

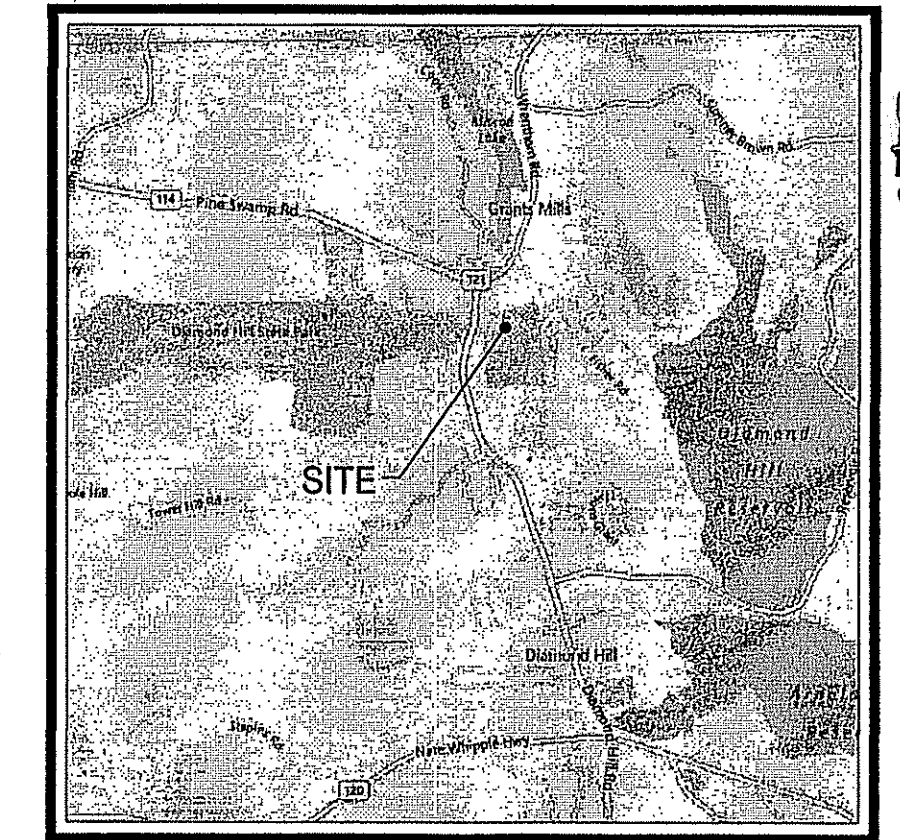
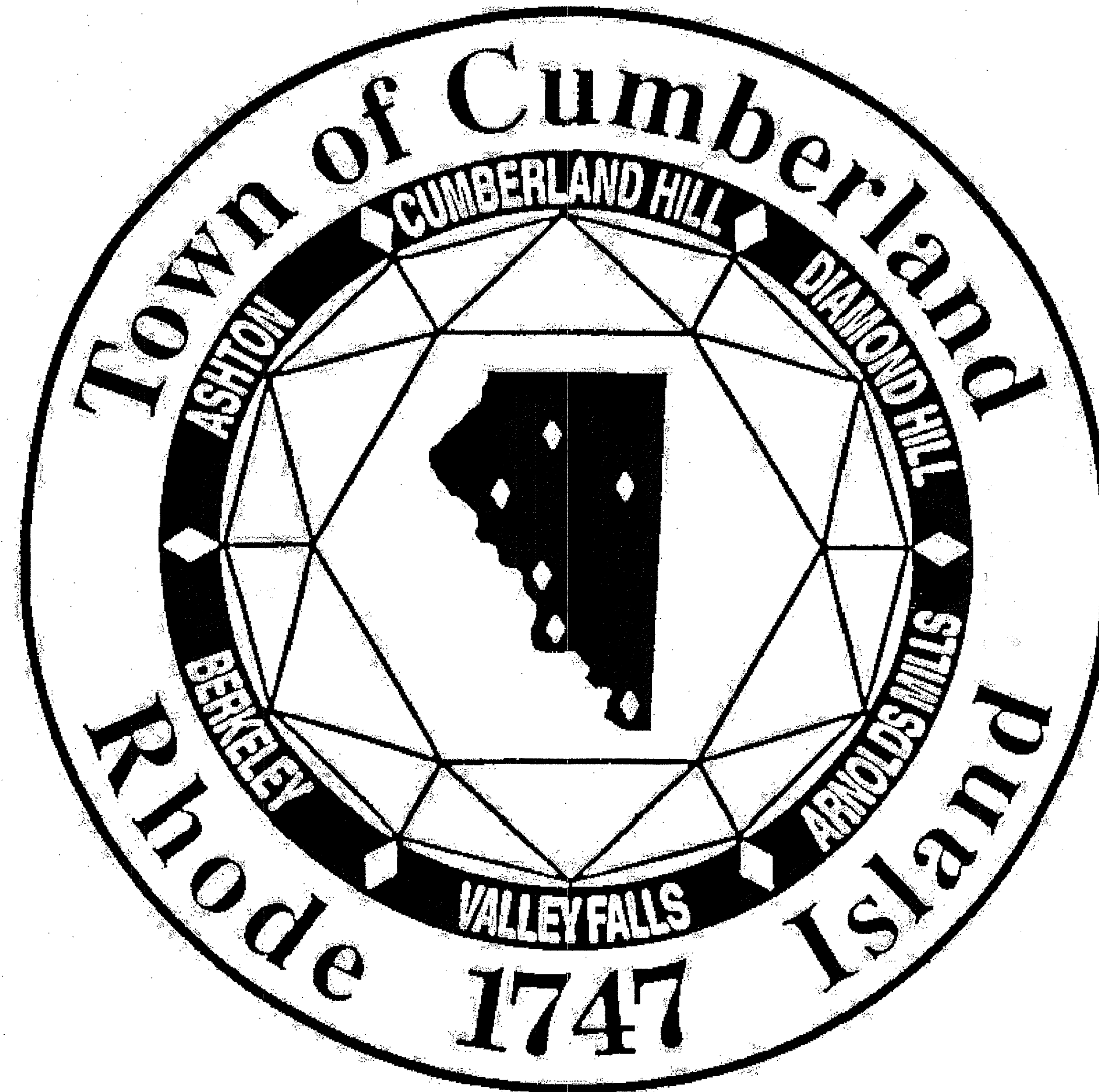
18750 Diamond Hill Park - Renovation to the Music Venue (Sheet 1 - Cover).dwg
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DIAMOND HILL PARK

RENOVATION TO THE MUSIC VENUE

A.P. 59, LOT 15
4097 DIAMOND HILL ROAD
CUMBERLAND, RI

CONSTRUCTION PLAN SET



LOCUS
NOT TO SCALE

Prepared for:
THE TOWN OF CUMBERLAND, RHODE ISLAND

Administered by:
TOWN OF CUMBERLAND DEPARTMENT OF PLANNING
DANIEL J. MCKEE, MAYOR

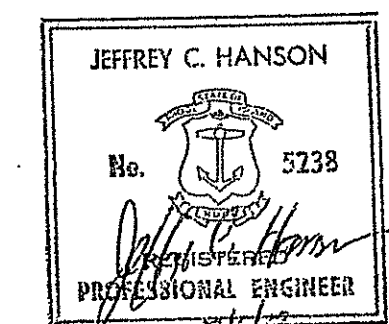
Prepared By:
THE GIFFORD DESIGN GROUP, Inc.
LANDSCAPE ARCHITECTURE ENVIRONMENTAL PLANNING

In Association with:
MILLSTONE ENGINEERING, P.C.

TABLE OF CONTENTS:

- SHEET 1 OF 11: COVER SHEET
- SHEET 2 OF 11: EXISTING CONDITIONS PLAN
- SHEET 3 OF 11: SITE DEMOLITION and SITE PREPARATION PLAN
- SHEET 4 OF 11: LAYOUT PLAN
- SHEET 5 OF 11: GRADING AND DRAINAGE PLAN
- SHEET 6 OF 11: SITE DETAILS
- SHEET 6a OF 11: SITE NOTES
- SHEET 7 OF 11: SURFACE and WALL DETAILS
- SHEET 8 OF 11: BOARDWALK DETAILS
- SHEET 9 OF 11: LANDSCAPE PLAN
- SHEET 10 OF 11: LANDSCAPE NOTES and DETAILS

JUNE 2013
W/ REVISIONS THROUGH 12-04-13

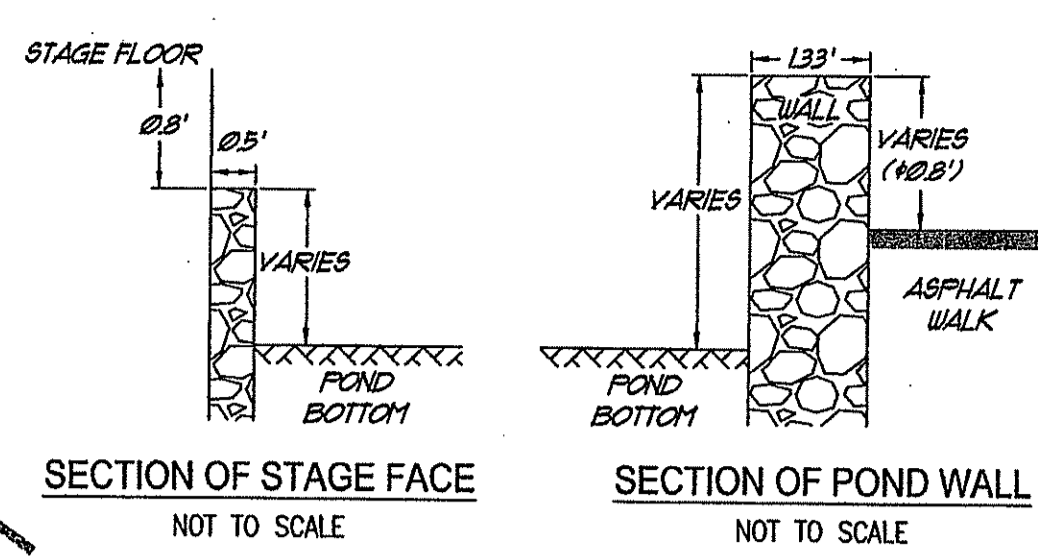
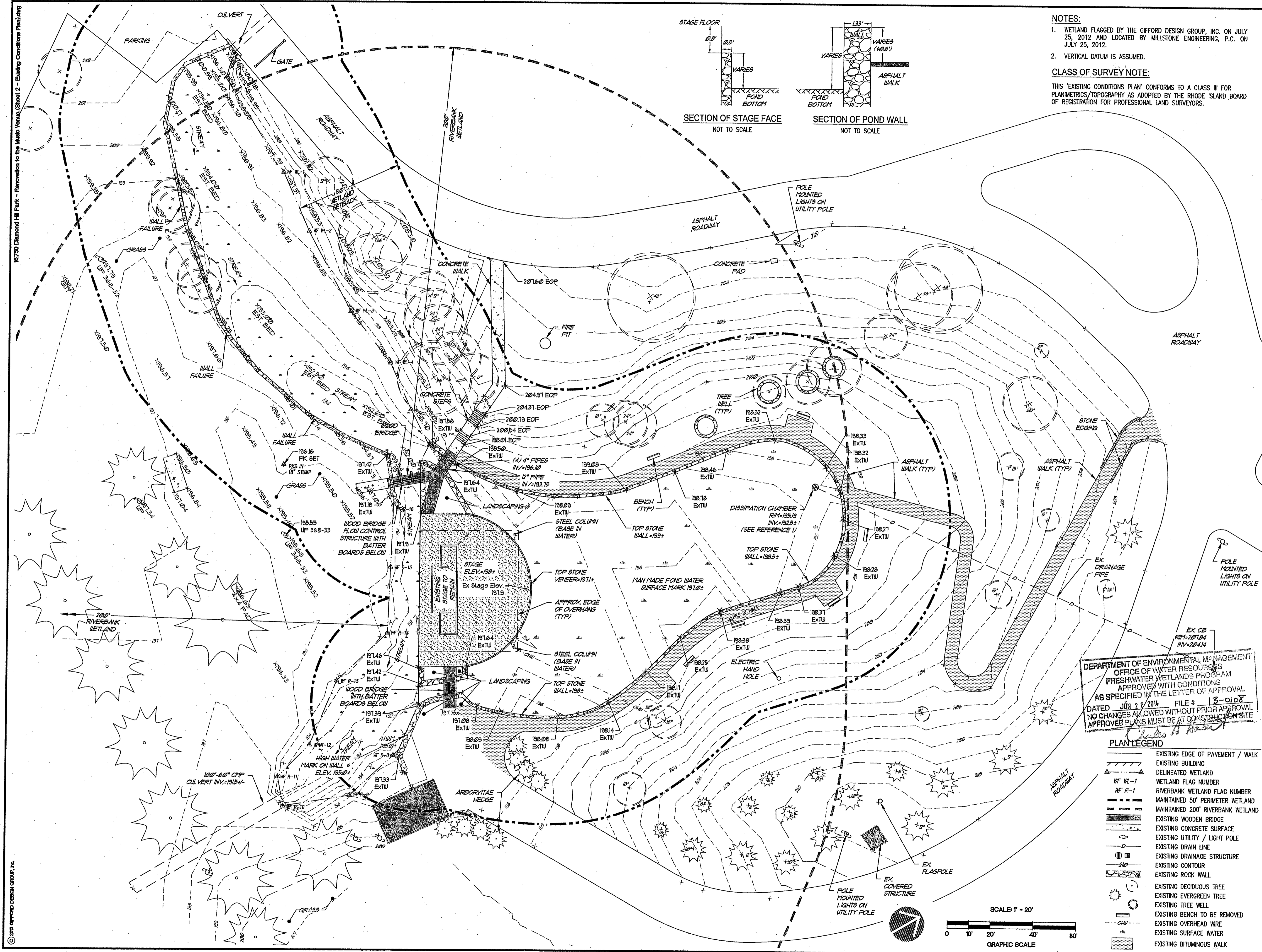


DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 26 2014 FILE # 13-0108
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Environmental Monitoring
MAR 20 2014
DRAWING 1 OF 11

DRAWING NO:
1

PLAN FOR NOTICE



NOTES:

1. WETLAND FLAGGED BY THE GIFFORD DESIGN GROUP, INC. ON JULY 25, 2012 AND LOCATED BY MILLSTONE ENGINEERING, P.C. ON JULY 25, 2012.
2. VERTICAL DATUM IS ASSUMED.

CLASS OF SURVEY NOTE:

THIS 'EXISTING CONDITIONS PLAN' CONFORMS TO A CLASS III FOR PLANIMETRICS/TOPOGRAPHY AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

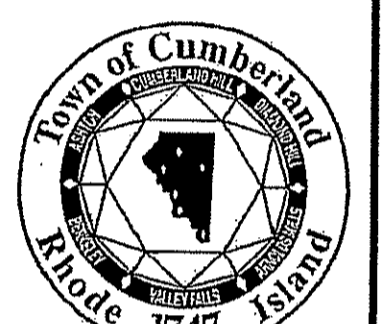
No.	Revision:	Date:

REFERENCES:

1. PLAN ENTITLED "GRADING PLAN, SITE IMPROVEMENTS PHASE 1: DIAMOND HILL STATE PARK, CUMBERLAND, RI" BY STATE OF RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, DIVISION OF PLANNING AND DEVELOPMENT; SHEET 57, DATED DECEMBER 1983.



DIAMOND HILL PARK RENOVATION TO THE MUSIC VENUE



A.P. 59, LOT 15
4097 DIAMOND HILL ROAD
CUMBERLAND, RI

OWNER:
TOWN OF CUMBERLAND
DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT
45 BROAD STREET
CUMBERLAND, RI 02864

THE GIFFORD DESIGN GROUP, Inc.
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL PLANNING
4056 MENDON ROAD, CUMBERLAND, RHODE ISLAND 02864
PHONE (401) 671-6386 FAX (401) 671-6466

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 25 2014 FILE # 13-0108
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

JERRY C. HANSON
No. 5239
12/6/13

George H. Gifford, III
No. 182
11.6.13

MILLSTONE ENGINEERING, P.C.
ONE ENGINEERING + CONSTRUCTION ARCHITECTURE + LAND PLANNING
250 CENTRAL AVENUE, SUITE 212, WARRICK, RHODE ISLAND 02881, (401) 934-1100

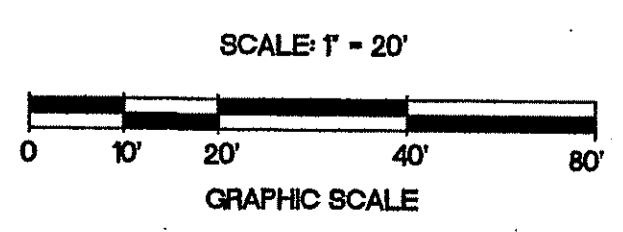
EXISTING CONDITIONS PLAN

PROJECT NO. 16.750 DRAWING 2 OF 11
DATE: JUNE 2013
SCALE: AS SHOWN
DRAWN BY: WS
CHECKED BY: GHG

DRAWING NO:
2

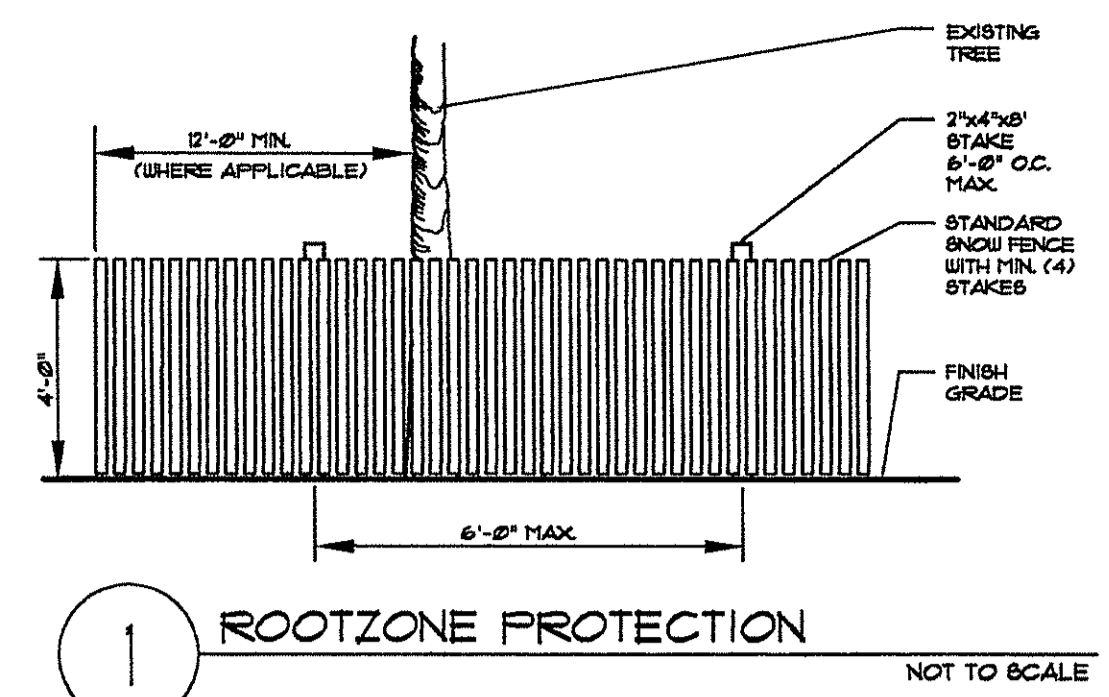
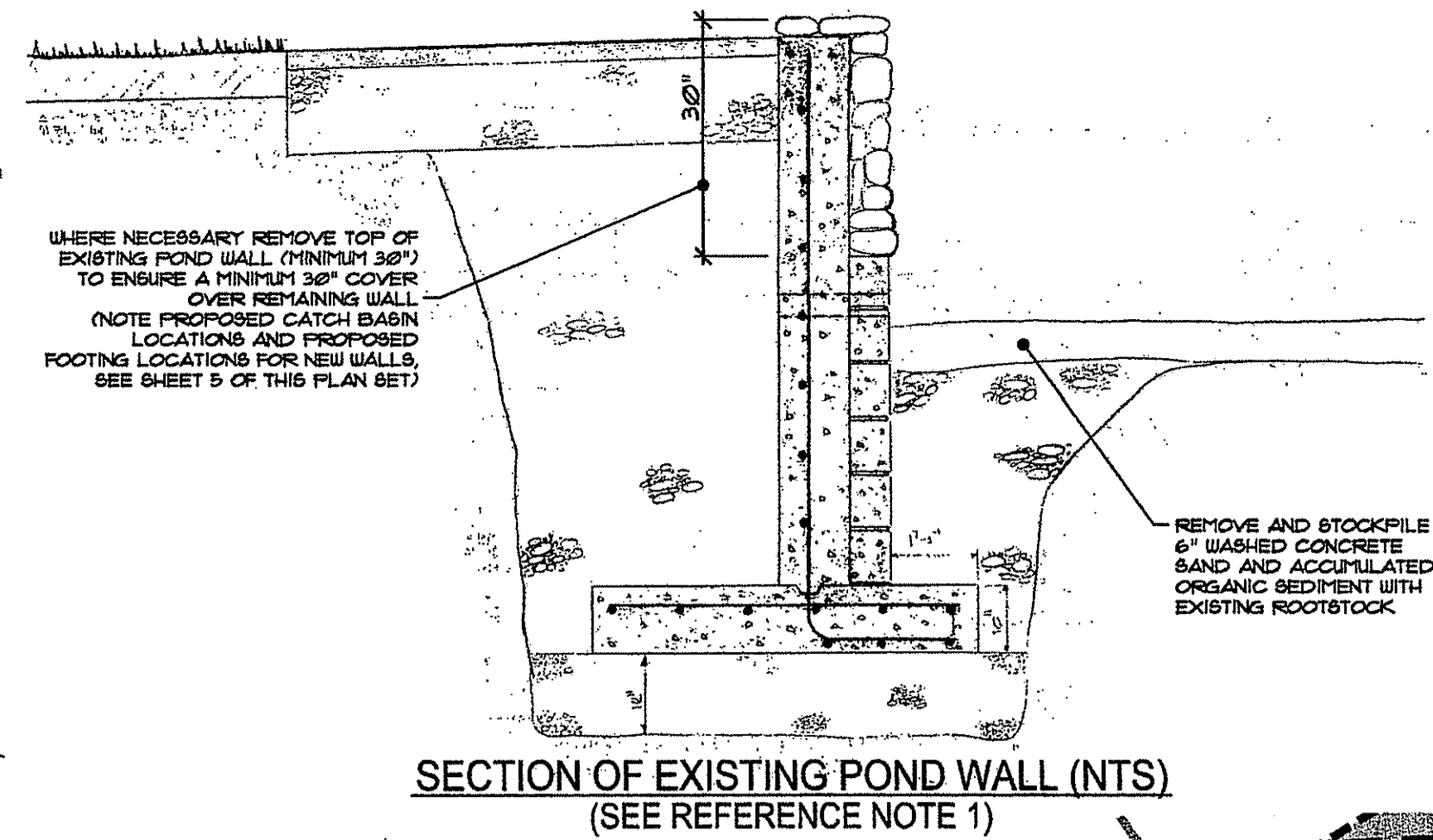
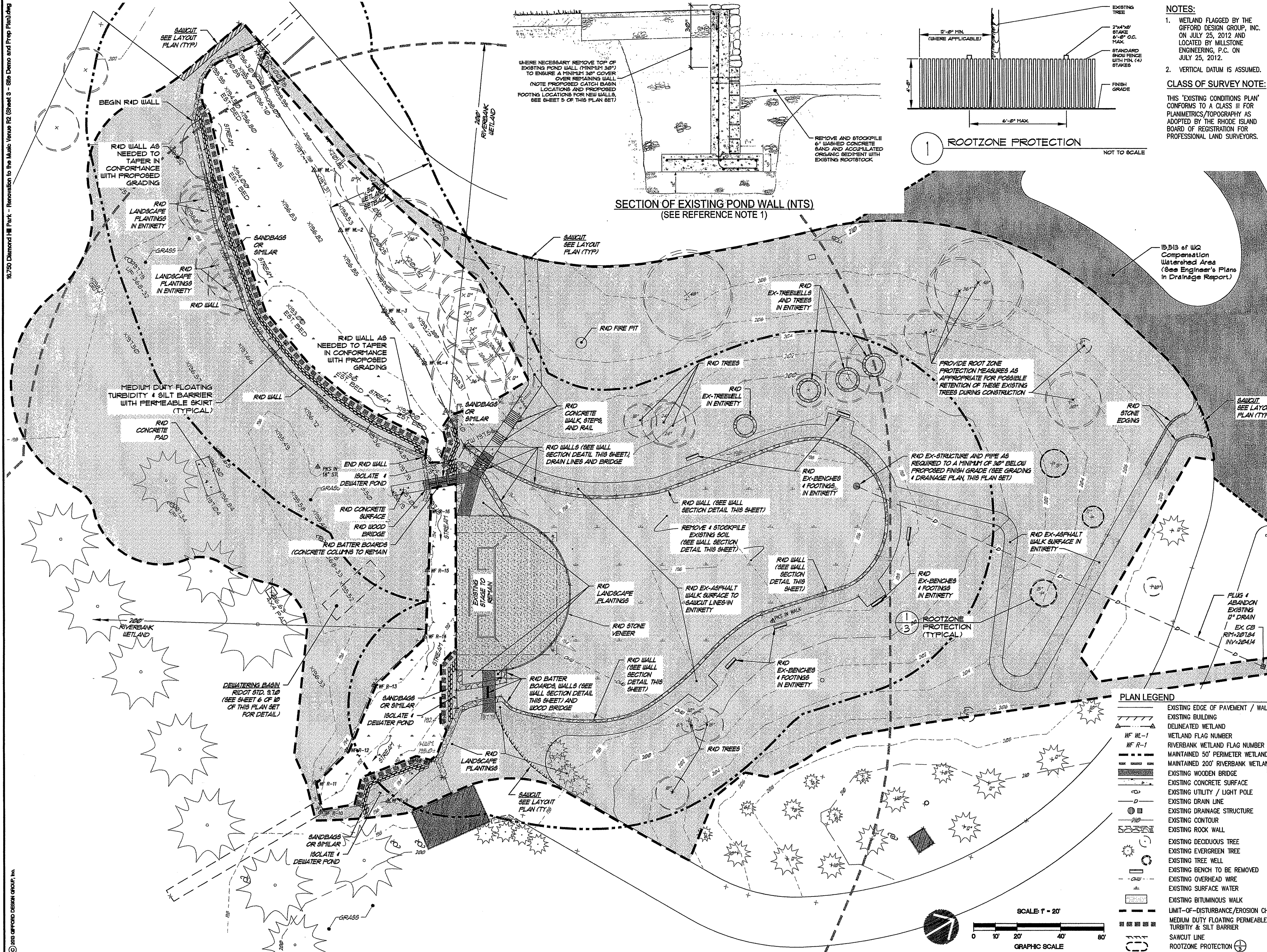
PLAN LEGEND

	EXISTING EDGE OF PAVEMENT / WALK
	EXISTING BUILDING
	DELINEATED WETLAND
	WETLAND FLAG NUMBER
	RIVERBANK WETLAND FLAG NUMBER
	MAINTAINED 50' PERIMETER WETLAND
	MAINTAINED 200' RIVERBANK WETLAND
	EXISTING WOODEN BRIDGE
	EXISTING CONCRETE SURFACE
	EXISTING UTILITY / LIGHT POLE
	EXISTING DRAIN LINE
	EXISTING DRAINAGE STRUCTURE
	EXISTING CONTOUR
	EXISTING ROCK WALL
	EXISTING DECIDUOUS TREE
	EXISTING EVERGREEN TREE
	EXISTING TREE WELL
	EXISTING BENCH TO BE REMOVED
	EXISTING OVERHEAD WIRE
	EXISTING SURFACE WATER
	EXISTING BITUMINOUS WALK



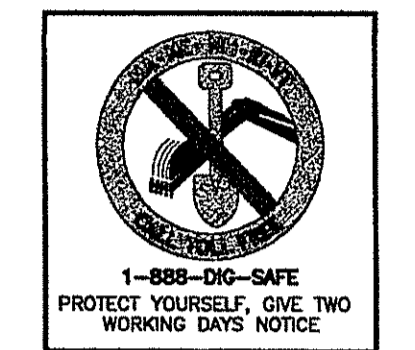
© 2013 GIFFORD DESIGN GROUP, INC. 16750 Diamond Hill Park - Renovation to the Music Venue, Sheet 2 - Existing Conditions Plan.dwg

16750 Diamond Hill Park - Renovation to the Music Venue R2 (Sheet 3 - Site Demo and Prep Planning)



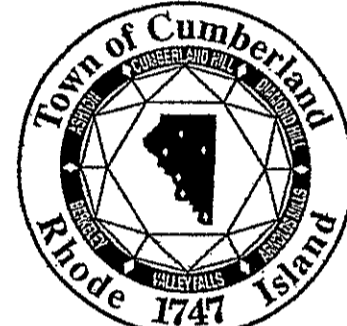
NOTES:
1. WETLAND FLAGGED BY THE GIFFORD DESIGN GROUP, INC. ON JULY 25, 2012 AND LOCATED BY MILLSTONE ENGINEERING, P.C. ON JULY 25, 2012.
2. VERTICAL DATUM IS ASSUMED.
CLASS OF SURVEY NOTE:
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REFERENCES:
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DIAMOND HILL PARK RENOVATION TO THE MUSIC VENUE

A.P. 59, LOT 15
4097 DIAMOND HILL ROAD
CUMBERLAND, RI



OWNER:
TOWN OF CUMBERLAND
DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT
45 BROAD STREET
CUMBERLAND, RI 02864

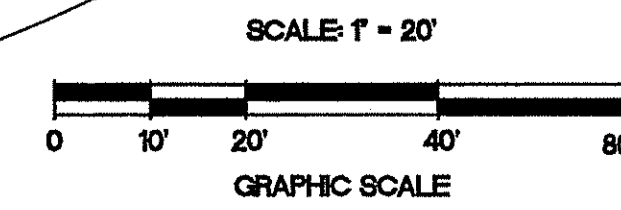
THE GIFFORD DESIGN GROUP, Inc.
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PHONE (401) 671-6886 FAX (401) 671-6466

JEFFREY C. HANSON
No. 5233
Professional Engineer
12/16/13



PLAN LEGEND

	EXISTING EDGE OF PAVEMENT / WALK
	EXISTING BUILDING
	DELINEATED WETLAND
	WETLAND FLAG NUMBER
	RIVERBANK WETLAND FLAG NUMBER
	MAINTAINED 50' PERIMETER WETLAND
	MAINTAINED 200' RIVERBANK WETLAND
	EXISTING WOODEN BRIDGE
	EXISTING CONCRETE SURFACE
	EXISTING UTILITY / LIGHT POLE
	EXISTING DRAIN LINE
	EXISTING DRAINAGE STRUCTURE
	EXISTING CONTOUR
	EXISTING ROCK WALL
	EXISTING DECIDUOUS TREE
	EXISTING EVERGREEN TREE
	EXISTING TREE WELL
	EXISTING BENCH TO BE REMOVED
	EXISTING OVERHEAD WIRE
	EXISTING SURFACE WATER
	EXISTING BITUMINOUS WALK
	LIMIT-OF-DISTURBANCE/EROSION CHECK
	MEDIUM DUTY FLOATING PERMEABLE TURBIDITY & SILT BARRIER
	SAWCUT LINE
	ROOTZONE PROTECTION



MILLSTONE ENGINEERING, P.C.
CIVIL ENGINEERING - LANDSCAPE ARCHITECTURE - LAND SURVEYING
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 26 2014 FILE # 13-0108
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

SITE DEMOLITION and PREPARATION PLAN

PROJECT NO. 16.750 DRAWING 3 OF 11
DATE: JUNE 2013 DRAWING NO: 3
SCALE: AS SHOWN
DRAWN BY: WS
CHECKED BY: GHG

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18,750 Diamond Hill Park - Renovation to the Music Venue R2 (Sheet 4 - Layout Plan) (shg)

GENERAL LAYOUT NOTES:

1. BASELINE: CENTERLINE THROUGH EXISTING STAGE PLATFORM (SOUTHWEST TO NORTHEAST).
2. ALL PEDESTRIAN LAYOUT DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO BASELINE.
3. SEE SHEET 1 OF 10 FOR SURFACE TREATMENT, WALL, FENCE AND HANDRAIL DETAILS.
4. SEE SHEET 8 OF 10 FOR BOARDWALK DETAILS.
5. CONTRACTOR SHALL STAKE PAVEMENT ALIGNMENT IN FIELD FOR REVIEW PRIOR TO INSTALLATION.

NOTES:

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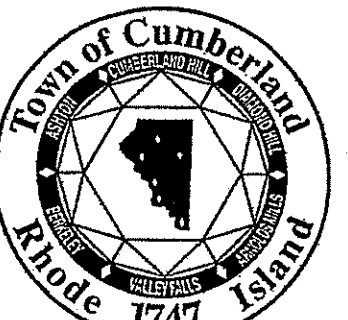
No.	Revisions	Date
1	Enlarge mitigation wetland area	8-27-13
2	Compensation area	12-04-13

REFERENCES:



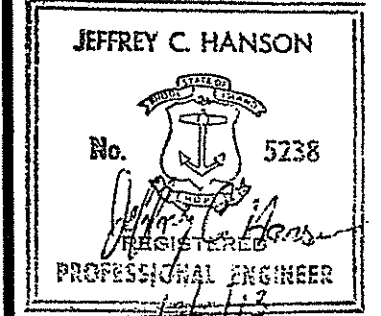
**DIAMOND HILL PARK
RENOVATION TO
THE MUSIC VENUE**

A.P. 59, LOT 15
4097 DIAMOND
HILL ROAD
CUMBERLAND, RI



OWNER:
TOWN OF CUMBERLAND
DEPARTMENT OF PLANNING AND
COMMUNITY DEVELOPMENT
45 BROAD STREET
CUMBERLAND, RI 02864

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CIVIL ENGINEERING • LANDSCAPE ARCHITECTURE • LAND PLANNING
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PHONE (401) 671-6386 FAX (401) 671-6466

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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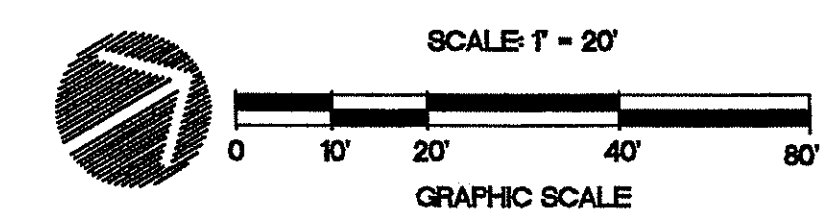
LAYOUT PLAN

PROJECT NO. 16,750 DRAWING 4 OF 11

DATE: JUNE 2013
SCALE: AS SHOWN
DRAWN BY: WS
CHECKED BY: GHG

DRAWING NO:

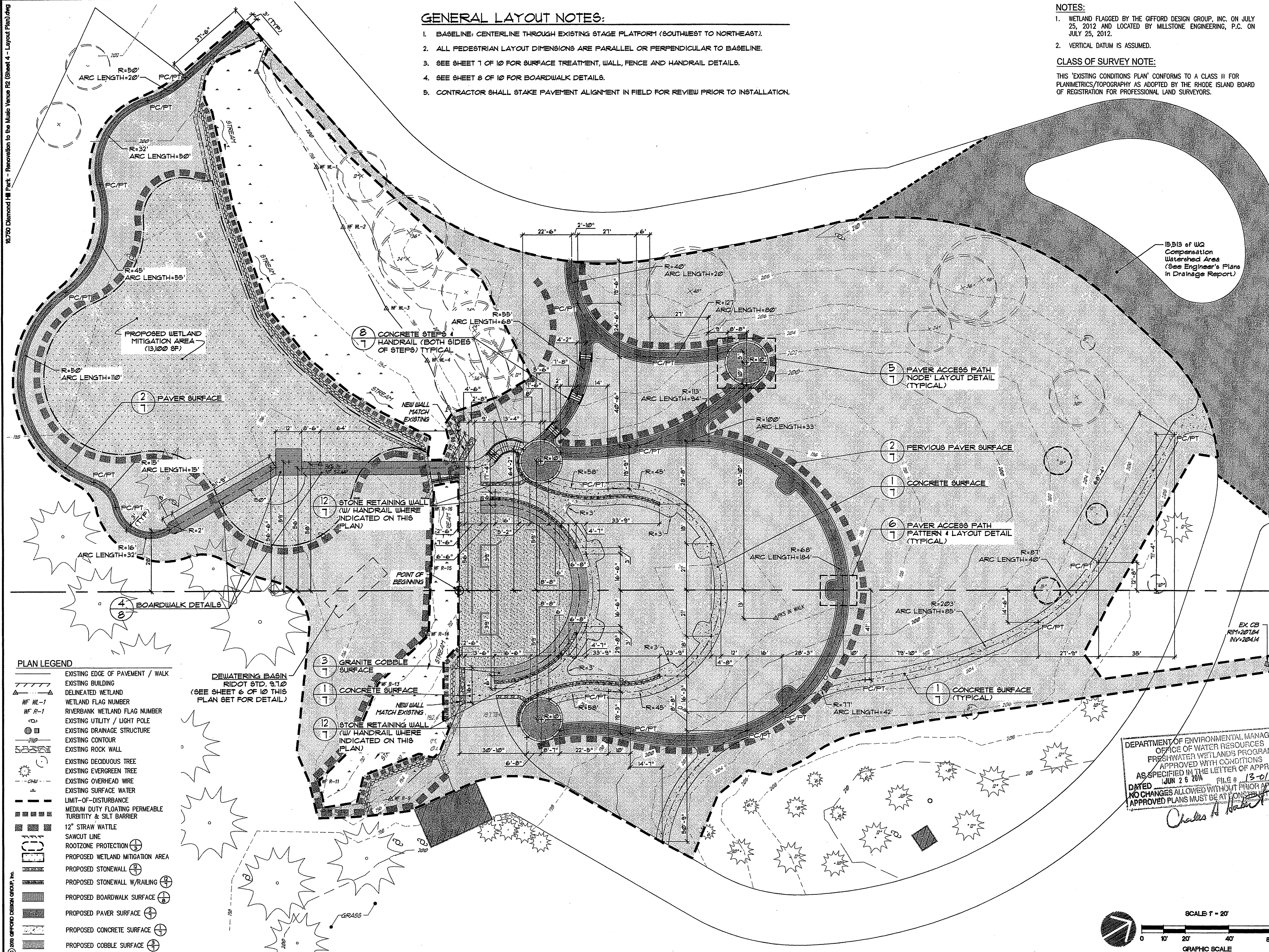
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PLAN LEGEND

	EXISTING EDGE OF PAVEMENT / WALK
	EXISTING BUILDING
	DELINEATED WETLAND
	WETLAND FLAG NUMBER
	RIVERBANK WETLAND FLAG NUMBER
	EXISTING UTILITY / LIGHT POLE
	EXISTING DRAINAGE STRUCTURE
	EXISTING CONTOUR
	EXISTING ROCK WALL
	EXISTING DECIDUOUS TREE
	EXISTING EVERGREEN TREE
	EXISTING OVERHEAD WIRE
	EXISTING SURFACE WATER
	LIMIT-OF-DISTURBANCE
	MEDIUM DUTY FLOATING PERMEABLE TURBIDITY & SILT BARRIER
	12" STRAW WATTLE
	SAWCUT LINE
	ROOTZONE PROTECTION
	PROPOSED WETLAND MITIGATION AREA
	PROPOSED STONEWALL
	PROPOSED STONEWALL W/RAILING
	PROPOSED BOARDWALK SURFACE
	PROPOSED PAVER SURFACE
	PROPOSED CONCRETE SURFACE
	PROPOSED COBBLE SURFACE

DEWATERING BASIN
RIDOT STD. 9.1.10
(SEE SHEET 6 OF 10 THIS PLAN SET FOR DETAIL)



15,513 sq ft WQ Compensation Watershed Area (See Engineer's Plans in Drainage Report)

CONCRETE STEPS & HANDRAIL (BOTH SIDES OF STEPS) TYPICAL

PAVER ACCESS PATH NODE LAYOUT DETAIL (TYPICAL)

FERVIQUS PAVER SURFACE

CONCRETE SURFACE

PAVER ACCESS PATH PATTERN & LAYOUT DETAIL (TYPICAL)

CONCRETE SURFACE (TYPICAL)

GRANITE COBBLE SURFACE

CONCRETE SURFACE

STONE RETAINING WALL (W/ HANDRAIL WHERE INDICATED ON THIS PLAN)

STONE RETAINING WALL (W/ HANDRAIL WHERE INDICATED ON THIS PLAN)

BOARDWALK DETAILS

PAVER SURFACE

PROPOSED WETLAND MITIGATION AREA (13,100 SF)

ARC LENGTH=20'

ARC LENGTH=50'

ARC LENGTH=55'

ARC LENGTH=110'

ARC LENGTH=15'

ARC LENGTH=32'

STONE RETAINING WALL (W/ HANDRAIL WHERE INDICATED ON THIS PLAN)

CONCRETE SURFACE

STONE RETAINING WALL (W/ HANDRAIL WHERE INDICATED ON THIS PLAN)

BOARDWALK DETAILS

GRANITE COBBLE SURFACE

CONCRETE SURFACE

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BOARDWALK DETAILS

GRANITE COBBLE SURFACE

CONCRETE SURFACE

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GRANITE COBBLE SURFACE

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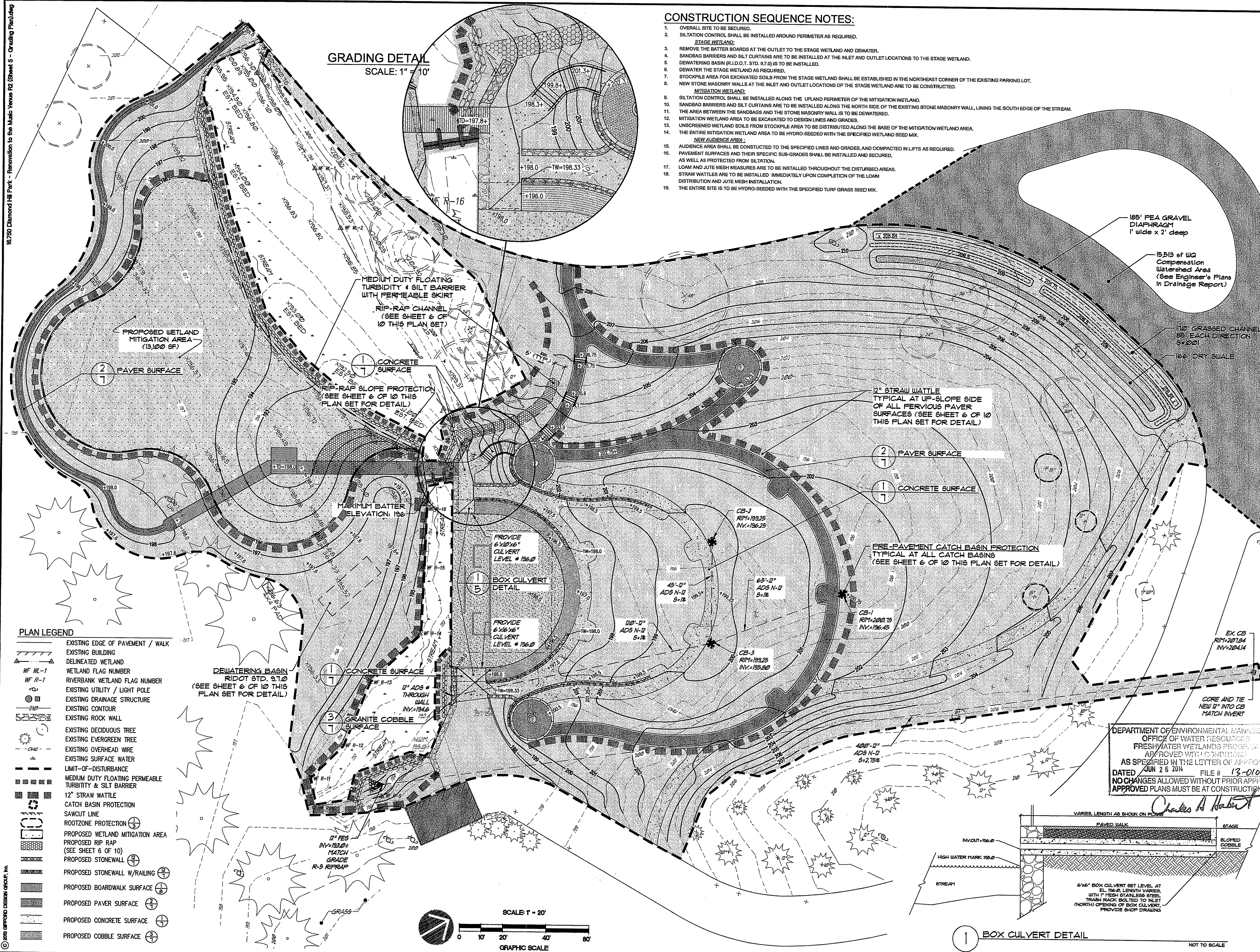
ARC LENGTH=15'

ARC LENGTH=32'

GRANITE COBBLE SURFACE

CONCRETE SURFACE

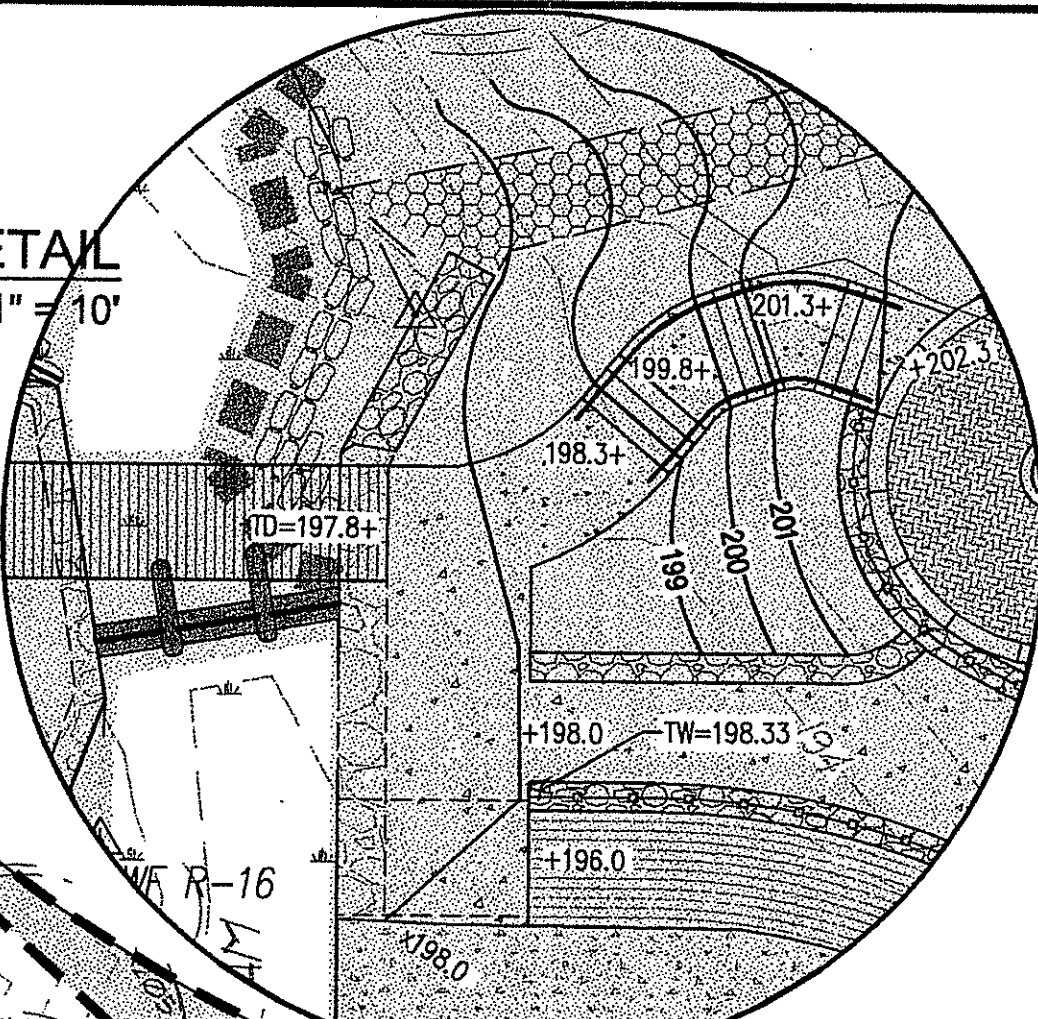
STONE



CONSTRUCTION SEQUENCE NOTES:

- OVERALL SITE TO BE SECURED.
- SILTATION CONTROL SHALL BE INSTALLED AROUND PERIMETER AS REQUIRED.
- REMOVE THE BATTER BOARDS AT THE OUTLET TO THE STAGE WETLAND AND DEWATER.
- SANDBAG BARRIERS AND SILT CURTAINS ARE TO BE INSTALLED AT THE INLET AND OUTLET LOCATIONS TO THE STAGE WETLAND.
- DEWATERING BASIN (R.I.D.O.T. STD. 910) IS TO BE INSTALLED.
- DEWATER THE STAGE WETLAND AS REQUIRED.
- STOCKPILE AREA FOR EXCAVATED SOILS FROM THE STAGE WETLAND SHALL BE ESTABLISHED IN THE NORTHEAST CORNER OF THE EXISTING PARKING LOT.
- NEW STONE MASONRY WALLS AT THE INLET AND OUTLET LOCATIONS OF THE STAGE WETLAND ARE TO BE CONSTRUCTED.
- MITIGATION WETLAND:**
- SILTATION CONTROL SHALL BE INSTALLED ALONG THE UPLAND PERIMETER OF THE MITIGATION WETLAND.
- SANDBAG BARRIERS AND SILT CURTAINS ARE TO BE INSTALLED ALONG THE NORTH SIDE OF THE EXISTING STONE MASONRY WALL, LINING THE SOUTH EDGE OF THE STREAM.
- THE AREA BETWEEN THE SANDBAGS AND THE STONE MASONRY WALL IS TO BE DEWATERED.
- MITIGATION WETLAND AREA TO BE EXCAVATED TO DESIGN LINES AND GRADES.
- UNSCREENED WETLAND SOILS FROM STOCKPILE AREA TO BE DISTRIBUTED ALONG THE BASE OF THE MITIGATION WETLAND AREA.
- THE ENTIRE MITIGATION WETLAND AREA TO BE HYDRO-SEEDED WITH THE SPECIFIED WETLAND SEED MIX.
- NEW AUDIENCE AREA:**
- AUDIENCE AREA SHALL BE CONSTRUCTED TO THE SPECIFIED LINES AND GRADES, AND COMPACTED IN LIFTS AS REQUIRED.
- PAVEMENT SURFACES AND THEIR SPECIFIC SUB-GRADES SHALL BE INSTALLED AND SECURED, AS WELL AS PROTECTED FROM SILTATION.
- LOAM AND JUTE MESH MEASURES ARE TO BE INSTALLED THROUGHOUT THE DISTURBED AREAS.
- STRAW WATTLES ARE TO BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE LOAM DISTRIBUTION AND JUTE MESH INSTALLATION.
- THE ENTIRE SITE IS TO BE HYDRO-SEEDED WITH THE SPECIFIED TURF GRASS SEED MIX.

GRADING DETAIL
SCALE: 1" = 10'



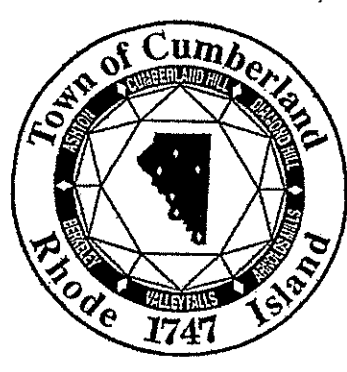
No.	Revision:	Date:
1	Filter sock & turbidity curtain	7-19-13
2	Falses wetland mitigation area	8-27-13
3	Grading and compensation area	12-04-13

REFERENCES:



DIAMOND HILL PARK RENOVATION TO THE MUSIC VENUE

A.P. 59, LOT 15
4097 DIAMOND HILL ROAD
CUMBERLAND, RI



OWNER:
TOWN OF CUMBERLAND
DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT
45 BROAD STREET
CUMBERLAND, RI 02864

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JEFFREY C. HANSON
No. 5239
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ONE ENGINEERING • LANDSCAPE ARCHITECTURE • LAND PLANNING
50 CENTVILLE ROAD, BAZING HIL, WINDHAM, RHODE ISLAND 02891 • (401) 528-1100

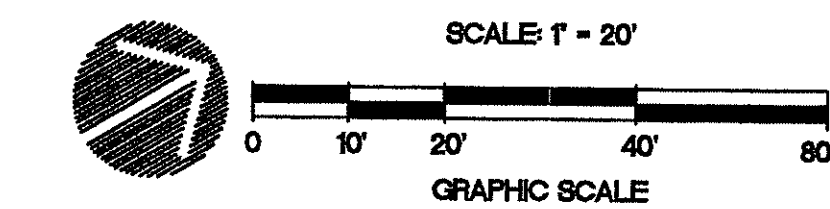
GRADING and DRAINAGE PLAN

PROJECT NO. 16.750 DRAWING 5 OF 11
DATE: JUNE 2013
SCALE: AS SHOWN
DRAWN BY: WS
CHECKED BY: GHG

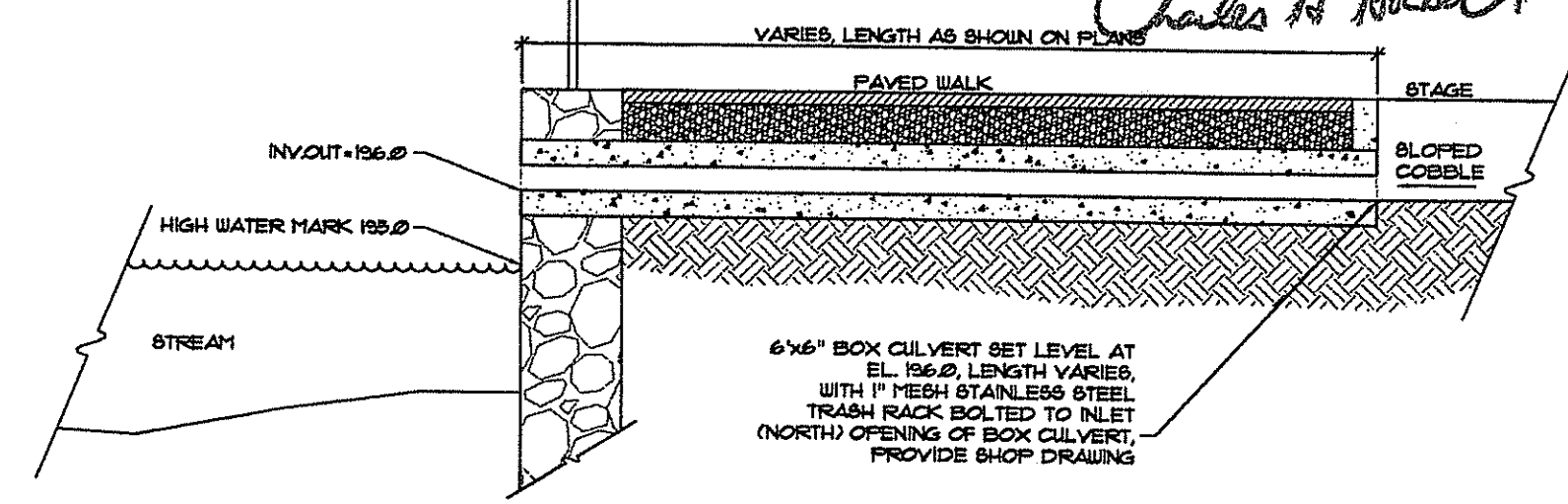
DRAWING NO:
5

PLAN LEGEND

- EXISTING EDGE OF PAVEMENT / WALK
- EXISTING BUILDING
- DELINEATED WETLAND
- WETLAND FLAG NUMBER
- WF ML-1
- WF R-1
- RIVERBANK WETLAND FLAG NUMBER
- EXISTING UTILITY / LIGHT POLE
- EXISTING DRAINAGE STRUCTURE
- EXISTING CONTOUR
- EXISTING ROCK WALL
- EXISTING DECIDUOUS TREE
- EXISTING EVERGREEN TREE
- EXISTING OVERHEAD WIRE
- EXISTING SURFACE WATER
- LIMIT-OF-DISTURBANCE
- MEDIUM DUTY FLOATING PERMEABLE TURBIDITY & SILT BARRIER
- 12" STRAW WATTLE
- CATCH BASIN PROTECTION
- SAWCUT LINE
- ROOTZONE PROTECTION
- PROPOSED WETLAND MITIGATION AREA
- PROPOSED RIP RAP (SEE SHEET 6 OF 10)
- PROPOSED STONEWALL
- PROPOSED STONEWALL W/RAILING
- PROPOSED BOARDWALK SURFACE
- PROPOSED PAVER SURFACE
- PROPOSED CONCRETE SURFACE
- PROPOSED COBBLE SURFACE



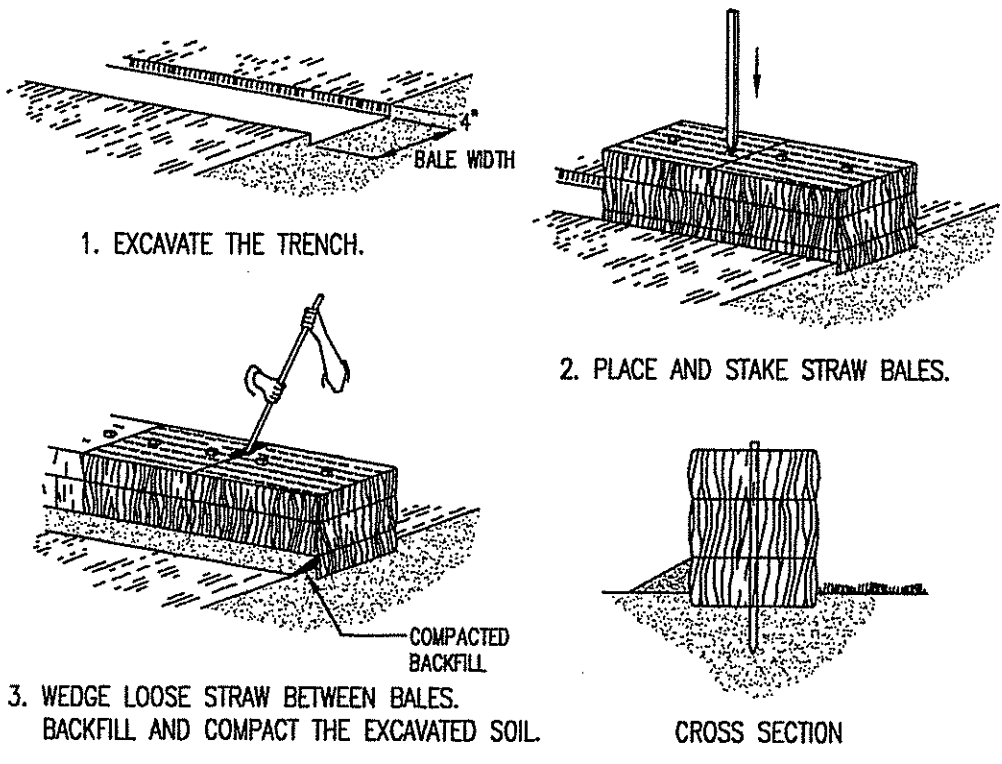
1 BOX CULVERT DETAIL



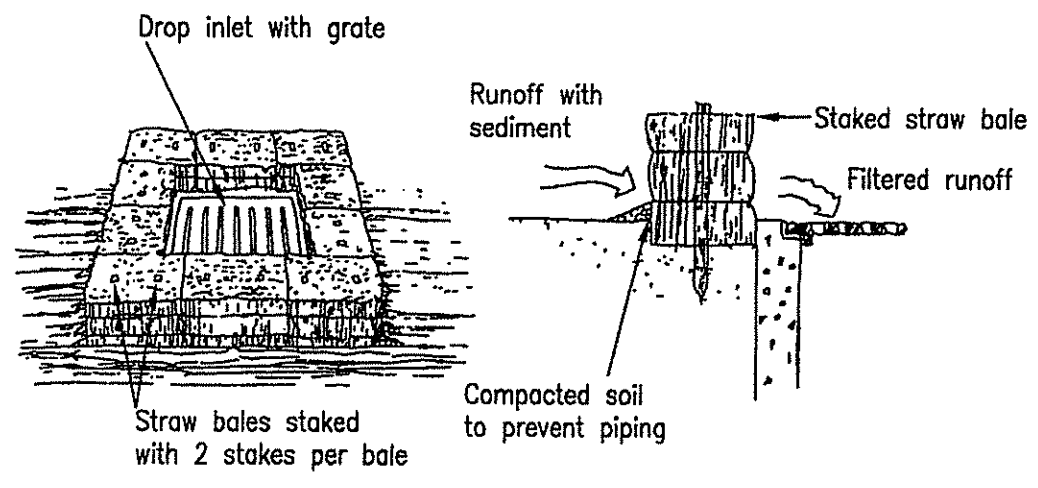
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 26 2014 FILE # 13-0108
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Hanson

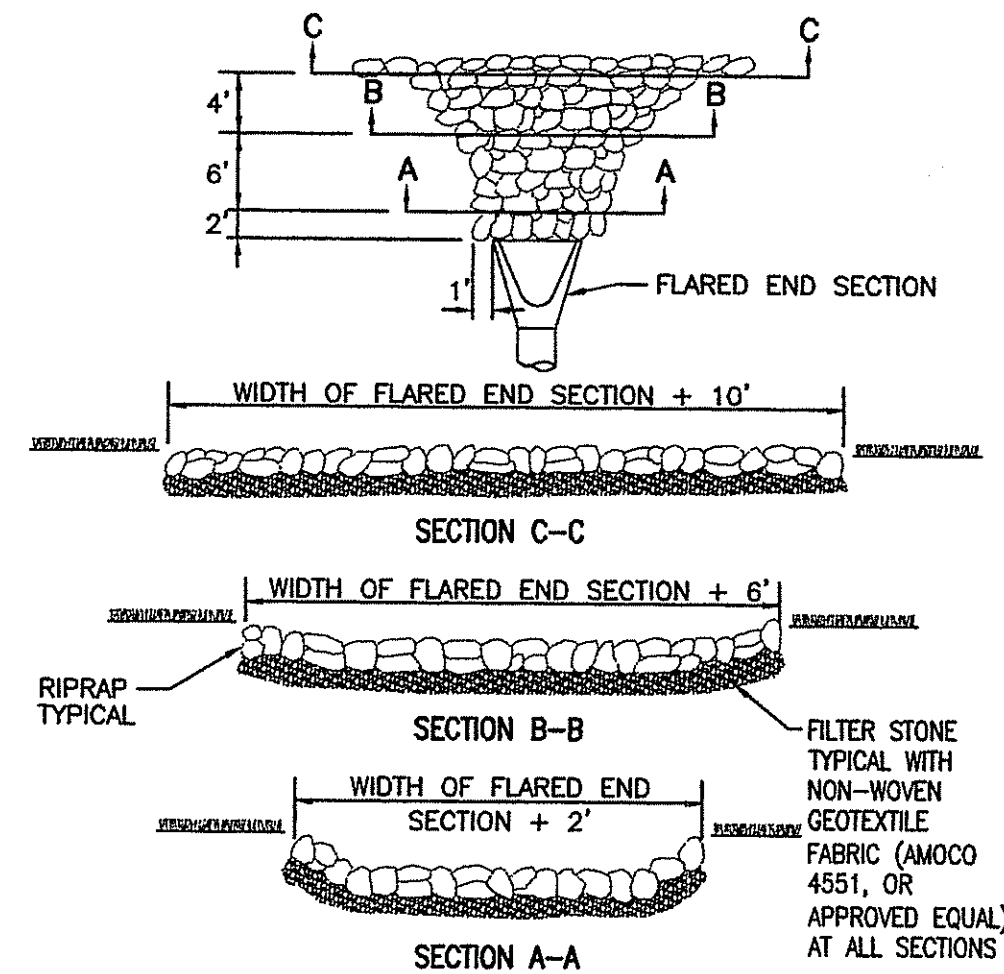
MAY 20 2014



PLACEMENT AND CONSTRUCTION OF HAYBALE EROSION CHECK
NOT TO SCALE



PRE-PAVEMENT CATCH BASIN PROTECTION
NOT TO SCALE

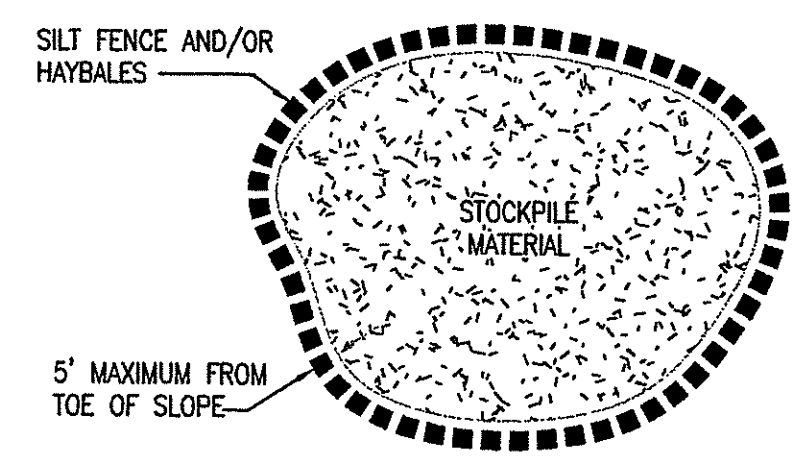


ROCKFILL RIP-RAP AT FLARED END SECTION
NOT TO SCALE

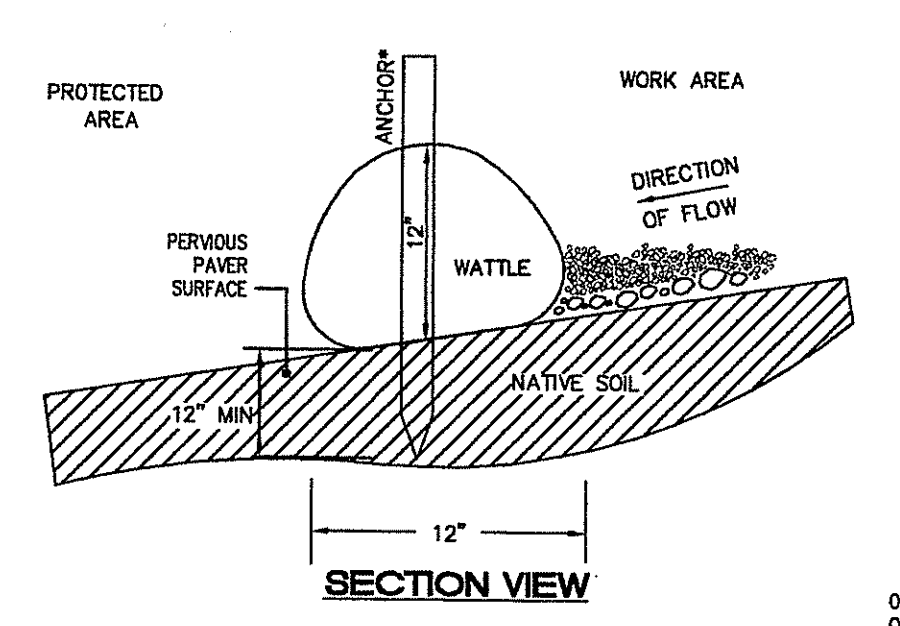
- NOTES:**
- SEE SITE PLAN FOR CLASS OF RIP-RAP TO BE USED
 - SEE FILTER STONE CHART FOR APPROPRIATE FILTER STONE TYPE AND DEPTH
 - DIMENSIONS MAY BE MODIFIED BY ENGINEER TO MEET FIELD CONDITIONS.
 - UNLESS OTHERWISE SPECIFIED, DUMPED RIP-RAP SHALL BE USED.

RIPRAP	FILTER STONE	DEPTH
R-1	FS-1	6"
R-2	FS-2	6"
R-3	FS-2	6"
R-4	FS-3	7.5"
R-5	FS-3	7.5"
R-6	FS-2 and R-2	6"/ 6"
R-7	FS-3 and R-4	7.5"/ 21"
R-8	FS-3 and R-4	7.5"/ 21"

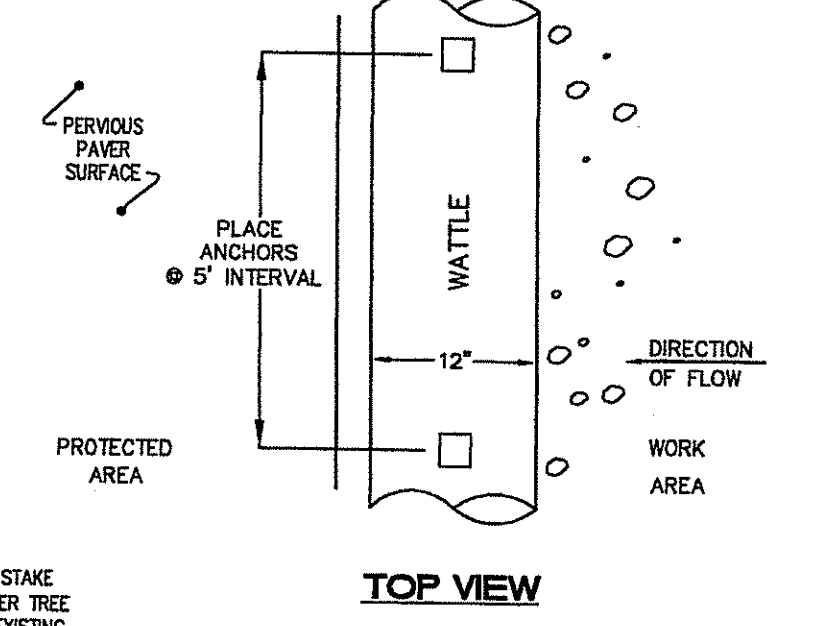
FILTER STONE CHART



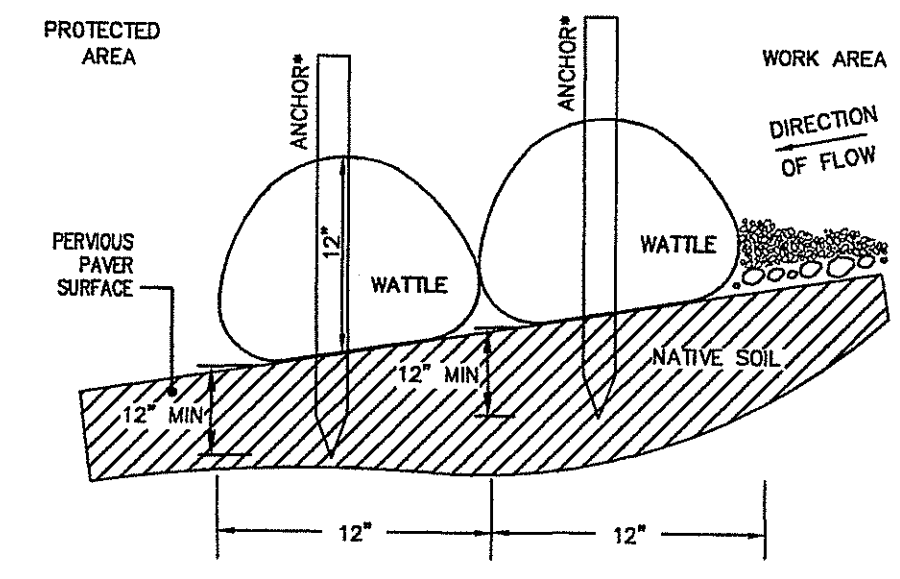
STOCKPILE DETAIL
NOT TO SCALE



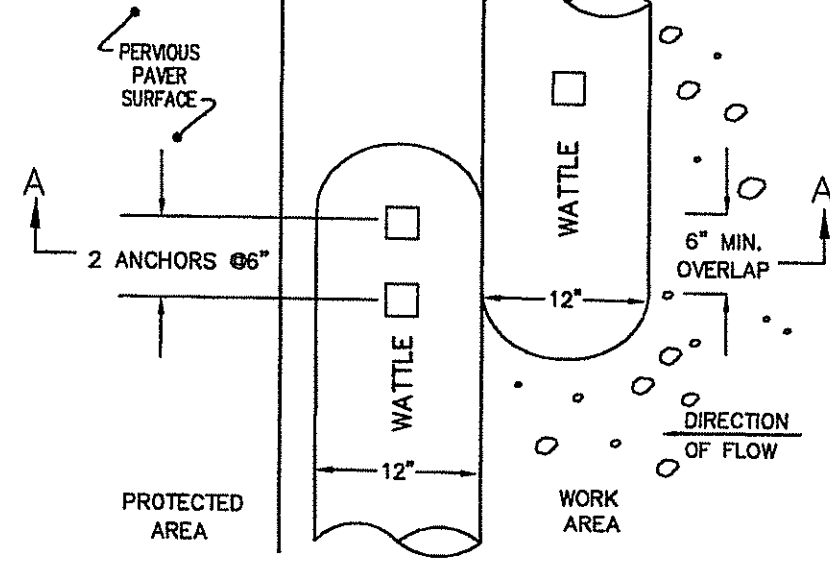
SECTION VIEW



TOP VIEW

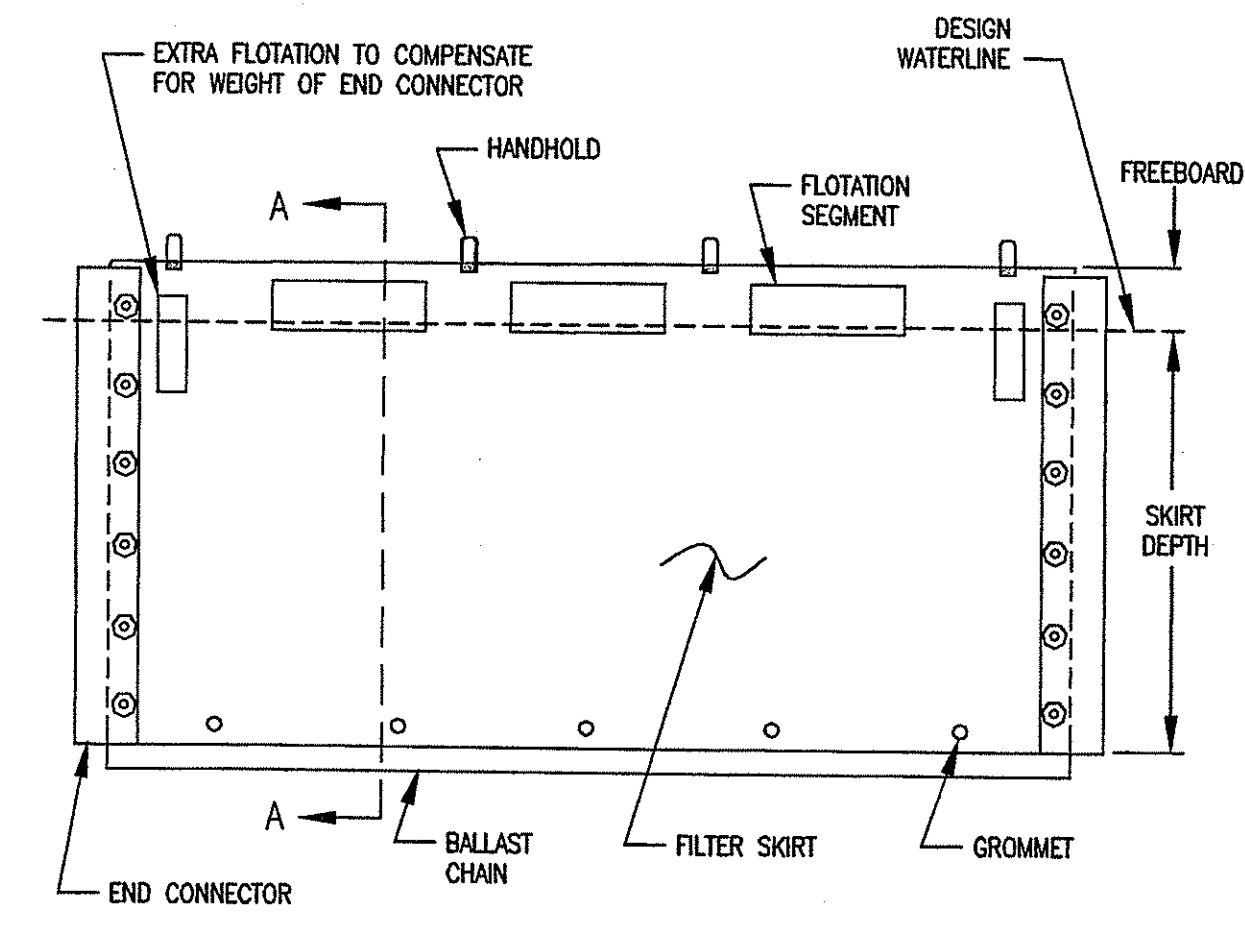


OVERLAP SECTION A-A

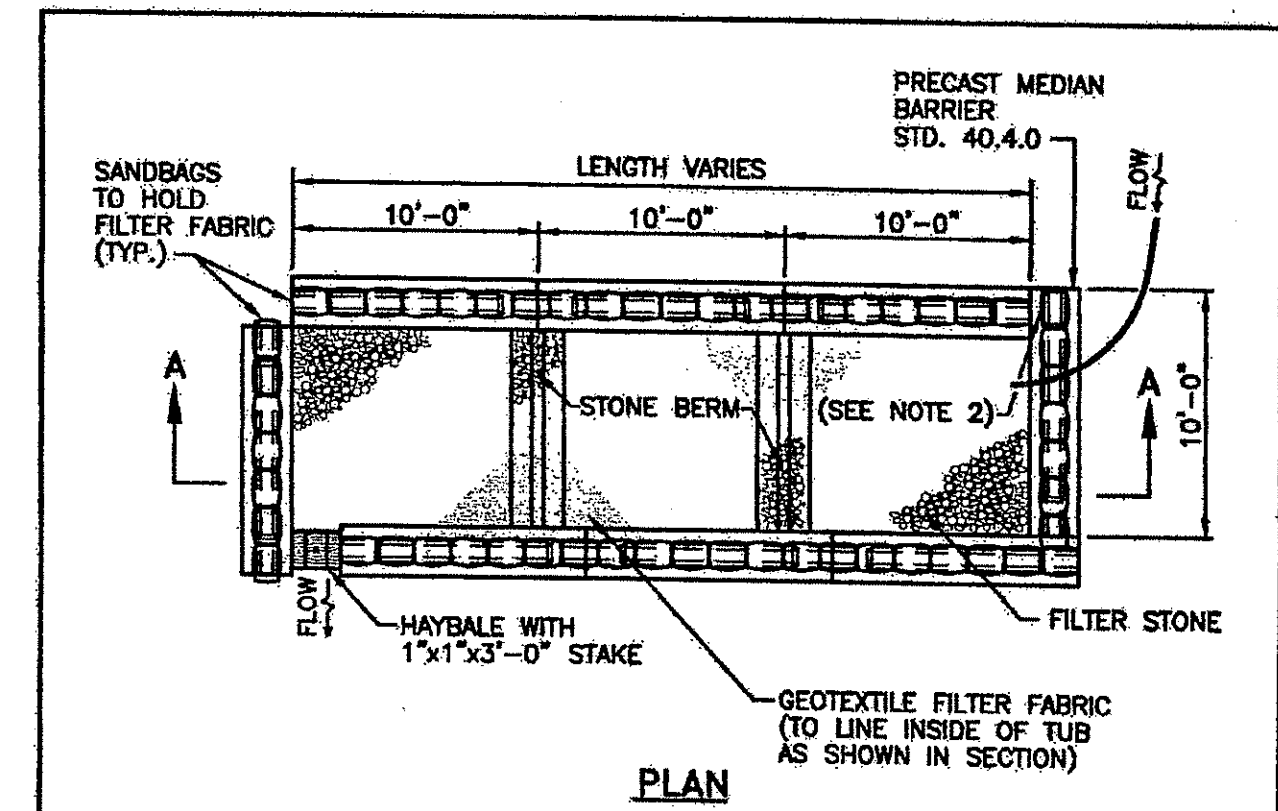


OVERLAP TOP VIEW

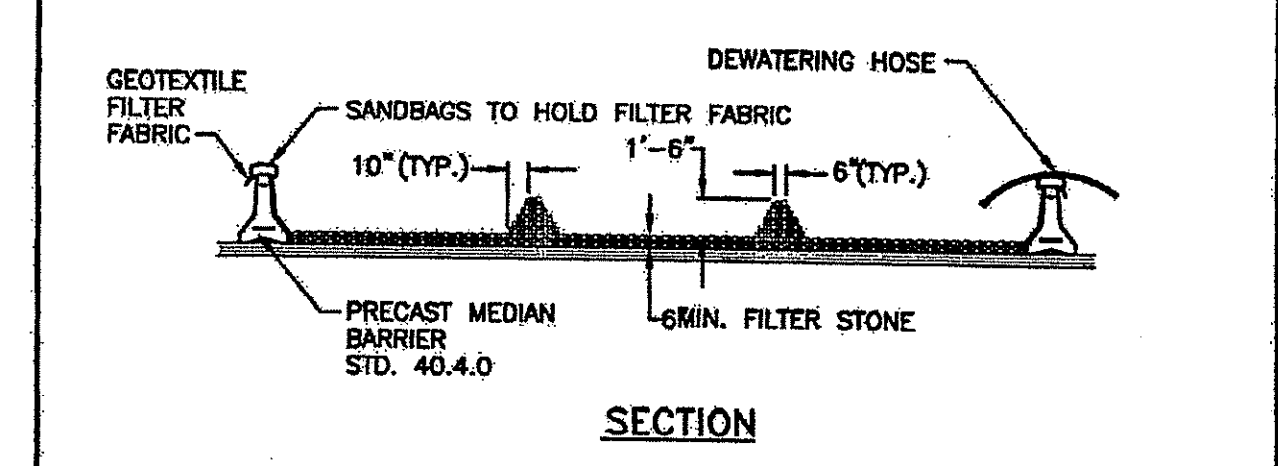
12\"/>



MEDIUM DUTY FLOATING PERMEABLE TURBIDITY AND SILT BARRIER DETAIL
NOT TO SCALE



PLAN



SECTION

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

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

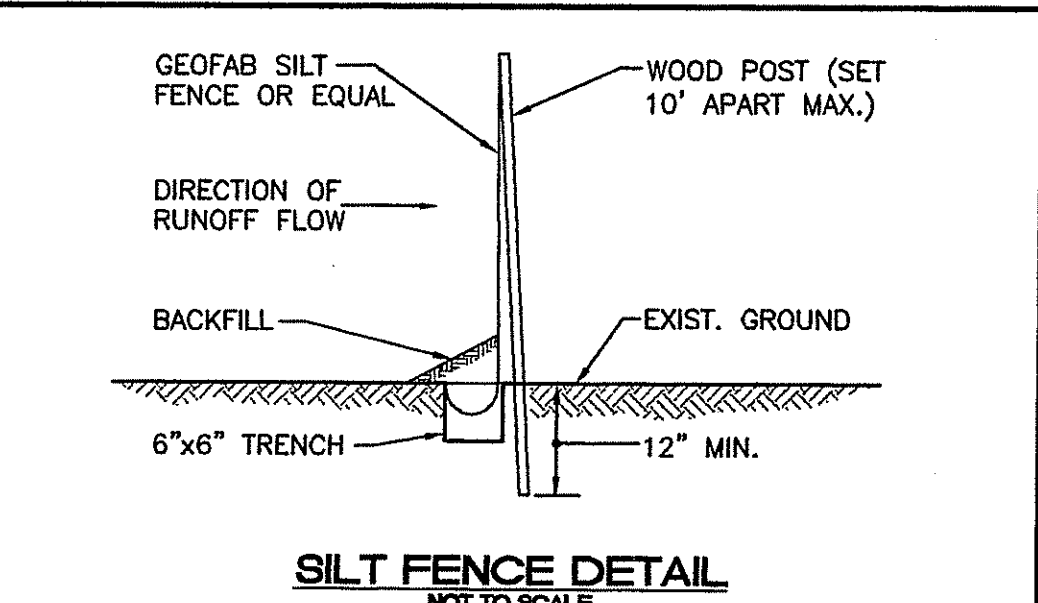
DEWATERING BASIN

REVISIONS:

NO.	BY	DATE

APPROVED: *James G. ...* JUN 15, 1998

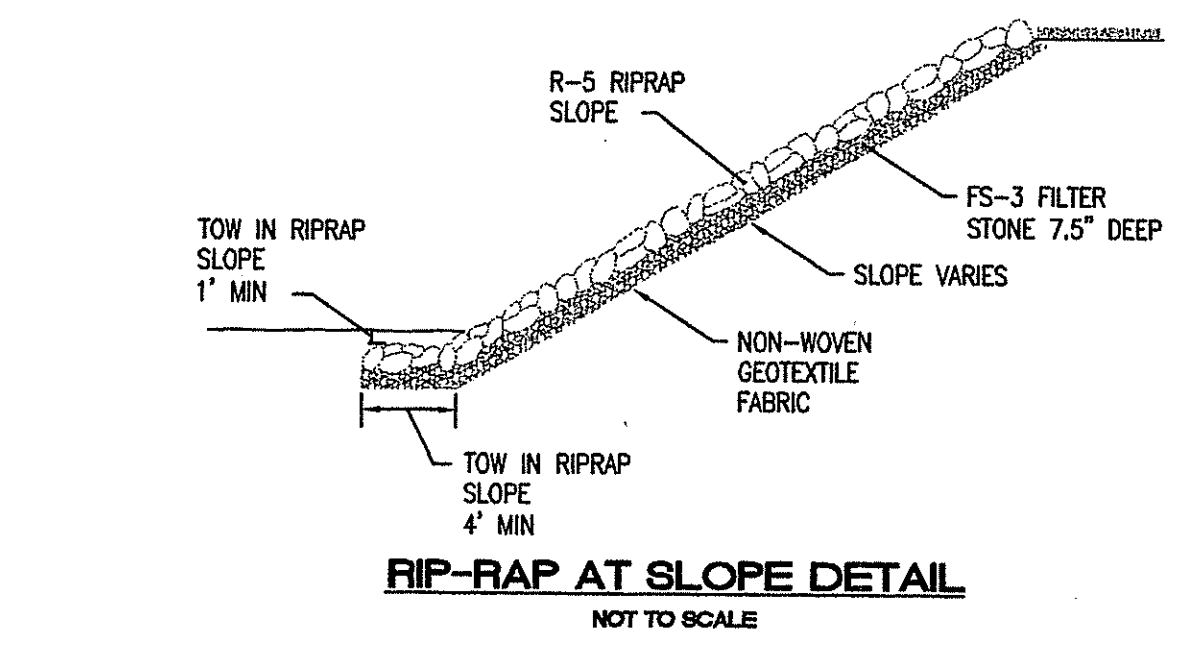
R.I. STANDARD 9.7.0



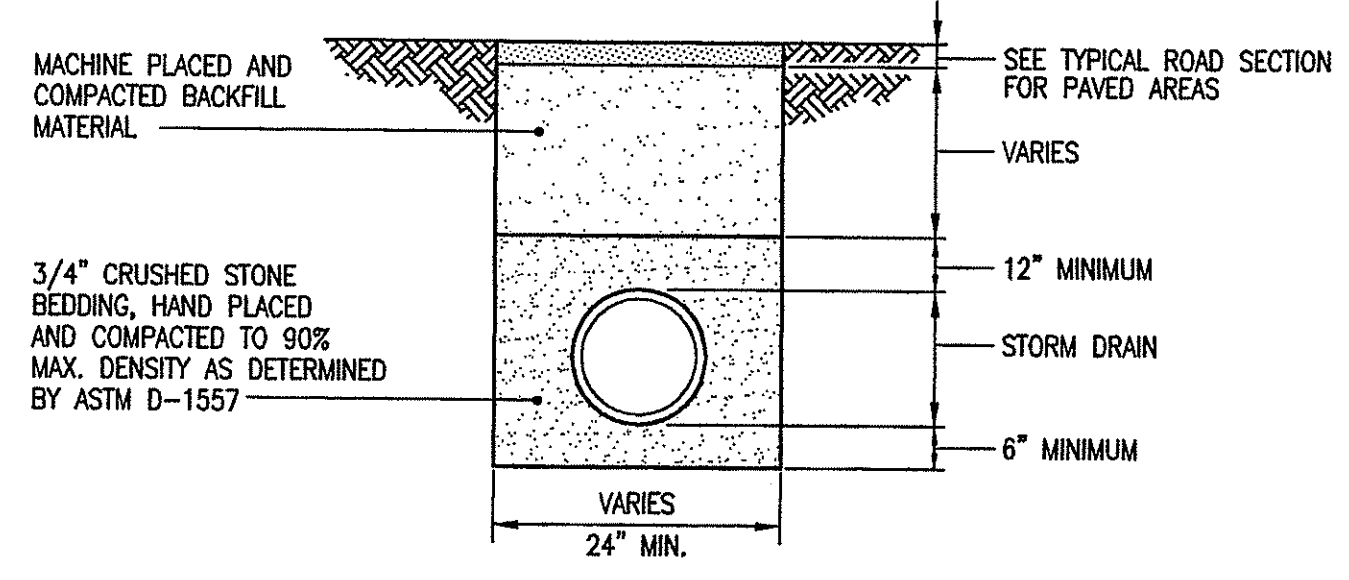
SILT FENCE DETAIL
NOT TO SCALE

- INSTALLATION SEQUENCING:**
- DIG TRENCH 6" DEEP.
 - SET FENCE POST 10' APART MAX. AT SLIGHT ANGLE TOWARD RUNOFF DIRECTION.
 - ATTACH GEOFAB TO POST.
 - LOWER 6" OF GEOFAB IN TRENCH CURLED TOWARD RUNOFF DIRECTION & BACKFILL.
 - FENCE TO BE INSTALLED AS INDICATED ON THE SITE PLAN OR AS DIRECTED BY THE ENGINEER.

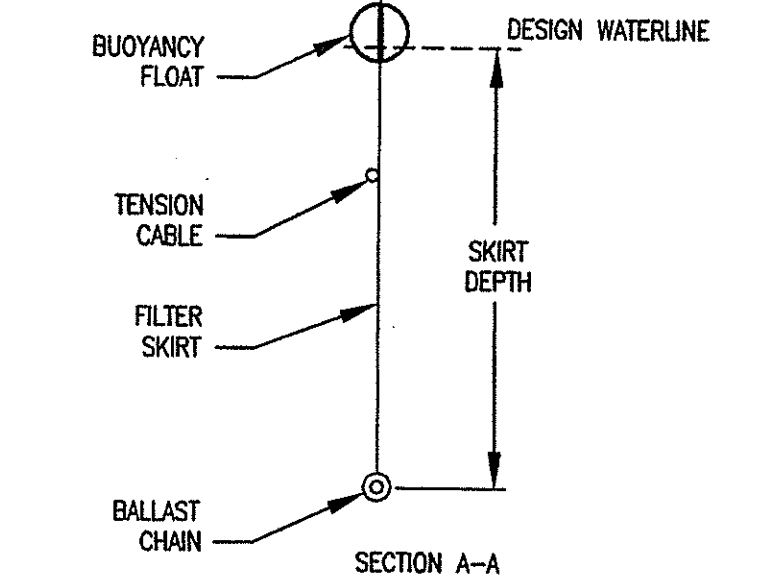
NOTE: SILT FENCE IS AN ACCEPTABLE ALTERNATE TO THE PLACEMENT OF STAKED HAYBALES AS SHOWN ON THE SITE PLANS.



RIP-RAP AT SLOPE DETAIL
NOT TO SCALE



TYPICAL PIPE BEDDING DETAIL STORM DRAIN
NOT TO SCALE



MEDIUM DUTY FLOATING PERMEABLE TURBIDITY AND SILT BARRIER DETAIL
NOT TO SCALE

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

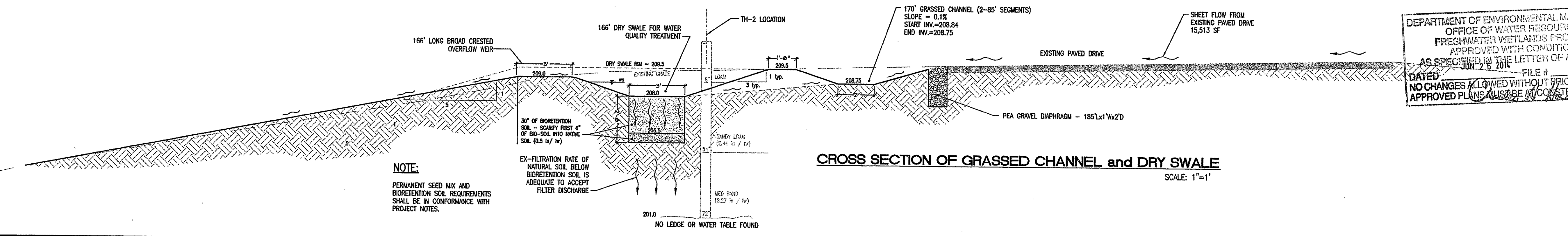
DEWATERING BASIN

REVISIONS:

NO.	BY	DATE

APPROVED: *James G. ...* JUN 15, 1998

R.I. STANDARD 9.7.0



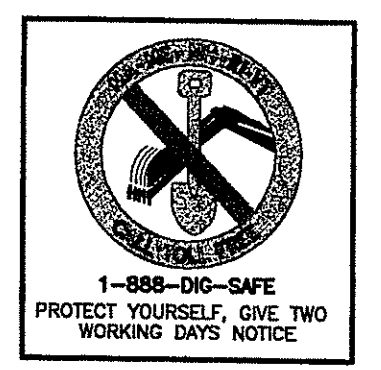
CROSS SECTION OF GRASSED CHANNEL and DRY SWALE
SCALE: 1"=1'

NOTE: PERMANENT SEED MIX AND BIORETENTION SOIL REQUIREMENTS SHALL BE IN CONFORMANCE WITH PROJECT NOTES.

No: _____ Revision: _____ Date: _____

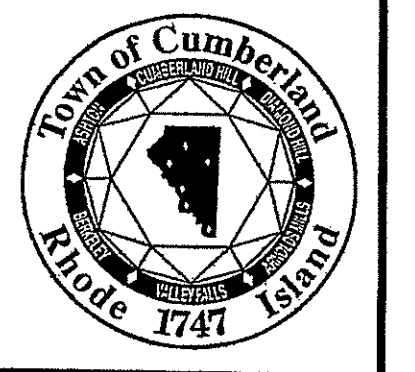
No.	Revision	Date
1	Filter sock and dewatering basin	7-19-13
2	Cross section of grass channel & dry swale	12-04-13

REFERENCES:



DIAMOND HILL PARK RENOVATION TO THE MUSIC VENUE

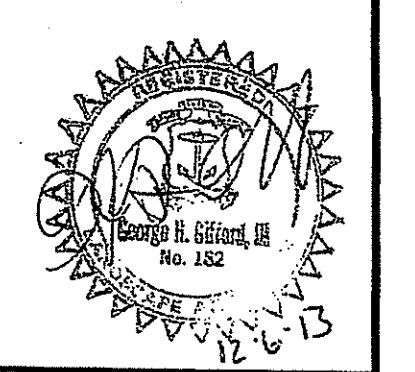
A.P. 59, LOT 15
4097 DIAMOND HILL ROAD
CUMBERLAND, RI



OWNER:
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DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT
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JEFFREY C. HANSON
No. 5238
PROFESSIONAL ENGINEER
12/26/13



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200 CENTREVILLE ROAD, BURLINGHAM, RHODE ISLAND 02809
R.I. STANDARD 9.7.0

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED JUN 28 2014 FILE # 13-0108 APPROVAL ACTION SITE

Environmental Management
MAR 20 2014
Office of Water Resources

SITE DETAILS

PROJECT NO. 16750 DRAWING 6 OF 11
DATE: JUNE 2013 DRAWING NO: 6
SCALE: AS SHOWN
DRAWN BY: WS
CHECKED BY: GHG

16750 Diamond Hill Park - Renovation to the Music Venue (Sheet 7 - Site Notes) dwg

GENERAL NOTES:

- 1. THE STATE OF RHODE ISLAND DEPARTMENT OF TRANSPORTATION CONSTRUCTION STANDARD DETAILS...
2. ALL REQUIRED SITE IMPROVEMENTS SHALL BE INSPECTED BY THE TOWN ENGINEER TO ENSURE SATISFACTORY COMPLETION...
3. LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION...

CONSTRUCTION MAINTENANCE:

- 1. ALL CATCH BASINS AND STORM DRAIN PIPES SHALL BE CLEANED OF SEDIMENT...
2. INSPECTION OF THE BASINS AND ALL INLET AND OUTLET STRUCTURES SHALL BE PERFORMED ON A WEEKLY BASIS...
3. GRASSES MUST BE PLANTED AROUND AND WITHIN THE STORMWATER BASIN IMMEDIATELY FOLLOWING CONSTRUCTION TO STABILIZE THE SLOPES AND PREVENT EROSION...

EROSION CONTROL and SOIL STABILIZATION PROGRAM:

- 1. DENUDE SLOPES SHALL NOT BE LEFT EXPOSED FOR MORE THAN 14 DAYS WITHOUT VEGETATIVE PRACTICES BEING INITIATED...
2. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15, SHALL BE SEEDED OR PROTECTED BY THAT DATE...
3. TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS...

Table with columns: TYPE, % BY WEIGHT, APPLICATION RATE. Rows include Creeping Red Fescue, Astoria Bentgrass, Birdsfoot Trefoil, Perennial Ryegrass.

- 9. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE (1) YEAR...
10. THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1ST THROUGH OCTOBER 15TH...
11. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN FOURTEEN (14) DAYS OF FINAL GRADING...

Table with columns: TYPE, % BY WEIGHT, APPLICATION RATE. Rows include Creeping Red Fescue, Kentucky Bluegrass, Tall Fescue.

SEDIMENTATION CONTROL PROGRAM:

- 1. EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY SEDIMENTS FROM ENTERING THE STATE HIGHWAY OR ADJOINING PROPERTIES...
2. BANKS OR SLOPES OVER 5% SHALL BE SEEDED AS SOON AS POSSIBLE AND SHALL BE PROTECTED WITH A HAY, STRAW OR FIBER MULCH...
3. DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE DURING STORMS AND PERIODS OF RAINFALL...

POLLUTION PREVENTION PLAN:

GENERAL: LONG-TERM MANAGEMENT OF THE POLLUTION PREVENTION PLAN SHALL BE THE RESPONSIBILITY OF THE OWNER. OWNER: TOWN OF CUMBERLAND RECREATION DEPARTMENT. THE CONTRACTOR SHALL MANAGE THE POLLUTION PREVENTION PLAN DURING THE CONSTRUCTION PROCESS.

- SOLID WASTE CONTAINMENT: 1. TRASH RACKS WHERE PRACTICAL SHALL BE INSTALLED AND MAINTAINED ON ALL INLET STRUCTURES WITHIN THE DRAINAGE SYSTEM...
HAZARDOUS MATERIALS CONTAINMENT: 1. NO HAZARDOUS MATERIALS SHALL BE STORED OUTSIDE TO AVOID EXPOSURE TO STORMWATER.

- SNOW DISPOSAL AND DEICING: 1. SAND AND DEICING MATERIALS SHALL BE STORED UNDER COVER ON OR OFF SITE TO PREVENT EXPOSURE TO STORMWATER...
DRIVEWAY AND PARKING LOT SEALANTS: 1. ONLY ASPHALT BASED SEALANTS ARE ALLOWED, NO COAL-TAR BASED SEALANTS SHALL BE USED ON THIS SITE.

- LANDSCAPE MANAGEMENT: 1. GRASS CLIPPINGS FROM LAWN CARE PROCEDURES MAY NOT BE STOCKPILED ON SITE, THEY MUST BE EITHER SCATTERED WHILE MOWING OR COLLECTED AND DISPOSED OF OFF SITE...
BMP CONSTRUCTION SEQUENCES: 1. GREAT CARE SHALL BE GIVEN TO THE AREAS WHERE STRUCTURES WHICH REQUIRE INFILTRATION AS A MECHANISM FOR STORMWATER TREATMENT AND/OR DISPOSAL ARE PROPOSED...

- 2. GENERAL LAWN HEIGHTS (EXCLUDING STORMWATER BASINS) ON SITE SHALL BE KEPT AT A 2-3" HEIGHT...
3. FERTILIZER AND WATERING DEMANDS SHOULD BE HAVE PROFESSIONAL OVERSIGHT AND BOTH USES MINIMIZED TO THE MAXIMUM EXTENT PRACTICAL.

BMP CONSTRUCTION SEQUENCES:

GENERAL: GREAT CARE SHALL BE GIVEN TO THE AREAS WHERE STRUCTURES WHICH REQUIRE INFILTRATION AS A MECHANISM FOR STORMWATER TREATMENT AND/OR DISPOSAL ARE PROPOSED PRIOR TO THEIR CONSTRUCTION.

Table with columns: TYPE, % BY WEIGHT, APPLICATION RATE. Rows include Creeping Red Fescue, Kentucky Bluegrass, Tall Fescue.

BIORETENTION SOIL MIXTURE SHALL CONSIST OF A USDA LOAMY SAND OR SANDY LOAM CLASSIFICATION AND MEET THE FOLLOWING GRADUATION: SAND - 63 to 67%, SILT - 8 to 12%, CLAY - 0 to 2%, ORGANIC (LEAF COMPOST) - 23 to 25%.

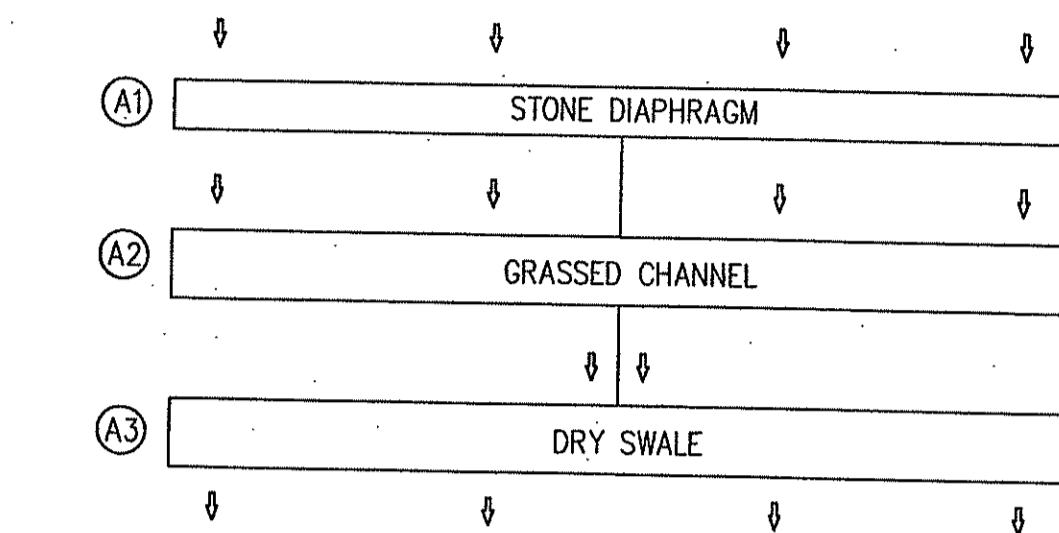
- A1: PEA GRAVEL DIAPHRAGM: 1. EXCAVATE TO THE LINES AND GRADES OF THE DESIGN. 2. PEA GRAVEL.

- A2: GRASSED CHANNEL: 1. EXCAVATE TO THE LINES AND GRADES OF THE DESIGN. 2. LOAM AND SEED ACCORDINGLY WITH PERMANENT SEED MIXTURE.

- A3: DRY SWALE: 1. EXCAVATE TO THE LINES AND GRADES OF THE DESIGN. 2. INSTALL 6" OF BIO-RETENTION SAND AND ROTO-TILL TO MIX INTO THE SUBSOIL INTERFACE.

STORMWATER MANAGEMENT SYSTEM LONG TERM O/M

GENERAL: LONG-TERM MAINTENANCE OF THE DRAINAGE SYSTEM SHALL BE COMPLETED BY THE OWNER UNDER A LEGALLY BINDING AND ENFORCEABLE MAINTENANCE AGREEMENT... OWNER: TOWN OF CUMBERLAND RECREATION DEPARTMENT.



A-SYSTEM WATER QUALITY TREATMENT SYSTEM:

- A1: STONE DIAPHRAGM (PRE-TREATMENT)
A2: GRASSED CHANNEL (PRE-TREATMENT)
A3: DRY SWALE (WATER QUALITY TREATMENT)

SYSTEM DIAGRAM

- A1: PEA GRAVEL DIAPHRAGM: 1) 1'x2'x18" PEA GRAVEL DIAPHRAGM SEDIMENT TRAP...
2) INSPECTIONS SHALL OCCUR ANNUALLY OR MORE FREQUENTLY AS NEEDED...
3) CLEANOUT OF TRASH AND DEBRIS FOUND SHALL OCCUR AS NEEDED...

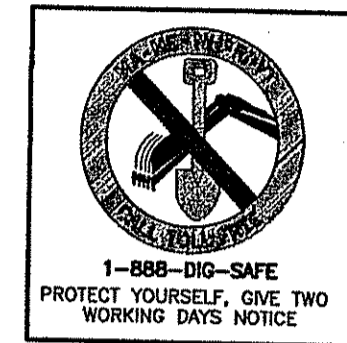
- A2: GRASSED CHANNEL: 1) 170' LONG TRAPEZOIDAL GRASSED CHANNEL PRETREATMENT STRUCTURE WITH A 2" WIDE BOTTOM, 3:1 SIDE SLOPES AND A SLIGHT LONGITUDINAL SLOPE (0.1%) TO ENSURE A MINIMUM 10 MINUTE RETENTION TIME...
2) INSPECTIONS SHALL OCCUR ANNUALLY OR MORE FREQUENTLY AS NEEDED...
3) CLEANOUT OF TRASH AND DEBRIS SHALL OCCUR AS NEEDED...

A3: DRY SWALE: 1) GREAT CARE SHALL BE GIVEN TO THE AREA WHERE A STRUCTURE FOR STORMWATER TREATMENT AND/OR DISPOSAL ARE PROPOSED... 2) THE INFILTRATION PRACTICES OF THE DRY SWALE SHALL BE INSPECTED ANNUALLY AND AFTER EACH RAIN EVENT...

- 3) THE SWALE SHALL BE MOWED TWO (2) TIMES PER YEAR TO MAINTAIN A GRASS HEIGHT OF 4-6 INCHES BUT MOWING SHALL OCCUR IMMEDIATELY UPON GRASS HEIGHTS EXCEED 10 INCHES.
4) SEDIMENT BUILD UP WITHIN THE BOTTOM OF THE SWALE SHALL BE REMOVED ONCE IT REACHES 25% OF THE ORIGINAL WATER QUALITY VOLUME (WQV) OR 3" IN DEPTH.
5) WHEN STANDING WATER IS OBSERVED TO REMAIN IN THE STRUCTURE MORE THAN 48 HOURS AFTER A RAIN EVENT THE BOTTOM OF THE SYSTEM SHALL BE ROTOTILLED OR CULTIVATED TO BREAK UP ANY HARD PACKED SEDIMENT AND THEN RE-SEED.

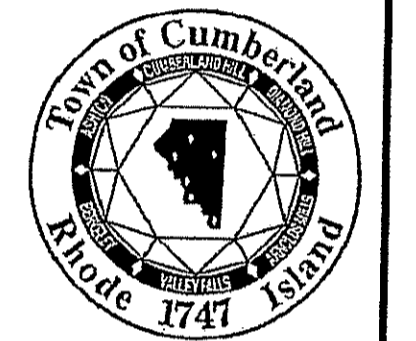
Revision table with columns: No., Revision, Additional notes, Date. Shows revision 1 on 12-04-13.

REFERENCES:



DIAMOND HILL PARK RENOVATION TO THE MUSIC VENUE

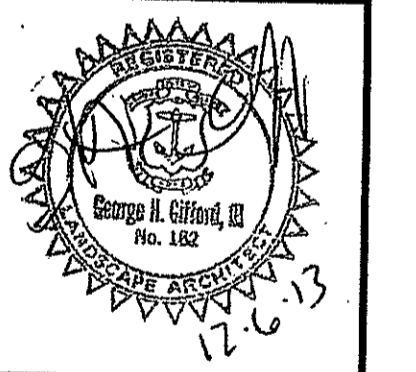
A.P. 59, LOT 15 4097 DIAMOND HILL ROAD CUMBERLAND, RI



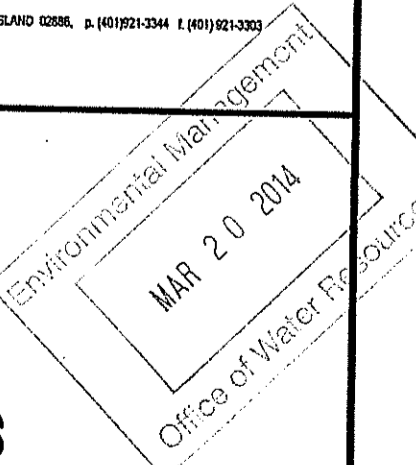
OWNER: TOWN OF CUMBERLAND DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT 45 BROAD STREET CUMBERLAND, RI 02864

THE GIFFORD DESIGN GROUP, Inc. LANDSCAPE ARCHITECTURE ENVIRONMENTAL PLANNING 4096 MENDON ROAD, CUMBERLAND, RHODE ISLAND 02864

JEFFREY C. HANSON No. 5238 OFFICE OF WATER RESOURCES FRESHWATER WETLANDS PROFESSIONAL ENGINEER APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED JUN 26 2014 FILE # 13-0105



MILLSTONE ENGINEERING, P.C. CIVIL ENGINEERING • LANDSCAPE ARCHITECTURE • LAND PLANNING 20 CENTERVILLE ROAD, BURLINGAME, MASSACHUSETTS 01923

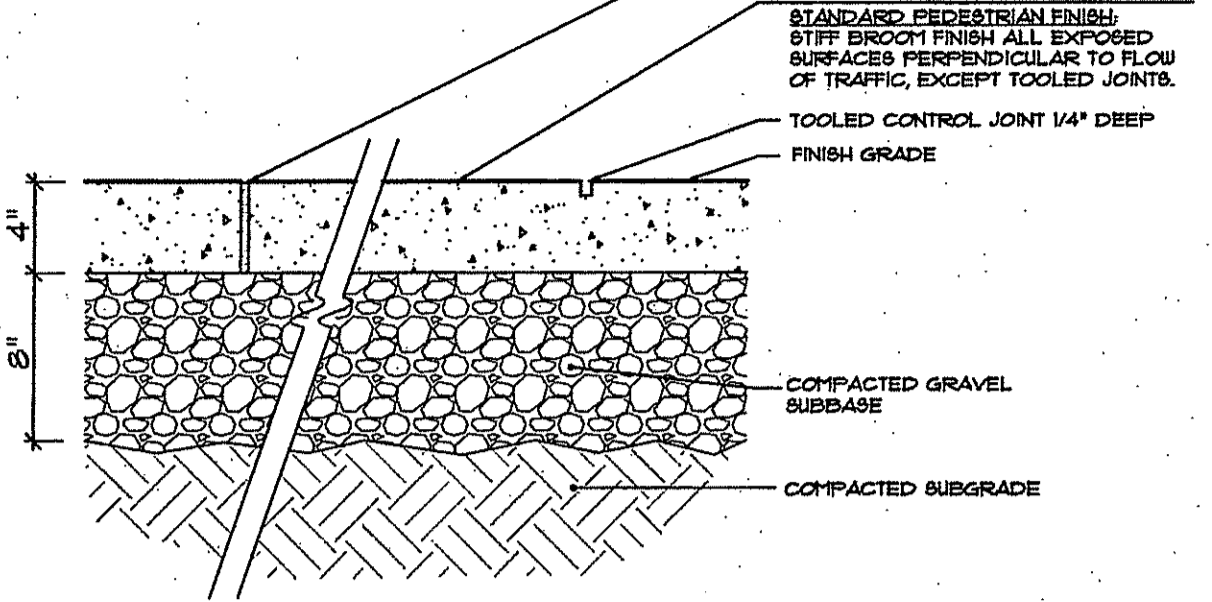


SITE NOTES

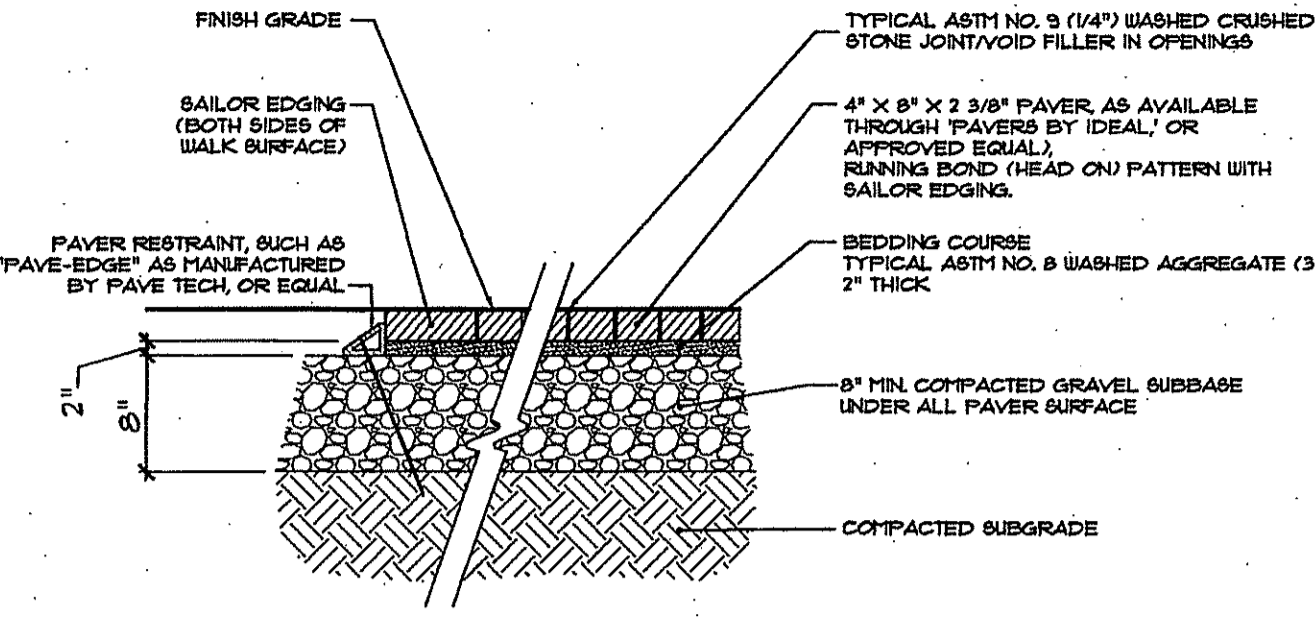
PROJECT NO. 16.750 DRAWING 6a OF 11 DATE: JUNE 2013 SCALE: AS SHOWN DRAWN BY: WS CHECKED BY: GHJ DRAWING NO: 6a

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SCORING NOTE:
 PROVIDE EXPANSION JOINTS 36" O.C. MAX. AND CONTROL JOINTS 9' O.C. MAX.

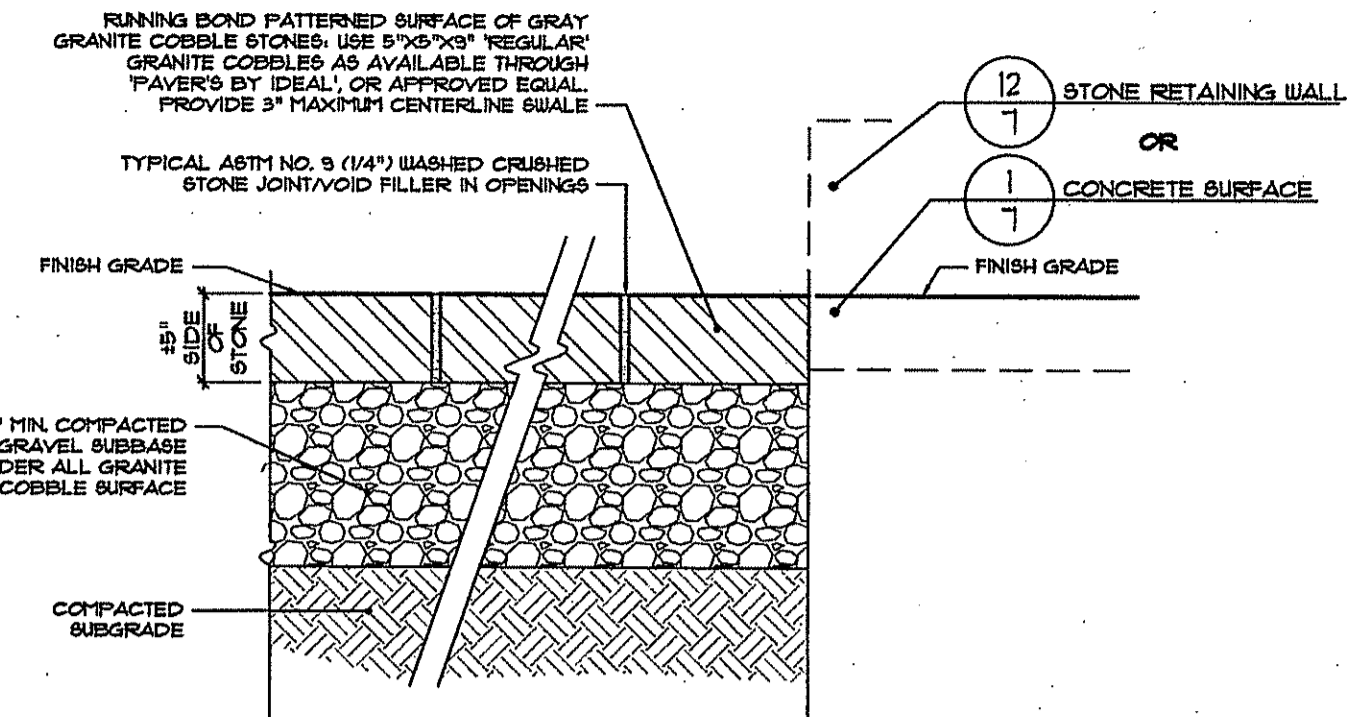


1 CONCRETE SURFACE NOT TO SCALE

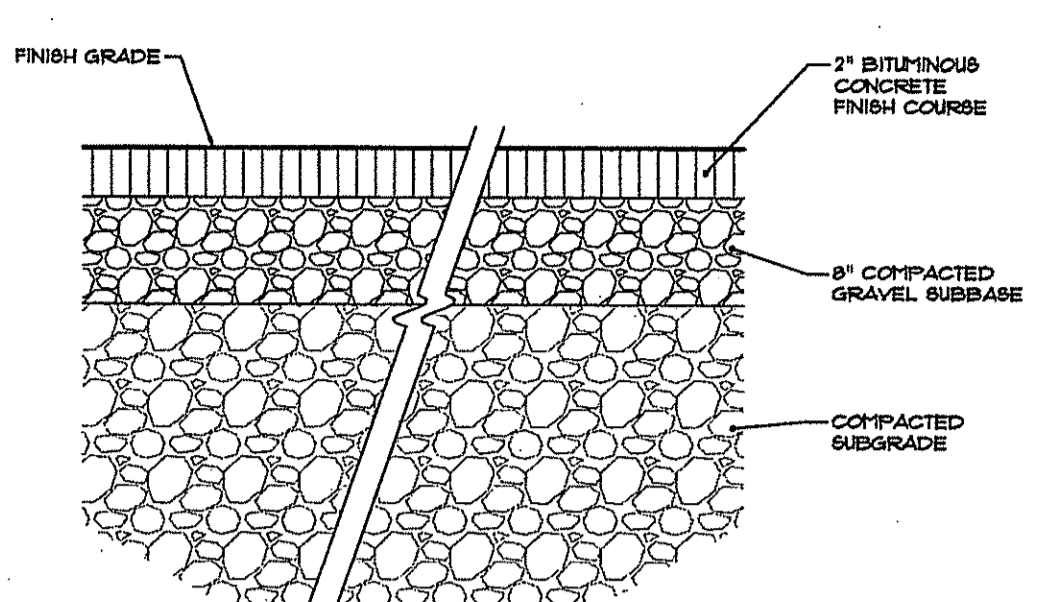


NOTES:
 1. COLOR BY OWNER. CONTRACTOR SHALL PROVIDE SAMPLES INDICATING COLOR, SIZE AND PATTERN OF PAVERS FOR REVIEW BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
 2. INSTALL AS PER MANUFACTURER'S SPECIFICATIONS.
 3. CONTRACTOR SECURE PAVES SURFACE, BEDDING COURSE AND BASE FROM ANY UNSPECIFIED COMPACTION PRIOR TO INSTALLATION OF PAVERS.

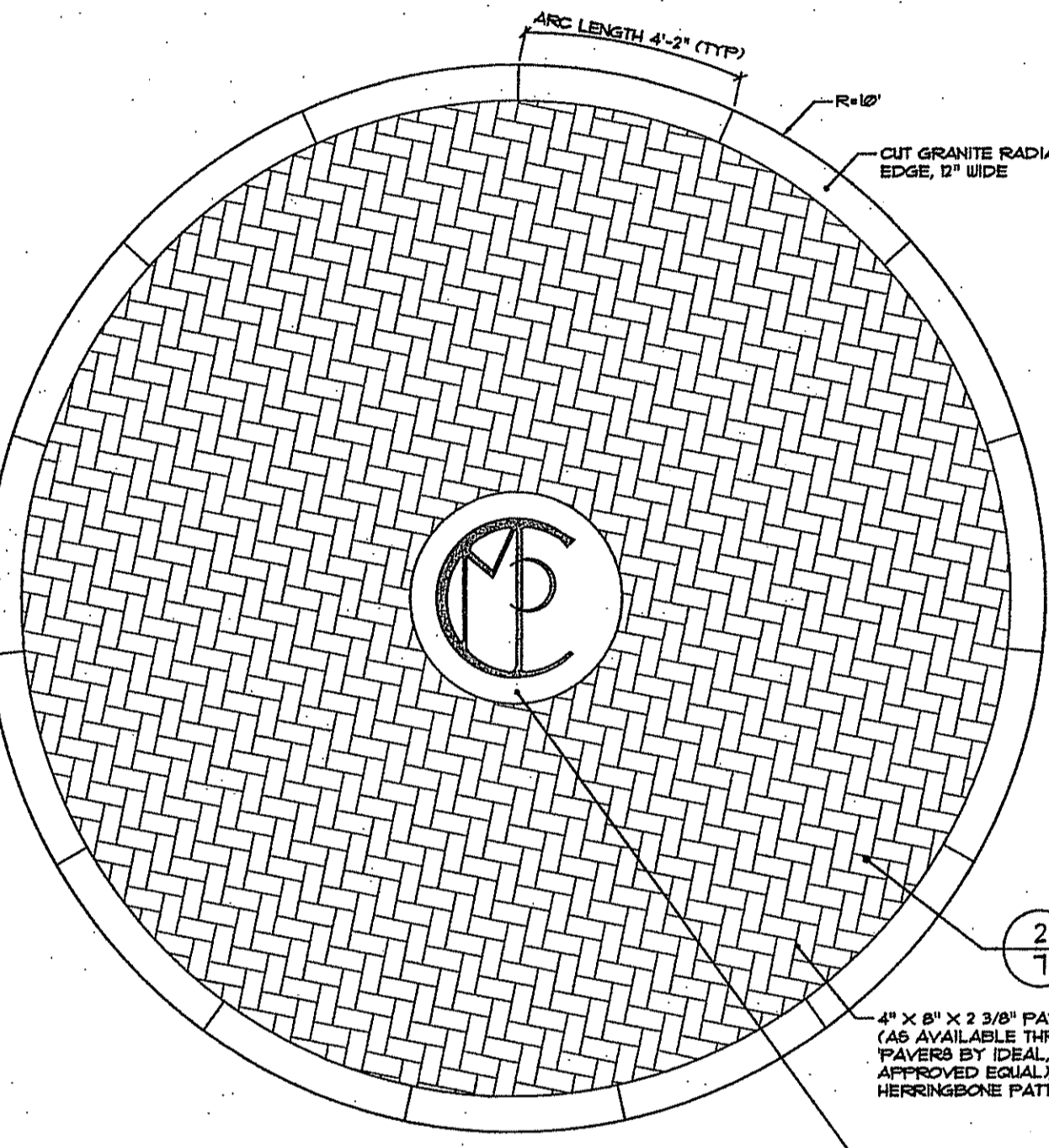
2 PAVES SURFACE AND EDGING NOT TO SCALE



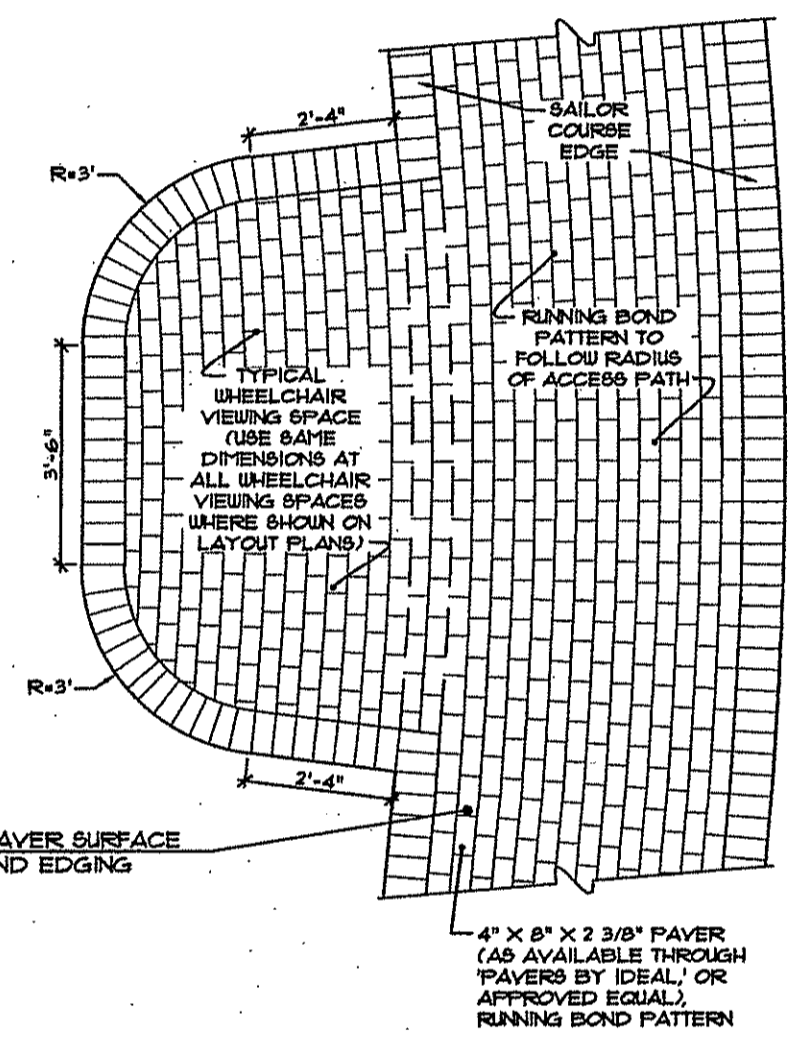
3 GRANITE COBBLE SWALE SURFACE NOT TO SCALE



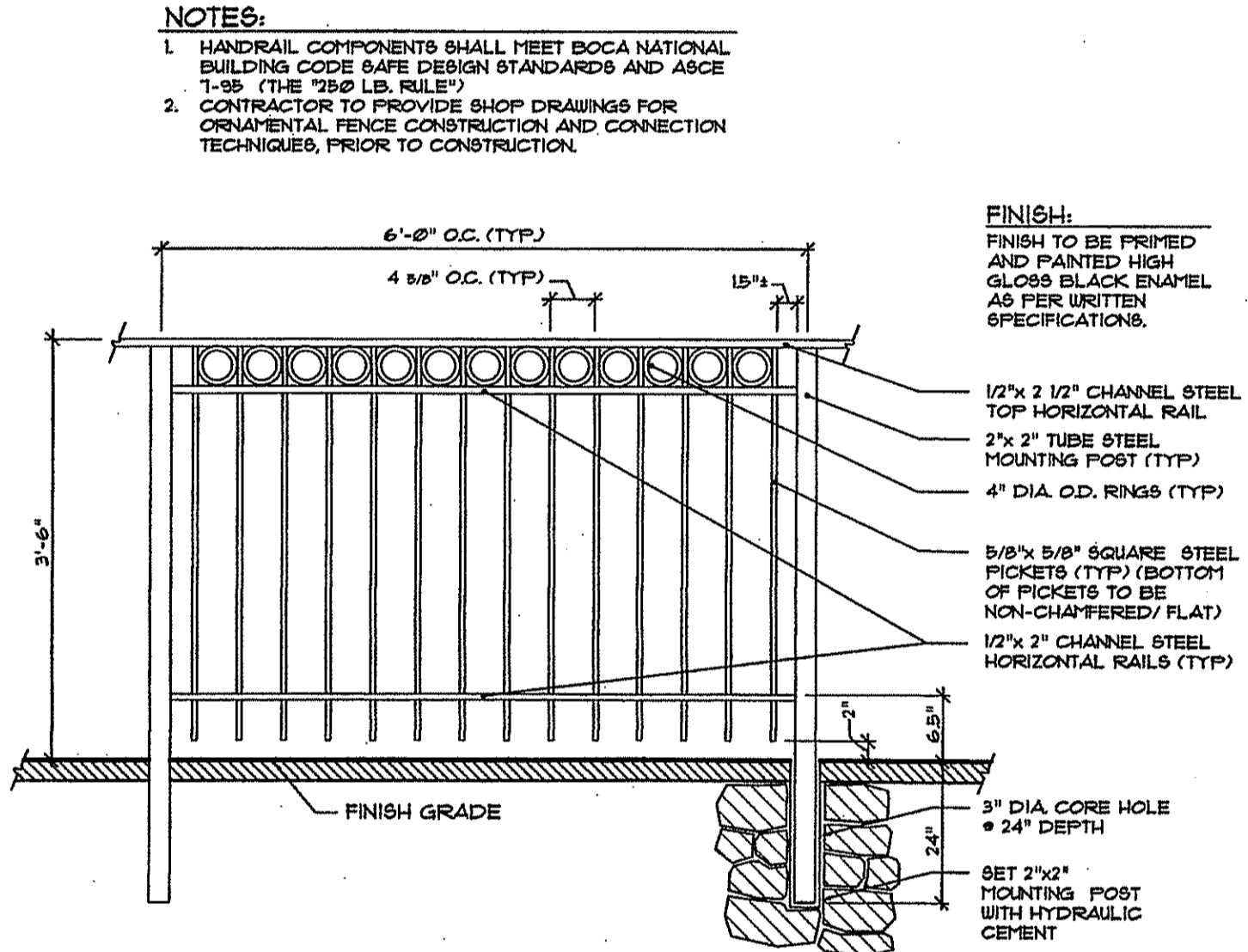
4 BITUMINOUS CONCRETE SURFACE (DEDUCT ALTERNATE) NOT TO SCALE



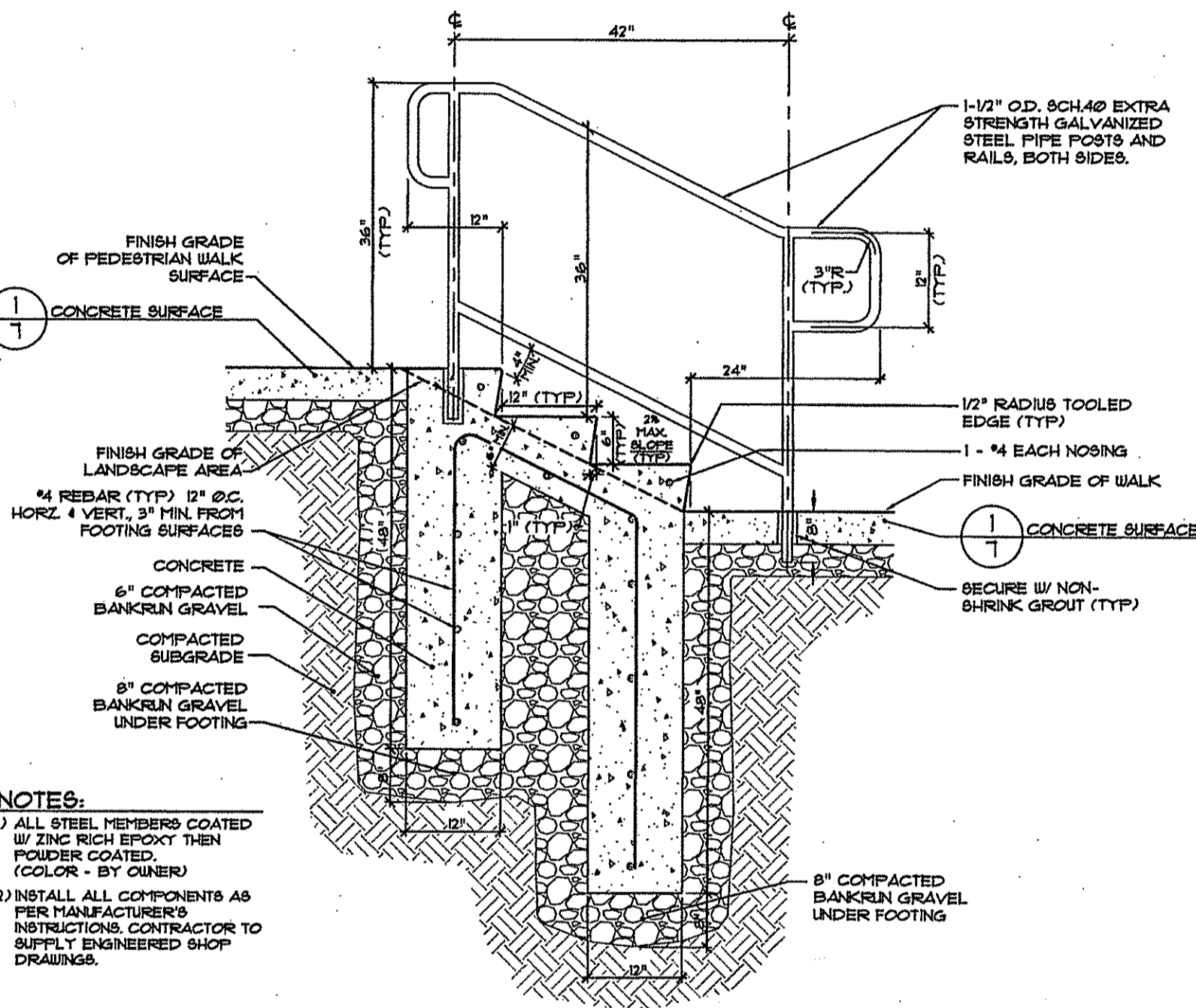
5 PAVES ACCESS PATH 'NODE' LAYOUT DETAIL (TYPICAL) NOT TO SCALE



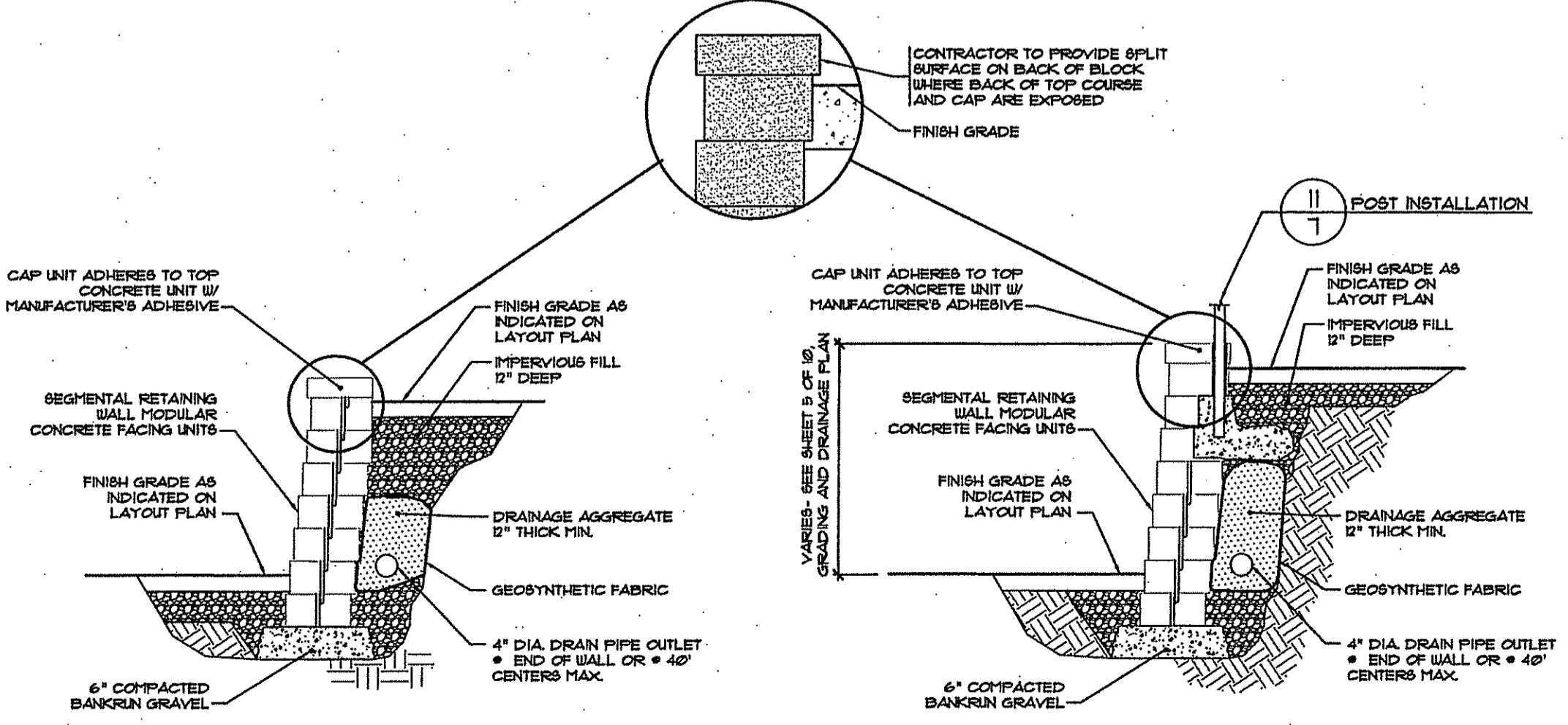
6 PAVES ACCESS PATH PATTERN & LAYOUT DETAIL (TYPICAL) NOT TO SCALE



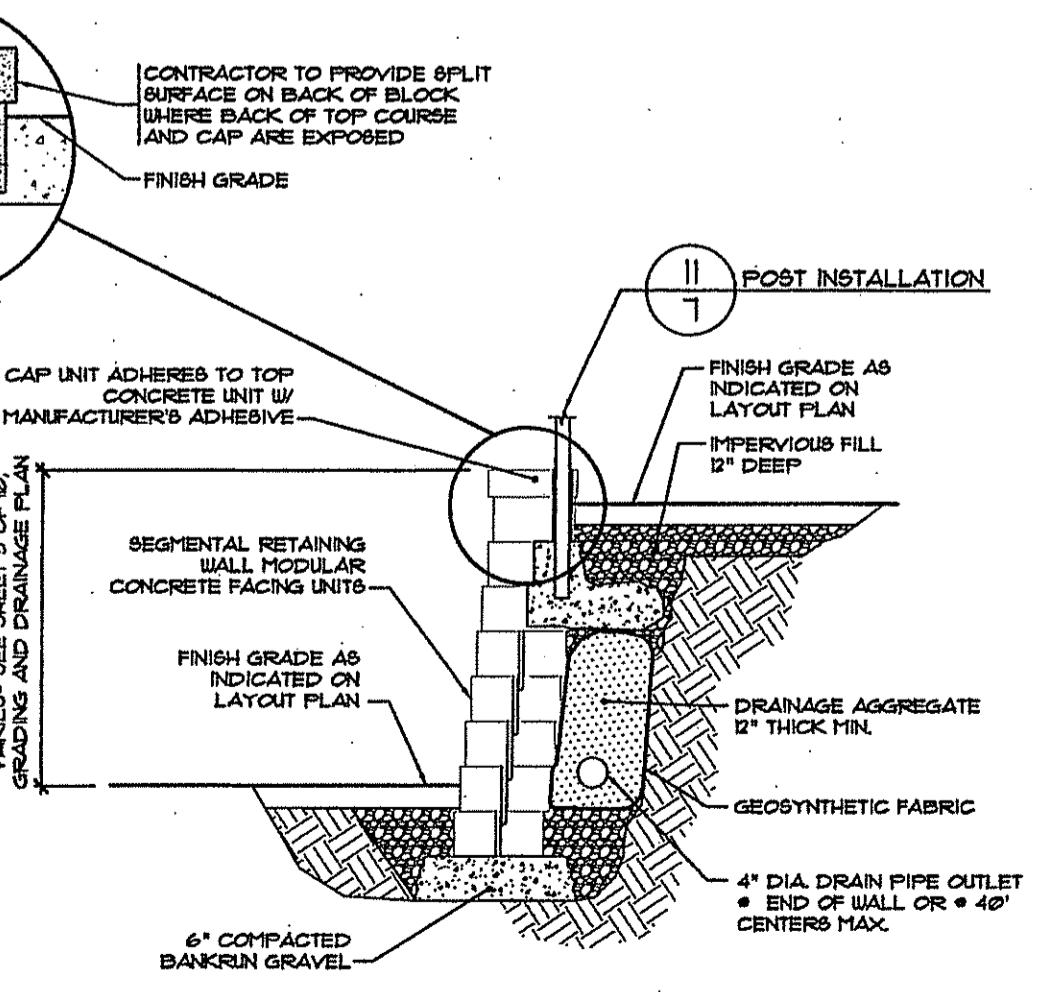
7 ORNAMENTAL FENCE DETAIL NOT TO SCALE



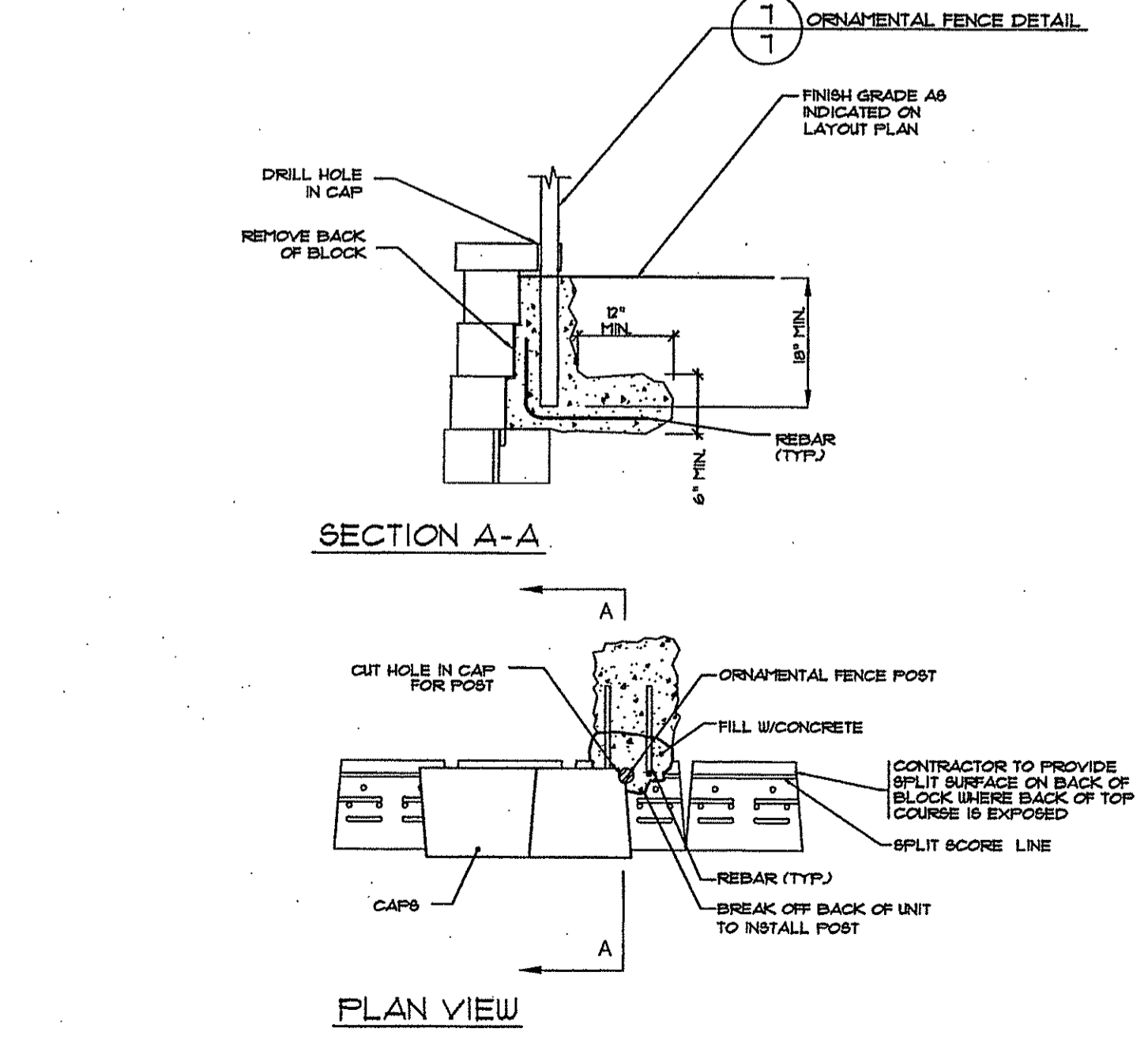
8 CONCRETE STEPS AND HANDRAIL DETAIL NOT TO SCALE



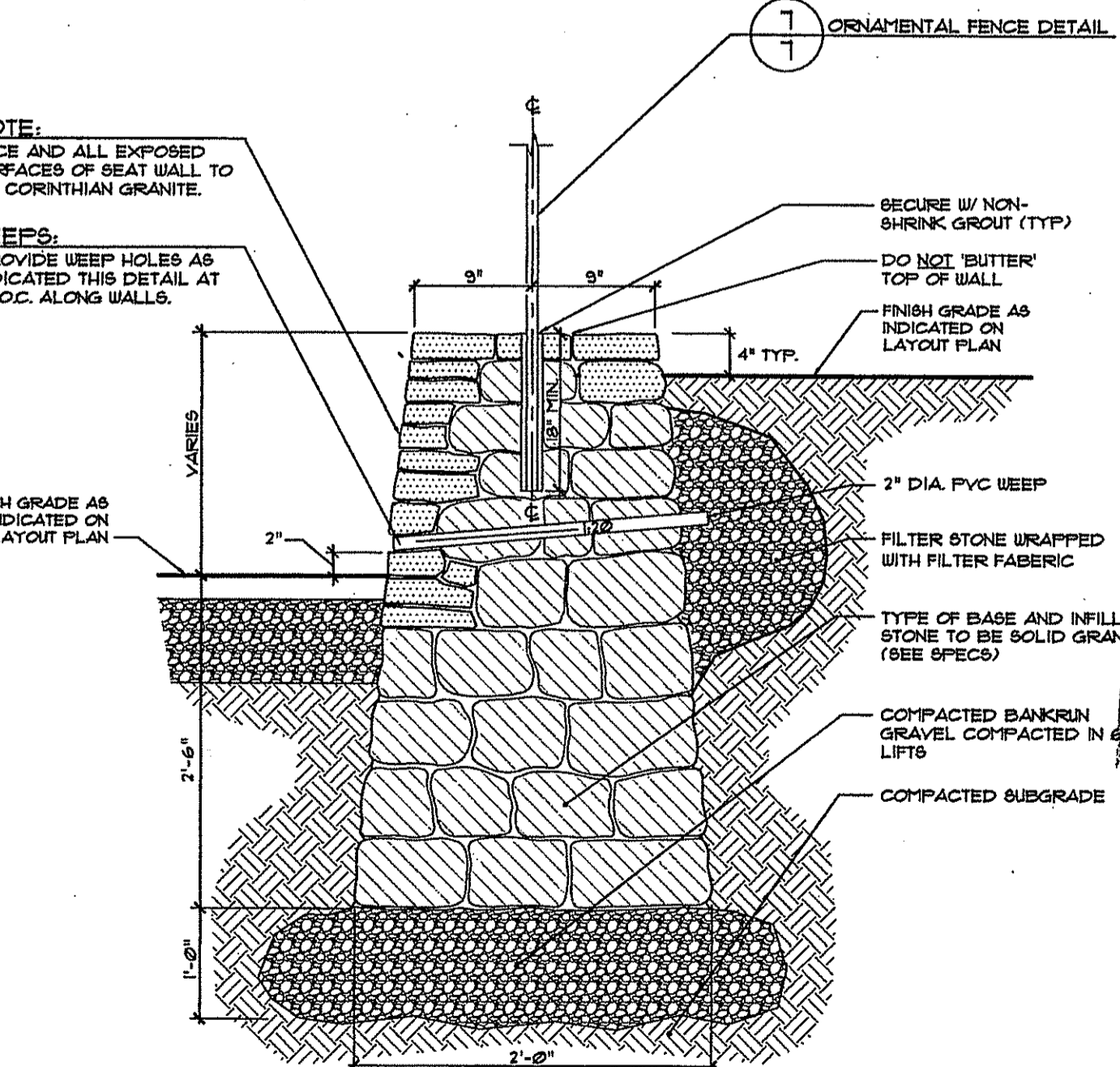
9 UNREINFORCED SEGMENTAL RETAINING WALL (TYP) ALTERNATE 1 NOT TO SCALE



10 UNREINFORCED SEGMENTAL RETAINING WALL W/ POST INSTALLATION (TYP) ALTERNATE 1 NOT TO SCALE



11 UNREINFORCED SEGMENTAL RETAINING WALL (TYP) ALTERNATE 1 NOT TO SCALE



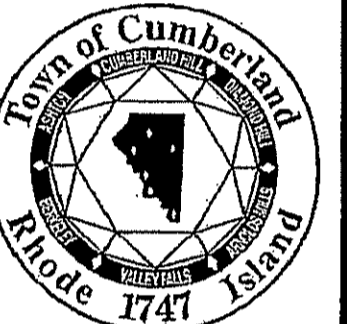
12 STONE RETAINING WALL (W/RAILING WHERE INDICATED ON LAYOUT PLAN THIS PLAN SET) NOT TO SCALE

No.	Revision:	Date:
1	Pavers	12-04-13



DIAMOND HILL PARK RENOVATION TO THE MUSIC VENUE

A.P. 59, LOT 15
 4097 DIAMOND HILL ROAD
 CUMBERLAND, RI



OWNER:
 TOWN OF CUMBERLAND
 DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT
 45 BROAD STREET
 CUMBERLAND, RI 02864

THE GIFFORD DESIGN GROUP, Inc.
 LANDSCAPE ARCHITECTURE ENVIRONMENTAL PLANNING
 4096 MENDON ROAD, CUMBERLAND, RHODE ISLAND 02864
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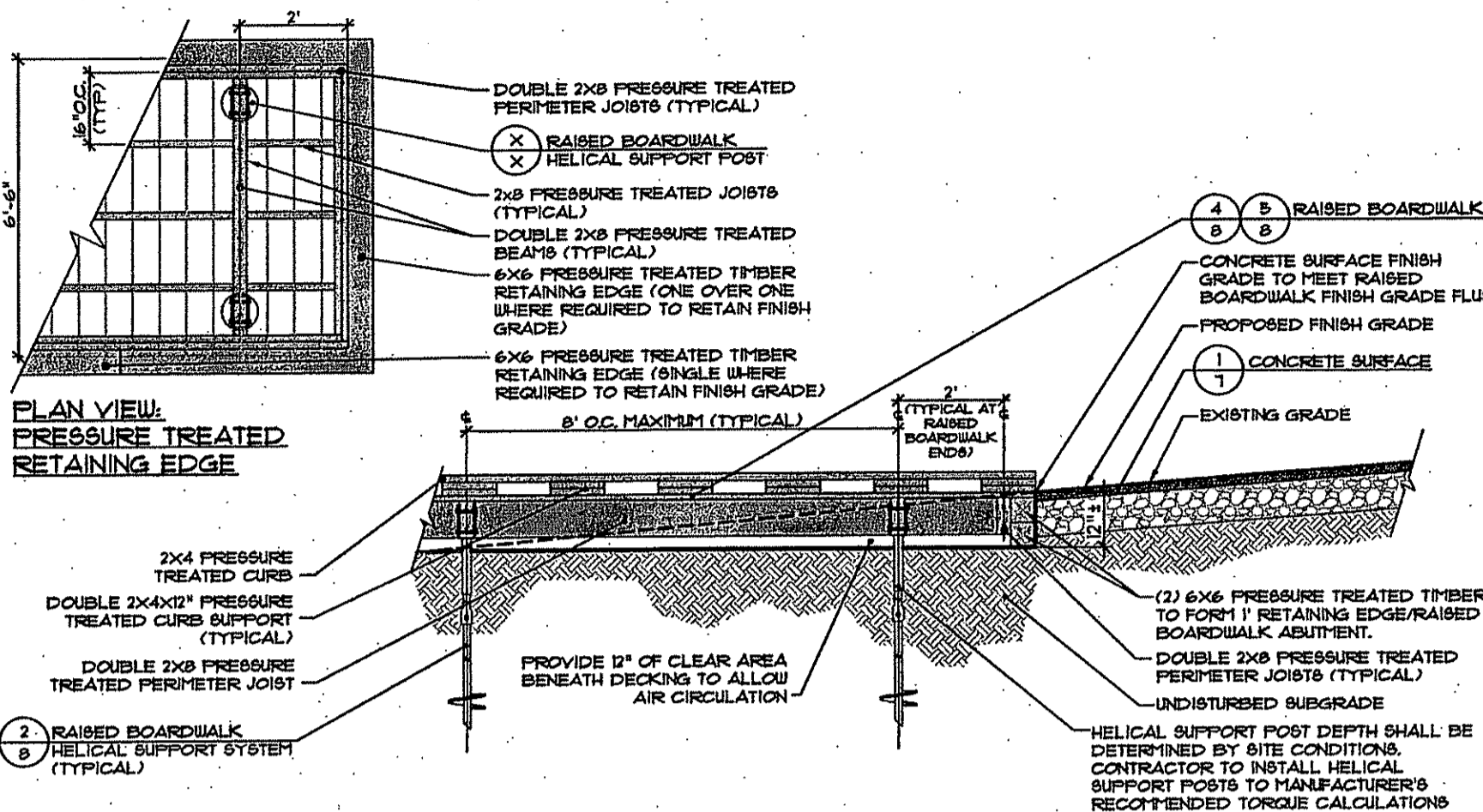
JEFFREY C. HANSON
 No. 5238
 PROFESSIONAL ENGINEER
 12/15/12



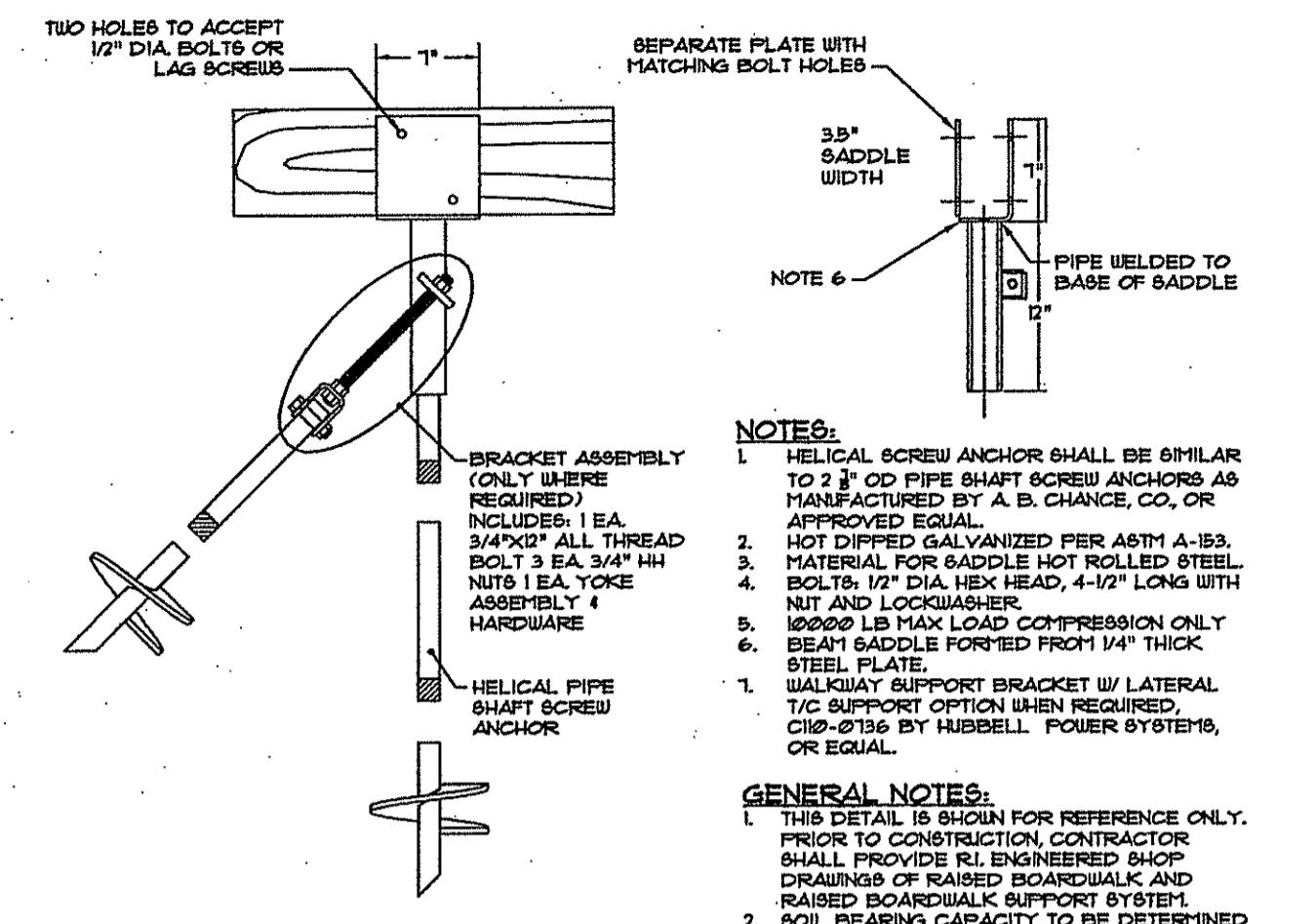
MILLSTONE ENGINEERING, P.C.
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 OFFICE OF WATER RESOURCES
 FRESHWATER WEST AND EAST DIVISIONS
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JUN 26 2013
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

SURFACE and WALL DETAILS

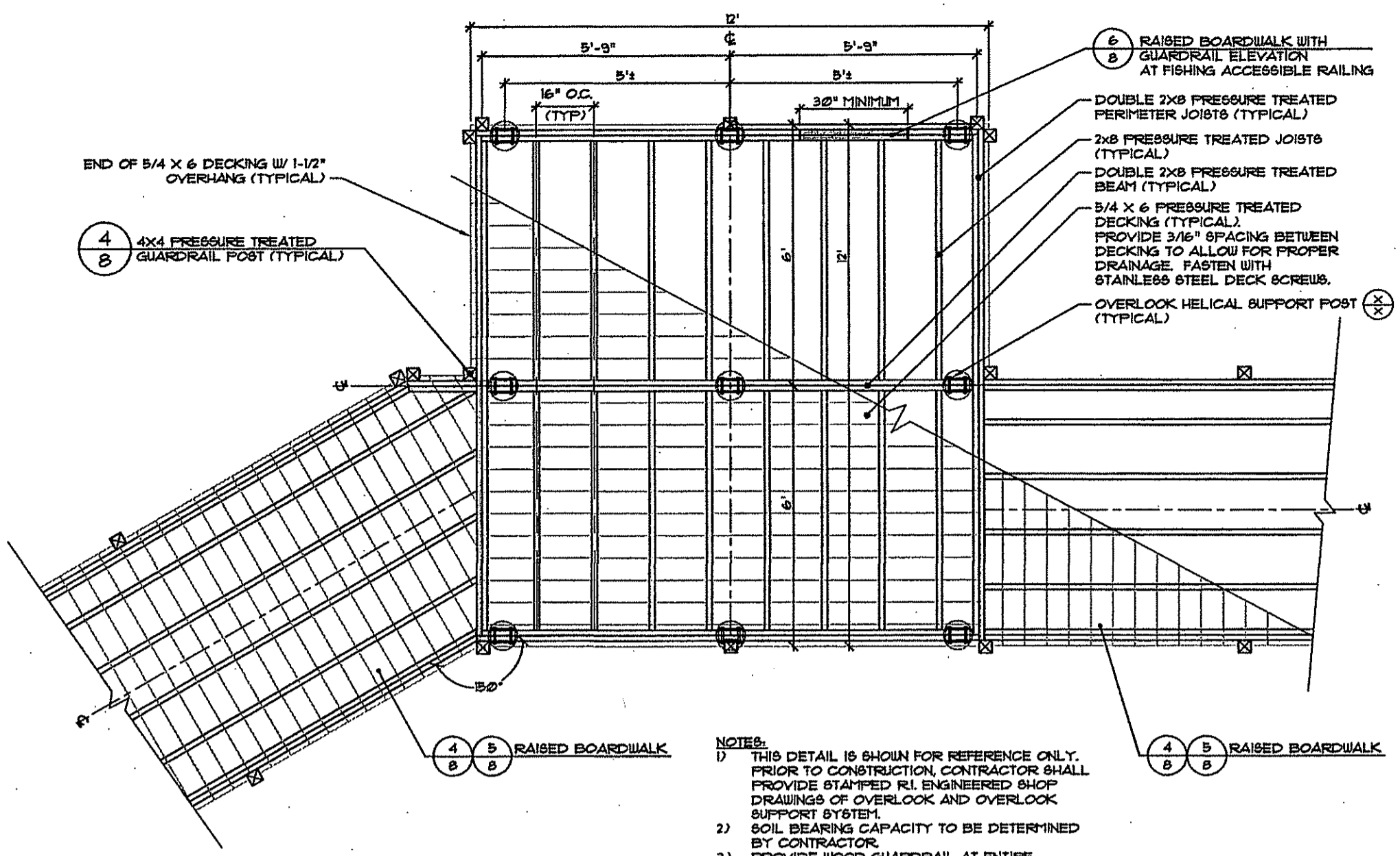
PROJECT NO. 16.750 DRAWING 7 OF 11
 DATE: JUNE 2013 DRAWING NO: 7
 SCALE: AS SHOWN
 DRAWN BY: WS
 CHECKED BY: GHG



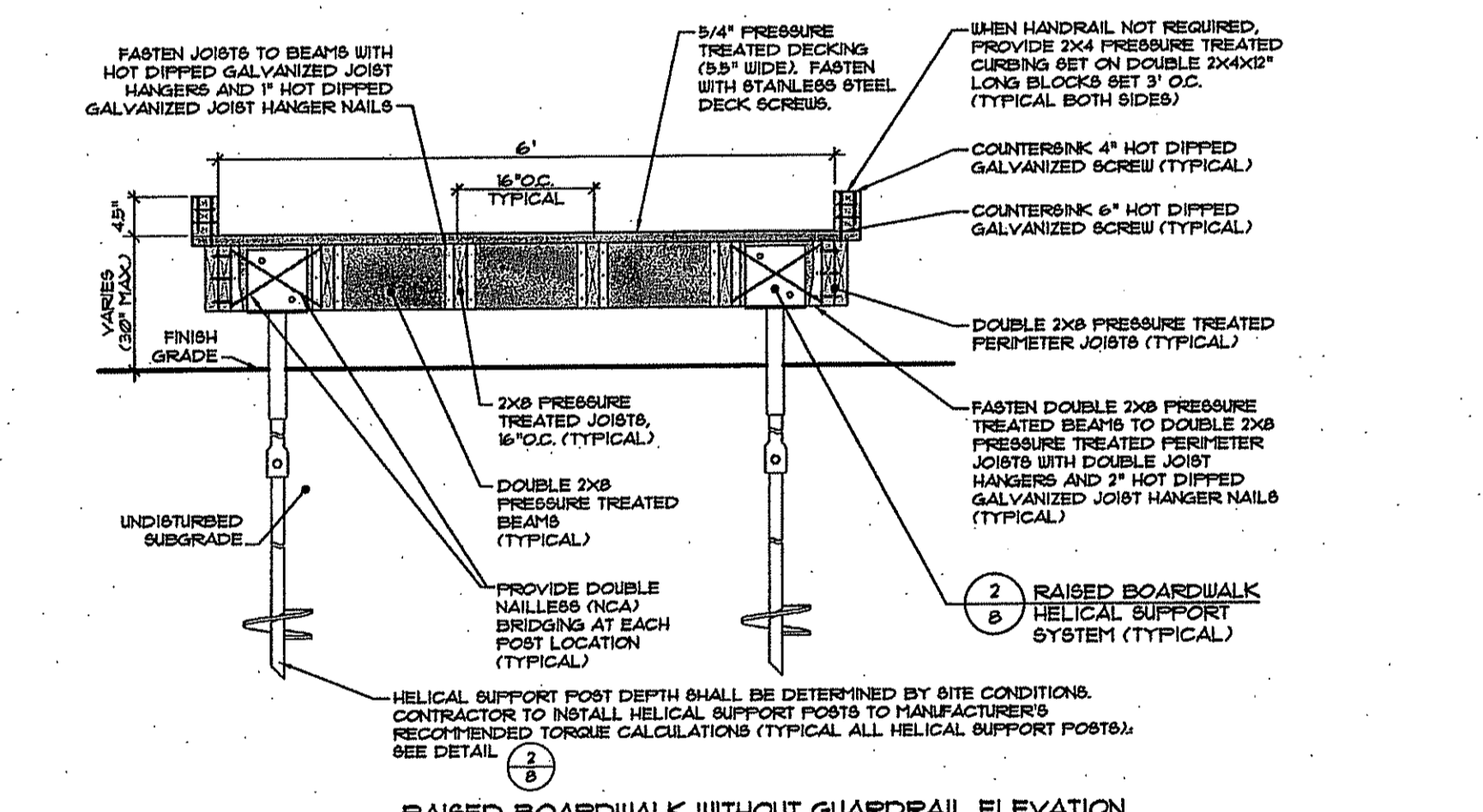
1 RAISED BOARDWALK AND AT-GRADE WALKWAY CONNECTION NOT TO SCALE



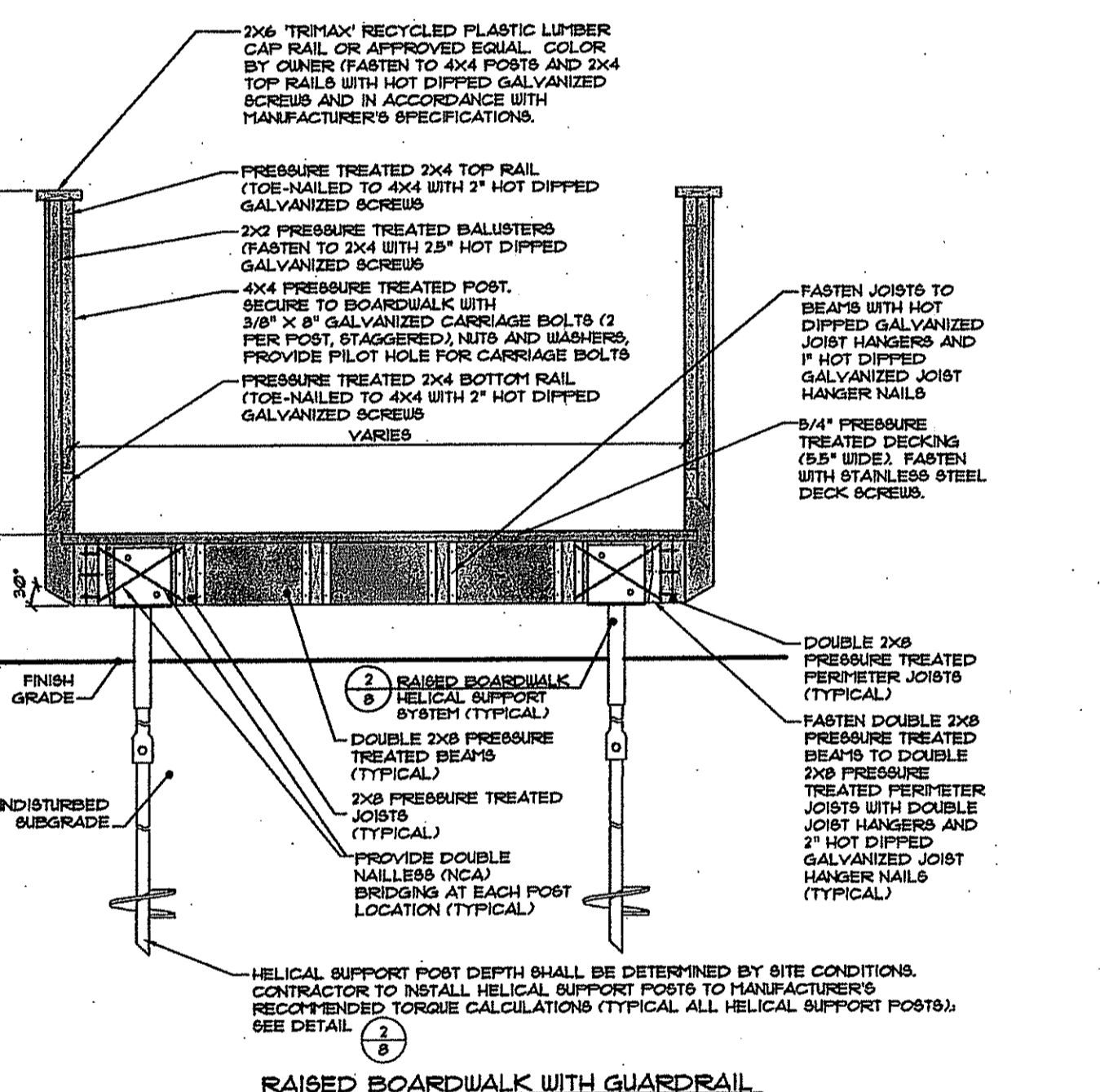
2 RAISED BOARDWALK HELICAL SUPPORT SYSTEM (WITH OPTIONAL LATERAL SUPPORT) NOT TO SCALE



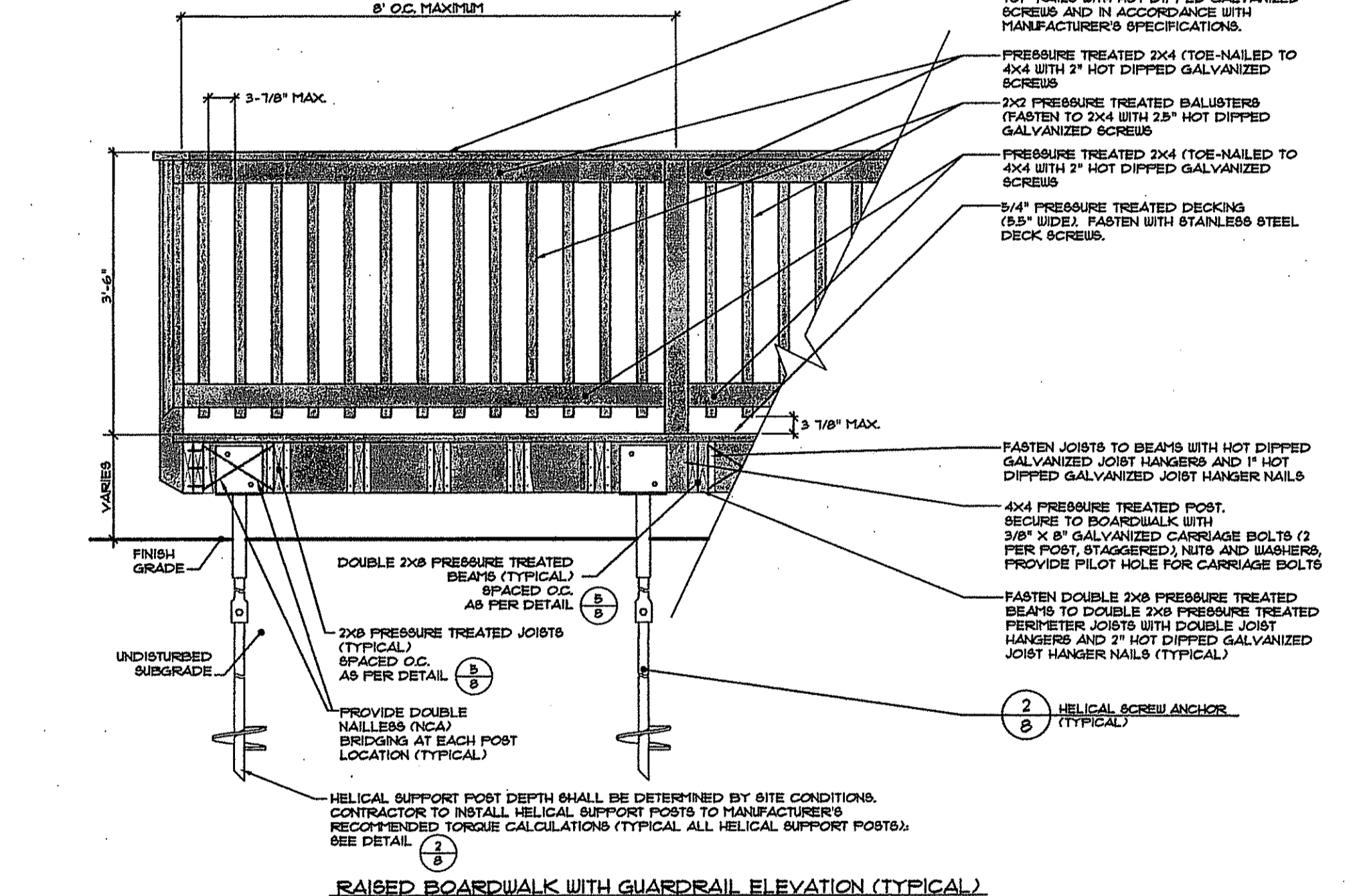
3 12' X 12' OVERLOOK FRAMING DETAIL NOT TO SCALE



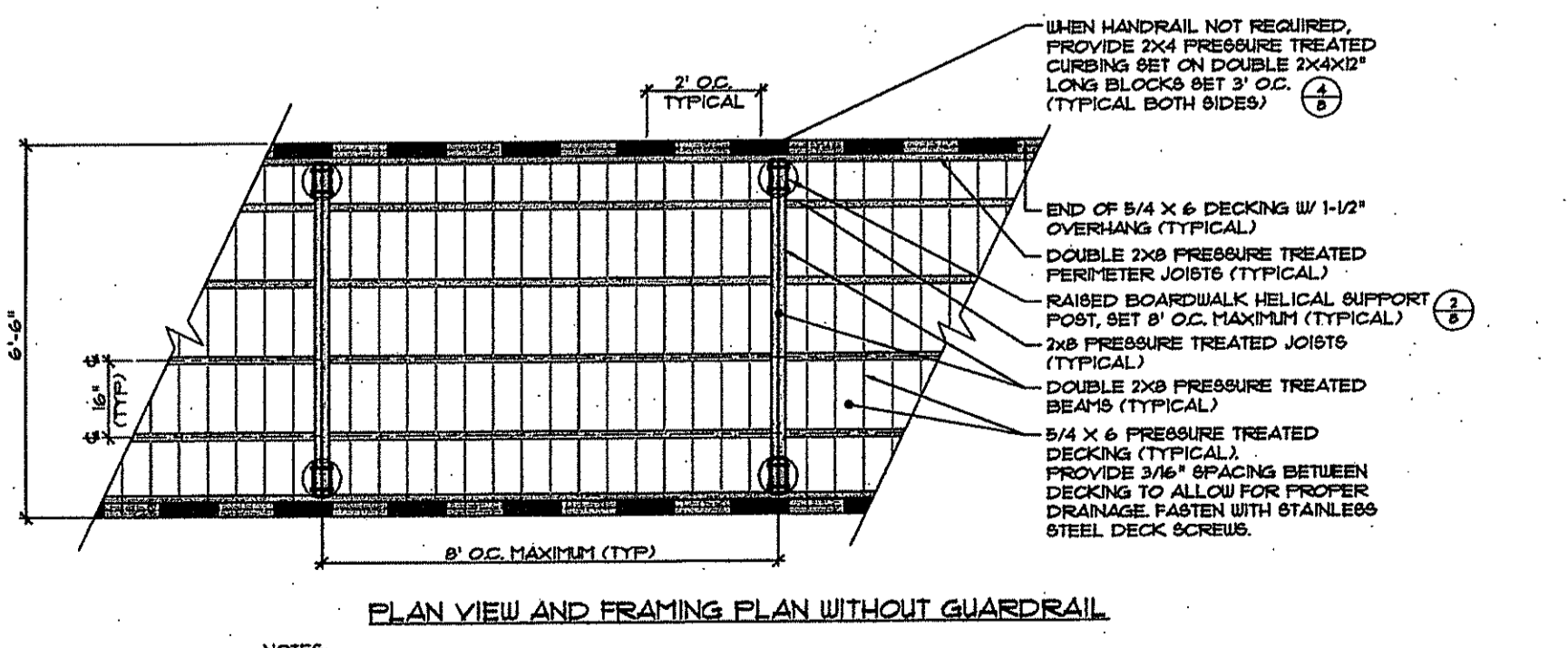
4 RAISED BOARDWALK SECTION DETAILS



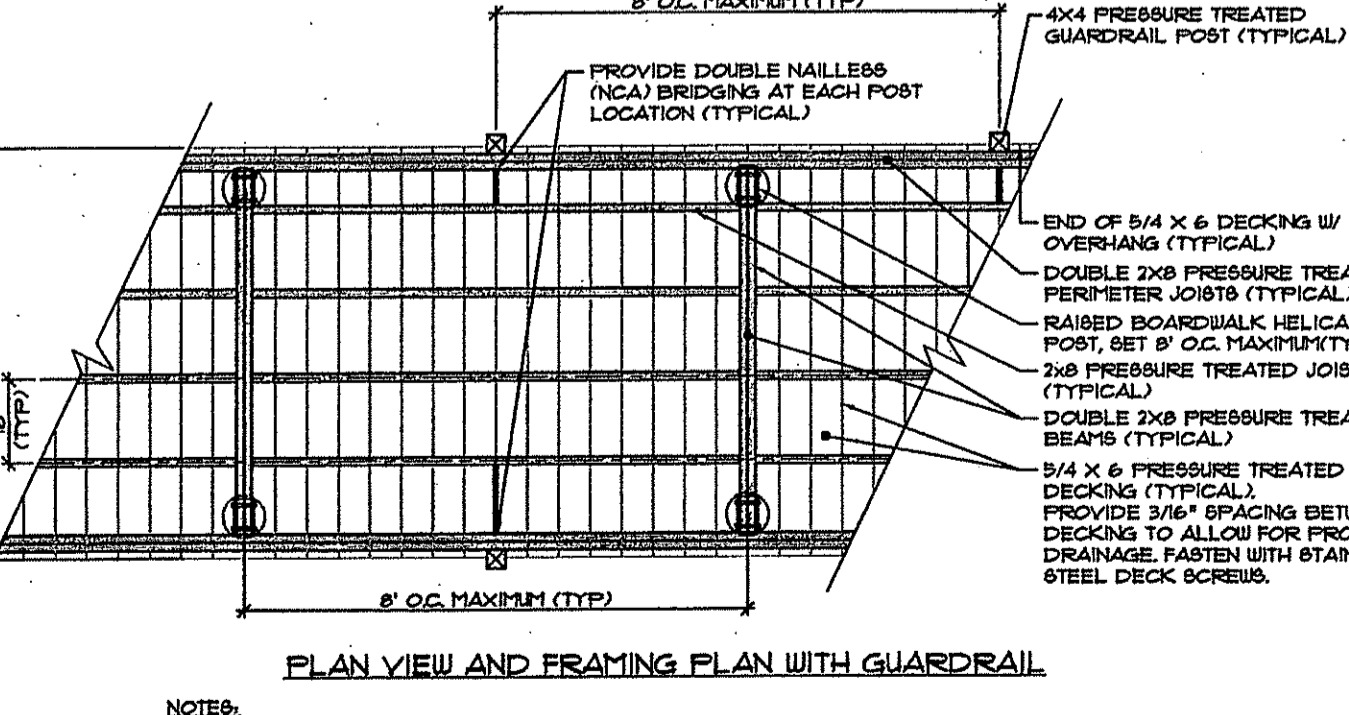
5 RAISED BOARDWALK WITH GUARDRAIL ELEVATION (TYPICAL) NOT TO SCALE



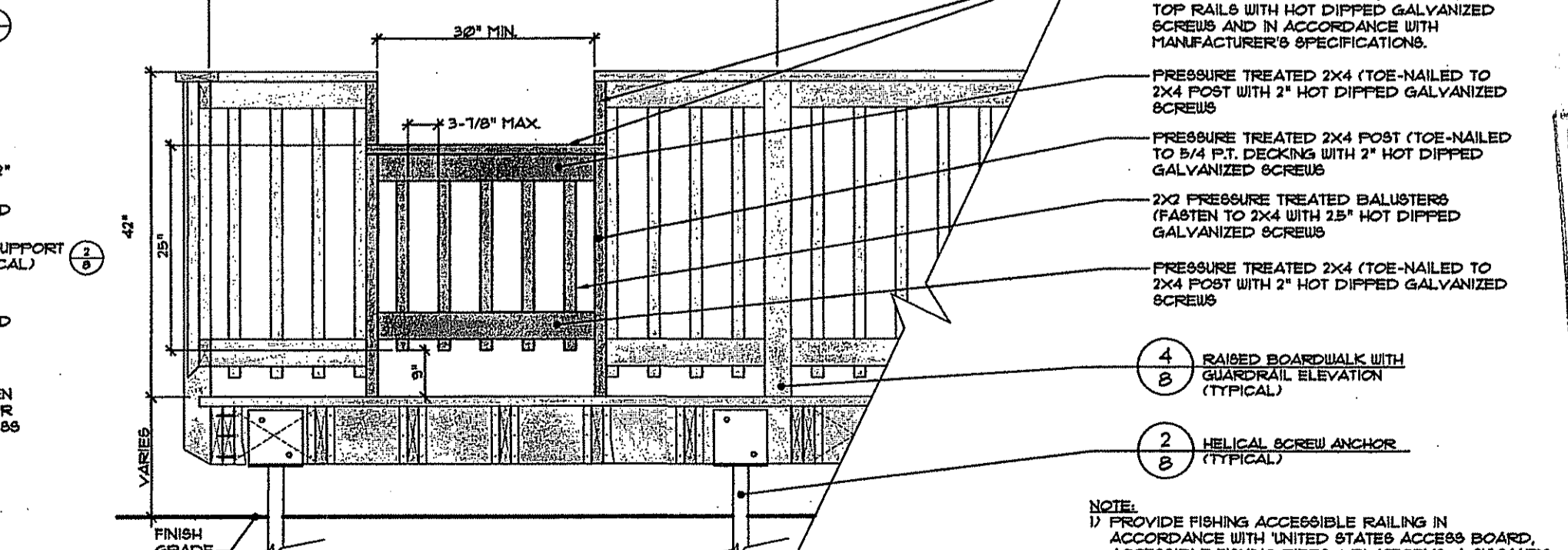
6 RAISED BOARDWALK WITH GUARDRAIL ELEVATION AT FISHING ACCESSIBLE RAILING NOT TO SCALE



7 RAISED BOARDWALK TYPICAL FRAMING DETAILS NOT TO SCALE

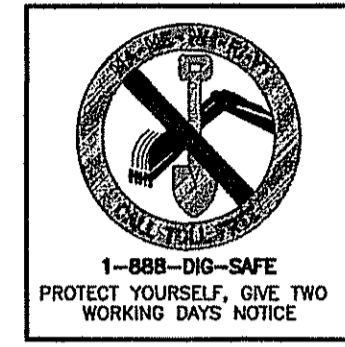


8 PLAN VIEW AND FRAMING PLAN WITH GUARDRAIL NOT TO SCALE

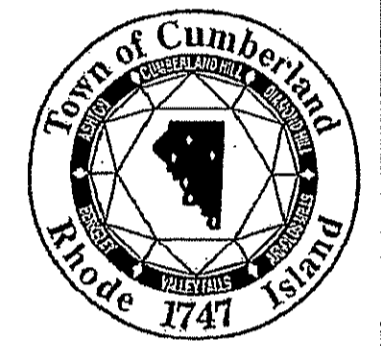


9 RAISED BOARDWALK WITH GUARDRAIL ELEVATION AT FISHING ACCESSIBLE RAILING NOT TO SCALE

No.	Revision:	Date:
1	ACCESSIBLE FISHING GUARDRAIL (DETAIL 6)	7-19-15



DIAMOND HILL PARK RENOVATION TO THE MUSIC VENUE



A.P. 59, LOT 15
4097 DIAMOND HILL ROAD
CUMBERLAND, RI

OWNER:
TOWN OF CUMBERLAND
DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT
45 BROAD STREET
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JEFFREY C. HANSON
No. 5238
Professional Engineer
12/6/15



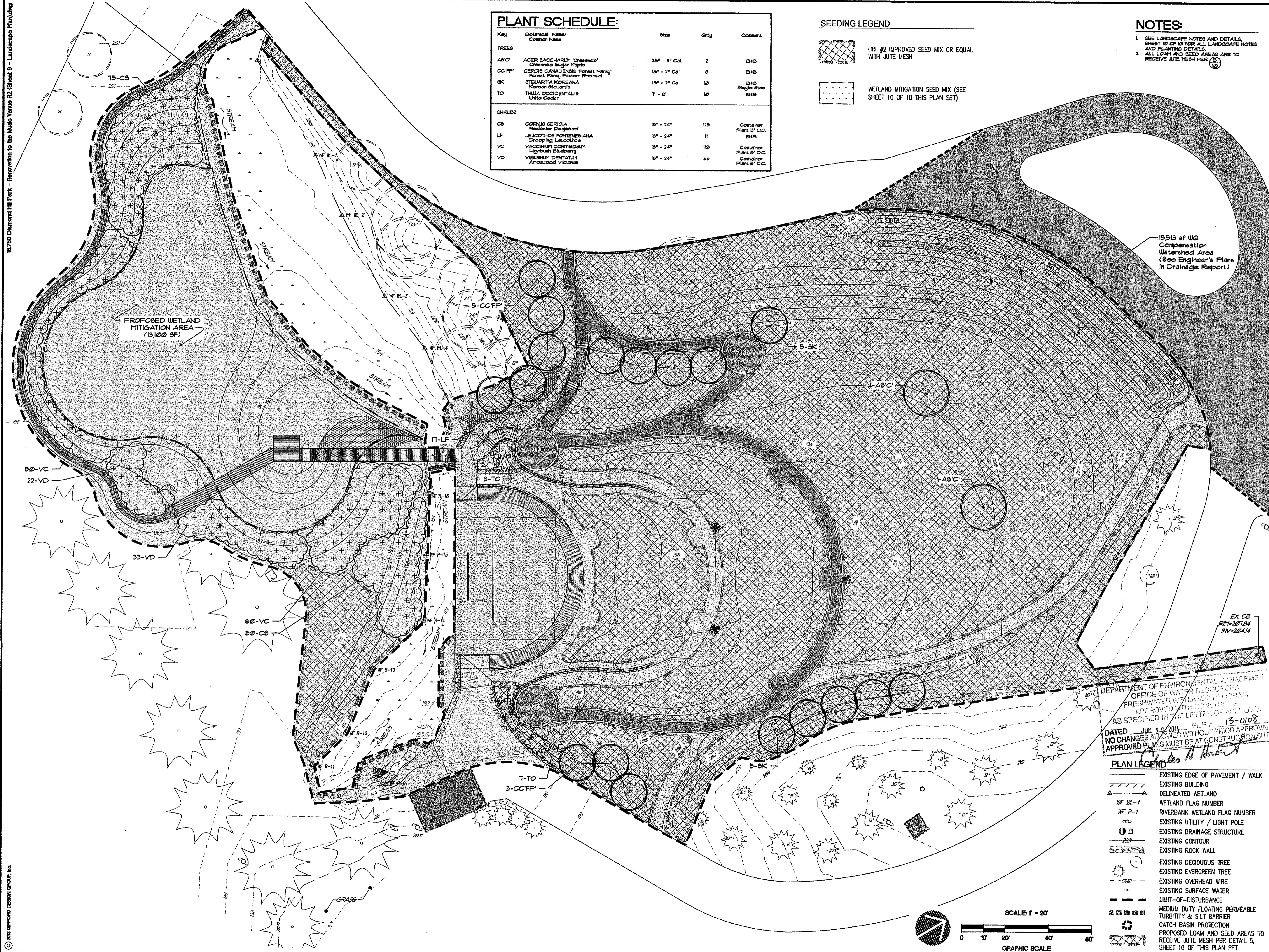
MILLSTONE ENGINEERING, P.C.
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PHONE (401) 671-6386 FAX (401) 671-6468

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WITH LANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 26 2014 FILE # 13-0108
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED FOR CONSTRUCTION SITE

BOARDWALK DETAILS

PROJECT NO. 16750 DRAWING 8 OF 11
DATE: JUNE 2013 DRAWING NO: 8
SCALE: AS SHOWN
DRAWN BY: WS
CHECKED BY: GHG

16.750 Diamond Hill Park - Renovation to the Music Venue R2 (Sheet 9 - Landscape Plan).dwg



PLANT SCHEDULE:

Key	Botanical Name/ Common Name	Size	Qty	Comment
TREES				
AS'C	ACER SACCHARIN 'Cresendo' Cresendo Sugar Maple	25" - 3" Cal.	2	B4B
CC'FP	CERCIS CANADENSIS 'Forest Flarey' Forest Flarey Eastern Redbud	15" - 2" Cal.	8	B4B
AK	STEUARITIA KOREANA Korean Bluestem	15" - 2" Cal.	10	B4B Single Stem
TO	THALIA OCCIDENTALIS White Cedar	1" - 8"	10	B4B
SHRUBS				
CS	CORNUS SERICIA Redosier Dogwood	18" - 24"	125	Container Plant 5' O.C.
LF	LEUCOTHOE FONTENESIANA Drooping Leucothoe	18" - 24"	11	B4B
VC	VACCINIUM CORYMBOSUM Highswath Blueberry	18" - 24"	10	Container Plant 5' O.C.
VD	VIBURNUM DENTATUM Arrowwood Viburnum	18" - 24"	55	Container Plant 5' O.C.

SEEDING LEGEND

URI #2 IMPROVED SEED MIX OR EQUAL WITH JUTE MESH

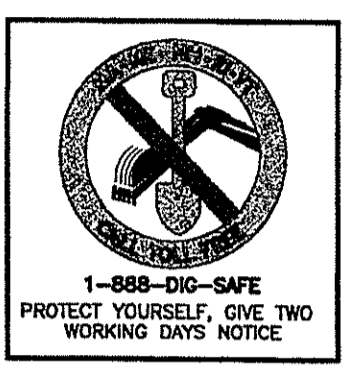
WETLAND MITIGATION SEED MIX (SEE SHEET 10 OF 10 THIS PLAN SET)

NOTES:

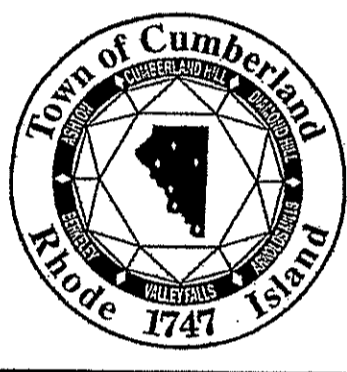
- SEE LANDSCAPE NOTES AND DETAILS, SHEET 10 OF 10 FOR ALL LANDSCAPE NOTES AND PLANTING DETAILS.
- ALL LOAM AND SEED AREAS ARE TO RECEIVE JUTE MESH PER (B) 10.

No.	Revision:	Date:
1	Enlarge wetland mitigation area	8-27-13
2	Grading and compensation area	12-04-13

REFERENCES:



DIAMOND HILL PARK RENOVATION TO THE MUSIC VENUE



A.P. 59, LOT 15
4097 DIAMOND HILL ROAD
CUMBERLAND, RI

OWNER:
TOWN OF CUMBERLAND
DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT
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JEFFREY C. HANSON
No. 5238
Professional Seal

Professional Seal
George B. Siskel, II
No. 1842

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLAND PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN. 25, 2014 FILE # 13-0108
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PLAN LEGEND

- EXISTING EDGE OF PAVEMENT / WALK
- EXISTING BUILDING
- DELINEATED WETLAND
- WF ML-1 WETLAND FLAG NUMBER
- WF R-1 RIVERBANK WETLAND FLAG NUMBER
- EXISTING UTILITY / LIGHT POLE
- EXISTING DRAINAGE STRUCTURE
- EXISTING CONTOUR
- EXISTING ROCK WALL
- EXISTING DECIDUOUS TREE
- EXISTING EVERGREEN TREE
- EXISTING OVERHEAD WIRE
- EXISTING SURFACE WATER
- LIMIT-OF-DISTURBANCE
- MEDIUM DUTY FLOATING PERMEABLE TURBIDITY & SILT BARRIER
- CATCH BASIN PROTECTION
- PROPOSED LOAM AND SEED AREAS TO RECEIVE JUTE MESH PER DETAIL 5, SHEET 10 OF THIS PLAN SET

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CIVIL ENGINEERING • LANDSCAPE ARCHITECTURE • LAND PLANNING
200 CENTENNIAL ROAD, BUILDING 612, WARREN, RHODE ISLAND 02886, P. (401) 291-0244 F. (401) 291-0243

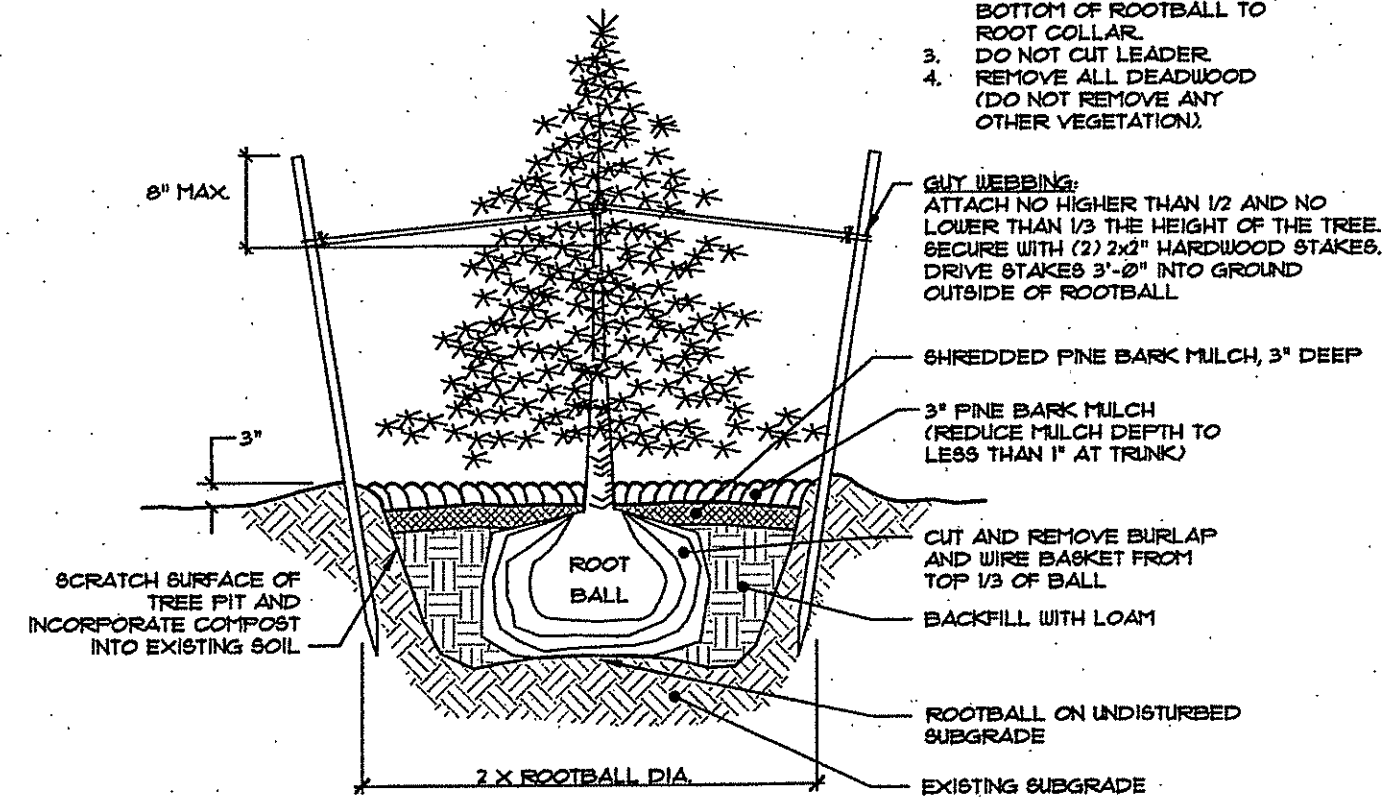
LANDSCAPE PLAN

PROJECT NO. 16.750 DRAWING 9 OF 11
DATE: JUNE 2013 DRAWING NO:
SCALE: AS SHOWN **9**
DRAWN BY: WS
CHECKED BY: GHG

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NOTES:

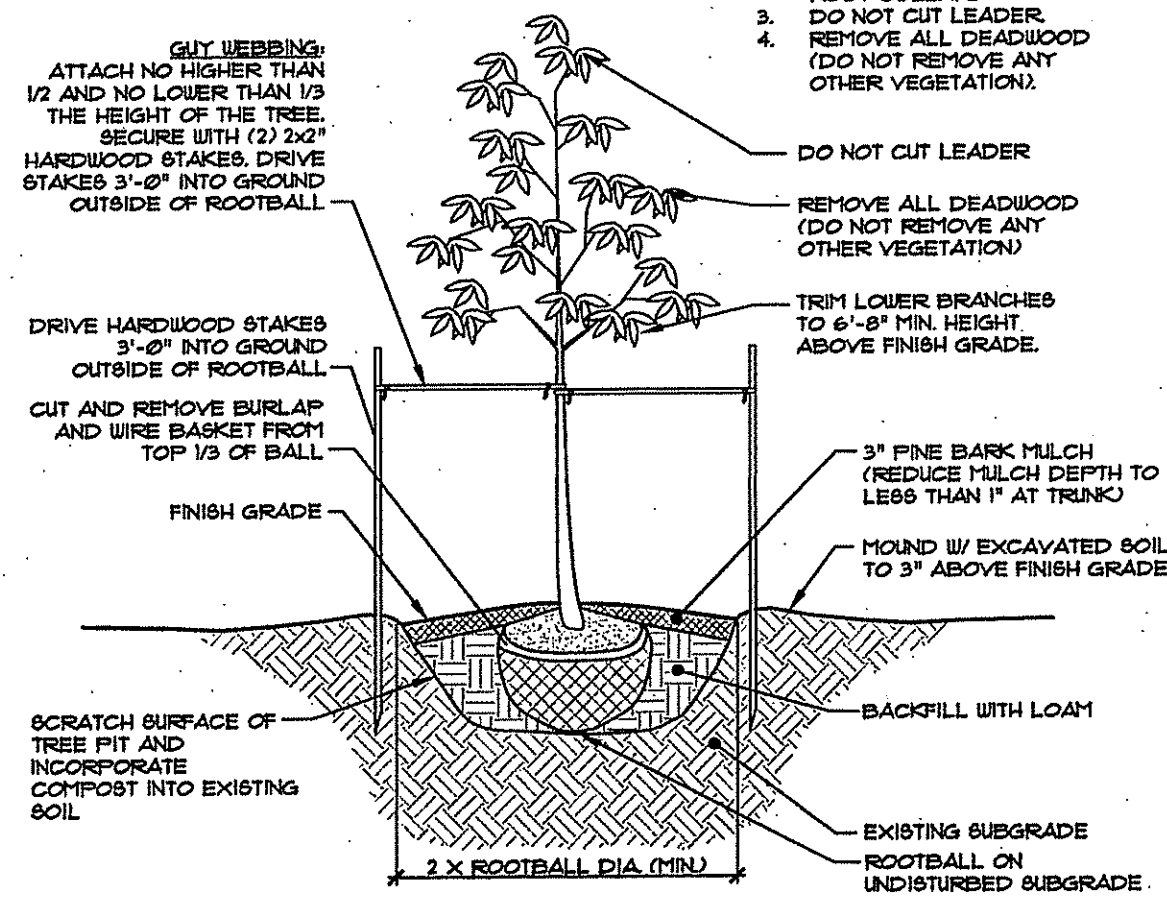
1. ALL UNSUITABLE MATERIAL SHALL BE REMOVED FROM PLANTING BED, AND REPLACED WITH CLEAN, PLANTABLE SOIL.
2. TREE TO BE PLANTED AT DEPTH EQUAL TO 2" LESS THAN THE DISTANCE FROM BOTTOM OF ROOTBALL TO ROOT COLLAR.
3. DO NOT CUT LEADER.
4. REMOVE ALL DEADWOOD (DO NOT REMOVE ANY OTHER VEGETATION).



1 EVERGREEN PLANTING & STAKING DETAIL
NOT TO SCALE

NOTES:

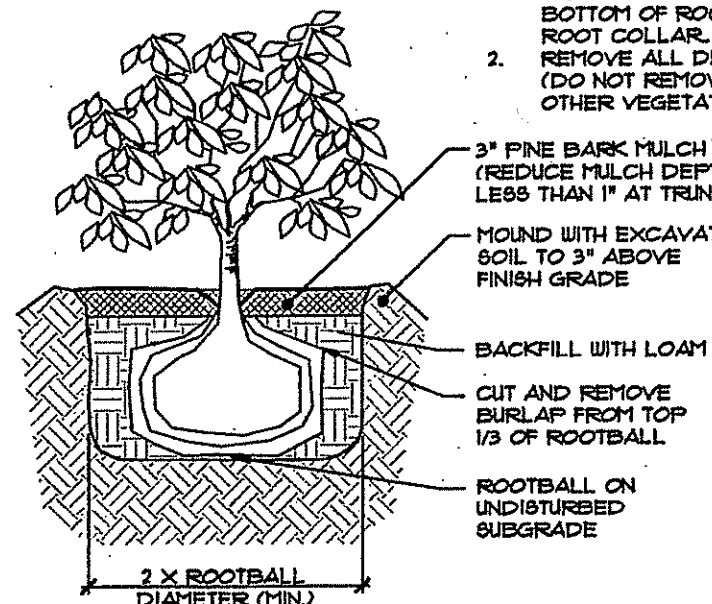
1. ALL UNSUITABLE MATERIAL SHALL BE REMOVED FROM PLANTING BED, AND REPLACED WITH CLEAN, PLANTABLE SOIL.
2. TREE TO BE PLANTED AT DEPTH EQUAL TO 2" LESS THAN THE DISTANCE FROM BOTTOM OF ROOTBALL TO ROOT COLLAR.
3. DO NOT CUT LEADER.
4. REMOVE ALL DEADWOOD (DO NOT REMOVE ANY OTHER VEGETATION).



2 TREE PLANTING & STAKING DETAIL
NOT TO SCALE

NOTES:

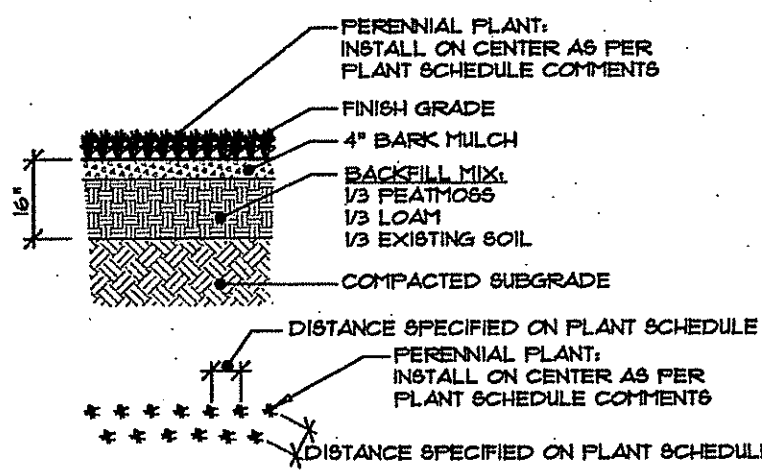
1. PLANT SHRUB AT DEPTH EQUAL TO 2" LESS THAN THE DISTANCE FROM BOTTOM OF ROOTBALL TO ROOT COLLAR.
2. REMOVE ALL DEADWOOD (DO NOT REMOVE ANY OTHER VEGETATION).



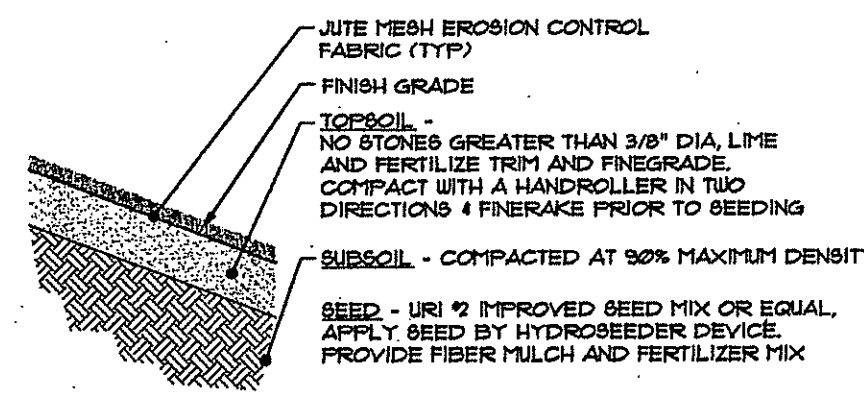
3 SHRUB PLANTING DETAIL
NOT TO SCALE

LANDSCAPE NOTES:

1. GUARANTEE THAT, UPON COMPLETION AND FINAL ACCEPTANCE, LANDSCAPE PLANTINGS CONFORM TO REQUIREMENTS OF CONTRACT DOCUMENTS. PROVIDE A WARRANTY FOR TREE PLANTINGS FOR A PERIOD OF ONE (1) YEAR, INCLUDING ONE (1) CONTIGUOUS GROWING SEASON. COMMENCE WARRANTY ON DATE IDENTIFIED IN THE 'CERTIFICATE OF FINAL COMPLETION'.
2. REPLACEMENTS: PLANTS OF SAME SIZE AND SPECIES AS SPECIFIED, PLANTED IN THE NEXT GROWING SEASON, WITH NEW WARRANTY AND EXTENDED MAINTENANCE SERVICE COMMENCING ON THE DATE OF REPLACEMENT.
3. PLANT MATERIALS SHALL BE OF SIZE AND CALIBER REQUIRED AND CONFORM TO THE REQUIREMENTS DESCRIBED IN THE LATEST EDITION OF AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERMEN.
4. PLANTS OF OTHER KINDS THAN THOSE NAMED IN THE PLANT SCHEDULE SHALL NOT BE ACCEPTED WITHOUT APPROVAL. REPLACEMENT PLANTS LARGER IN SIZE THAN EXISTING MAY BE USED IF APPROVED BY THE A/E. PROVIDED USE OF LARGER PLANTS DOES NOT INCREASE CONTRACT PRICE.
5. A PROFESSIONAL HORTICULTURIST/NURSERMAN SHALL BE CONSULTED TO DETERMINE THE PROPER TIME TO MOVE AND INSTALL PLANT MATERIAL SO THAT STRESS TO THE PLANT IS MINIMIZED. PLANTING OF DECIDUOUS MATERIAL MAY BE CONTINUED DURING WINTER MONTHS PROVIDED THERE IS NO FROST IN THE GROUND AND FROST-FREE TOPSOIL. PLANTING MIXTURES ARE USED.
6. UNLESS OTHERWISE APPROVED BY THE A/E, ALL PLANTS SHALL BE NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES AND SHALL HAVE BEEN GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST TWO (2) YEARS.
7. SET PLANTS PLUMB AND AT SUCH A LEVEL THAT AFTER SETTLEMENT THEY BEAR THE SAME RELATION TO THE SURROUNDING GROUND AS THEY BORE TO THE GROUND FROM WHICH THEY WERE DUG. SETTLE BACKFILL MATERIAL FOR PLANTS THOROUGHLY & PROPERLY, BY FIRING OR TAMPING. ACCOMPANY BACKFILLING WITH THOROUGH WATERING UNLESS OTHERWISE APPROVED. FORM BARRIERS CAPABLE OF HOLDING WATER AROUND INDIVIDUAL PLANTS.
8. FERTILIZE SHRUB BEDS WITH 10-10-10 FERTILIZER AT THE RATE OF 3 POUNDS PER 100 SQUARE FEET OF SURFACE AREA, BROAD CAST. APPLY THE FERTILIZER UNIFORMLY TO THE SURFACE BEDS AND WORK INTO THE UPPER TWO (2) INCHES OF SOIL. FERTILIZE INDIVIDUAL TREES AT THE RATE OF ONE (1) AGRIFORM PELLETT PER INCH OF TREE DIAMETER (FOLLOW MANUFACTURER'S WRITTEN INSTRUCTIONS). APPLY A SECOND APPLICATION OF FERTILIZER TO ALL PLANT TYPES AT THE SAME SPECIFIED RATES OVER THE MULCH AT THE END OF AN EIGHT WEEK PERIOD.
9. CONTAINER GROWN MATERIALS: REMOVE PLANT FROM CONTAINER AND 'BUTTERFLY' ROOT BALL OR OTHERWISE SPREAD OUT ROOTS ON SETTING MOUND. BACKFILL SHALL BE SIFTED THROUGH TIEB AND SOLIDLY TAPPED.
10. AFTER PLANTING PRUNE ONLY BROKEN OR DEFORMED BRANCHES AND IN SUCH MANNER AS TO PRESERVE NATURAL CHARACTER OF PLANT.
11. IMMEDIATELY AFTER PLANTING, STAKE TREES OVER FIVE (5) FEET AS INDICATED ON DETAIL. DRAINS INDICATED OR APPROVED BY THE OWNER'S REPRESENTATIVE. REMOVE STAKES AT THE END OF GUARANTEE PERIOD.
12. MULCH SHALL BE APPLIED A MINIMUM OF THREE (3) INCHES IN DEPTH IN ALL PLANTING BEDS, AS INDICATED ON THE DRAWINGS.
13. THE PLANTS SHALL BE WATERED IMMEDIATELY FOLLOWING PLANTING, PREFERABLY WHEN TWO THIRDS OF THE BACKFILL HAS BEEN PLACED SO ALL AIR POCKETS ARE REMOVED AND THE PLANT PROPERLY SET. ADDITIONAL WATERING SHALL BE MADE AT LEAST ONCE EVERY THREE (3) WEEKS UNLESS OTHERWISE DIRECTED UNTIL FINAL ACCEPTANCE OF THE PLANT MATERIAL.
14. INSTALL 'JUTE MESH' EROSION CONTROL FABRIC WHERE FINAL GRADES ARE 3:1 (33%) OR GREATER UNLESS OTHERWISE SPECIFIED, CONTRACTOR TO LOAM & SEED ALL DISTURBED AREAS.
15. SEEDING NOTE: FOR LOAM & SEED WITH JUTE MESH AREAS USE UNIVERSITY OF RHODE ISLAND NO. 2 IMPROVED SEED MIX OR EQUAL. FOR WETLAND MITIGATION AREA USE WETLAND MITIGATION SEED MIX: NEW ENGLAND WETLANDS MOIST MIX AS SHOWN ON THIS SHEET, 10 OF 10 OF THIS PLAN SET.
16. TREE STAKING NOTE: ANY TREE STAKING APPARATUS MUST BE REMOVED NO LATER THAN ONE YEAR (1) AFTER INSTALLATION.
17. TREE PRUNING NOTE: STREET TREES SHOULD BE PRUNED TO MAINTAIN A MINIMAL BRANCH HEIGHT OF 8' WITHIN TWO (2) YEARS OF INSTALLATION OF THE TREE.
18. LANDSCAPE ESTABLISHMENT AND MAINTENANCE NOTE: CONTRACTOR SHALL ENSURE THAT ALL LAWN AREAS AND PLANTINGS ARE FULLY ESTABLISHED AND ACCEPTABLE TO THE OWNER'S REPRESENTATIVE PRIOR TO RELINQUISHING THEIR RESPONSIBILITIES FOR MAINTENANCE OF THESE AREAS.



4 PERENNIAL PLANTING DETAIL
NOT TO SCALE



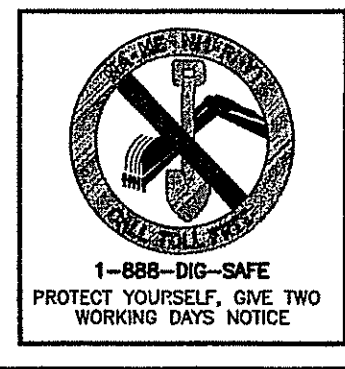
5 LOAM & SEED WITH JUTE MESH
NOT TO SCALE

WETLAND MITIGATION SEED MIX

"New England Wetlands Moist Mix":

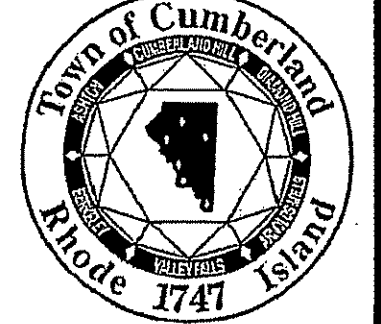
<i>Panicum virgatum</i>	Blackwell Switchgrass
<i>Elymus virginicus</i>	Virginia wild rye
<i>Festuca rubra</i>	Creeping red fescue
<i>Carex vulpinaea</i>	Fox Sedge
<i>Agrostis stolonifera</i>	Creeping Bentgrass
<i>Andropogon gerardii</i>	Niagara big bluestem
<i>Schizachyrium scoparium</i>	Camper little bluestem
<i>Juncus effusus</i>	Soft Rush
<i>Eupatorium maculatum</i>	Spotted Joe Pye weed
<i>Aster novae angliae</i>	New England Aster
<i>Verbena hastata</i>	Blue Vervain
<i>Scirpus atrovirens</i>	Green Bulrush
<i>Euthamia graminifolia</i>	Grass-leaved goldenrod

No:	Revision:	Date:



DIAMOND HILL PARK RENOVATION TO THE MUSIC VENUE

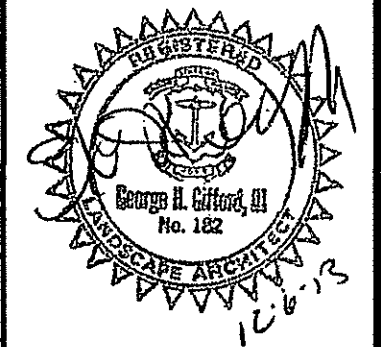
A.P. 59, LOT 15
4097 DIAMOND HILL ROAD
CUMBERLAND, RI



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Professional Engineer
10/6/15



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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 26 2014 FILE # 13-0108
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSULTING ENGINEER'S SITE

MILLSTONE ENGINEERING, P.C.
Civil Engineering • Landscape Architecture • Land Planning
20 CENTRAL EXPLORATION BUILDING, WARREN, RHODE ISLAND 02881, 401-951-0333

LANDSCAPE NOTES and DETAILS

PROJECT NO. 16.750 DRAWING 10 OF 11
DATE: JUNE 2013 DRAWING NO: 10
SCALE: AS SHOWN
DRAWN BY: WS
CHECKED BY: GHG