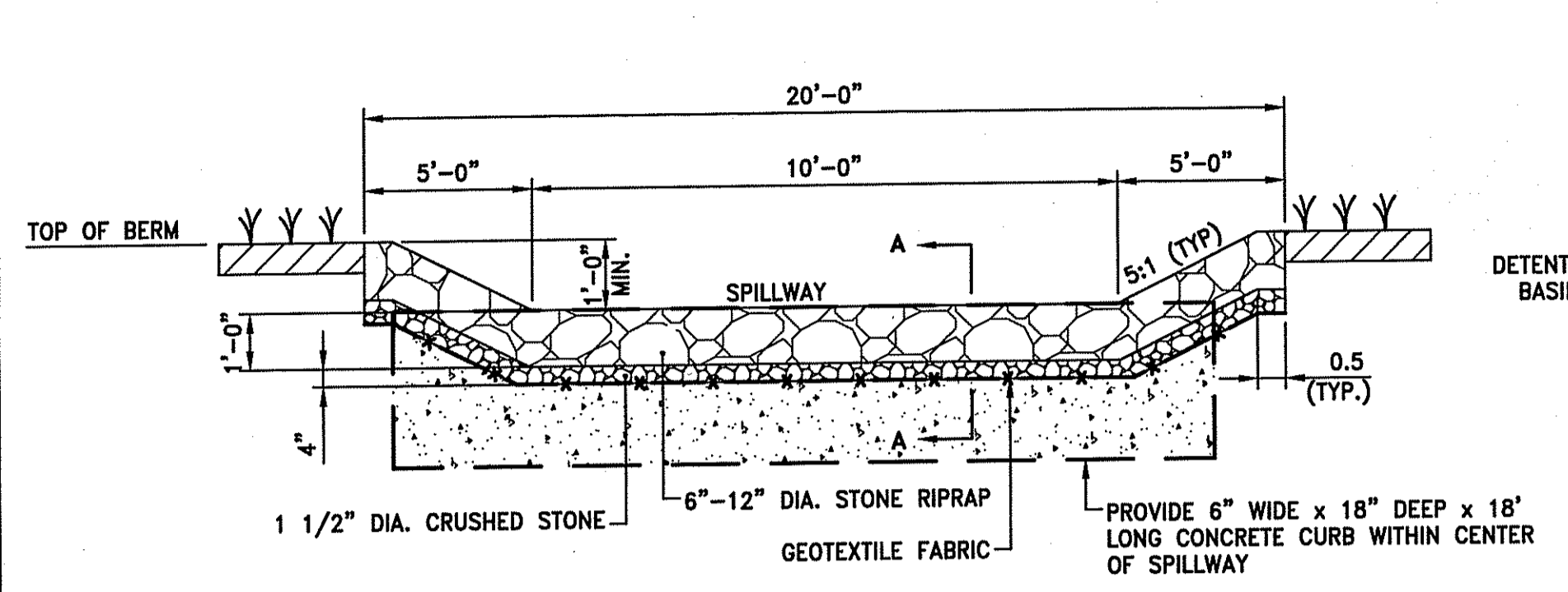
INVERT TABLE

LABEL	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
CB-01	59.00	55.90 W	55.90 N
CB-02	58.80	54.40 S	54.40 W
CB-03	59.30	55.90 S	56.80 N
CB-04	59.30	52.60 N	52.60 W
CB-05	49.50	55.90 S	47.20 NW
CB-06	50.50	46.26 NE	46.25 SW
CB-07	50.00	47.50 W	47.45 SE
CB-08	50.00	46.45 W	46.45 W
CB-09	48.50	44.70 NE	44.70 SW
CB-10	50.00	46.60 NW	46.60 SE
CB-11	56.50	49.50 SW	49.50 SW
CB-12	58.50	56.00 W	56.00 W
CB-13	55.00	51.80 E	48.50 SW
DMH-01	60.50	53.00 E	53.00 S
DMH-02	51.18	46.10 NE	46.10 SW
DMH-03	48.50	44.10 NE	44.10 S
DMH-04 (OCS)	48.10	43.90 NW	43.90 SE
DMH-05	50.62	46.20 E	46.05 S
DMH-06	51.33	47.10 NW	47.10 SE
DMH-07	59.40	54.87 E	54.87 S
DMH-08	56.80	53.65 N	53.65 SE

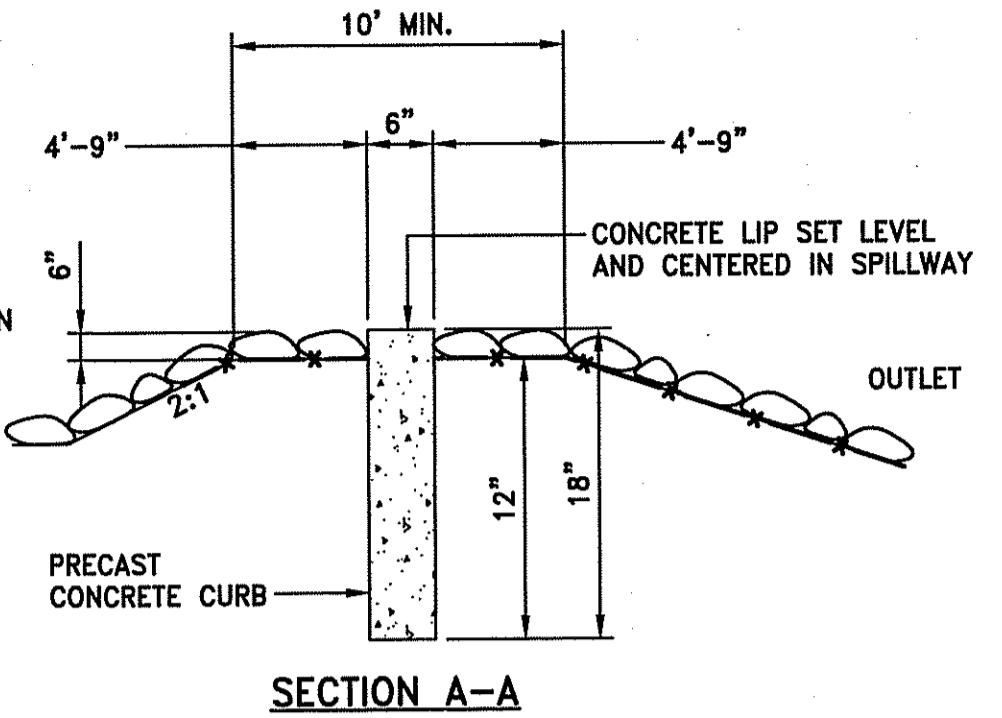
- NOTE:**
1. PROVIDE SILT SACK IN ALL EXISTING AND INSTALLED CATCH BASINS AND MAINTAIN UNTIL UPSTREAM AREA IS STABILIZED.
 2. ALL HDPE PIPE SHALL BE DUAL WALL CORRUGATED SMOOTH INTERIOR UNLESS NOTED OTHERWISE.
 3. ALL SLOPES ARE IN FT/FT.
 4. ALL DRAIN STRUCTURES ARE 4 FT DIA. UNLESS NOTED OTHERWISE.





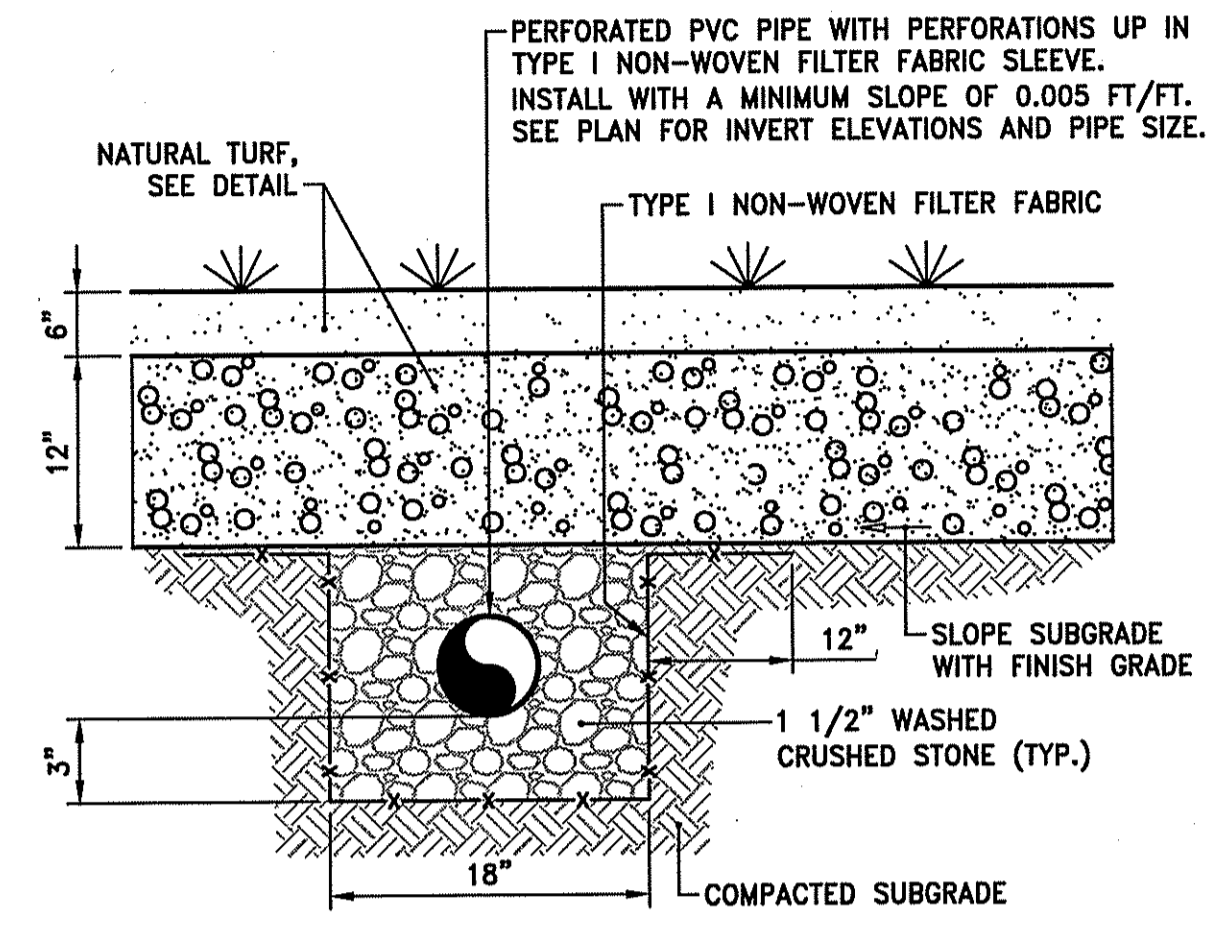


RIPRAP SPILLWAY DETAIL
NOT TO SCALE

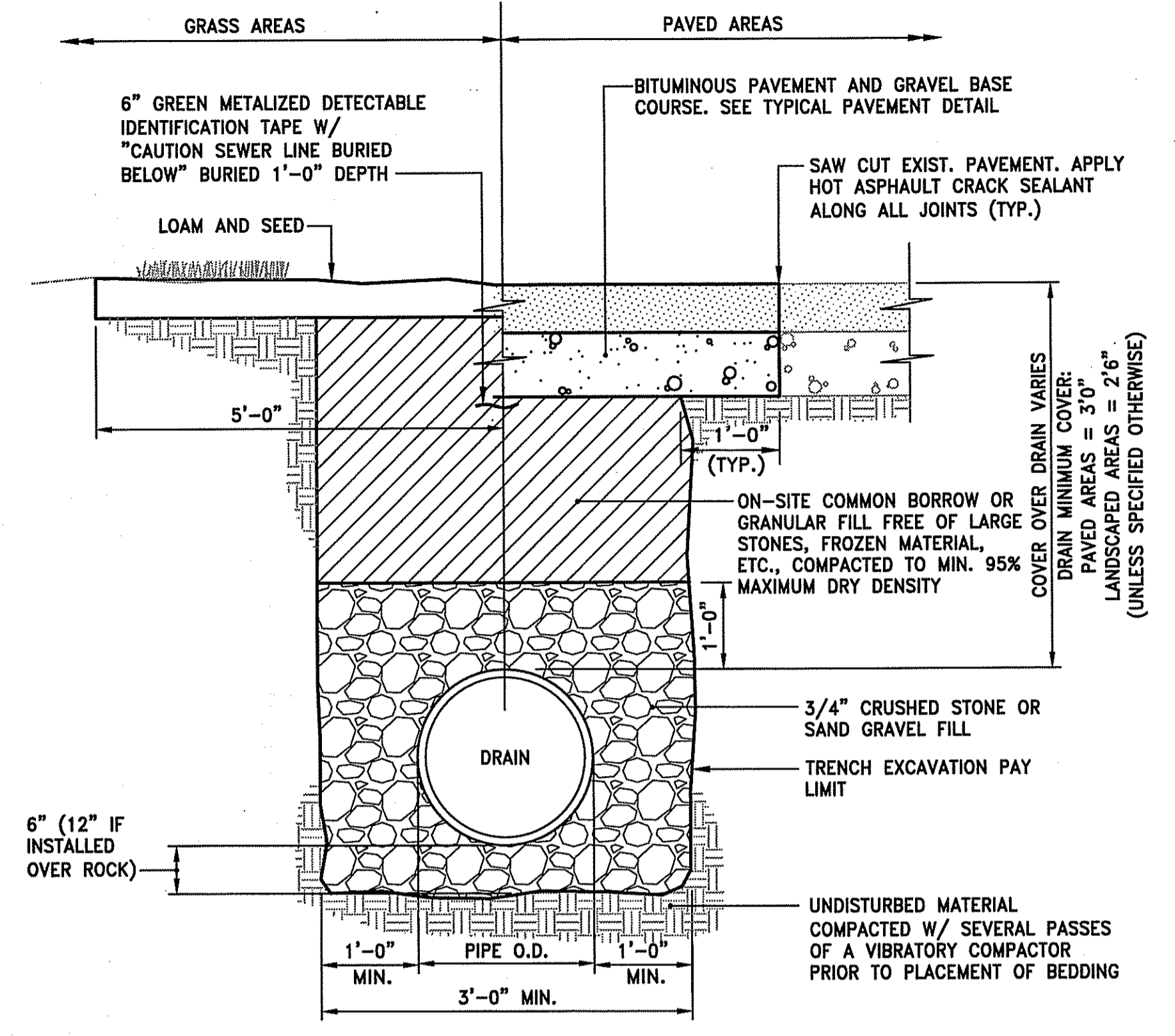


SECTION A-A

NOTE:
CONTRACTOR SHALL FILL VOIDS BETWEEN CURB SECTIONS WITH MORTAR
DET = DETENTION BASIN
BIO = BIOTENTION AREA
SF = SAND FILTER

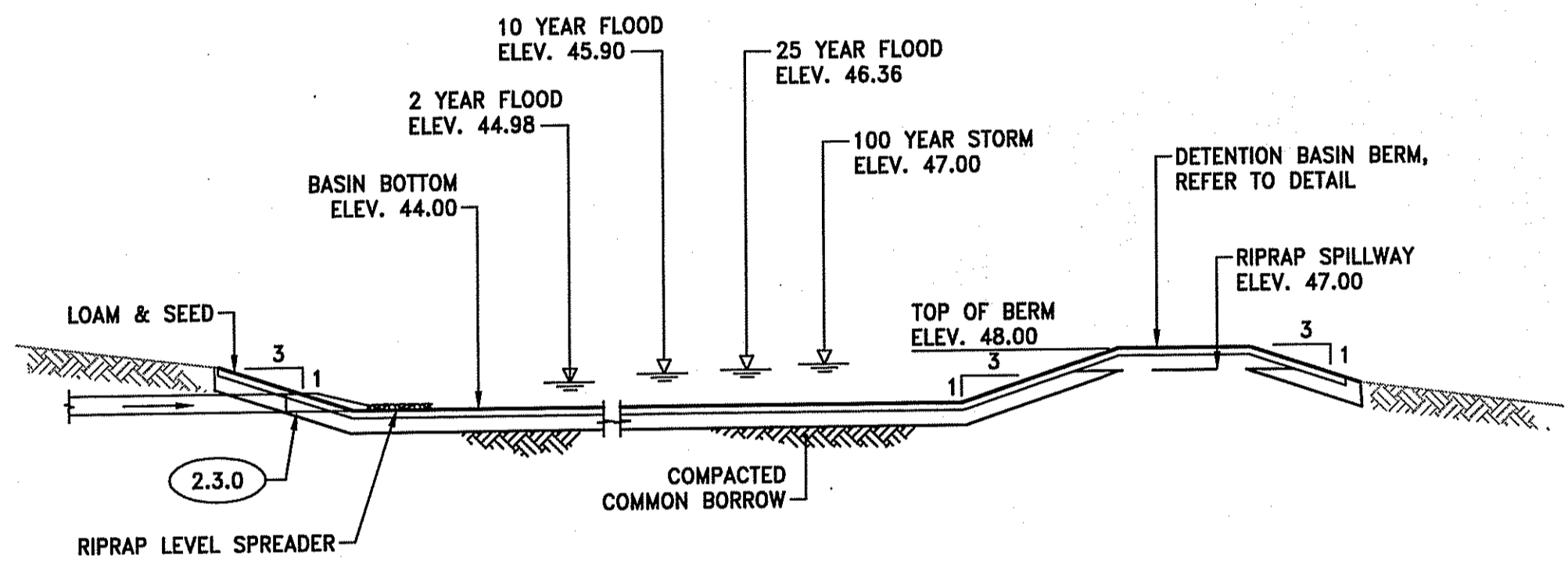


SUBDRAIN DETAIL
NOT TO SCALE

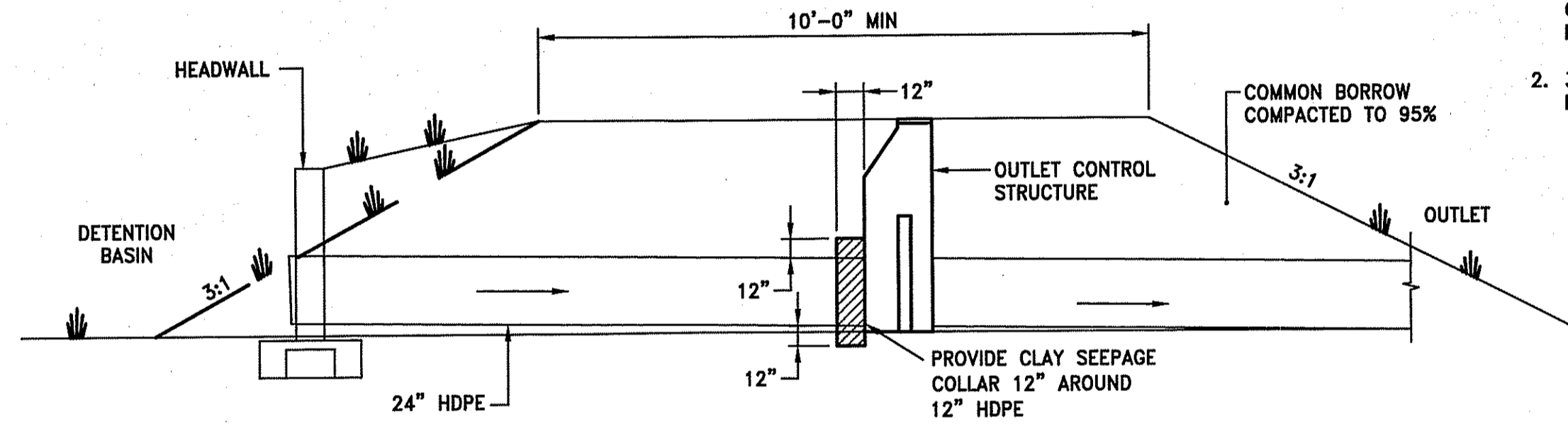


TYPICAL DRAIN TRENCH DETAIL
NOT TO SCALE

NOTES:
1. WHERE THE DISTANCE BETWEEN THE SAWCUT AND EDGE OF PAVEMENT IS 3' OR LESS, THE CONTRACTOR SHALL REPLACE THE PAVEMENT FROM THE TRENCH EDGE TO THE EXISTING EDGE OF PAVEMENT.
2. 3/4" DIA. CRUSHED STONE SHALL BE USED AS BEDDING WHERE TRENCH IS BELOW THE GROUND WATER TABLE.

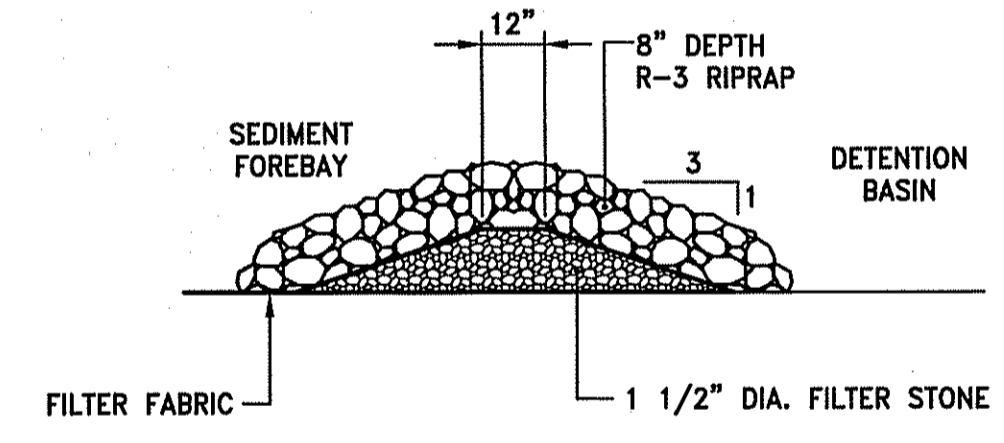


DETENTION BASIN SECTION
NOT TO SCALE

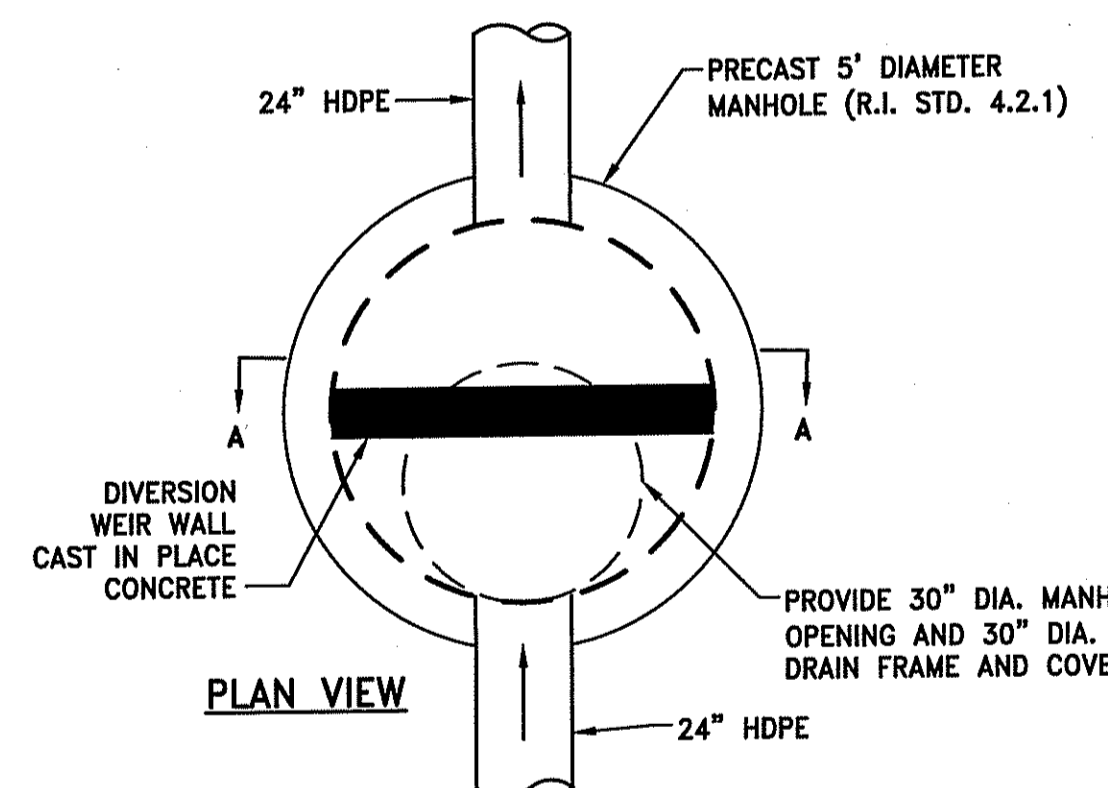


DETENTION BASIN BERM SECTION AT OUTLET
NOT TO SCALE

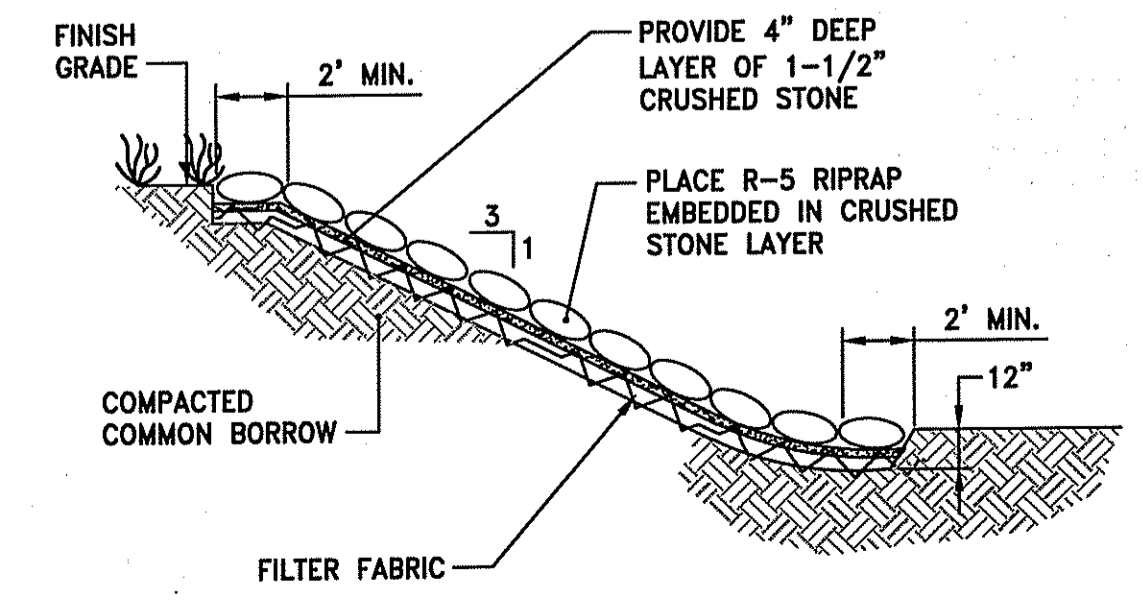
NOTES:
1. DETENTION BASIN BERM SHALL BE CONSTRUCTED WITH COMMON BORROW PLACED IN 12" LIFTS AND COMPACTED TO 95% TO FINISH GRADE.
2. REMOVE ALL EXISTING TOPSOIL AND ORGANIC MATERIAL PRIOR TO CONSTRUCTING DETENTION BASIN BERM.
3. COMMON BORROW SHALL EXTEND A MINIMUM OF 12" BELOW DETENTION BASIN BOTTOM.



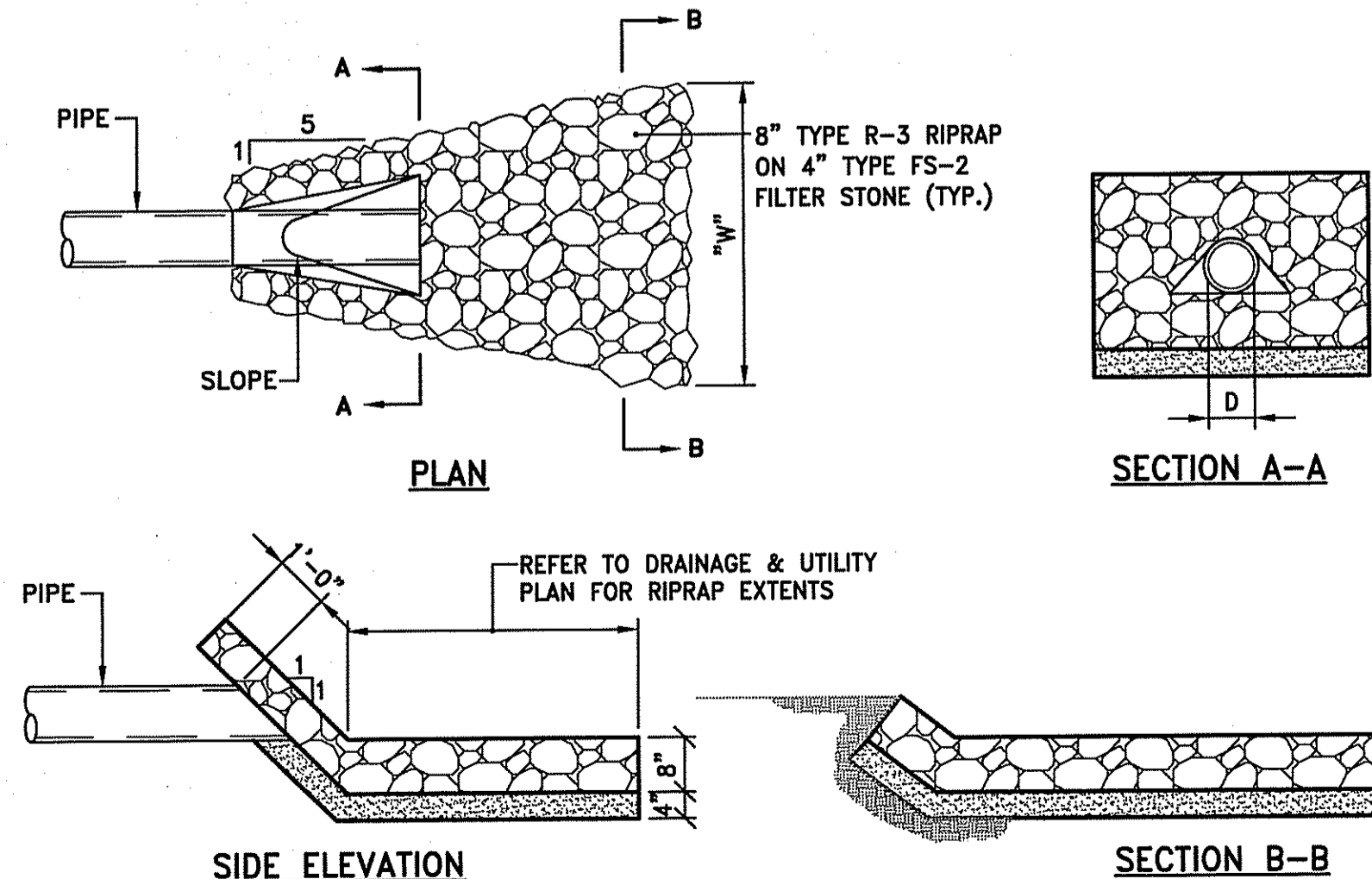
SEDIMENT FOREBAY CHECK DAM
NOT TO SCALE



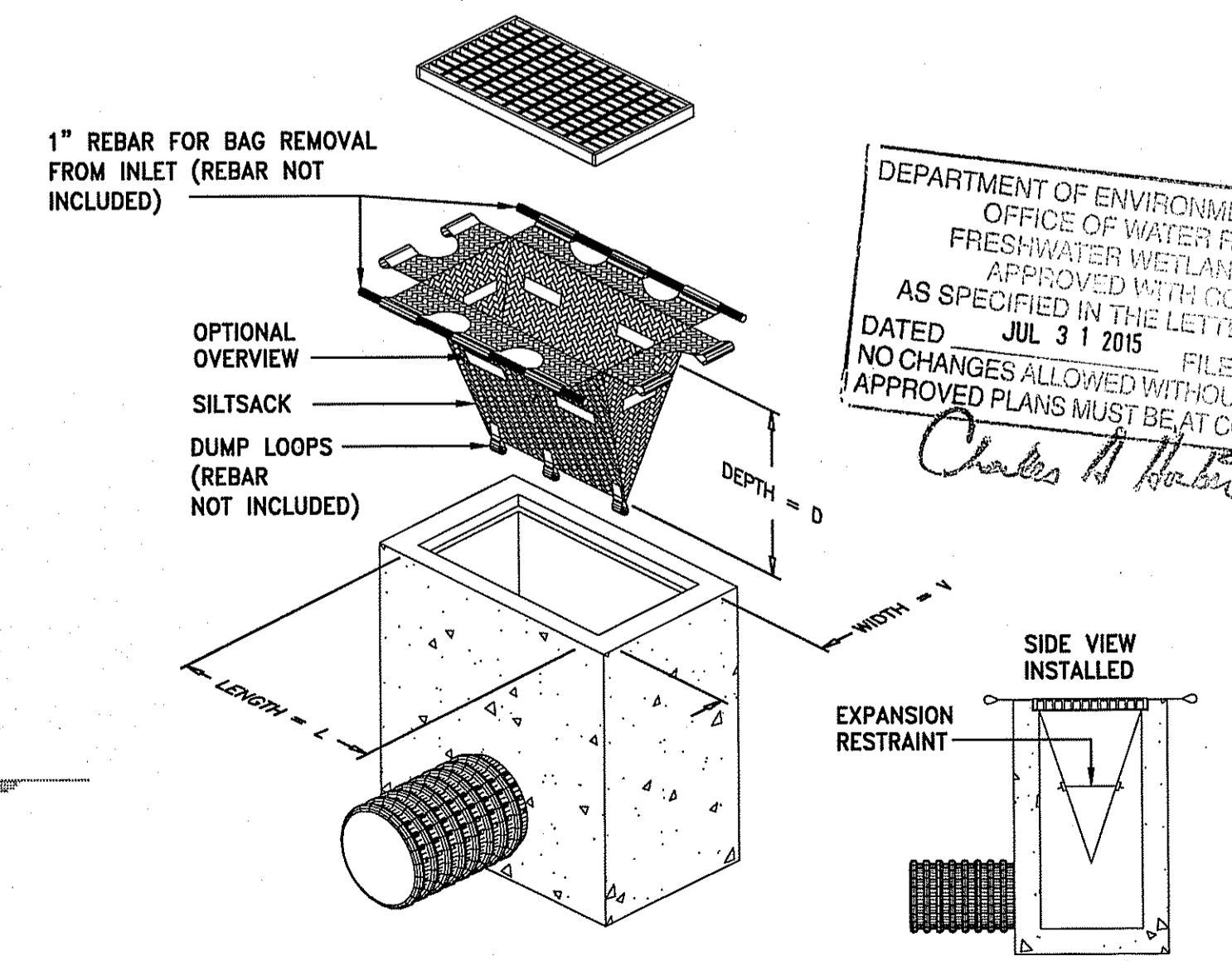
DMH-4 OUTLET CONTROL STRUCTURE (OCS) DETAIL
NOT TO SCALE



RIPRAP SLOPE STABILIZATION
NOT TO SCALE



RIPRAP LEVEL SPREADER
NOT TO SCALE



SILT SACK DETAIL
NOT TO SCALE

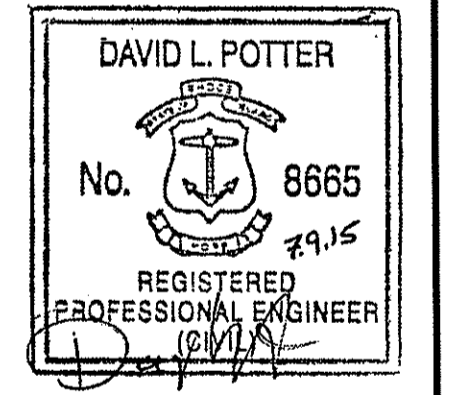
INSTALLATION DETAIL



Owner/Applicant
TOWN OF BRISTOL
10 COURT STREET
BRISTOL, RI 02809
(401) 253-7000

BRISTOL WARREN
REGIONAL SCHOOL
DISTRICT
151 STATE STREET
BRISTOL, RI 02809
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Athletic Fields Drainage Improvements
Mt. Hope High School
A.P. 117 Lots 4, 5, 6, & 10
199 Chestnut Street Bristol, Rhode Island

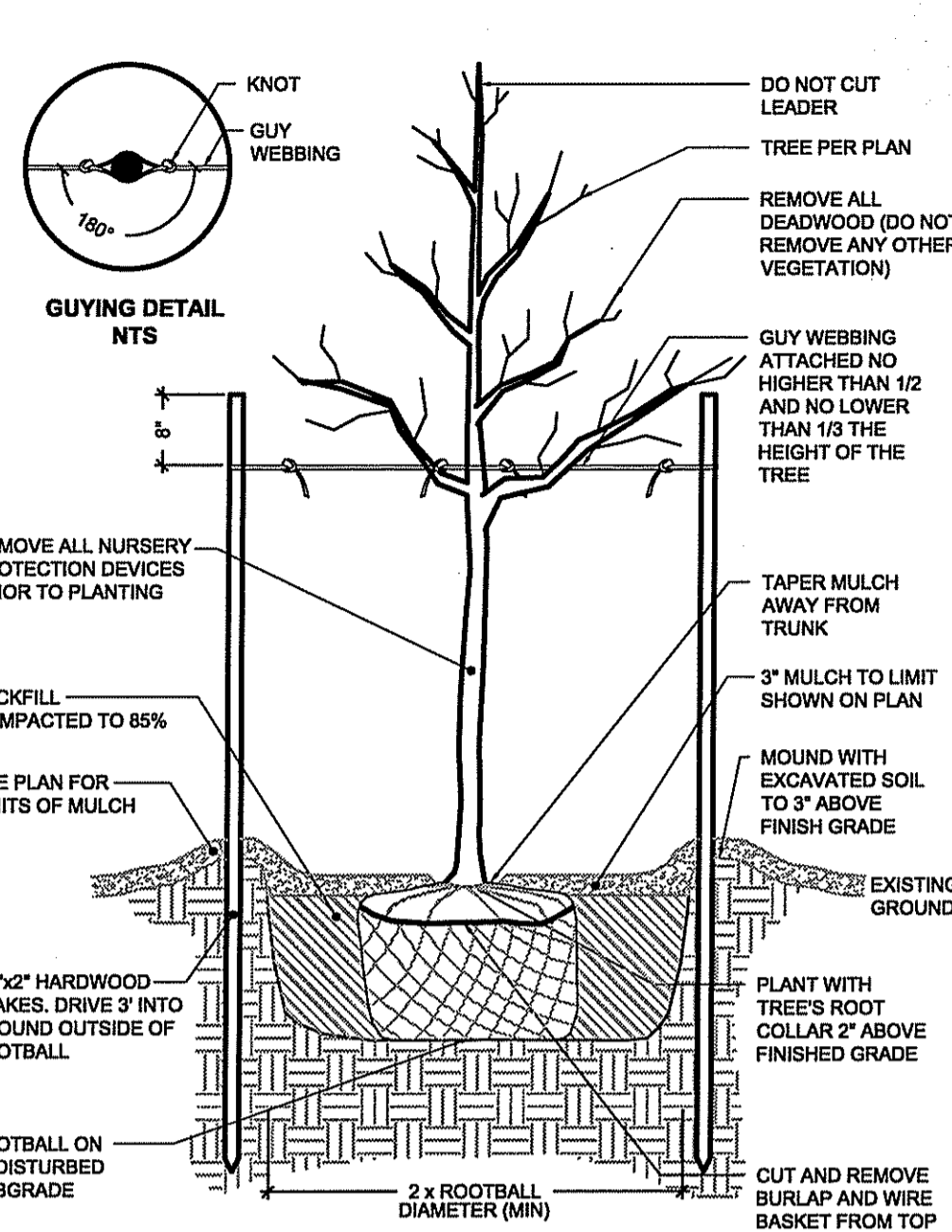


REVISIONS:

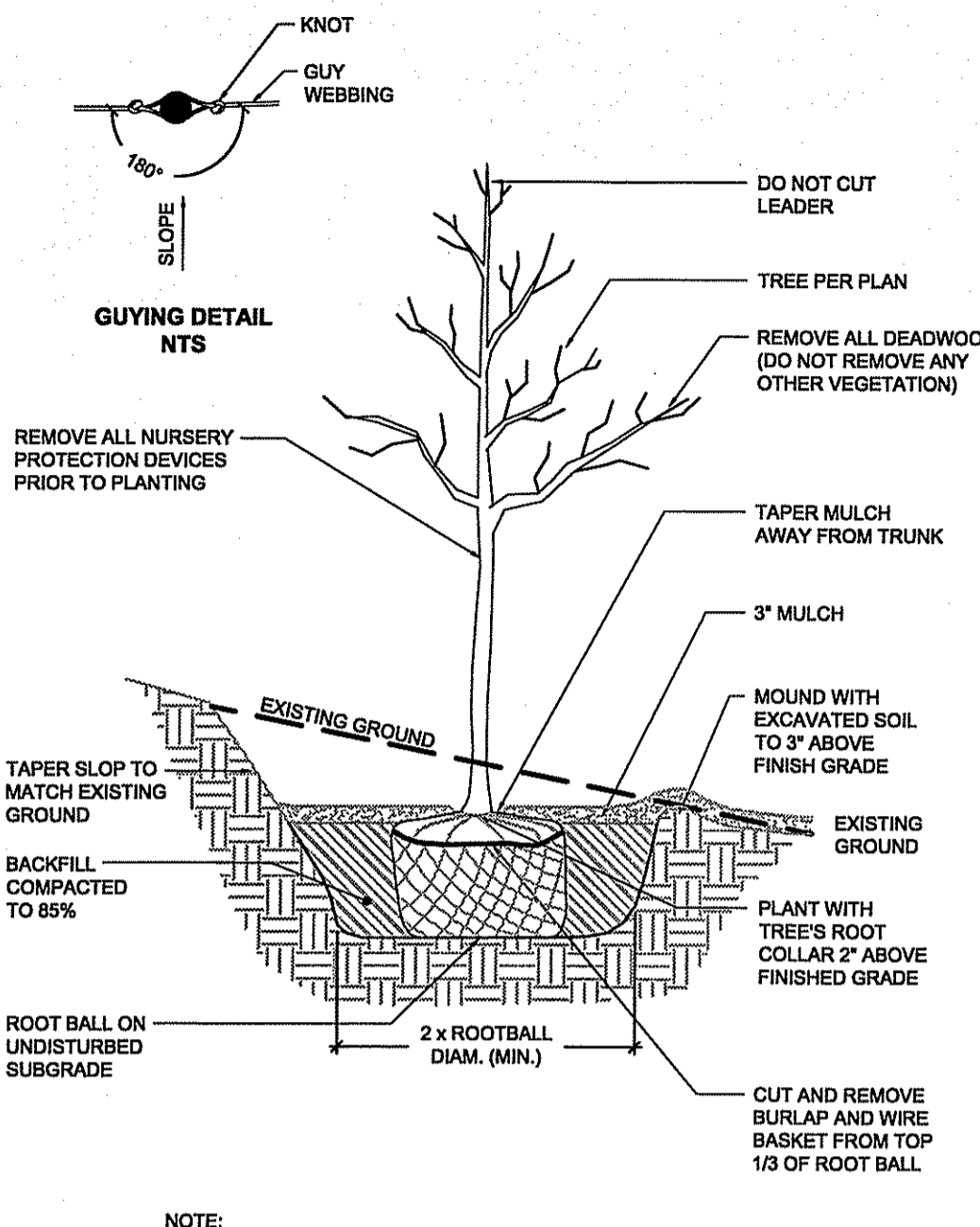
NO.	DESCRIPTION
1	ADD 10' WIDE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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FILE # 10-0119
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Charles H. Potter

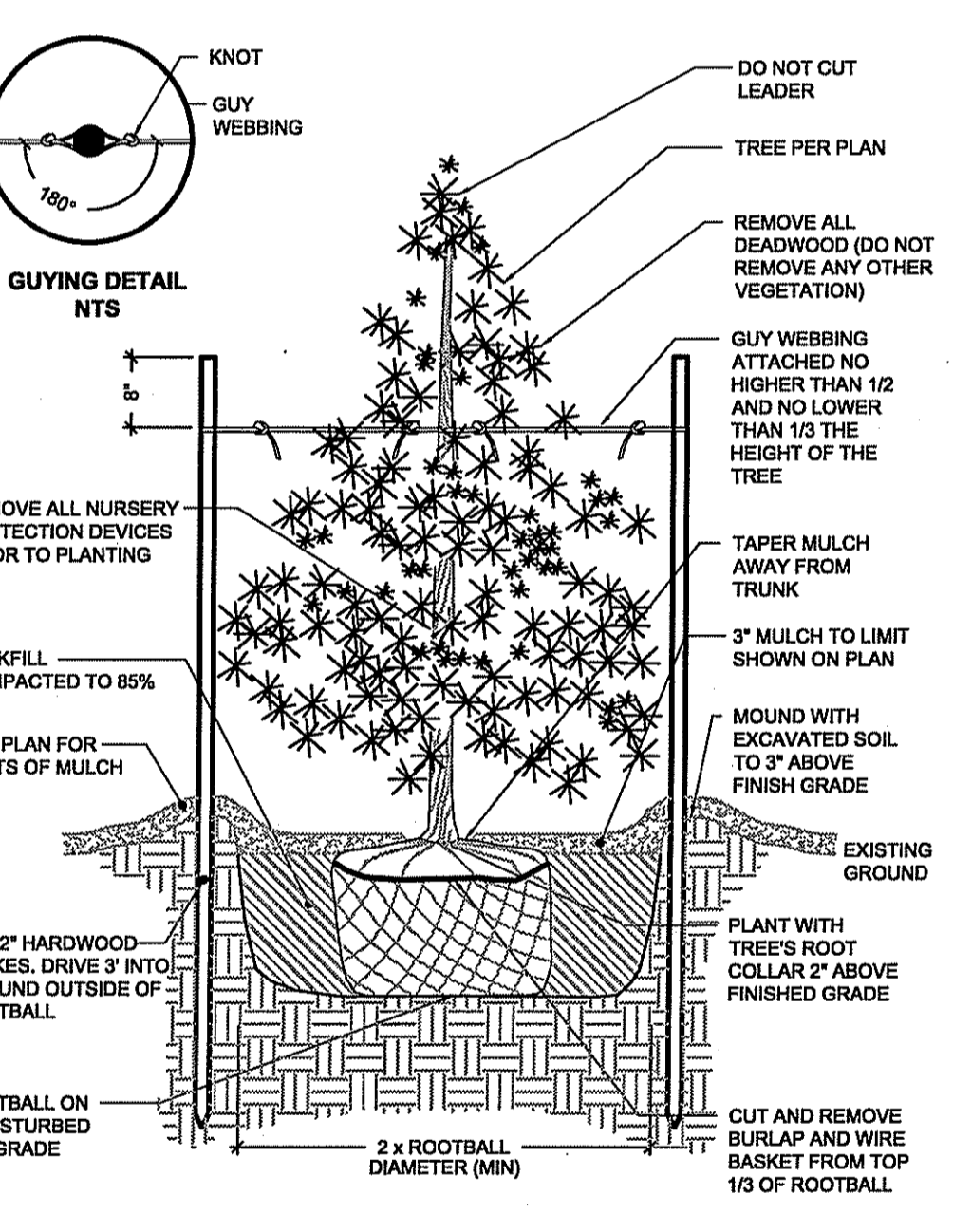
PROJECT NO.: 14234.00
DATE: JULY 9, 2015
SCALE: NOT TO SCALE
DESIGNED BY: RJS
CHECKED BY: DLP
DRAWN BY: AKL
APPROVED BY: JPS
DRAWING TITLE:
CIVIL DETAILS 2
DRAWING NO.:
SHEET NO. 8 OF 15



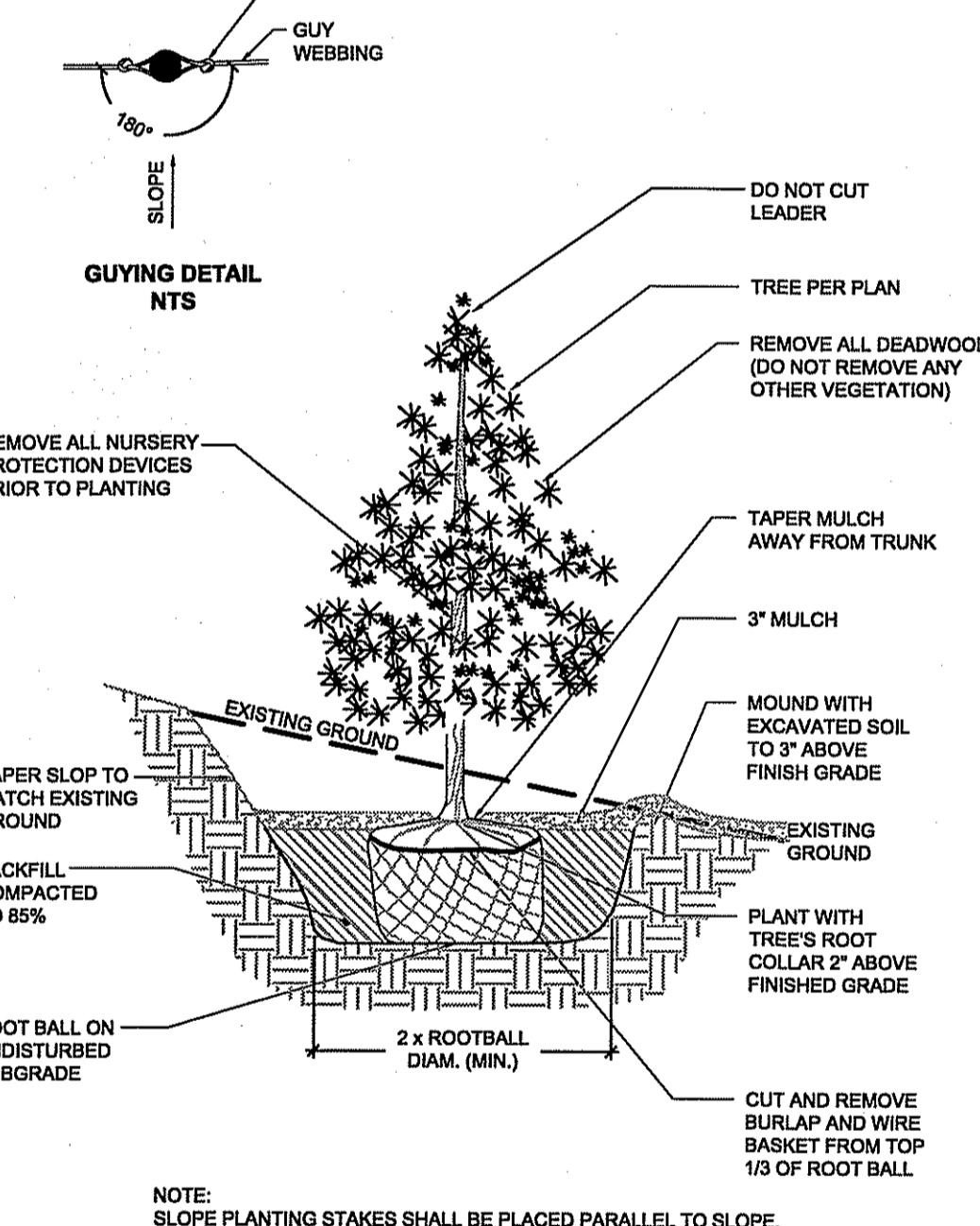
DECIDUOUS TREE STAKING & PLANTING
SCALE: NOT TO SCALE



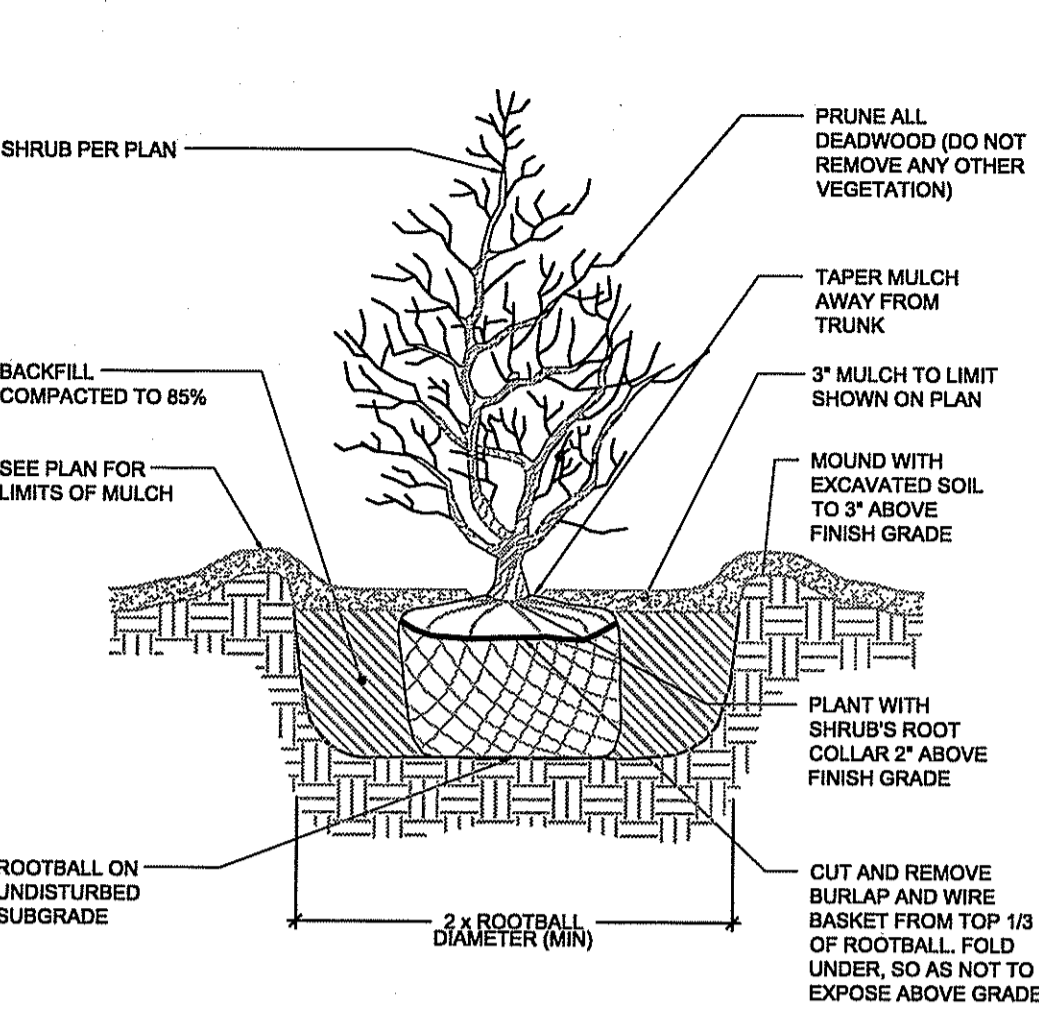
DECIDUOUS TREE PLANTING ON SLOPE
SCALE: NOT TO SCALE



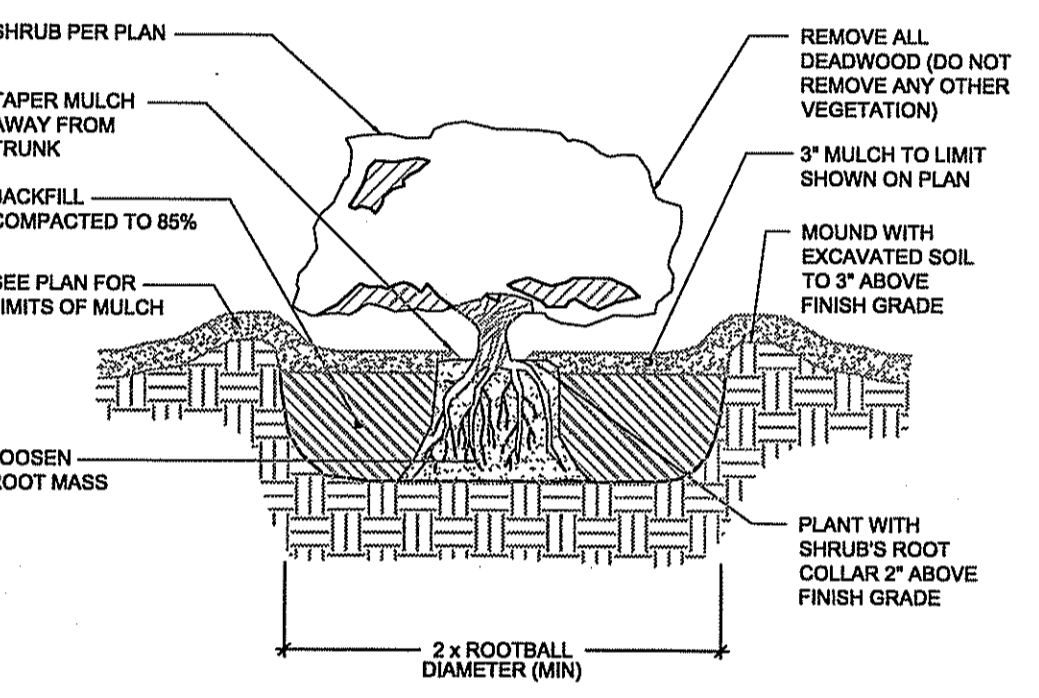
EVERGREEN TREE STAKING & PLANTING
SCALE: NOT TO SCALE



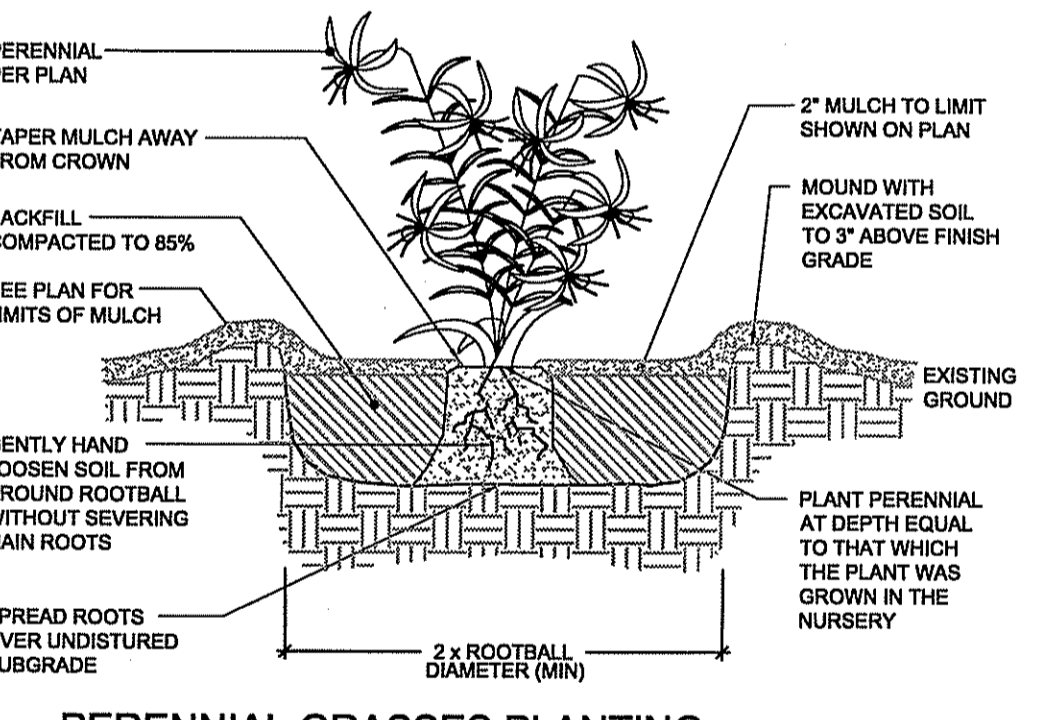
EVERGREEN TREE PLANTING ON SLOPE
SCALE: NOT TO SCALE



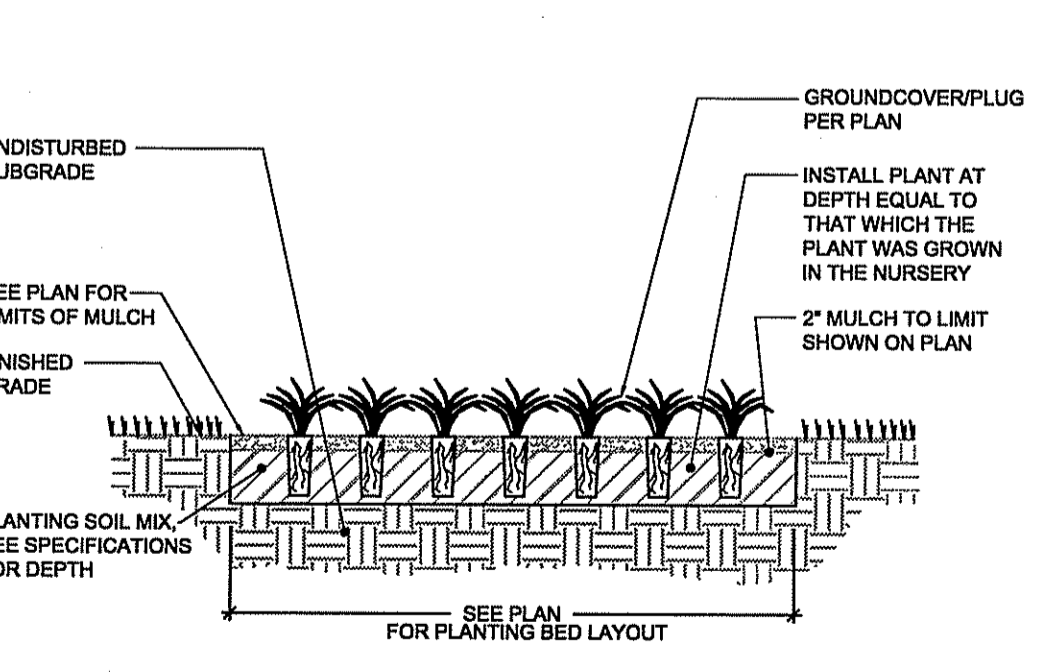
SHRUB PLANTING
SCALE: NOT TO SCALE



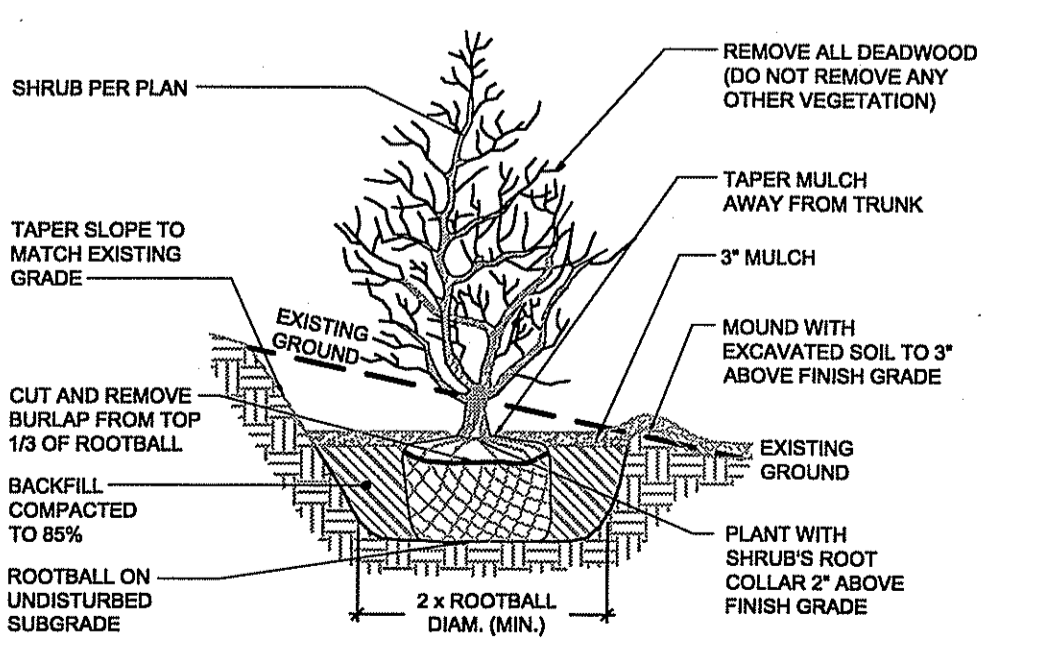
CONTAINER GROWN TREE & SHRUB PLANTING
SCALE: NOT TO SCALE



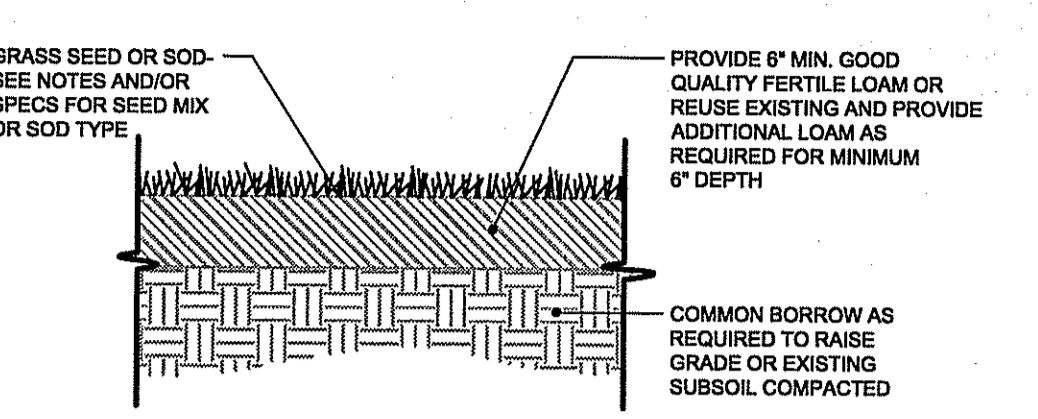
PERENNIAL GRASSES PLANTING
SCALE: NOT TO SCALE



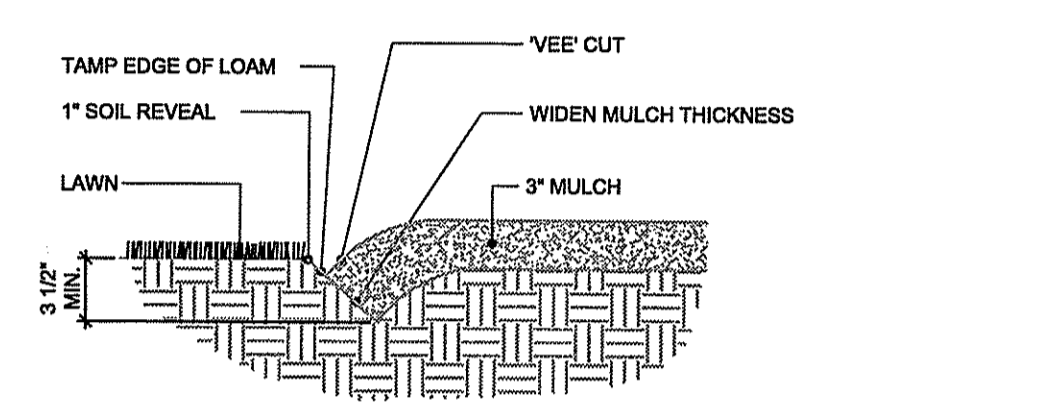
GROUNDCOVER AND PLUG PLANTING
SCALE: NOT TO SCALE



SHRUB PLANTING ON SLOPE
SCALE: NOT TO SCALE



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



BEDLINE EDGE
SCALE: NOT TO SCALE

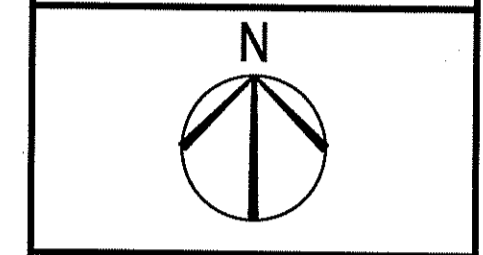
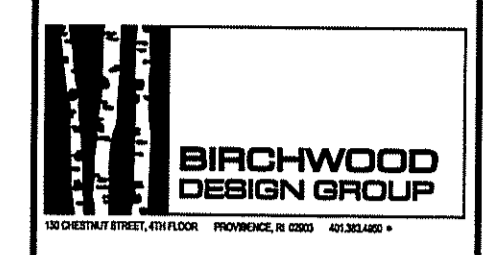
GENERAL NOTES:

- 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.
- Planting beds shall be excavated to a minimum depth of 12" and new loam and compost (50/50 mix) shall be incorporated into the planting bed to meet surrounding grades unless otherwise noted or detailed. 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 5' 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.
- Loam: Loam moved during the course of construction shall be retained and distributed within the site in accordance with the landscape plan. Stockpiled loam shall not be mixed with any subsoil, noxious weeds or unsuitable materials. 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 6.5 and 7.5. Organic content shall be a minimum of 5%.
- 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 4" unless otherwise noted on the plans. 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 unless otherwise noted on the plans or in the specifications. 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 as noted on this sheet.

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 the rates indicated per seed mix.
- 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.
- Pruning: The contractor shall employ a certified arborist to prune any existing roots or branches 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.
- 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 damage. Record locations of Dig-Safe utility line markings on project record documents.
- 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.
- 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.
- 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.
- 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.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED _____ FILE # 10-0119
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Hart



Athletic Fields Drainage Improvements
Mt. Hope High School
199 Chestnut Street
Bristol, Rhode Island



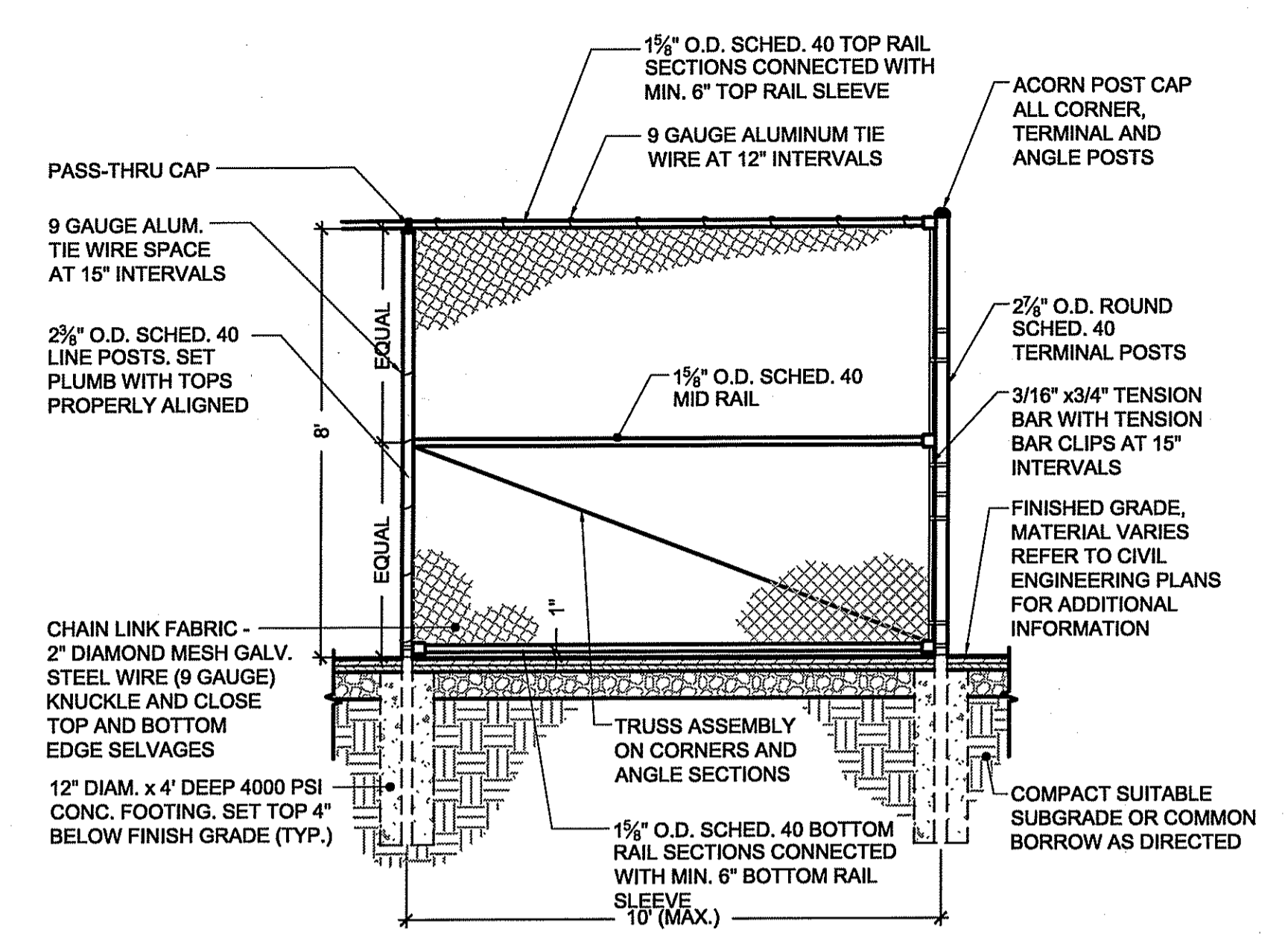
REVISIONS:

NO.	DATE	DESCRIPTION

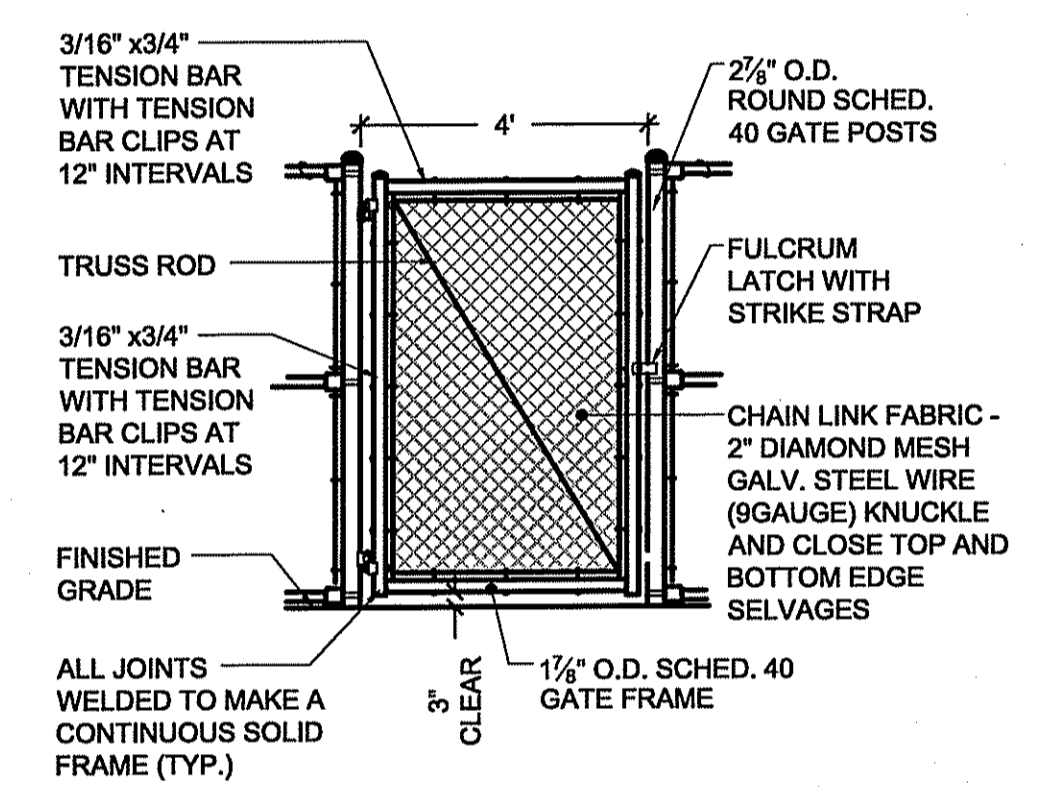
PROJECT NO.: 14234.00
DATE: July 9, 2015
SCALE: NTS
DESIGNED BY: AE
CHECKED BY: AE
DRAWN BY: JL
APPROVED BY: AE
DRAWING TITLE:

PLANTING DETAILS

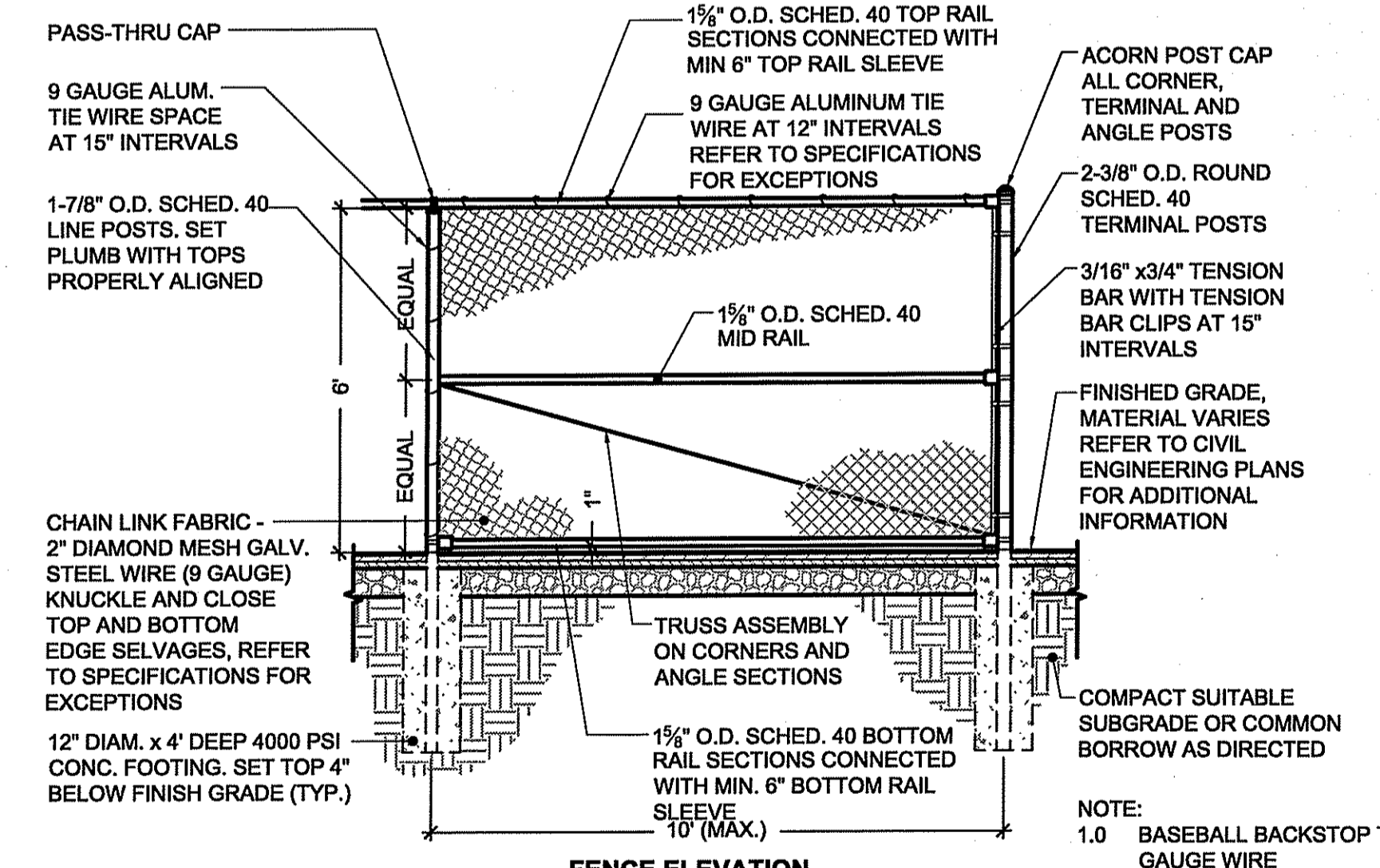
DRAWING NO.: L1.0
SHEET NO. 9 OF 15



1 8' BLACK VINYL CHAIN LINK FENCE
SCALE: 3/8"=1'

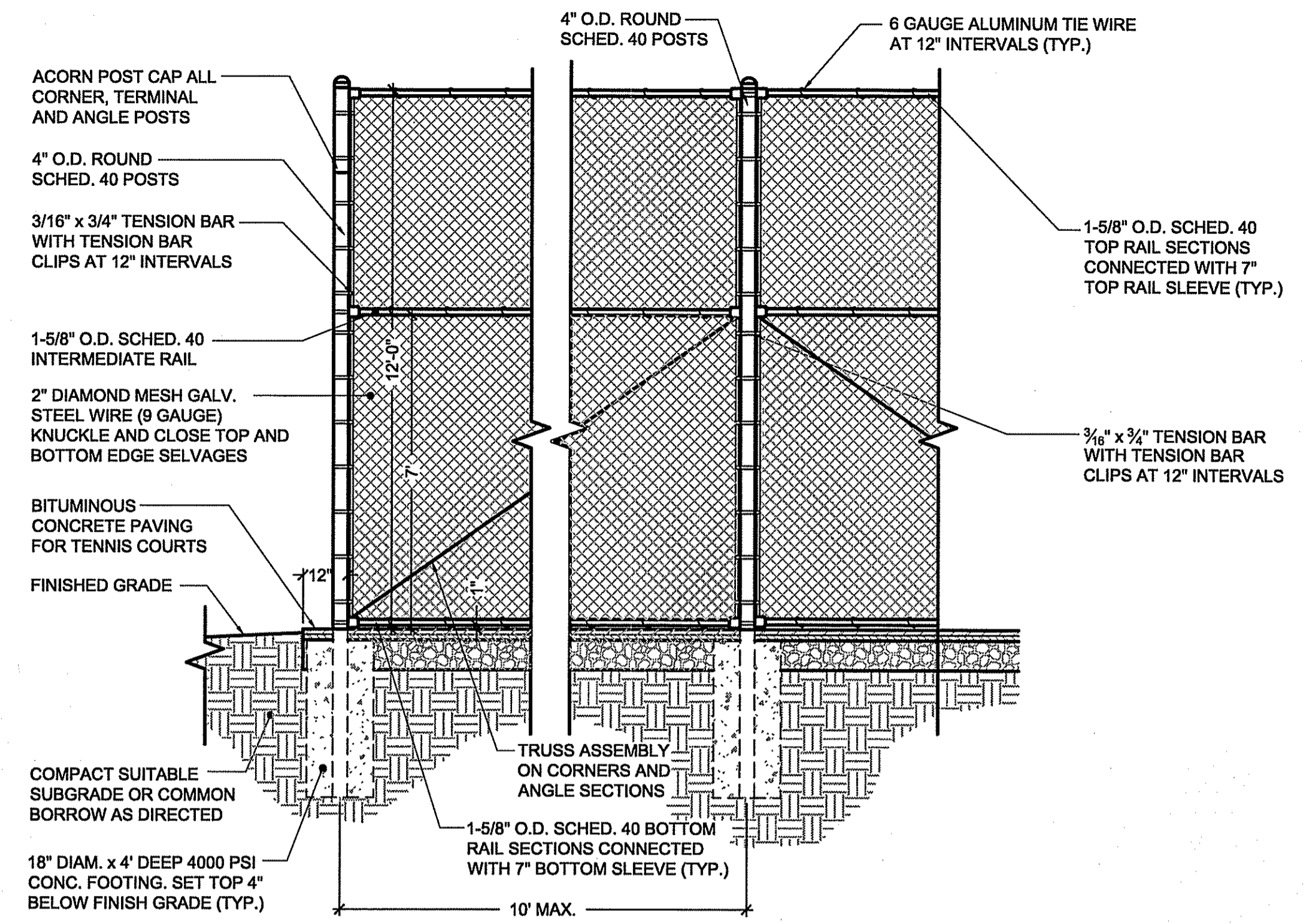


SINGLE GATE ELEVATION



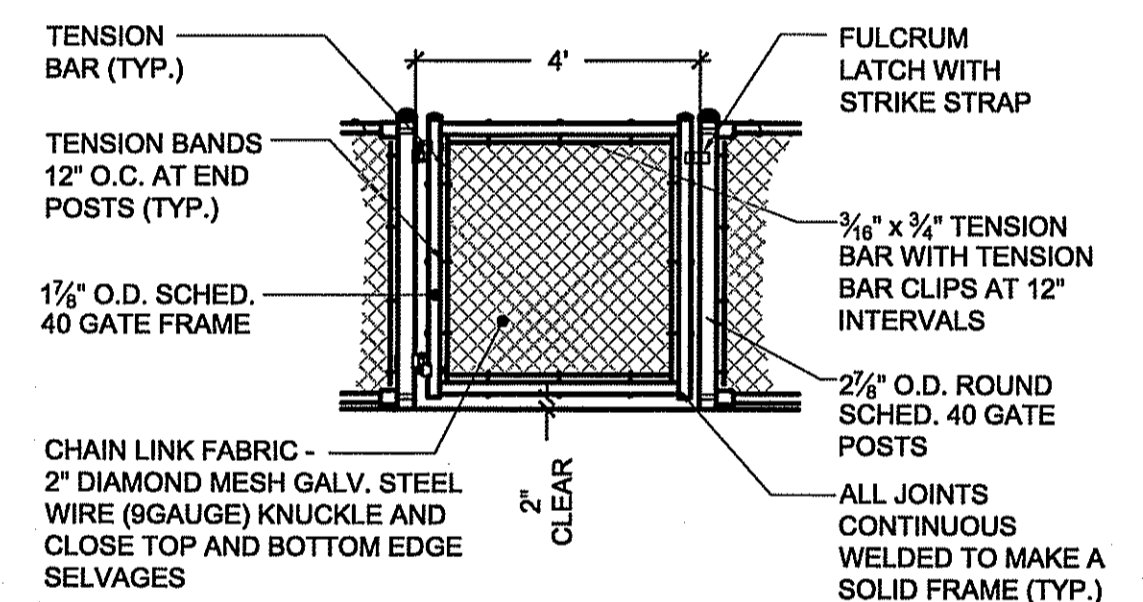
2 6' BLACK VINYL CHAIN LINK FENCE
SCALE: 3/8"=1'

- NOTE:**
- 1.0 BASEBALL BACKSTOP TO HAVE SIX (6) GAUGE WIRE
 - 2.0 TENNIS COURT FENCING TO HAVE ELEVEN (11) GAUGE WIRE WITH 1-3/4" OPENING
 - 3.0 6' FENCING ON WESTERN EDGE OF PROPERTY TO BE 9 GAUGE WIRE WITH 1" DIAMOND MESH

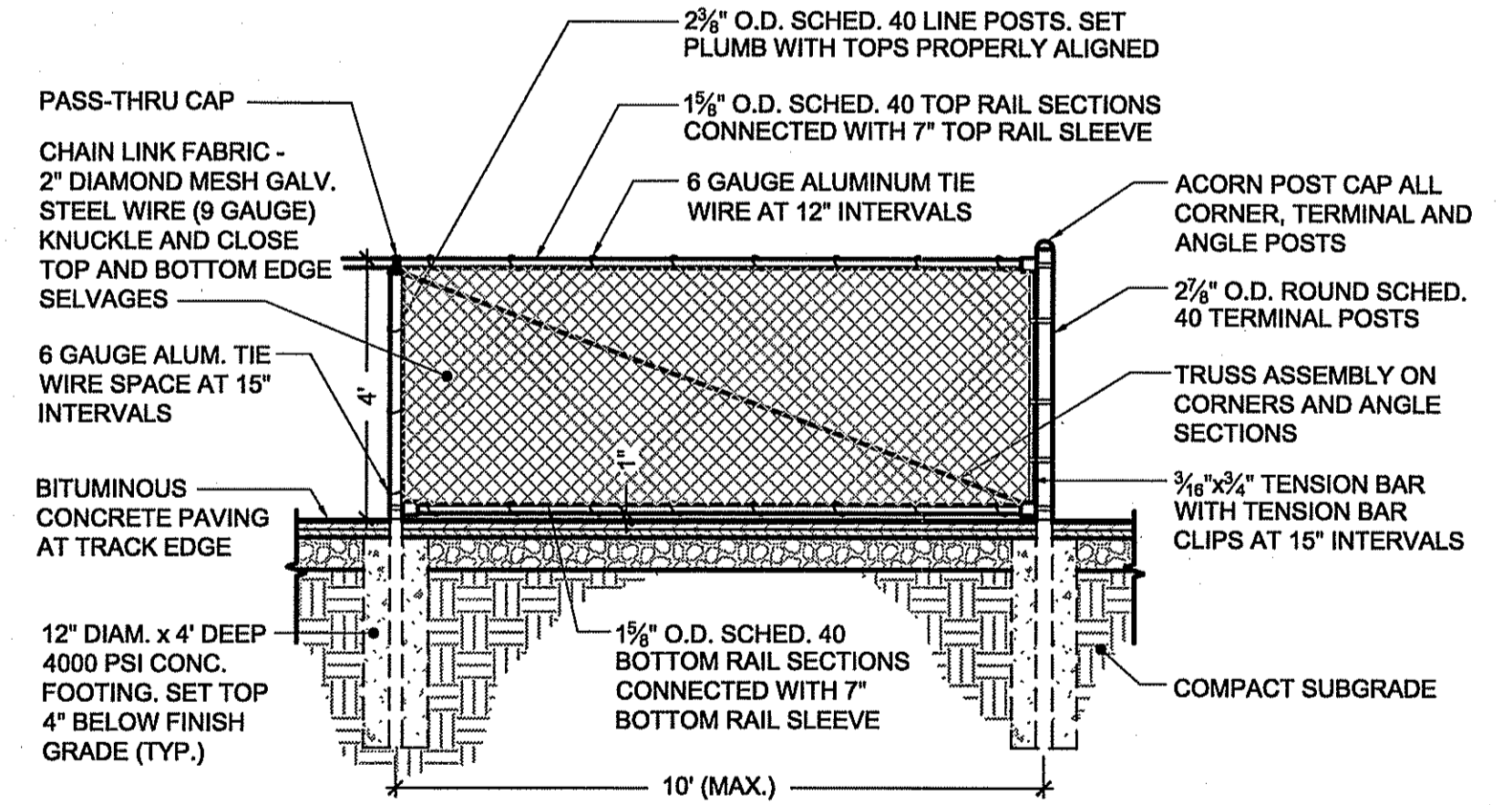


SINGLE ENTRANCE GATE

3 12' BLACK VINYL CHAIN LINK FENCE
SCALE: 3/8"=1'



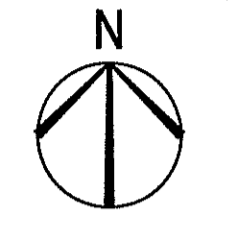
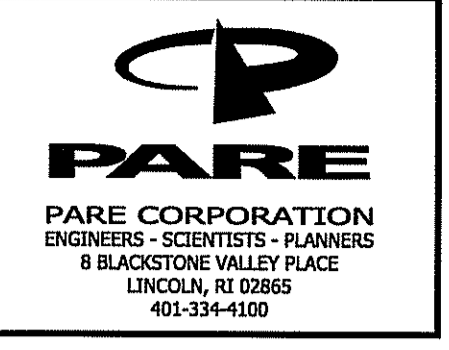
GATE ELEVATION



4 4' BLACK VINYL CHAIN LINK FENCE
SCALE: 3/8"=1'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 31 2015 FILE # 10-019
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles H. Hester



Athletic Fields Drainage Improvements
Mt. Hope High School
199 Chestnut Street
Bristol, Rhode Island

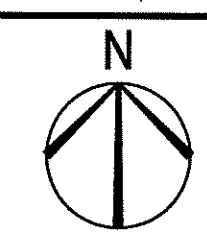


REVISIONS:

NO.	DATE	DESCRIPTION

PROJECT NO.: 14234.00
DATE: July 9, 2015
SCALE: NTS
DESIGNED BY: AE
CHECKED BY: AE
DRAWN BY: JL
APPROVED BY: AE
DRAWING TITLE:

LANDSCAPE
DETAIL SHEET 1
DRAWING NO.: L1.1
SHEET NO. 10 OF 15



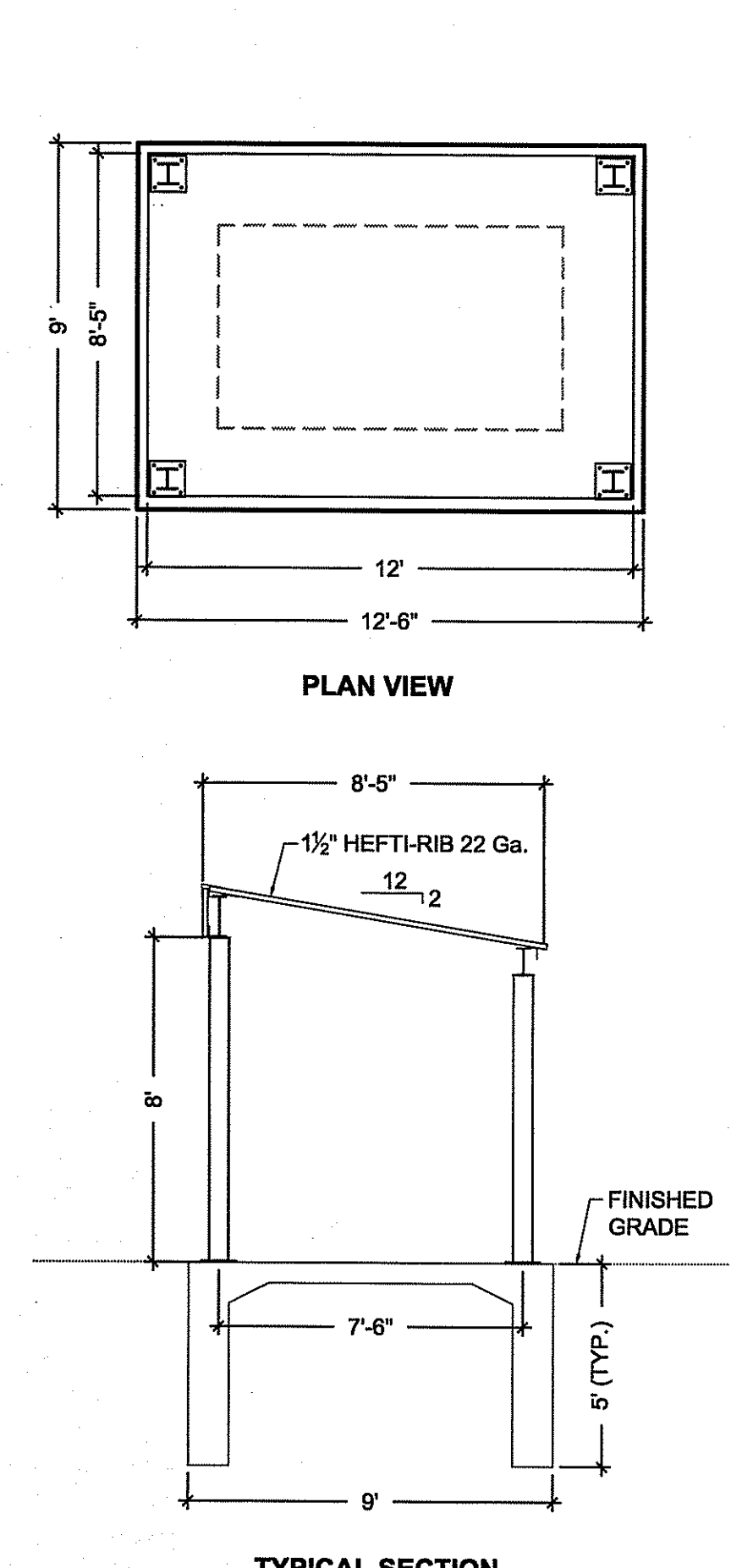
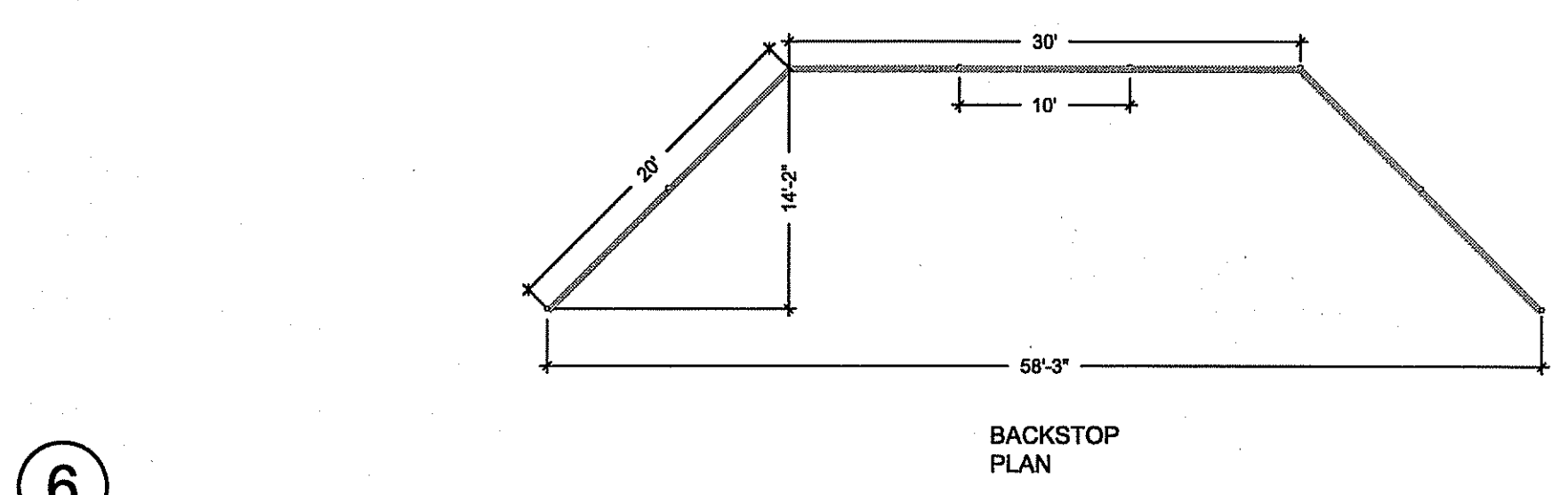
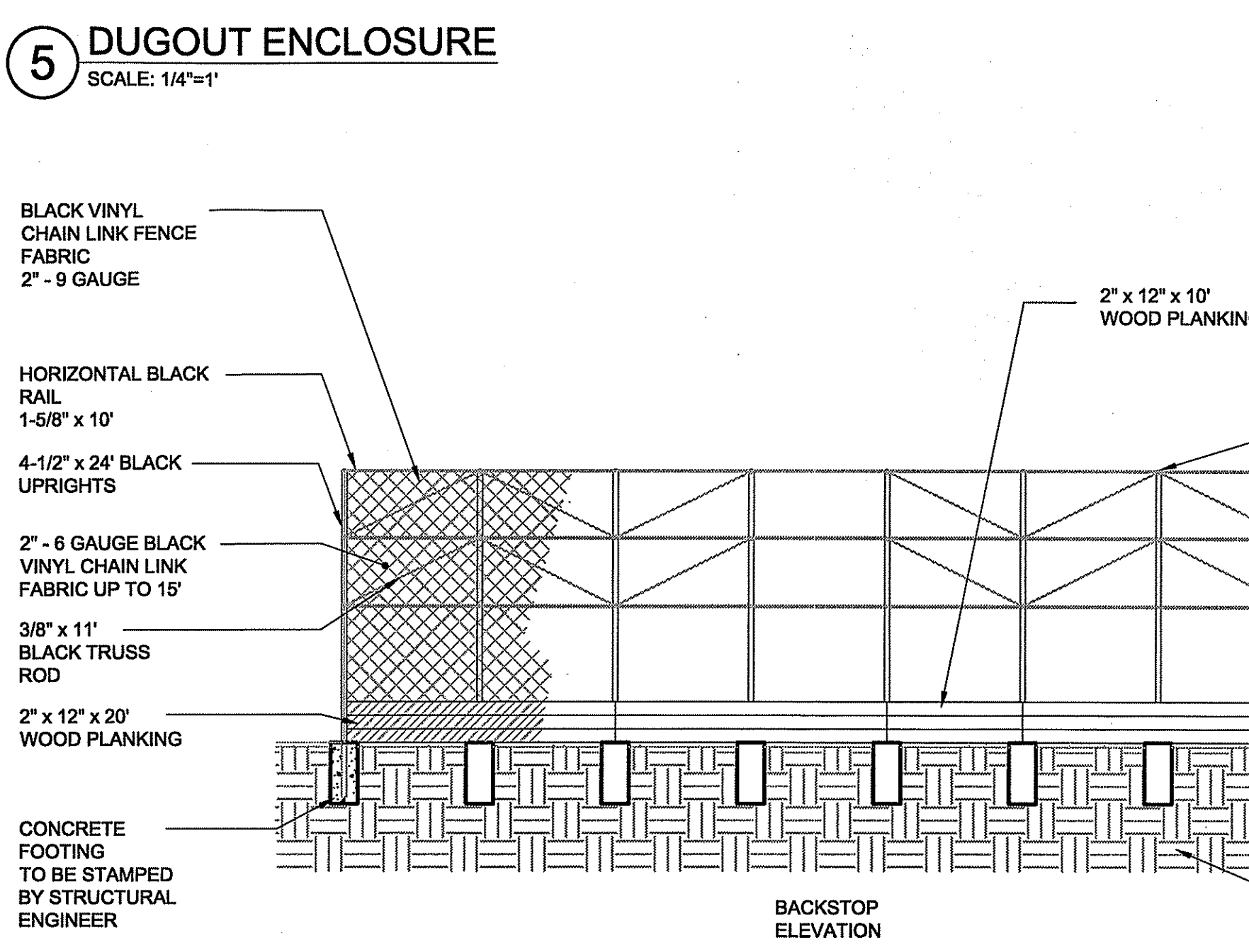
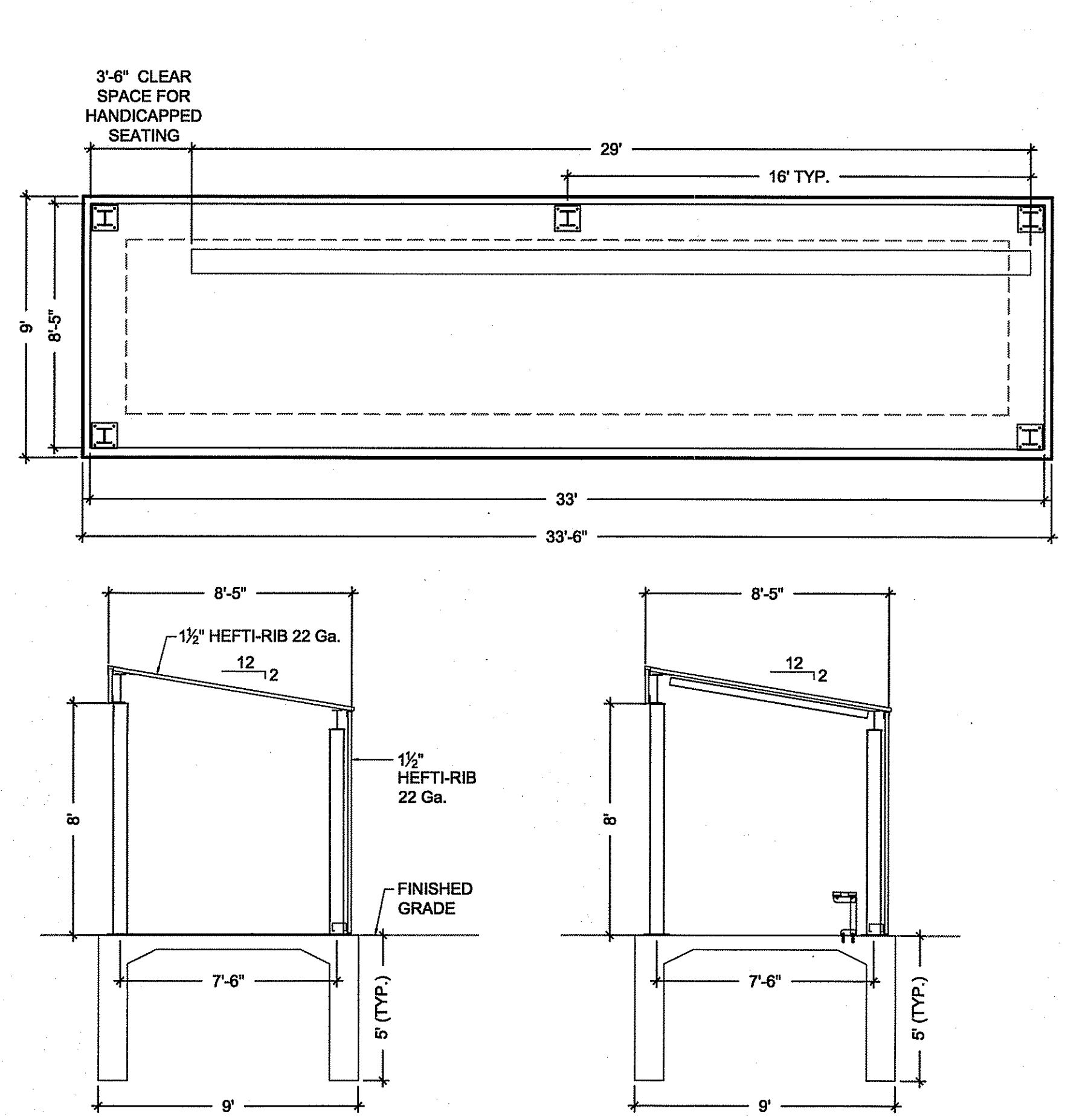
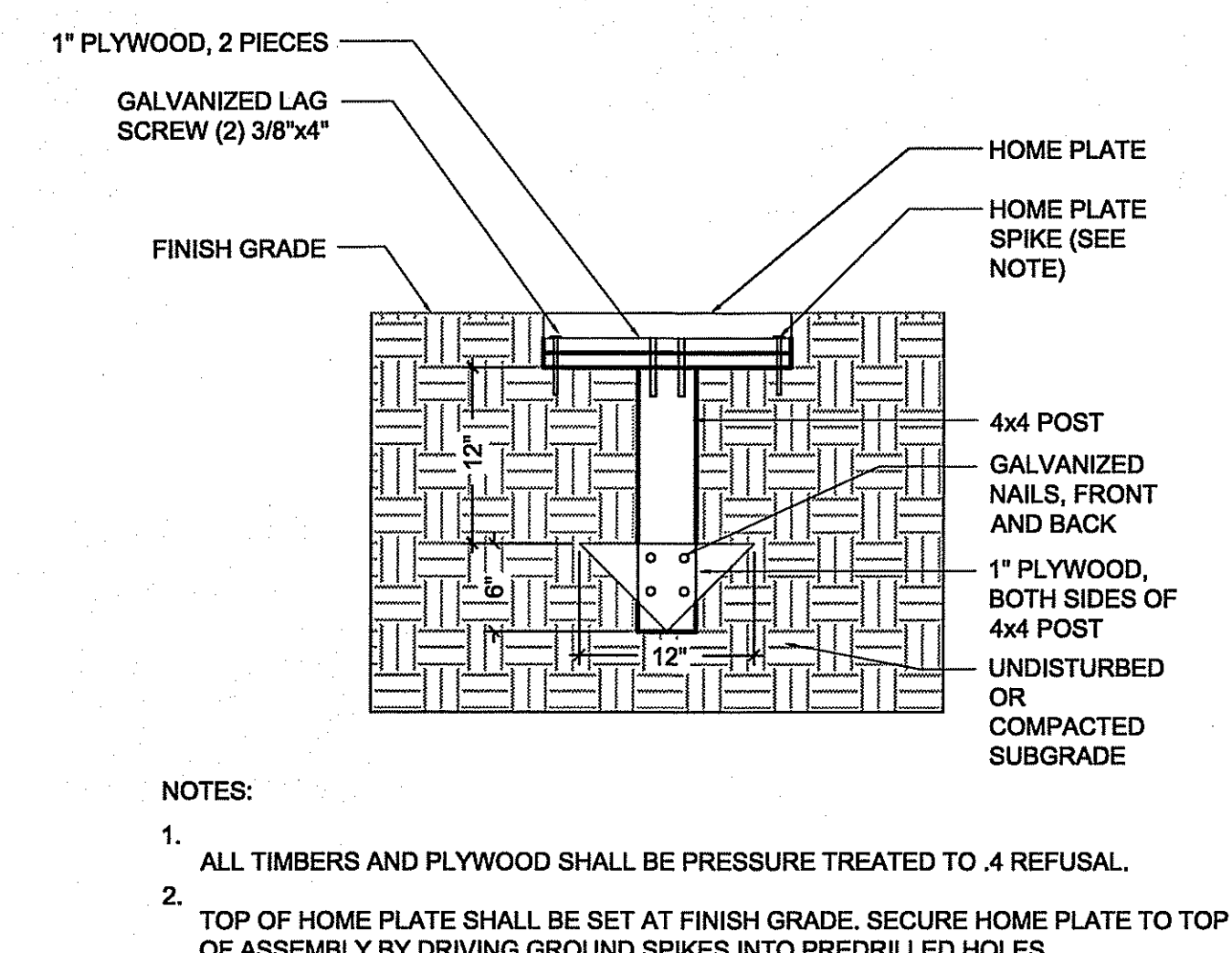
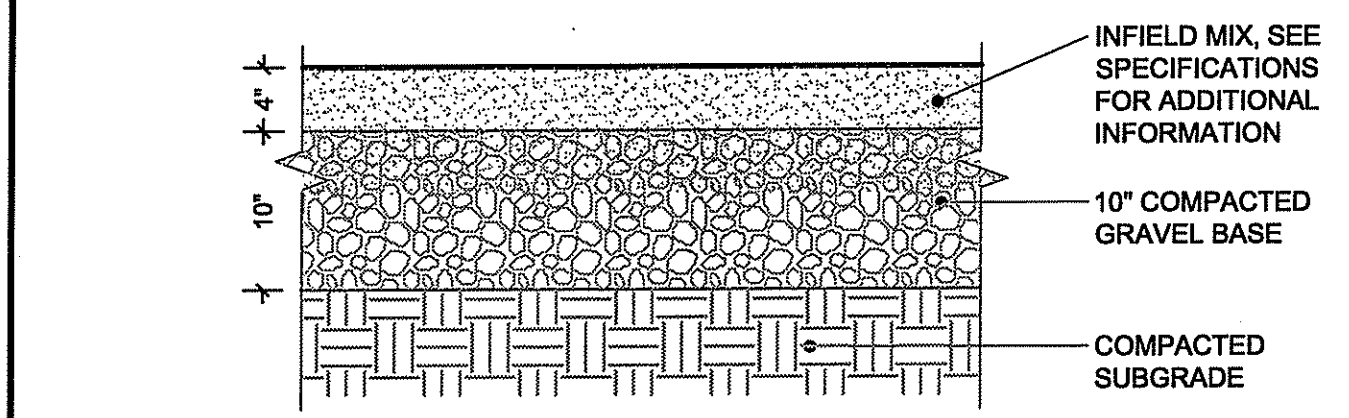
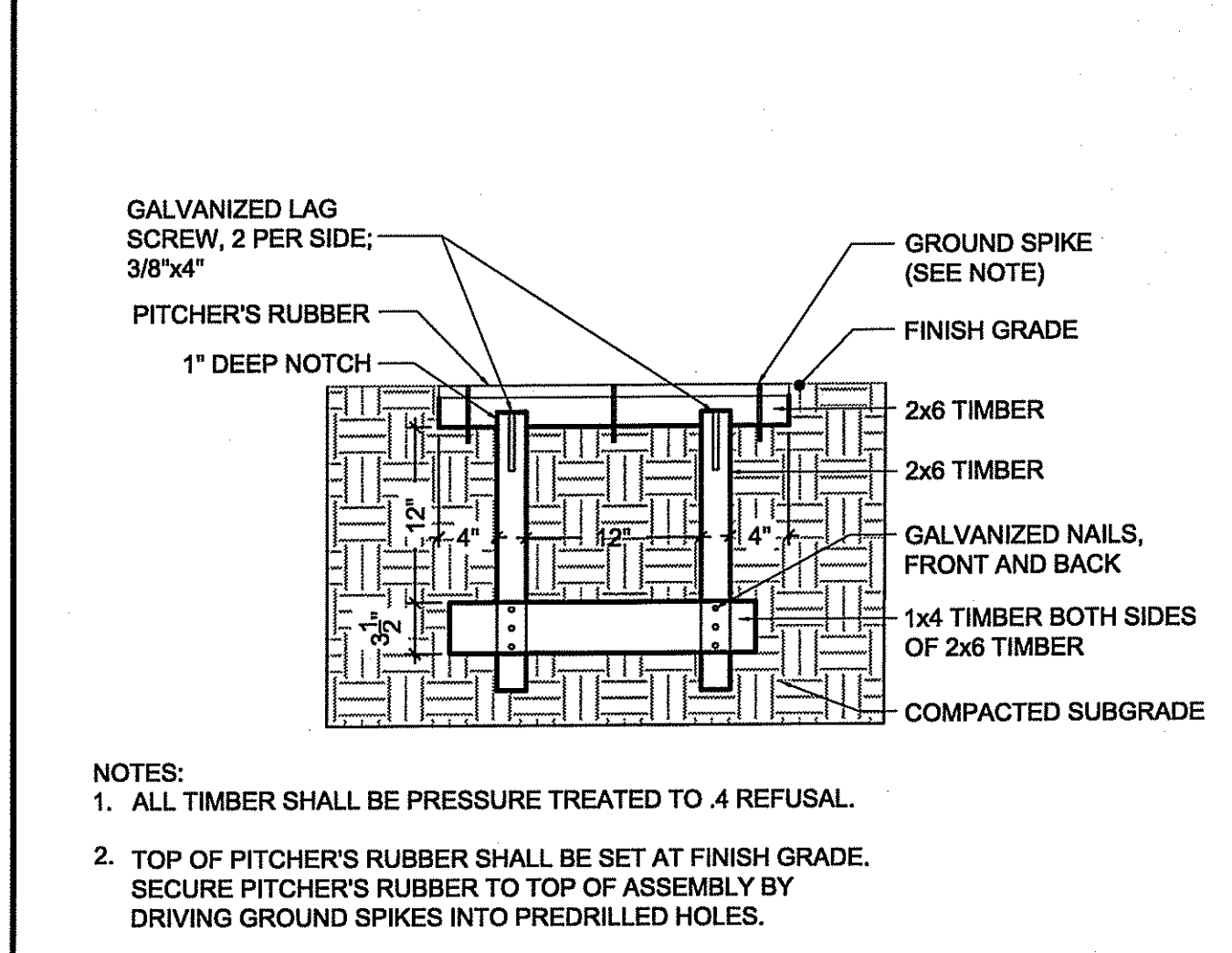
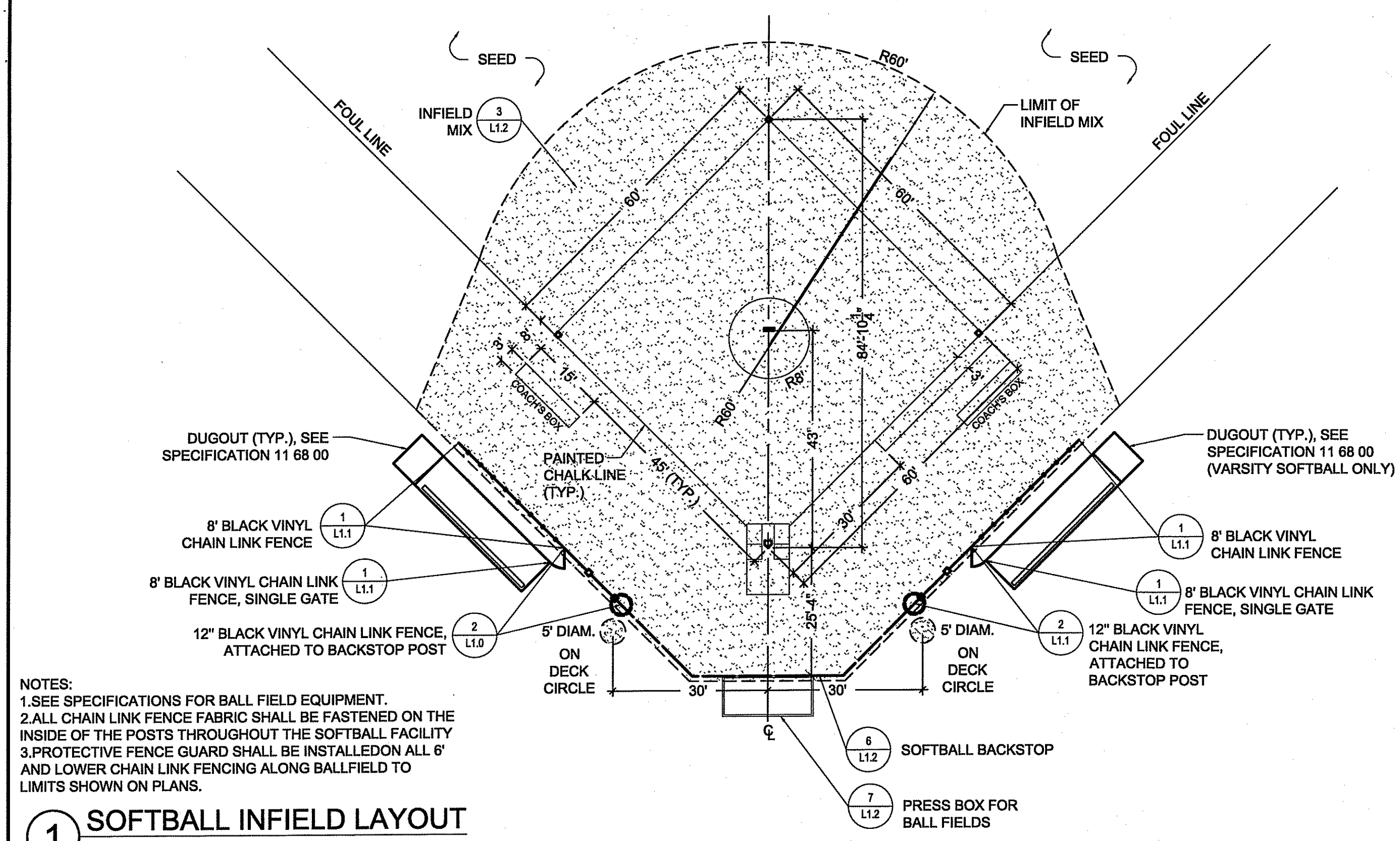
Athletic Fields Drainage Improvements
Mt. Hope High School
 199 Chestnut Street
 Bristol, Rhode Island



REVISIONS:

NO.	DESCRIPTION	DATE

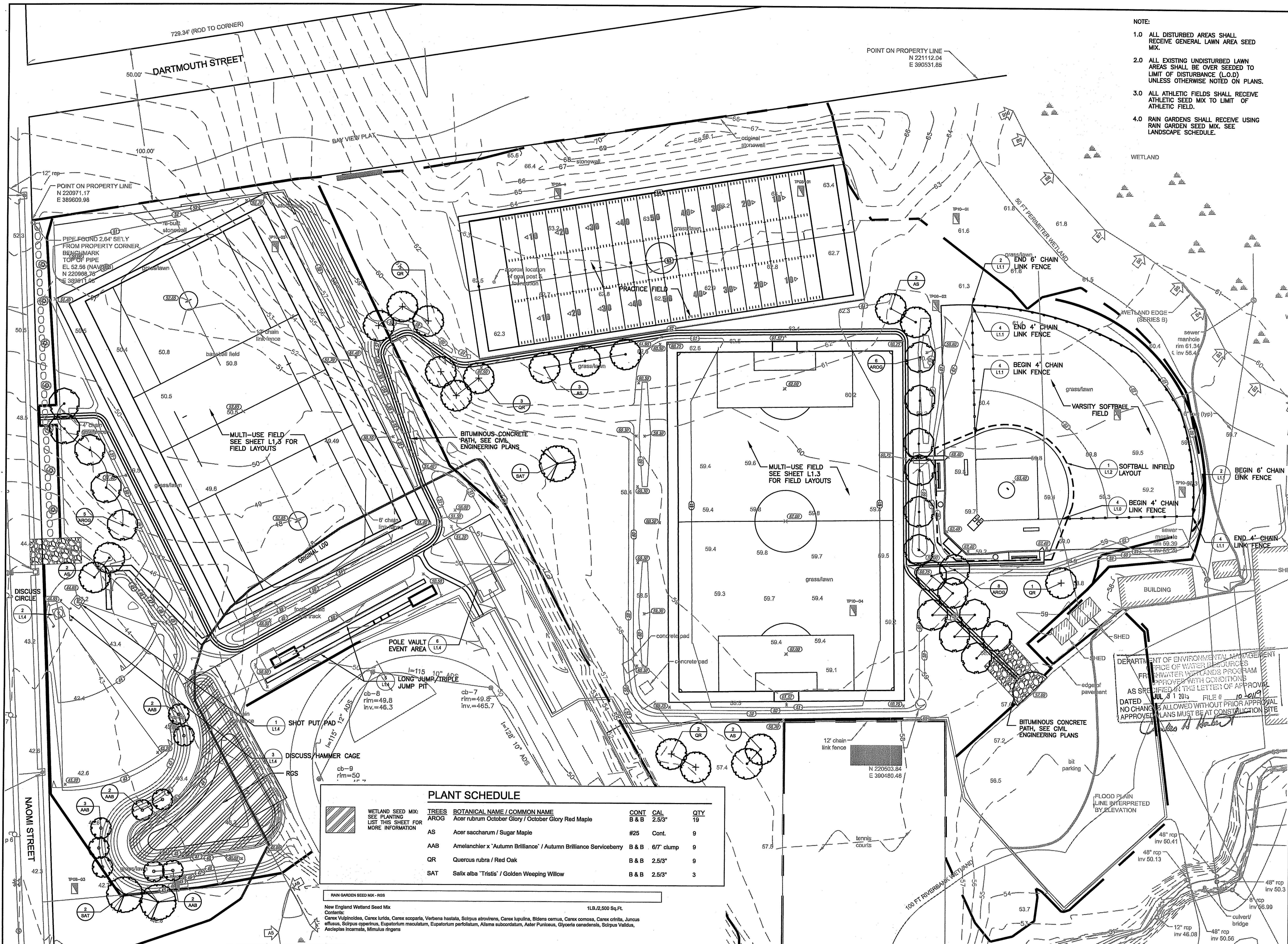
PROJECT NO.: 14234.00
 DATE: July 9, 2015
 SCALE: NTS
 DESIGNED BY: AE
 CHECKED BY: AE
 DRAWN BY: JL
 APPROVED BY: AE
 DRAWING TITLE:



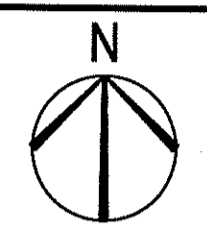
6 SOFTBALL BACKSTOP
 SCALE: 1"=10'

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



- NOTE:
- 1.0 ALL DISTURBED AREAS SHALL RECEIVE GENERAL LAWN AREA SEED MIX.
 - 2.0 ALL EXISTING UNDISTURBED LAWN AREAS SHALL BE OVER SEED TO LIMIT OF DISTURBANCE (L.O.D) UNLESS OTHERWISE NOTED ON PLANS.
 - 3.0 ALL ATHLETIC FIELDS SHALL RECEIVE ATHLETIC SEED MIX TO LIMIT OF ATHLETIC FIELD.
 - 4.0 RAIN GARDENS SHALL RECEIVE USING RAIN GARDEN SEED MIX. SEE LANDSCAPE SCHEDULE.



Athletic Fields Drainage Improvements
 Mt. Hope High School
 189 Chestnut Street
 Bristol, Rhode Island



REVISIONS:

NO.	DATE	DESCRIPTION

PROJECT NO.: 14234.00
 DATE: July 9, 2015
 SCALE: 1"=40'-0"
 DESIGNED BY: AE
 CHECKED BY: AE
 DRAWN BY: JL
 APPROVED BY: AE
 DRAWING TITLE:

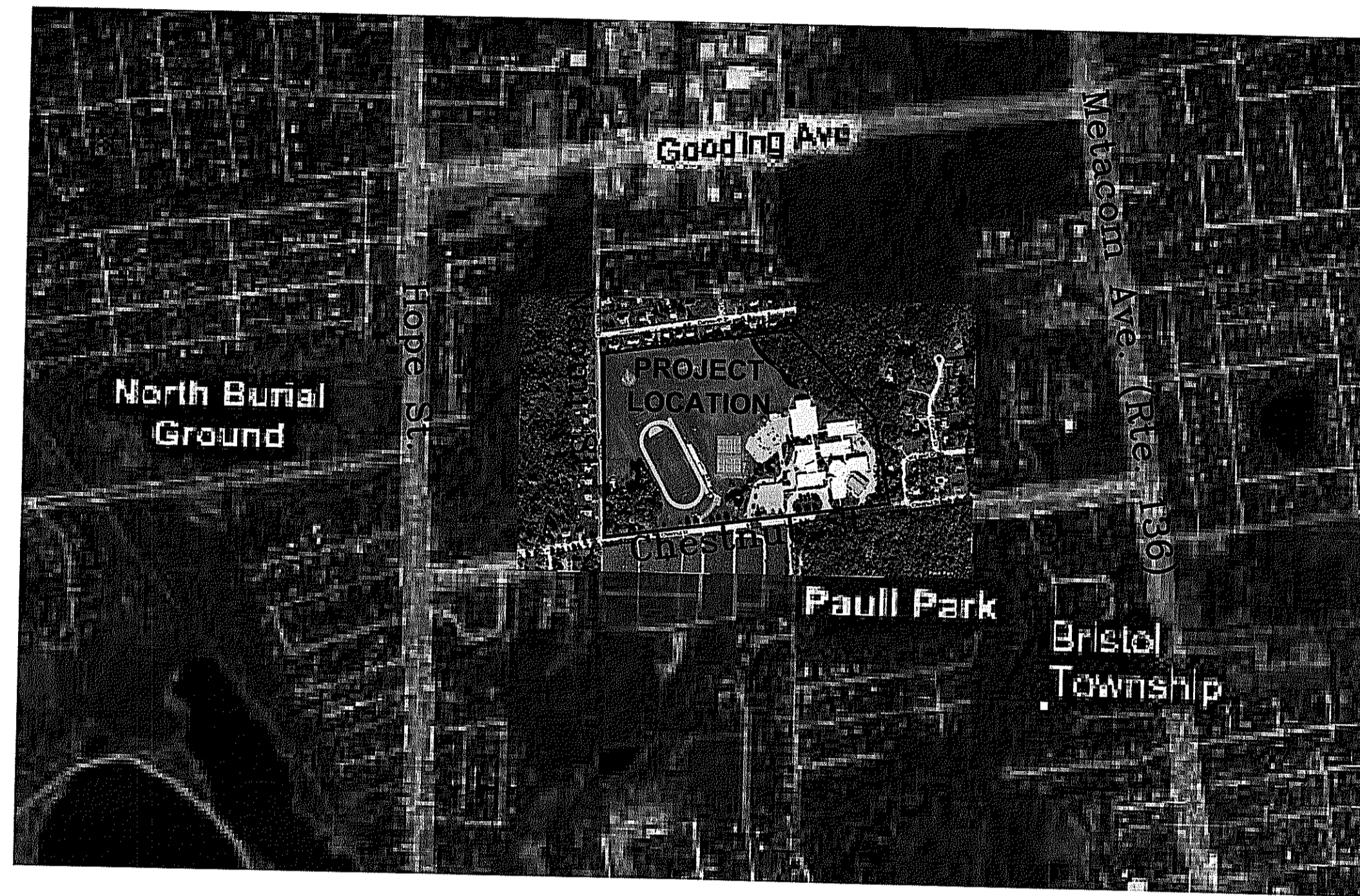
HARDSCAPE AND PLANTING PLAN
 DRAWING NO.: L2.0
 SHEET NO. 15 OF 15

TREES	BOTANICAL NAME / COMMON NAME	CONT	CAL	QTY
AROG	Acer rubrum October Glory / October Glory Red Maple	B & B	2.5/3"	19
AS	Acer saccharum / Sugar Maple	#25	Cont.	9
AAB	Amelanchier x 'Autumn Brilliance' / Autumn Brilliance Serviceberry	B & B	6/7" clump	9
QR	Quercus rubra / Red Oak	B & B	2.5/3"	9
SAT	Salix alba 'Tristis' / Golden Weeping Willow	B & B	2.5/3"	3

RAIN GARDEN SEED MIX - RGB
 New England Wetland Seed Mix
 Contains:
 Carex vulpinoidea, Carex lurida, Carex scoparia, Verbena hastata, Scirpus atrovirens, Carex lupulina, Bidens cernua, Carex comosa, Carex crinita, Juncus effusus, Scirpus cyperinus, Eupatorium maculatum, Eupatorium perfoliatum, Alisma subcordatum, Aster paniculatus, Glycyrrhiza canadensis, Scirpus validus, Asclepias incarnata, Mimulus ringens
 1LB./2,500 Sq.Ft.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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 AS SPECIFIED IN THIS LETTER OF APPROVAL
 DATED JUL 9 2015 FILE # 10-2019
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MOUNT HOPE HIGH SCHOOL ATHLETIC FIELD IMPROVEMENTS BRISTOL, RHODE ISLAND



Maguire Group Inc.
Architects/Engineers/Planners
225 Chapman Street
Providence, Rhode Island 02905

DECEMBER, 2010

**THE GIFFORD
DESIGN GROUP, Inc.**
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL PLANNING
408 MENDON ROAD, CUMBERLAND, RHODE ISLAND 02864
PHONE (401) 871-0200 FAX (401) 871-6466

LIST OF DRAWINGS

GENERAL

- G1 TITLE, LIST OF DRAWINGS, VICINITY MAP
- G2 GENERAL NOTES, SYMBOLS AND LEGEND

CIVIL

- C01 EXISTING CONDITIONS PLAN
- C02 SITE LAYOUT PLAN
- C03 SUB-SURFACE GRADING PLAN
- C04 SURFACE GRADING PLAN
- C05 IRRIGATION WATER SERVICE LINE LOCATION
- C06 EROSION & SEDIMENTATION CONTROL PLAN 01
- C07 EROSION & SEDIMENTATION CONTROL PLAN 02
- C08 DETAILS 01

LANDSCAPE

- L01 LANDSCAPE PLAN
- L02 LANDSCAPE DETAILS

FILE COPY
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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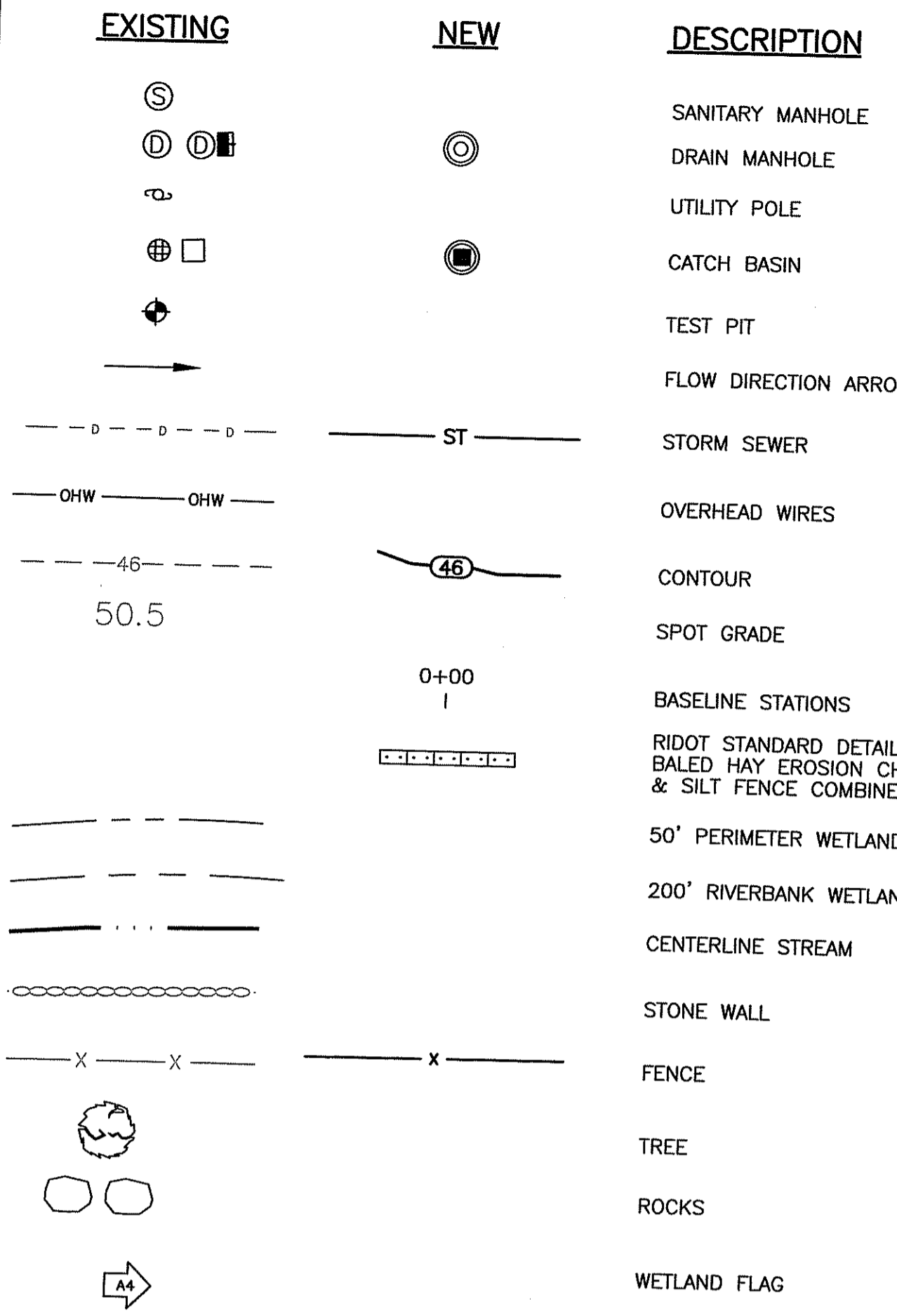
Charles A. Harte

Environmental Management
DEC 20 2010
Office of Water Resources

WILLIAM G. YOUNG
No. 7867
REGISTERED
PROFESSIONAL ENGINEER
(CIVIL)

10-20-2010
RIDEM APPLICATION No. 10-0119
PERMIT MODIFICATION

LEGEND



GENERAL DRAINAGE AND UTILITY NOTES

- 1. ALL REINFORCED CONCRETE PIPE SHALL BE CL. III, WITH MORTAR JOINTS.
2. DUE TO THE POSSIBILITY OF IGNITION FROM ESCAPING GAS DURING CONSTRUCTION AND PRESENCE OF OTHER TYPES OF POTENTIALLY HAZARDOUS GASES, ETC., SMOKING AND OPEN FLAMES SHALL BE PROHIBITED IN ALL OPEN TRENCHES AND OTHER UNDERGROUND SPACES.
3. THE CONTRACTOR SHALL DEMONSTRATE EXTREME CARE WHEN CLEANING AND FLUSHING PIPES AND DRAINAGE STRUCTURES SO AS NOT TO DAMAGE THE EXISTING STRUCTURE.
4. ALL NEW SANITARY MANHOLES SHALL BE VACUUM TESTED.
5. ALL NEW MANHOLE STRUCTURES SHALL BE INSTALLED WITH A MINIMUM 30" CLEAR OPENING FOR ACCESS.
6. EXISTING MATERIAL DESIGNATED FOR REMOVAL SHALL BE REMOVED AND DISPOSED OF OFF SITE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
7. BACK FILL USED ON UTILITY TRENCHES SHALL CONFORM TO THE SPECIFICATION FOR PROCESSED GRAVEL IN TABLE M-1 OF THE STATE OF RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.

SEQUENCE AND STAGING OF LAND DISTURBING ACTIVITIES

- 1. SURVEY AND STAKE THE DRAINAGE BASINS, LIMIT OF WORK AND LOCATION OF THE SEDIMENTATION BARRIERS.
2. PLACE SEDIMENTATION BARRIERS (HAYBALES/SILT FENCE) AS SHOWN ON THE PLANS AND STAKED IN THE FIELD. IN NO CASE SHALL THE WORK EXTEND BEYOND THE STAKED LIMIT OF WORK.
3. INSTALL THE CONSTRUCTION ENTRANCE.
4. BEGIN CONSTRUCTION OF THE DRAINAGE BASINS (EXCAVATING AND GRADING). TOP SOIL IS TO BE STRIPPED AND STOCKPILED IN THE APPROVED AREA. THE STOCKPILE IS TO BE PROTECTED BY A DOUBLE ROW OF SEDIMENTATION BARRIERS AND COVERED OR TEMPORARILY SEEDED. THE DETENTION BASINS WILL BE UTILIZED AS SEDIMENTATION BASINS DURING CONSTRUCTION.
5. INSTALL THE OUTLET CONTROL DEVICES AND RIP RAP PADS.
6. INSTALL THE RIP RAP SWALE ADJACENT TO THE TENNIS COURTS.
7. STRIP AND STOCKPILE THE TOP AND SUB SOIL AS INDICATED ON THE PLANS.
8. EXCAVATE TO SUB-GRADE. USE ON SITE MATERIAL IN AREAS WHERE FILL IS REQUIRED TO BRING THE SURFACE UP TO SUB-GRADE ELEVATION.
9. FINE GRADE SUB-GRADE LAYER AS INDICATED ON THE SUB-GRADE GRADING PLAN. CARE SHOULD BE TAKEN TO NOT OVER COMPACT THE SUB-GRADE LAYER.
10. WHILE THE SUB-GRADE IS BEING GRADED, PREPARE THE MODIFIED TOP SOIL MATERIAL, COMBINING THE STOCKPILED TOP AND SUB SOIL MATERIAL WITH SAND AS INDICATED IN THE SPECIFICATIONS.
11. INSTALL THE SAND MATERIAL TO 9 INCHES BELOW THE PROPOSED GRADE.
12. INSTALL THE STONE TRENCH ALONG THE WESTERLY SIDE OF THE LACROSSE FIELD AS INDICATED.
13. INSTALL THE MODIFIED TOP SOIL.
14. EXCESS MATERIAL REMAINING IN THE STOCKPILE SHALL BE REMOVED AND DISPOSED OF OFF SITE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
15. RESTORE THE TEMPORARY STOCKPILE AREA.
16. FINE GRADE THE SURFACE IN ACCORDANCE WITH THE GRADING PLAN.
17. SEED ALL DISTURBED AREAS.
18. AFTER THE SITE IS STABILIZED, REMOVE ALL ACCUMULATED SEDIMENTS FROM THE DRAINAGE BASINS.
19. CLEAN AND FLUSH THE DRAINAGE PIPES.
20. SEED THE DRAINAGE BASINS.
21. REMOVE THE TEMPORARY CONSTRUCTION ENTRANCE.
22. REMOVE THE SEDIMENTATION BARRIERS.

GENERAL NOTES

- 1. REFERENCE IS MADE TO THE RIDOT 2004 "STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND RIDOT 2008 "STANDARD DETAILS". ALL PROJECT SITE IMPROVEMENTS SHALL CONFORM TO THESE REGULATIONS AND THE SUB-REFERENCES INCORPORATED THEREIN.
2. THE CONTRACTOR SHALL MAKE APPLICATION FOR AND PAY ALL FEES FOR ANY/ALL OTHER PERMITS REQUIRED BY THE STATE OF RHODE ISLAND.
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED PLANS AND MATERIALS, STANDARD AND SPECIAL DETAILS, INVITATION TO BID, AND STANDARD SPECIFICATIONS. ANY WORK NOT MEETING THE APPROVED STANDARDS SHALL BE IMMEDIATELY REMOVED AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
4. CONSTRUCTION WILL BE SUBJECT TO INSPECTION BY THE BRISTOL WARREN REGIONAL SCHOOL DISTRICT. TOWN EMPLOYEES WHICH COULD AFFECT THE QUALITY OR COST OF WORK (INCREASE OR DECREASE).
5. THE CONTRACTOR SHALL MAINTAIN IN THE FIELD UP-TO-DATE AS-BUILT DRAWINGS OF ALL GRADING, DRAINAGE, AND PROVIDE A FULL-SIZE SET OF REPRODUCIBLE AS-BUILT DRAWINGS BY A R.I. REGISTERED PROFESSIONAL ENGINEER (P.E.) OR LAND SURVEYOR (P.L.S.) ACCURATELY DEPICTING AS-BUILT CONDITIONS.
6. EXISTING UTILITIES HAVE BEEN PLOTTED FROM BEST AVAILABLE DATA AND ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL EXTREME CAUTION SHALL BE USED WHEN WORKING IN THE VICINITY OF EXISTING UTILITIES. THE CONTRACTOR SHALL ADHERE TO DIG SAFE NOTIFICATION REQUIREMENTS AND SHALL CONTACT DIG-SAFE A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION AT 1-888-DIG-SAFE (1-888-344-7233).
7. LOCATIONS AND DEPTHS OF EXISTING UNDERGROUND PIPES, CONDUITS, AND STRUCTURES, AS SHOWN, ARE APPROXIMATE ONLY, BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL MAKE, AT HIS EXPENSE, TEST PITS, TO DETERMINE THE EXACT LOCATIONS OF UTILITIES AND STRUCTURES ESPECIALLY FOR CONNECTIONS TO EXISTING UTILITIES. ANY EXPENSE AND/OR DELAY OCCASIONED BY UTILITIES AND STRUCTURES, OR DAMAGE THERETO, INCLUDING THOSE NOT SHOWN, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. CARE SHALL BE USED AROUND UTILITIES TO PREVENT ANY DAMAGE.
8. THE CONTRACTOR SHALL MAINTAIN ALL EXCAVATION IN A DRY CONDITION. NO SEPARATE PAYMENT OR ALLOWANCE SHALL BE MADE FOR Dewatering.
9. ALL GRASSED AREAS DISTURBED BY THE CONTRACTOR SHALL BE LOAMED AND SEEDED OR SODDED IF SO DIRECTED, AND RETURNED TO THEIR ORIGINAL CONDITION; ALL OTHER VEGETATED OR WOODED AREAS DISTURBED SHALL BE REPAIRED TO ORIGINAL CONDITION.
10. ALL EXISTING PAVEMENT DISTURBED SHALL BE IMMEDIATELY REPAIRED WITH TEMPORARY PAVEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE TEMPORARY PAVEMENT UNTIL SUCH TIME AS THE PERMANENT PAVEMENT IS INSTALLED. PAYMENT FOR TEMPORARY PATCH WILL BE FOR 2" x 6" x THE LENGTH OF EXCAVATION. PERMANENT PAVEMENT SHALL MEET RIDOT REQUIREMENTS AND SPECIFICATIONS.
11. ALL EXISTING CURBING, SIDEWALK AND OTHER PAVEMENT DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE REPLACED AND RESTORED, IN KIND.
12. CONTRACTOR SHALL INSTALL AND MAINTAIN SHEETING AND BRACING OR OTHER SUITABLE TRENCH PROTECTION AS NECESSARY TO PROTECT WORKMEN AND THE PUBLIC ON OR NEAR THE SITE; PREVENT INJURIOUS CAVING OR ADJACENT STRUCTURES.
13. CONTINUOUS DUST CONTROL, USING CALCIUM CHLORIDE OR OTHER APPROVED METHODS, SHALL BE PROVIDED FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS AND SURFACES OF BACKFILLED TRENCHES, AS DIRECTED AND SPECIFIED.
14. AT COMPLETION OF THE UTILITIES INSTALLATION, THE DRAIN LINES SHALL BE CLEANED OF ALL SILT GENERATED FROM THE CONSTRUCTION ACTIVITIES, AND THE DISTURBED AREAS SHALL BE ESTABLISHED WITH VEGETATION.
15. WETLAND BOUNDARIES WERE DELINEATED BY THE GIFFORD DESIGN GROUP, INC.
16. SURVEYS PROVIDED IN THE DRAWINGS SHALL BE ASSUMED TO ACCURATELY REPRESENT THE EXISTING GROUND SURFACE. THE CONTRACTOR MAY AT HIS/HER OWN EXPENSE MAKE NEW SURVEYS. ANY DIFFERENCES BETWEEN SURVEYS BROUGHT TO THE ATTENTION OF THE OWNER.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING INCLUDING LAYOUT OF WORK, HORIZONTAL AND VERTICAL CONTROL, MATERIAL TESTING, AND SHOP DRAWINGS.
18. THE CONTRACTOR SHALL GIVE NOTICES AND COMPLY WITH ALL PERMITS, LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN AND SPECIFIED.
19. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL.
20. THE BRISTOL-WARREN SCHOOL DISTRICT SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE DRAINAGE SYSTEM AFTER CONSTRUCTION IS COMPLETED AND ACCEPTED BY THE TOWN.
21. THE DRAINAGE BASINS, OUTLET CONTROL STRUCTURE AND CATCH BASINS SHALL BE INSPECTED MONTHLY AND AFTER STORM EVENTS OF GREATER THAN 1" OF RAIN WITHIN A 24 HOUR PERIOD.
22. A BRIEF REPORT OF FINDINGS SHALL BE PREPARED AND ANY DEFICIENCIES SHALL BE REPORTED TO THE RI DEM.
23. ROUTINE SCHEDULED MAINTENANCE SHALL BE AS NOTED IN THE MAINTENANCE REQUIREMENTS.

EROSION AND SEDIMENT CONTROL NOTES

- 1. EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE PROVISIONS OF THE RHODE ISLAND STANDARD EROSION & SEDIMENT CONTROL HANDBOOK AND RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD.
2. PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES, A CONTINUOUS UNINTERRUPTED LINE OF STAKED HAY BALES AND/OR SILT FENCING SHALL BE INSTALLED DOWNSTREAM, OUTSIDE THE LIMITS OF ANY PROPOSED CONSTRUCTION IN THE LOCATIONS SHOWN ON THE PLANS AND SHALL BE MAINTAINED IN EFFECTIVE CONDITION UNTIL DISTURBED AREAS HAVE BEEN STABILIZED WITH VEGETATION. FOLLOWING SUCCESSFUL STABILIZATION OF DISTURBED AREAS, ALL SILT FENCING AND HAY BALES SHALL BE REMOVED PRIOR TO REMOVAL OF A SUITABLE UPLAND SITE.
3. UNTIL VEGETATIVE COVER IS ESTABLISHED AND DISTURBED AREAS ARE STABILIZED, ACCUMULATED SEDIMENTS SHALL BE REMOVED AS SOON AS SEDIMENTS HAVE ACCUMULATED TO A DEPTH OF SIX (6) INCHES.
4. THE CONTRACTOR SHALL INSPECT THE EROSION CONTROL MEASURES ON A WEEKLY BASIS DURING CONSTRUCTION AND AFTER STORMS OF GREATER THAN OR EQUAL TO 1" IN A 24 HOUR PERIOD. THE CONTROL MEASURES SHALL BE REPAIRED OR REPLACED WITHIN 24 HOURS OF NOTING THE DAMAGE/DETERIORATION.
5. THE LIMITS OF ALL CLEARING, GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION.
6. A STONE STABILIZATION PAD IS LOCATED AT THE SITE ENTRANCE TO REDUCE THE TRACKING OR FLOWING OF SEDIMENT ONTO THE PUBLIC RIGHT OF WAY.
7. THE ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR. THE MAINTENANCE SHALL INCLUDE TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND OR AS DIRECTED BY THE ENGINEER. ALL SEDIMENTS SPILLED, DROPPED, WASHED, OR TRACKED ONTO THE PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
8. AREAS BEYOND THE STAKED LIMITS OF DISTURBANCE SHALL BE TOTALLY UNDISTURBED.
9. PIPE INLETS AND OUTFALLS SHALL BE PROTECTED BY HAY BALE FILTERS OR SILT FENCE UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED WITH VEGETATION.
10. DENuded SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED IN AREAS WHERE WORK IS TO CEASE FOR A PERIOD OF 14 DAYS OR GREATER AND WILL NOT RESUME WITHIN 21 DAYS OR DURING THE INACTIVE WINTER SEASON. AREAS EXPOSED FOR THE DESCRIBED PERIODS SHALL RECEIVE TEMPORARY VEGETATIVE COVER AND/OR BE COMPLETELY COVERED WITH LOOSE HAY MULCH.
11. SOIL STOCKPILES AND DEPOSITION AREAS FOR CONSTRUCTION MATERIALS SHALL BE LOCATED OUTSIDE WETLAND AREAS AND ASSOCIATED BUFFERS AND SHALL BE SURROUNDED BY A DOUBLE ROW OF STAKED HAY BALES.
12. TEMPORARY TREATMENTS SHALL BE USED TO PROTECT BARE AREAS AND STOCKPILES FROM EROSION DURING CONSTRUCTION. BARE EARTH SLOPES AND SOIL STOCKPILES SHALL BE KEPT TO A MINIMUM AT ALL TIMES. TEMPORARY TREATMENTS SHALL BE INSTALLED ON ALL BARE EARTH PRIOR TO ENDING CONSTRUCTION FOR WINTER AND AS OTHERWISE NECESSARY.
13. TEMPORARY TREATMENTS SHALL CONSIST OF HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS) THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
14. AS SOON AS WEATHER PERMITS AFTER THE COMPLETION OF FINE GRADING, ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITH PLACEMENT OF THE MODIFIED TOP SOIL AND THE SPECIFIED GRASS SEED MIXTURE.
15. THE PERMANENT SEED DESIGN MIX FOR UPLAND SOILS SHALL BE:
MIXTURE: % BY WEIGHT
RED FESCUE 70
KENTUCKY BLUEGRASS 15
COLONIAL BENTGRASS 5
PERENNIAL RYEGRASS 10
16. THE APPLICATION RATE IS A TOTAL OF 100 LBS/ACRE
17. PERMANENT SEEDING DATES SHALL BE AS FOLLOWS:
APRIL 1 - JUNE 13
AUGUST 15 - OCTOBER 15
18. THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS, BEFORE MIXING AND PLANTING WITH APPROPRIATE INOCULUM FOR EACH VARIETY/
19. TEMPORARY VEGETATION GRASS SHALL BE USED TO PROTECT STOCKPILES FROM WIND EROSION. STOCKPILES SHALL BE WATERED TO ESTABLISH AND MAINTAIN VEGETATIVE COVER. WIND EXCESSIVE WATERING WHICH COULD PROMOTE EROSION. PLANTING OF GRASS SHALL BE ACCOMPLISHED BY THE CONTRACTOR AS EARLY AS POSSIBLE UPON COMPLETION OF GRADING AND CONSTRUCTION.
20. STOCKPILES SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES OF NO GREATER THAN 2:1 (H:V) AND SHALL BE TEMPORARILY SEEDED AND/OR STABILIZED.
21. ALL GRASS PLANTED AREAS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL THE COMPLETION OF THE CONSTRUCTION AND ACCEPTANCE BY THE BRISTOL-WARREN REGIONAL SCHOOL DISTRICT TO ENSURE SURVIVAL.
22. ALL DISTURBED AREAS WITHIN THE PROJECT WILL RECEIVE PERMANENT VEGETATION. DISTURBED AREAS WILL BE FINE GRADED AND RECEIVE 9 INCHES OF MODIFIED TOPSOIL.
23. THE PROPOSED DRAINAGE BASINS SHALL ACT AS SEDIMENTATION BASINS DURING CONSTRUCTION. UPON COMPLETION OF THE PROJECT, ACCUMULATED SEDIMENTS SHALL BE REMOVED FROM THE BASINS. AND THE DRAINAGE SYSTEM DURING CONSTRUCTION AND UP TO ACCEPTANCE BY THE BRISTOL-WARREN REGIONAL SCHOOL DISTRICT.
24. THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY OF MAINTAINING THE EROSION CONTROL MEASURES DURING CONSTRUCTION AND UP TO ACCEPTANCE BY THE BRISTOL-WARREN REGIONAL SCHOOL DISTRICT.
25. THE BRISTOL WARREN REGIONAL SCHOOL DISTRICT WILL BE RESPONSIBLE FOR THE MAINTENANCE OF THE DRAINAGE SYSTEM AND OUTFALL AFTER ACCEPTANCE.

ABBREVIATIONS

Table with columns for ADS, APPROX, CB, CONC, D, PLASTIC PIPING, APPROXIMATELY, CATCH BASIN, CONCRETE, DIAMETER, DRAINAGE, EASTING, EL, EL., ELEVATION, INVERT, INVERT, NORTHING, LENGTH, REINFORCED CONCRETE PIPE, SLOPE, SANITARY MANHOLE, STA, STATION, ST, STORM SEWER, UP, UTILITY PLAN, W, WATER.

POST CONSTRUCTION MAINTENANCE REQUIREMENTS FOR THE DRAINAGE FACILITY

Large table with columns: COMPONENT, DEFECT, CONDITION WHEN MAINTENANCE IS NEEDED TO BE PERFORMED, RESULT EXPECTED WHEN MAINTENANCE IS PERFORMED, CONTROL STRUCTURE/OUTLET STRUCTURE COMPONENT, DEFECT, CONDITION WHEN MAINTENANCE IS NEEDED TO BE PERFORMED, RESULT EXPECTED WHEN MAINTENANCE IS PERFORMED, CONVEYANCE PIPES & DITCHES (CONT.) COMPONENT, DEFECT, CONDITION WHEN MAINTENANCE IS NEEDED TO BE PERFORMED, RESULT EXPECTED WHEN MAINTENANCE IS PERFORMED.

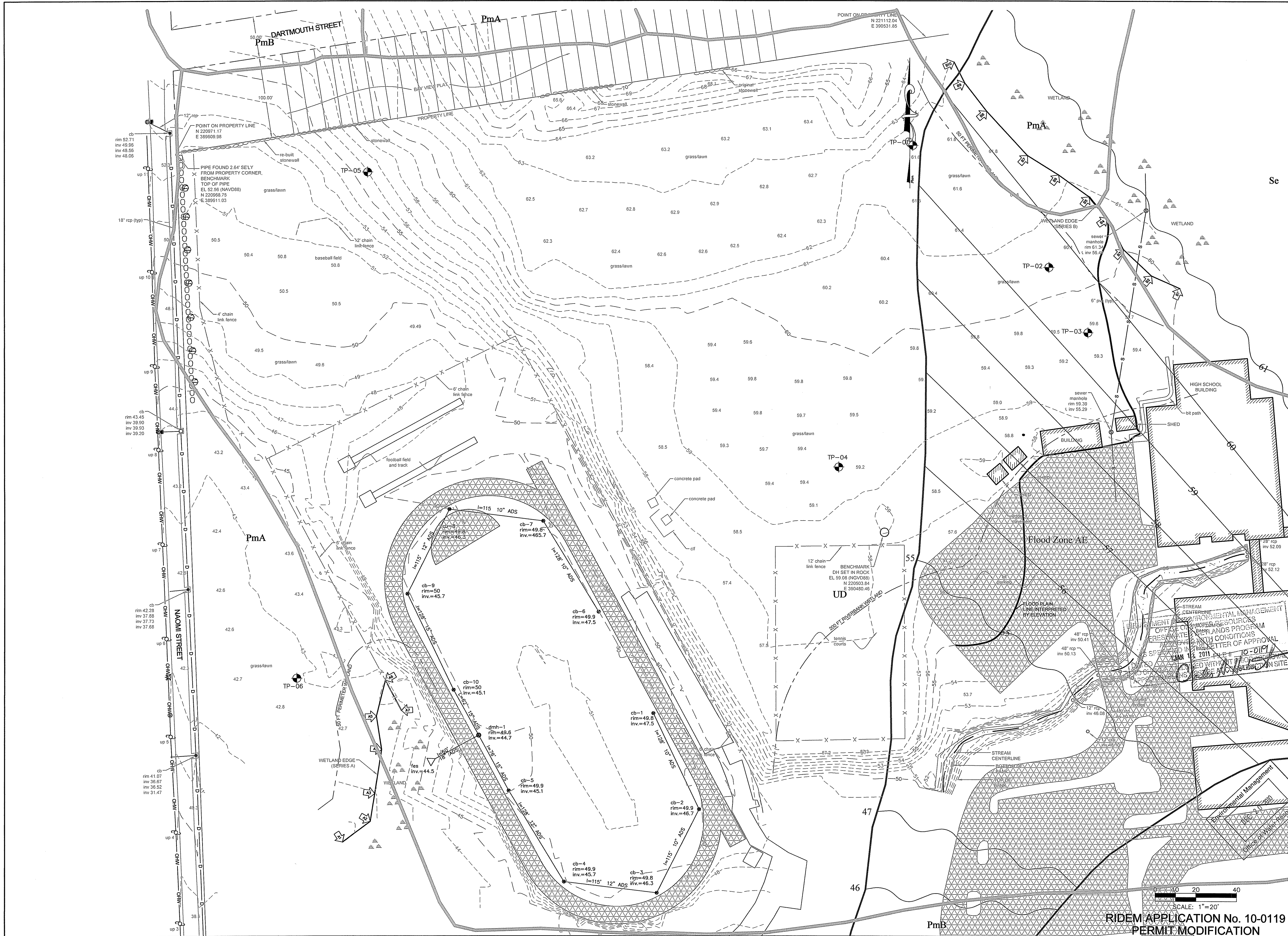
Professional Engineer stamp for William G. Young, No. 1087, Registered Professional Engineer (Civil), dated 10-20-2010.

Maguire Group Inc. Architects/Engineers/Planners, 224 Chapman Street, Providence, Rhode Island 02905

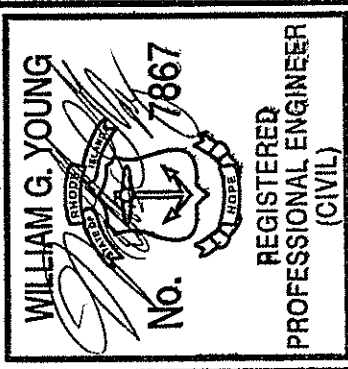


MOHNT HOPE HIGH SCHOOL ATHLETIC FIELDS DRAINAGE IMPROVEMENTS BRISTOL, RHODE ISLAND ATHLETIC FIELDS IMPROVEMENTS GENERAL NOTES, SYMBOLS & LEGEND

Project information: PROJECT NO.: 18882, DESIGNED BY: Rdyer, DRAWN BY: Rdyer, DATE: December 9, 2010, SCALE: AS NOTED, DRAWING NO.: G02




MARK	DATE	DESCRIPTION	BY	APP'D



William G. Young
 No. 1867
 REGISTERED PROFESSIONAL ENGINEER
 (CIVIL)

Maguire Group Inc.
 Architects/Engineers/Planners
 225 Chapman Street
 Providence, Rhode Island 02905

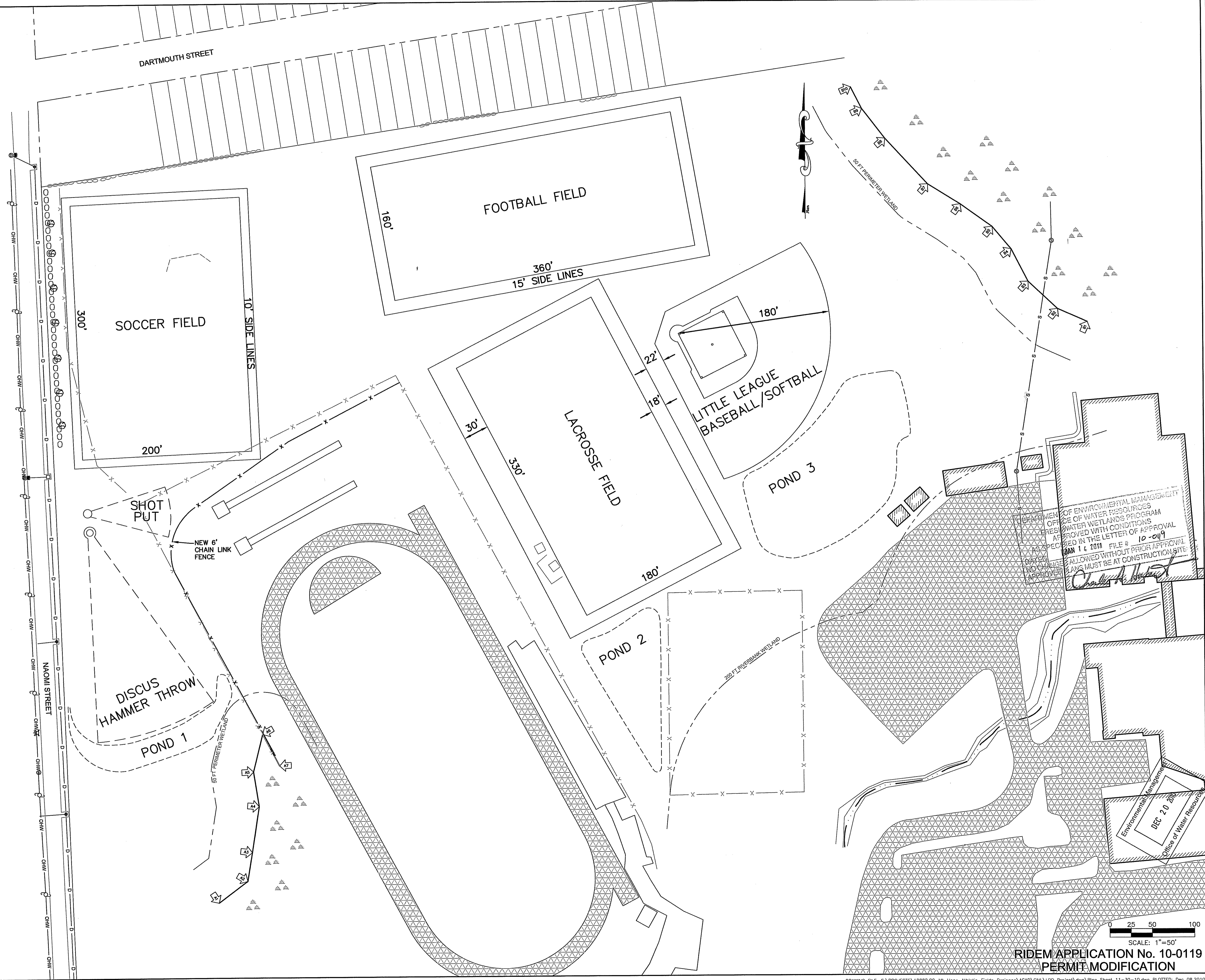


**MOUNT HOPE HIGH SCHOOL ATHLETIC
 FIELDS DRAINAGE IMPROVEMENTS
 BRISTOL, RHODE ISLAND
 EXISTING CONDITIONS PLAN**

PROJECT NO.: 18882
 DESIGNED BY: R.Dyer
 DRAWN BY: R.Dyer
 CHK'D BY:
 DATE: December 9, 2010
 SCALE: 1"=50'
 DRAWING NO.: C01

RIDEM APPLICATION No. 10-0119
 PERMIT MODIFICATION

SHEET 3 OF 12



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 JAN 14 2011 FILE # 10-019
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 ANY CHANGES MUST BE AT CONSTRUCTION SITE
Charles A. [Signature]

Environmental Management
 DEC 20 2010
 Office of Water Resources

PROJECT NO.: 18882	
DESIGNED BY: R.Dyer	
CHK'D BY:	
DATE: December 9, 2010	
SCALE: 1"=50'	
DRAWING NO.:	
C02	
SHEET 4 OF 12	

PROJECT NO.: 18882	MARK	DATE	DESCRIPTION	BY	APP'D

Maguire Group Inc. Architects/Engineers/Planners 225 Chapman Street Providence, Rhode Island 02905	

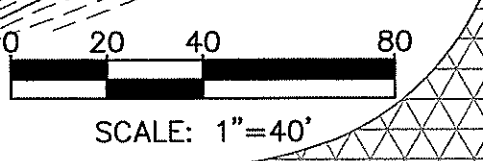
PROJECT NO.: 18882 SHEET: C02 OF 12	

**MOUNT HOPE HIGH SCHOOL ATHLETIC
 FIELDS DRAINAGE IMPROVEMENTS
 BRISTOL, RHODE ISLAND**
SITE LAYOUT PLAN

RIDEM APPLICATION No. 10-0119
 PERMIT MODIFICATION



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED 12/09/11 FILE # 10-0119
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Charles A. Hester

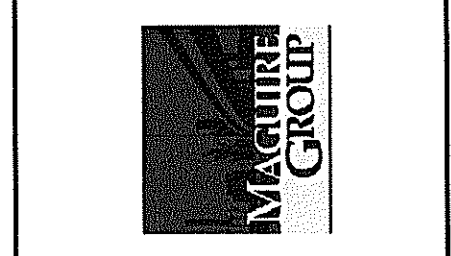


RIDEM APPLICATION No. 10-0119
 PERMIT MODIFICATION

MARK	DATE	DESCRIPTION	BY	APP'D

WILLIAM G. YOUNG
 No. 7867
 REGISTERED
 PROFESSIONAL ENGINEER
 (CIVIL)
 12-20-2010

Maguire Group Inc.
 Architects/Engineers/Planners
 225 Chapin Street
 Providence, Rhode Island 02905

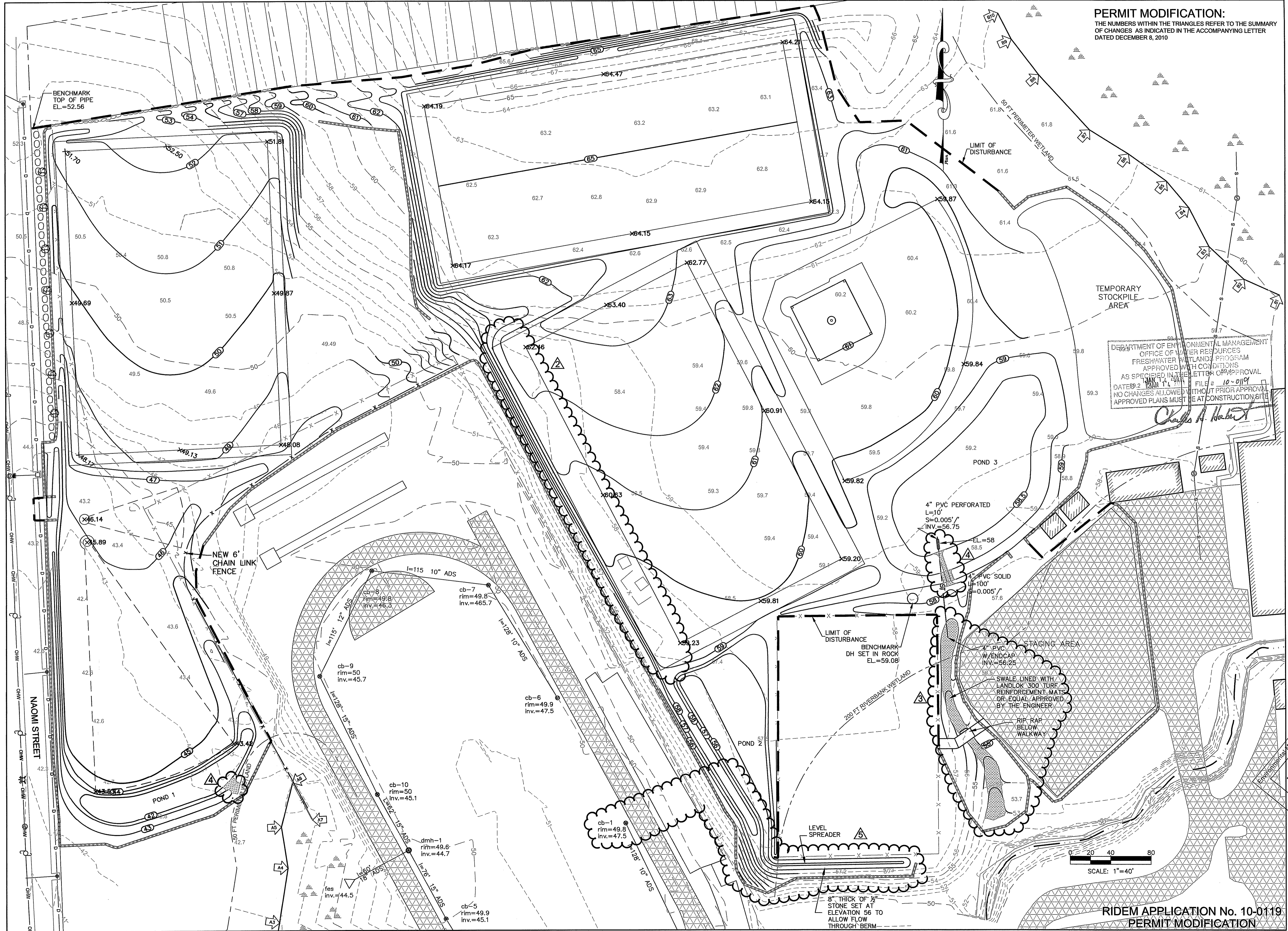


**MOUNT HOPE HIGH SCHOOL ATHLETIC
 FIELDS DRAINAGE IMPROVEMENTS
 BRISTOL, RHODE ISLAND**
 SUB-SURFACE
 GRADING PLAN

PROJECT NO.:	18882
DESIGNED BY:	
DRAWN BY:	R.Dyer
CHK'D BY:	
DATE:	December 9, 2010
SCALE:	1"=40'
DRAWING NO.:	

C03

PERMIT MODIFICATION:
 THE NUMBERS WITHIN THE TRIANGLES REFER TO THE SUMMARY
 OF CHANGES AS INDICATED IN THE ACCOMPANYING LETTER
 DATED DECEMBER 8, 2010



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED 02/21/11 FILE # 10-0119
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Charles A. Harter

MARK	DATE	DESCRIPTION
13-28	2/23/11	

Maguire Group Inc.
 Architects/Engineers/Planners
 225 Chatham Street
 Providence, Rhode Island 02905

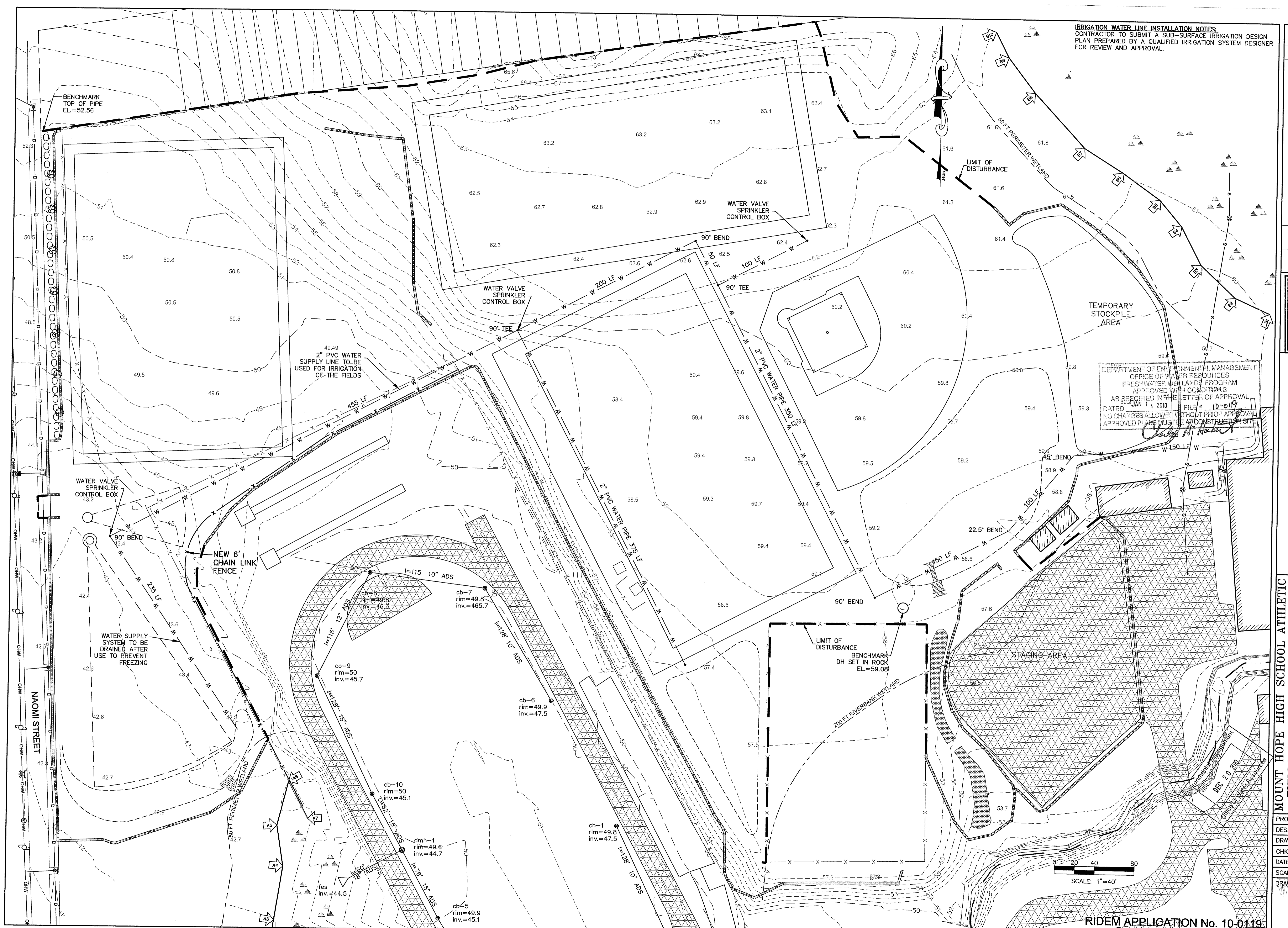


**MOUNT HOPE HIGH SCHOOL ATHLETIC
 FIELDS DRAINAGE IMPROVEMENTS
 BRISTOL, RHODE ISLAND
 SURFACE GRADING PLAN**

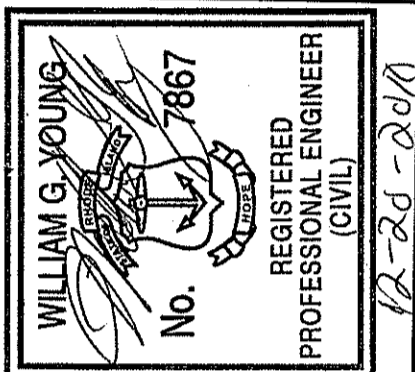
PROJECT NO.: 18882
 DESIGNED BY:
 DRAWN BY: R.Dyer
 CHK'D BY:
 DATE: December 9, 2010
 SCALE: 1"=40'
 DRAWING NO.:

C04
 SHEET 6 OF 12

IRRIGATION WATER LINE INSTALLATION NOTES:
 CONTRACTOR TO SUBMIT A SUB-SURFACE IRRIGATION DESIGN
 PLAN PREPARED BY A QUALIFIED IRRIGATION SYSTEM DESIGNER
 FOR REVIEW AND APPROVAL.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JAN 14 2010 FILE # 10-0119
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE



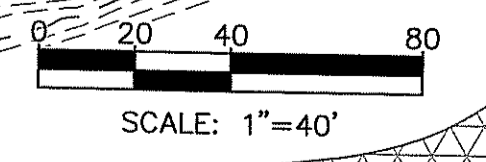
Maguire Group Inc.
 Architects/Engineers/Planners
 225 Chapman Street
 Providence, Rhode Island 02905



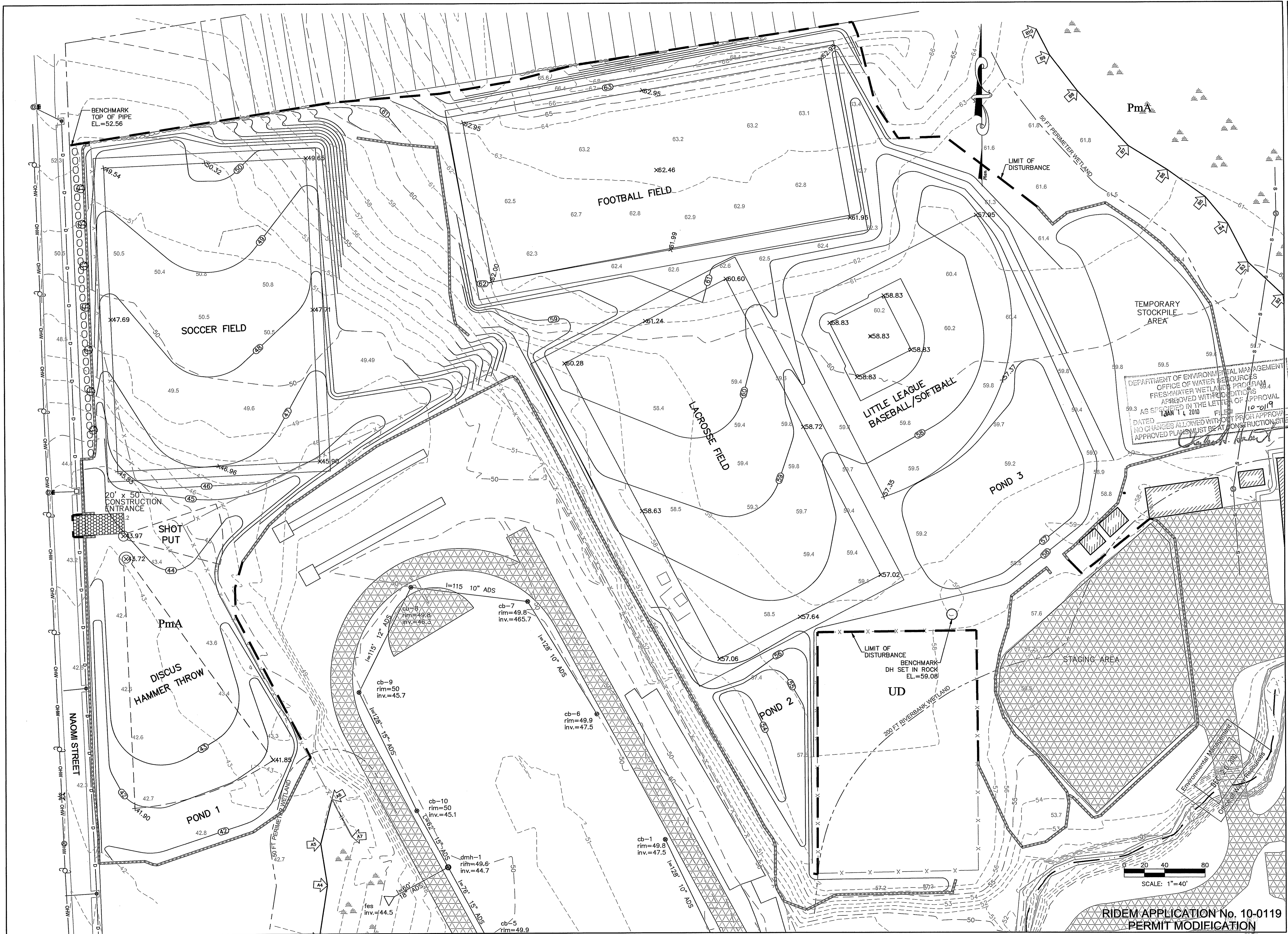
**MOUNT HOPE HIGH SCHOOL ATHLETIC
 FIELDS DRAINAGE IMPROVEMENTS
 BRISTOL, RHODE ISLAND
 IRRIGATION WATER
 SERVICE LINE LOCATION**

PROJECT NO.: 18882
 DESIGNED BY:
 DRAWN BY: R.Dyer
 CHK'D BY:
 DATE: December 9, 2010
 SCALE: 1"=40'
 DRAWING NO.:

C05
 SHEET 7 OF 12



**RIDEM APPLICATION No. 10-0119
 PERMIT MODIFICATION**



MARK	DATE	DESCRIPTION	BY	APP'D
12-20-2010				

WILLIAM G. YOUNG
 No. 13867
 REGISTERED PROFESSIONAL ENGINEER (CIVIL)

Maguire Group Inc.
 Architects/Engineers/Planners
 225 Chapman Street
 Providence, Rhode Island 02905

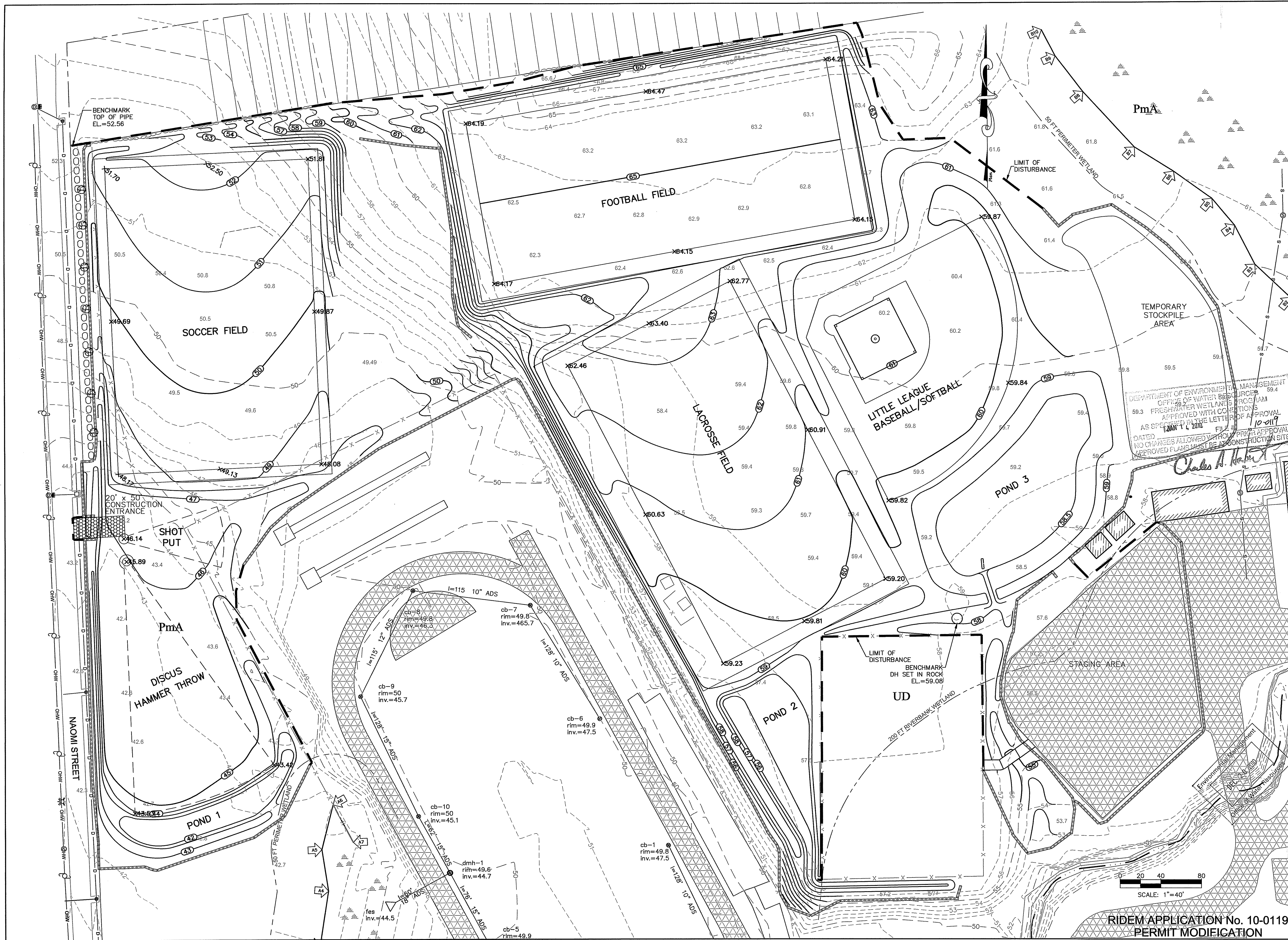
MAGUIRE GROUP

MOUNT HOPE HIGH SCHOOL ATHLETIC FIELDS DRAINAGE IMPROVEMENTS BRISTOL, RHODE ISLAND EROSION & SEDIMENTATION CONTROL PLAN 01

PROJECT NO.: 18882
 DESIGNED BY:
 DRAWN BY: R.Dyer
 CHK'D BY:
 DATE: December 9, 2010
 SCALE: 1"=40'
 DRAWING NO.: **C06**

RIDEM APPLICATION No. 10-0119 PERMIT MODIFICATION

SHEET 8 OF 12



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 59.3 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JAN 14, 2010 FILE # 10-019
 (NO CHANGES ALLOWED WITHOUT PERMITS APPROVAL)
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Hest

BY	APP'D
MARK	DATE
DESCRIPTION	

WILLIAM G. JOYING
 No. 7867
 REGISTERED PROFESSIONAL ENGINEER (CIVIL)
 12-20-2010

Maguire Group Inc.
 Architects/Engineers/Planners
 225 Chapman Street
 Providence, Rhode Island 02905

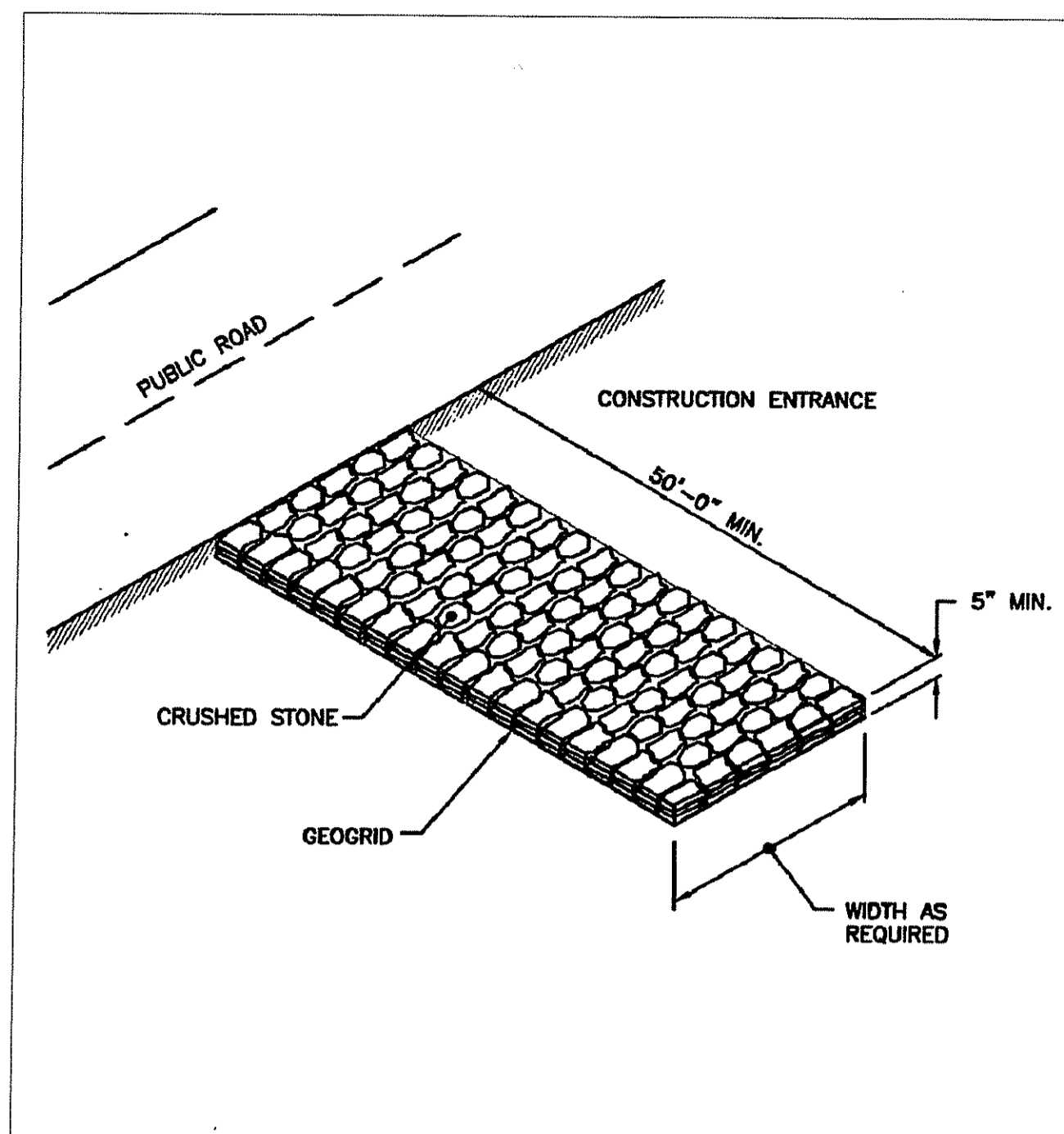
MAGUIRE GROUP

MOUNT HOPE HIGH SCHOOL ATHLETIC FIELDS DRAINAGE IMPROVEMENTS BRISTOL, RHODE ISLAND EROSION & SEDIMENTATION CONTROL PLAN 02

PROJECT NO.: 18882
 DESIGNED BY:
 DRAWN BY: R.Dyer
 CHK'D BY:
 DATE: December 9, 2010
 SCALE: 1"=40'
 DRAWING NO.:

C07

SHEET 9 OF 12

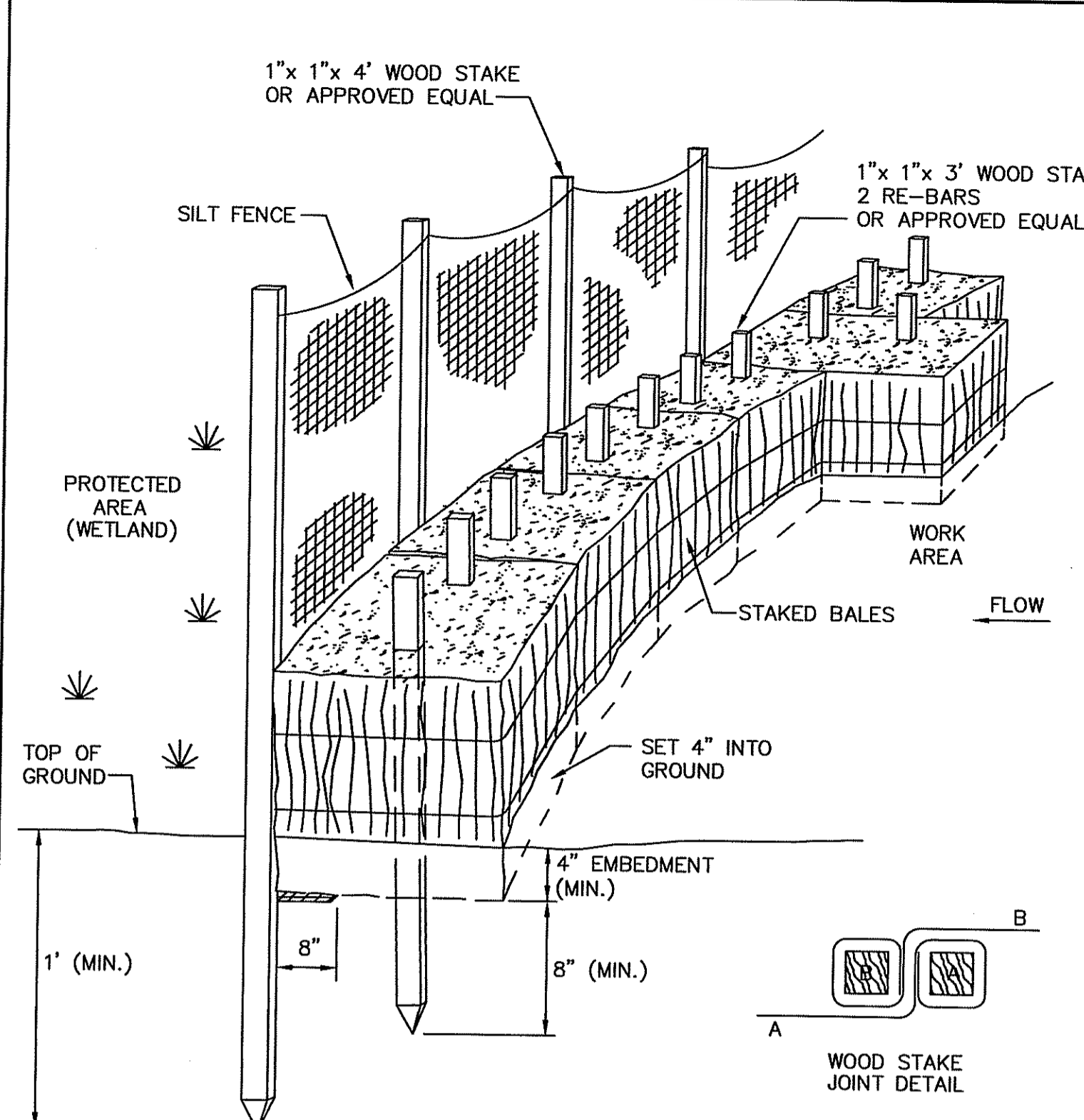


NOTE: SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.

REVISIONS		
NO.	BY	DATE

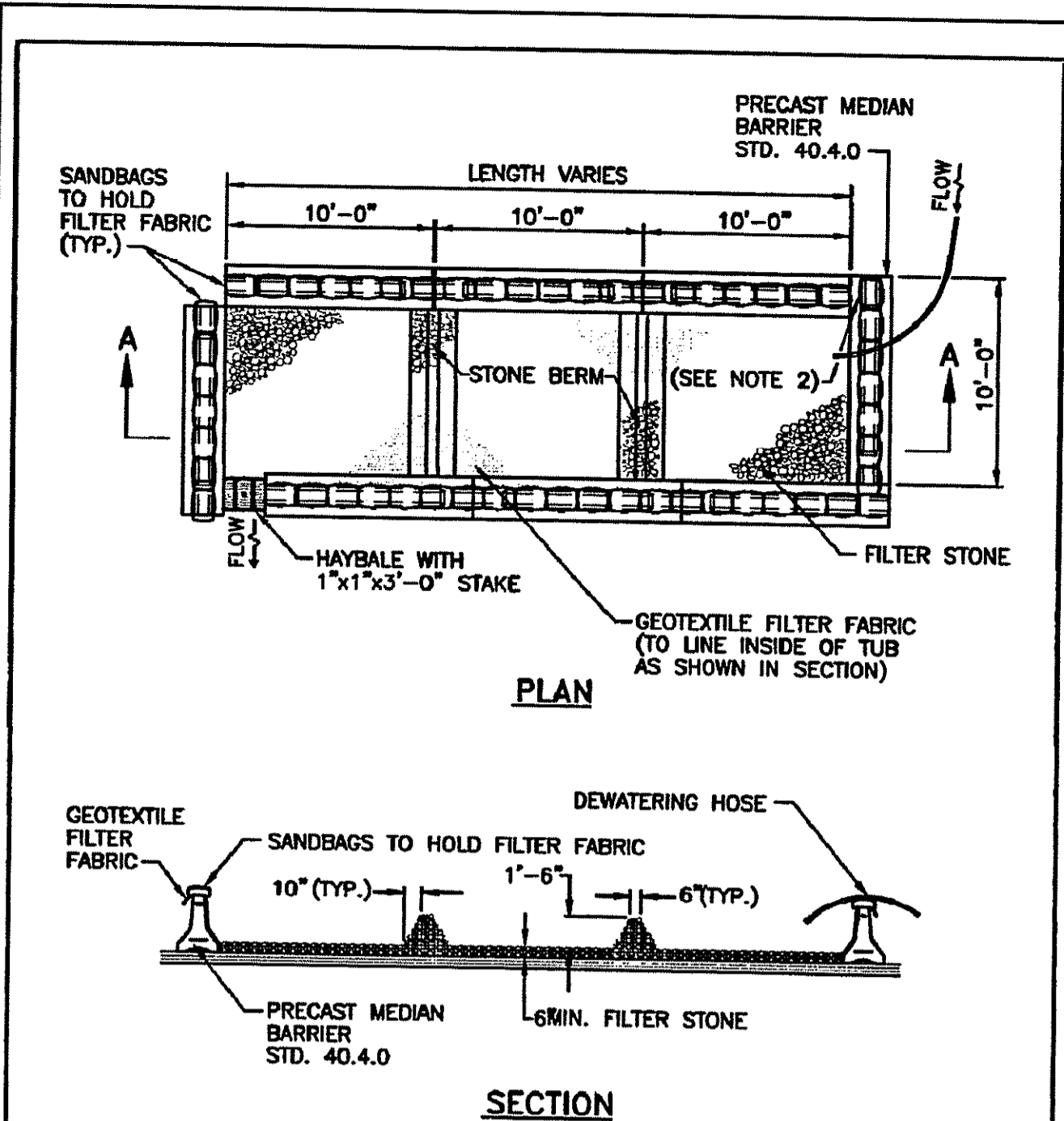
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
CONSTRUCTION ACCESS

June 15, 1998
R.I. STANDARD 9.9.0



NOTE: PUT ONE BALE PERPENDICULAR ALONG BALE BARRIER (100' O.C.)

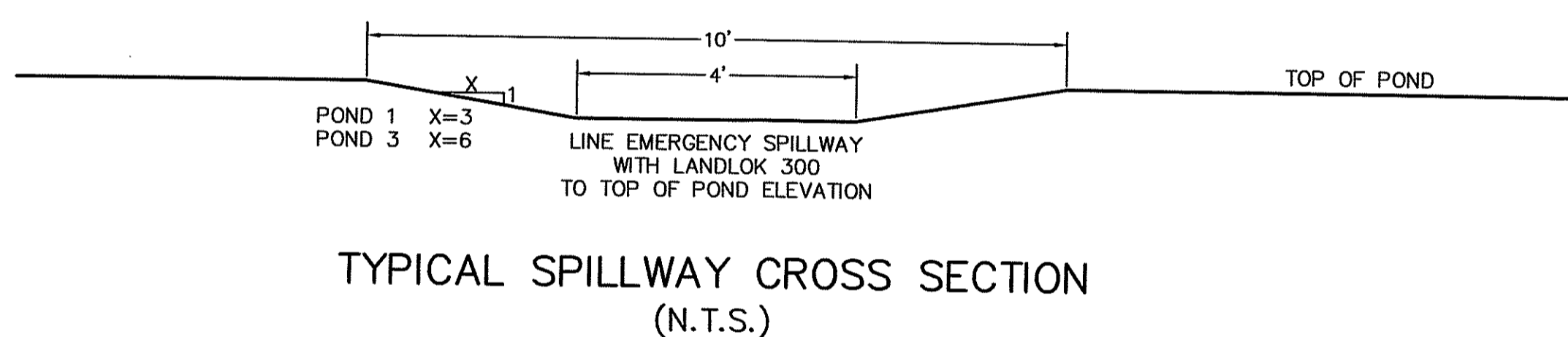
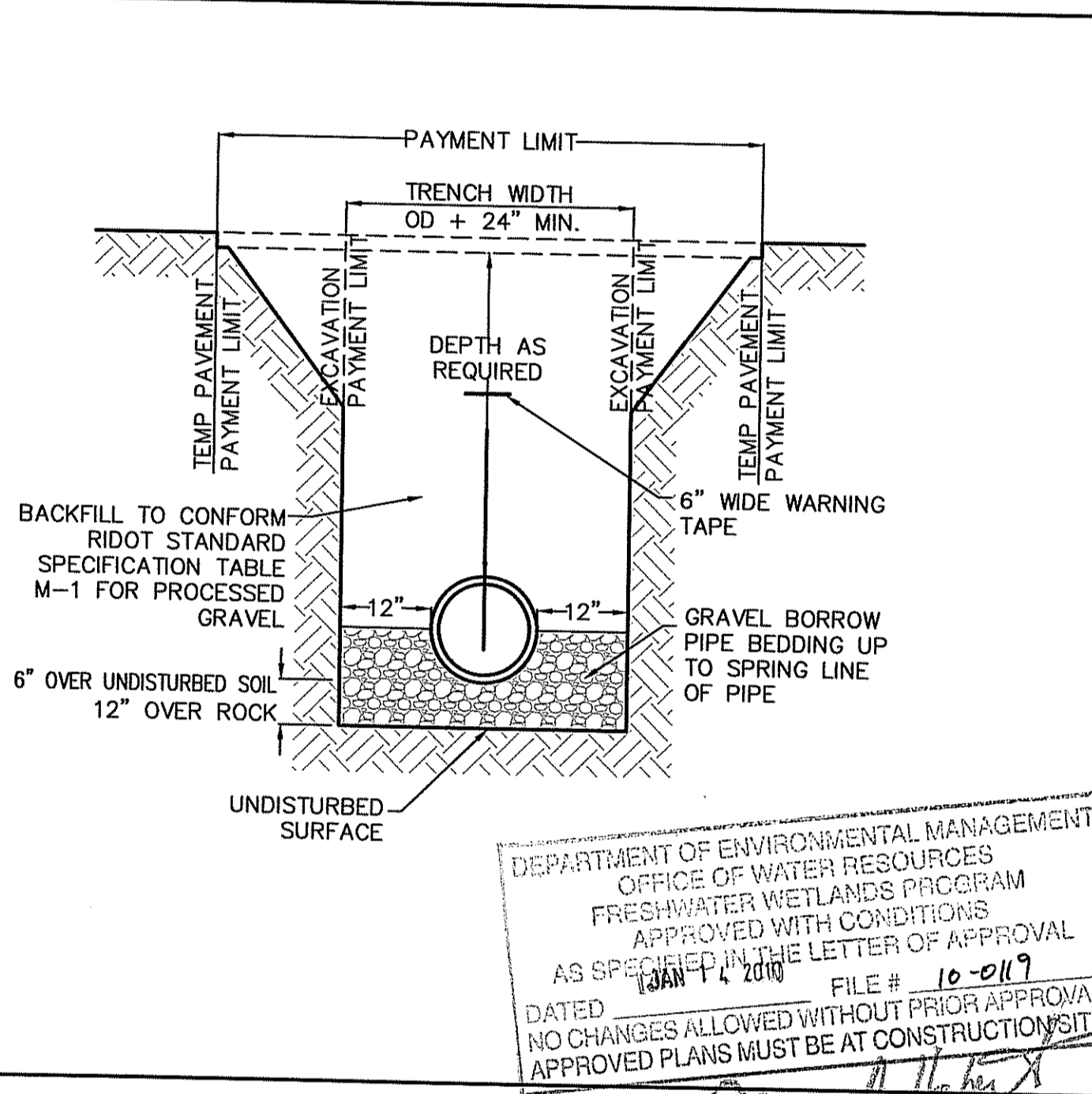
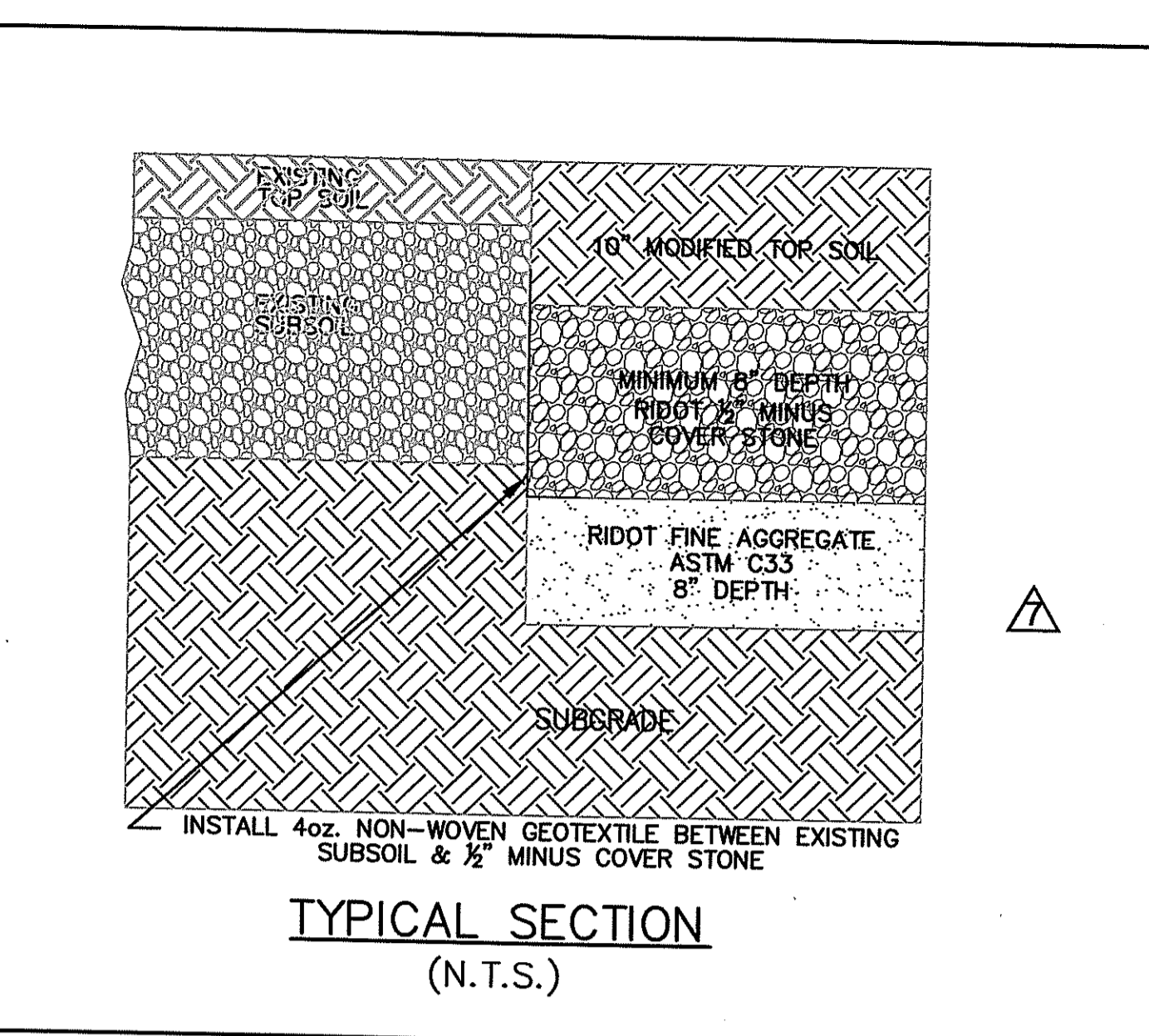
SILT FENCE/HAY BALE INSTALLATION DETAIL (N.T.S.)



NOTE: 1. SHALL BE IN ACCORDANCE WITH SECTION 208 OF THE R.I. STANDARD SPECIFICATIONS.
2. PROVIDE ADDITIONAL SAND BAGS AS REQUIRED TO FILL SPACE BETWEEN ADJACENT BARRIERS.

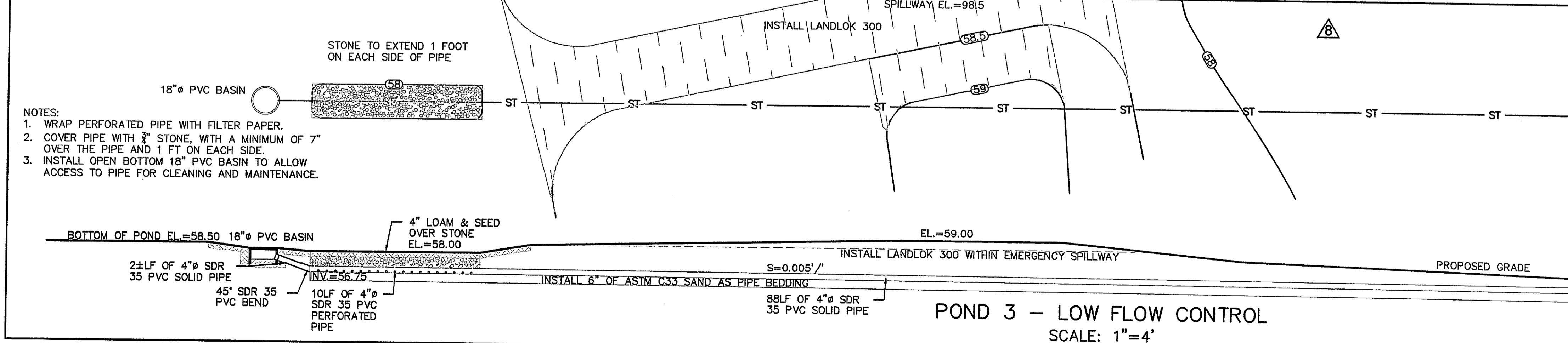
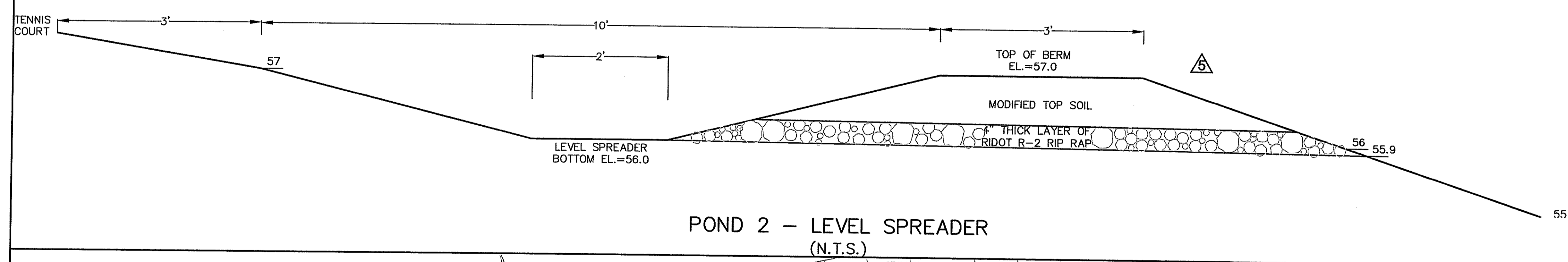
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
DEWATERING BASIN

June 15, 1998
R.I. STANDARD 9.7.0

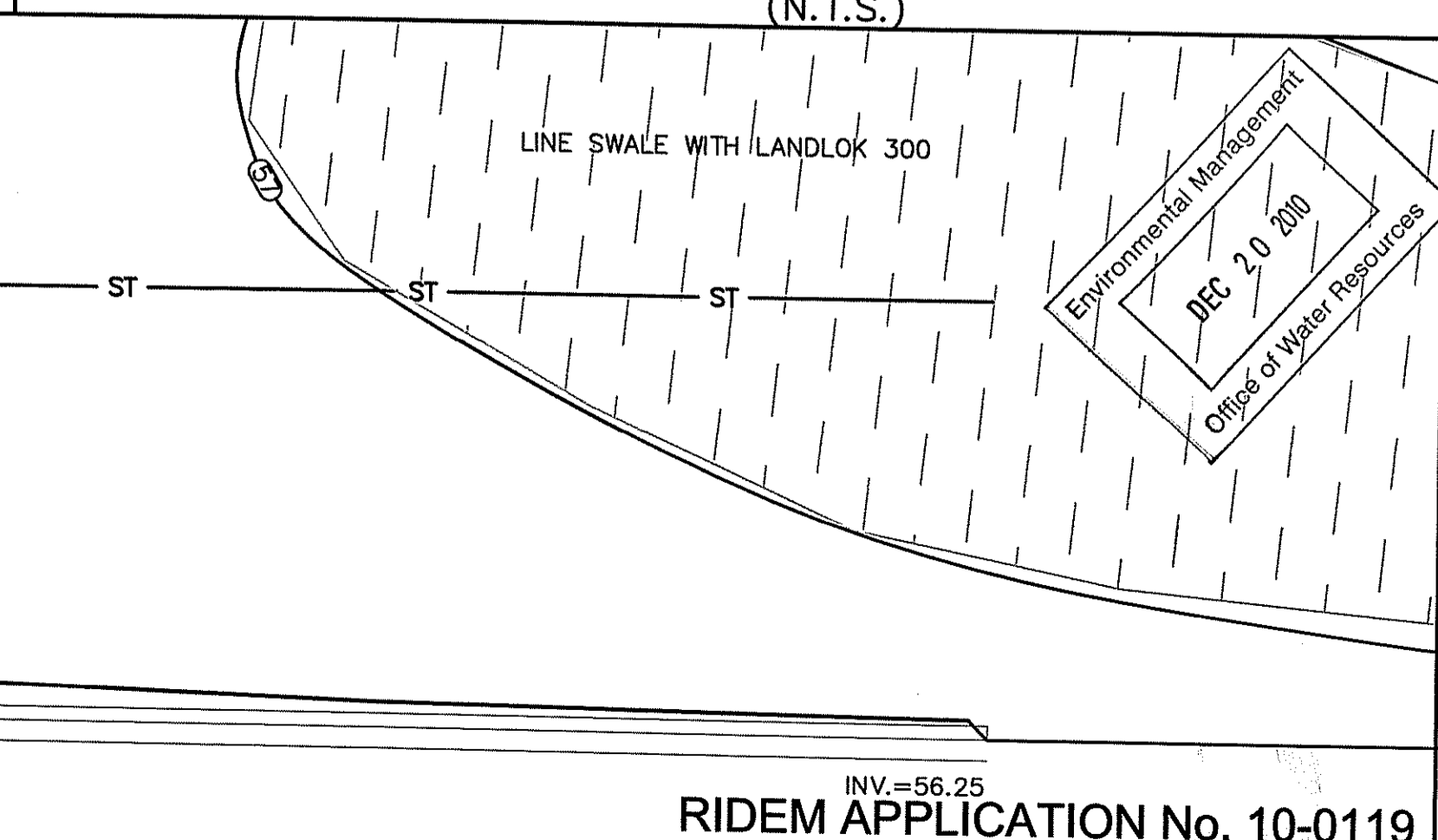
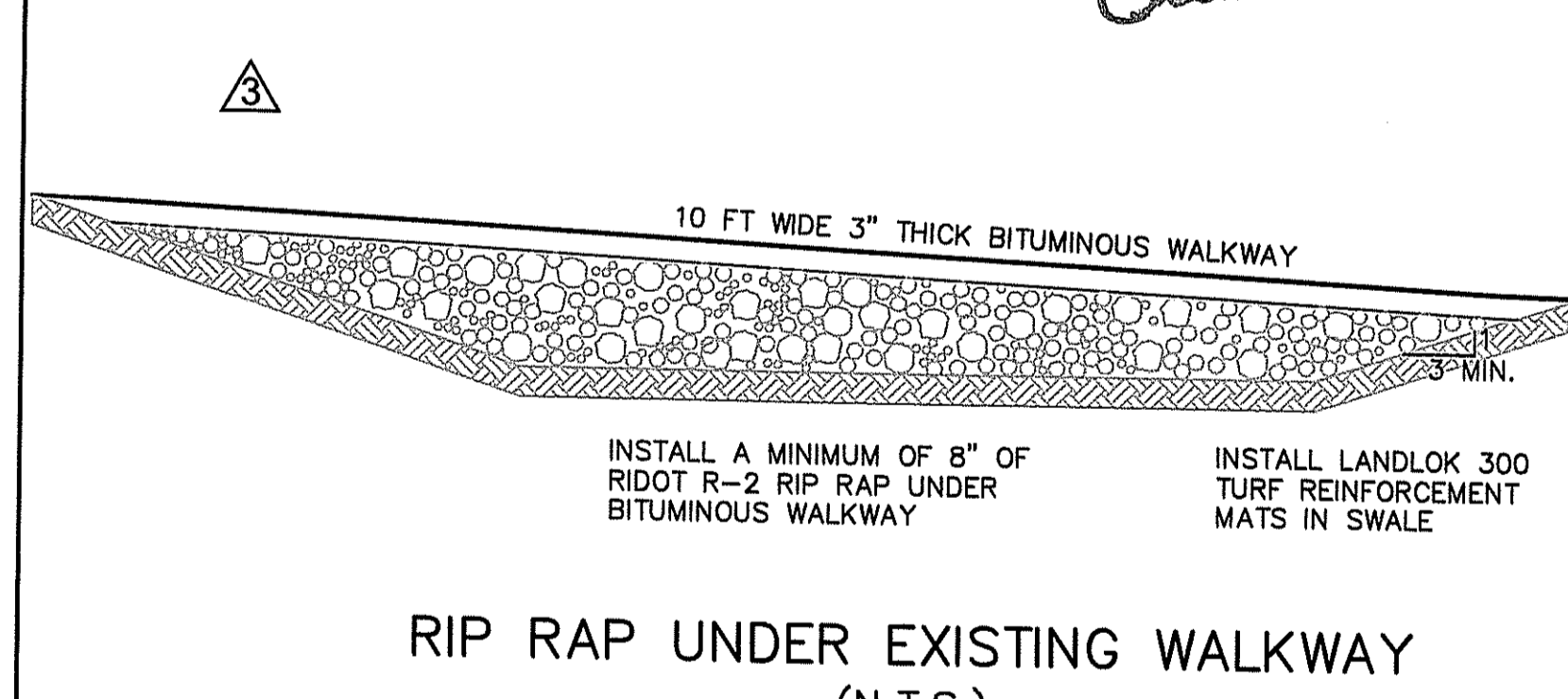


TYPICAL SPILLWAY CROSS SECTION (N.T.S.)

PERMIT MODIFICATION:
THE NUMBERS WITHIN THE TRIANGLES REFER TO THE SUMMARY OF CHANGES AS INDICATED IN THE ACCOMPANYING LETTER DATED DECEMBER 8, 2010



POND 3 - LOW FLOW CONTROL SCALE: 1"=4'



RIP RAP UNDER EXISTING WALKWAY (N.T.S.)

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED 12/10/10 FILE # 10-0119
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Hetherington

MARK	DATE	DESCRIPTION

BY: APP'D

WILLIAM G. YOUNG
No. 7867
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
12-20-2010

Maguire Group Inc.
Architects/Engineers/Planners
225 Chapman Street
Providence, Rhode Island 02905

MAGUIRE GROUP

MOUNT HOPE HIGH SCHOOL ATHLETIC FIELDS DRAINAGE IMPROVEMENTS BRISTOL, RHODE ISLAND

DETAILS 01

PROJECT NO.: 18882
DESIGNED BY:
DRAWN BY: R.Dyer
CHK'D BY:
DATE: December 9, 2010
SCALE: AS NOTED
DRAWING NO.:

C08

RIDEM APPLICATION No. 10-0119
PERMIT MODIFICATION

SHEET 10 OF 12

