



City of Somerville

Plans for the Construction of:
Symphony Park
46 Pearl Street
Somerville, MA 02145

City of Somerville
Joseph A. Curtatone, Mayor

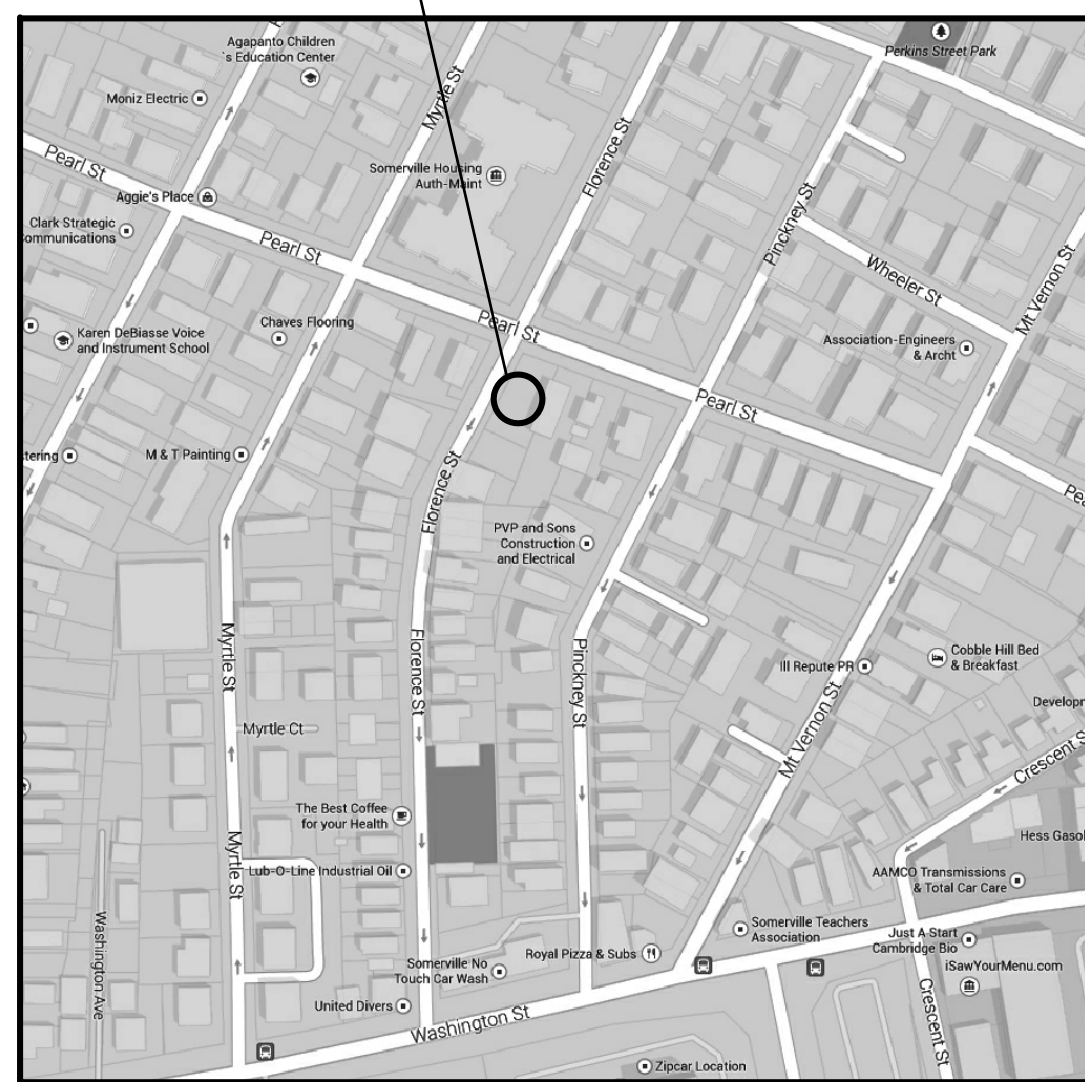
Michael F. Glavin, Executive Director
Mayor's Office of Strategic Planning and Community Development

Luisa Oliveira, Senior Planner, Landscape Design
Phone: 617-625-6600 x 2529

BID DOCUMENTS

May 12, 2014

LOCUS MAP



DRAWINGS PREPARED BY:

Landscape Architect
GroundView LLC
5 Dell Street
Somerville, MA 02145
617.548.9688

Engineer
Design Consultants, Inc. (DCI)
120 Middlesex Avenue, Suite 20
Somerville, MA 02145
617.776.3350

DRAWING LIST:

- | | |
|--|------------------------|
| X-1.00 EXISTING CONDITIONS | L-5.06 BENCH A DETAILS |
| L-0.00 SITE PREPARATION PLAN | L-5.07 BENCH B DETAILS |
| C-1 DRAINAGE PLAN | L-5.08 BENCH C DETAILS |
| C-2 UTILITY PLAN | L-5.09 BENCH D DETAILS |
| C-3 UTILITY DETAILS | L-5.10 BENCH E DETAILS |
| L-1.00 MATERIALS PLAN | L-5.11 PERGOLA DETAILS |
| L-2.00 LAYOUT PLAN | L-5.12 PERGOLA DETAILS |
| L-3.00 GRADING PLAN | L-5.13 PLANTING AND |
| L-4.00 PLANTING PLAN | LIGHTING DETAILS |
| L-5.01 PAVING AND WALL DETAILS | |
| L-5.02 WALL ELEVATIONS | |
| L-5.03 HANDRAIL AND WATER RUNNEL DETAILS | |
| L-5.04 WATER RUNNEL AND TRELLIS DETAILS | |
| L-5.05 FURNISHING DETAILS | |

PLAN OF LAND
OF
CITY OF SOMERVILLE
46 PEARL STREET
SOMERVILLE, MA
PREPARED FOR
THE CITY OF SOMERVILLE
DATE: JUNE 11, 2013
DRAWN BY: GBP
SCALE: as shown
JOB NO: 227.17

Mistry Associates, Inc.
315 Main Street
Reading, MA 01867
TEL 781-944-6400 FAX 781-944-0180

SURVEY NOTES:

- SUBJECT PROPERTY SHOWN ON ASSESSOR'S MAP 105, BLOCK "B", LOTS 1 & 31.
- PROPERTY IN "RB" RESIDENCE B ZONING DISTRICT.
- UTILITIES SHOWN IN APPROX. LOCATION FROM RECORD PLANS, CONTACT DIG-SAFE PRIOR TO ANY EXCAVATION WORK.
- ELEVATIONS REFER TO THE CITY OF SOMERVILLE BASE.
- ADDRESS OF VACANT PARCEL IS #46 PEARL STREET.
- UNDERGROUND ELECTRIC & GAS SERVICE NOT FOUND.

DEED REFERENCES

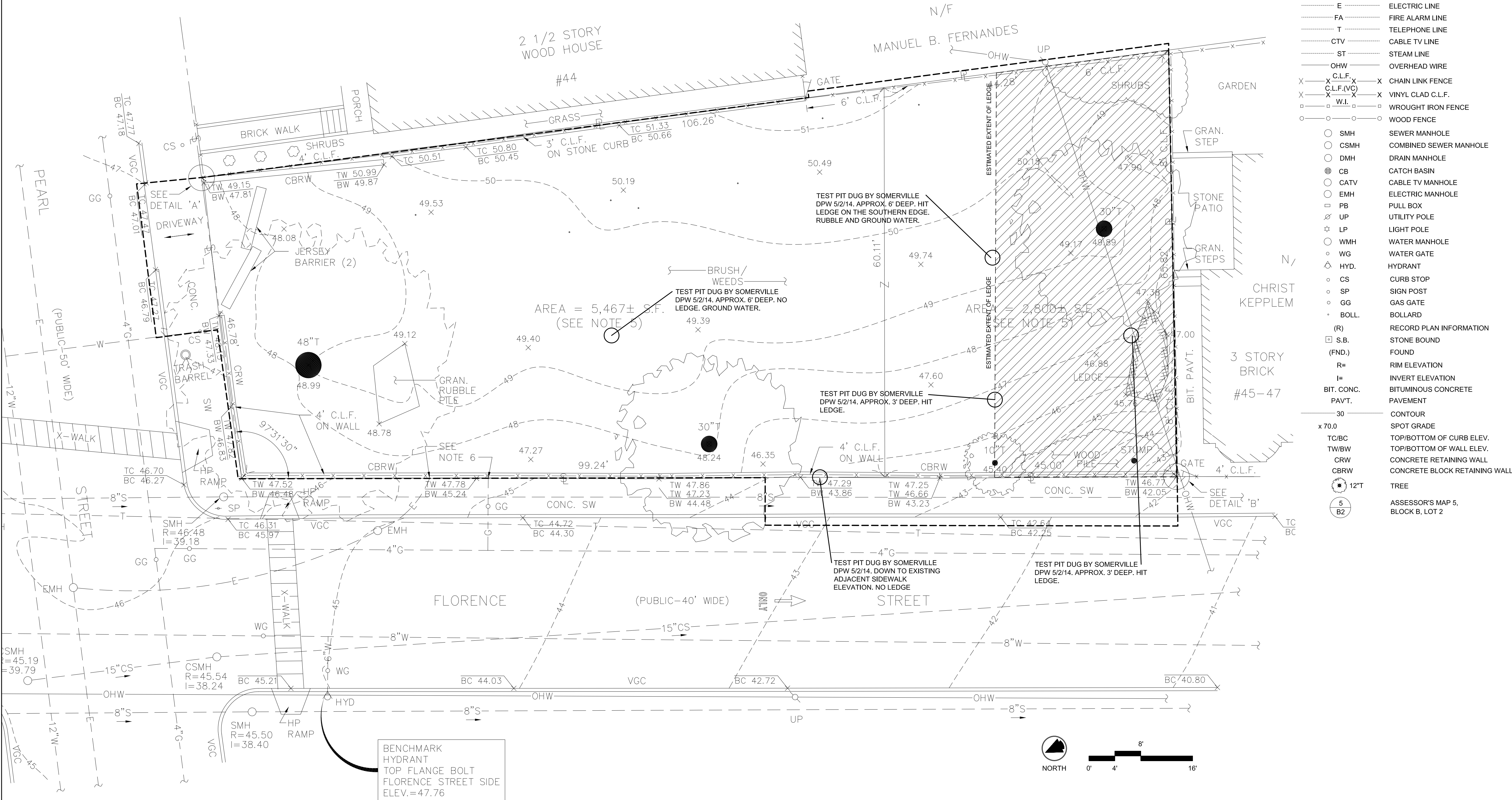
BOOK 54832, PAGE 65
BOOK 39713, PAGE 246

RECORD OWNER

CITY OF SOMERVILLE
93 HIGHLAND AVENUE
SOMERVILLE, MA 02143

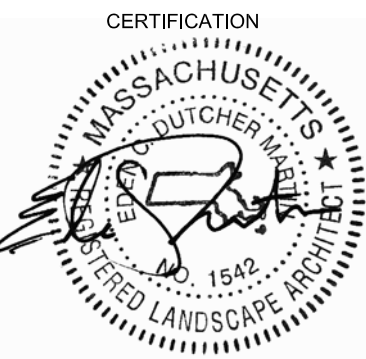
LEGEND

- | | |
|------------------|----------------------------------|
| //// | BUILDING LINE |
| —R— | PROPERTY LINE |
| —Z— | LINE OF COMMON OWNERSHIP |
| — | ZONING DISTRICT LINE |
| —S— | STREET LINE |
| ----- | EASEMENT/RIGHT OF WAY |
| EOP | EDGE OF PAVEMENT |
| EOG | EDGE OF GRASS |
| ===== | CURBING |
| VGC | VERTICAL GRANITE CURB |
| CC | CONCRETE CURB |
| S | SANITARY SEWER LINE |
| CS | COMBINED SEWER LINE |
| D | STORM DRAIN LINE |
| W | WATER LINE |
| G | GAS LINE |
| E | ELECTRIC LINE |
| FA | FIRE ALARM LINE |
| T | TELEPHONE LINE |
| CTV | CABLE TV LINE |
| ST | STEAM LINE |
| OHW | OVERHEAD WIRE |
| X X C.L.F. X | CHAIN LINK FENCE |
| X X C.L.F.(VC) X | VINYL CLAD C.L.F. |
| X X W.I. X | WROUGHT IRON FENCE |
| o o o o | WOOD FENCE |
| o | SEWER MANHOLE |
| o | COMBINED SEWER MANHOLE |
| o | DRAIN MANHOLE |
| CB | CATCH BASIN |
| o | CABLE TV MANHOLE |
| o | ELECTRIC MANHOLE |
| PB | PULL BOX |
| UP | UTILITY POLE |
| LP | LIGHT POLE |
| o | WATER MANHOLE |
| WG | WATER GATE |
| HYD. | HYDRANT |
| o | CURB STOP |
| SP | SIGN POST |
| GG | GAS GATE |
| BOLL. | BOLLARD |
| (R) | RECORD PLAN INFORMATION |
| S.B. | STONE BOUND |
| (FND.) | FOUND |
| R= | RIM ELEVATION |
| I= | INVERT ELEVATION |
| BIT. CONC. | BITUMINOUS CONCRETE |
| PAVT. | PAVEMENT |
| 30 | CONTOUR |
| x 70.0 | SPOT GRADE |
| TC/BC | TOP/BOTTOM OF CURB ELEV. |
| TW/BW | TOP/BOTTOM OF WALL ELEV. |
| CRW | CONCRETE RETAINING WALL |
| CBRW | CONCRETE BLOCK RETAINING WALL |
| 12" T | TREE |
| 5 B2 | ASSESSOR'S MAP 5, BLOCK B, LOT 2 |



© GroundView LLC

CONSULTANT



City of Somerville
Plans for the Construction of:
Symphony Park
Pearl Street
Somerville, MA



ISSUED	
PURPOSE	DATE

BID DOCUMENTS

SCALE: AS NOTED
DATE: 05.12.14
DRAWN BY: ED
CHECKED BY: WM

SHEET
EXISTING
CONDITIONS

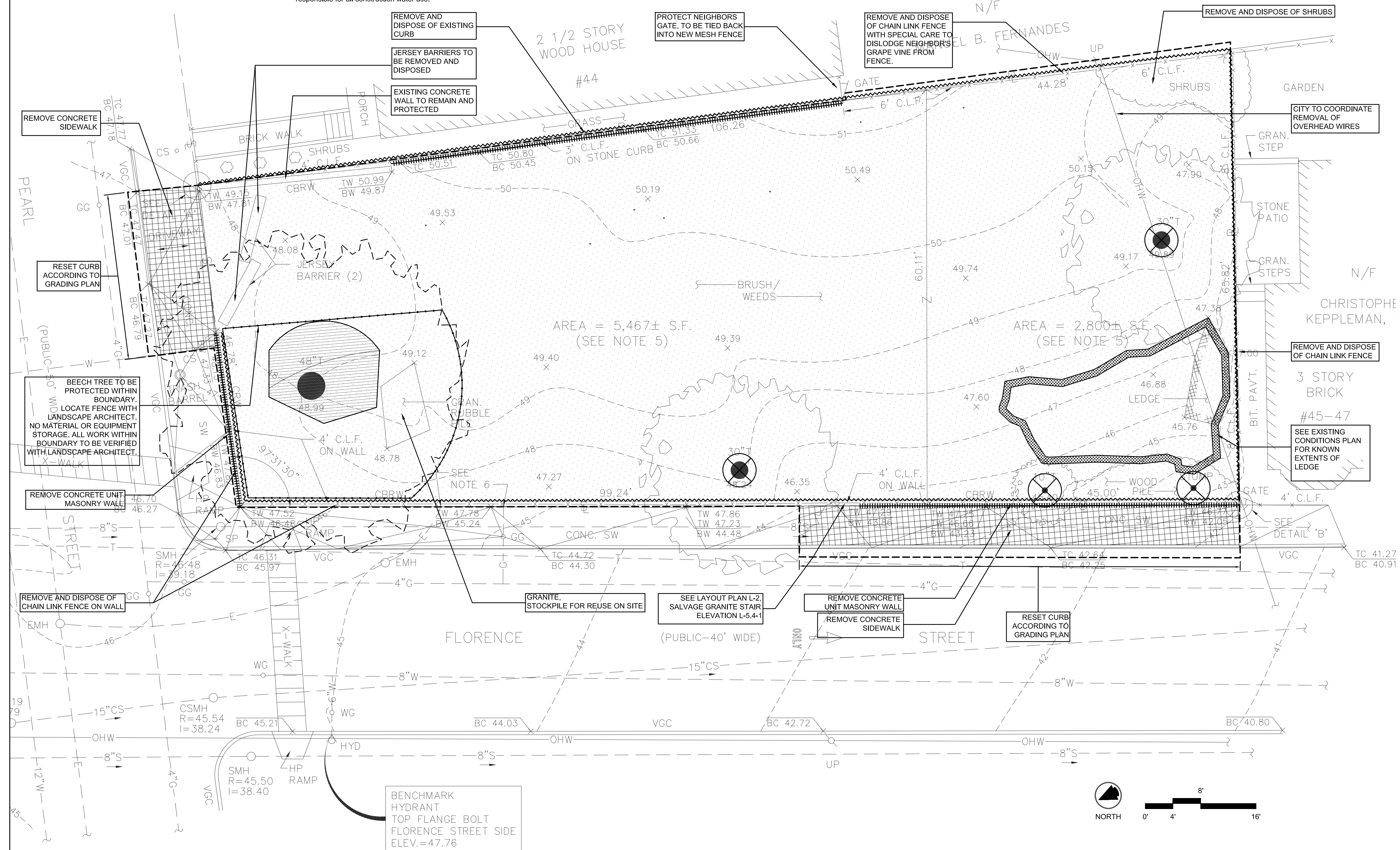
X-1.00

NOTES

1. In accordance with MGL chapter 82, section 40 including all amendments, all contractors should notify in writing all utility companies and government agencies prior to any excavation work, and call DIGSAFE (1-800-344-7233) prior to commencement of construction. Report any discrepancies in writing to the landscape architect and receive instructions prior to proceeding.
2. All items called for removal shall be removed to full depth including all footings, foundations, and other appurtenances, except as specifically noted otherwise.
3. Unless specifically noted to be saved or reused, all site features called for removal shall be removed from the site and legally disposed.
4. All existing site features to remain as indicated on the plan shall be protected throughout the construction period. Any features damaged during construction operations shall be repaired or replaced to the satisfaction of the City at no additional cost.
5. The site is to remain secure at all times prior to and during the construction period. The contractor shall install temporary 5' high construction fencing as necessary to ensure public safety, as directed by the Landscape Architect, see specification section 02100 Site Preparation.
6. 'Clear and grub' as indicated on plan shall include removal of shrubs and underbrush, removal of roots and general debris.

7. Strip & stockpile existing topsoil as required to accomplish the work of the contract for later reuse where appropriate, and as noted.
8. All work shall conform to Massachusetts DEP guidelines for herbicidal treatments, erosion and sedimentation control, latest version. Erosion control barriers to be installed at the toe of slopes. See specification section 01570 Environmental Protections.
9. Prior to commencing work the contractor shall ensure proper provisions are in place for controlling dust during construction activities. This includes provisions for on site water, water trucks, and any other item to aide in dust migration as approved by the Landscape Architect.
10. Maintain existing electrical connections and extend and connect to proposed structure locations per local code requirements. Contractor to stub off other laterals.
11. The contractor shall saw cut all existing concrete sidewalk pavement along Pearl Street and Florence Street prior to removal and disposal of adjacent pavements.
12. Contractor shall coordinate with Landscape Architect prior to demolition of existing concrete wall along Pearl Street and Florence Street.
13. Prior to construction, contractor shall obtain a temporary permit from the City water department for water use/meter. Contractor shall be responsible for all construction water use.

14. Construction access to the project site shall be limited to an entrance designated by the landscape architect on Pearl Street.
15. The storage of materials and equipment will be permitted at locations designated by the Landscape Architect. Protection of stored materials and equipment shall be the sole responsibility of the contractor.
16. Contractor is responsible for securing necessary traffic control details and measures per state and local requirements for any construction activity in the road/right-of-way.
17. Coordinate extents and dimensions of all wall and hardscape removals with layout plan and elevations.
18. Japanese Knotweed (Polygonum cuspidatum) has been located on the site. Refer to specification Section 02100 Site Preparation for control and disposal of this invasive species.
19. Cut and fills are not balanced. Because this project requires significant cut, coordinate removals with Landscape Architect.



LEGEND

- TOPSOIL TO BE CLEARED, GRUBBED AND STOCKPILED FOR OPTIONAL REUSE (DISPOSED IF NOT REUSED)
- TREE, STUMP, AND ROOT SYSTEM TO BE REMOVED AND DISPOSED
- CONCRETE PAVING TO BE REMOVED AND STOCKPILE FOR OPTIONAL REUSE (DISPOSED IF NOT REUSED)
- NO GRADING IN THIS AREA
- TREE PROTECTION FENCING
- CHAINLINK FENCE & FOOTINGS TO BE REMOVED AND DISPOSED OF
- CONCRETE WALL & FOUNDATION TO BE REMOVED AND DISPOSED OF
- GRANITE LEDGE
- LIMIT OF WORK

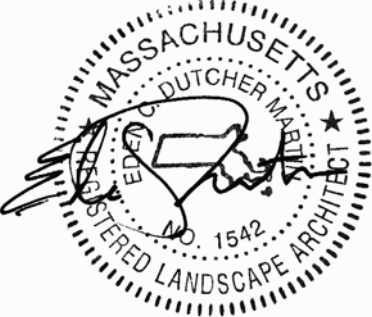
GROUNDVIEW

landscape architecture
urban design
6 Dal Street
Somerville, MA 02145
617.648.3888

© GroundView LLC

CONSULTANT

CERTIFICATION



City of Somerville
Plans for the Construction of:
Symphony Park
Pearl Street
Somerville, MA



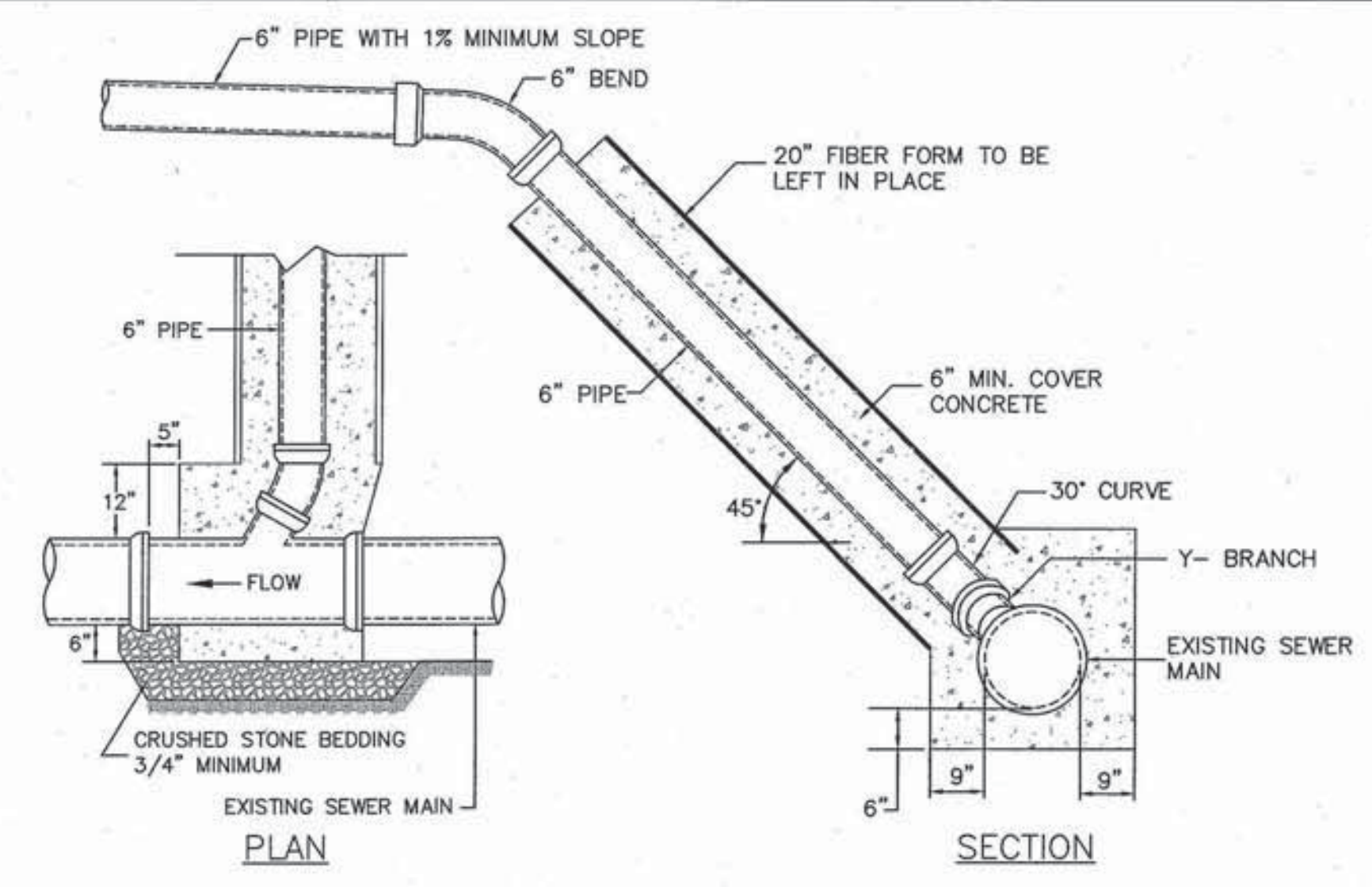
ISSUED	
PURPOSE	DATE

BID DOCUMENTS

SCALE: AS NOTED	DATE: 05.12.14
DRAWN BY: ED	CHECKED BY: WM

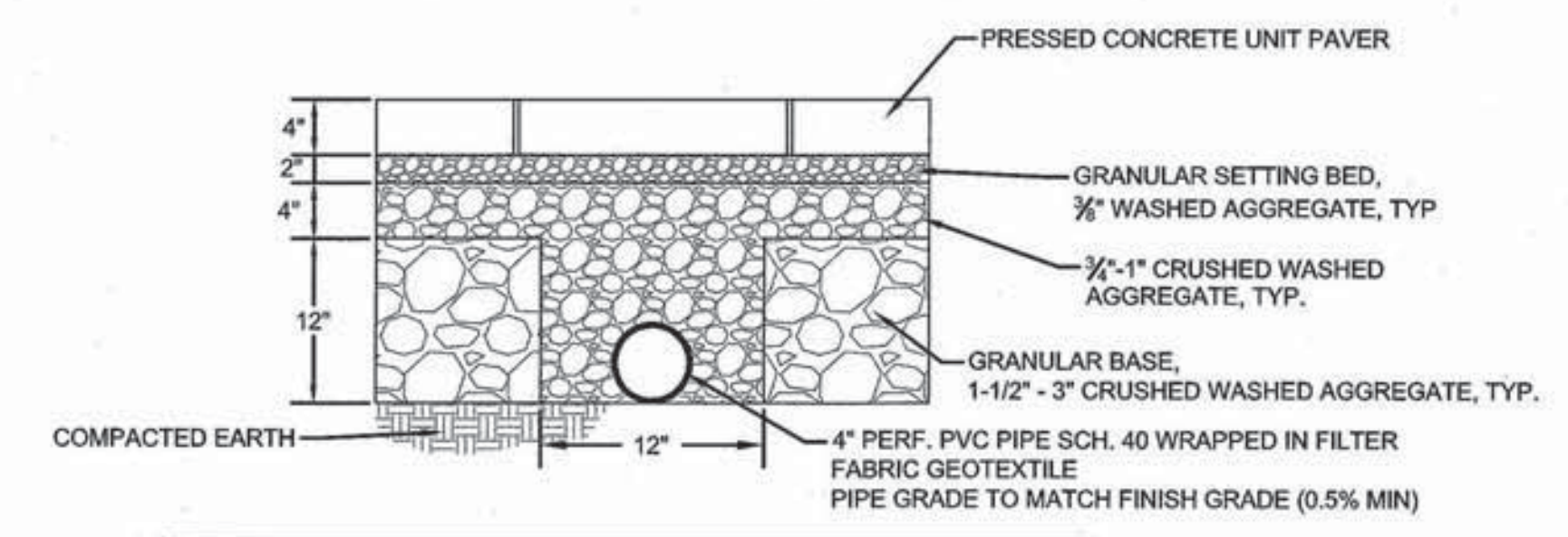
SHEET
**SITE
PREPARATION
PLAN**
L-0.00

- LEGEND**
- /// BUILDING LINE
 - PROPERTY LINE
 - STREET LINE
 - S — SANITARY SEWER LINE
 - CS — COMBINED SEWER LINE
 - W — WATER LINE
 - G — GAS LINE
 - E — ELECTRIC LINE
 - T — TELEPHONE LINE
 - OHW — OVERHEAD WIRE
 - SMH — SEWER MANHOLE
 - CSMH — COMBINED SEWER MANHOLE
 - DMH — DRAIN MANHOLE
 - ▣ CB — CATCH BASIN
 - EMH — ELECTRIC MANHOLE
 - ▣ PB — PULL BOX
 - ⊗ UP — UTILITY POLE
 - ☆ LP — LIGHT POLE
 - WMH — WATER MANHOLE
 - WG — WATER GATE
 - △ HYD. — HYDRANT
 - CS — CURB STOP
 - SP — SIGN POST
 - GG — GAS GATE
 - R = — RIM ELEVATION
 - I = — INVERT ELEVATION
 - UGE — PROPOSED UNDERGROUND ELEC.
 - W — WATER LINE
 - PR — PRESSURE RETURN
 - - - 4" PERFORATED UNDERDRAIN
 - UNDERDRAIN FLOW DIRECTION



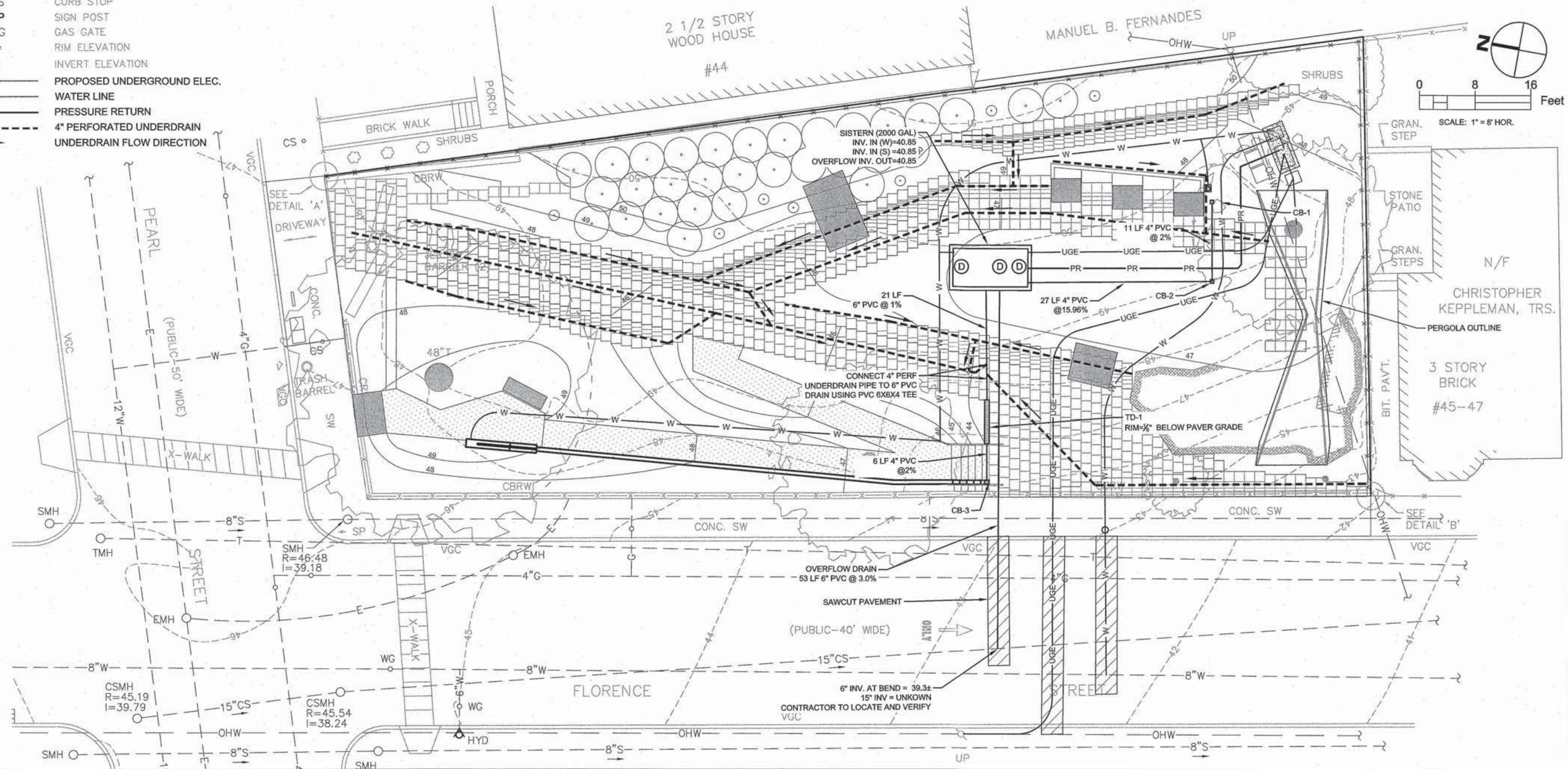
OVERFLOW PIPE WITH 45° CONNECT TO EXISTING SEWER

NOT TO SCALE



PERFORATED UNDERDRAIN SECTION DETAIL

NOT TO SCALE



GROUNDVIEW
landscape architecture
urban design
8 Oak Street
Somerville, MA 02144
617.624.5885

CONSULTANT
Design Consultants, Inc.
Consulting Engineers and Surveyors
100 Woburn Avenue
Somerville, MA 02143
617.759.3300

CERTIFICATION

M.B.S. 2014

City of Somerville
Plans for the Construction of:
Symphony Park
Pearl Street
Somerville, MA

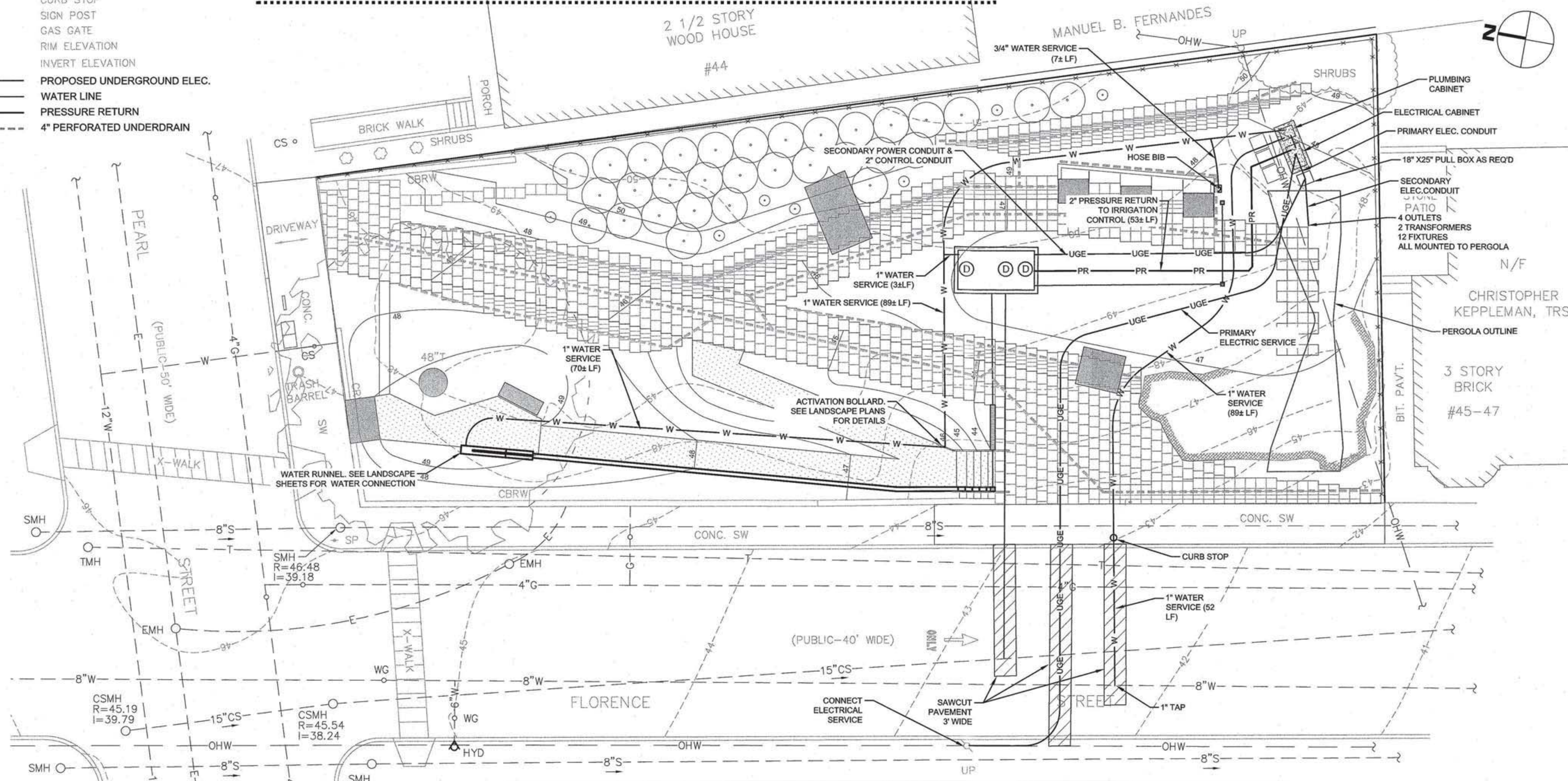
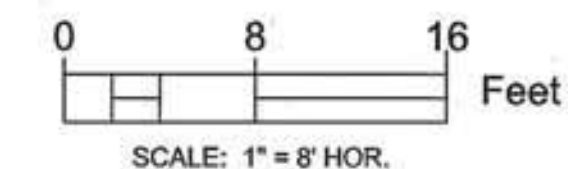
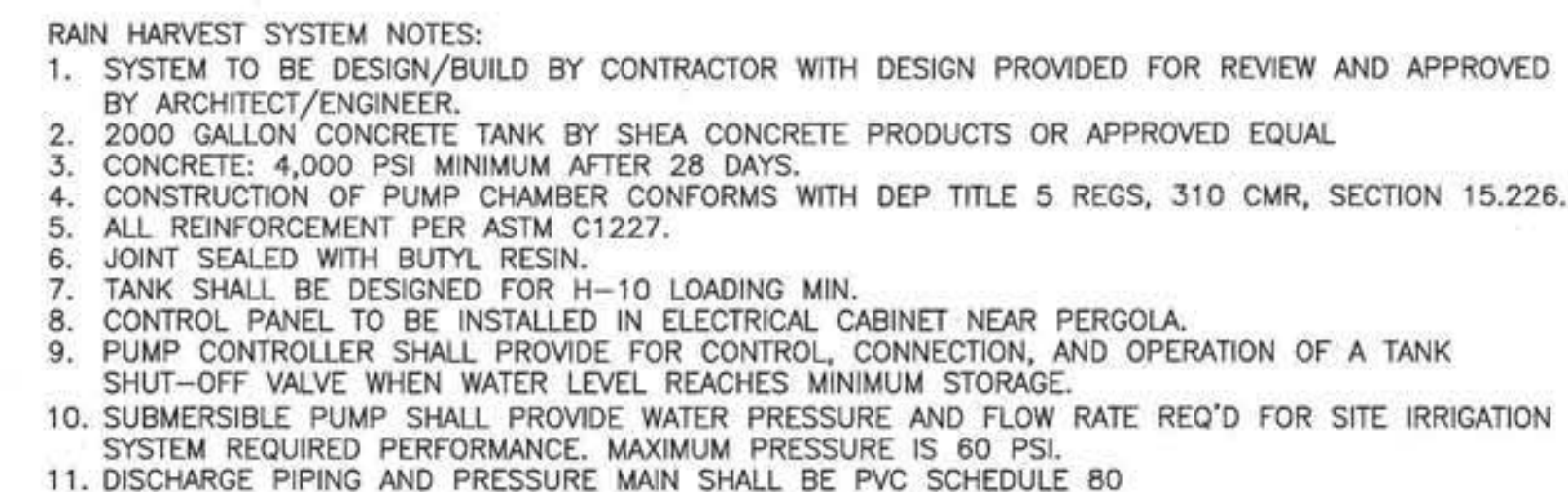
PURPOSE	DATE

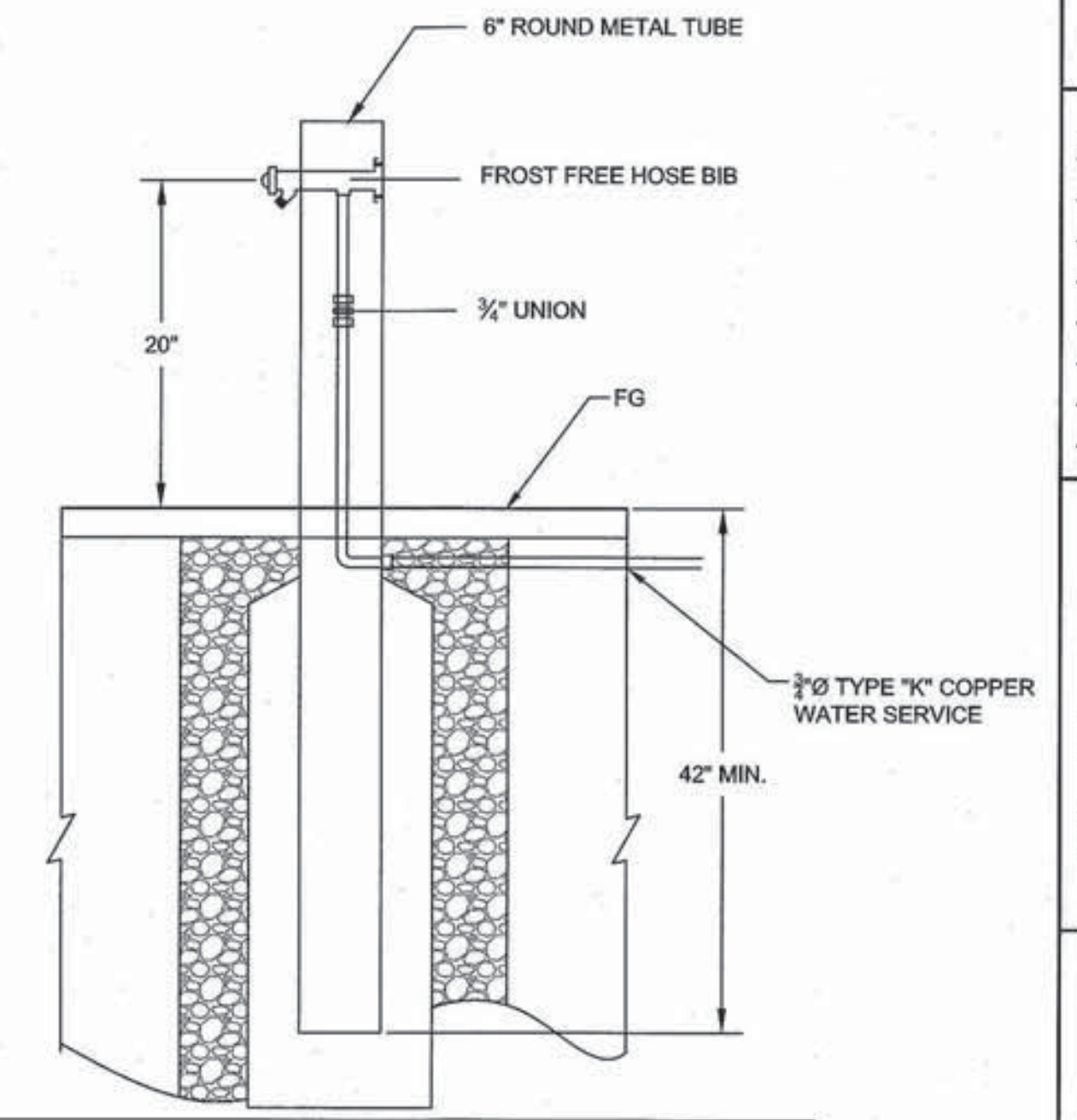
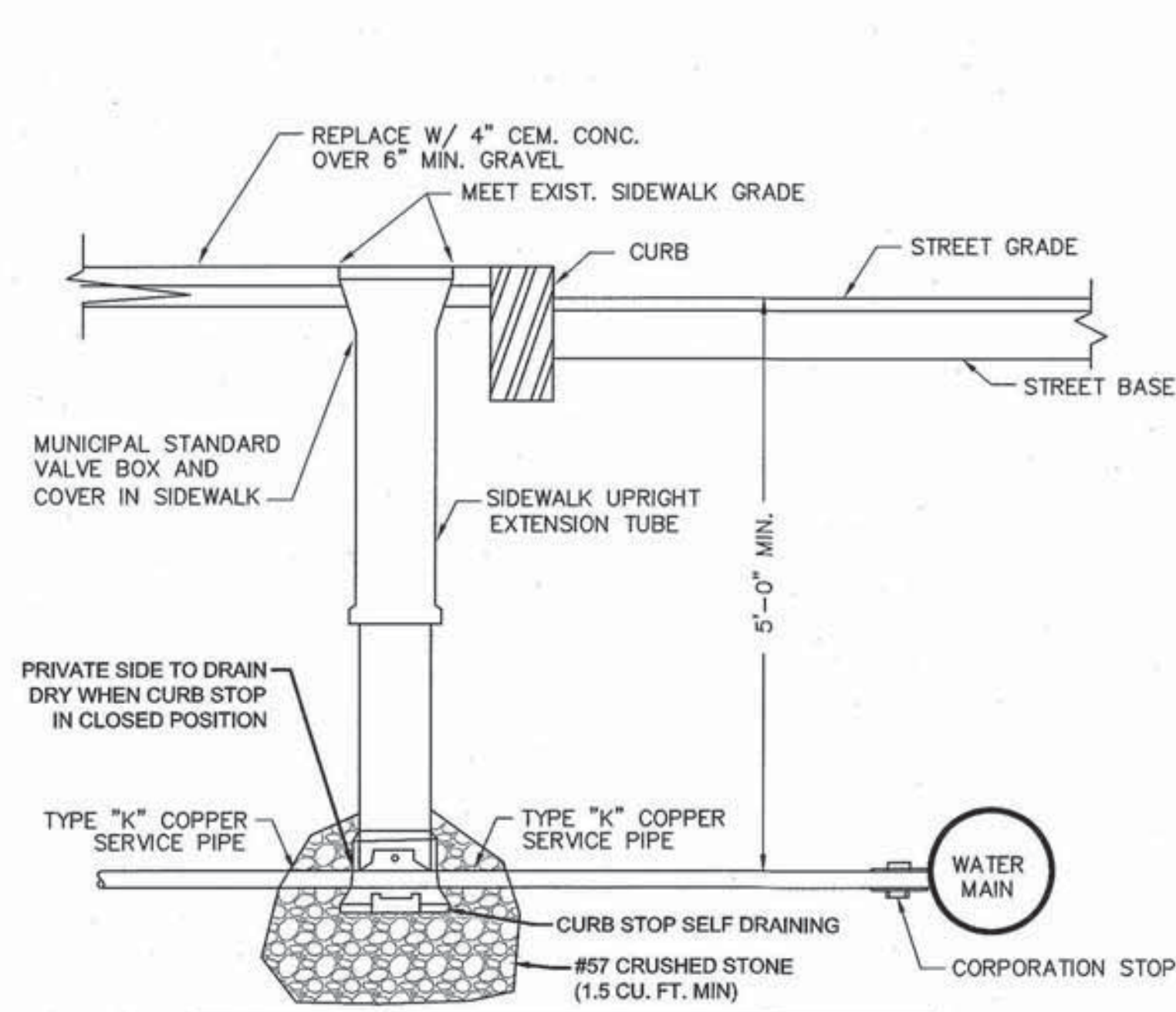
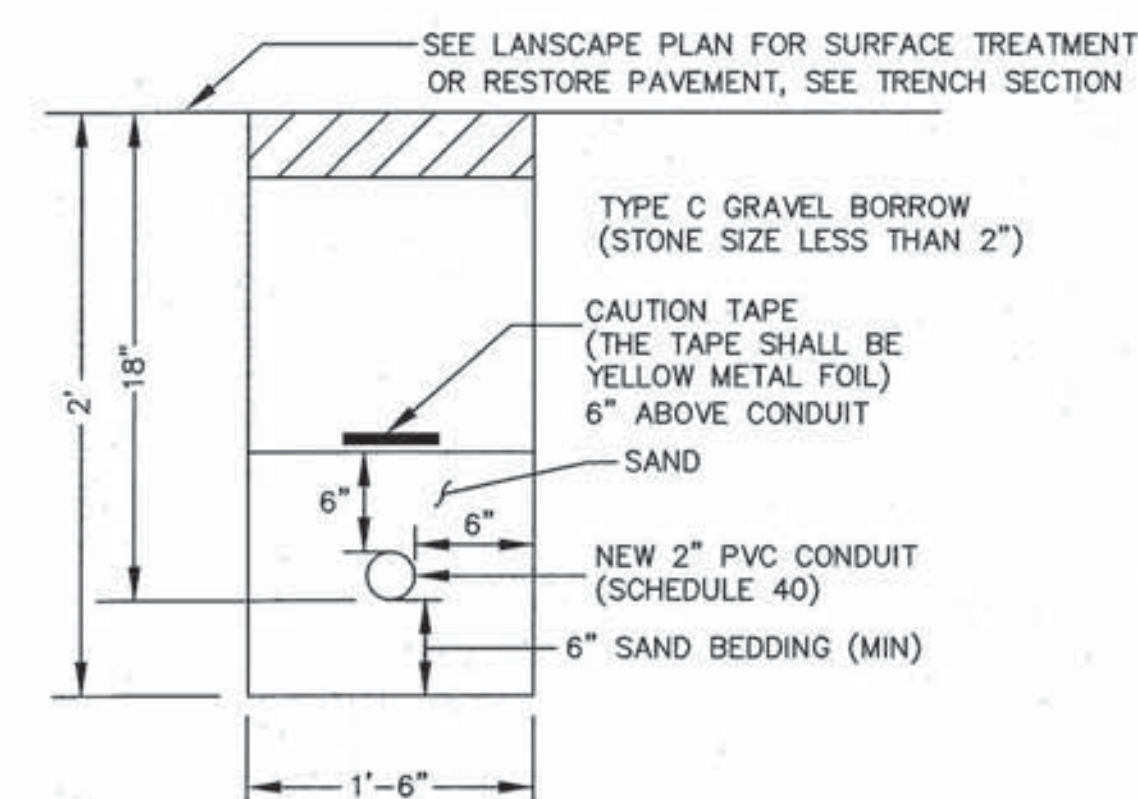
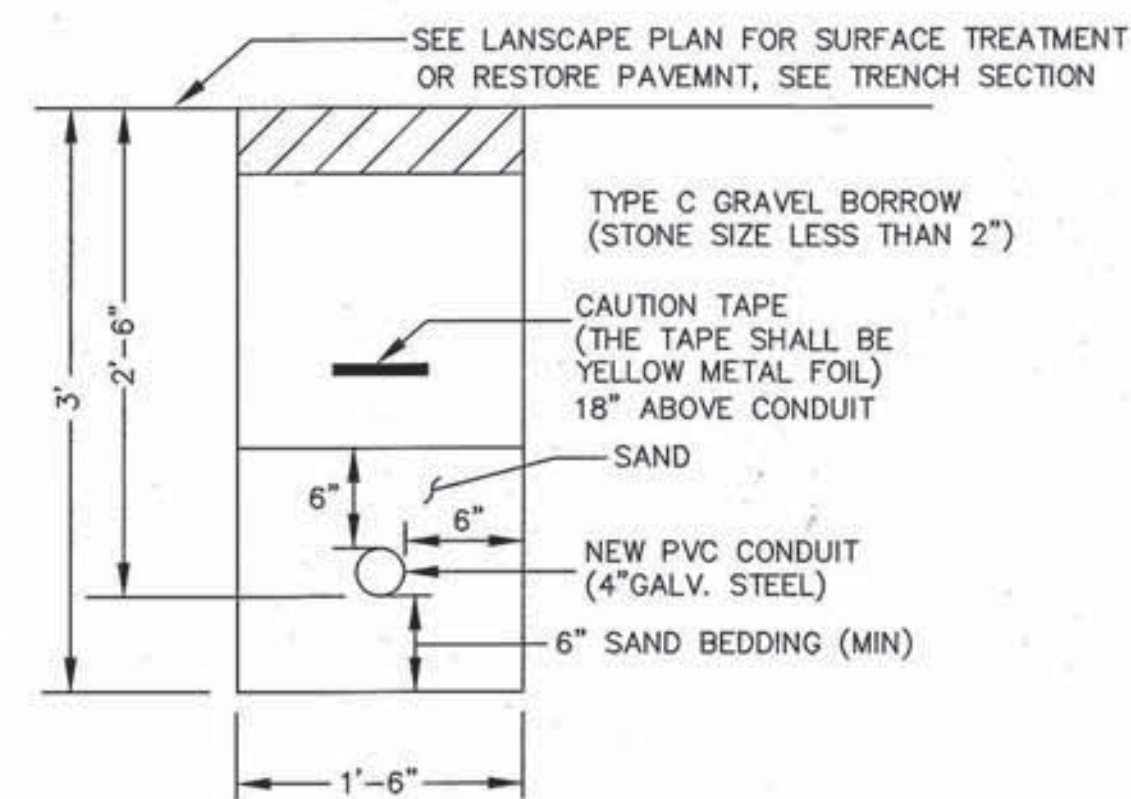
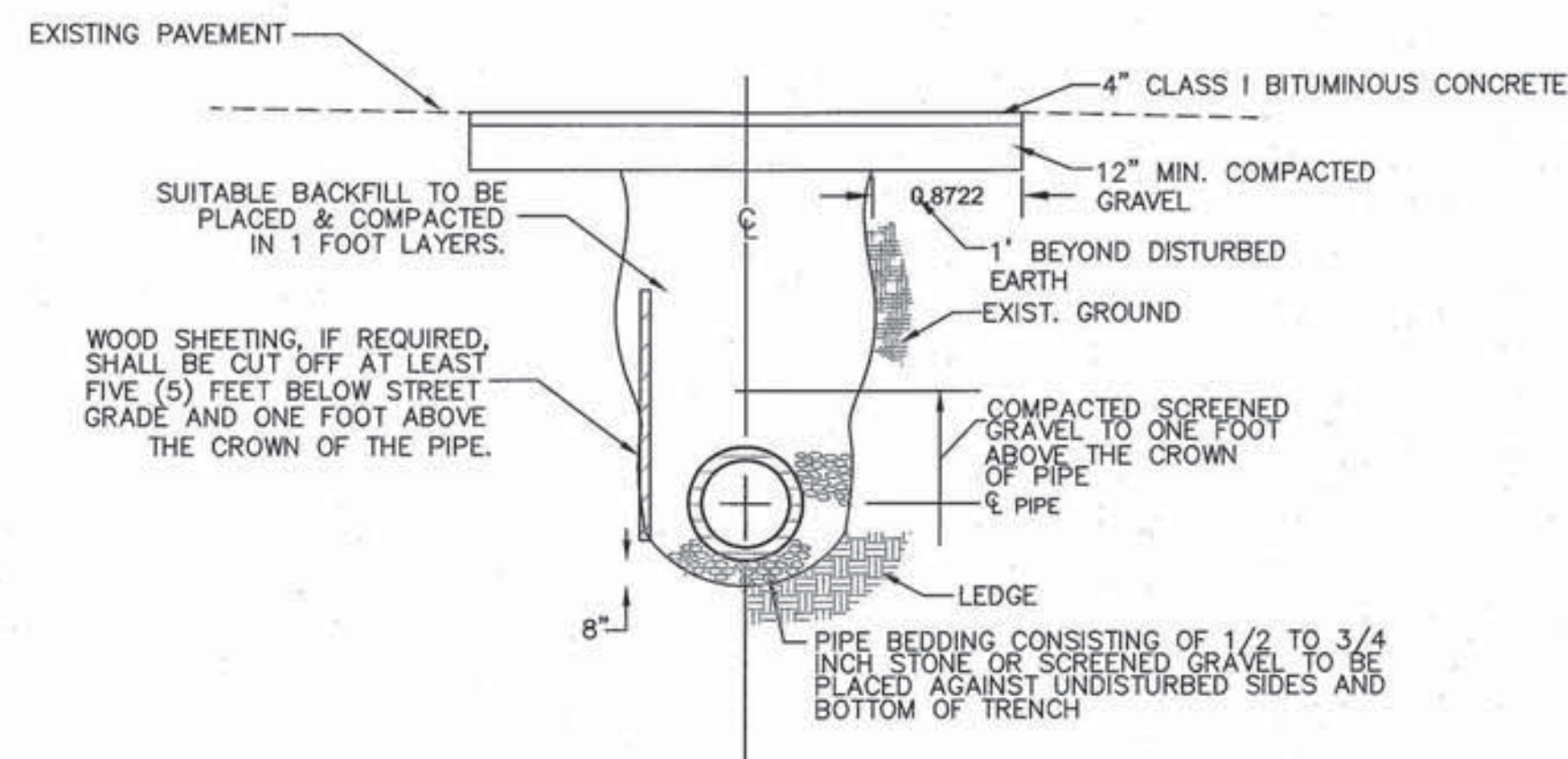
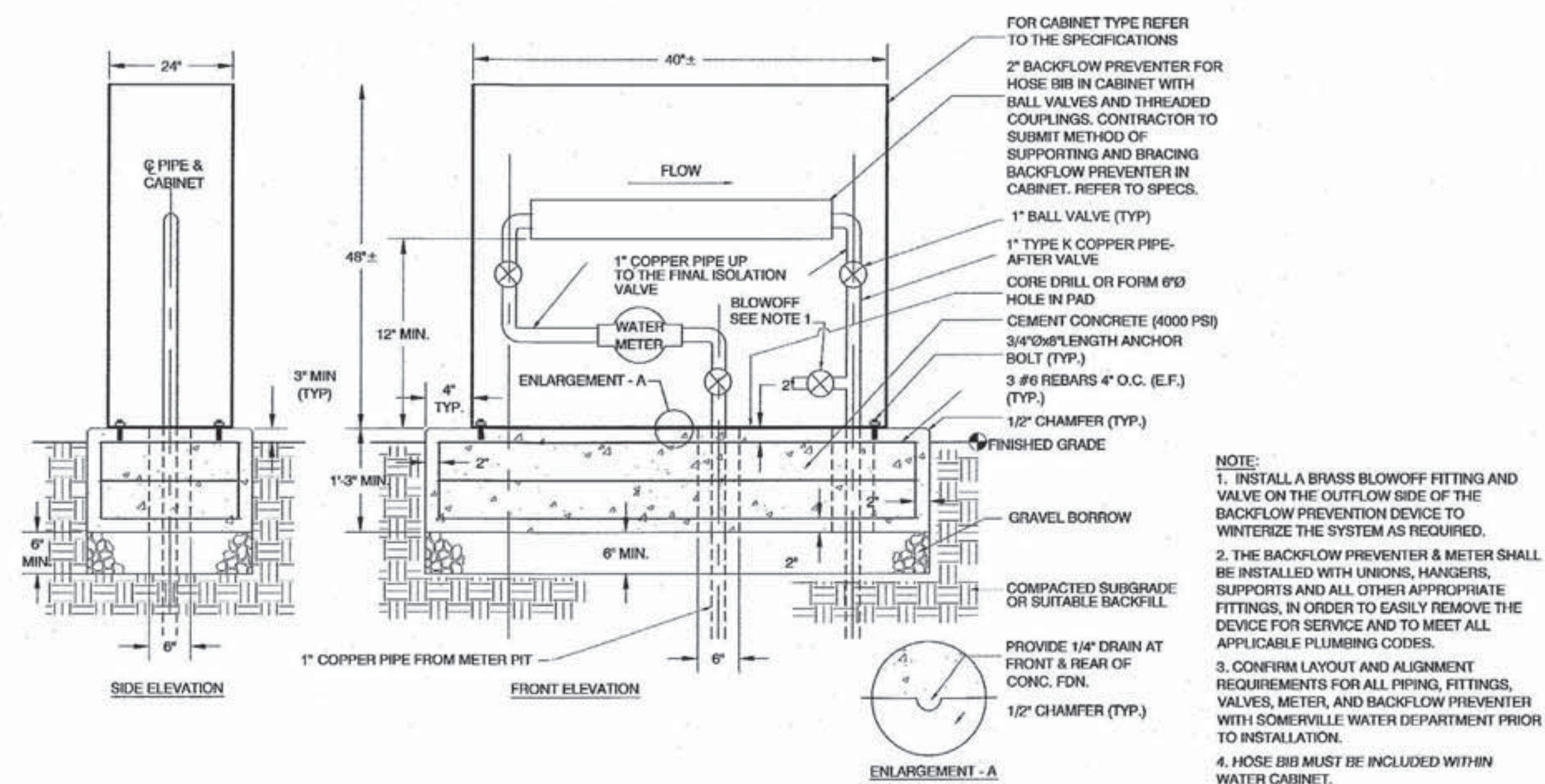
BID DOCUMENTS

SCALE: 1"=8'	DATE: 05.12.14
DRAWN BY: JK	CHECKED BY: SS

SHEET
DRAINAGE PLAN
C-1

	BUILDING LINE
	PROPERTY LINE
	STREET LINE
	SANITARY SEWER LINE
	COMBINED SEWER LINE
	WATER LINE
	GAS LINE
	ELECTRIC LINE
	TELEPHONE LINE
	OVERHEAD WIRE
	SEWER MANHOLE
	COMBINED SEWER MANHOLE
	DRAIN MANHOLE
	CATCH BASIN
	ELECTRIC MANHOLE
	PULL BOX
	UTILITY POLE
	LIGHT POLE
	WATER MANHOLE
	WATER GATE
	HYDRANT
	CURB STOP
	SIGN POST
	GAS GATE
	RIM ELEVATION
	INVERT ELEVATION
	PROPOSED UNDERGROUND ELEC.
	WATER LINE
	PRESSURE RETURN
	4" PERFORATED UNDERDRAIN



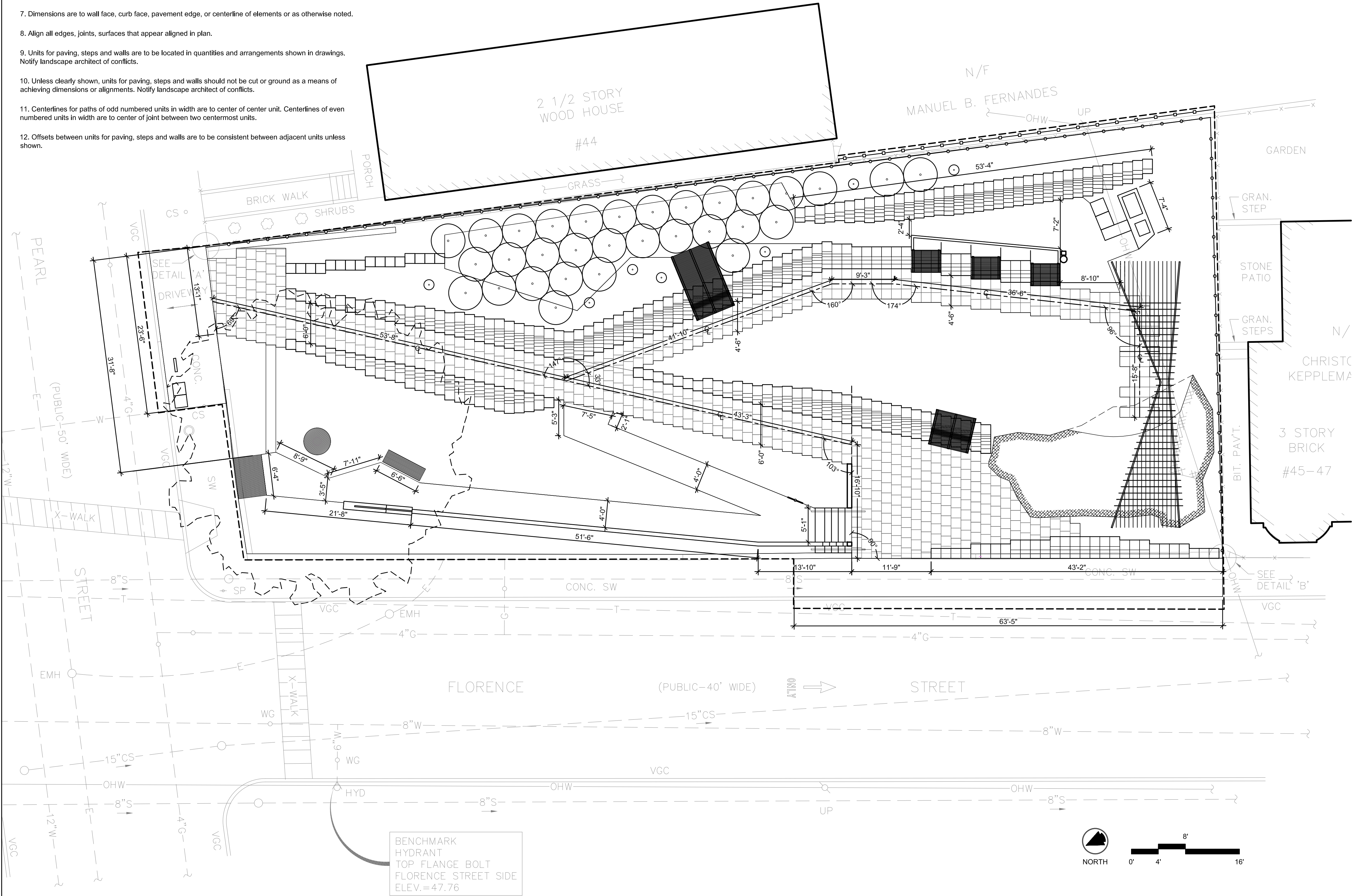


NOTES

1. ALL EXISTING CITY AND PRIVATE UTILITY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND THEIR EXACT LOCATIONS ARE NOT GUARANTEED.
2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
3. DURING EXCAVATION AND CONSTRUCTION OF PIPES AND STRUCTURES, TRENCHES MUST BE ADEQUATELY BRACED AND PROTECTED AGAINST CAVE-IN.
4. TRENCH AREAS FOR THE CONSTRUCTION OF THE UNDERGROUND UTILITIES ARE TO BE REPATCHED WITH SAME MATERIAL AT THE SAME DEPTH AS THE EXISTING MATERIAL. THE AREAS OF TRENCHING SHALL BE NEATLY SAW-CUT AND THE NEW REPATCHING MATERIAL SHALL BE PROPERLY SEALED IN ACCORDANCE TO THE CITY OF SOMERVILLE MUNICIPAL STANDARDS.
5. NO TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT. ALL TRENCHES SHALL BE BACKFILLED AT THE END OF THE WORK DAY OR COVERED WITH STEEL PLATES PER 520 CMR 14.00 EXCAVATION AND TRENCH SAFETY. IF STEEL PLATES ARE USED, THE TOTAL LENGTH OF PLATES IN THE TRAVELED WAY WILL BE LIMITED TO 50'.
6. WHERE EXISTING SIDEWALKS ARE DAMAGED BY TRENCHES, A 1.5% CROSS SLOPE SHALL BE MAINTAINED ON ALL NEW SIDEWALKS.
7. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
8. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
9. THE TERM "PROPOSED" (PROP) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET". (R&R)
10. ALL DRAIN PIPES SHALL BE LAID AT A MINIMUM SLOPE OF 0.5%, UNLESS OTHERWISE SHOWN ON THE DRAWINGS, OR AS DIRECTED BY THE FIELD ENGINEER.
11. THE CITY OF SOMERVILLE MUNICIPAL UTILITIES (WATER, SEWER & DRAIN) ARE PART OF DIG-SAFE. REQUEST FOR MARKINGS CAN BE MADE BY CALLING DIG-SAFE AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO THE EXCAVATION. STREET OPENING PERMITS SHOULD ALSO BE FILED AT THAT TIME.
12. ALL WORK PERFORMED AS PART OF THIS PROJECT SHALL CONFORM TO THE CITY OF SOMERVILLE, DEPT. OF PUBLIC WORKS AND ANY OTHER AGENCY WITH AUTHORITY IN THIS AREA. IF THERE IS A QUESTION OF WHICH SPECIFICATION TO USE, MASSDOT, HIGHWAY DIVISION STANDARDS SHALL PREVAIL.
13. WATER MAINS ARE ASSUMED TO BE 5 FEET BELOW THE EXISTING GROUND SURFACE. GAS LINES ARE ASSUMED TO BE 3 FEET BELOW THE EXISTING GROUND SURFACE. TELEPHONE LINES AND TRAFFIC SIGNAL CONTROLS ARE ASSUMED TO BE 2' BELOW THE EXISTING GROUND SURFACE.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE RESTORATION AND CLEAN UP UPON COMPLETION OF THE PROJECT.
15. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES AND PROCEDURES, AND FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH ALL WORK INCLUDED UNDER THIS CONTRACT. THE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL SAFETY BARRIERS, WARNING FLASHERS, AS REQUIRED BY THE CONDUCT OF THE WORK FOR THE PROTECTION OF WORKERS AND NON-WORKERS ALIKE. THE CONTRACTORS ATTENTION IS DIRECTED TO OSHA REQUIREMENTS.
16. ALL CONSTRUCTION SIGNAGE SHALL CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST ADDITION.
17. DURING THE COURSE OF CONSTRUCTION ANY DAMAGE TO EXISTING FENCES, RETAINING WALLS, GUARD RAILS, PATHS, STAIRS, VEGETATION, ETC. SHALL BE REPAIRED OR REPLACED TO ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
18. CONTRACTOR TO MAINTAIN WORK AREA IN A CLEAN CONDITION. NO CONSTRUCTION DEBRIS SHALL BE ALLOWED TO ACCUMULATE WITHIN THE WORKSITE AND NO DIRT, GRAVEL, ETC. SHALL BE ALLOWED TO ACCUMULATE ON THE PUBLIC RIGHT-OF-WAY.
19. BACK-FLOW-PROVENTER (BFP) SHALL BE TYPE APPROVED BY THE MASS. DEP 310 CMR 22.22 (10), THE STATE PLUMBING CODE, AND THE CITY OF SOMERVILLE DEPT. OF PUBLIC WORKS.

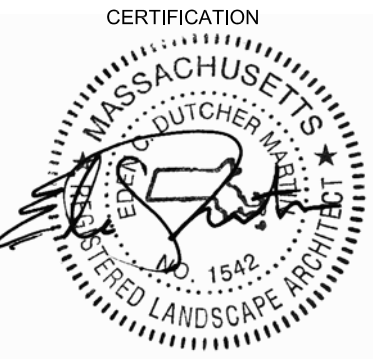
LAYOUT PLAN NOTES

1. Layout plan provides layout of all site elements and their foundations. See Utility Plan for location of subgrade utility locations. See Planting Plan for plant material layout.
2. Employ licensed surveyor to verify and layout baselines, centerlines, dimensions and elevations.
3. Report any layout discrepancies to landscape architect immediately for written resolution prior to installation of element.
4. All proposed site elements shall be laid out and staked prior to installation for review and approval by the landscape architect. Any required adjustments to the layout shall be undertaken as required at no additional cost to the owner.
5. Landscape architect will work directly with contractor to establish layout of all site elements and adjust as necessary for field conditions.
6. Dimensions from the corner of site are from property line corners. All layout lines, offsets, or references to locating elements are either: (A) parallel or perpendicular to property lines, (B) designated by angles or dimensions shown in drawings.
7. Dimensions are to wall face, curb face, pavement edge, or centerline of elements or as otherwise noted.
8. Align all edges, joints, surfaces that appear aligned in plan.
9. Units for paving, steps and walls are to be located in quantities and arrangements shown in drawings. Notify landscape architect of conflicts.
10. Unless clearly shown, units for paving, steps and walls should not be cut or ground as a means of achieving dimensions or alignments. Notify landscape architect of conflicts.
11. Centerlines for paths of odd numbered units in width are to center of center unit. Centerlines of even numbered units in width are to center of joint between two centermost units.
12. Offsets between units for paving, steps and walls are to be consistent between adjacent units unless shown.



© GroundView LLC

CONSULTANT



City of Somerville
Plans for the Construction of:
Symphony Park
Pearl Street
Somerville, MA



ISSUED	
PURPOSE	DATE

BID DOCUMENTS

SCALE: AS NOTED	DATE: 05.12.14
DRAWN BY: ED	CHECKED BY: WM

SHEET
LAYOUT PLAN

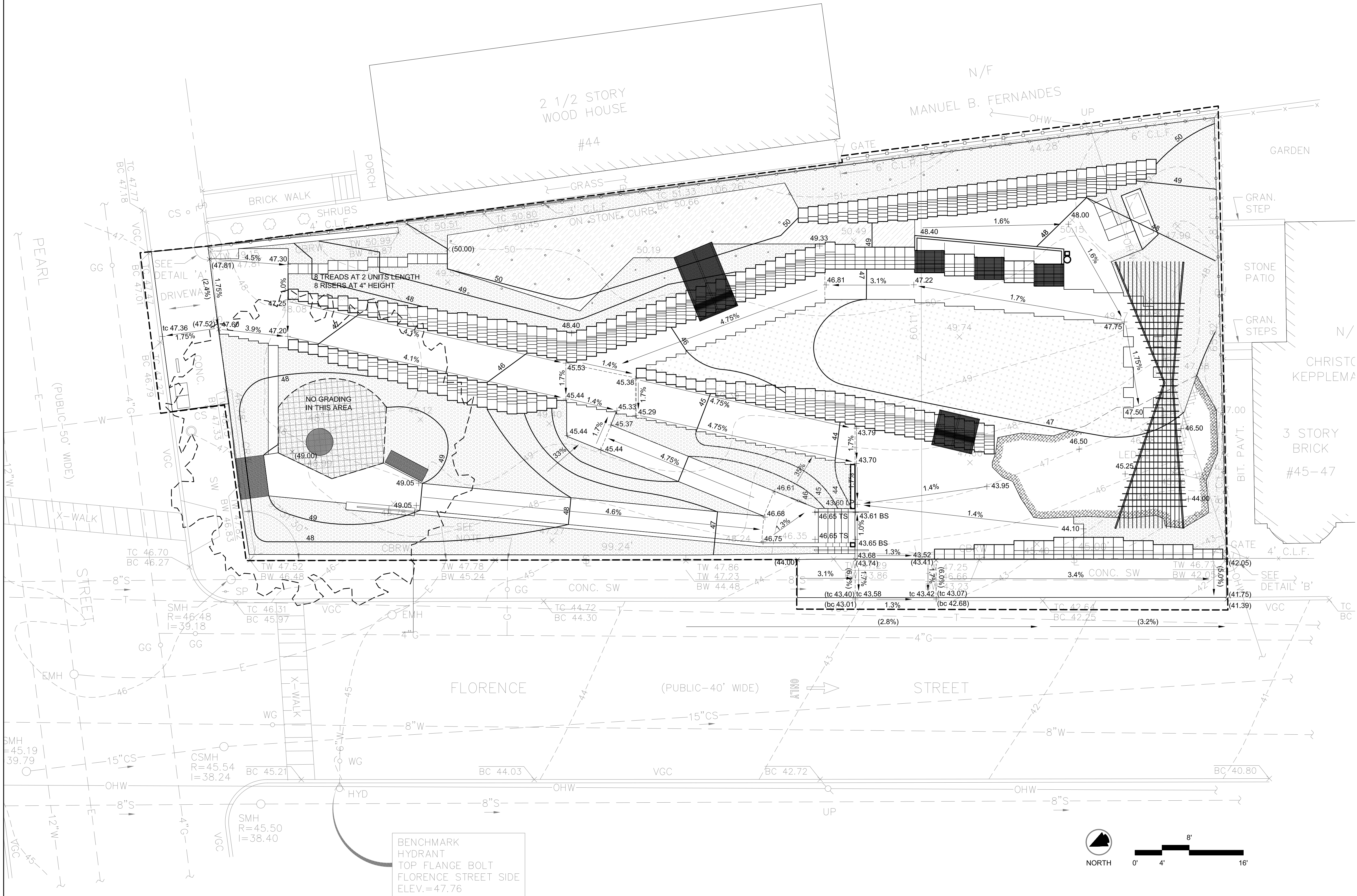
L-2.00

NOTES

1. All work relating to installation, renovation or modification of water, drainage and/or sewer services shall be performed in accordance with the standards of the City of Somerville.
2. Contour interval is 1'-0".
3. Grade evenly between grades and contours.
4. All proposed pavements shall meet the line and grade of existing adjacent pavement surfaces.
5. Pitch pavement to provide positive drainage. Notify landscape architect before placing; pavement with a pitch of 4.75% or greater; and cross pitch greater than 2% or less than .75%.
6. Existing 48" caliper beech tree to be protected above all else. Do not grade in the no grade zone and take care when installing site improvements in tree root zone not to damage roots.
7. Rim elevations of drainage and utility structures to be flush with final surrounding grades so not to cause a trip edge.
8. All rough grading will be staked and reviewed in field by landscape architect prior to installation.
9. Final grading shall be approved in the field by landscape architect.
10. Excavate by hand in proximity to existing Beech tree, existing utilities and existing structures.
11. See Utility Plan for storm drainage infrastructure.
12. Cut and fills are not balanced. Because this project requires significant cut, coordinate removals with Landscape Architect.

LEGEND

- x (00.00) EXISTING SPOT GRADE
- + 00.00 PROPOSED SPOT GRADE
- tc TOP OF CURB ELEVATION
- bc BOTTOM OF CURB ELEVATION
- TS TOP OF STAIR ELEVATION
- BS BOTTOM OF STAIR ELEVATION
- 0.0% SLOPE
- GRADE BREAK
- NO GRADING IN THIS AREA
- LIMIT OF WORK



1. All plant material to be tagged and approved by landscape architect prior bringing to the site.
2. The contractor shall identify proposed tree locations prior to placement with a stake and coordinate with the landscape architect to make any necessary adjustments before actual placement. The contractor shall not place new trees directly under overhead wires or above utility lines.
3. The contractor shall layout shrubs, grasses, perennials & bulbs and coordinate with the landscape architect to make any necessary adjustments before planting.
4. Plant locations shown on this plan are approximate only and shall be approved in the field by landscape architect prior to installation.
5. If necessary the contractor shall maintain temporary erosion control blanket during ground cover application until areas are established.
6. All planting areas to be irrigated. Irrigation to be design/build. Irrigation company and design to be approved by landscape architect. "Pop-up" spray heads for use in lawn area and "drip" system in tree wells and planting beds. See Specifications, section 02810 for requirements.

Symbol	Botanical Name	Size
Quantity	Common Name	Notes
TREES		
BE PO	<i>Betula populifolia</i> 'Whitespire Sr.'	2" - 2.5" cal.
16	Whitespire Birch	single stem
BE UT	<i>Betula utilis</i> 'Jacquemontii'	2" - 2.5" cal.
15	Whitebarked Himalayan birch	single stem
CA OV	<i>Carya ovata</i>	24" tall
7	Shagbark Hickory	

☼ **Matrix 1: Groundcover**

Ha ma	<i>Hakonechloa macra</i> "All Gold"	4" pot
650	Hakone Grass	
Or vu	<i>Origanum vulgare</i>	4" pot
250	Golden Oregano	
Al er	<i>Alchemilla erythropoda</i>	4" pot
550	Lady's Mantle	
Al sc	<i>Allium schoenoprasum</i>	4" pot
250	Chives	
He Ci	<i>Heuchera</i> 'Citonelle'	4" pot
550	Coral Bells 'Citonelle'	

La an 40	<i>Lavandula angustifolia</i> English Lavender	2 gal. 1" sand layer beneath plant
Sp ja 40	<i>Spiraea japonica</i> 'Alpina' Alpina Japanese Spirea	2 gal.
Ca am 100	<i>Callicarpa americana</i> Beautyberry	2 gal.
Ca am 100	<i>Astilbe chinensis</i> "Diamonds and Pearls" Perennial Spirea	2 gal.
Ca am 40	<i>Salvia officinalis</i> Common Sage	2 gal.

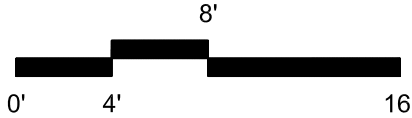
Pe al 275300	<i>Pennisetum alopecuroides</i> Fountaingrass	1 gal.
Pe or 300	<i>Pennisetum orientale</i> Oriental Fountaingrass	1 gal.
Mi si 25	<i>Miscanthus sinensis</i> "Morning Light" Morning Light Maiden Grass	3 gal.
Sp he 440	<i>Sporobolus heterolepis</i> Prairie Dropseed	1 gal.

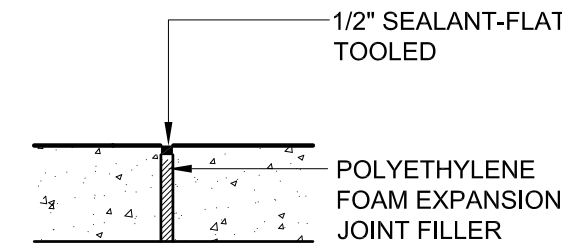
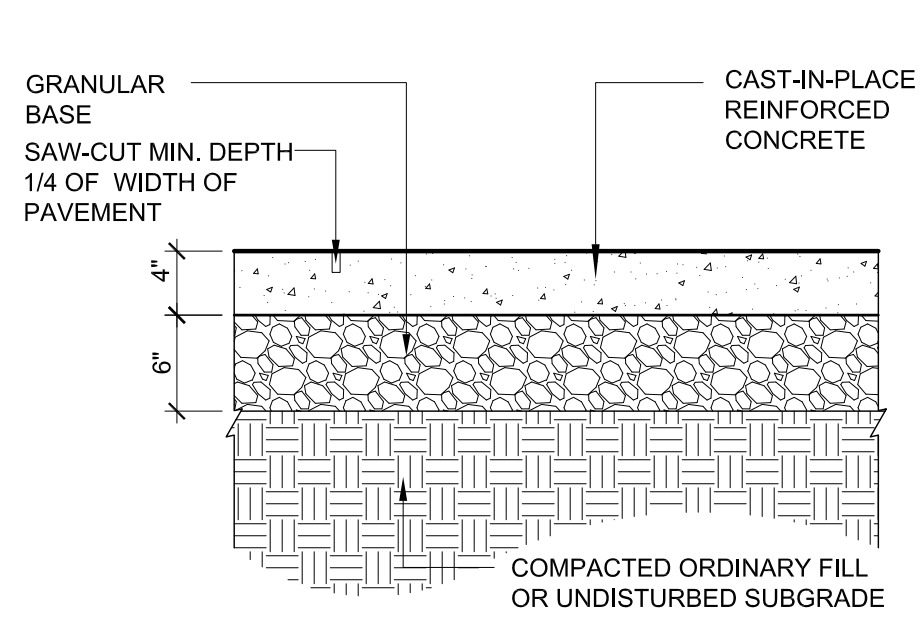
Wi fr	<i>Wisteria frutescens</i> "Amethyst Falls"	10 gal.
5	American Wisteria	

Al af	<i>Allium aflatumense</i> "Purple Sensation"	bulb
3,000	Flowering Onion	
Na Jo	<i>Narcissus jonquilla</i> 'Green Eyes'	
3,000	Green Eyes Daffodil	bulb

970 sf	<i>Fescue Mix</i>	SOD
--------	-------------------	-----

- LIMIT OF WORK

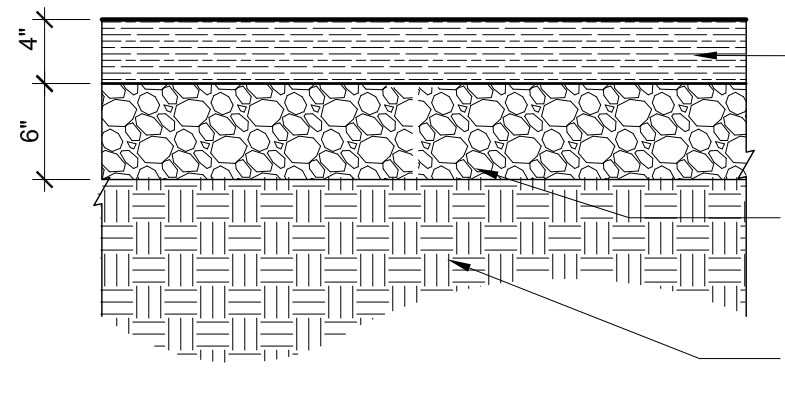
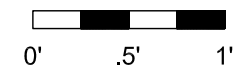




EXPANSION JOINT DETAIL
NOT TO SCALE

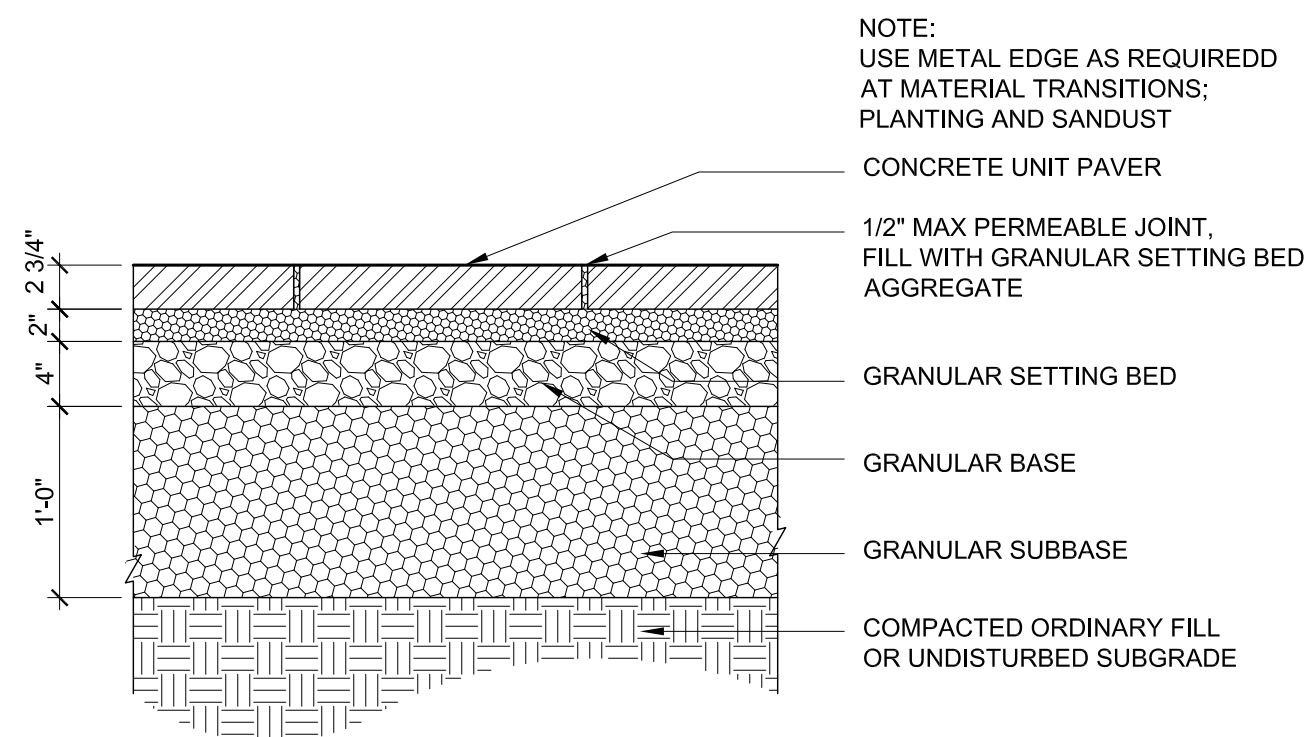
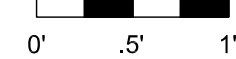
NOTES:
1. SUPPLY EXPANSION JOINT WITH SEALANT WHERE SIDEWALK ABUTS CURBS AND WALLS. INSTALL EXPANSION JOINTS @ +20'-0" O.C. OR AS SHOWN ON DRAWING.

1 CONCRETE PAVING

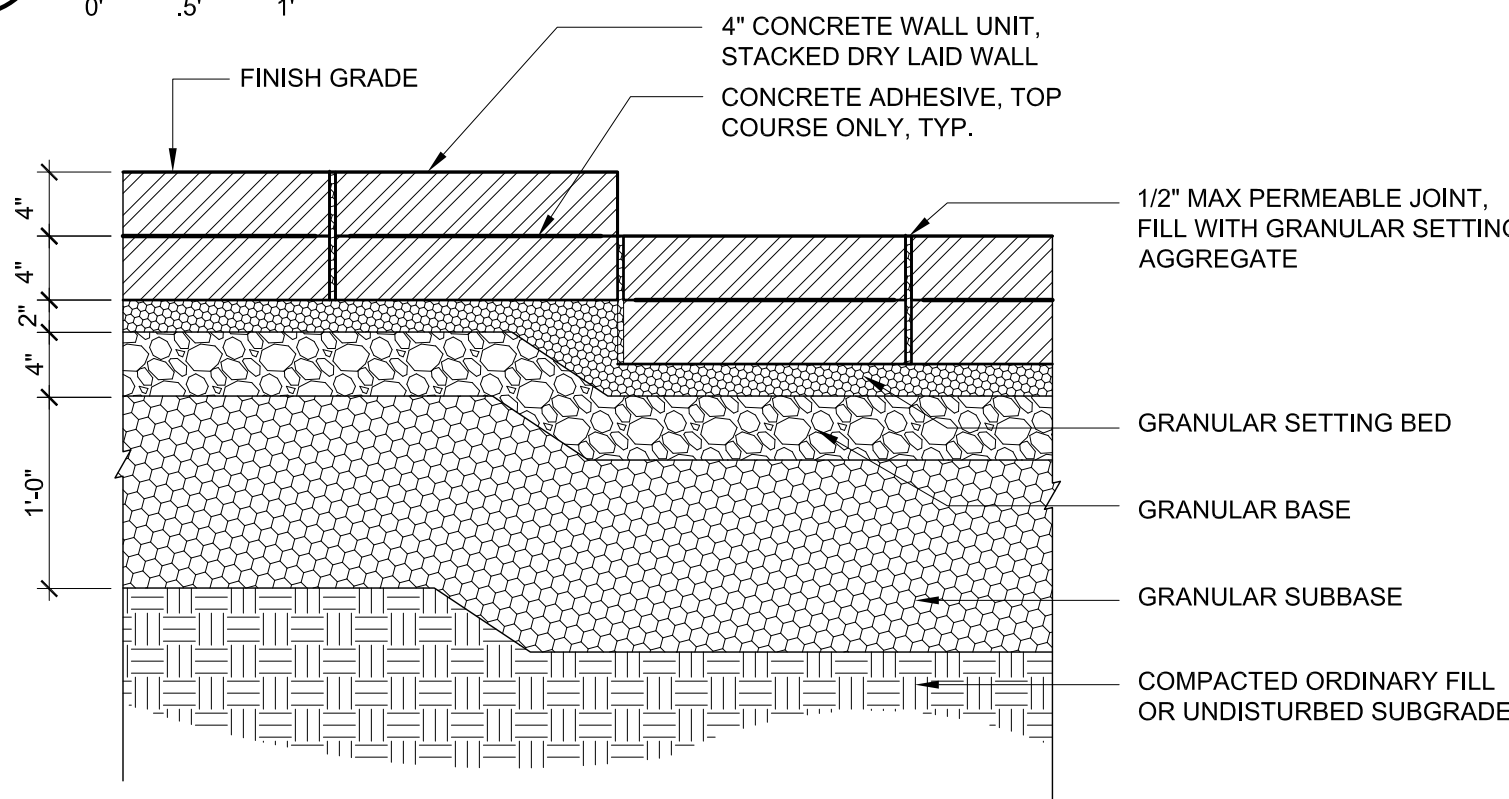
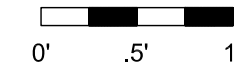


NOTE:
1. DO NOT ROOT PRUNE EXISTING FAGUS TREE IN STONE DUST AREAS. VARY BASE AND DEPTH
2. USE METAL EDGE AS REQUIRED AT MATERIAL TRANSITIONS; PLANTING AND PERMEABLE PAVERS

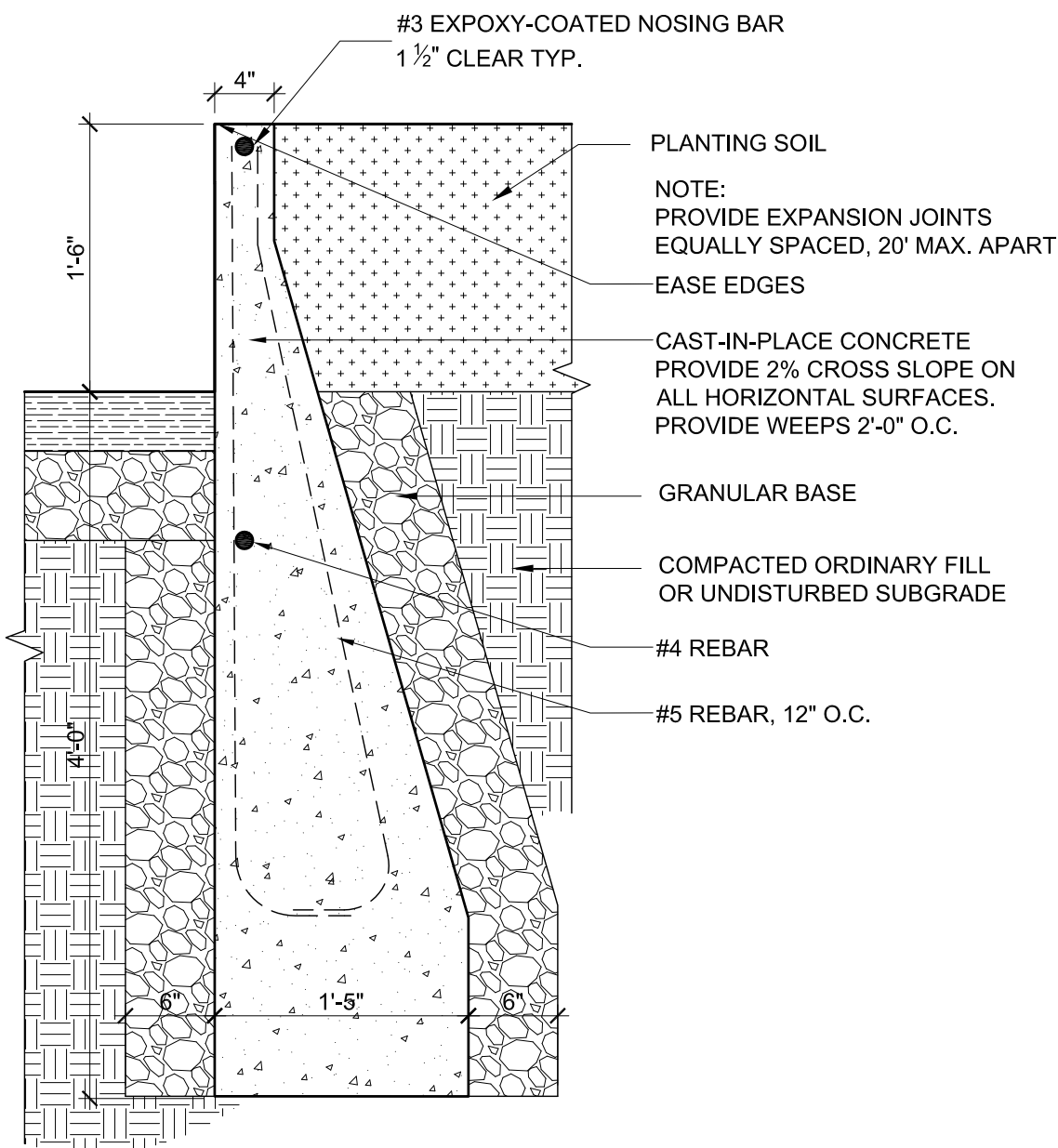
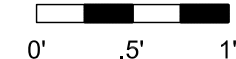
2 STONEDUST PAVING



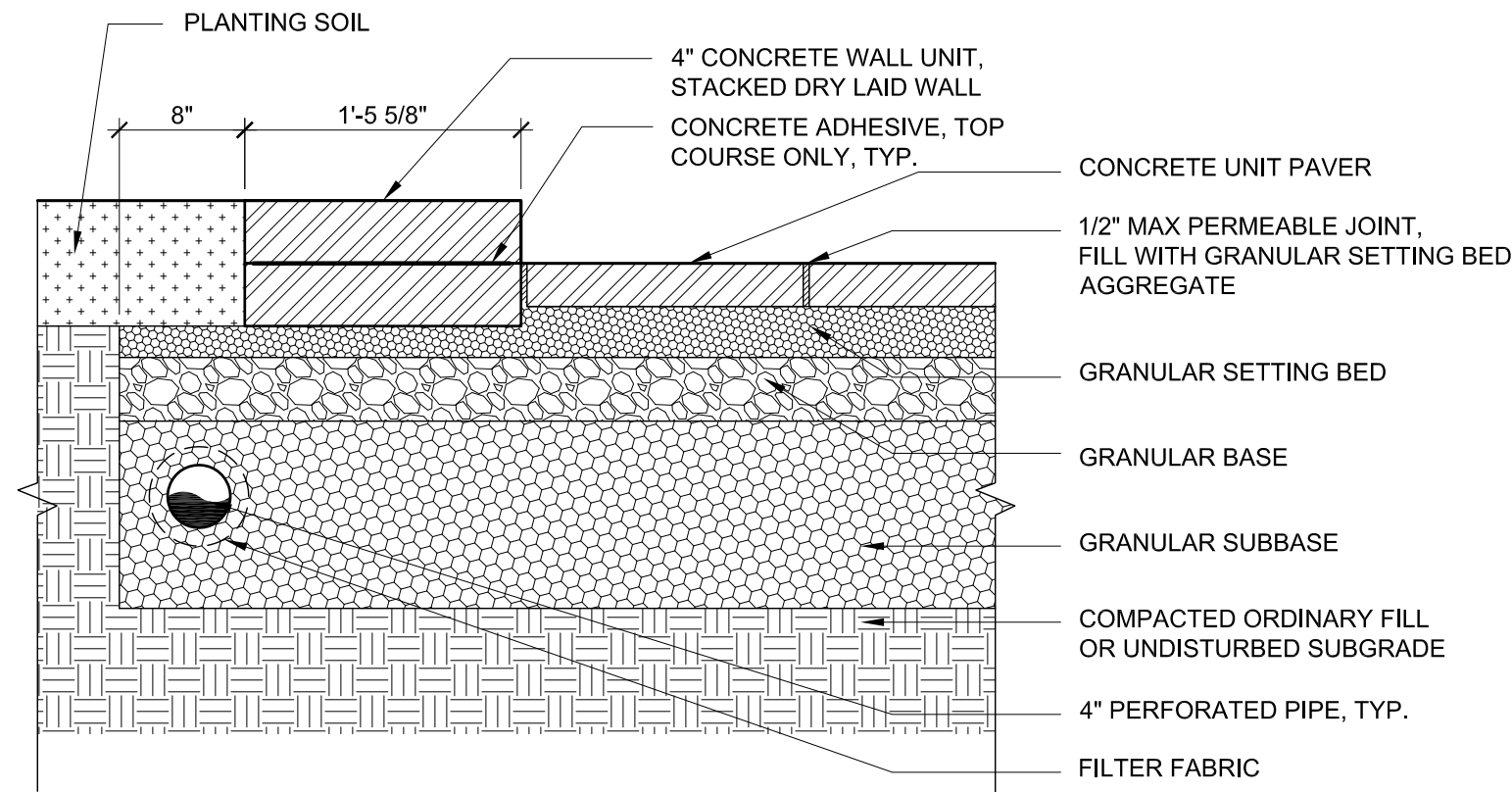
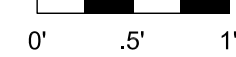
3 PERMEABLE UNIT PAVING



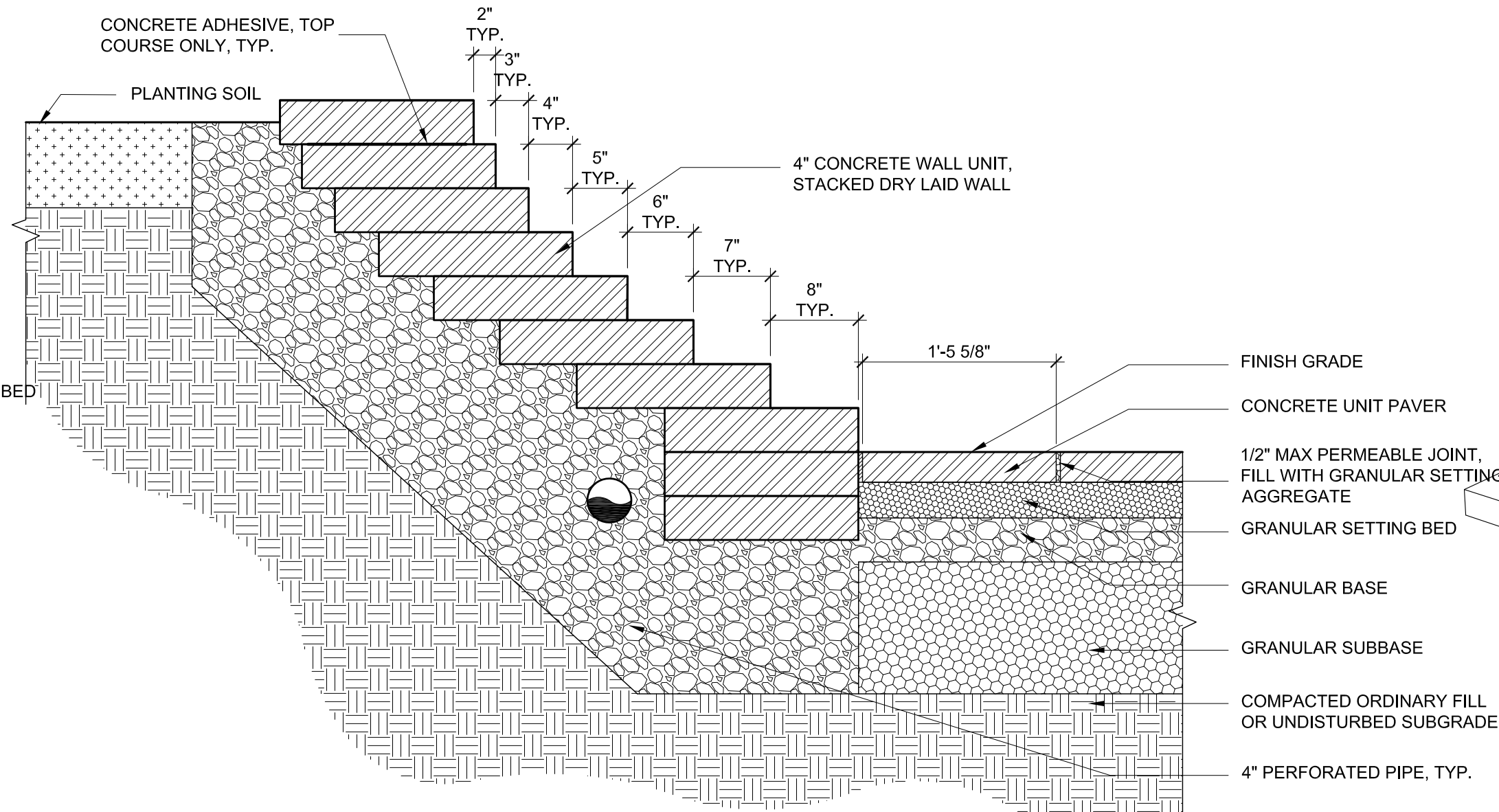
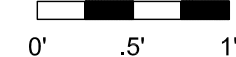
4 STACKED UNIT STEPS, SECTION



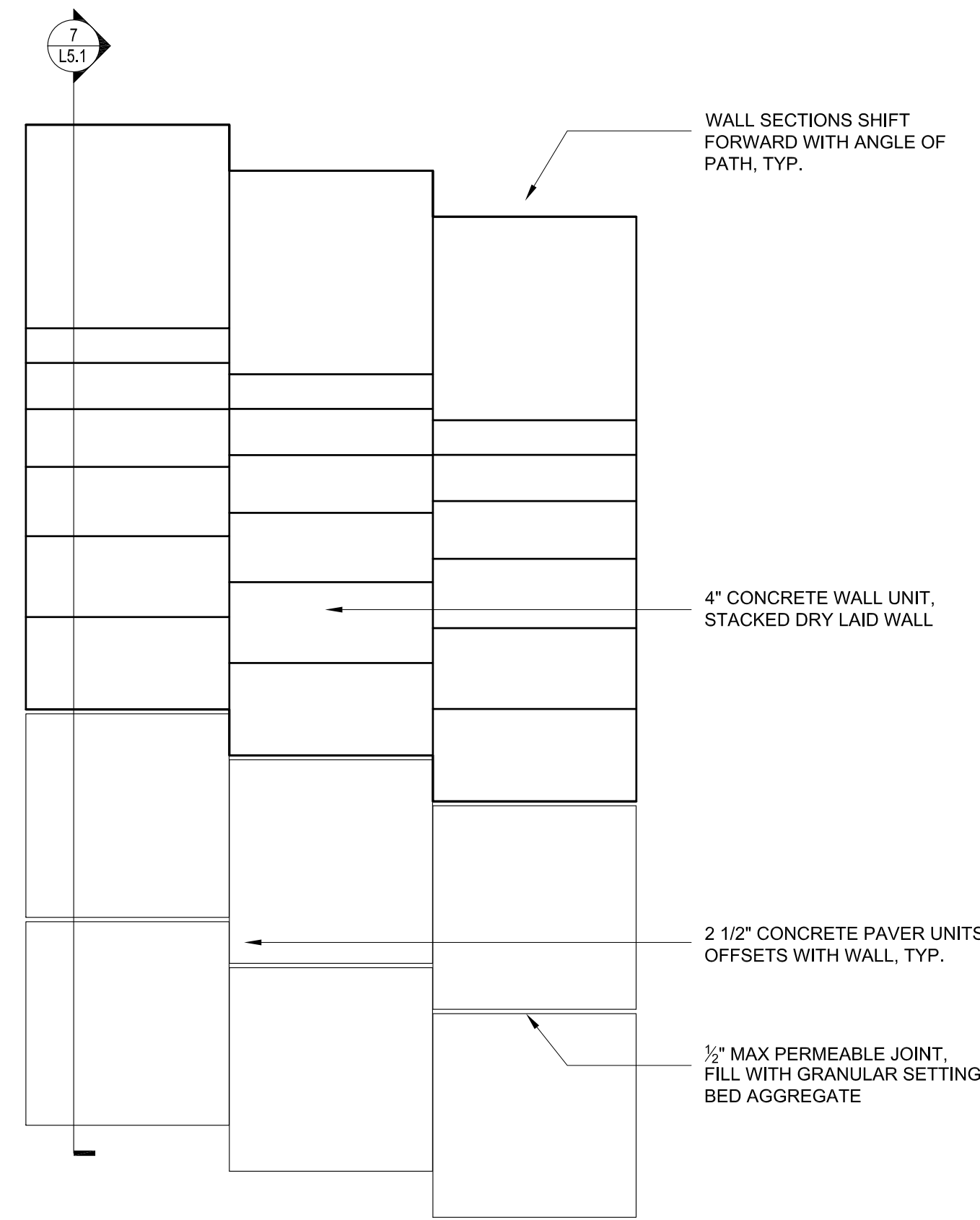
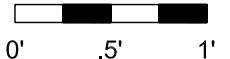
5 PLANTER WALL



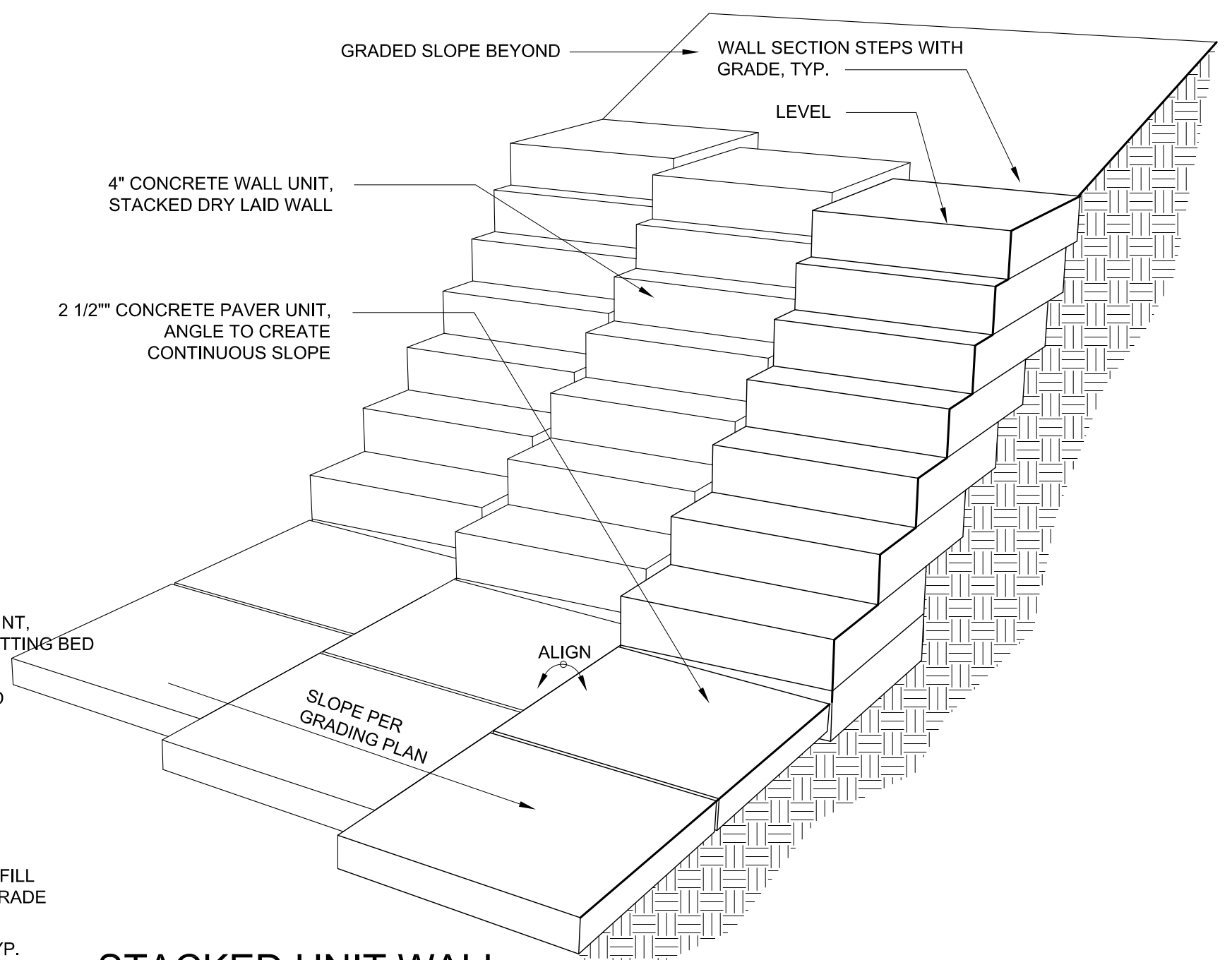
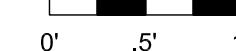
6 STACKED UNIT WALL, SECTION - MINIMUM HEIGHT



7 STACKED UNIT WALL, SECTION - MAXIMUM HEIGHT



8 STACKED UNIT WALL & PERMEABLE UNIT PAVING, PLAN

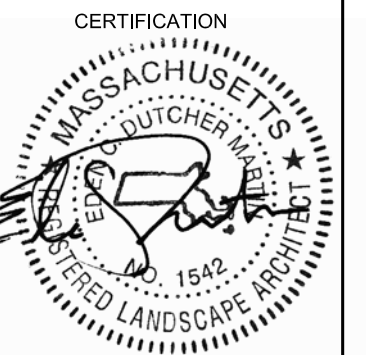


9 STACKED UNIT WALL AND PERMEABLE UNIT PAVING, PERSPECTIVE

NTS

© GroundView LLC

CONSULTANT



City of Somerville
Plans for the Construction of:
Symphony Park
Pearl Street
Somerville, MA



ISSUED	
PURPOSE	DATE

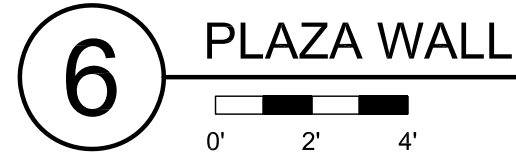
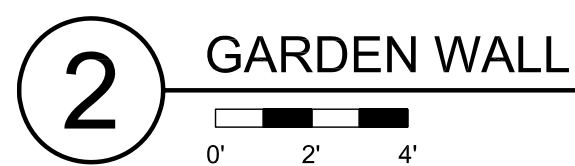
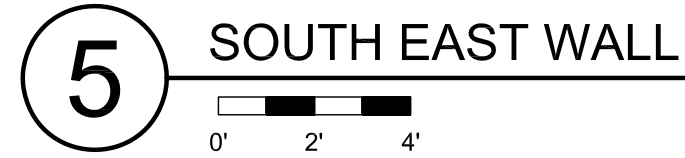
BID DOCUMENTS

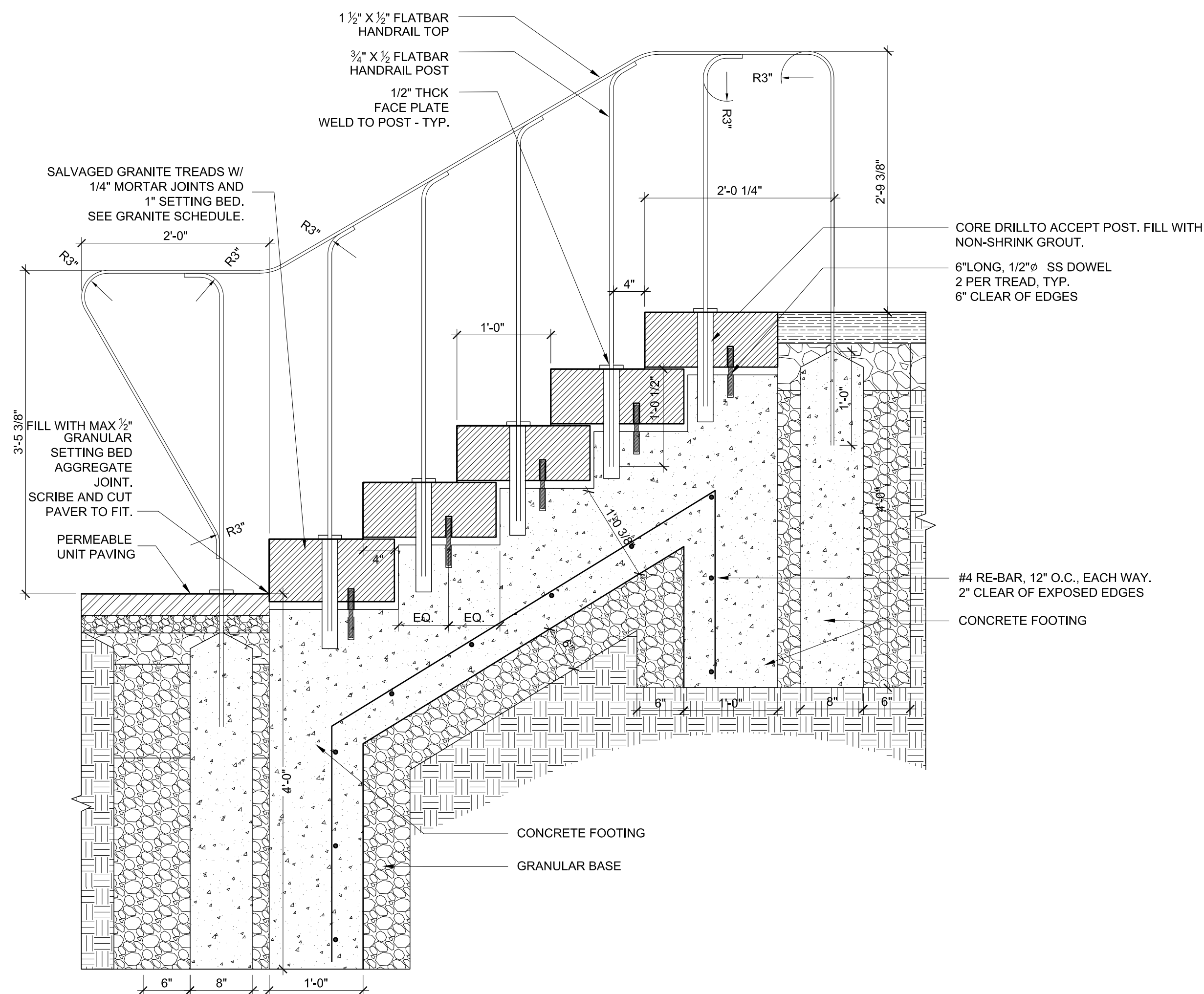
SCALE: AS NOTED	DATE: 05.12.14
DRAWN BY: ED	CHECKED BY: WM

SHEET

DETAILS
PLAN

L-5.01

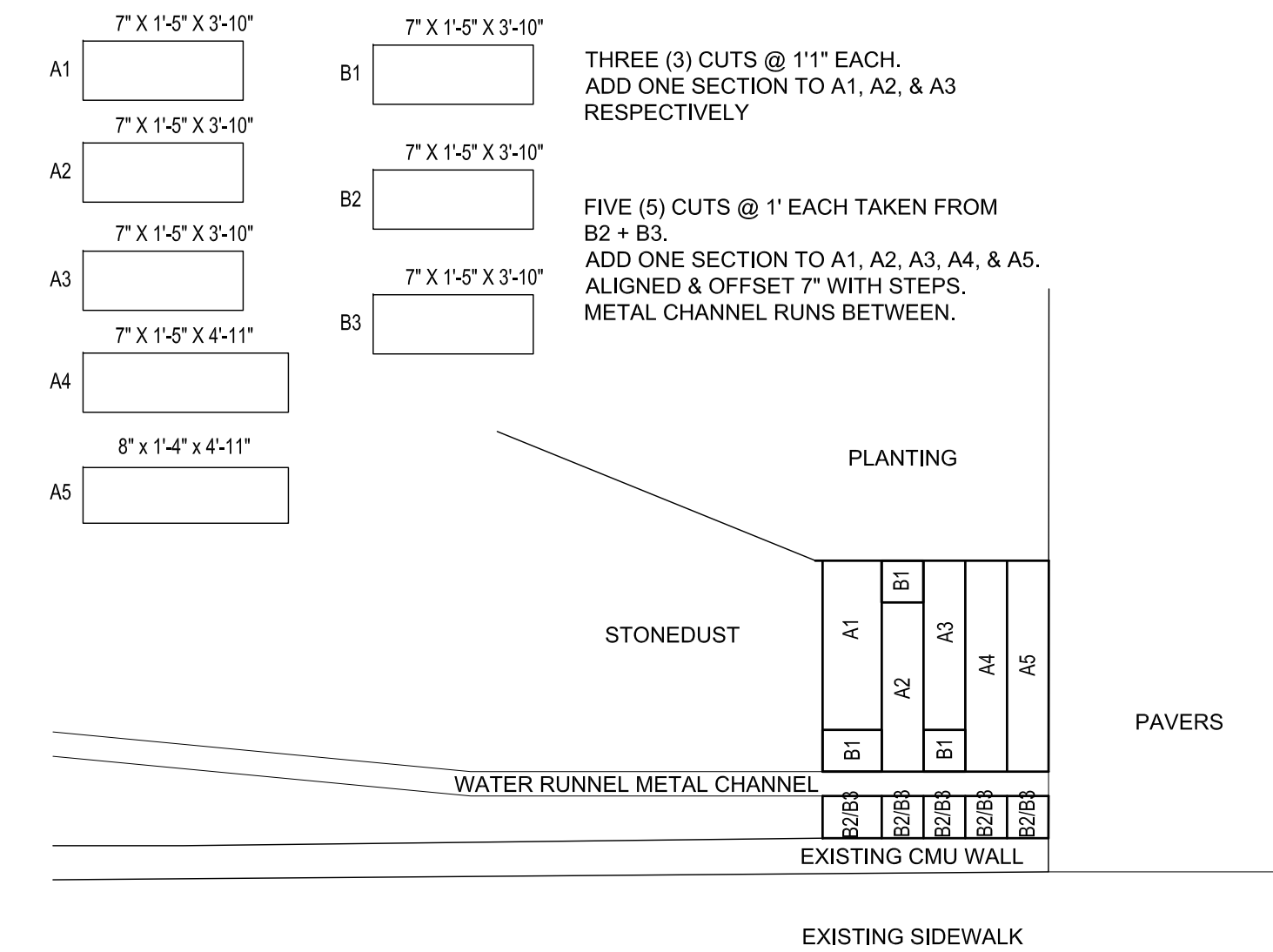
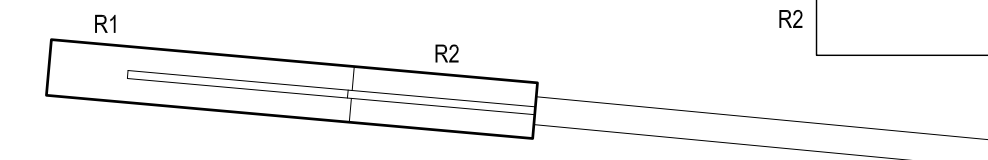




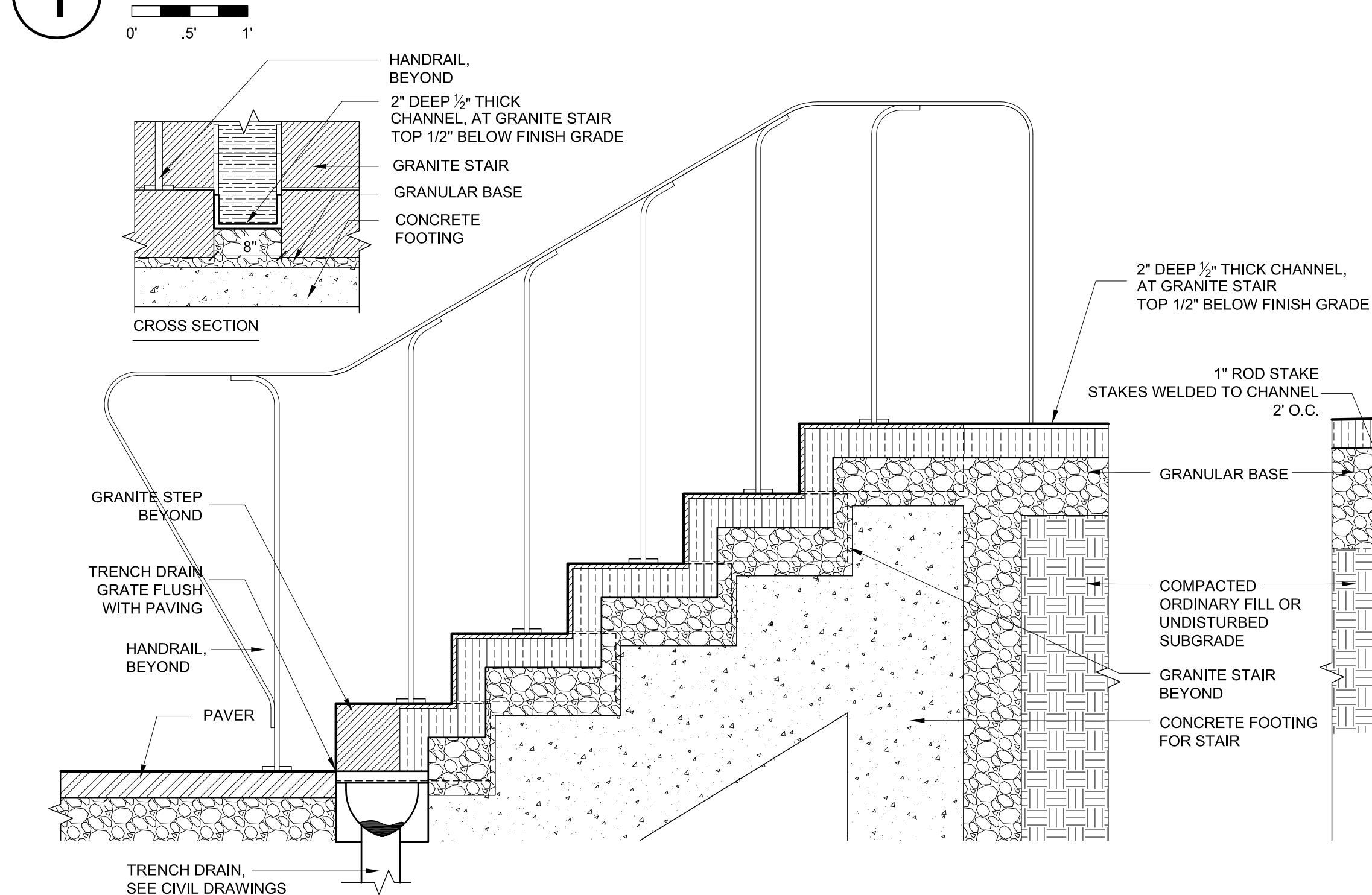
NOTE FOR ALL CUSTOM METAL FABRICATIONS

1. ALL COMPONENTS METAL UNLESS OTHERWISE SPECIFIED. SEE SPECIFICATIONS FOR METAL AND FINISH SPECIFICATIONS.
2. FABRICATOR TO PROVIDE SHOP DRAWINGS AND APPROVAL BY CERTIFIED STRUCTURAL ENGINEER OF ALL FABRICATED STRUCTURES AND FOOTINGS.
3. VERIFY ATTACHMENT REQUIREMENTS RELATIVE TO FINISH GRADE (ELEVATION AND LAYOUT).

NOTE:
VERIFY SIZE AND SHAPE OF SALVAGED
GRANITE AND NOTIFY LANDSCAPE
ARCHITECT OF ANY DISCREPANCIES
BEFORE DOING WORK.

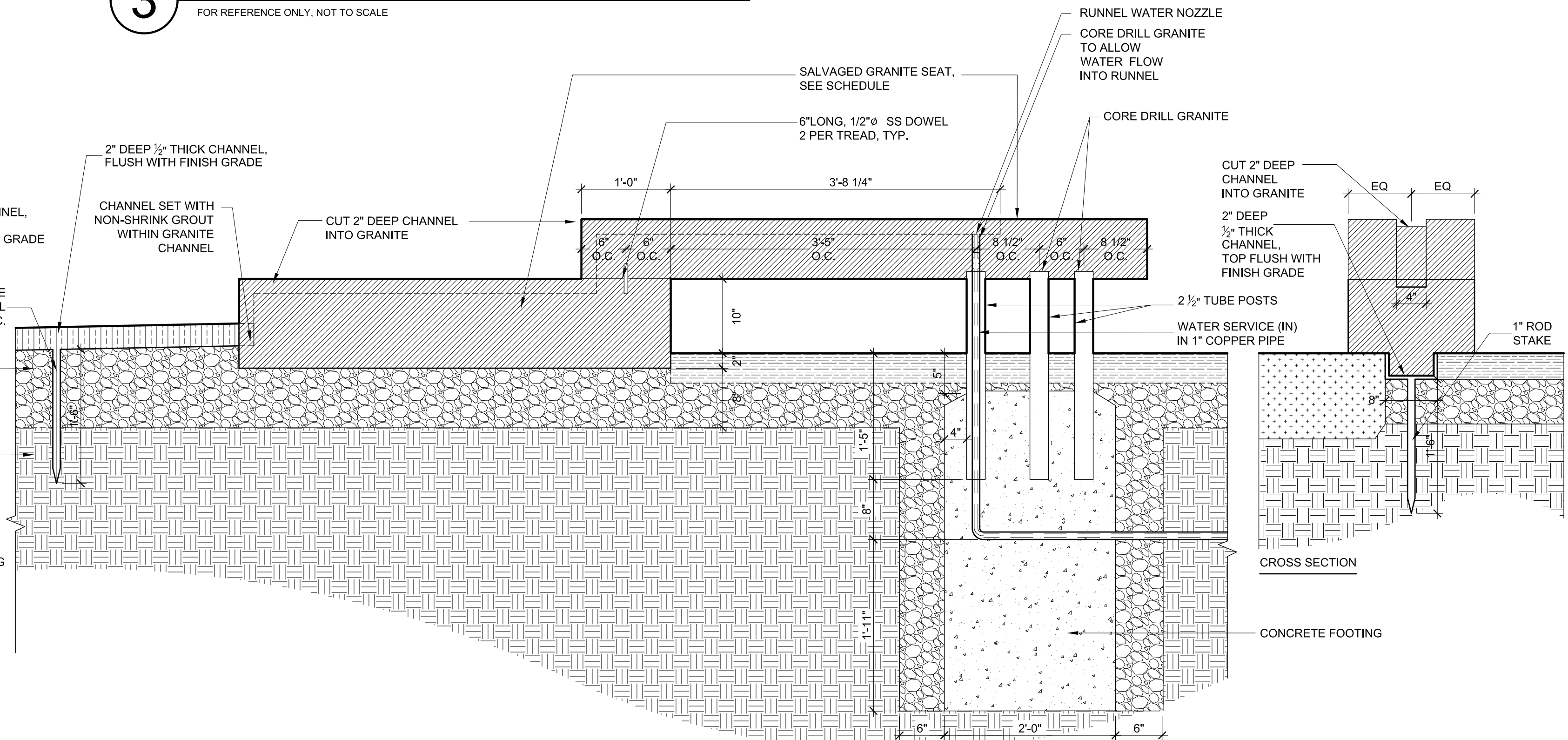


1 HANDRAIL AT SALVAGED GRANITE STAIR

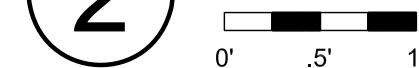


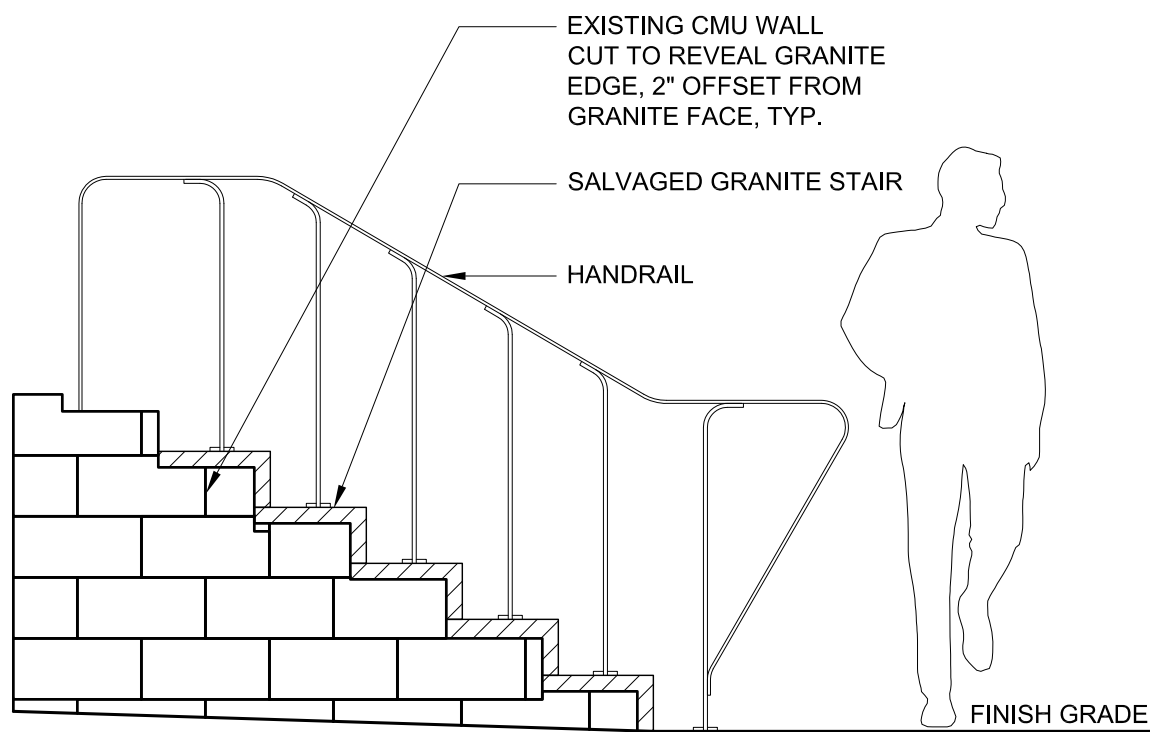
3 SALVAGED GRANITE SCHEDULE AND DIAGRAM

FOR REFERENCE ONLY, NOT TO SCALE

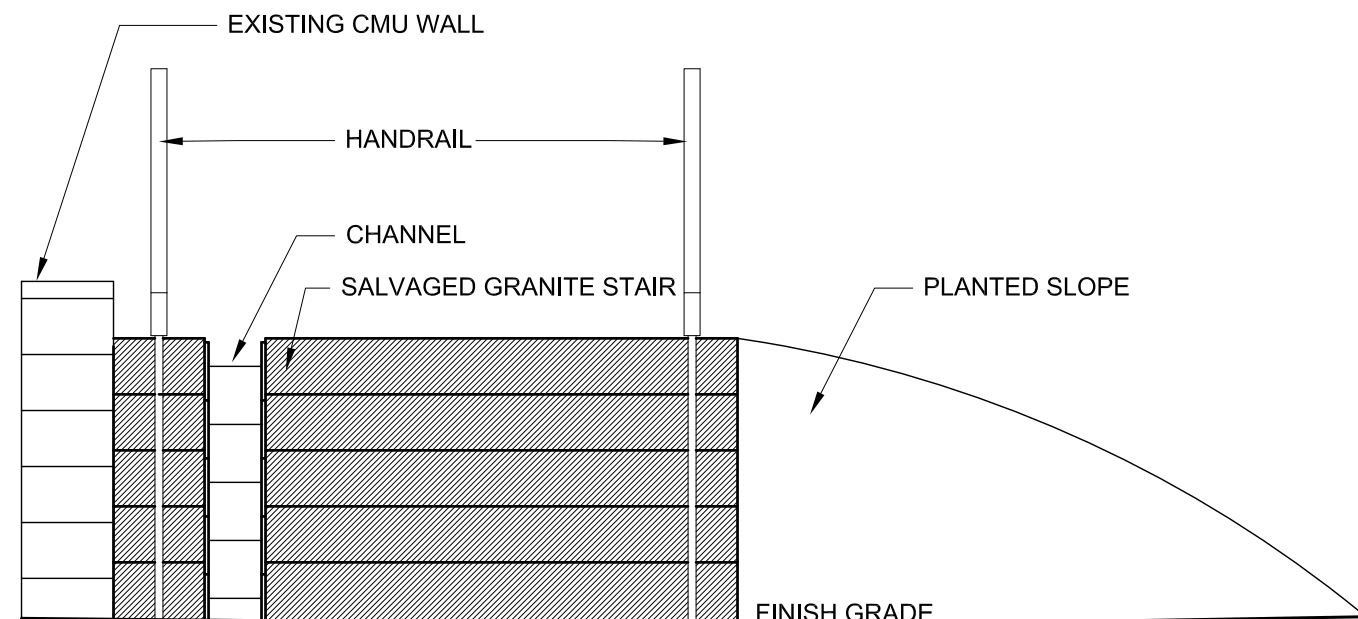


2 WATER RUNNEL AT SALVAGED GRANITE STAIR AND SEAT

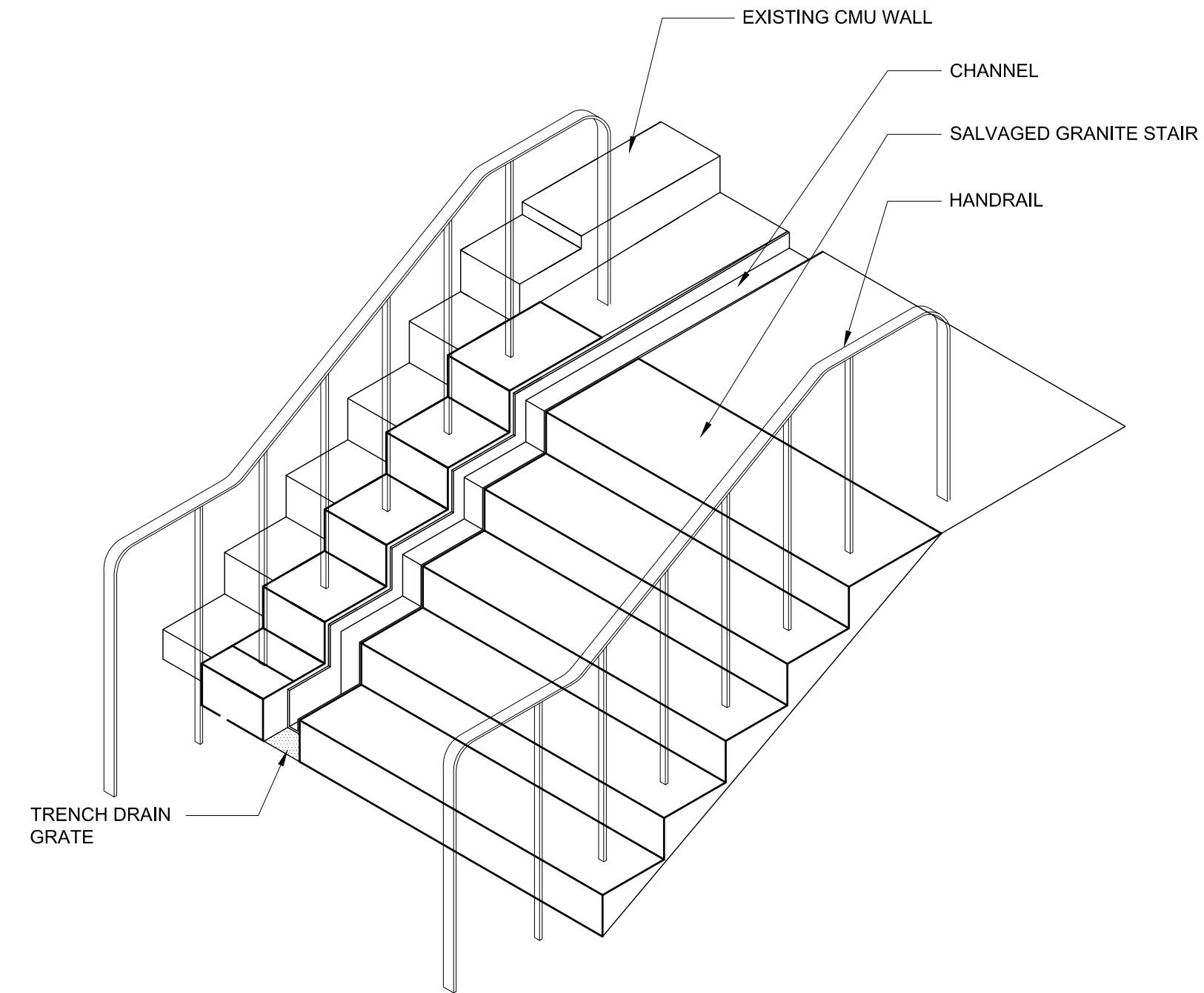




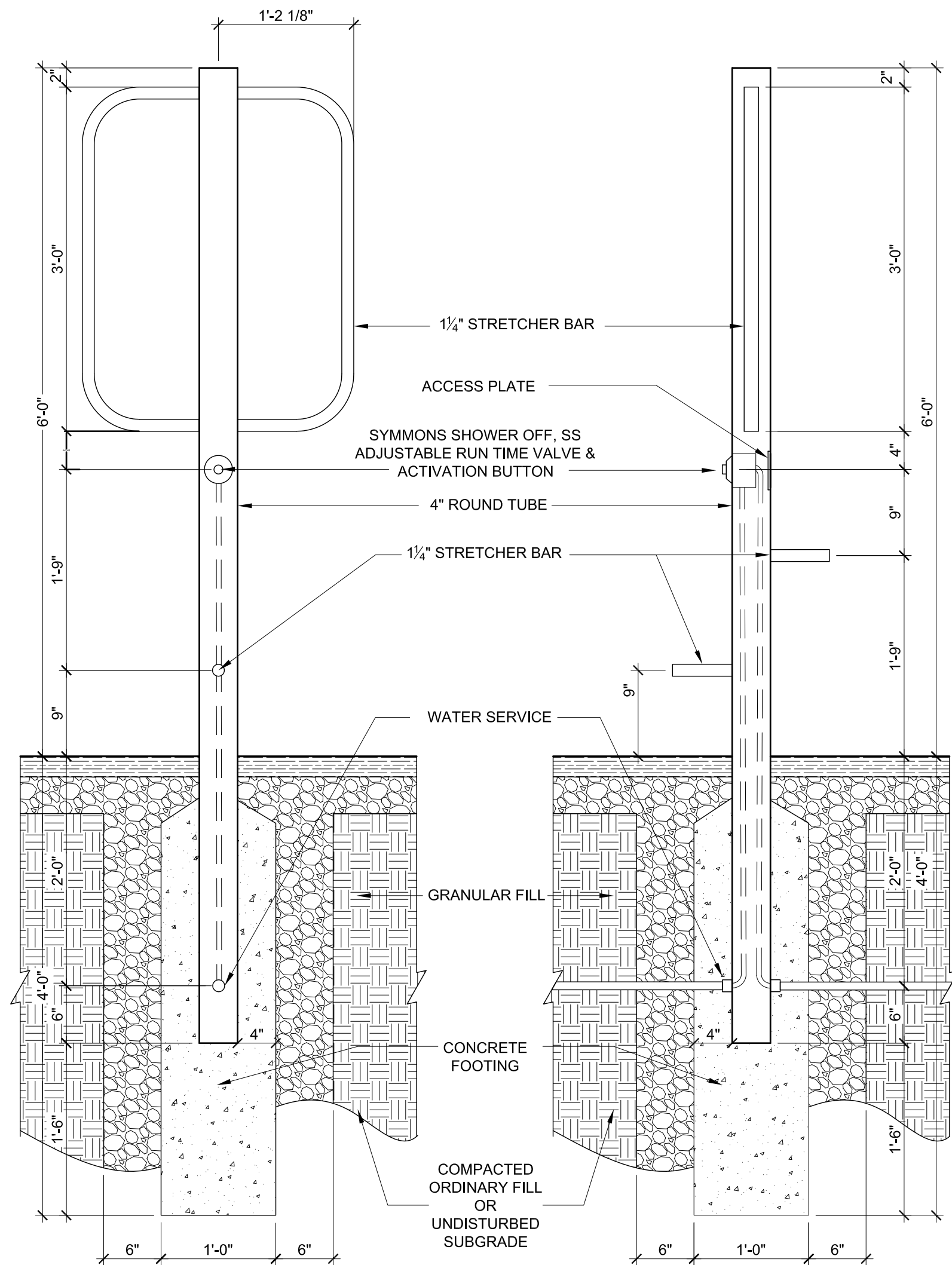
1 SALVAGED GRANITE STAIR, ELEVATION - SIDE



2 SALVAGED GRANITE STAIR, ELEVATION - FRONT



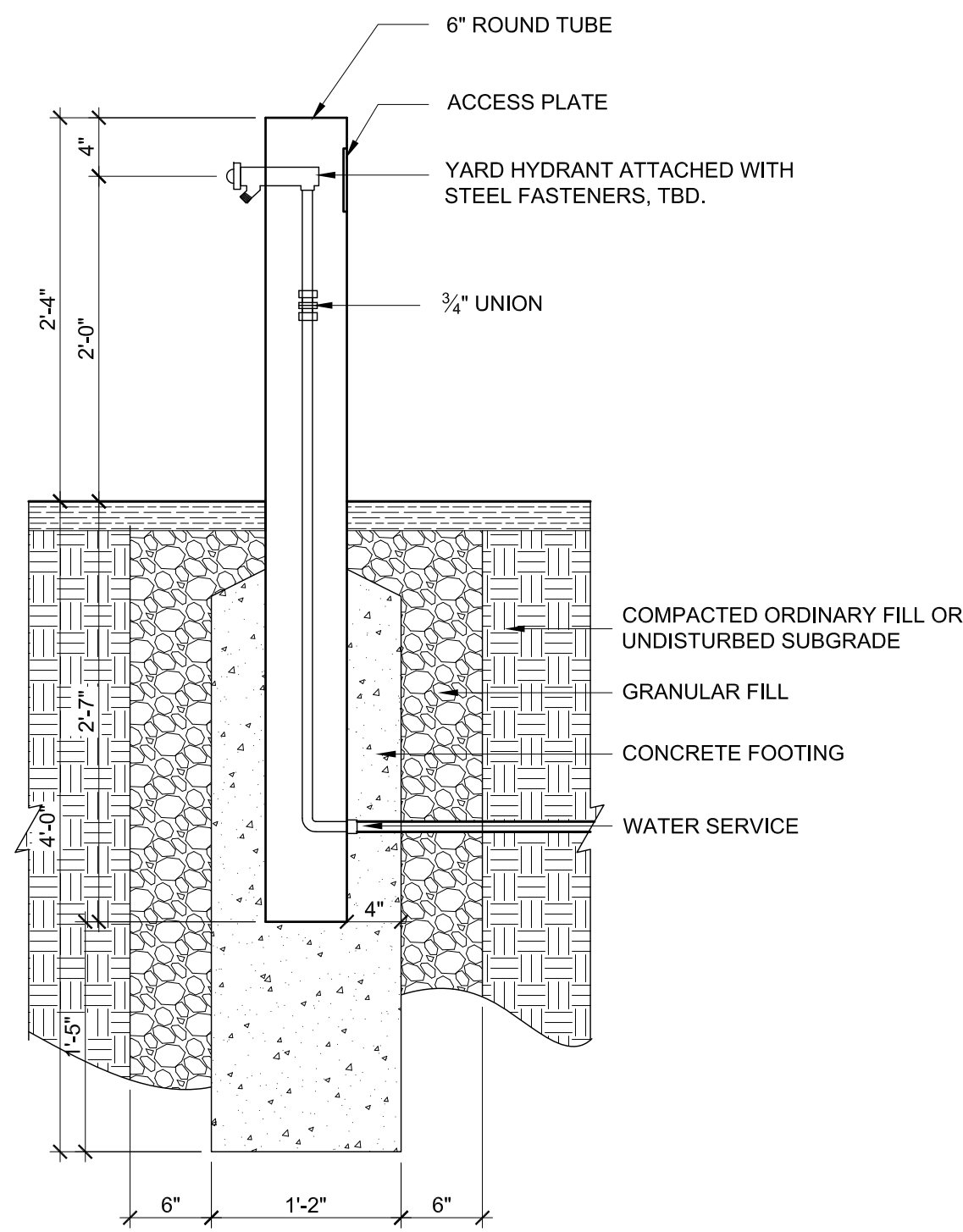
3 SALVAGED GRANITE, AXONOMETRIC



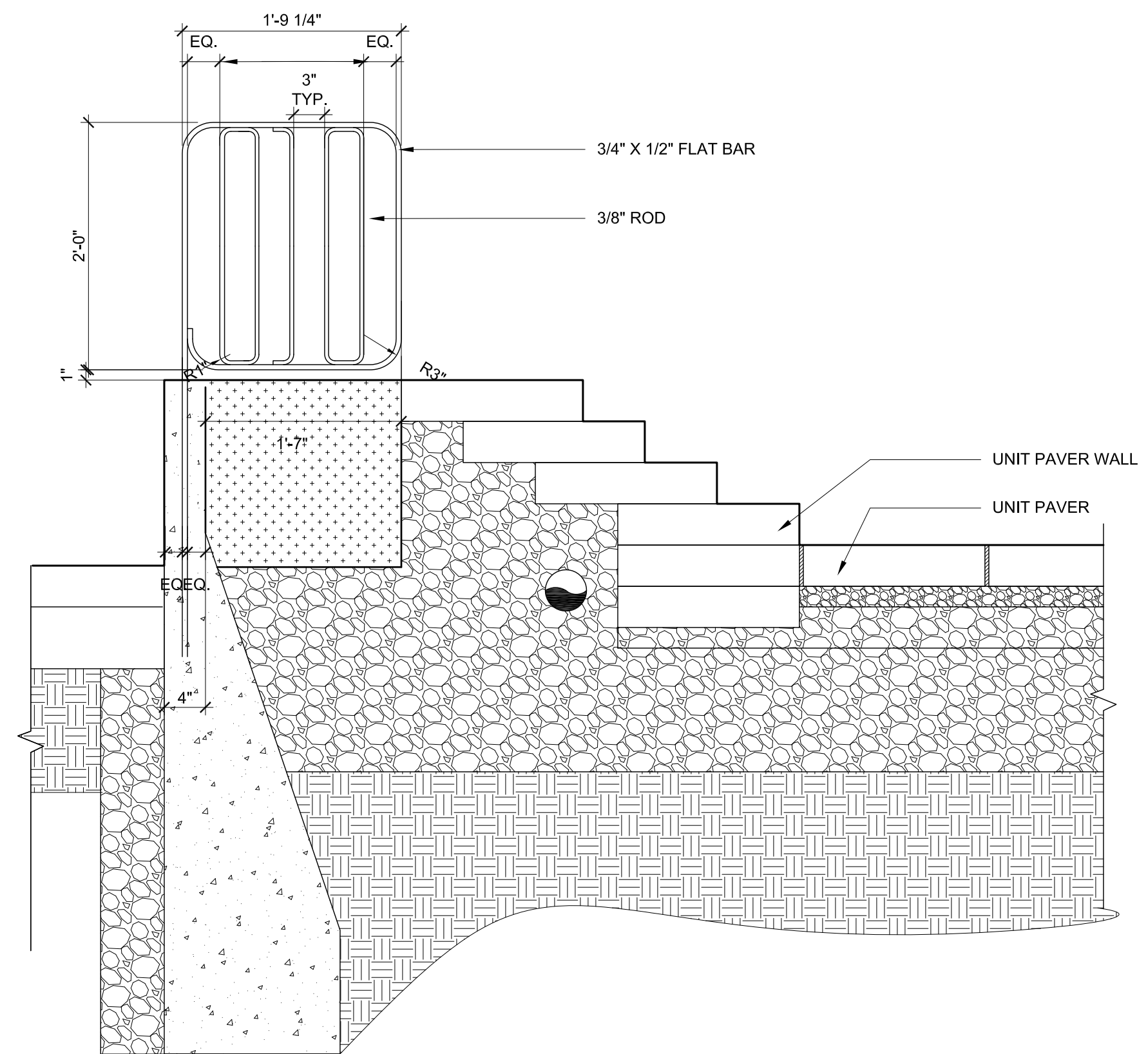
4 RUNNEL ACTIVATION BOLLARD AND STRETCHING POST

NOTE FOR ALL CUSTOM METAL FABRICATIONS

1. ALL COMPONENTS METAL UNLESS OTHERWISE SPECIFIED. SEE SPECIFICATIONS FOR METAL AND FINISH SPECIFICATIONS.
2. FABRICATOR TO PROVIDE SHOP DRAWINGS AND APPROVAL BY CERTIFIED STRUCTURAL ENGINEER OF ALL FABRICATED STRUCTURES AND FOOTINGS.
3. VERIFY ATTACHMENT REQUIREMENTS RELATIVE TO FINISH GRADE (ELEVATION AND LAYOUT).

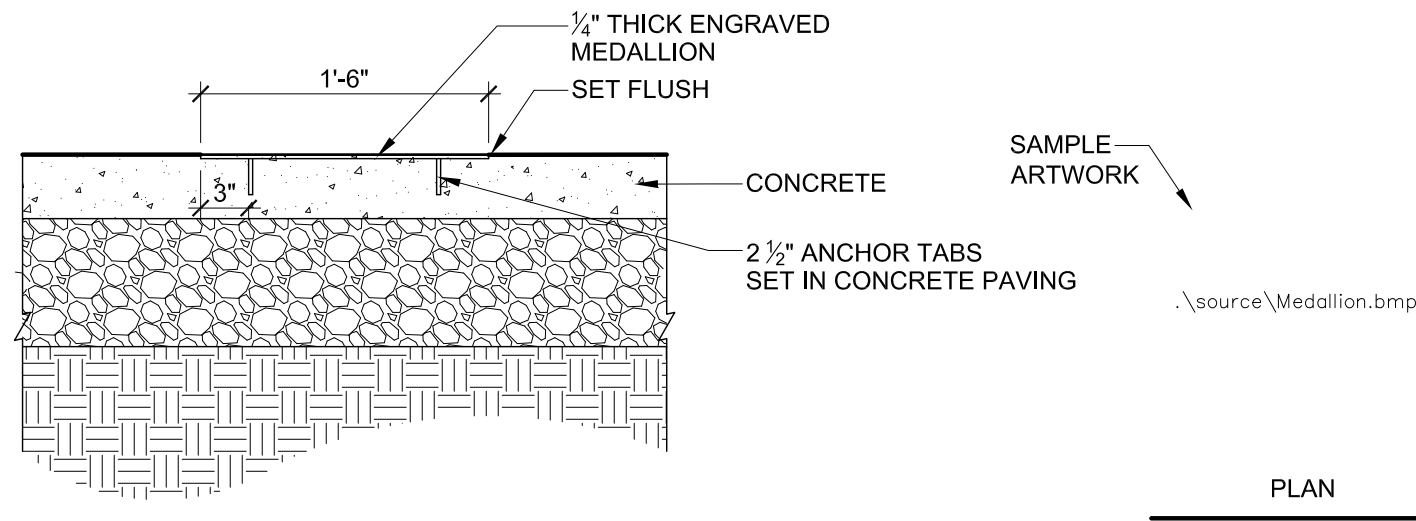


5 HOSEBIB

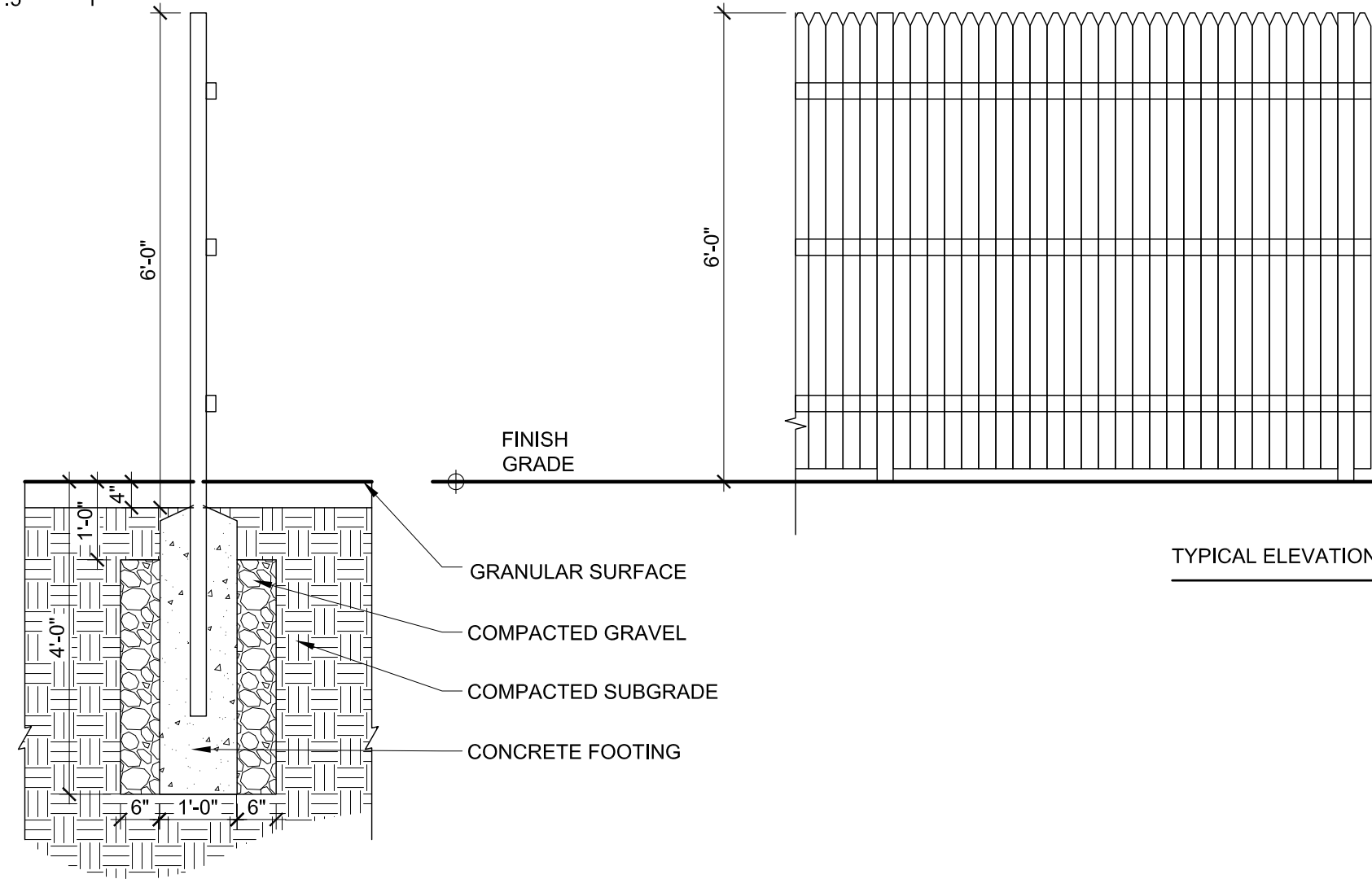
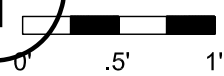


6 TRELLIS

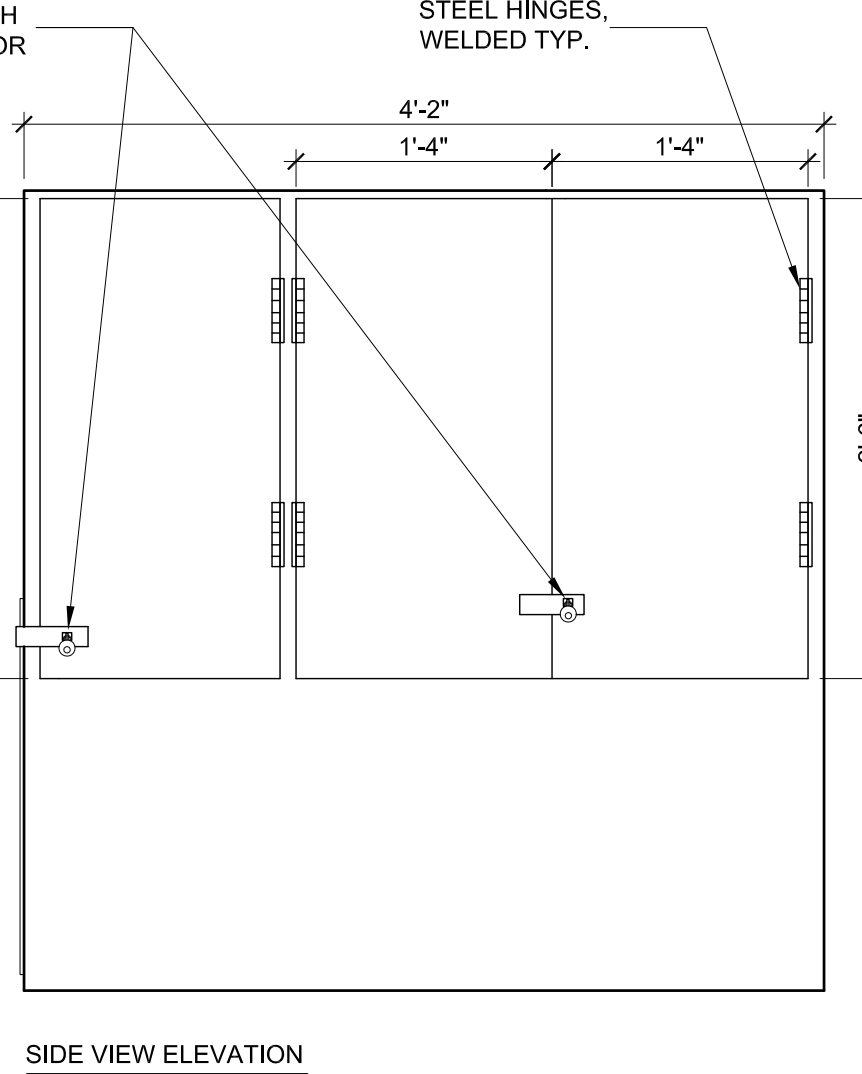
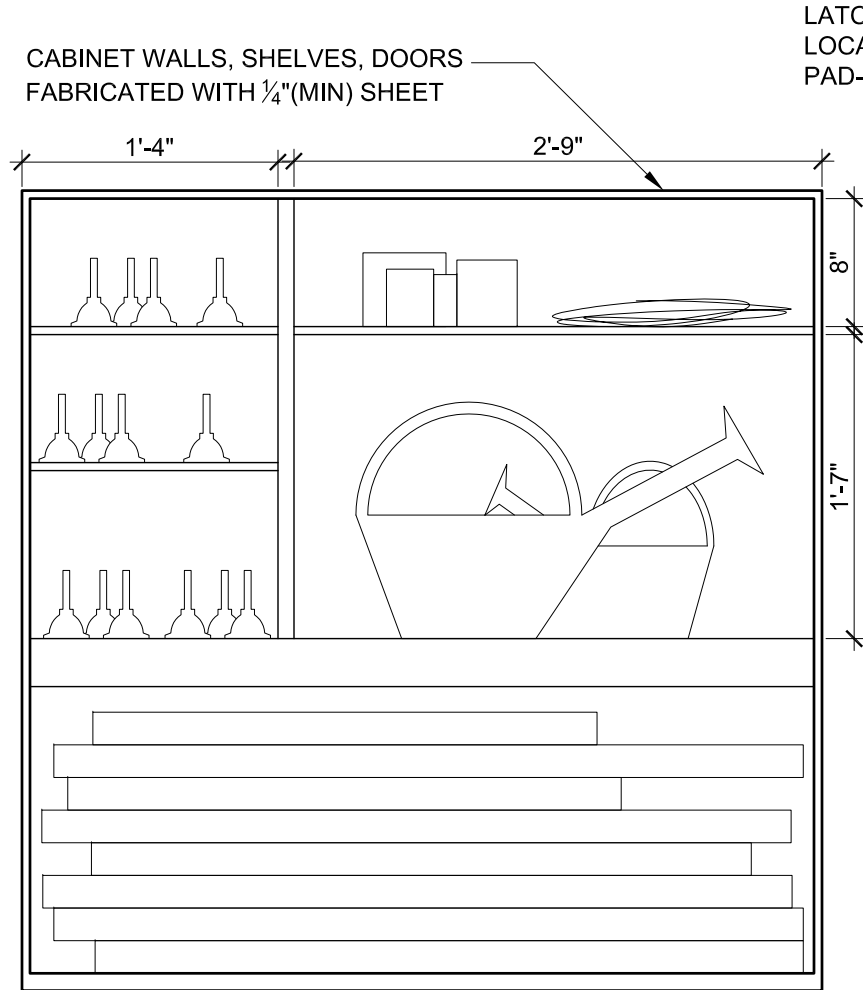
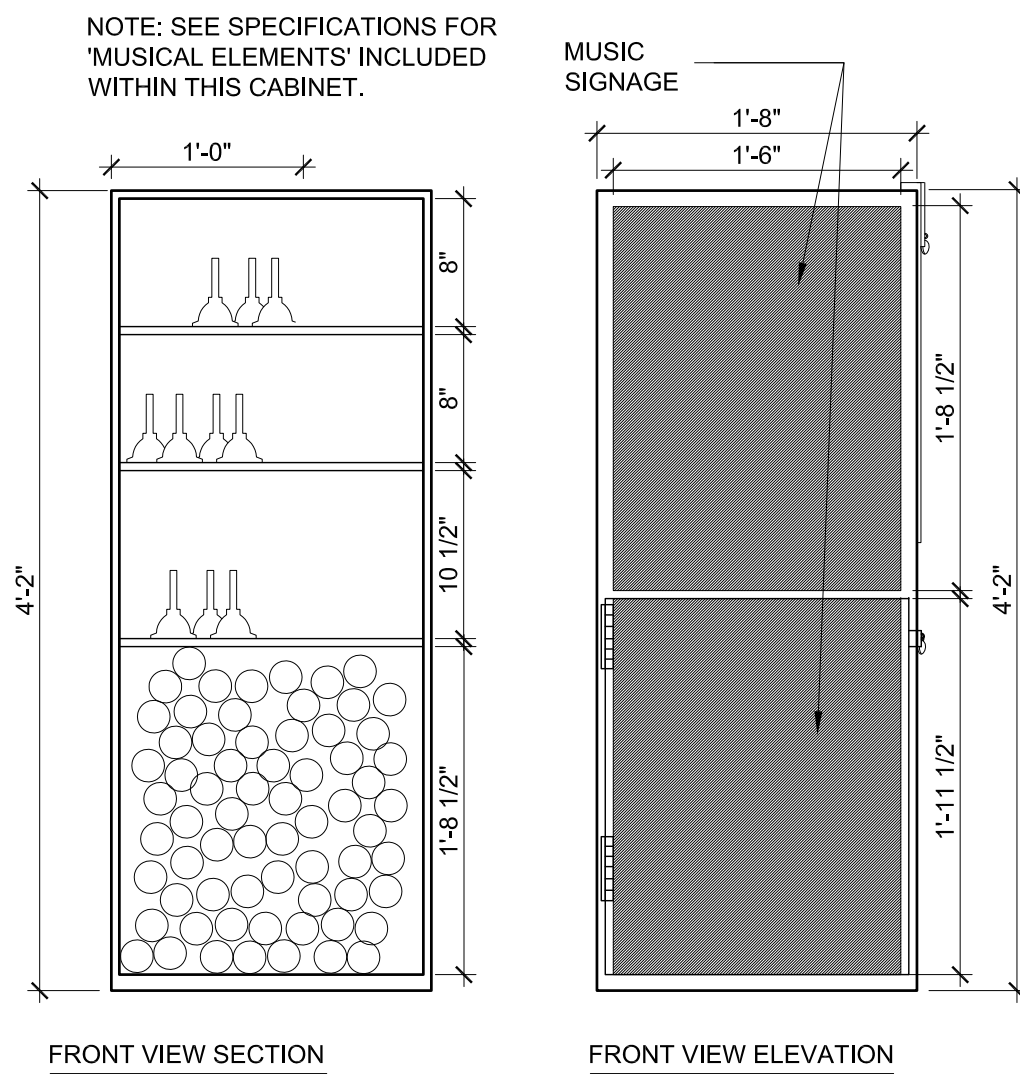
NOTE:
1. SEE SPECIFICATIONS FOR MEDALLION MATERIAL AND ENGRAVING INFORMATION.
2. ARTWORK TO BE PROVIDED BY LANDSCAPE ARCHITECT.
3. SHOP DRAWINGS REQUIRED.
4. ALL COMPONENTS METAL UNLESS NOTED OTHERWISE



1 COMMEMORATIVE MEDALLION



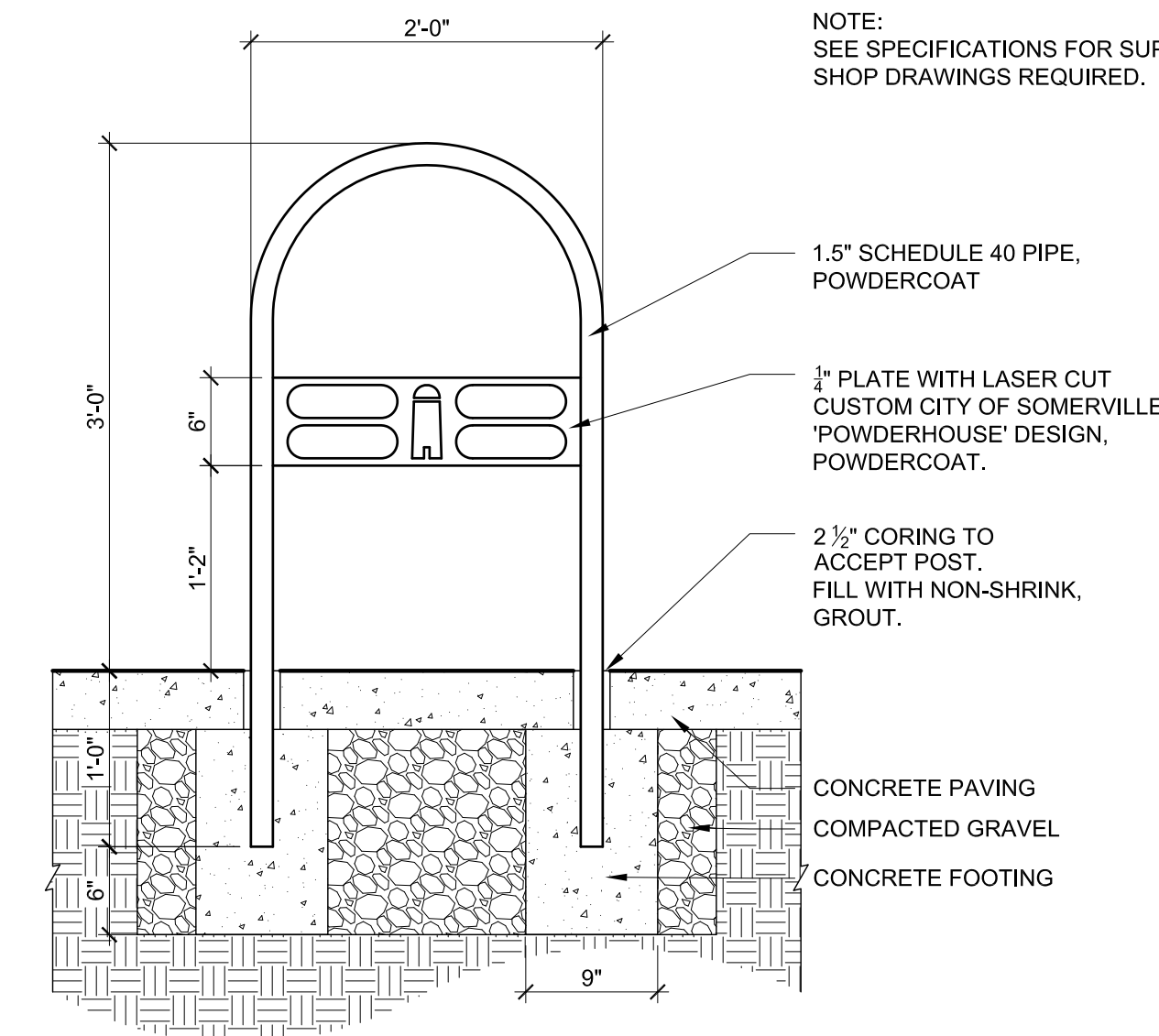
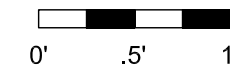
2 WOOD FENCE



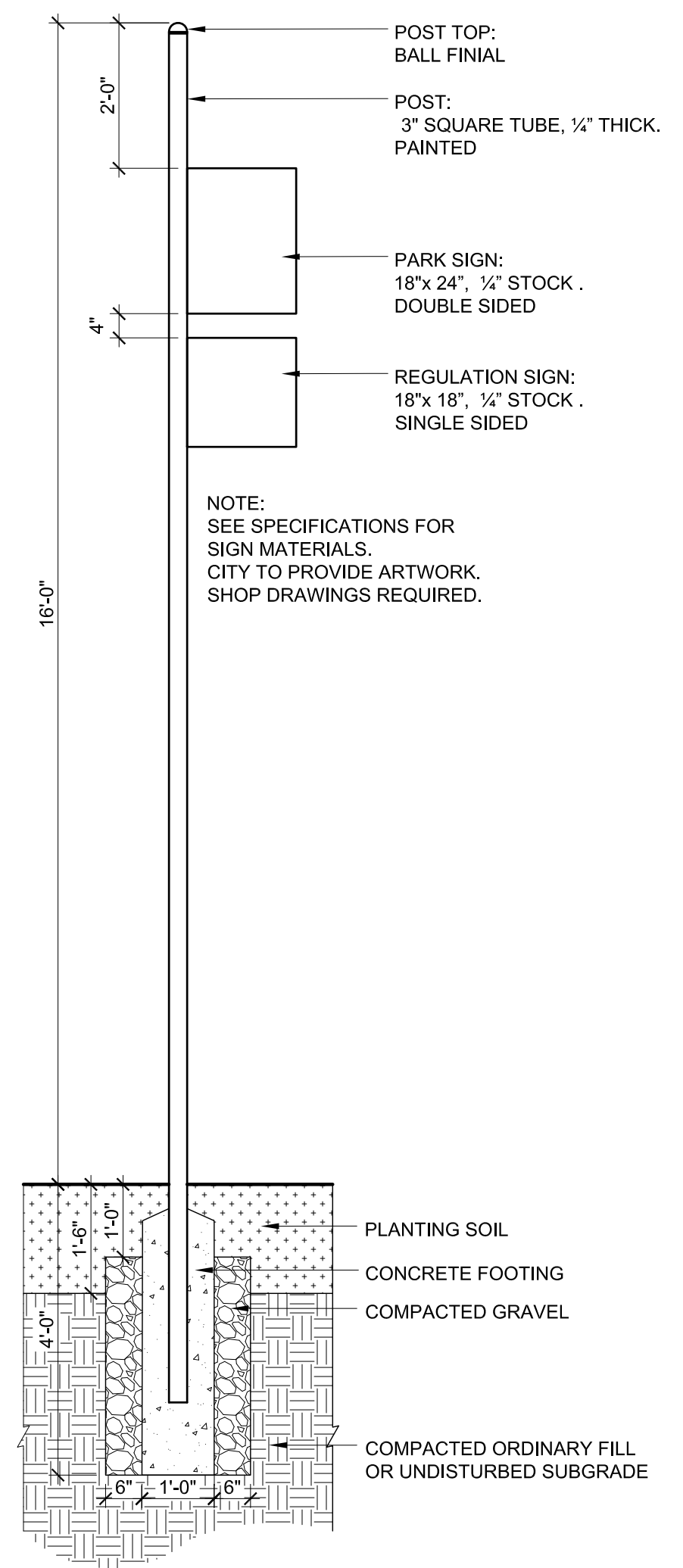
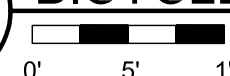
NOTE FOR ALL CUSTOM METAL FABRICATIONS

1. ALL COMPONENTS METAL UNLESS OTHERWISE SPECIFIED. SEE SPECIFICATIONS FOR METAL AND FINISH SPECIFICATIONS.
2. FABRICATOR TO PROVIDE SHOP DRAWINGS AND APPROVAL BY CERTIFIED STRUCTURAL ENGINEER OF ALL FABRICATED STRUCTURES AND FOOTINGS.
3. VERIFY ATTACHMENT REQUIREMENTS RELATIVE TO FINISH GRADE (ELEVATION AND LAYOUT).

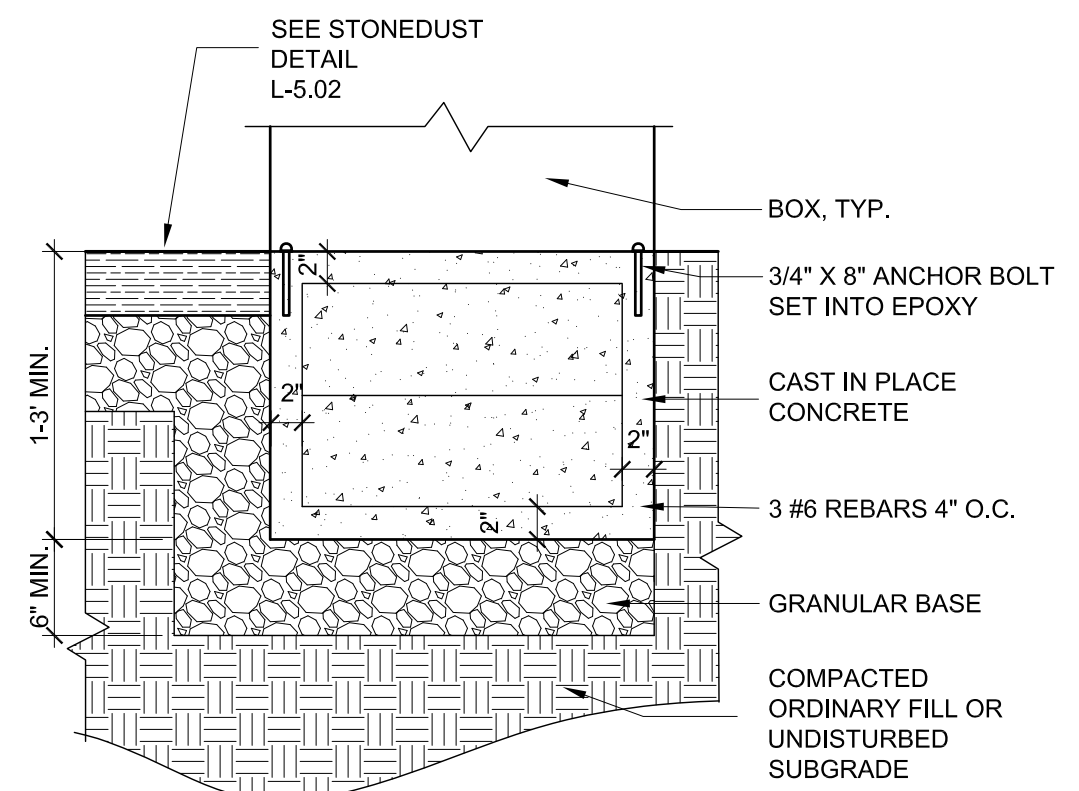
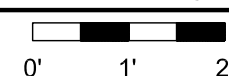
5 ALTERNATE #2: STORAGE CABINET



3 BICYCLE RACK



4 PARK SIGN



6 CONCRETE PAD: TRASH & RECYCLING UNIT AND STORAGE CABINET

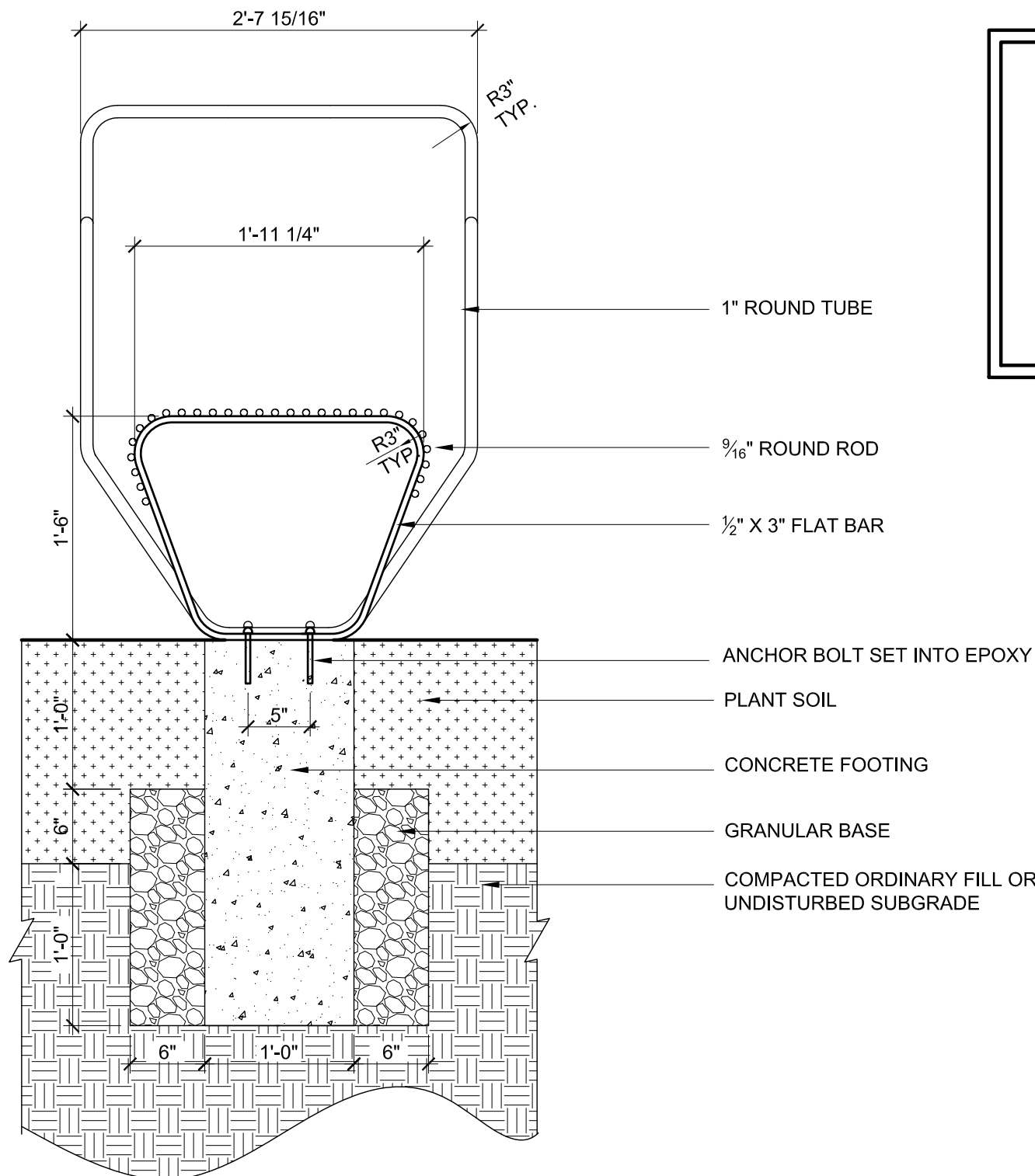


City of Somerville
Plans for the Construction of:
Symphony Park
Pearl Street
Somerville, MA



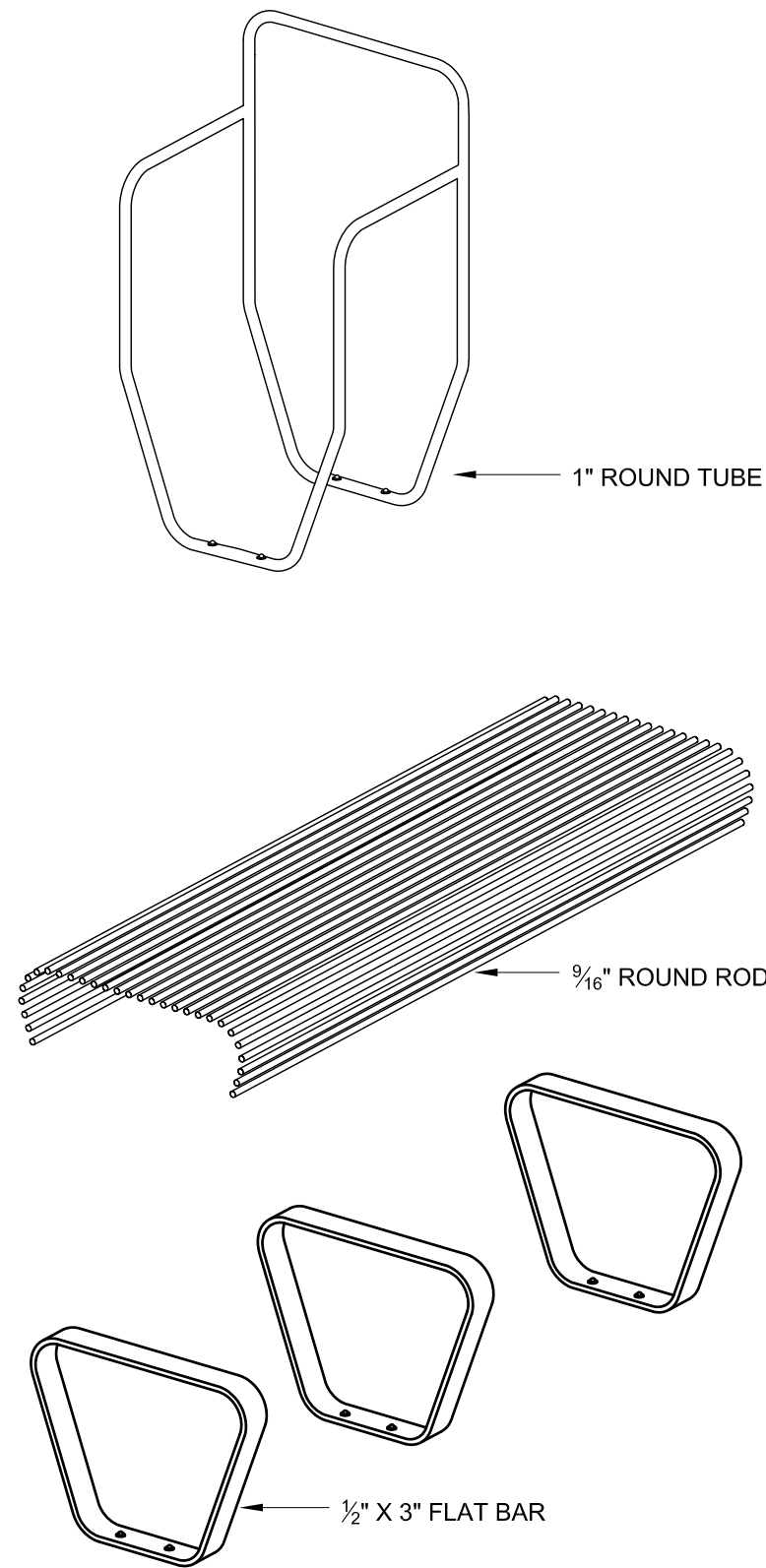
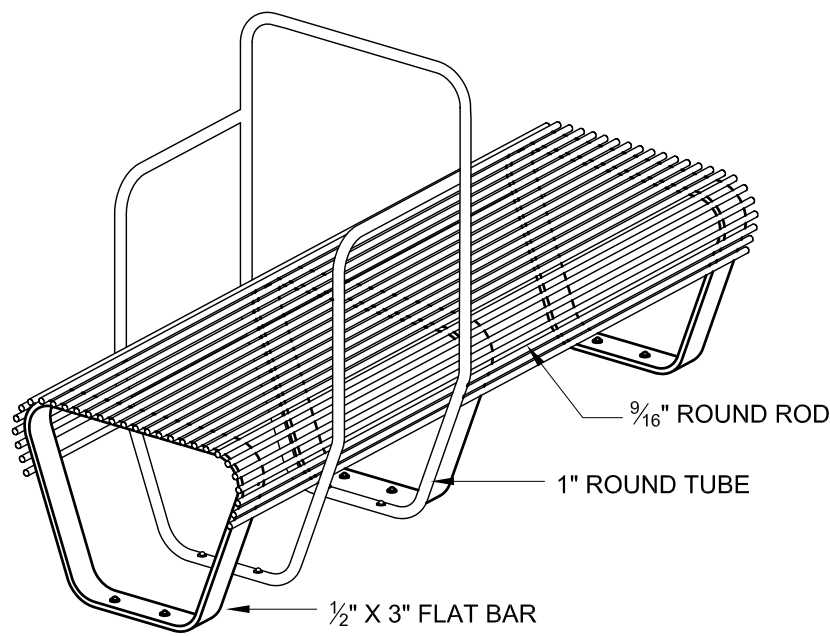
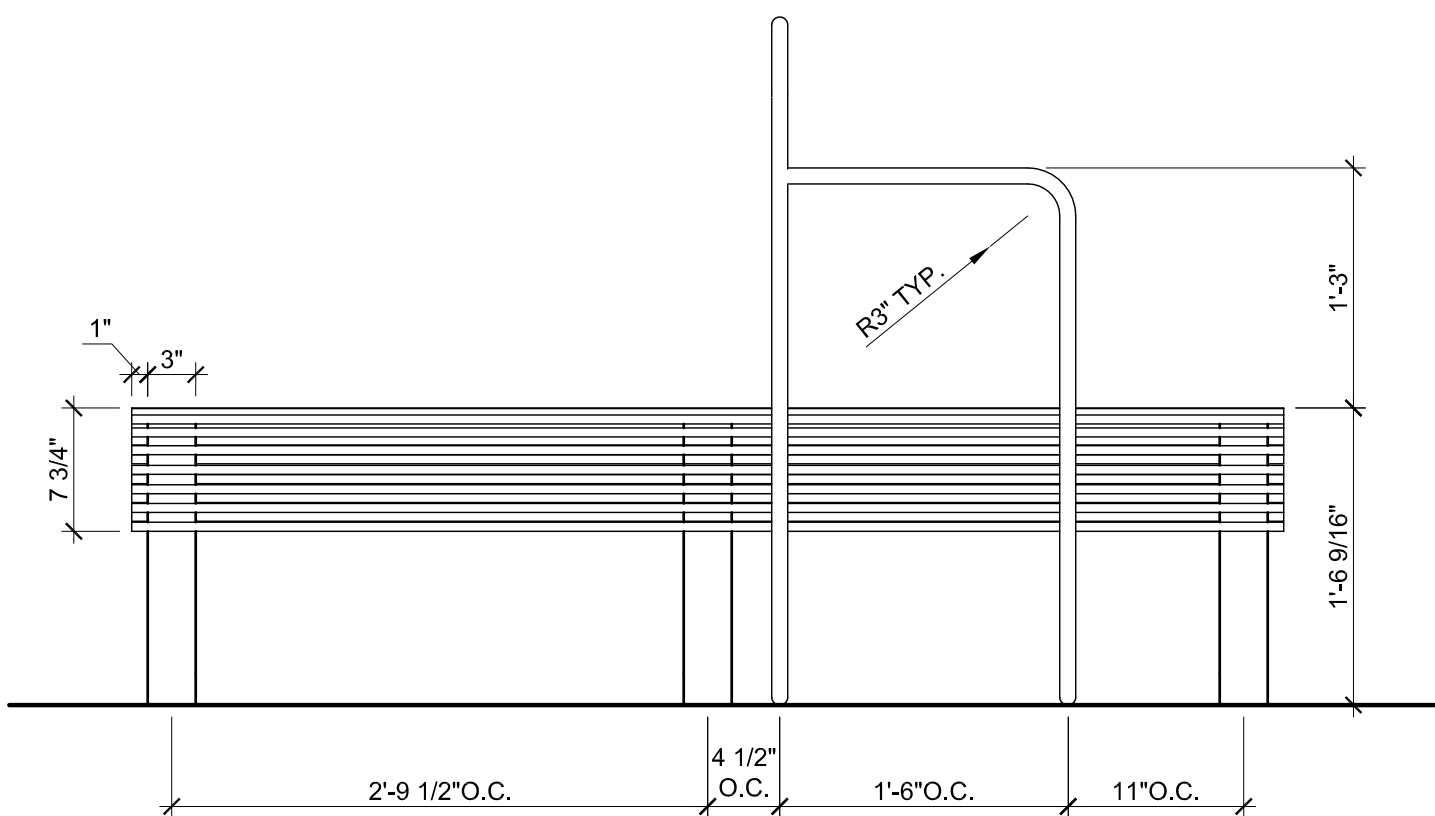
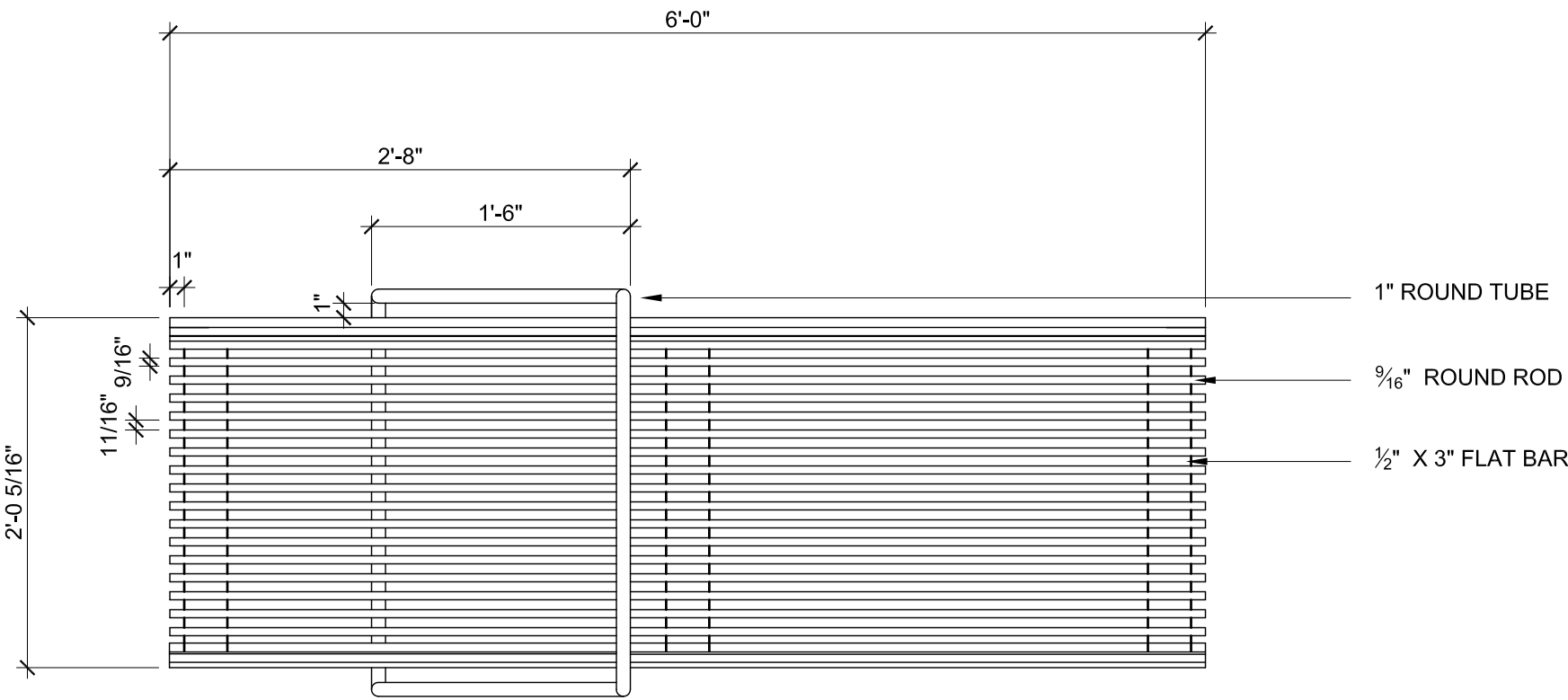
PURPOSE	DATE

SCALE: AS NOTED	DATE: 05.12.14
DRAWN BY: ED	CHECKED BY: WM



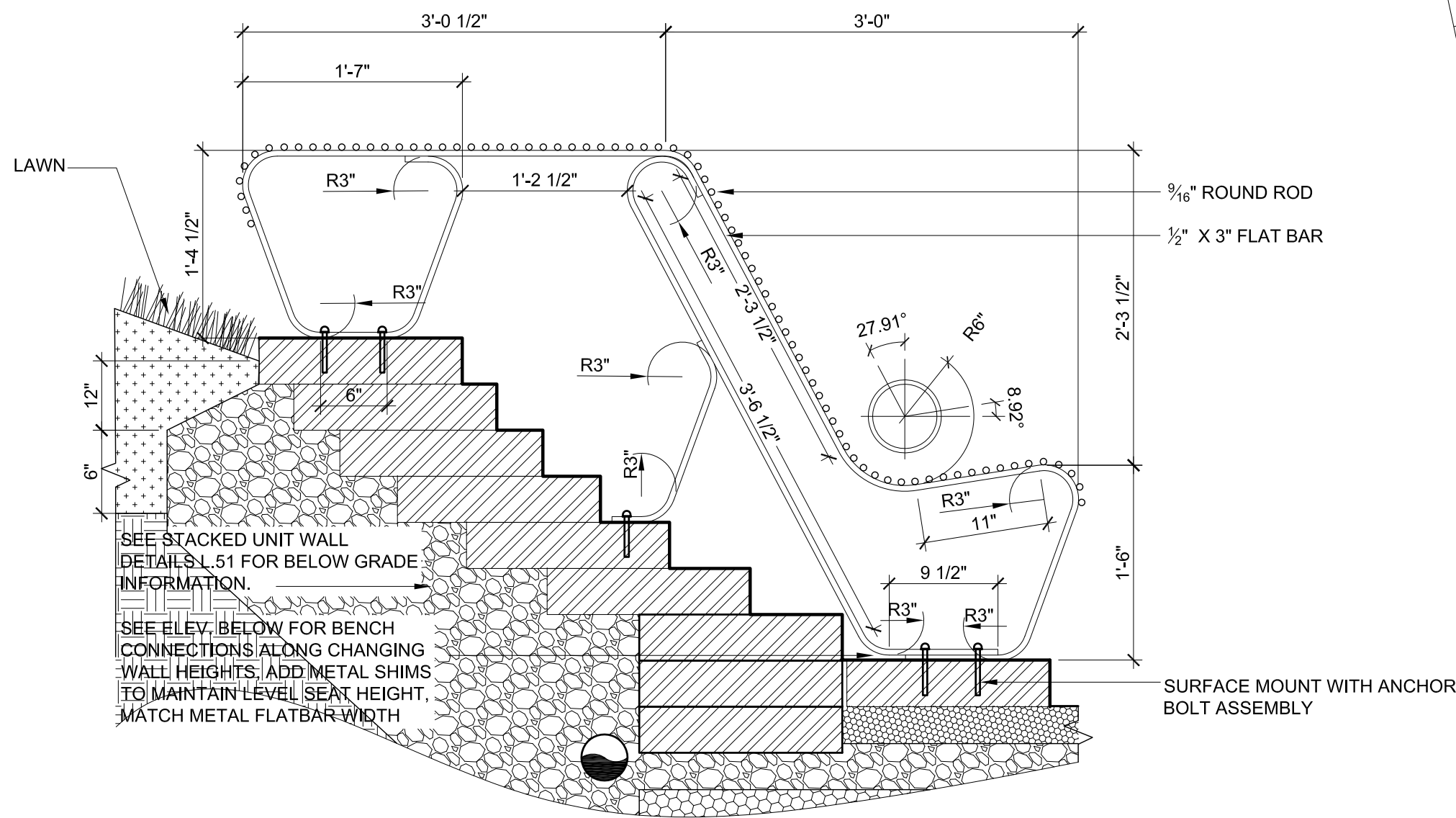
NOTE FOR ALL CUSTOM METAL FABRICATIONS

1. ALL COMPONENTS METAL UNLESS OTHERWISE SPECIFIED. SEE SPECIFICATIONS FOR METAL AND FINISH SPECIFICATIONS.
2. FABRICATOR TO PROVIDE SHOP DRAWINGS AND APPROVAL BY CERTIFIED STRUCTURAL ENGINEER OF ALL FABRICATED STRUCTURES AND FOOTINGS.
3. VERIFY ATTACHMENT REQUIREMENTS RELATIVE TO FINISH GRADE (ELEVATION AND LAYOUT).

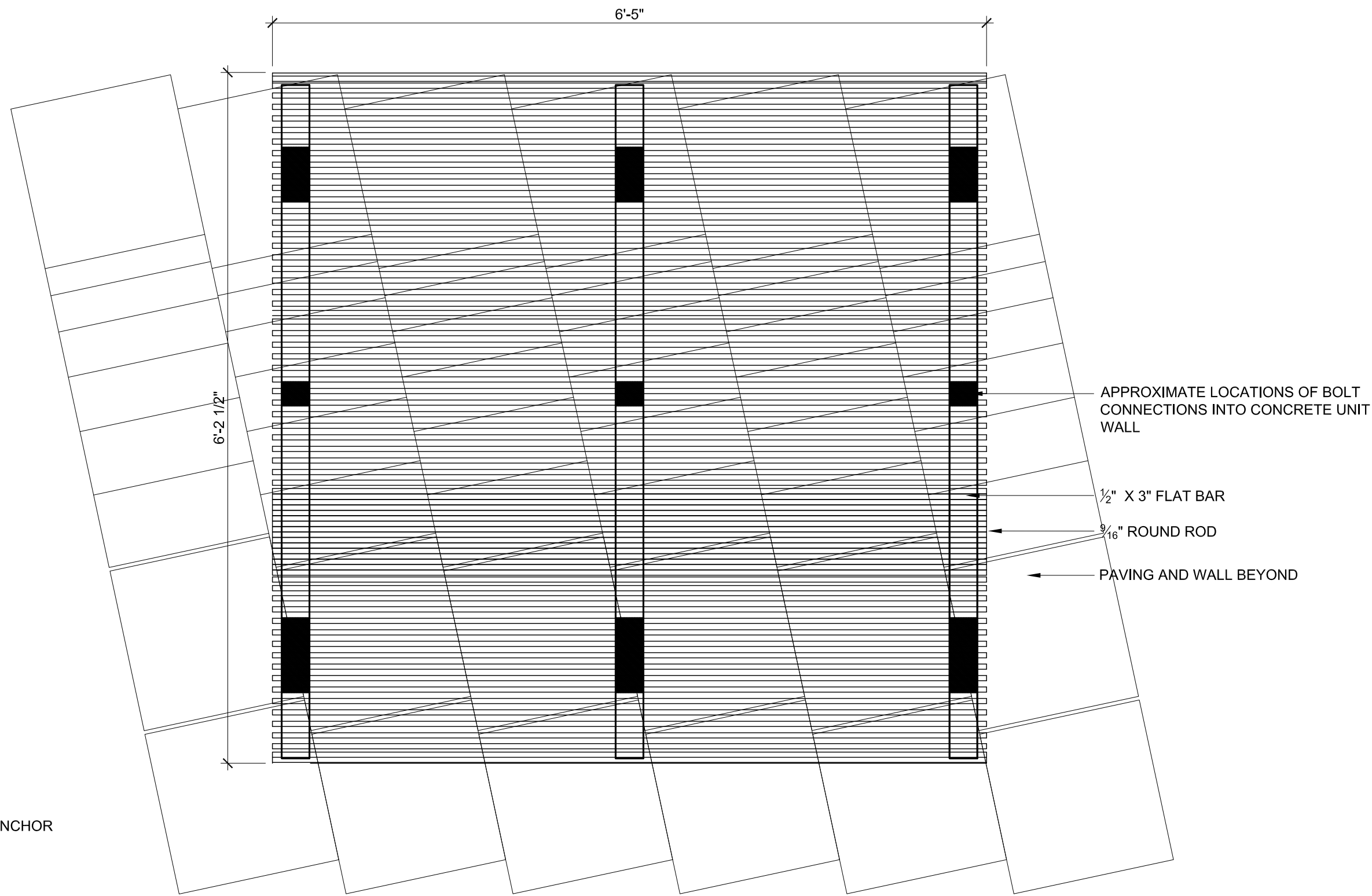
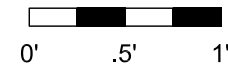


NOTE FOR ALL CUSTOM METAL FABRICATIONS

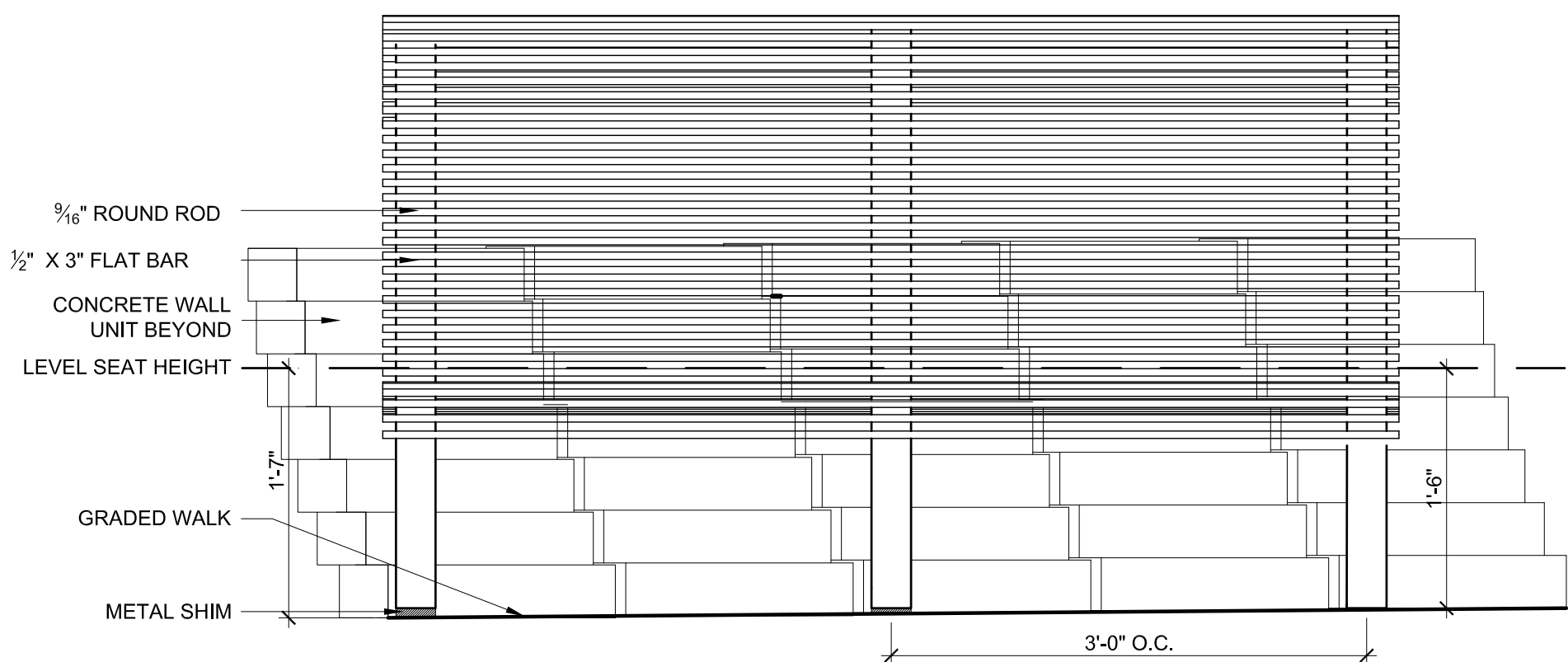
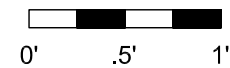
1. ALL COMPONENTS METAL UNLESS OTHERWISE SPECIFIED. SEE SPECIFICATIONS FOR METAL AND FINISH SPECIFICATIONS.
2. FABRICATOR TO PROVIDE SHOP DRAWINGS AND APPROVAL BY CERTIFIED STRUCTURAL ENGINEER OF ALL FABRICATED STRUCTURES AND FOOTINGS.
3. VERIFY ATTACHMENT REQUIREMENTS RELATIVE TO FINISH GRADE (ELEVATION AND LAYOUT).



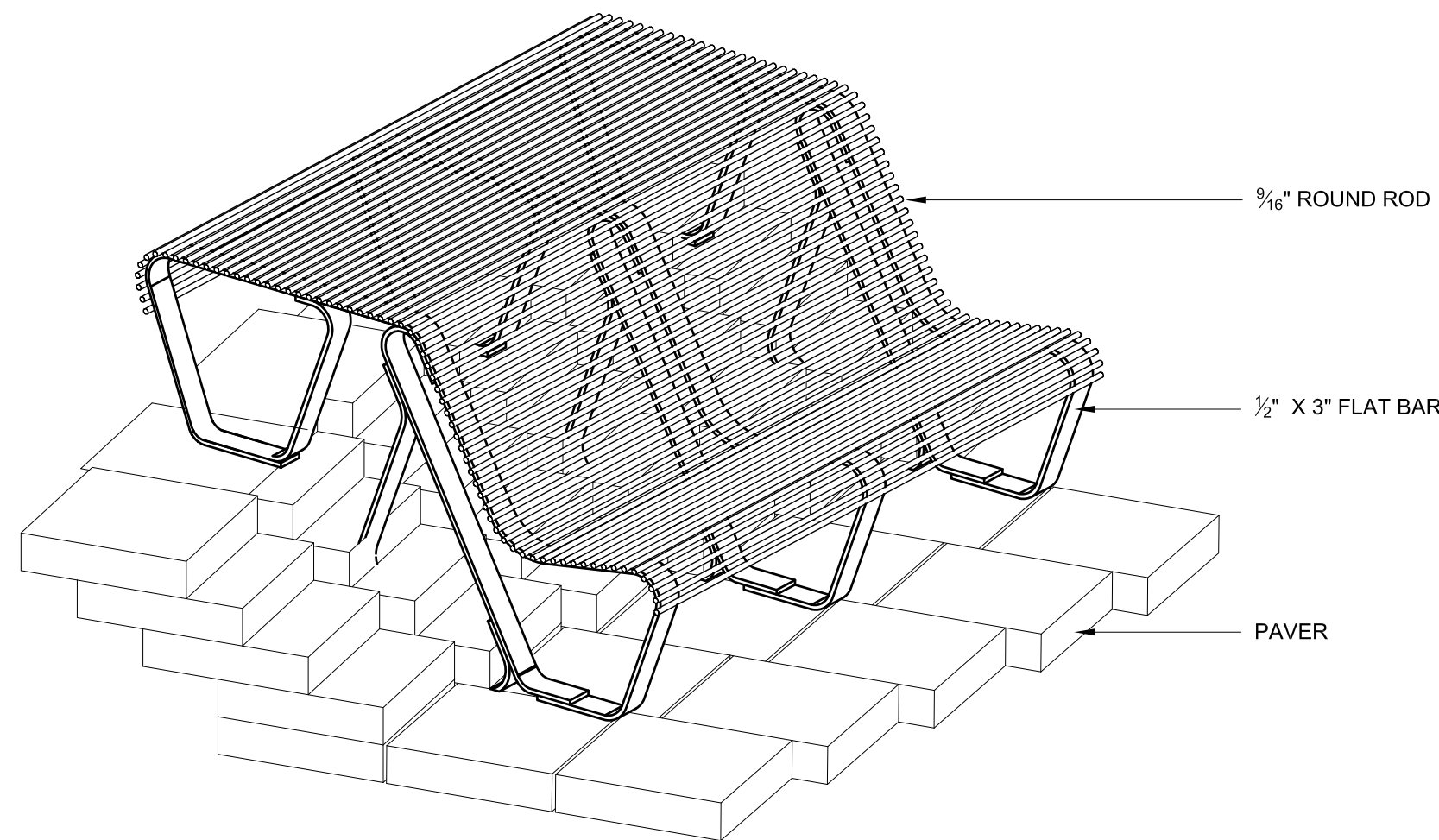
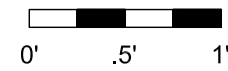
1 BENCH B



2 PLAN BENCH B

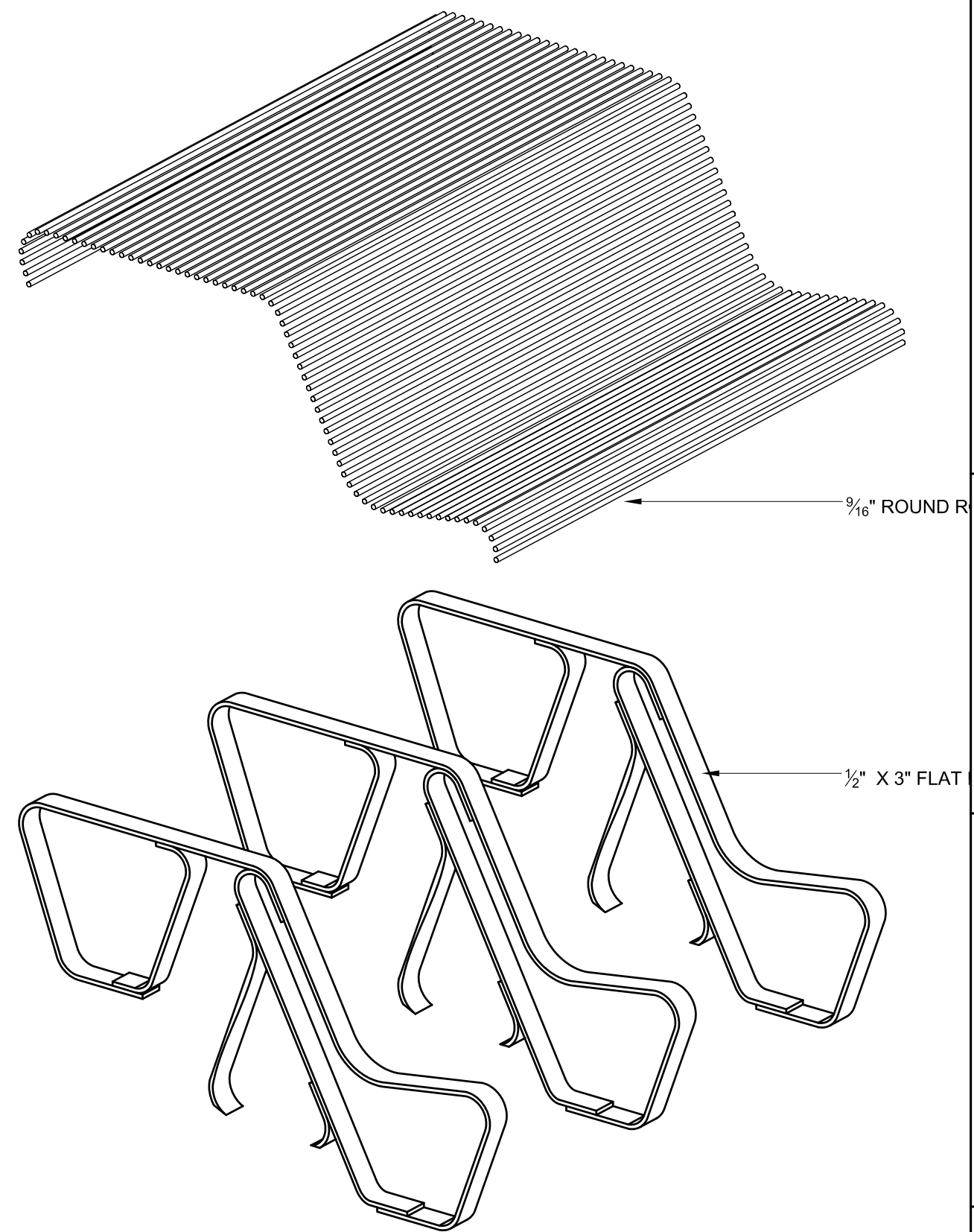


3 ELEVATION BENCH B



4 AXONOMETRIC: FOR REFERENCE ONLY BENCH B

NTS



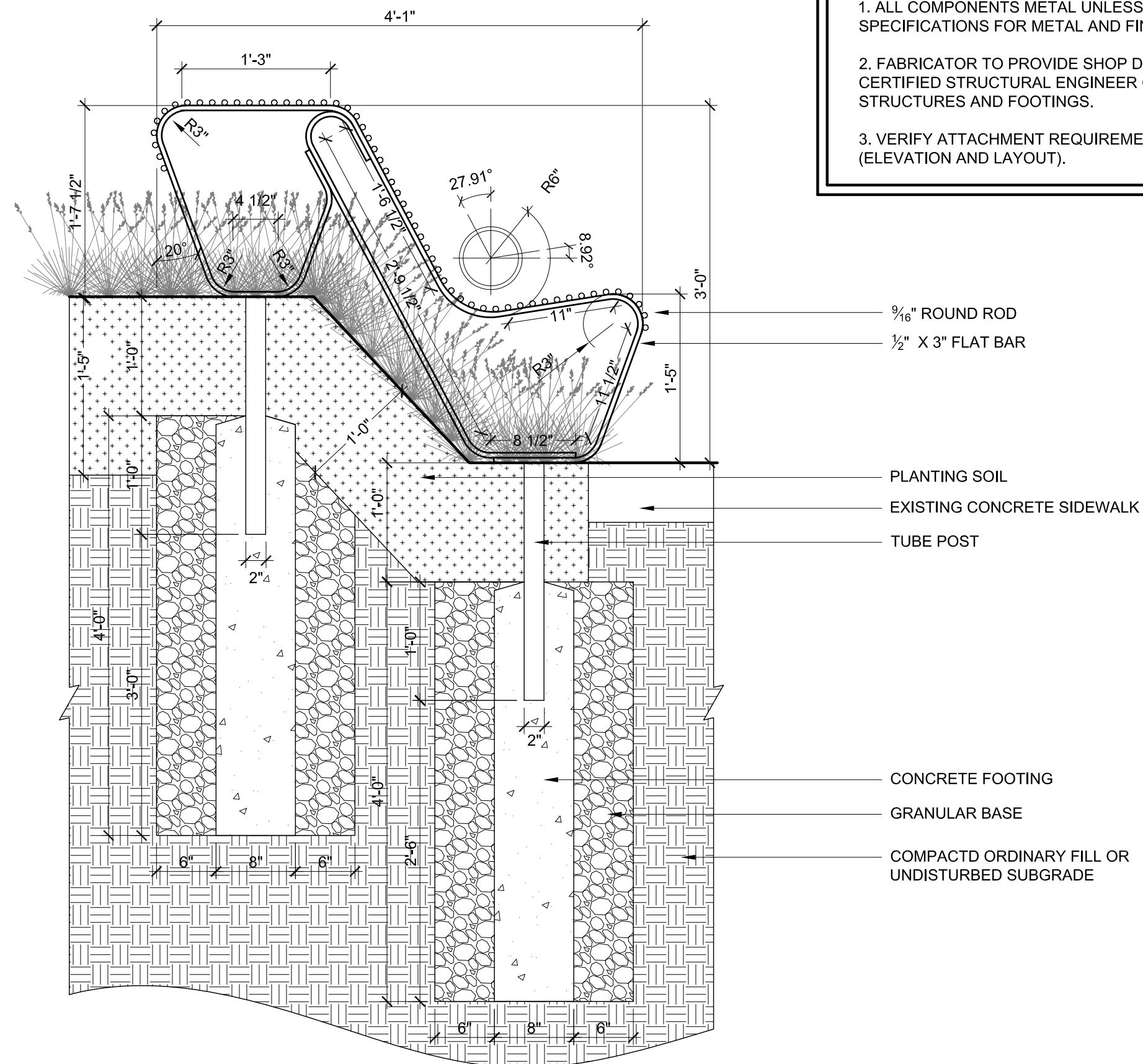
5 EXPLODED AXONOMETRIC: FOR REFERENCE ONLY BENCH B

NTS

NOTE: ALL BENCH COMPONENTS METAL UNLESS NOTED OTHERWISE

NOTE FOR ALL CUSTOM METAL FABRICATIONS

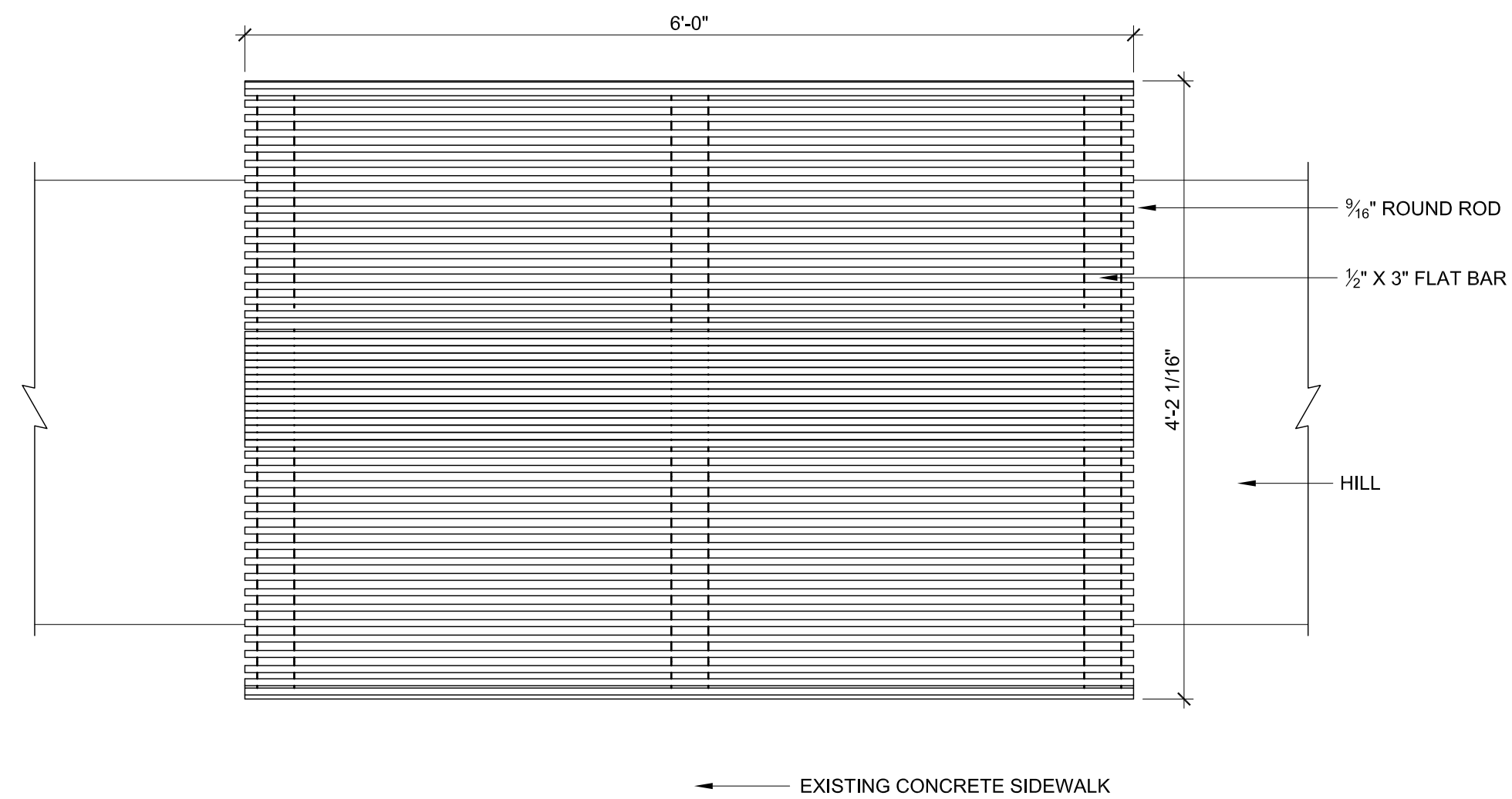
1. ALL COMPONENTS METAL UNLESS OTHERWISE SPECIFIED. SEE SPECIFICATIONS FOR METAL AND FINISH SPECIFICATIONS.
2. FABRICATOR TO PROVIDE SHOP DRAWINGS AND APPROVAL BY CERTIFIED STRUCTURAL ENGINEER OF ALL FABRICATED STRUCTURES AND FOOTINGS.
3. VERIFY ATTACHMENT REQUIREMENTS RELATIVE TO FINISH GRADE (ELEVATION AND LAYOUT).



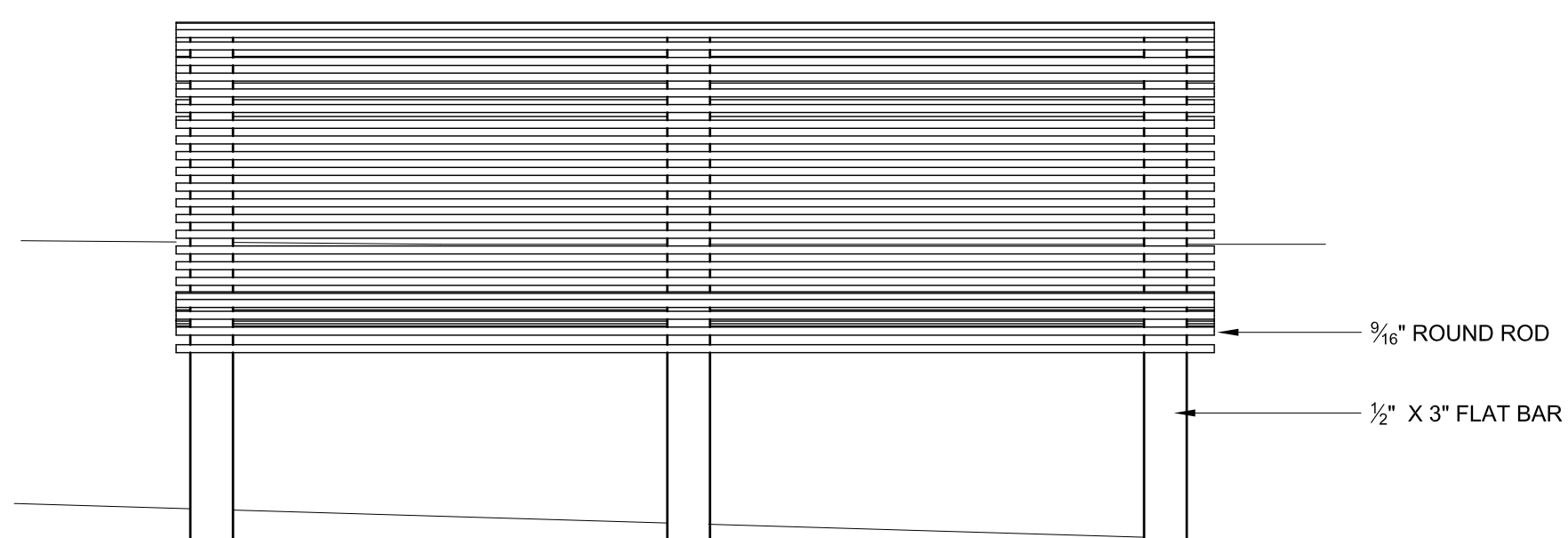
SECTION
BENCH C



0' .5' 1'

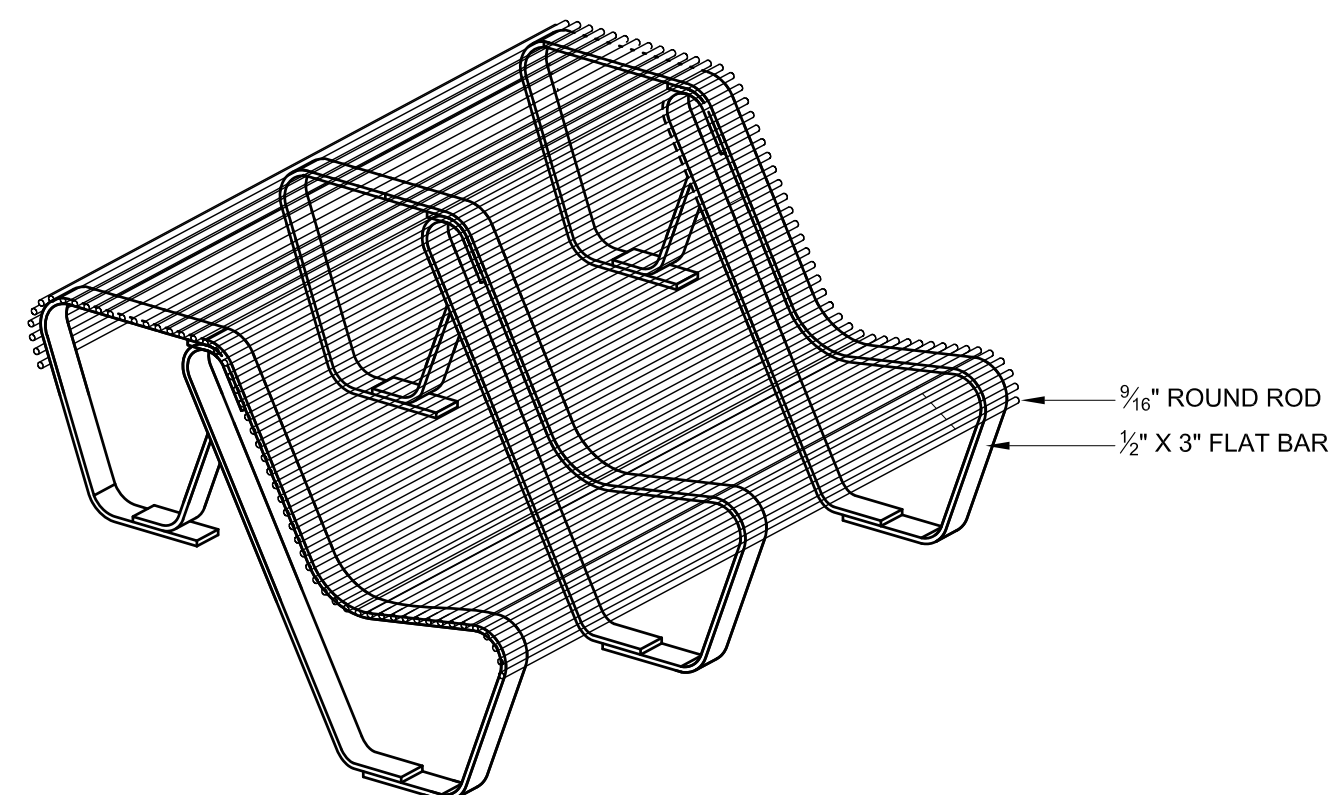


2 PLAN
BENCH C

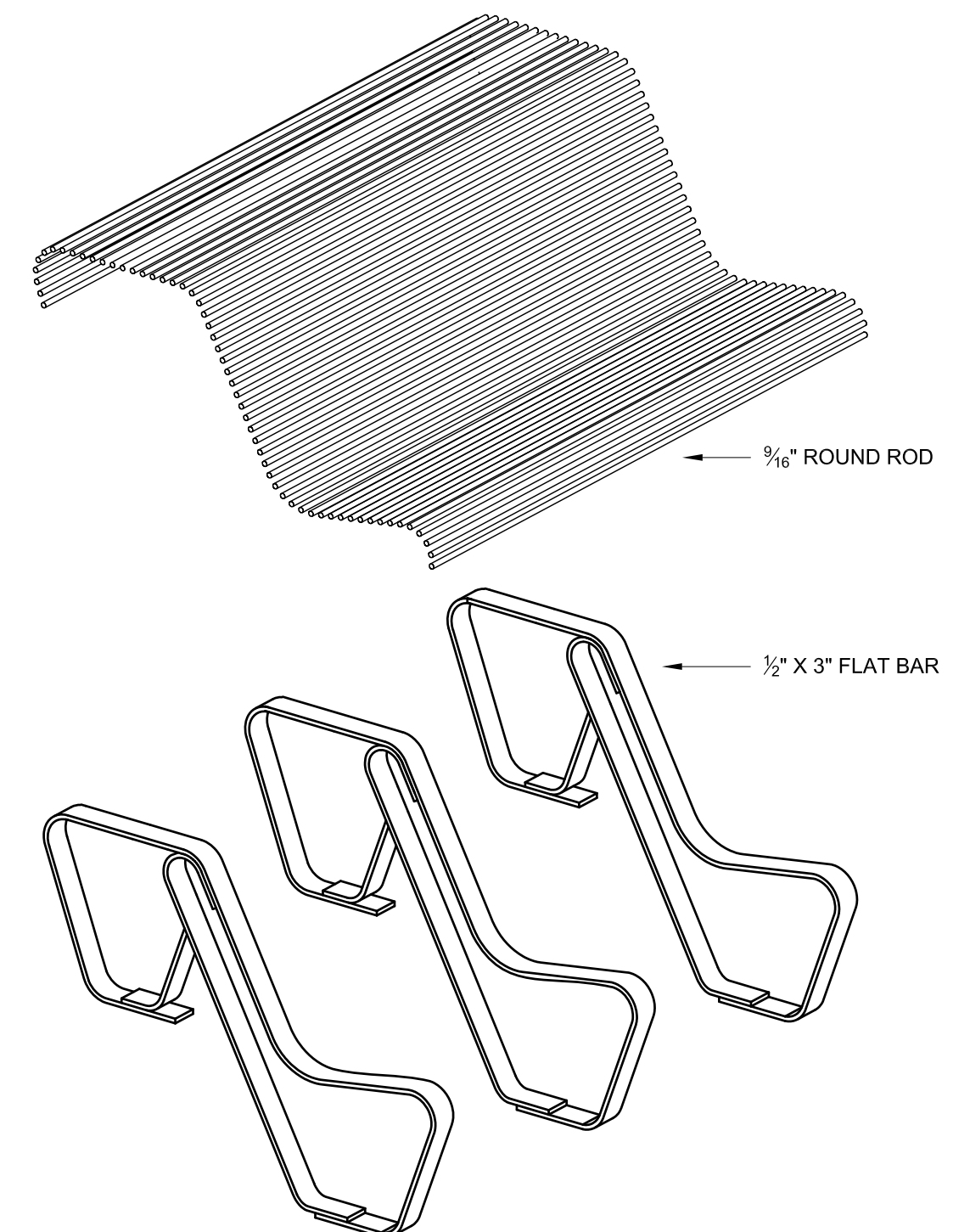


3 ELEVATION
BENCH C

0' 5' 1'



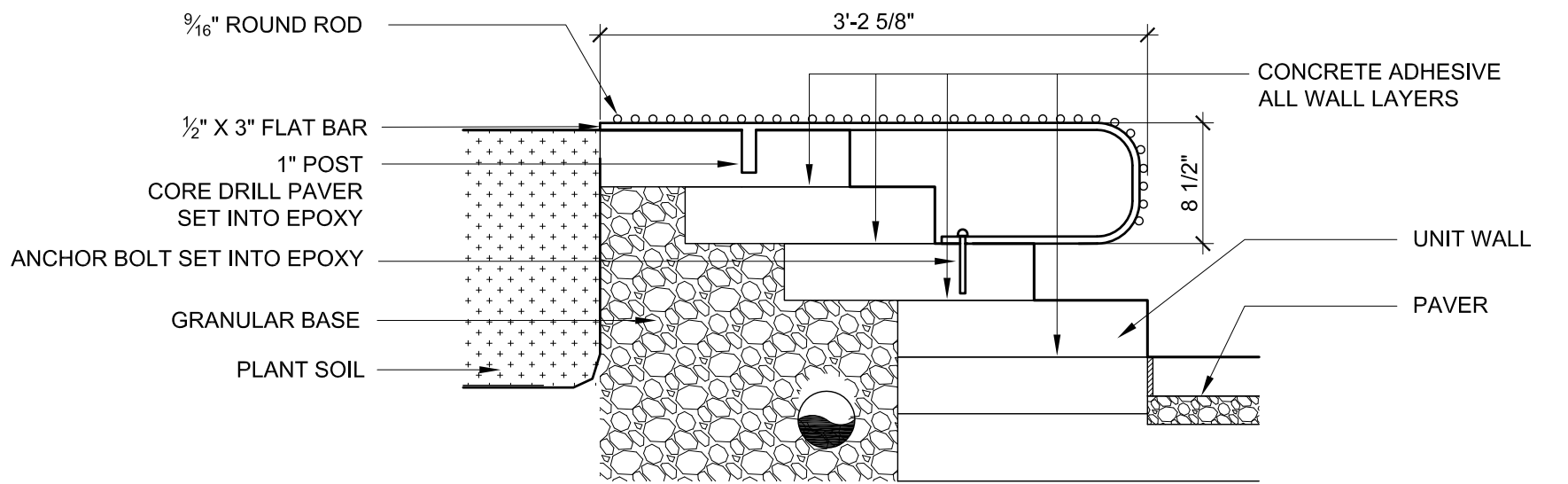
4 AXONOMETRIC: FOR REFERENCE ONLY
BENCH C
NTS



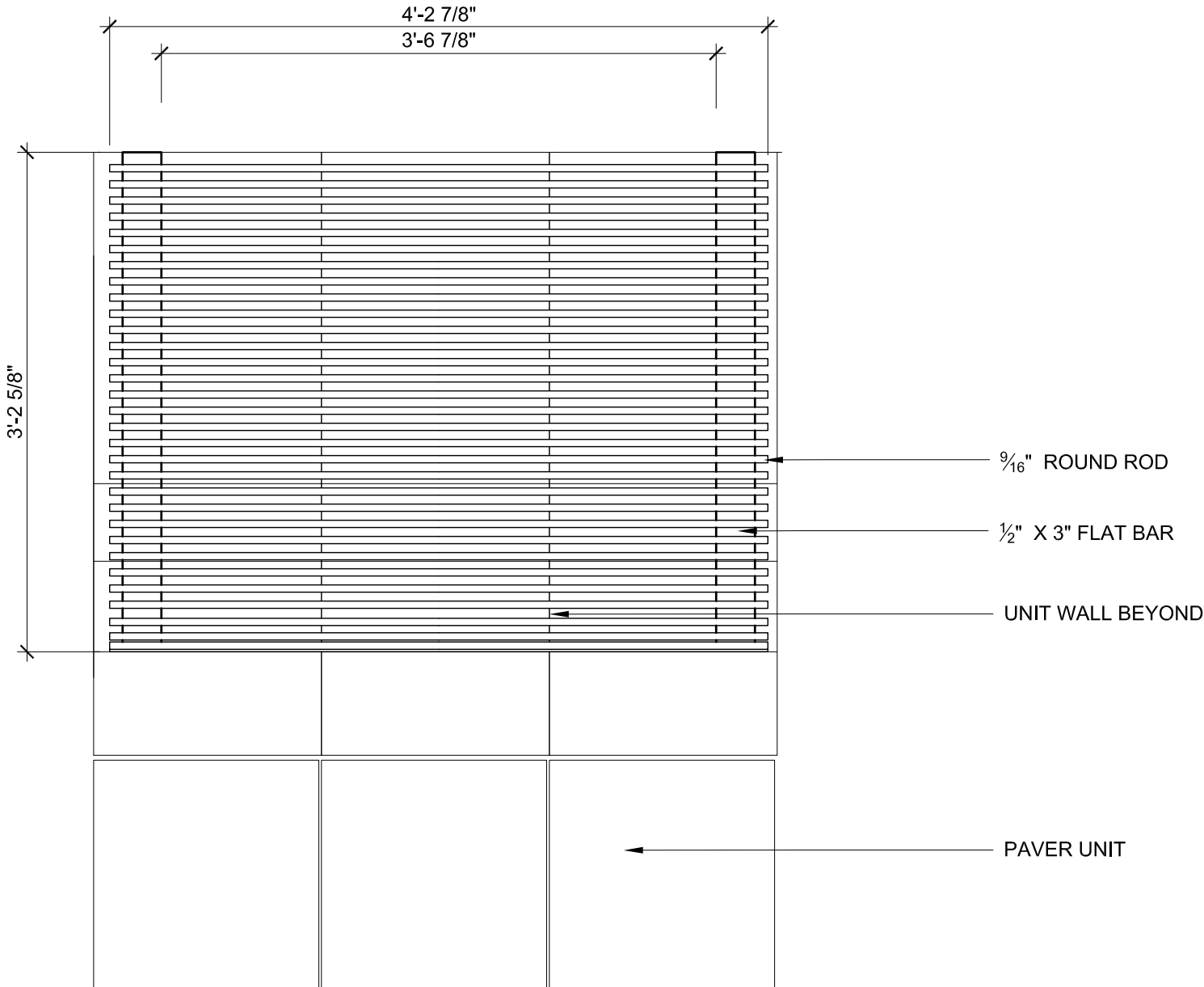
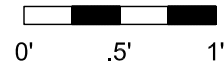
5 EXPLODED AXONOMETRIC: FOR REFERENCE ONLY
BENCH C
NTS

NOTE FOR ALL CUSTOM METAL FABRICATIONS

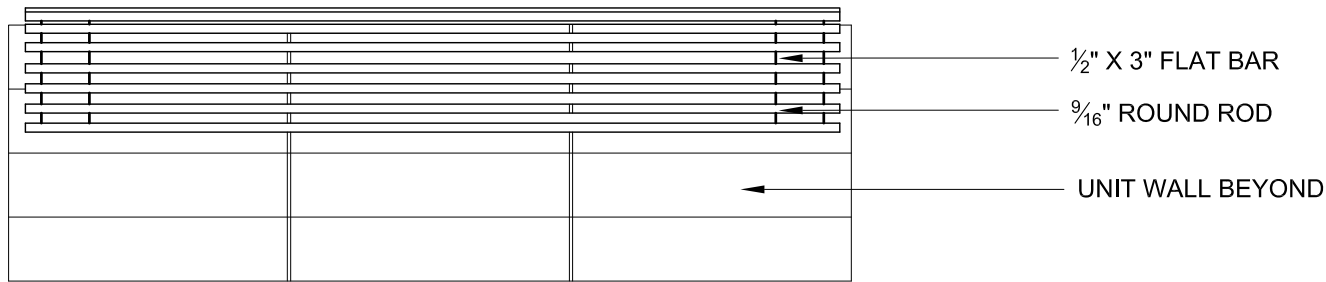
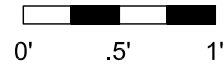
1. ALL COMPONENTS METAL UNLESS OTHERWISE SPECIFIED. SEE SPECIFICATIONS FOR METAL AND FINISH SPECIFICATIONS.
2. FABRICATOR TO PROVIDE SHOP DRAWINGS AND APPROVAL BY CERTIFIED STRUCTURAL ENGINEER OF ALL FABRICATED STRUCTURES AND FOOTINGS.
3. VERIFY ATTACHMENT REQUIREMENTS RELATIVE TO FINISH GRADE (ELEVATION AND LAYOUT).



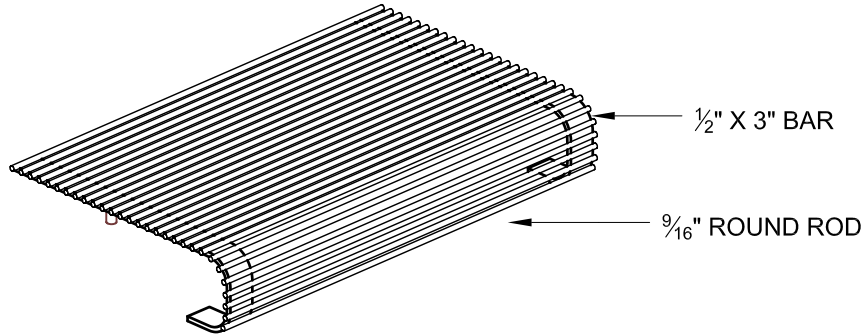
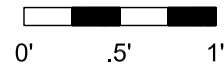
1 BENCH E SECTION



2 BENCH E PLAN

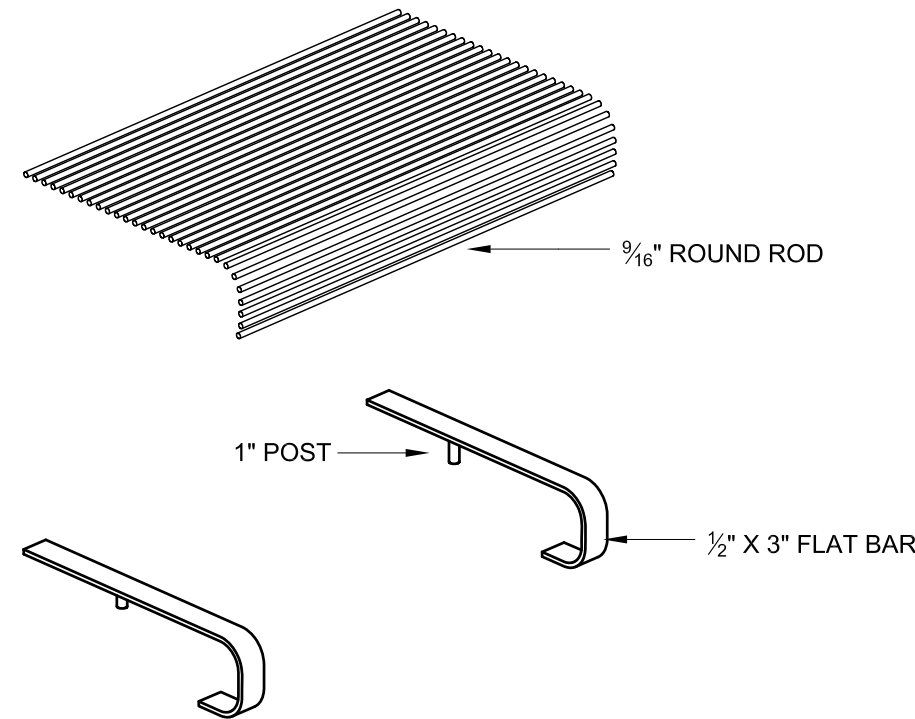


3 BENCH E ELEVATION



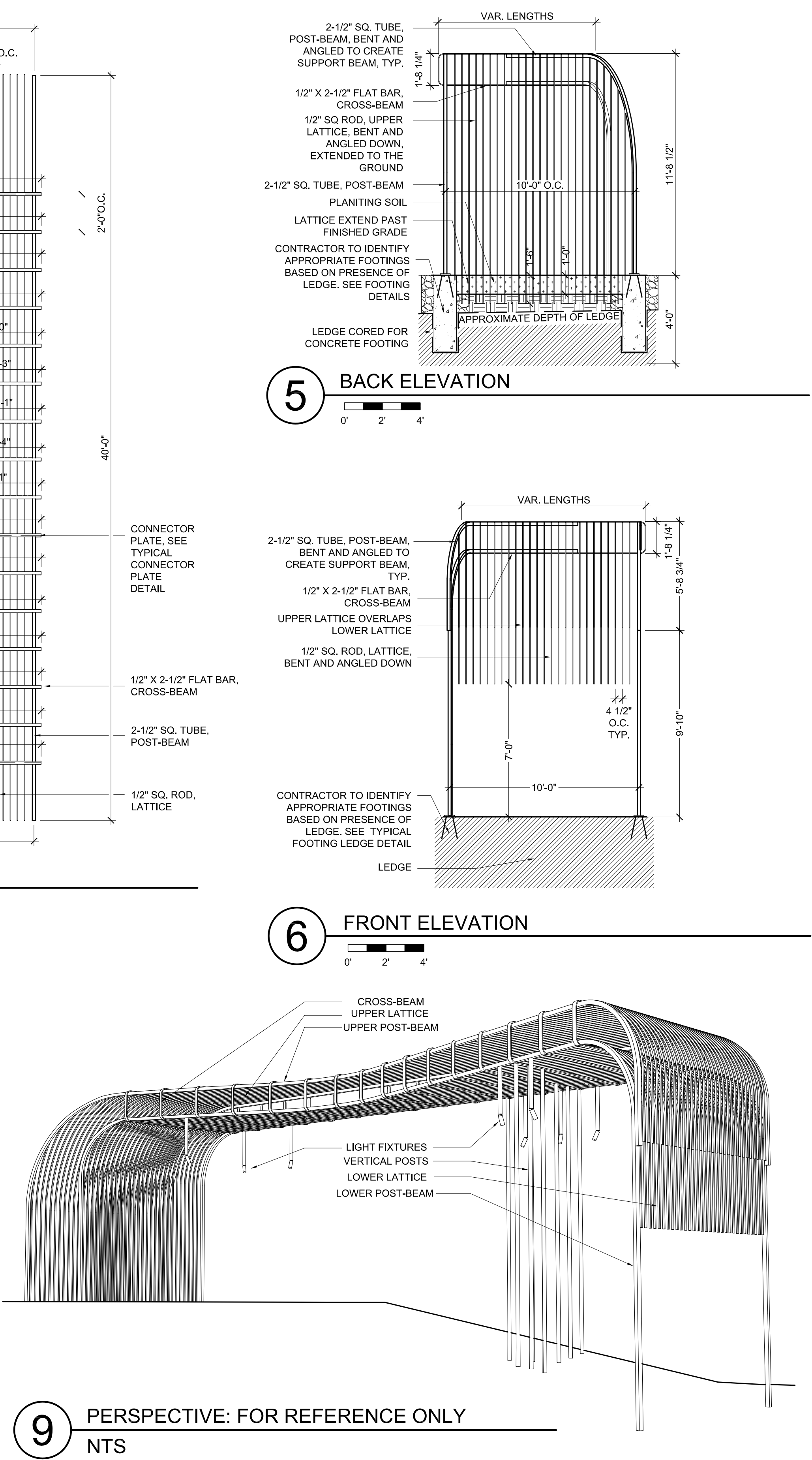
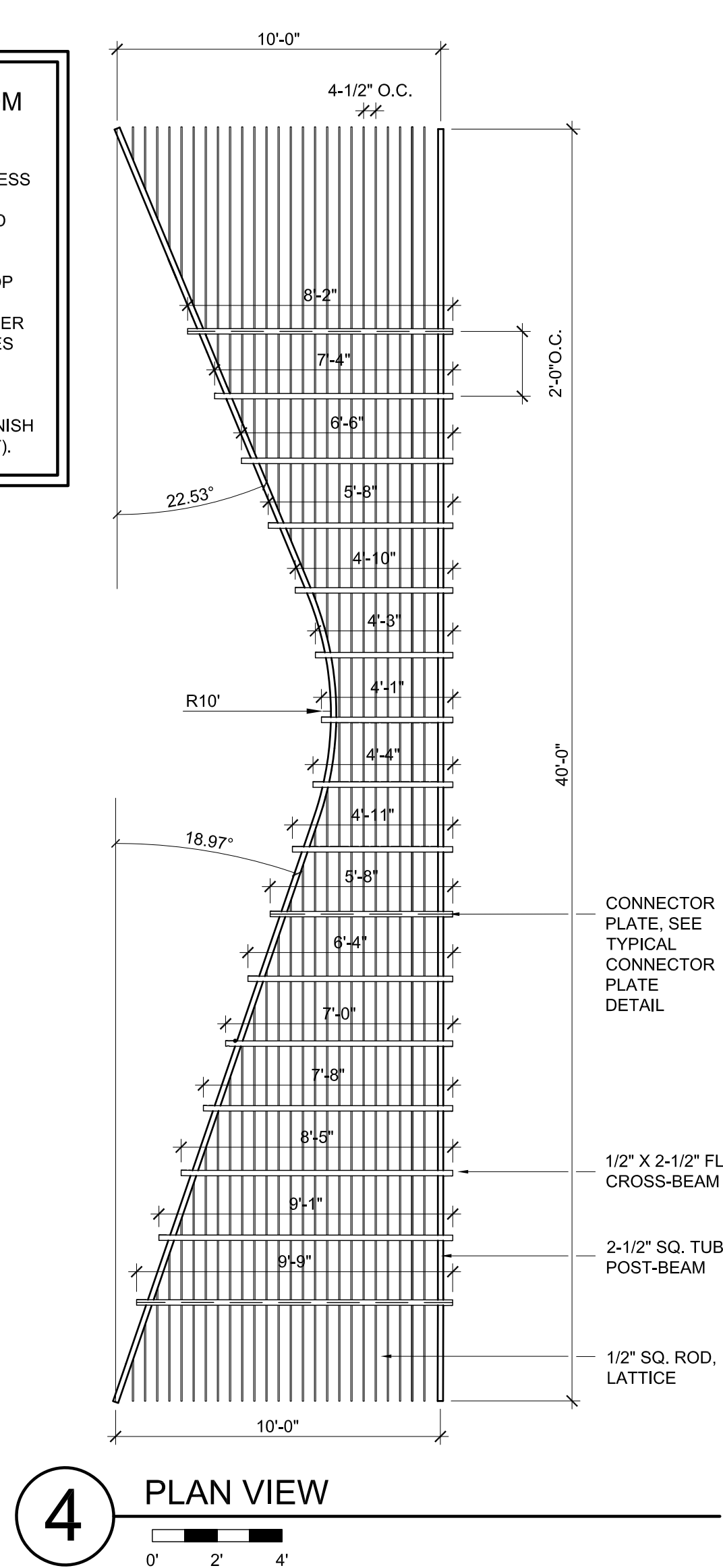
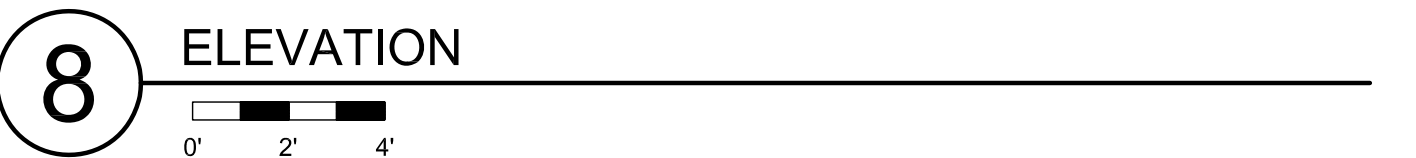
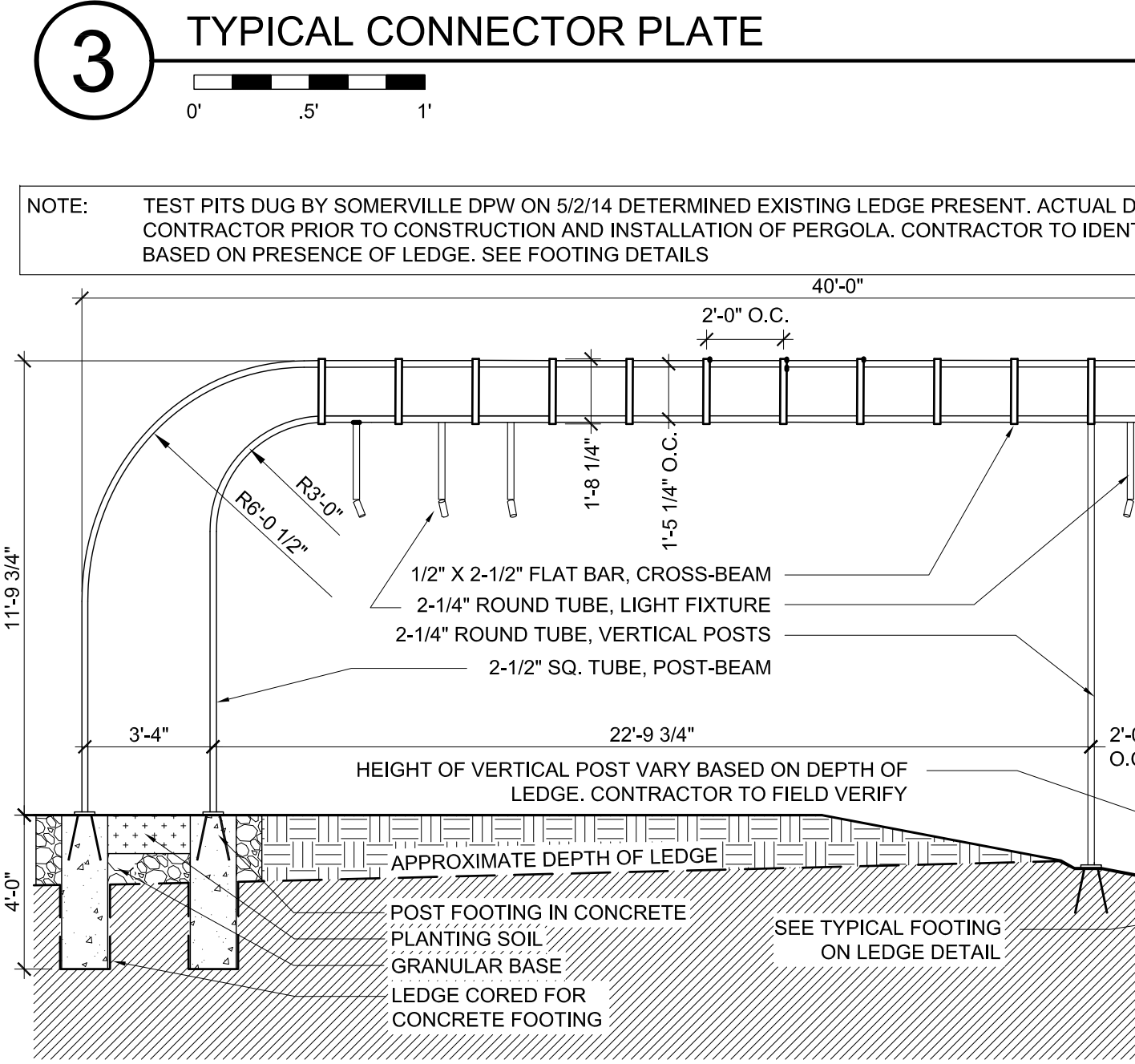
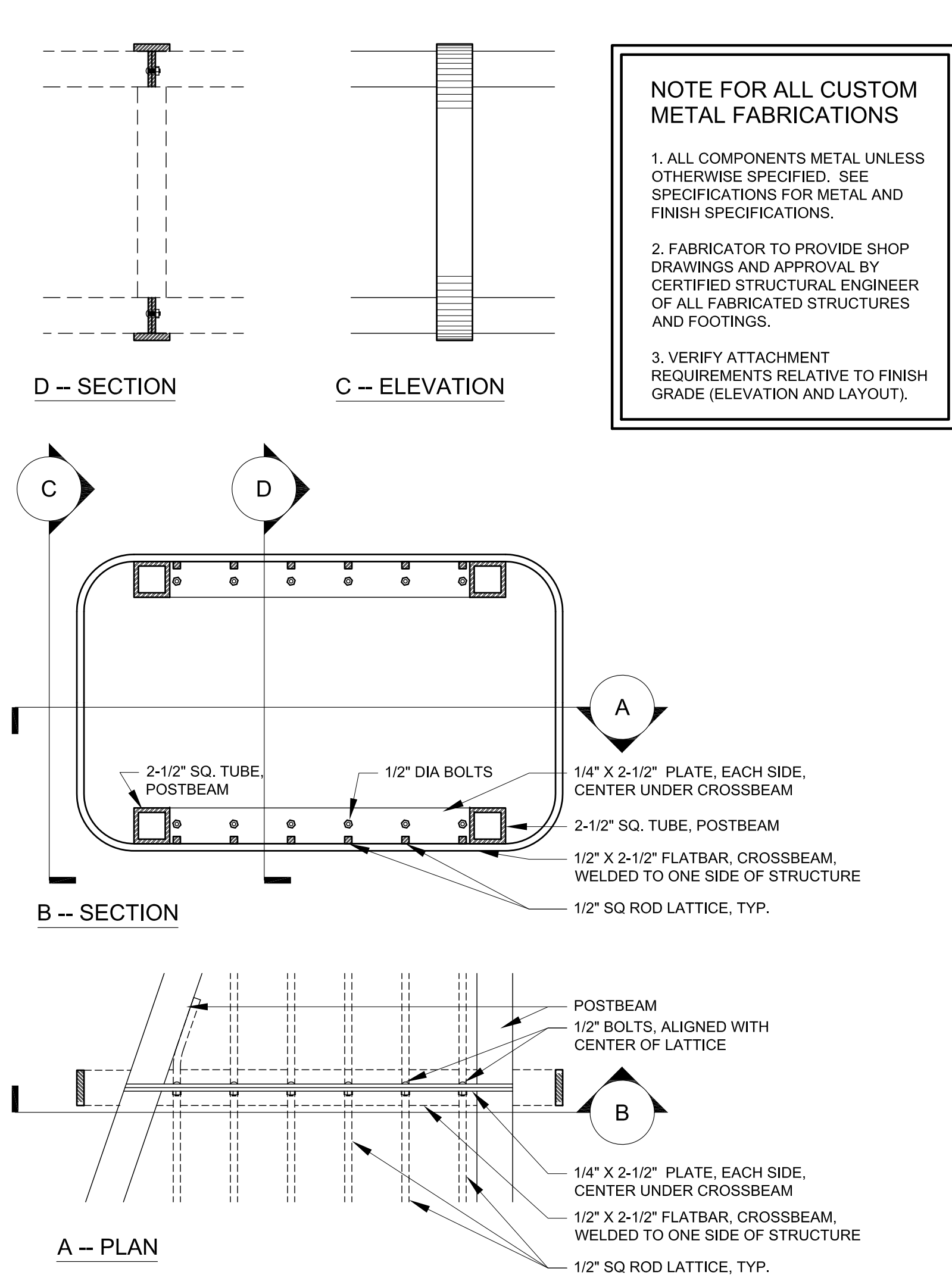
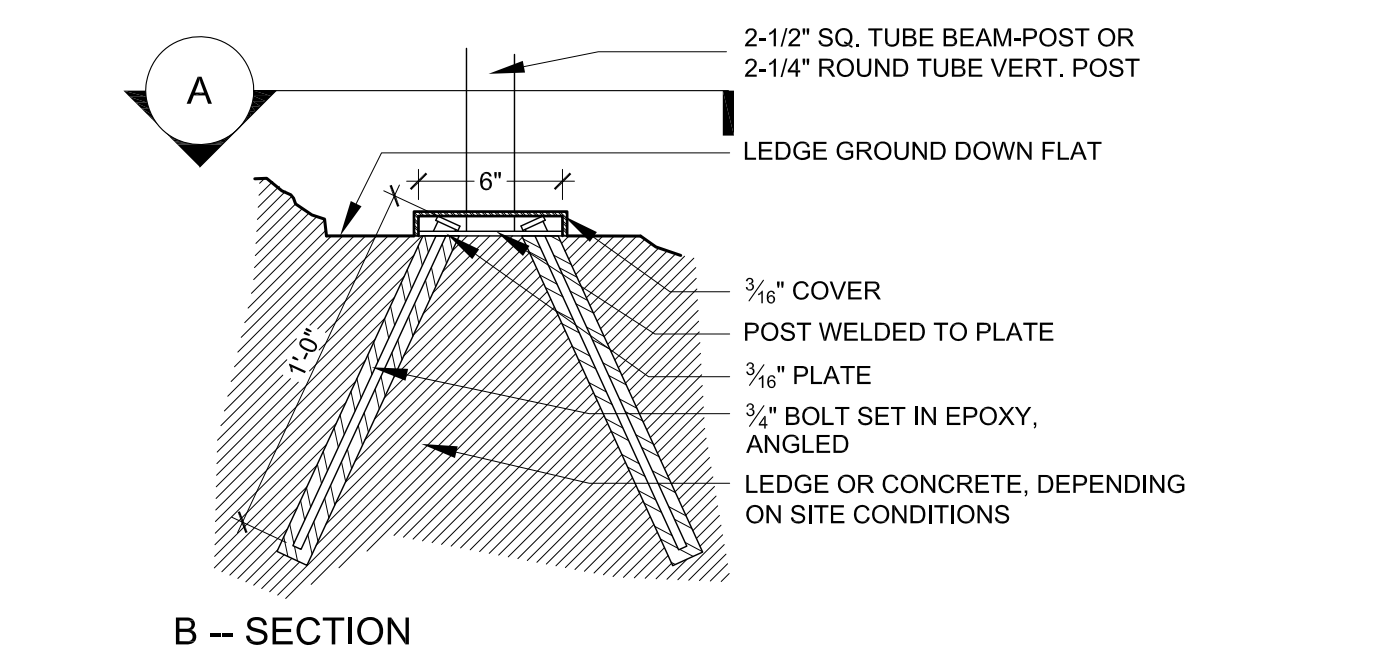
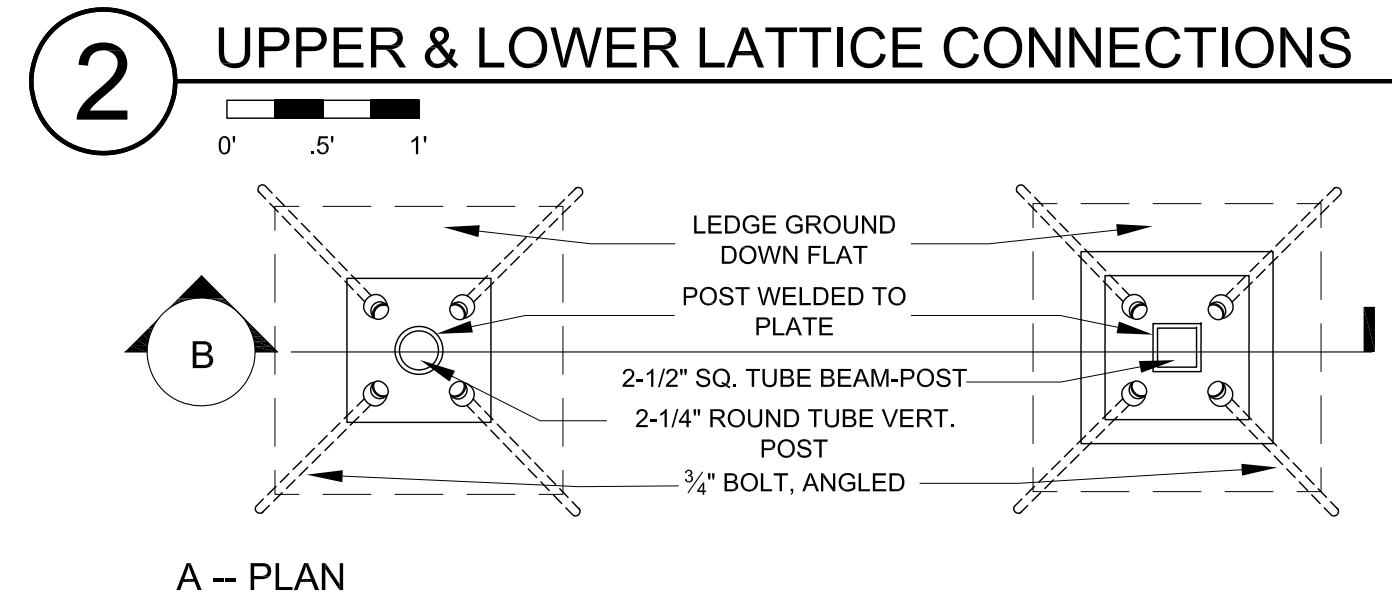
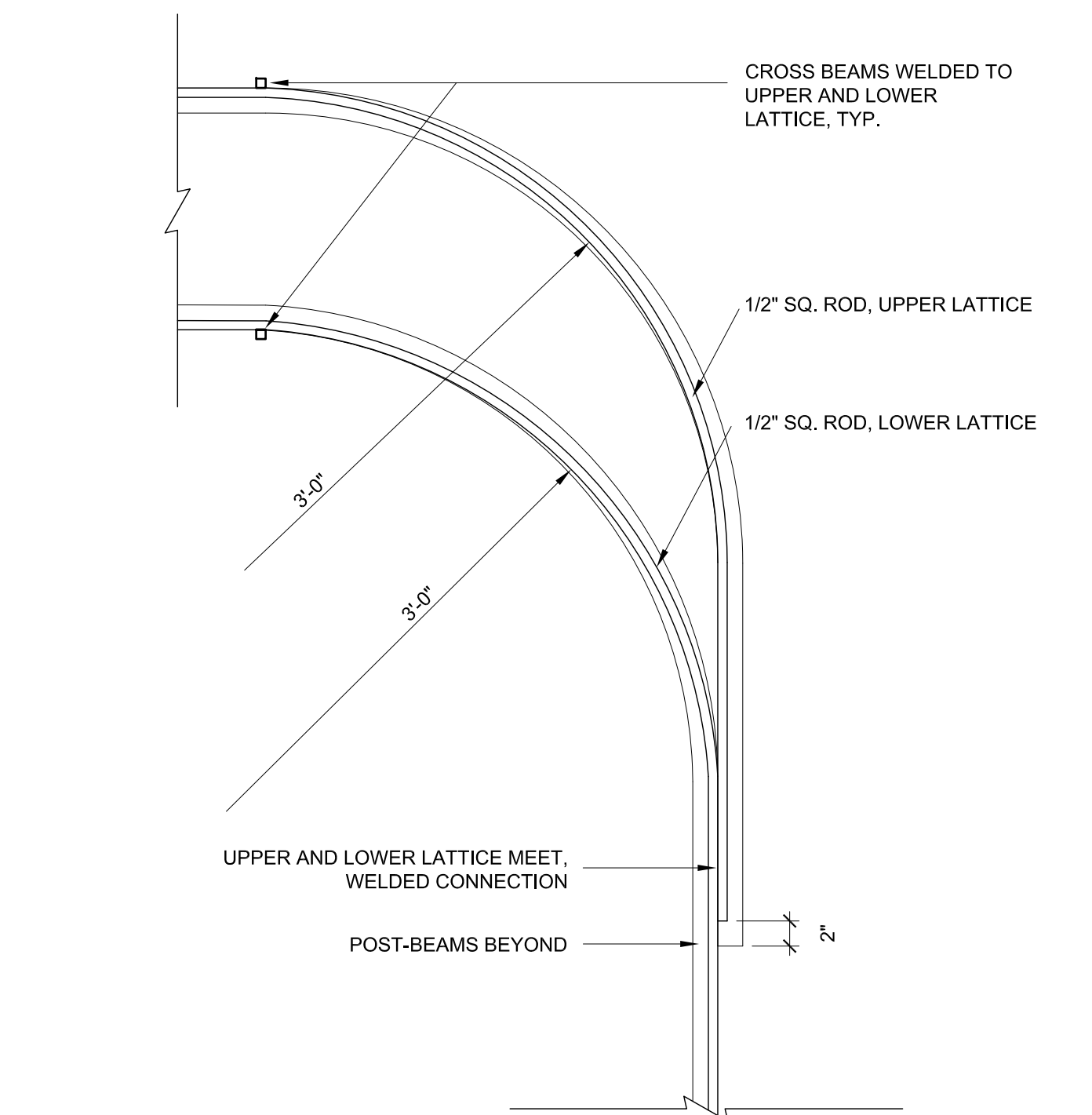
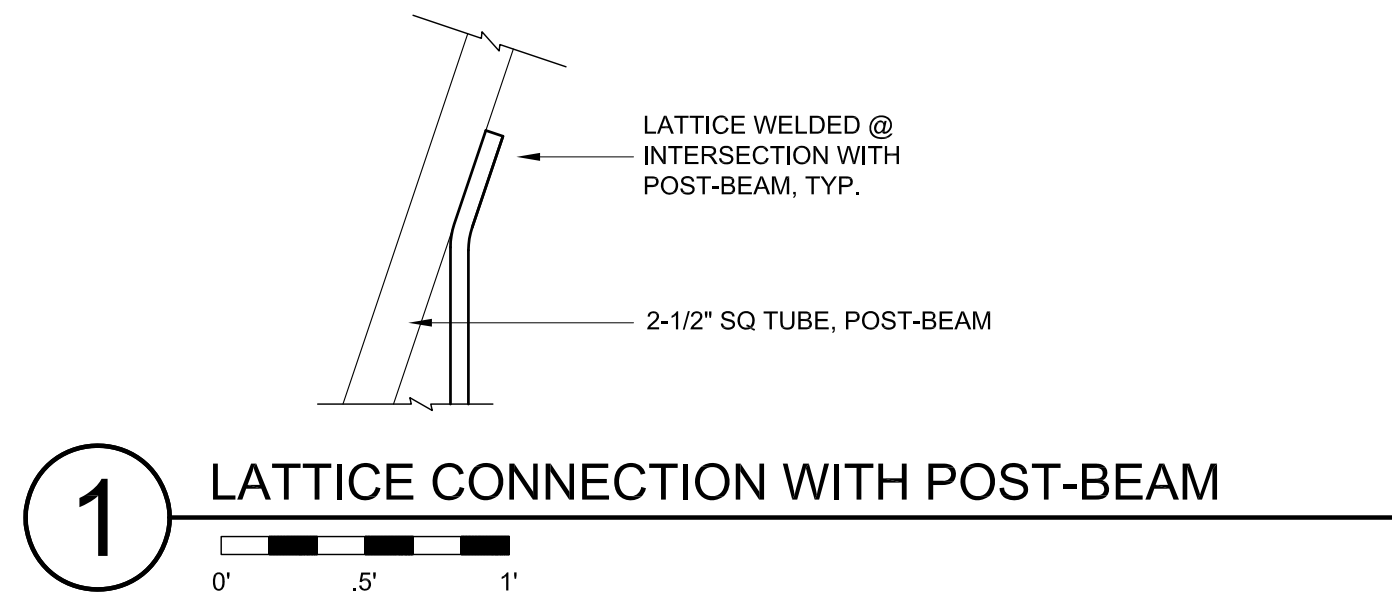
4 AXONOMETRIC: FOR REFERENCE ONLY
BENCH E

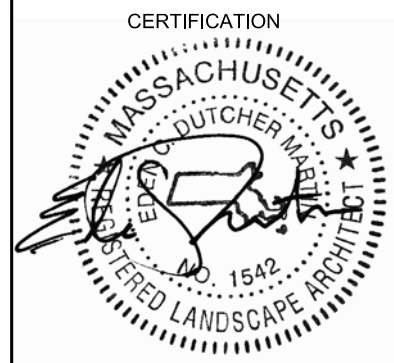
NTS



5 EXPLODED AXONOMETRIC: FOR REFERENCE ONLY
BENCH E

NTS





City of Somerville
Plans for the Construction of:
Symphony Park
Pearl Street
Somerville, MA



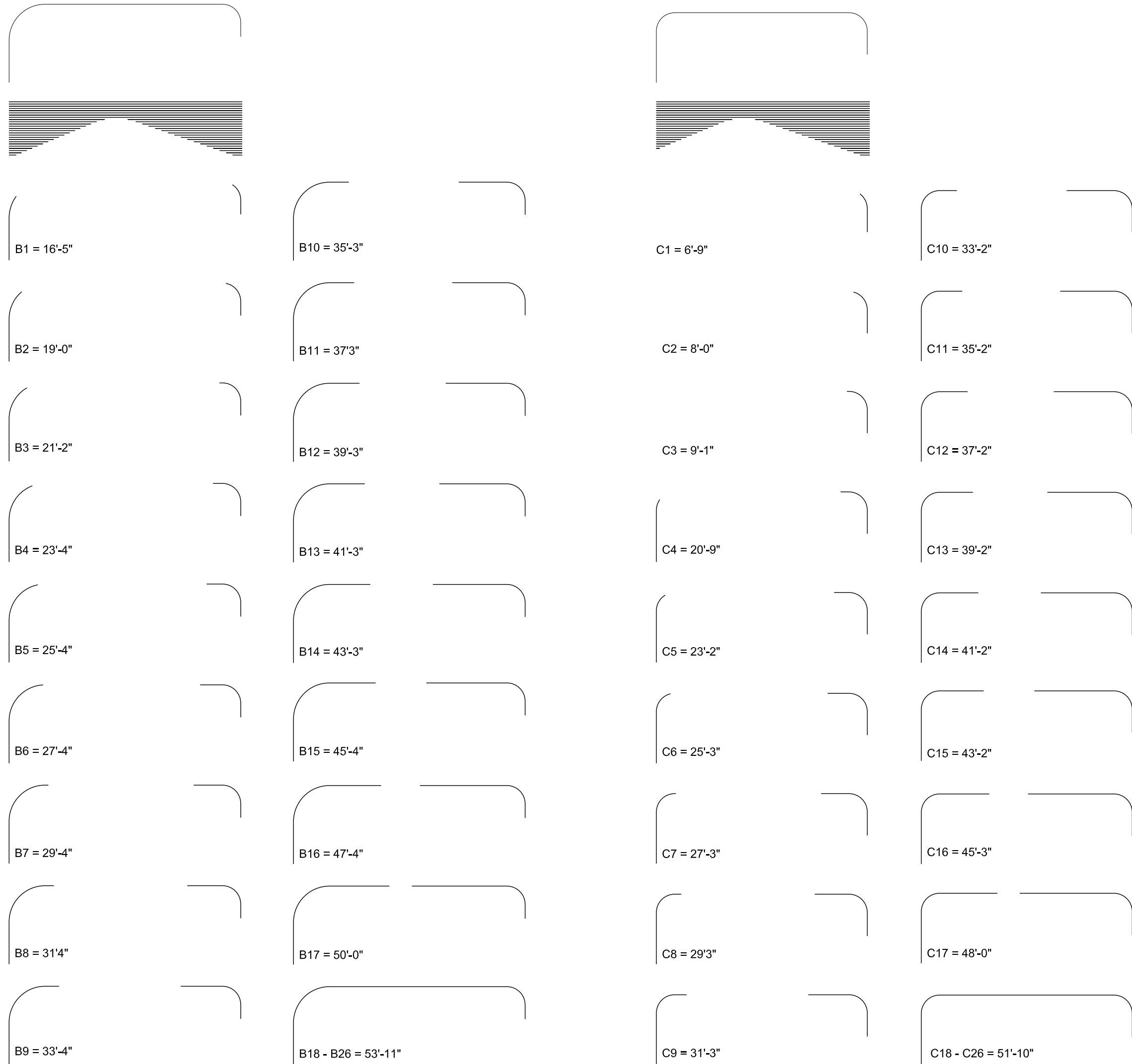
ISSUED	
PURPOSE	DATE

BID DOCUMENTS

SCALE:	DATE:
AS NOTED	05.12.14
DRAWN BY:	CHECKED BY:
ED	WM

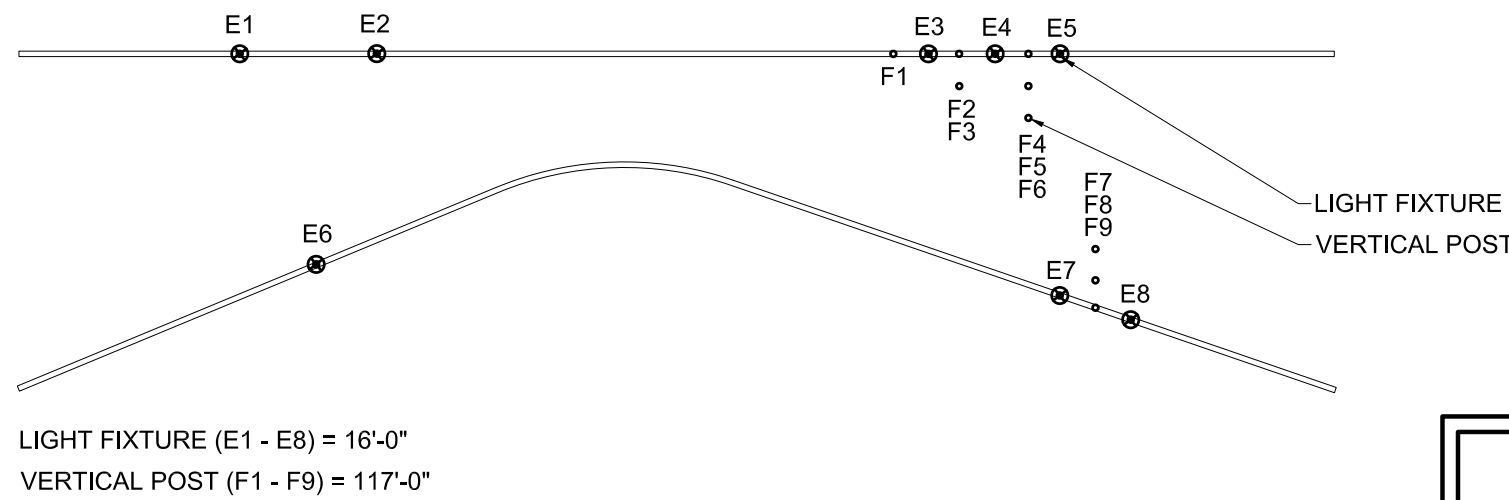
SHEET
DETAILS
PLAN

L-5.12

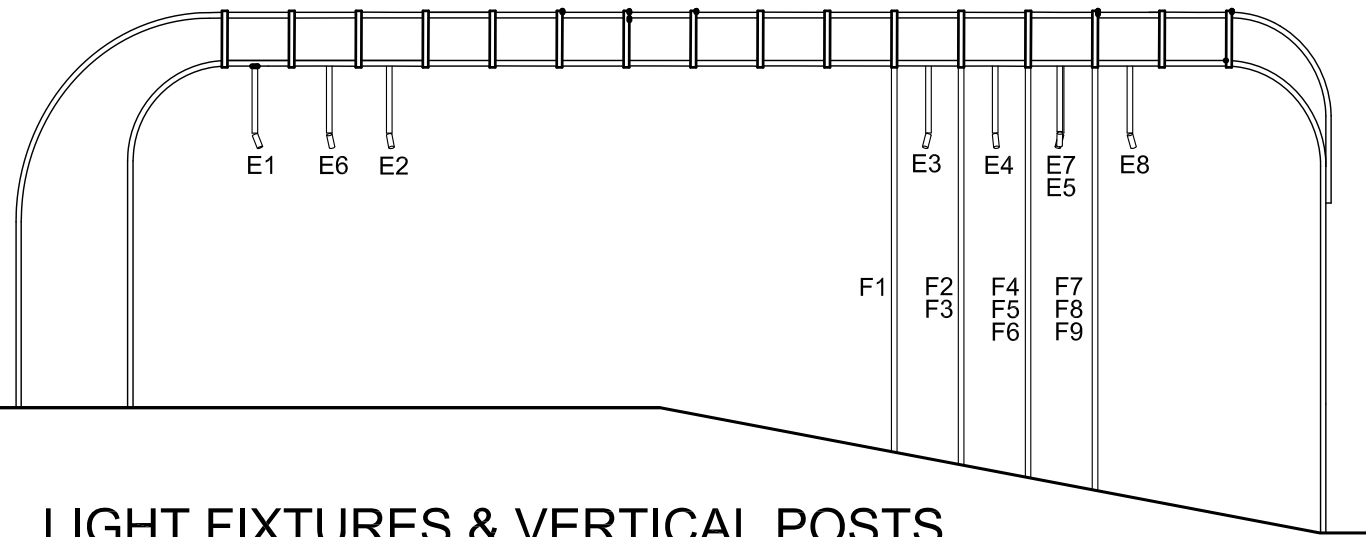


1 LOWER LATTICE MEMEBERS
NTS

2 UPPER LATTICE MEMBERS
NTS



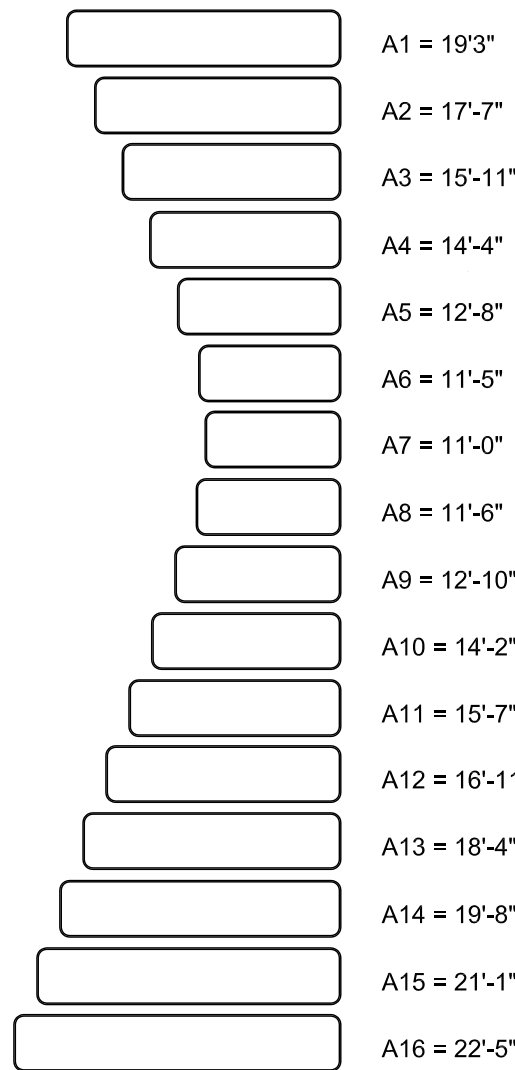
LIGHT FIXTURE (E1 - E8) = 16'-0"
VERTICAL POST (F1 - F9) = 117'-0"



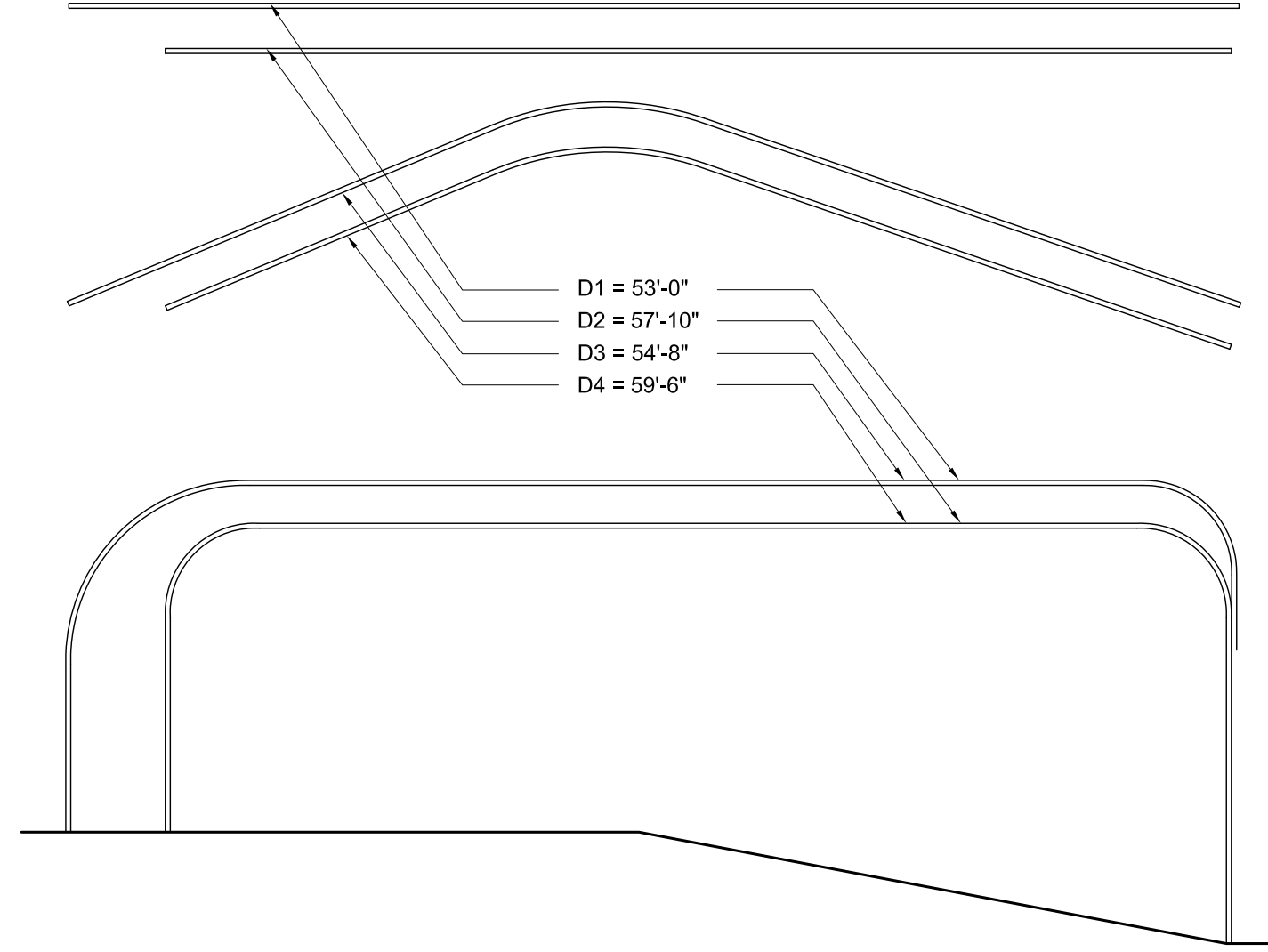
5 LIGHT FIXTURES & VERTICAL POSTS
NTS

NOTE FOR ALL CUSTOM METAL FABRICATIONS

- ALL COMPONENTS METAL UNLESS OTHERWISE SPECIFIED. SEE SPECIFICATIONS FOR METAL AND FINISH SPECIFICATIONS.
- FABRICATOR TO PROVIDE SHOP DRAWINGS AND APPROVAL BY CERTIFIED STRUCTURAL ENGINEER OF ALL FABRICATED STRUCTURES AND FOOTINGS.
- VERIFY ATTACHMENT REQUIREMENTS RELATIVE TO FINISH GRADE (ELEVATION AND LAYOUT).



3 CROSS-BEAMS
NTS



4 POST-BEAMS
NTS

PERGOLA SCHEDULE

CROSS BEAMS

LOWER LATTICE MEMBERS

UPPER LATTICE MEMBERS

POST-BEAMS

SECTION	LINEAR FEET
A1	19'-3"
A2	17'-7"
A3	15'-11"
A4	14'-4"
A5	12'-8"
A6	11'-5"
A7	11'-0"
A8	11'-6"
A9	12'-10"
A10	14'-2"
A11	15'-7"
A12	16'-11"
A13	18'-4"
A14	19'-8"
A15	21'-1"
A16	22'-5"

TOTAL 254'-8"

SECTION	LINEAR FEET
B1	16'-5"
B2	19'-0"
B3	21'-2"
B4	23'-4"
B5	25'-4"
B6	27'-4"
B7	29'-4"
B8	31'-4"
B9	29'-4"
B10	35'-3"
B11	37'-3"
B12	39'-3"
B13	41'-3"
B14	43'-3"
B15	45'-4"
B16	47'-4"
B17	50'-0"
B18	53'-11"
B19	53'-11"
B20	53'-11"
B21	53'-11"
B22	53'-11"
B23	53'-11"
B24	53'-11"
B25	53'-11"
B26	53'-11"

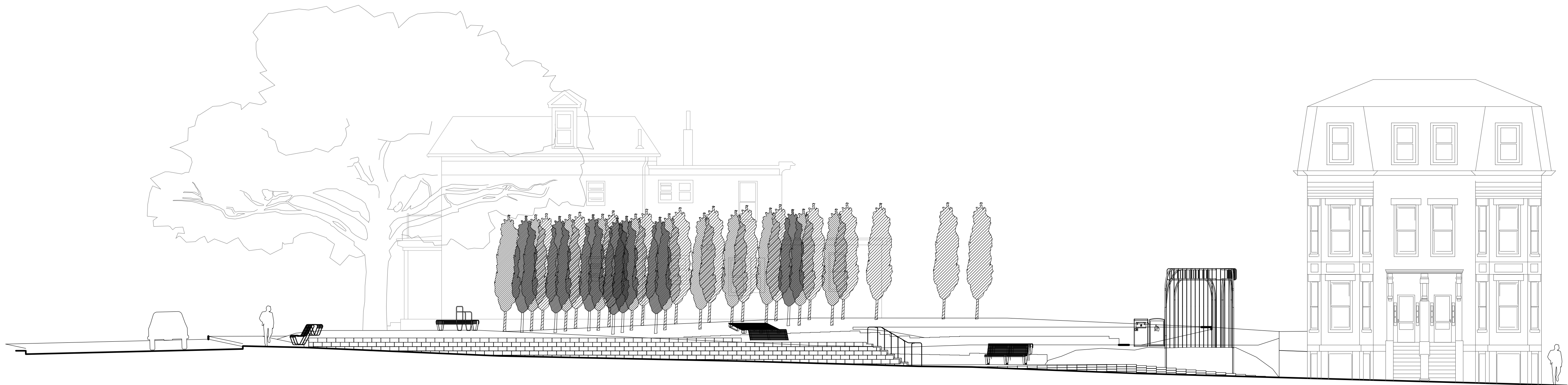
TOTAL 992'10"

SECTION	LINEAR FEET
C1	6'-9"
C2	8'-0"
C3	9'-1"
C4	20'9"
C5	23'2"
C6	25'-3"
C7	27'-3"
C8	29'-3"
C9	31'-3"
C10	33'-2"
C11	35'-2"
C12	37'-2"
C13	39'-2"
C14	41'-2"
C15	43'-2"
C16	45'-3"
C17	48'-0"
C18	51'-10"
C19	51'-10"
C20	51'-10"
C21	51'-10"
C22	51'-10"
C23	51'-10"
C24	51'-10"
C25	51'-10"
C26	51'-10"

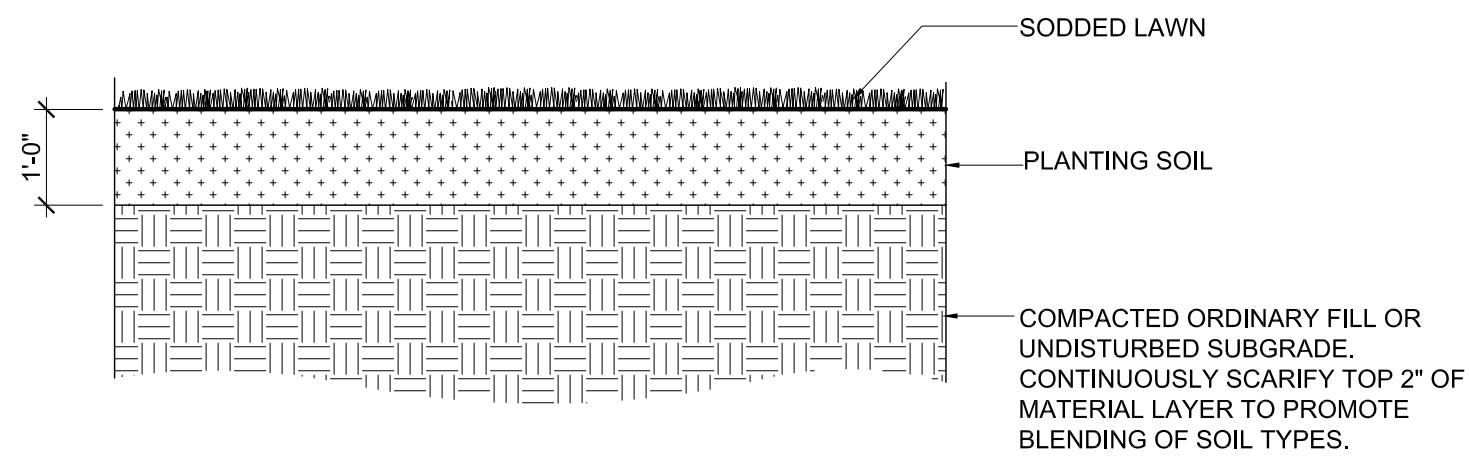
TOTAL 969'-6"

SECTION	LINEAR FEET
D1	53'-0"
D2	57'-10"
D3	54'-8"
D4	59'-6"

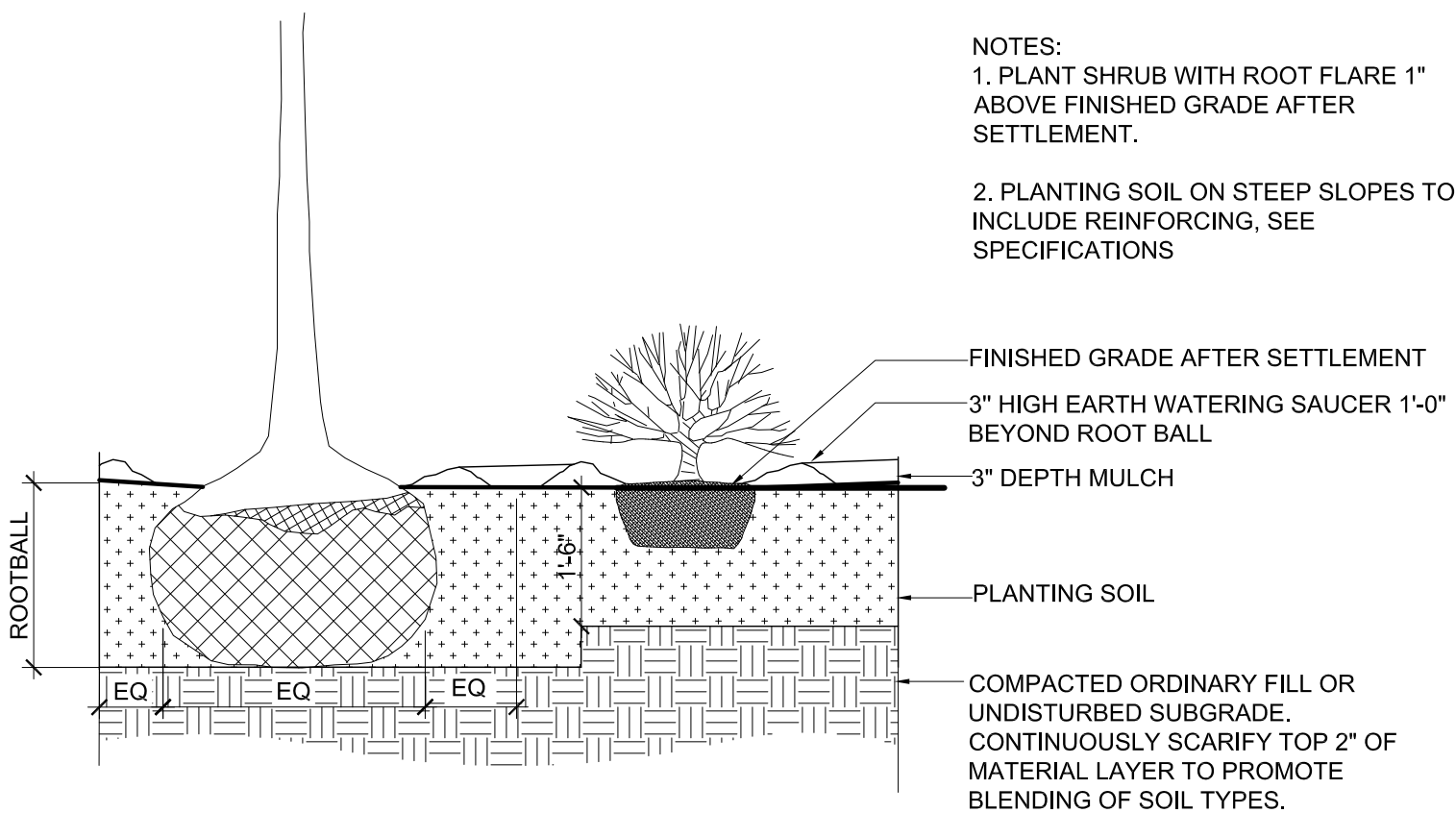
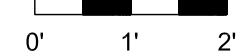
TOTAL 225'



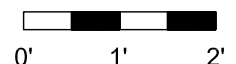
1 FLORENCE STREET ELEVATION



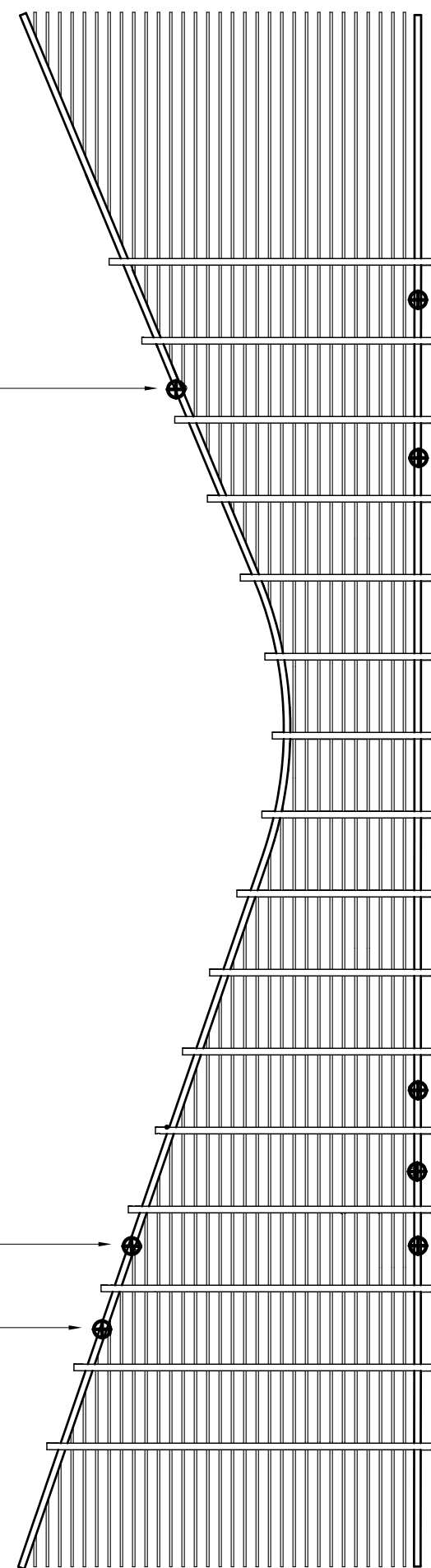
2 LAWN



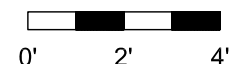
3 PLANT BED



LIGHT FIXTURES

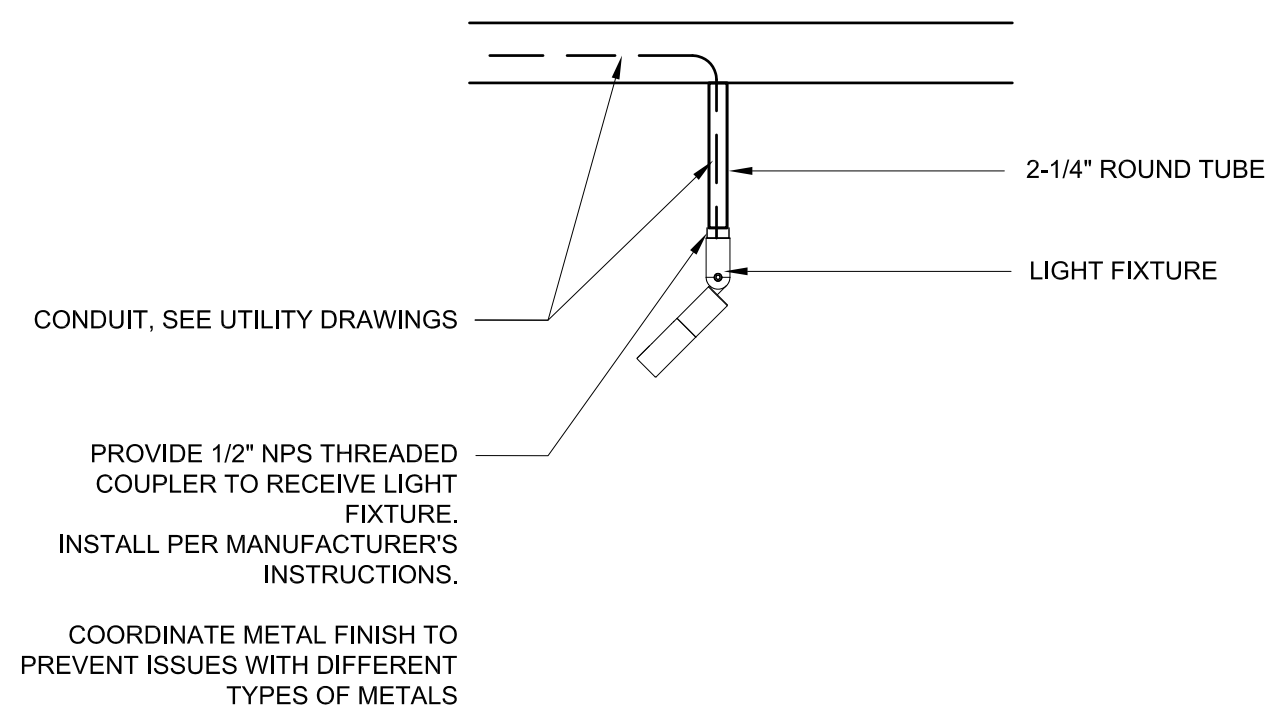


4 PERGOLA LIGHTING PLAN

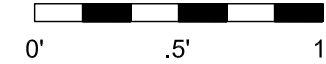


NOTE FOR ALL CUSTOM METAL FABRICATIONS

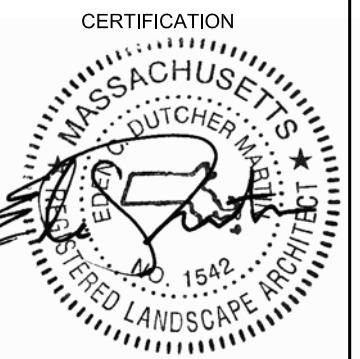
1. ALL COMPONENTS METAL UNLESS OTHERWISE SPECIFIED. SEE SPECIFICATIONS FOR METAL AND FINISH SPECIFICATIONS.
2. FABRICATOR TO PROVIDE SHOP DRAWINGS AND APPROVAL BY CERTIFIED STRUCTURAL ENGINEER OF ALL FABRICATED STRUCTURES AND FOOTINGS.
3. VERIFY ATTACHMENT REQUIREMENTS RELATIVE TO FINISH GRADE (ELEVATION AND LAYOUT).



5 PERGOLA LIGHTING ATTACHMENT



LIGHT FIXTURES AFFIXED TO UNDERSIDE OF POST-BEAM, FOLLOW MANUFACTURER INSTRUCTIONS.



City of Somerville
Plans for the Construction of:
Symphony Park
Pearl Street
Somerville, MA



ISSUED	
PURPOSE	DATE

BID DOCUMENTS

SCALE: AS NOTED	DATE: 05.12.14
DRAWN BY: ED	CHECKED BY: WM

SHEET
DETAILS
PLAN

L-5.13