

ARMORY PARK SPLASH PAD

LOWELL, MASSACHUSETTS

DRAWING LIST

LANDSCAPE :

- L0 COVER SHEET
- L0A NOTES
- L1.0 SITE DEMO AND PREPARATION PLAN
- L2.0 LAYOUT AND MATERIALS PLAN
- L3.0 GRADING PLAN
- L4.0 PLANTING PLAN
- LD-1 - LD-5 LANDSCAPE DETAILS
- P-001 PLUMBING LAYOUT PLAN

PREPARED BY:

Kyle Zick Landscape Architecture, Inc.
 36 Bromfield Street, Suite 202
 Boston, MA 02108
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 www.kylezick.com

CONSTRUCTION DOCUMENTS

OCTOBER 1, 2023

PROJECT SITE



LOCUS MAP

ARMORY PARK SPLASH PAD

50 WESTFORD STREET
 LOWELL, MA 01851



NO.	REVISION	DATE



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 Boston, MA 02108

LANDSCAPE ARCHITECT
 CONSTRUCTION DOCUMENTS

Job Number:
 Project: ARMORY PARK SPLASH PAD
 Drawn By: RB Checked By: KZ
 Date: OCTOBER 1 2023
 Scale: N.T.S.
 Drawing Title:

COVER

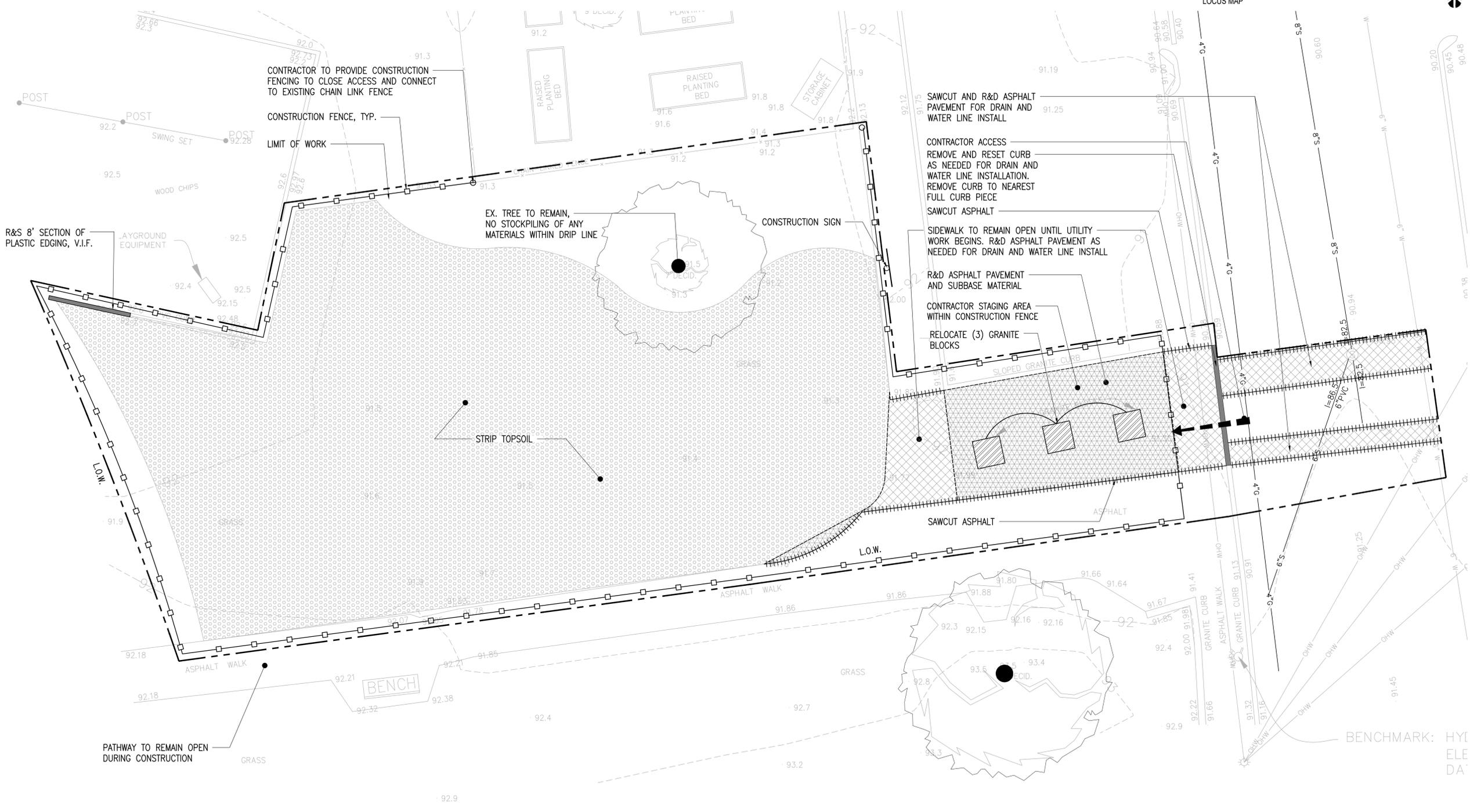
L0

LEGEND

L.O.W. LIMIT OF WORK	R&D BITUMINOUS CONCRETE
CONSTRUCTION FENCE	R&D BITUMINOUS CONCRETE AND REMOVE SUBBASE MATERIAL
SAWCUT LINE, TYP.	R&D REMOVE AND DISPOSE
STRIP TOPSOIL, TYP.	R&S REMOVE AND STOCKPILE
	R&R REMOVE AND RESET



**ARMORY PARK
SPLASH PAD**
50 WESTFORD STREET
LOWELL, MA 01851



- NOTES:**
- CONTRACTOR TO OBTAIN A STREET OPENING, TRENCH, WATER AND SEWER PERMIT FROM THE CITY ENGINEERS OFFICE PRIOR TO THE INSTALLATION OF THE WATER AND SEWER LINES.
 - CONTRACTOR IS RESPONSIBLE FOR ANY REQUIRED POLICE DETAIL AT NO ADDITIONAL COST TO THE OWNER.

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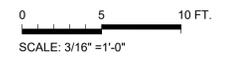
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Scale: 3/16"=1'-0"
Drawing Title:

SITE DEMO AND PREPARATION PLAN

L1.0

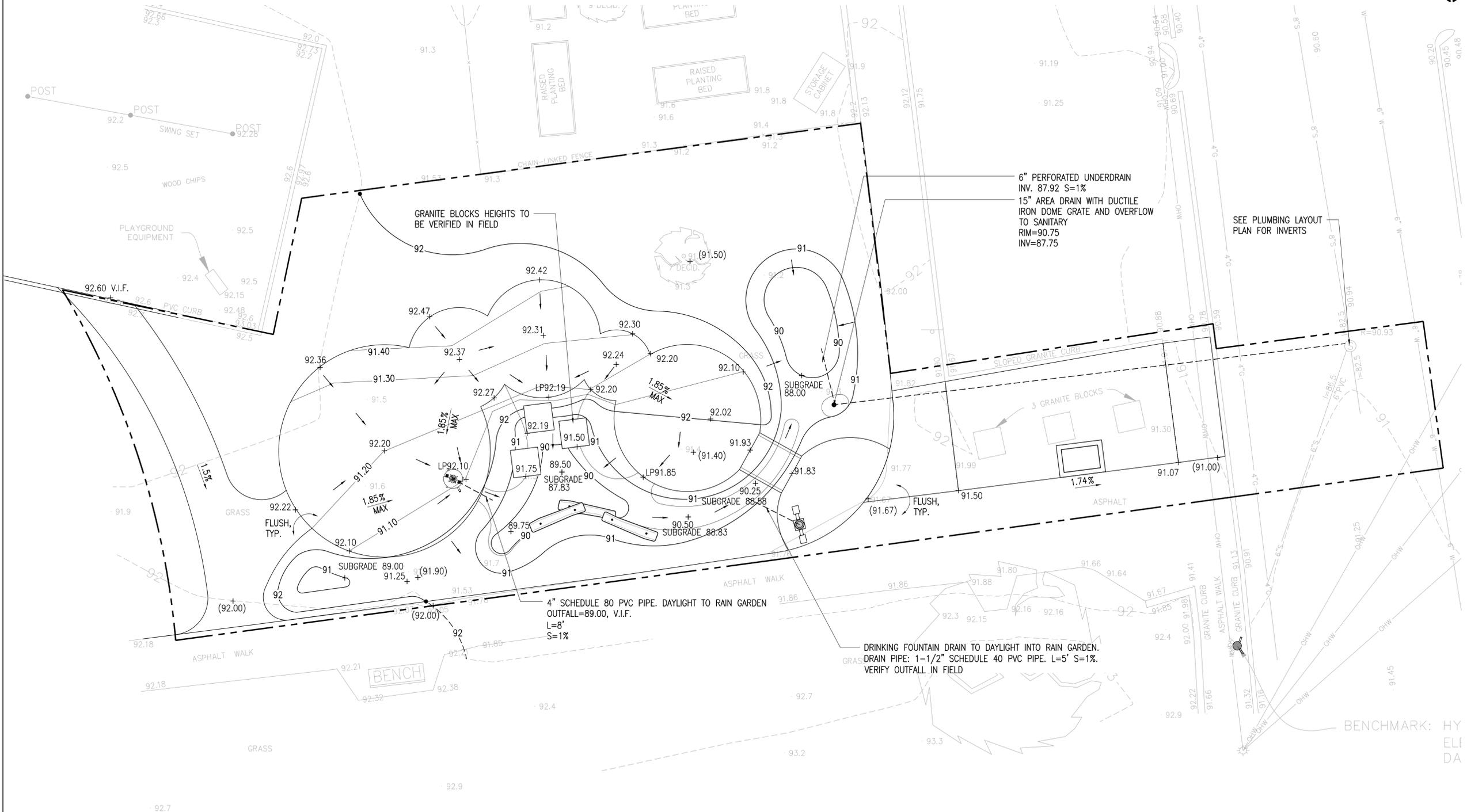


LEGEND

- L.O.W. LIMIT OF WORK
- PROPOSED CONTOUR, TYP.
- EXISTING CONTOUR, TYP.
- SPOT GRADE, TYP.
- EXISTING SPOT GRADE, TYP.
- SLOPE, TYP.
- HIGH POINT
- LOW POINT



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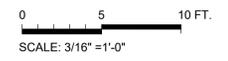
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LAYOUT AND MATERIALS PLAN

L3.0

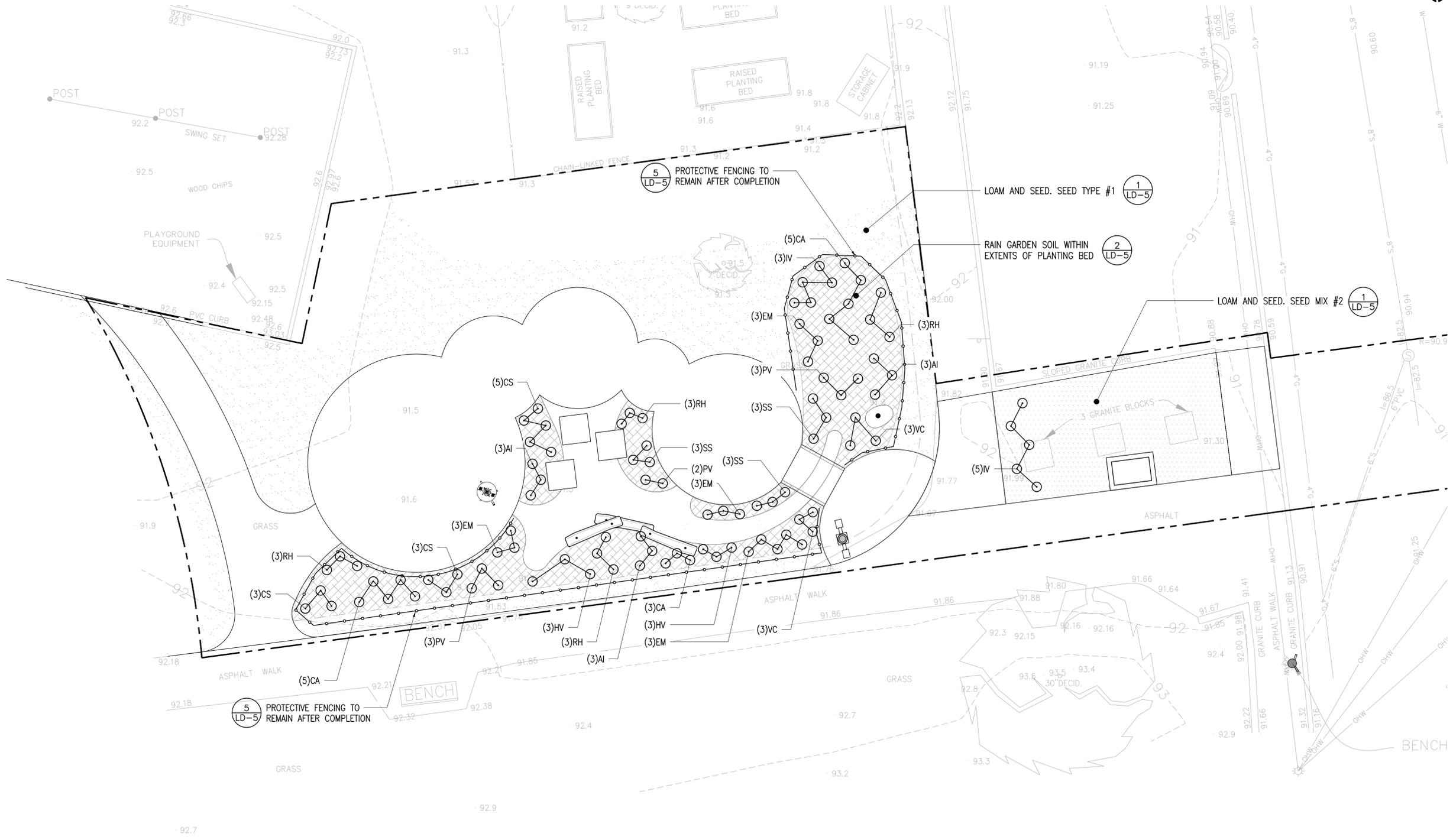


LEGEND

- L.O.W. LIMIT OF WORK
- ⊗ EXISTING TREE
- ⊗ PERENNIALS/SHRUBS (3 LD-5), (4 LD-5)
- ▨ LOAM AND SEED - TYPE 1 (1 LD-5)
- ▨ LOAM AND SEED - TYPE 2 (1 LD-5)
- ▨ PLANTING BED/SEED MIX TYPE 2 (2 LD-5)
- PROTECTIVE FENCE (5 LD-5)

PLANT SCHEDULE

QTY	SYMBOL	SCIENTIFIC NAME	COMMON NAME	MAX. HT	NOTES
PERENNIALS					
9	AI	ASCLEPIAS INCARNATA	SWAMP MILKWEED	1 GALLON	
12	EM	EUPATORIUM MACULATUM	SPOTTED JOE-PYE WEED	1 GALLON	
8	PV	PANICUM VIRGATUM	SWITCHGRASS	1 GALLON	
9	RH	RUDBECKIA HIRTA	BLACK-EYED SUSAN	1 GALLON	
12	SS	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	1 GALLON	
SHRUBS					
13	CA	CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	1 GALLON	
11	CS	CORNUS SERICEA 'KELSEYI'	RED TWIG DOGWOOD	1 GALLON	
8	HV	HAMAMELIS VIRGINIANA	WITCHHAZEL	1 GALLON	
8	IV	ILEX VERTICILLATA	WINTERBERRY	1 GALLON	
6	VC	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	1 GALLON	



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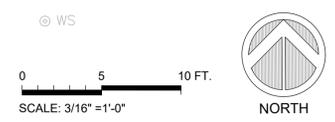
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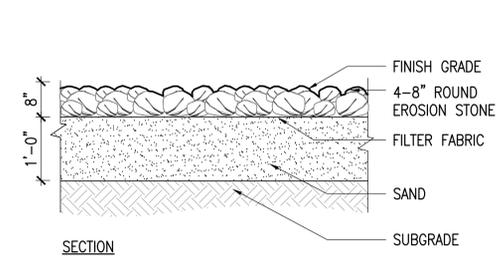
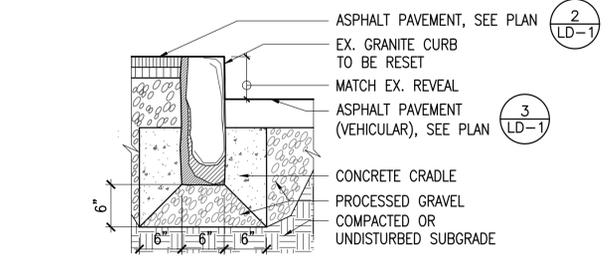
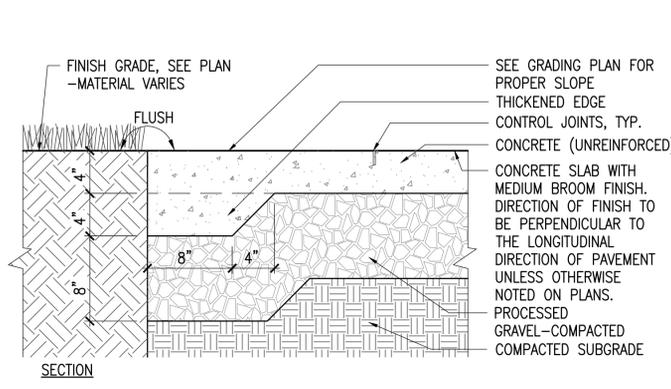
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LAYOUT AND MATERIALS PLAN

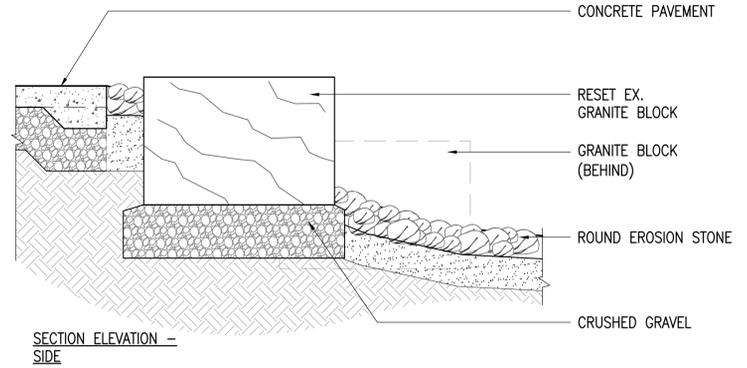
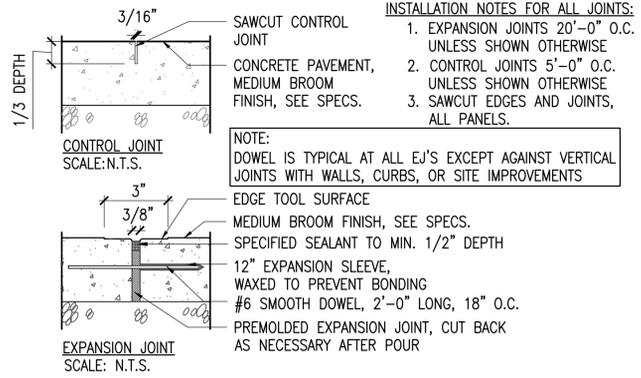
L4.0



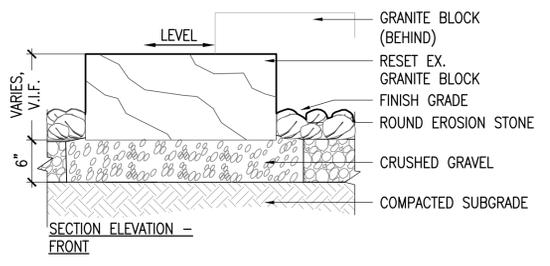
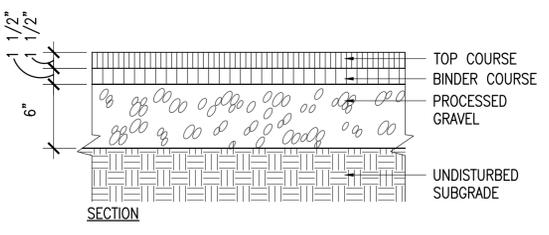


4 RESET GRANITE CURB
SCALE: 1" = 1'-0"

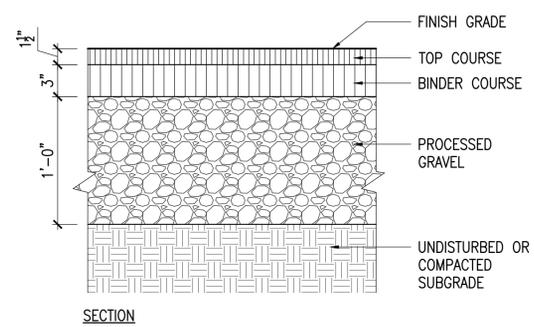
7 ROUND EROSION STONE
SCALE: 3/4" = 1'-0"



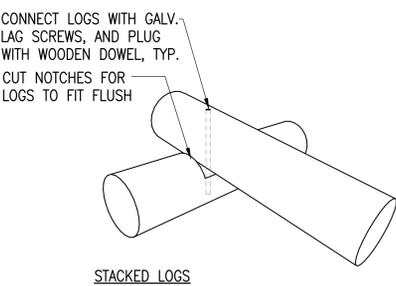
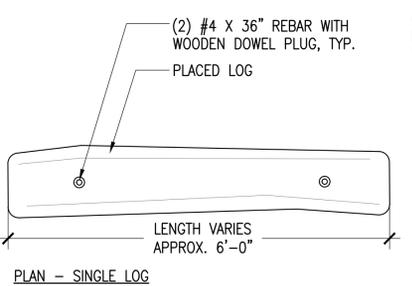
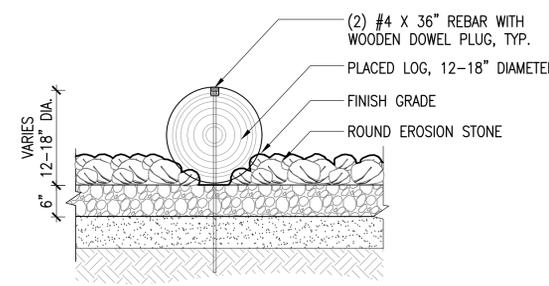
1 CONCRETE PAVEMENT
SCALE: 1 1/2" = 1'-0"



2 BITUMINOUS CONCRETE PAVEMENT - PEDESTRIAN
SCALE: 1 1/2" = 1'-0"



5 SET EXISTING GRANITE BLOCKS
SCALE: 3/4" = 1'-0"



3 BITUMINOUS CONCRETE PAVEMENT - VEHICULAR
SCALE: 1 1/2" = 1'-0"

- NOTE:**
- LOGS SHALL BE UNTREATED, HARDWOOD SPECIES SUCH AS OAK, MAPLE, BLACK LOCUST, OR APPROVED EQUAL.
 - ALL LOG ENDS TO BE SANDED WITH EASED EDGES, TYP.
 - REMOVE ANY LOOSE BARK
 - LOGS SHALL BE SMOOTH, WITHOUT SHARP EDGES.
 - LOGS SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO ARRIVAL ON SITE.

6 SET LOGS
SCALE: 3/4" = 1'-0"

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LANDSCAPE ARCHITECT

CONSTRUCTION DOCUMENTS

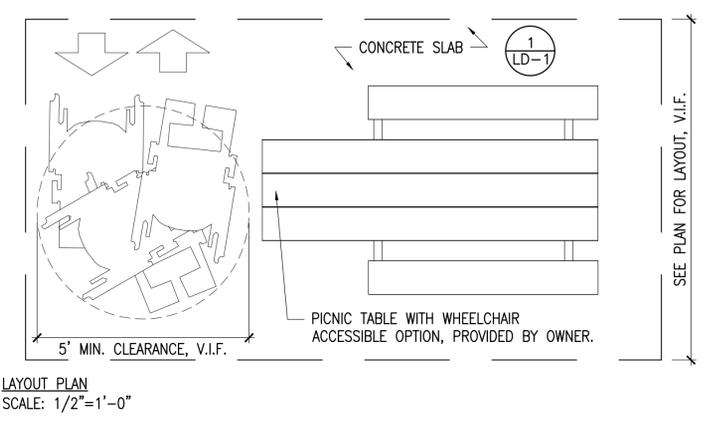
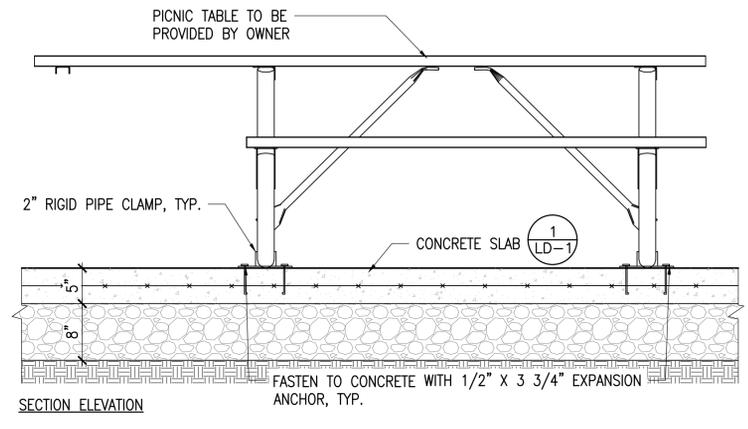
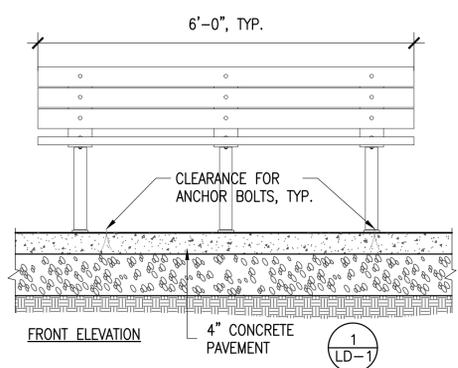
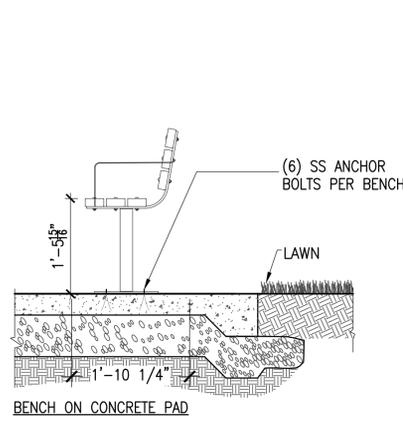
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LANDSCAPE DETAILS

**ARMORY PARK
SPLASH PAD**

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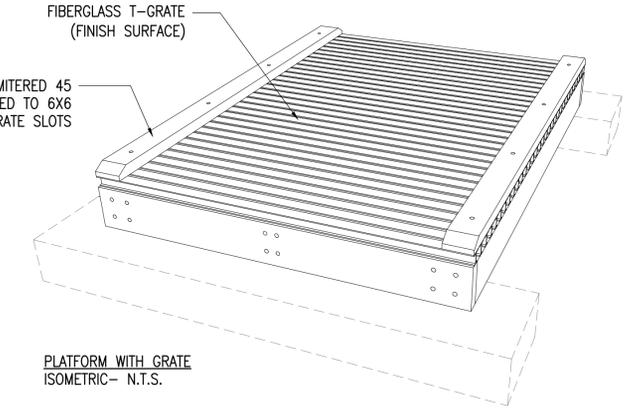
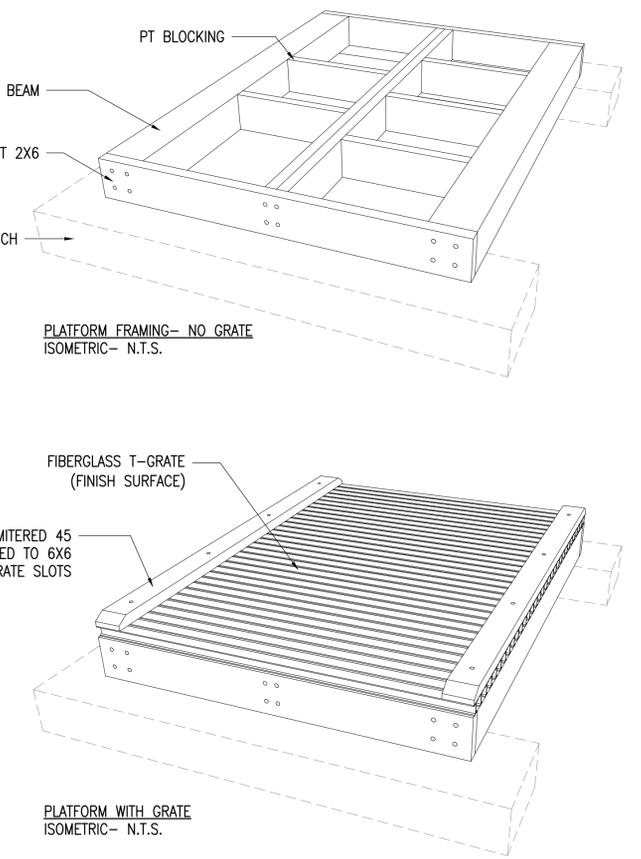
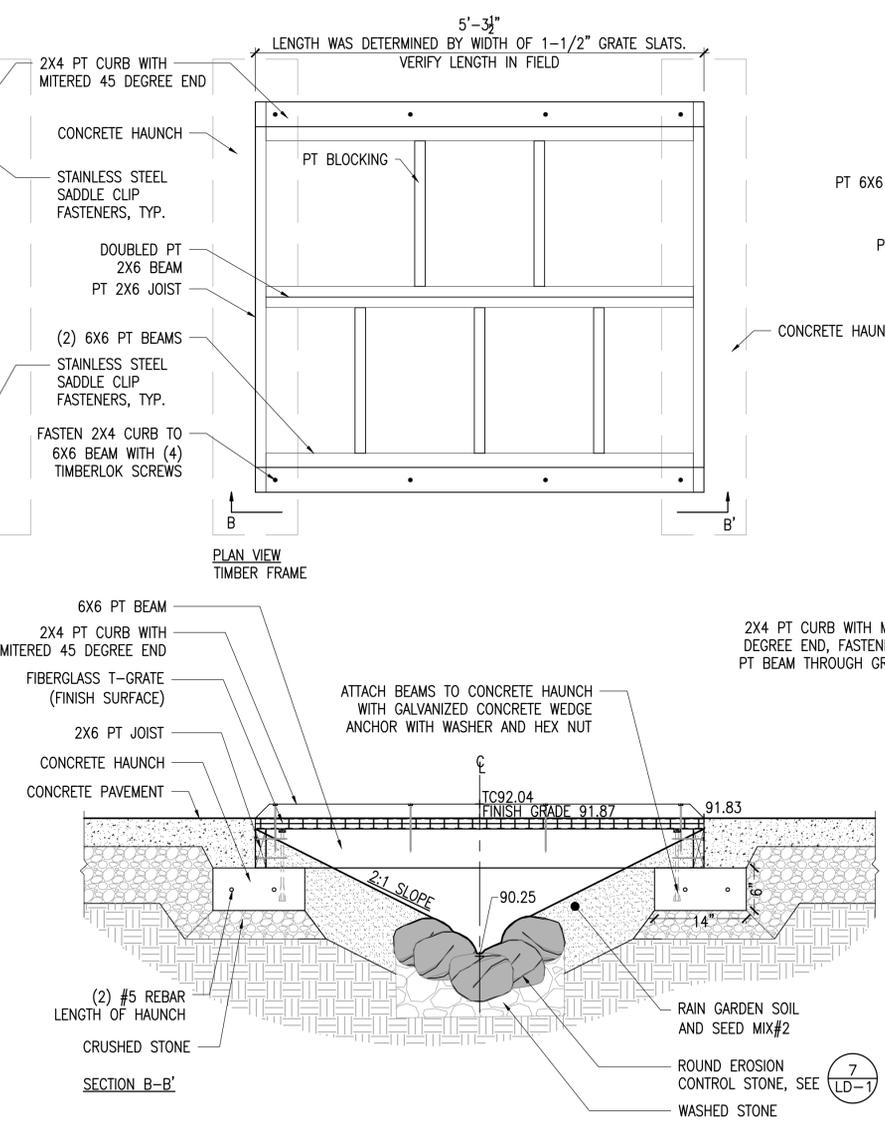
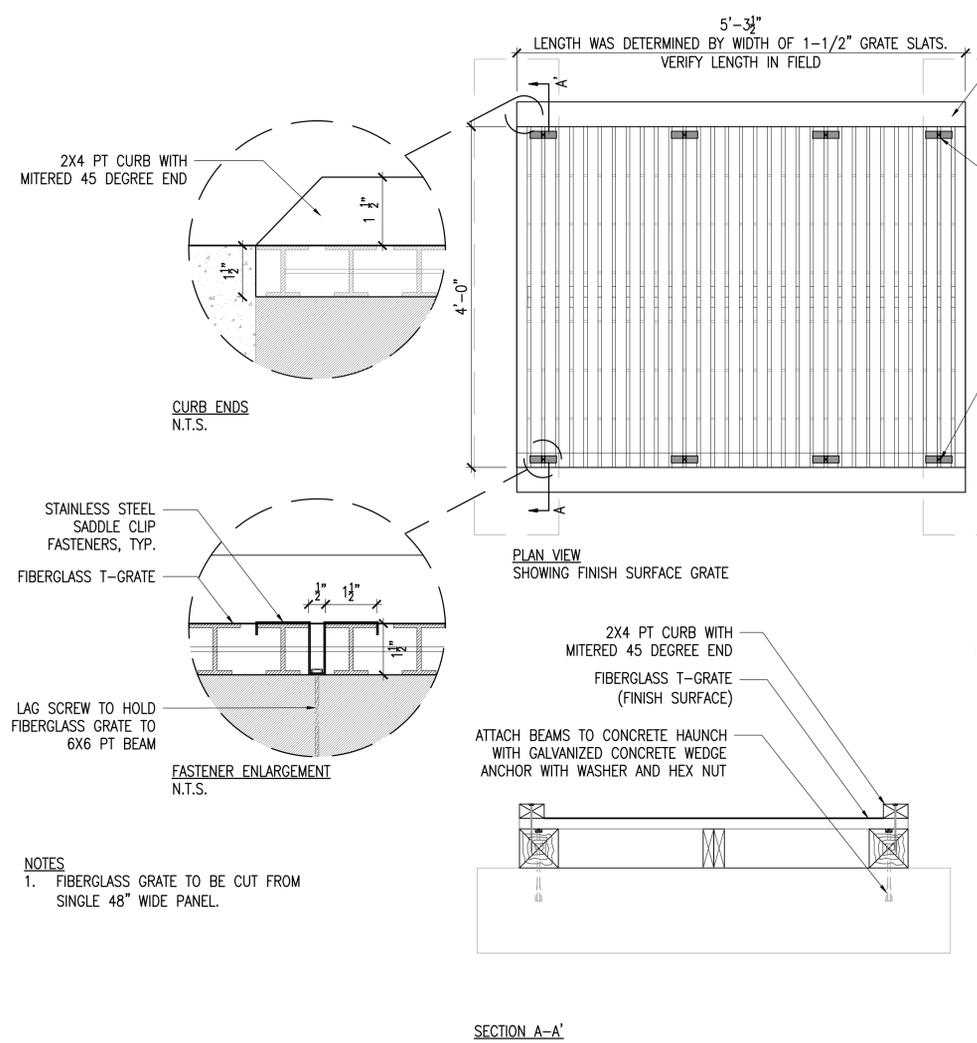


NOTE:
1. BENCHES ARE TO BE PROVIDED BY OWNER.
2. CONTRACTOR RESPONSIBLE FOR ASSEMBLY AND PROVIDING ALL MOUNTING HARDWARE.
3. CLIENT TO COORDINATE DELIVERY TO SITE, CONTRACTOR TO COORDINATE ACCEPTANCE FROM DELIVERY TRUCK.

NOTE:
1. PICNIC TABLE IS TO BE PROVIDED BY OWNER.
2. CONTRACTOR RESPONSIBLE FOR ASSEMBLY AND PROVIDING ALL MOUNTING HARDWARE.
3. CLIENT TO COORDINATE DELIVERY TO SITE, CONTRACTOR TO COORDINATE ACCEPTANCE FROM DELIVERY TRUCK.

1 BENCH - OWNER TO PROVIDE
SCALE: 3/4" = 1'-0"

2 PICNIC TABLE - OWNER TO PROVIDE
SCALE: 1" = 1'-0"



3 GRATE PLATFORM
SCALE: 1" = 1'-0"

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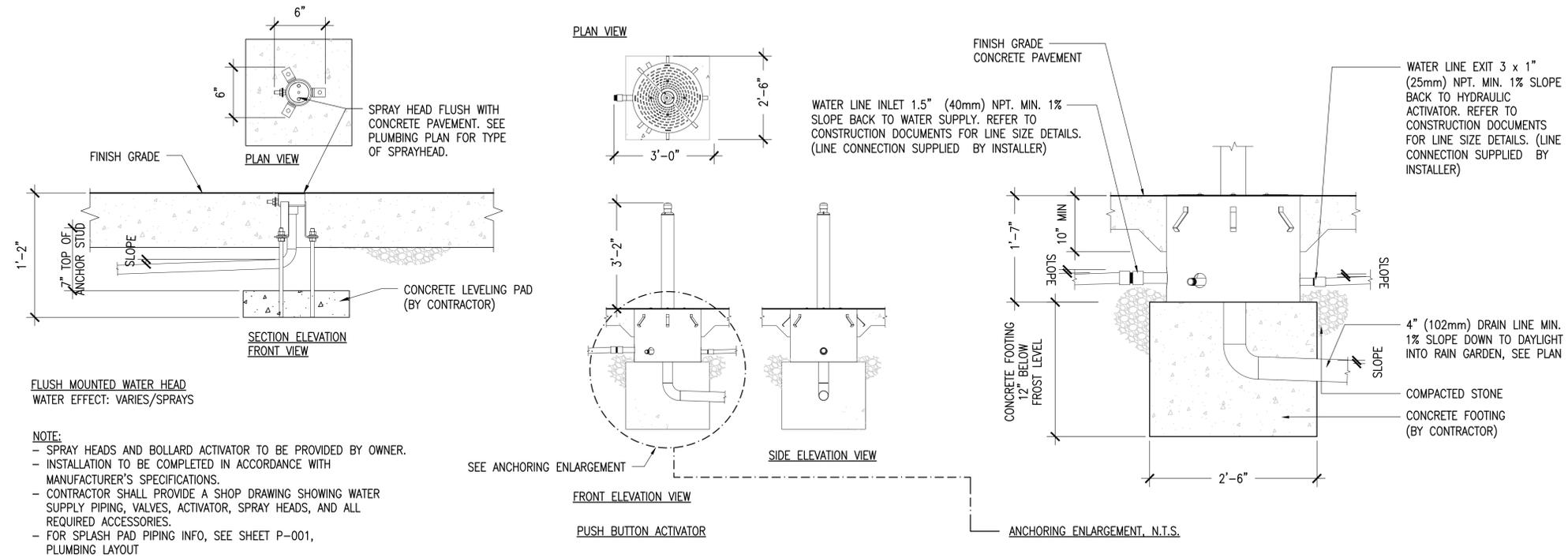
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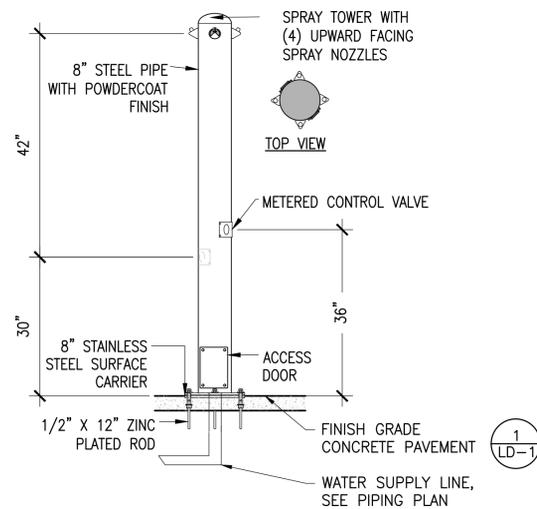
LD-2



FLUSH MOUNTED WATER HEAD
WATER EFFECT: VARIES/SPRAYS

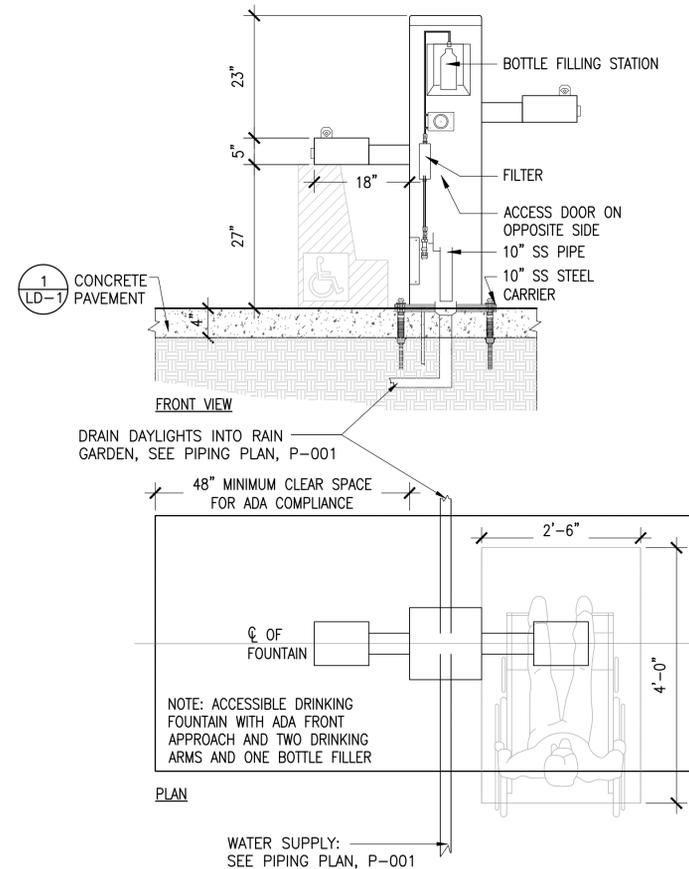
- NOTE:**
- SPRAY HEADS AND BOLLARD ACTIVATOR TO BE PROVIDED BY OWNER.
 - INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 - CONTRACTOR SHALL PROVIDE A SHOP DRAWING SHOWING WATER SUPPLY PIPING, VALVES, ACTIVATOR, SPRAY HEADS, AND ALL REQUIRED ACCESSORIES.
 - FOR SPLASH PAD PIPING INFO, SEE SHEET P-001, PLUMBING LAYOUT

1 FLUSH SPRAYHEADS AND BOLLARD ACTIVATOR - OWNER TO PROVIDE
SCALE: 1/2" = 1'-0"



- NOTES:**
1. SPRAY TOWER TO BE POWDERCOATED, COLOR TO BE BLUE.
 2. CONTRACTOR RESPONSIBLE FOR PROVIDING ALL PIPING AND INSTALLATION.
 3. EACH TOWER HAS 4 SHOWER HEADS WITH 2 METERED VALVES. EACH VALVE CONTROLS 2 HEADS.
 3. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

2 ADD ALT #1 - SPRAY TOWER
SCALE: 3/4" = 1'-0"



3 ADD ALT #1 - DRINKING FOUNTAIN
SCALE: 3/4" = 1'-0"

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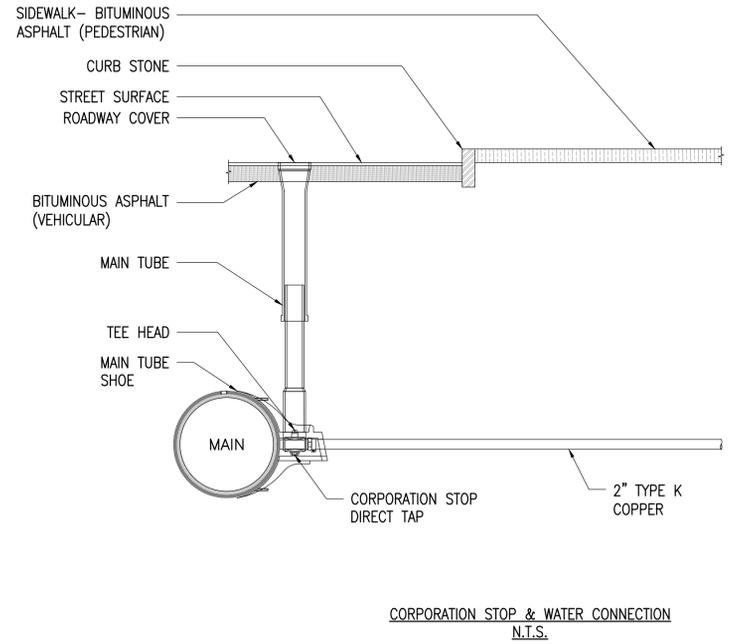
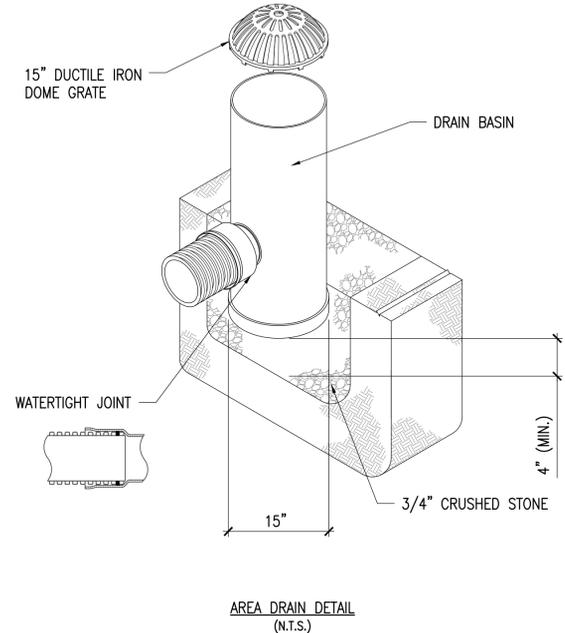
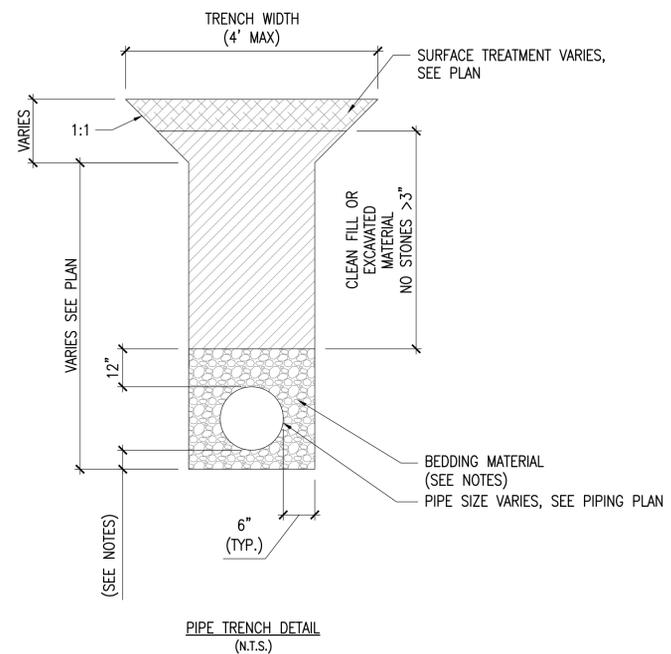
LANDSCAPE ARCHITECT

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LANDSCAPE DETAILS

LD-3

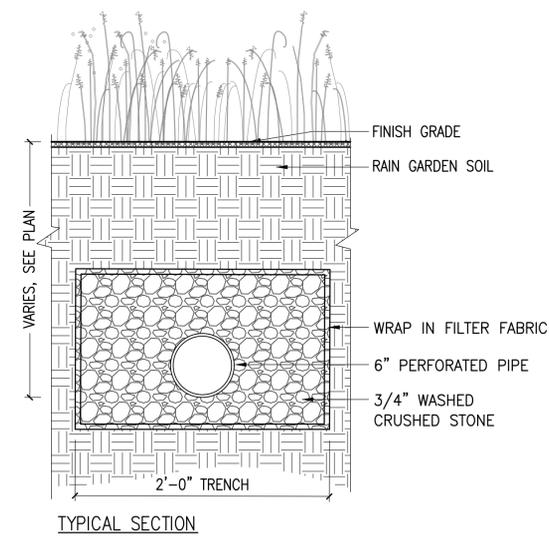
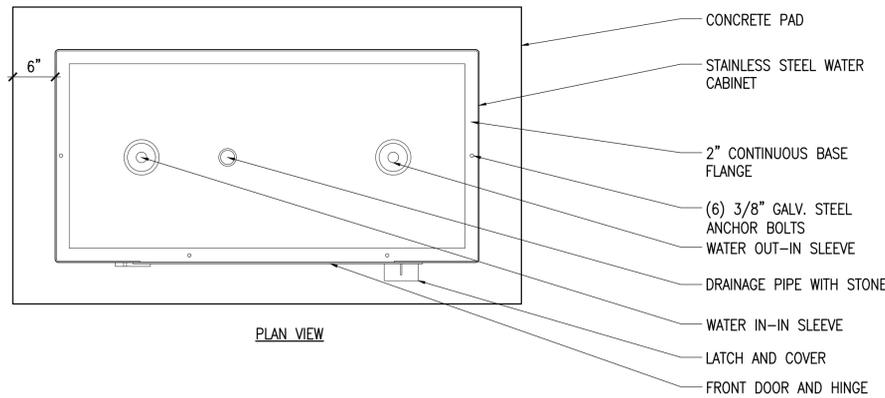
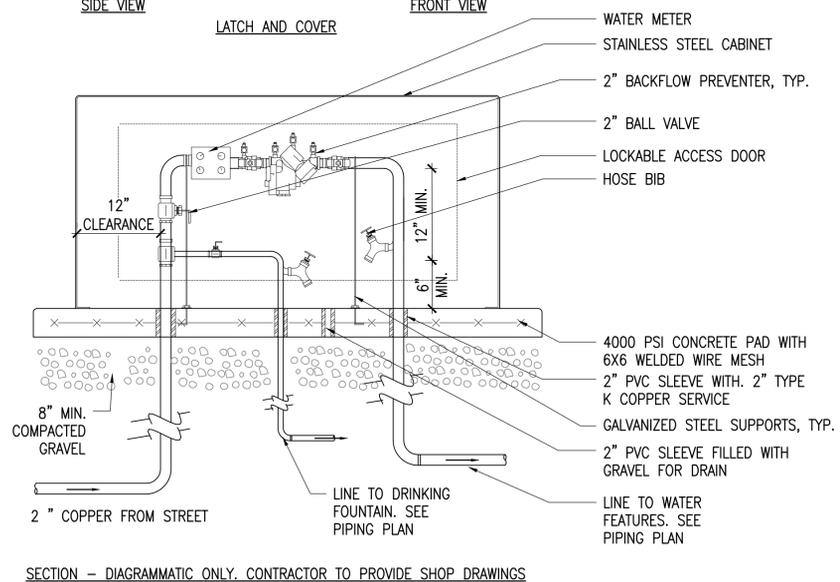
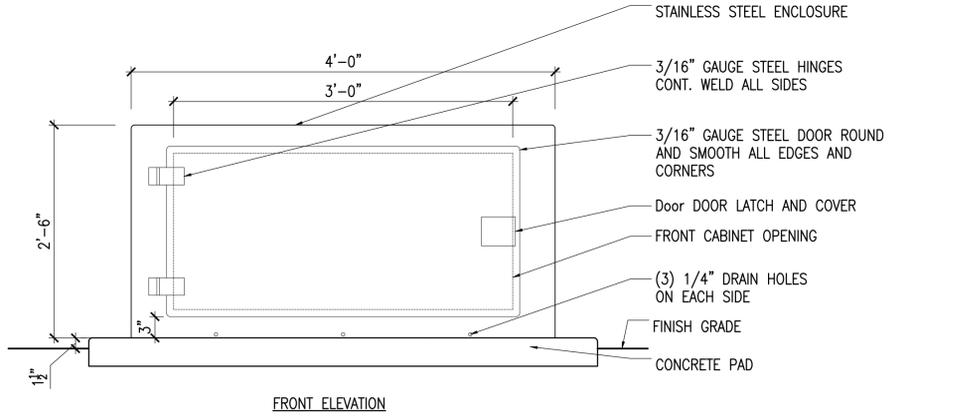
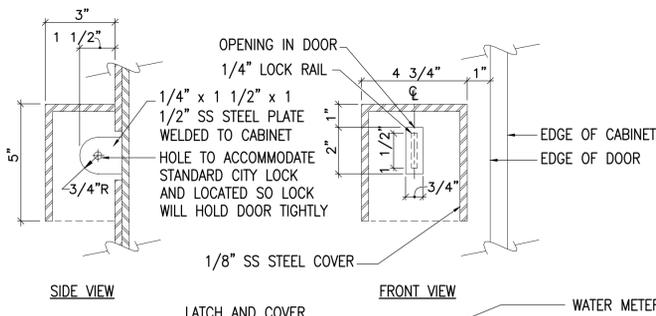


NOTES:
- BEDDING MATERIAL:
- FOR HDPE OR PVC NO STONES SHALL BE GREATER THAN 3/4", NO STONES WITHIN 4" OF PIPE AND MATERIAL SHALL BE THOROUGHLY COMPACTED
- 4" OF BEDDING MATERIAL BELOW PIPE IF PLACED IN EARTH

- IF EXISTING MATERIAL WITHIN TRENCH CONTAINS ORGANICS, MUCK, CONTAMINATION OR UNSUITABLE, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT PRIOR TO PROCEEDING.

1 DRAINAGE DETAILS
SCALE: 3/4" = 1'-0"

4 CORPORATION STOP
SCALE: 3/4" = 1'-0"



2 WATER CABINET
SCALE: 1" = 1'-0"

3 PERFORATED UNDERDRAIN
SCALE: 1 1/2" = 1'-0"

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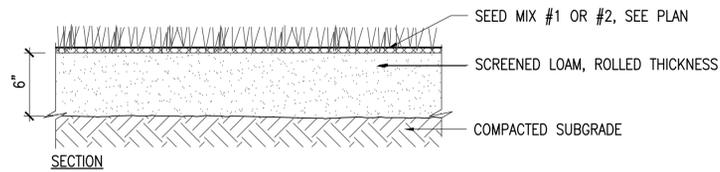
LANDSCAPE ARCHITECT

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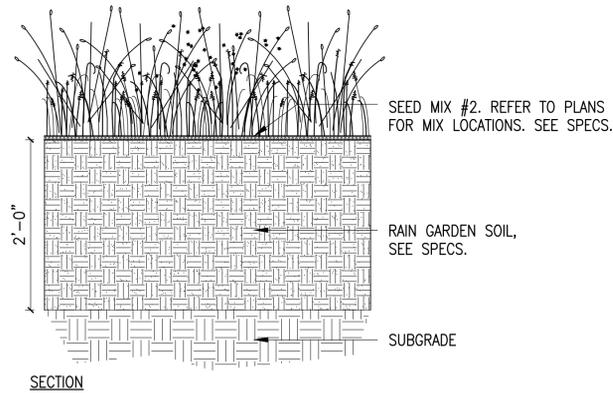
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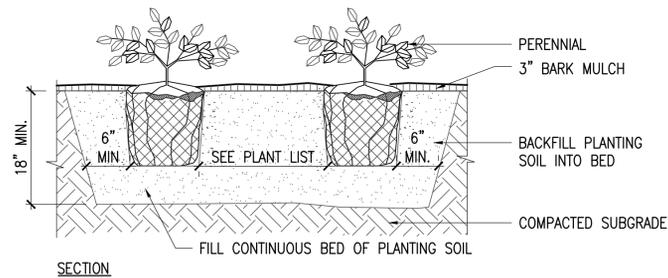
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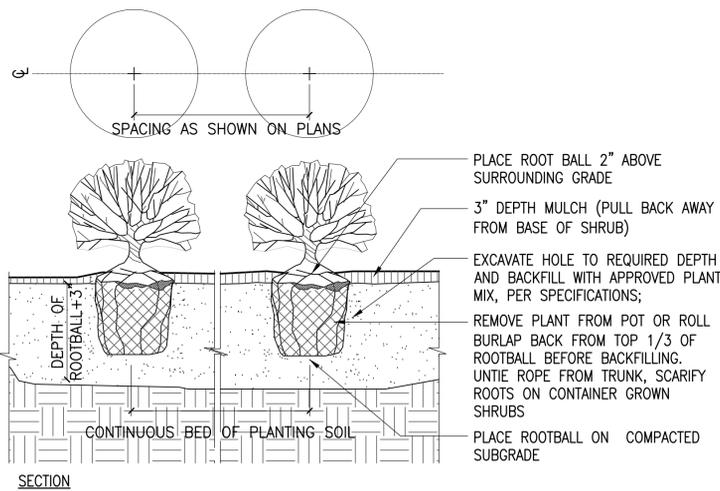
1 LOAM AND SEED
 SCALE: 1 1/2" = 1'-0"



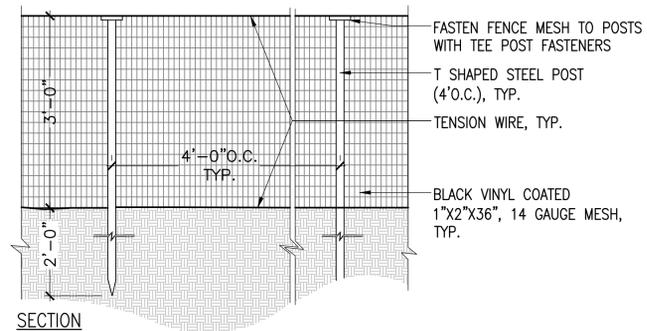
2 RAIN GARDEN SOIL
 SCALE: 1" = 1'-0"



3 PERENNIAL PLANTING
 SCALE: 1 1/2" = 1'-0"



4 SHRUB PLANTING
 SCALE: 1 1/2" = 1'-0"



5 PROTECTIVE FENCING
 SCALE: 3/4" = 1'-0"



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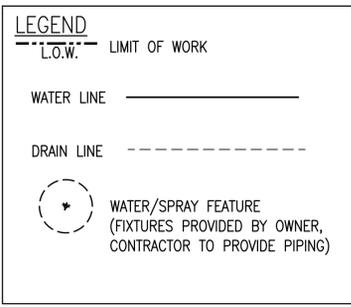
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PLUMBING LAYOUT PLAN

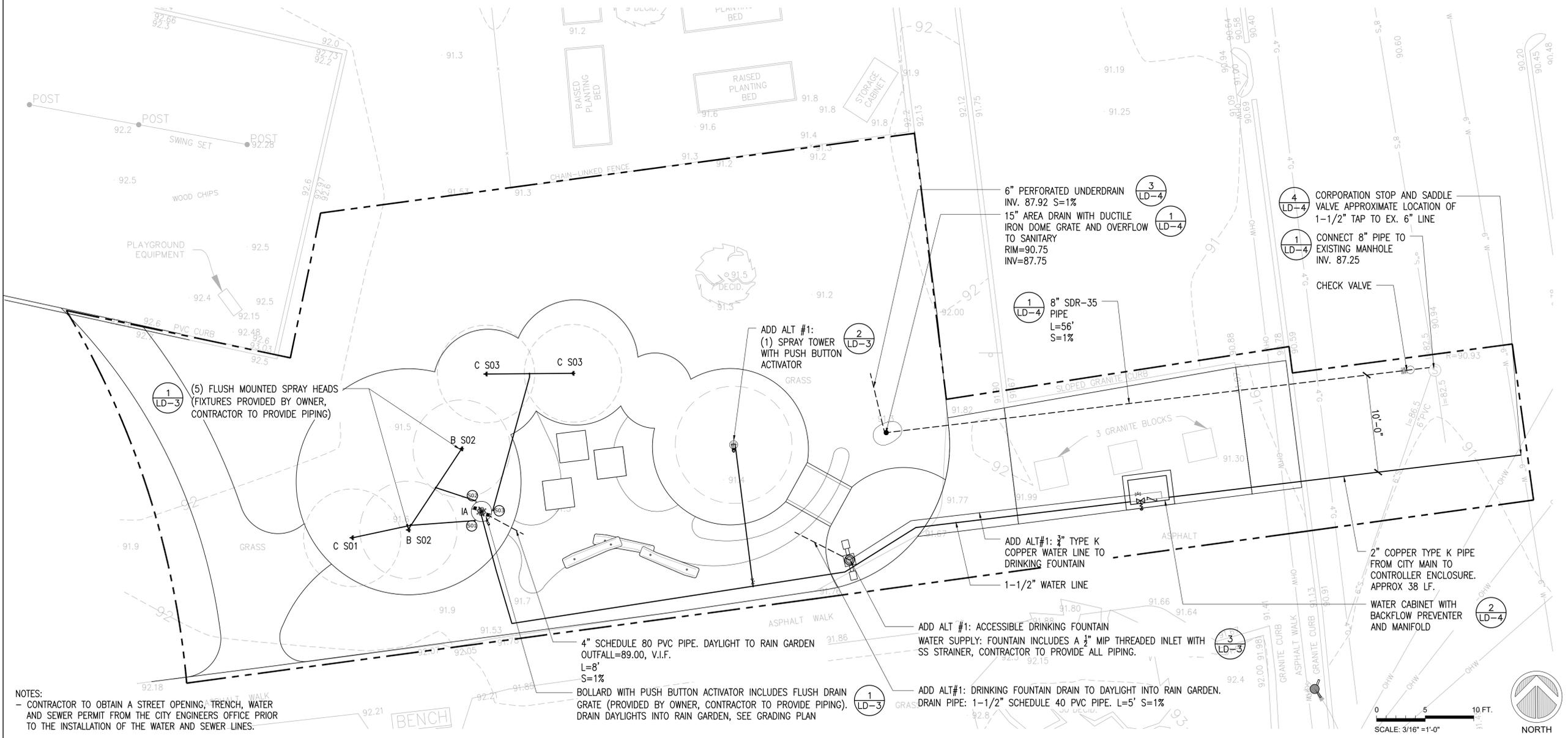
P-001

Manifold Output Ref.	Feature Ref.	Feature	Qty	Line Size	Gpm
S01	C	Jet Stream N°1 VOR 7512 (OWNER provided)	1	1"	2.5
S02	B	Geyser N°1 VOR 0301 (OWNER provided)	2	1"	14
S03	C	Jet Stream N°1 VOR 7512 (OWNER provided)	2	1"	5
		SPRAY TOWER (INSTALLER provided)	1	1/2"	

Product Ref.	Product	Qty
IA	Push Button Activator VOR-0605	1
ID	1.5" City Water Line (By Installer)	1
∇	1.5" Pressure Regulator (by Installer)	1
∇	1.5" Backflow Preventer (by Installer)	1
∇	1" Gate Valve (by Installer)	3



- NOTES:
- SPRAY HEAD AND PIPING LAYOUT IS DIAGRAMMATIC REFER TO SHEET L2.0 FOR SPRAY FEATURE LAYOUT
- 1 PIPING**
- WDS CONFIGURATION ARE SCHEMATIC AND MAY BE MOVED OR ADJUSTED ON SITE BY VORTEX CERTIFIED INSTALLER TO ADJUST FOR SITE CONDITIONS.
 - ANY REQUIRED BACKFLOW PREVENTER OR PRESSURE REGULATOR ON THE CITY WATER MAIN SHALL BE PROVIDED BY INSTALLER. WATER METER SHALL BE PROVIDED BY THE CITY FOR THE CONTRACTOR TO INSTALL.
 - ALL PIPE LINES TO FEATURES TO HAVE A 1% MINIMUM RECOMMENDED SLOPE FOR PROPER WINTERIZATION.
 - ALL LINE SIZING (FEATURE CONNECTION TABLE) ASSUMES A MAXIMUM DISTANCE OF 30 FEET BETWEEN THE WATER DISTRIBUTION MANIFOLD AND THE FURTHEST PLAY PRODUCT. DISTANCES ABOVE 30 FEET MAY REQUIRE AN INCREASE IN LINE SIZING. PLEASE CONTACT VORTEX.
 - FINAL LOCATION OF DRAIN AND LINE ROUTING ARE TO BE DETERMINED BY OTHERS.
 - PRESSURE LINES ARE RECOMMENDED TO BE SCHEDULE 80 PVC OR PEX, AND NON-PRESSURE LINES TO BE SCHEDULE 40, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
 - DRAINAGE LINES ARE RECOMMENDED TO BE SDR 35, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
 - PIPING SHOULD BE INSPECTED AFTER TRANSPORTATION FOR CUTS, SCRATCHES, GOUGES OR SPLITS; DAMAGED SECTIONS MUST BE DISCARDED OR CUT OUT.
 - PIPE SHALL BE INSTALLED BELOW THE FROST LEVEL NOT LESS THAN 12" (ASTM F-645) UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
 - PIPE INSTALLATION MINIMUM COVER SHOULD BE EVALUATED ACCORDING TO ASTM D-2774, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
 - SPECIAL CONSIDERATIONS SHOULD BE TAKEN FOR THERMAL CONDITIONS, EXPANSION AND CONTRACTIONS DUE TO TEMPERATURE SHOULD BE EVALUATED BEFORE THE INSTALLATION BY THE CONTRACTOR.
 - MINIMUM 30 PSI REQUIRED AT THE INLET OF THE WATER DISTRIBUTION SYSTEM.
 - MAXIMUM FLOW CAPACITY OF HYDRAULIC ACTIVATOR IS 45 GPM.
 - TOTAL FLOW OF THE FEATURES ON HYDRAULIC ACTIVATOR IS 21.5 GPM.
 - THERE IS NO SEQUENCING, FEATURES ON THE HYDRAULIC ACTIVATOR ARE ALL ON WHEN ITS DEDICATED ACTIVATOR IS PRESSED. SPRAY TOWER IS ON WHEN ITS OWN ACTIVATOR IS PRESSED.
- 2 ELECTRICAL**
- USE #8 BARE SOLID COPPER BONDING WIRE BETWEEN FEATURES TO A GROUNDING ROD IN THE SOIL, TIED INTO REBAR GRID, OR AS PER LOCAL CODE.



NOTES:
- CONTRACTOR TO OBTAIN A STREET OPENING, TRENCH, WATER AND SEWER PERMIT FROM THE CITY ENGINEERS OFFICE PRIOR TO THE INSTALLATION OF THE WATER AND SEWER LINES.

