

PULASKI PARK

NORTHAMPTON MA

100% DESIGN DEVELOPMENT

02.18.2015

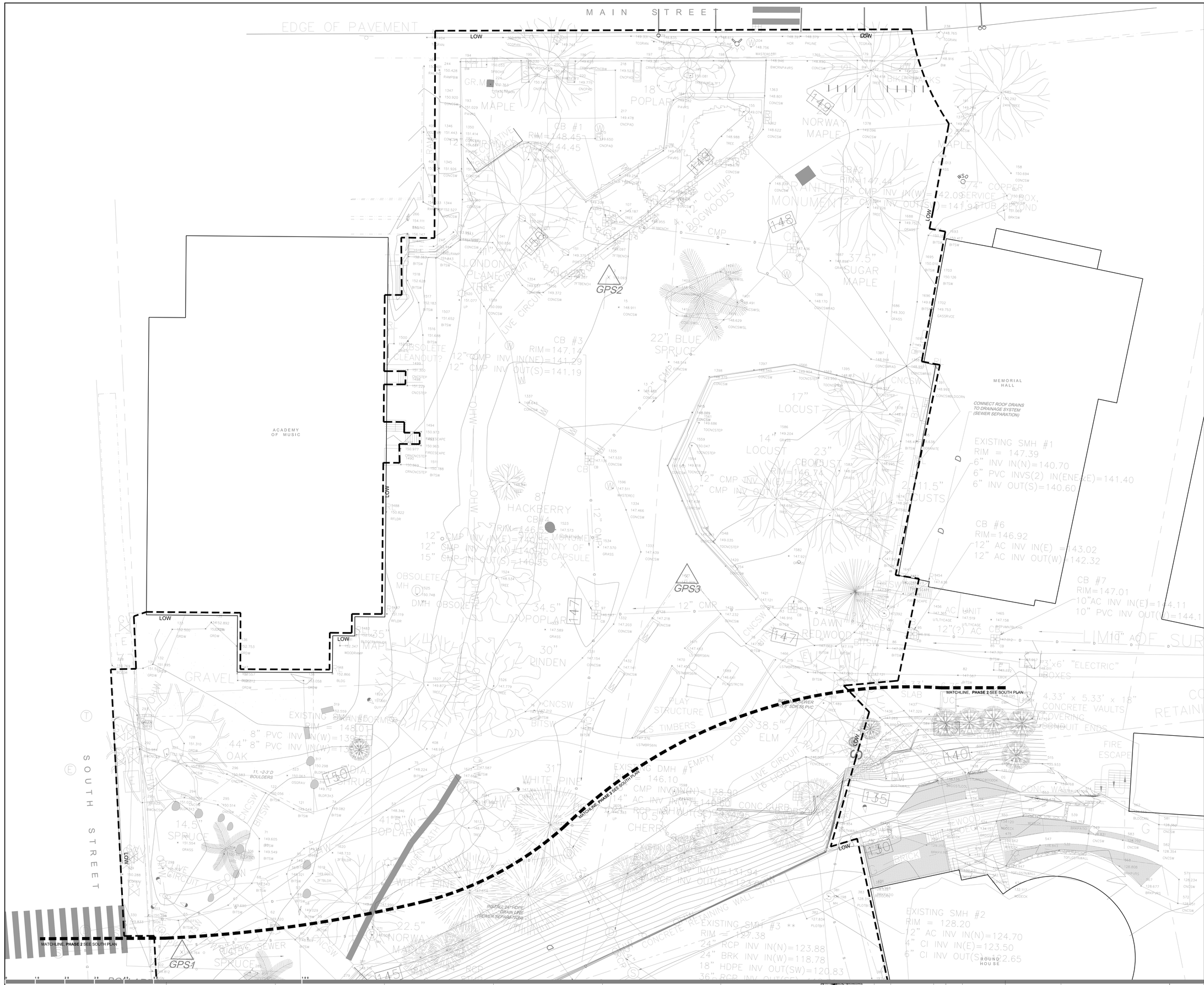
L 1.0 EXISTING CONDITIONS - NORTH
L 1.1 EXISTING CONDITIONS - SOUTH
L1.2 SITE PREPARATION PLAN - NORTH
L1.3 SITE PREPARATION PLAN - SOUTH
L2.0 LAYOUT PLAN - NORTH
L2.1 LAYOUT PLAN - SOUTH
L3.0 MATERIALS PLAN - NORTH
L3.1 MATERIALS PLAN - SOUTH
L4.0 GRADING PLAN - NORTH
L4.1 GRADING PLAN - SOUTH
L5.0 SOILS PLAN - NORTH
L5.1 SOILS PLAN - SOUTH
L5.2 PLANTING PLAN - NORTH
L5.3 PLANTING PLAN - SOUTH
L5.4 PLANTING DETAILS
L6.0 LIGHTING PLAN - NORTH
L6.1 LIGHTING PLAN - SOUTH
L7.0 SITE SECTIONS
L7.1 SITE SECTIONS
L8.0 PAVING DETAILS
L8.1 WALL, STEP, AND SITE AMENITY DETAILS
L8.2 WATER FEATURE AND BIOSWALE DETAILS

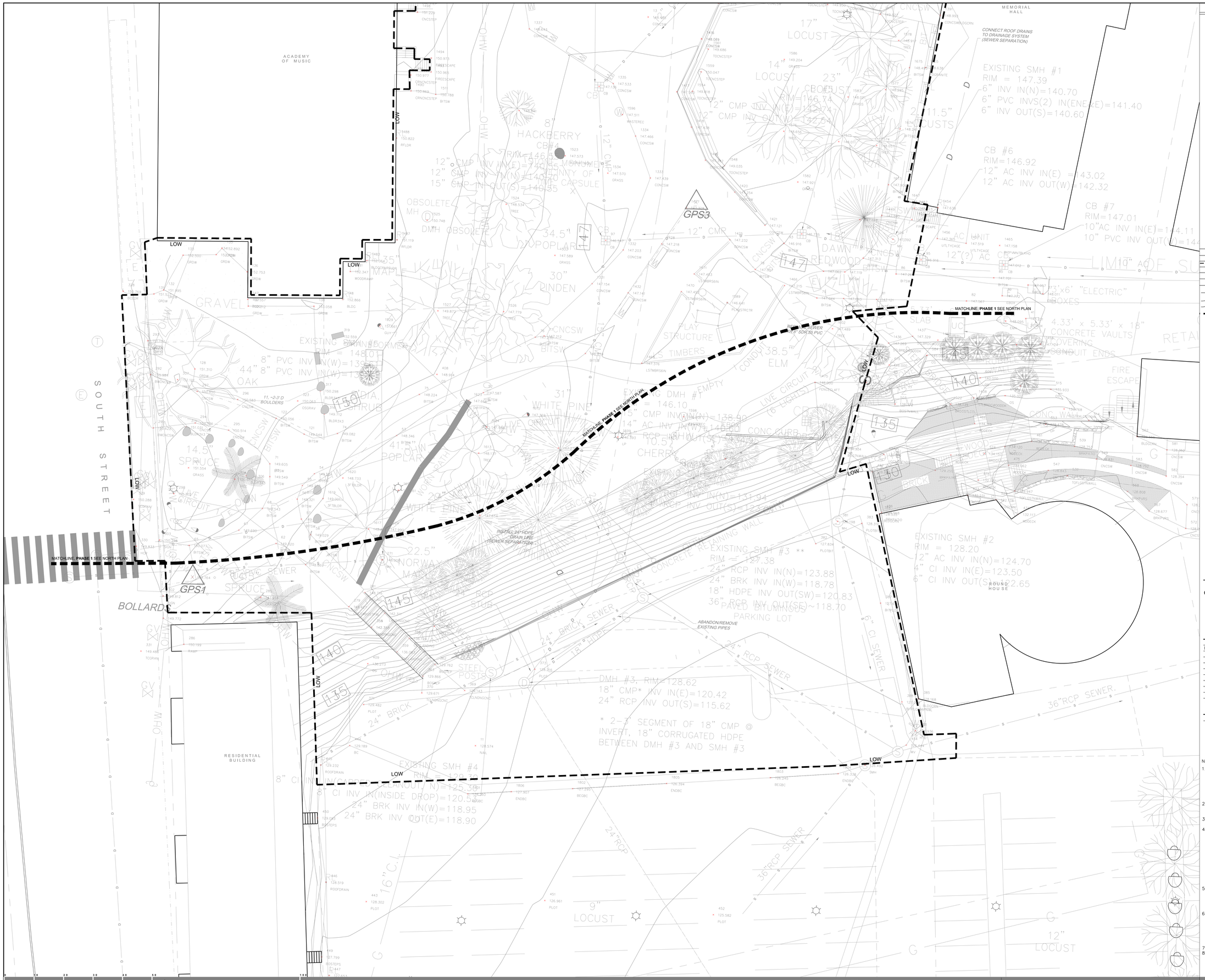
C1.00 SITE UTILITY DEMOLITION AND EROSION CONTROL PLAN
C1.01 EROSION CONTROL DETAILS
C1.02 EROSION CONTROL DETAILS
C2.00 SITE UTILITY PLAN - NORTH
C2.01 SITE UTILITY PLAN - SOUTH
C4.00 CIVIL DETAILS

I1.0 IRRIGATION PLAN - NORTH
I2.0 IRRIGATION DETAILS

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MAIN STREET
EDGE OF PAVEMENT
LOW
ACADEMY OF MUSIC
SOUTH STREET
MEMORIAL HALL
CONNECT ROOF DRAINS TO DRAINAGE SYSTEM (SEWER SEPARATION)
EXISTING SMH #1
RIM = 147.39
6" INV IN(N)=140.70
6" PVC INVS(2) IN(ENE&E)=141.40
6" INV OUT(S)=140.60
CB #1
RIM=148.45
CB #2
RIM=147.44
CB #3
RIM=147.14
CB #6
RIM=146.92
12" AC INV IN(E) = 143.02
12" AC INV OUT(W)=142.32
CB #7
RIM=147.01
10"AC INV IN(E)=144.11
10" PVC INV OUT(S)=144.1
12" CMP INV IN(NE)=141.29
12" CMP INV OUT(S)=141.19
CMP INV IN(W)=142.09
CMP INV OUT(S)=141.94
12" CMP INV IN(E)=142.74
12" CMP INV OUT(W)=142.54
12" CMP INV IN(N)=140.20
15" CMP INV OUT(S)=140.05
EXISTING SMH #2
RIM = 128.20
12" AC INV IN(N)=124.70
4" CI INV IN(E)=123.50
6" CI INV OUT(S)=122.65
EXISTING SMH #3 **
RIM = 127.38
24" RCP INV IN(N)=123.88
24" BRK INV IN(W)=118.78
18" HDPE INV OUT(SW)=120.83
EXISTING DMH #1
146.10
CMP INV IN(N)=138.90
4" AC INV IN(W)=140.50
CONC INV OUT(S)=140.40
EXISTING DMH #2
RIM = 148.01
8" PVC INV IN(W)=139.
8" PVC INV OUT(E)=139.
GPS1
GPS2
GPS3
MATCHLINE, PHASE 2 SEE SOUTH PLAN
MATCHLINE, PHASE 2 SEE SOUTH PLAN
INSTALL 24" HDPE DRAIN LINE (SEWER SEPARATION)
30" MAPLE
18" POPLAR
12" CLUMP BOGWOODS
NORWAY MAPLE
MAPLE
37.5" SUGAR MAPLE
22" BLUE SPRUCE
17" LOCUST
14" LOCUST
23" LOCUST
2 @ 11.5" LOCUSTS
8" HACKBERRY
34.5" POPLAR
30" LINDEN
31" WHITE PINE
14.5" SPRUCE
11-2-3 D BOULDERS
4" COPPER MONUMENT
12" CMP
7'BENCH
GRAVEL DRIVE
LONDON PLANETREE
LIVE CIRCUMFERENCE TO EXHAUST
CONCRETE RETAINING WALL
CONCRETE VAULTS
BRICK
ROUND HOUSE
PLAY STRUCTURE
TIMBERS
CONC
ELM
OAK
SPRUCE
CHERRY
BIRCH
BENCH
BIKE RACKS
SOLE CLEANOUT?
OBSOLETE MH
DMH OBSOLETE
CAPSULE
SLAB
FIRE ESCAPE
4.33' x 5.33' x 18" CONCRETE VAULTS
6' "ELECTRIC" BOXES
10" ADS
12"(3) AC
4" CONDUIT ENDS
COVERING
RETAINING WALL
CONCRETE WALK
BRICK WALL
TOP/CURB/WALL
BRICK PAVERS
BITUMINOUS CONCRETE
CONCRETE SIDEWALK
GRASS
TREE
WOODRAMP
PLOTBIT
PLOTSTRCTR
LSTMBRS6IN
LSTMBRS8IN
BLDG
BLDGCONC
BRKSW
CNCSW
GASSRVCE
WATERSERVICE
WATERMAIN
WATERGATE
WATERREC
WATERVLV
WATERBLOW
WATERHYD
WATERMH
WATERSERVICE
WASTEREC
WASTEMH
WASTEGATE
WASTEMH
WASTEVLV
WASTEMH
WASTEMH
WASTEMH


ACADEMY OF MUSIC
MEMORIAL HALL
CONNECT ROOF DRAINS TO DRAINAGE SYSTEM (SEWER SEPARATION)
EXISTING SMH #1
RIM = 147.39
6" INV IN(N)=140.70
6" PVC INVS(2) IN(ENE/E)=141.40
6" INV OUT(S)=140.60
CB #6
RIM=146.92
12" AC INV IN(E) =143.02
12" AC INV OUT(W)=142.32
CB #7
RIM=147.01
10"AC INV IN(E)=144.11
10" PVC INV OUT(W)=144.01
EXISTING SMH #2
RIM = 128.20
12" AC INV IN(N)=124.70
4" CI INV IN(E)=123.50
6" CI INV OUT(S)=122.65
ROUND HOUSE
EXISTING SMH #3 **
RIM = 127.38
24" RCP INV IN(N)=123.88
24" BRK INV IN(W)=118.78
18" HDPE INV OUT(SW)=120.83
36" RCP INV OUT(SE)~118.70
EXISTING SMH #4
RIM = 129.70
8" CI INV IN(INSIDE DROP)=120.5
24" BRK INV IN(W)=118.95
24" BRK INV OUT(E)=118.90
DMH #3, RIM=128.62
18" CMP* INV IN(E)=120.42
24" RCP INV OUT(S)=115.62
* 2-3' SEGMENT OF 18" CMP @ INVERT, 18" CORRUGATED HDPE BETWEEN DMH #3 AND SMH #3
DMH #1
RIM = 146.10
12" CMP INV IN(N)=138.90
14" AC INV IN(W)=138.60
12" RCP INV OUT(S)=138.50
DMH OBSOLETE
RIM=146.74
12" CMP INV IN(E)=140.74
12" CMP INV OUT(W)=140.54
DMH OBSOLETE
RIM=146.35
12" CMP INV IN(E)=140.05
15" CMP INV OUT(S)=140.05
MATCHLINE, PHASE 1 SEE NORTH PLAN
MATCHLINE, PHASE 1 SEE NORTH PLAN
SOUTH STREET
BOLLARD
RESIDENTIAL BUILDING
GPS1
GPS3
LOW
ABANDON/REMOVE EXISTING PIPES
INSTALL 24" HDPE DRAIN LINE (SEWER SEPARATION)
12" BRICK SEWER
18" HDPE
24" RCP SEWER
36"RCP SEWER
CI SEWER
8" CI SEWER
12" CMP
8" PVC INV IN(W)=139.66
8" PVC INV OUT(E)=139.56
4.33' x 5.33' x 18" CONCRETE VAULTS COVERING CONDUIT ENDS
6' x 6' "ELECTRIC" BOXES
FIRE ESCAPE
BRICK
PARKING LOT
PLAY STRUCTURE
STEEL POSTS
RETAINING WALL
CONCRETE RETAINING WALL
11', +-3'D BOULDERS
OBSOLETE MH
DMH OBSOLETE
CATCH BASIN
CB #4
CB #5
CB #8
CB #9
CB #10
CB #11
CB #12
CB #13
CB #14
CB #15
CB #16
CB #17
CB #18
CB #19
CB #20
CB #21
CB #22
CB #23
CB #24
CB #25
CB #26
CB #27
CB



DEMOLITION LEGEND

SYM	DESCRIPTION
	CLEAR AND GRUB TOPSOIL TO BE STRIPPED AND STORED FOR REUSE
	REMOVE AND DISPOSE OF WALL AND / OR STAIRS
	BITUMINOUS CONCRETE OR CONCRETE PAVING TO BE REMOVED
	EXISTING BENCHES WITHIN PARK TO BE REMOVED, STORED, AND PROTECTED FOR REUSE UNLESS OTHERWISE NOTED, TYP
	REMOVE FENCE
	TREE PROTECTION FENCE
LOW	LIMIT OF WORK
	SAW CUT EXISTING PAVEMENT
X	TREE TO BE REMOVED, ROOTS GRUBBED PER SPEC

NOTE: SALVAGE AND STOCKPILE EXISTING HISTORIC LAMP POST FIXTURES FOR POSSIBLE REUSE, SEE LIGHTING PLAN.

DEMOLITION NOTES

1. Call DIGSAFE (1-888-344-7233) to locate existing utilities prior to any excavation. Protect existing utilities to remain throughout the construction process, and repair any damage done to these at no cost to the Owner. See Civil drawings for more information.
2. The limit of work line will be established with fencing as per spec. Fencing is to be kept in good repair throughout the construction process.
3. Existing paths on site to remain open and accessible. Do not block or impede with construction activities. Reroute as required.
4. Strip topsoil from construction access areas. Stockpile offsite for reuse. Add 6" gravel to stabilize parking and drive surfaces.
5. Protect existing trees to remain throughout the construction process. No digging within 15 feet of the trunk of a tree without review of LA. Root prune any roots exposed from digging. No cutting of any support roots more than 3 inches in diameter without review by LA. Any tree roots exposed from digging more than 6 hours shall be covered in burlap and kept wet. No vehicular equipment or material storage allowed under dripline of existing trees. See specifications for additional tree protection requirements.
6. See civil plans for utility information and silt fence.
7. Existing lights to be removed and given to owner
8. Existing granite curb to be removed and stockpiled

STEPHEN STIMSON ASSOCIATES LANDSCAPE ARCHITECTS

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ISSUE	DATE	DESCRIPTION
8		
7		
6		
5		
4		
3		
2	02.18.15	100% DD SET
1	12.11.14	95% DD CHECK SET

ISSUE	DATE	DESCRIPTION
16		
15		
14		
13		
12		
11		
10		
9		

PULASKI PARK
NORTHAMPTON , MA

SCALE 1"=10'-0"
DATE 02.18.2015
DRAWN BY GS, AD, SL, JF, ND
REVIEWED BY LS, SS

DESIGN DEVELOPMENT

SITE PREPARATION PLAN - NORTH

L1.2

PROTECT EXISTING ACADEMY STEPS

ACADEMY OF MUSIC

MEMORIAL HALL

CONNECT ROOF DRAINS TO EXISTING DRAIN (SEWER SEPARATION)

TREE PROTECTION FENCE, TYP.

REMOVE AND DISPOSE OF WALL AND / OR STAIRS

CLEAR AND GRUB TOPSOIL TO BE STRIPPED AND STORED FOR REUSE

EXISTING SMH #1
RIM = 147.39
6" INV IN(N)=140.70
6" PVC INVS(2) IN(ENE&E)=141.40
6" INV OUT(S)=140.60

CB #6
RIM=146.92
12" AC INV IN(E) =143.02
OUT(W)=142.32

CB #7
RIM=147.01
10"AC INV IN(E)=144.11
10" PVC INV OUT(

EXISTING TIME CAPSULE TO BE RELOCATED TO BE STORED & PROTECTED DURING CONSTRUCTION

TREE PROTECTION FENCE, TYP.

EXISTING PAVEMENT TO REMAIN AND BE PATCHED AS NECESSARY. PATH TO BE KEPT OPEN DURING CONSTRUCTION

COORDINATE ALL DEMO & CONSTRUCTION WORK AT ACADEMY LOADING DOCK IN COORDINATION W/CITY DPW & ACADEMY PERFORMANCE SCHEDULE

LOW

CLEAR AND GRUB TOPSOIL TO BE STRIPPED AND STORED FOR REUSE

BITUMINOUS CONCRETE OR CONCRETE PAVING TO BE REMOVED

SAW CUT & PROTECT PAVEMENT TO REMAIN

MATCHLINE **PHASE 1** SEE NORTH PLAN

SAW CUT & PROTECT PAVEMENT TO REMAIN

CURB CUT TO BE REMOVED AND REPLACED WITH RAISED GRANITE CURB

EXISTING TRANSFORMER TO REMAIN

GRAVEL PAVING TO BE REMOVED

CLEAR AND GRUB TOPSOIL TO BE STRIPPED AND STORED FOR REUSE

EXISTING PLAY EQUIPMENT TO BE REMOVED AND RETURNED TO CITY FOR REUSE OFFSITE

SOUTH STREET

BITUMINOUS CONCRETE OR CONCRETE PAVING TO BE REMOVED

PROTECT EXISTING CURB

CLEAR AND GRUB TOPSOIL TO BE STRIPPED AND STORED FOR REUSE

MATCHLINE **PHASE 1** SEE NORTH PLAN

REMOVE & DISPOSE OF EX. WALL &/OR STAIRS

EXISTING LIGHT POLES WITHIN PARK TO BE REMOVED, STORED, AND PROTECTED FOR REUSE UNLESS OTHERWISE NOTED, TYP

SAW CUT & PROTECT PAVEMENT TO REMAIN

REMOVE CHAIN LINK FENCE

CLEAR AND GRUB TOPSOIL TO BE STRIPPED AND STORED FOR REUSE

EX. SEWER MANHOLES TO REMAIN, TYP

EXISTING SMH #2
RIM = 128.20
12" AC INV IN(N)=124.70
4" CI INV IN(E)=123.50
6" CI INV OUT(S)=122.65

ROUND HOUSE

BOLLARD

REMOVE AND DISPOSE OF WALL AND / OR STAIRS

CLEAR AND GRUB TOPSOIL TO BE STRIPPED AND STORED FOR REUSE

ABANDON/REMOVE EXISTING PIPES

EXISTING BIT. CONC. TO REMAIN

BITUMINOUS CONCRETE OR CONCRETE PAVING TO BE REMOVED

36"RCP SEWER

EXISTING SIDEWALK TO REMAIN

LOW

SAW CUT & PROTECT PAVEMENT TO REMAIN

RESIDENTIAL BUILDING

8" CI INV IN(INSIDE DROP)=125.

8" CI INV IN(INSIDE DROP)=120.5

24" BRK INV IN(W)=118.95

24" BRK INV OUT(E)=118.90

24"RCP

36"RCP SEWER

9" LOCUST

12" LOCUST

0 10 20 30 40 50 100

DEMOLITION LEGEND

SYM	DESCRIPTION
	CLEAR AND GRUB TOPSOIL TO BE STRIPPED AND STORED FOR REUSE
	REMOVE AND DISPOSE OF WALL AND / OR STAIRS
	BITUMINOUS CONCRETE OR CONCRETE PAVING TO BE REMOVED
	EXISTING BENCHES WITHIN PARK TO BE REMOVED, STORED, AND PROTECTED FOR REUSE UNLESS OTHERWISE NOTED, TYP
	REMOVE FENCE
	TREE PROTECTION FENCE
LOW	LIMIT OF WORK
	SAW CUT EXISTING PAVEMENT
X	TREE TO BE REMOVED, ROOTS GRUBBED PER SPEC

NOTE: SALVAGE AND STOCKPILE EXISTING HISTORIC LAMP POST FIXTURES FOR POSSIBLE REUSE, SEE LIGHTING PLAN.

DEMOLITION NOTES

1. Call DIGSAFE (1-888-344-7233) to locate existing utilities prior to any excavation. Protect existing utilities to remain throughout the construction process, and repair any damage done to these at no cost to the Owner. See Civil drawings for more information.
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5. Protect existing trees to remain throughout the construction process. No digging within 15 feet of the trunk of a tree without review of LA. Root prune any roots exposed from digging. No cutting of any support roots more than 3 inches in diameter without review by LA. Any tree roots exposed from digging more than 6 hours shall be covered in burlap and kept wet. No vehicular equipment or material storage allowed under dripline of existing trees. See specifications for additional tree protection requirements.
6. See civil plans for utility information and silt fence.
7. Existing lights to be removed and given to owner
8. Existing granite curb to be removed and stockpiled

STEPHEN STIMSON ASSOCIATES LANDSCAPE ARCHITECTS

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3			11		
2	02.18.15	100% DD SET	10		
1	12.11.14	95% DD CHECK SET	9		

PULASKI PARK
NORTHAMPTON , MA

SCALE 1"=10'-0"
DATE 02.18.2015
DRAWN BY GS, AD, SL, JF, NO
REVIEWED BY LS, SS

DESIGN DEVELOPMENT

SITE PREPARATION PLAN - SOUTH

L1.3

MAIN STREET

EDGE OF PAVEMENT

ACADEMY OF MUSIC

SOUTH STREET

MEMORIAL HALL

CONNECT ROOF DRAINS TO DRAINAGE SYSTEM (SEWER SEPARATION)

EXISTING SMH #1
RIM = 147.39
6" INV IN(N)=140.70
6" PVC INVS(2) IN(ENE,SE)=141.40
6" INV OUT(S)=140.60

CB #2
RIM=147.44
12" CMP INV IN(W)=142.09
12" CMP INV OUT(S)=141.94

CB #3
RIM=147.14
12" CMP INV IN(NE)=141.99
12" CMP INV OUT(S)=141.19

CB #6
RIM=146.92
12" AC INV IN(E) = 143.02
12" AC INV OUT(W)=142.32

CB #7
RIM=147.01
10"AC INV IN(E)=144.11
10" PVC INV OUT(S)=144.1

CB#5
RIM=146.74
12" CMP INV IN(E)=142.74
12" CMP INV OUT(W)=142.54

EXISTING SMH #2
RIM = 128.20
12" AC INV IN(N)=124.70
4" CI INV IN(E)=123.50
6" CI INV OUT(S)=122.65

EXISTING DMH #5
RIM = 145.84
12" RCP INV IN(NW)=140.64
12" RCP INV OUT(S)=140.54

EXISTING DMH #6
RIM = 146.10
12" CMP INV IN(NW)=140.60
12" CMP INV IN(SE)=140.50
12" CMP INV OUT(S)=140.40

EXISTING DMH #7
RIM = 145.95
12" RCP INV IN(NW)=140.75
12" RCP INV OUT(S)=140.65

EXISTING DMH #8
RIM = 145.84
12" RCP INV IN(NW)=140.64
12" RCP INV OUT(S)=140.54

EXISTING DMH #9
RIM = 145.84
12" RCP INV IN(NW)=140.64
12" RCP INV OUT(S)=140.54

EXISTING DMH #10
RIM = 145.84
12" RCP INV IN(NW)=140.64
12" RCP INV OUT(S)=140.54

EXISTING DMH

ACADEMY OF MUSIC

MEMORIAL HALL

SOUTH STREET

BOLLARD

CONNECT ROOF DRAINS TO DRAINAGE SYSTEM (SEWER SEPARATION)

EXISTING SMH #1
RIM = 147.39
6" INV IN(N)=140.70
6" PVC INVS(2) IN(ENE/E)=141.40
6" INV OUT(S)=140.60

CB #6
RIM=146.92
12" AC INV IN(E) =143.02
12" AC INV OUT(W)=142.32

CB #7
RIM=147.01
10"AC INV IN(E)=144.11
10" PVC INV OUT(

EXISTING SMH #2
RIM = 128.20
12" AC INV IN(N)=124.70
4" CI INV IN(E)=123.50
6" CI INV OUT(S)=122.65

MATCHLINE: PHASE 1 SEE NORTH PLAN

MATCHLINE: PHASE 1 SEE NORTH PLAN

GPS1

GPS3

RESIDENTIAL BUILDING

ROUND HOUSE

LAYOUT NOTES

1. Locate, protect, and maintain bench marks, monuments, control points, and project engineering reference points. Re-establish disturbed or destroyed items at Contractor's expense.
2. Examine the areas and conditions under which site work is performed. Report any discrepancies with the plan to the Landscape Architect. Do not proceed with the work until unsatisfactory conditions are corrected.
3. Report discrepancies in drawings or specifications to the Landscape Architect for clarifications and adjustments before commencing work. Any deviations or changes from these drawings without written acceptance of the Landscape Architect shall obsolve the Landscape Architect of any and all responsibility of said deviation and change.
4. Written dimensions take precedence over scaled dimensions.
5. Dimensions indicated on plans are for horizontal control and are accurate if measured on a level line. Measure horizontal control dimensions on a level line, not parallel with ground slope.
6. All dimensions taken from vertical surfaces, i.e. curbs & walls, are understood to be measured from the face of the vertical element unless otherwise specified.
7. All angles assumed to be 90° unless otherwise specified.

STEPHEN STIMSON ASSOCIATES LANDSCAPE ARCHITECTS

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PULASKI PARK
NORTHAMPTON , MA

SCALE 1"=10'-0"
DATE 02.18.2015
DRAWN BY GS, AD, SL, JF, ND
REVIEWED BY LS, SS

DESIGN DEVELOPMENT

LAYOUT PLAN - SOUTH

L2.1



ALTERNATES

1 **SITE LIGHT POSTS**
BASE BID: Philips Lumec MetroScape Head ,MPTR, Philips Lumec Pole ,RTA800 P60
DEDUCT ALT 1: Re-Use (9) existing light poles
DEDUCT ALT 2: Re-Use (9) existing light poles and fixtures. To be retrofitted with LED 2700W LAMPS

2 WOODLAND DG PATHS
BASE BID: Steel Edge
DEDUCT ALT: No steel edge

3 WOOD DECK AT PLAY+BRIDGE+STAGE AREA
BASE BID: Black Locust wood, 2X4 actual
DEDUCT ALT: Streetlife Streetdeck 40 composite decking in medium gray

4 CONCRETE CONTROL JOINTS
BASE BID: Sawcut joints
DEDUCT ALT: Tool joints

5 WEATHERING STEEL EDGE
BASE BID: ¼" thick A588 weathering steel
DEDUCT ALT: ½" thick A588 weathering steel

6 CONCRETE WALL FINISHES
BASE BID: Concrete wall with 4' wide x 8' long MDO plywood forms, 2" square tie hole pattern, hand rubbed finish on all exposed surfaces, razor finish all corners and edges, typ.
DEDUCT ALT: Hand rubbed finish only with ¾" eased corners and edges, typ.

7 PHASE 1 OVERLOOK WALKWAY AT TOP OF OVERLOOK
BASE BID: Concrete paving
DEDUCT ALT: Bituminous concrete

8 PHASE 2 OVERLOOK SWITCHBACK WALKWAY
BASE BID: Concrete paving
DEDUCT ALT: Bituminous concrete

9 GRANITE BENCHES AND RETAINING WALLS
BASE BID: All granite blocks to be salvaged granite from Upper Roberts Meadow Dam project, provided by City, coordinate quantity and storage with City DPW.
ADD ALT: Champlain Gray granite reclaimed blocks or accepted salvaged equal. Source: Old New England Granite, contact Biz Reed 781-334-4805

10 URBAN LOUNGE
BASE BID: Dry-laid salvaged monolithic granite blocks hand tight sawn joints, thermal finish on top, existing salvaged finish on exposed faces.
ADD ALT: Poured-in-place concrete with hand rubbed finish on seated surface and all exposed sides

11 WOOD BENCHES ON GRANITE BLOCKS
BASE BID: White Oak on granite blocks (provided by City)
ADD ALT: Black Locust on granite blocks (provided by City)

12 BLACK LOCUST LOG STACK
BASE BID: Black Locust provided by City
ALTERNATE: White Oak provided by the City

13 BICYCLE RACKS
BASE BID: Galvi U bike racks individually bolted to concrete base
DEDUCT ALT: Galvi U bike racks on rails pinned with stakes under decomposed granite

14 POLES AT STRING LIGHTS AT PLAZA AND ROUND HOUSE
BASE BID: TEKA poles, see drawings
DEDUCT ALT: Galvanized tubular steel, 4X4X18' length with 4' set into concrete sonotube to frost

15 PARK SIGN AT MAIN STREET PLAZA
BASE BID: 10"H stainless steel letters, brushed finish, ½"TH mounted to ¾"TH A588 weathering steel, see drawing
DEDUCT ALT: 10"H A588 weathering steel letters laser cut with bottoms welded to 4X4" galvanized tubular steel (similar to a freestanding ranch letter sign)

MATERIALS LEGEND

SYM	DESCRIPTION	DTL
PAVING & EDGING		
BC	BITUMINOUS CONCRETE	1 L8.0
CP	CONCRETE PAVEMENT	2 L8.0
CS	CUSHIONED SURFACE THE FIBAR GROUP LLC www.fibar.com	8 L8.0
DG	STABILIZED DECOMPOSED GRANITE STABILIZER SOLUTIONS WWW.STABILIZERSOLUTIONS.COM	6 L8.0
FC	FLUSH GRANITE CURB	10 L8.0
LE	WEATHERING STEEL EDGE AT LAWN A588 Weathering Steel	12 L8.0
RC	RAISED GRANITE CURB	9 L8.0
ME	MAINTENANCE EDGE	16 L8.0
ED	RIVERSTONE EDGE	17 L8.0
SE	STEEL EDGE Boarder King Steel or accepted equal	11 L8.0
UP	PERVIOUS UNIT PAVERS Geneal Stormwater Brick	5 L8.0
WS	WEATHERING STEEL EDGE A588 Weathering Steel Edge Tack	2 L8.2
WALLS, STEPS & AMENITIES		
BT	BIERGARTEN TABLE AND CHAIRS Beer Garden Furniture LLC. Item # BT001 www.biergartenfurniture.net INCLUDE SECURITY CHAIN AND LOCK MECHANISM	9 L8.1
	BIKE RACKS Creative Pipe, Inc. Inverted U. www.creativepipe.com	8 L8.1
BR	BIKE WHEEL RAMP www.cyclenop.com	16 L8.1
LS	BLACK LOCUST LOG STACK	5 L8.1
CW	CONCRETE RETAINING WALL	15 L8.1
CS	CAUTION SIGN	6 L8.1
SC	CONCRETE STEPS	1 L8.1
GB	SALVAGED GRANITE BENCH All granite blocks to be salvaged granite from Upper Roberts Meadow Dam Project, coordinate material sourcing, quantity, and storage with city DPW	19 L8.1
WC	WOOD BACK AT GRANITE BENCH	2 L8.1
GW	SALVAGED GRANITE WALL All granite blocks to be salvaged granite from Upper Roberts Meadow Dam Project, coordinate material sourcing, quantity, and storage with city DPW	7 L8.1
HR	HAND RAIL	12/13 L8.2
H1 H2	HEADWALL NORTH (H1) SOUTH (H2)	13 L8.1
MF	MOVABLE FURNITURE Fermob Bistro Tables and Chairs Cafe Set. Multi-colored www.fermob.com/en	21 L8.1
SS	STUMP STEPPERS Contractor to Coordinate final wood selection with LA and City DPW, suggested species: Black Locust and White Oak	10 L8.1
DF	DRINKING FOUNTAIN	17 / 18 L8.1
TR	TRASH RECEPTACLE	13-14 L8.0
PL	PLANTER BOXES	14 L8.1
UL	URBAN LOUNGE All granite blocks to be salvaged granite from Upper Roberts Meadow Dam Project, coordinate material sourcing, quantity, and storage with city DPW	
WD	WOOD DECK	
GS	GOSHEN STONE SLAB AT PLAY AREA	
	RELOCATED MEMORIALS	
BIOSWALE, WATER FEATURES & VEGETATION		
BI	BIOSWALE	1 L8.2
BB	MONOLITHIC GOSHEN BLOCK AT BIOSWALE	
GF	GRATE & FLOW-THROUGH CURB MONOHOLS 2"W" CLOSE MESH BAR GRATE, PLAIN STEEL	8-11 L8.2
HB	HOSE BIB / QUICK COUPLER SEE IRRIGATION DRAWINGS	
IS	INTERPRETIVE SIGN	14 L8.2
WB	WOOD BRIDGE	4 L8.2
WF	WATER FEATURE	7 L8.2
WS	WOOD STAGE	3 L8.2
L	LAWN, SEE PLANTING PLAN	
PA	PLANTING AREA, SEE PLANTING PLAN	

STEPHEN STIMSON ASSOCIATES LANDSCAPE ARCHITECTS
288 NORFOLK STREET CAMBRIDGE MA 02139 T 617 876 8960 F 617 876 8906
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WWW.STEPHENSTIMSON.COM

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P 617 338 0063

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PULASKI PARK
NORTHAMPTON . MA

SCALE 1"=10'-0"
DATE 02.18.2015
DRAWN BY GS, AD, SL, JF, ND
REVIEWED BY LS, SS

DESIGN DEVELOPMENT

MATERIALS PLAN - NORTH

L3.0

FOUNDATION EXPOSED DURING EXCAVATION TO BE WATERPROOFED AS NECESSARY, TYP. TAKE CAUTION WITH POTENTIAL WINDOW OPENINGS SUB-GRADE.

ACADEMY OF MUSIC

REMOUNT EXISTING TIME CAPSULE PLAQUE TO FACE OF WALL

CURB CUT TO BE REPLACED WITH RAISED GRANITE CURB

EX. TRANSFORMER TO REMAIN

BIKE RACKS (9)

MATCHLINE, PHASE 1 SEE NORTH PLAN

MATCHLINE, PHASE 1 SEE NORTH PLAN

INSTALL 24" HDPE DRAIN LINE (SEE SEPARATION)

ABANDON/REMOVE EXISTING PIPES

RELOCATED MEMORIAL

CONNECT ROOF DRAINS TO DRAINAGE SYSTEM (SEWER SEPARATION)

EXISTING PAVEMENT TO REMAIN AND BE PATCHED AS NECESSARY. PATH TO BE KEPT OPEN DURING CONSTRUCTION

OUTLOOK WALK
SEE ALTERNATE #7

MATCHLINE, PHASE 1 SEE NORTH PLAN

VEHICULAR BITUMINOUS CONCRETE BY CIVIL

MOVEABLE TABLES & CHAIRS

RAISED CURB BY CIVIL

TRANSITION CURB BY CIVIL

RAISED CURB BY CIVIL

PARKING SURFACE & STRIPING BY CIVIL

TRANSITION CURB BY CIVIL

RESIDENTIAL BUILDING

SOUTH STREET

ALTERNATES

1 **SITE LIGHT POSTS**
BASE BID: Philips Lumec MetroScape Head -MPTR, Philips Lumec Pole -RTA800 P60
DEDUCT ALT 1: Re-Use (9) existing light poles
DEDUCT ALT 2: Re-Use (9) existing light poles and fixtures. To be retrofitted with LED 2700W LAMPS

2 WOODLAND DG PATHS
BASE BID: Steel Edge
DEDUCT ALT: No steel edge

3 WOOD DECK AT PLAY+BRDGE+STAGE AREA
BASE BID: Black Locust wood, 2X4 actual
DEDUCT ALT: Streetlife Streetdeck 40 composite decking in medium gray

4 CONCRETE CONTROL JOINTS
BASE BID: Sawcut joints
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WALLS, STEPS & AMENITIES		
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	BIKE RACKS Creative Pipe, Inc. Inverted U. www.creativepipe.com	8 L8.1
BR	BIKE WHEEL RAMP www.cyclekroop.com	16 L8.1
LS	BLACK LOCUST LOG STACK	5 L8.1
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1	12.11.14	95% DD CHECK SET
2	02.18.15	100% DD SET
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16		

PULASKI PARK
NORTHAMPTON , MA

SCALE 1"=10'-0"
DATE 02.18.2015
DRAWN BY GS, AG, SL, JF, NO
REVIEWED BY LS, SS

DESIGN DEVELOPMENT

MATERIALS PLAN - SOUTH

L3.1



GRADING LEGEND

SYM	DESCRIPTION
148	EXISTING CONTOUR
132	PROPOSED CONTOUR MINOR
135	PROPOSED CONTOUR MAJOR
	GRADE BREAK
(+104.0)	EXISTING SPOT GRADE
+104.0	PROPOSED SPOT GRADE
2.0%	PROPOSED SLOPE
+TW	TOP OF WALL
+BW	BOTTOM OF WALL
+TS	TOP OF STEP
+BS	BOTTOM OF STEP
+HP	HIGH POINT
+LP	LOW POINT

GRADING NOTES

1. Install staked haybale siltation fence at edge of proposed grading as shown. Maintain haybale fence in good condition throughout project.
2. The locations of utilities shown on the plan are approximate. The contractor shall call Dig-Safe to verify the precise location of all utilities on-site before initiating demolition activities and protect existing utilities throughout construction. Any utilities damaged by construction activities will be repaired by the contractor at no cost to the owner.
3. Provide samples of materials proposed for use for the review of the Landscape Architect, including fill, topsoil, planting soil, and pavements. Suitable excavated materials removed to accommodate new construction may be used as fill material subject to the approval of the Landscape Architect. Soil test reports for topsoil shall be provided by the contractor through the University of Massachusetts soil testing laboratory.
4. Promptly notify the Landscape Architect of unexpected sub-surface conditions. Contractor to set grade stakes showing lines and elevations for review and approval by the Landscape Architect prior to rough grading.
5. Perform grading within contract Limits of Construction, including adjacent transition areas, to new elevations, levels, profiles, and contours indicated. Provide subgrade surfaces parallel to finished surface grades. Provide uniform levels and slopes between new elevations and existing grades. Grade surfaces to assure areas drain away from structures and to prevent ponding and pockets of surface drainage.
6. Topsoil to be installed shall be natural, friable, fertile soil characteristic of productive soil in the vicinity, reasonably free of stones, clay lumps, roots, and other foreign matter. Do not use muddy topsoil. Place during dry weather. Allow for 6" average depth of topsoil screened for lawn areas, and 12" depth at planting areas, except as otherwise indicated on the drawings.
7. Fine grade topsoil eliminating rough and low areas to ensure positive drainage. Maintain levels, profiles, and contours of subgrades.
8. Protect finish graded areas from traffic and erosion. Keep free of trash and debris. Repair and re-establish grades in settled,eroded, and damaged areas. Where completed areas are disturbed by construction operations or adverse weather, scarify, re-shape, and compact to required density.
9. Upon completion of earthwork operation, clean areas within contract limits, remove tools, and equipment. Provide site clear, clean, free of debris, and suitable for further site work operations.

STEPHEN STIMSON ASSOCIATES LANDSCAPE ARCHITECTS

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PULASKI PARK
NORTHAMPTON . MA

SCALE	1"=10'-0"
DATE	02.18.2015
DRAWN BY	GS, AD, SL, JF, ND
REVIEWED BY	LS, SS

DESIGN DEVELOPMENT

GRADING AND UTILITIESPLAN NORTH

L4.0

GRADING LEGEND

SYM	DESCRIPTION
145	EXISTING CONTOUR
132	PROPOSED CONTOUR MINOR
135	PROPOSED CONTOUR MAJOR
	GRADE BREAK
(+104.0)	EXISTING SPOT GRADE
+104.0	PROPOSED SPOT GRADE
2.0%	PROPOSED SLOPE
+TW	TOP OF WALL
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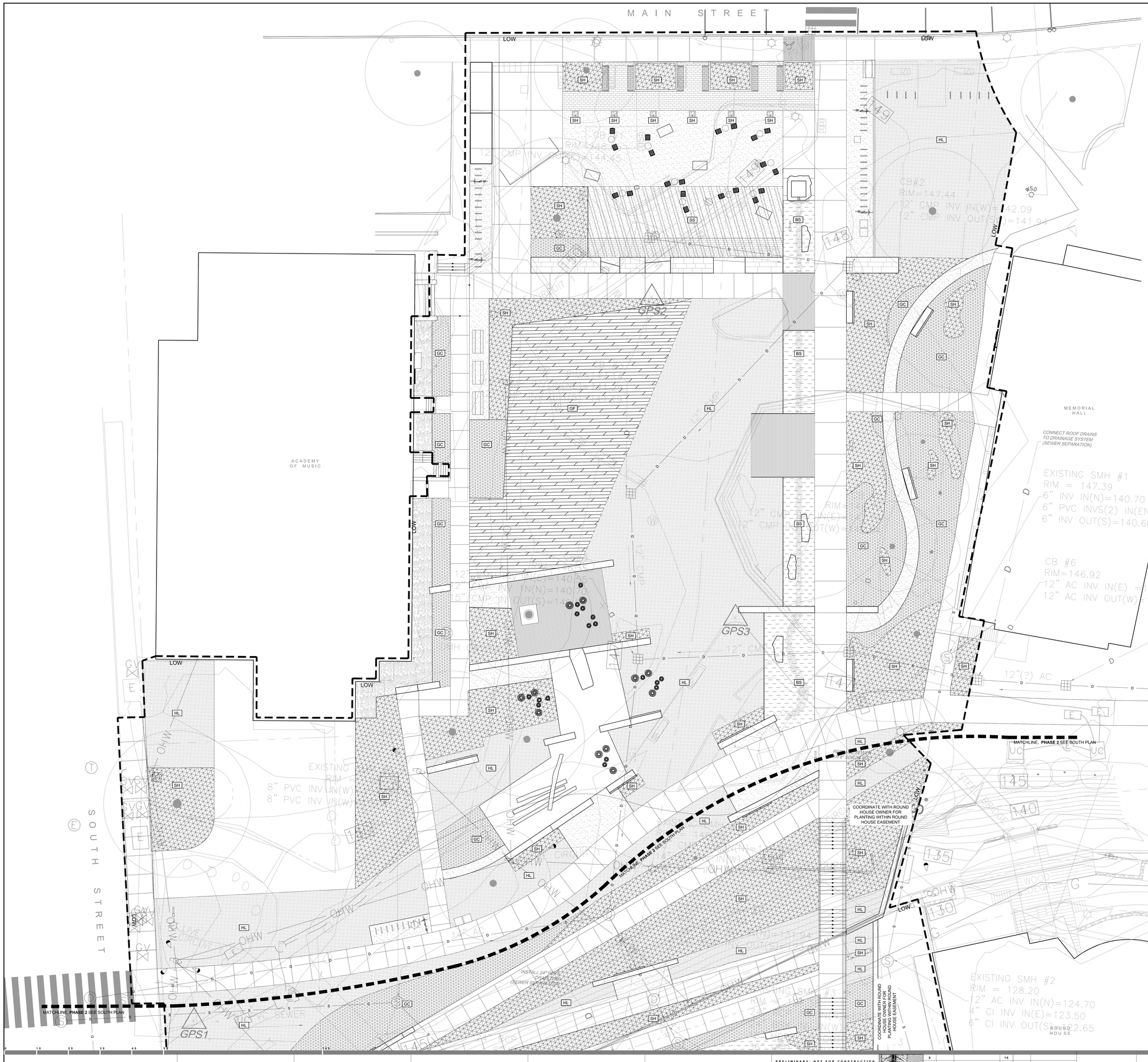
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DATE	02.18.2015
DRAWN BY	GS, AD, SL, JF, NO
REVIEWED BY	LS, SS

DESIGN DEVELOPMENT

GRADING PLAN SOUTH | **L4.1**



GENERAL PLANTING PREPARATION NOTES

A. OBSTRUCTIONS: NOTIFY OWNER'S REPRESENTATIVE IF UNEXPECTED ROCK OR OBSTRUCTIONS DETRIMENTAL TO TREES OR SHRUBS ARE ENCOUNTERED IN EXCAVATIONS.

1. HARDPAN LAYER: DRILL 6-INCH- (150-MM-) DIAMETER HOLES INTO FREE-DRAINING STRATA OR TO A DEPTH OF 10 FEET (3 M), WHICHEVER IS LESS, AND BACKFILL WITH FREE-DRAINING MATERIAL.

B. DRAINAGE AT TREE PITS, PLANTING BED AND LAWN
CHECK DRAINAGE AT TREE PITS PRIOR TO PLANTING, BY PERFORMING PERCOLATION TESTS (IN DRY WEATHER) AS FOLLOWS:

1. DIG OUT 1' X1'X1' PLANTING HOLE TO REQUIRED DEPTH AND FILL HOLE HALF FULL OF WATER. MARK WATER LEVEL WITH STAKE.
2. WATER LEVEL SHOULD DECREASE BY A MINIMUM OF TWO (2) INCHES PER HOUR.
3. IF WATER DOES NOT DRAIN ADEQUATELY FROM PLANT PITS, AMEND CONDITIONS AT TREE PITS AND PLANTING BEDS AS REQUIRED FOR SATISFACTORY DRAINAGE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHAT MEASURES MAY BE NEEDED TO ASSURE ADEQUATE DRAINAGE INCLUDING:
   a. REMOVAL OF UNSUITABLE MATERIAL.
   b. PROVISION OF DRAINAGE GRAVEL OR EXTRA PLANTING SOIL MIXES.
   c. ADDITION OF DRAINAGE PIPING OR OTHER MATERIALS.
4. OBTAIN APPROVAL OF OWNER'S REPRESENTATIVE FOR PROPOSED AMENDMENTS.
5. DO NOT INSTALL PLANTS UNTIL DRAINAGE CONDITIONS ARE APPROVED BY THE OWNER'S REPRESENTATIVE.

C. PLANTING TREES AND SHRUBS

1. SET BALLED AND BURLAPPED STOCK PLUMB AND IN CENTER OF PIT OR TRENCH WITH TOP OF BALL RAISED ABOVE ADJACENT FINISH GRADES AS INDICATED.

2. PLACE STOCK ON SETTING LAYER OF COMPACTED PLANTING SOIL.

3. REMOVE BURLAP FROM TOPS OF BALLS AND A MINIMUM OF 12 INCHES DOWN FROM THE SIDES, BUT DO NOT REMOVE FROM UNDER BALLS. REMOVE WIRE BASKETS ENTIRELY. REMOVE PALLETS, IF ANY, BEFORE SETTING. DO NOT USE PLANTING STOCK IF BALL IS CRACKED OR BROKEN BEFORE OR DURING PLANTING OPERATION.

4.PLACE BACKFILL AROUND BALL IN LAYERS, TAMPING TO SETTLE BACKFILL AND ELIMINATE VOIDS AND AIR POCKETS. WHEN PIT IS APPROXIMATELY 1/2 BACKFILLED, WATER THOROUGHLY BEFORE PLACING REMAINDER OF BACKFILL. REPEAT WATERING UNTIL NO MORE IS ABSORBED. WATER AGAIN AFTER PLACING AND TAMPING FINAL LAYER OF BACKFILL.

D. SET CONTAINER-GROWN STOCK PLUMB AND IN CENTER OF PIT OR TRENCH WITH TOP OF BALL RAISED ABOVE ADJACENT FINISH GRADES AS INDICATED.

1. CAREFULLY REMOVE CONTAINERS SO AS NOT TO DAMAGE ROOT BALLS.
2. PLACE STOCK ON SETTING LAYER OF COMPACTED PLANTING SOIL.
3. PLACE BACKFILL AROUND BALL IN LAYERS, TAMPING TO SETTLE BACKFILL AND ELIMINATE VOIDS AND AIR POCKETS. WHEN PIT IS APPROXIMATELY 1/2 BACKFILLED, WATER THOROUGHLY BEFORE PLACING REMAINDER OF BACKFILL. REPEAT WATERING UNTIL NO MORE IS ABSORBED. WATER AGAIN AFTER PLACING AND TAMPING FINAL LAYER OF BACKFILL.

E. DISH AND TAMP TOP OF BACKFILL TO FORM A 3-INCH HIGH MOUND AROUND THE RIM OF THE PIT. DO NOT COVER TOP OF ROOT BALL WITH BACKFILL.

NOTE: LANDSCAPE ARCHITECT TO FIELD VERIFY EXISTING VEGETATION AT PERIMETER OF LIMIT OF WORK TO REMAIN AND BE PROTECTED DURING CONSTRUCTION

SOILS LEGEND & PREPARATION NOTES

TYPE A: TREE PLANTING AREA- NOT SHOWN IN PLAN, ASSUME SOIL AT PROPOSED TREES
EXCAVATE TO ENTIRE AREA TO 36" MINUS FG. IMMEDIATELY PRIOR TO PLACING PLANTING SOILS THE ENTIRE SUBGRADE AREA SHALL BE LOOSENED TO A MINIMUM OF 12" UTILIZING THE TEETH OF A BACKHOE OR OTHER SUITABLE EQUIPMENT. COMPACT THE SCARIFIED SUBBASE TO 86-88% COMPACTION. SPREAD ENRICHED SUBSOIL (AS SPECIFIED BELOW) IN NO GREATER THAN 8" LIFTS AND COMPACT TO 82-85% MAX DRY DENSITY. THE SURFACE AREA OF EACH LIFT SHALL BE SCARIFIED BY RAKING PRIOR TO NEXT LIFT. SPREAD PLANTING MEDIUM (AS SPECIFIED BELOW) WITH WIDE TRACK BULLDOZER SIZE D-5 OR SMALLER OR IT MAY BE DUMPED AND SPREAD WITH A BUCKET OF A BACKHOE OR EQUIVALENT. THE CENTRAL PORTION OF THE PIT SHALL BE COMPRESSED ADEQUATELY TO SUPPORT THE ROOTBALL AND PREVENT SETTLING.

AMENDED SOIL: 12" DEEP PLANTING MEDIUM
24" DEEP HORTICULTURAL SUBSOIL

TYPE B: SHRUB PLANTING AREA (SH)
EXCAVATE TO ENTIRE AREA TO 18" MINUS FG. IMMEDIATELY PRIOR TO PLACING PLANTING SOILS THE ENTIRE SUBGRADE AREA SHALL BE LOOSENED TO A MINIMUM OF 12" UTILIZING THE TEETH OF A BACKHOE OR OTHER SUITABLE EQUIPMENT. COMPACT THE SCARIFIED SUBBASE TO 86-88% COMPACTION. SPREAD ENRICHED SUBSOIL (AS SPECIFIED BELOW) IN NO GREATER THAN 8" LIFTS AND COMPACT TO 82-85% MAX DRY DENSITY. THE SURFACE AREA OF EACH LIFT SHALL BE SCARIFIED BY RAKING PRIOR TO NEXT LIFT. SPREAD PLANTING MEDIUM (AS SPECIFIED BELOW) WITH WIDE TRACK BULLDOZER SIZE D-5 OR SMALLER OR IT MAY BE DUMPED AND SPREAD WITH A BUCKET OF A BACKHOE OR EQUIVALENT.

AMENDED SOIL: 12" DEEP PLANTING MEDIUM
6" DEEP HORTICULTURAL SUBSOIL

TYPE C: GROUNDCOVER (GC)
EXCAVATE TO ENTIRE AREA TO 10" MINUS FG. IMMEDIATELY PRIOR TO PLACING PLANTING SOILS THE ENTIRE SUBGRADE AREA SHALL BE LOOSENED TO A MINIMUM OF 12" UTILIZING THE TEETH OF A BACKHOE OR OTHER SUITABLE EQUIPMENT. COMPACT THE SCARIFIED SUBBASE TO 86-88% COMPACTION. SPREAD ENRICHED SUBSOIL (AS SPECIFIED BELOW) IN NO GREATER THAN 8" LIFTS AND COMPACT TO 82-85% MAX DRY DENSITY. THE SURFACE AREA OF EACH LIFT SHALL BE SCARIFIED BY RAKING PRIOR TO NEXT LIFT. SPREAD PLANTING MEDIUM (AS SPECIFIED BELOW) WITH WIDE TRACK BULLDOZER SIZE D-5 OR SMALLER OR IT MAY BE DUMPED AND SPREAD WITH A BUCKET OF A BACKHOE OR EQUIVALENT.

AMENDED SOIL: 10" DEEP PLANTING MEDIUM

TYPE D: BIOSWALE SOIL (BS)
EXCAVATE TO ENTIRE AREA TO 12" MINUS FG. IMMEDIATELY PRIOR TO PLACING PLANTING SOILS THE ENTIRE SUBGRADE AREA SHALL BE LOOSENED TO A MINIMUM OF 12" UTILIZING THE TEETH OF A BACKHOE OR OTHER SUITABLE EQUIPMENT. COMPACT THE SCARIFIED SUBBASE TO 86-88% COMPACTION. SPREAD ENRICHED SUBSOIL (AS SPECIFIED BELOW) IN NO GREATER THAN 8" LIFTS AND COMPACT TO 82-85% MAX DRY DENSITY. THE SURFACE AREA OF EACH LIFT SHALL BE SCARIFIED BY RAKING PRIOR TO NEXT LIFT. SPREAD PLANTING MEDIUM (AS SPECIFIED BELOW) WITH WIDE TRACK BULLDOZER SIZE D-5 OR SMALLER OR IT MAY BE DUMPED AND SPREAD WITH A BUCKET OF A BACKHOE OR EQUIVALENT.

AMENDED SOIL: 12" DEEP PLANTING MEDIUM

TYPE E: LAWN AREA (HL)
EXCAVATE TO ENTIRE AREA TO 8" MINUS FG. IMMEDIATELY PRIOR TO PLACING PLANTING SOILS THE ENTIRE SUBGRADE AREA SHALL BE LOOSENED TO A MINIMUM OF 12" UTILIZING THE TEETH OF A BACKHOE OR OTHER SUITABLE EQUIPMENT. COMPACT THE SCARIFIED SUBBASE TO 86-88% COMPACTION.
PLANTING MEDIUM (AS SPECIFIED BELOW) WITH WIDE TRACK BULLDOZER SIZE D-5 OR SMALLER COMPRESS WITH A MINIMUM OF TWO PASSES TO A DENSITY OF 86-88% MAX DRY DENSITY. NO VIBRATORY COMPACTION OF SUBGRADE OR PLANTING MEDIUM SHALL TAKE PLACE. NO RUBBER TIRED EQUIPMENT OR HEAVY EQUIPMENT EXCEPT SMALL BULLDOZER SHALL PASS OVER SOILS AFTER THEY HAVE BEEN LOOSENED OR PLANTING MEDIUM IS SPREAD.

AMENDED SOIL: 8" DEEP PLANTING MEDIUM

NOTE: PLACE AND SPREAD PLANTING MIXTURE TO A DEPTH GREATER THAN REQUIRED TO ACCOUNT FOR SETTLING.
REMOVE STIFF CLODS, LUMPS, BRUSH, ROOTS, STUMPS, LITTER, AND OTHER FOREIGN MATERIAL AND STONES GREATER THAN 1" DIAMETER

NOTE: CONTRACTOR TO UTILIZE EXISTING ON SITE STOCKPILED SOIL TO THE FULLEST EXTENT. SUBMIT SAMPLES FOR STANDARD SOIL TEST WITH ORGANIC CONTENT TO UMASS TESTING AGENCY FOR EACH TYPE OF PLANTING. AMEND WITH AGED LEAF COMPOST AS REQUIRED TO BALANCE ORGANIC CONTENT.

TYPE F: GEOFIBER STABILIZED HIGH USE LAWN AREA (GF)
EXCAVATE TO ENTIRE AREA TO 12" MINUS FG. IMMEDIATELY PRIOR TO PLACING PLANTING SOILS THE ENTIRE SUBGRADE AREA SHALL BE LOOSENED TO A MINIMUM OF 12" UTILIZING THE TEETH OF A BACKHOE OR OTHER SUITABLE EQUIPMENT. COMPACT THE SCARIFIED SUBBASE TO 86-88% COMPACTION.

SPREAD ENRICHED SUBSOIL (AS SPECIFIED BELOW) IN NO GREATER THAN 8" LIFT AND COMPACT TO 82-85% MAX DRY DENSITY. THE SURFACE AREA OF EACH LIFT SHALL BE SCARIFIED BY RAKING PRIOR TO NEXT LIFT. SPREAD PLANTING MEDIUM (AS SPECIFIED BELOW) WITH WIDE TRACK BULLDOZER SIZE D-5 OR SMALLER OR IT MAY BE DUMPED AND SPREAD WITH A BUCKET OF A BACKHOE OR EQUIVALENT. THE CENTRAL PORTION OF THE PIT SHALL BE COMPRESSED ADEQUATELY TO SUPPORT THE ROOTBALL AND PREVENT SETTLING.

AMENDED SOIL: 12" DEEP PLANTING MEDIUM

NOTE: PLACE AND SPREAD PLANTING MIXTURE TO A DEPTH GREATER THAN REQUIRED TO ACCOUNT FOR SETTLING.
REMOVE STIFF CLODS, LUMPS, BRUSH, ROOTS, STUMPS, LITTER, AND OTHER FOREIGN MATERIAL AND STONES GREATER THAN 1" DIAMETER

NOTE: CONTRACTOR TO UTILIZE EXISTING ON SITE STOCKPILED SOIL TO THE FULLEST EXTENT. SUBMIT SAMPLES FOR STANDARD SOIL TEST WITH ORGANIC CONTENT TO UMASS TESTING AGENCY FOR EACH TYPE OF PLANTING. AMEND WITH AGED LEAF COMPOST AS REQUIRED TO BALANCE ORGANIC CONTENT.

TYPE G: SAND BASED STRUCTURAL SOIL (SS)
EXCAVATE TO ENTIRE AREA TO 2'-9" MINUS FG. IMMEDIATELY PRIOR TO PLACING PLANTING SOILS THE ENTIRE SUBGRADE AREA SHALL BE LOOSENED TO A MINIMUM OF 12" UTILIZING THE TEETH OF A BACKHOE OR OTHER SUITABLE EQUIPMENT. COMPACT THE SCARIFIED SUBBASE TO 86-88% COMPACTION.

SPREAD ENRICHED SUBSOIL (AS SPECIFIED BELOW) IN NO GREATER THAN 8" LIFT AND COMPACT TO 82-85% MAX DRY DENSITY. THE SURFACE AREA OF EACH LIFT SHALL BE SCARIFIED BY RAKING PRIOR TO NEXT LIFT. SPREAD PLANTING MEDIUM (AS SPECIFIED BELOW) WITH WIDE TRACK BULLDOZER SIZE D-5 OR SMALLER OR IT MAY BE DUMPED AND SPREAD WITH A BUCKET OF A BACKHOE OR EQUIVALENT. THE CENTRAL PORTION OF THE PIT SHALL BE COMPRESSED ADEQUATELY TO SUPPORT THE ROOTBALL AND PREVENT SETTLING.

AMENDED SOIL: 2'-6" DEEP PLANTING MEDIUM

NOTE: PLACE AND SPREAD PLANTING MIXTURE TO A DEPTH GREATER THAN REQUIRED TO ACCOUNT FOR SETTLING.
REMOVE STIFF CLODS, LUMPS, BRUSH, ROOTS, STUMPS, LITTER, AND OTHER FOREIGN MATERIAL AND STONES GREATER THAN 1" DIAMETER

NOTE: CONTRACTOR TO UTILIZE EXISTING ON SITE STOCKPILED SOIL TO THE FULLEST EXTENT. SUBMIT SAMPLES FOR STANDARD SOIL TEST WITH ORGANIC CONTENT TO UMASS TESTING AGENCY FOR EACH TYPE OF PLANTING. AMEND WITH AGED LEAF COMPOST AS REQUIRED TO BALANCE ORGANIC CONTENT.

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ISSUE	DATE	DESCRIPTION	ISSUE	DATE	DESCRIPTION
8			16		
7			15		
6			14		
5			13		
4			12		
3			11		
2	02.16.15	100% DD SET	10		
1	12.11.14	95% DD CHECK SET	9		

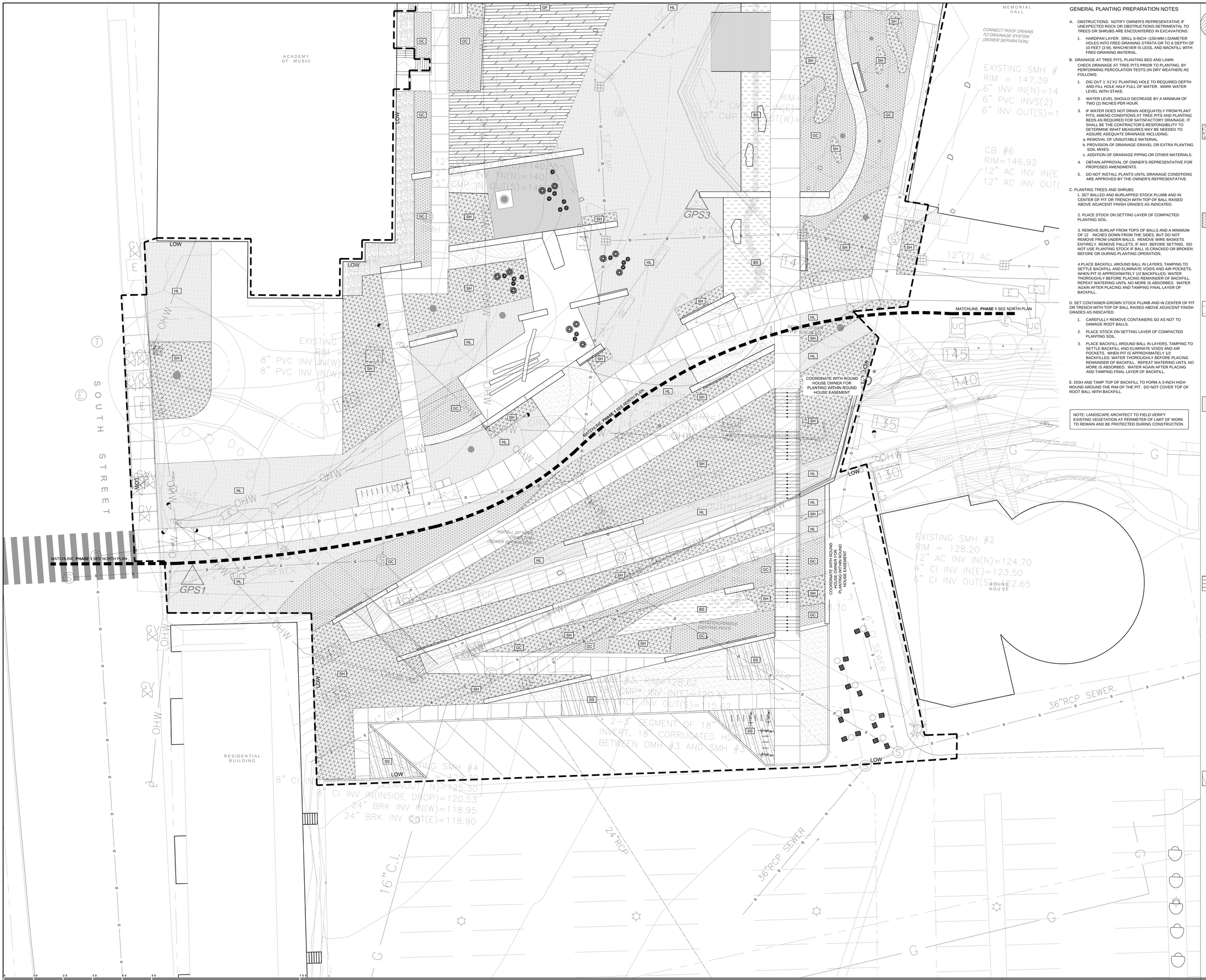
PULASKI PARK
NORTHAMPTON , MA

SCALE 1"=10'-0"
DATE 02.16.2015
DRAWN BY GS, AD, SL, JF, NO
REVIEWED BY LS, SS

DESIGN DEVELOPMENT

SOILS PLAN - NORTH

L5.0



GENERAL PLANTING PREPARATION NOTES

A. OBSTRUCTIONS: NOTIFY OWNER'S REPRESENTATIVE IF UNEXPECTED ROCK OR OBSTRUCTIONS DETRIMENTAL TO TREES OR SHRUBS ARE ENCOUNTERED IN EXCAVATIONS.

1. HARDPAN LAYER: DRILL 6-INCH- (150-MM-) DIAMETER HOLES INTO FREE-DRAINING STRATA OR TO A DEPTH OF 10 FEET (3 M), WHICHEVER IS LESS, AND BACKFILL WITH FREE-DRAINING MATERIAL.

B. DRAINAGE AT TREE PITS, PLANTING BED AND LAWN
CHECK DRAINAGE AT TREE PITS PRIOR TO PLANTING, BY PERFORMING PERCOLATION TESTS (IN DRY WEATHER) AS FOLLOWS:

1. DIG OUT 1' X1'X1' PLANTING HOLE TO REQUIRED DEPTH AND FILL HOLE HALF FULL OF WATER. MARK WATER LEVEL WITH STAKE.
2. WATER LEVEL SHOULD DECREASE BY A MINIMUM OF TWO (2) INCHES PER HOUR.
3. IF WATER DOES NOT DRAIN ADEQUATELY FROM PLANT PITS, AMEND CONDITIONS AT TREE PITS AND PLANTING BEDS AS REQUIRED FOR SATISFACTORY DRAINAGE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHAT MEASURES MAY BE NEEDED TO ASSURE ADEQUATE DRAINAGE INCLUDING:
   a. REMOVAL OF UNSUITABLE MATERIAL.
   b. PROVISION OF DRAINAGE GRAVEL OR EXTRA PLANTING SOIL MIXES.
   c. ADDITION OF DRAINAGE PIPING OR OTHER MATERIALS.
4. OBTAIN APPROVAL OF OWNER'S REPRESENTATIVE FOR PROPOSED AMENDMENTS.
5. DO NOT INSTALL PLANTS UNTIL DRAINAGE CONDITIONS ARE APPROVED BY THE OWNER'S REPRESENTATIVE.

C. PLANTING TREES AND SHRUBS
1. SET BALLED AND BURLAPPED STOCK PLUMB AND IN CENTER OF PIT OR TRENCH WITH TOP OF BALL RAISED ABOVE ADJACENT FINISH GRADES AS INDICATED.

2. PLACE STOCK ON SETTING LAYER OF COMPACTED PLANTING SOIL.

3. REMOVE BURLAP FROM TOPS OF BALLS AND A MINIMUM OF 12 INCHES DOWN FROM THE SIDES, BUT DO NOT REMOVE FROM UNDER BALLS. REMOVE WIRE BASKETS ENTIRELY. REMOVE PALLETS, IF ANY, BEFORE SETTING. DO NOT USE PLANTING STOCK IF BALL IS CRACKED OR BROKEN BEFORE OR DURING PLANTING OPERATION.

4.PLACE BACKFILL AROUND BALL IN LAYERS, TAMPING TO SETTLE BACKFILL AND ELIMINATE VOIDS AND AIR POCKETS. WHEN PIT IS APPROXIMATELY 1/2 BACKFILLED, WATER THOROUGHLY BEFORE PLACING REMAINDER OF BACKFILL. REPEAT WATERING UNTIL NO MORE IS ABSORBED. WATER AGAIN AFTER PLACING AND TAMPING FINAL LAYER OF BACKFILL.

D. SET CONTAINER-GROWN STOCK PLUMB AND IN CENTER OF PIT OR TRENCH WITH TOP OF BALL RAISED ABOVE ADJACENT FINISH GRADES AS INDICATED.

1. CAREFULLY REMOVE CONTAINERS SO AS NOT TO DAMAGE ROOT BALLS.
2. PLACE STOCK ON SETTING LAYER OF COMPACTED PLANTING SOIL.
3. PLACE BACKFILL AROUND BALL IN LAYERS, TAMPING TO SETTLE BACKFILL AND ELIMINATE VOIDS AND AIR POCKETS. WHEN PIT IS APPROXIMATELY 1/2 BACKFILLED, WATER THOROUGHLY BEFORE PLACING REMAINDER OF BACKFILL. REPEAT WATERING UNTIL NO MORE IS ABSORBED. WATER AGAIN AFTER PLACING AND TAMPING FINAL LAYER OF BACKFILL.

E. DISH AND TAMP TOP OF BACKFILL TO FORM A 3-INCH HIGH MOUND AROUND THE RIM OF THE PIT. DO NOT COVER TOP OF ROOT BALL WITH BACKFILL.

NOTE: LANDSCAPE ARCHITECT TO FIELD VERIFY EXISTING VEGETATION AT PERIMETER OF LIMIT OF WORK TO REMAIN AND BE PROTECTED DURING CONSTRUCTION

SOILS LEGEND & PREPARATION NOTES

TYPE A: TREE PLANTING AREA- NOT SHOWN IN PLAN, ASSUME SOIL AT PROPOSED TREES
EXCAVATE TO ENTIRE AREA TO 36" MINUS FG. IMMEDIATELY PRIOR TO PLACING PLANTING SOILS THE ENTIRE SUBGRADE AREA SHALL BE LOOSENED TO A MINIMUM OF 12" UTILIZING THE TEETH OF A BACKHOE OR OTHER SUITABLE EQUIPMENT. COMPACT THE SCARIFIED SUBBASE TO 86-88% COMPACTION. SPREAD ENRICHED SUBSOIL (AS SPECIFIED BELOW) IN NO GREATER THAN 8" LIFTS AND COMPACT TO 82-85% MAX DRY DENSITY. THE SURFACE AREA OF EACH LIFT SHALL BE SCARIFIED BY RAKING PRIOR TO NEXT LIFT. SPREAD PLANTING MEDIUM (AS SPECIFIED BELOW) WITH WIDE TRACK BULLDOZER SIZE D-5 OR SMALLER OR IT MAY BE DUMPED AND SPREAD WITH A BUCKET OF A BACKHOE OR EQUIVALENT. THE CENTRAL PORTION OF THE PIT SHALL BE COMPRESSED ADEQUATELY TO SUPPORT THE ROOTBALL AND PREVENT SETTLING.

AMENDED SOIL: 12" DEEP PLANTING MEDIUM
24" DEEP HORTICULTURAL SUBSOIL

TYPE B: SHRUB PLANTING AREA (SH)
EXCAVATE TO ENTIRE AREA TO 18" MINUS FG. IMMEDIATELY PRIOR TO PLACING PLANTING SOILS THE ENTIRE SUBGRADE AREA SHALL BE LOOSENED TO A MINIMUM OF 12" UTILIZING THE TEETH OF A BACKHOE OR OTHER SUITABLE EQUIPMENT. COMPACT THE SCARIFIED SUBBASE TO 86-88% COMPACTION. SPREAD ENRICHED SUBSOIL (AS SPECIFIED BELOW) IN NO GREATER THAN 8" LIFTS AND COMPACT TO 82-85% MAX DRY DENSITY. THE SURFACE AREA OF EACH LIFT SHALL BE SCARIFIED BY RAKING PRIOR TO NEXT LIFT. SPREAD PLANTING MEDIUM (AS SPECIFIED BELOW) WITH WIDE TRACK BULLDOZER SIZE D-5 OR SMALLER OR IT MAY BE DUMPED AND SPREAD WITH A BUCKET OF A BACKHOE OR EQUIVALENT.

AMENDED SOIL: 12" DEEP PLANTING MEDIUM
6" DEEP HORTICULTURAL SUBSOIL

TYPE C: GROUNDCOVER (GC)
EXCAVATE TO ENTIRE AREA TO 10" MINUS FG. IMMEDIATELY PRIOR TO PLACING PLANTING SOILS THE ENTIRE SUBGRADE AREA SHALL BE LOOSENED TO A MINIMUM OF 12" UTILIZING THE TEETH OF A BACKHOE OR OTHER SUITABLE EQUIPMENT. COMPACT THE SCARIFIED SUBBASE TO 86-88% COMPACTION. SPREAD ENRICHED SUBSOIL (AS SPECIFIED BELOW) IN NO GREATER THAN 8" LIFTS AND COMPACT TO 82-85% MAX DRY DENSITY. THE SURFACE AREA OF EACH LIFT SHALL BE SCARIFIED BY RAKING PRIOR TO NEXT LIFT. SPREAD PLANTING MEDIUM (AS SPECIFIED BELOW) WITH WIDE TRACK BULLDOZER SIZE D-5 OR SMALLER OR IT MAY BE DUMPED AND SPREAD WITH A BUCKET OF A BACKHOE OR EQUIVALENT.

AMENDED SOIL: 10" DEEP PLANTING MEDIUM

TYPE D: BIOSWALE SOIL (BS)
EXCAVATE TO ENTIRE AREA TO 12" MINUS FG. IMMEDIATELY PRIOR TO PLACING PLANTING SOILS THE ENTIRE SUBGRADE AREA SHALL BE LOOSENED TO A MINIMUM OF 12" UTILIZING THE TEETH OF A BACKHOE OR OTHER SUITABLE EQUIPMENT. COMPACT THE SCARIFIED SUBBASE TO 86-88% COMPACTION. SPREAD ENRICHED SUBSOIL (AS SPECIFIED BELOW) IN NO GREATER THAN 8" LIFTS AND COMPACT TO 82-85% MAX DRY DENSITY. THE SURFACE AREA OF EACH LIFT SHALL BE SCARIFIED BY RAKING PRIOR TO NEXT LIFT. SPREAD PLANTING MEDIUM (AS SPECIFIED BELOW) WITH WIDE TRACK BULLDOZER SIZE D-5 OR SMALLER OR IT MAY BE DUMPED AND SPREAD WITH A BUCKET OF A BACKHOE OR EQUIVALENT.

AMENDED SOIL: 12" DEEP PLANTING MEDIUM

TYPE E: LAWN AREA (HL)
EXCAVATE TO ENTIRE AREA TO 8" MINUS FG. IMMEDIATELY PRIOR TO PLACING PLANTING SOILS THE ENTIRE SUBGRADE AREA SHALL BE LOOSENED TO A MINIMUM OF 12" UTILIZING THE TEETH OF A BACKHOE OR OTHER SUITABLE EQUIPMENT. COMPACT THE SCARIFIED SUBBASE TO 86-88% COMPACTION.
PLANTING MEDIUM (AS SPECIFIED BELOW) WITH WIDE TRACK BULLDOZER SIZE D-5 OR SMALLER COMPRESS WITH A MINIMUM OF TWO PASSES TO A DENSITY OF 86-88% MAX DRY DENSITY. NO VIBRATORY COMPACTION OF SUBGRADE OR PLANTING MEDIUM SHALL TAKE PLACE. NO RUBBER TIRED EQUIPMENT OR HEAVY EQUIPMENT EXCEPT SMALL BULLDOZER SHALL PASS OVER SOILS AFTER THEY HAVE BEEN LOOSENED OR PLANTING MEDIUM IS SPREAD.

AMENDED SOIL: 8" DEEP PLANTING MEDIUM

NOTE: PLACE AND SPREAD PLANTING MIXTURE TO A DEPTH GREATER THAN REQUIRED TO ACCOUNT FOR SETTLING.
REMOVE STIFF CLODS, LUMPS, BRUSH, ROOTS, STUMPS, LITTER, AND OTHER FOREIGN MATERIAL AND STONES GREATER THAN 1" DIAMETER

NOTE: CONTRACTOR TO UTILIZE EXISTING ON SITE STOCKPILED SOIL TO THE FULLEST EXTENT. SUBMIT SAMPLES FOR STANDARD SOIL TEST WITH ORGANIC CONTENT TO UMASS TESTING AGENCY FOR EACH TYPE OF PLANTING. AMEND WITH AGED LEAF COMPOST AS REQUIRED TO BALANCE ORGANIC CONTENT.

TYPE F: GEOFIBER STABILIZED HIGH USE LAWN AREA (GF)
EXCAVATE TO ENTIRE AREA TO 12" MINUS FG. IMMEDIATELY PRIOR TO PLACING PLANTING SOILS THE ENTIRE SUBGRADE AREA SHALL BE LOOSENED TO A MINIMUM OF 12" UTILIZING THE TEETH OF A BACKHOE OR OTHER SUITABLE EQUIPMENT. COMPACT THE SCARIFIED SUBBASE TO 86-88% COMPACTION.

SPREAD ENRICHED SUBSOIL (AS SPECIFIED BELOW) IN NO GREATER THAN 8" LIFT AND COMPACT TO 82-85% MAX DRY DENSITY. THE SURFACE AREA OF EACH LIFT SHALL BE SCARIFIED BY RAKING PRIOR TO NEXT LIFT. SPREAD PLANTING MEDIUM (AS SPECIFIED BELOW) WITH WIDE TRACK BULLDOZER SIZE D-5 OR SMALLER OR IT MAY BE DUMPED AND SPREAD WITH A BUCKET OF A BACKHOE OR EQUIVALENT. THE CENTRAL PORTION OF THE PIT SHALL BE COMPRESSED ADEQUATELY TO SUPPORT THE ROOTBALL AND PREVENT SETTLING.

AMENDED SOIL: 12" DEEP PLANTING MEDIUM

NOTE: PLACE AND SPREAD PLANTING MIXTURE TO A DEPTH GREATER THAN REQUIRED TO ACCOUNT FOR SETTLING.

REMOVE STIFF CLODS, LUMPS, BRUSH, ROOTS, STUMPS, LITTER, AND OTHER FOREIGN MATERIAL AND STONES GREATER THAN 1" DIAMETER

NOTE: CONTRACTOR TO UTILIZE EXISTING ON SITE STOCKPILED SOIL TO THE FULLEST EXTENT. SUBMIT SAMPLES FOR STANDARD SOIL TEST WITH ORGANIC CONTENT TO UMASS TESTING AGENCY FOR EACH TYPE OF PLANTING. AMEND WITH AGED LEAF COMPOST AS REQUIRED TO BALANCE ORGANIC CONTENT.

TYPE G: SAND BASED STRUCTURAL SOIL (SS)
EXCAVATE TO ENTIRE AREA TO 2'-9" MINUS FG. IMMEDIATELY PRIOR TO PLACING PLANTING SOILS THE ENTIRE SUBGRADE AREA SHALL BE LOOSENED TO A MINIMUM OF 12" UTILIZING THE TEETH OF A BACKHOE OR OTHER SUITABLE EQUIPMENT. COMPACT THE SCARIFIED SUBBASE TO 86-88% COMPACTION.

SPREAD ENRICHED SUBSOIL (AS SPECIFIED BELOW) IN NO GREATER THAN 8" LIFT AND COMPACT TO 82-85% MAX DRY DENSITY. THE SURFACE AREA OF EACH LIFT SHALL BE SCARIFIED BY RAKING PRIOR TO NEXT LIFT. SPREAD PLANTING MEDIUM (AS SPECIFIED BELOW) WITH WIDE TRACK BULLDOZER SIZE D-5 OR SMALLER OR IT MAY BE DUMPED AND SPREAD WITH A BUCKET OF A BACKHOE OR EQUIVALENT. THE CENTRAL PORTION OF THE PIT SHALL BE COMPRESSED ADEQUATELY TO SUPPORT THE ROOTBALL AND PREVENT SETTLING.

AMENDED SOIL: 2'-6" DEEP PLANTING MEDIUM

NOTE: PLACE AND SPREAD PLANTING MIXTURE TO A DEPTH GREATER THAN REQUIRED TO ACCOUNT FOR SETTLING.

REMOVE STIFF CLODS, LUMPS, BRUSH, ROOTS, STUMPS, LITTER, AND OTHER FOREIGN MATERIAL AND STONES GREATER THAN 1" DIAMETER

NOTE: CONTRACTOR TO UTILIZE EXISTING ON SITE STOCKPILED SOIL TO THE FULLEST EXTENT. SUBMIT SAMPLES FOR STANDARD SOIL TEST WITH ORGANIC CONTENT TO UMASS TESTING AGENCY FOR EACH TYPE OF PLANTING. AMEND WITH AGED LEAF COMPOST AS REQUIRED TO BALANCE ORGANIC CONTENT.

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PULASKI PARK
NORTHAMPTON . MA

SCALE 1"=50'-0"
DATE 02.18.2015
DRAWN BY GS, AD, SL, JF, ND
REVIEWED BY LS, SS

DESIGN DEVELOPMENT

SOILS PLAN - SOUTH

L5.1



PLANTING NOTES:

1. Planting contractor shall visit site prior to submitting bid to become completely familiar with site conditions.
2. No planting will be installed until all grading and construction has been completed in immediate area.
3. Contractor to verify all utilities on property and to protect all utilities during excavation for plants.
4. If there is a discrepancy between the number of plants shown on the plan and the number of plants shown in plant list, the number of plants shown on plan will take precedence.
5. All container material to be grown in container a minimum of 6 months.
6. All material shall comply with the latest edition of the American Standard for Nursery Stock, American Association of Nurseryman.
7. Contractor shall repair all damage to property from planting operations at no cost to the owner.
8. Contractor shall guarantee new plant material through one calendar year from time of provisional acceptance.
9. The Landscape Architect will tag all plants at the nursery and inspect them after delivery to the site. All plant materials shall be inspected by the Landscape Architect on site prior to installation.
10. All proposed plants shall be located carefully as shown on the plans and the placements shall be approved by Landscape Architect before the plants are installed.
11. Spacing of plants is to be based on measurements taken parallel to the ground plane.
12. All disturbed areas not to be paved or planted shall be loamed and seeded as shown. See specifications for seed mix.
13. Staking and guying shall be determined by the Landscape Architect on a tree by tree basis. For pricing purposes, provide a per tree unit cost for staking and guying. If staking and guying is required, remove tree wrap, stakes, and guy wires at end of first growing season.
14. For tree planting in lawn areas, any disturbed lawn shall be loamed and seeded as necessary.
15. Grass seed shall be applied at the recommended rate then raked in. Additional seeding at the recommended rate will be hydro seeded. depending on conditions, straw cover may be required.
16. Landscape Architect to flag trees to be protected on site.

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18. Include pop-up irrigation system at central lawn area
19. Remainder of park planting to be irrigated as part of installation and warrantee contract with Landscape Contractor

SYM	BOTANICAL NAME	COMMON NAME	SIZE	NOTES	QTY*
EVERGREEN TREE					
AB	Abies balsamea	Balsam Fir	18-20' H	B/B	1
DECIDUOUS TREE					
AR	Acer rubrum 'Autumn Blaze'	Red Maple	3"-3.5" cal.	B/B	6
AC	Amelanchier canadensis	Serviceberry	6'-8' H	B/B	4
	" "	" "	8'-10' H	B/B	5
BA	Betula alleghaniensis	Yellow Birch	6'-8' H	B/B	3
	" "	" "	8'-10' H	B/B	1
HV	Hamamellis virginiana	Common Witch Hazel	6'-8' H	B/B	8
	" "	" "	8'-10' H	B/B	5
QB	Quercus bicolor	Swamp white oak	3-3.5" CAL	B/B	5
TU	Nyssa sylvatica	Tupelo	2-2.5" CAL	B/B	4
	" "	" "	3-3.5" CAL	B/B	3
SHRUBS					
BM	Buxus sempervirens 'Monrue'	Boxwood "Green Tower"	#5 pot	B/B	6
CS	Cornus sericea 'Arctic Fire'	Red Osier Dogwood 'Arctic Fire'	#5 pot	30" O.C.	17
IG	Ilex glabra 'Shamrock'	'Shamrock' Inkberry	#5 pot	30" O.C.	65
IVS	Ilex verticillata 'Red Sprite'	'Red Sprite' Winterberry	3' H	24" O.C. B/B	17
IVR	Ilex verticillata 'Sparkleberry'	'Sparkleberry' Winterberry	3' H	24" O.C.	80
IVR1	" "	" "	4' H	B/B	21
IVR2	Ilex verticillata 'Straight native'	'Straight Native' Winterberry	6" + H	B/B	1
GROUNDCOVERS , GRASSES & PERENNIALS					
CC	Calamagrostis canadensis	Blue Joint Grass	# 1 pot	18" O.C.	92
CP	Comptonia peregrina	Sweetfern	# 7 pot	36" O.C.	415
DM	Dryopteris marginalis	Eastern woodfern	# 1 pot	12" O.C.	1,244
DP	Dennstaedtia punctilobula	Hayscented Fern	# 1 pot	12" O.C.	1,261
ED	Eupatorium dubium 'LittleJoe'	Joe Pye Weed	# 1 pot	30" O.C.	7
IR	Iris versicolor	Blue Flag	# 1 pot	12" O.C.	120
JE	Juncus effusus	Common Rush	# 1 pot	12" O.C.	48
MS	Matteuccia struthiopteris	Ostrich Fern	# 1 pot	12" O.C.	240
OC	Osmundastrum cinnamomeum	Cinnamon Fern	# 1 pot	12" O.C.	256
OC1	Osmunda claytoniana	Interrupted Fern	# 1 pot	12" O.C.	197
PA	Polystichum acrostichoides	Christmas Fern	# 1 pot	12" O.C.	851
PV	Panicum virgatum	Switchgrass	# 1 pot	18" O.C.	138
RA	Rhus aromatica 'Low-Gro'	'Low-Gro' Fragrant Sumac	# 3 pot	18" O.C.	1,649
SS	Schizachyrium scoparium	Little Bluestem	# 1 pot	12" O.C.	1,602
SN	Sorghastrum nutans	Yellow Indian Grass	# 1 pot	12" O.C.	159
TX	Taxus x media 'Everlow'	'Everlow' Yew	# 3 pot	18" O.C.	1,816
VA	Vaccinium angustifolium	Low Bush Blueberry	# 3 pot	12" O.C.	703
XS	Xanthorhiza simplicissima	Yellow Root	# 1 pot	18" O.C.	718
AHJ	Anemone 'Honorine Jobert'	Honorine Jobert Anemone	Bulbs	4" O.C.	35
AS	Allium sphaerocephalon	Drumstick Allium	Bulbs	12" O.C.	35
SNA	Symphyotrichum novae-angliae	New England Aster	1 gal. pot	12" O.C.	25
TR	Thalictrum rochebruneanum	'Lavender Mist' Meadow Rue	1 gal. pot	12" O.C.	10
CR	Crocus sp. mixed purple/white	Crocus	Bulbs		250
NP	Narcissus poeticus	White Poet's Daffodil	Bulbs		700
SC	Scilla nutans	Bluebell	Bulbs		250
L		Lawn - Seed Mix	seed		19,485 SQ. FT

STEPHEN STIMSON ASSOCIATES LANDSCAPE ARCHITECTS

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NITSCH ENGINEERING, INC.

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P 617 338 0063

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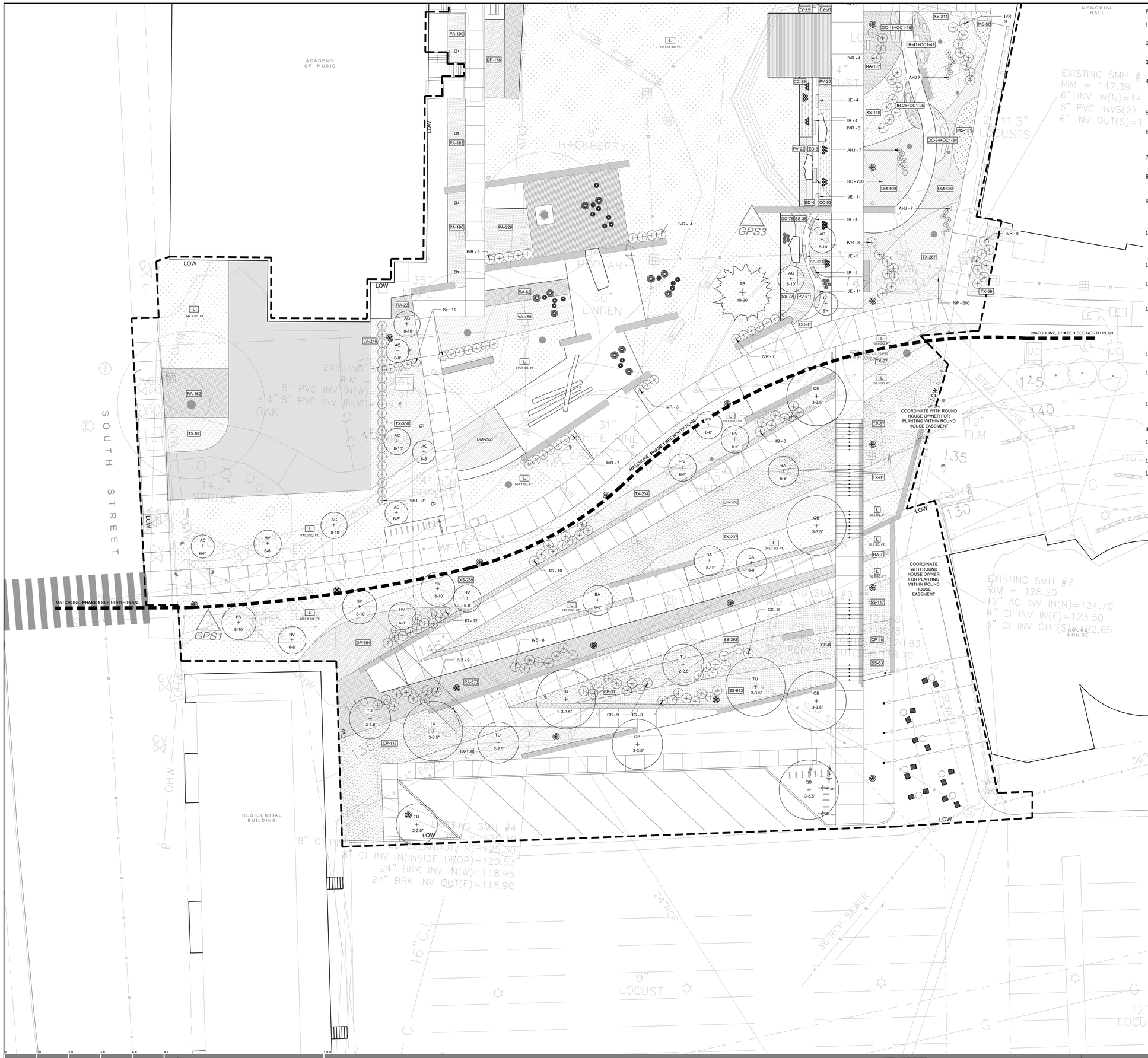
PULASKI PARK
NORTHAMPTON . MA

SCALE 1"=10'-0"
DATE 02.18.2015
DRAWN BY GS, AD, SL, JF, ND
REVIEWED BY LS, SS

DESIGN DEVELOPMENT

PLANTING PLAN - NORTH

L5.2



PLANTING NOTES:

1. Planting contractor shall visit site prior to submitting bid to become completely familiar with site conditions.
2. No planting will be installed until all grading and construction has been completed in immediate area.
3. Contractor to verify all utilities on property and to protect all utilities during excavation for plants.
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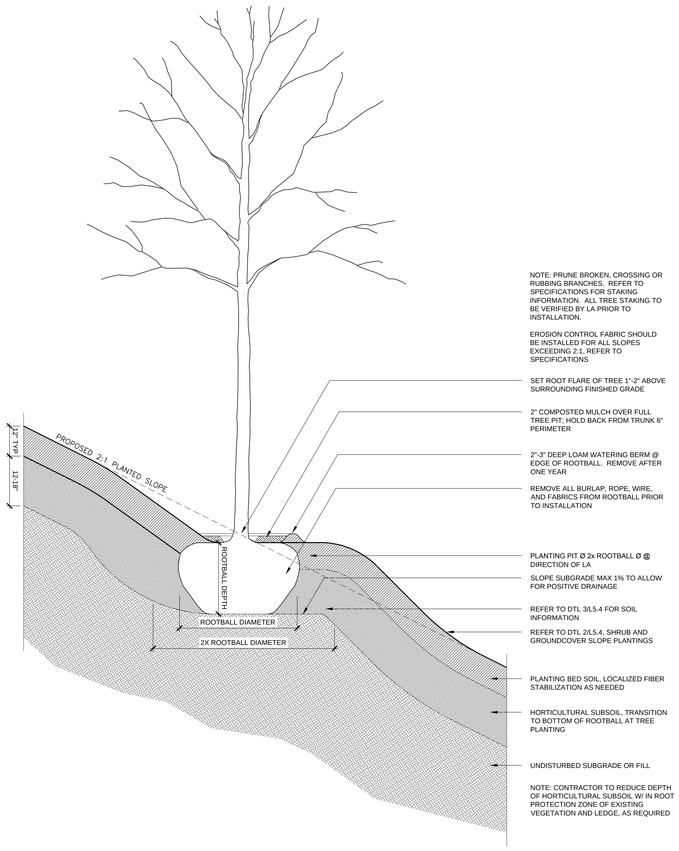
PULASKI PARK
NORTHAMPTON . MA

SCALE	1"=10'-0"
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DRAWN BY	GS, AD, SL, JF, ND
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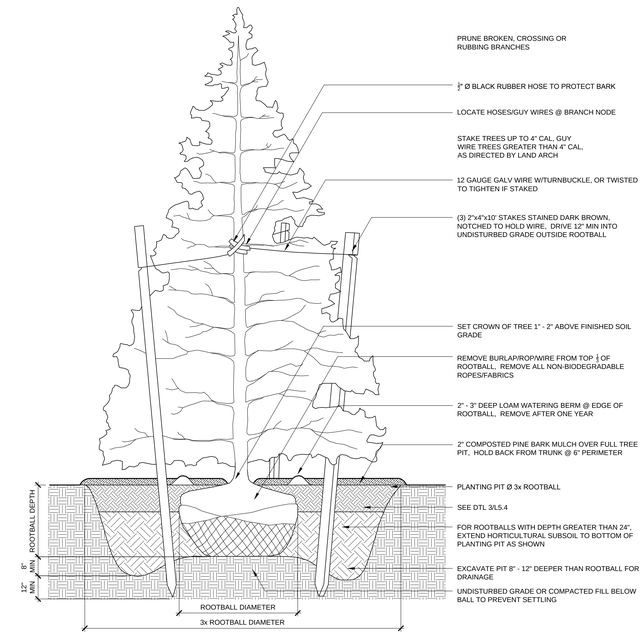
DESIGN DEVELOPMENT

PLANTING PLAN - SOUTH

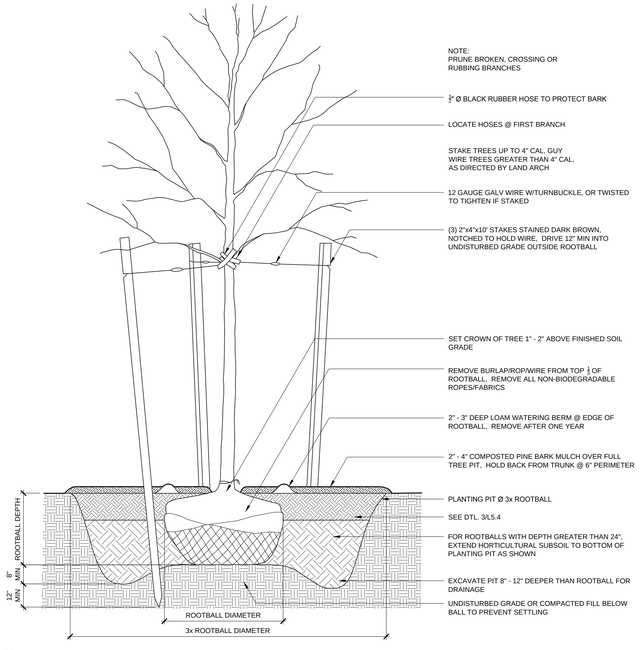
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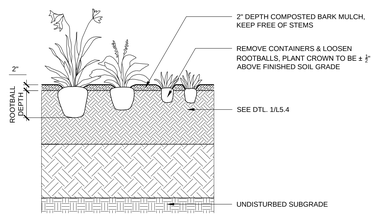
14 TREE PLANTING, STEEP TO MODERATE SLOPES, TYP.
NOT TO SCALE



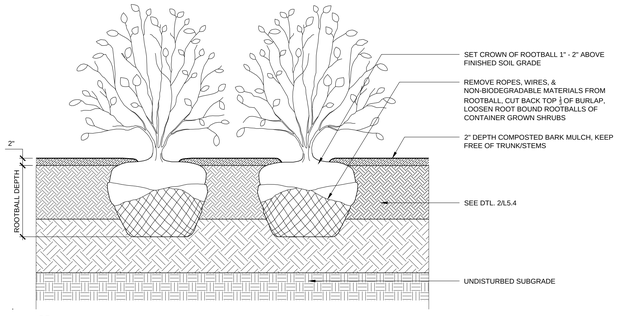
11 EVERGREEN TREE PLANTING
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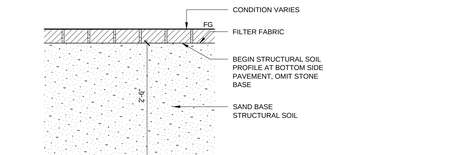
15 DECIDUOUS TREE PLANTING
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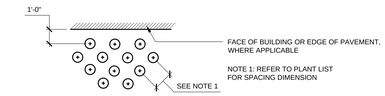
12 PERENNIAL AND GROUNDCOVER PLANTING
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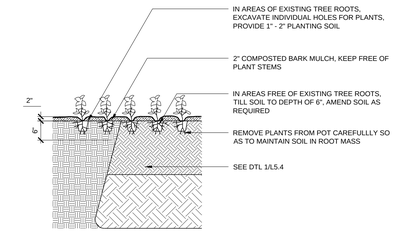
13 SHRUB PLANTING
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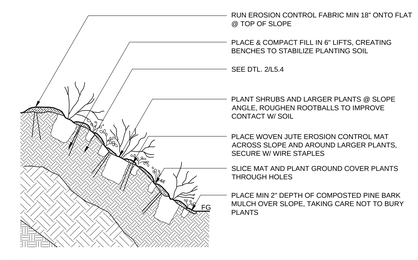
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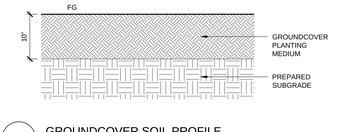
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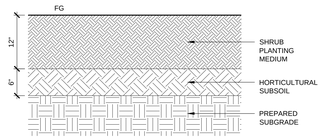
9 GROUNDCOVER PLANTING
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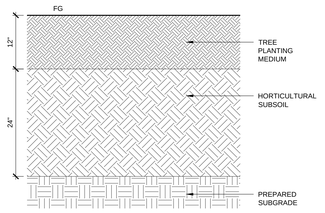
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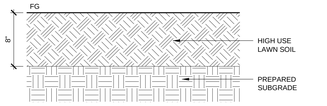
1 GROUNDCOVER SOIL PROFILE
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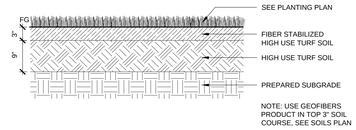
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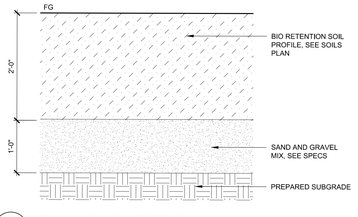
3 TREE SOIL PROFILE
NOT TO SCALE



4 HIGH USE TURF SOIL PROFILE
NOT TO SCALE



5 FIBER STABILIZED HIGH USE TURF SOIL PROFILE
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6 BIOSWALE SOIL PROFILE
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PULASKI PARK
NORTHAMPTON . MA

SCALE	AS NOTED
DATE	02.18.2015
DRAWN BY	GS, AD, SL, JF, NO
REVIEWED BY	LS, SS

DESIGN DEVELOPMENT

PLANTING DETAILS

L5.4

LIGHTING LEGEND

SWITCH	SYM	DESCRIPTION	QTY
S1		PEDESTRIAN LIGHT POLE Phillips Lumec MetroScape Head -MPTR, Phillips Lumec Pole -RTA800 P60 Poles to be fitted with outlets for holiday lighting out of arms reach.	14
S2		PEDESTRIAN LIGHT POLE AT OVERLOOK Phillips Lumec MetroScape Head -MPTR, Phillips Lumec Pole -RTA800 P60 Poles to be fitted with outlets for holiday lighting out of arms reach.	6
S3		WATERPROOF UPLIGHT Moda Roko 3 G2	2
S4		BOLLARD W/LIGHT Erco Midipoll Bollard luminaire -33342.099-277v with 33980.000 concrete anchor	8
S5		STRING LIGHTS AT MAIN ST, PLAZA -Market Light ML 2000 / 24" /LED-WW/NC/WET Jakob S.S. Fasteners, LED-WW 3200K, 2.5W Per Lamp	195 LF
S6		STRING LIGHTS AT OVERLOOK PLAZA See S6 info above	122 LF
		STRING LIGHT POLE TEKA Tapered Aluminum Pole -PTR5-1308	12
		WATERPROOF ELECTRICAL OUTLET Provide eight (8) electrical outlets at string light poles, one (1) near stage and one (1) at pole near Overlook Plaza.	10
		WEB CAMERA Provide four (4) wed cams and mounting brackets for mounting to light poles	4
		USB CHARGING STATION Provide six (6) USB hubs -Digikey products and waterproof enclosures - Philips Lumex GFI Bracket at light poles and string light poles.	6

LIGHTING NOTES

1. Final fixture locations, quantities, makes and models to be determined.
2. Electrical Contractor is reponsible for making sure that all work complies with all governing codes and regulations.
3. All fixtures to be staked in the field by Contractor and approved by the Landscape Architect prior to installation.
4. City DPW and Contractor to verify switch locations for site lighting.
5. City DPW to coordinate burial of overhead powerlines within existing conduit, prior to park construction.
6. Landscape Architect/City DPW to coordinate electrical source for all park lights and electrical outlets.

STEPHEN STIMSON ASSOCIATES LANDSCAPE ARCHITECTS

288 NORFOLK STREET CAMBRIDGE MA 02139 T 617 876 8960 F 617 876 8906
71 GATES ROAD PRINCETON MA 01541 T 617 876 8960 F 617 876 8906
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NITSCH ENGINEERING, INC.
2 CENTER PLAZA #430
BOSTON, MA 02108
P 617 338 0063

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2	02.18.15	100% DD SET	10		
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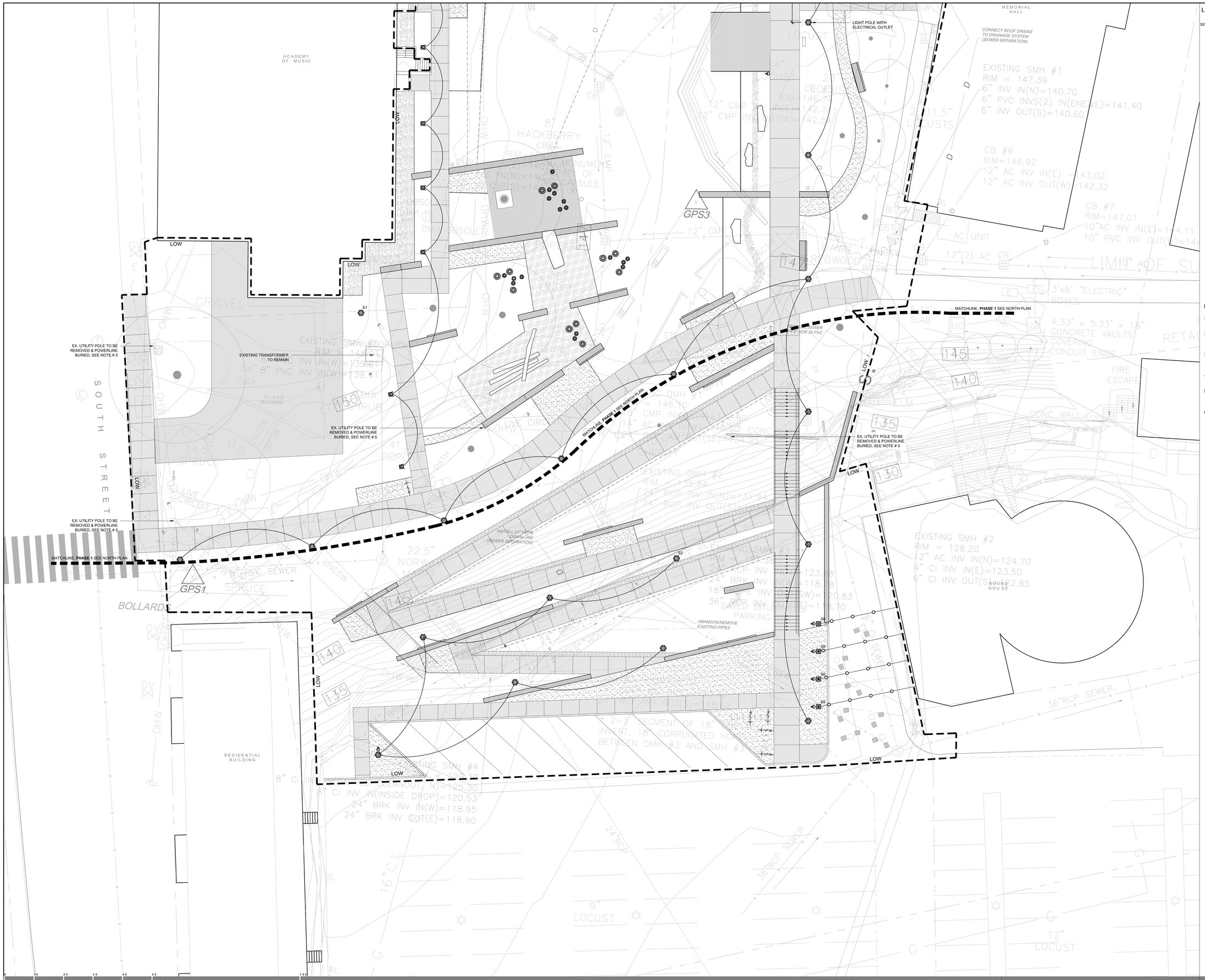
PULASKI PARK
NORTHAMPTON , MA

SCALE 1"=10'-0"
DATE 02.18.2015
DRAWN BY GS, AD, SL, JF, ND
REVIEWED BY LS, SS

DESIGN DEVELOPMENT

SITE LIGHTING PLAN & ELECTRICAL NORTH

L6.0



LIGHTING LEGEND

SWITCH	SYM	DESCRIPTION	QTY
S1		PEDESTRIAN LIGHT POLE Phillips Lumec MetroScape Head -MPTR, Phillips Lumec Pole -RTA800 P60 Poles to be fitted with outlets for holiday lighting out of arms reach.	14
S2		PEDESTRIAN LIGHT POLE AT OVERLOOK Phillips Lumec MetroScape Head -MPTR, Phillips Lumec Pole -RTA800 P60 Poles to be fitted with outlets for holiday lighting out of arms reach.	6
S3		WATERPROOF UPLIGHT Moda Roko 3 G2	2
S4		BOLLARD W/LIGHT Erco Midipoll Bollard luminaire -33342.099-277v with 33980.000 concrete anchor	8
S5		STRING LIGHTS AT MAIN ST, PLAZA -Market Light ML 2000 / 24" /LED-WW/INCW/ET Jakob S.S. Fasteners, LED-WW 3200K, 2.5W Per Lamp	195 LF
S6		STRING LIGHTS AT OVERLOOK PLAZA See S6 info above	122 LF
		STRING LIGHT POLE TEKA Tapered Aluminum Pole -PTR5-1308	12
		WATERPROOF ELECTRICAL OUTLET Provide eight (8) electrical outlets at string light poles, one (1) near stage and one (1) at pole near Overlook Plaza.	10
		WEB CAMERA Provide four (4) wed cams and mounting brackets for mounting to light poles	4
		USB CHARGING STATION Provide six (6) USB hubs -Digikey products and waterproof enclosures - Philips Lumex GFI Bracket at light poles and string light poles.	6

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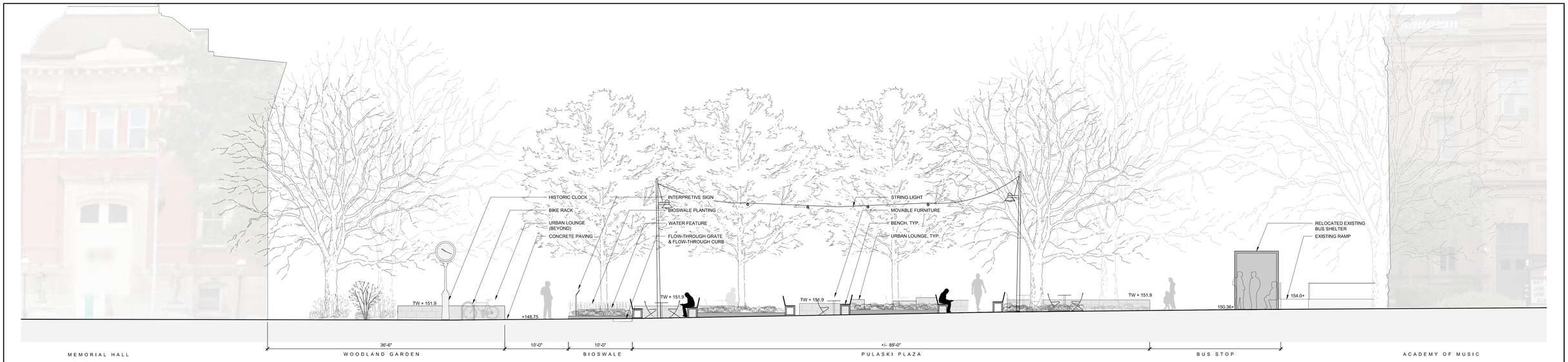
PULASKI PARK
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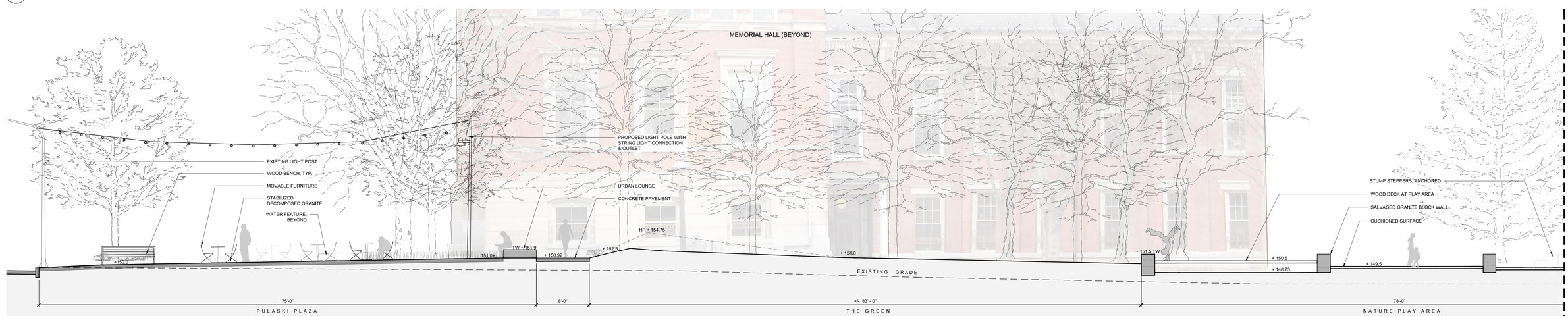
DESIGN DEVELOPMENT

SITE LIGHTING PLAN & ELECTRICAL SOUTH

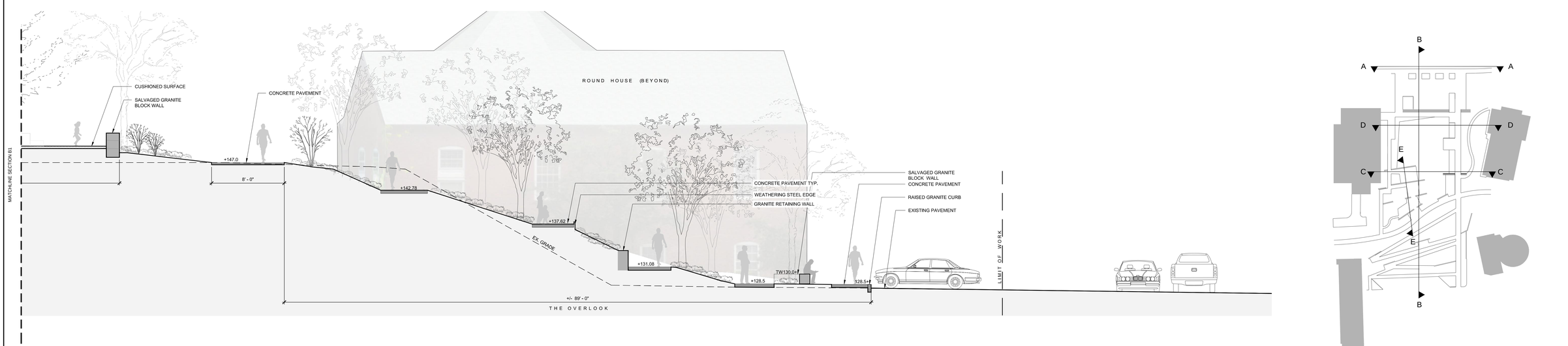
L6.1



A PLAZA ENTRANCE
3/16"=1'-0"



B1 NORTH - SOUTH SECTION LOOKING EAST
3/16"=1'-0"



B2 NORTH - SOUTH SECTION LOOKING EAST, CONTINUED
3/16"=1'-0"

KEY PLAN - SITE SECTIONS

STEPHEN STIMSON ASSOCIATES LANDSCAPE ARCHITECTS
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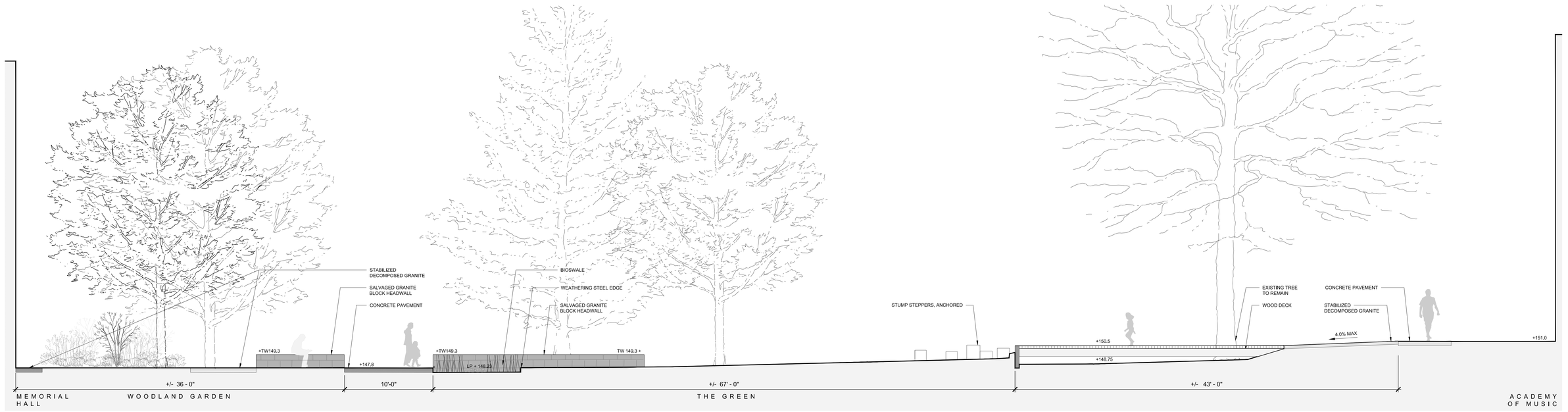
PULASKI PARK
NORTHAMPTON , MA

SCALE: AS NOTED
DATE: 02.18.2015
DRAWN BY: GS, AD, SL, JF, ND
REVIEWED BY: LS, SS

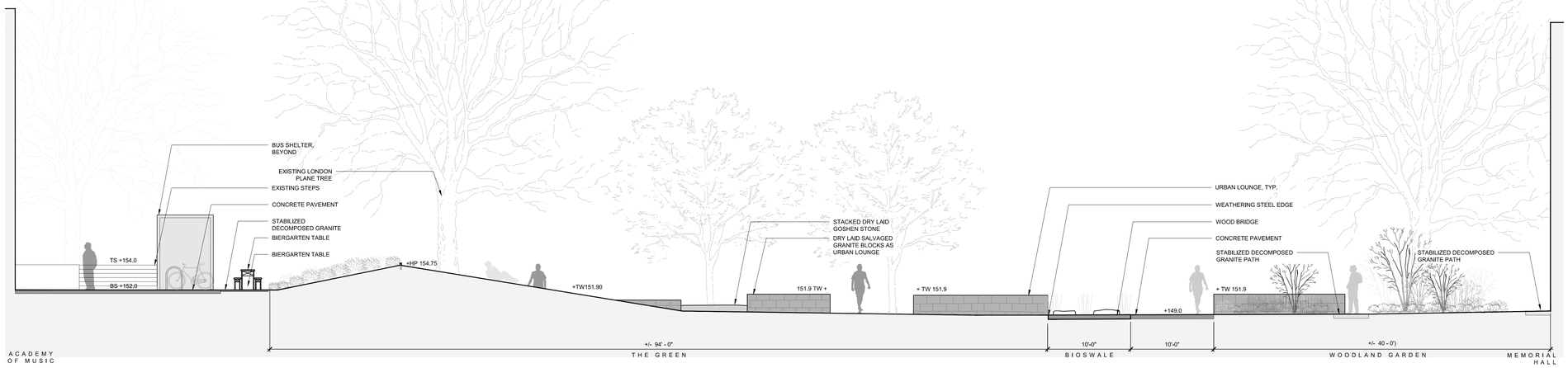
1 DESIGN DEVELOPMENT

SITE SECTIONS

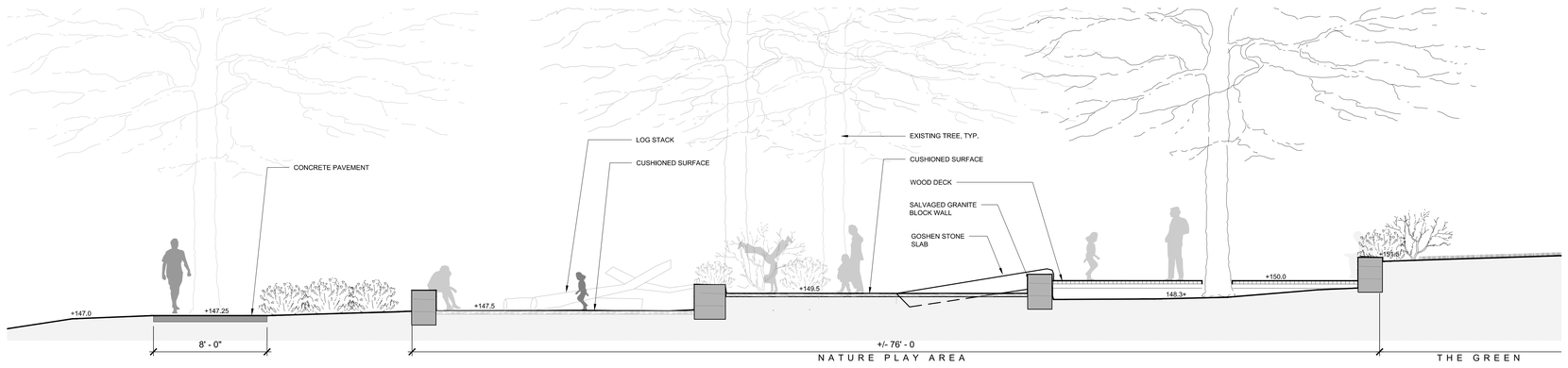
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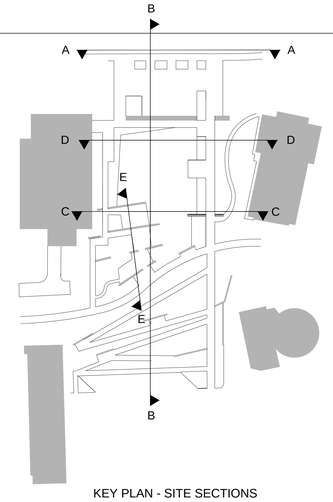
C EAST - WEST SECTION LOOKING SOUTH
1/4"=1'-0"



D WEST - EAST SECTION LOOKING NORTH
3/16"=1'-0"



E NATURE PLAY AREA LOOKING WEST
1/4"=1'-0"



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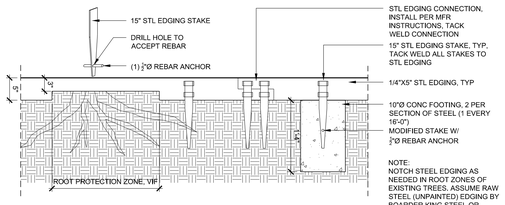
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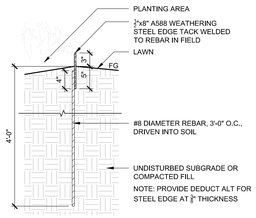
DESIGN DEVELOPMENT

SITE SECTIONS

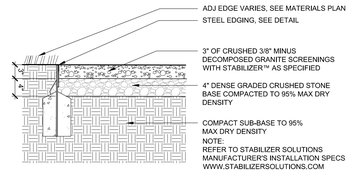
L7.1



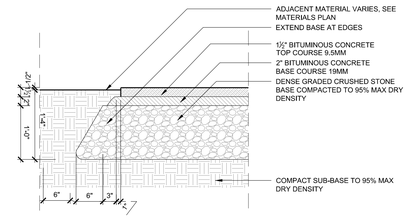
11 STEEL EDGING
1"=1'-0"



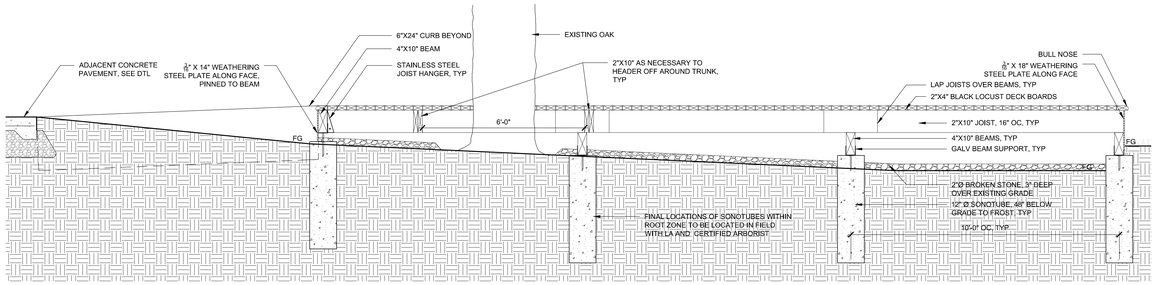
12 THICKENED STEEL EDGING AT LAWN
1"=1'-0"



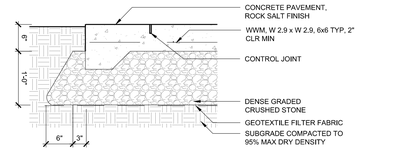
6 STABILIZED DECOMPOSED GRANITE
1"=1'-0"



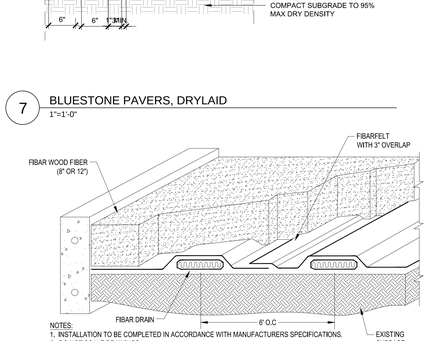
1 BITUMINOUS CONCRETE PAVEMENT
1"=1'-0"



13 WOOD DECK AT EXISTING TREE - SECTION
1/2"=1'-0"

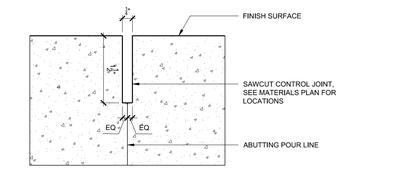


2 CONCRETE PAVEMENT- VEHICULAR
1"=1'-0"

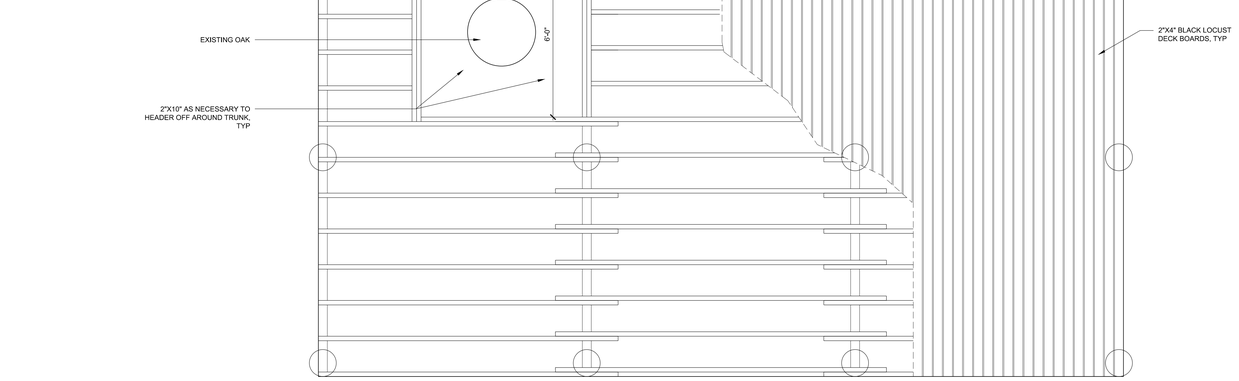


7 BLUESTONE PAVERS, DRYLAID
1"=1'-0"

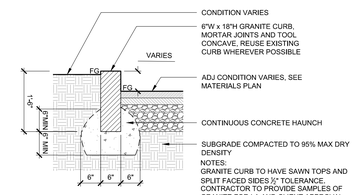
8 WOOD FIBAR SAFETY SURFACING
NTS



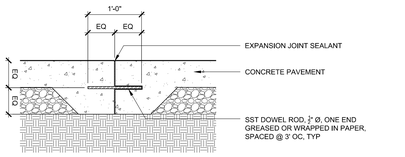
3 CONTROL JOINT
1"=1'-0"



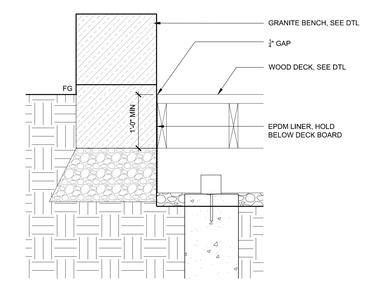
14 WOOD DECK AT EXISTING TREE - PLAN
1/2"=1'-0"



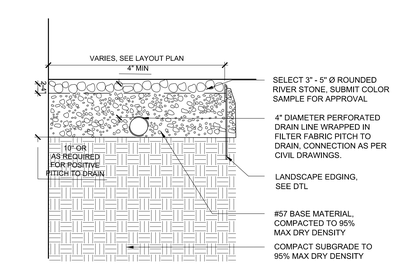
9 RAISED GRANITE CURB
3/4"=1'-0"



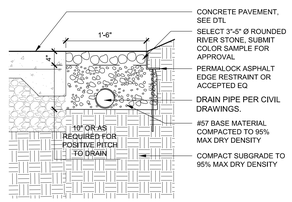
4 EXPANSION JOINT
1"=1'-0"



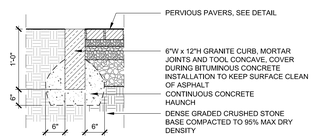
15 WOOD DECK AT GRANITE BLOCK
1"=1'-0"



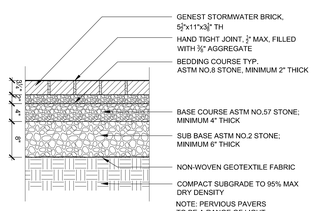
16 MAINTENANCE EDGE
1"=1'-0"



17 RIVERSTONE EDGE AT OVERLOOK PATHS
1"=1'-0"



10 GRANITE CURB - FLUSH
1"=1'-0"



5 PERVIOUS UNIT PAVERS
1"=1'-0"

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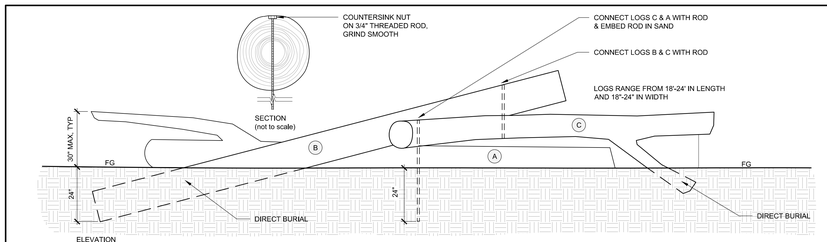
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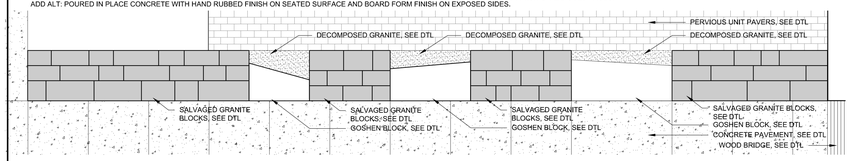
PAVING AND EDGE DETAILS

L8.0

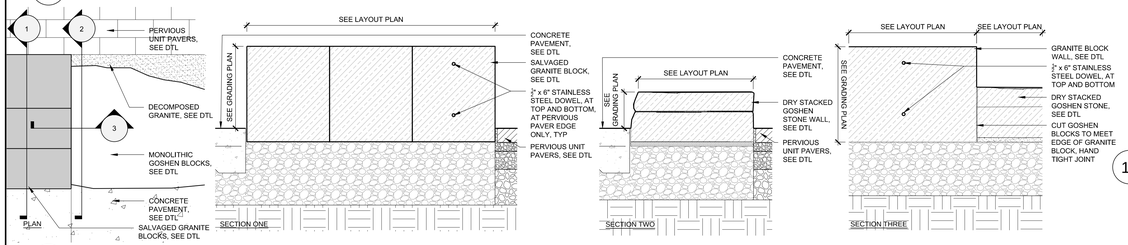


16 BLACK LOCUST LOG STACK
1/2"=1'-0"

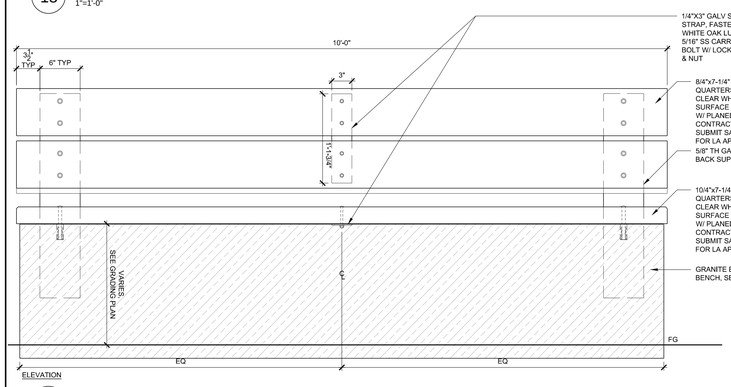
NOTE: SEE LAYOUT PLAN FOR DIMENSIONS
BASE BID: DRY-LAID SALVAGED GRANITE MONOLITHIC BLOCKS, HAND TIGHT SAWN JOINTS, THERMAL FINISH ON TOP, EXISTING SALVAGED FINISH ON EXPOSED FACES.
ADD ALT: POURED IN PLACE CONCRETE WITH HAND RUBBED FINISH ON SEATED SURFACE AND BOARD FORM FINISH ON EXPOSED SIDES.



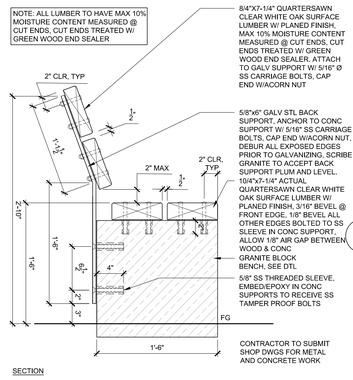
17 URBAN LOUNGE OVERALL PLAN
3/16"=1'-0"



18 URBAN LOUNGE - STONE BLOCKS
1"=1'-0"

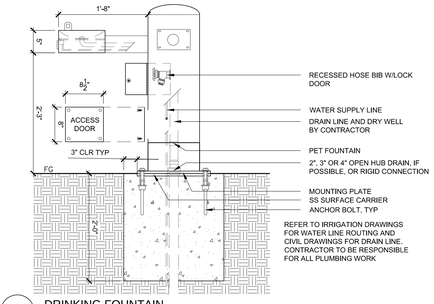


NOTE: ALL LUMBER TO HAVE MAX 10% MOISTURE CONTENT MEASURED @ CUT ENDS. CUT ENDS TREATED W/ GREEN WOOD END SEALER



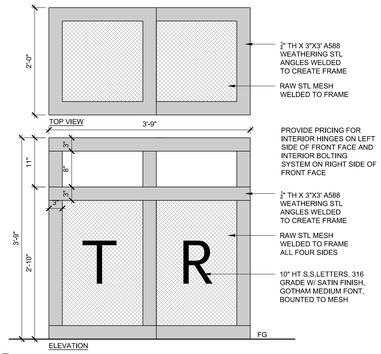
CONTRACTOR TO SUBMIT SHOP DWGS FOR METAL AND CONCRETE WORK

19 WOODED BACK AT GRANITE BLOCK BENCHES
1/2"=1'-0"

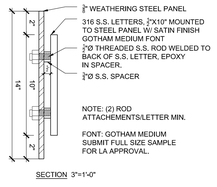


REFER TO IRRIGATION DRAWINGS FOR WATER LINE ROUTING AND CIVIL DRAWINGS FOR DRAIN LINE. CONTRACTOR TO BE RESPONSIBLE FOR ALL PLUMBING WORK

20 DRINKING FOUNTAIN
1/2"=1'-0"



21 TRASH/RECYLING RECEPTACLE
NTS





22 ENTRY SIGN
1/2"=1'-0"



NOTES: CLOCK TO BE SUPPLIED BY CITY IN WORKING ORDER. MOUNTING METHOD TO BE DETERMINED DURING CD'S. ASSUME CONCRETE FOOTING TO FROST DEPTH MIN. AND ACCEPTED WIND LOAD REQUIREMENT BASED ON HEIGHT OF CLOCK. STRUCTURAL ENGINEER TO VERIFY.

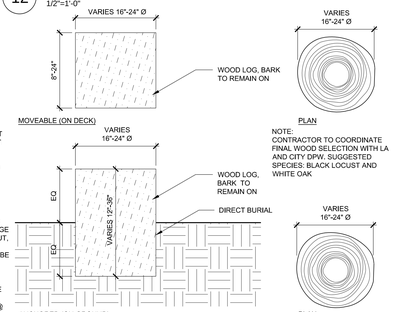
11 HISTORIC CLOCK AT PULASKI PLAZA
1/2"=1'-0"



INFORMATIONAL SIGN | MUSANTE MEMORIAL | PULASKI MEMORIAL

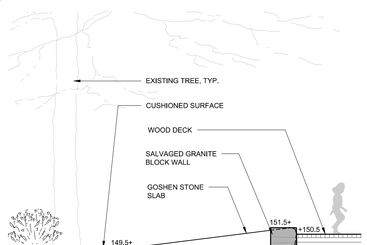
EXISTING MEMORIALS AND TIME CAPSULE PLAQUE TO BE RELOCATED AND RESET. ASSUME CONCRETE FOOTINGS AND LEVELING SLABS

12 RELOCATED MEMORIALS
1/2"=1'-0"

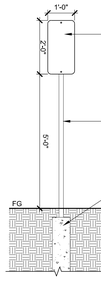


NOTE:
CONTRACTOR TO COORDINATE FINAL WOOD SELECTION WITH LA AND CITY DPW. SUGGESTED SPECIES: BLACK LOCUST AND WHITE OAK

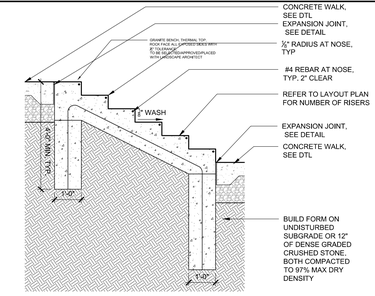
13 STUMP STEPPERS
1"=1'-0"



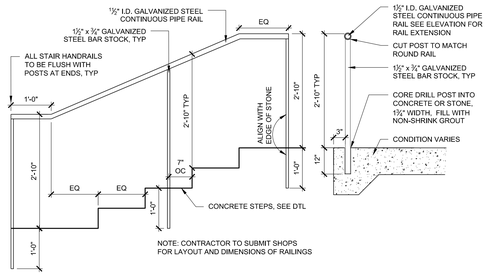
14 GOSHEN STONE SLAB AT PLAY AREA
1/4"=1'-0"



15 CAUTION SIGN
1/2"=1'-0"



6 CONCRETE STEPS
1/2"=1'-0"



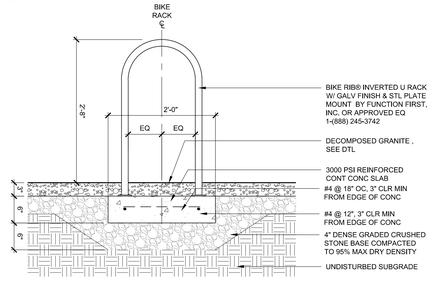
NOTE: CONTRACTOR TO SUBMIT SHOPS FOR LAYOUT AND DIMENSIONS OF RAILINGS

7 HANDRAIL
3/4"=1'-0"

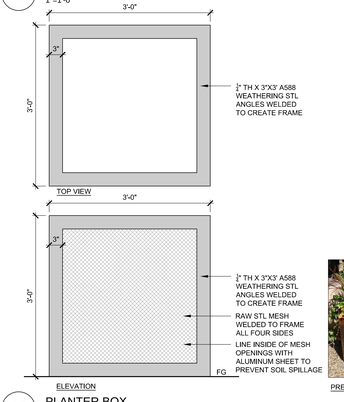


"CYCLE HOOP BIKE WHEEL RAMP" ALONG FULL LENGTH OF CONCRETE STEPS. MOUNT ACCORDING TO MANUFACTURER'S INSTRUCTIONS CYCLEHOOP.COM, REFER TO MATERIALS PLAN FOR LOCATION

8 BIKE WHEEL RAMP
NTS



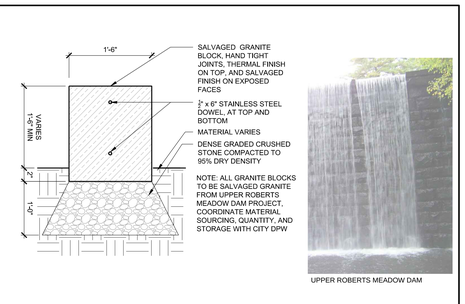
9 BIKE RACK
1"=1'-0"





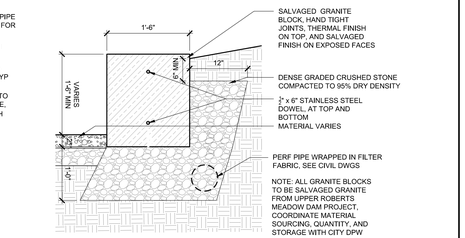
PRECEDENT IMAGE

10 PLANTER BOX
1"=1'-0"



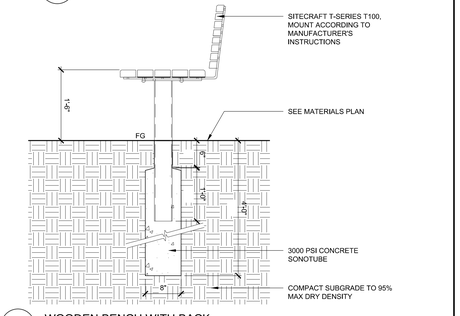
UPPER ROBERTS MEADOW DAM

1 GRANITE BLOCK BENCH
1/2"=1'-0"

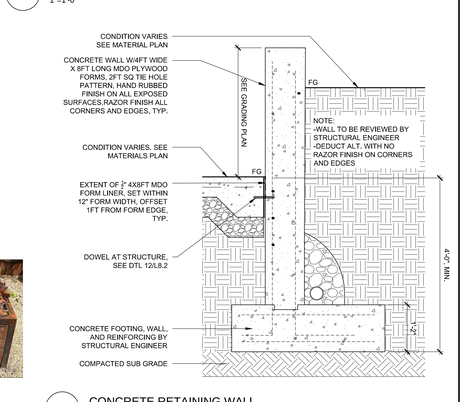


2 GRANITE BLOCK RETAINING WALL
1/2"=1'-0"

3 STACKED GOSHEN BLOCKS
1"=1'-0"



4 WOODEN BENCH WITH BACK
1"=1'-0"



5 CONCRETE RETAINING WALL
3/4"=1'-0"

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NITSCH ENGINEERING, INC.
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P 617 338 0063

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ISSUE	DATE	DESCRIPTION
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2	02.18.15	100% DD SET
1	12.11.14	95% DD CHECK SET

ISSUE	DATE	DESCRIPTION
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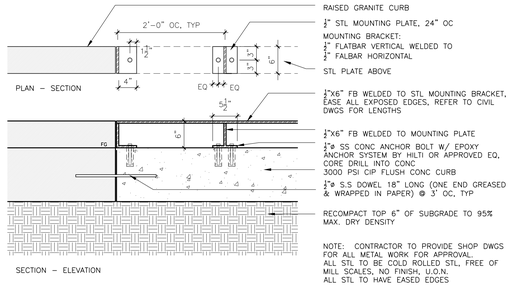
PULASKI PARK
NORTHAMPTON . MA

SCALE	AS NOTED
DATE	02.18.2015
DRAWN BY	GS, AD, SL, JF, ND
REVIEWED BY	LS, SS

DESIGN DEVELOPMENT

WALLS, STEPS, AND SITE AMENITIES DETAILS

L8.1



RAISED GRANITE CURB

½" STL MOUNTING PLATE, 24" OC

MOUNTING BRACKET:
½" FLATBAR VERTICAL WELDED TO ½" FALBAR HORIZONTAL

STL PLATE ABOVE

½"X6" FB WELDED TO STL MOUNTING BRACKET, EASE ALL EXPOSED EDGES, REFER TO CIVIL DWGS FOR LENGTHS

½"X6" FB WELDED TO MOUNTING PLATE

½"ø SS CONC ANCHOR BOLT W/ EPOXY ANCHOR SYSTEM BY HILTI OR APPROVED EQ, CORE DRILL INTO CONC

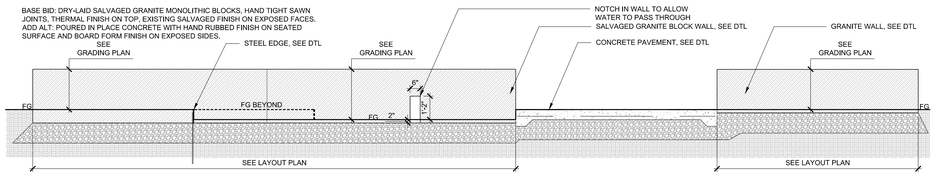
3000 PSI CIP FLUSH CONC CURB

½"ø S.S DOWEL 18" LONG (ONE END GREASED & WRAPPED IN PAPER) @ 3' OC, TYP

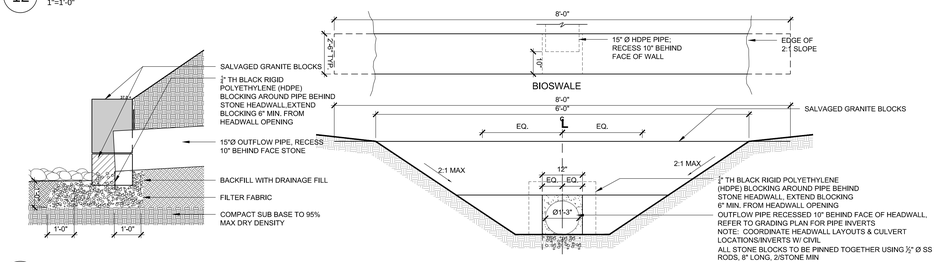
RECOMPACT TOP 6" OF SUBGRADE TO 95% MAX. DRY DENSITY

NOTE: CONTRACTOR TO PROVIDE SHOP DWGS FOR ALL METAL WORK FOR APPROVAL; ALL STL TO BE COLD ROLLED STL, FREE OF MILL SCALES, NO FINISH, U.O.N. ALL STL TO HAVE EASED EDGES

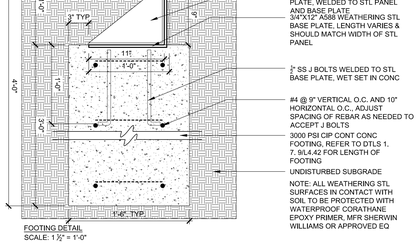
11 FLOW-THROUGH CURB
1"=1'-0"



12 NORTH HEADWALL
1"=1'-0"



13 SOUTH HEADWALL
1"=1'-0"



3/8" A588 WEATHERING STL PANEL, EASE ALL EXPOSED EDGES

A588 WEATHERING STL GUSSET PLATE, WELDED TO STL PANEL AND BASE PLATE 3/4"X12" A588 WEATHERING STL BASE PLATE, LENGTH VARIES & SHOULD MATCH WIDTH OF STL PANEL

½" SS J BOLTS WELDED TO STL BASE PLATE, WET SET IN CONC

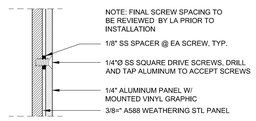
#4 @ 9" VERTICAL O.C. AND 10" HORIZONTAL O.C., ADJUST SPACING OF REBAR AS NEEDED TO ACCEPT J BOLTS

3000 PSI CIP CONT CONC FOOTING, REFER TO DTLS 1, 7, 9/L4.42 FOR LENGTH OF FOOTING

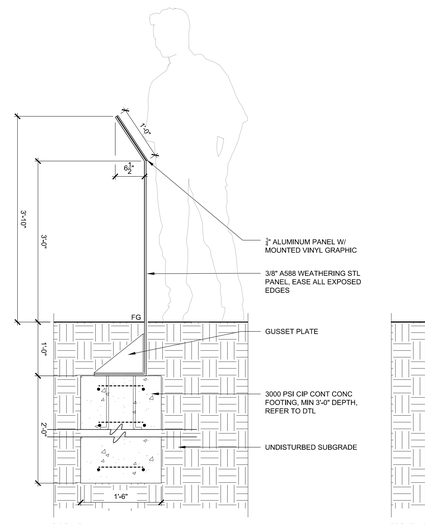
UNDISTURBED SUBGRADE

NOTE: ALL WEATHERING STL SURFACES IN CONTACT WITH SOIL TO BE PROTECTED WITH WATERPROOF CORATHANE EPOXY PRIMER, MFR SHERWIN WILLIAMS OR APPROVED EQ

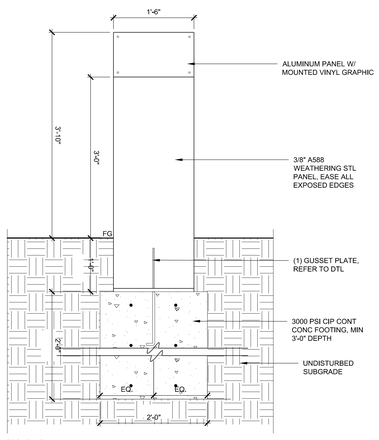
FOOTING DETAIL
SCALE: 1 ½" = 1'-0"



MOUNTING DETAIL
SCALE: 6" = 1'-0"

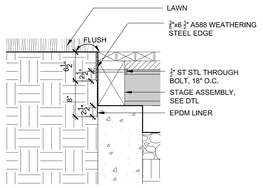


SIDE VIEW

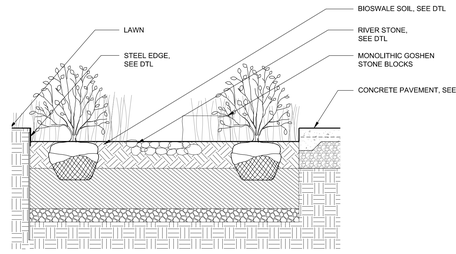


FRONT VIEW

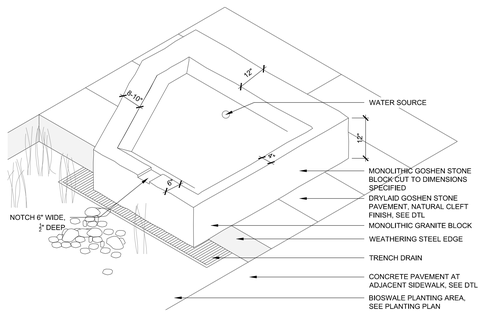
14 INTERPRETIVE SIGNAGE
1"=1'-0"

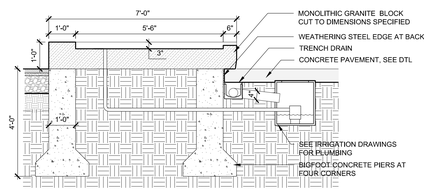


6 STEEL EDGE AT WOOD STAGE AND LAWN
1"=1'-0"

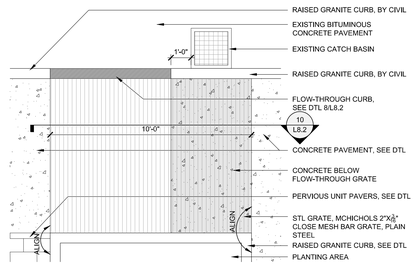


1 BIOSWALE PROFILE
1/2"=1'-0"

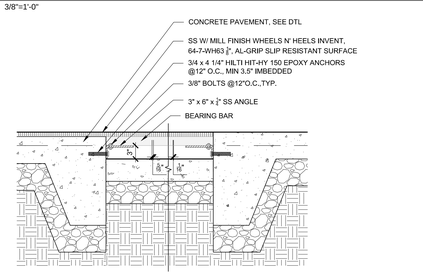




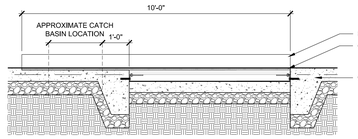
7 WATER FEATURE
1/2"=1'-0"



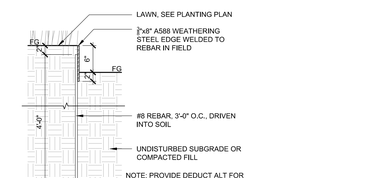
8 FLOW-THROUGH CURB AND GRATE PLAN
3/8"=1'-0"



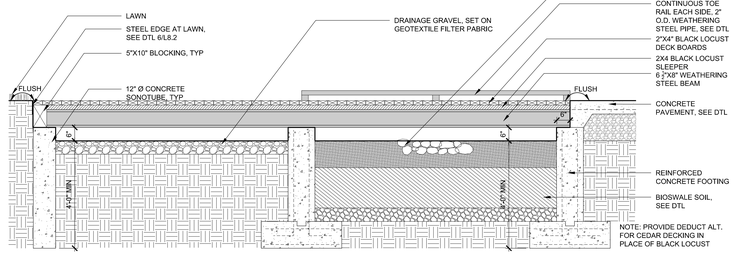
9 FLOW-THROUGH GRATE
1"=1'-0"



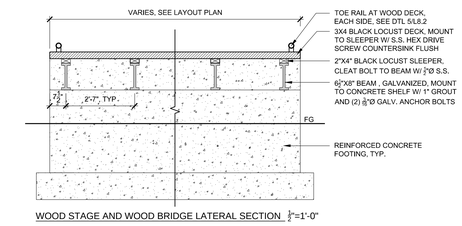
10 FLOW-THROUGH CURB AND GRATE SECTION
1/2"=1'-0"



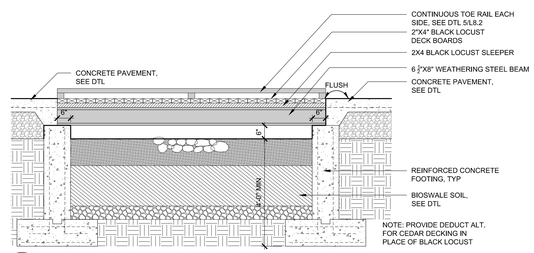
2 STEEL EDGE AT BIOSWALE
1"=1'-0"



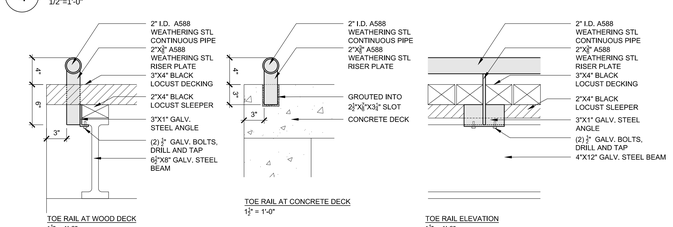
3 WOOD STAGE
1/2"=1'-0"



WOOD STAGE AND WOOD BRIDGE LATERAL SECTION ¾"=1'-0"



4 WOOD BRIDGE
1/2"=1'-0"



5 TOE RAIL
1 1/2"=1'-0"

STEPHEN STIMSON ASSOCIATES LANDSCAPE ARCHITECTS

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1	12.11.14	95% DD CHECK SET

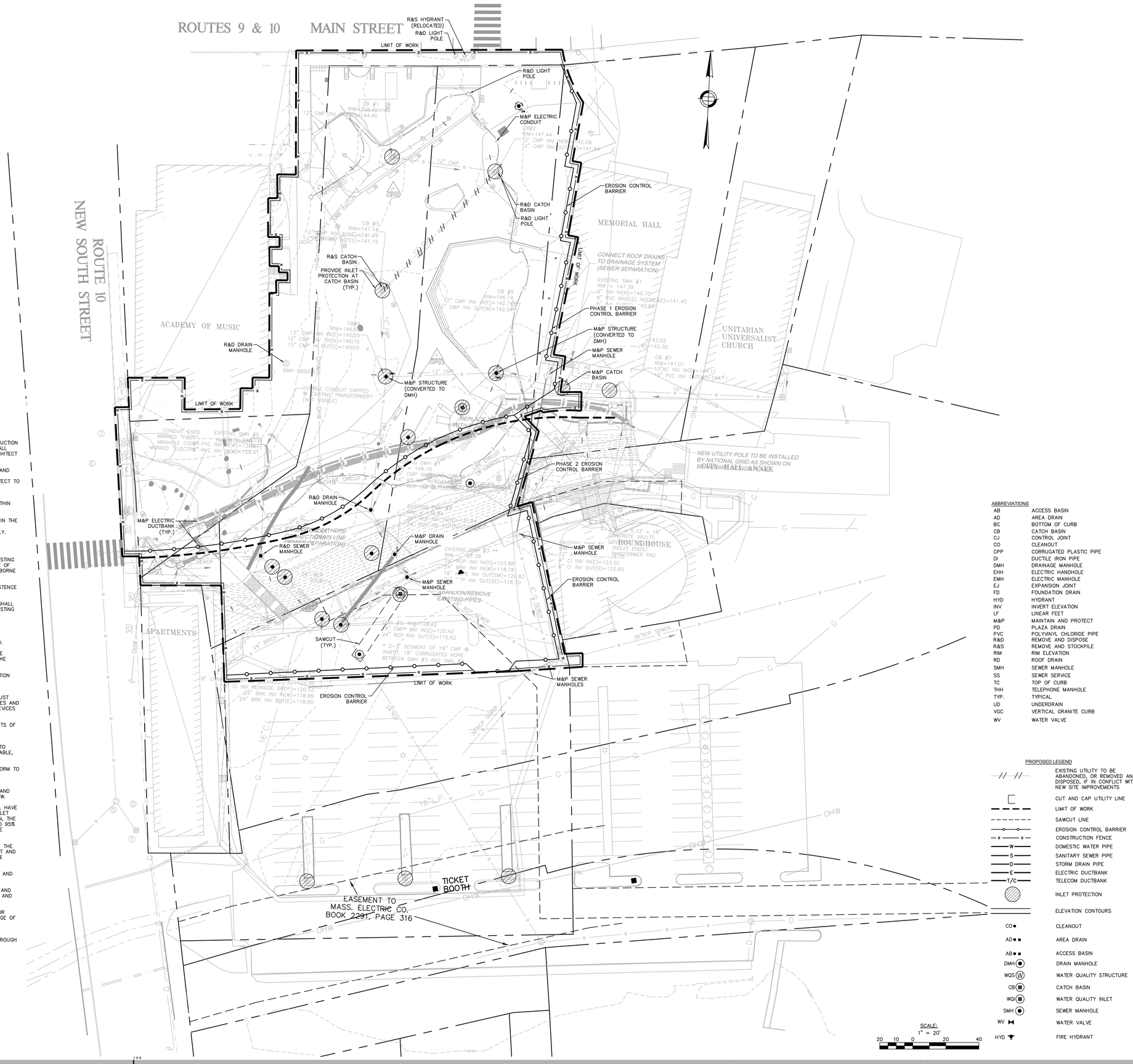
ISSUE	DATE	DESCRIPTION
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PULASKI PARK
NORTHAMPTON , MA

SCALE	AS NOTED
DATE	02.18.2015
DRAWN BY	GS, AD, SL, JF, ND
REVIEWED BY	LS, SS

DESIGN DEVELOPMENT

BIOSWALE & WATER FEATURE DETAILS — **L8.2**



DEMOLITION NOTES:

1. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS. THE CONTRACTOR SHALL ALSO PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE ARCHITECT AS REQUIRED.
2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL WALK THE SITE WITH THE ARCHITECT TO GAIN A THOROUGH UNDERSTANDING OF THE PROJECT, INCLUDING ANY SPECIAL CONDITIONS AND CONSTRAINTS.
3. SITE PREPARATION AND DEMOLITION SHALL INCLUDE THOSE AREAS WITHIN THE LIMIT OF WORK LINE AS SHOWN ON THIS CONTRACT.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL CONDITIONS IN THE FIELD AND REPORT DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE OWNER OR OWNER'S REPRESENTATION IMMEDIATELY.
5. THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON PLANS ARE DIAGRAMMATIC ONLY, AND ALL UTILITIES MAY NOT BE SHOWN. THE CONTRACTOR SHALL CONTACT THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANY TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ANY DAMAGE DUE TO FAILURE OF THE CONTRACTOR TO CONTACT THE PROPER AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR.
6. CARE SHOULD BE TAKEN IN ALL EXCAVATIONS DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES.
7. EXCAVATION REQUIRED WITHIN PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST TO OWNER.
8. REMOVE AND STOCKPILE ALL EXISTING SITE LIGHTS, BENCHES, TRASH RECEPTACLES, TRAFFIC SIGNS, GRANITE CURB, AND OTHER SITE IMPROVEMENTS WITHIN LIMIT OF WORK LINE UNLESS OTHERWISE NOTED.
9. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
10. CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING DEMOLITION.
11. CONTRACTOR SHALL SUPPLY AND MAINTAIN FOR THE DURATION OF DEMOLITION ALL NECESSARY DEVICES FOR EROSION, SEDIMENT AND DUST CONTROL, ETC., INCLUDING THOSE DEVICES NECESSARY FOR STOCKPILES AND PROTECTION OF ADJACENT PUBLIC WAYS, AND SHALL REMOVE THE DEVICES AFTER PROJECT COMPLETION.
12. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE HIS EFFORTS OF THE DEMOLITION AND RELATION OF UTILITIES WITH ALL TRADES, IF APPLICABLE.
13. ALL ITEMS REQUIRING REMOVAL SHALL BE REMOVED TO FULL DEPTH TO INCLUDE BASE MATERIAL AND FOOTINGS OR FOUNDATIONS AS APPLICABLE, AND LEGALLY DISPOSED OF OFFSITE BY CONTRACTOR.
14. UTILITY PIPES DESIGNATED TO BE ABANDONED IN PLACE SHALL CONFORM TO THE CITY OF NORTHHAMPTON STANDARDS.
15. UTILITY PIPES DESIGNATED TO BE REMOVED SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF THE ENTIRE LENGTH OF PIPE AND BACKFILL AND 95% COMPACTION OF THE VOID WITH ORDINARY BORROW.
16. UTILITY STRUCTURES DESIGNATED TO BE ABANDONED IN PLACE SHALL HAVE THEIR CAST IRON CASTINGS REMOVED AND DISPOSED, INLET AND OUTLET PIPES PLUGGED, THE BOTTOM OF THE STRUCTURES SHALL BE BROKEN, THE VOID OF THE STRUCTURES SHALL BE BACKFILLED AND COMPACTED TO 95% WITH ORDINARY BORROW, AND THE TOP OF THE STRUCTURE SHALL BE REMOVED SO THAT IT IS AT LEAST 36 INCHES BELOW FINISH GRADE.
17. UTILITY STRUCTURES DESIGNATED TO BE REMOVED SHALL CONSIST OF THE REMOVAL AND DISPOSAL OF CAST IRON CASTINGS, PLUGGING OF INLET AND OUTLET PIPES, REMOVAL OF THE STRUCTURE, AND BACKFILL AND 95% COMPACTION OF THE VOID WITH ORDINARY BORROW.
18. TREE AND SHRUB PROTECTION SEE LANDSCAPE ARCHITECT DRAWINGS AND SPECIFICATIONS. .
19. ALL EXISTING TREES AND SHRUBS TO REMAIN SHALL BE PROTECTED, AND MAINTAINED THROUGHOUT THE TIME OF CONSTRUCTION, AS SPECIFIED AND DIRECTED BY THE LANDSCAPE ARCHITECT.
20. AT ALL LOCATIONS WHERE EXISTING CURBING, CONCRETE PAVEMENT OR BITUMINOUS CONCRETE ROADWAY ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE.
21. EXTEND DESIGNATED LIMIT OF WORK AS NECESSARY TO ACCOMPLISH ROUGH GRADING, EROSION CONTROL, TREE PROTECTION, AND SITE WORK AS REQUIRED BY THESE DRAWINGS AND SPECIFICATIONS.

ABBREVIATIONS

AB	ACCESS BASIN
AD	AREA DRAIN
BC	BOTTOM OF CURB
CB	CATCH BASIN
CJ	CONTROL JOINT
CO	CLEANOUT
CPP	CORRUGATED PLASTIC PIPE
DI	DUCTILE IRON PIPE
DMH	DRAINAGE MANHOLE
EHH	ELECTRIC HANDHOLE
EMH	ELECTRIC MANHOLE
EJ	EXPANSION JOINT
FD	FOUNDATION DRAIN
HYD	HYDRANT
INV	INVERT ELEVATION
LF	LINEAR FEET
M&P	MAINTAIN AND PROTECT
PD	PLAZA DRAIN
PVC	POLYVINYL CHLORIDE PIPE
R&D	REMOVE AND DISPOSE
R&S	REMOVE AND STOCKPILE
RIM	RIM ELEVATION
RD	ROOF DRAIN
SMH	SEWER MANHOLE
SS	SEWER SERVICE
TC	TOP OF CURB
THH	TELEPHONE MANHOLE
TYP.	TYPICAL
UD	UNDERDRAIN
VGC	VERTICAL GRANITE CURB
WV	WATER VALVE

PROPOSED LEGEND

- EXISTING UTILITY TO BE ABANDONED, OR REMOVED AND DISPOSED, IF IN CONFLICT WITH NEW SITE IMPROVEMENTS
- CUT AND CAP UTILITY LINE
- LIMIT OF WORK
- SAWCUT LINE
- EROSION CONTROL BARRIER
- CONSTRUCTION FENCE
- DOMESTIC WATER PIPE
- SANITARY SEWER PIPE
- STORM DRAIN PIPE
- ELECTRIC DUCTBANK
- TELECOM DUCTBANK
- INLET PROTECTION
- ELEVATION CONTOURS
- CLEANOUT
- AREA DRAIN
- ACCESS BASIN
- DRAIN MANHOLE
- WATER QUALITY STRUCTURE
- CATCH BASIN
- WATER QUALITY INLET
- SEWER MANHOLE
- WATER VALVE
- FIRE HYDRANT

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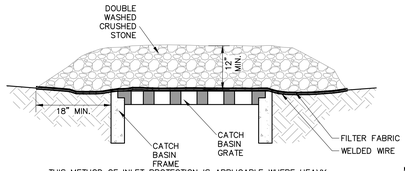
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6			14		
5			13		
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3			11		
2	02.13.15	100% DD SET	10		
1	12.11.14	95% DD CHECK SET	9		

PULASKI PARK
NORTHAMPTON . MA

SCALE 1" = 20'
DATE 02.18.2015
DRAWN BY TKP
REVIEWED BY SAS

DESIGN DEVELOPMENT

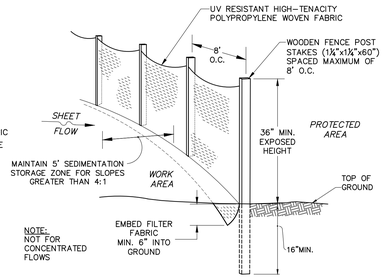
SITE UTILITY DEMOLITION & EROSION CONTROL PLAN C1.00



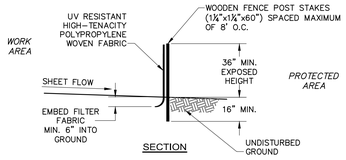
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS. THIS METHOD NOT ACCEPTABLE IN ACTIVE TRAFFIC AREAS.

INLET PROTECTION (1)
CATCH BASIN W/ GRAVEL

NOT TO SCALE



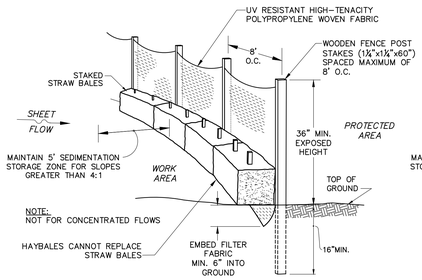
PERSPECTIVE VIEW



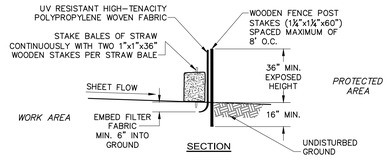
SECTION

PERIMETER PROTECTION BARRIER (A)
SILT FENCE DETAIL

NOT TO SCALE



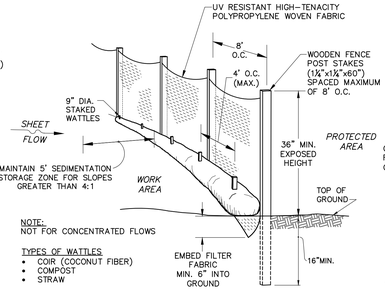
PERSPECTIVE VIEW



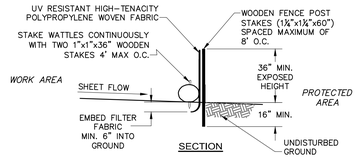
SECTION

PERIMETER PROTECTION BARRIER (B)
SILT FENCE DETAIL WITH STRAW BALE

NOT TO SCALE



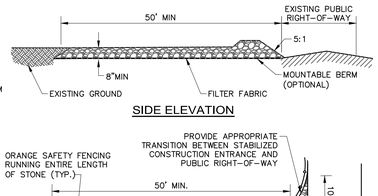
PERSPECTIVE VIEW



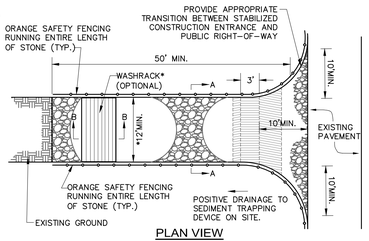
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PERIMETER PROTECTION BARRIER (C)
SILT FENCE DETAIL WITH WATTLES

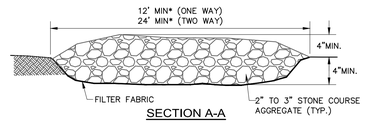
NOT TO SCALE



SIDE ELEVATION

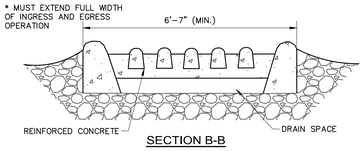


PLAN VIEW



SECTION A-A

* MUST EXTEND FULL WIDTH OF INGRESS AND EGRESS OPERATION



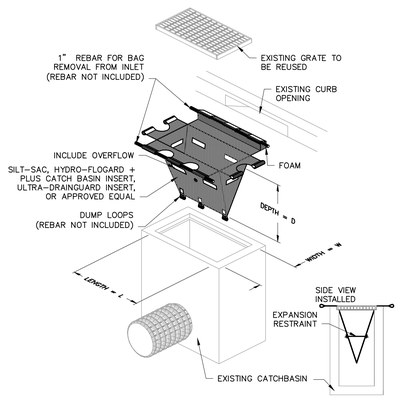
SECTION B-B

CONSTRUCTION SPECIFICATIONS

1. STONE SIZE – USE 2" TO 3" STONE.
2. LENGTH – GREATER THAN OR EQUAL TO 50 FEET
3. THICKNESS – 8"
4. WIDTH – TWELVE FOOT MINIMUM (ONE WAY), TWENTY FOUR FOOT MINIMUM (TWO WAY), BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM SHALL BE PERMITTED.
6. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
7. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED.

STABILIZED CONSTRUCTION ENTRANCE

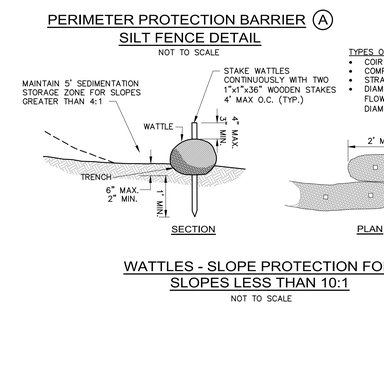
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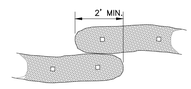
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS SHEET, OVERLAND OR CONCENTRATED FLOWS (NOT GREATER THAN 1 CFS). THE METHOD CAN DRAIN FLAT AREA TO STEEP SLOPES. INLET CAPACITY WILL BE DECREASED WITH THIS METHOD AND THE CONTRACTOR SHALL EXPECT PONDING DURING HIGH FLOW EVENTS.

INLET PROTECTION (2)
CATCH BASIN W/ SILTATION SACK

NOT TO SCALE



SECTION

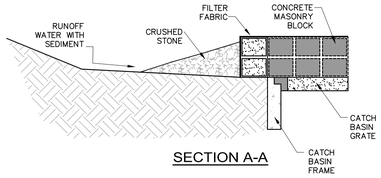


PLAN

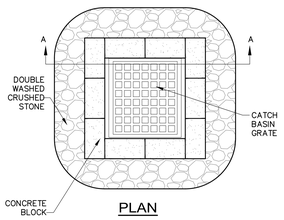
WATTLES - SLOPE PROTECTION FOR SLOPES LESS THAN 10:1

NOT TO SCALE

TYPES OF WATTLES
- COIR (COCONUT FIBER)
- COMPOST
- STRAW
- DIAMETER BASED FLOW/MANUFACTURE MINIMUM DIAMETER 12" RECOMMENDATIONS



SECTION A-A

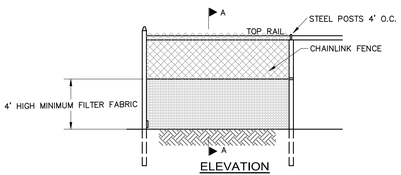


PLAN

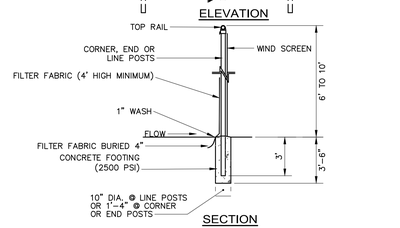
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND STRUCTURE.

INLET PROTECTION (3)
CATCH BASIN W/ BLOCK AND GRAVEL

NOT TO SCALE



ELEVATION

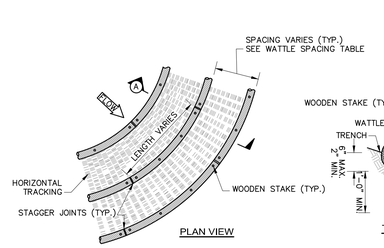


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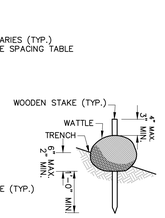
1. CHAINLINK FENCE SHALL BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES.
2. FILTER FABRIC SHALL BE FASTENED SECURELY TO CHAINLINK FENCE WITH TIES SPACED HORIZONTALLY 24" AS THE TOP AND MIDSECTION.
3. WHEN TWO SECTIONS OF FILTER FABIRC ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6"
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL SHALL BE REMOVED WHEN SEDIMENT BUILD-UP REACHES 50% OF THE HEIGHT OF THE FILTER FABRIC.
5. MAINTENANCE OF SILT FENCE SHALL BE RECORDED TO IN THE SWPPP

EROSION CONTROL BARRIER (D)
SUPER SILT FENCE

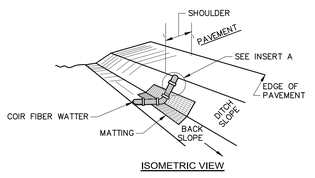
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PLAN VIEW



TYPICAL SECTION
WATTLE DETAIL

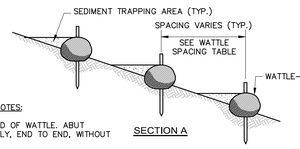


ISOMETRIC VIEW

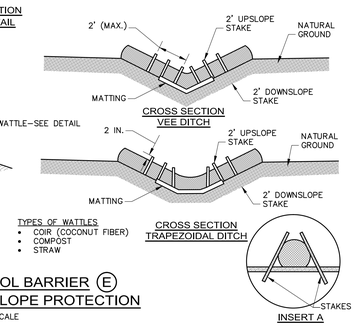
WATTLE SPACING TABLE	
SLOPE	MAX. SPACING
1:1	10'-0"
2:1	20'-0"
3:1	30'-0"
4:1	40'-0"

WATTLE SLOPE PROTECTION NOTES:

1. SECURELY KNOT EACH END OF WATTLE. ABUT ADJACENT WATTLES TIGHTLY, END TO END, WITHOUT OVERLAPPING THE ENDS.
2. PILOT HOLES MAY BE DRIVEN THROUGH THE WATTLES AND INTO THE SOIL WHEN SOIL CONDITIONS REQUIRE
3. WATTLES SHALL BE INSPECTED REGULARLY, AND IMMEDIATELY AFTER A RAINFALL PRODUCES RUNOFF, TO ENSURE THEY REMAIN THOROUGHLY ENTRENCHED AND IN CONTACT WITH THE SOIL.
4. ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.



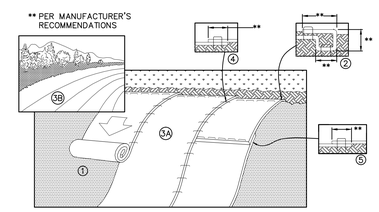
SECTION A



TYPES OF WATTLES
- COIR (COCONUT FIBER)
- COMPOST
- STRAW

EROSION CONTROL BARRIER (E)
WATTLES - STEEP SLOPE PROTECTION

NOT TO SCALE



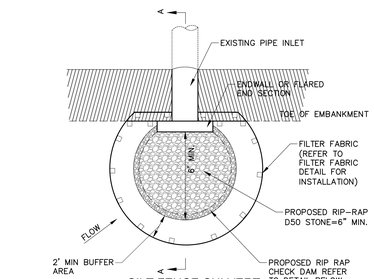
SLOPE INSTALLATION

NOTES:

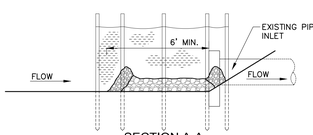
1. PREPARE SOIL BEFORE INSTALLING EROSION CONTROL BLANKETS (ECB's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE ECB's IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING PORTION OF ECB's BACK OVER SEED AND COMPACTED SOIL. SECURE ECB's OVER COMPACTED SOIL WITH A ROW OF STAKES/STAPLES SPACED ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATIONS ACROSS THE WIDTH OF THE ECB's.
3. ROLL THE ECB's DOWN (A) OR HORIZONTALLY (B) ACROSS THE SLOPE. ECB's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL ECB's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAKES/STAPLES IN APPROPRIATE LOCATIONS AS SHOWN ON THE STAKE/STAPLE PATTERN GUIDE.
4. THE EDGES OF PARALLEL ECB's MUST BE STAKED/STAPLED WITH OVERLAP DEPENDING ON ECB's TYPE. SEE THE MANUFACTURER'S RECOMMENDATIONS.
5. CONSECUTIVE ECB's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN OVERLAP (SEE THE MANUFACTURER'S RECOMMENDATIONS). STAKE/STAPLE THROUGH OVERLAPPED AREA, ACROSS ENTIRE ECB's WIDTH PER MANUFACTURER'S RECOMMENDATIONS.
6. IN LOOSE SOIL CONDITIONS, THE USE OF STAKE OR STAPLE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE ECB's.
7. THE CONTRACTOR SHALL FOLLOW ALL INSTALLATION INSTRUCTIONS AS RECOMMENDED BY THE MANUFACTURER.

TEMPORARY EROSION CONTROL BLANKET FOR STEEP SLOPES DETAIL

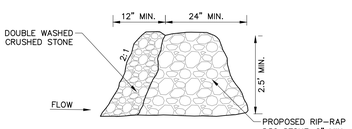
NOT TO SCALE



SILT FENCE CULVERT
INLET PROTECTION



SECTION A-A



RIP-RAP CHECK DAM

NOT TO SCALE

0 10 20 30 40 50 100

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2	02.13.15	100% DD SET
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PULASKI PARK
NORTHAMPTON . MA

SCALE: NTS
DATE: 02.18.2015
DRAWN BY: TRP
REVIEWED BY: SAB

DESIGN DEVELOPMENT

EROSION CONTROL DETAILS

C1.01

SEDIMENTATION AND EROSION CONTROL NOTES

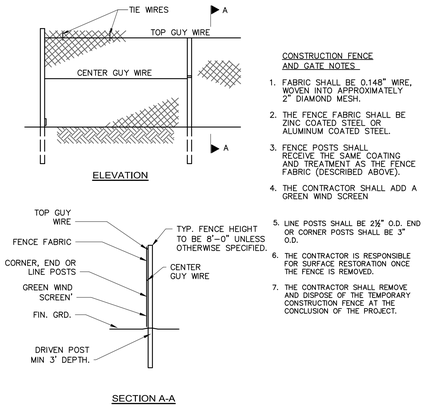
1. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH PUBLISHED EROSION CONTROL AND SEDIMENT GUIDELINES FOR MASSACHUSETTS (SEE REFERENCE BELOW, NOTE #7).
2. ANY EROSION AND SEDIMENT CONTROL MEASURES FOR THE STABILIZATION OF SLOPES ARE TEMPORARY FOR CONSTRUCTION PHASES ONLY. SEE GRADING PLAN FOR FINAL STABILIZATION OF SLOPES.
3. SEDIMENT CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF AND DURING ALL PHASES OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO AND IMMEDIATELY AFTER ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE SITE.
4. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES SHALL BE PROVIDED TO ENSURE THAT THE INTENDED PURPOSE IS ACCOMPLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEDIMENT LEAVING THE LIMIT OF WORK. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.
5. ALL POINTS OF CONSTRUCTION INGRESS OR EGRESS WILL BE PROTECTED WITH A STABILIZED CONSTRUCTION ENTRANCE TO PREVENT TRACKING OF MUD ONTO PUBLIC WAYS.
6. ALL SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM DRAINAGE SYSTEM (I.E. THROUGH THE USE OF STRAW BALES, CATCH BASIN SEDIMENT TRAPS, GRAVEL, BOARDS OR OTHER APPLICABLE METHODS).
7. THE CONTRACTOR INSTALLING THE ABOVE SHALL OBTAIN AND FOLLOW THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS" PREPARED BY DEPARTMENT OF ENVIRONMENTAL PROTECTION, BUREAU OF RESOURCE PROTECTION, DATED MAY 1997, REPRINTED MAY 2003 (OR LATEST EDITION) AND THE 2012 NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES, OR LATEST EDITION.
8. ALL DRAINAGE SWALES AND GROUND SURFACES WITHIN THE LIMIT OF WORK SHALL BE PROTECTED.
9. AFTER ANY SIGNIFICANT RAINFALL (0.25" OR GREATER), SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED FOR INTEGRITY. ANY DAMAGED DEVICES SHALL BE CORRECTED IMMEDIATELY.
10. ALL STOCKPILES SHALL BE PROTECTED AND LOCATED A MINIMUM OF 100' AWAY FROM EXISTING WATER BODIES OR WETLANDS & WITHIN THE LIMIT OF WORK. SOIL STOCKPILES SHALL BE PROTECTED FROM CONTACT WITH ONSITE STORMWATER RUNOFF USING TEMPORARY PERIMETER SEDIMENT BARRIERS. A COVER (TARP) OR APPROPRIATE TEMPORARY STABILIZATION WILL BE PROVIDED TO MINIMIZE SEDIMENT DISCHARGE.
11. STABILIZED PORTIONS OF A SITE SHALL BE INSPECTED AT LEAST ONCE PER MONTH.
12. ANY SEDIMENT TRACKED ONTO PAVED AREAS SHALL BE SWEPT AT THE END OF EACH WORKING DAY.
13. ALL DEBRIS GENERATED DURING SITE PREPARATION ACTIVITIES SHALL BE LEGALLY DISPOSED OF OFF-SITE.
14. ALL TOPSOIL ENCOUNTERED WITHIN THE WORK AREA SHALL BE STRIPPED TO ITS FULL DEPTH AND STOCKPILED FOR REUSE. TOPSOIL NOT NEEDED AFTER COMPLETION OF ALL FINAL TOPSOIL SPREADING AND GRASSING SHALL BE REMOVED FROM THE SITE AND LEGALLY RECYCLED OR DISPOSED OF. TOPSOIL PILES SHALL REMAIN SEGREGATED FROM EXCAVATED SUBSURFACE SOIL MATERIALS.
15. TEMPORARY DIVERSION DITCHES, PERMANENT DITCHES, CHANNELS, EMBANKMENTS AND ANY DENUDED SURFACE WHICH WILL BE EXPOSED FOR A PERIOD OF 14 CALENDAR DAYS OR MORE SHALL BE CONSIDERED CRITICAL VEGETATION AREAS. THESE AREAS SHALL BE MULCHED WITH STRAW. MULCH SHALL BE SPREAD UNIFORMLY IN A CONTINUOUS BLANKET OF SUFFICIENT THICKNESS TO COMPLETELY HIDE THE SOIL FROM VIEW.
16. AN EROSION CONTROL BARRIER SHALL BE INSTALLED ALONG THE EDGE OF PROPOSED DEVELOPMENT AS INDICATED IN THE PLAN PRIOR TO COMMENCEMENT OF DEMOLITION OR CONSTRUCTION OPERATIONS.
17. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL EROSION AND SEDIMENT CONTROLS AT THE COMPLETION OF SITE CONSTRUCTION.
18. MEANS OF EROSION AND SEDIMENT PROTECTION AS NOTED ON THE DRAWINGS INDICATE THE MINIMUM PROVISIONS NECESSARY. ADDITIONAL MEANS OF PROTECTION SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED FOR CONTINUED OR UNFORESEEN EROSION PROBLEMS, AT NO ADDITIONAL EXPENSE TO THE OWNER.
19. THE CONTRACTOR SHALL USE TEMPORARY SEEDING, MULCHING OR OTHER APPROVED STABILIZATION MEASURES TO PROTECT EXPOSED AREAS DURING PROLONGED CONSTRUCTION OR OTHER LAND DISTURBANCE. STOCKPILES THAT WILL BE EXPOSED FOR LONGER THAN 14 CALENDAR DAYS SHALL BE SEEDED WITH AN ANNUAL RYE.
20. SEE LANDSCAPE DRAWINGS FOR TREE PROTECTION DETAILS.

LEGEND

- EROSION CONTROL BARRIER
- CONSTRUCTION FENCE
- INLET PROTECTION (PROVIDE ON ALL EXISTING AND PROPOSED CATCH BASINS AND AREA DRAINS)
- LIMIT OF WORK
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTION GATE
- ORANGE SAFETY FENCING

ABBREVIATIONS

CB	CATCH BASIN
DMH	DRAIN MANHOLE
TYP	TYPICAL



ELEVATION

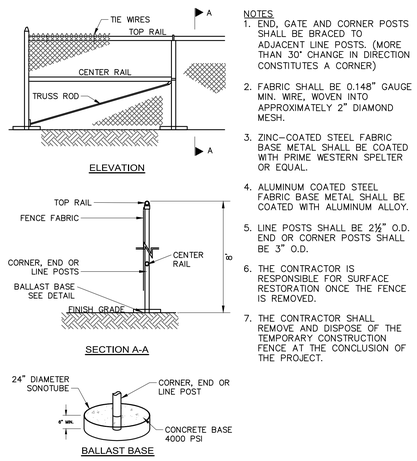
SECTION A-A

CONSTRUCTION FENCE AND GATE NOTES

1. FABRIC SHALL BE 0.148" WIRE, WOVEN INTO APPROXIMATELY 2" DIAMOND MESH.
2. THE FENCE FABRIC SHALL BE ZINC COATED STEEL OR ALUMINUM COATED STEEL.
3. FENCE POSTS SHALL RECEIVE THE SAME COATING AND TREATMENT AS THE FENCE FABRIC (DESCRIBED ABOVE).
4. THE CONTRACTOR SHALL ADD A GREEN WIND SCREEN
5. LINE POSTS SHALL BE 2½" O.D. END OR CORNER POSTS SHALL BE 3" O.D.
6. THE CONTRACTOR IS RESPONSIBLE FOR SURFACE RESTORATION ONCE THE FENCE IS REMOVED.
7. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE TEMPORARY CONSTRUCTION FENCE AT THE CONCLUSION OF THE PROJECT.

CHAIN LINK CONSTRUCTION FENCE

NOT TO SCALE



ELEVATION

SECTION A-A

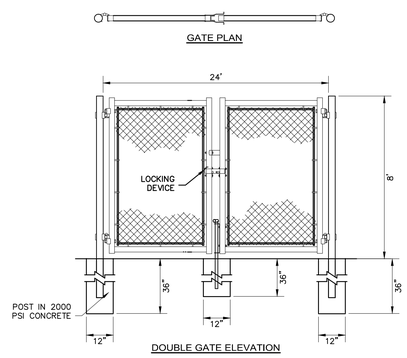
BALLAST BASE

NOTES

1. END, GATE AND CORNER POSTS SHALL BE BRACED TO ADJACENT LINE POSTS. (MORE THAN 30° CHANGE IN DIRECTION CONSTITUTES A CORNER)
2. FABRIC SHALL BE 0.148" GAUGE MIN. WIRE, WOVEN INTO APPROXIMATELY 2" DIAMOND MESH.
3. ZINC-COATED STEEL FABRIC BASE METAL SHALL BE COATED WITH PRIME WESTERN SPELTER OR EQUAL.
4. ALUMINUM COATED STEEL FABRIC BASE METAL SHALL BE COATED WITH ALUMINUM ALLOY.
5. LINE POSTS SHALL BE 2½" O.D. END OR CORNER POSTS SHALL BE 3" O.D.
6. THE CONTRACTOR IS RESPONSIBLE FOR SURFACE RESTORATION ONCE THE FENCE IS REMOVED.
7. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE TEMPORARY CONSTRUCTION FENCE AT THE CONCLUSION OF THE PROJECT.

TEMPORARY CONSTRUCTION CHAIN LINK FENCE WITH BALLAST BASE

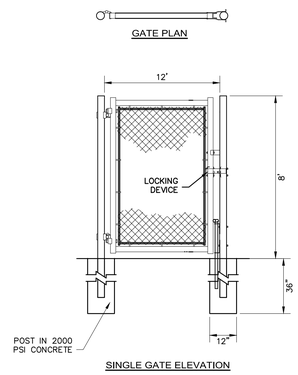
NOT TO SCALE



DOUBLE GATE ELEVATION

24' WIDE DOUBLE GATE

NOT TO SCALE



SINGLE GATE ELEVATION

12' WIDE EMERGENCY GATE

NOT TO SCALE

STEPHEN STIMSON ASSOCIATES LANDSCAPE ARCHITECTS
288 NORFOLK STREET CAMBRIDGE MA 02139 T 617 876 8960 F 617 876 8906
71 GATES ROAD PRINCETON MA 01541 T 617 876 8960 F 617 876 8906
WWW.STEPHENSTIMSON.COM

CIVIL ENGINEER
NITSCH ENGINEERING, INC.
2 CENTER PLAZA #430
BOSTON, MA 02108
P 617 338 0063

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3			11		
2	02.13.15	100% DD SET	10		
1	12.11.14	95% DD CHECK SET	9		

PULASKI PARK
NORTHAMPTON . MA

SCALE: NTS
DATE: 02.18.2015
DRAWN BY: TRP
REVIEWED BY: SAB

DESIGN DEVELOPMENT

EROSION CONTROL DETAILS

C1.02



UTILITY NOTES:

1. THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES SHALL BE CONSIDERED APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY UTILITY CONNECTIONS OR CROSSINGS OF PROPOSED UTILITIES AND EXISTING UTILITIES. THE CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES RELATIVE TO THE LOCATIONS AND ELEVATIONS OF THEIR LINES. THE CONTRACTOR SHALL KEEP A RECORD OF ANY DISCREPANCIES OR CHANGES IN THE LOCATIONS OF ANY UTILITIES SHOWN OR ENCOUNTERED DURING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER AND NITSCH ENGINEERING.
2. THE CONTRACTOR SHALL COMPLY WITH MASSACHUSETTS GENERAL LAWS CHAPTER 82, SECTION 40, AS AMENDED, WHICH STATES THAT NO ONE MAY EXCAVATE IN THE COMMONWEALTH OF MASSACHUSETTS EXCEPT IN AN EMERGENCY WITHOUT 72 HOURS NOTICE, EXCLUSIVE OF SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS, TO NATURAL GAS PIPELINE COMPANIES, AND MUNICIPAL UTILITY DEPARMENTS THAT SUPPLY GAS, ELECTRICITY, TELEPHONE, OR CABLE TELEVISION SERVICE IN OR TO THE CITY OR TOWN WHERE THE EXCAVATION IS TO BE MADE. THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-DIG-SAFE.
3. ALL UTILITY CONNECTIONS ARE SUBJECT TO THE APPROVAL OF, AND GRANTING OF PERMITS BY, THE CITY/ OF NORTHAMPTON. IT SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO SEE THAT ALL PERMITS AND APPROVALS ARE OBTAINED BEFORE STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS FOR AND FOR PERFORMING ANY NECESSARY WORK INVOLVED IN CONNECTION WITH OR THE DISCONTINUANCE OF ANY UTILITIES WITHIN THE JURISDICTION OF ANY UTILITY COMPANIES, SUCH AS ELECTRICITY, TELEPHONE, WATER, GAS, AND ANY SYSTEM OR SYSTEMS WHICH WILL BE AFFECTED BY THE WORK TO BE PERFORMED UNDER THIS CONTRACT. THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE AGENCIES, DEPARTMENTS, AND UTILITY COMPANIES, IN WRITING, AT LEAST 48 HOURS AND NOT MORE THAN 30 DAYS PRIOR TO ANY CONSTRUCTION.
4. CONSTRUCTION SHALL NOT INTERFERE WITH OR INTERRUPT UTILITIES WHICH ARE TO REMAIN IN OPERATION.
5. ALL WATER, SEWER, AND DRAIN WORK SHALL BE BE PERFORMED ACCORDING TO THE REQUIREMENTS AND STANDARD SPECIFICATIONS OF THE CITYOF NORTHAMPTON.
6. GAS, TELEPHONE AND ELECTRIC SERVICES ARE TO BE DESIGNED BY EACH UTILITY COMPANY IN COORDINATION WITH THE MECHANICAL, ELECTRIC AND PLUMBING CONSULTANTS. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES AND DESIGN OF NEW UTILITIES WITH ELECTRIC, CABLE TELEVISION AND TELECOMMUNICATION UTILITIES.
7. INSTALL WATER LINES WITH A MINIMUM OF FIVE FEET OF COVER AND A MAXIMUM OF SEVEN FEET COVER FROM THE FINAL DESIGN GRADES.
8. MAINTAIN 10 FEET HORIZONTAL SEPARATION AND 18" VERTICAL SEPARATION (WATER OVER SEWER) BETWEEN SEWER AND WATER LINES. WHEREVER THERE IS LESS THAN 10 FEET OF HORIZONTAL SEPARATION AND 18" OF VERTICAL SEPARATION BETWEEN A PROPOSED OR EXISTING SEWER LINE TO REMAIN AND A PROPOSED OR EXISTING WATER LINE TO REMAIN BOTH WATER MAIN AND SEWER MAIN SHALL BE CONSTRUCTED OF MECHANICAL JOINT CEMENT LINED DUCTILE IRON PIPE FOR A DISTANCE OF 10-FEET ON EITHER SIDE OF THE CROSSING. ONE (1) FULL LENGTH OF WATER PIPE SHALL BE CENTERED OVER THE SEWER AT THE CROSSING.
9. CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES EXCEPT THOSE NOTED TO BE ABANDONED AND/OR REMOVED & DISPOSED.
10. ALL ON-SITE UTILITIES SHALL BE INSTALLED UNDERGROUND UNLESS OTHERWISE NOTED.
11. MANHOLE FRAMES, COVERS, VALVES, CLEANOUTS, ETC. SHALL BE RAISED TO FINISHED GRADE PRIOR TO FINAL PAVING CONSTRUCTION OR GRADING.
12. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, REGULATIONS AND SAFETY CODES IN THE CONSTRUCTION OF ALL IMPROVEMENTS.

SEE SHEET C1.00 FOR LEGEND

GRADING SHOWN FOR INFORMATION ONLY

SCALE:
1" = 10'
10 5 0 10 20

STEPHEN STIMSON ASSOCIATES LANDSCAPE ARCHITECTS
288 NORFOLK STREET CAMBRIDGE MA 02139 T 617 876 8960 F 617 876 8906
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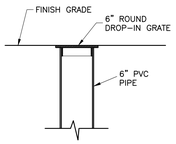
PULASKI PARK
NORTHAMPTON . MA

SCALE 1"=10'
DATE 02.18.2015
DRAWN BY TRP
REVIEWED BY SAS

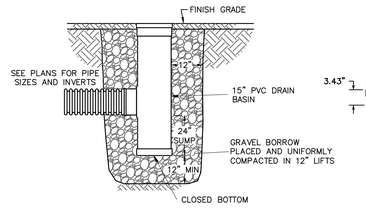
DESIGN DEVELOPMENT

SITE UTILITY PLAN C2.00

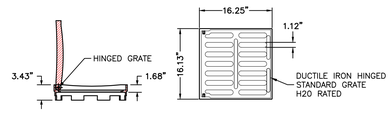

INV OUT=139.00
INV OUT=140.60
PHASE 1 CONNECTION
TW148.5
REPLACE SEWER WITH NEW SEWER
MATCHLINE PHASE 1 SEE NORTH PLAN
MATCHLINE PHASE 2 SEE SOUTH PLAN
STUB PHASE 2 TO JUST SOUTH OF ELECTRIC LINES, CAP END AND LEAVE MARKER AT PIPE END
DMH 200
RIM=142.50
INV IN(CB 100)=138.00
INV OUT=133.00
NEW UTILITY POLE TO BE INS
BY NATIONAL GRID AS SHOWN
BERKSHIRE DESIGN PLANS.
EXISTING SMH #5
RIM = 139.91
INV IN(E)=123.41
INV OUT(S)=123.31
EXISTING SMH #2
RIM = 128.20
12" AC INV IN(N)=124.70
6" CI INV OUT(S)=122.65
CONCRETE VAULTS
CONDUIT ENDS
TRANSFORMER PAD
ROUNDHOUSE
EXISTING SMH #4
RIM = 129.25
8" CMP INV IN(N)=125.30
CI INV IN(INSIDE DROP)=120.53
24" BRK INV IN(W)=118.95
24" BRK INV OUT(E)=118.90
EXISTING SMH #3
RIM = 128.87
2.5' SEGMENT OF CMP OUTLET, INVERT, 18" CMP CONNECTED HDPE BETWEEN DMH #3 AND SMH #3
EXISTING DMH #1
RIM = 146.30
CMP INVERT
EXISTING DMH #2
RIM = 146.49
CMP INVERT
EXISTING DMH #3
RIM = 146.44
CMP INVERT
EXISTING DMH #4
RIM = 147.17
CMP INVERT
EXISTING DMH #5
RIM = 151.41
CMP INVERT
EXISTING DMH #6
RIM = 147.17
CMP INVERT
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EXISTING DMH #8
RIM = 147.17
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RIM = 147.17
CMP INVERT
EXISTING DMH #10
RIM = 147.17
CMP INVERT
EXISTING DMH



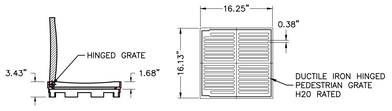
6" AREA DRAIN
NOT TO SCALE



SECTION VIEW



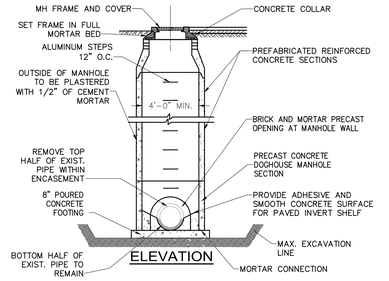
STANDARD GRATE



PEDESTRIAN GRATE

NOTES:
1. FRAME AND GRATE SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05 AND SHALL MEET H-20 LOAD RATING.
2. AREA DRAINS SHALL BE NYLOPLAST MODEL 2815 AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC., OR APPROVED EQUAL.
3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLANS AND DETAIL.
4. CASTINGS SHALL BE FURNISHED WITH A BLACK PAINT.

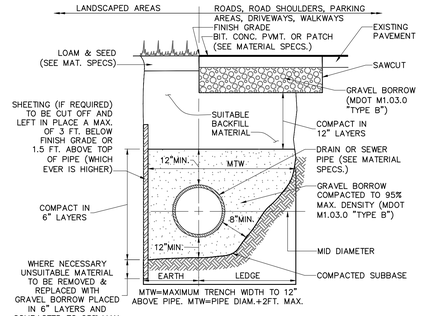
15" AREA DRAIN DETAIL
NOT TO SCALE



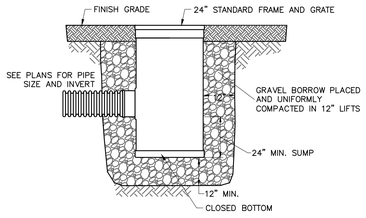
ELEVATION

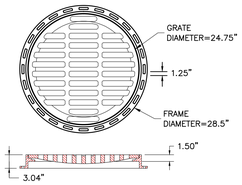
NOTES:
1. PREFABRICATED REINFORCED CONCRETE MANHOLE SECTIONS SHALL BE USED. THEY SHALL BE DESIGNED TO WITHSTAND AASHTO HS-20-44 LOADING.
2. SHOP DRAWINGS WILL BE REQUIRED TO BE SUBMITTED FOR APPROVAL. THE SHOP DRAWINGS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN MASSACHUSETTS.

DOGHOUSE MANHOLE DETAIL
NOT TO SCALE

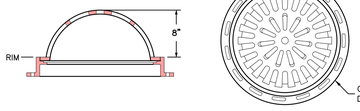


STANDARD TRENCH DETAIL FOR UTILITY PIPE
NOT TO SCALE





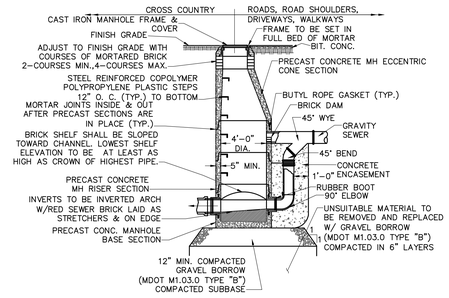
STANDARD GRATE



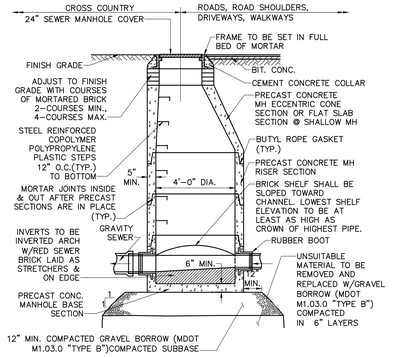
DOMED GRATE
FOR USE AT AD#140

NOTES:
1. GRATE AND FRAME SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05 AND SHALL MEET H-20 LOAD RATING.
2. AREA DRAINS SHALL BE NYLOPLAST MODEL 2824 AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC., OR APPROVED EQUAL.
3. AREA DRAINS SHALL BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
4. GRATE SHALL BE PROVIDED PAINTED BLACK.
5. SEE PLANS FOR LAYOUT OF DRAIN PIPES TO AREA DRAIN.

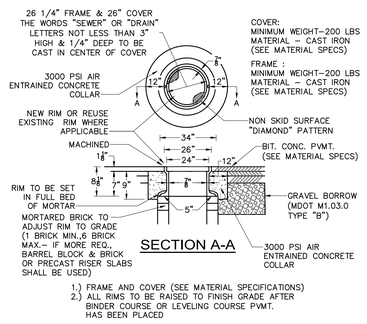
24" AREA DRAIN DETAIL
NOT TO SCALE



DROP SEWER MANHOLE DETAIL
NOT TO SCALE



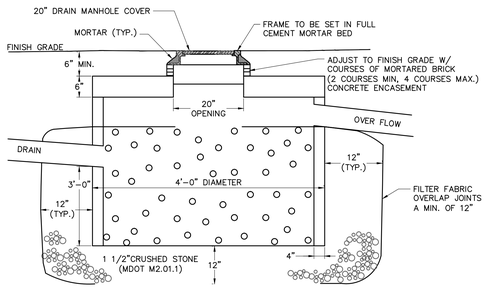
TYPICAL SEWER MANHOLE DETAIL
NOT TO SCALE



SECTION A-A

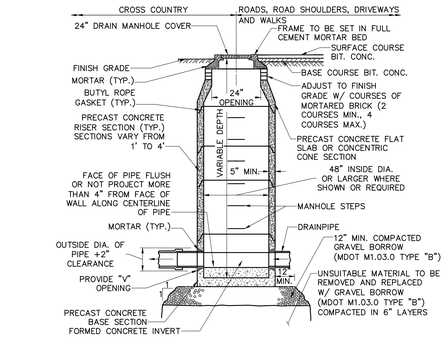
1.) FRAME AND COVER (SEE MATERIAL SPECIFICATIONS)
2.) ALL RIMS TO BE RAISED TO FINISH GRADE AFTER BINDER COURSE OR LEVELING COURSE PVMT. HAS BEEN PLACED

MANHOLE FRAME, COVER & SETTING DETAIL
NOT TO SCALE

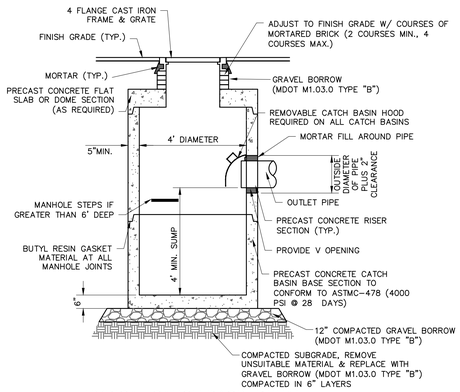


NOTES:
1. APPROXIMATE CAPACITY FOR EACH 3' SECTION; 160 GALLONS
2. NO BOTTOM
3. CONCRETE MINIMUM STRENGTH: 4,000 P.S.I. @ 28 DAYS
4. STEEL REINFORCEMENT: ASTM A-615, A-185, OR A-497, 1" MIN. COVER
5. DESIGN LOADING: AASHTO HS20-44

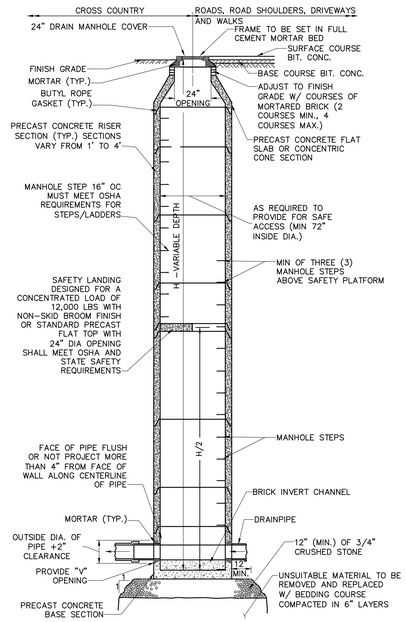
4'-0" OUTSIDE DIAMETER DRY WELL (MINI DRYWELL)
NOT TO SCALE



TYPICAL DRAIN MANHOLE DETAIL
NOT TO SCALE



TYPICAL CATCH BASIN DETAIL
NOT TO SCALE



MANHOLE OVER 16 FEET DEEP
NOT TO SCALE

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P 617 338 0063

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1	12.11.14	95% DD CHECK SET

ISSUE	DATE	DESCRIPTION
16		
15		
14		
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12		
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10		
9		

PULASKI PARK
NORTHAMPTON . MA

SCALE: NTS
DATE: 02.18.2015
DRAWN BY: TRP
REVIEWED BY: SAB

DESIGN DEVELOPMENT

CIVIL DETAILS

C4.00



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL
ES LCS RCS CS SS	Hunter PROS-06-PRS30-CV 5' strip spray
P Q H F	Hunter PROS-06-PRS30-CV 5' radius
P S T H F	Hunter PROS-06-PRS30-CV 8' radius
P S T H F	Hunter PROS-06-PRS30-CV 10' radius
P Q T H TT TQ	Hunter PROS-06-PRS30-CV 12' radius
P Q T H TT TQ FS FQ	Hunter PROS-06-PRS30-CV 15' radius
P Q T H F	Hunter PROS-06-PRS30-CV 17' radius
4 8 10 12 15 17	Hunter PROS-06-PRS30-CV ADJ
MP MP MP	Hunter MP2000 PROS-06-PRS40-CV

SYMBOL	MANUFACTURER/MODEL
	Hunter ICV-G-FS
	Hunter HQ-44RC-AW
HB	Murdock Yard Hydrant
	Nibco T-113-K
BF	Watts 909 1-1/2"
A	Hunter IC-1800-PED-SS
R	Hunter RAIN-CLIK
FS	Hunter HFS-208
F	Fountain Pump & Vault
M	Water Meter 1-1/2"
FP	Fountain Pump Switch (Indoors)
	Irrigation Lateral Line: PVC Class 200 (Size as Noted)
	2" Irrigation Mainline: PVC Class 200
	Pipe Sleeve: PVC Class 200
	Water Feature Power (In Conduit)

A1 — Controller & Station #
8 — Flow (gpm)
1" — Valve Size
Electric Valve Designator

IRRIGATION NOTES

1. SEE IRRIGATION DETAILS AND SPECIFICATIONS SECTION 328400 FOR ADDITIONAL REQUIRED INFORMATION.
2. COORDINATE FINAL LOCATION OF SPRINKLERS AND NOZZLES WITH FINAL APPROVED LANDSCAPE.
3. ALL PIPE AND VALVE LOCATIONS ARE DIAGRAMMATIC FOR CLARITY; CONTRACTOR SHALL FIELD VERIFY.
4. SPECIFIED VALVE BOXES WITHIN LAWN AREAS SHALL BE APPROVED BY LANDSCAPE ARCHITECT AND/OR OWNER'S REPRESENTATIVE
5. ALL CONTROL WIRE SHALL BE 14AWG GAUGE SINGLE STRAND; RED FOR SPRINKLERS, COMMON WIRE SHALL BE WHITE, SPARE WIRES, INSTALLED WHERE SHOWN, SHALL BE SINGLE STRAND BLUE.
6. IRRIGATION SYSTEM IS DESIGNED FOR MUNICIPAL WATER SUPPLY TO PROVIDE 40 GPM MAXIMUM FROM STREET SERVICE. SYSTEM TO PRODUCE 55-PSI DYNAMIC PRESSURE MAXIMUM AT IRRIGATION CONTRACTORS POINT OF CONNECTION. CONTRACTOR SHALL TEST DYNAMIC PRESSURE BEFORE STARTING WORK AND REPORT ANY DEVIATION TO THE OWNER'S REPRESENTATIVE BEFORE CONTINUING.
7. INSTALL NEW CONTROLLER ON WALL IN NEW PLASTIC ENCLOSURE AS DIRECTED BY OWNER'S REPRESENTATIVE. HARD WIRE TO 120 VOLT, DEDICATED 20-AMP CIRCUIT, POWER SUPPLY USING LICENSED ELECTRICIAN. ROUTE ALL ZONE AND SPARE WIRES TO CONTROLLER VIA 2-INCH CONDUIT.
8. ALL ABOVE GROUND WIRING SHALL BE INSTALLED IN RIGID, METALLIC CONDUIT FOR VANDALISM PROTECTION.
9. COORDINATE LOCATION OF ALL EXISTING AND FUTURE UTILITIES ON SITE. CONTACT PROPER AUTHORITIES AND UTILITY COMPANIES BEFORE THE START OF WORK.
10. FLUSH ALL LATERAL LINES BEFORE INSTALLING SPRINKLERS.
11. CONTRACTOR MUST SUBMIT SHOP DRAWINGS AS PER THE WRITTEN SPECIFICATIONS TO THE IRRIGATION CONSULTANT FOR APPROVAL PRIOR TO ORDERING MATERIAL AND BEGINNING WORK.
12. MATERIAL SUBSTITUTIONS WHICH VARY FROM THE SPECIFIED PRODUCTS MUST BE SUBMITTED TO THE IRRIGATION CONSULTANT FOR APPROVAL AS PART OF THE SUBMITTAL PROCESS.
13. ONCE APPROVED SUBMITTALS HAVE BEEN RETURNED TO THE CONTRACTOR, WORK MAY BEGIN. OWNER'S REPRESENTATIVE MUST BE NOTIFIED 7 DAYS IN ADVANCE OF THE START OF WORK TO COORDINATE ON-SITE SUPERVISION AND ADMINISTRATION.
14. FINAL LOCATION AND CONFIGURATION OF BACKFLOW PREVENTER AND WATER METER SHALL BE APPROVED BY OWNER'S REPRESENTATIVE AND PER LOCAL WATER DEPARTMENT.

IRRIGATION DESIGN PREPARED BY:
AQUEOUS CONSULTANTS, LLC
29 RIVER STREET, ANDOVER, MA 01810
MIKE@AQUEOUSCONSULTANTS.COM
(978) 809-6420

STEPHEN STIMSON ASSOCIATES LANDSCAPE ARCHITECTS
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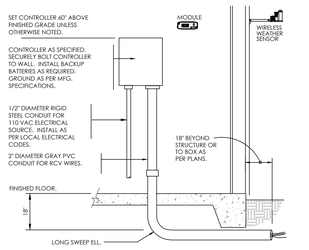
PULASKI PARK
NORTHAMPTON . MA

SCALE 1"=10'-0"
DATE 02.18.2015
DRAWN BY MI
REVIEWED BY MI

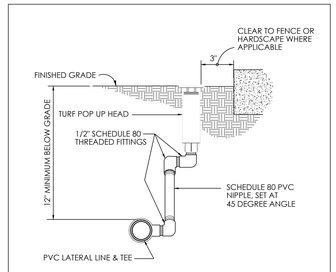
DESIGN DEVELOPMENT

IRRIGATION PLAN - NORTH

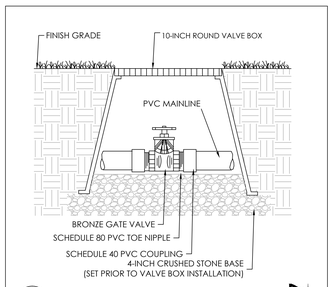
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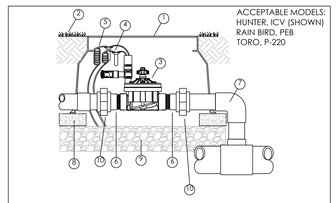
01 INDOOR IRRIGATION CONTROLLER
NOT TO SCALE 32 80 00 - Section 2.01



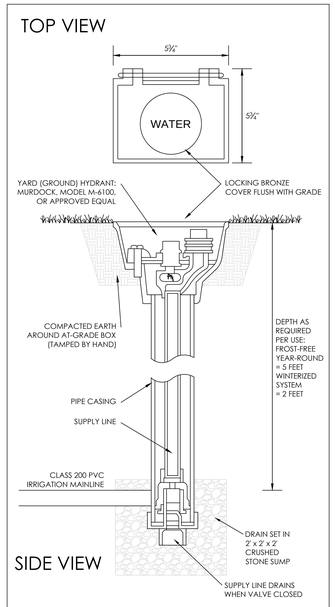
02 TURF SPRAY & MP ROTATOR ASSEMBLY
NOT TO SCALE 32 80 00 - Section 2.02



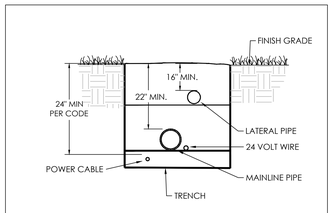
03 SMALL ISOLATION VALVE
NOT TO SCALE 32 80 00 - Section 2.03



04 ELECTRIC ZONE VALVES
NOT TO SCALE 32 80 00 - Section 2.04

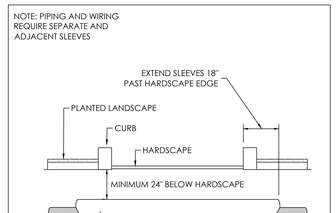


07 YARD (GROUND) HYDRANT
NOT TO SCALE 32 80 00 - Section 2.07

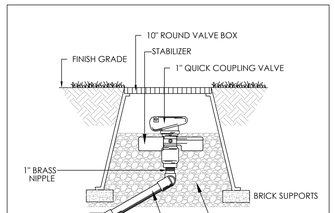


NOTES:
1. WIRE SHALL BE TAPED AT 12' INTERVALS
2. TIE LOOSE LOOP OF WIRE AT CHANGES OF DIRECTION

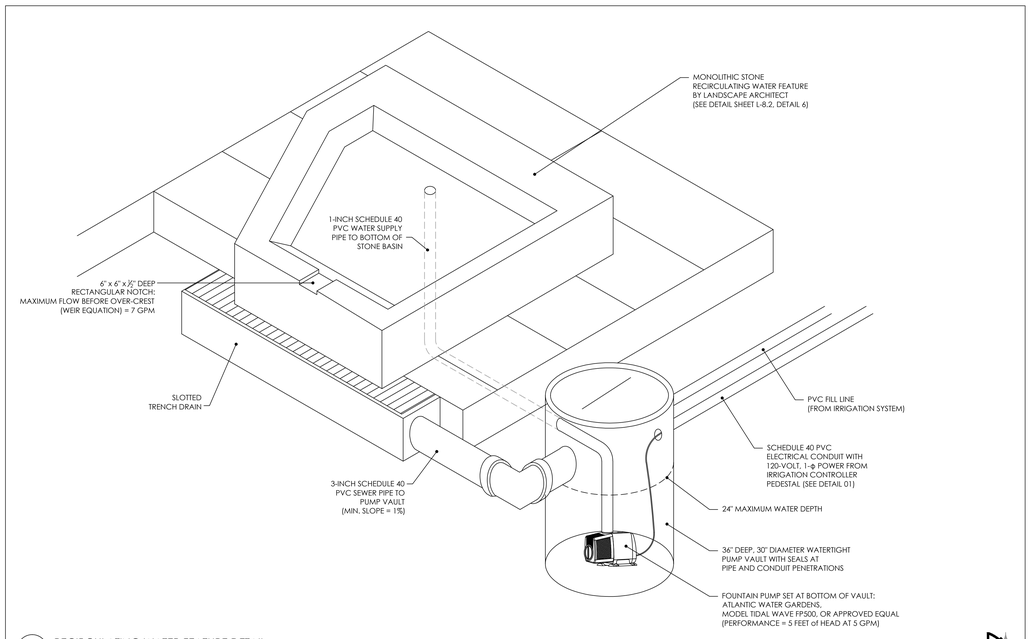
05 TYPICAL PIPE TRENCH CROSS-SECTION
NOT TO SCALE 32 80 00 - Section 2.05



06 TYPICAL SLEEVE LAYOUT
NOT TO SCALE 32 80 00 - Section 2.06



08 QUICK COUPLING VALVES
NOT TO SCALE 32 80 00 - Section 2.08



09 RECIRCULATING WATER FEATURE DETAIL
NOT TO SCALE 32 80 00 - Section 2.09

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0 10 20 30 40 50 100

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NORTHAMPTON . MA

SCALE AS NOTED
DATE 02.18.2015
DRAWN BY MI
REVIEWED BY MI

DESIGN DEVELOPMENT

IRRIGATION DETAILS

I2.0