

PREPARED FOR:



CITY OF SOMERVILLE, MASSACHUSETTS
JOSEPH A. CURTATONE, MAYOR
MICHAEL F. GLAVIN, EXECUTIVE DIRECTOR
MAYOR'S OFFICE OF STRATEGIC PLANNING & COMMUNITY DEVELOPMENT
ARN FRANZEN, DIRECTOR OF PARKS AND OPEN SPACE
CITY HALL
93 HIGHLAND AVENUE
SOMERVILLE, MA 02143
PHONE: 617.625.6600x2545
afranzen@somervillema.gov

HOYT SULLIVAN PLAYGROUND

SOMERVILLE, MASSACHUSETTS

PREPARED BY:



214 CAMBRIDGE ST | FIFTH FLOOR
BOSTON, MA 02114
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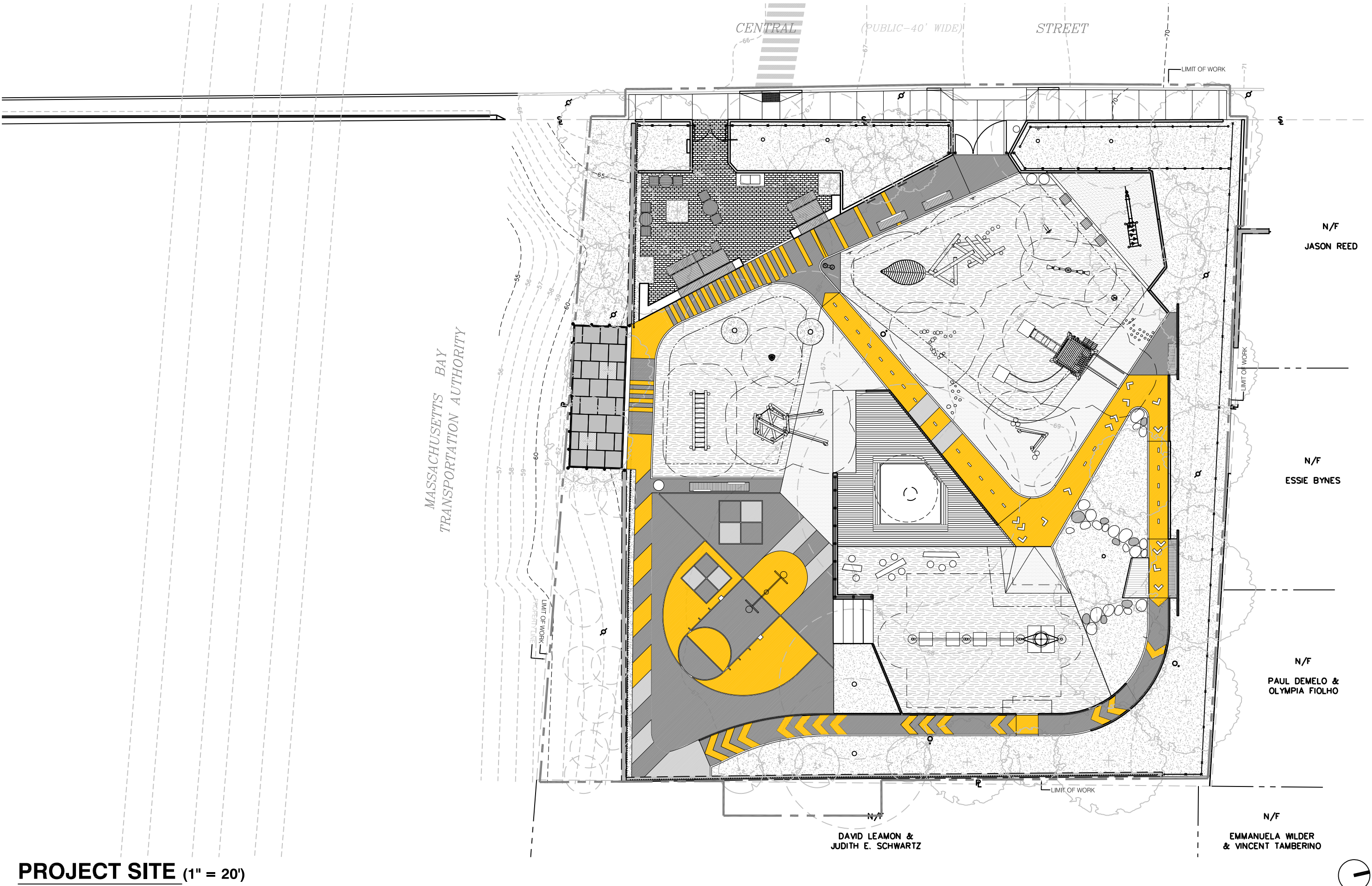
ELECTRICAL
AVID ENGINEERS
344 BOYLSTON STREET - 3RD FLOOR
BOSTON, MA 02116 | t: 978.663.5580

ABBREVIATIONS LIST:

ADJ	ADJACENT
AGG	AGGREGATE
BC	BOTTOM OF CURB
BIT	BITUMINOUS
BETW	BETWEEN
BS	BOTTOM OF STEP
BW	BOTTOM OF WALL
CLF	CHAIN LINK FENCE
CB	CATCH BASIN
CIP	CAST IN PLACE
CONC	CONCRETE
CP	CENTER POINT
DET'L	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DWG	DRAWING
EA	EACH
EH/H	ELECTRIC HAND HOLE
EQ	EQUAL
EXP	EXPANSION
EX	EXISTING
FIN	FINISH
GA	GAUGE
GALV	GALVANIZED
GRAN	GRANITE
HT	HEIGHT
JT	JOINT
LA	LANDSCAPE ARCHTIECT
LP	LIGHT POLE
MAT'L	MATERIAL
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PC	POINT OF CURVATURE
PCS	PIECES
POB	POINT OF BEGINNING
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PTD	PAINTED
PVMT	PAVEMENT
REINF	REINFORCED
REQ	REQUIRED
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SST	STAINLESS STEEL
TC	TOP OF CURB
TS	TOP OF STEP
TW	TOP OF WALL
TYP	TYPICAL
VERT	VERTICAL
VIF	VERIFY IN FIELD
WWM	WELDED WIRE MESH
WG	WATER GATE

DRAWING INDEX

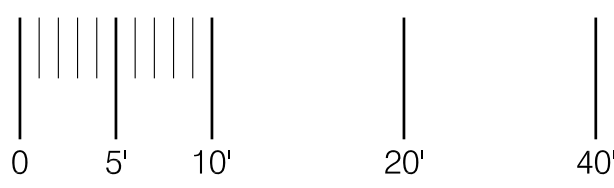
#	TITLE
--	COVER SHEET
X1.1	EXISTING CONDITIONS PLAN
E1.1	ELECTRICAL SITE PLAN
E1.2	ELECTRICAL SCHEDULE SHEET
L1.3	ELECTRICAL DETAIL SHEET
IR1.0	IRRIGATION & WATER LAYOUT PLAN
IR2.0	IRRIGATION DETAILS
IR2.1	WATER PLAY DETAILS
IR2.2	OUTDOOR CROSS CONNECTION DETAILS
L1.0	DEMOLITION & SITE PREP PLAN
L1.1	MATERIALS PLAN
L2.1	LAYOUT PLAN
L2.2	GRAPHICS & FURNISHING LAYOUT PLAN
L3.1	GRADING PLAN
L4.1	PLANTING PLAN
L5.1	SECTIONS
L6.1	PAVING DETAILS
L6.2	PARK DETAILS 1
L6.3	PARK DETAILS 2
L6.4	WALL & CURB DETAILS
L6.5	SITE FURNISHINGS
L6.6	PLAY DETAILS
L6.7	FENCE DETAILS
L6.8	PLANTING DETAILS 1
L6.9	PLANTING DETAILS 2
L7.1	PLATFORM PLANS
L7.2	PLATFORM ELEVATIONS
L7.3	PLATFORM SECTIONS
L7.4	PLATFORM DETAILS 1
L7.5	PLATFORM DETAILS 2
L7.6	DECK PLANS
L7.7	DECK DETAILS



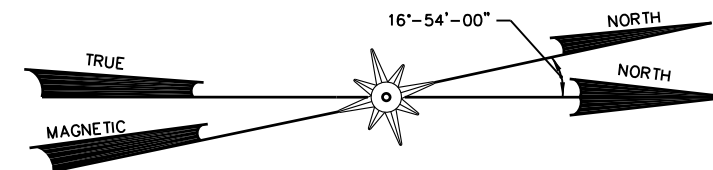
16 FEBRUARY 2017
BID SET

CALL "DIGSAFE" AT
LEAST 72 HOURS IN ADVANCE OF CONSTRUCTION AT
1-888-DIG-SAFE OR 1-888-344-7233

GRAPHIC SCALE : 1" = 10'



BENCHMARK
HYDRANT
TOP FLANGE BOLT CLOSEST
TO CENTRAL STREET
ELEV.=68.63



LEGEND

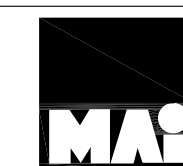
	BUILDING LINE
	PROPERTY LINE
	LINE OF COMMON OWNERSHIP
	ZONING DISTRICT LINE
	STREET LINE
	EASEMENT/RIGHT OF WAY
	EDGE OF PAVEMENT
	EDGE OF GRASS
	CURBING
	VERTICAL GRANITE CURB
	CONCRETE CURB
	FLUSH CONCRETE CURB
	CONCRETE BLOCK RETAINING WALL
	CONCRETE RETAINING WALL
	SANITARY SEWER LINE
	COMBINED SEWER LINE
	STORM DRAIN LINE
	WATER LINE
	GAS LINE
	ELECTRIC LINE
	SUB-DRAIN
	TELEPHONE LINE
	CABLE TV LINE
	STEAM LINE
	OVERHEAD WIRE
	CHAIN LINK FENCE
	VINYL CLAD C.L.F.
	WROUGHT IRON FENCE
	WOOD FENCE
	SEWER MANHOLE
	COMBINED SEWER MANHOLE
	DRAIN MANHOLE
	CATCH BASIN
	CABLE TV MANHOLE
	ELECTRIC MANHOLE
	PULL BOX
	UTILITY POLE
	LIGHT POLE
	WATER MANHOLE
	WATER GATE
	HYDRANT
	CURB STOP
	SIGN POST
	GAS GATE
	BOLLARD
	WOOD BENCH
	TRASH BARRELL
	RECYCLE BIN
	RECORD PLAN INFORMATION
	STONE BOUND
	FOUND
	RIM ELEVATION
	INVERT ELEVATION
	BITUMINOUS CONCRETE PAVEMENT
	CONTOUR
	SPOT GRADE
	TOP/BOTTOM OF CURB ELEV.
	TOP/BOTTOM OF WALL ELEV.
	CONCRETE RETAINING WALL
	CONCRETE BLOCK RETAINING WALL
	TREE
	LANDSCAPED AREA
	SHRUBS

SITE PLAN HOYT-SULLIVAN PLAYGROUND CENTRAL STREET SOMERVILLE, MA

PREPARED FOR
THE CITY OF SOMERVILLE

DATE: MARCH 8, 2016
DRAWN BY: GBP

SCALE: 1"=10'
JOB NO: 227.20



Mistery Associates, Inc.
315 Main Street
Reading, MA 01867
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REVISIONS:

REV	DATE	NOTE
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PROJECT: KMDG #1604

HOYT SULLIVAN PLAYGROUND

117 CENTRAL STREET
SOMERVILLE, MA 02145

DRAWING:

EXISTING CONDITIONS PLAN

PROVIDED BY CITY OF SOMERVILLE

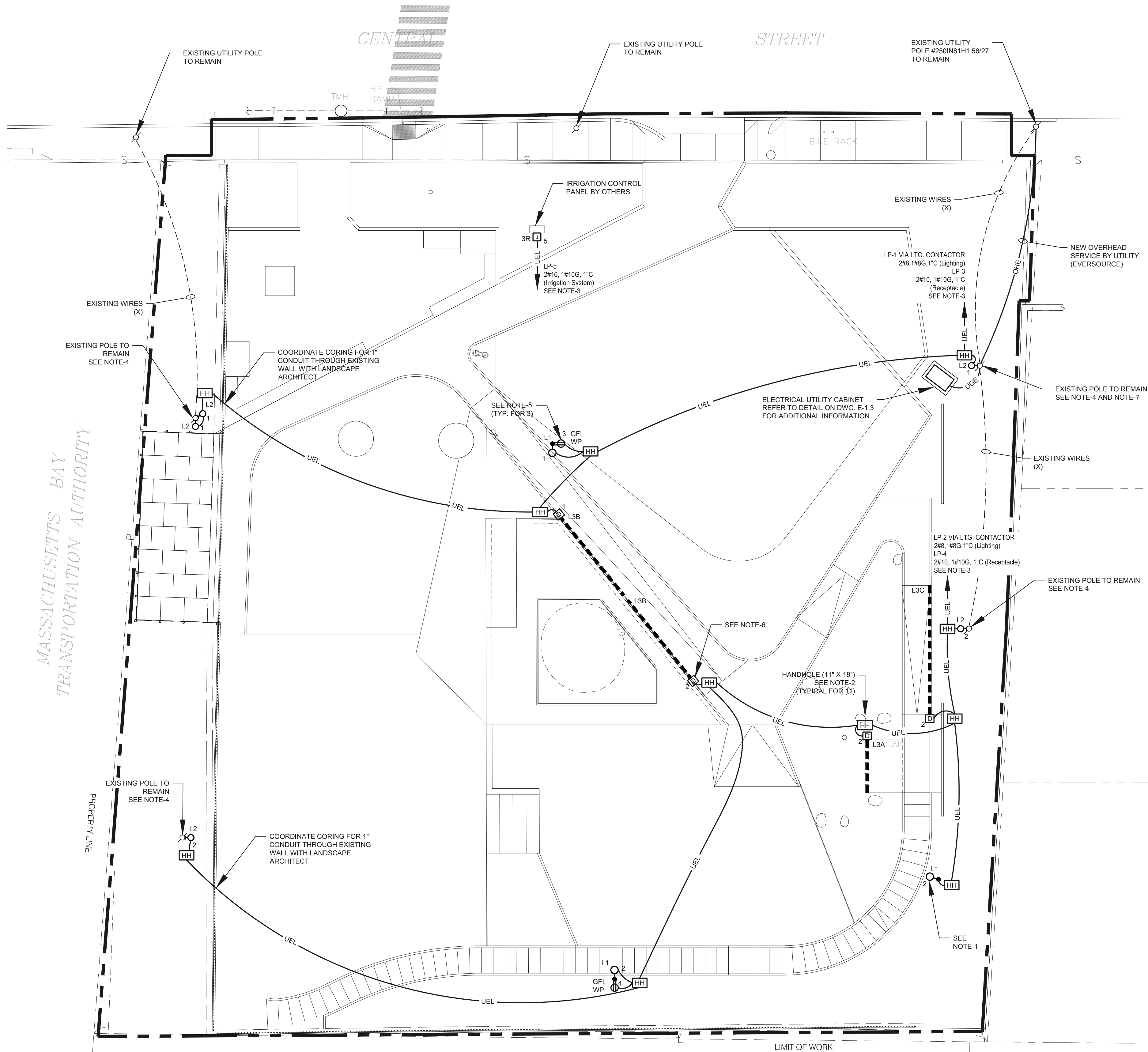
DRAWN:	REVIEW:
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SCALE:
1" = 10'-0"

DATE:
16 FEBRUARY 2017

SHEET:

X1.1



ELECTRICAL: Site Plan
SCALE: 1"=10'-0"

GENERAL DEMOLITION NOTES
(REFER TO ELECTRICAL SPECIFICATION 260000 FOR ADDITIONAL REQUIREMENTS)

1. VISIT THE SITE PRIOR TO SUBMISSION OF BID TO REVIEW THE AREAS AFFECTED BY THE PROJECT SCOPE. PROVIDE A WRITTEN REPORT TO THE OWNER/ ENGINEER DOCUMENTING ANY CONDITIONS WHICH MIGHT IMPACT COMPLETION OF THE INTENDED PROJECT SCOPE.
2. ANY/ ALL EQUIPMENT/ DEVICES DAMAGED DURING THE CONSTRUCTION EFFORT SHALL BE REPAIRED/ REPLACED BY THE CONTRACTOR.
3. EXISTING BRANCH AND FEEDER CIRCUITRY WITHIN THE PROJECT LIMITS SHALL BE TRACED AND LABELED PRIOR TO DISCONNECTION/ REMOVAL.
4. EXISTING RECEWAYS AND CONDUCTORS SCHEDULED FOR DEMOLITION SHALL BE REMOVED IN THEIR ENTIRETY FROM LOAD TO SOURCE. NO RACEWAYS AND/OR CONDUCTORS SHALL BE ABANDONED IN PLACE INCLUDING ANCILLARY COMPONENTS (e.g. JUNCTION BOXES, PULL BOXES).
6. ALL EXISTING EQUIPMENT/DEVICES SCHEDULED FOR DEMOLITION SHALL BE OFFERED TO THE OWNER UPON DISCONNECTION/REMOVAL. THE OWNER MAY ELECT TO RETAIN SALVAGEABLE ITEMS. UNDER THIS SCENARIO, THE CONTRACTOR SHALL TURN OVER THE IDENTIFIED ITEMS AS DIRECTED BY THE OWNER. ALL OTHER ITEMS SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR.

EXISTING EQUIPMENT DESIGNATIONS
(REFER TO GENERAL DEMOLITION NOTES)

(X) EXISTING EQUIPMENT / DEVICE SCHEDULED TO BE REMOVED - REMOVE CIRCUIT CONDUCTORS / CONDUIT BACK TO NEXT ACTIVE DEVICE, AND/OR BACK TO SOURCE

(XM) EXISTING EQUIPMENT / DEVICE SCHEDULED TO REMAIN

(XR) EXISTING EQUIPMENT/DEVICE SCHEDULED TO BE RELOCATED

(XL) EXISTING EQUIPMENT/DEVICE IN NEW LOCATION (AFTER RELOCATION)

EQUIPMENT / DEVICE LINEWEIGHT KEY

--- DASHED LIGHT / OUT-OF-FUNCTION LINETYPE INDICATES EXISTING EQUIPMENT / DEVICES SCHEDULED TO BE REMOVED - (X)

--- CONTINUOUS LIGHT / OUT-OF-FUNCTION LINETYPE INDICATES EXISTING EQUIPMENT / DEVICES SCHEDULED TO REMAIN, AND/OR TO BE RELOCATED - (XM), (XR), (XL)

--- CONTINUOUS DARK / IN-FUNCTION LINETYPE INDICATES NEW EQUIPMENT / DEVICES

SITE LIGHTING PLAN LEGEND

--- OHE --- OVERHEAD ELECTRIC

--- UGE --- UNDERGROUND ELECTRIC - SECONDARY

--- UEL --- UNDERGROUND ELECTRIC - LIGHTING

L1 LIGHTPOLE WITH ONE (1) LUMINAIRE
UPPERCASE TEXT: INDICATES LIGHTING FIXTURE TYPE
NUMERAL: INDICATES BRANCH CIRCUIT NUMBER

PC PHOTOCELL

TC TIME CLOCK

LC LIGHTING CONTACTOR

HH ELECTRICAL HANDHOLE

J JUNCTION BOX

DUPLEX RECEPTACLE - GROUNDING TYPE (NEMA 5-20R)

NUMERAL: INDICATES BRANCH CIRCUIT NUMBER
GFI: INDICATES GROUND FAULT CIRCUIT INTERRUPTER TYPE
WP: WEATHERPROOF

GENERAL SITE PLAN NOTES:

- a) ALL TRENCHING, EXCAVATING AND BACKFILL SHALL BE PROVIDED BY THE CONTRACTOR.
- b) UNDERGROUND CONDUITS SHALL TRANSITION FROM PVC SCHEDULE 40 TO RGS UPON EXIT / ENTRY FROM FINISHED GRADE. TRANSITION FROM PVC TO RGS SHALL BE MADE UNDERGROUND.
- c) CONTRACTOR SHALL STAKE THE LOCATION OF THE FIXTURES AND HANDHOLES FOR APPROVAL FROM LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

SITE PLAN NOTES:

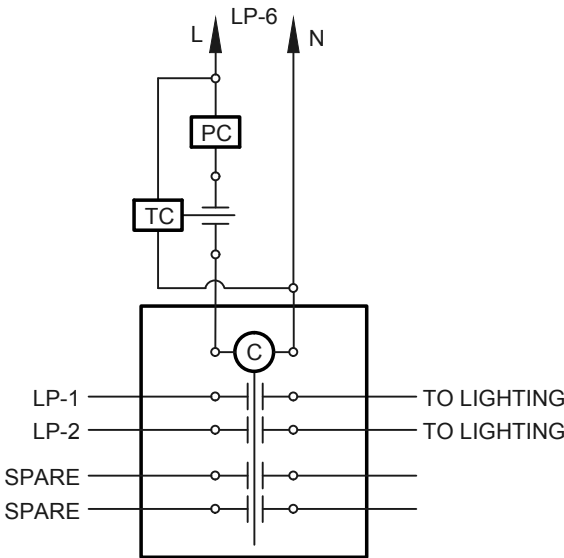
1. REFER TO SITE LIGHTING POLE BASE DETAIL ON DWG. E-1.3 FOR ADDITIONAL INFORMATION.
2. REFER TO PREFABRICATED HANDHOLE DETAIL ON DRAWING E-1.3 FOR ADDITIONAL INFORMATION.
3. CONDUCTORS SIZED TO ACCOMMODATE FOR VOLTAGE DROP.
4. DESIGN INTENT:
 - a) EXISTING SITE LIGHTING FIXTURE AND/OR EXISTING WIRES SCHEDULED TO BE REMOVED. NO WIRES, LIGHTS, AND/OR ACCESSORIES SHALL BE ABANDONED.
 - b) NEW LIGHTING FIXTURE SHALL BE MOUNTED ON EXISTING POLE.
5. PROVIDE TAMPER RESISTANT / GFCI RECEPTACLE HUBBELL HBL GFR5362SGW OR APPROVE EQUAL IN WEATHERPROOF LOW PROFILE METAL COVER AS MANUFACTURED BY HUBBELL TAYMAC MX4280S OR APPROVED EQUAL MOUNTED TO THE LIGHT POLE. EXACT MOUNTING HEIGHT TO BE COORDINATED WITH THE LANDSCAPE ARCHITECT.
6. LED TAPE DRIVER/TRANSFORMER. REFER TO LIGHTING FIXTURE SCHEDULE ON DRAWING E-1.2 FOR ADDITIONAL INFORMATION.
7. DESIGN INTENT: NEW ELECTRICAL SERVICE SHALL ORIGINATE FROM THE POLE INDICATED. COORDINATE WITH EVERSOURCE THE EXTENSION OF OVERHEAD SERVICE FROM EXISTING UTILITY POLE #250IN81H1 56/27.



REVISIONS:

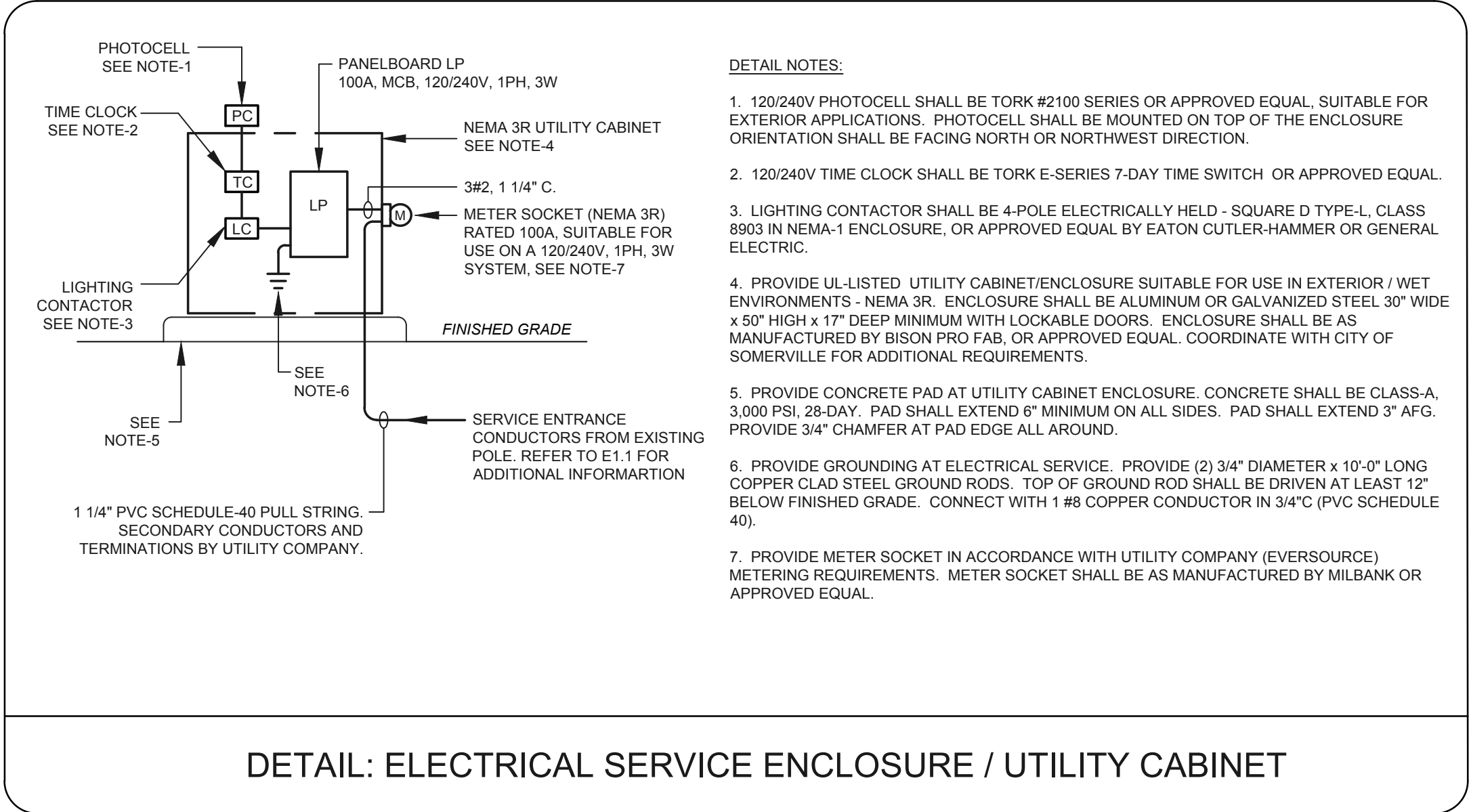
REV	DATE	NOTE

SCHEDULE OF PANELBOARDS																																				
PANEL	VOLTAGE	PHASE	WIRE	BUS	MCB	MLO	AIC	TOTAL POLES	MOUNTING	1-POLE					2-POLE BRANCH CIRCUIT BREAKERS						3-POLE BRANCH CIRCUIT BREAKERS										NOTES					
										15A	20A	30A	40A	50A	15A	20A	25A	30A	40A	50A	60A	15A	20A	25A	30A	40A	50A	60A	70A	80A		90A	100A	125A	150A	175A
LP	120/240V	1	3	100A	100A	---	22K	10	SURFACE		10																									NOTE-11
<div>GENERAL NOTES (applicable to all panelboards):</div> <div>a) PROVIDE MECHANICAL TERMINAL LUGS TO ACCOMMODATE FEEDER CIRCUITRY AS LISTED ON THE ONE-LINE POWER DIAGRAM FOR ALL TERMINATIONS.</div> <div>b) PANELBOARDS SHALL BE FULLY RATED.</div>										<div>SCHEDULE OF PANELBOARDS ABBREVIATION KEY:</div> <div>MCB - MAIN CIRCUIT BREAKER</div> <div>MLO - MAIN LUG ONLY</div> <div>AIC - MINIMUM INTERRUPTING RATING OF CIRCUIT BREAKERS</div> <div>GFCI - GROUND FAULT CIRCUIT INTERRUPTER</div> <div>AFCI - ARC FAULT CIRCUIT INTERRUPTER</div>										<div>SCHEDULE OF PANELBOARDS NOTES (as specifically indicated above):</div> <div>1. PROVIDE PANELBOARD WITH FEED-THROUGH LUGS.</div> <div>2. PROVIDE PANELBOARD WITH ISOLATED GROUND BUS.</div> <div>3. PROVIDE PANELBOARD WITH 200% RATED NEUTRAL BUS.</div> <div>4. PROVIDE PANELBOARD WITH TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS).</div> <div>5. PROVIDE CIRCUIT BREAKER WITH SHUNT TRIP AUXILIARY ATTACHMENT.</div> <div>6. BRANCH CIRCUIT BREAKER SHALL BE GFCI TYPE RATED 4-6 ma FOR PROTECTION OF PERSONNEL.</div> <div>7. BRANCH CIRCUIT BREAKER SHALL BE GFCI TYPE RATED 30 ma FOR PROTECTION OF EQUIPMENT.</div> <div>8. BRANCH CIRCUIT BREAKER SHALL BE AFCI TYPE.</div> <div>9. PROVIDE (1) 20A-1P, 120V CIRCUIT BREAKER WITH LOCKABLE HANDLE.</div> <div>10. PROVIDE NEMA 3R ENCLOSURE TYPE.</div> <div>11. PANELBOARD SHALL BE UL-LISTED SE-RATED SUITABLE FOR SERVICE ENTRANCE APPLICATIONS.</div>																

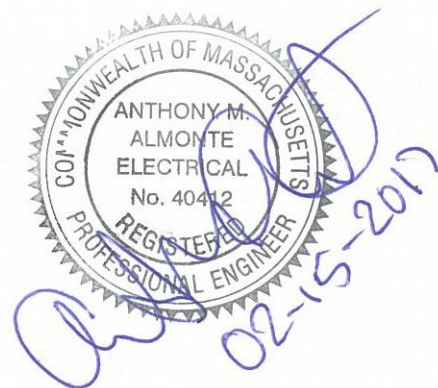


DETAIL: LIGHTING CONTACTOR

SCHEDULE OF LIGHTING FIXTURES											
TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMP DATA		BALLAST DATA		VOLTAGE	WATTS	MOUNTING	NOTES
				NO.	TYPE	NO.	TYPE				
L1	WE-EF LIGHTING	ASP534LED 655-3520 WITH 655-9370 (LUMINAIRE) 693-1223 (POLE)	SITE LIGHTING LED FIXTURE TYPE III MEDIUM	-	28W LED ARRAY	-	---	120V	28 W	12'-0" ON NEW POLE	NOTES-1 & 2
L2	WE-EF LIGHTING	FLC141LED 655-7426 WITH JB1 JUNCTION BOX	SURFACE MOUNTED LED FIXTURE	-	55W LED ARRAY	-	---	120V	55 W	20'-0" ON EXISTING POLE	NOTES-1 & 2
L3A	OPTIC ARTS LIGHTING	FLEX DC 44 WITH CHW-S-2010 MOUNTING CHANNELS GG100E-24-UNV-010V DRIVER	SURFACE MOUNTED FLEXIBLE LED TAPE FIXTURE 9'-0"	-	4.4W / FT LED TAPE	-	---	120V	40 W	SURFACE	NOTES-1, 2, 3
L3B	OPTIC ARTS LIGHTING	FLEX DC 44 WITH CHW-S-2010 MOUNTING CHANNELS GG100E-24-UNV-010V DRIVER	SURFACE MOUNTED FLEXIBLE LED TAPE FIXTURE 17'-0"	-	4.4W / FT LED TAPE	-	---	120V	75 W	SURFACE	NOTES-1, 2, 3
L3C	OPTIC ARTS LIGHTING	FLEX DC 44 WITH CHW-S-2010 MOUNTING CHANNELS GG100E-24-UNV-010V DRIVER	SURFACE MOUNTED FLEXIBLE LED TAPE FIXTURE 22'-0"	-	4.4W / FT LED TAPE	-	---	120V	96.8 W	SURFACE	NOTES-1, 2, 3
<div>GENERAL NOTES (for all lighting fixtures):</div> <div>a) LIGHTING FIXTURES LISTED ABOVE ESTABLISH THE PROPOSED LEVEL OF QUALITY. ANY/ALL PROPOSED LIGHTING FIXTURE SUBSTITUTIONS SHALL BE AN APPROVED EQUAL.</div> <div>b) PROVIDE ALL ACCESSORIES AND HARDWARE TO ACCOMMODATE MOUNTING REQUIREMENTS.</div>											
<div>SCHEDULE OF LIGHTING FIXTURE NOTES (as specifically indicated above):</div> <div>1. FIXTURE AND ASSOCIATED ACCESSORIES SHALL BE UL-LISTED WET LOCATION FOR INSTALLATION IN WET/EXTERIOR ENVIRONMENTS. COORDINATE EXACT LOCATION, MOUNTING HEIGHT AND LIGHTING FIXTURE AIMING IN FIELD WITH LANDSCAPE ARCHITECT.</div> <div>2. COORDINATE FINISH/COLOR WITH LANDSCAPE ARCHITECT.</div> <div>3. COORDINATE EXACT LOCATION OF LED TAPE AND NEMA 3R DRIVER/TRANSFORMER ENCLOSURE IN THE FIELD WITH LANDSCAPE ARCHITECT PRIOR TO ROUGH-IN. LED TAPE LENGTH IS APPROXIMATE, ADJUST IN FIELD AS NECESSARY.</div>											



DETAIL: ELECTRICAL SERVICE ENCLOSURE / UTILITY CABINET



CLIENT:
**CITY OF SOMERVILLE,
MASSACHUSETTS**

DIRECTOR OF PARKS AND OPEN SPACE
ARN FRANZEN
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afranzen@somervillema.gov

REVISIONS:

REV	DATE	NOTE

PROJECT: KMDG #1604

**HOYT SULLIVAN
PLAYGROUND**

117 CENTRAL STREET
SOMERVILLE, MA 02145

DRAWING:

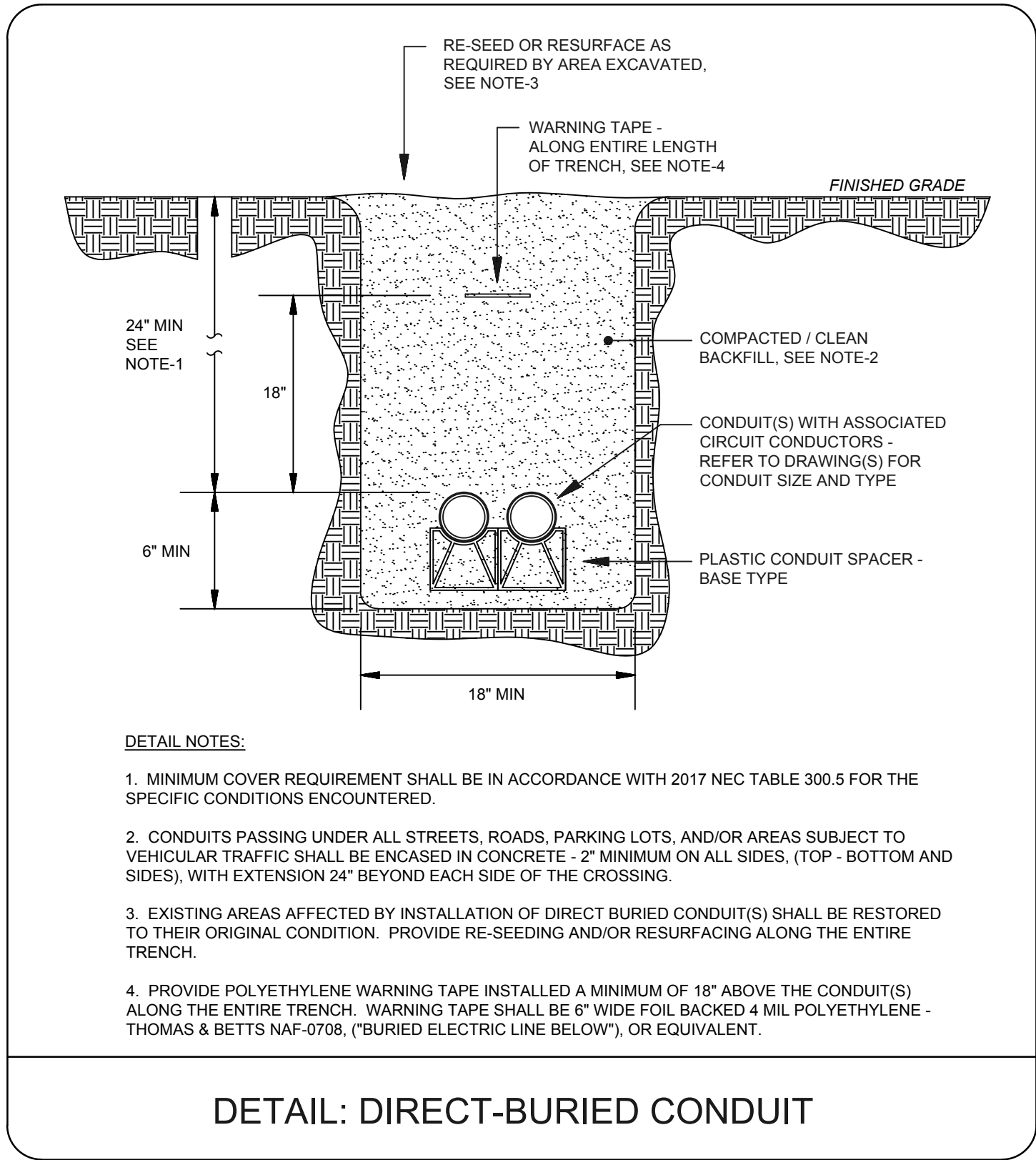
**ELECTRICAL
DETAIL SHEET**

DRAWN:	REVIEW:
EP	AMA

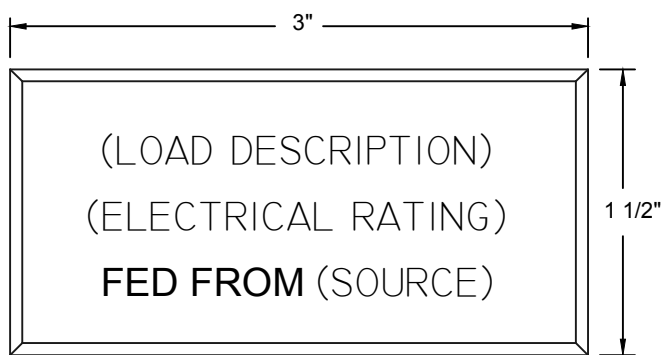
SCALE:
N.T.S.

DATE:
16 FEBRUARY 2017

SHEET:



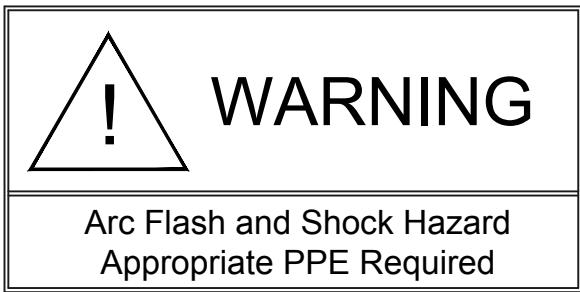
DETAIL: DIRECT-BURIED CONDUIT



TYPICAL EQUIPMENT NAMEPLATE DETAIL

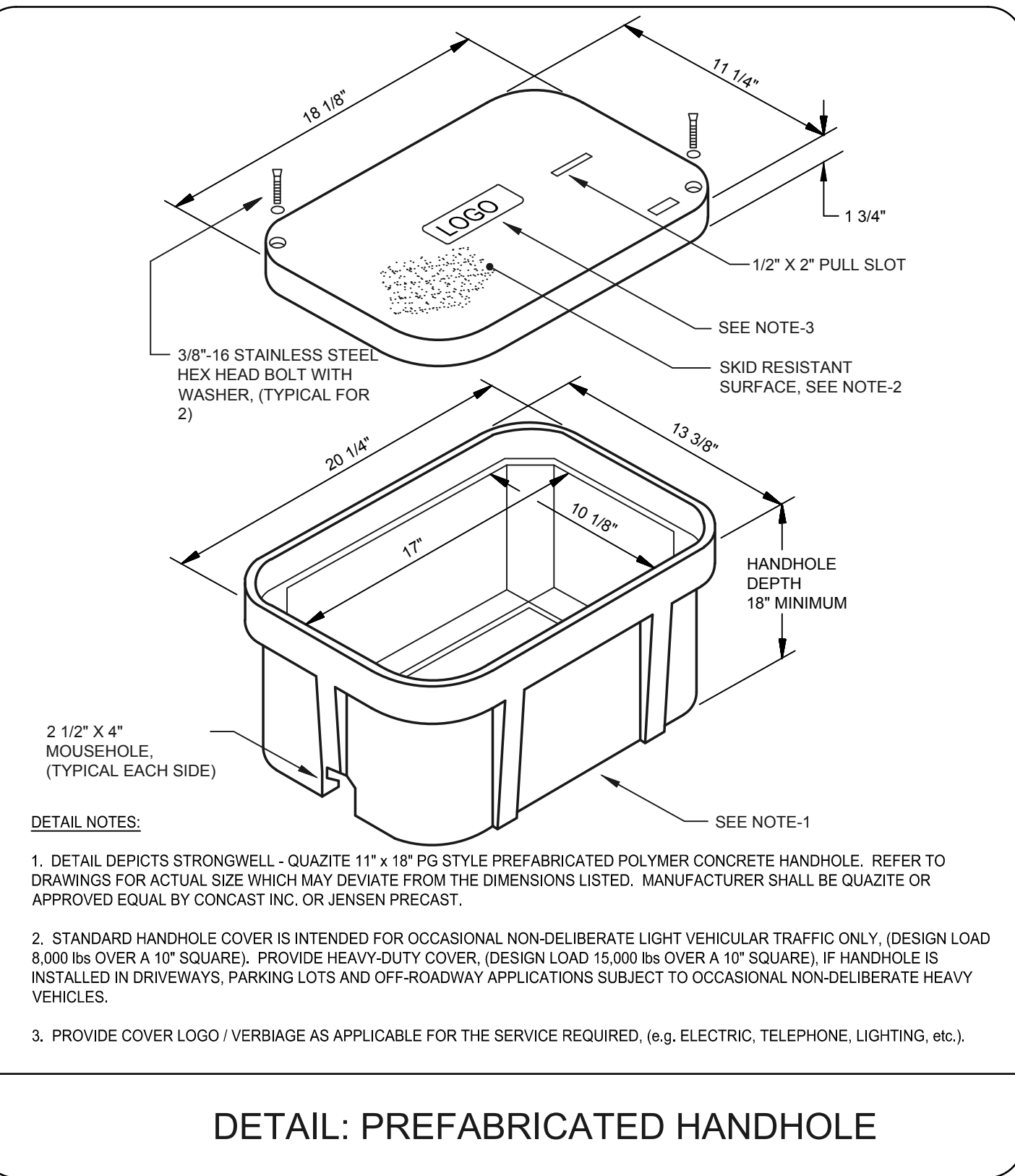
- NAMEPLATE NOTES:
1. PROVIDE EQUIPMENT NAMEPLATE ON ALL SWITCHBOARDS, PANELBOARDS, DISCONNECT SWITCHES, MOTOR STARTERS, VFD'S AND SPECIAL PURPOSE RECEPTACLES (AS APPLICABLE).
 2. EQUIPMENT NAMEPLATES SHALL BE BLACK - 1/16" THICK PLASTIC, WITH WHITE CENTER LAMINATION. ENGRAVED VERBIAGE/TEXT SHALL BE WHITE. TEXT LETTERS SHALL BE 1/4" TALL MINIMUM.
 3. SECURE NAMEPLATE TO EQUIPMENT SURFACE WITH ADHESIVE CEMENT FOR INTERIOR LOCATIONS, AND BRASS SCREWS FOR EXTERIOR LOCATIONS.

DETAIL: EQUIPMENT NAMEPLATES & LABELS

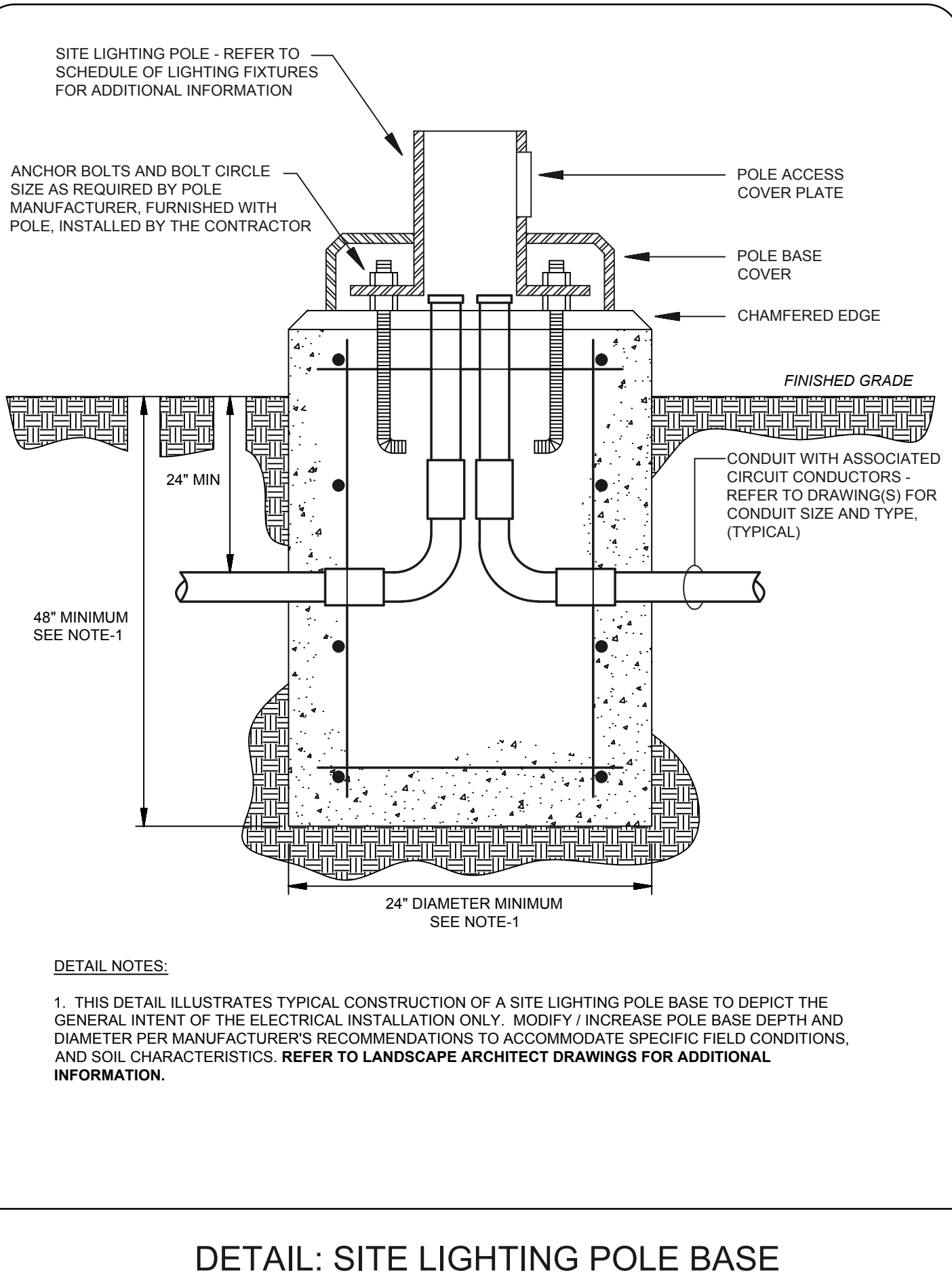


TYPICAL FLASH PROTECTION WARNING LABEL

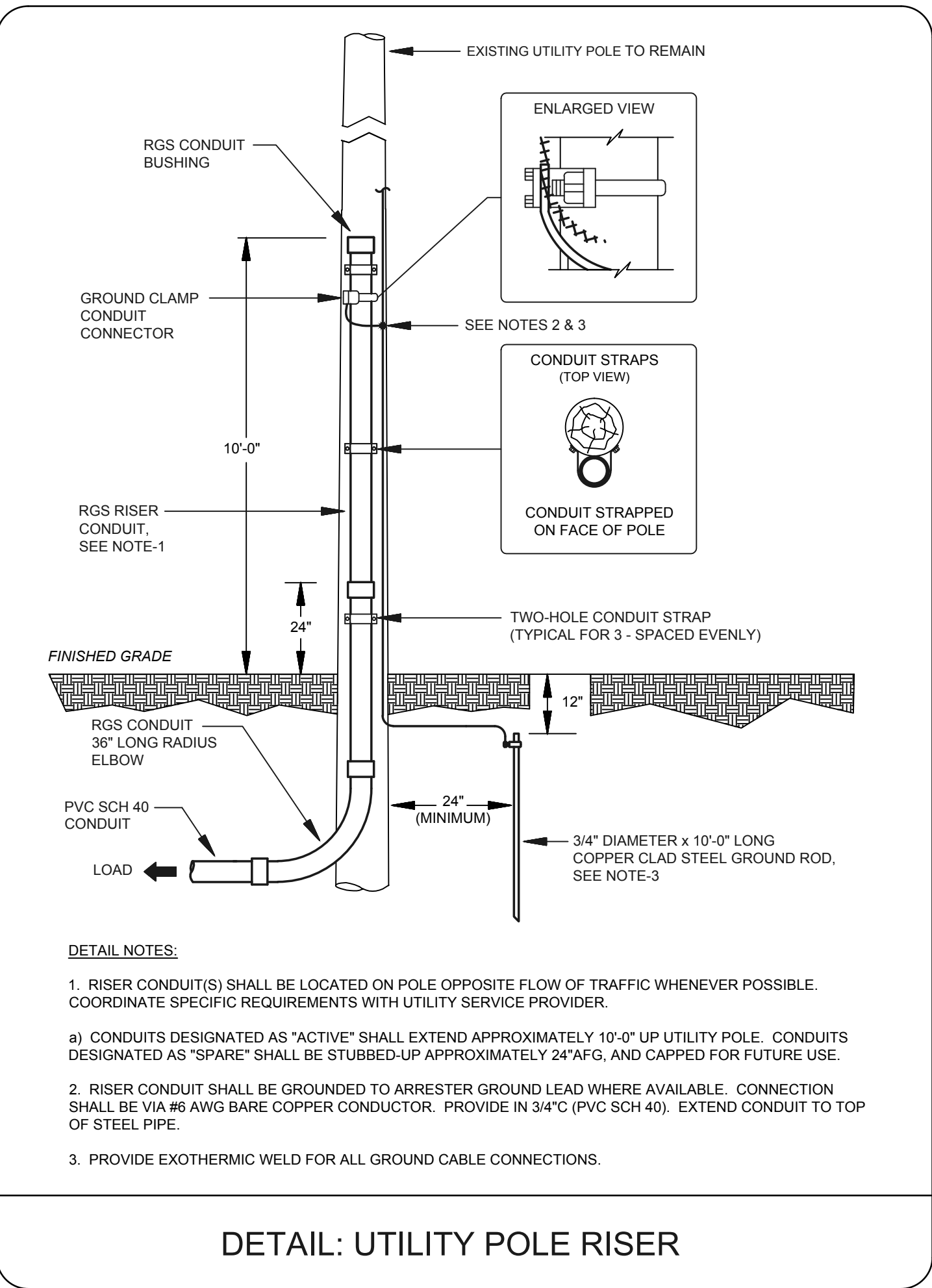
- WARNING LABEL NOTES:
1. PROVIDE ON ALL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH 2017 NEC ARTICLE 110.16.
 2. FLASH PROTECTION WARNING LABEL SHALL BE ADHESIVE STICKER/LABEL.



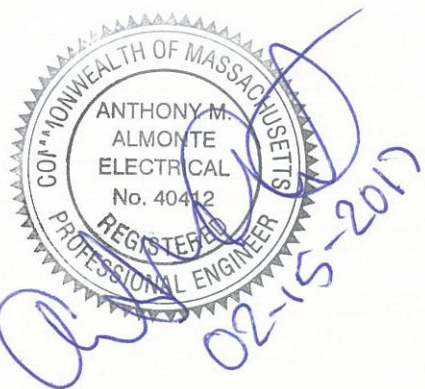
DETAIL: PREFABRICATED HANDHOLE



DETAIL: SITE LIGHTING POLE BASE



DETAIL: UTILITY POLE RISER



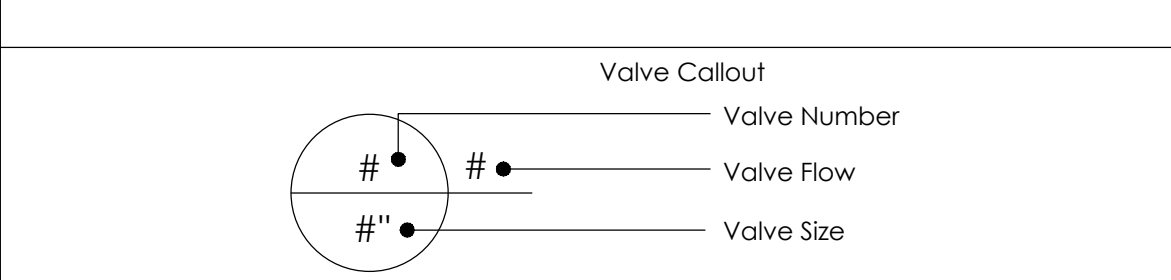
- IRRIGATION NOTES
- SEE IRRIGATION DETAILS AND SPECIFICATIONS SECTION 328400 FOR ADDITIONAL REQUIRED INFORMATION.
 - COORDINATE FINAL LOCATION OF SPRINKLERS, NOZZLES, AND DRIP IRRIGATION WITH FINAL APPROVED LANDSCAPE.
 - ALL PIPE AND VALVE LOCATIONS ARE DIAGRAMMATIC FOR CLARITY; CONTRACTOR SHALL FIELD VERIFY.
 - SPECIFIED VALVE BOX LOCATIONS SHALL BE APPROVED BY LANDSCAPE ARCHITECT AND/OR OWNER'S REPRESENTATIVE
 - ALL CONTROL WIRE SHALL BE 14AWG 24VAC GROUNDED IN ACCORDANCE WITH MANUFACTURER.
 - IRRIGATION SYSTEM AIS DESIGNED FOR MUNICIPAL WATER SUPPLY TO PROVIDE 20 GPM MAXIMUM FROM EXISTING STREET SERVICE. SYSTEM TO PRODUCE 100-PSI STATIC PRESSURE FROM STREET AS PER SOMERVILLE WATER DEPARTMENT. CONTRACTOR SHALL TEST DYNAMIC PRESSURE BEFORE STARTING WORK AND REPORT ANY DEVIATION TO THE OWNER'S REPRESENTATIVE BEFORE CONTINUING.
 - INSTALL NEW CONTROLLER IN PEDESTAL ON CONCRETE PAD OUTDOORS AS DIRECTED BY OWNER'S REPRESENTATIVE, HARD WIRE TO 120 VOLT, DEDICATED 20-AMP CIRCUIT, POWER SUPPLY USING LICENSED ELECTRICIAN. ROUTE ALL VALVE WIRES TO CONTROLLER VIA 2-INCH CONDUIT THROUGH CONCRETE PAD.
 - ALL ABOVE GROUND WIRING SHALL BE INSTALLED IN RIGID, METALLIC CONDUIT FOR VANDALISM PROTECTION.
 - COORDINATE LOCATION OF ALL EXISTING AND FUTURE UTILITIES ON SITE, CONTACT PROPER AUTHORITIES AND UTILITY COMPANIES BEFORE THE START OF WORK.
 - FLUSH ALL LATERAL LINES BEFORE INSTALLING SPRINKLERS AND DRIP IRRIGATION.
 - CONTRACTOR MUST SUBMIT PRODUCT SUBMITTALS AND CATALOG CUTS AS PER THE WRITTEN SPECIFICATIONS TO THE IRRIGATION CONSULTANT FOR APPROVAL PRIOR TO ORDERING MATERIAL AND BEGINNING WORK.
 - MATERIAL SUBSTITUTIONS WHICH VARY FROM THE SPECIFIED PRODUCTS MUST BE SUBMITTED TO THE IRRIGATION CONSULTANT FOR APPROVAL AS PART OF THE SUBMITTAL PROCESS.
 - 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.
 - FINAL LOCATION AND CONFIGURATION OF BACKFLOW PREVENTER AND WATER METER SHALL BE APPROVED BY OWNER'S REPRESENTATIVE AND PER LOCAL WATER DEPARTMENT.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY
	12-Inch Pop-Up with Check Valve, 30 psi 5' strip spray	3
	12-Inch Pop-Up with Check Valve, 30 psi 5' radius	3
	12-Inch Pop-Up with Check Valve, 30 psi 8' radius	8
	12-Inch Pop-Up with Check Valve, 30 psi 9' strip spray	13
	12-Inch Pop-Up with Check Valve, 30 psi 10' radius	29
	12-Inch Pop-Up with Check Valve, 30 psi 12' radius	16
	12-Inch Pop-Up with Check Valve, 30 psi 15' radius	4
	12-Inch Pop-Up with Check Valve, 30 psi adjustable	15

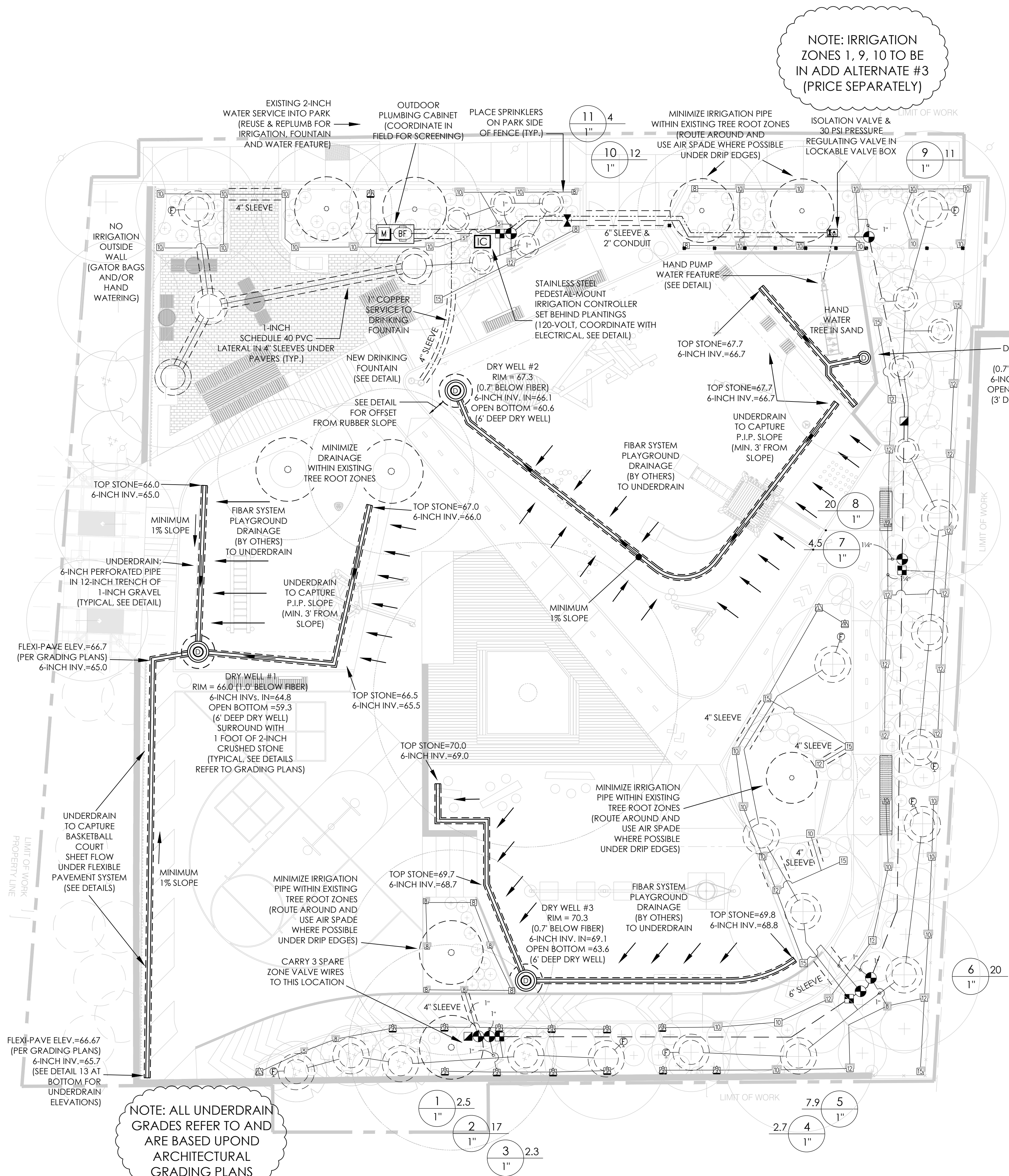
SYMBOL	MANUFACTURER/MODEL	QTY
	Drip Zone Kit with Filter	4
	Automatic Flush Valve	9
	Double Drip Rings for Trees Netafirm TLDL 0.9 gal/hour, 12-inch spacing	1,000 lf

SYMBOL	MANUFACTURER/MODEL	QTY
	Electric Zone Valve with Filter Sentry/Scrubber	7
	Quick Coupling Valve with 40 psi Pressure Regulator	3
	Isolation Gate Valve	2
	Hand Pump Pressure Regulator (from Manufacturer)	1
	Backflow Preventers (See Detail for Sizes)	3
	16-Zone Conventional Wire Controller	1
	Internet/Cellular Communications Package	1
	Water Meter (per City of Somerville)	1
	Irrigation Lateral Line: Polyethylene Pipe SDR-7 1"	1,200 l.f.
	Irrigation Mainline: Schedule 40 PVC 1 1/2"	300 l.f.
	Pipe Sleeve: PVC Class 160 SDR 26	120 l.f.



IRRIGATION VALVE WIRE SCHEDULE

NUMBER	WIRE TYPE	ZONE	LENGTH
1	14AWG Valve Wire	Shrub Spray	275'
2	14AWG Valve Wire	Shrub Spray	275'
3	14AWG Valve Wire	Tree Drip	275'
4	14AWG Valve Wire	Tree Drip	212'
5	14AWG Valve Wire	Shrub Spray	212'
6	14AWG Valve Wire	Shrub Spray	212'
7	14AWG Valve Wire	Tree Drip	140'
8	14AWG Valve Wire	Shrub Spray	140'
9	14AWG Valve Wire	Shrub Spray	85'
10	14AWG Valve Wire	Shrub Spray	22'
11	14AWG Valve Wire	Tree Drip	22'
3 Spares	14AWG Valve Wire	Spares	825'
	14AWG Common Wire		280'
Total 14AWG Wire			2,975 feet



OVERALL PROJECT PLAN
Scale 1" = 30'

811
Know what's below.
Call before you dig.

IRRIGATION DESIGN BY:

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REVISIONS:

REV	DATE	NOTE

PROJECT: KMDG #1604

HOYT SULLIVAN PLAYGROUND
117 CENTRAL STREET
SOMERVILLE, MA 02145

DRAWING:

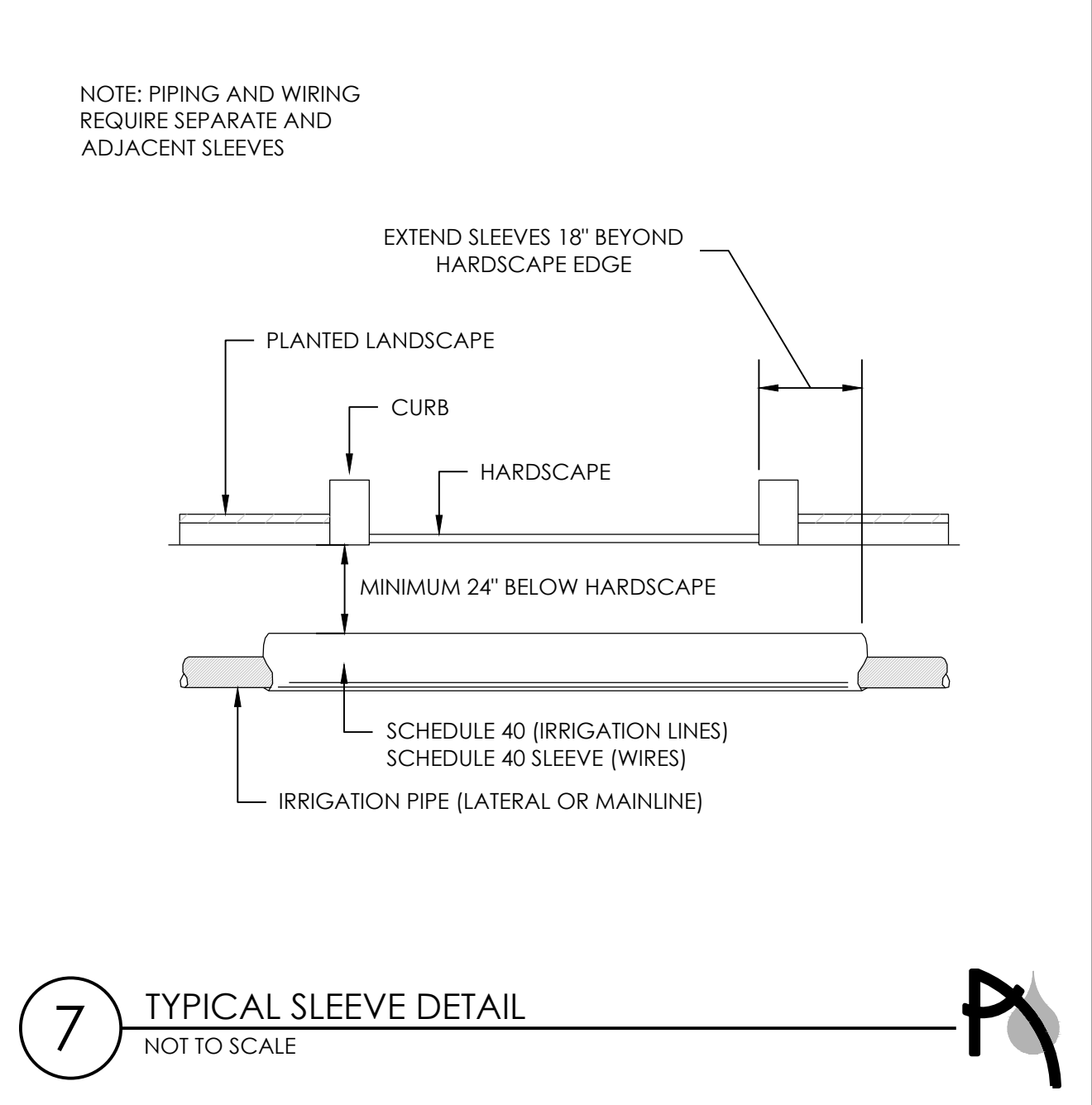
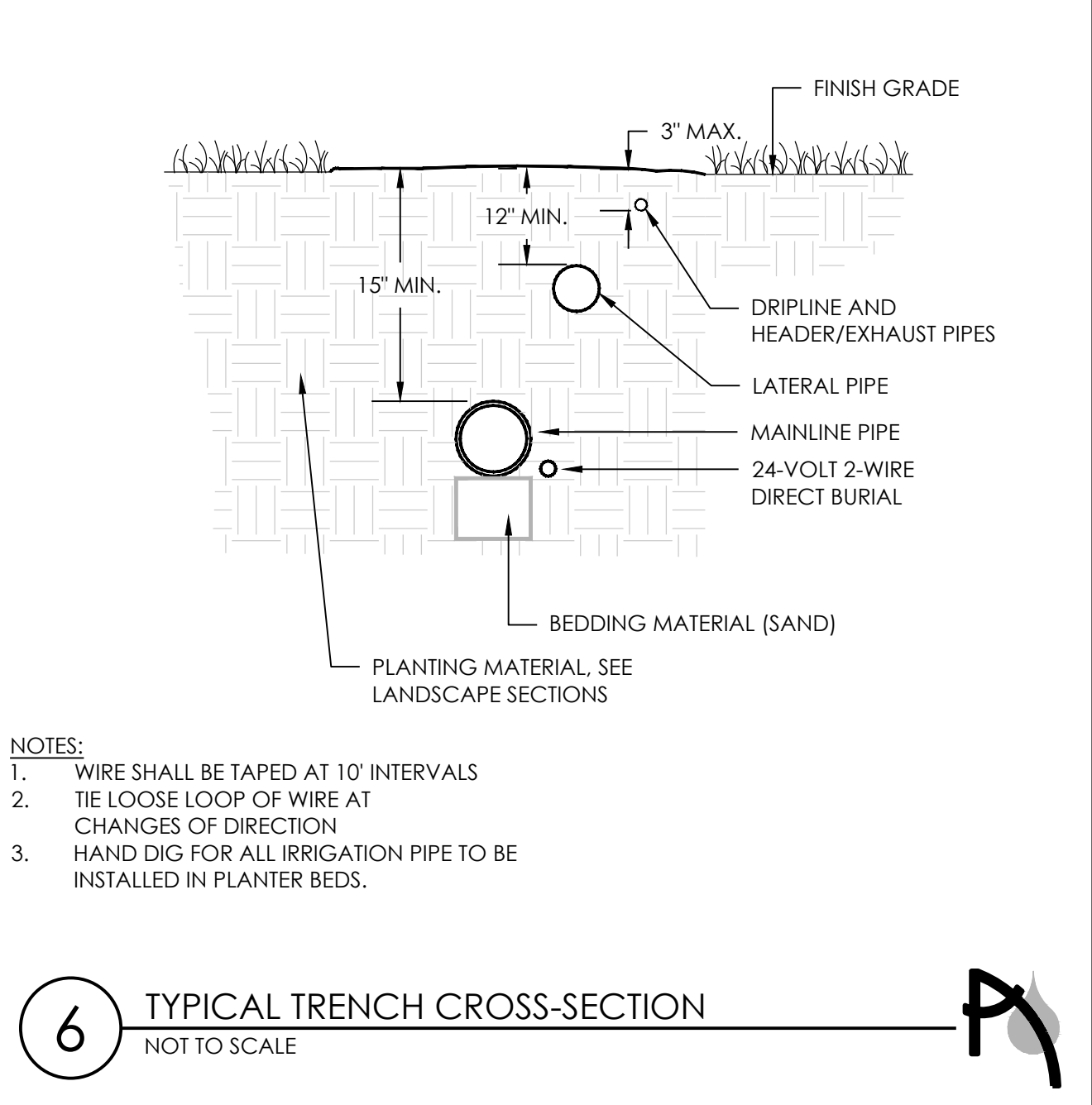
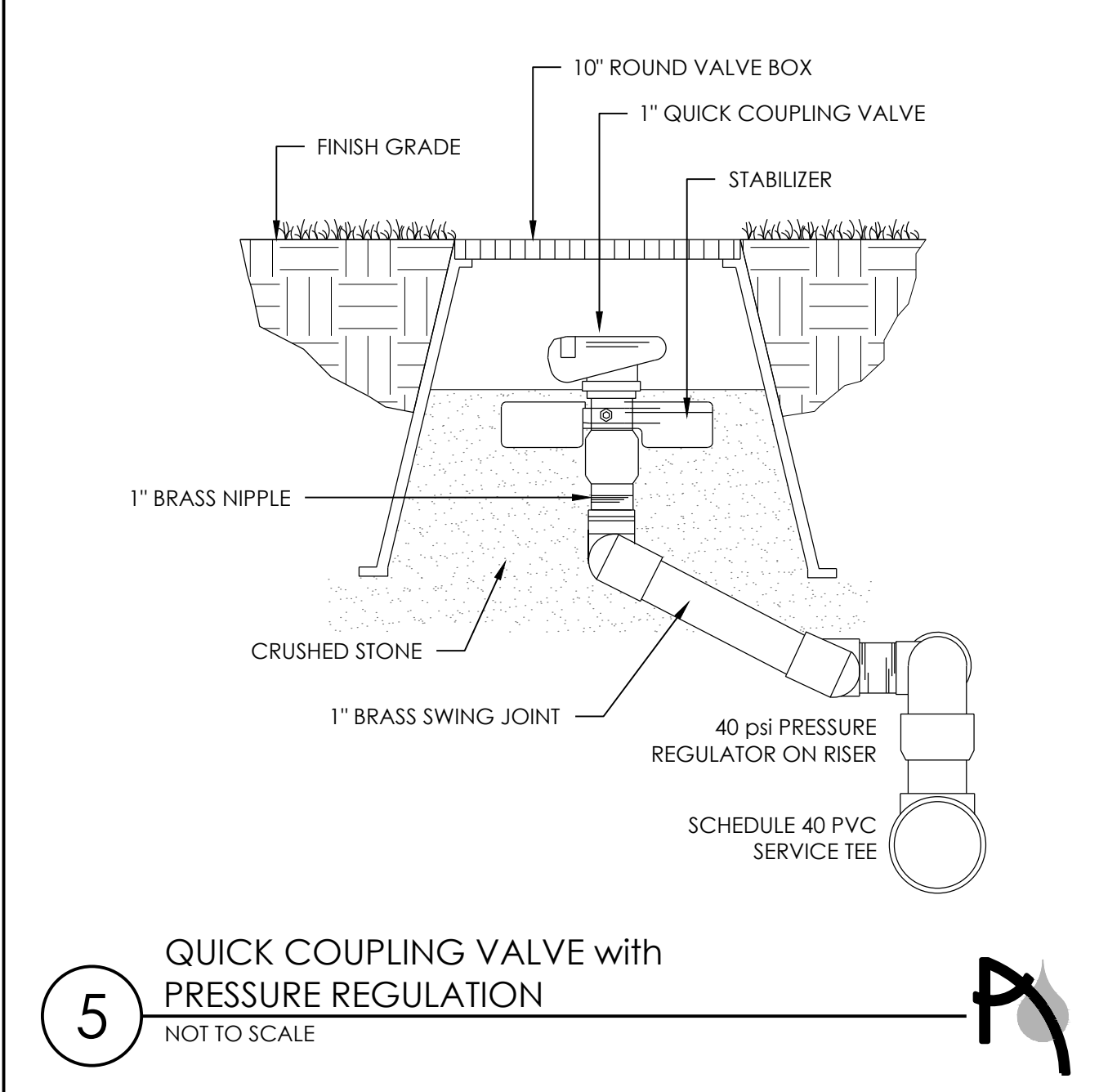
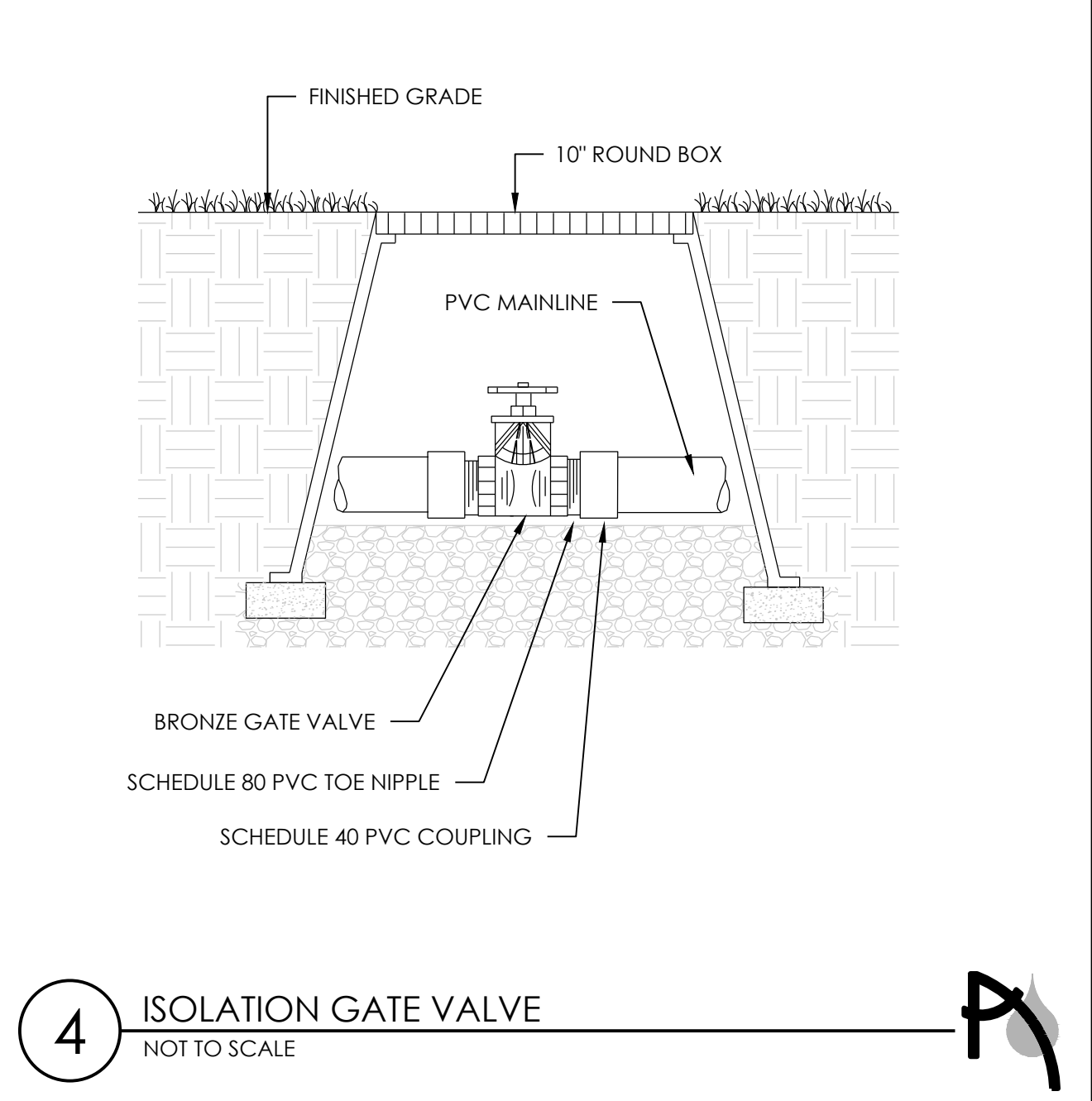
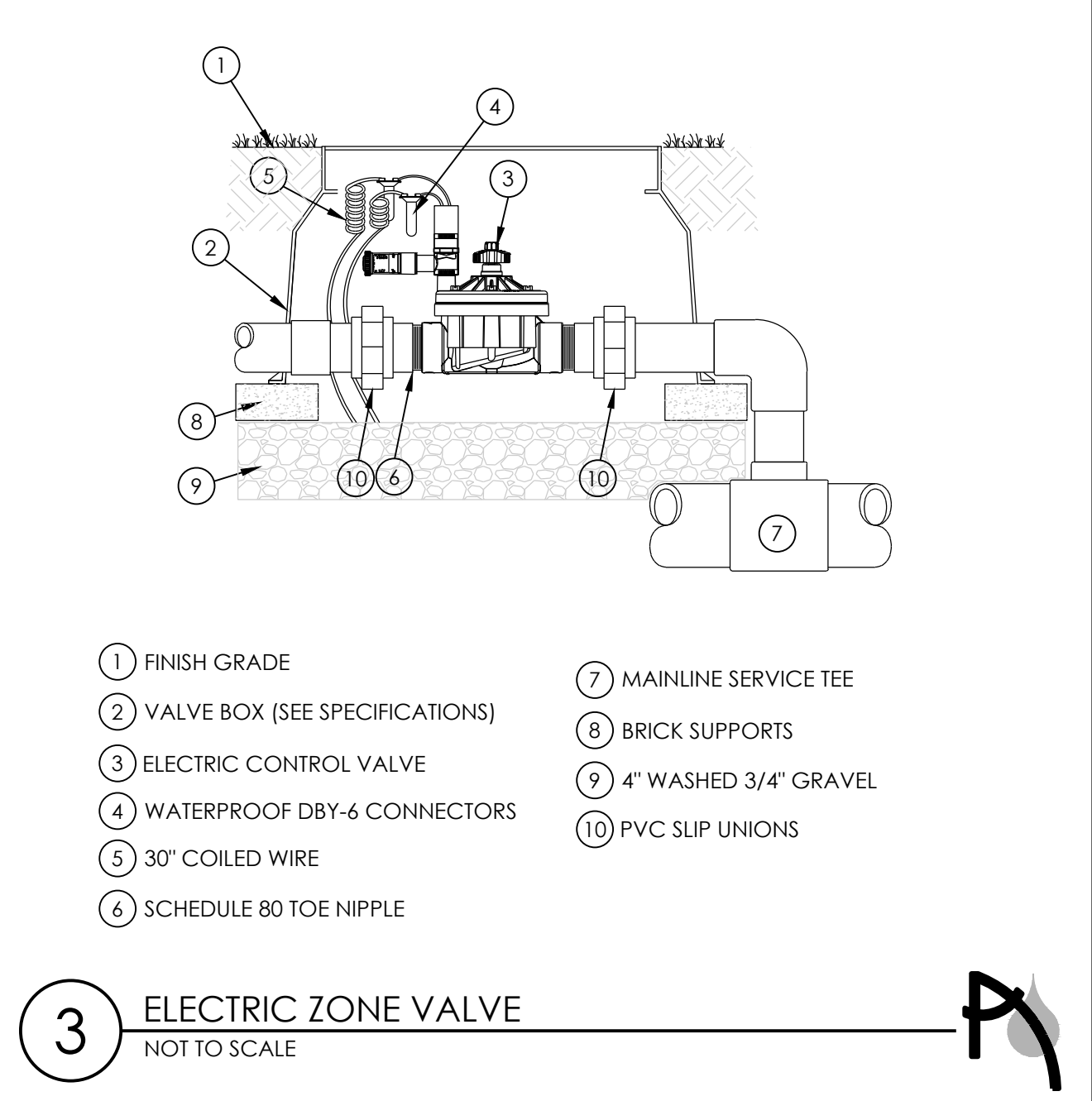
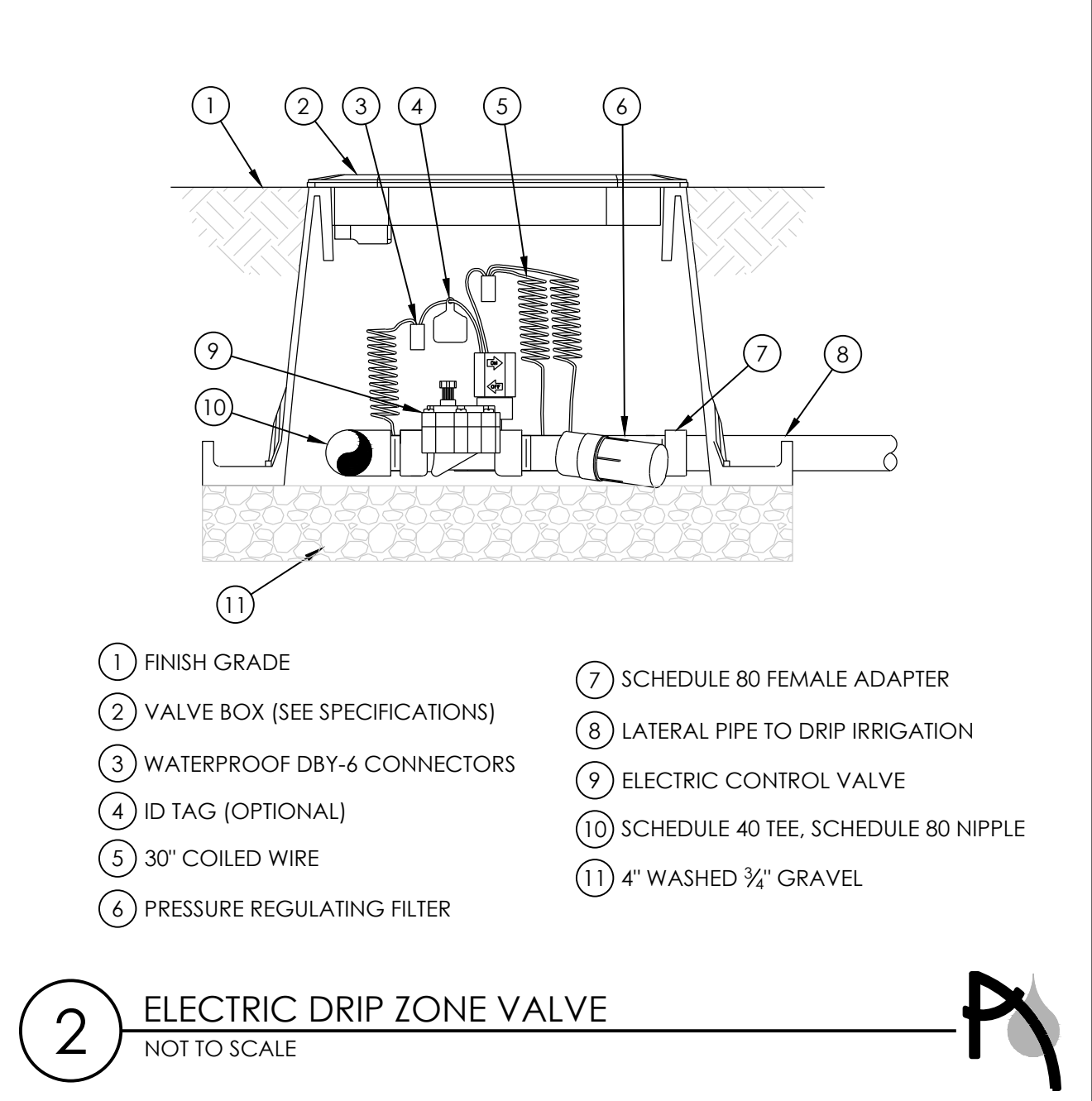
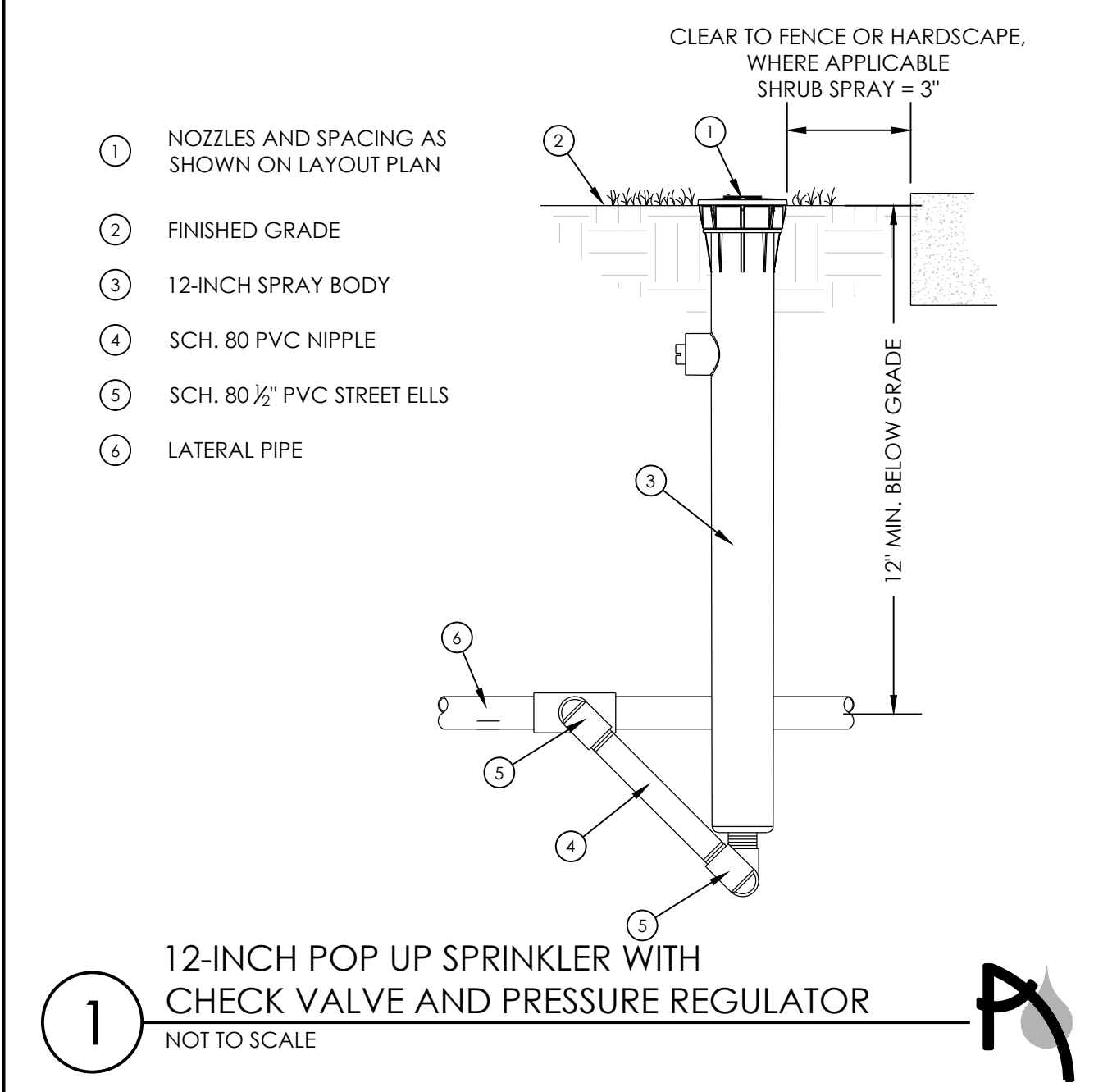
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SCALE:
1" = 10'-0"

DATE:
16 FEBRUARY 2017

SHEET:

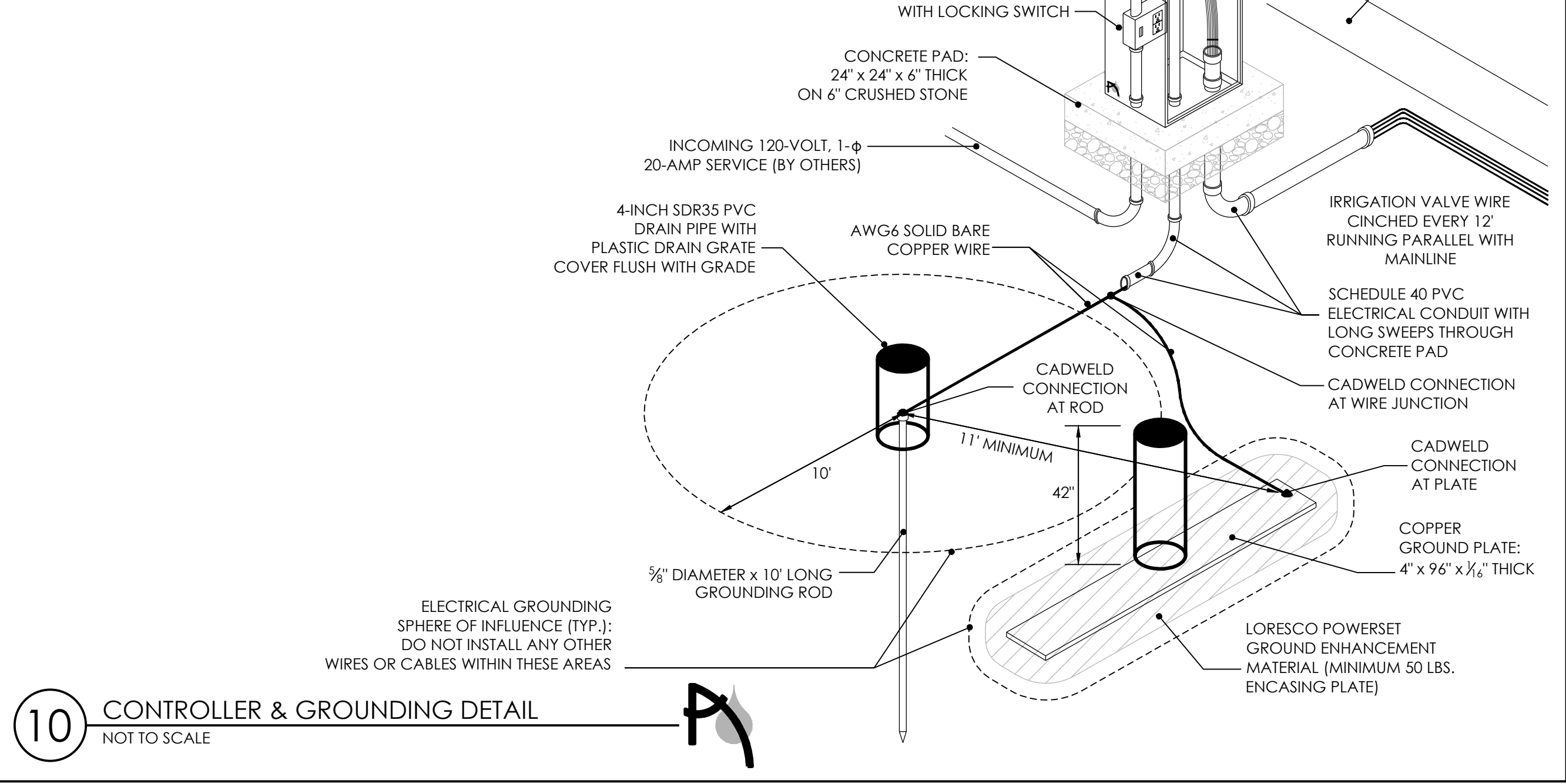
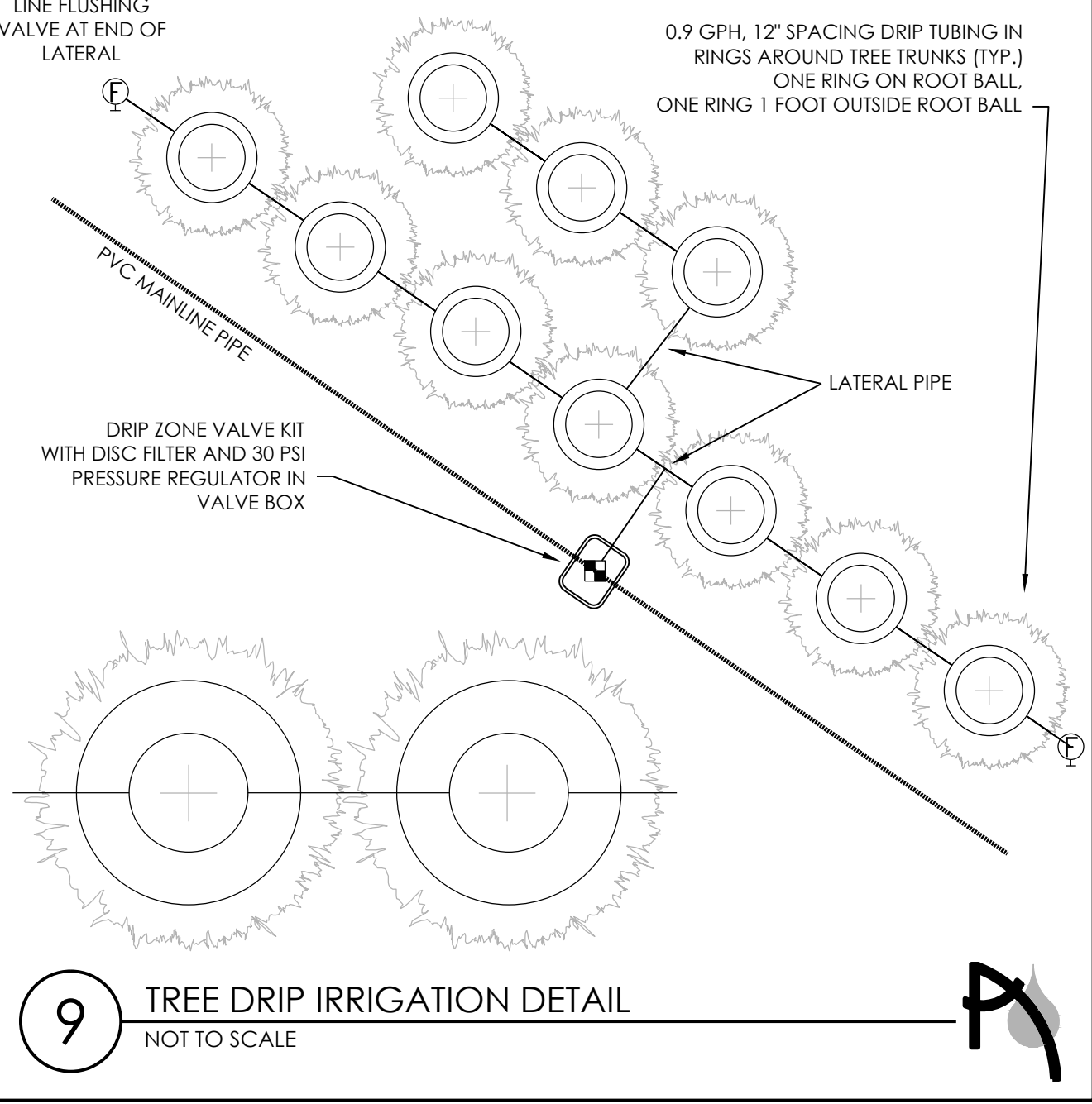
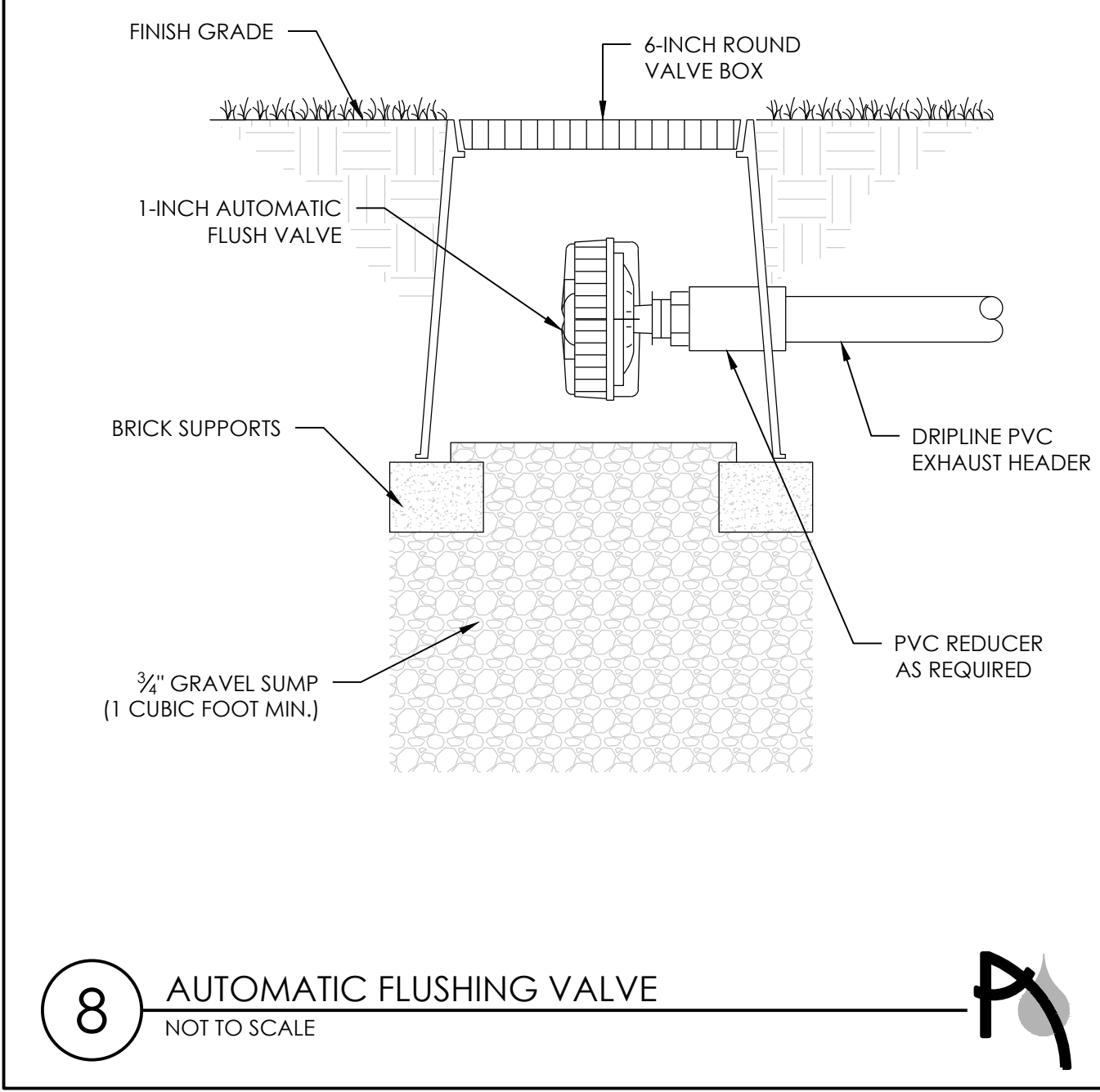
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REVISIONS:

REV	DATE	NOTE

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HOYT SULLIVAN PLAYGROUND
117 CENTRAL STREET
SOMERVILLE, MA 02145

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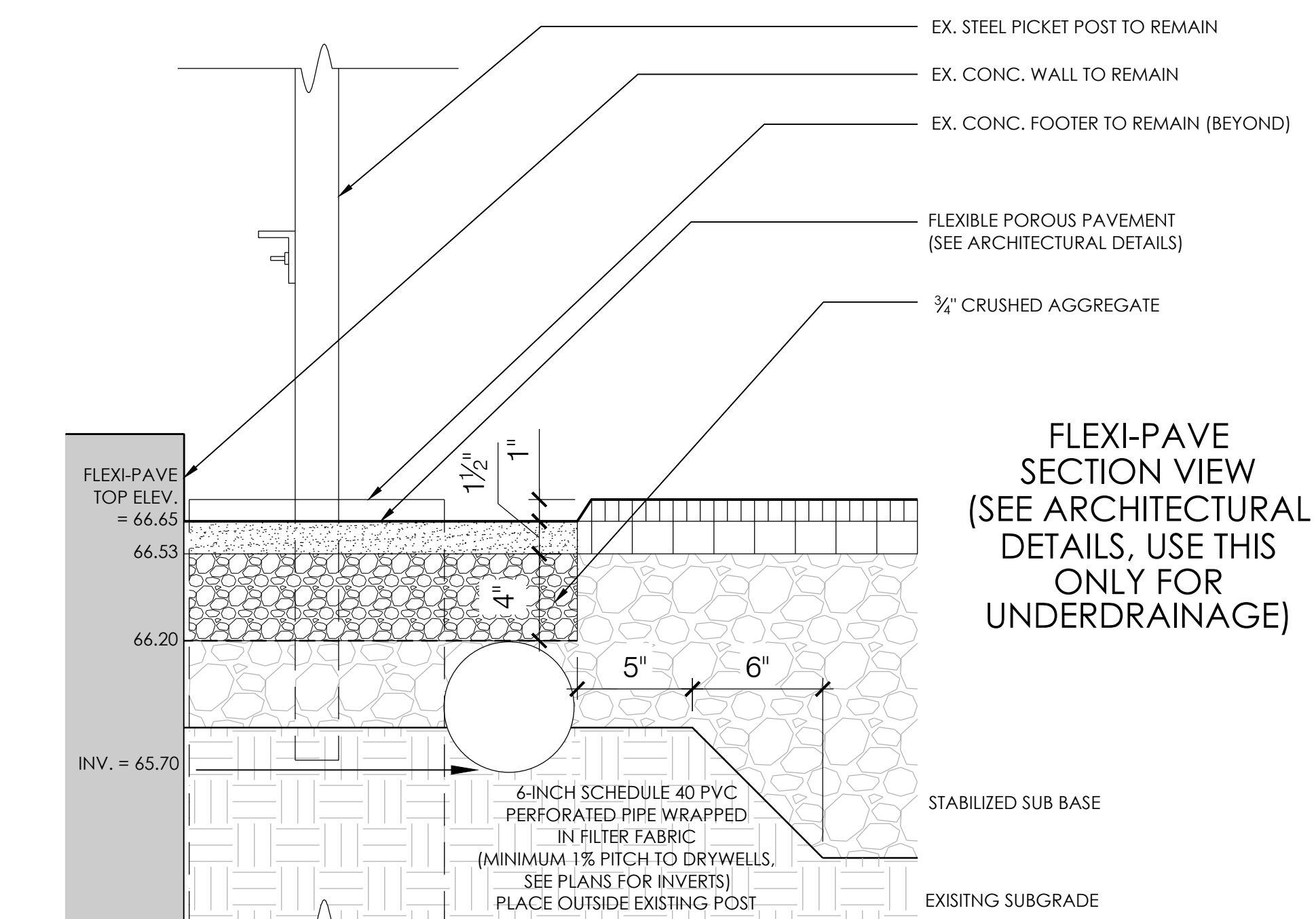
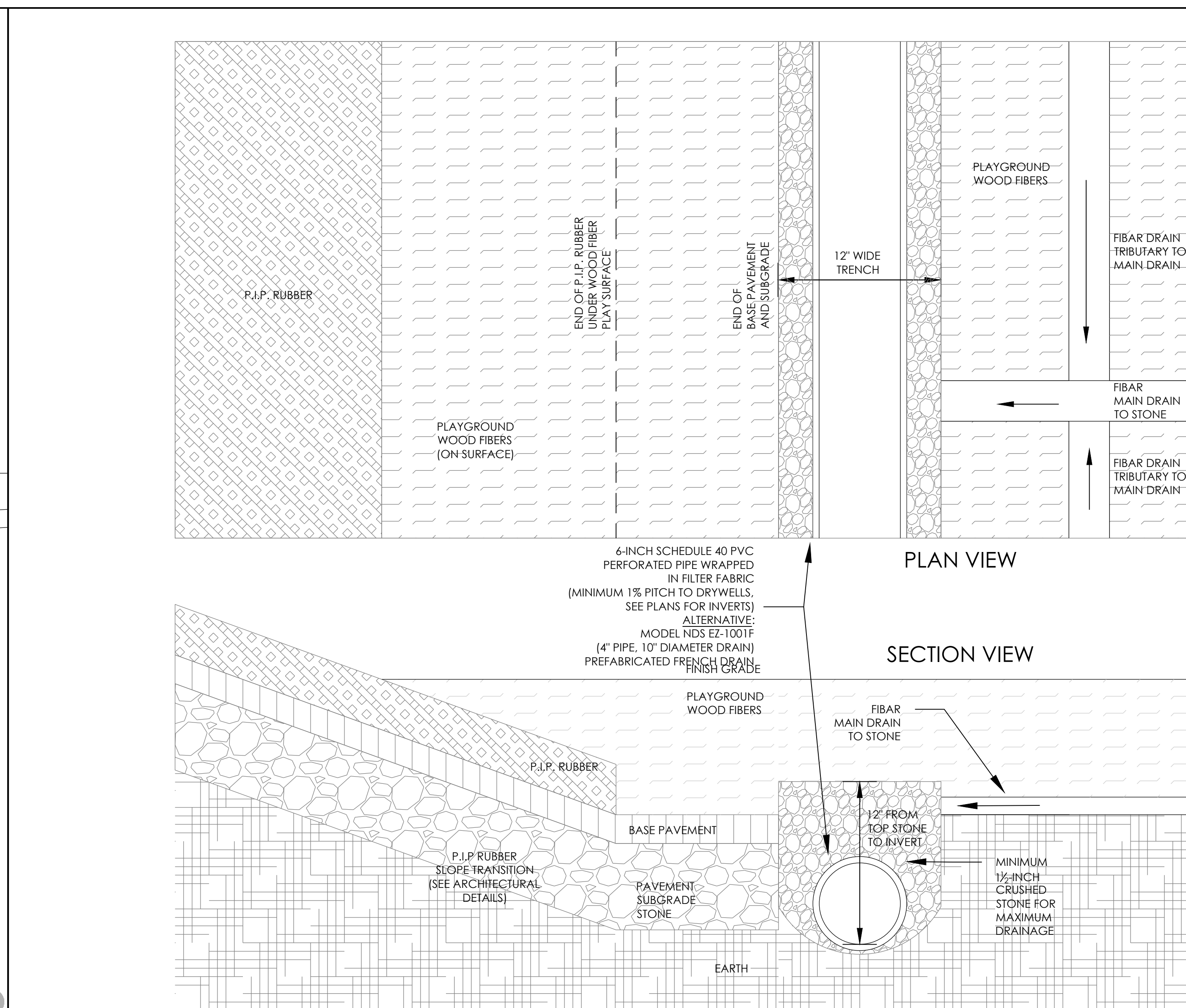
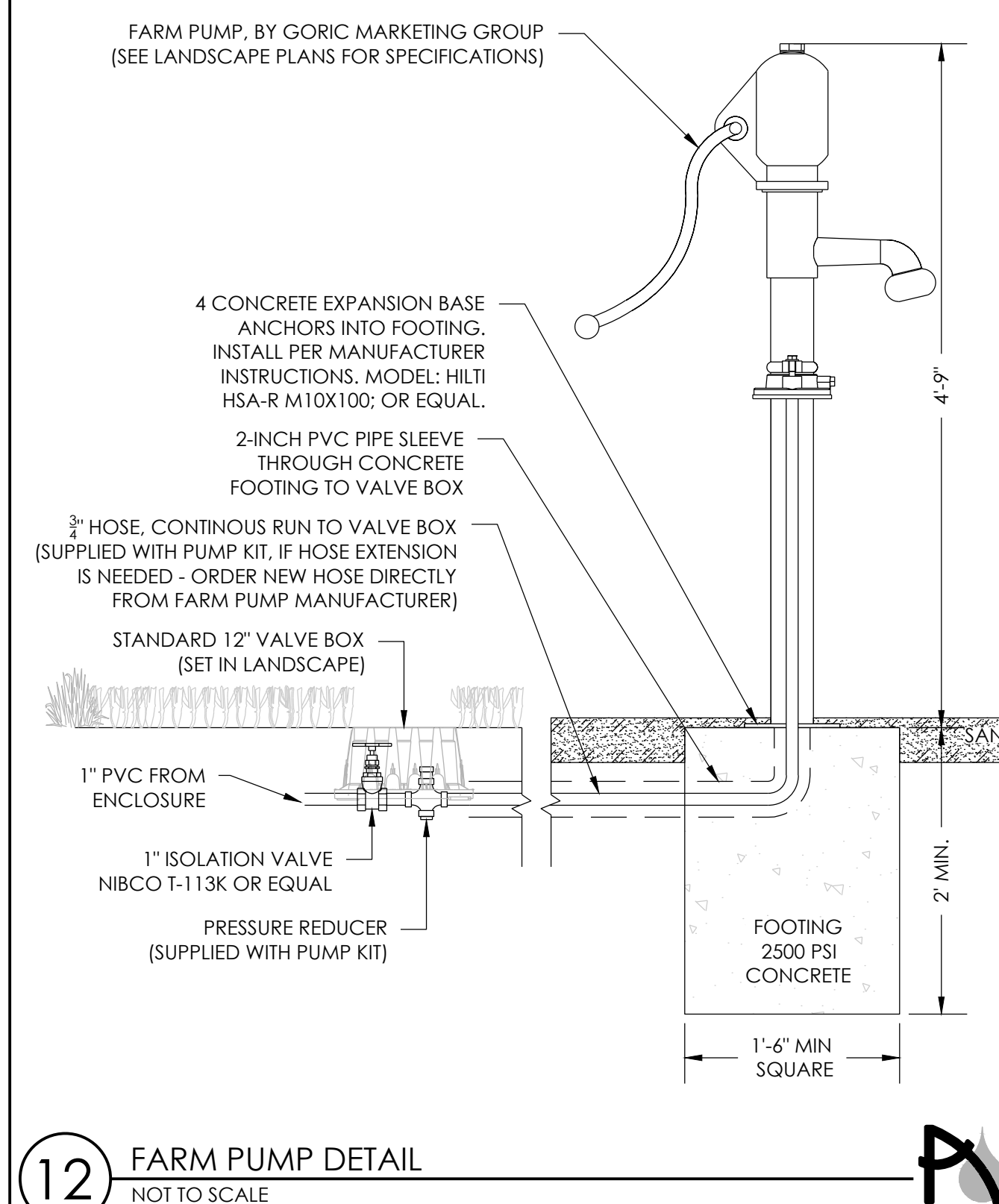
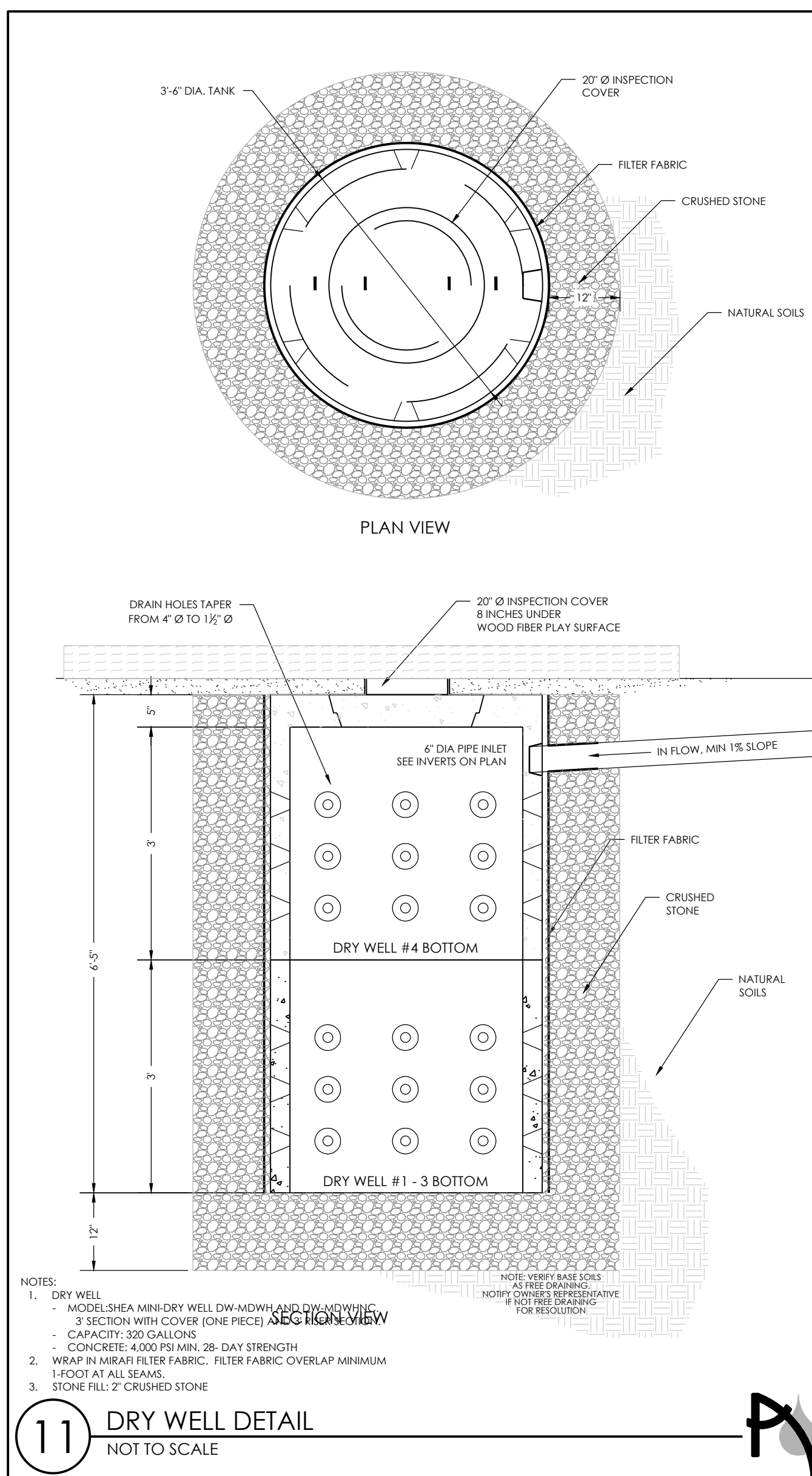
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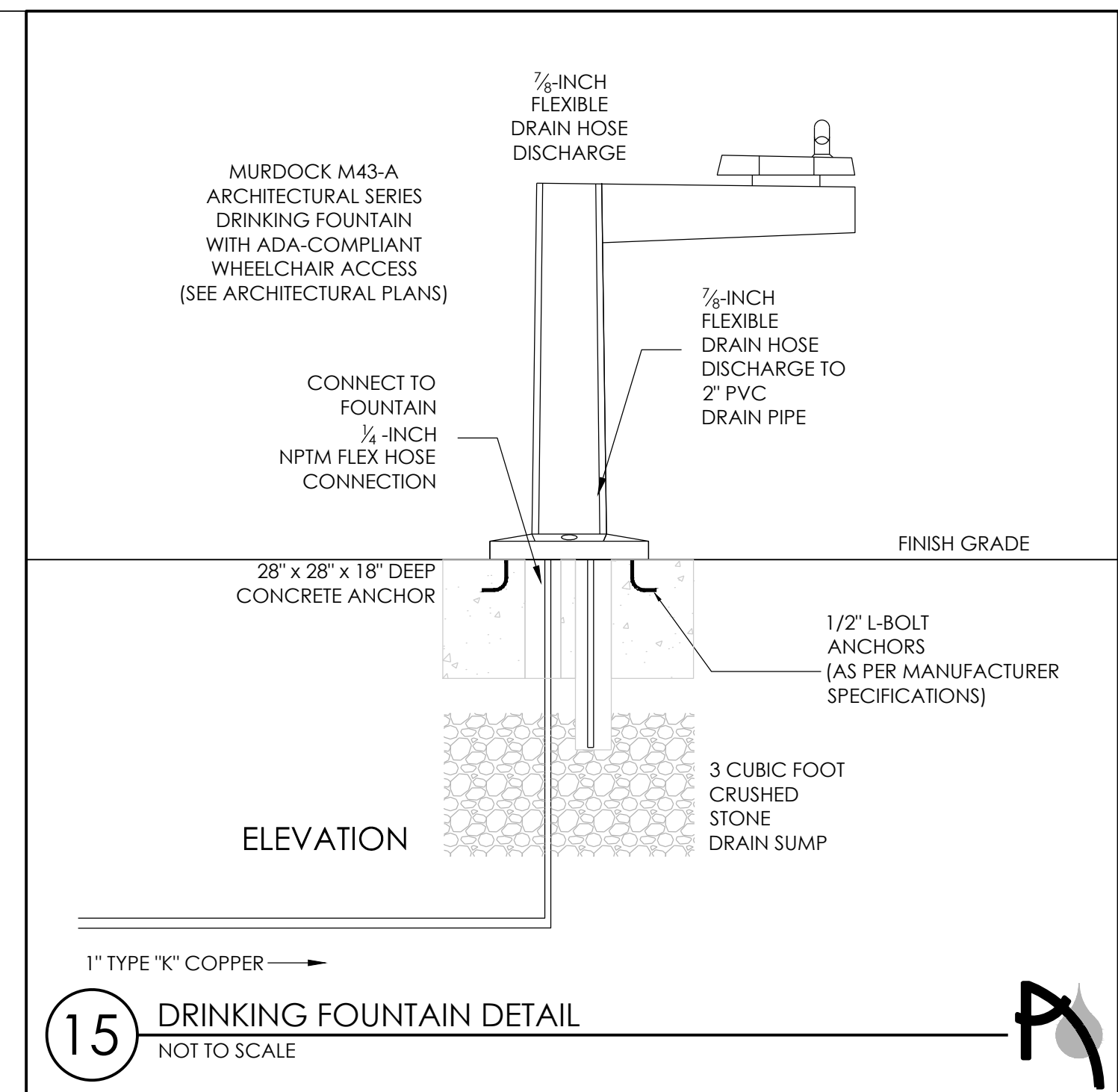
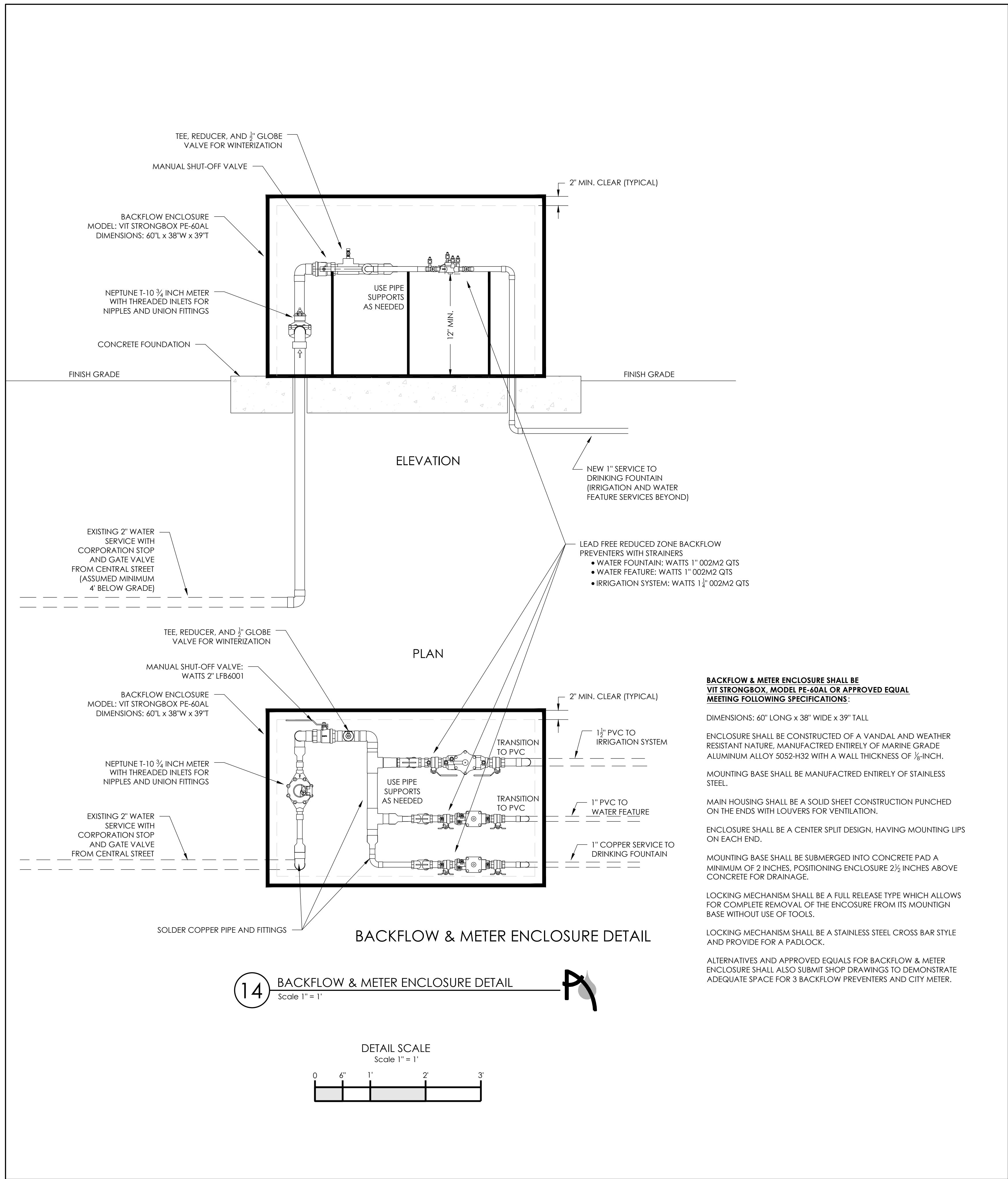
SCALE: AS NOTED

DATE: 16 FEBRUARY 2017

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REVISIONS:

REV	DATE	NOTE

PROJECT: KMDG #1604

**HOYT SULLIVAN
PLAYGROUND**

117 CENTRAL STREET
SOMERVILLE, MA 02145

DRAWING:

**OUTDOOR
CROSS CONNECTION
DETAILS**

DRAWN:	REVIEW:
MI	MI/SM

SCALE:
1" = 1' at 22" x 34" Sheet

DATE:
16 FEBRUARY 2017

SHEET:



IR2.2

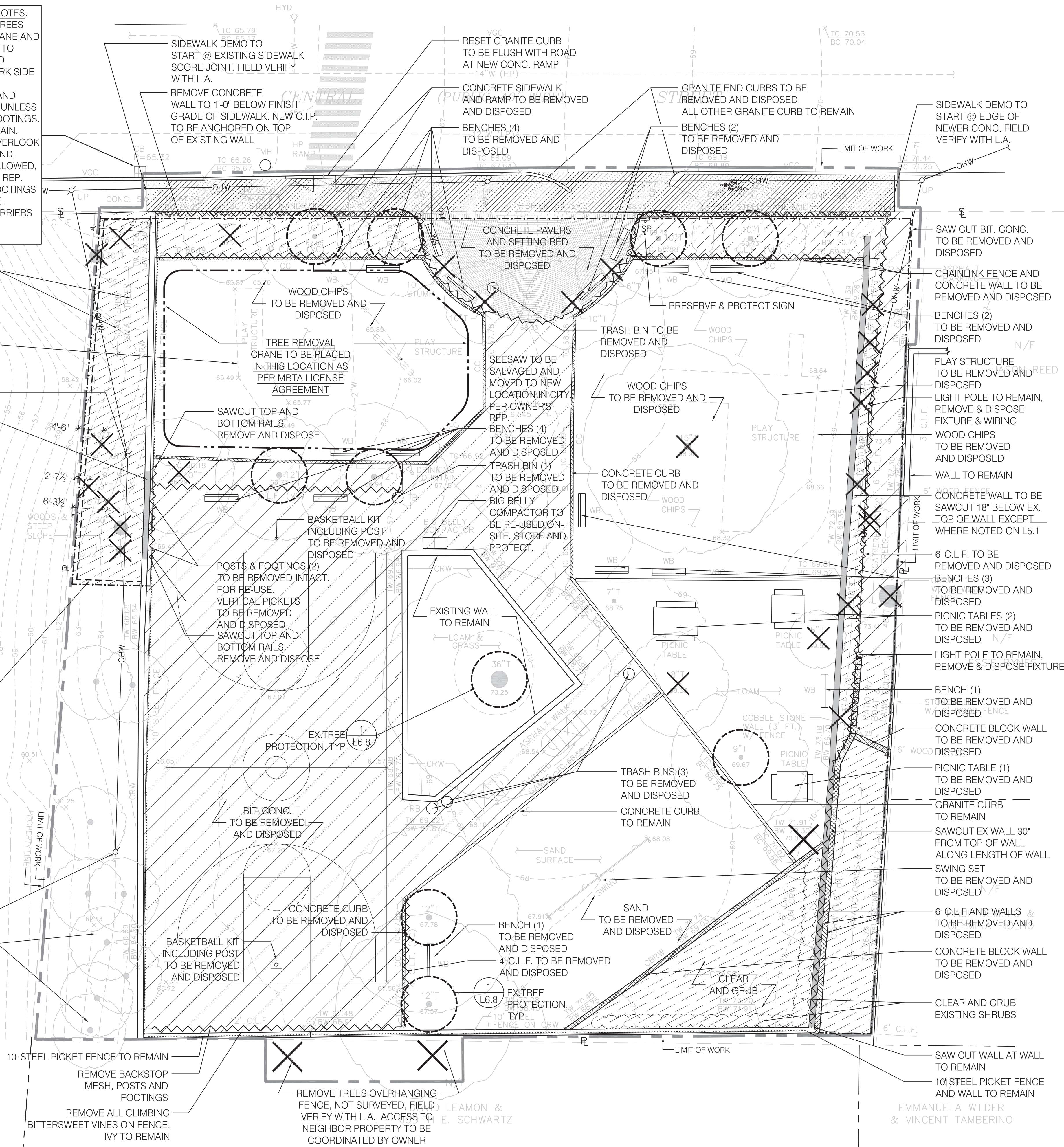
SLOPE (OUTSIDE OF FENCE) DEMO NOTES:
1. CONTRACTOR SHALL ACCESS TREES FROM PARK SIDE ONLY. USE A CRANE AND TAKE ALL NECESSARY MEASURES TO ENSURE ALL REMOVED TREES AND ASSOCIATED DEBRIS LAND ON PARK SIDE OF PROPERTY LINE.
2. TREES SHALL BE CUT AT BASE AND STUMPS SHALL BE LEFT IN PLACE UNLESS IN DIRECT CONTACT WITH NEW FOOTINGS.
3. ALL OVERHEAD WIRING TO REMAIN.
4. ALL EXCAVATION WORK FOR OVERLOOK FOOTINGS SHALL BE DONE BY HAND. PORTABLE EQUIPMENT MAY BE ALLOWED, BUT ONLY IF APPROVED BY A CITY REP.
5. EXCAVATED MATERIALS FOR FOOTINGS SHALL NOT BE STORED ON SLOPE. PLYWOOD AND CONTAINMENT BARRIERS SHALL BE PUT IN PLACE AT EACH FOOTING LOCATION.

CLEAR, GRUB, AND REMOVE ALL TREES BETWEEN SITE WALL AND PROPERTY LINE. NOT ALL TREES WERE SURVEYED. FIELD VERIFY WITH L.A.
PLAY STRUCTURE TO BE REMOVED AND DISPOSED
LIGHT POLE TO REMAIN, REMOVE & DISPOSE FIXTURE

SAWCUT CONCRETE WALL TO ELEVATION 65.75 CONCRETE TO BE REMOVED AND DISPOSED. VERIFY LOCATION OF SAWCUT WITH L2.1 - LAYOUT PLAN AND L7.1 - PLATFORM PLANS
8'-0" TEMPORARY CONSTRUCTION FENCE TO BE INSTALLED PRIOR TO ANY OTHER WORK ALONG MBTA PROPERTY LINE. ALL WORK ON SLOPE SHALL BE ACCESSED FROM THE PARK SIDE AND COMPLETED WITHIN THE LIMITS OF THE CONSTRUCTION FENCE WITH THE EXCEPTION OF ANY REMOVAL OF DEBRIS BY HAND
SILT EROSION CONTROL FENCE

LIGHT POLE TO REMAIN, REMOVE & DISPOSE FIXTURE

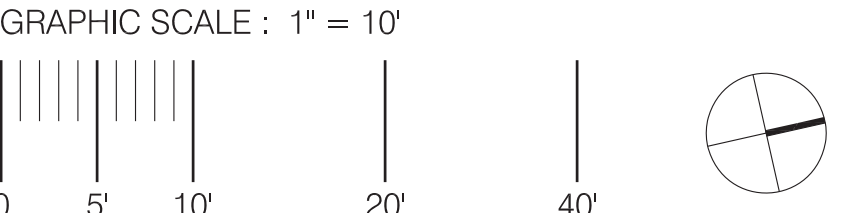
REMOVE ALL DEAD LIMBS AND BRANCHES, TRASH, AND DEBRIS ALONG THE SLOPE FROM RETAINING WALL TO PROPERTY LINE. REMOVE ALL TREE LIMBS OVERHANGING THE STEEL PICKET FENCE



GENERAL SITE DEMOLITION AND PREPARATION NOTES:

- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL EXISTING CONDITIONS TO THE OWNER'S REPRESENTATIVE. DIMENSIONS OF PROPOSED CONSTRUCTION SHOWN SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
- THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE DIAGRAMMATIC ONLY, AND ALL UTILITIES MAY NOT BE SHOWN. PRIOR TO COMMENCING ANY EXCAVATION WORK, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH THE "DIG SAFE" NOTIFICATION PROCEDURES. THE "DIG SAFE" TELEPHONE NUMBER FOR MASSACHUSETTS IS 1-888-DIG-SAFE (344-7233). ANY DAMAGE DUE TO FAILURE OF THE CONTRACTOR TO CONTACT THE PROPER AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR.
- 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 COST TO OWNER.
- CONTRACTOR SHALL KEEP SITE PROTECTED WITH FULL PERIMETER FENCE THROUGH CONSTRUCTION. CONTRACTOR MAY USE EXISTING FENCES TO BE REMOVED & DISPOSED IF DESIRED AND/OR PROVIDE TEMPORARY 6' CHAINLINK CONSTRUCTION FENCE.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE INSIDE AND OUTSIDE THE LIMIT OF WORK DUE TO HIS/HER CONTRACT OPERATIONS. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER.
- CLEAR AND GRUB INCLUDES REMOVAL OF TREES AND STUMPS AS SPECIFIED.
- CONTRACTOR SHALL CONFIRM WITH THE OWNER'S REP. PRIOR TO THE DISPOSAL OF EXISTING FURNISHINGS AND SITE ELEMENTS NOT DESIGNED FOR RE-USE IN THE EVENT CITY OF SOMERVILLE WANTS TO STOCKPILE FOR RE-USE ELSEWHERE.
- CONTRACTOR SHALL KEEP TEMPORARY CONSTRUCTION FENCE AT MBTA PROPERTY LINE.
- EXISTING FOUNDATIONS OF FENCES, BENCHES, AND TABLES TO BE REMOVED MAY REMAIN IN PLACE IN LOCATIONS WHERE FOOTINGS DO NOT INTERFERE WITH PROPOSED WORK.
- CONTRACTOR TO VERIFY ON SITE WITH L.A. AND OWNER'S REP WHICH EXISTING TREES TO BE REMOVED SHALL BE SALVAGED FOR WOOD SEATING LOGS. SEE DETAIL 3/L6.3.
- ALL WIRES TO BE TAKEN DOWN FROM EXISTING UTILITY POLES WITHIN THE PARK.

- CLEAR & GRUB: TREES, SHRUBS, & STUMPS
- HORIZONTAL SAWCUT OF CONCRETE WALL, 18" BELOW EX. TOP OF WALL EXCEPT WHERE NOTED. REMOVE & DISPOSED BIT. CONC. INCLUDING SUB-GRADE TO DEPTH SPECIFIED IN DETAILS & L3.1
- REMOVE & DISPOSE CONC. SIDEWALK & RAMP
- REMOVE & DISPOSE CONC. BLOCK WALL & CURBS INCLUDING FOOTINGS, LANDINGS, & STEPS
- REMOVE & DISPOSE EX. FENCE & FOOTINGS. CONTRACTOR SHALL ALWAYS MAINTAIN A PERIMETER FENCE FOR CONSTRUCTION MANAGEMENT
- TEMPORARY CONSTRUCTION FENCE
- SILT EROSION CONTROL FENCE
- DEMO - SAWCUT
- PROTECT EX. TREES TO REMAIN, SEE L6.8 CONFIRM WITH L.A. IN FIELD PRIOR TO COMMENCING WORK
- REMOVE & DISPOSE OF EX. TREE & STUMP, CLEAR & GRUB AREA

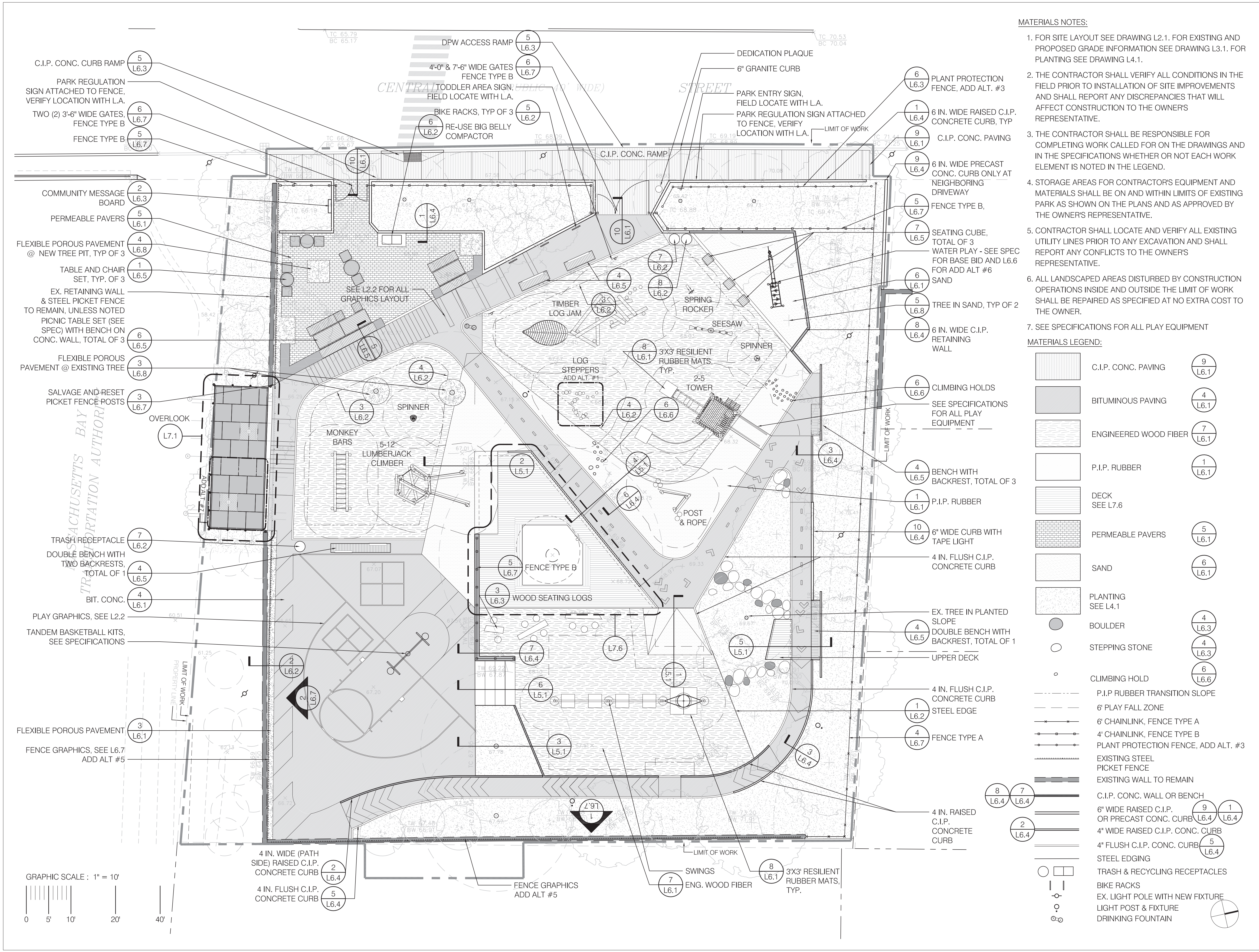


REVISIONS:

REV	DATE	NOTE

DEMOLITION & SITE
PREP PLAN





- MATERIALS NOTES:**
- FOR SITE LAYOUT SEE DRAWING L2.1. FOR EXISTING AND PROPOSED GRADE INFORMATION SEE DRAWING L3.1. FOR PLANTING SEE DRAWING L4.1.
 - THE CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO INSTALLATION OF SITE IMPROVEMENTS AND SHALL REPORT ANY DISCREPANCIES THAT WILL AFFECT CONSTRUCTION TO THE OWNER'S REPRESENTATIVE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING WORK CALLED FOR ON THE DRAWINGS AND IN THE SPECIFICATIONS WHETHER OR NOT EACH WORK ELEMENT IS NOTED IN THE LEGEND.
 - STORAGE AREAS FOR CONTRACTOR'S EQUIPMENT AND MATERIALS SHALL BE ON AND WITHIN LIMITS OF EXISTING PARK AS SHOWN ON THE PLANS AND AS APPROVED BY THE OWNER'S REPRESENTATIVE.
 - CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO ANY EXCAVATION AND SHALL REPORT ANY CONFLICTS TO THE OWNER'S REPRESENTATIVE.
 - ALL LANDSCAPED AREAS DISTURBED BY CONSTRUCTION OPERATIONS INSIDE AND OUTSIDE THE LIMIT OF WORK SHALL BE REPAIRED AS SPECIFIED AT NO EXTRA COST TO THE OWNER.
 - SEE SPECIFICATIONS FOR ALL PLAY EQUIPMENT

MATERIALS LEGEND:	
	C.I.P. CONC. PAVING
	BITUMINOUS PAVING
	ENGINEERED WOOD FIBER
	P.I.P. RUBBER
	DECK SEE L7.6
	PERMEABLE PAVERS
	SAND
	PLANTING SEE L4.1
	BOULDER
	STEPPING STONE
	CLIMBING HOLD
	P.I.P. RUBBER TRANSITION SLOPE
	6' PLAY FALL ZONE
	6' CHAINLINK, FENCE TYPE A
	4' CHAINLINK, FENCE TYPE B
	PLANT PROTECTION FENCE, ADD ALT. #3
	EXISTING STEEL PICKET FENCE
	EXISTING WALL TO REMAIN
	C.I.P. CONC. WALL OR BENCH
	6" WIDE RAISED C.I.P. OR PRECAST CONC. CURB
	4" WIDE RAISED C.I.P. CONC. CURB
	4" FLUSH C.I.P. CONC. CURB
	STEEL EDGING
	TRASH & RECYCLING RECEPTACLES
	BIKE RACKS
	EX. LIGHT POLE WITH NEW FIXTURE
	LIGHT POST & FIXTURE
	DRINKING FOUNTAIN

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REVISIONS:

REV	DATE	NOTE

PROJECT: KMDG #1604

HOYT SULLIVAN PLAYGROUND

117 CENTRAL STREET
SOMERVILLE, MA 02145

DRAWING:

DRAWN:	REVIEW:
DS/EH	SK

SCALE:

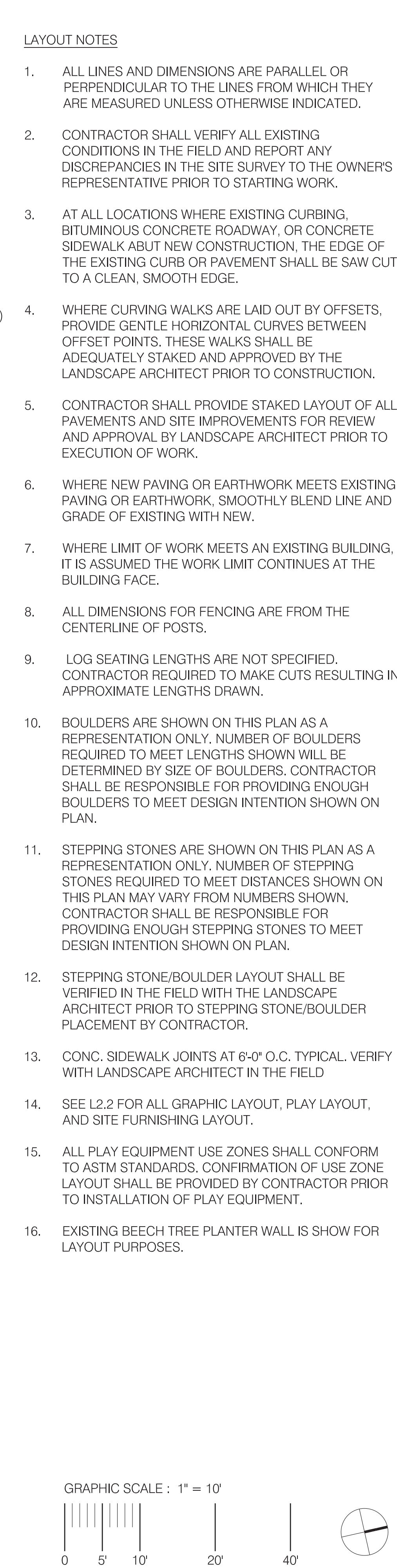
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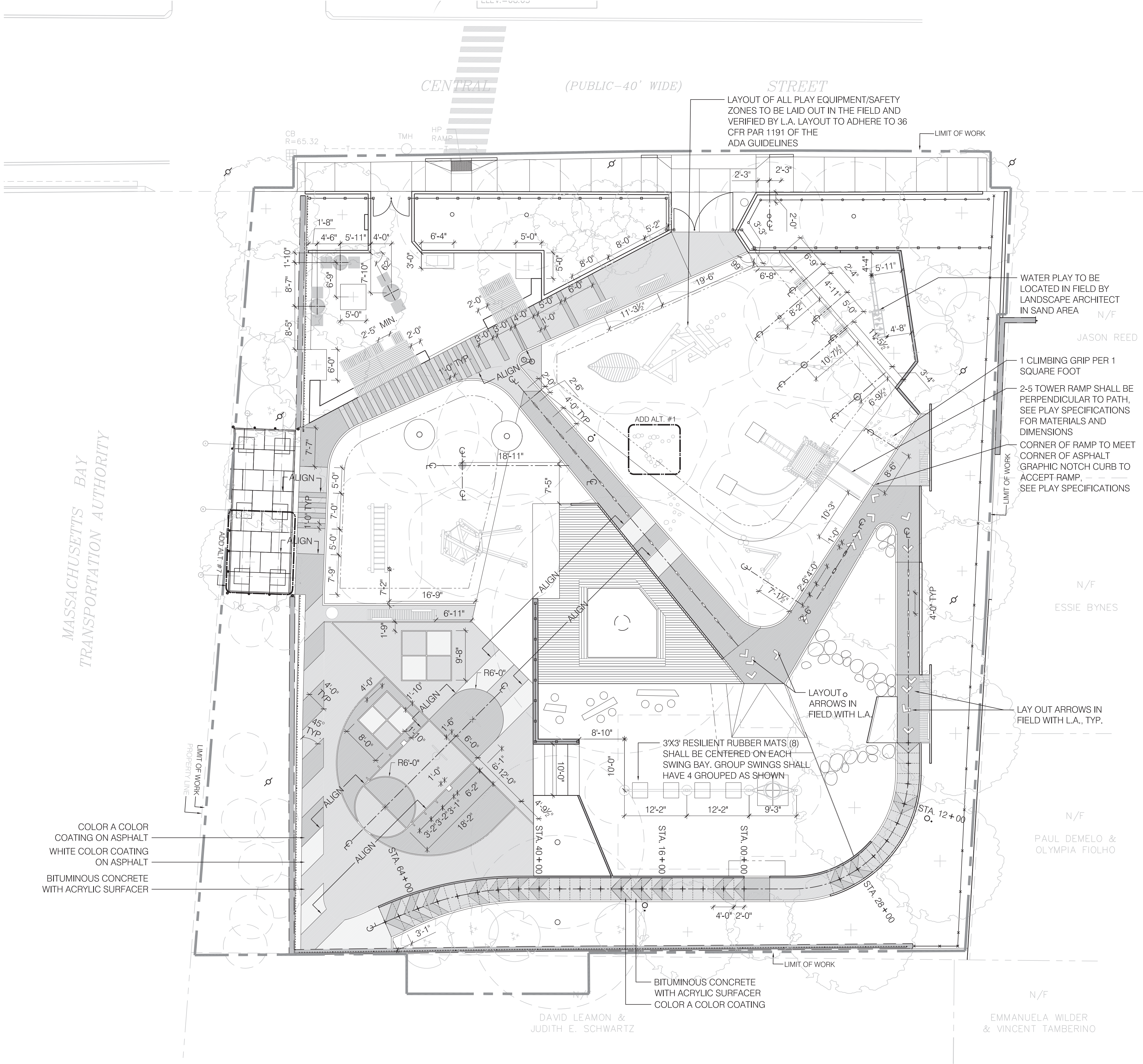
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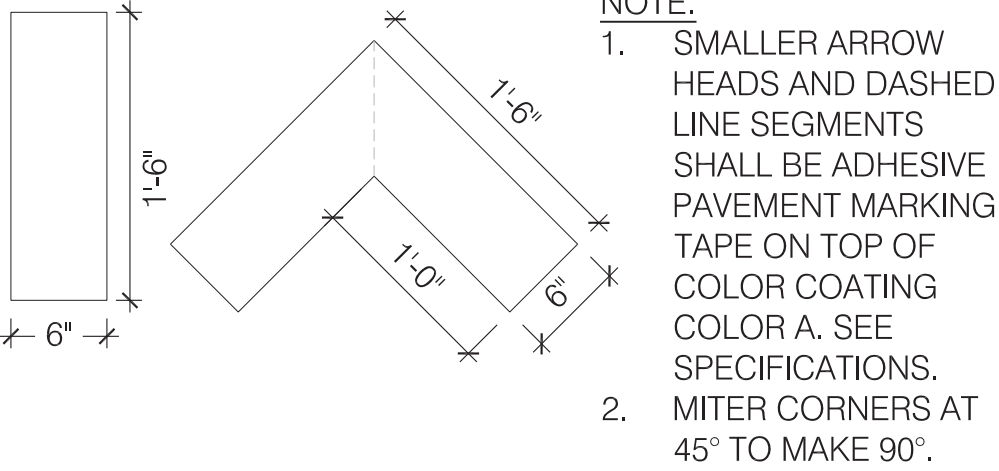
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REV	DATE NOTE
PROJECT: KMDG #1604 HOYT SULLIVAN PLAYGROUND 117 CENTRAL STREET SOMERVILLE, MA 02145	
DRAWING:	
LAYOUT PLAN	
DRAWN: DS	REVIEW: SK
SCALE: 1" = 10'-0"	
DATE: 16 FEBRUARY 2017	
SHEET:	
	
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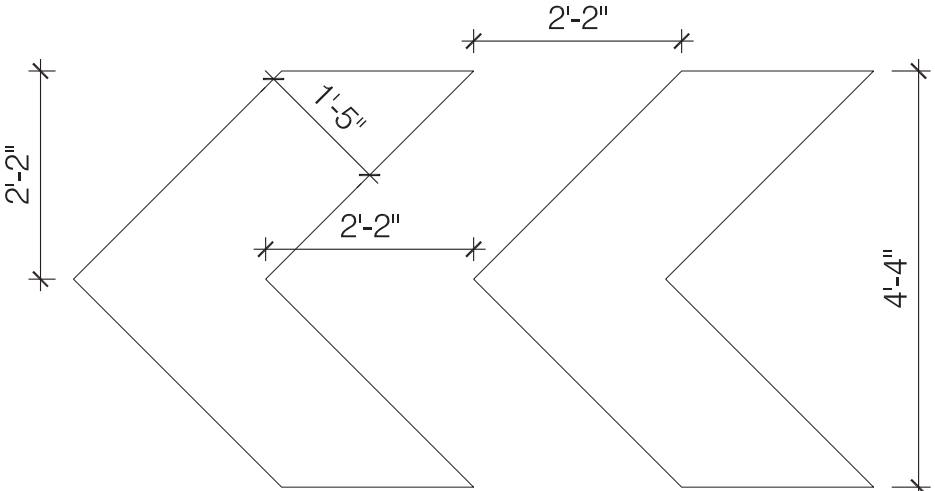
LAYOUT NOTES

1. ASSUME 15 SMALL ADHESIVE PAVEMENT MARKING TAPE ARROWS SHALL BE LAID OUT IN FIELD WITH L.A.
2. ASSUME 22 DASHED LINE SEGMENTS OF ADHESIVE PAVEMENT MARKING TAPE.
3. DASHED LINE SEGMENTS ARE PARALLEL TO EDGES OF PATH ON CENTER LINE AT 4', TYP., CENTER TO CENTER.

ADHESIVE PAVEMENT MARKING TAPE GRAPHICS LAYOUT



COLOR COATING GRAPHICS



MATERIALS LEGEND:

- WHITE COLOR COATING ON BIT. CONC. WITH ACRYLIC SURFACER UNDER COAT, SEE SPECIFICATIONS
- COLOR A COLOR COATING (STANDARD COLOR) WITH ACRYLIC SURFACER UNDER COAT ON BIT. CONC., SEE SPECIFICATION
- BITUMINOUS CONCRETE WITH ACRYLIC SURFACER (ALL BIT. CONC. TO RECEIVE ACRYLIC SURFACER)

GRAPHIC SCALE : 1" = 10'



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SOMERVILLE, MA 02145

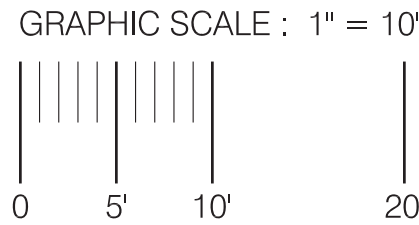
DRAWING:
GRAPHICS &
FURNISHING LAYOUT
PLAN

DRAWN: DS REVIEW: SK

SCALE:
1" = 10'-0"

DATE:
16 FEBRUARY 2017

SHEET:



MEET EXISTING
SIDEWALK GRADE

CENTRAL (PUBLIC-40' WIDE)

- RESET GRANITE CURB TO BE FLUSH WITH ROAD AND CONC. RAMP, VERIFY SLOPES AT CURB RAMP TO MEET ADA






— LIMIT OF WORK

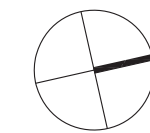
MEET EXISTING
SIDEWALK GRADE

GRADE NOT SURVEYED.
VERIFY IN FIELD. TOP OF
PROPOSED GRADE TO
MEET TOP OF EXISTING
ASPHALT DRIVE, TYP

— GRADE NOT SURVEYED,
VERIFY IN FIELD. TOP OF
PROPOSED GRADE TO
MEET EXISTING, TYP

TO MEET EXISTING N/F
EXISTING WALL
EMMANUELA WILDER
& VINCENT TAMBERINO

<u>52.0</u>	MINOR CONTOUR
<u>50.0</u>	MAJOR CONTOUR
52.0	EXISTING CONTOUR, MINOR
50.0	EXISTING CONTOUR, MAJOR
	EXISTING WALL
	C.I.P. CONC. WALL
	6" RAISED C.I.P. CONC. CURB
	4" RAISED C.I.P. CONC. CURB
	4" FLUSH C.I.P. CONC. CURB



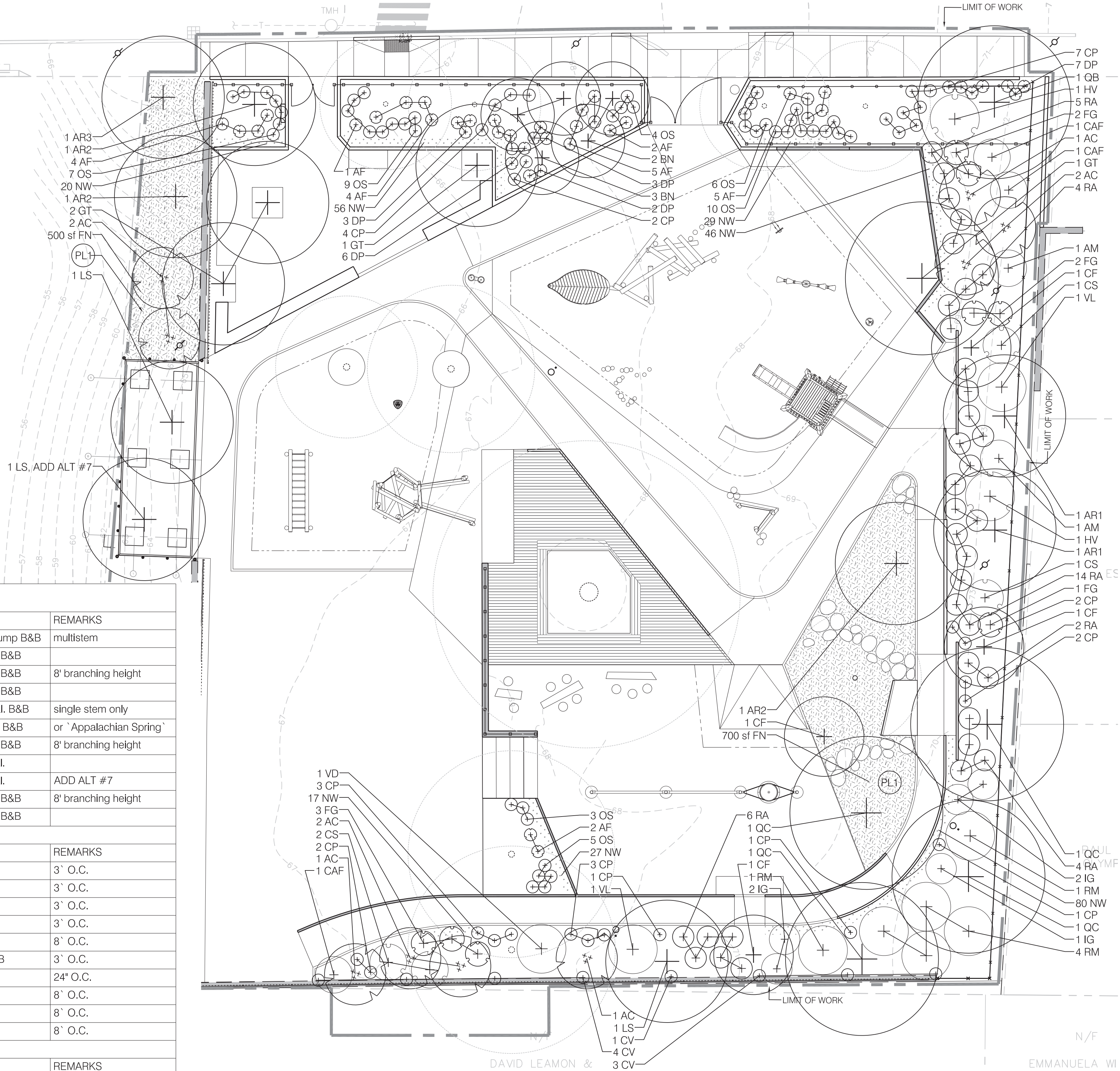
L3.1

PLANTING NOTES:

- ALL PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED BY THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
- ALL PLANTS TO BE BALLED AND BURLAPPED OR CONTAINER-GROWN, UNLESS OTHERWISE NOTED ON PLANT LIST.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE ONLY AS APPROVED BY THE OWNER'S REPRESENTATIVE.
- ALL PLANTS SHALL BE TAGGED AND APPROVED BY THE OWNER'S REPRESENTATIVE AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO SITE. CONTRACTOR TO NOTIFY THE OWNER'S REPRESENTATIVE TWO WEEKS IN ADVANCE OF TREE TAGGING TO SCHEDULE.
- CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
- STAKE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING. ALL PLANT LOCATIONS SHALL BE APPROVED BY L.A.
- PLANT MATERIAL SHALL BEAR SAME RELATIONSHIP TO GRADE AS IT BORE TO PREVIOUS GRADE. PLANT MATERIAL SHALL ALSO BE IN THE SAME SOLAR ORIENTATION AS AT NURSERY. MATERIAL SHALL BE TAGGED ON THE NORTH SIDE OF THE PLANT TO FACILITATE PROPER ORIENTATION.
- THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON ALL DRAWINGS.
- ALL PLANTED AREA WITH EXCEPTION OF TREES IN FLEXI-PAVE AND SEED AREAS SHALL RECEIVE SHREDDED BARK MULCH TO COVER ENTIRE BED.
- JUTE FABRIC SHALL BE INSTALLED ON SLOPE STEEPER THAN 2.5:1

PLANT SCHEDULE

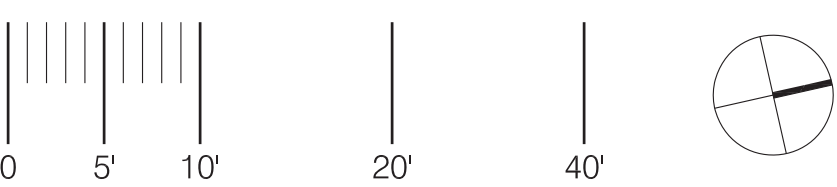
TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
AC	9	Amelanchier canadensis	Canadian Serviceberry	7/8` ht. clump B&B	multistem
AR1	2	Acer rubrum `Bowhall`	Bowhall Red Maple	2.5-3" cal. B&B	
AR2	3	Acer rubrum `Brandywine`	Red Maple	2.5-3" cal. B&B	8' branching height
AR3	1	Acer rubrum `Red Sunset`	Red Sunset Maple	2.5-3" cal. B&B	
BN	5	Betula nigra	River Birch	1.5-2.5" cal. B&B	single stem only
CF	4	Cornus florida `Appalachian Snow`	Dogwood Appalachian Snow	1.5"/2" cal. B&B	or `Appalachian Spring`
GT	4	Gleditsia triacanthos inermis `Skyline`	Skyline Thornless Honey Locust	2.5-3" cal. B&B	8' branching height
LS	2	Liquidambar styraciflua	American Sweet Gum	2.5" -3" Cal.	
LS	1	Liquidambar styraciflua	American Sweet Gum	2.5" -3" Cal.	ADD ALT #7
QB	1	Quercus bicolor	Swamp White Oak	3-3.5" cal. B&B	8' branching height
QC	4	Quercus coccinea	Scarlet Oak	3-3.5" cal. B&B	
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
AM	2	Aronia melanocarpa	Chokeberry	#3 pot	3` O.C.
CAF	3	Calycanthus floridus	Sweet Shrub	#3 pot	3` O.C.
CS	4	Cornus sericea	Red Twig Dogwood	#3 pot	3` O.C.
FG	8	Fothergilla gardenii	Dwarf Fothergilla	#3 pot	3` O.C.
HV	2	Hamamelis vernalis	Spring Blooming Witchhazel	#7 pot	8` O.C.
IG	5	Ilex glabra	Inkberry Holly	24/30" B&B	3` O.C.
RA	35	Rhus aromatica `Gro-Low`	Gro-Low Fragrant Sumac	#2 pot	24" O.C.
RM	6	Rhododendron maximum	Rose Bay	5-6` B&B	8` O.C.
VD	1	Viburnum dentatum	Viburnum	3-4` B&B	8` O.C.
VL	2	Viburnum lentago	Nannyberry	3-4` B&B	8` O.C.
FERNS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
AF	23	Athyrium filix-femina	Common Lady Fern	#1	2` O.C., ADD ALT #3
CP	28	Comptonia peregrina	Sweet Fern	#1	2` O.C., ADD ALT #3
DP	21	Dennstaedtia punctilobula	Hay-scented Fern	#1	2` O.C., ADD ALT #3
OS	44	Onoclea sensibilis	Sensitive Fern	#1	2` O.C., ADD ALT #3
VINE/ESPAUER	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
CV	8	Clematis virginiana	Woodbine	#1	15` O.C., ADD ALT #3
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
FN	1,200 sf	Festuca spp.	No Mow	seed	
NW	300	Narcissus x `White Mixture`	White Daffodil	bulb	12" O.C., ADD ALT #3



LEGEND

- PL1 NO MOW SEED MIX
- BULB PLANTING, ADD ALT #3
- PERENNIAL PLANTING, ADD ALT #3
- SHRUB PLANTING
- MULTI-STEM TREE PLANTING
- TREE PLANTING TYPICAL
- IN SAND
- ON SLOPE
- IN FLEXIBLE POROUS PAVEMENT

GRAPHIC SCALE : 1" = 10'



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REVISIONS:

REV DATE NOTE

PROJECT: KMDG #1604

HOYT SULLIVAN
PLAYGROUND

117 CENTRAL STREET
SOMERVILLE, MA 02145

DRAWING:

PLANTING PLAN

DRAWN: EH REVIEW: SK

SCALE:
1" = 10'-0"

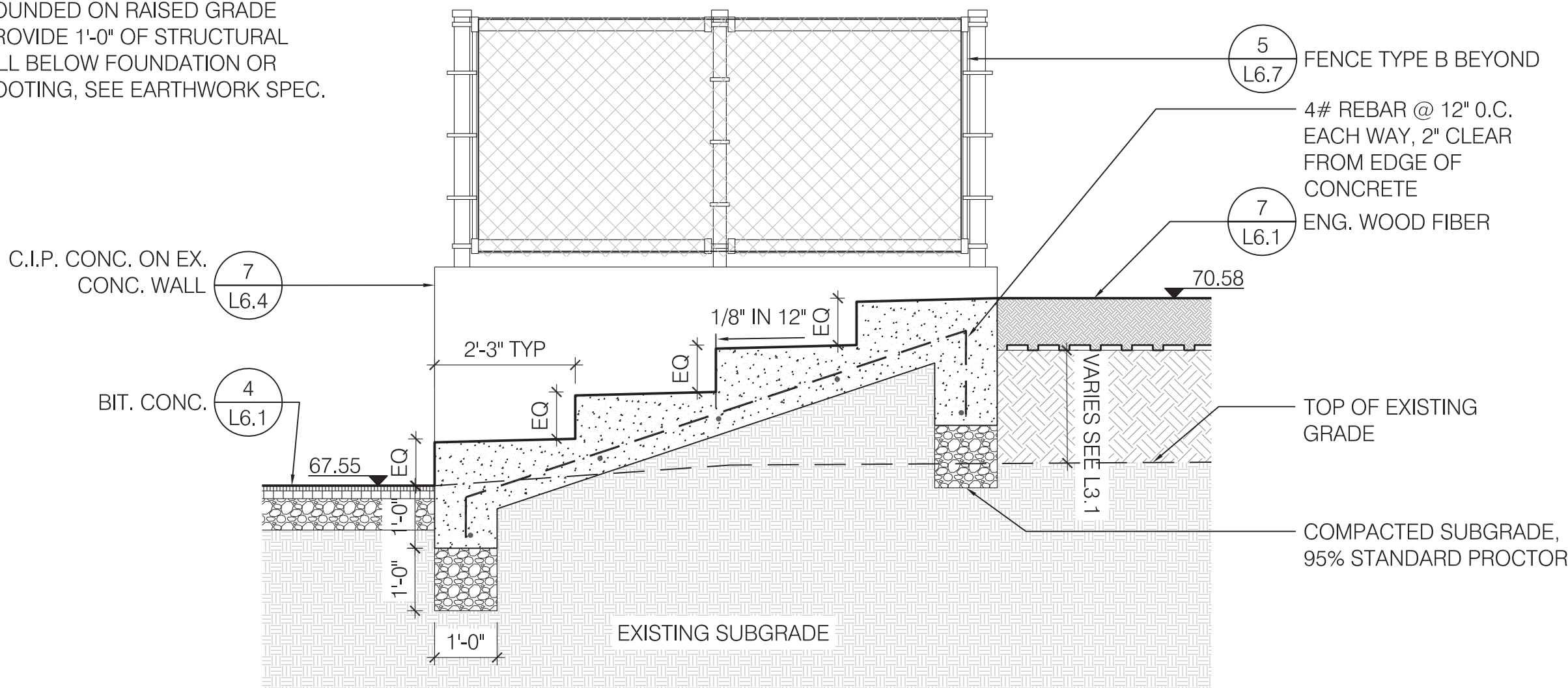
DATE:
16 FEBRUARY 2017

SHEET:



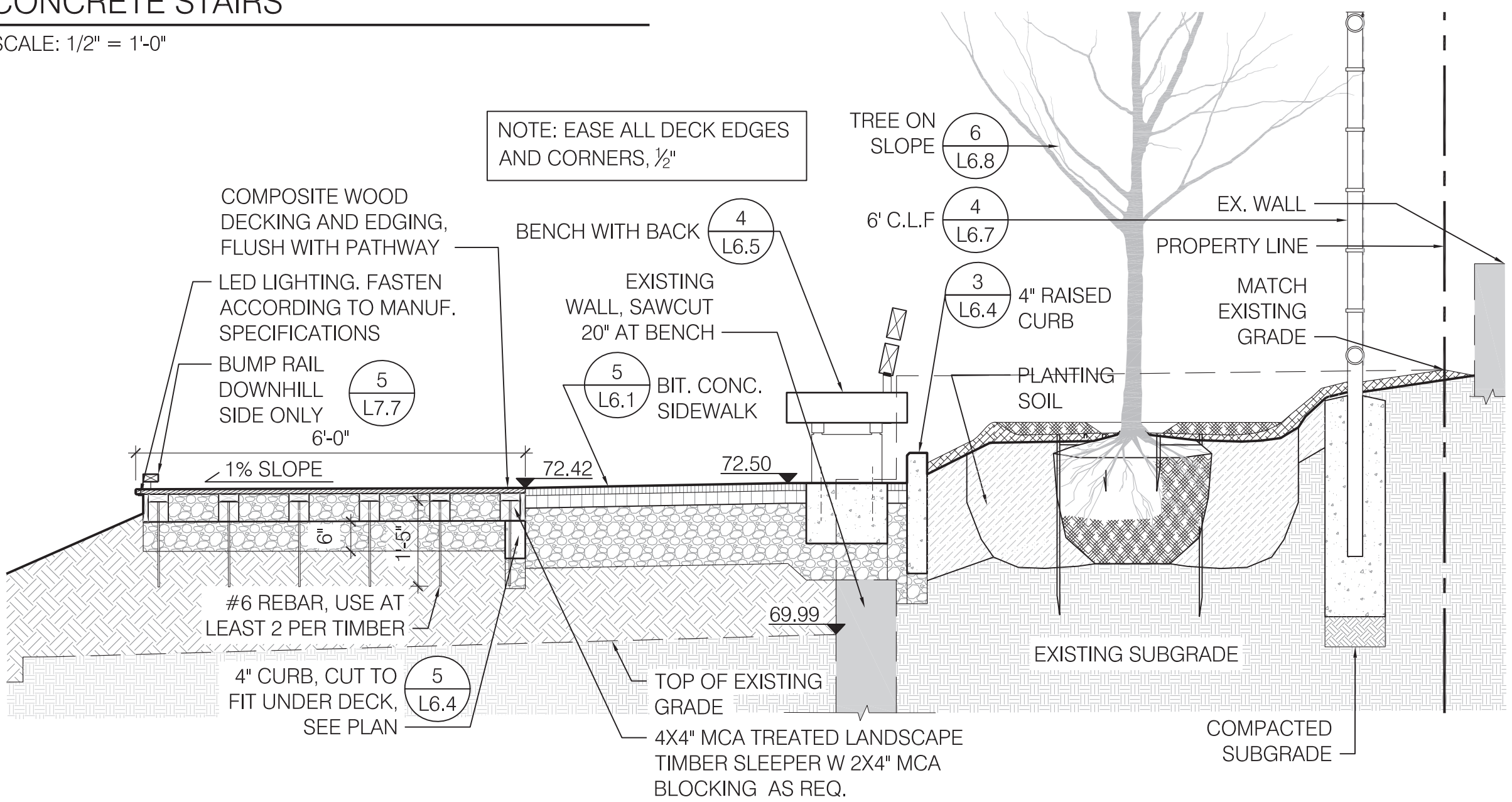
L4.1

GENERAL NOTE:
IF FOUNDATIONS OR FOOTINGS ARE
FOUNDED ON RAISED GRADE
PROVIDE 1'-0" OF STRUCTURAL
FILL BELOW FOUNDATION OR
FOOTING, SEE EARTHWORK SPEC.



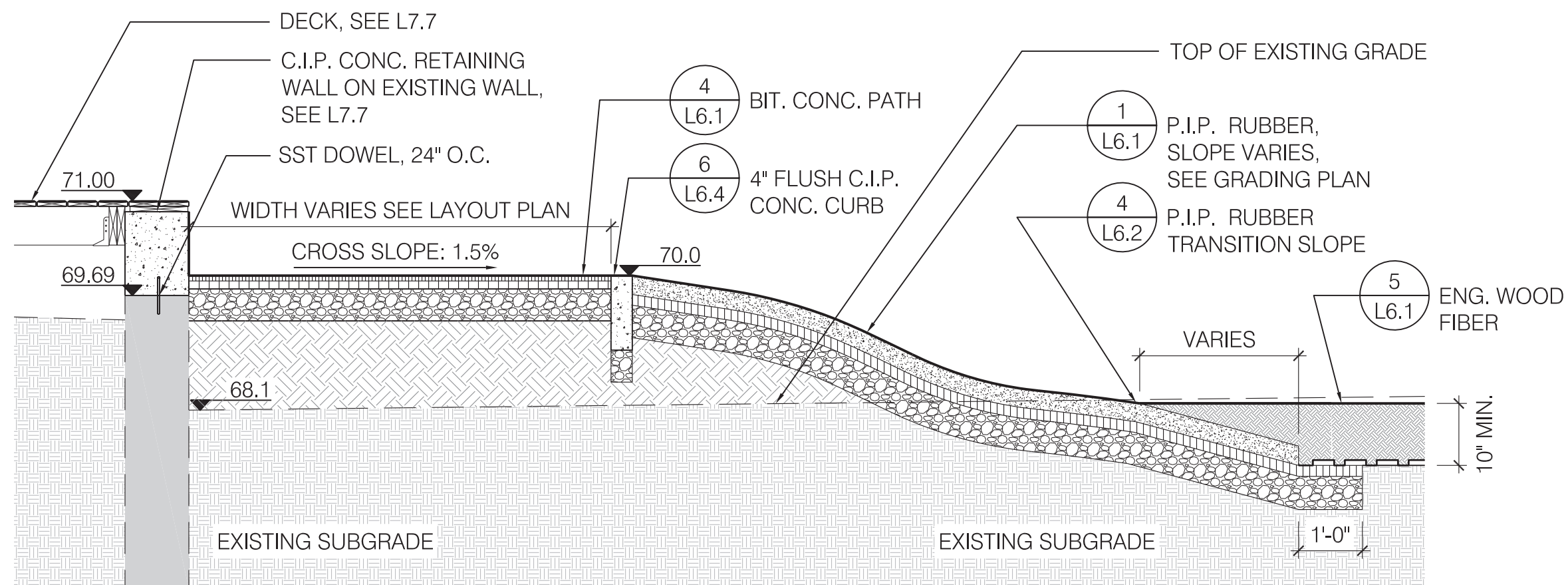
6 CONCRETE STAIRS

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



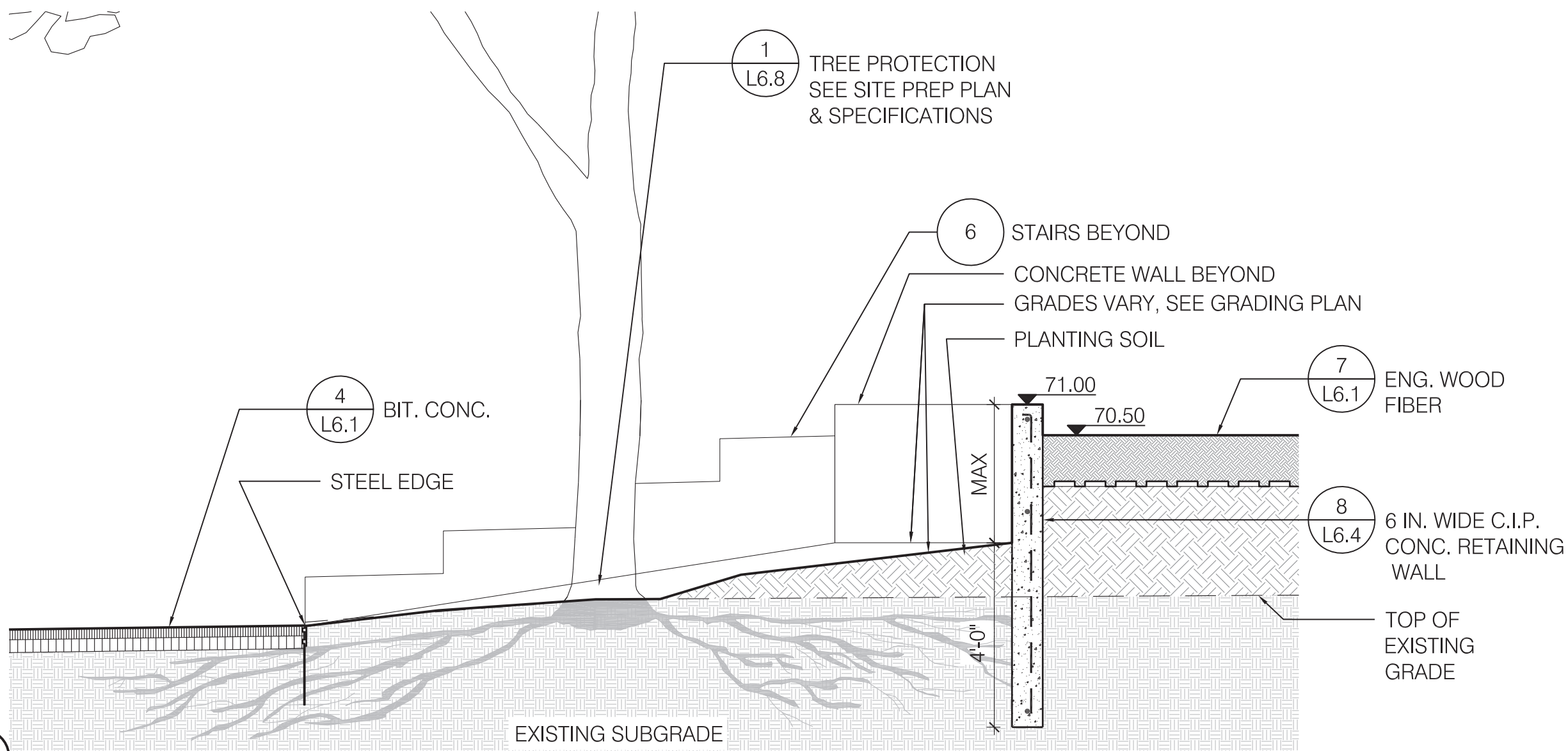
5 UPPER DECK @ PATH

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



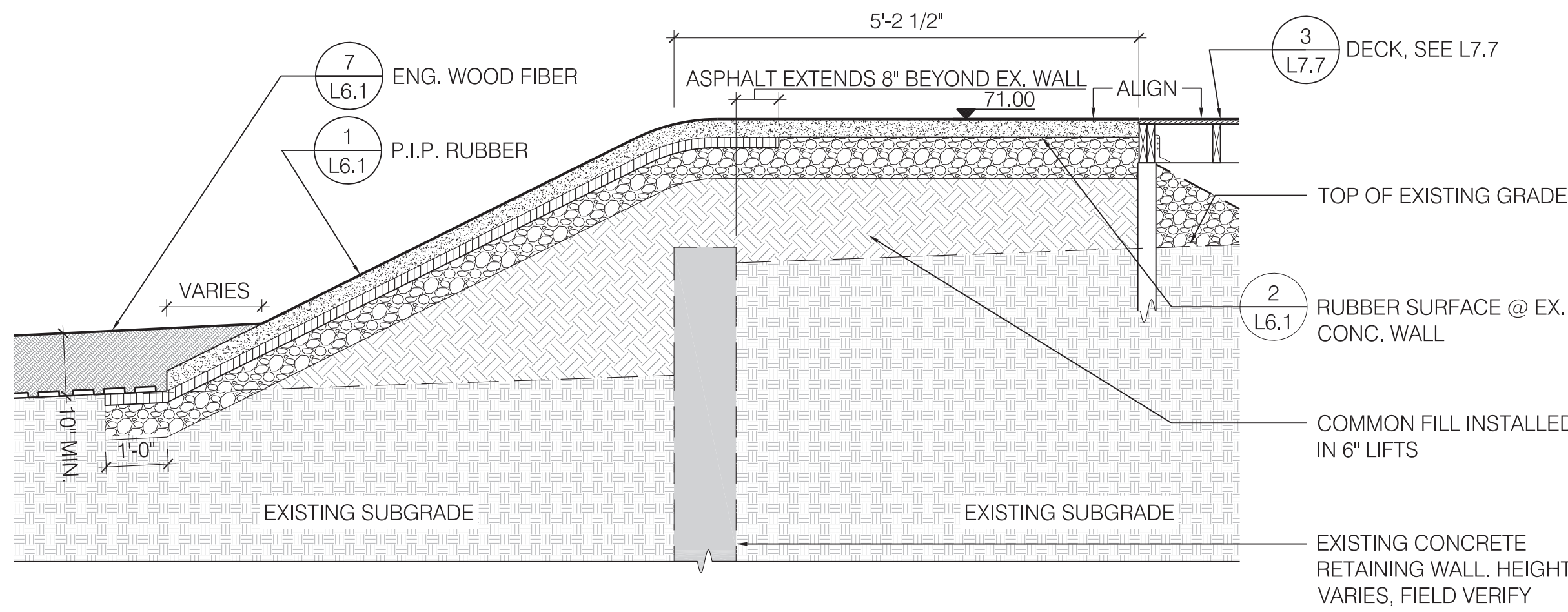
4 RUBBER SLOPE @ PATH SECTION

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



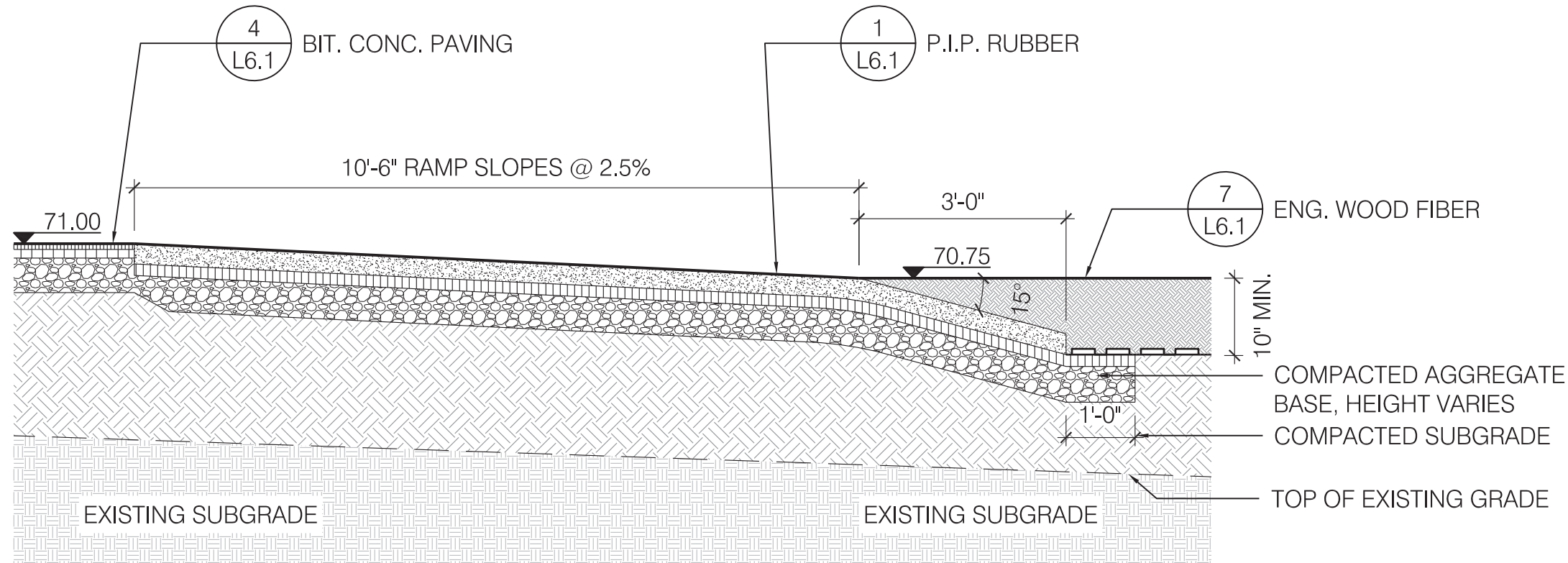
3 EX. TREE @ STAIRS

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



2 RUBBER PLAY SLOPE @ DECK SECTION

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



1 RUBBER RAMP SECTION

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

REVISIONS:

REV	DATE	NOTE
-----	------	------

PROJECT: KMDG #1604

HOYT SULLIVAN PLAYGROUND

117 CENTRAL STREET
SOMERVILLE, MA 02145

DRAWING:

SECTIONS

DRAWN:	REVIEW:
DS/EH	SK

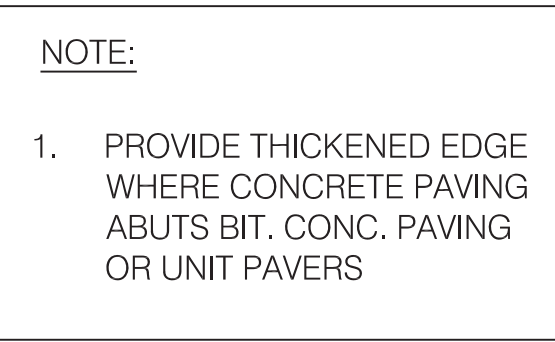
SCALE:
AS NOTED

DATE:
16 FEBRUARY 2017

SHEET:



L5.1



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



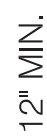
SCALE: 1 1/2" = 1'-0"



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



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



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



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



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

REVISIONS:	
REV	DATE
NOTE	

PROJECT: KMDG #1604
HOYT SULLIVAN PLAYGROUND
117 CENTRAL STREET
SOMERVILLE, MA 02145

DRAWING:

PARK DETAILS 1

DRAWN: DS/EH REVIEW: SK

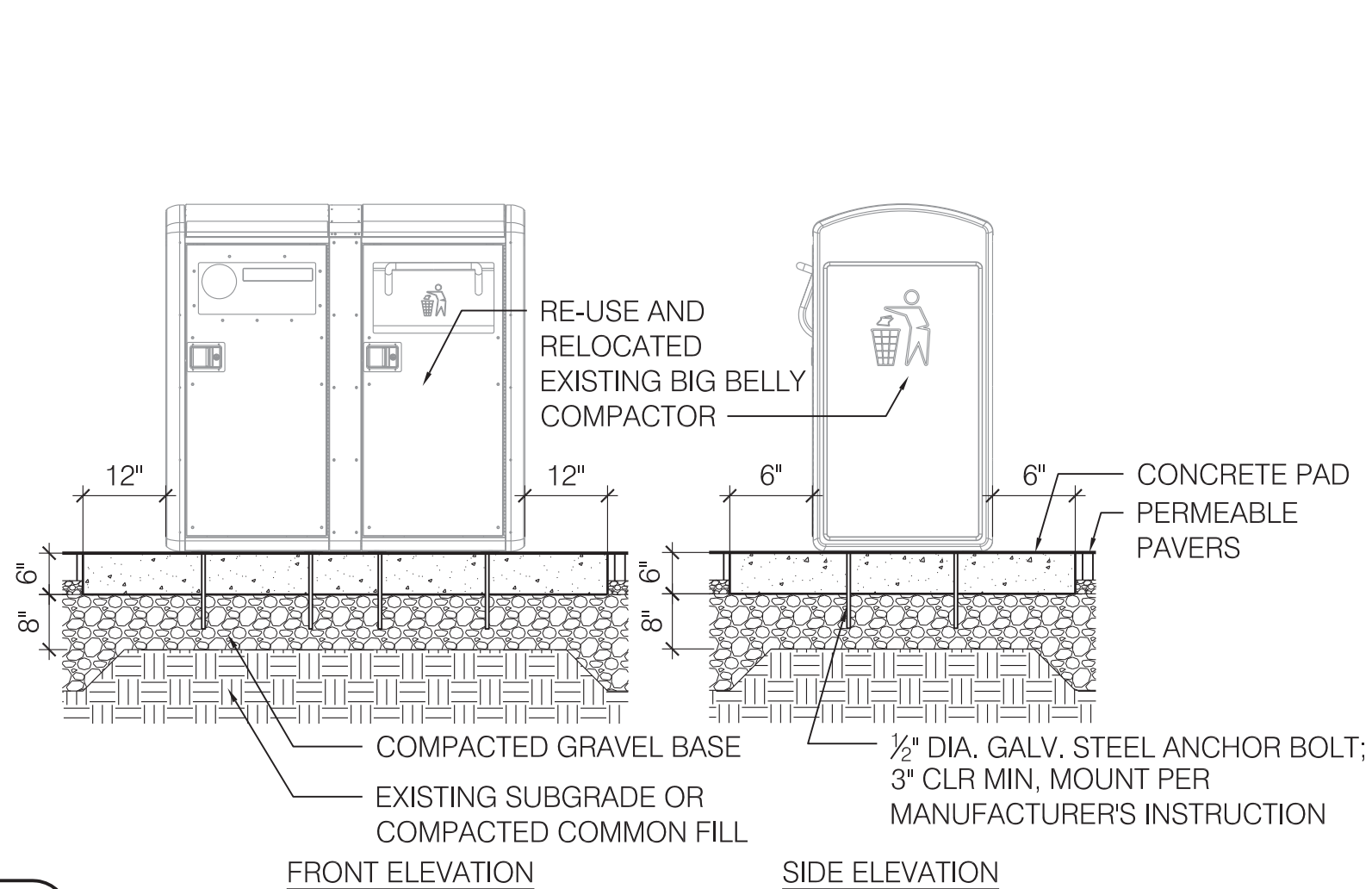
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DATE: 16 FEBRUARY 2017

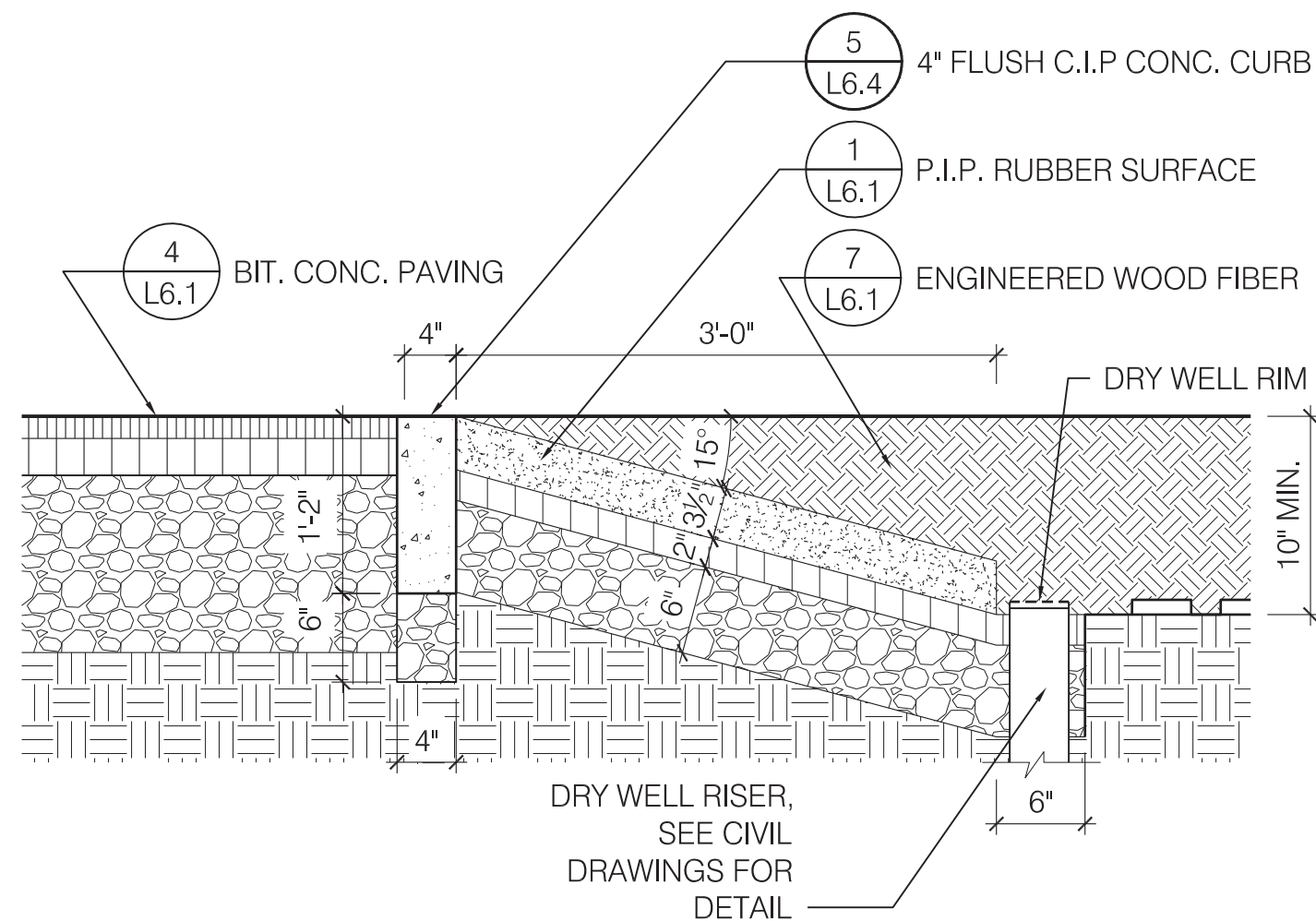
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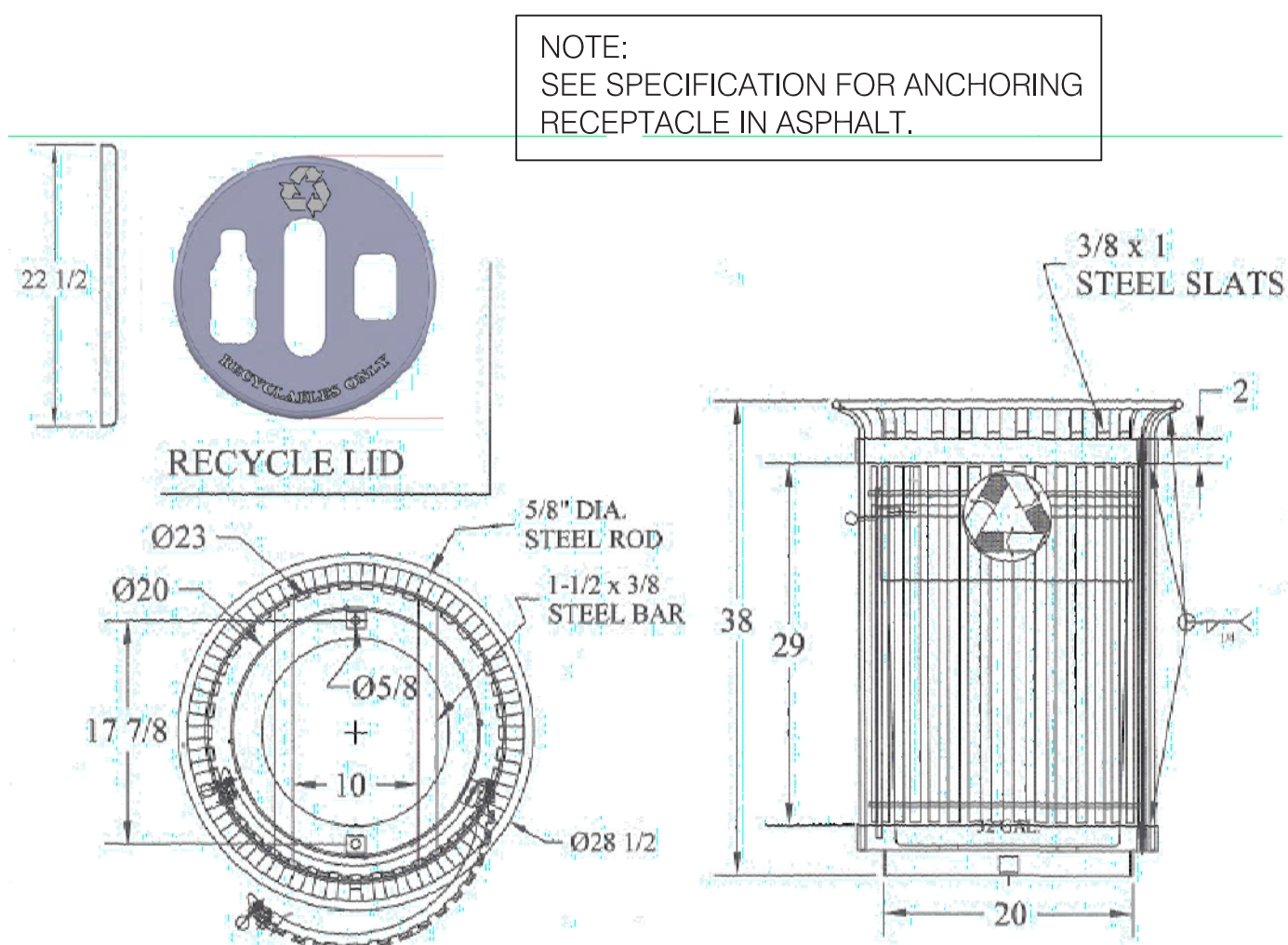
L6.2



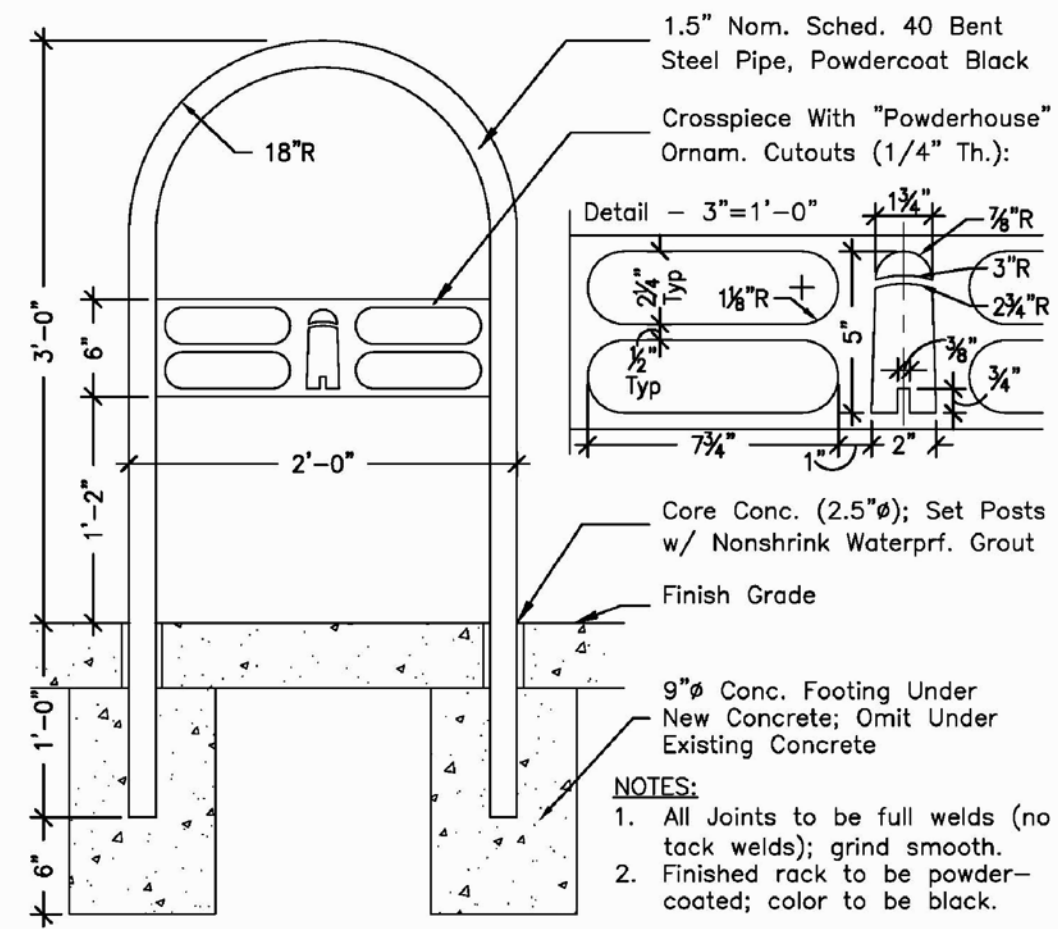
6 RE-USE EXISTING BIG BELLY COMPACTOR
SCALE: 1/2" = 1'-0"



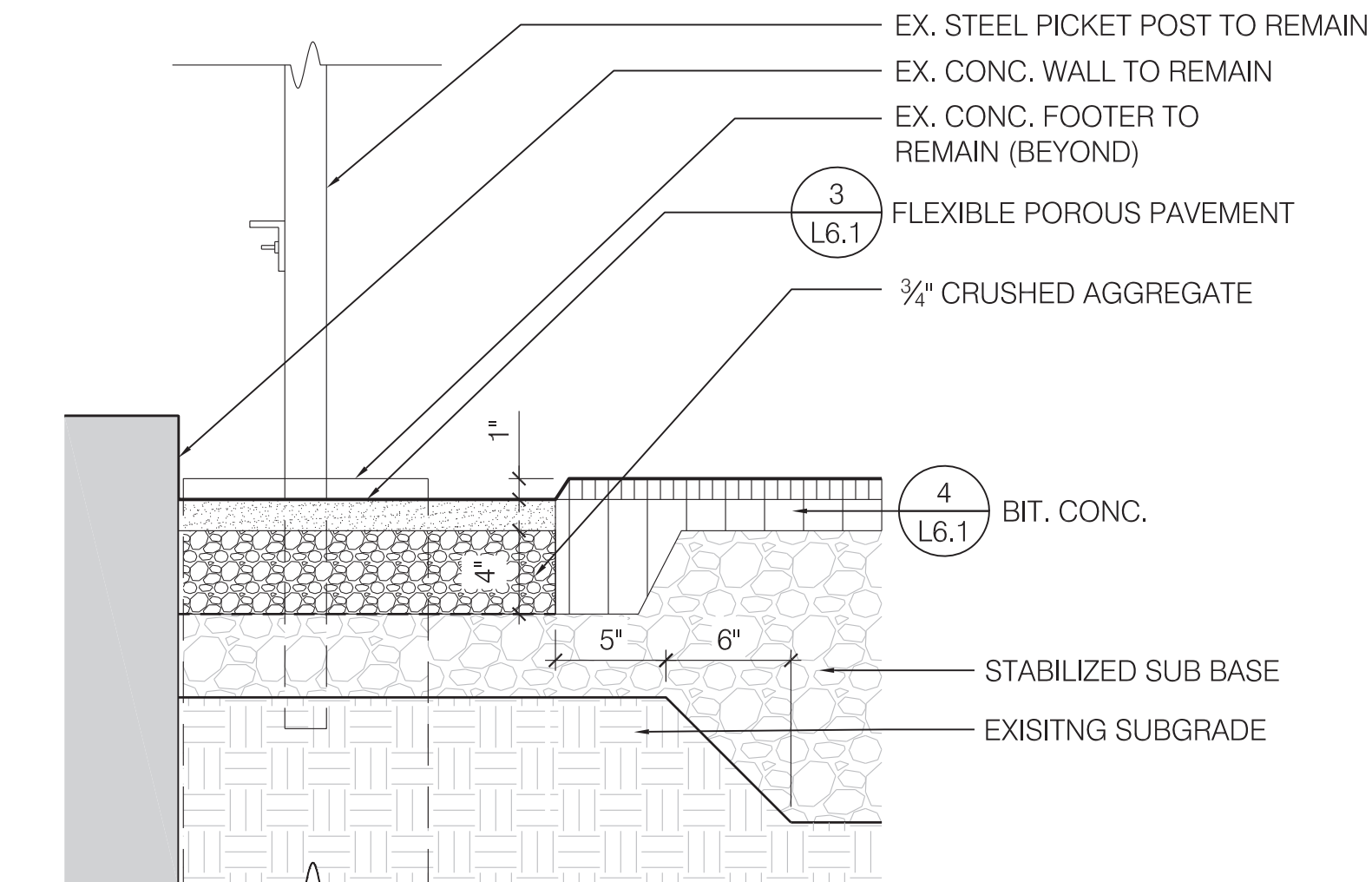
3 P.I.P. RUBBER TRANSITION SLOPE @ BIT. CONC.
SCALE: 1" = 1'-0"



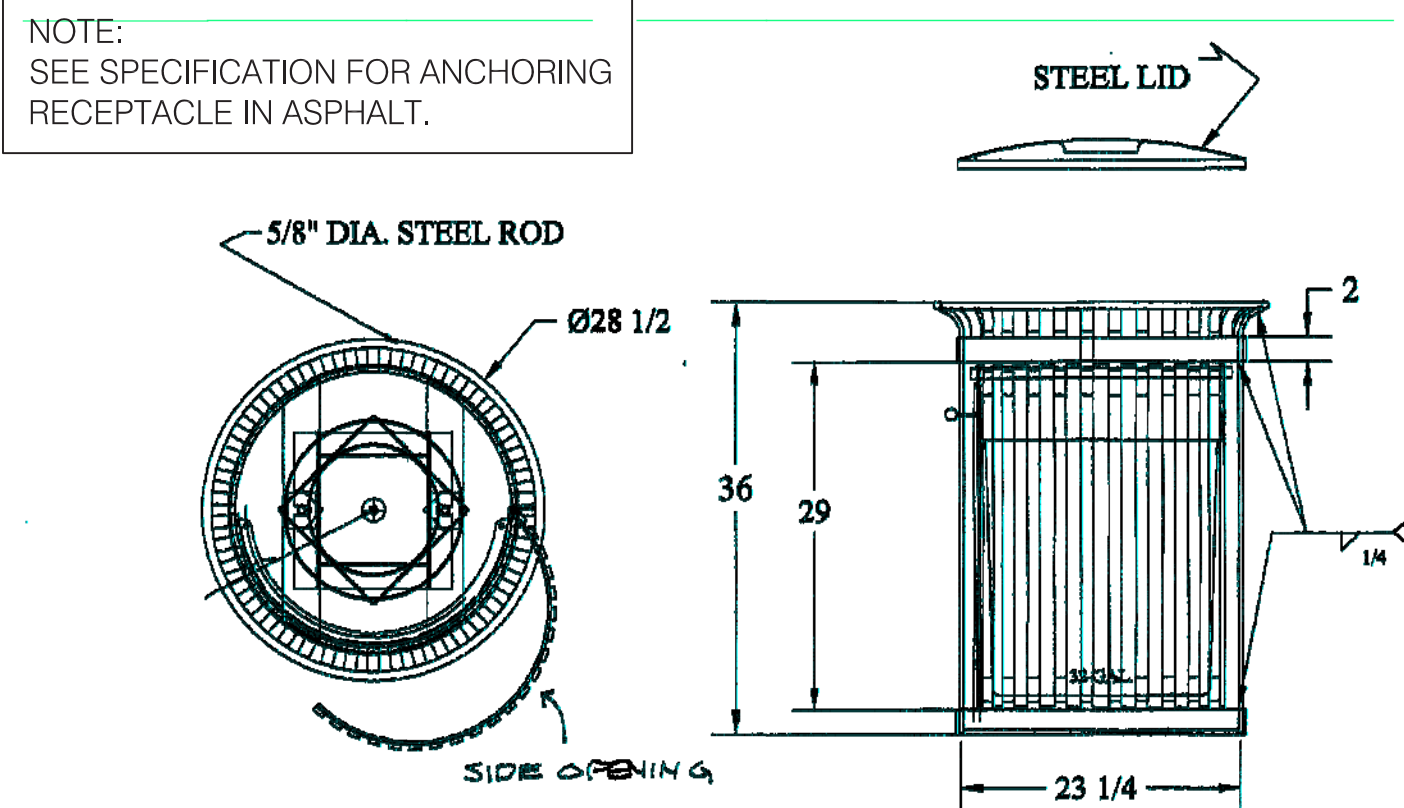
8 STEEL BARREL RECYCLING WITH DOOR
SCALE: 3/4" = 1'-0"



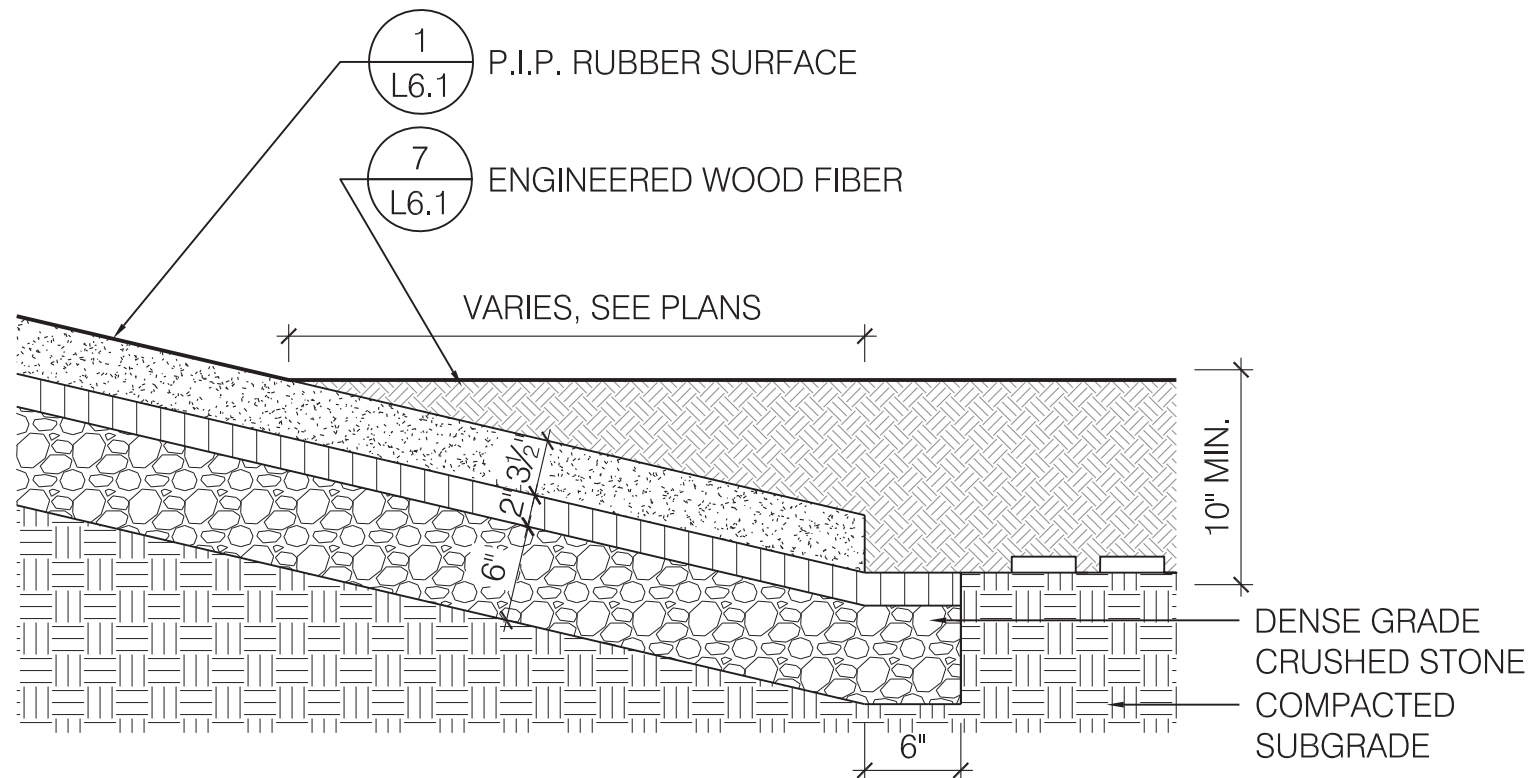
5 BIKE RACK
SCALE: 1" = 1'-0"



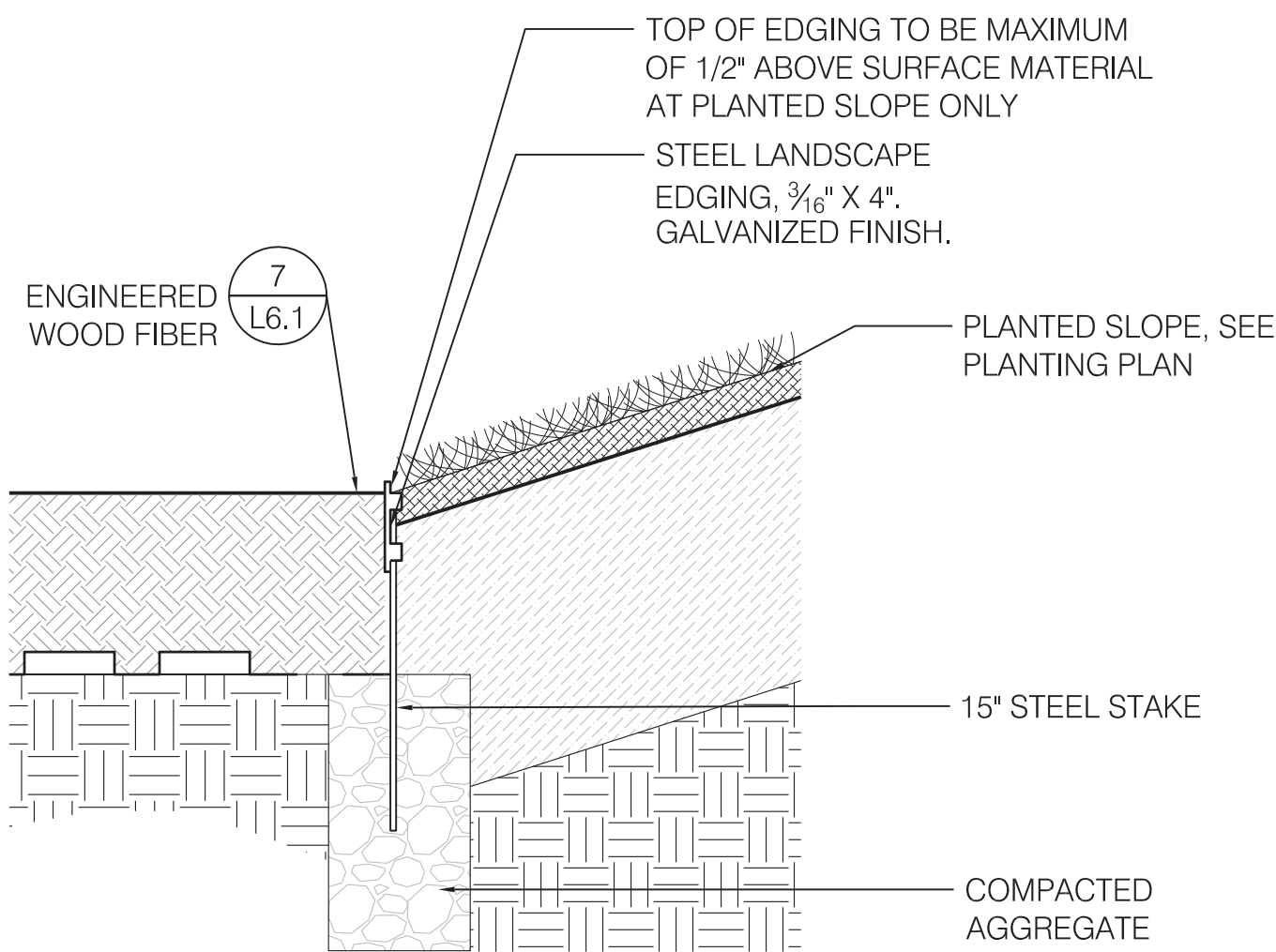
2 FLEXIBLE POROUS PAVEMENT @ EX. WALL & BIT. CONC. PATH
SCALE: 1 1/2" = 1'-0"



7 STEEL BARREL TRASH WITH DOOR
SCALE: 3/4" = 1'-0"

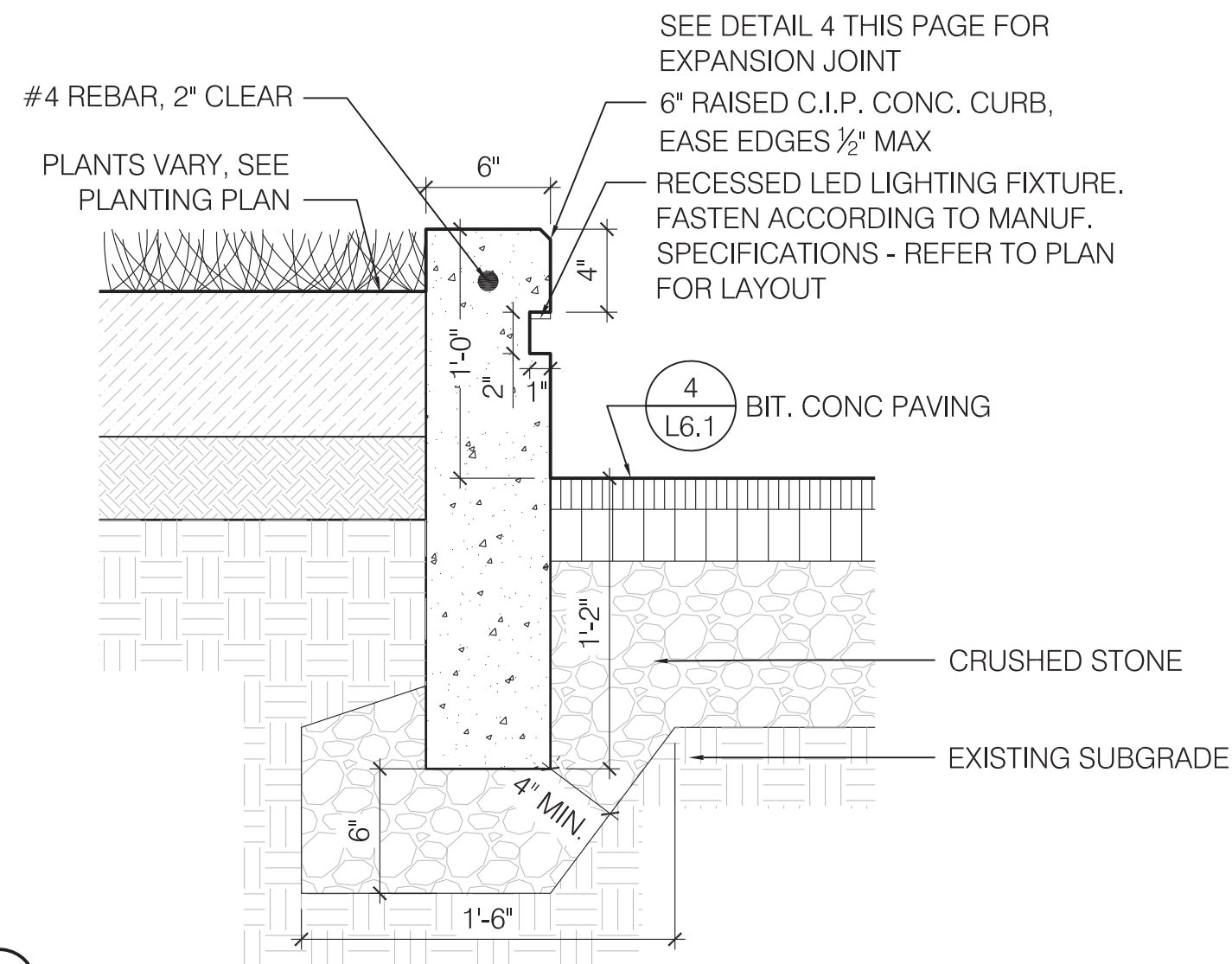


4 P.I.P. RUBBER TRANSITION SLOPE @ RUBBER SLOPE
SCALE: 1" = 1'-0"

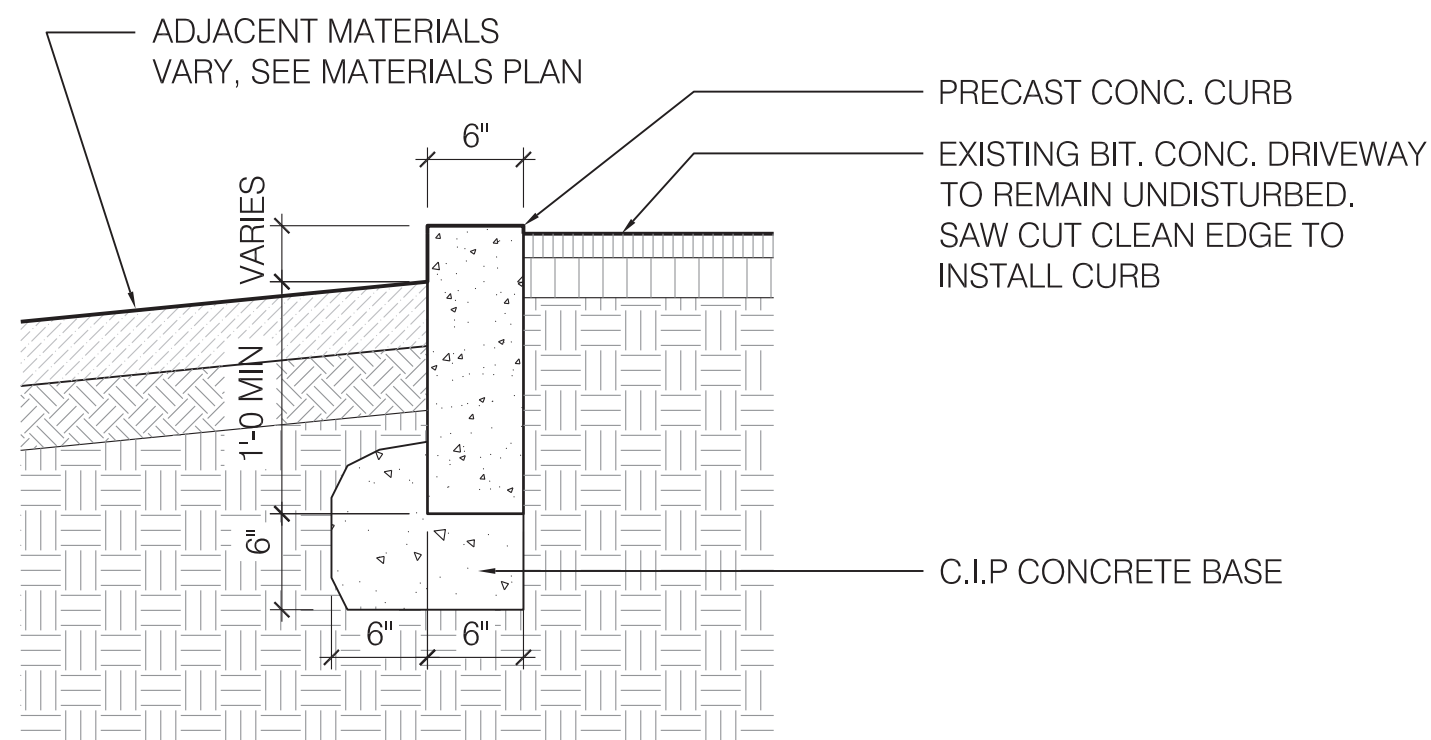


1 STEEL EDGING - ENG. WOOD FIBER @ PLANTED SLOPE
SCALE: 1 1/2" = 1'-0"

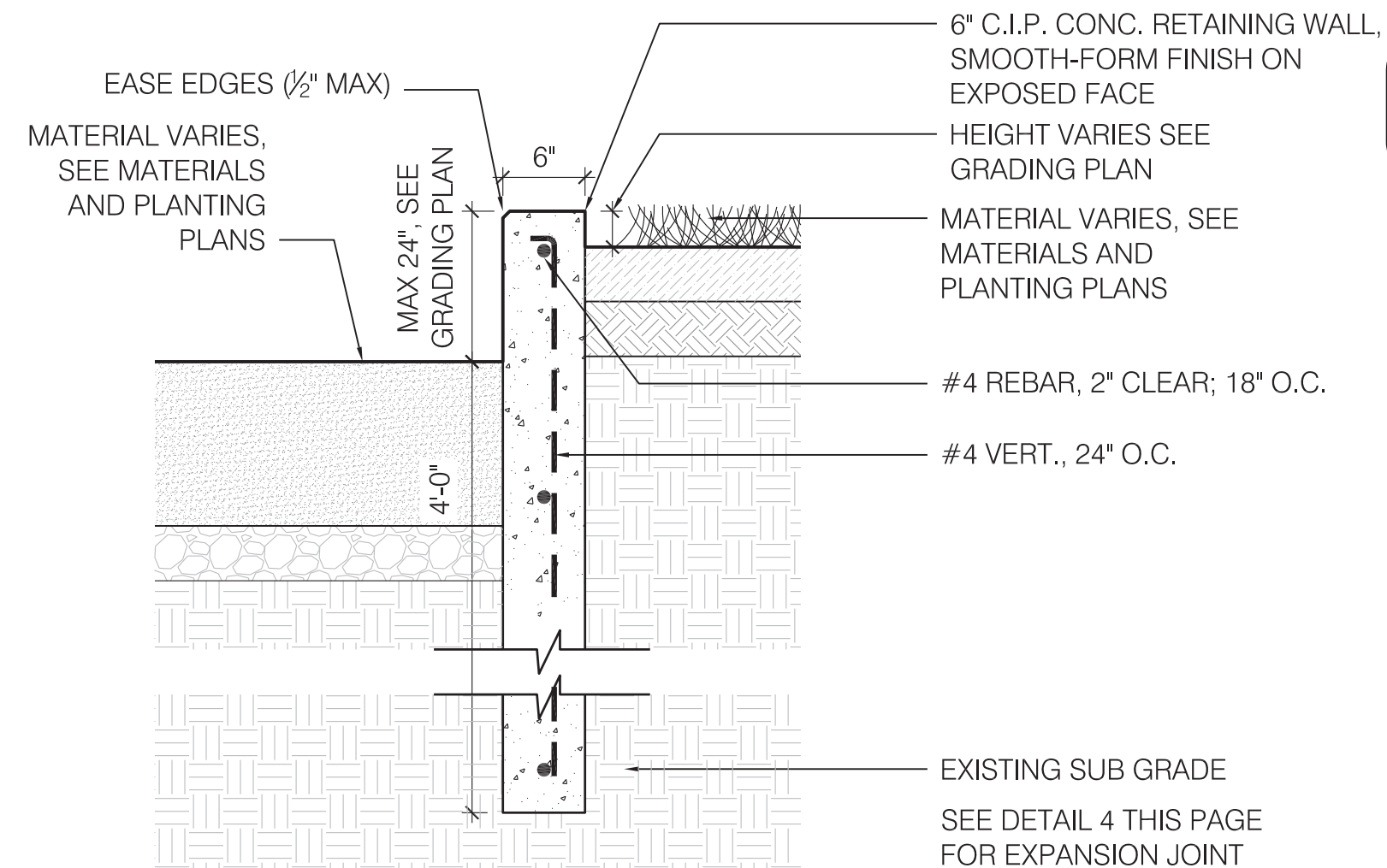
10 C.I.P. CONC. CURB WITH RECESSED TAPE LIGHT FIXTURE
SCALE: 1 1/2" = 1'-0"



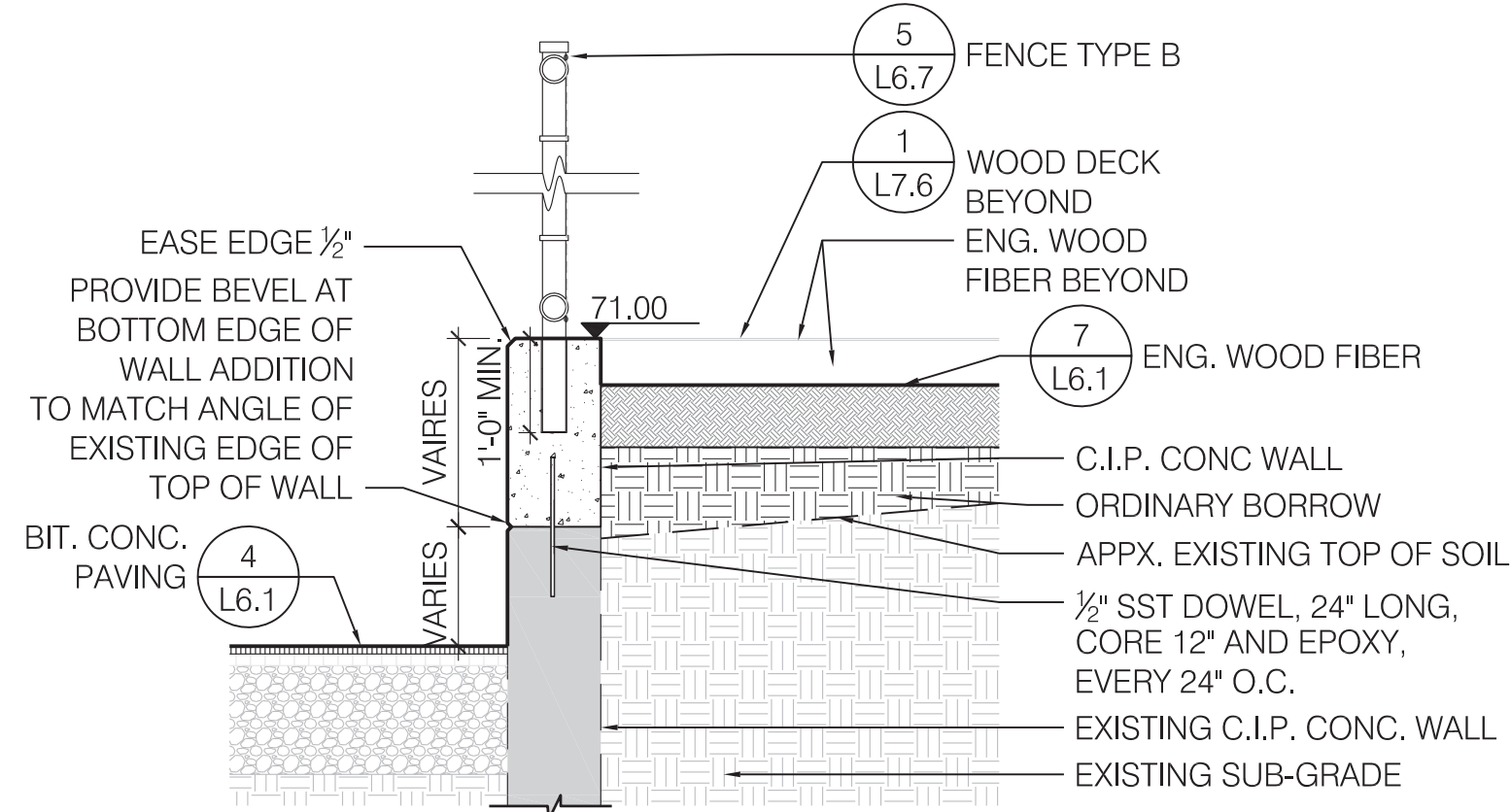
9 6 IN. WIDE PRECAST CONC. CURB
SCALE: 1" = 1'-0"



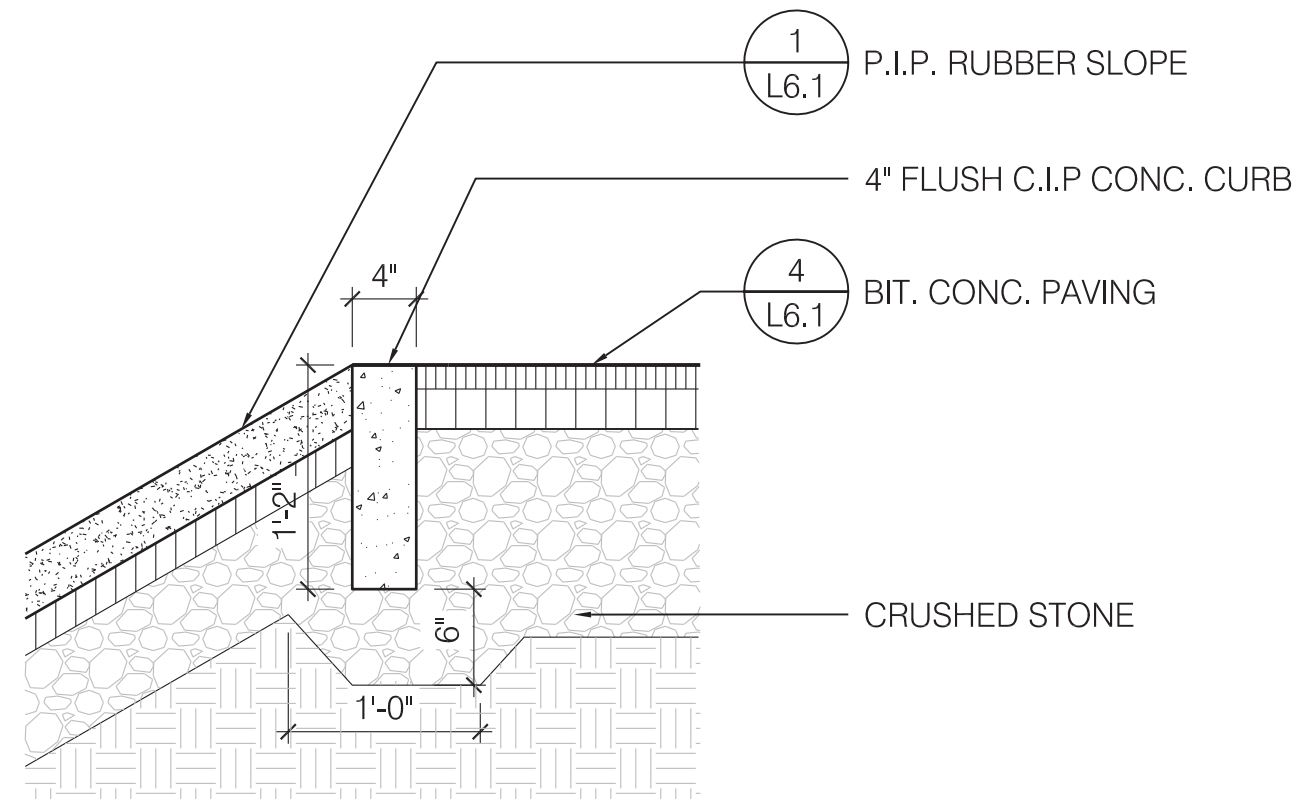
8 6 IN. WIDE C.I.P. CONC. RETAINING WALL
SCALE: 1" = 1'-0"



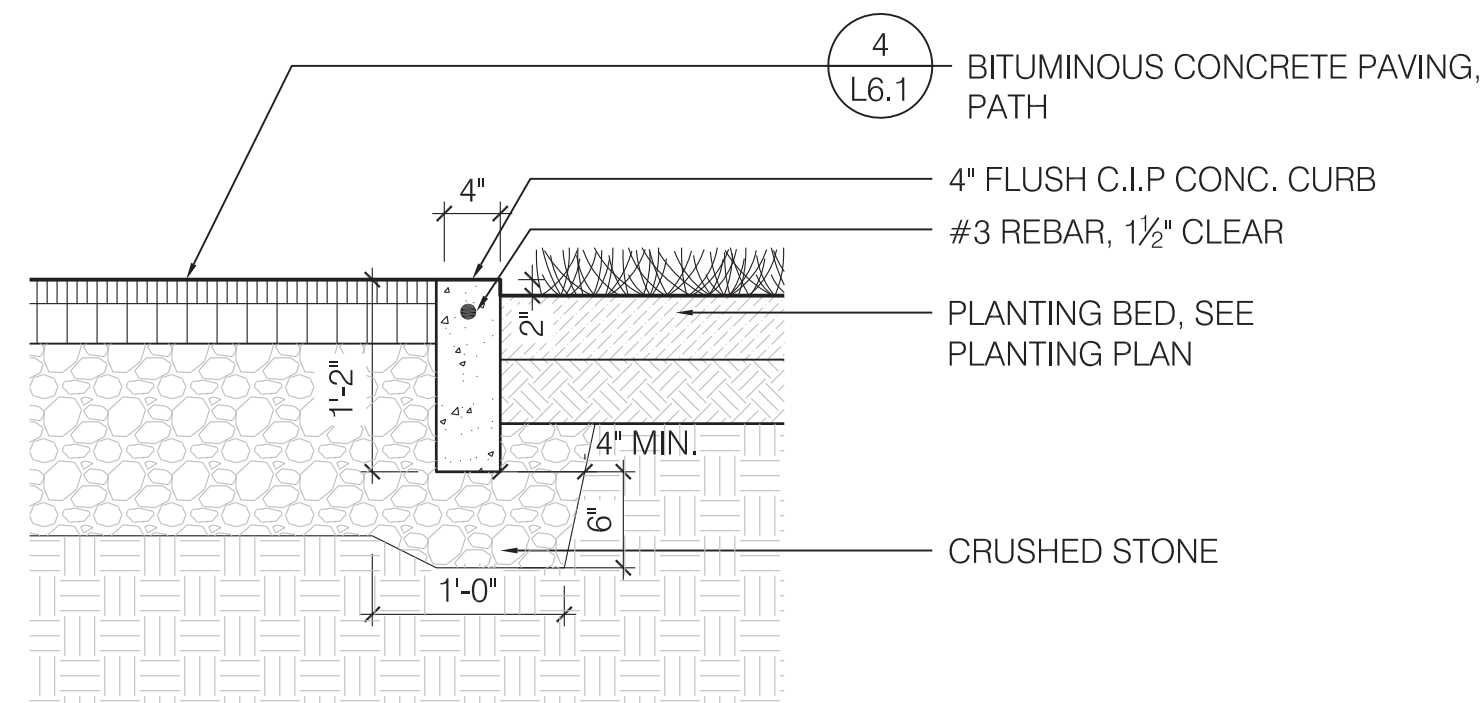
7 C.I.P. CONC. WALL ON EX. CONC. WALL
SCALE: 1/2" = 1'-0"



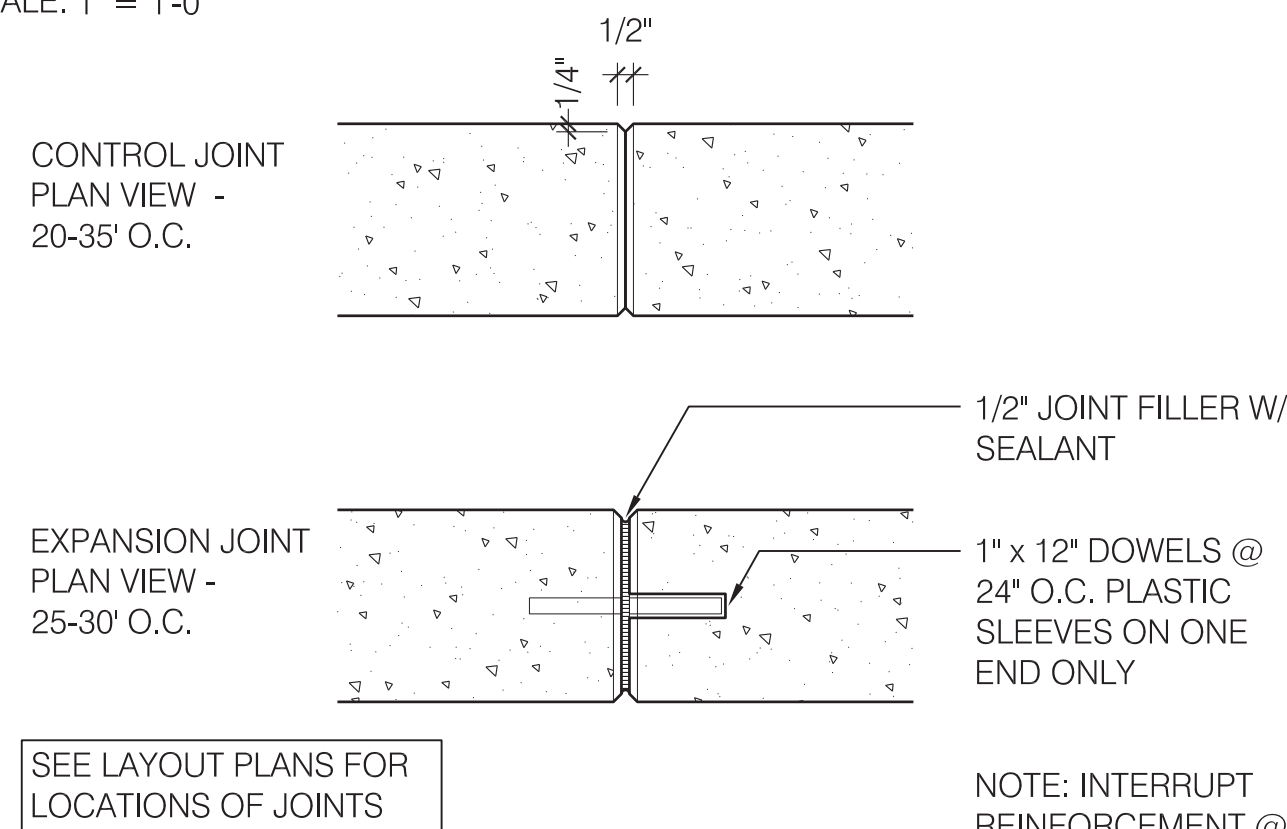
6 4 IN. WIDE FLUSH C.I.P. CONC. CURB @ RUBBER SLOPE
SCALE: 1" = 1'-0"



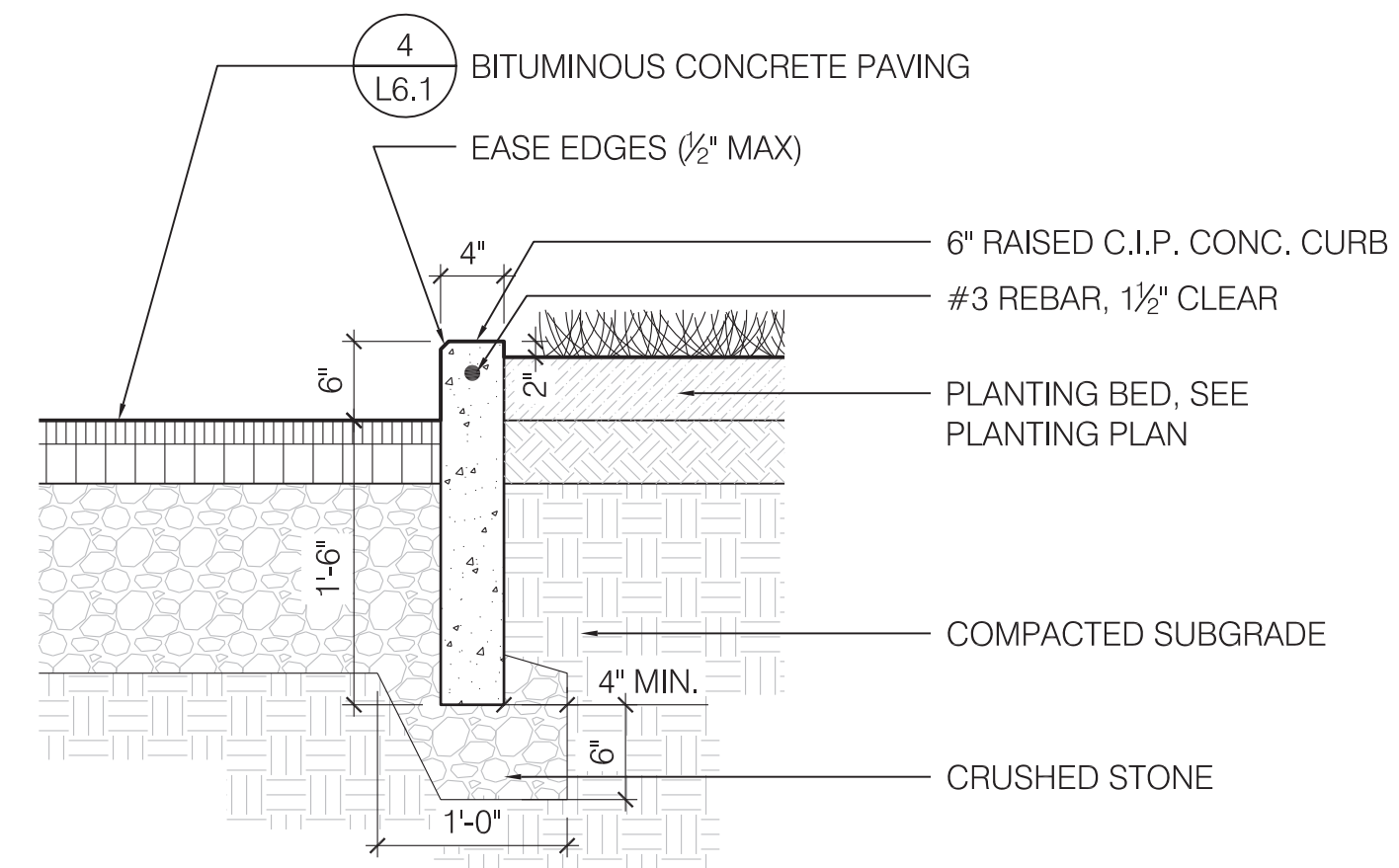
5 4 IN. WIDE FLUSH C.I.P. CONC. CURB
SCALE: 1" = 1'-0"



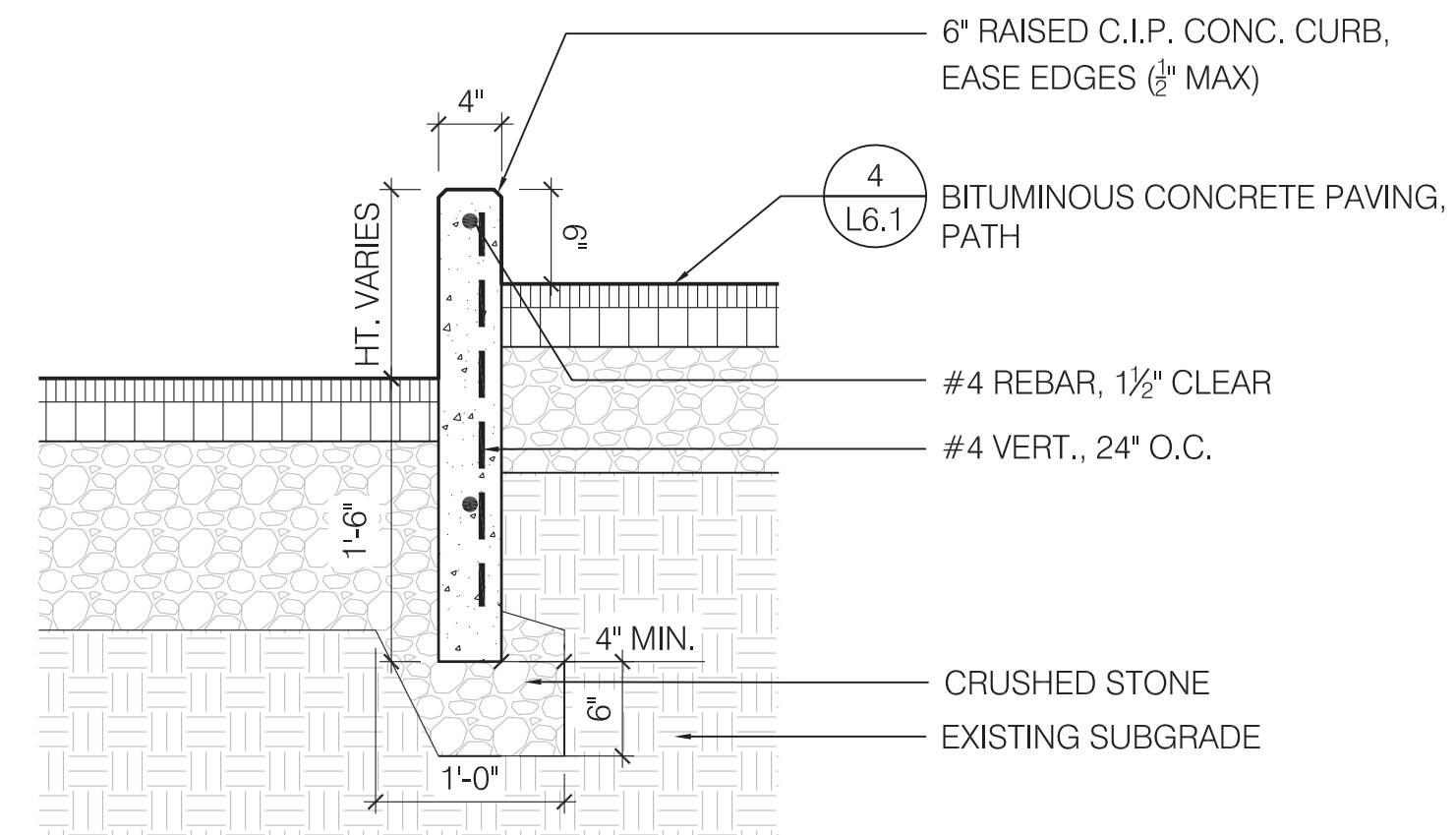
4 CONTROL AND EXPANSION JOINTS
SCALE: 1" = 1'-0"



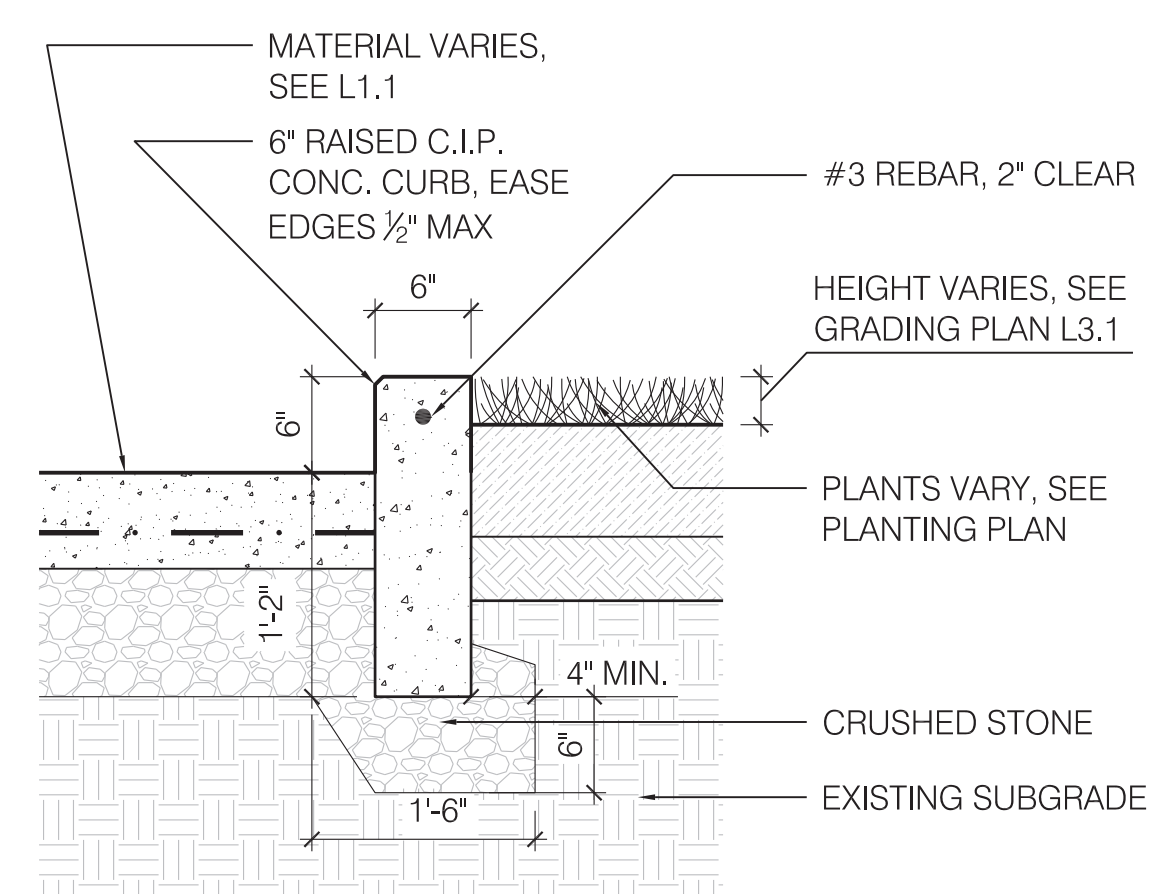
3 4 IN. WIDE RAISED C.I.P. CONC. CURB @ PLANTING
SCALE: 1" = 1'-0"

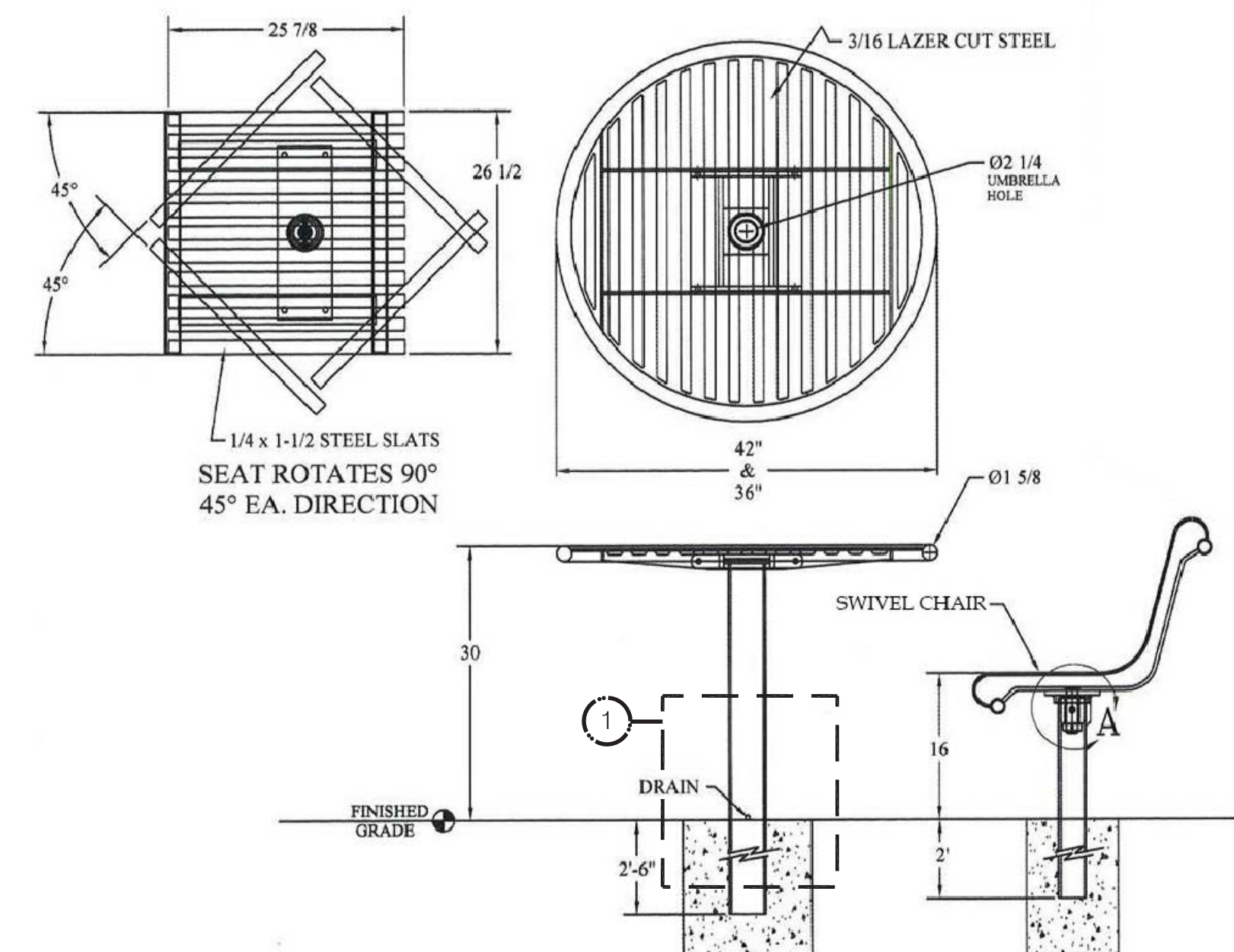
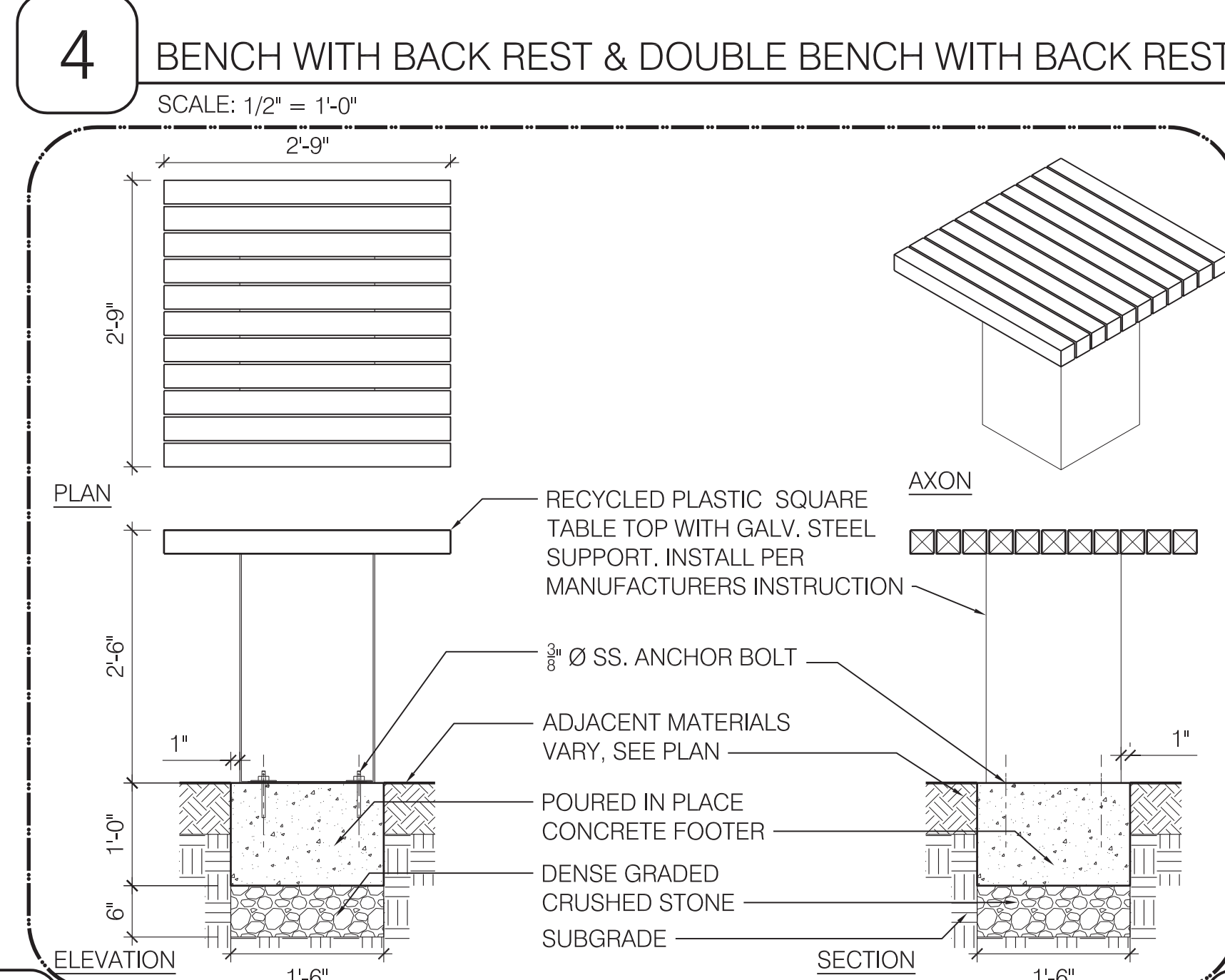
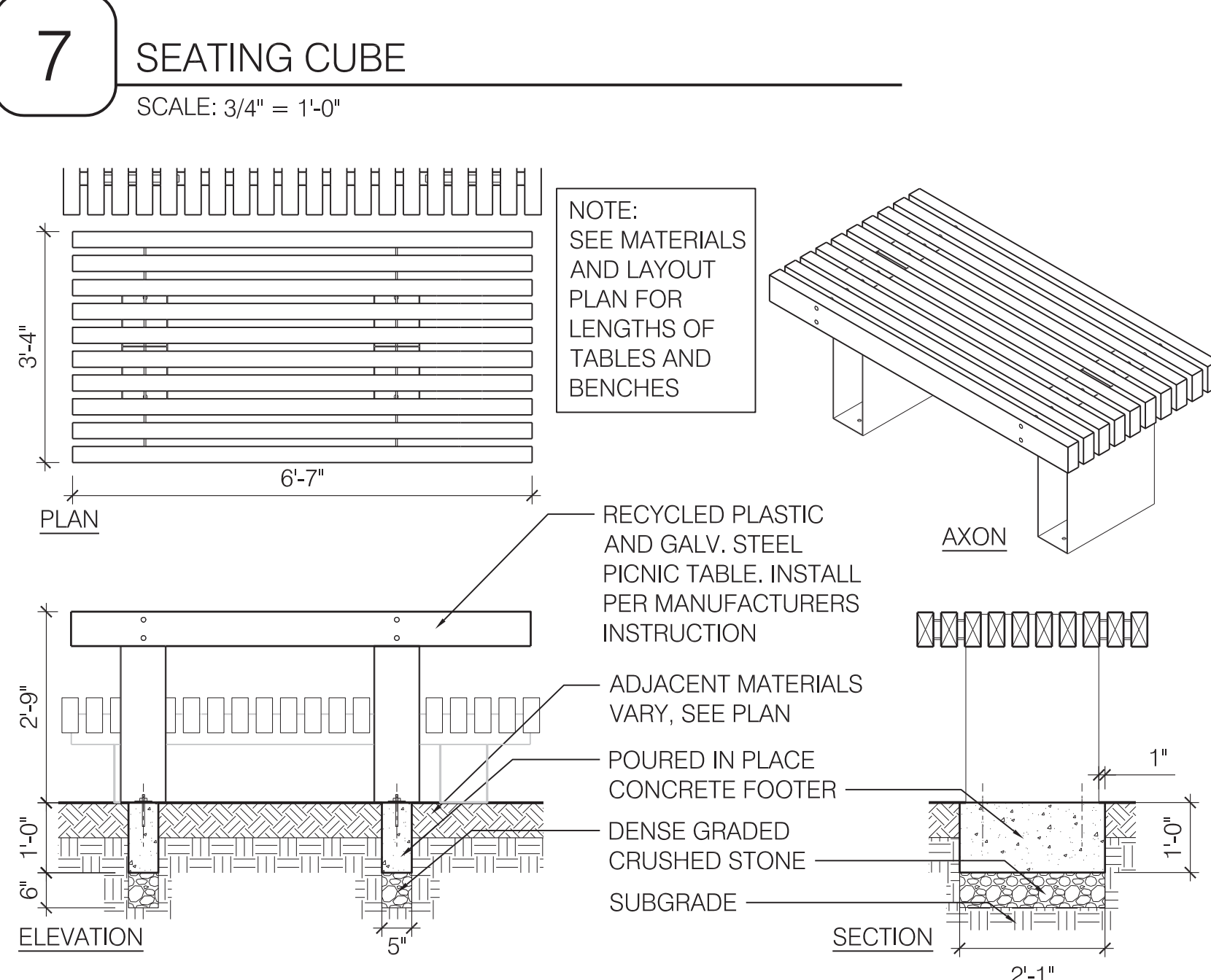
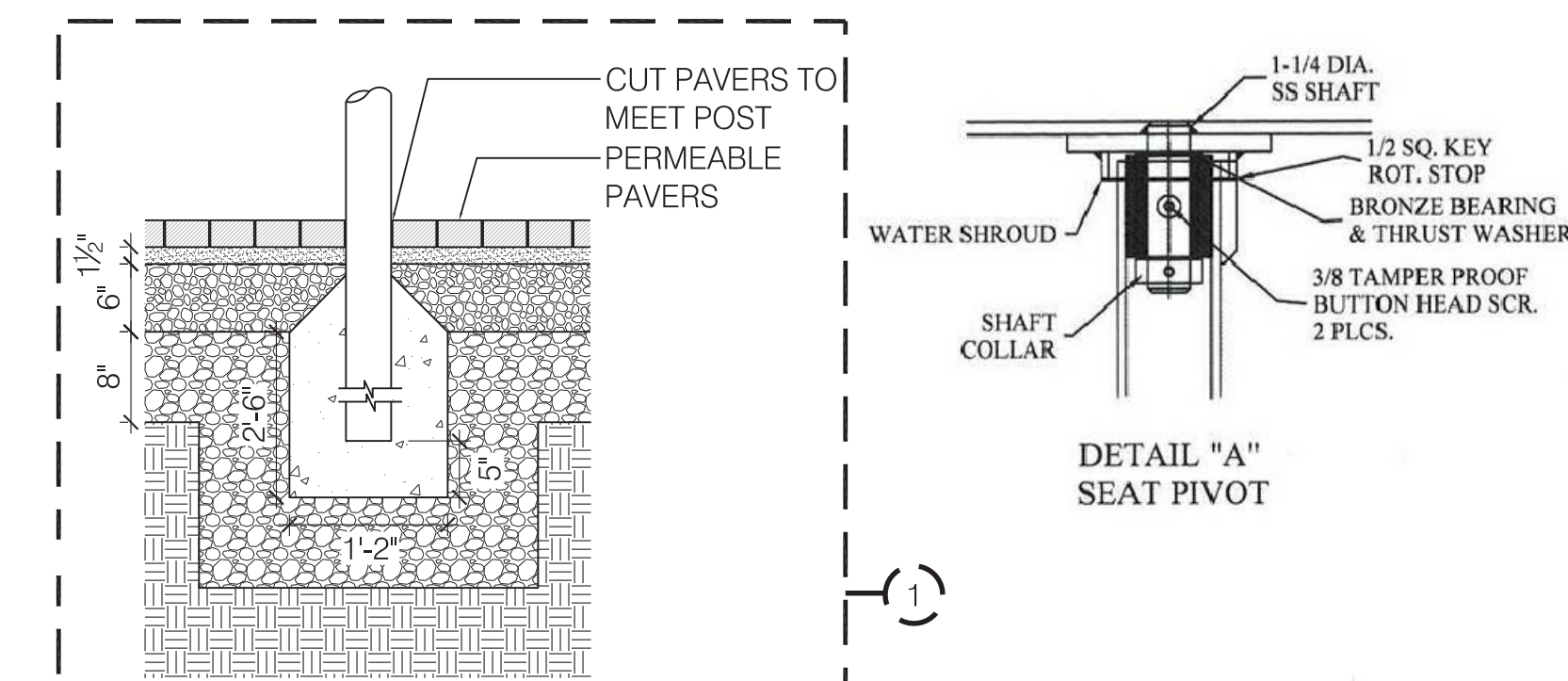
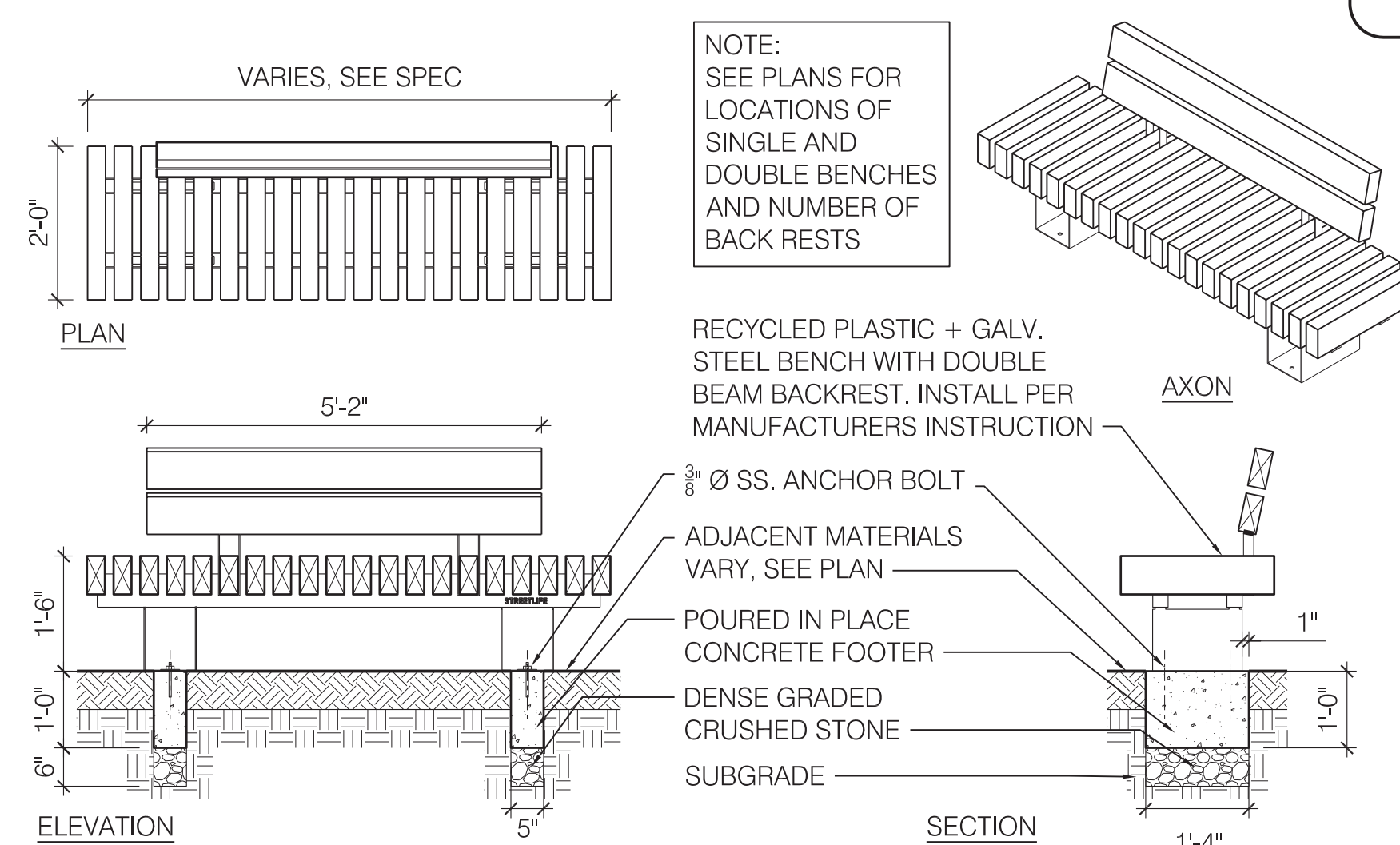
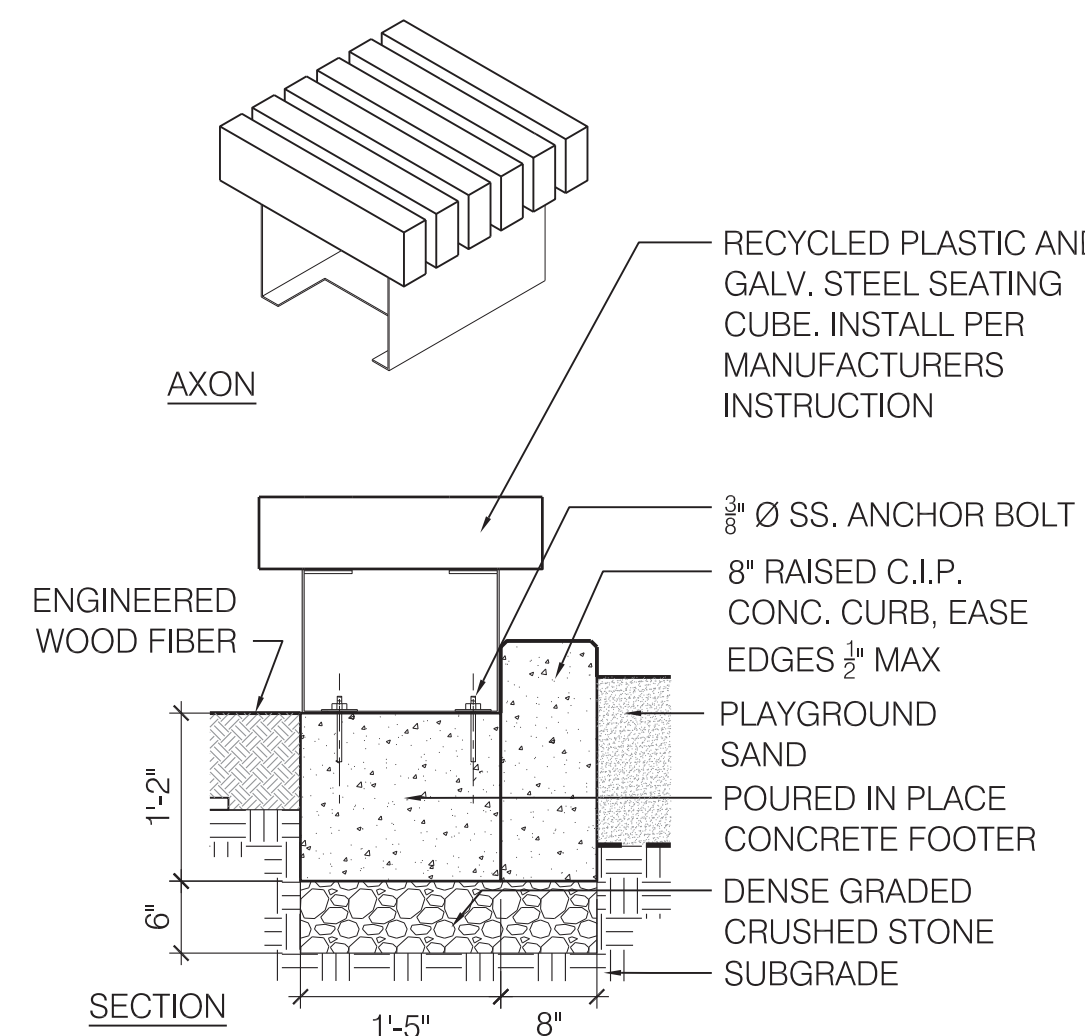
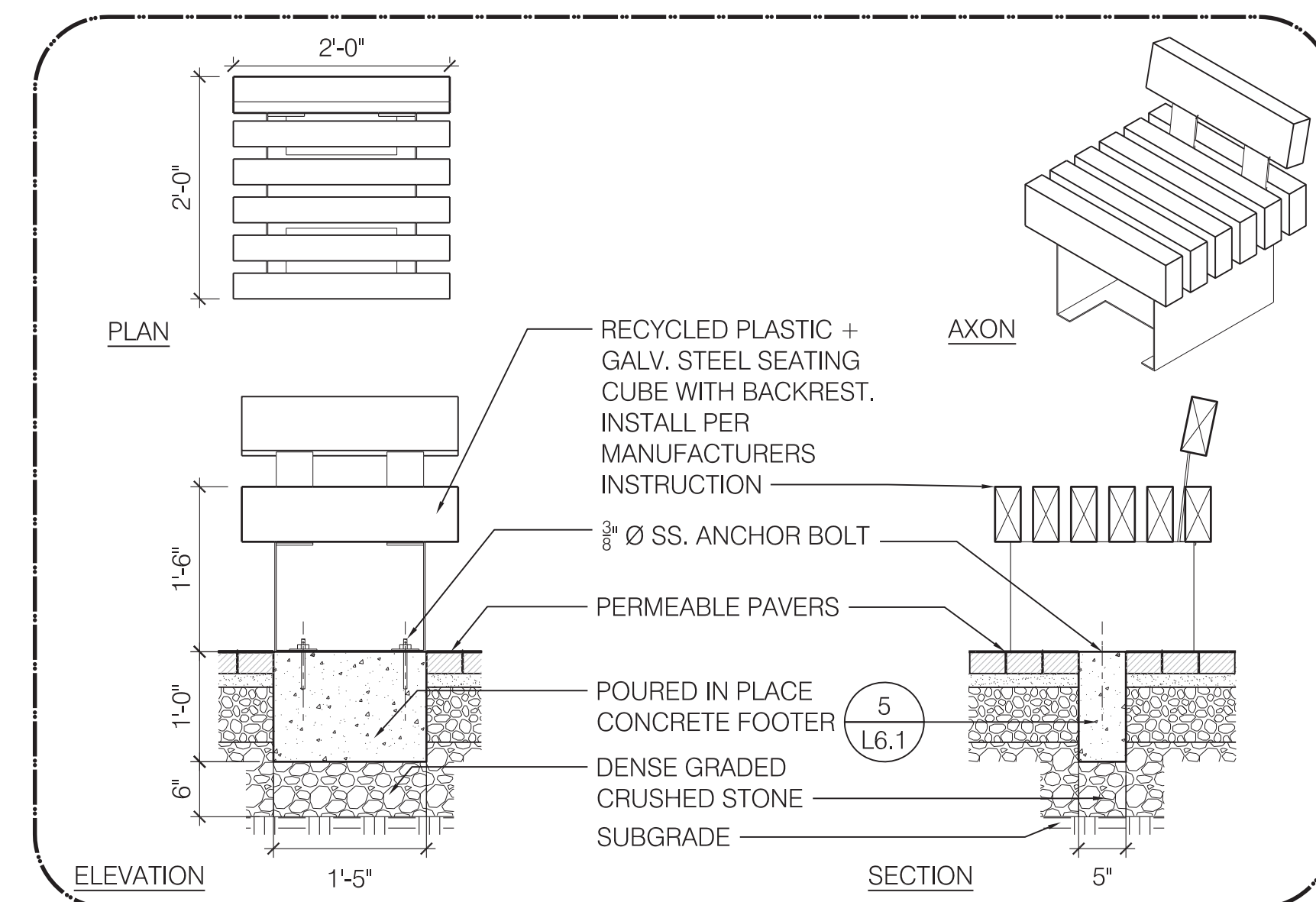
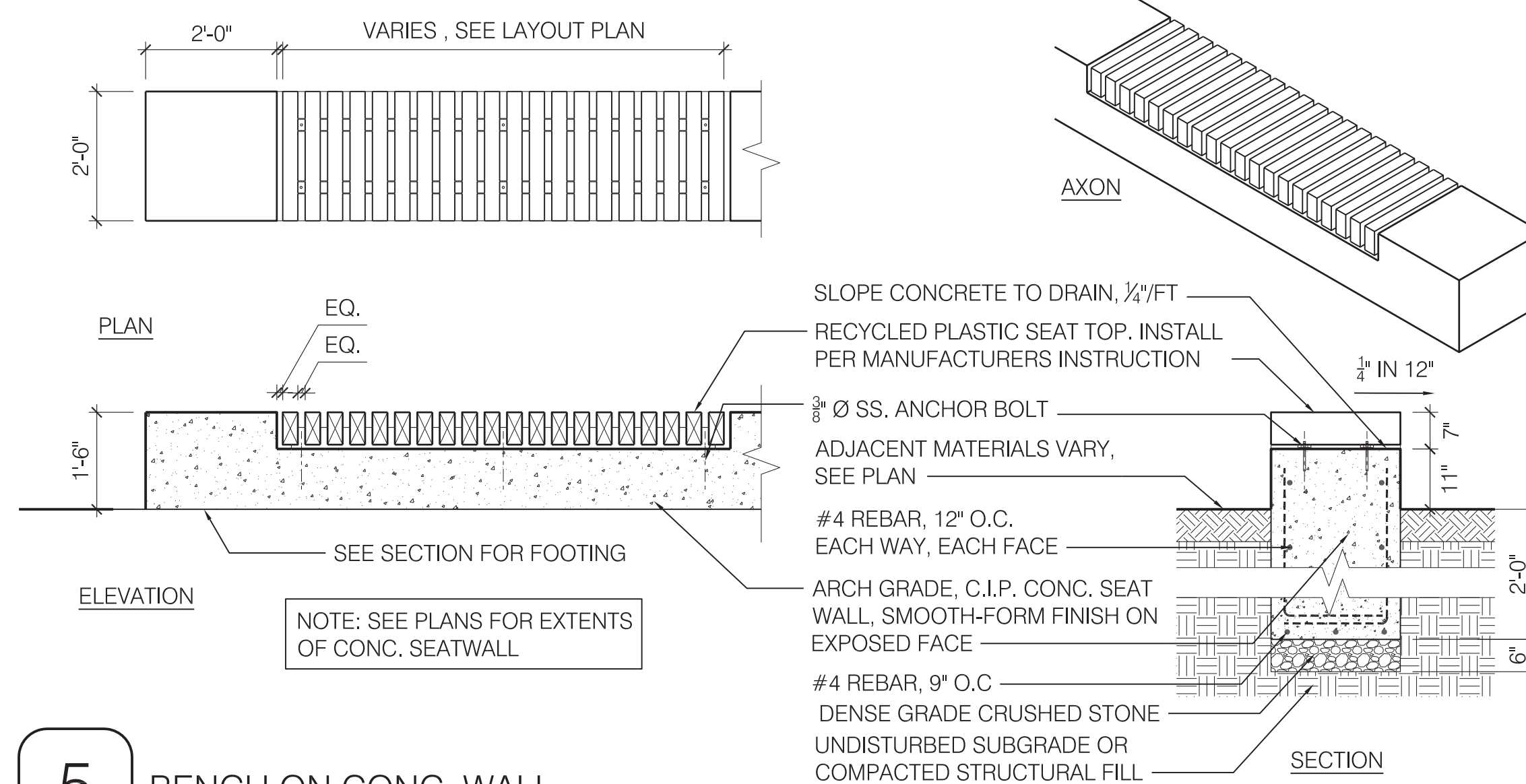


2 4 IN. WIDE RAISED C.I.P. CONC. CURB - HEIGHT VARIES
SCALE: 1" = 1'-0"



1 6 IN. WIDE RAISED C.I.P. CONC. CURB
SCALE: 1" = 1'-0"







UPPER BASIN
UNDULATING SURFACE
BEYOND
TOP OF 2" DIA. DRAIN @
LOW POINT OF UPPER BASIN
OUTLET TO LOWER BASIN
UPPER BASIN NOTCHED TO REST ON
LOWER BASIN, BEYOND

UPPER BASIN FOOTER,
BEYOND
SIDE OF UPPER BASIN,
BEYOND

GRADE

1-9"

5"

3-0" MIN

1-0"

5'-0"

SLOPED LOWER BASIN
WALL BEYOND

WATER GATE,
CAST INTO PRECAST
CONC. WATER BASIN

7 1/4"

1'-2 1/4"

6 (L.6.1)

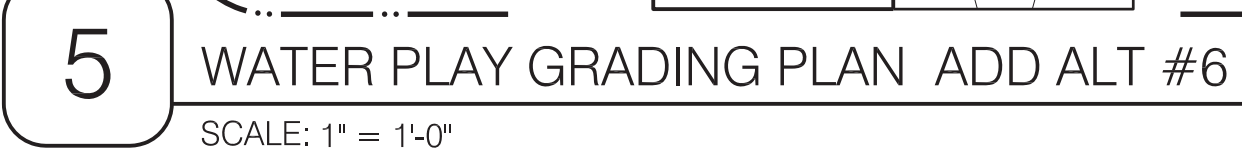
SAND

C.I.P. CONCRETE
FOOTER

COMPACTED FILL
OR SUBGRADE

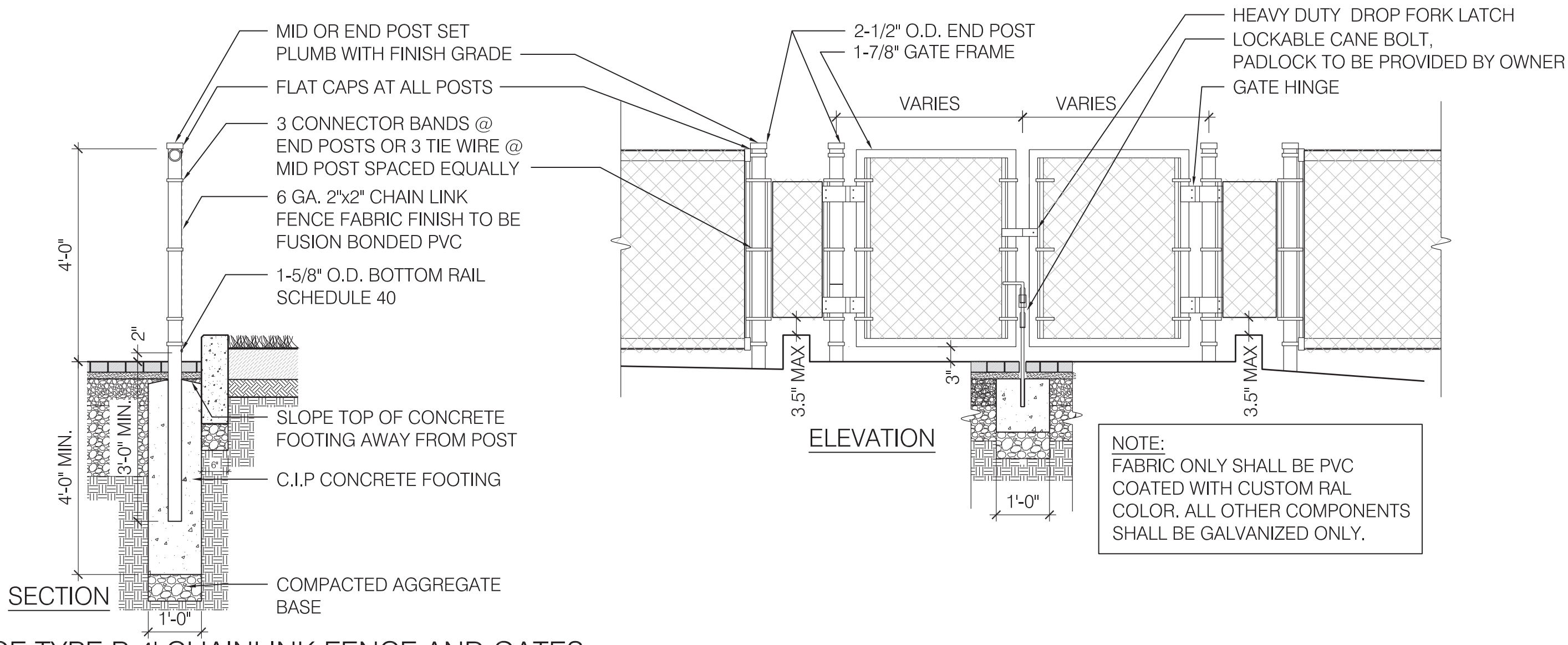
WATER PLAY SECTION ADD ALT #6

SCALE: 1" = 1'-0"



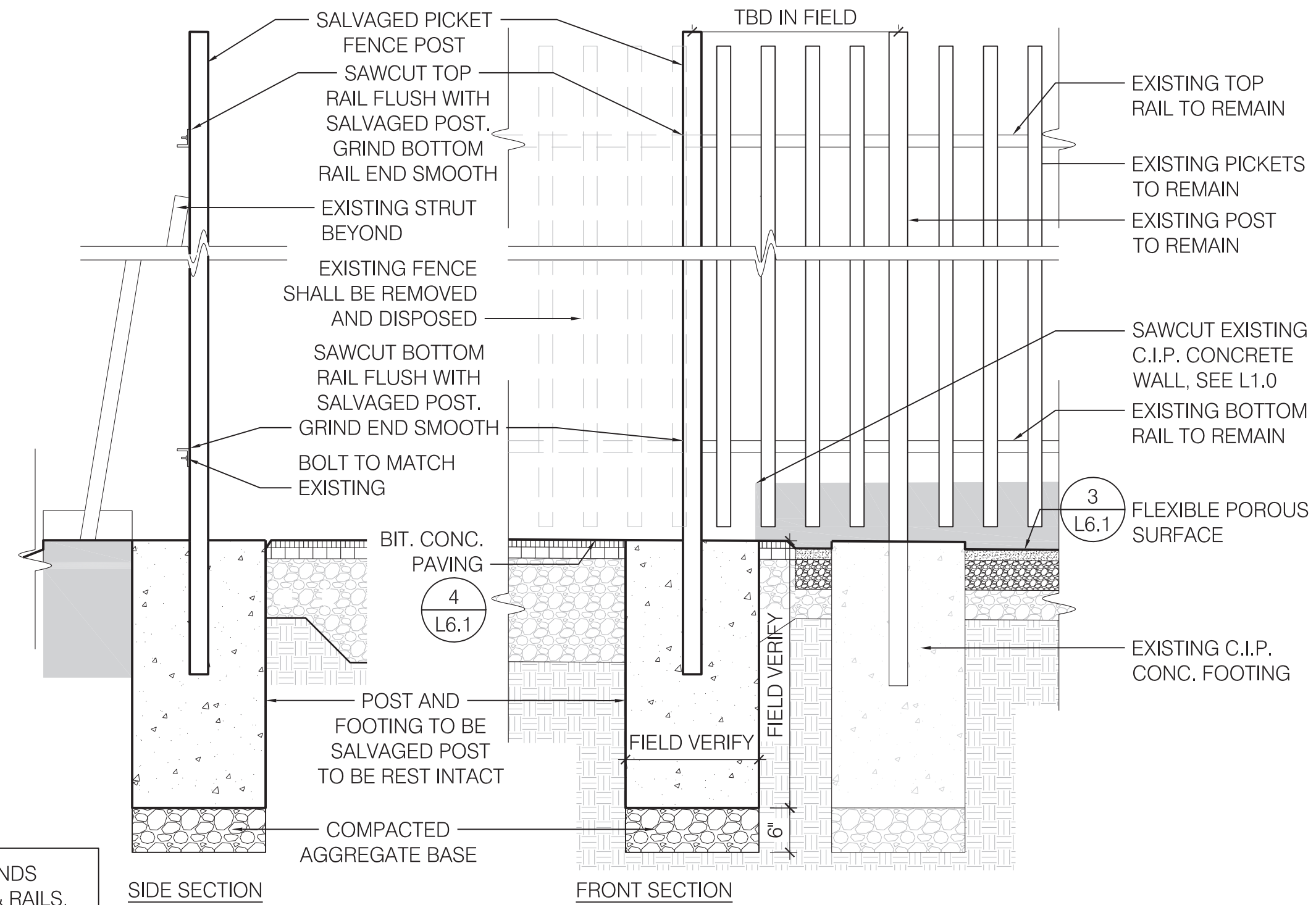


L6.7



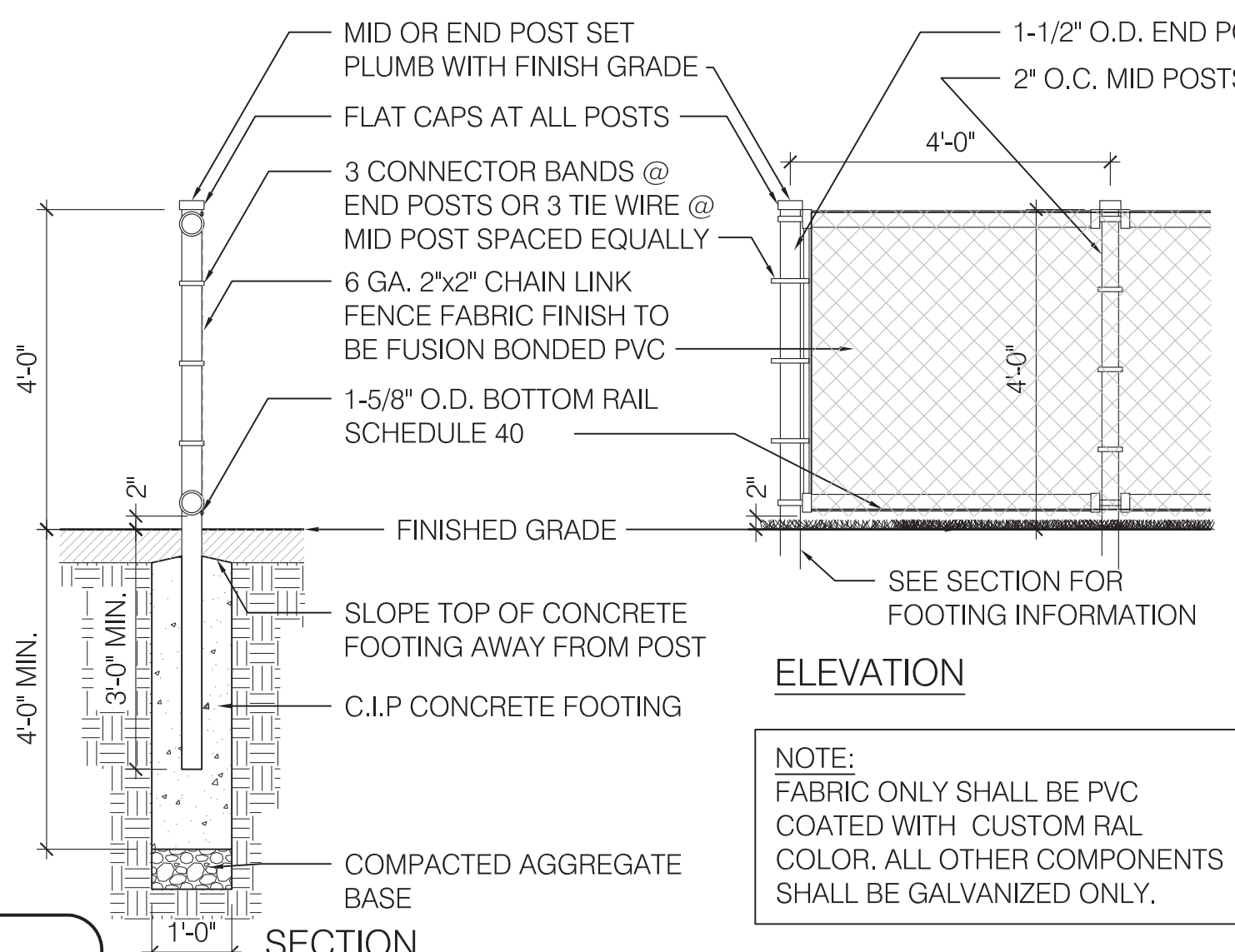
6 FENCE TYPE B 4' CHAINLINK FENCE AND GATES

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



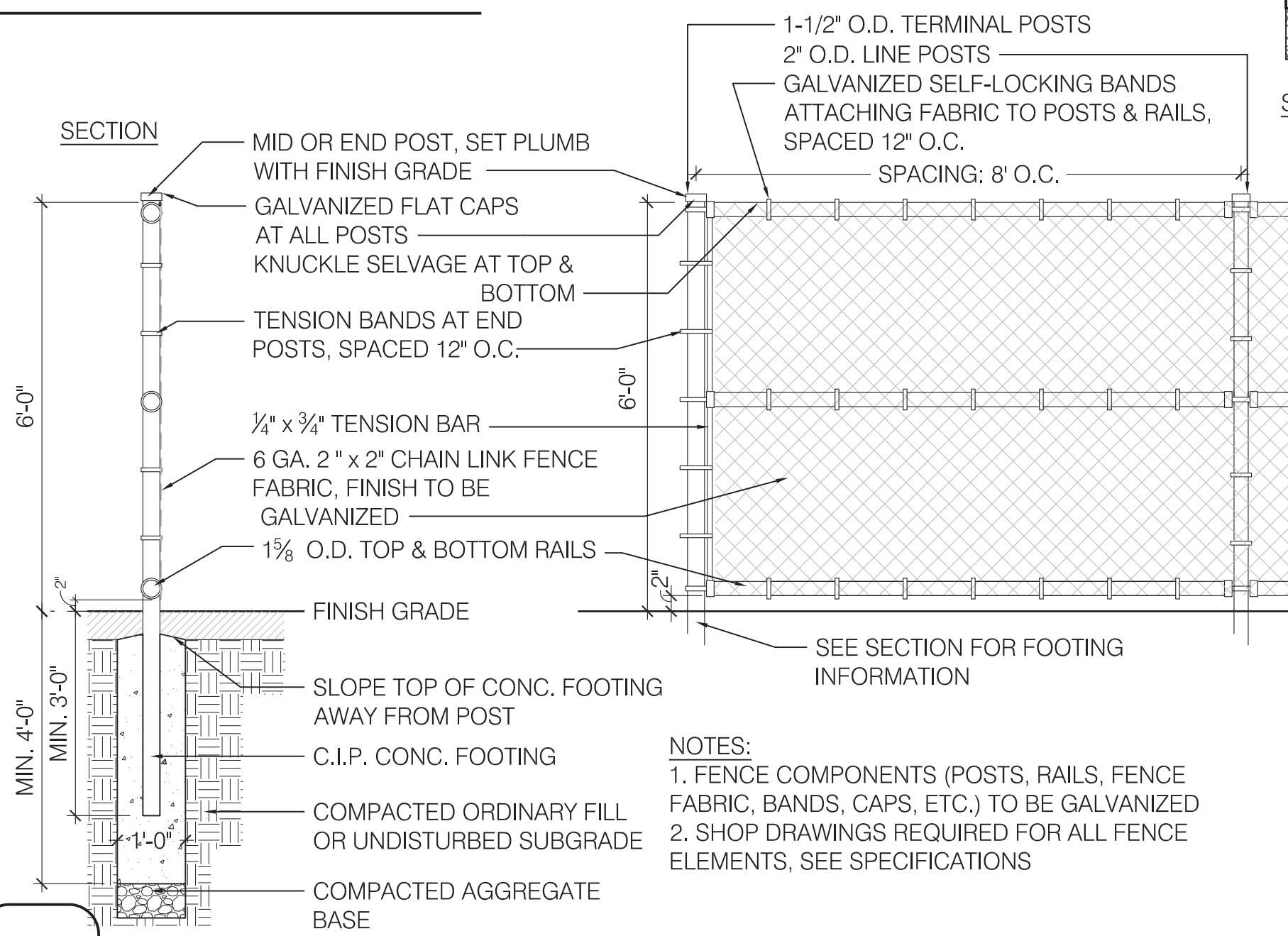
3 SALVAGED AND RESET PICKET FENCE POST

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



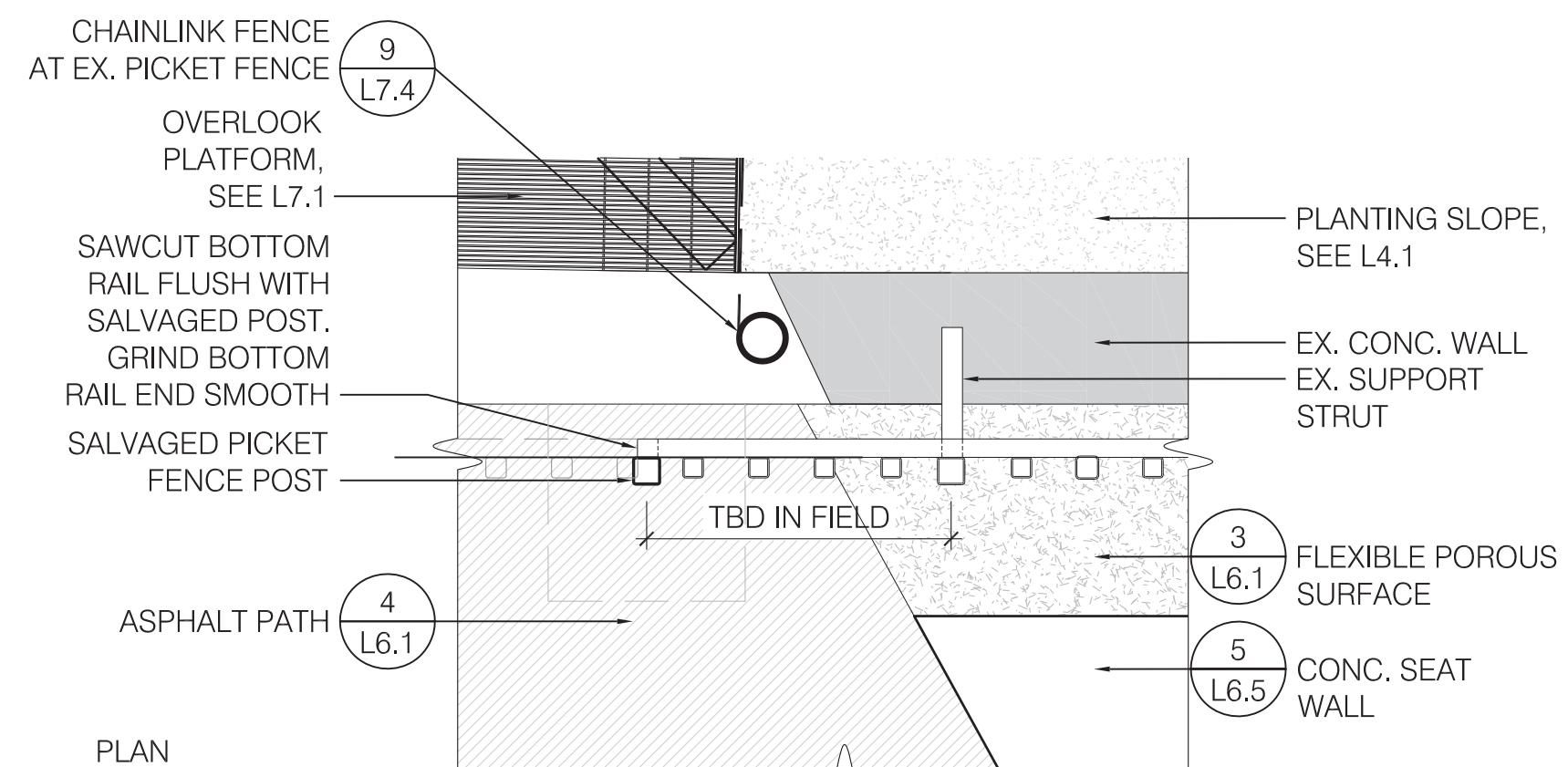
5 FENCE TYPE B - 4' CHAIN LINK FENCE

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



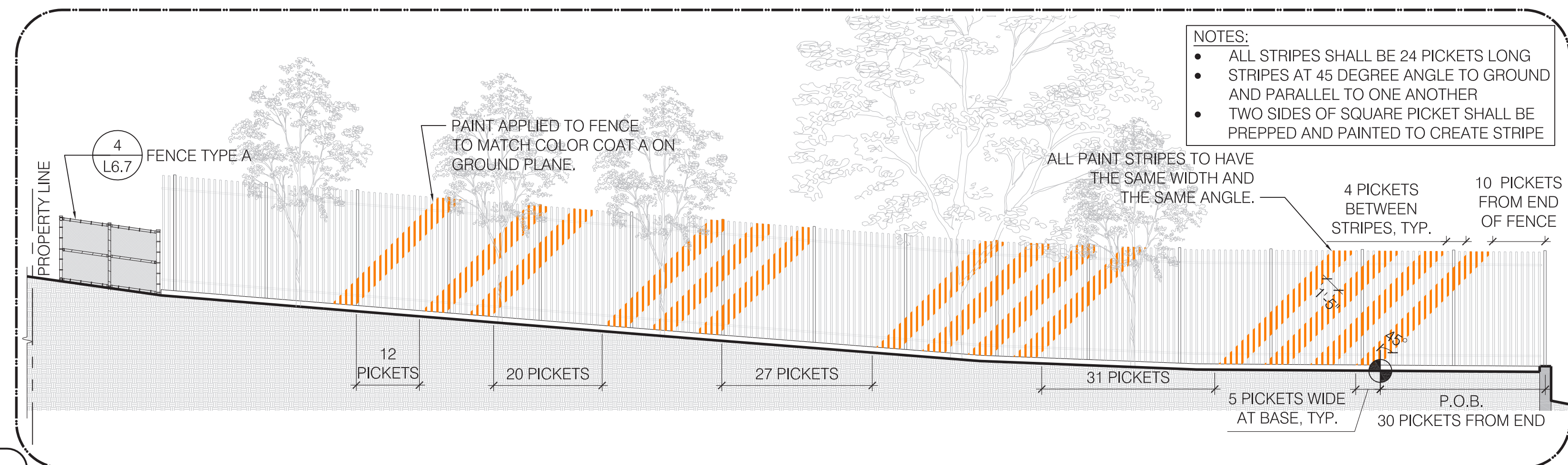
4 FENCE TYPE A - 6' CHAINLINK FENCE ELEVATION

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



2 PICKET FENCE PAINT@ OVERLOOK ADD ALT #5

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



1 PICKET FENCE PAINT @ BACK ADD ALT #5

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

CLIENT:
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MASSACHUSETTS**
DIRECTOR OF PARKS AND OPEN SPACE
ARN FRANZEN
t: 617.625.6600x2545
afranzen@somervillema.gov

REVISIONS:	
REV	DATE NOTE

PROJECT: KMDG #1604
**HOYT SULLIVAN
PLAYGROUND**
117 CENTRAL STREET
SOMERVILLE, MA 02145

DRAWING:

PLANTING DETAILS 1

DRAWN: EH REVIEW: SK

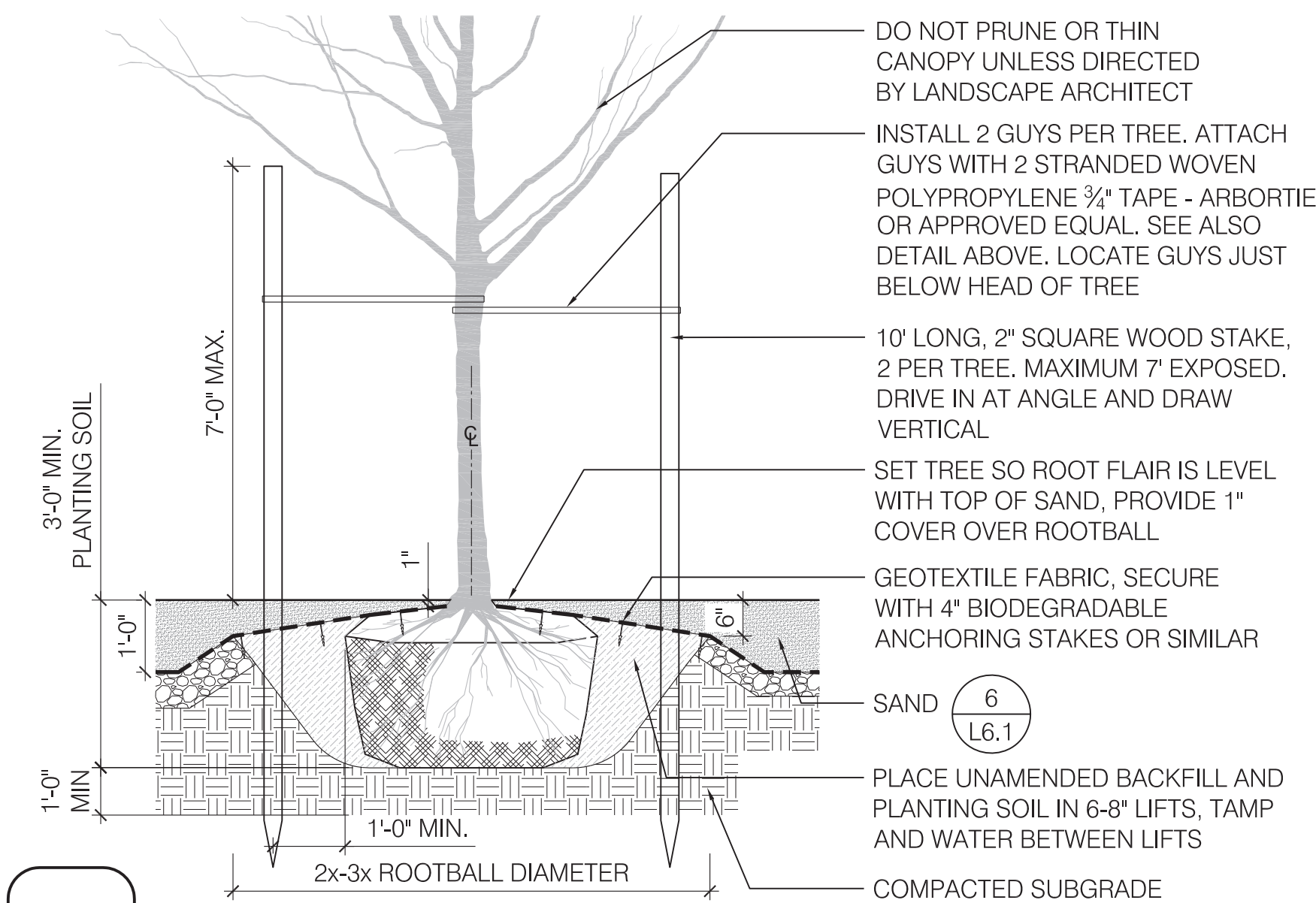
SCALE: AS NOTED

DATE: 16 FEBRUARY 2017

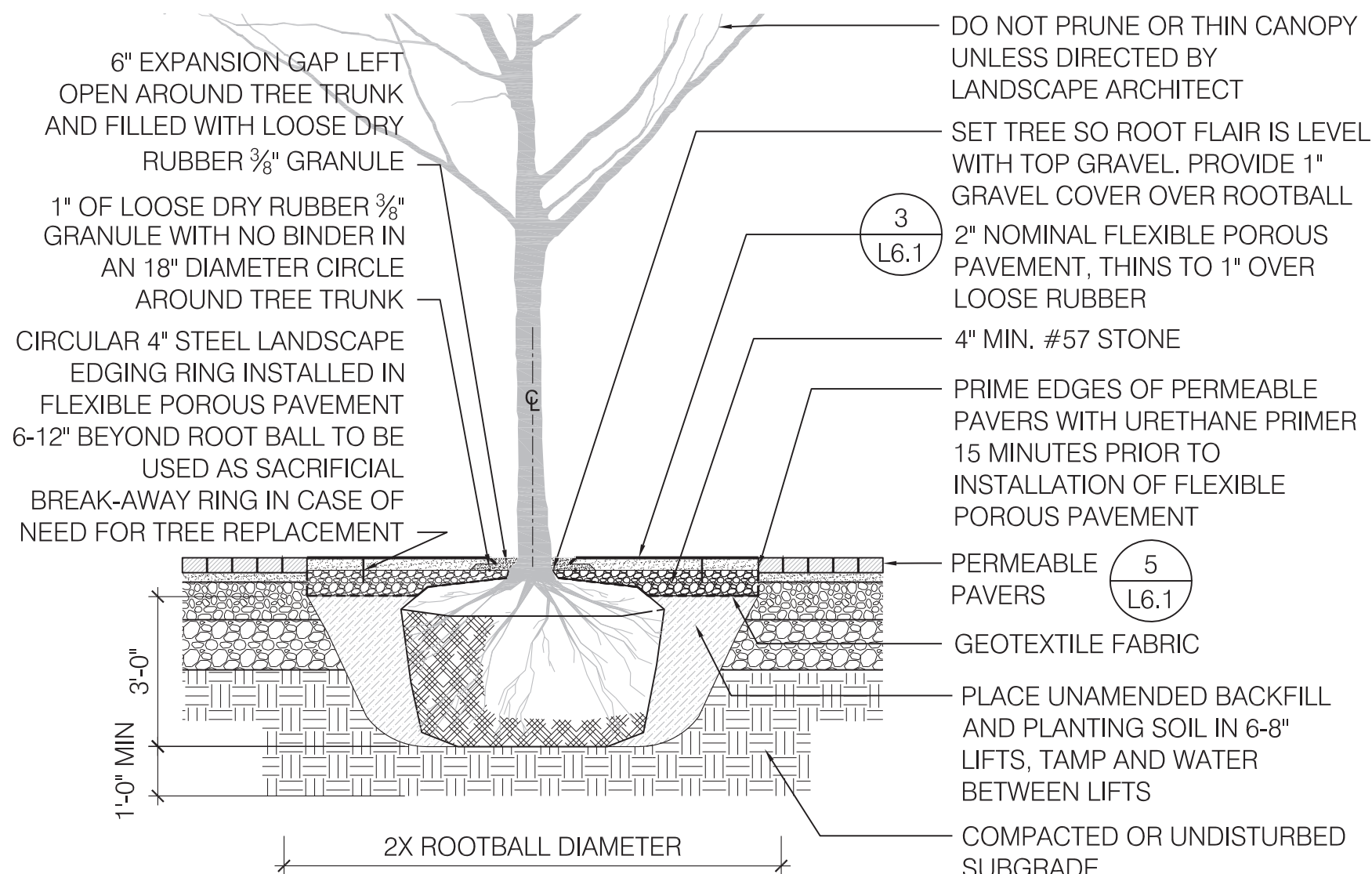
SHEET:



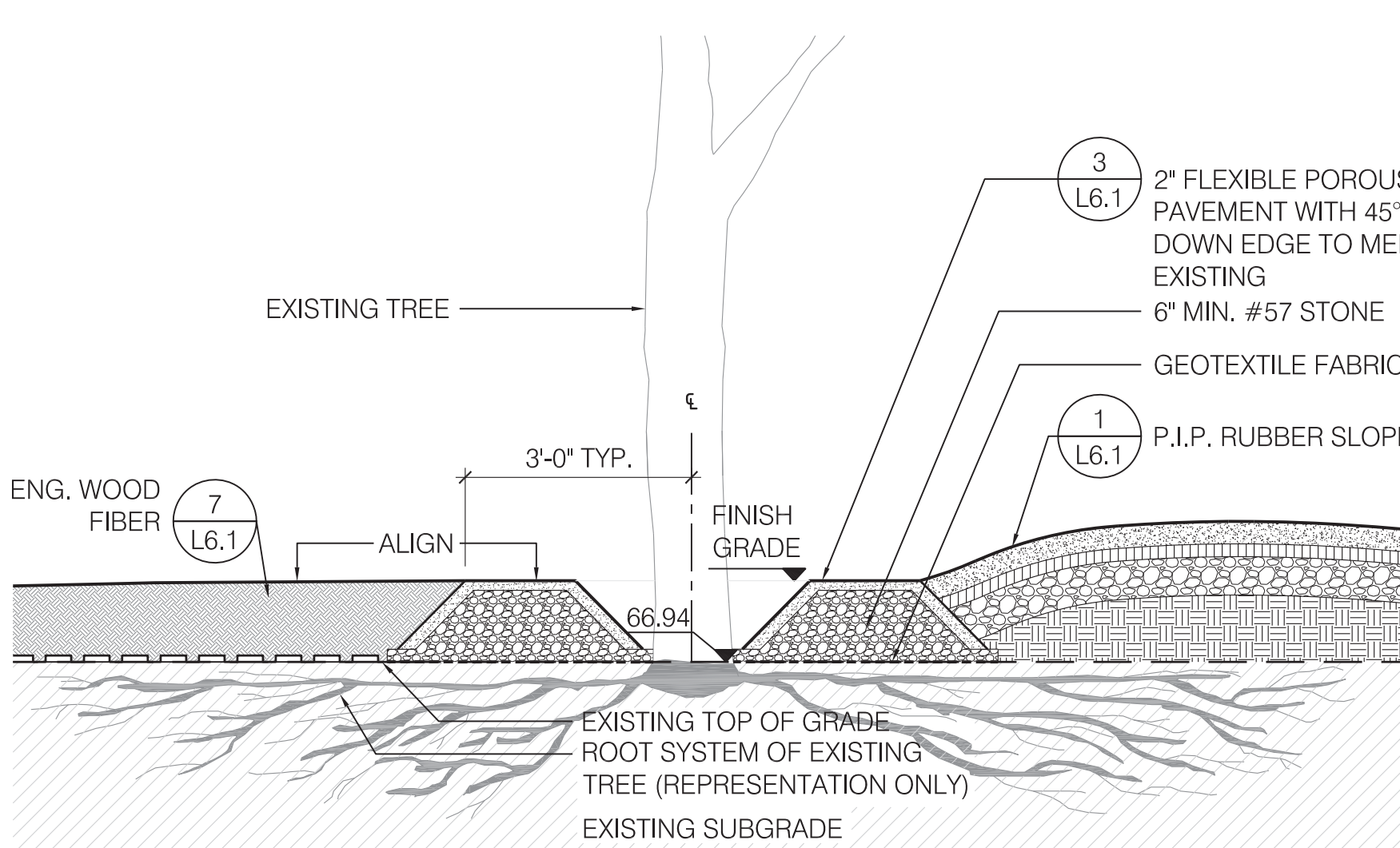
L6.8



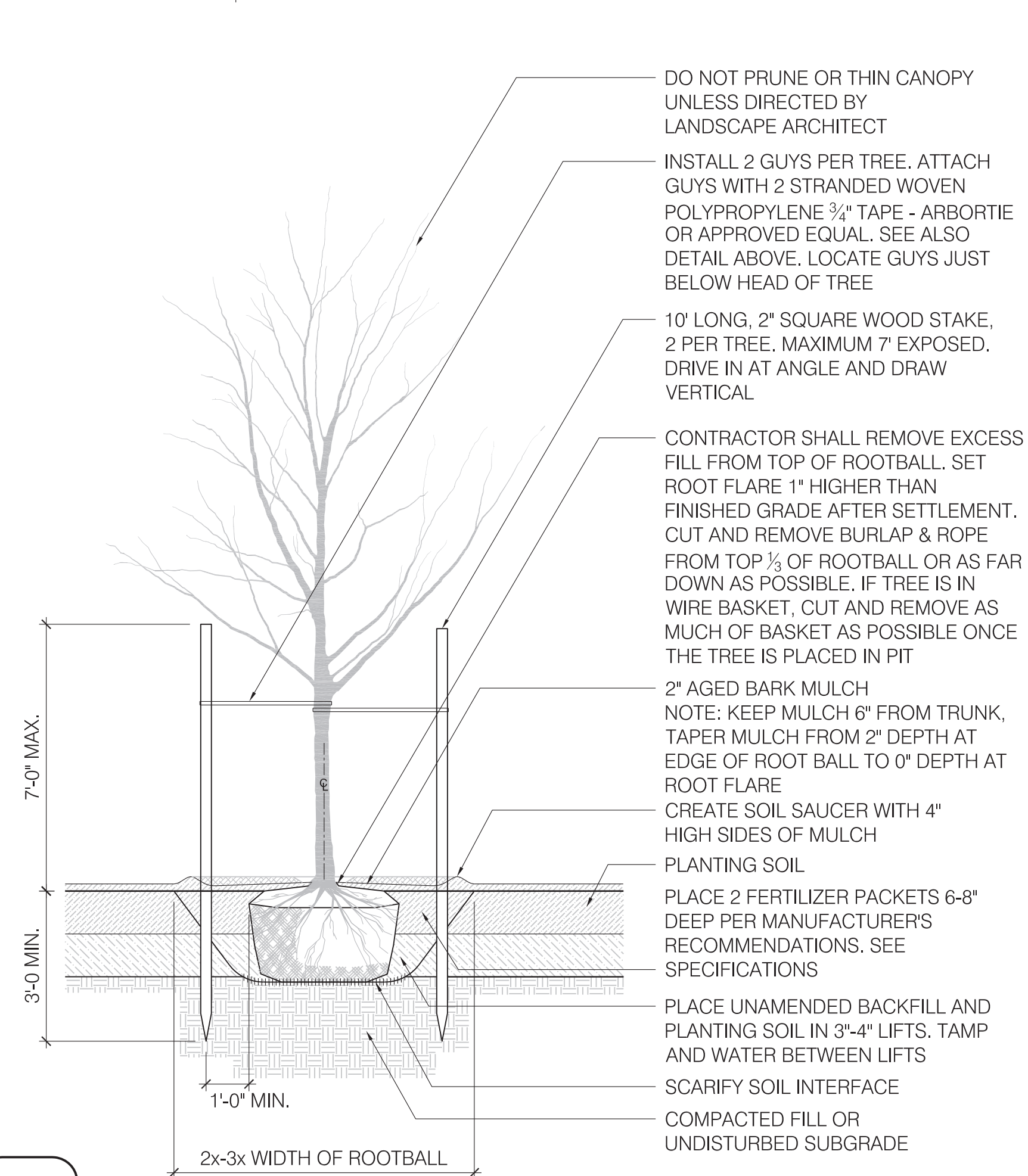
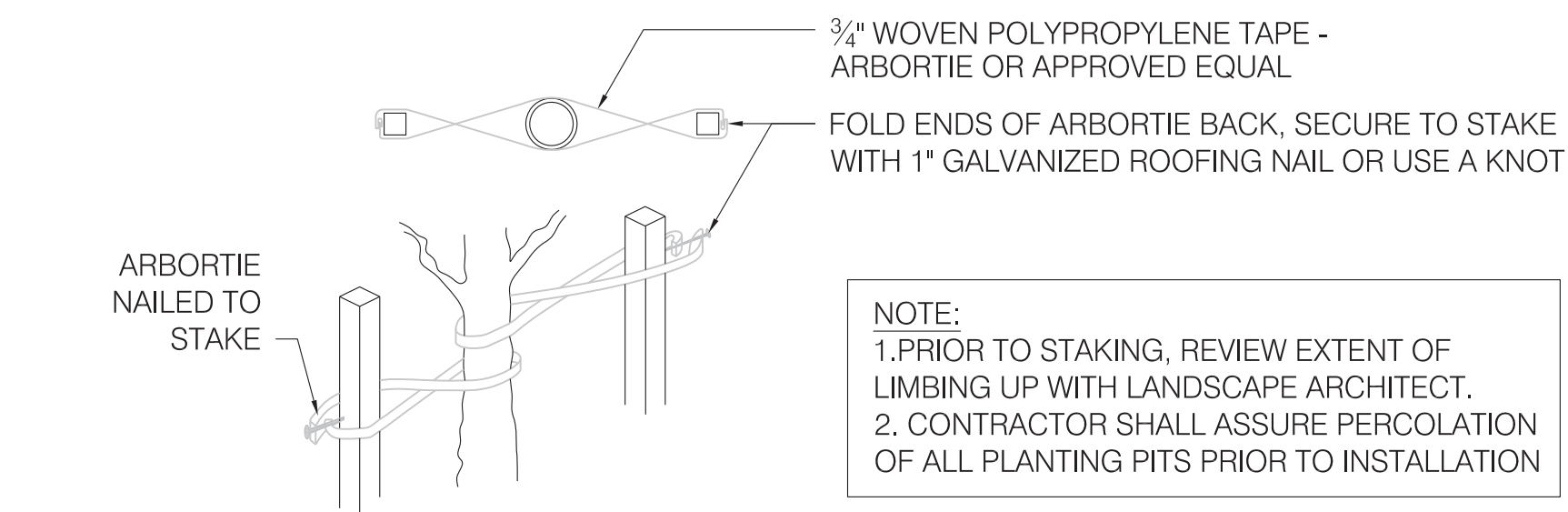
5 TREE PLANTING IN SAND
SCALE: 1/2" = 1'-0"



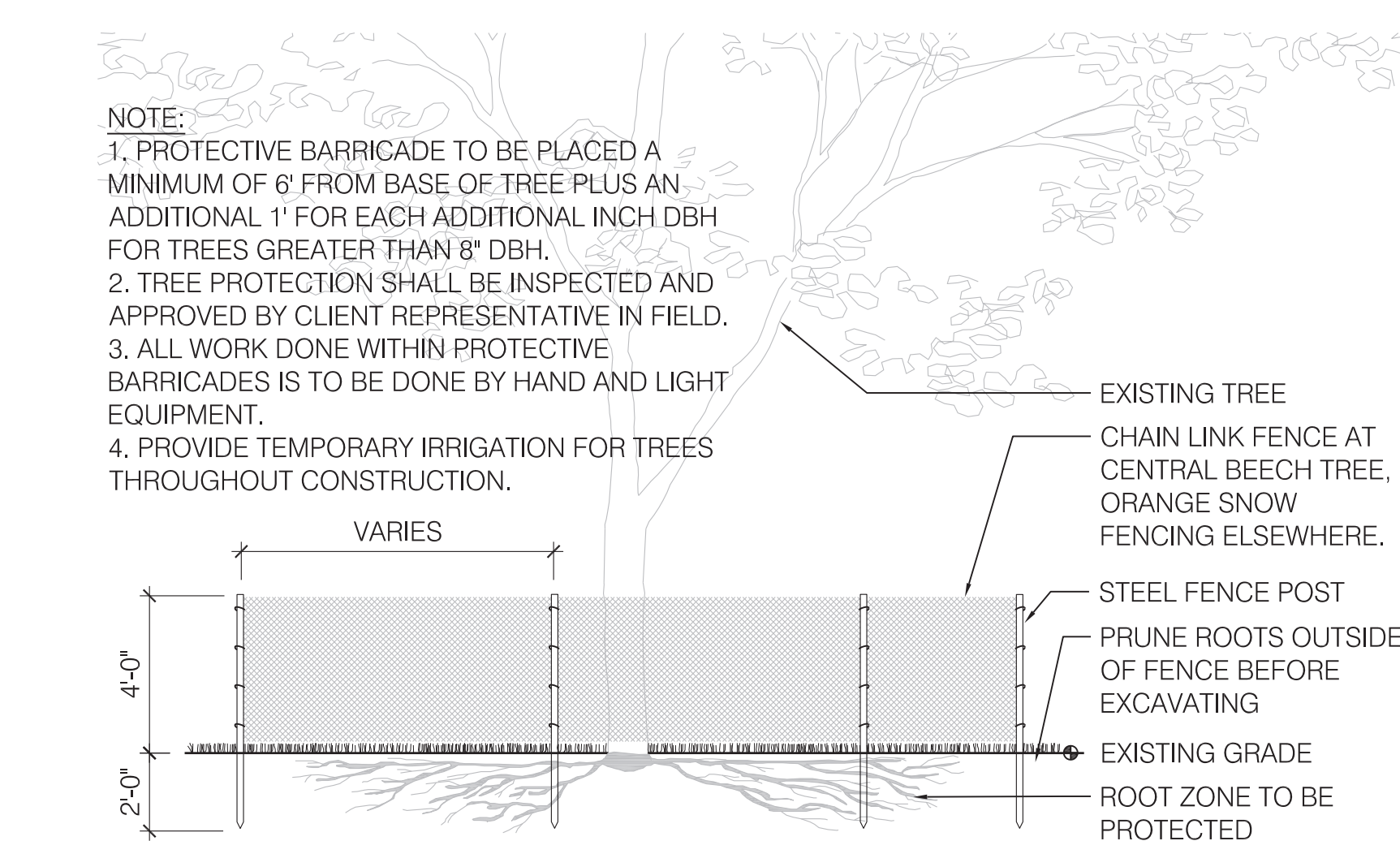
4 FLEXIBLE POROUS PAVEMENT AT NEW TREE PIT
SCALE: 1/2" = 1'-0"



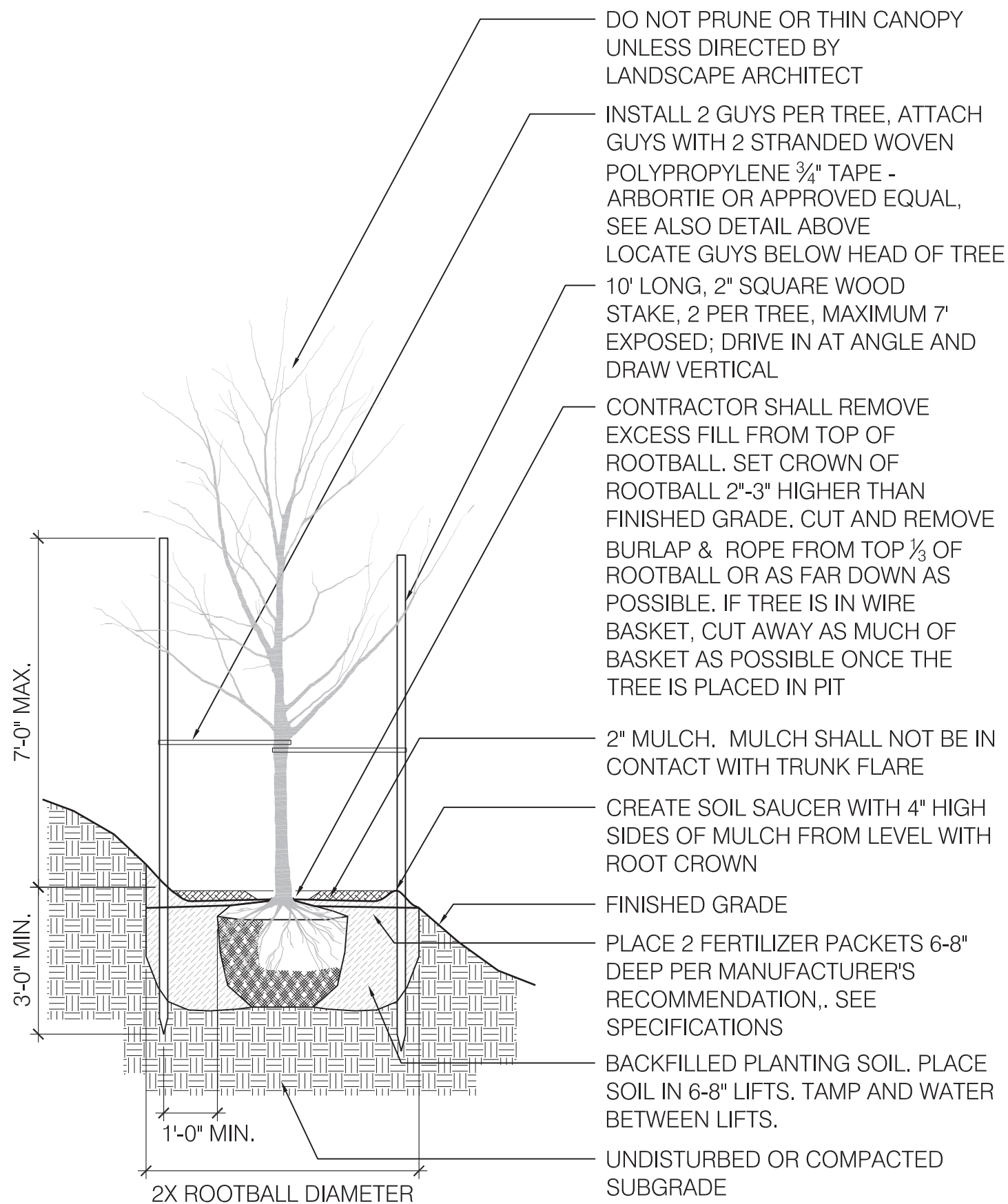
3 FLEXIBLE POROUS PAVEMENT AT EXISTING TREE
SCALE: 1/2" = 1'-0"



2 DECIDUOUS TREE
SCALE: 3/8" = 1'-0"



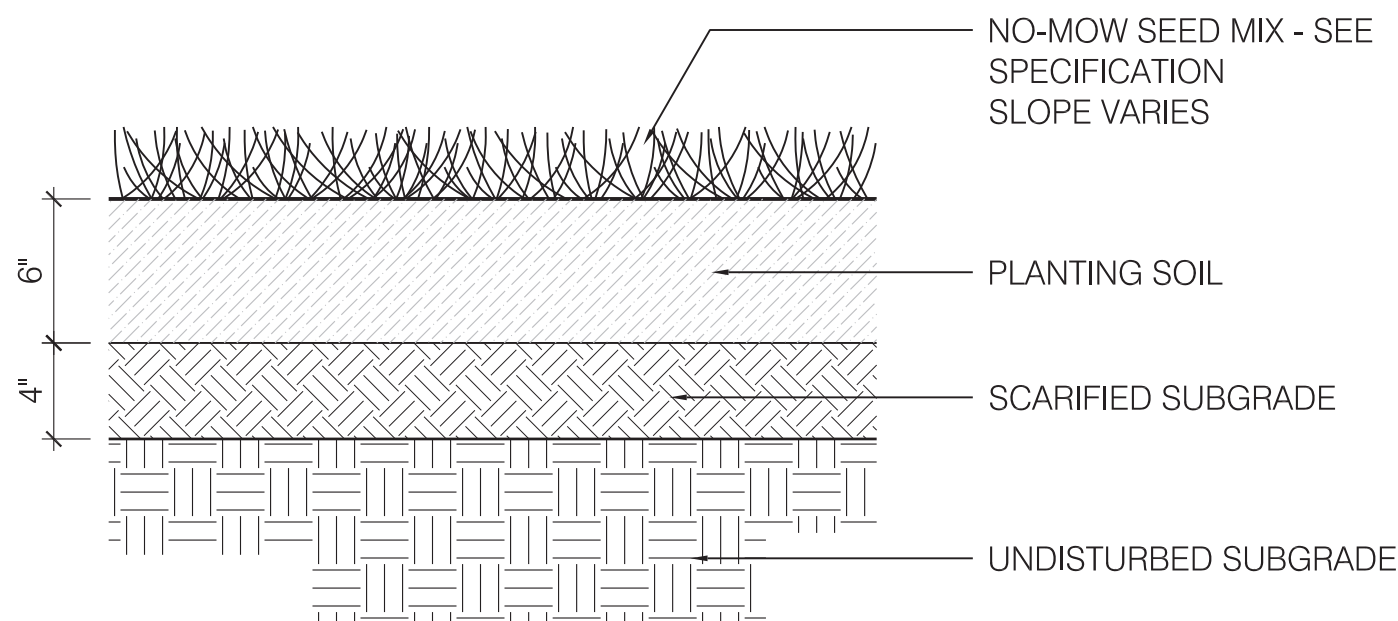
1 EXISTING TREE PROTECTION
SCALE: 1/4" = 1'-0"



6 TREE PLANTING ON SLOPE
SCALE: 3/8" = 1'-0"

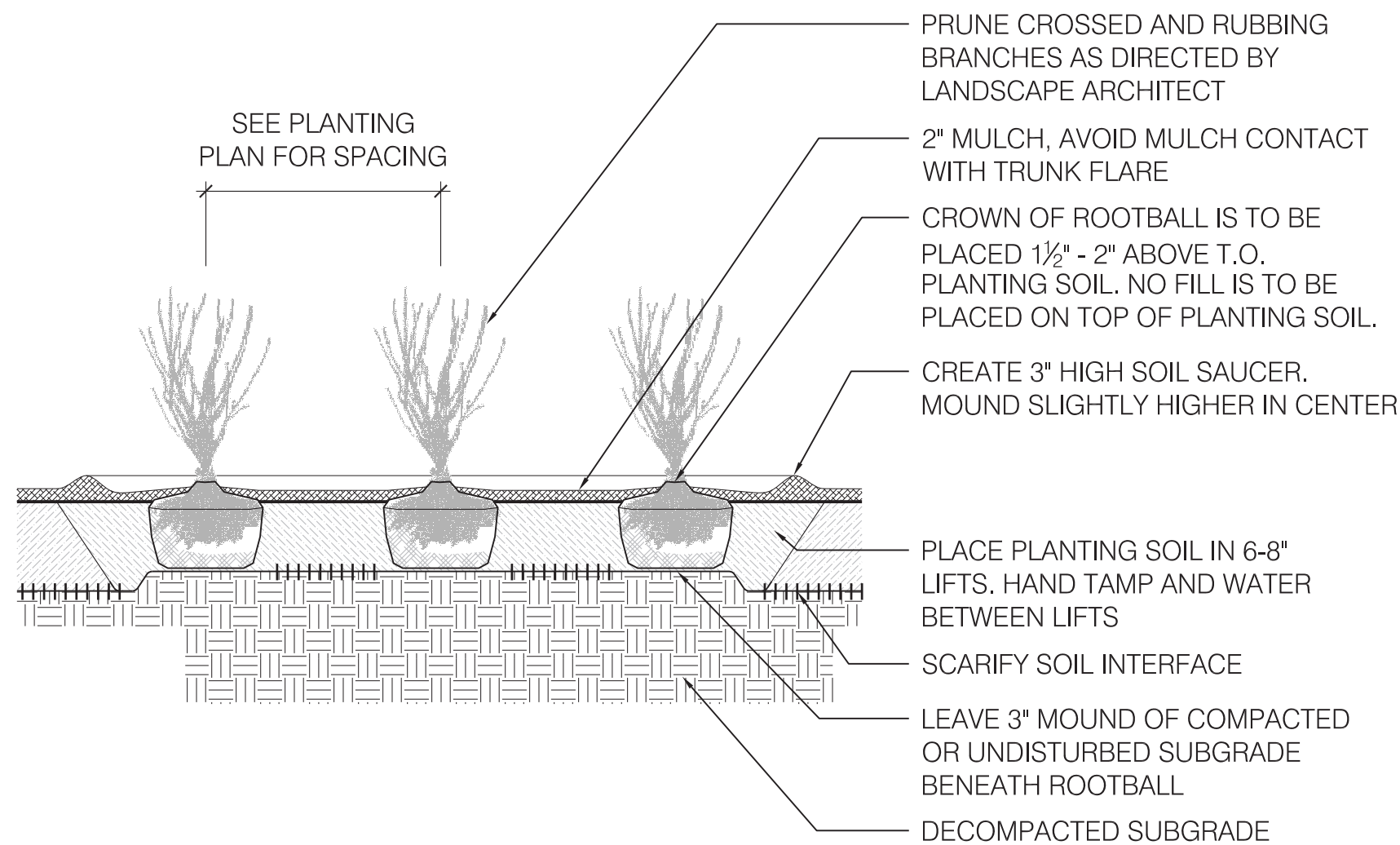
6 NO MOW

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



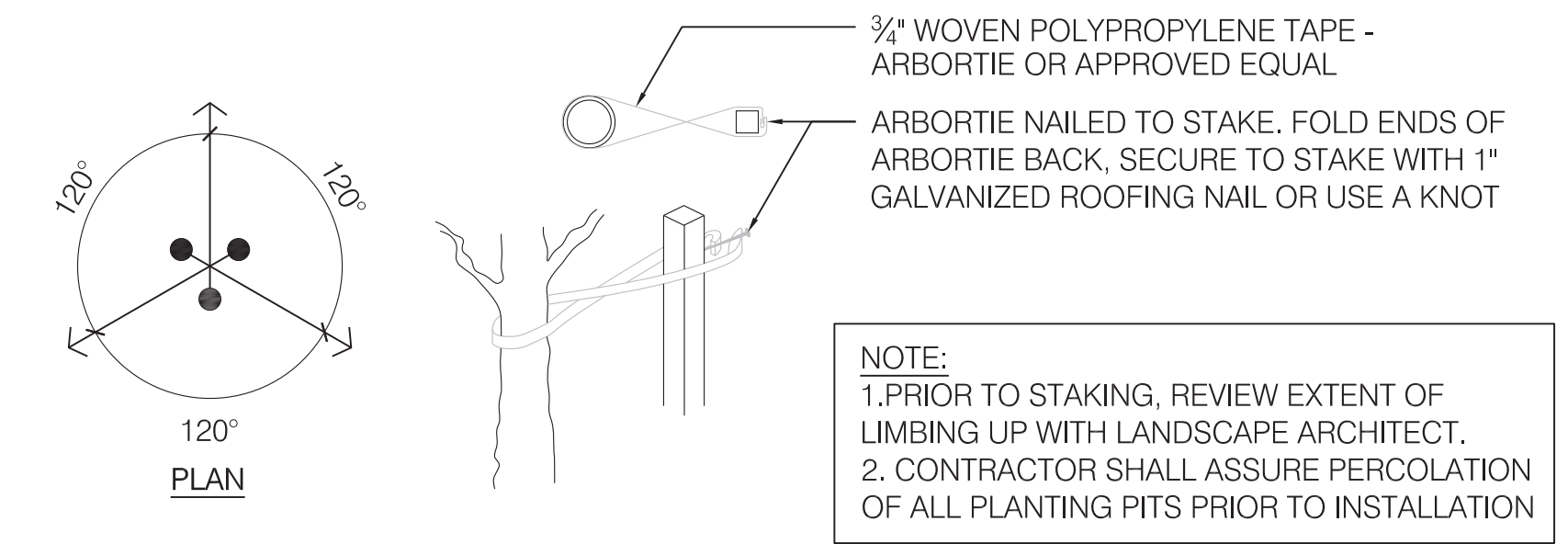
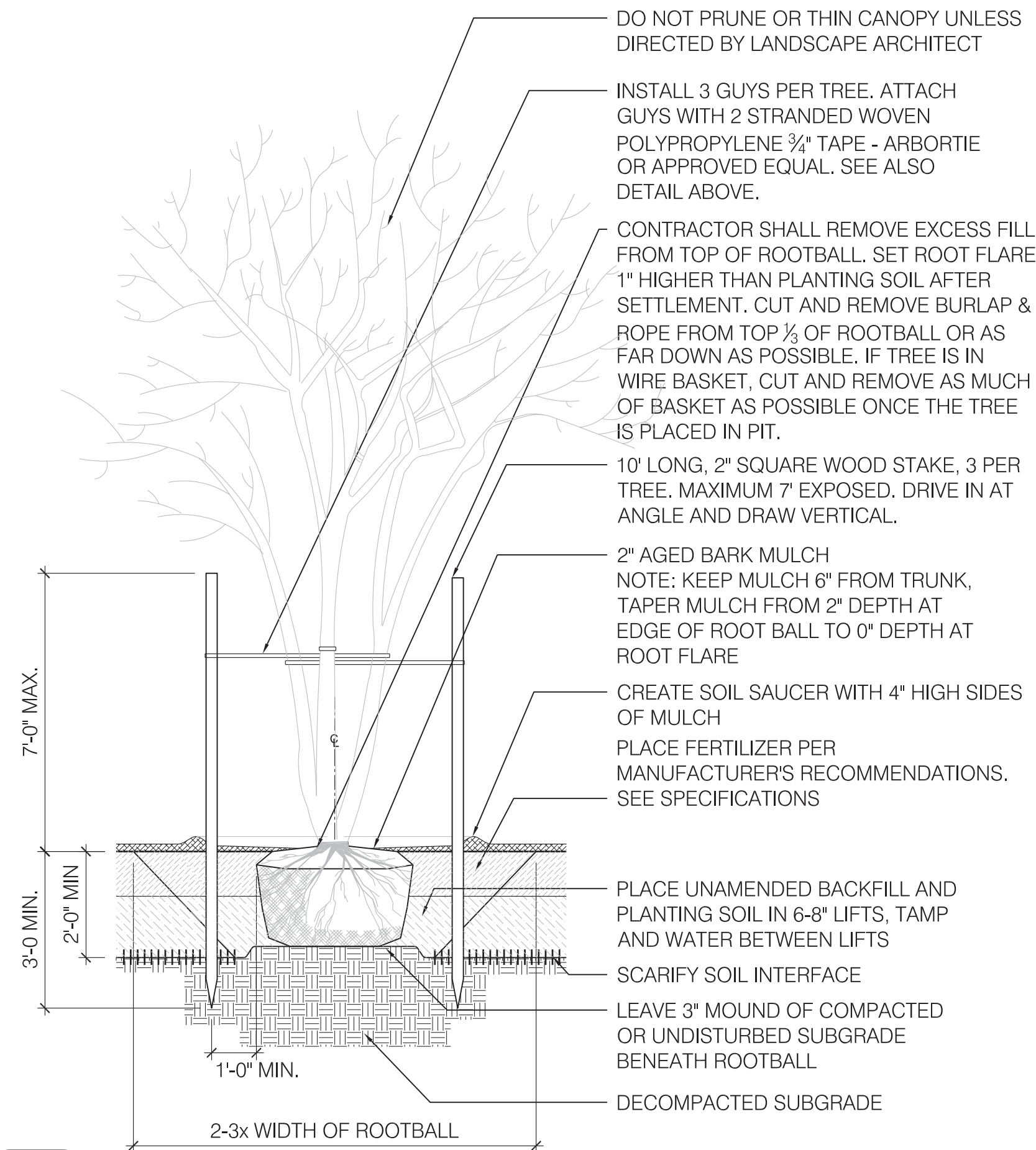
3 SHRUB PLANTING

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



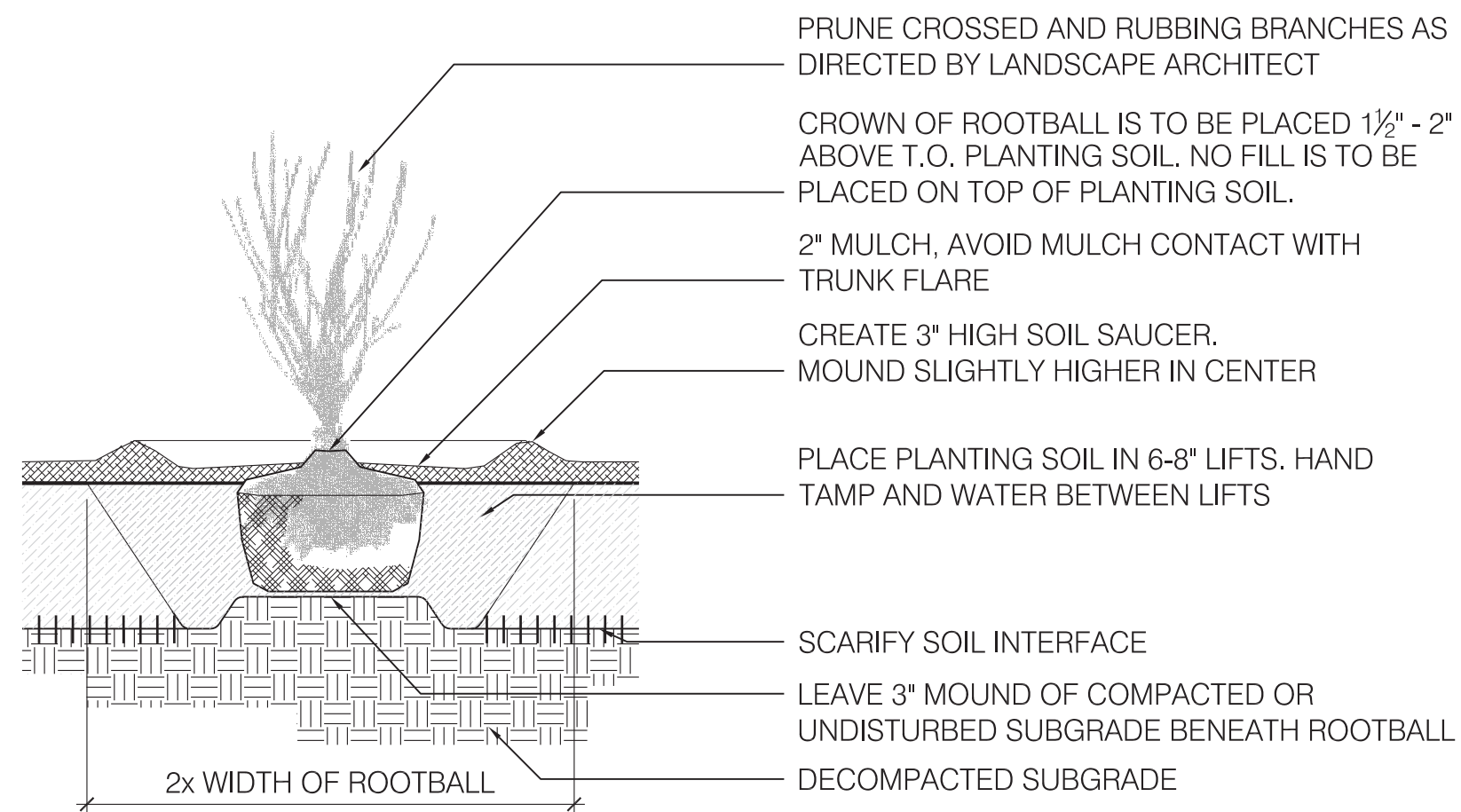
1 MULTISTEM TREE PLANTING

SCALE: 3/8" = 1'-0"



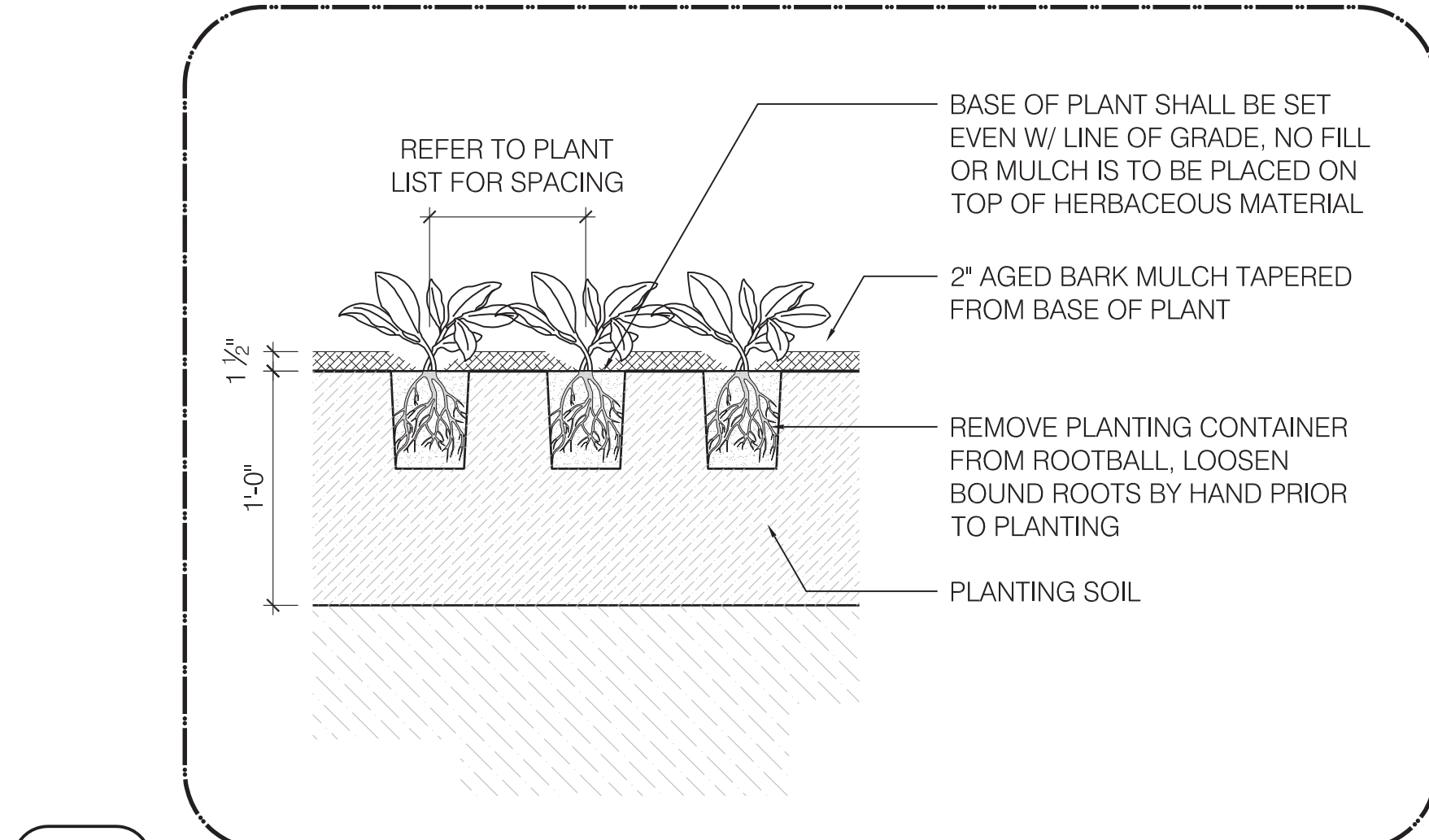
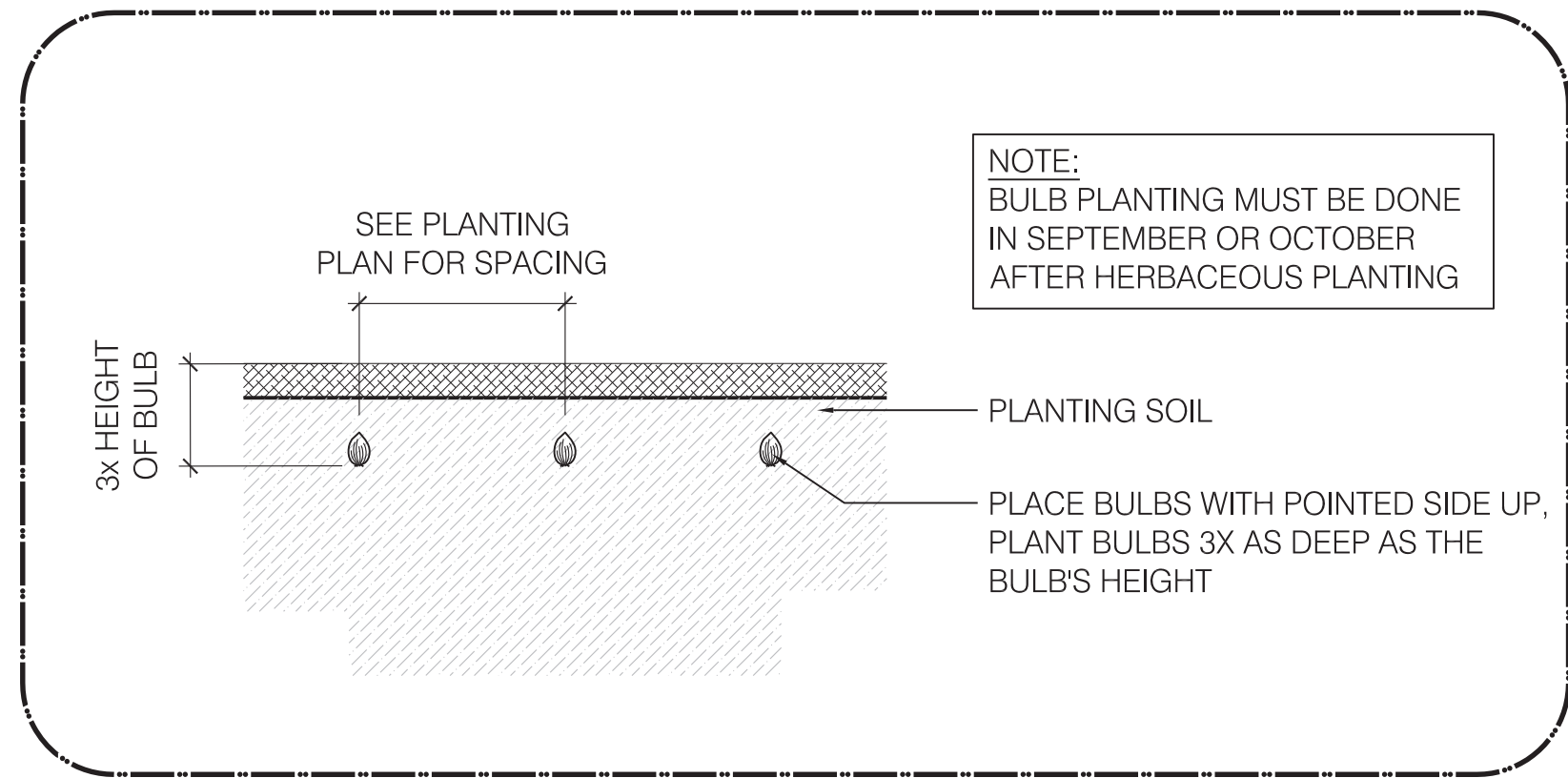
2 INDIVIDUAL SHRUB PLANTING

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



5 BULB PLANTING ADD ALT #3

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



4 GROUNDCOVER PLANTING ADD ALT #3

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

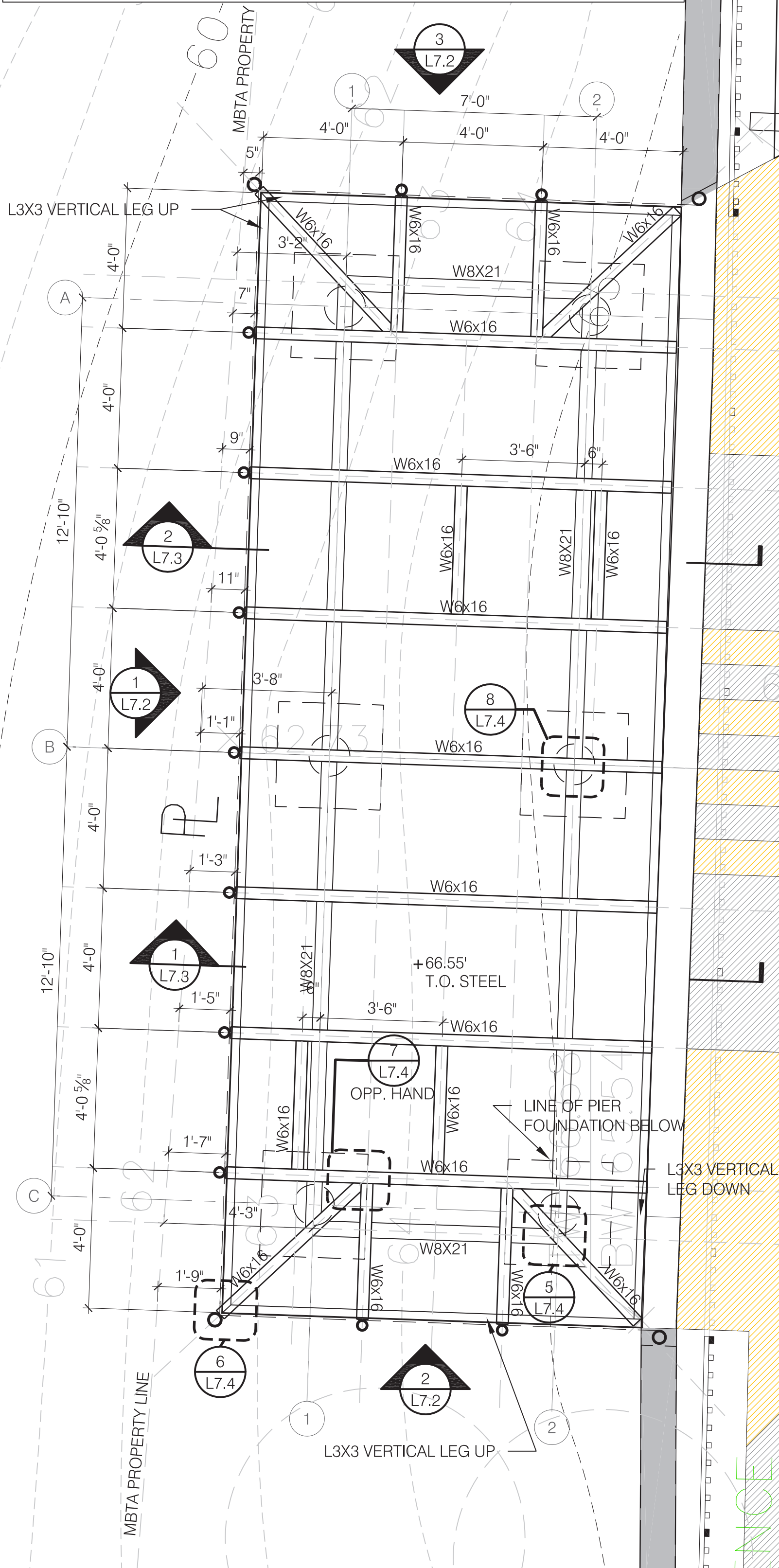
REVISIONS:		
REV	DATE	NOTE

PLANTING DETAILS 2



SLOPE (OUTSIDE OF FENCE) DEMO NOTES:

1. CONTRACTOR SHALL ACCESS TREES FROM PARK SIDE ONLY, USE A CRANE AND TAKE ALL NECESSARY MEASURES TO ENSURE ALL REMOVED TREES AND ASSOCIATED DEBRIS LAND ON PARK SIDE OF PROPERTY LINE.
2. TREES SHALL BE CUT AT BASE AND STUMPS SHALL BE LEFT IN PLACE UNLESS IN DIRECT CONTACT WITH NEW FOOTINGS.
3. ALL OVERHEAD WIRING TO REMAIN.
4. ALL EXCAVATION WORK FOR OVERLOOK FOOTINGS SHALL BE DONE BY HAND, PORTABLE EQUIPMENT MAY BE ALLOWED, BUT ONLY APPROVED BY A CITY REP.
5. EXCAVATED MATERIALS FOR FOOTINGS SHALL NOT BE STORED ON SLOPE. PLYWOOD AND CONTAINMENT BARRIERS SHALL BE PUT IN PLACE AT EACH FOOTING LOCATION.



4

ADD ALT #7 FRAMING PLAN

SCALE: 3/8" = 1'-0"

3

ADD ALT #7 PLATFORM PLAN

SCALE: 3/8" = 1'-0"

1

BASE BID PLATFORM PLAN

SCALE: 3/8" = 1'-0"

2

BASE BID FRAMING PLAN

SCALE: 3/8" = 1'-0"

DESIGN LIVE LOADS

- PLATFORM LIVE LOAD - 100 PSF

GENERAL

- ALL WORK SHALL CONFORM TO THE MASSACHUSETTS STATE BUILDING CODE, STRUCTURAL NOTES AND SPECIFICATIONS.

FOUNDATIONS

- FOOTINGS SHALL BEAR ON NATURAL SOIL OR COMPACTED STRUCTURAL FILL.
- PLATFORM FOUNDATIONS HAVE BEEN DESIGNED BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. SOIL BEARING SURFACES SHALL BE INSPECTED BY AN INDEPENDENT TESTING AGENCY PRIOR TO PLACING CONCRETE. THE TESTING AGENCY SHALL VERIFY THE SUITABILITY OF THE EXISTING SOIL TO SUPPORT THE REQUIRED BEARING PRESSURE.
- CONTRACTOR SHALL PROVIDE A DEWATERING SYSTEM TO PREVENT SOFTENING OF BEARING SURFACES.

CONCRETE

- MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS - 4500 PSI
- MAXIMUM WATER CEMENT RATIO BY WEIGHT - 0.45
- MAXIMUM SLUP - 4"
- FOOTINGS AND PIERS - 1 1/2" MAX AGGREGATE SIZE, 5.5% AIR ENTRAINMENT.
- OTHER CONCRETE COMPONENTS - 3/4" MAX AGGREGATE SIZE, 6% AIR ENTRAINMENT.

STRUCTURAL STEEL

- MEMBERS AND COMPONENTS SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS
BEAMS - A992
CHANNELS AND PLATES - A36
BOLTS - A325
ANCHOR RODS - F1554 GRADE 36
 - ALL MEMBERS AND FASTENERS SHALL BE HOT-DIPPED GALVANIZED.
 - WELDING ELECTRODES - E70XX, LOW HYDROGEN
 - WELDERS SHALL BE LICENSED IN THE STATE OF MASSACHUSETTS.
- PLATFORM GRATING
- CLOSE-SPACED STEEL GRATING 1" DEEP, CAPABLE OF SUPPORTING 100 PSF UNIFORM LOAD.
 - GRATING SHALL BE HOT-DIPPED GALVANIZED.

REVISIONS:

REV DATE NOTE

PROJECT: KMDG #1604

HOYT SULLIVAN
PLAYGROUND

117 CENTRAL STREET
SOMERVILLE, MA 02145

DRAWING:

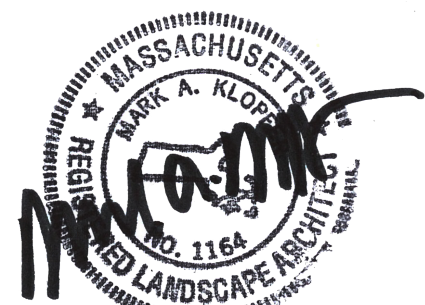
PLATFORM PLANS

DRAWN: DC/DS REVIEW: KP

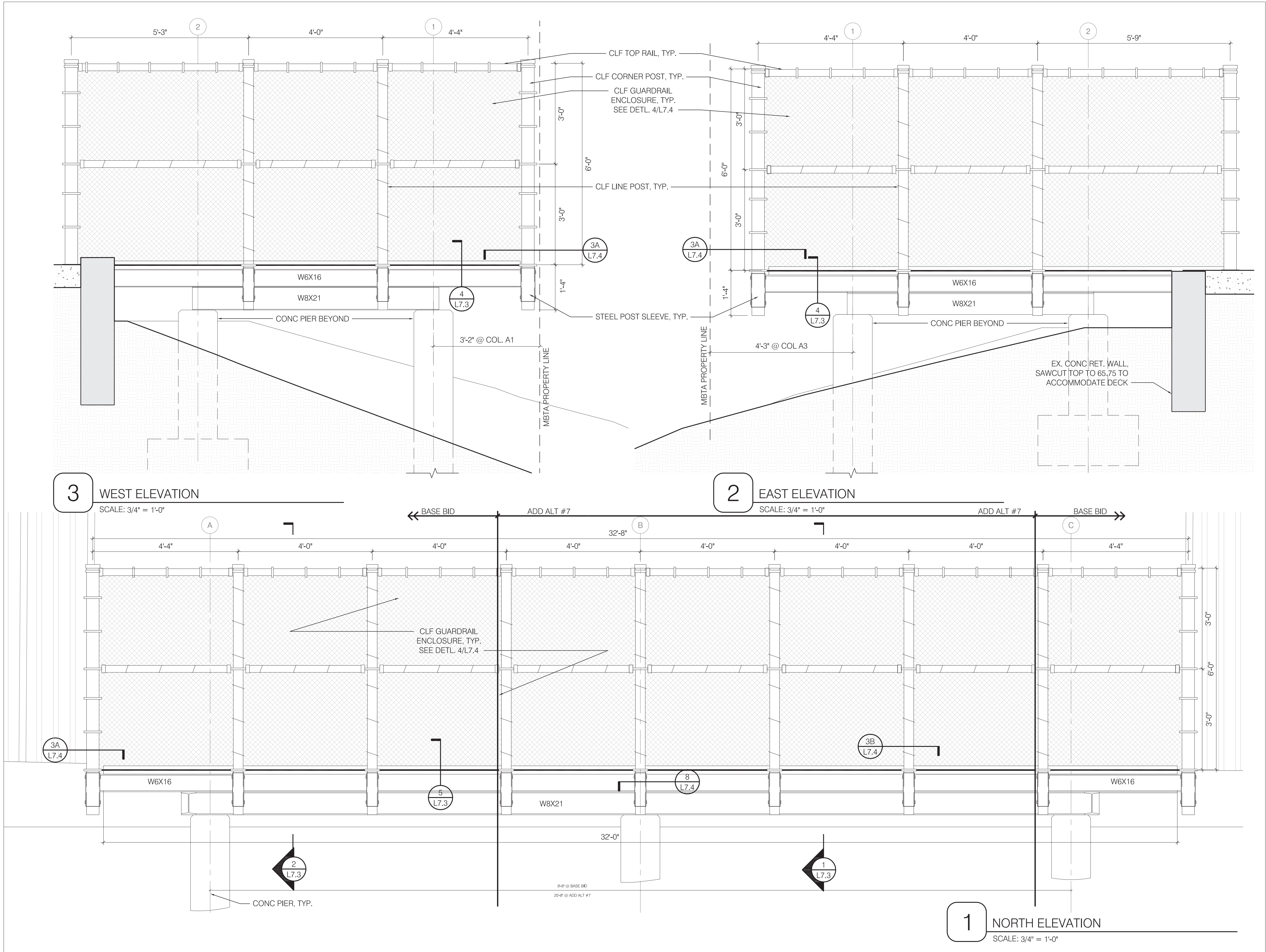
SCALE: AS NOTED

DATE: 16 FEBRUARY 2017

SHEET:

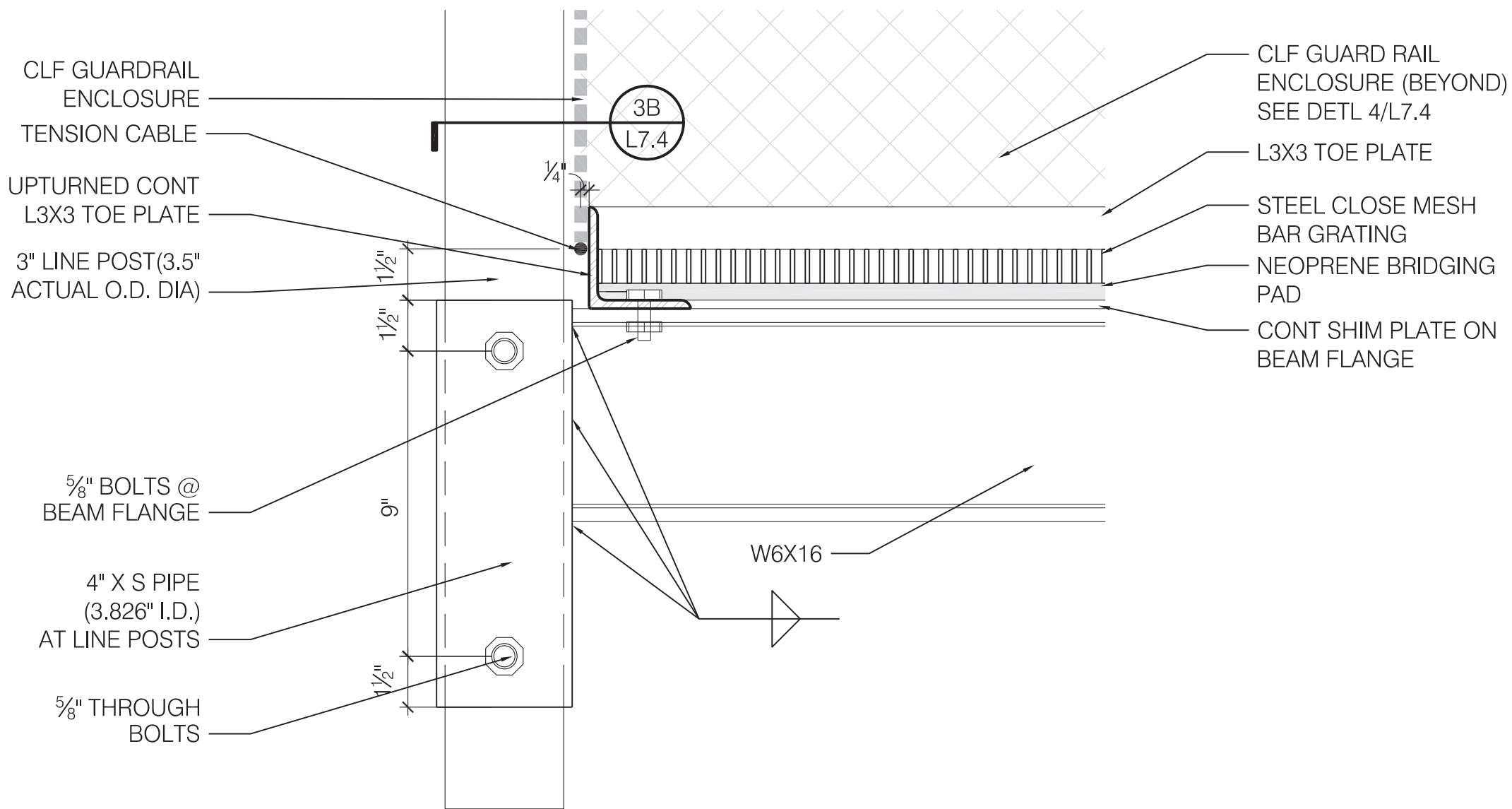


L7.1



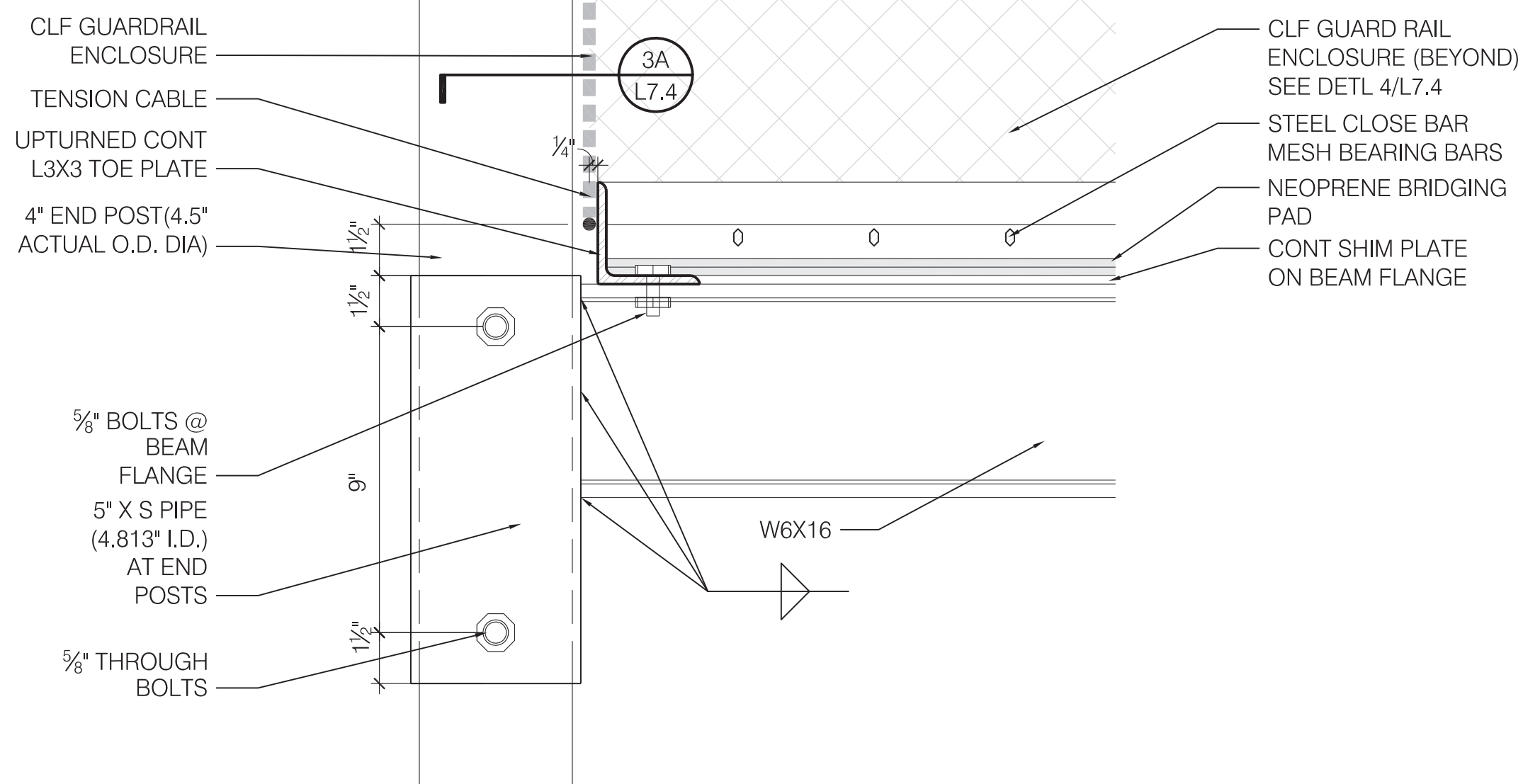
REVISIONS:		
REV	DATE	NOTE





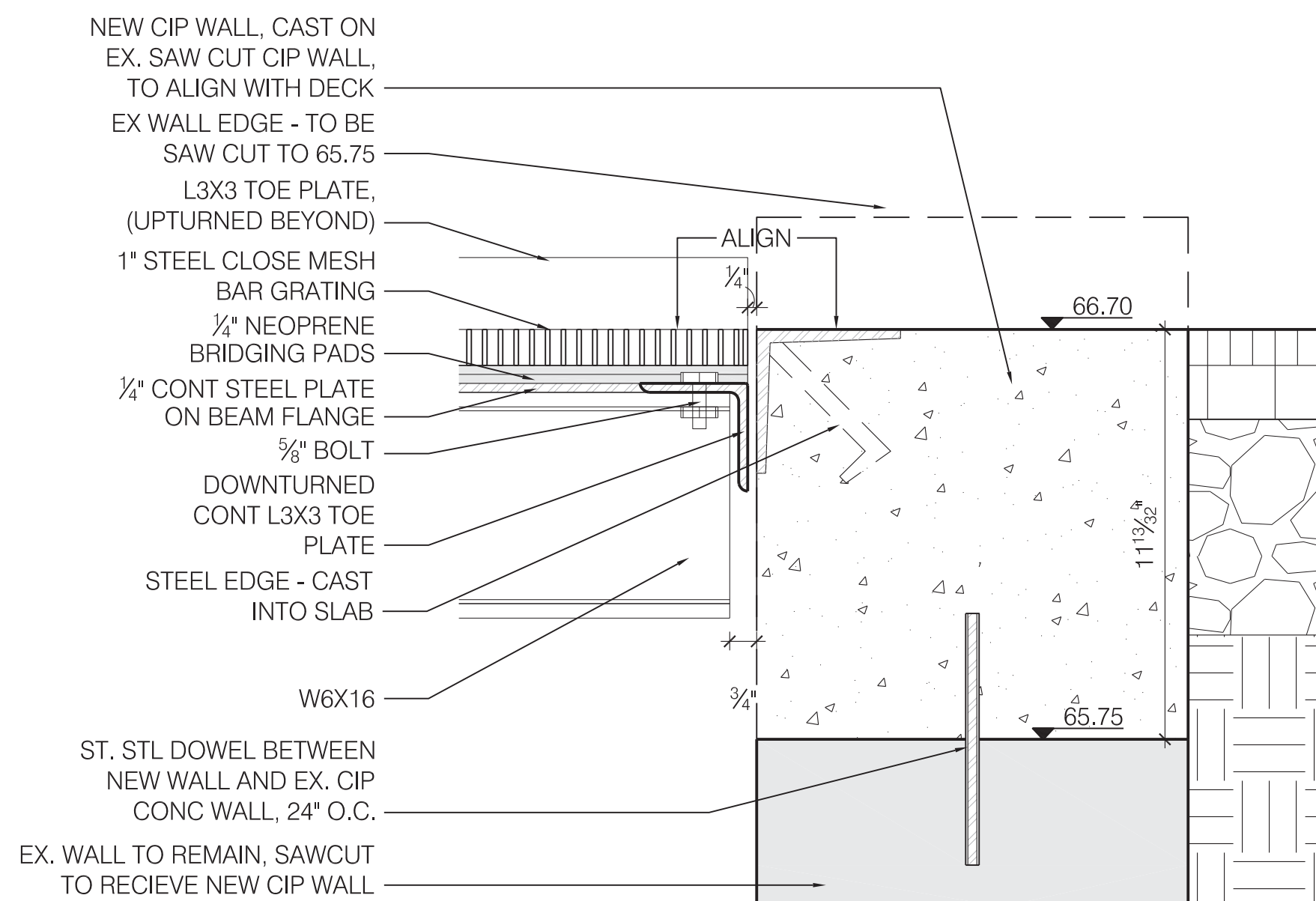
5 METAL GRATE AND FENCE POST N-S

SCALE: 3" = 1'-0"



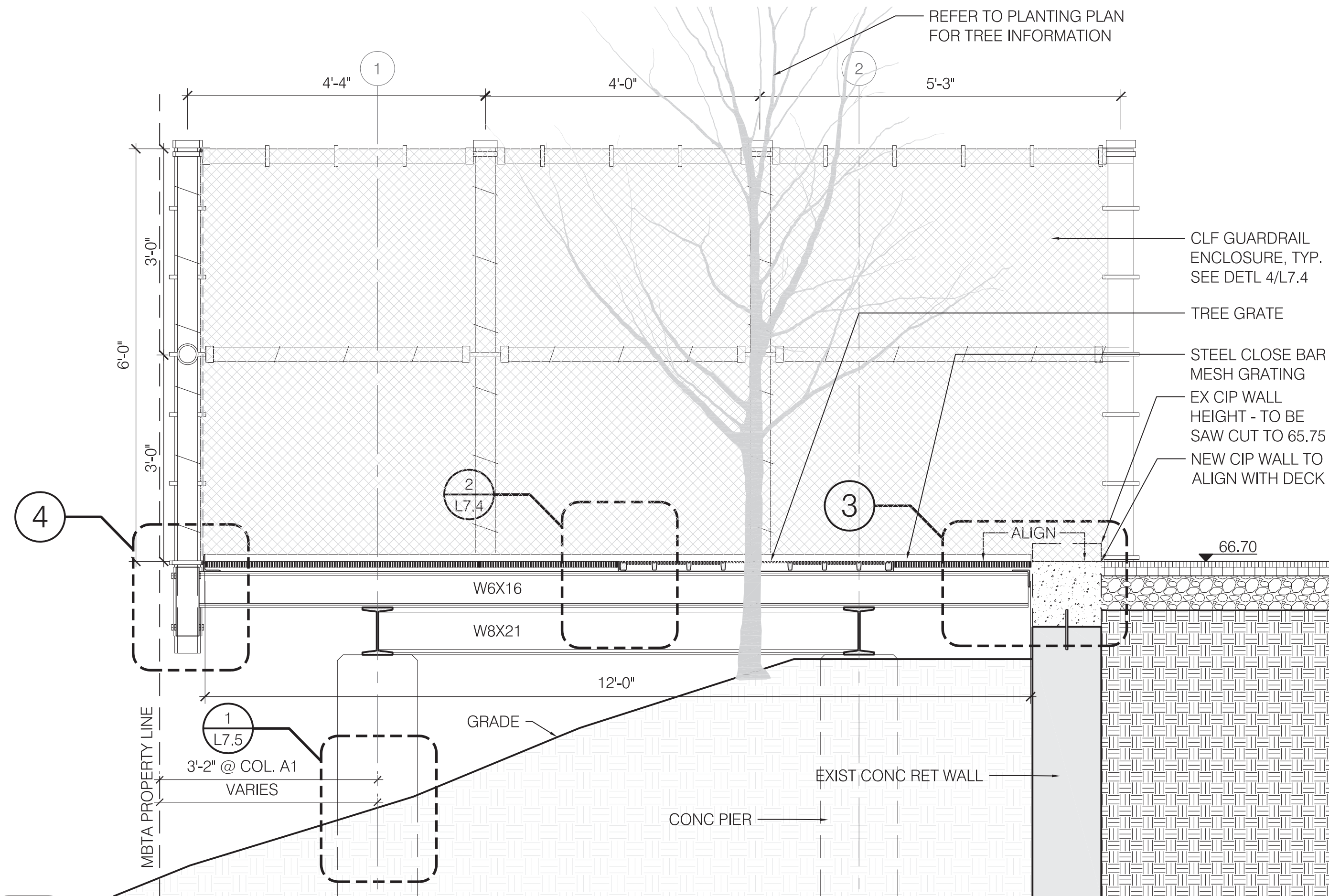
4 METAL GRATE AND FENCE POST E-W

SCALE: 3" = 1'-0"



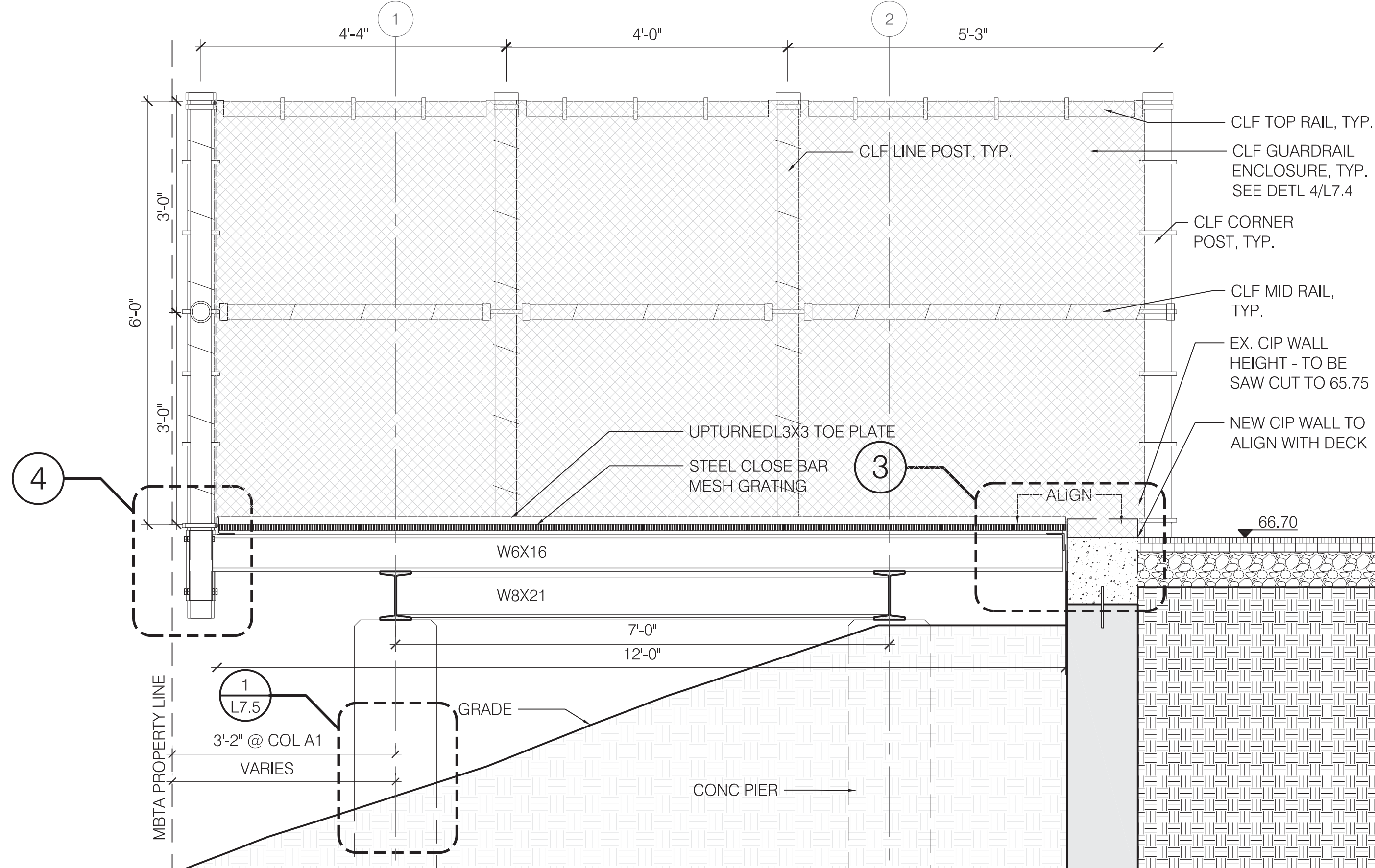
3 PLATFORM CONNECTION AT EXISTING WALL

SCALE: 3" = 1'-0"



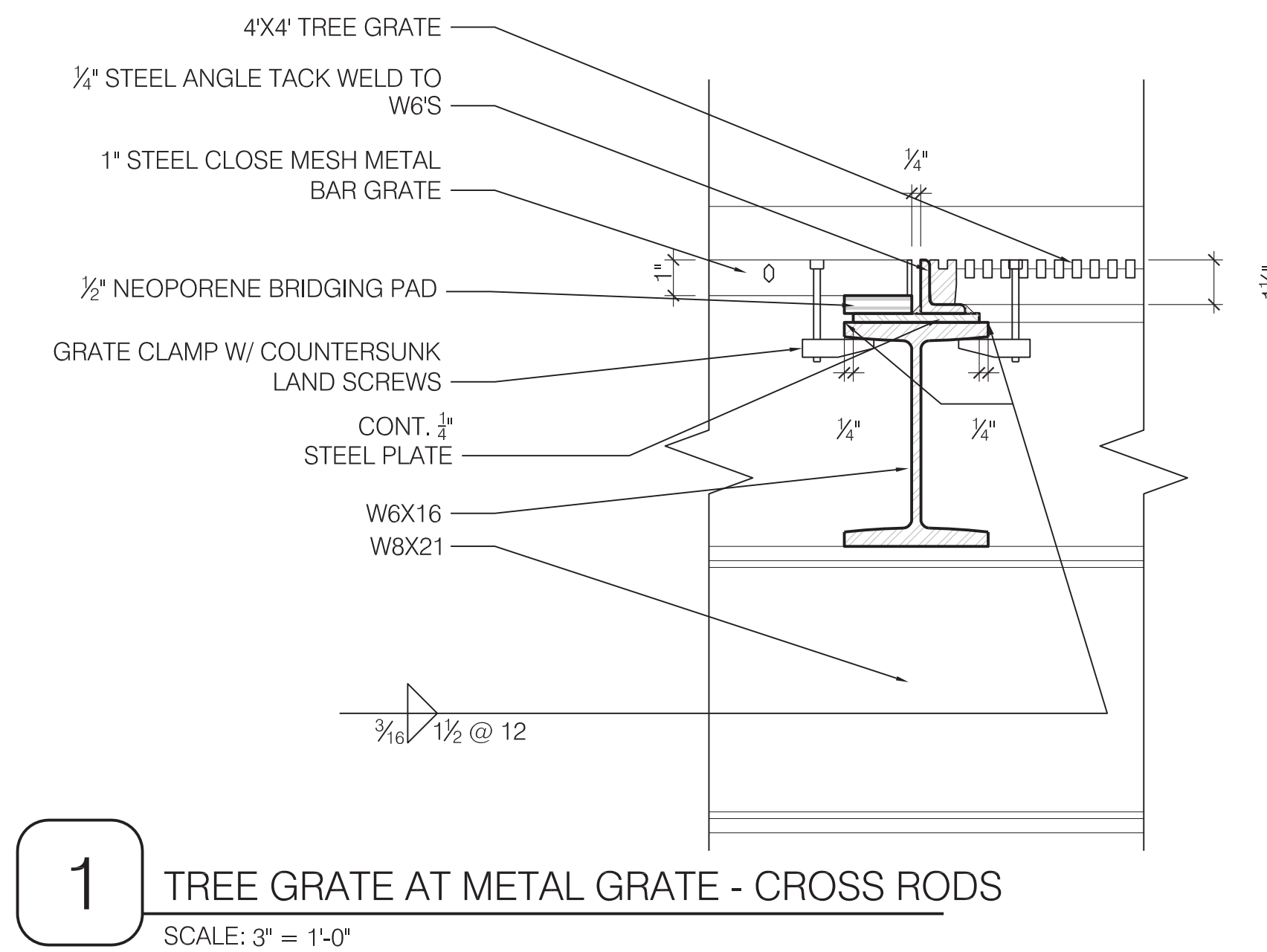
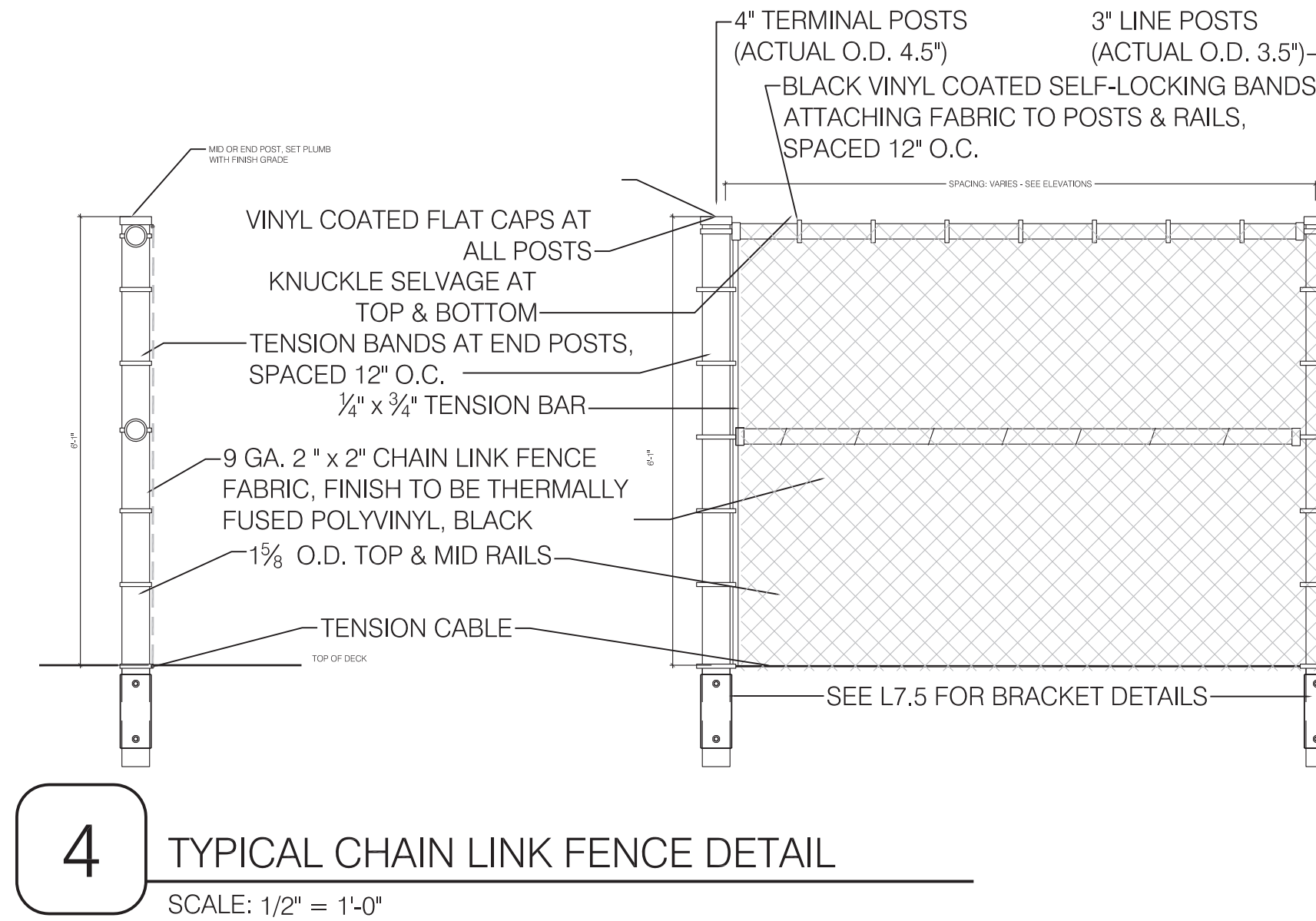
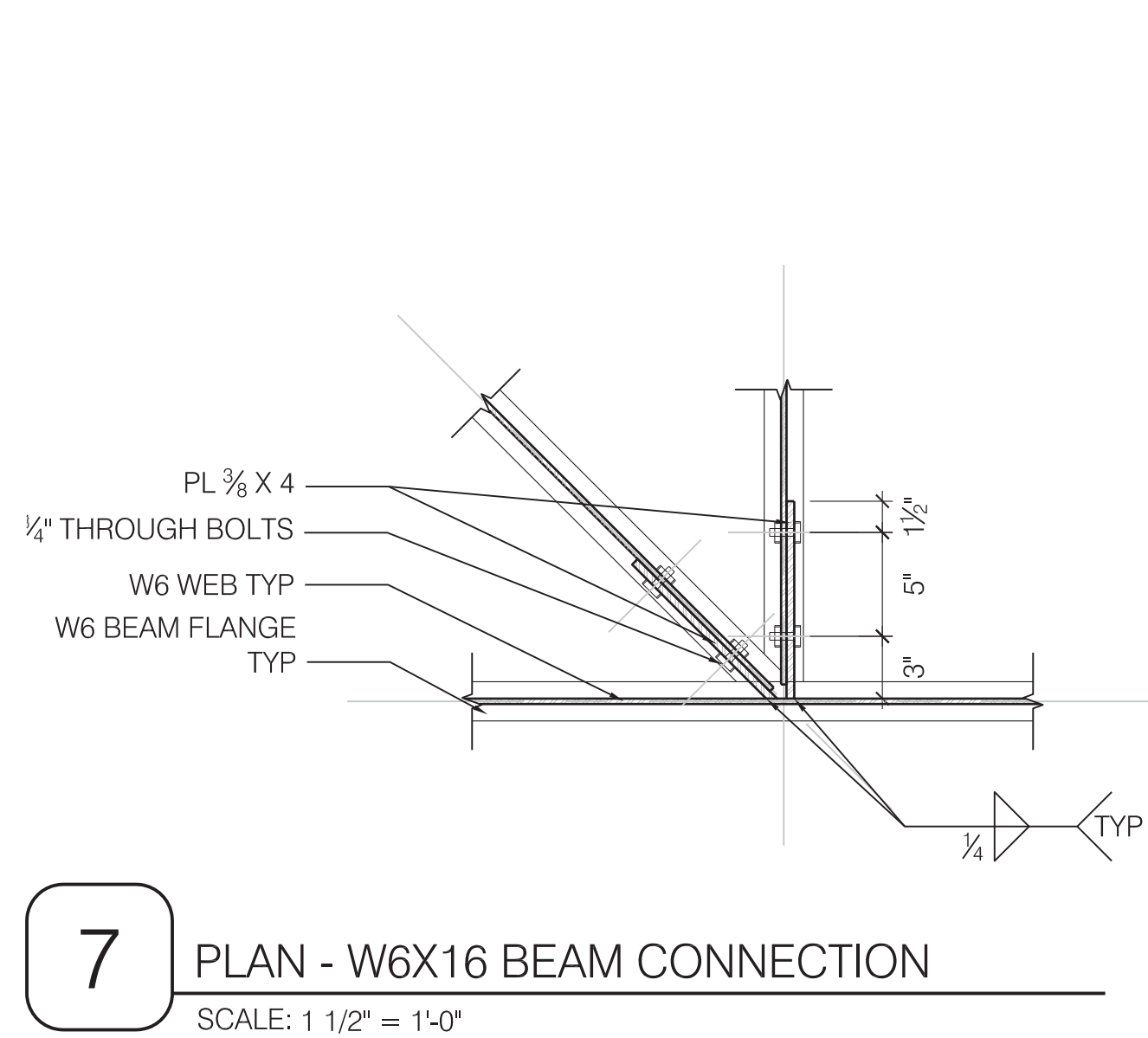
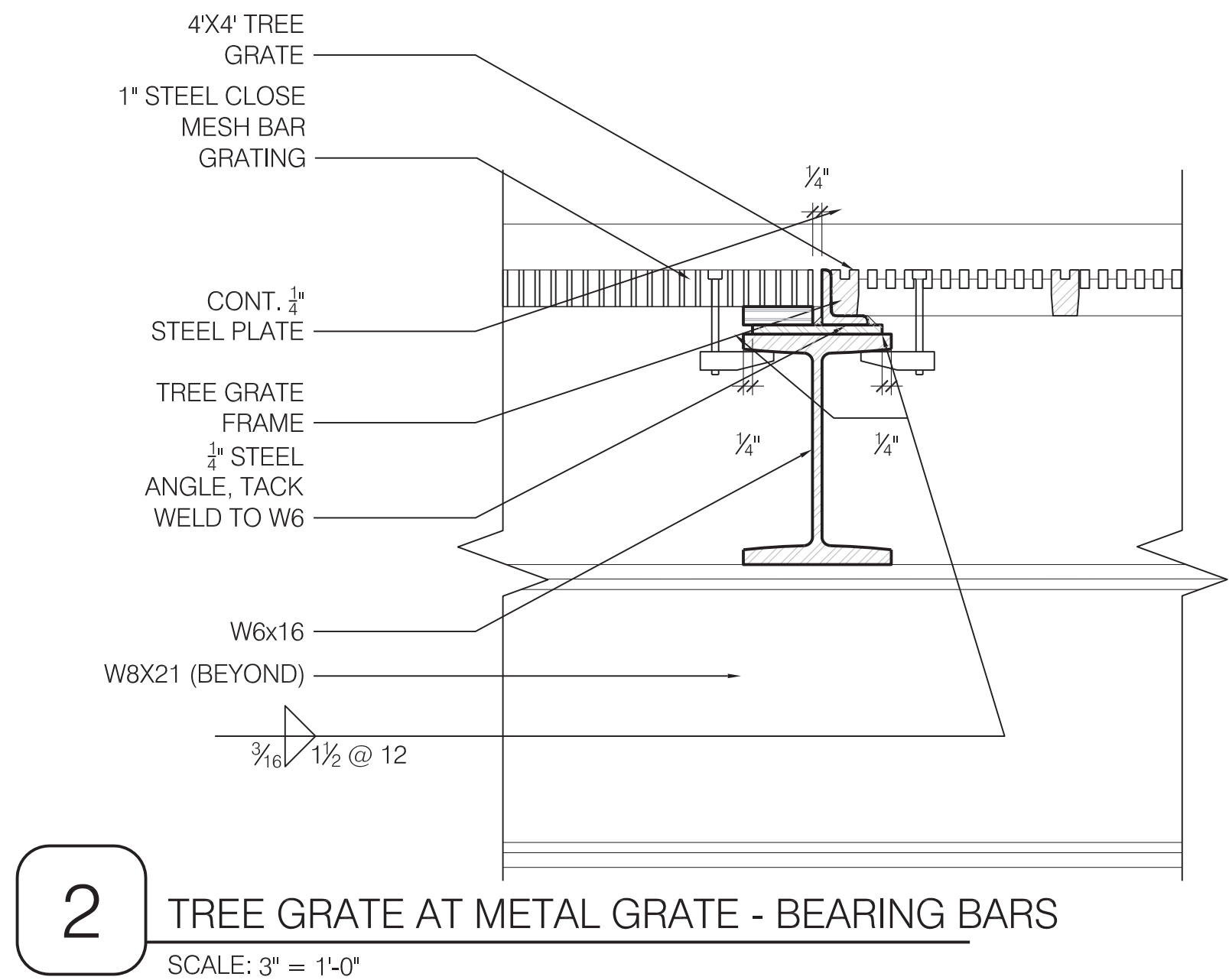
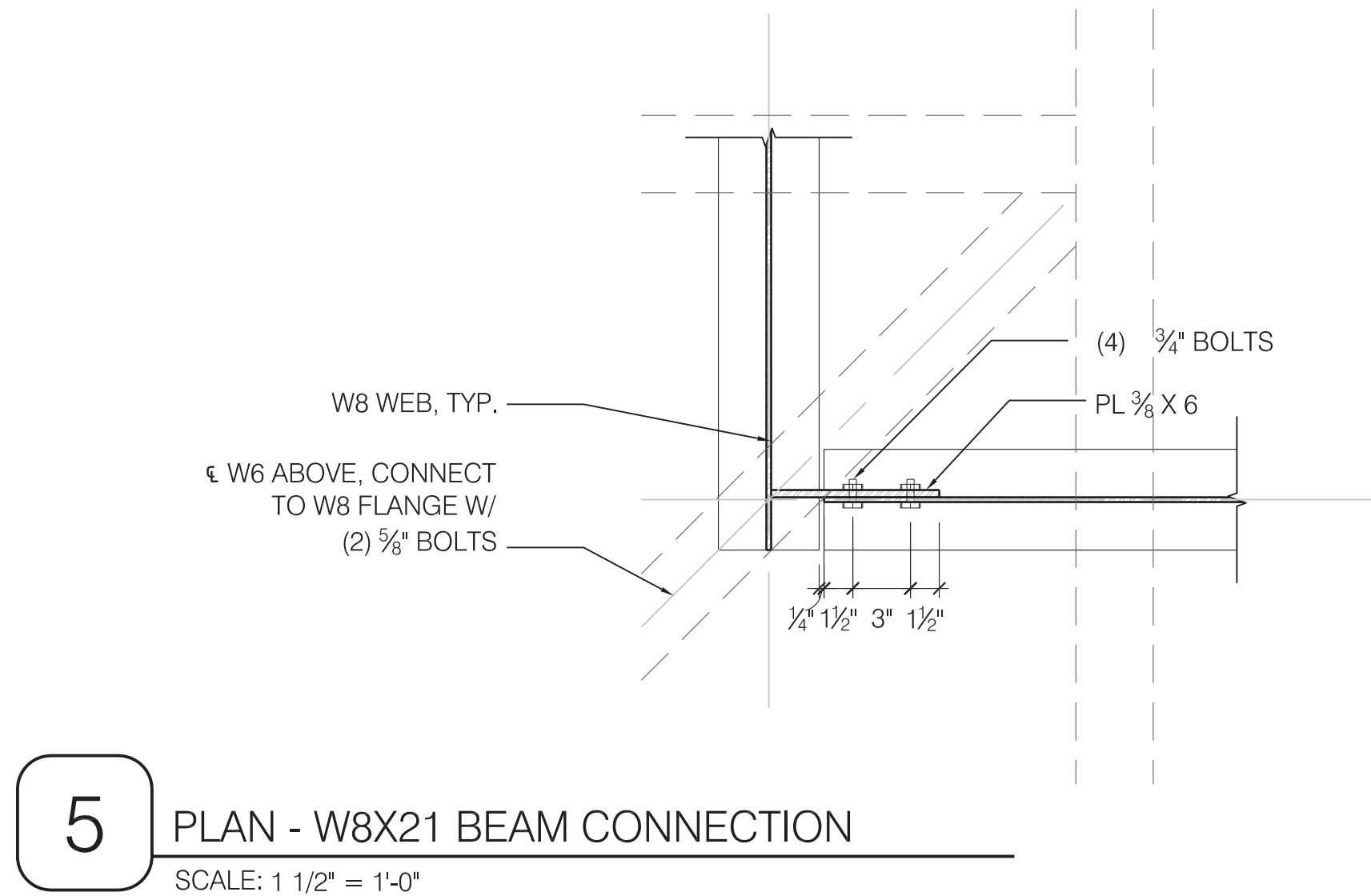
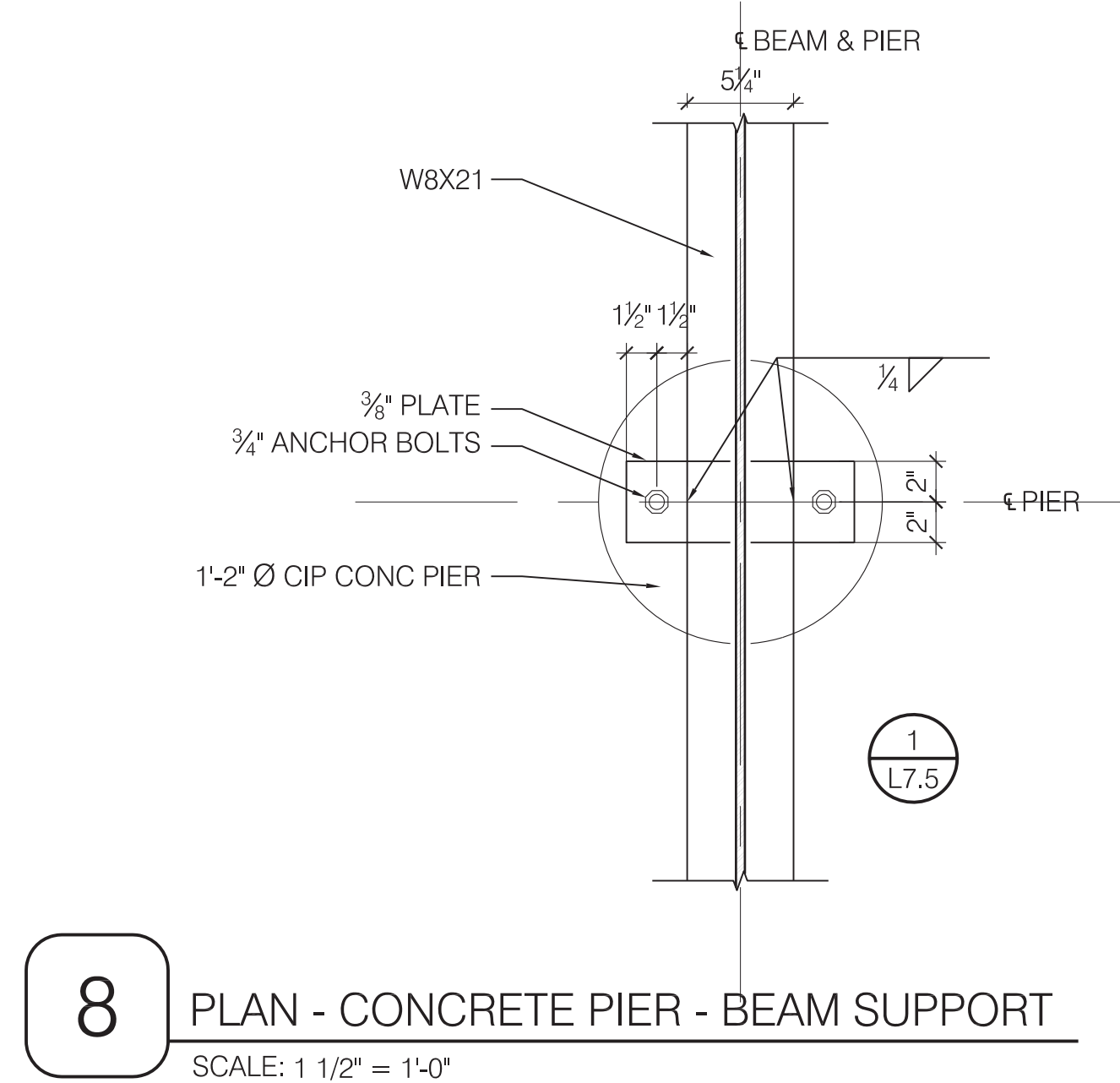
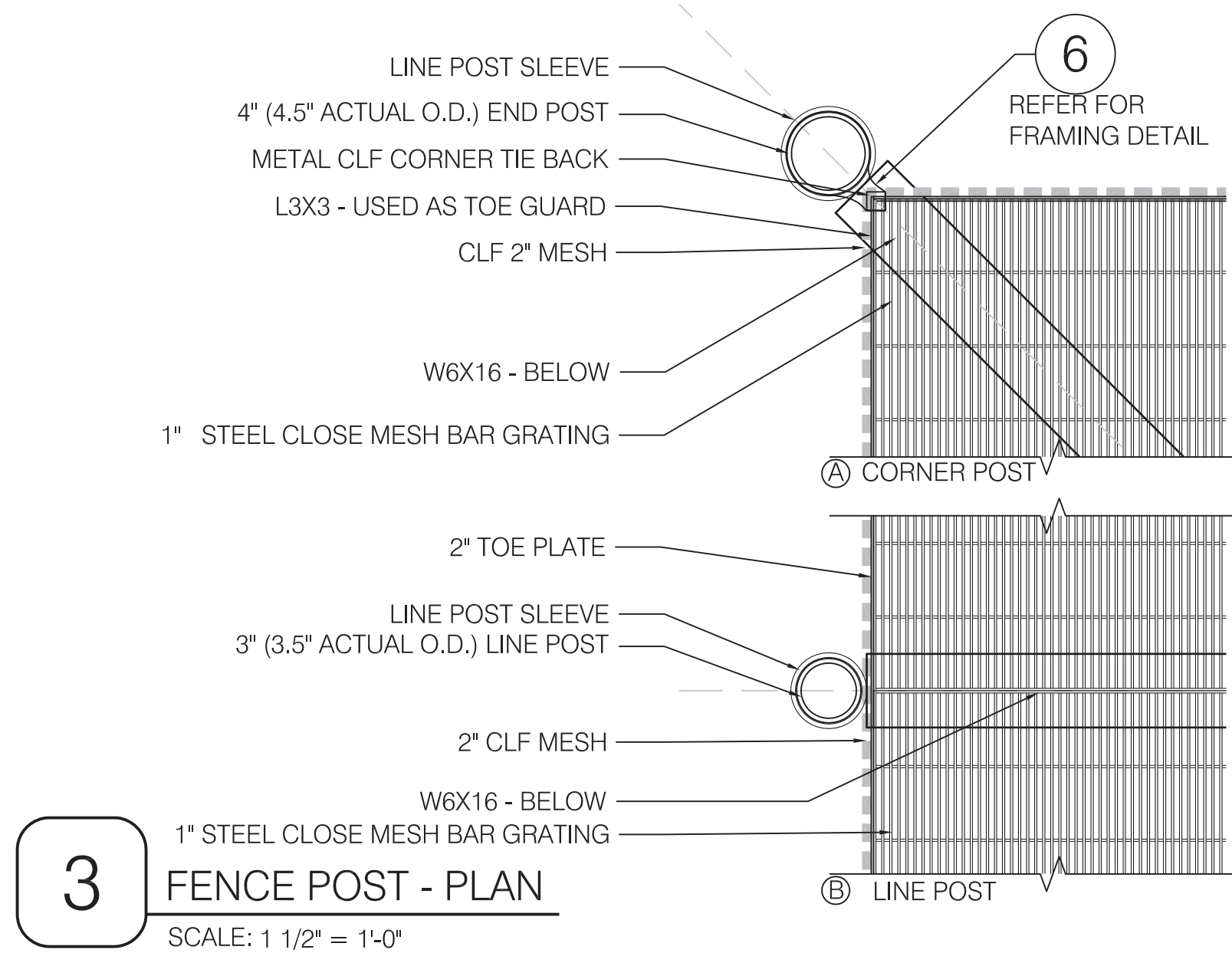
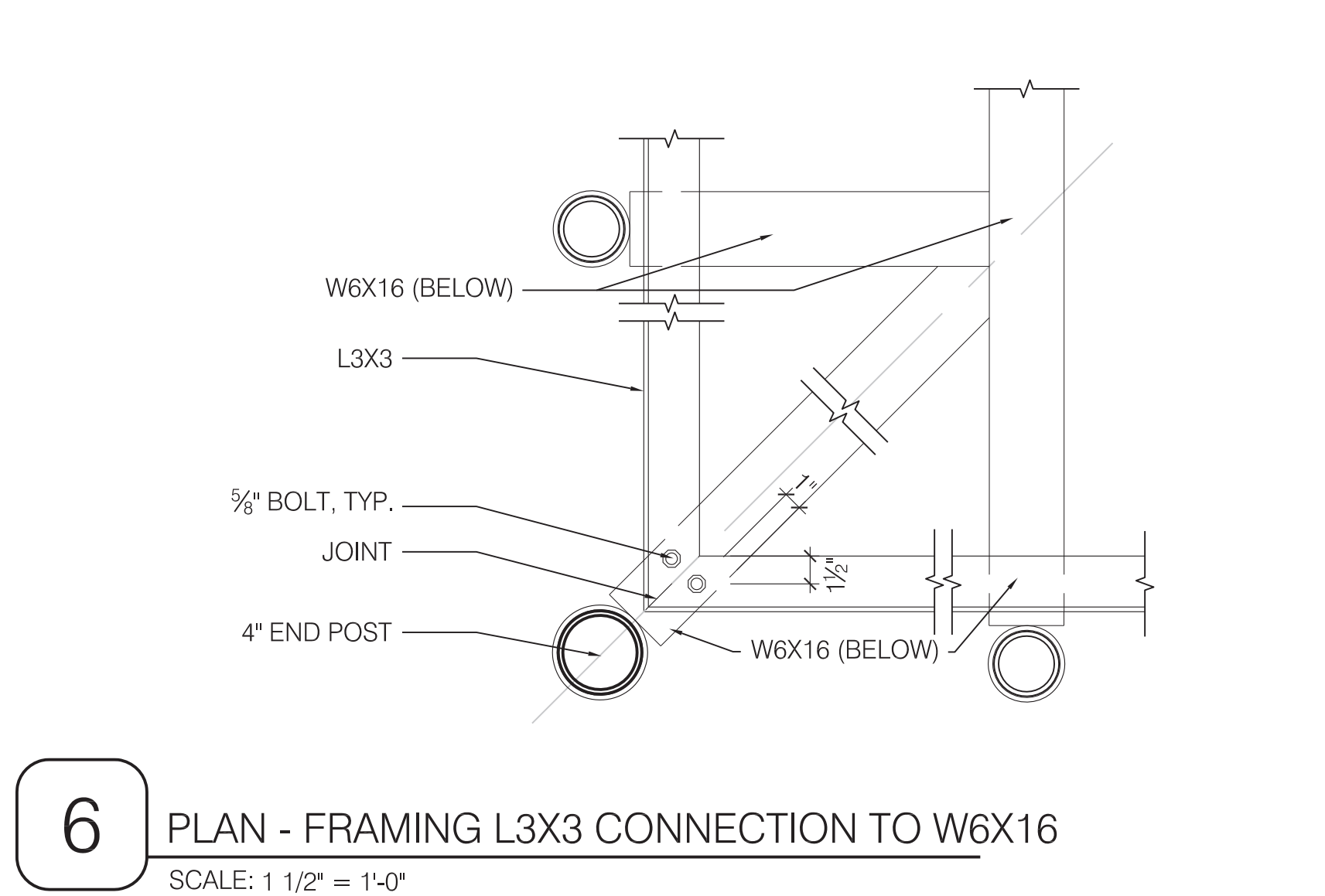
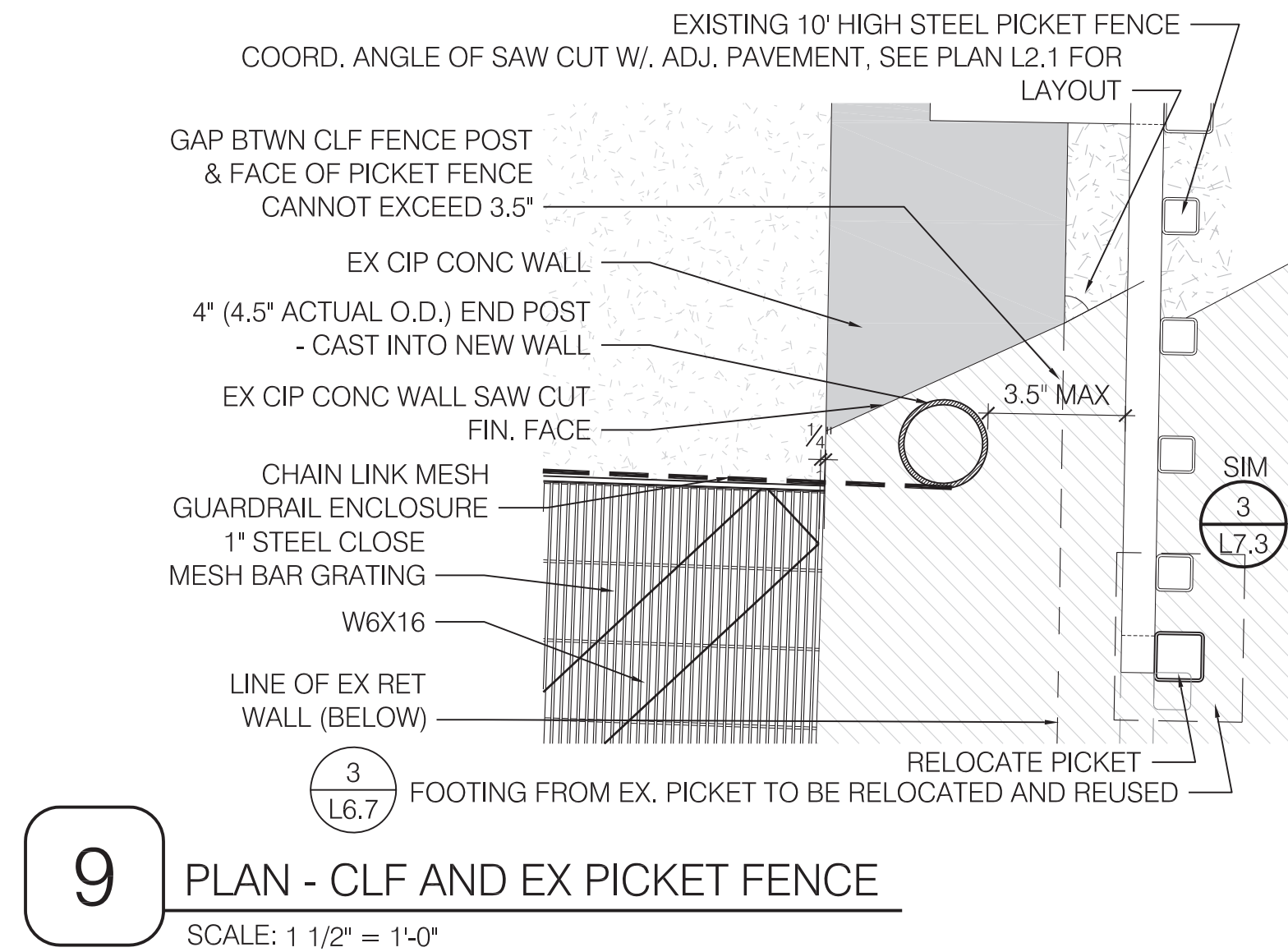
2 SECTION THROUGH TREE GRATE

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



1 SECTION THROUGH METAL GRATE

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



REVISIONS:		
REV	DATE	NOTE

PROJECT: KMDG #1604
HOYT SULLIVAN PLAYGROUND
117 CENTRAL STREET
SOMERVILLE, MA 02145

DRAWING:

PLATFORM DETAILS 1

DRAWN: DC REVIEW: KP

SCALE: AS NOTED

DATE: 16 FEBRUARY 2017

SHEET:



L7.4

CLIENT:
CITY OF SOMERVILLE,
MASSACHUSETTS
DIRECTOR OF PARKS AND OPEN SPACE
ARN FRANZEN
t: 617.625.6600x2545
afransen@somervillema.gov

REVISIONS:

[illegible]

PROJECT: KMDG #1604

HOYT SULLIVAN
PLAYGROUND

117 CENTRAL STREET
SOMERVILLE, MA 02145

DRAWING:

PLATFORM DETAILS 2

DRAWN: DC REVIEW: KP

SCALE:
AS NOTED

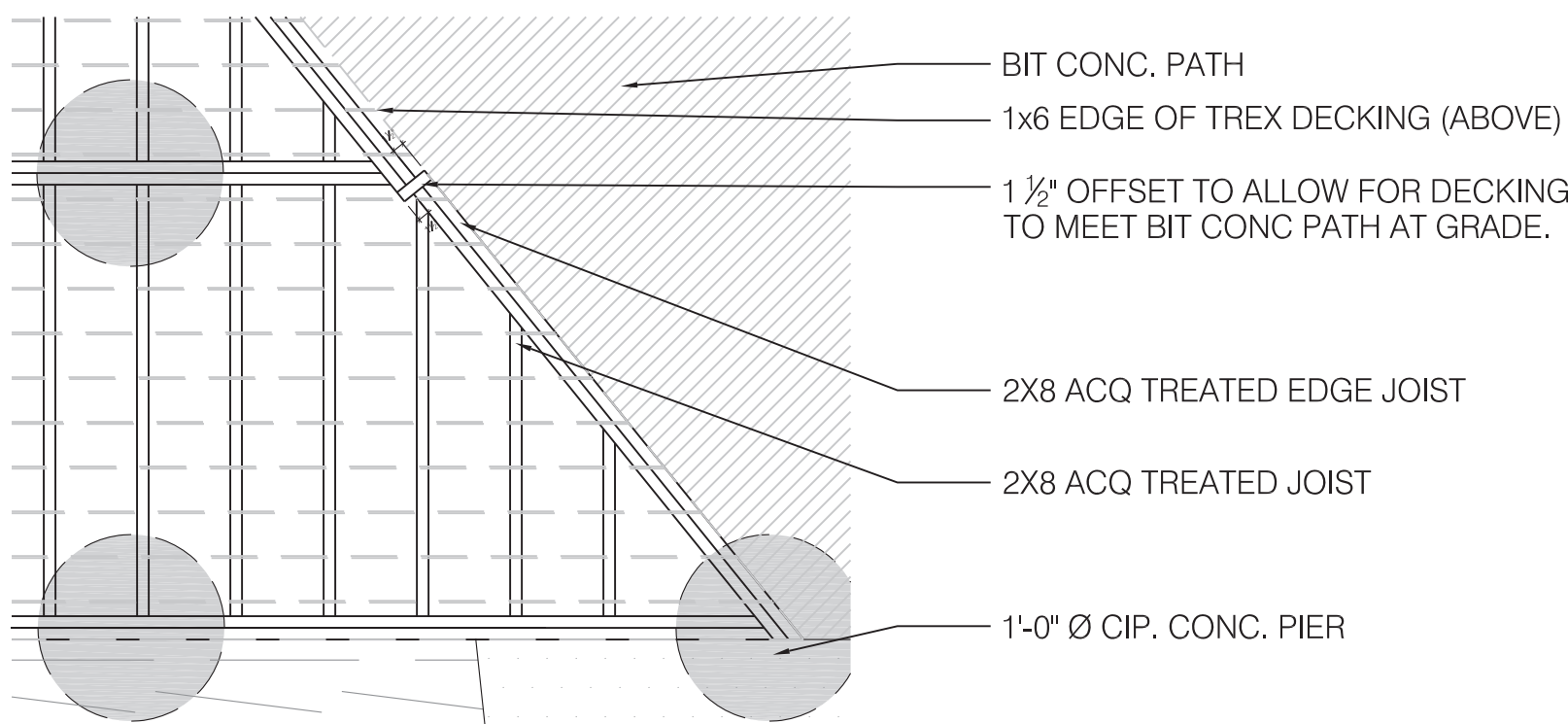
DATE:
16 FEBRUARY 2017

SHEET:



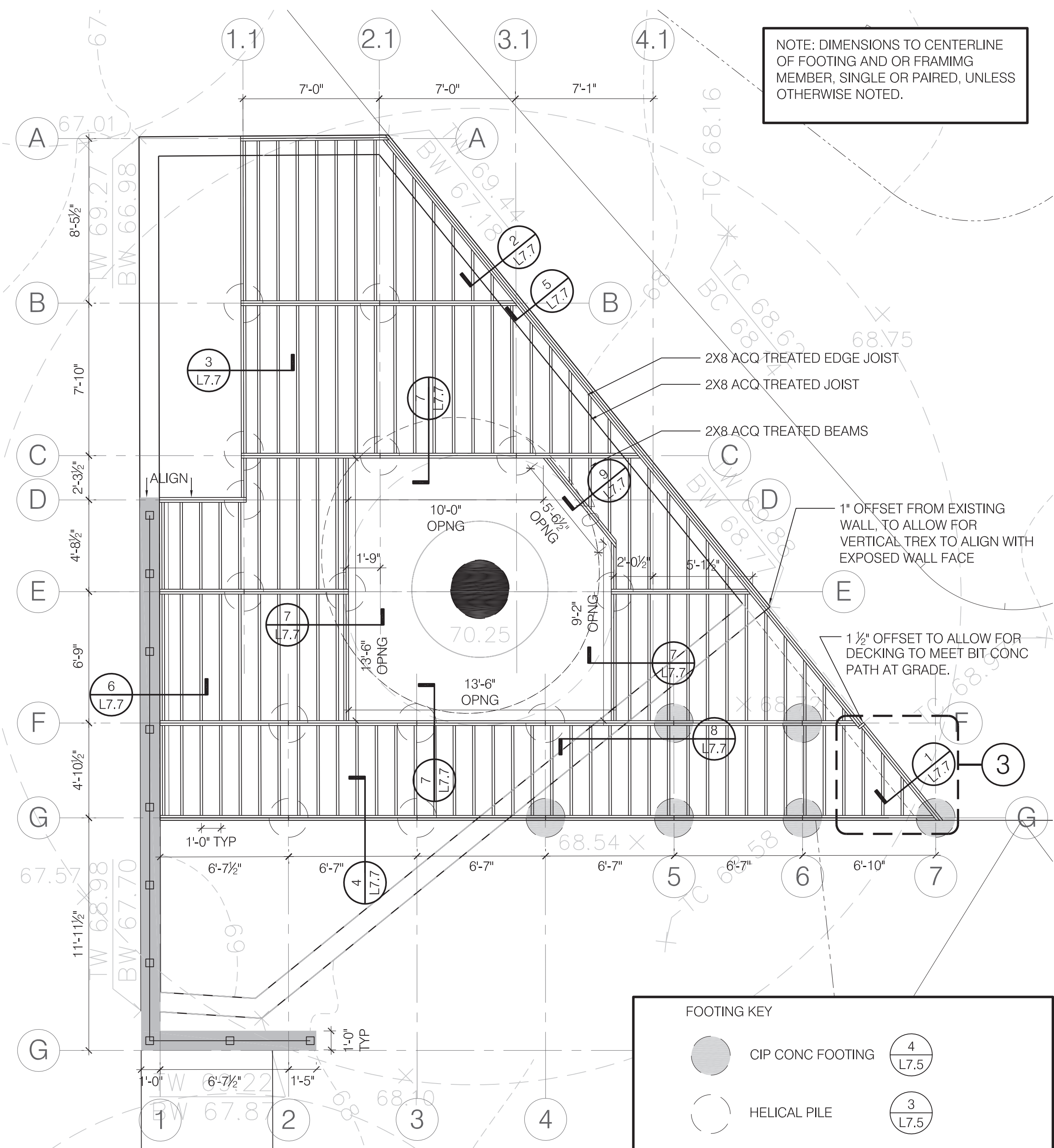
L7.5





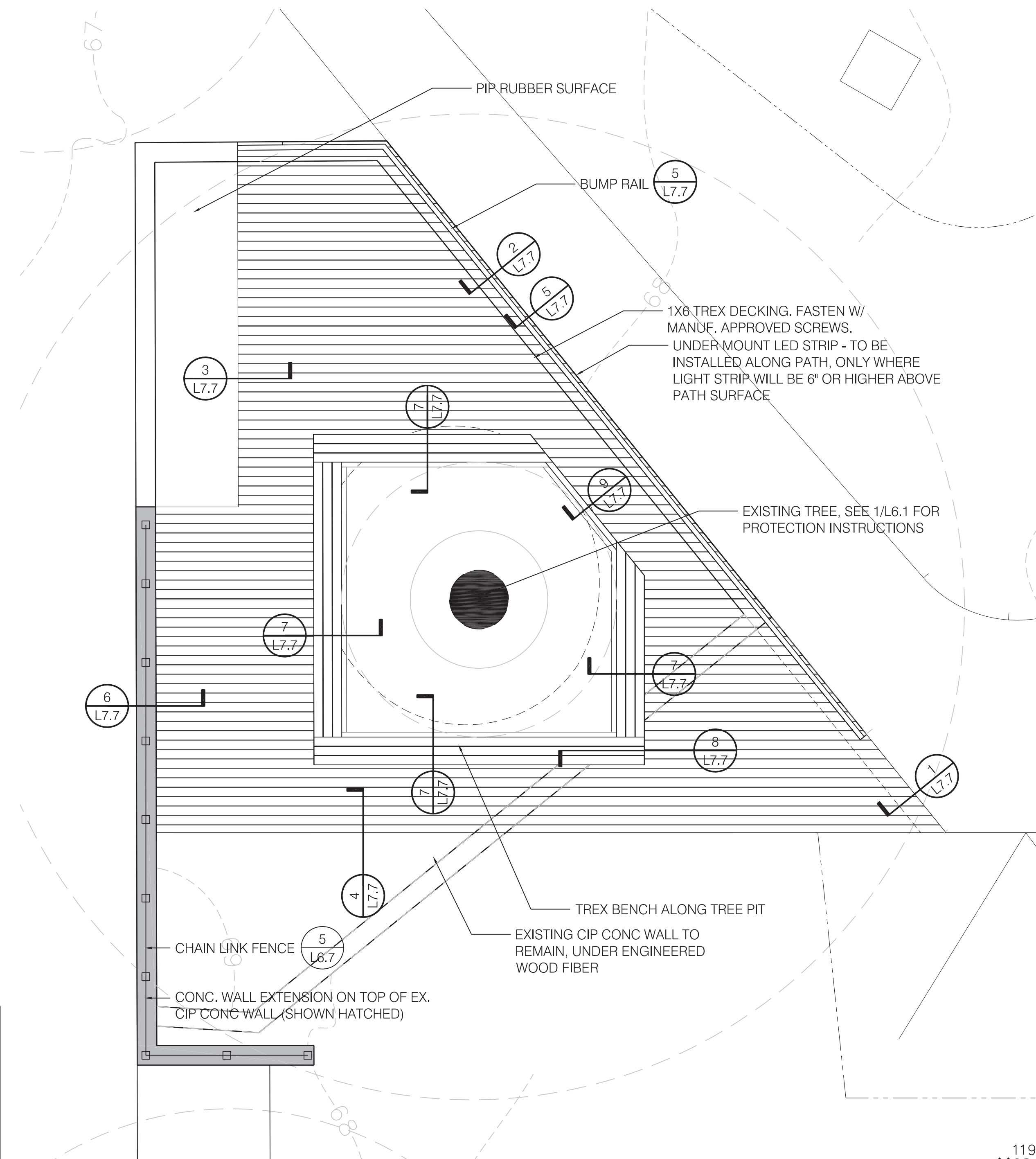
3 PLAN - FRAMING AT BIT CONC PATH

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



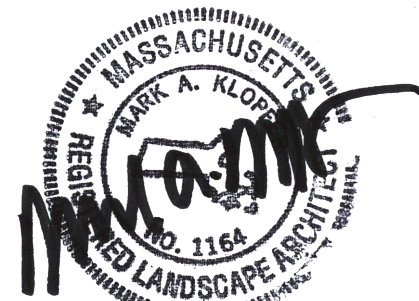
2 FRAMING PLAN

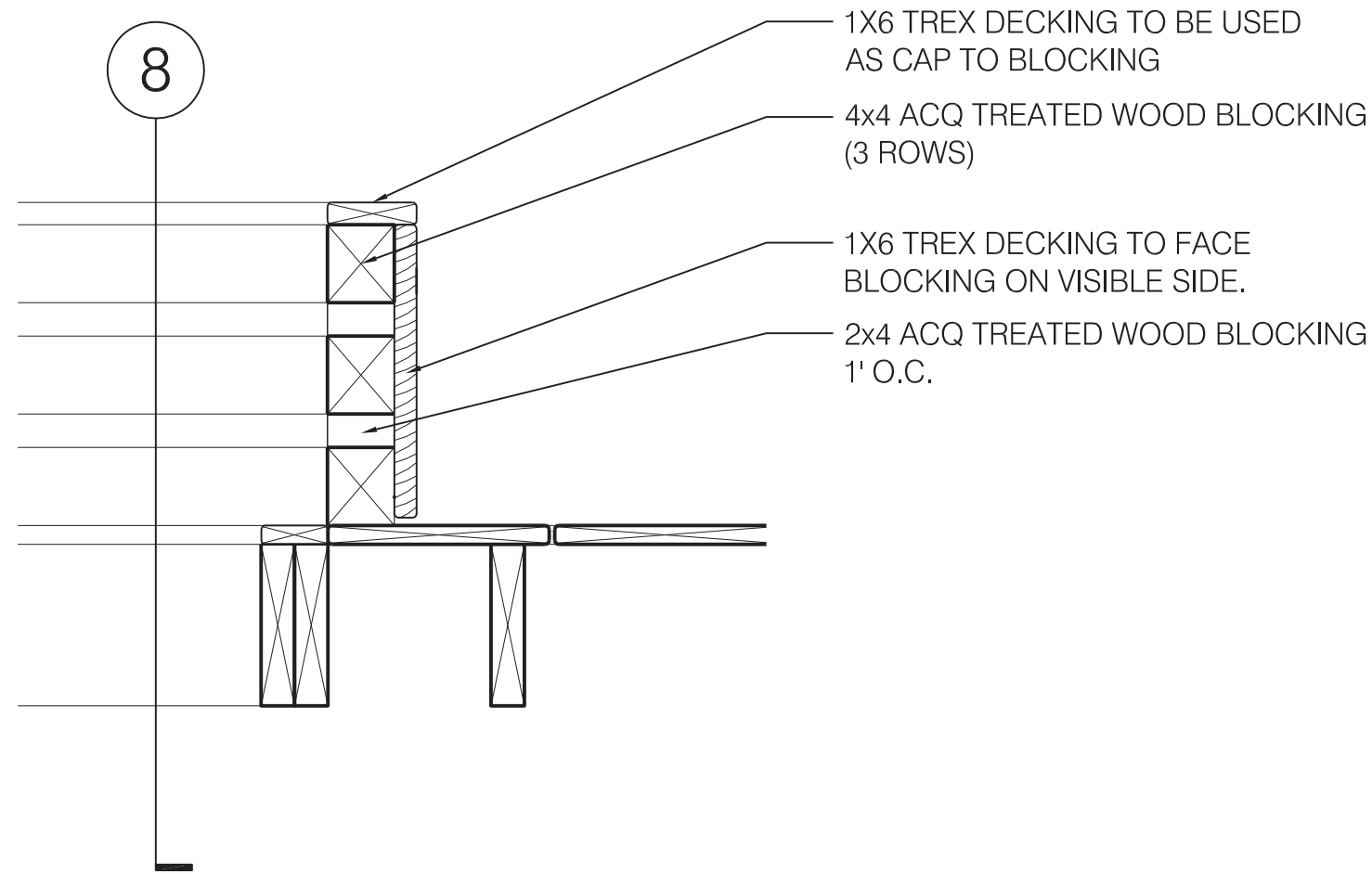
SCALE: 1/4" = 1'-0"



1 DECKING PLAN

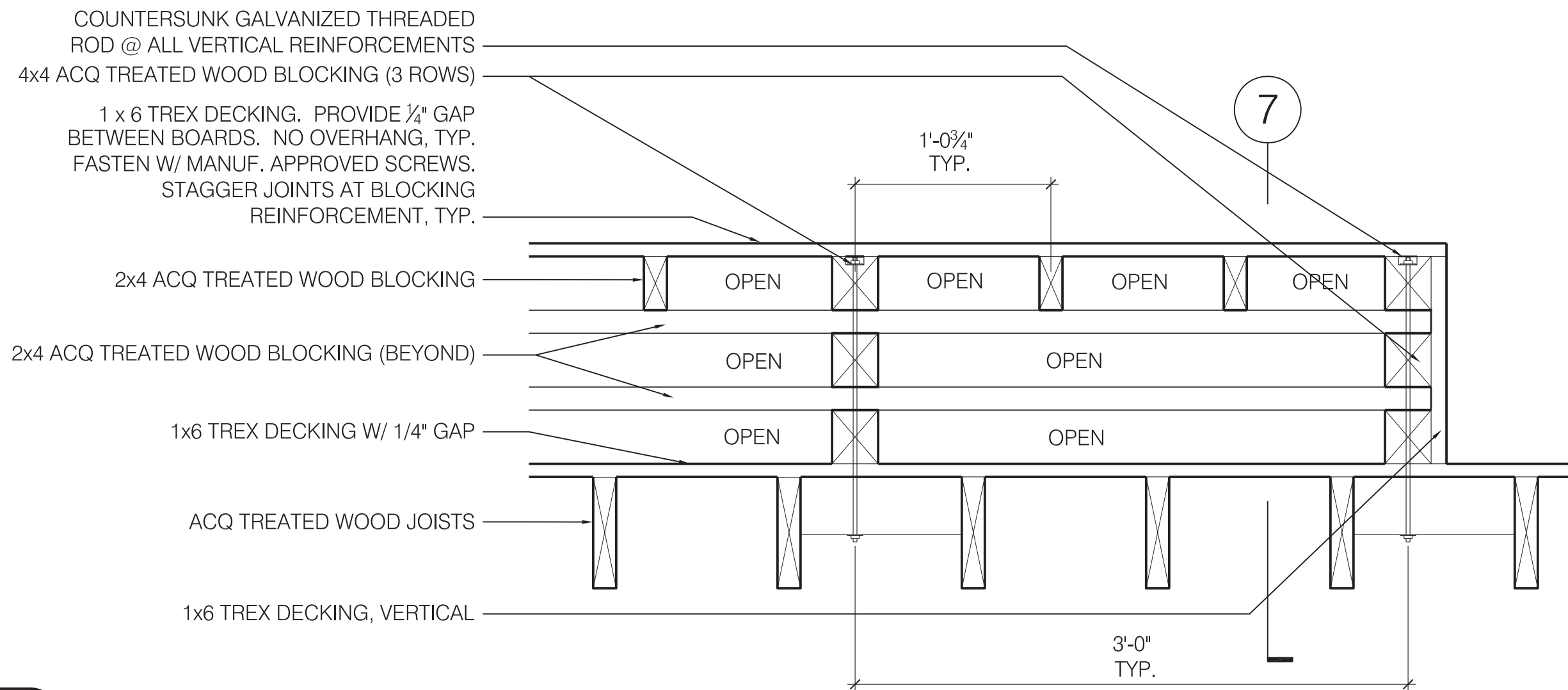
SCALE: 1/4" = 1'-0"





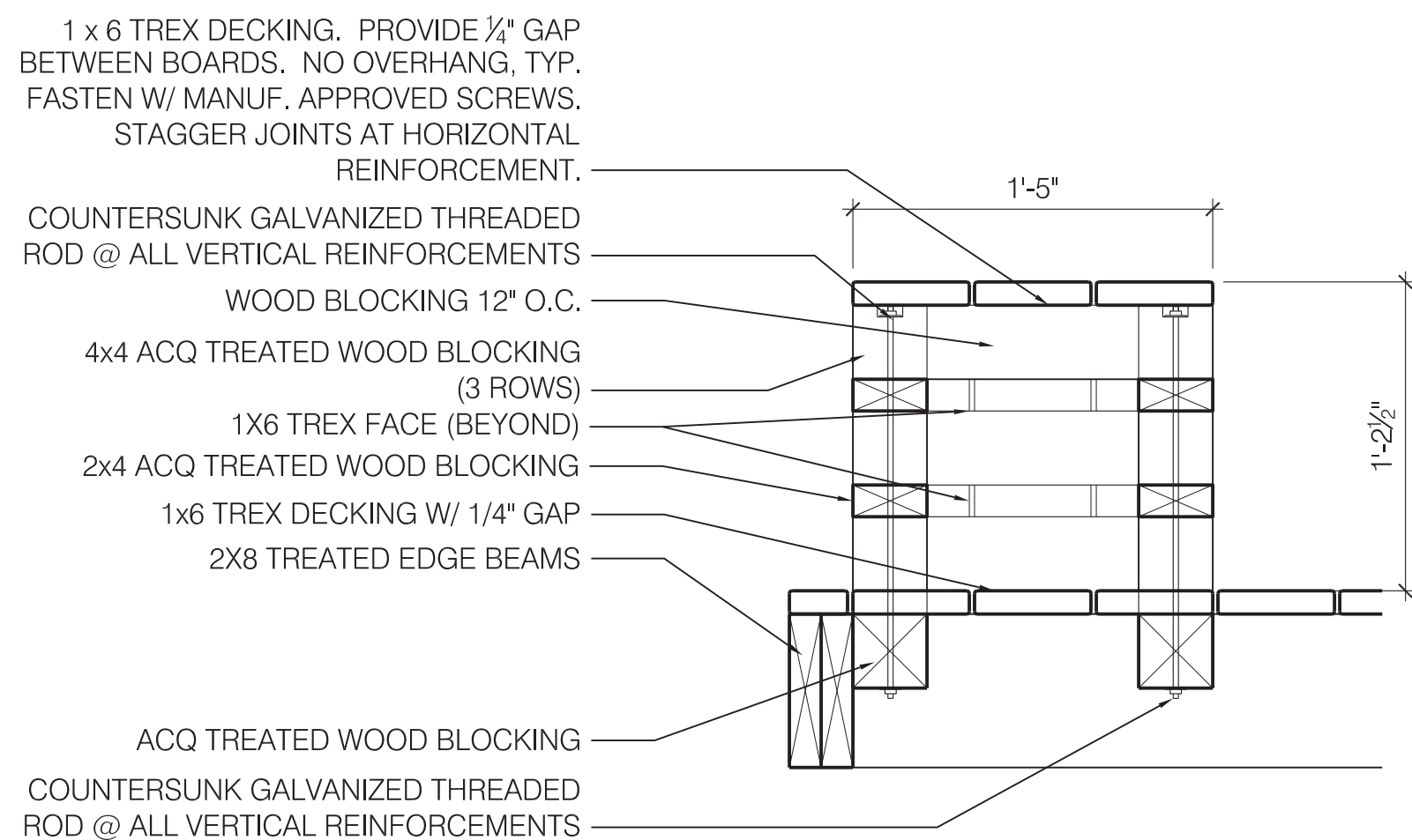
9 DECK BENCH RAILING

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



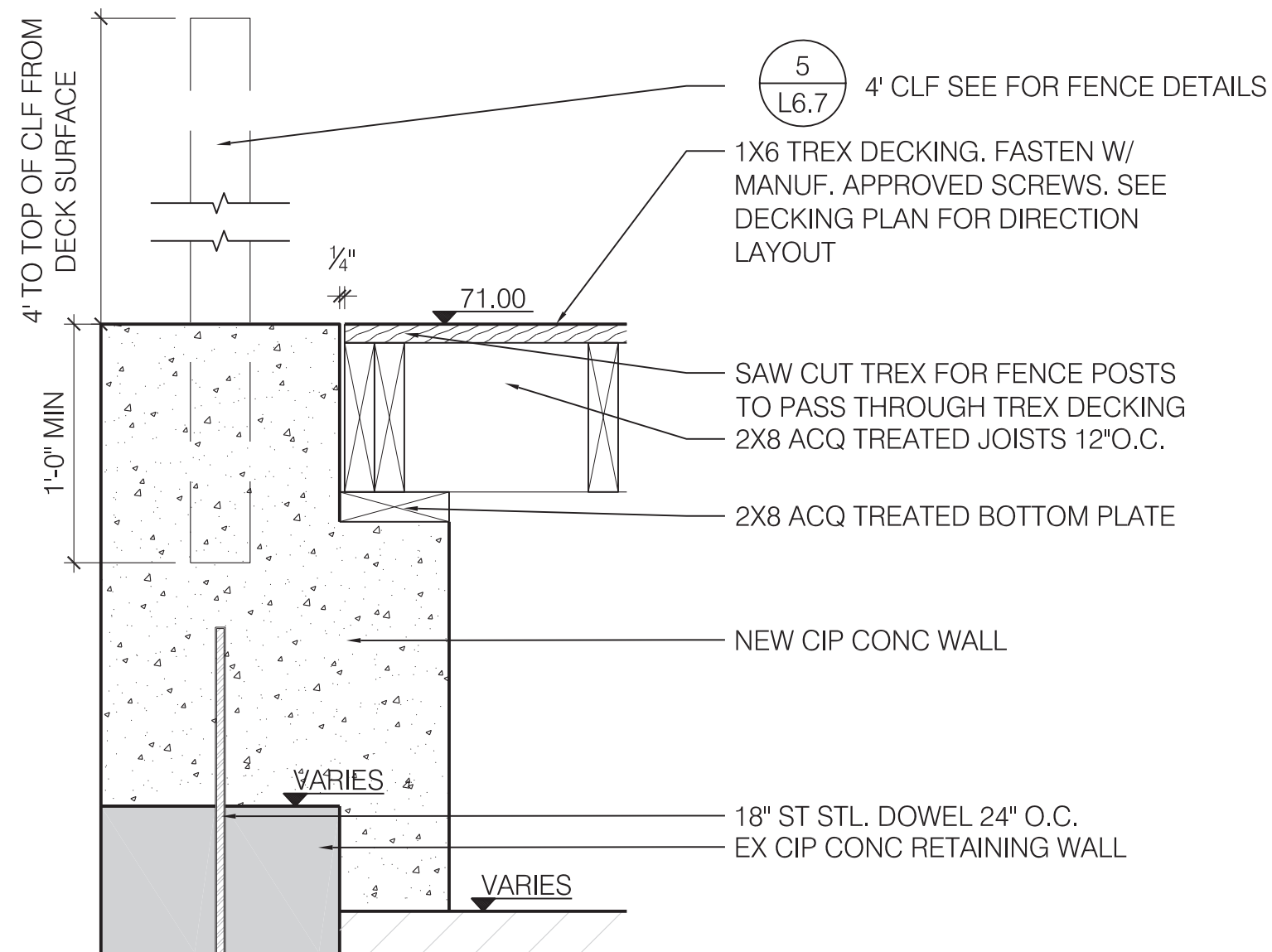
8 DECK BENCH - LONG SECTION

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



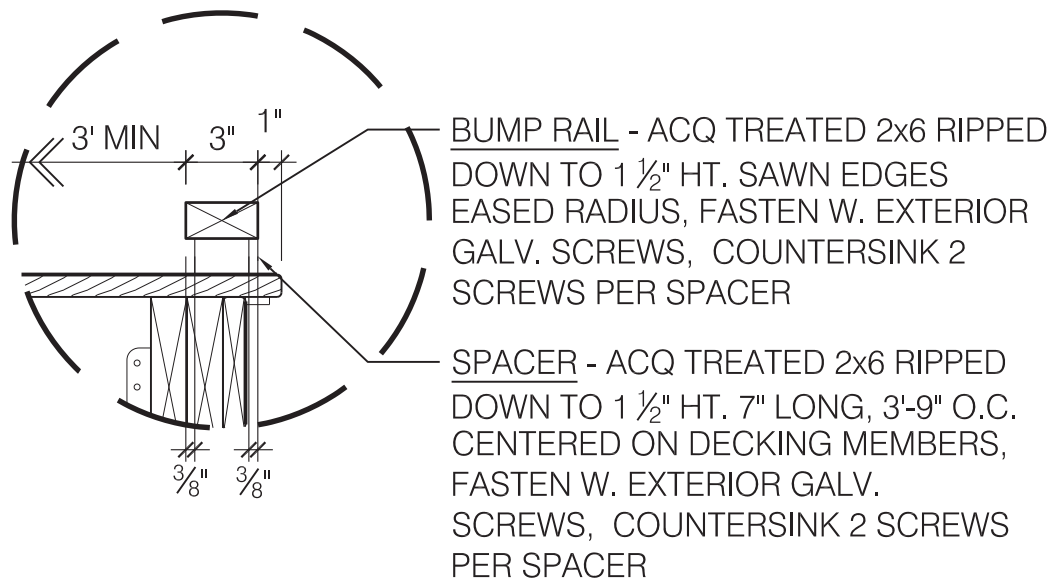
7 DECK BENCH - SHORT SECTION

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



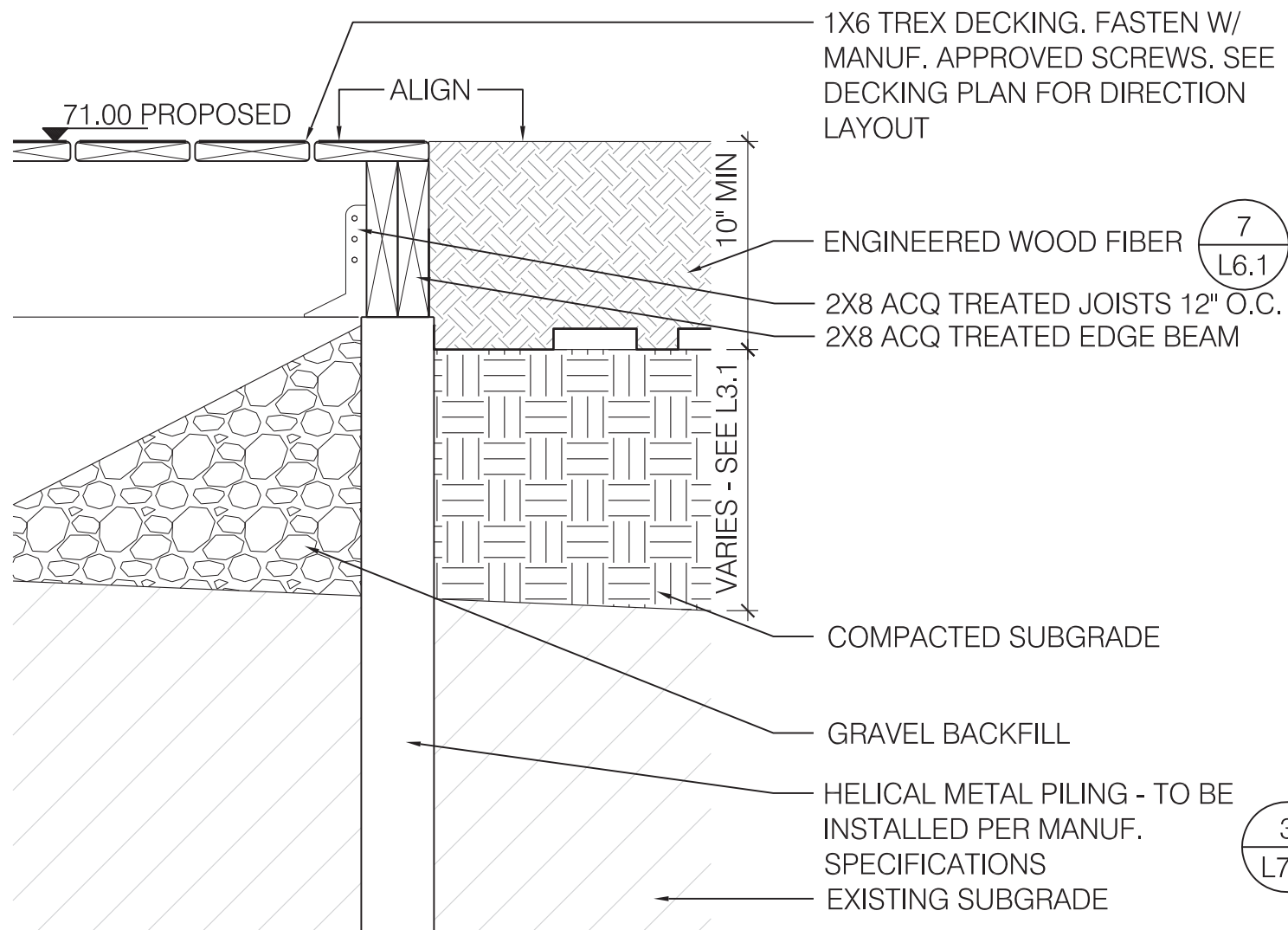
6 DECK EDGE WITH RAILING IN EX CIP CONC WALL

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



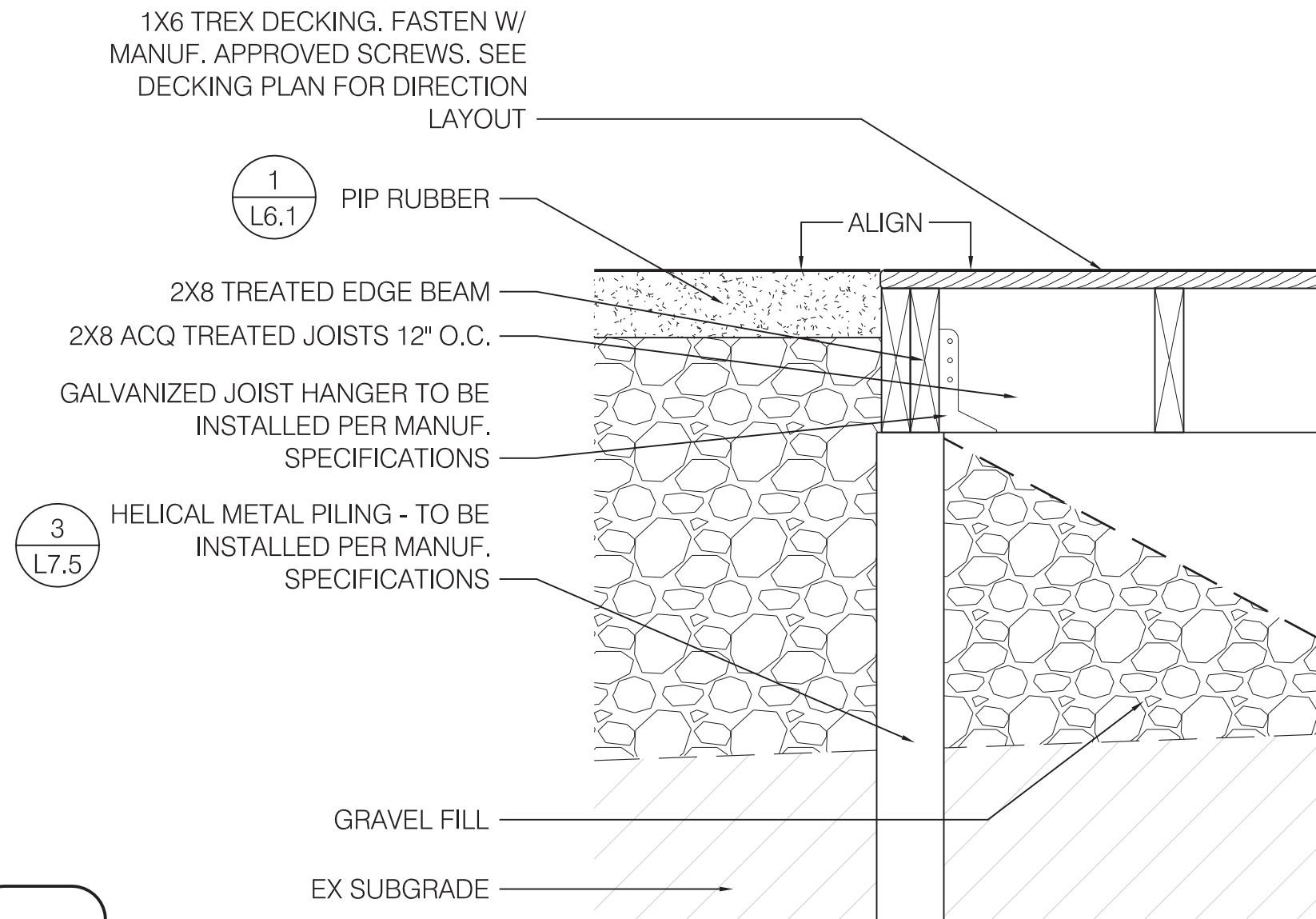
5 BUMP RAIL

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



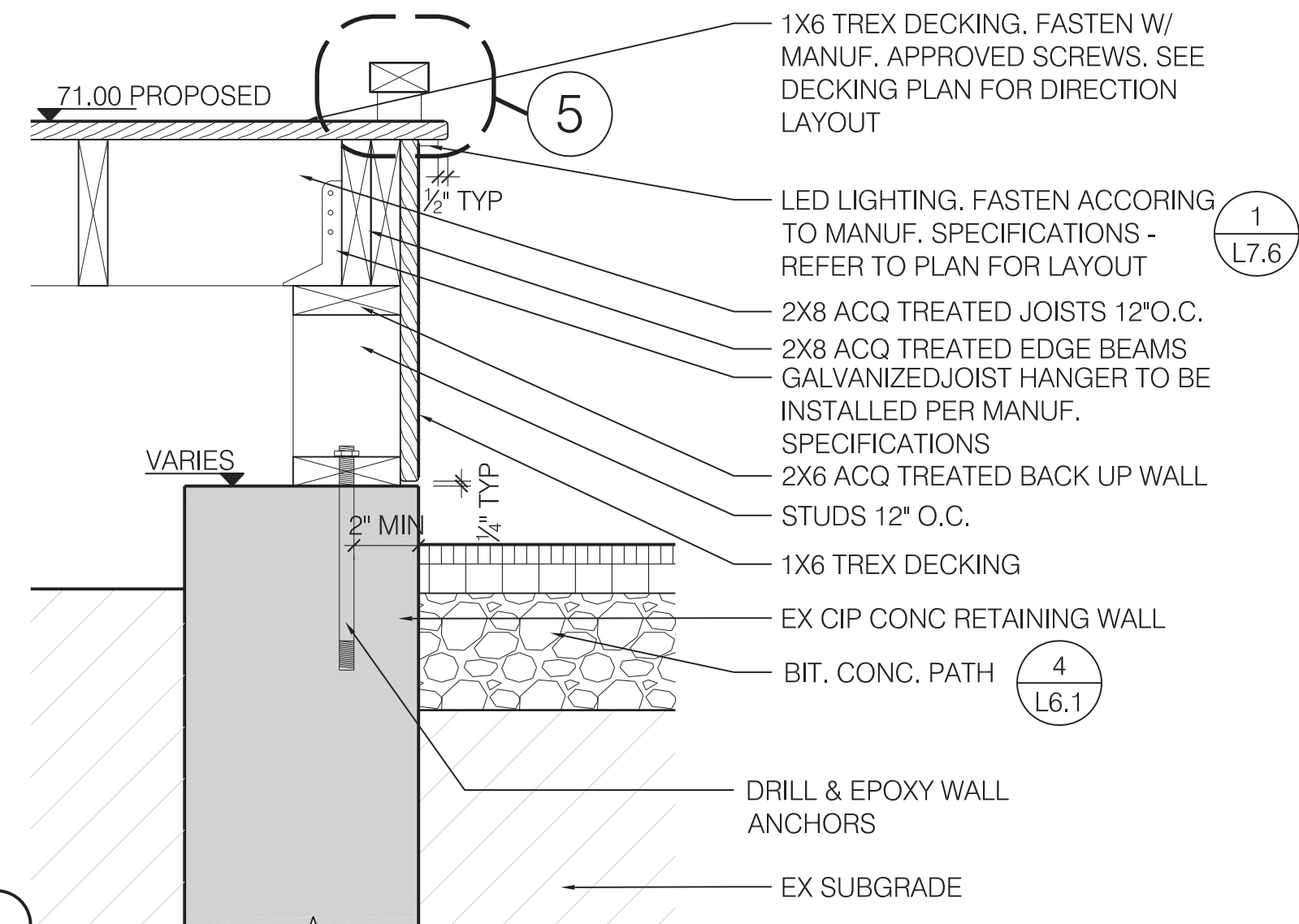
4 DECK @ WOOD FIBER

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



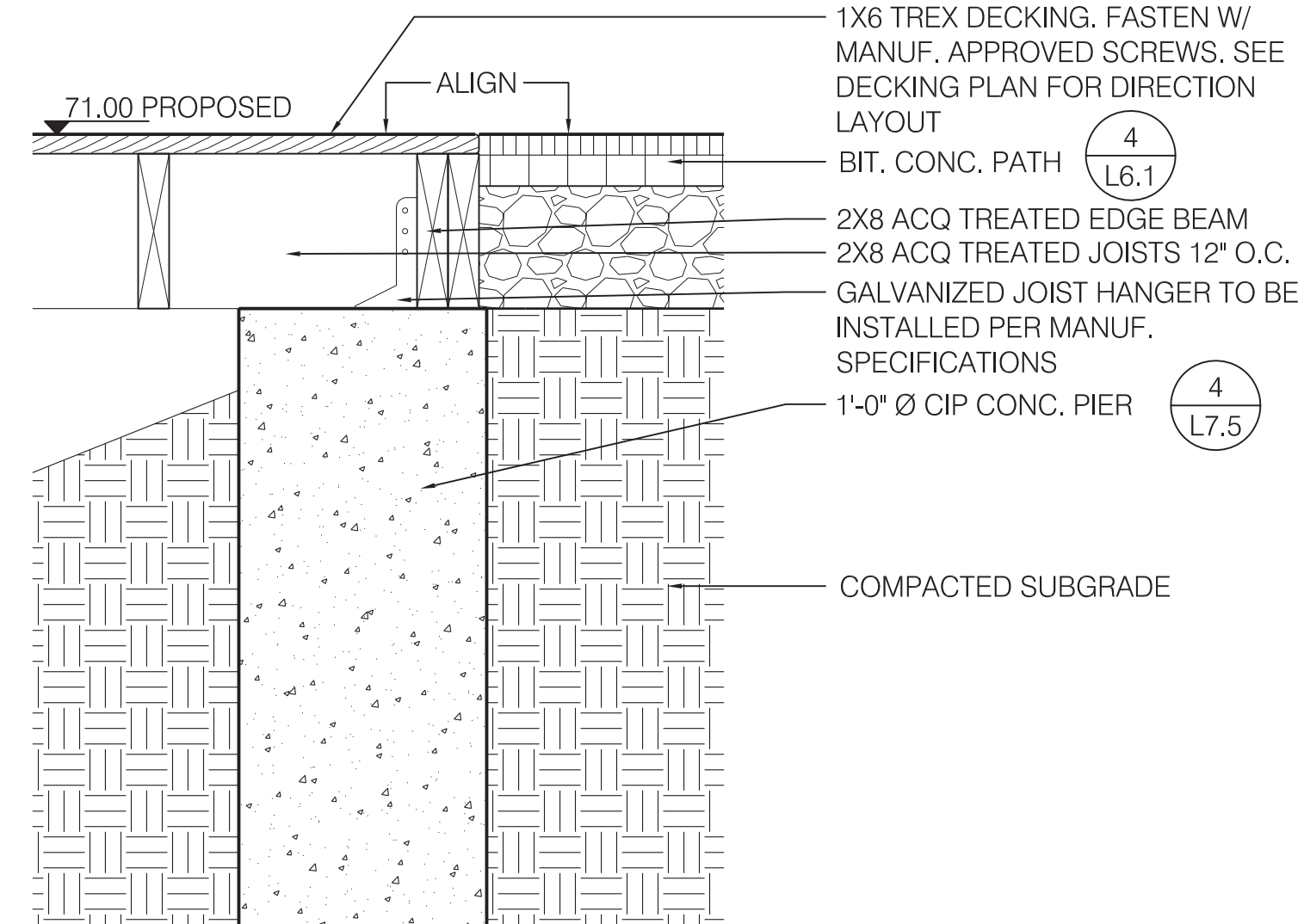
3 DECK @ PIP RUBBER

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



2 DECK @ WALL ABOVE BIT CONC PATH

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



1 DECK & BIT CONC @ GRADE

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