

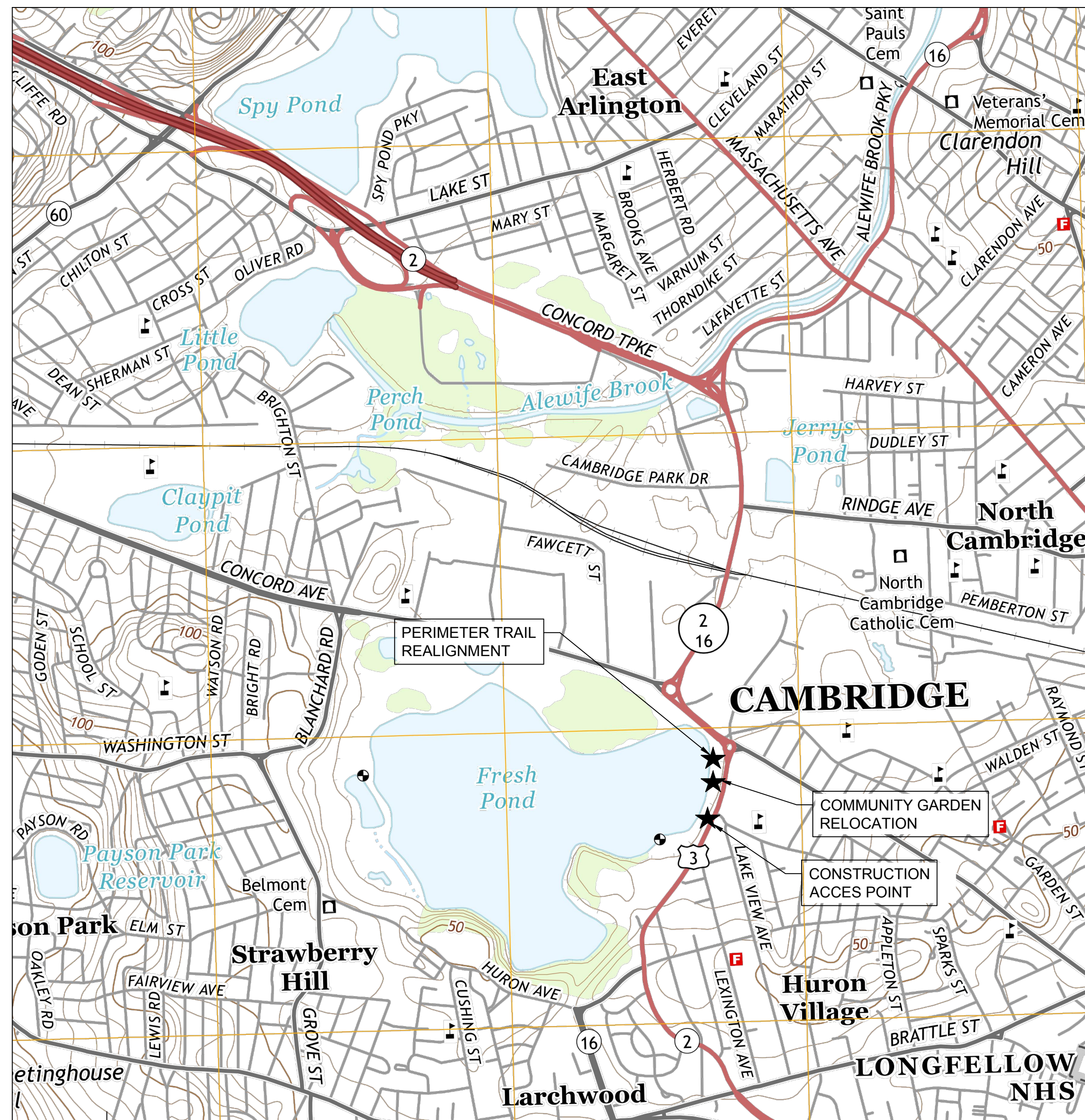
ATTACHMENT G – FRESH POND AND COMMUNITY GARDENS DRAINAGE
IMPROVEMENTS PLANS (NOI PLANS DATED OCTOBER 2016)

CITY OF CAMBRIDGE WATER DEPARTMENT
**FRESH POND AND COMMUNITY GARDENS
 DRAINAGE IMPROVEMENTS PROJECT**
 CITY OF CAMBRIDGE, MIDDLESEX COUNTY, MASSACHUSETTS

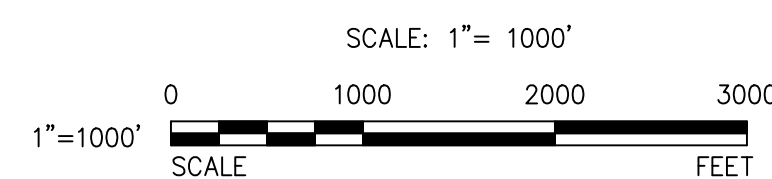
OCTOBER 2016

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LOCATION PLAN



NOI SUBMITTAL

PREPARED BY PROJECT DESIGN TEAM:



GENERAL NOTES:

- TOPOGRAPHIC SURVEY OF EXISTING CONDITIONS PROVIDED BY PRECISION LAND SURVEYING, INC. TOPOGRAPHIC INFORMATION WITHIN THE RAILROAD RIGHT OF WAY AND WESTERLY OF THE FRESH POND PERIMETER FENCE IS THE RESULT OF A GROUND SURVEY PERFORMED BY PRECISION LAND SURVEYING, INC. ON JANUARY 6, 2015; ALL OTHER INFORMATION HAS BEEN SHOWN PER A PREVIOUS SURVEY BY PRECISION LAND SURVEYING, INC. DATED JULY 9, 2009. TEST PITS FOR SOIL TESTING WERE PERFORMED BY KLEINFELDER (FORMERLY SEA CONSULTANTS INC.), ON JUNE 16, 2010.
- THE ELEVATIONS SHOWN HEREON ARE BASED ON THE CITY OF CAMBRIDGE DATUM, AND WERE CALCULATED BY PRECISION LAND SURVEYING, INC. USING GPS OBSERVATION ON 6/23/09 AND OPUS REDUCTION ON 7/15/09.
- LOCATION AND ELEVATIONS OF ALL EXISTING SITE FEATURES, UTILITIES AND PROPOSED WORK ARE BASED ON THE BEST AVAILABLE INFORMATION. EXACT LOCATION AND COMPLETENESS IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL SUCH LOCATIONS AT THE SITE PRIOR TO CONSTRUCTION AND PROTECT ALL UTILITIES ENCOUNTERED.
- TEST PITS WERE CONDUCTED FOR PURPOSES OF DESIGN AND INDICATE CONDITIONS AT LOCATIONS OF BORINGS ONLY. SUBSURFACE CONDITIONS MAY VARY FROM THOSE SHOWN IN THE LOGS. GROUNDWATER LEVELS INDICATED IN THE LOGS ARE THOSE EXISTING AT THE TIME BORINGS WERE MADE AND DO NOT REPRESENT PERMANENT GROUNDWATER LEVELS. FOR COPIES OF TEST PIT LOGS, REFER TO APPENDIX A OF THE SPECIFICATIONS.
- FINAL GRADING SHALL BE UNIFORM BETWEEN SPOT ELEVATIONS AND CONTOURS. PROVIDE UNIFORM SLOPE BETWEEN ELEVATIONS INDICATED ON DRAWINGS.
- THE CONTRACTOR SHALL TEMPORARILY MATCH EXISTING GRADES AND CONDITIONS WITHIN THE CONSTRUCTION AREA UNTIL FINAL RESTORATION IS COMPLETE.
- WITHIN THE LIMITS INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL PROVIDE NEW PAVEMENT IN ACCORDANCE WITH THE DRAWINGS AND DETAILS. FOR ADDITIONAL REQUIREMENTS, REFER TO THE SPECIFICATIONS.
- ALL PATHWAYS AND STRUCTURES SHALL BE LOCATED IN ACCORDANCE WITH DIMENSIONS DEFINED ON THE LAYOUT AND GRADING & DRAINAGE PLAN AND PROFILE, SHEETS C-4 AND C-5.
- ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. A MASSACHUSETTS OR INTERNATIONAL CERTIFIED ARBORIST SHALL BE SUB-CONTRACTED BY THE CONTRACTOR TO PROVIDE A TREE PROTECTION PLAN AND TO SUPERVISE THE SPECIFIED WORK. PROTECTION TECHNIQUES SHALL BE REVIEWED AND APPROVED BY THE ENGINEER. REFER TO TREE PROTECTION & REMOVAL PLAN, SHEET C-4.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS AT THE SITE.
- UNPAVED AREAS DISTURBED BY THE CONTRACTOR SHALL BE CLEARED AND GRUBBED, IF REQUIRED, AND RESTORED WITH LOAM AND SEED UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL BENCHMARK ELEVATIONS.
- THE ENGINEER MAY DIRECT THE CONTRACTOR TO VARY THE PROPOSED WORK DURING CONSTRUCTION TO MEET EXISTING CONDITIONS.
- EXCAVATION OF ANY TYPE SHALL BE ACCOMPLISHED IN SUCH A MANNER THAT UNDERGROUND UTILITIES OR STRUCTURES ARE NOT DAMAGED. ALL ROADWAYS, PARKING AREAS, SIDEWALKS, AND OTHER STRUCTURES DISTURBED BY CONSTRUCTION IN OR OUTSIDE THE PROJECT AREA SHALL BE RETURNED TO THEIR ORIGINAL CONDITION OR BETTER AND SHALL BE GRADED TO MEET PROPOSED CONSTRUCTION AS DIRECTED BY THE ENGINEER. ALL COSTS RELATED TO THE REPAIR OF DAMAGED UTILITIES SHALL BE BORNE BY THE CONTRACTOR.
- THE CONTRACTOR SHALL DIG TEST PITS AS DIRECTED BY THE RESIDENT ENGINEER, AND AS MAY OTHERWISE BE REQUIRED TO DETERMINE THE SIZE, LOCATION, AND DEPTH OF EXISTING UNDERGROUND PIPING AND UTILITIES TO SATISFY HIMSELF AND ENSURE PROPER COORDINATION OF THE WORK. TEST PITS SHALL BE AT NO ADDITIONAL COST TO THE OWNER. ANY CONFLICTS NOTED IN PROPOSED CONSTRUCTION SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- ALL UTILITY BOXES, MANHOLES, FRAMES, GRATES, ETC., NOT TO BE DEMOLISHED SHALL BE RESET TO THE PROPER GRADE UTILIZING APPROPRIATE MATERIALS AND PROCEDURES.
- THE CONTRACTOR SHALL FILL AND GRADE AREAS ADJACENT TO NEW CONSTRUCTION FOR POSITIVE DRAINAGE AND AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL ERECT EROSION CONTROL MEASURES PRIOR TO COMMENCING ANY WORK ON-SITE. REFER TO SPECIFICATIONS AND DRAWINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATION AND ACTIVITIES OF HIS FORCES WITH THE OWNER, ENGINEER AND ABUTTING PROPERTY OWNERS TO MINIMIZE INTERFERENCE WITH EXISTING FACILITIES AND OPERATIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ALL AREAS OF EXCAVATION, BACKFILL, FILL AND GRADING SHALL BE RETURNED TO THE ORIGINAL GRADE UNLESS SHOWN ON THE DRAWINGS.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES AND SHALL PROVIDE ALL NECESSARY CONTINUOUS BARRIERS OF SUFFICIENT TYPE, SIZE AND STRENGTH TO PREVENT ACCESS TO ALL OPEN EXCAVATIONS AT THE COMPLETION OF EACH DAYS WORK. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- IT IS THE INTENT OF THE CONTRACT DOCUMENTS TO PRESCRIBE A COMPLETE WORK OR IMPROVEMENT. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND ANY REQUIREMENTS INDICATED IN ONE OF THE DOCUMENTS IS AS BINDING AS HAVING BEEN INDICATED IN ALL. IF A CONFLICT EXISTS BETWEEN ANY OF THE CONTRACT DOCUMENTS, IT SHALL BE RESOLVED IN ACCORDANCE WITH THE "AGREEMENT".
- STOCKPILING OF CONSTRUCTION MATERIALS WITHIN 100 FT. OF WETLANDS IS PROHIBITED.
- THE CONTRACTOR SHALL PREMARK THE PROJECT AREA IN GENERAL AND EXCAVATION AREAS SPECIFICALLY IN WHITE AND NOTIFY THE DIG SAFE CENTER (8-1-1) A MINIMUM OF 72 BUSINESS HOURS PRIOR TO ANY EXCAVATION WORK. IN ADDITION, NOTIFICATIONS SHALL BE GIVEN TO ALL AFFECTED PRIVATE AND/OR PUBLIC UTILITIES TO PERMIT MARKING OF THEIR LINES.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS BEFORE COMMENCING CONSTRUCTION.
- THE CONTRACTOR MUST MAINTAIN VEHICULAR ACCESS TO EXISTING FACILITIES DURING NORMAL OPERATING HOURS. NORMAL OPERATING HOURS ARE 7:00 AM TO 4:00 PM.
- THE CONTRACTOR SHALL EXECUTE AND COORDINATE HIS CONSTRUCTION ACTIVITIES IN SUCH A MANNER THAT VEHICULAR AND PEDESTRIAN ACCESS WILL BE MAINTAINED CONTINUOUSLY AND WITHOUT INTERRUPTION TO BUSINESSES AND ABUTTERS IN A MANNER ACCEPTABLE TO THE CITY OF CAMBRIDGE.
- SAFETY SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES AND SHALL PROVIDE ALL NECESSARY CONTINUOUS BARRIERS OF SUFFICIENT TYPE, SIZE, AND STRENGTH TO PREVENT ACCESS TO ALL OPEN EXCAVATIONS AT ALL TIMES.
- CONTRACTOR SHALL COORDINATE THE LOCATION, PROTECTION, RESTORATION AND/OR ABANDONMENT OF THE THREE (3) MONITORING WELLS LOCATED WITHIN THE PROJECT AREA WITH THE OPERATOR OF THE MONITORING WELLS (GROUNDWATER & ENVIRONMENTAL SERVICE, INC 1-800-221-6119).

GEOTECHNICAL NOTES:

- FOR EARTH EXCAVATION, BACKFILL, FILL AND GRADING, SEE SPECIFICATION SECTION 02210.
- FOR DEWATERING, SEE SPECIFICATION SECTION 02140.

SEQUENCING NOTE:

- CONTRACTOR TO PROVIDE TEST PITS FOR VERIFICATION OF LOCATION, LAYOUT, CRITICAL DIMENSIONS AND ANY OTHER RELEVANT INFORMATION AT ALL EXISTING BURIED FACILITIES THAT REQUIRE TIE-IN, MODIFICATION, OR ANY OTHER WORK. CONTRACTOR TO PROVIDE DETAILED DRAWING SHOWING PROPOSED ROUTING AND CONNECTIONS BASED ON FIELD-VERIFIED DATA.

EXISTING

- EXISTING CHAIN LINK FENCE
- EXISTING WATER LINE
- EXISTING ELECTRICAL LINE
- EXISTING GAS LINE
- EDGE OF WATER
- PROPERTY BOUNDARY/ EASEMENT
- RAILROAD TRACK
- EXISTING CONTOURS
- UTILITY POLE
- LIGHT POLE
- BURIED WATER GATE VALVE
- TOP OF BANK FLAG
- TRAFFIC SIGNAL
- FIRE HYDRANT
- X" TREE
- TREE LINE
- STRUCTURE
- TEST PIT
- MONITORING WELL

GENERAL LEGEND:

PROPOSED

- PROPOSED GRADING
- PROPOSED SPOT ELEVATION
- PROPOSED UNDERDRAIN
- SURFACE RUNOFF FLOW DIRECTION
- LIMIT OF DISTURBANCE
- STRAW WATTLE
- TURBIDITY BARRIER
- PROPOSED WATER LINE ROUTE
- PROPOSED 4" TALL CHAIN LINK FENCE
- PROPOSED 4" TALL WOOD AND WIRE MESH FENCE
- PROPOSED WATER VALVE
- PROPOSED WATER LINE TEE
- PROPOSED YARD INLET
- PROPOSED DRAINAGE PIPE
- PROPOSED STONE/RIPRAP
- PROPOSED BIORETENTION MEDIA
- PROPOSED BITUMINOUS CONCRETE PAVEMENT
- PROPOSED COMPACTED STONE DUST
- PROPOSED STALOK
- DEMOLITION
- TREE PROTECTION FENCE SURROUNDING TREE TO BE PRESERVED
- BANK LINE
- 100-FOOT BUFFER LINE

SOILS LEGEND

- 654: UDORTHENTS, LOAMY
- 621B: SCIO-URBAN LAND COMPLEX, 0 TO 8 PERCENT SLOPES

ABBREVIATIONS

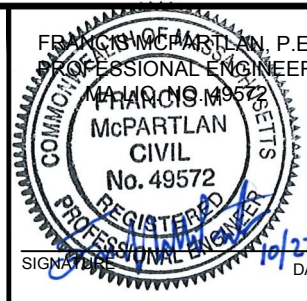
- BIT CONC BITUMINOUS CONCRETE
- CAMB CAMBRIDGE
- CB CATCH BASIN
- CLF CHAIN LINK FENCE
- CO CLEAN OUT
- CONC CONCRETE
- DMH DRAIN MANHOLE
- ELEC ELECTRIC
- EMH ELECTRIC MANHOLE
- GC GRANITE CURB
- GG GAS GATE
- HYD HYDRANT
- I= INVERT=
- LP LIGHT POLE
- MH MANHOLE
- P POST
- PL PLASTIC FENCE
- ROW RIGHT OF WAY
- R= RIM=
- RCP REINFORCED CONCRETE PIPE
- TC= TOP OF CURB=
- TRANS TRANSFORMER
- V VENT
- WF WOOD FENCE
- WG WATER GATE
- WV WATER VALVE
- 10" T 10" TREE

NOI

SCALE VERIFICATION
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IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY
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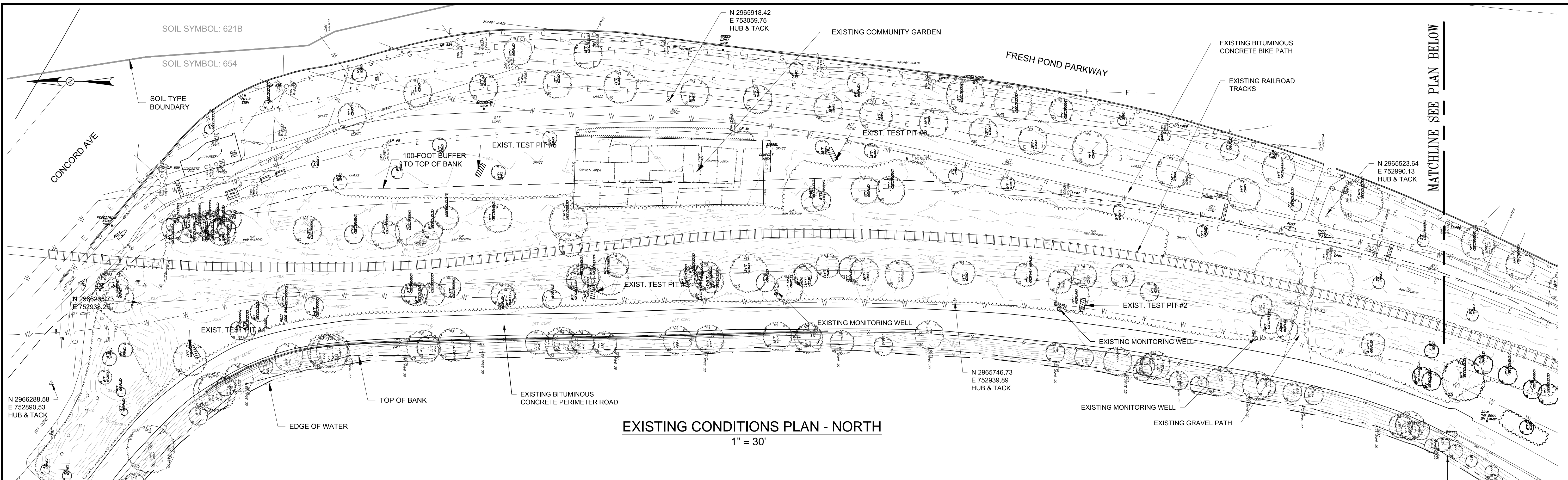


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Checked by	FM	No.	Description Date
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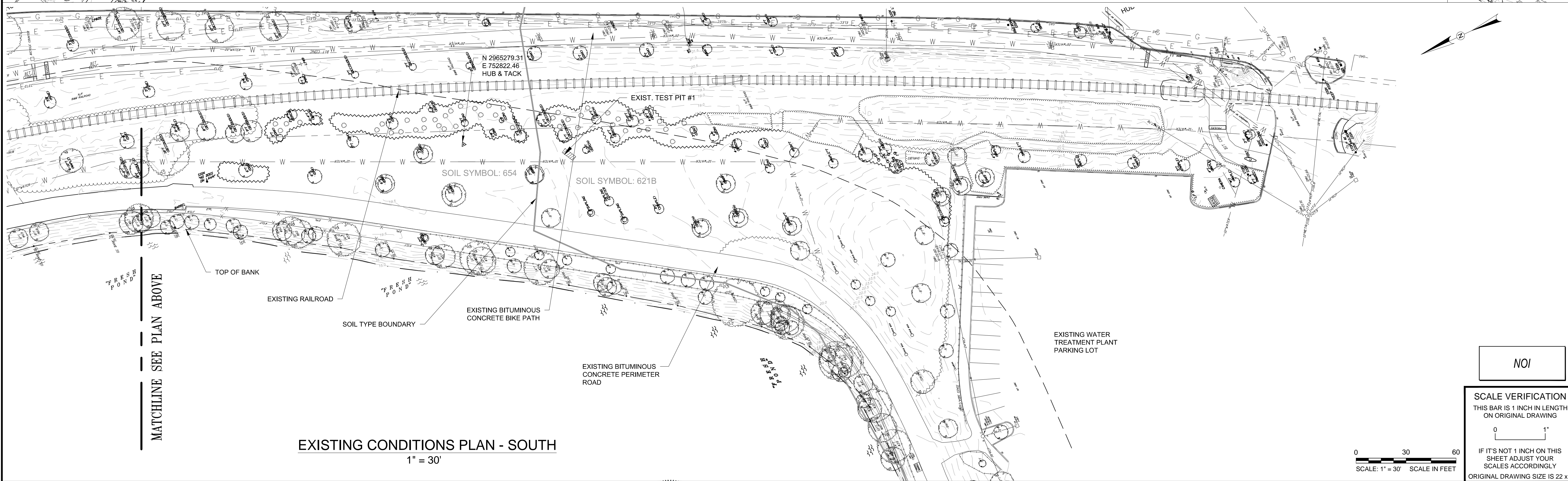


Client	CITY OF CAMBRIDGE, MASSACHUSETTS
Project	FRESH POND DRAINAGE IMPROVEMENTS COMMUNITY GARDENS
Drawing	GENERAL NOTES, LEGEND AND ABBREVIATIONS

Sheet	C-1
File No.	



EXISTING CONDITIONS PLAN - NORTH
1" = 30'



EXISTING CONDITIONS PLAN - SOUTH
1" = 30'

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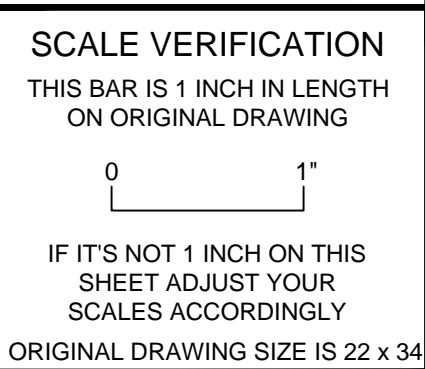
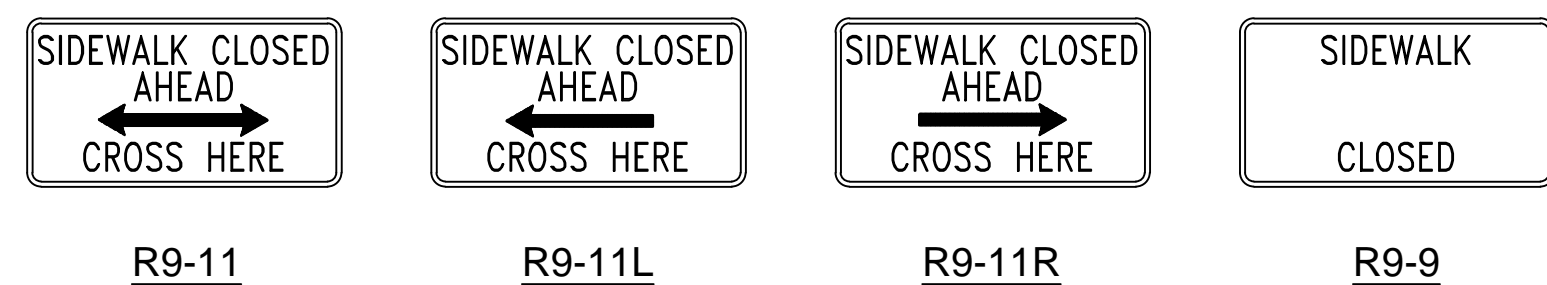


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Project	FRESH POND DRAINAGE IMPROVEMENTS COMMUNITY GARDENS
Drawing	EXISTING CONDITIONS PLAN

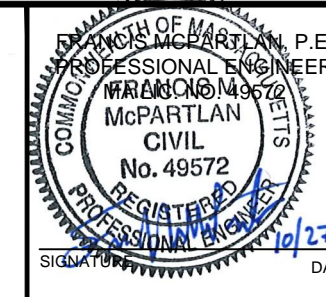
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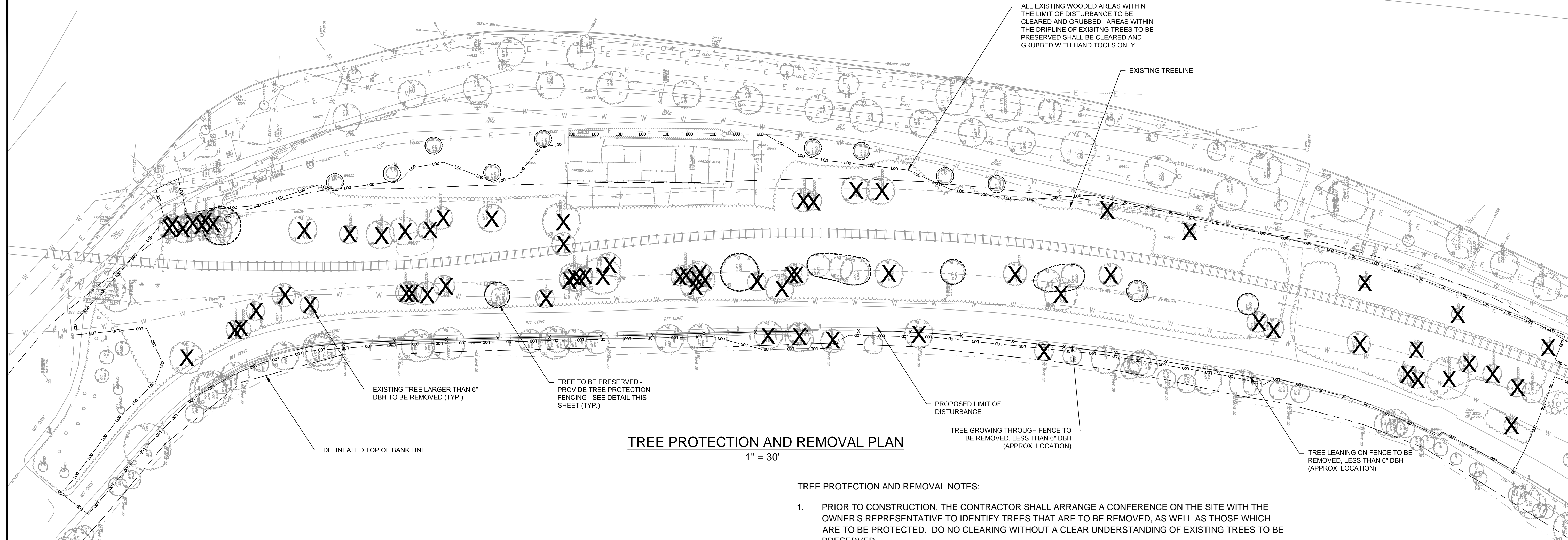
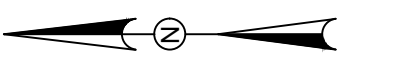


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Client	CITY OF CAMBRIDGE, MASSACHUSETTS
Project	FRESH POND DRAINAGE IMPROVEMENTS COMMUNITY GARDENS
Drawing	PEDESTRIAN MANAGEMENT & CONSTRUCTION ACCESS PLAN

Sheet	C-3
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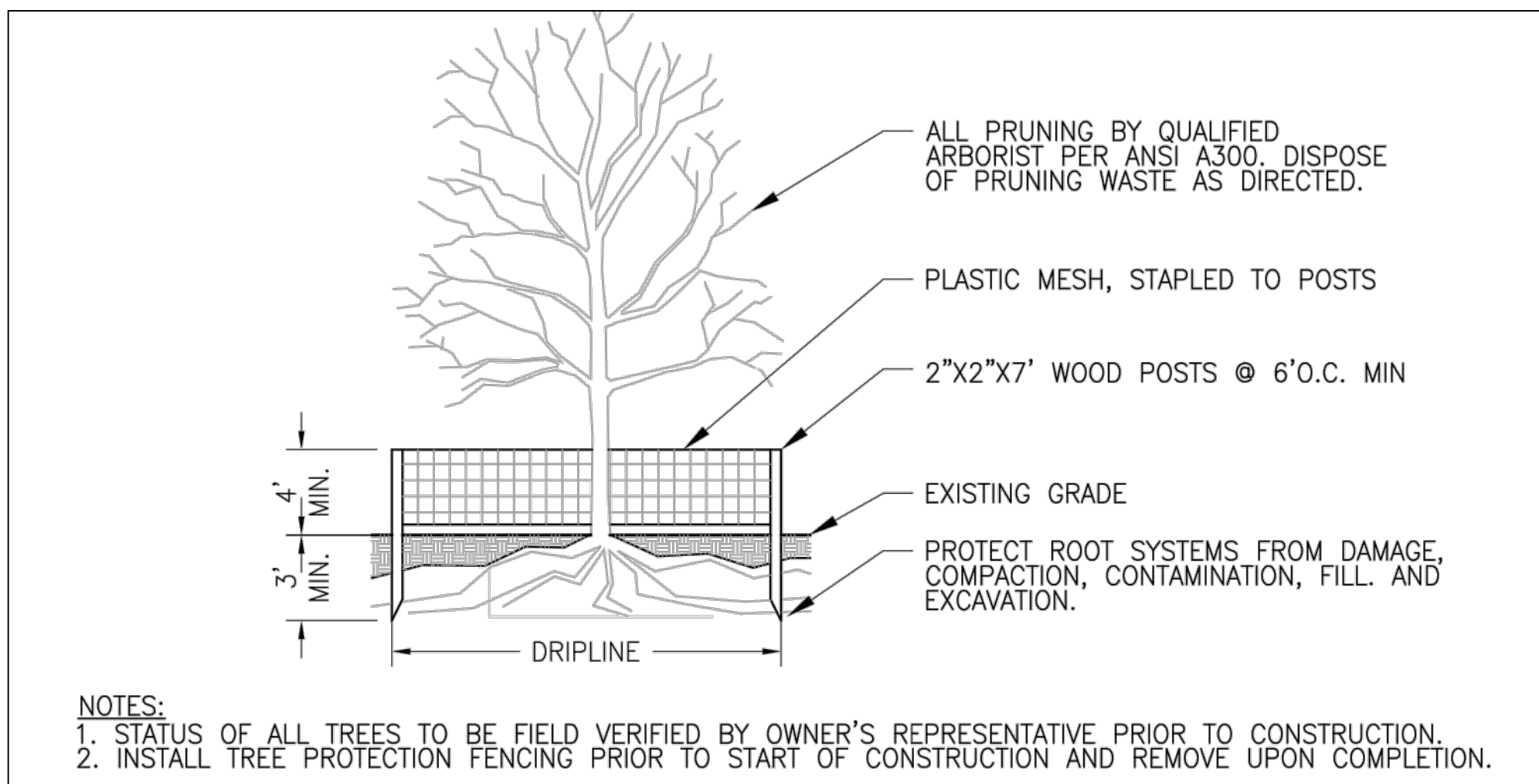


TREE PROTECTION AND REMOVAL PLAN

1" = 30'

TREE PROTECTION AND REMOVAL NOTES:

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL ARRANGE A CONFERENCE ON THE SITE WITH THE OWNER'S REPRESENTATIVE TO IDENTIFY TREES THAT ARE TO BE REMOVED, AS WELL AS THOSE WHICH ARE TO BE PROTECTED. DO NO CLEARING WITHOUT A CLEAR UNDERSTANDING OF EXISTING TREES TO BE PRESERVED.
2. TREE PROTECTION AND REMOVAL PLAN ONLY SHOWS TREES WITH DIAMETER AT BREAST HEIGHT (DBH) OF 6" AND GREATER. THERE ARE A SUBSTANTIAL NUMBER OF TREES THAT ARE NOT SHOWN WITH A DBH LESS THAN 6". ALL ALL EXISTING WOODED AREAS WITHIN THE LIMIT OF DISTURBANCE TO BE CLEARED AND GRUBBED. AREAS WITHIN THE DRIPLINE OF EXISTING TREES TO BE PRESERVED SHALL BE CLEARED AND GRUBBED WITH HAND TOOLS ONLY.
3. LOCATIONS OF TREE PROTECTION FENCING ARE APPROXIMATE. ACTUAL LOCATIONS SHALL BE DETERMINED FROM TREE DRIPLINES AS DETERMINED IN THE FIELD.
4. FOR TREES THAT OCCUR IN GROUPS, PROVIDE TREE PROTECTION FENCE AROUND ENTIRE AREA OF TREE DRIPLINES OF TREE GROUPINGS.
5. INSTALL TREE PROTECTION FENCING PRIOR TO START OF CONSTRUCTION AND REMOVE UPON COMPLETION.
6. ALL WORK PERFORMED WITHIN THE TREE PROTECTION FENCING SHALL BE DONE WITH HAND TOOLS ONLY.
7. CONTRACTOR SHALL PROVIDE SUPPLEMENTAL WATERING AS NEEDED TO PROVIDE AT LEAST 1" OF WATER PER WEEK, APRIL - NOVEMBER.
8. NO PRUNING OR CUTTING OF PROTECTED TREES, INCLUDING FOR CONSTRUCTION ACCESS, SHALL BE DONE WITHOUT PRIOR APPROVAL BY THE OWNER'S REPRESENTATIVE. ANY APPROVED PRUNING MUST BE DONE BY A CERTIFIED ARBORIST.
9. IF IN ORDER TO PERFORM EXCAVATION WORK, IT BECOMES NECESSARY TO CUT ROOTS OF TREES TO BE SAVED, SUCH ROOTS SHALL BE PRUNED CLEANLY IN ACCORDANCE WITH THE SPECIFICATIONS AND UNDER THE SUPERVISION OF A CERTIFIED ARBORIST.



TREE PROTECTION DETAIL
NTS

- NOTES:**
1. STATUS OF ALL TREES TO BE FIELD VERIFIED BY OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
 2. INSTALL TREE PROTECTION FENCING PRIOR TO START OF CONSTRUCTION AND REMOVE UPON COMPLETION.

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SCALE: 1" = 30' SCALE IN FEET

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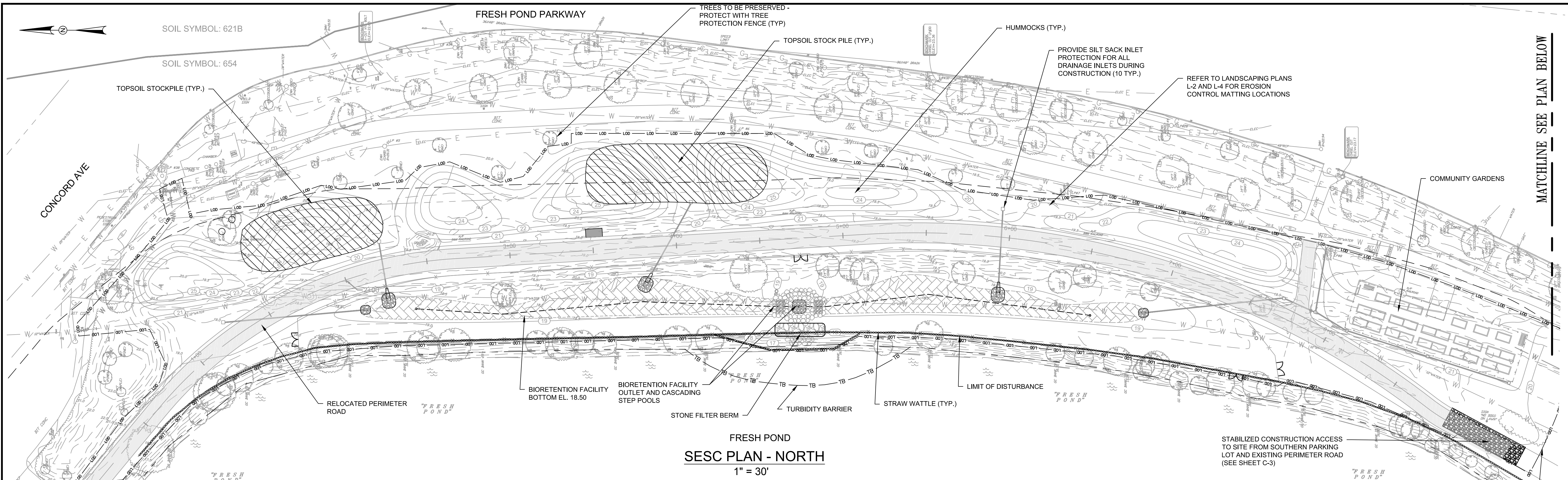
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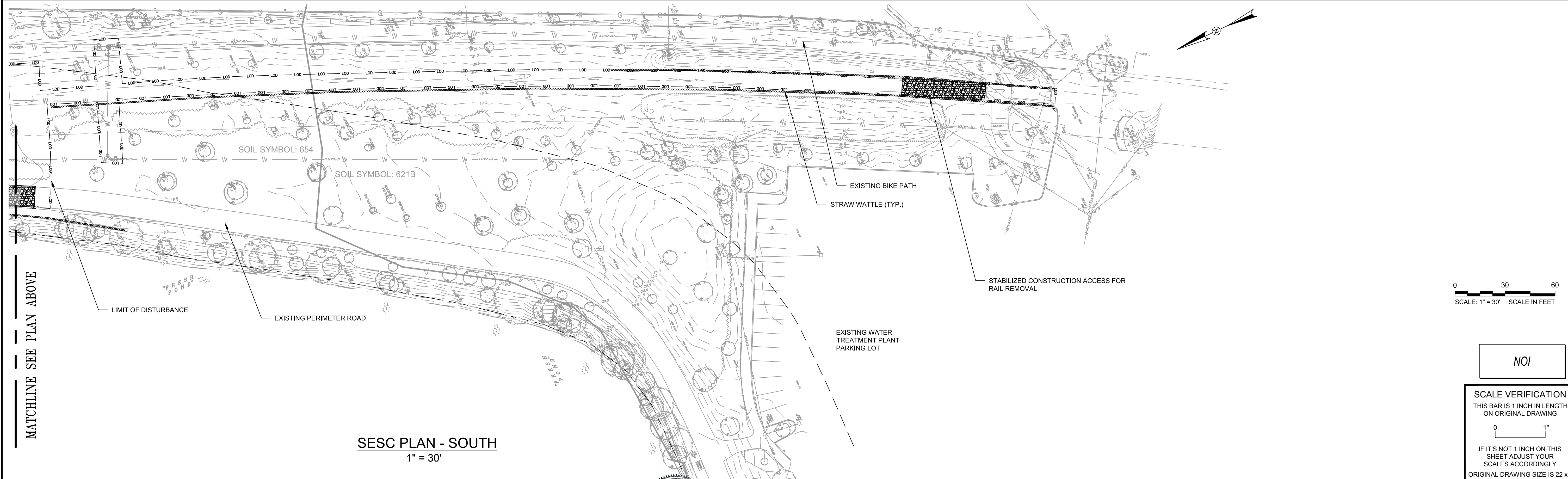
Client	CITY OF CAMBRIDGE, MASSACHUSETTS
Project	FRESH POND DRAINAGE IMPROVEMENTS COMMUNITY GARDENS
Drawing	TREE PROTECTION & REMOVAL PLAN

Sheet	C-4
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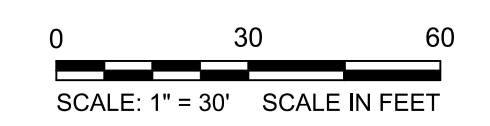
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MATCHLINE SEE PLAN BELOW



MATCHLINE SEE PLAN ABOVE



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0 1"
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Client	CITY OF CAMBRIDGE, MASSACHUSETTS
Project	FRESH POND DRAINAGE IMPROVEMENTS COMMUNITY GARDENS
Drawing	SOIL EROSION & SEDIMENT CONTROL PLAN

Sheet	C-5
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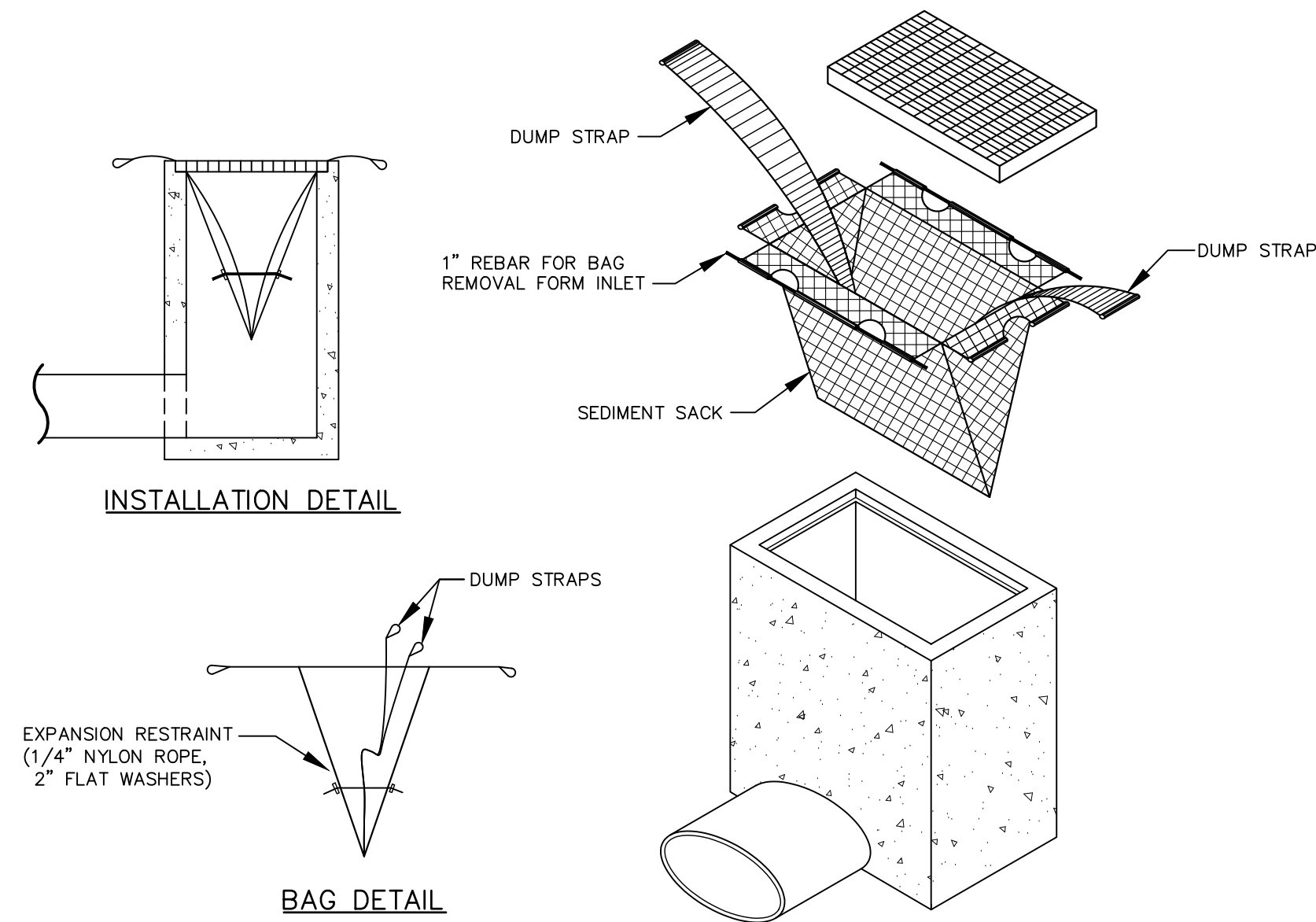
SOIL EROSION AND SEDIMENT CONTROL GENERAL NOTES:

1. ALL DISTURBED AREAS THAT ARE NOT BEING GRADED, NOT UNDER ACTIVE CONSTRUCTION, OR NOT SCHEDULED TO BE PERMANENTLY SEEDED WITHIN 10 WORKING DAYS MUST BE TEMPORARILY STABILIZED AS PER DETAILS AND SPECIFICATIONS IN THE CONTRACT DOCUMENTS.
2. ALL EXPOSED AREAS WHICH ARE TO BE PERMANENTLY VEGETATED, ARE TO BE SEEDED AND MULCHED OR PLANTED WITHIN 10 DAYS OF FINAL GRADING.
3. EXISTING WEEDY AND POORLY-VEGETATED AREAS WITH LESS THAN 80 PERCENT PERENNIAL GRASS COVER MUST RECEIVE PERMANENT STABILIZATION.
4. ALL BAGS NEED TO BE SAVED FOR LIME, FERTILIZER, SEED, AND LIQUID MULCH BINDER (IF MULCH ANCHORING METHOD). SUCH PROOFS NEED TO BE SUBMITTED TO THE ENGINEER/OWNER FOR VERIFICATION OF MATERIALS AND QUANTITIES USED FOR ALL SEEDINGS.

SEQUENCE OF CONSTRUCTION

NOTE: ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED TO ONLY THOSE AREAS DESCRIBED IN EACH STAGE.

1. A preconstruction meeting shall be held at the site at least 7 days prior to the beginning of any work in any phase.
2. At least 7 days before starting any earth disturbance activities, the contractor shall invite all personnel involved in those activities, the Owner, the Engineer, and all appropriate officials to an onsite preconstruction meeting. Review the site plan and layout and clear up any questions regarding the approved plan. Obtain approvals for the plan changes from the appropriate inspection or plan review agency. Discuss the stages of construction for which notification to the construction review agency is needed.
3. Install silt fence, turbidity barrier, stabilized construction entrances, pedestrian management infrastructure, and temporary vegetation establishment fence.
4. Install tree protection fencing and perform tree removal. Clear and grub location of proposed bioswale, pathways, hummocks and community gardens. Strip topsoil and place topsoil in designated topsoil stockpile location and surround with fiber rolls. Seed and mulch with temporary seed mix specification. Stockpile heights shall not exceed 35 feet in height with slopes 3:1 or flatter.
5. Perform demolition activities, including demolition of existing perimeter road, demolition of existing community gardens, selective demolition of existing fences, etc.
6. Perform rough site grading, including rough grading of hummock areas, new perimeter road, bioretention and community gardens.
7. Install piping, yard inlets, outlet structures and scour holes. Modify existing inlets and manholes as required.
8. Excavate bioretention facility to final subgrades. Remove excess fill from site as required. Install underdrains and place bioretention media according to the directions specified.
9. Install community gardens and associated improvements.
10. Install bituminous concrete paving, stone dust shoulder, and Stalok surfacing for new perimeter road, paths and community garden area. Modify/install new fence and site amenities as shown on the drawings and as specified.
11. Once construction activities are completed return topsoil to remaining disturbed areas. Install plantings, seed mixes, and erosion control matting.
12. A site inspection shall be performed by the Engineer prior to removing any perimeter controls.



INLET PROTECTION - SILT SACK DETAIL (TYP)
NTS

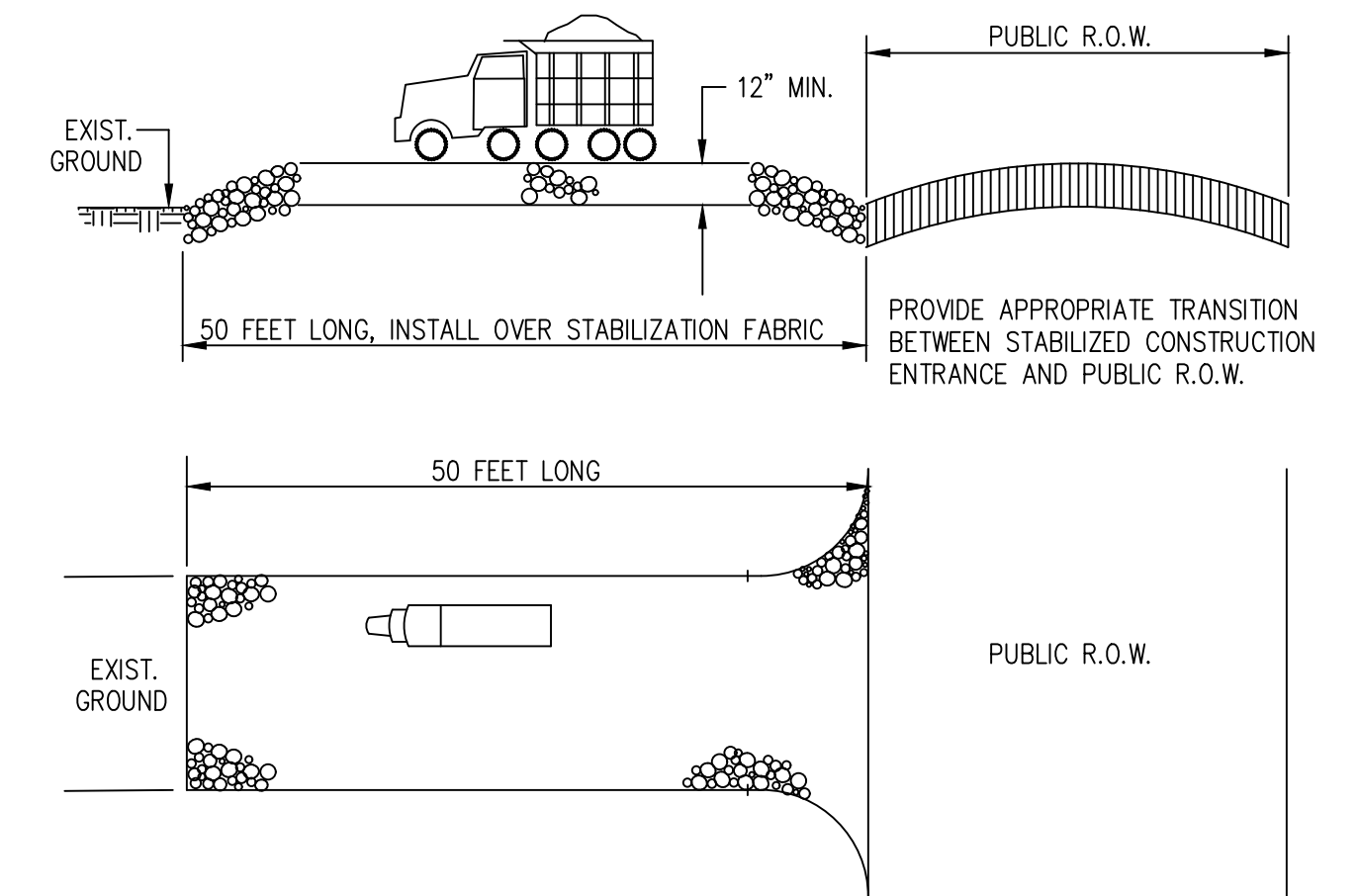
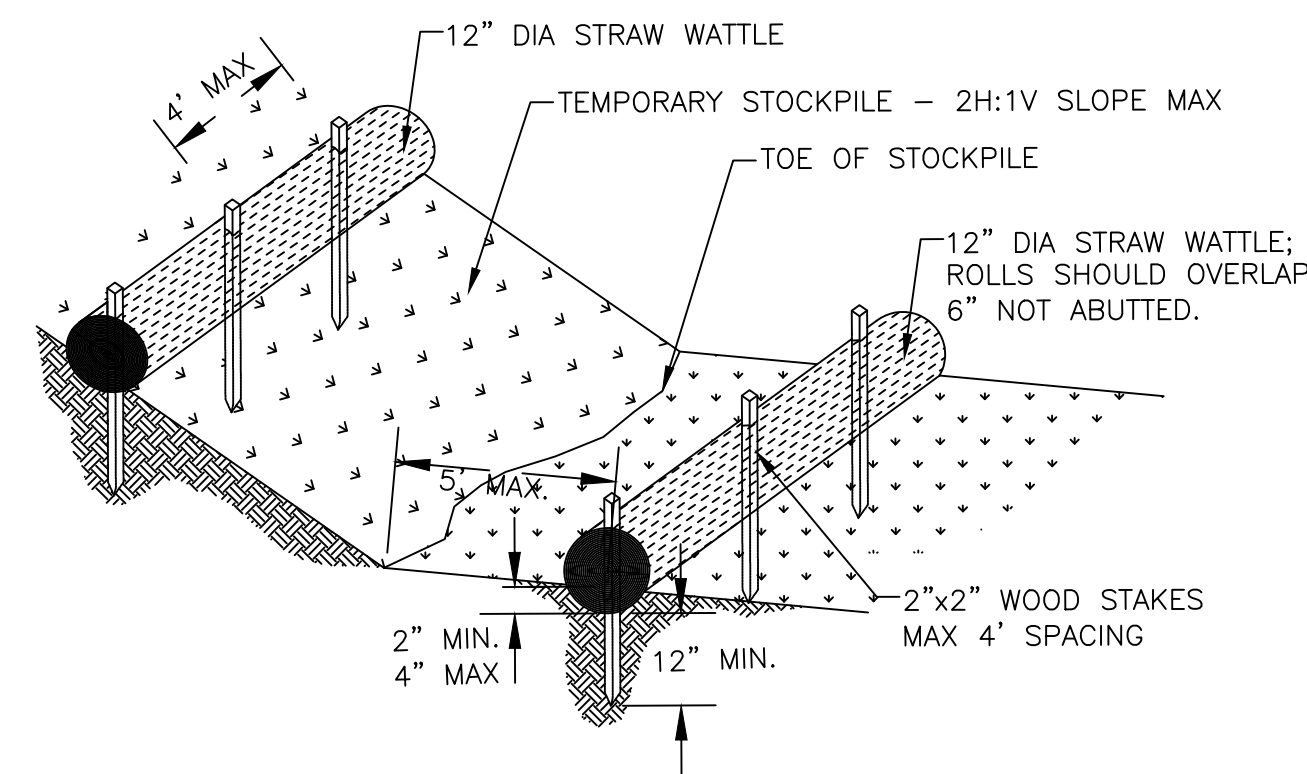


TABLE 29-1: LENGTHS OF CONSTRUCTION EXITS ON SLOPING ROADBEDS

PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED	
	COARSE GRAINED SOILS	FINE GRAINED SOILS
0 TO 2%	50 FT	100 FT
2 TO 5%	100 FT	200 FT
>5%	ENTIRE SURFACE STABILIZED WITH FABC BASE COURSE	

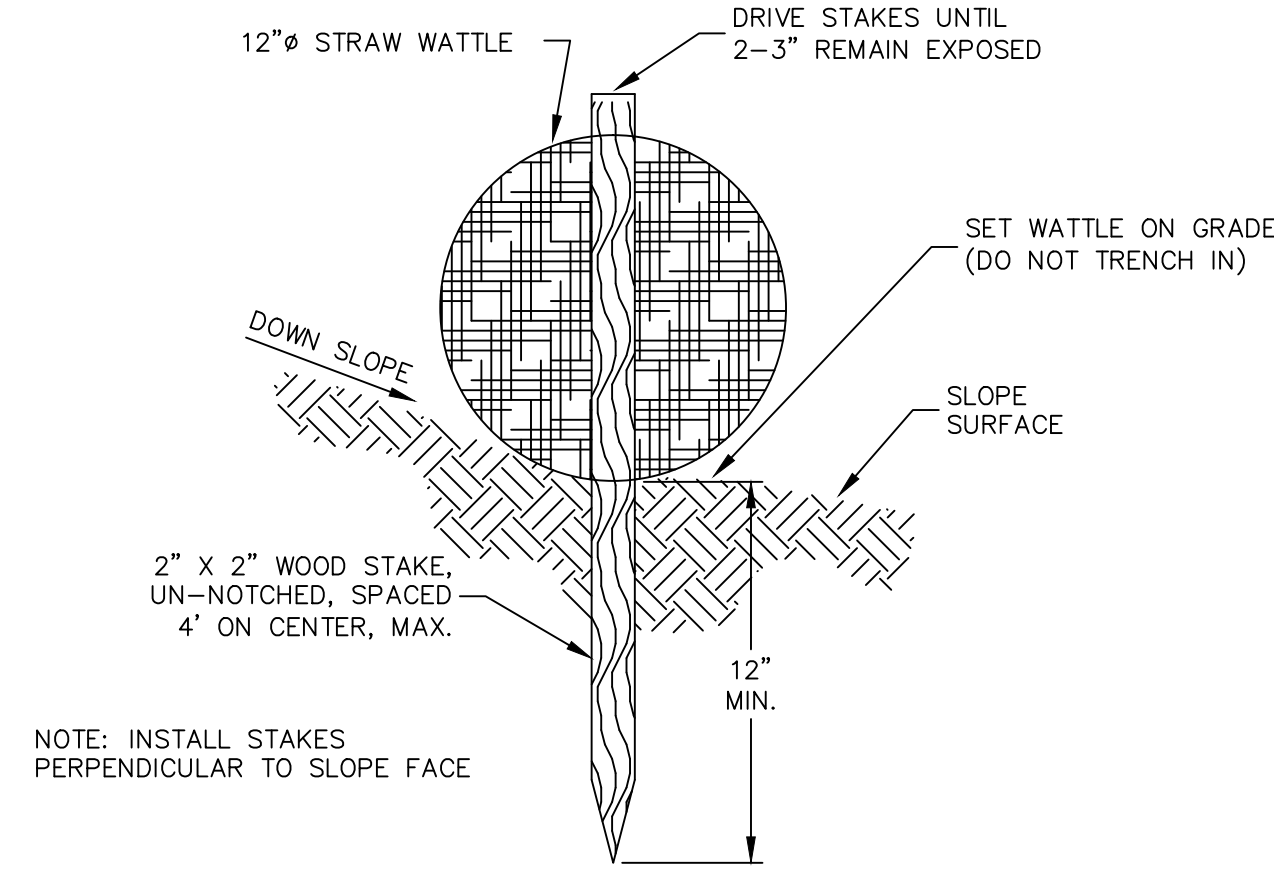
1. As prescribed by local ordinance or other governing authority.

STABILIZED CONSTRUCTION ENTRANCE DETAIL
NTS

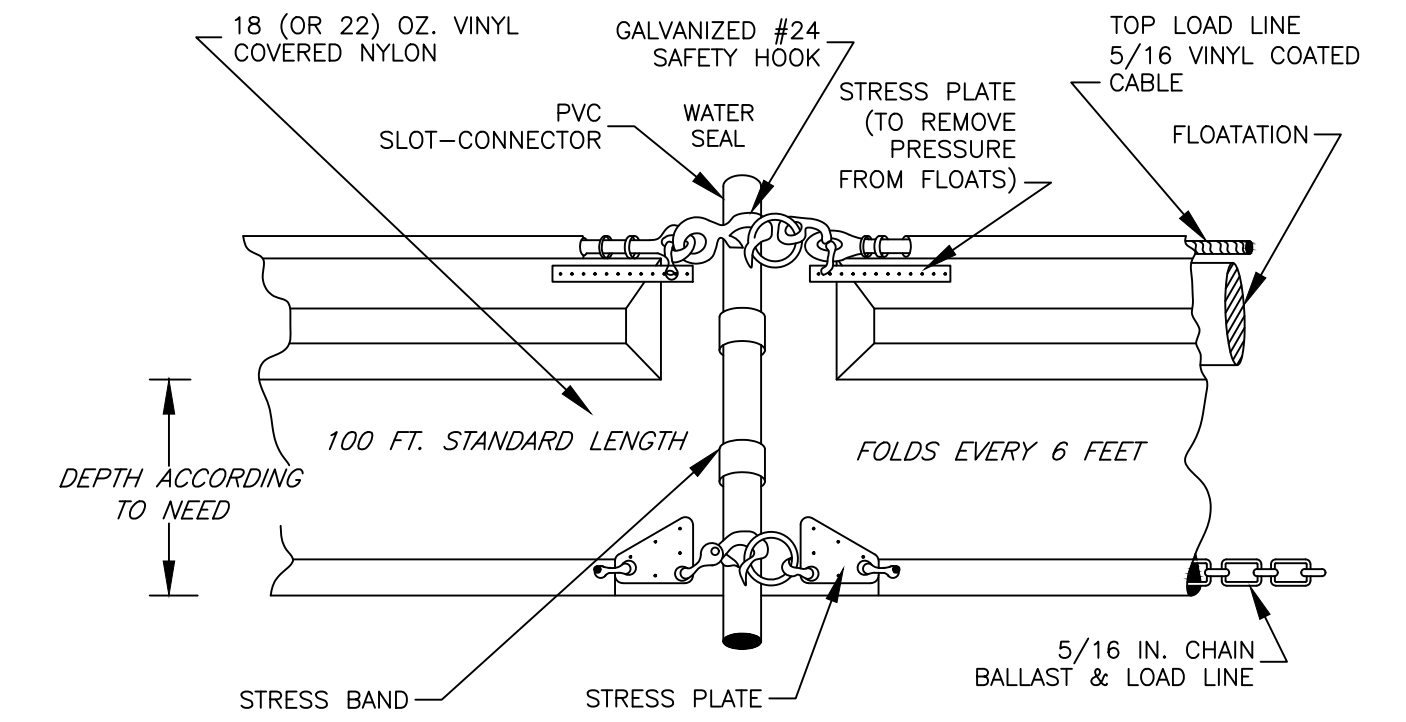


- NOTES:
1. SECURELY COVER STOCKPILE NIGHTLY WITH TARP.
 2. WATTLE SPACING: 10' MIN. (2H:1V SLOPES), 20' MAX. (3H:1V SLOPES AND FLATTER)
 3. INSPECTION SCHEDULE SHALL COMPLY WITH THE 2008 EPA CONSTRUCTION GENERAL PERMIT
 4. MAINTENANCE SHALL OCCUR WHEN NECESSARY; STRAW WATTLES SHALL BE REPLACED EVERY 6 MONTHS AND STAKES SHALL BE INSPECTED TO ENSURE STRUCTURAL INTEGRITY. STRAW WATTLES SHALL BE INSPECTED WEEKLY AND ALL MAINTENANCE ISSUES SHALL BE CORRECT AT THAT TIME.
 5. TEMPORARY STOCKPILES ARE STOCKPILES THAT WILL BE USED WITHIN 14 DAYS FOR BEING PLACED. IF A STOCKPILE IS BEING LEFT UNDISTURBED FOR LONGER THAN 14 DAYS THEN PERMANENT STABILIZATION WILL BE REQUIRED

TEMPORARY STOCKPILE DETAIL (TYP.)
NTS



STRAW WATTLE DETAIL (TYP.)
NTS



TURBIDITY CURTAIN DETAILS (TYP. - TYPE II)
NTS

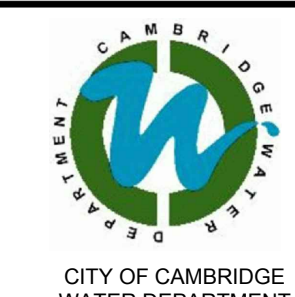
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SCALE VERIFICATION
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 IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY
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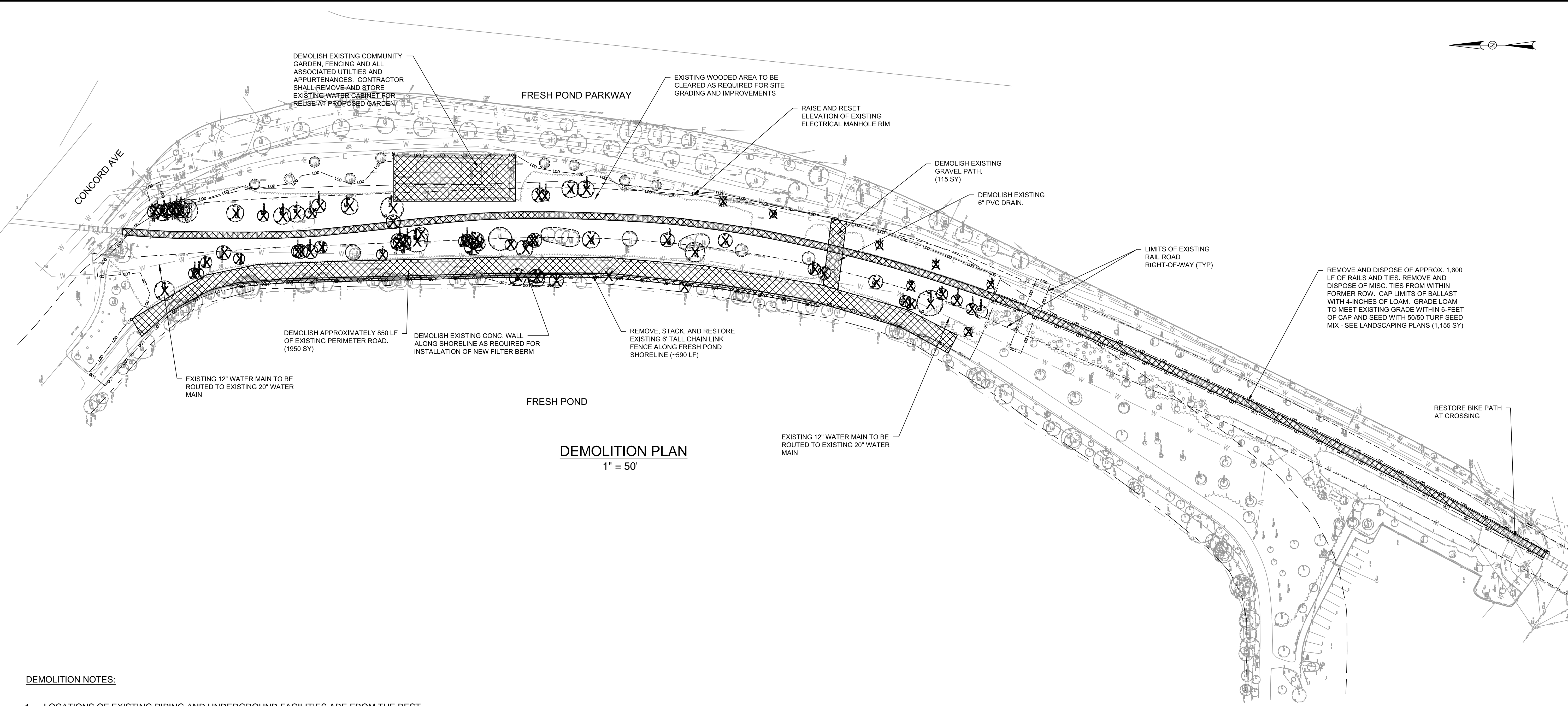
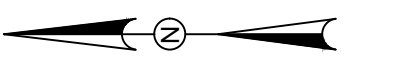


Scale	AS NOTED		
Date	OCTOBER 2016		
Job No.	20150056.005A		
Designed by	BJF	2	NOI Submission 10/27/16
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Checked by	FM	No.	Description Date
Approved by	FM		REVISIONS



Client	CITY OF CAMBRIDGE, MASSACHUSETTS
Project	FRESH POND DRAINAGE IMPROVEMENTS COMMUNITY GARDENS
Drawing	SOIL EROSION & SEDIMENT CONTROL NOTES AND DETAILS

Sheet	C-6
File No.	

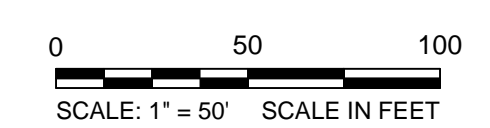


DEMOLITION PLAN
1" = 50'

DEMOLITION NOTES:

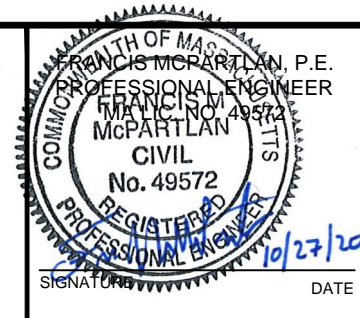
1. LOCATIONS OF EXISTING PIPING AND UNDERGROUND FACILITIES ARE FROM THE BEST INFORMATION AVAILABLE. EXACT LOCATIONS AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING BELOW GRADE UTILITIES AND PIPING AT NO EXTRA COST TO OWNER. ELEVATION AND DIRECTION OF NEW PIPING ARE SHOWN FOR THE PURPOSE OF INDICATING THE BASIC PARAMETERS USED DURING DESIGN. THE CONTRACTOR SHALL PERFORM TEST PITS AT ALL POINTS OF CONNECTION TO EXISTING PIPING/UTILITIES AND AT ALL PIPING/UTILITY CROSSINGS, AND AS REQUIRED IN ORDER TO DETERMINE THE EXACT LOCATION OF EXISTING PIPES. CONTRACTOR SHALL ALSO MAKE ALL REQUIRED FIELD MEASUREMENTS TO VERIFY EXISTING AND CONTRACT INTERFACE DIMENSIONS, LOCATIONS, AND OTHER CONDITIONS.
2. EROSION CONTROLS TO BE INSTALLED AND INSPECTED BY OWNER PRIOR TO ANY DEMOLITION.
3. SHADING INDICATES THE APPROXIMATE LIMITS OF THE REMOVAL OF EXISTING STRUCTURES AND FACILITIES. THE EXACT LIMITS OF REMOVAL SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD AS NEEDED TO ACCOMMODATE THE PROPOSED IMPROVEMENTS.
4. DEMOLITION WORK SHALL BE COORDINATED WITH OWNER IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF SPECIFICATION SECTION 02051.
5. ALL EXCESS SOIL GENERATED WITHIN THE LIMITS OF THE RAIL ROAD RIGHT-OF-WAY SHALL BE REUSED ONLY WITHIN THE RAIL ROAD RIGHT-OF-WAY. STOCKPILING AND/OR TRANSPORT OF THIS SOIL OUTSIDE OF THE RAIL ROAD RIGHT-OF-WAY IS PROHIBITED.

NOI



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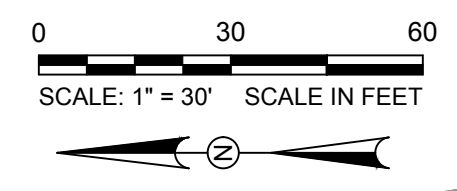


Scale	AS NOTED		
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Job No.	20150056.005A		
Designed by	BJF	2	NOI Submission 10/27/16
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Client	CITY OF CAMBRIDGE, MASSACHUSETTS
Project	FRESH POND DRAINAGE IMPROVEMENTS COMMUNITY GARDENS
Drawing	DEMOLITION PLAN

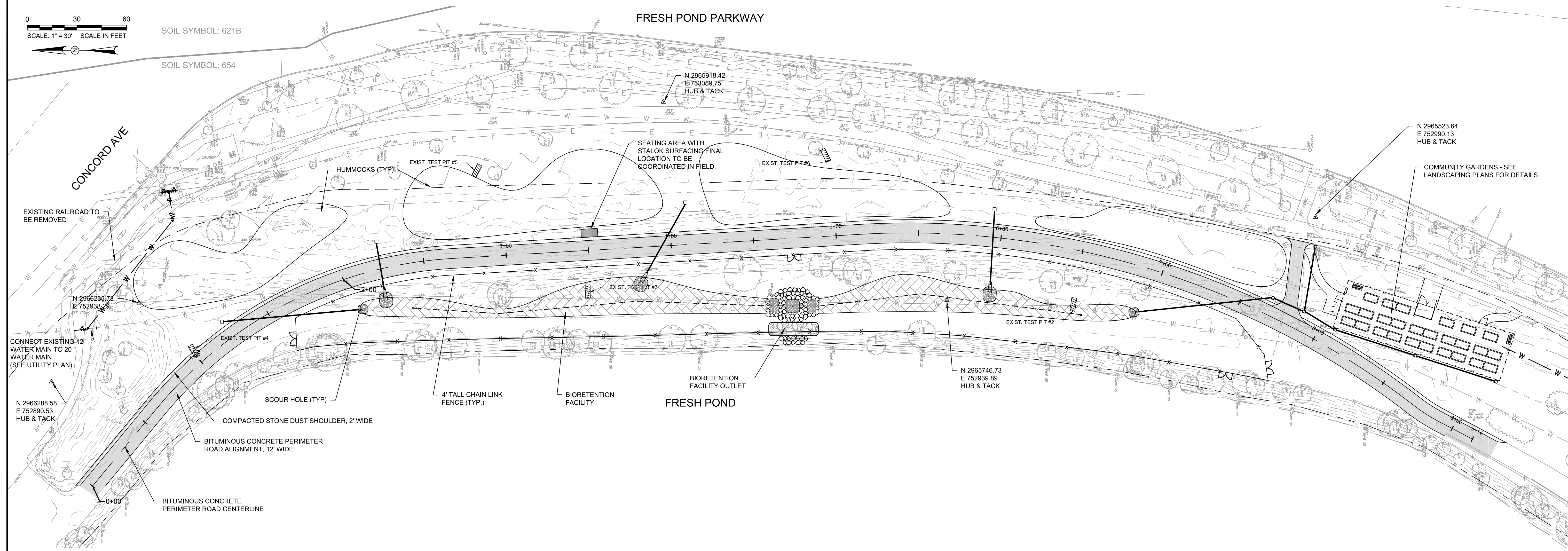
Sheet	C-7
File No.	



SOIL SYMBOL: 621B
SOIL SYMBOL: 654

FRESH POND PARKWAY

CONCORD AVE



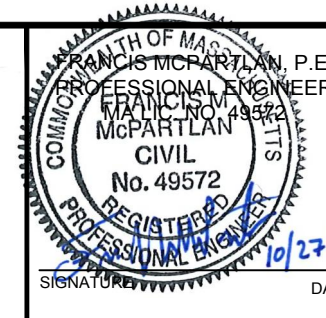
LAYOUT PLAN
1" = 30'

NOI

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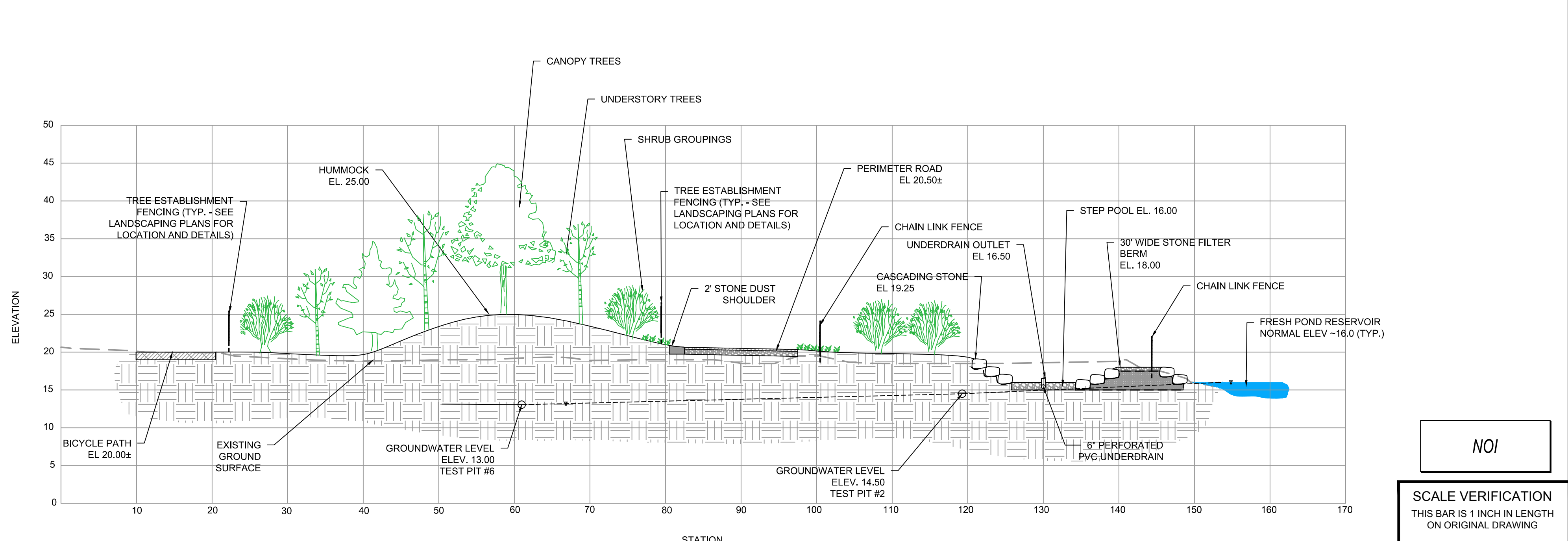
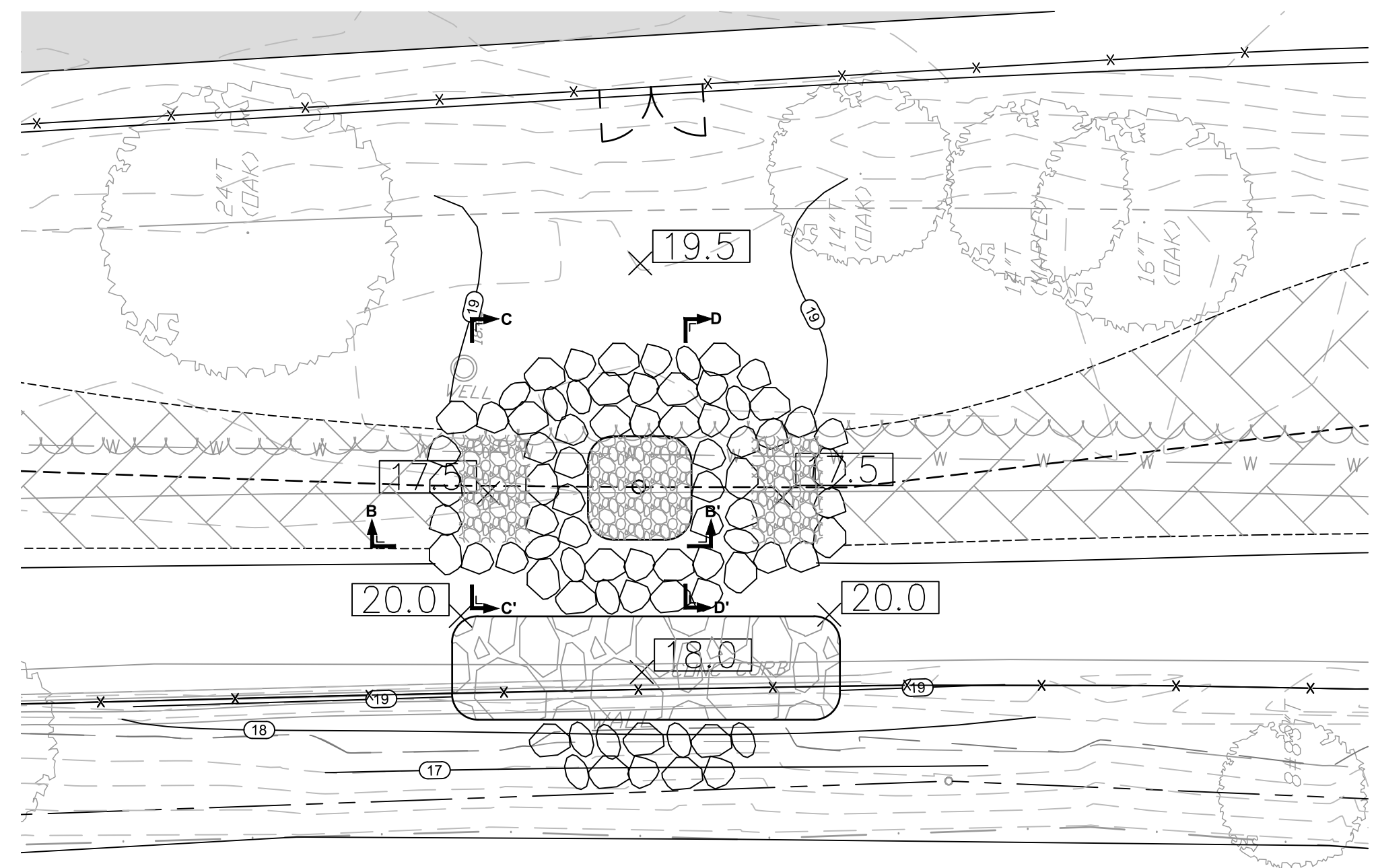
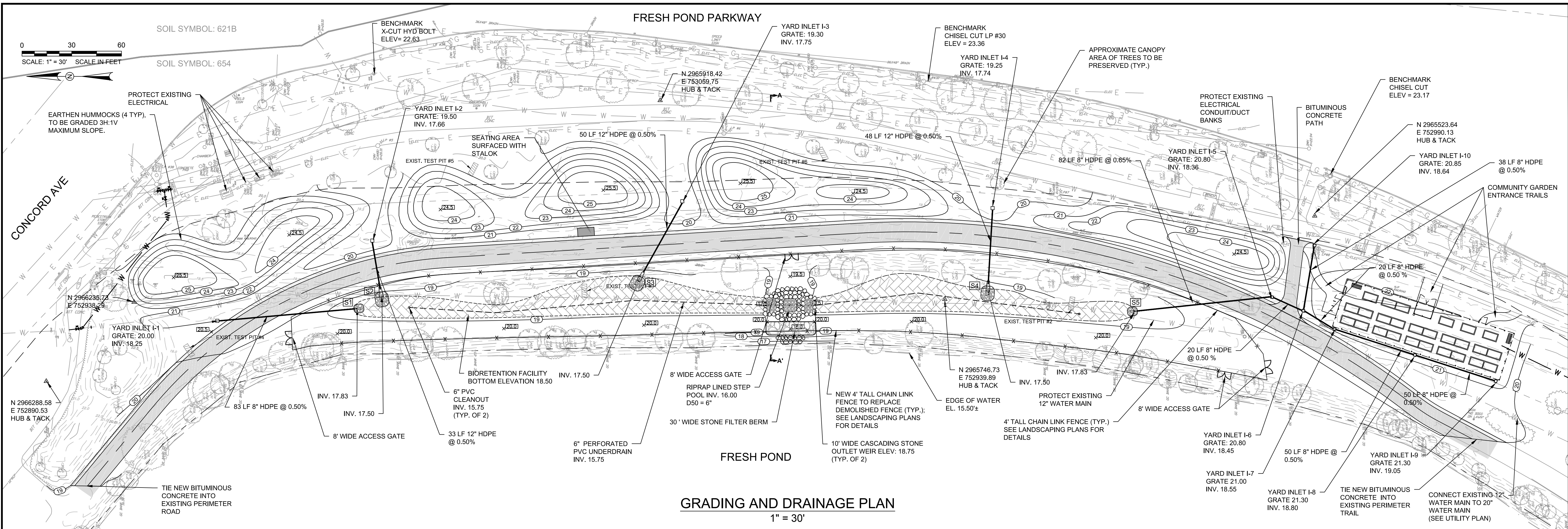


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Client	CITY OF CAMBRIDGE, MASSACHUSETTS
Project	FRESH POND DRAINAGE IMPROVEMENTS COMMUNITY GARDENS
Drawing	LAYOUT PLAN

Sheet	C-8
File No.	



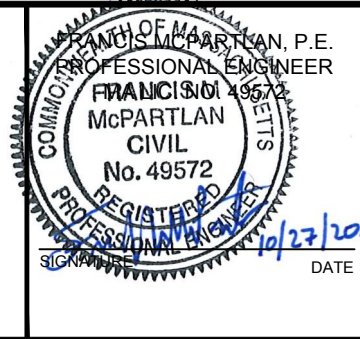
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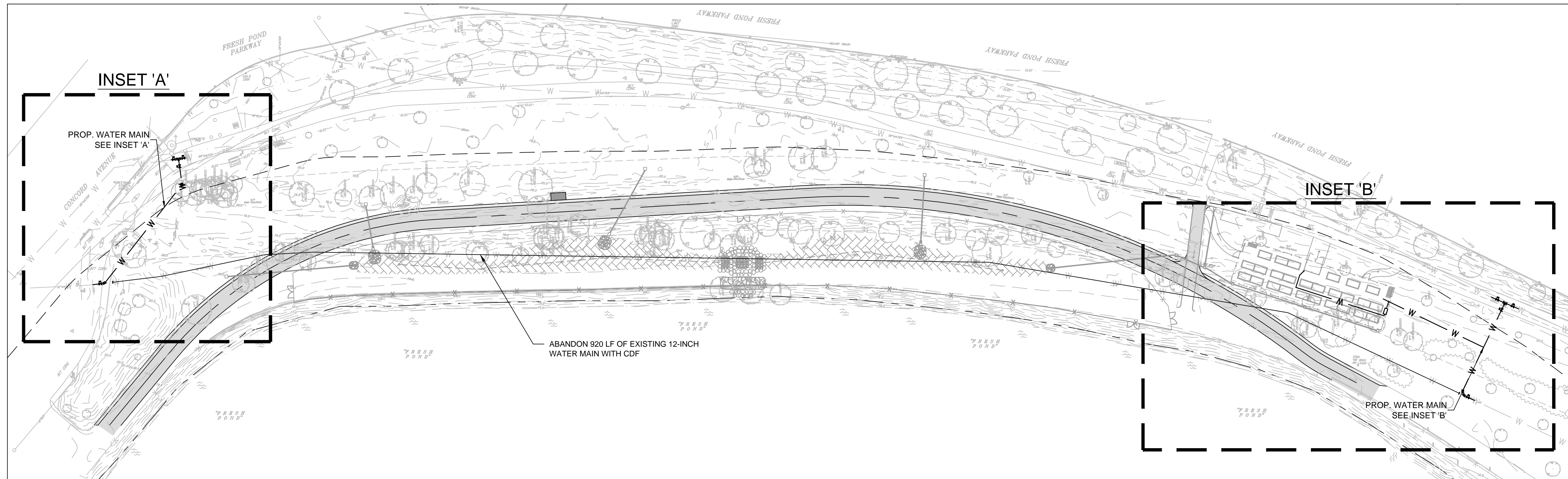
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Job No.	20150056.005A		
Designed by	BJF	2	NOI Submission 10/27/16
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Client	CITY OF CAMBRIDGE, MASSACHUSETTS
Project	FRESH POND DRAINAGE IMPROVEMENTS COMMUNITY GARDENS
Drawing	GRADING AND DRAINAGE PLAN AND PROFILE

Sheet	C-9
File No.	

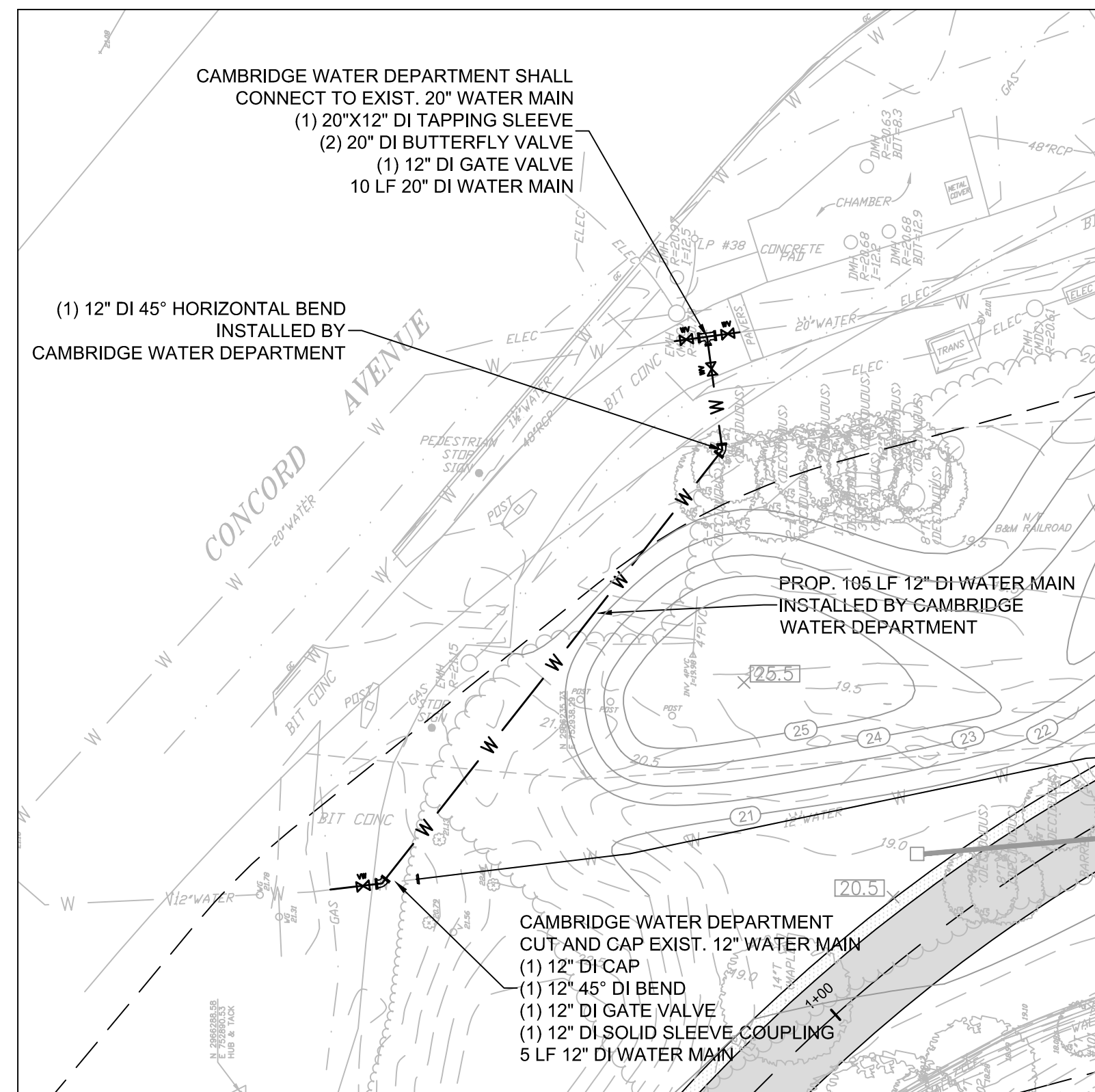
0 40 80
SCALE: 1" = 40' SCALE IN FEET



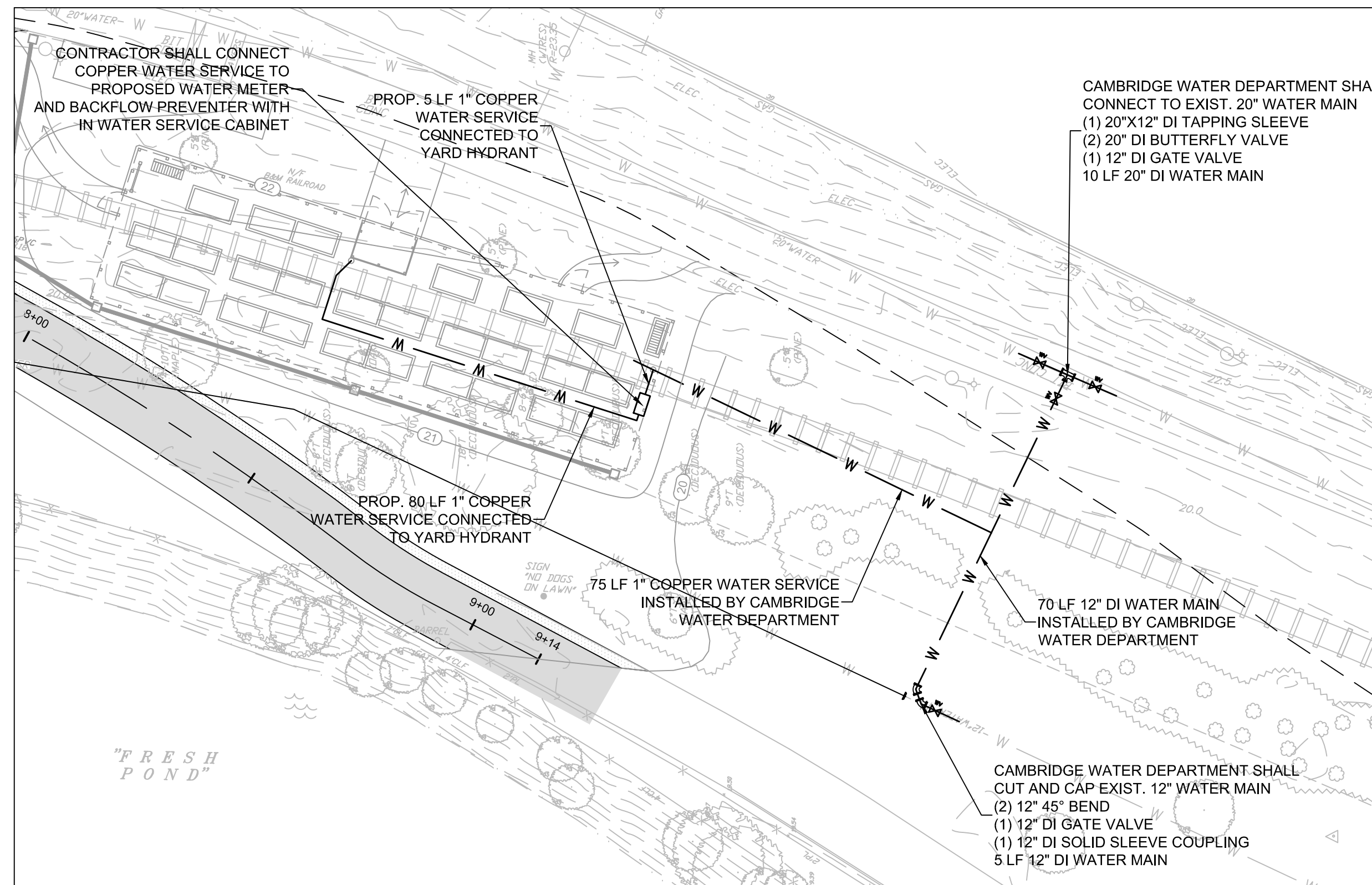
PLAN VIEW
1" = 40'

NOTES:

- CAMBRIDGE WATER DEPARTMENT SHALL CONSTRUCT ALL WATER MAIN AND WATER SERVICE EXTERNAL TO THE COMMUNITY GARDEN PRIOR TO CONTRACTOR STARTING CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE WITH CAMBRIDGE WATER DEPARTMENT TO INSTALL, DISINFECT, AND PRESSURE TEST THE PROPOSED METER, BACK FLOW PREVENTER, AND YARD HYDRANT WATER SERVICES.
- UNLESS OTHERWISE NOTED, WATER MAINS SHALL BE INSTALLED WITH MINIMUM 5.0' COVER. WHERE PROVIDED, WATER MAIN ELEVATIONS REFER TO TOP OF WATER MAIN.
- CONTRACTOR TO PROVIDE 1" CHLORINATION TAP AT ALL LOCATIONS WHERE PROPOSED WATER MAIN CONNECTS TO EXISTING WATER MAIN.
- WATER GATES, BOXES, AND HYDRANTS SHALL BE INSTALLED TO EXISTING GRADE AND ADJUSTED TO FINAL GRADE ELEVATIONS DURING RESTORATION WORK.
- ALL NEW AND RELOCATED HYDRANTS TO BE FLOW TESTED IN COORDINATION WITH THE CWD AND PAINTED PER THE CWD SPECIFICATIONS. CONTRACTOR TO COORDINATE WITH CWD FOR PAINT SPECIFICATIONS/COLOR.
- CONTRACTOR TO CONDUCT TEST PITS AT LOCATIONS SHOWN ON THE CONTRACT DOCUMENTS OR AS OTHERWISE REQUIRED BY THE ENGINEER. WHERE CONTRACTOR IS REQUIRED TO VERIFY CLEARANCE BETWEEN UTILITIES, AND IF REQUIRED CLEARANCE CANNOT BE OBTAINED, CONTRACTOR SHALL COORDINATE RELOCATION WITH UTILITY COMPANIES.



INSET 'A'
1" = 20'



INSET 'B'
1" = 20'

NOI

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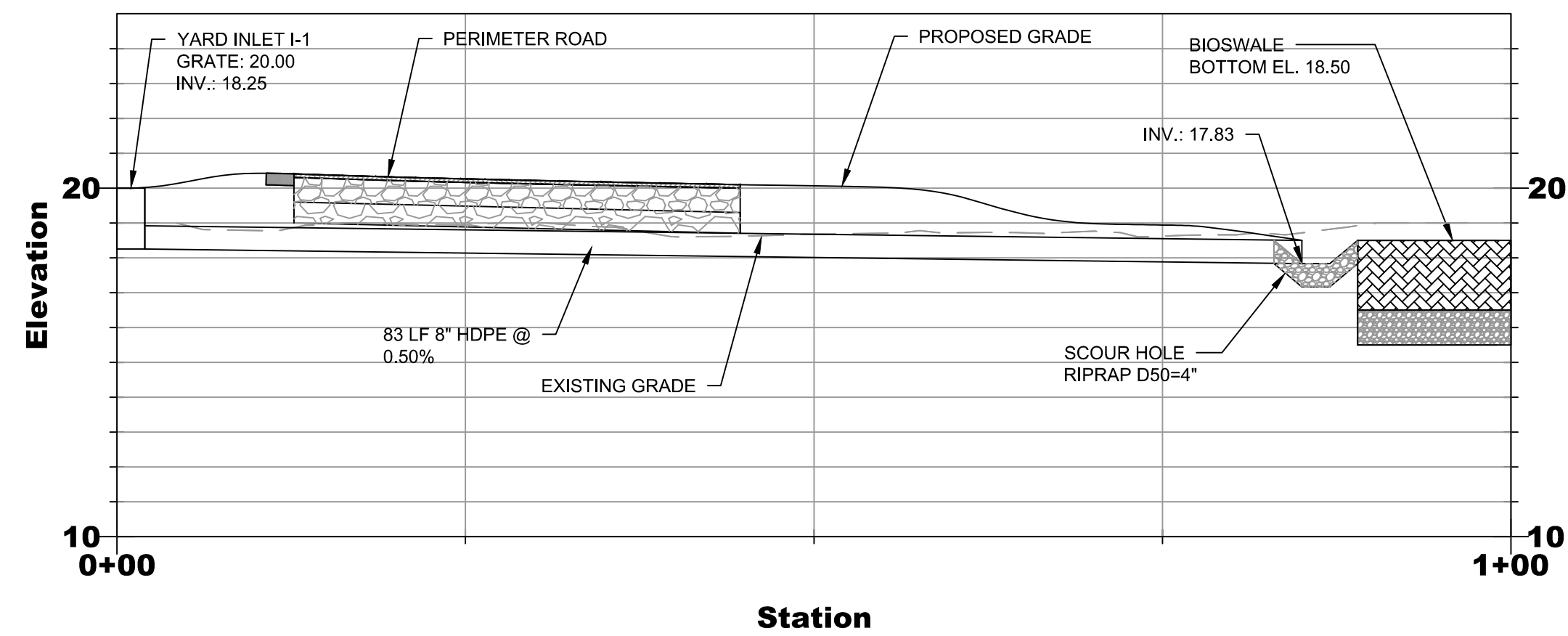


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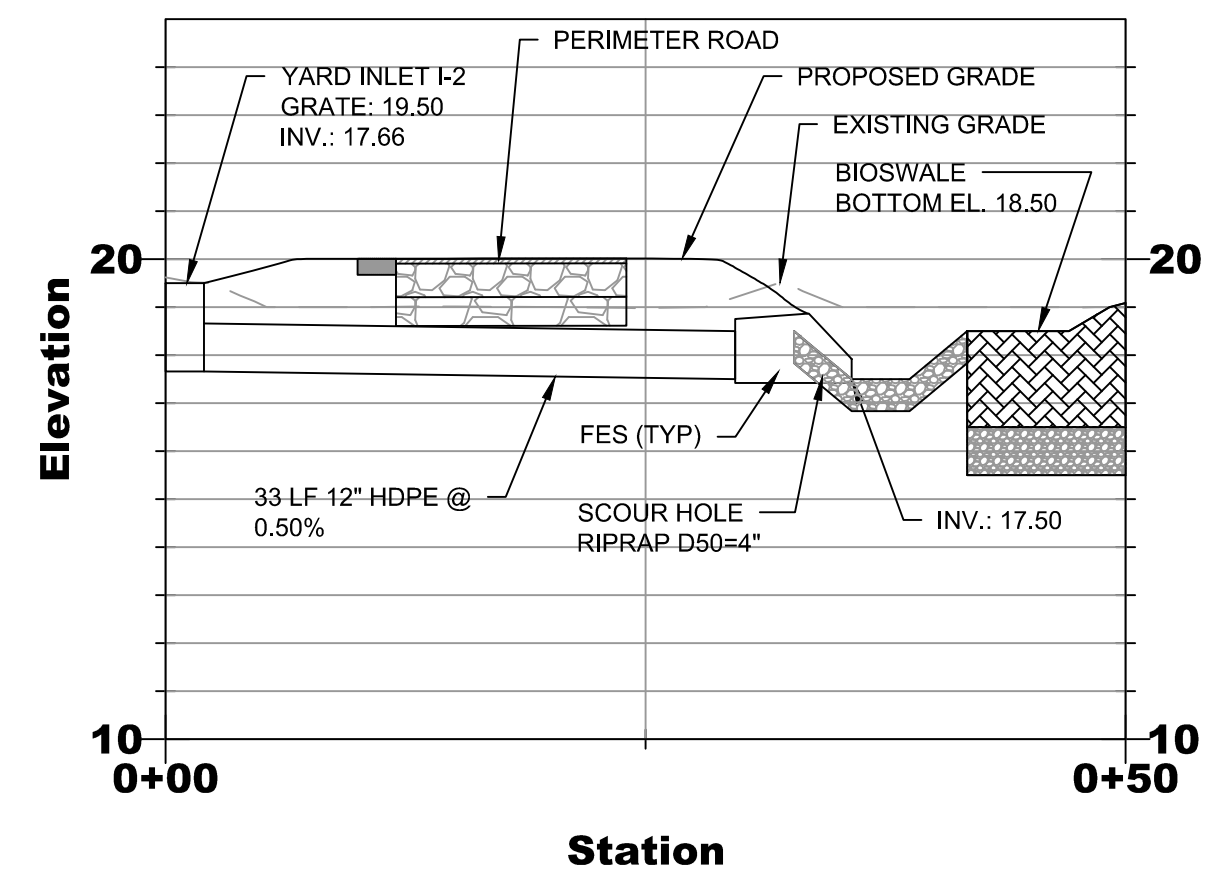


Client	CITY OF CAMBRIDGE, MASSACHUSETTS
Project	FRESH POND DRAINAGE IMPROVEMENTS COMMUNITY GARDENS
Drawing	UTILITY PLAN

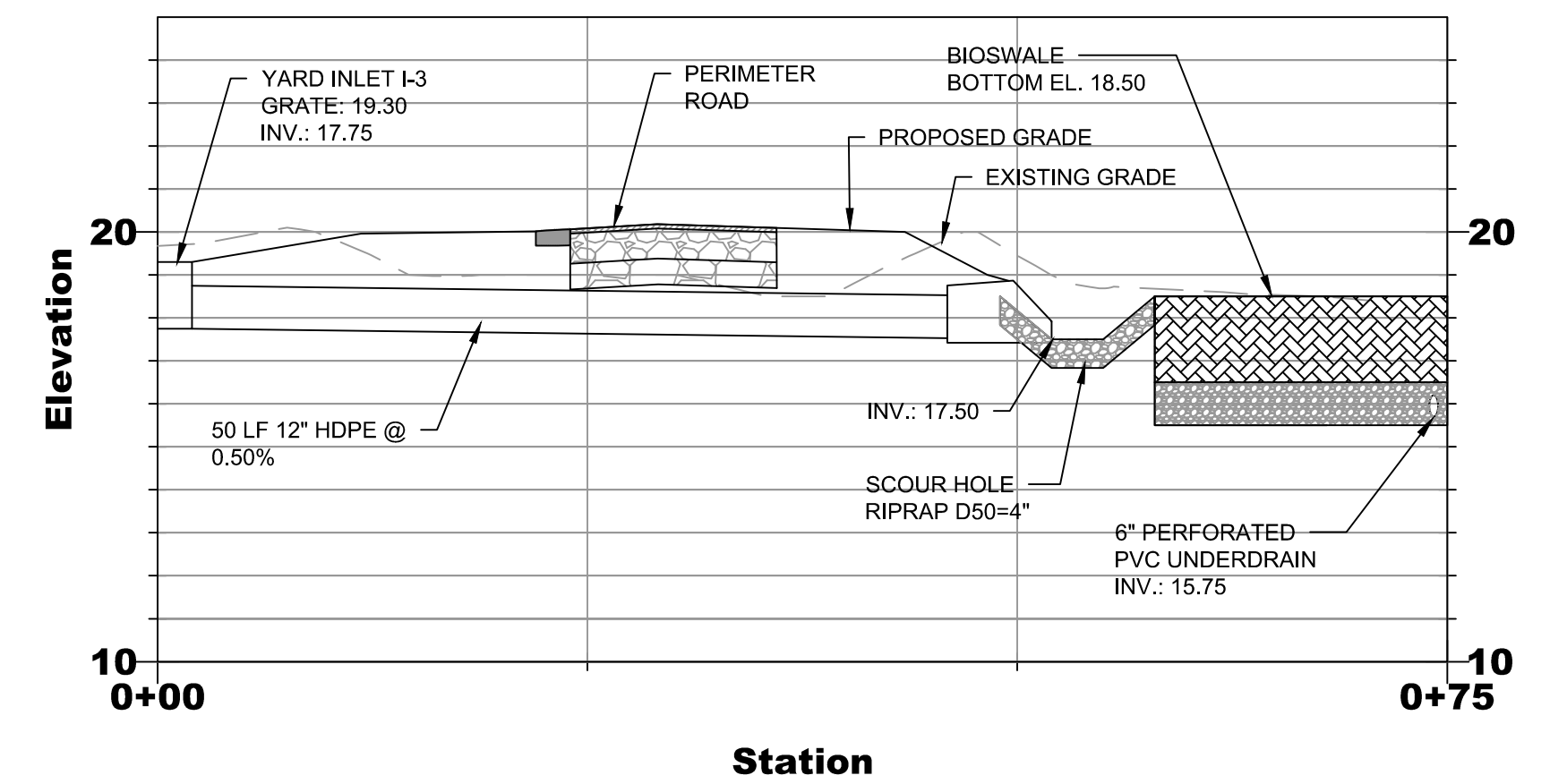
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File No.	



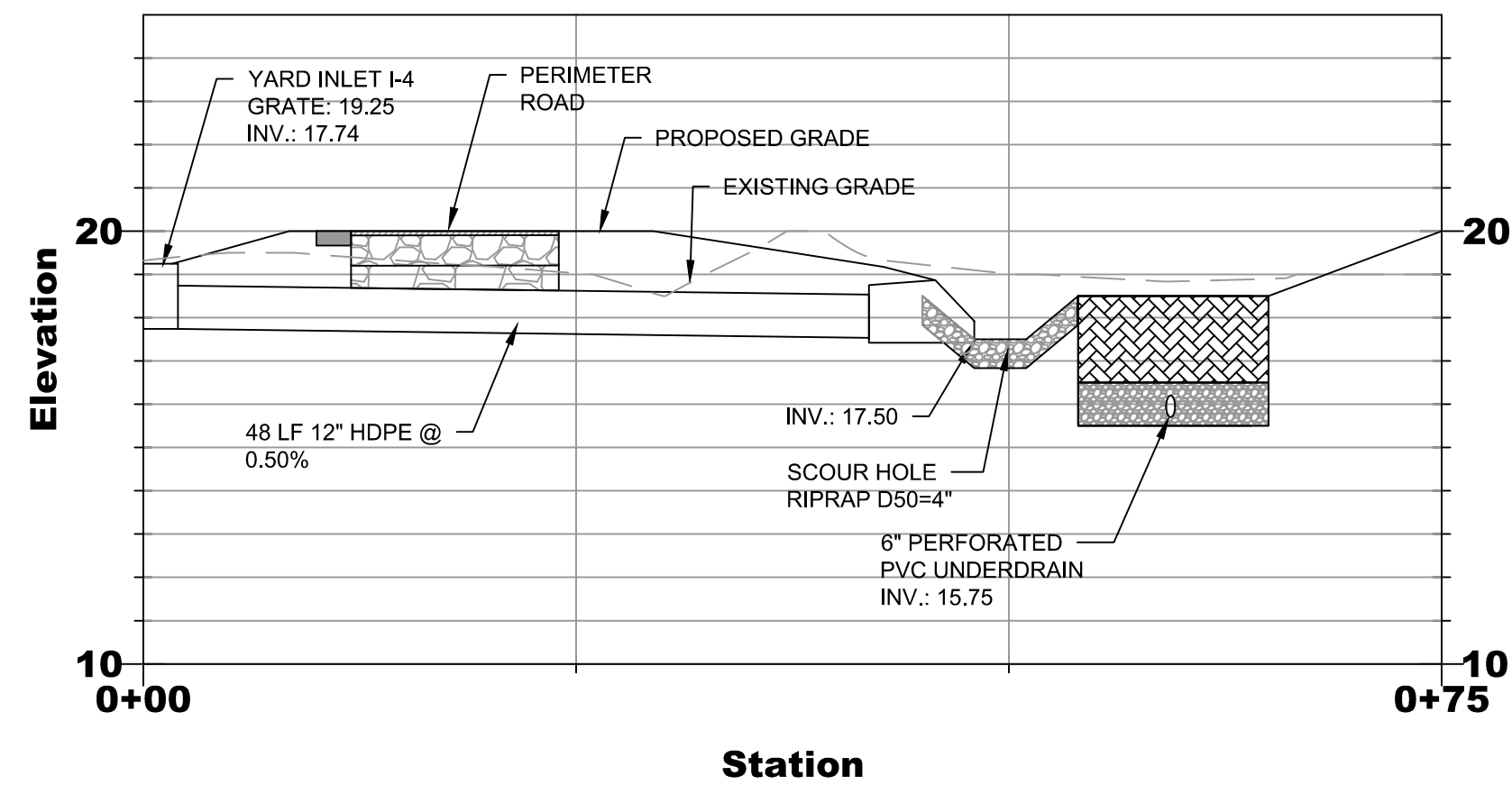
STORMWATER PROFILE 1
HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 4'



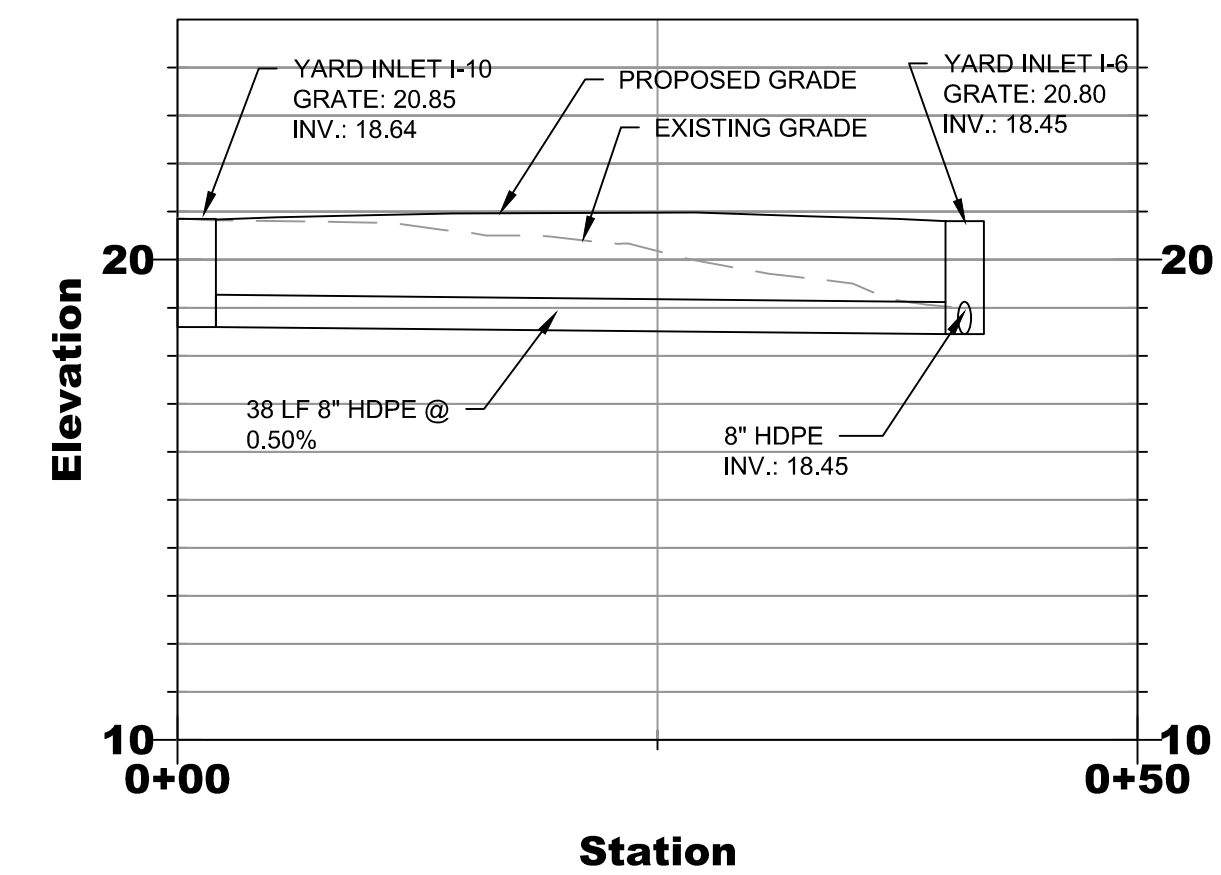
STORMWATER PROFILE 2
HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 4'



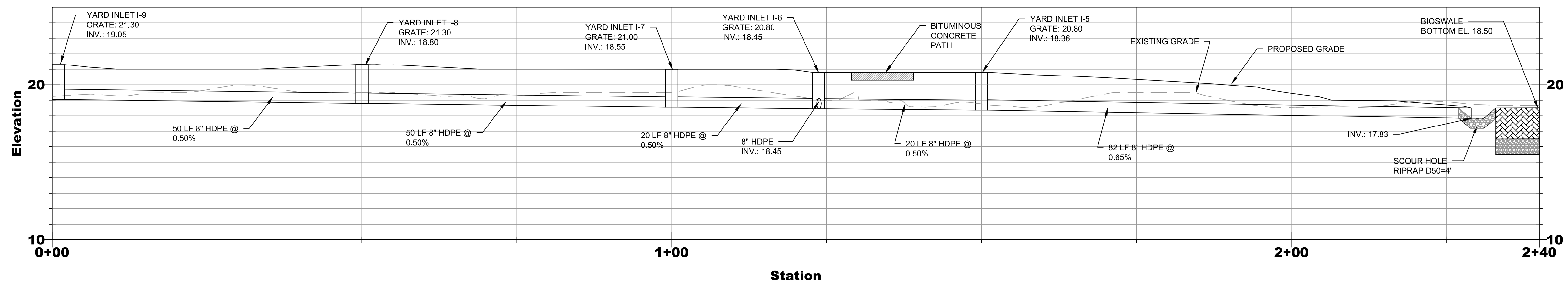
STORMWATER PROFILE 3
HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 4'



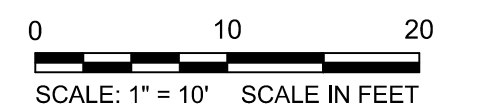
STORMWATER PROFILE 4
HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 4'



STORMWATER PROFILE 6
HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 4'



STORMWATER PROFILE 5
HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 4'



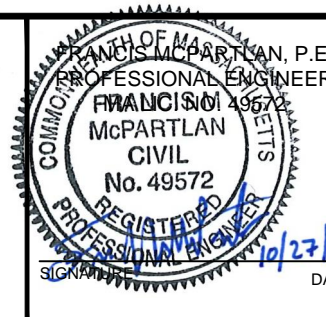
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ON ORIGINAL DRAWING

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SCALES ACCORDINGLY
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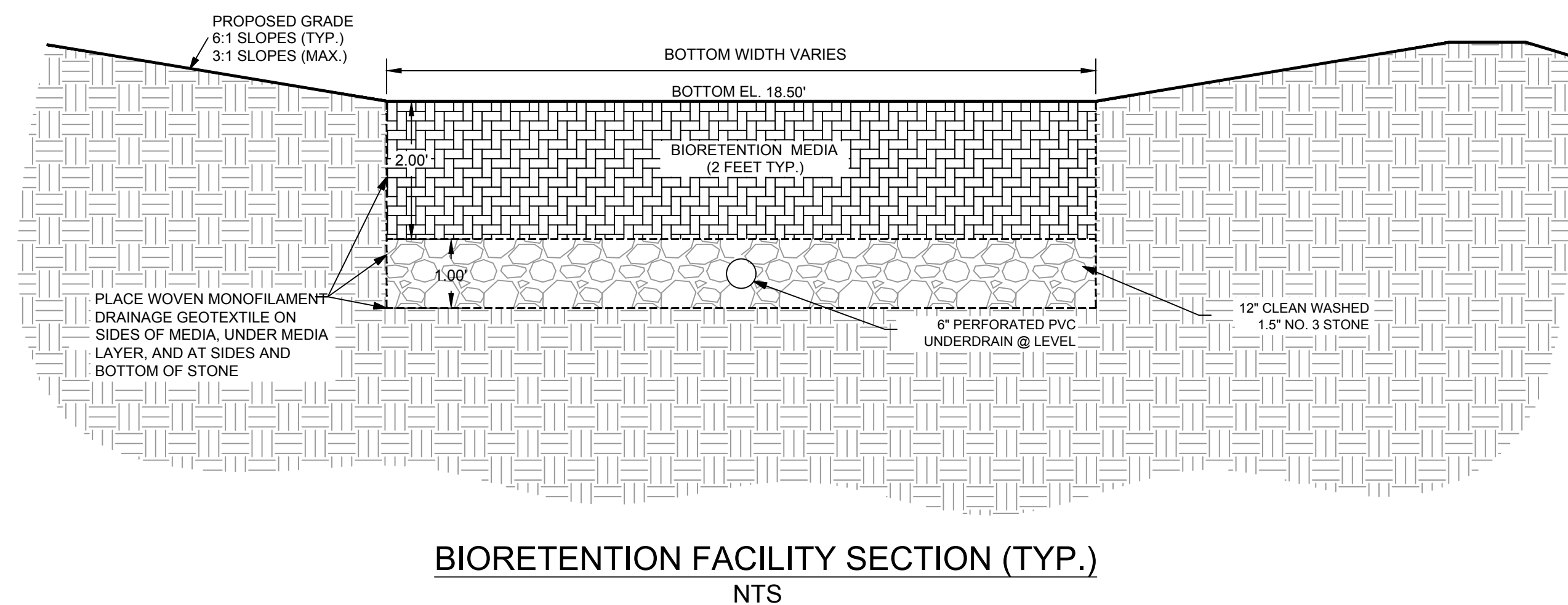
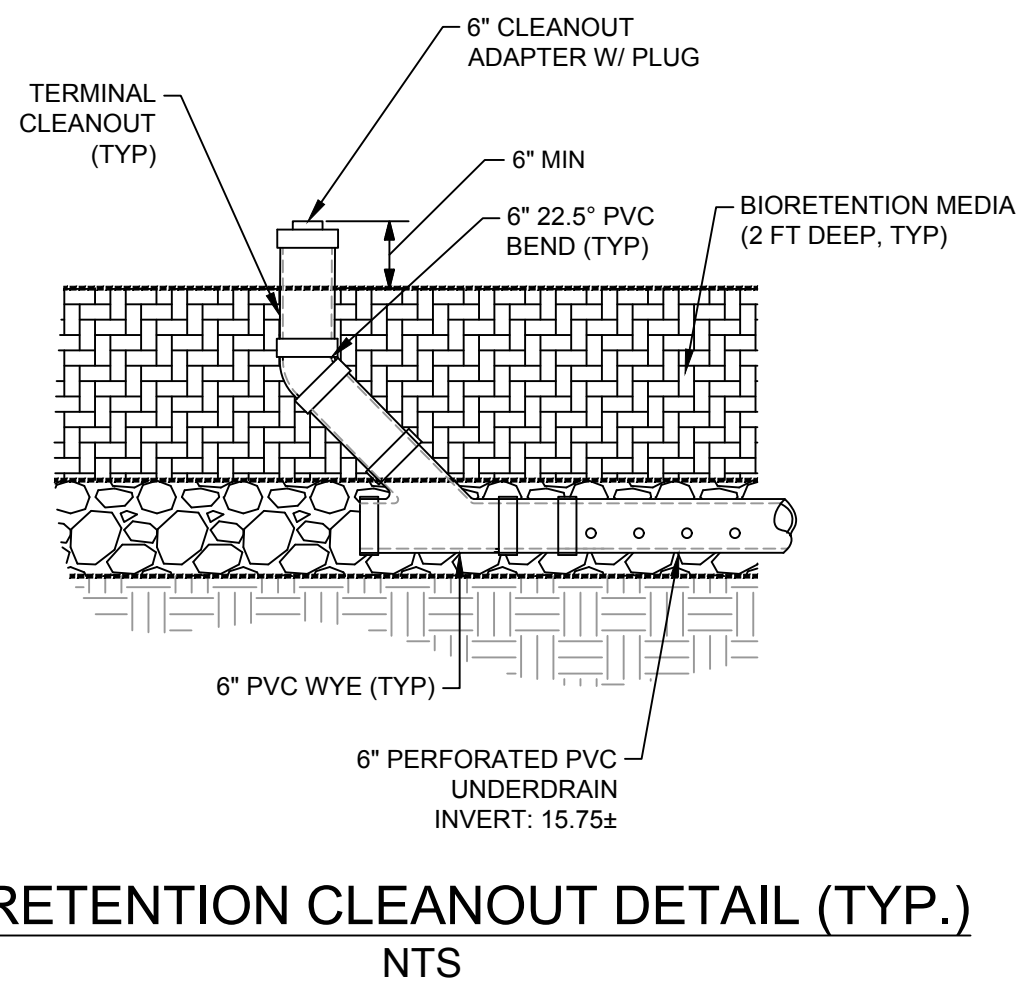
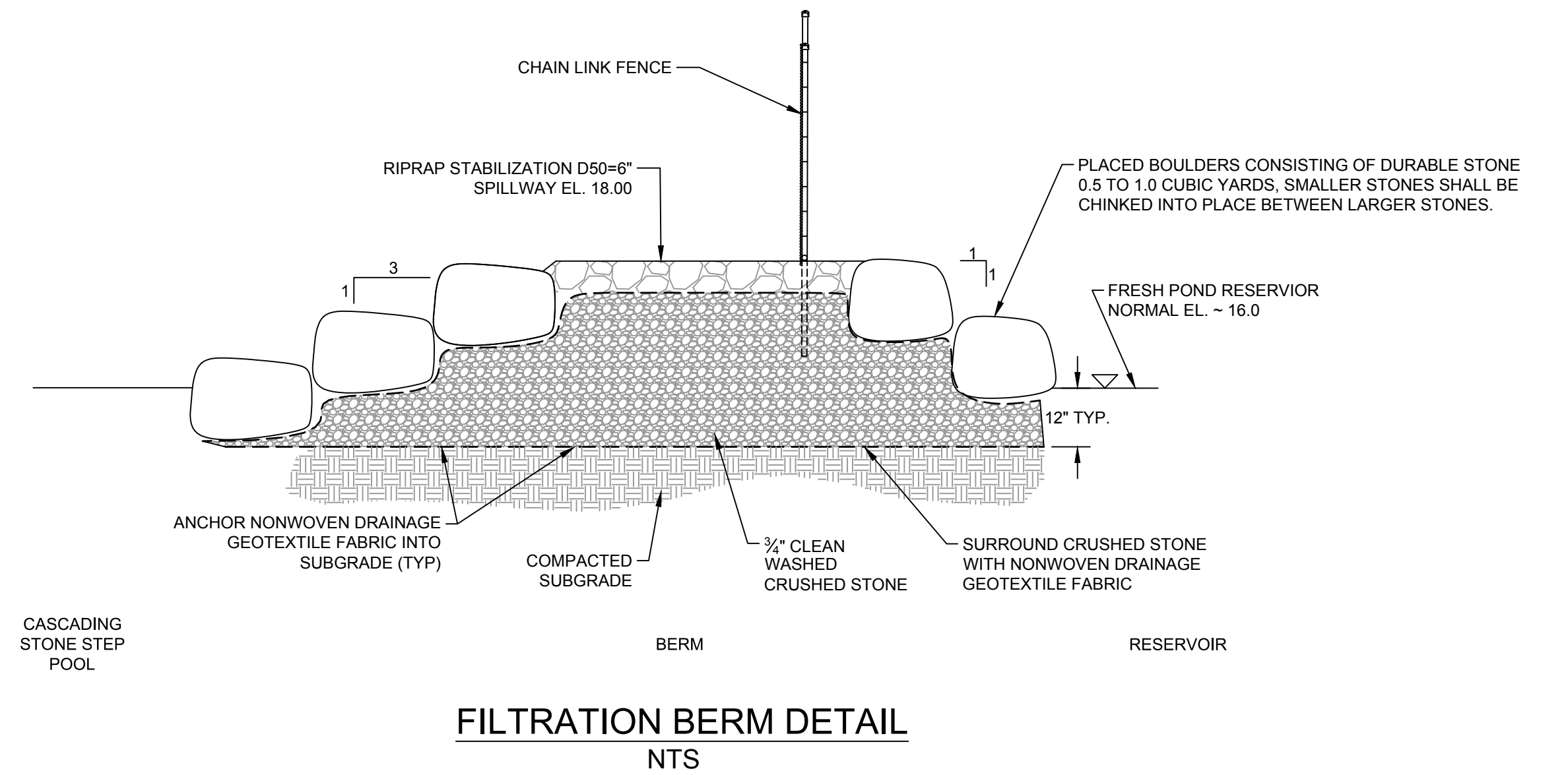
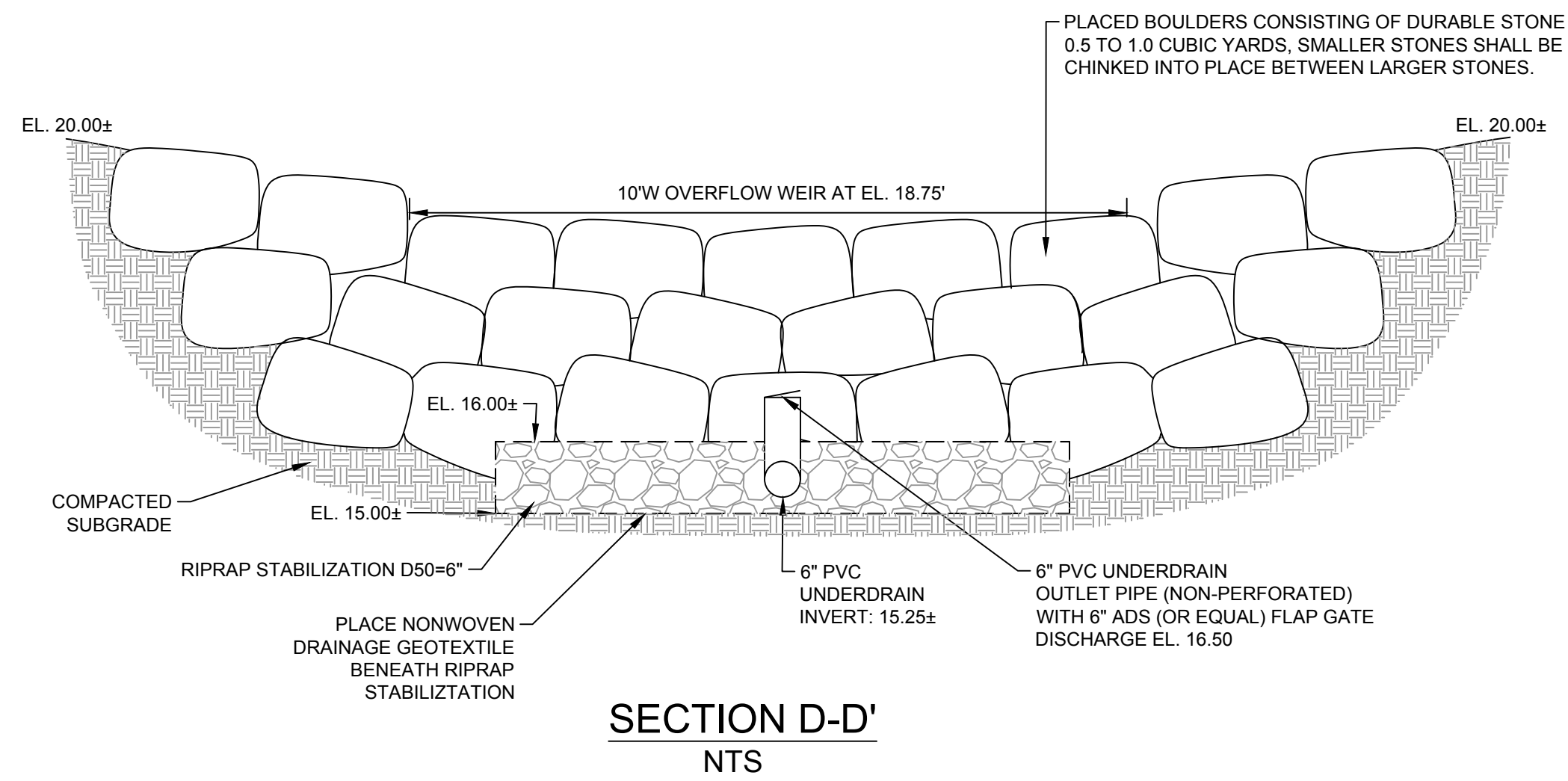
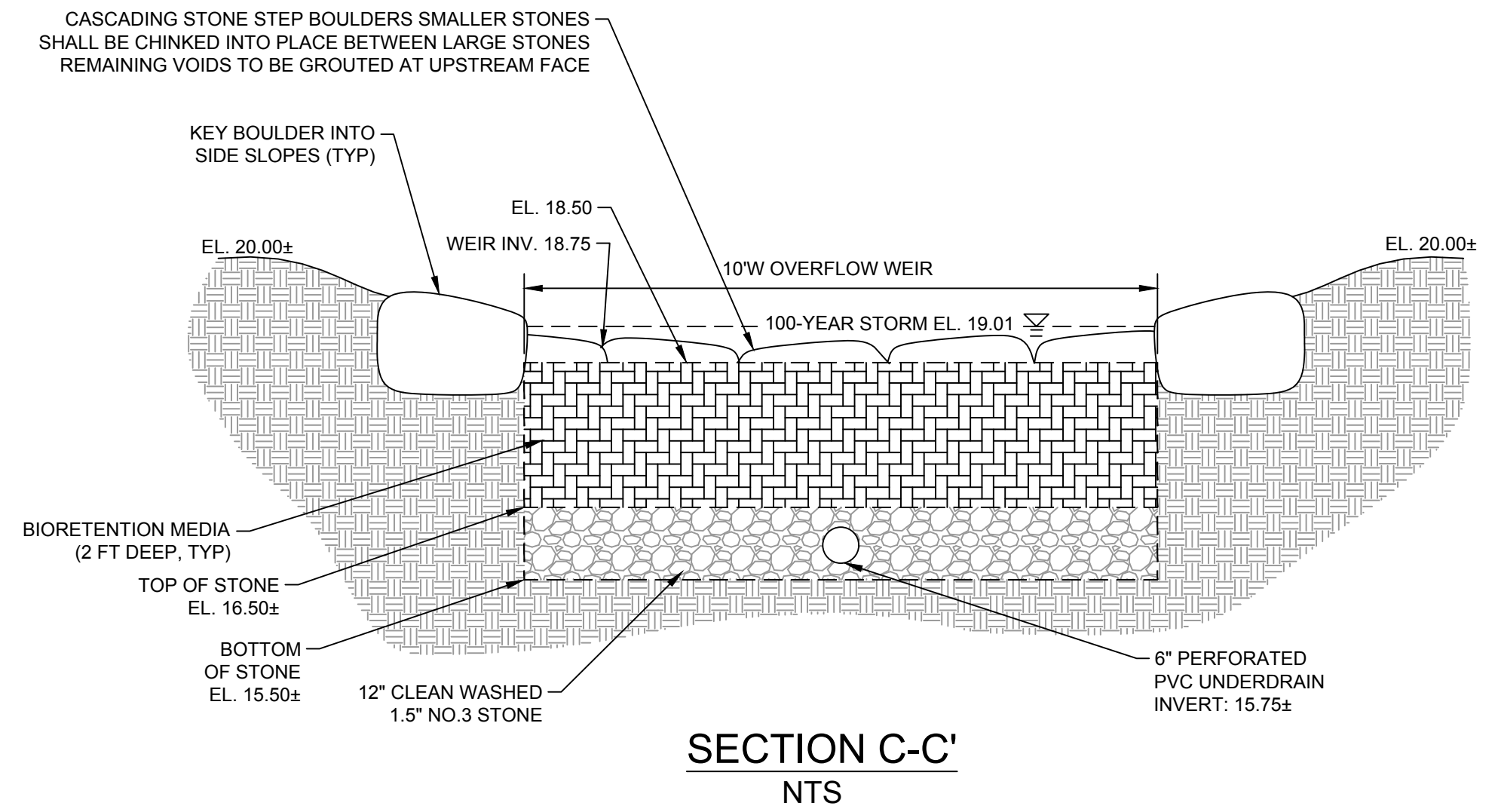
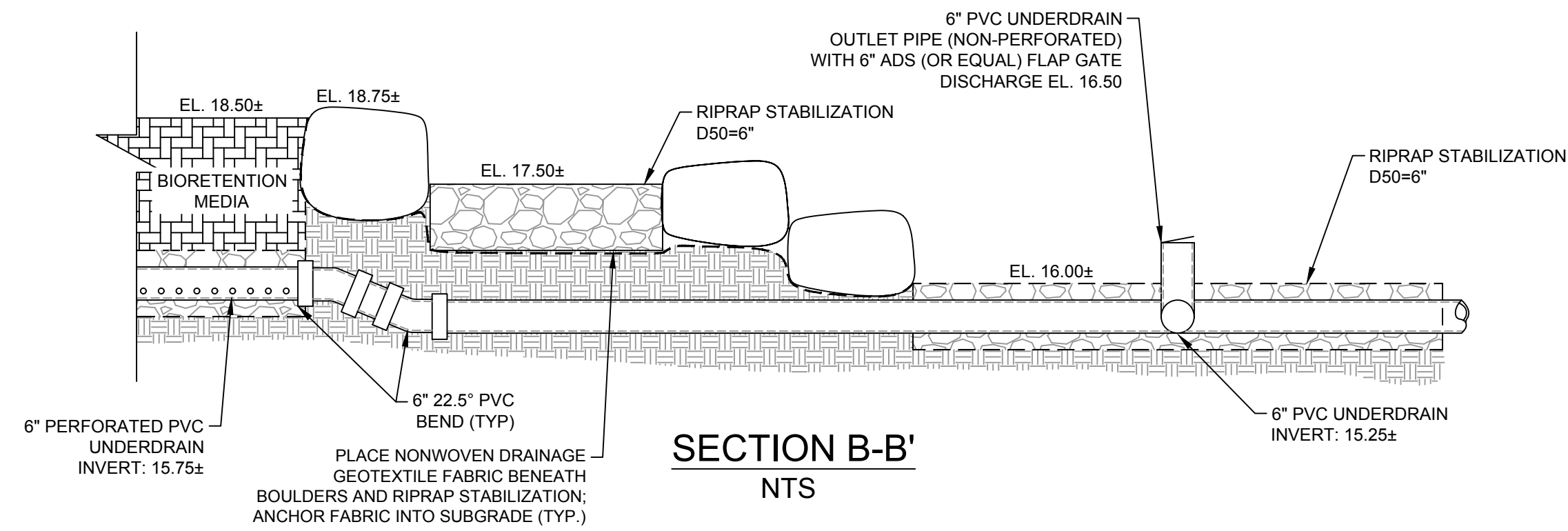
Client
CITY OF CAMBRIDGE, MASSACHUSETTS

Project
**FRESH POND DRAINAGE IMPROVEMENTS
COMMUNITY GARDENS**

Drawing
DRAINAGE PIPE PROFILES

Sheet
C-11

File No.



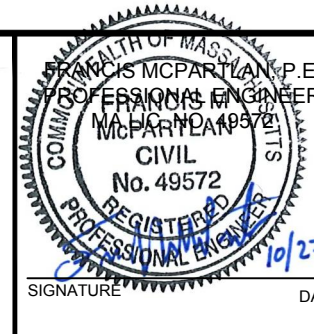
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SCALE VERIFICATION
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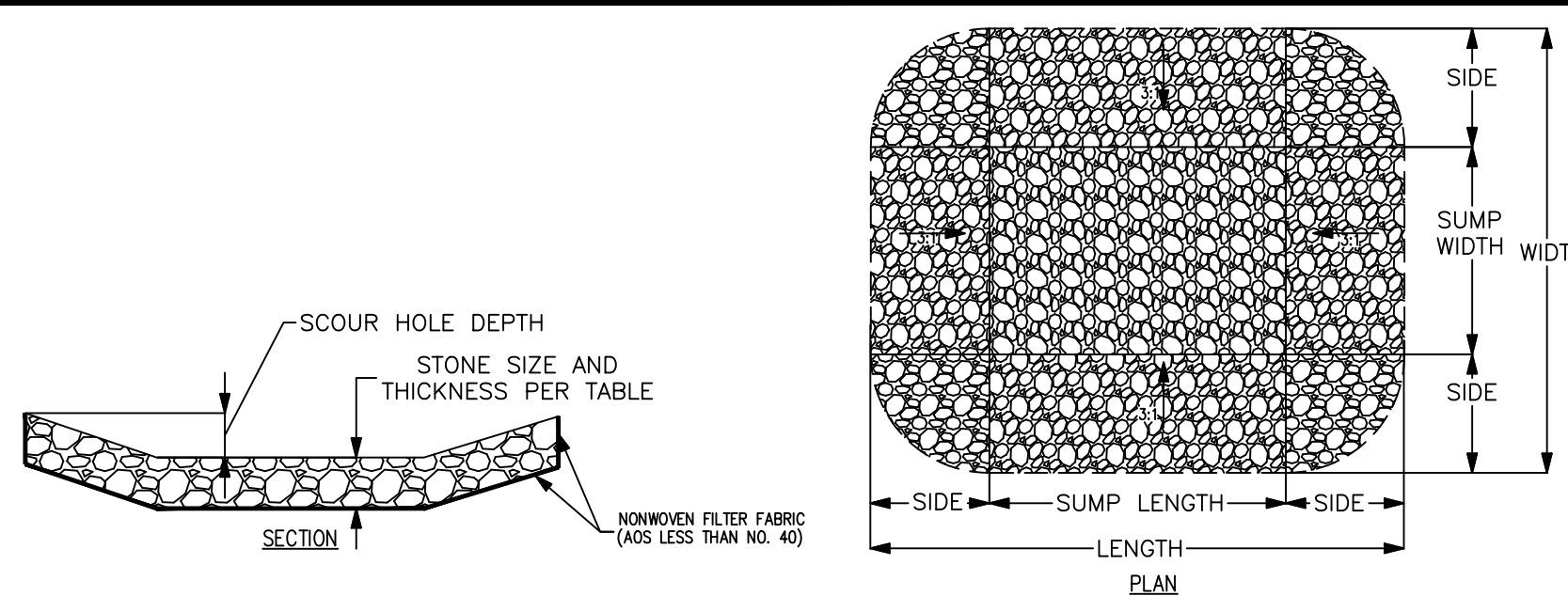
Client CITY OF CAMBRIDGE, MASSACHUSETTS

Project FRESH POND DRAINAGE IMPROVEMENTS
COMMUNITY GARDENS

Drawing CONSTRUCTION DETAILS

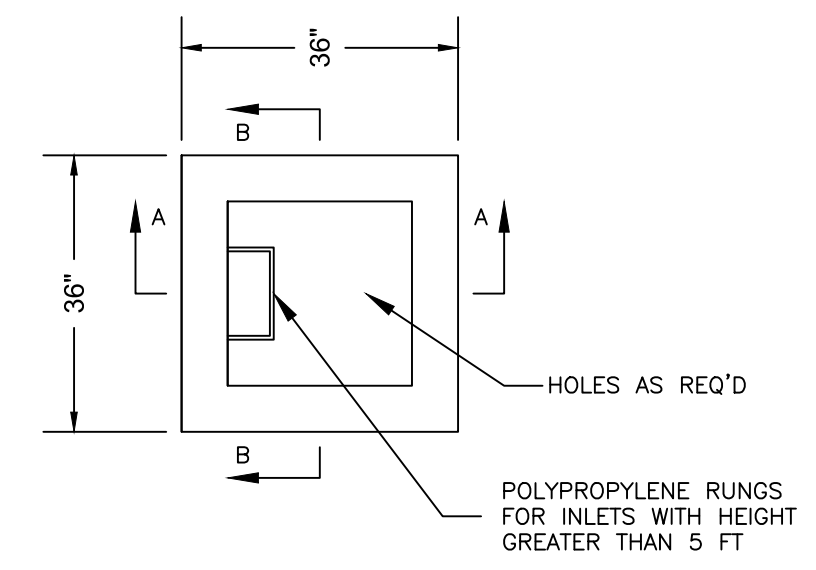
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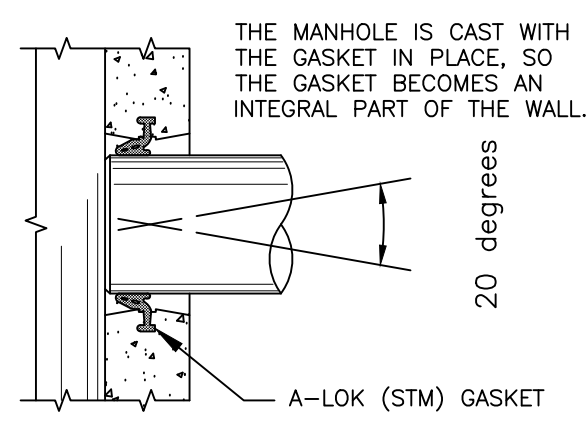
SCOUR HOLE	ELEV.	PIPE SIZE	SUMP WIDTH	SUMP LENGTH	DEPTH	SIDES	TOTAL WIDTH	TOTAL LENGTH	DESIGN FLOW	TAIL EL.	d50 SIZE	THICK
SCOUR HOLE S1	17.67'	0.67'	1.33'	2.00'	0.67'	2.00'	5.33'	6.00'	0.36 cfs	18.79'	4 IN.	8 IN.
SCOUR HOLE S2	17.67'	1.00'	2.00'	3.00'	1.00'	3.00'	8.00'	9.00'	1.21 cfs	18.79'	4 IN.	8 IN.
SCOUR HOLE S3	17.67'	1.00'	2.00'	3.00'	1.00'	3.00'	8.00'	9.00'	1.12 cfs	18.79'	4 IN.	8 IN.
SCOUR HOLE S4	17.67'	1.00'	2.00'	3.00'	1.00'	3.00'	8.00'	9.00'	1.12 cfs	18.79'	4 IN.	8 IN.
SCOUR HOLE S5	17.67'	0.67'	1.33'	2.00'	0.67'	2.00'	5.33'	6.00'	0.63 cfs	18.79'	4 IN.	8 IN.

SCOUR HOLE DETAIL
NTS

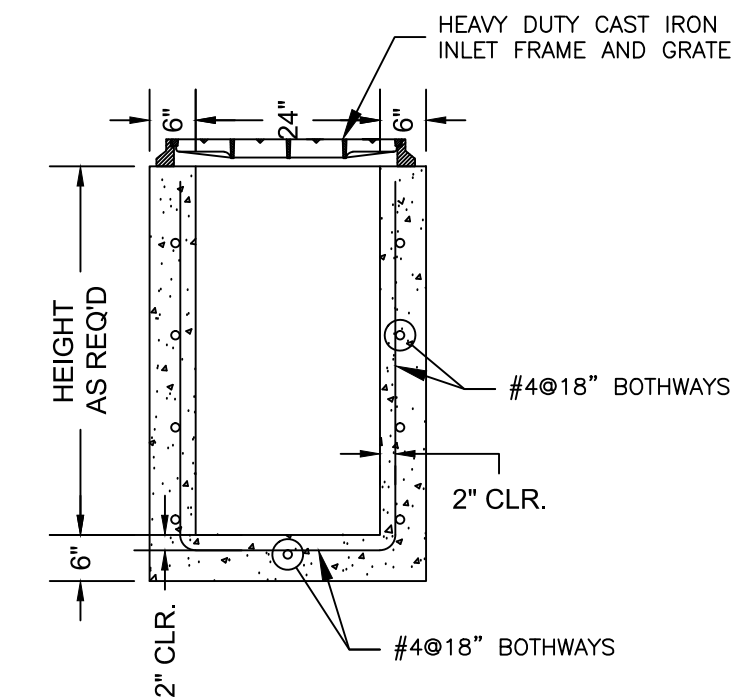


PLAN VIEW

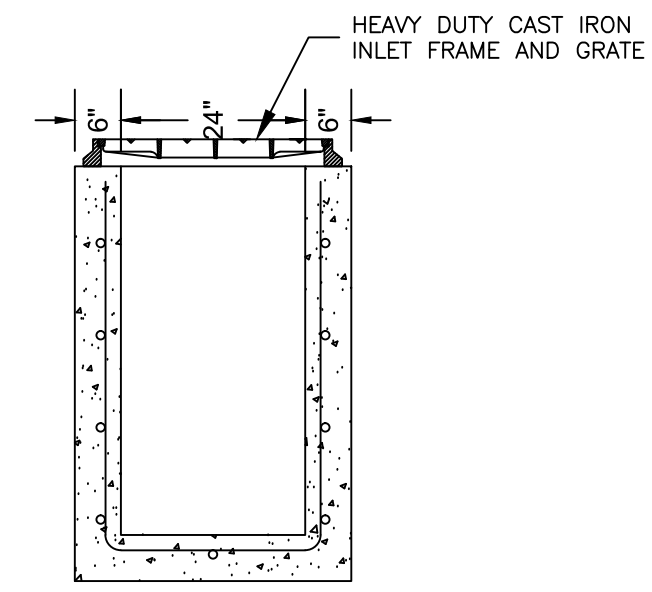
- SPECIFICATIONS:**
- THE CONCRETE IS DESIGNED TO OBTAIN A STRENGTH OF 4,000 PSI IN 28 DAYS.
 - THE REINFORCING STEEL HAS A YIELD STRENGTH OF 60,000 PSI.
 - THE INLET SHALL BE DESIGNED TO MEET ASTM C-913, "PRECAST CONCRETE WATER AND WASTEWATER STRUCTURES."
 - THE REINFORCED CONCRETE WALLS AND BASE SLAB ARE DESIGNED FOR A MAXIMUM DEPTH OF 20 FT (DEPTH = F.G. TO TOP OF BASE SLAB).
 - PROVIDE A-LOK STORM GASKETS DESIGNED TO MEET THE REQUIREMENTS OF ASTM C-1478, "STORM DRAIN RESILIENT CONNECTORS BETWEEN REINFORCED CONCRETE STORM SEWER STRUCTURES, PIPES, AND LATERALS."



A-LOCK STM SECTION

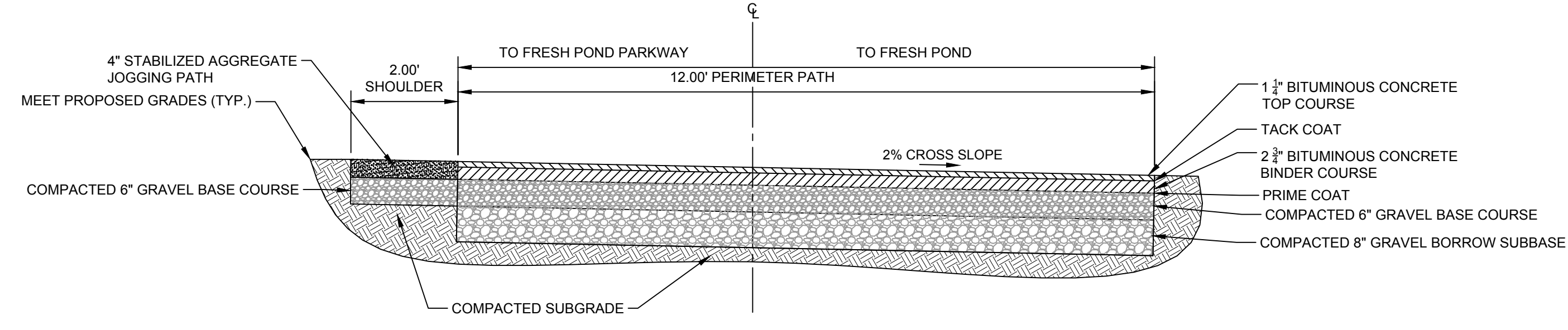


SECTION A-A

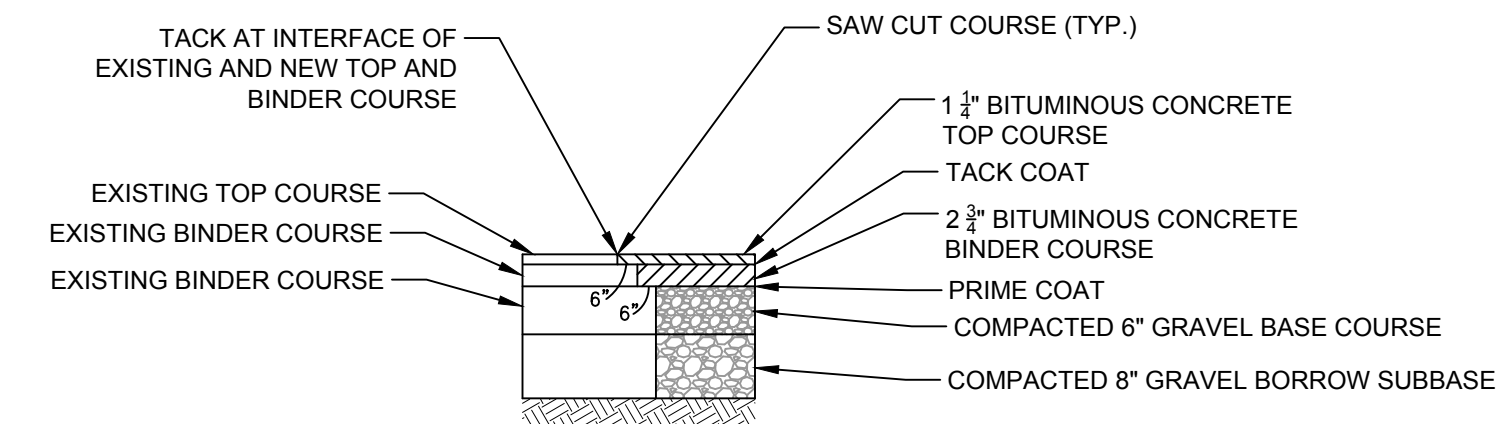


SECTION B-B

YARD INLET AND DETAILS (TYP)
NTS

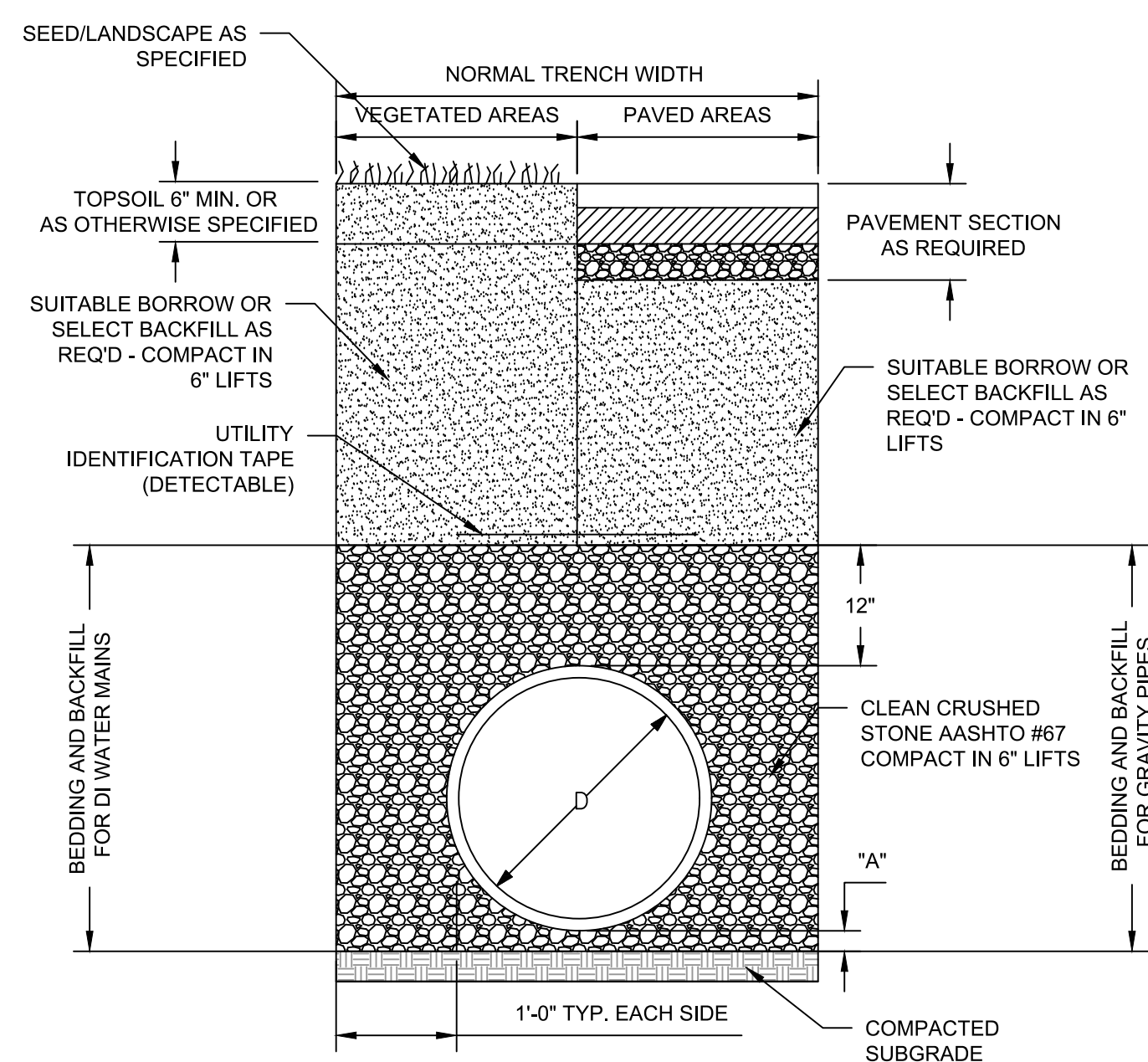


PERIMETER ROAD SECTION (TYP.)
NTS



- NOTES:**
1. ALL STEP BACKS IN BITUMINOUS CONCRETE SHALL BE A MINIMUM OF 6"

BITUMINOUS CONCRETE KEY DETAIL (TYP.)
NTS



PIPE TRENCH DETAIL (TYP)
NTS

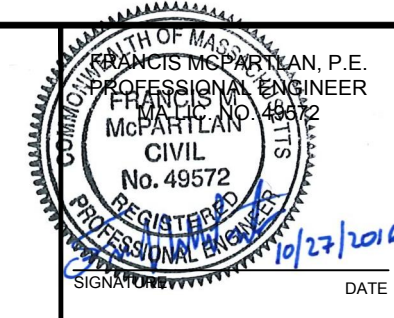
PIPE SIZE (DIA.)	MAX TRENCH WIDTH FOR PAYMENT	MAX "A" FOR PAYMENT
LESS THAN 2"	2'-0"	0'-6"
2" TO 6"	3'-0"	0'-6"
8" TO 22"	4'-0"	0'-9"
24" & GREATER	ID + 2'-0"	1'-0"

NOI

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ORIGINAL DRAWING SIZE IS 22 x 34

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Client	CITY OF CAMBRIDGE, MASSACHUSETTS
Project	FRESH POND DRAINAGE IMPROVEMENTS COMMUNITY GARDENS
Drawing	CONSTRUCTION DETAILS

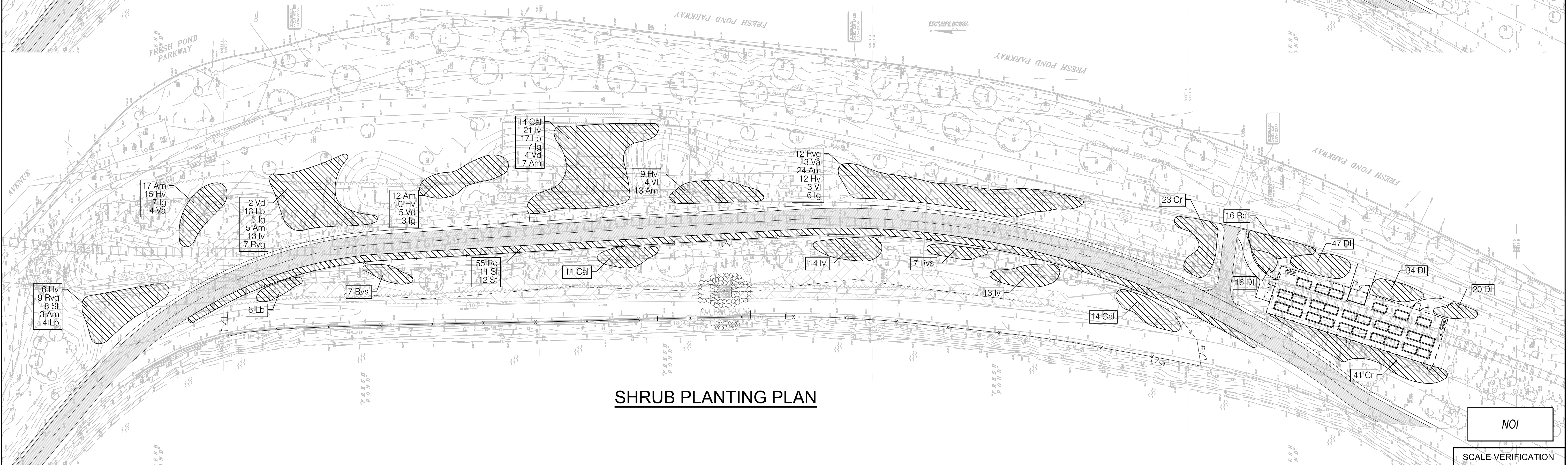
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SCALE: 1" = 30' SCALE IN FEET

LANDSCAPE LEGEND:
 ○ QR1 PROPOSED DECIDUOUS CANOPY TREE
 ○ AB PROPOSED EVERGREEN CANOPY TREE
 ○ CA1 PROPOSED DECIDUOUS UNDERSTORY TREE



TREE PLANTING PLAN



SHRUB PLANTING PLAN

LANDSCAPE LEGEND:
 ▨ SHRUB PLANTING BED

NOTE:
 SHRUB LAYOUT TO BE COORDINATED IN THE FIELD BY LANDSCAPE ARCHITECT.

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 SCALE VERIFICATION
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 IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY
 ORIGINAL DRAWING SIZE IS 22 x 34

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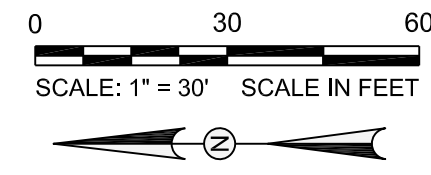


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Date	OCTOBER 2016		
Job No.	1502		
Designed by	KMDG	2	NOI Submission 10/27/16
Drawn by	SK/EH	1	Landscape Plan Revisions 02/15/16
Checked by	KM	No.	Description Date
Approved by	KM		REVISIONS



Client	CITY OF CAMBRIDGE, MASSACHUSETTS
Project	FRESH POND DRAINAGE IMPROVEMENTS COMMUNITY GARDENS
Drawing	TREE AND SHRUB PLANTING PLAN

Sheet	L-1
File No.	



- LANDSCAPE LEGEND:**
- 50/50 TURF SEED MIX
 - BIORETENTION PLUG PLANTING
 - FLOODPLAIN SEED MIX
 - WOODLAND SEED MIX

SEED TO COVER LIMITS OF DISTURBANCE

SEEDING AND GROUNDCOVER PLAN

FENCE AND EROSION CONTROL MATTING PLAN

FENCE LEGEND:

- COMMUNITY GARDEN FENCE
- LONG TERM PLANT ESTABLISHMENT FENCE
- 4' CHAIN LINK FENCE
- CHAIN LINK FENCE STEPPING FROM 4' TO 6' - SEE SPEC AND DETAIL
- EROSION CONTROL MATTING - SEE L-4 FOR DETAIL
- LONG TERM PLANT EST. FENCE GATE
- 4' CLF GATE
- COMMUNITY GARDEN SINGLE SWING GATE
- COMMUNITY GARDEN DOUBLE SWING GATE
- LONG TERM PLANT EST. FENCE GATE
- 4' CLF GATE
- COMMUNITY GARDEN SINGLE SWING GATE
- COMMUNITY GARDEN DOUBLE SWING GATE

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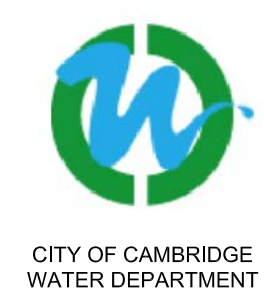
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Scale	1" = 30'		
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Approved by	KM		REVISIONS



Client	CITY OF CAMBRIDGE, MASSACHUSETTS
Project	FRESH POND DRAINAGE IMPROVEMENTS COMMUNITY GARDENS
Drawing	SEEDING AND FENCING PLAN

Sheet	L-2
File No.	

GENERAL PLANTING NOTES

- IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT SCHEDULE, THE PLANTING SCHEDULE SHALL GOVERN.
- ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
- ALL PLANT MATERIAL SHALL BE NURSERY GROWN. NO FIELD COLLECTED SPECIMENS SHALL BE ALLOWED.
- CONTRACTOR SHALL PROVIDE NURSERY SOURCES FOR ALL PLANT MATERIAL PRIOR TO PURCHASE AND DELIVERY; CONTRACTOR SHALL WORK TO ACQUIRE NON-CULTIVAR MATERIAL FOR PLANTINGS TO THE GREATEST EXTENT PRACTICABLE; CULTIVAR MATERIAL WILL NOT BE ALLOWED UNLESS APPROVED BY ENGINEER AND OWNER PRIOR TO DELIVERY OF PLANTS TO THE PROJECT SITE.
- ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE ENGINEER AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
- ALL NEW PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN, UNLESS OTHERWISE NOTED ON THE PLANT SCHEDULE.
- THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABITAT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE ENGINEER AND OWNER.
- CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE ENGINEER. NO TREES SHALL BE PLANTED CLOSER THAN TEN FEET (10') TO ANY UNDERGROUND WATER AND DRAINAGE LINES OR STRUCTURES.
- STAKE LOCATION OF ALL PROPOSED PLANTING ZONES FOR APPROVAL BY THE ENGINEER PRIOR TO THE COMMENCEMENT OF PLANTING.
- NO TREES OR SHRUBS SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING BY ENGINEER.
- NEW SHRUBS AND GROUND COVER SHALL BEAR THE SAME RELATIONSHIP TO GRADE AS IT BORE TO PREVIOUS GRADE. TREES SHALL BEAR SAME RELATIONSHIP TO GRADE AS THEY BORE TO PREVIOUS GRADE IN NURSERY OR HIGHER TO PREVENT COVERING ROOT FLARE.
- ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. PROTECTION TECHNIQUES SHALL BE REVIEWED BY AND APPROVED BY THE ENGINEER.
- SEED AND/OR HYDROMULCH ALL DISTURBED AREAS WITH APPROVED SEED MIX.
- ALL AREAS TO BE SEEDED SHALL RECEIVE A MINIMUM OF TWELVE INCHES (12") OF PLANTING SOIL, MEASURED AFTER COMPACTION, PRIOR TO SEEDING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED, STOLEN, DEAD, DECLINING, OR LOST MATERIAL UNTIL COMPLETION OF MAINTENANCE AND GUARANTEE PERIOD.
- THE LANDSCAPE ARCHITECT SHALL APPROVE ALL PLANT MATERIAL AND STAKED PLANT LOCATIONS PRIOR TO INSTALLATION. ALL HERBACEOUS PLUG PLANTINGS SHALL BE A MINIMUM 3 INCH DEPTH. PLUGS SHALL BE PLANTED 18" O.C. AS INDICATED ON PLAN.
- IF PLANT SIZES ARE REDUCED, CONTRACTOR MUST PROVIDE PROTECTION FOR SHRUBS TO AVOID INADVERTENT DAMAGE DURING MAINTENANCE.
- ALL WEEDS MUST BE REMOVED FROM ROOTBALLS (BOTH CONTAINER AND BALLED AND BURLAPPED MATERIAL) PRIOR TO PLANTING.
- GROUND COVER PLANTING CELLS WILL BE FIELD LOCATED BY OWNER'S REPRESENTATIVE WITHIN SHRUB PLANTING BED AREAS.

BIORETENTION PLANTING					
PLUGS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
Ai	250	Asclepias incarnata	Swamp milkweed	plugs	
An1	400	Aster novae-angliae	New England Aster	plugs	
An2	200	Aster novi-belgii	New York Aster	plugs	
Cl1	500	Carex lupulina	Hop sedge	plugs	
Cl2	700	Carex lurida	Lurid Sedge	plugs	
Cs	450	Carex stricta	Tussock Sedge	plugs	
Cv	650	Carex vulpinoidea	Fox Sedge	plugs	
Cg	150	Chelone glabra	White Turtlehead	plugs	
Em	250	Eupatorium maculatum	Joe-Pye Weed	plugs	
Ep	200	Eupatorium perfoliatum	Boneset	plugs	
Je	600	Juncus effusus	Soft Rush	plugs	
Iv	200	Iris versicolor	Blue Flag Iris	plugs	
Lc	150	Lobelia cardinalis	Cardinal Flower	plugs	
Li	200	Lobelia inflata	Indian Tobacco	plugs	
Sc	500	Scirpus cyperinus	Woolgrass	plugs	
Sp	350	Scirpus pungens	Threesquare Bullrush	plugs	
Vh	350	Verbena hastata	Blue Vervain	plugs	

GROUND COVER CELL PLANTING					
PLUGS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
Pa	100	Polystichum acrostichoides	Christmas fern	plugs	
Ad	200	Aster divaricatus	White wood aster	plugs	
Dp	250	Dennstaedtia punctiloba	Hay scented fern	plugs	
Ac1	100	Asarum canadense	Wild ginger	plugs	
Ac2	200	Aster cordifolius	Blue wood aster	plugs	
An	100	Aster novae-angliae	New England Aster	plugs	
Af	150	Athyrium filix-femina	Lady Fern	plugs	
Os	200	Onoclea sensibilis	Sensitive Fern	plugs	
Oc	100	Osmunda cinnamomea	Cinnamon Fern	plugs	

FLOODPLAIN SEED MIX		
Source: Ernst Conservation Seed		
BOTANICAL NAME	COMMON NAME	PERCENT
Elymus virginicus	Virginia Wildrye	30%
Panicum clandestinum	Deertongue	25%
Andropogon gerardii	Big Bluestem	15%
Panicum virgatum	Switchgrass	10%
Carex scoparia	Blunt Broom Sedge	4%
Verbena hastata	Blue Vervain	4%
Desmodium canadense	Showy Ticktrefoil	2%
Eupatorium fistulosum	Hollow-stemmed Joe Pye Weed	2%
Eupatorium perfoliatum	Boneset	2%
Pycnanthemum tenuifolium	Slender Mountainmint	2%
Sisyrinchium angustifolium	Narrowleaf Blue Eyed Grass	2%
Aster novae-angliae	New England Aster	2%

WOODLAND SEED MIX		
Source: Ernst Conservation Seed		
BOTANICAL NAME	COMMON NAME	PERCENT
Festuca rubra	Creeping Red Fescue	40%
Agrostis scabra	Ticklegrass	30%
Agrostis perennans	Autumn Bentgrass	15%
Juncus tenuis	Path Rush	10%
Aster divaricatus (Eurybia divaricata)	White Wood Aster	3%
Aster novi-belgii (Symphyotrichum novi-belgii)	New York Aster	2%

PLANT SCHEDULE					
TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
AB	3	Abies balsamea	Balsam Fir	6/7' ht. B&B	
AC1	6	Amelanchier canadensis	Serviceberry	7/8' ht. B&B	no staking required
AC2	11	Amelanchier canadensis	Serviceberry	5/6' ht. clump B&B	clump, no staking required
Ar1	3	Acer rubrum	Red Maple	1.5"/2" cal. B&B	
Ar2	4	Acer rubrum	Red Maple	2.5-3" cal. B&B	
As	2	Acer saccharum	Sugar Maple	1.5"/2" cal. B&B	
BA1	11	Betula alleghaniensis	Yellow Birch	6/7' ht. clump B&B	clump, no staking required
BA2	11	Betula alleghaniensis	Yellow Birch	7/8' ht. B&B	no staking required
Bl1	7	Betula lenta	Sweet Birch	2-2.5" cal. B&B	
CA1	8	Carpinus caroliniana	Musclewood	6/7' ht. B&B	no staking required
CA2	26	Carpinus caroliniana	Musclewood	1.5"/2" cal. B&B	no staking required
CO1	10	Carya ovata	Shagbark Hickory	5' ht. cont.	no staking required
CO2	5	Carya ovata	Shagbark Hickory	2-2.5" cal. B&B	
MS	2	Magnolia virginiana	Sweet Bay	8/10' ht. B&B	
NS1	3	Nyssa sylvatica	Sour Gum	1.5-2" cont.	no staking required
NS2	3	Nyssa sylvatica	Sour Gum	2-2.5" cal. B&B	
OV1	5	Ostrya virginiana	Ironwood	6/7' ht. B&B	no staking required
OV2	8	Ostrya virginiana	Ironwood	1.5"/2" cal. B&B	no staking required
PS1	10	Pinus strobus	White Pine	4/5' ht. B&B	
PS2	20	Pinus strobus	White Pine	8/10' ht. B&B	
QA	4	Quercus alba	White Oak	2-2.5" cal. B&B	
QR1	5	Quercus rubra	Red Oak	1.25-1.5" cal. cont.	
QR2	11	Quercus rubra	Red Oak	2.5-3" cal. B&B	
QV	4	Quercus velutina	Black Oak	2-2.5" cal. B&B	

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
Am	81	Aronia melanocarpa	Black Chokeberry	3/4' cont.	5' o.c.
Cal	39	Clethra alnifolia	Summersweet	2.5/3' cont.	5' o.c.
Cr	64	Cornus racemosa	Gray Dogwood	2.5/3' cont.	5' o.c.
DI	117	Diervilla lonicera	Bush Honeysuckle	18/24" cont.	3' o.c.
Hv	52	Hamamelis virginiana	Witchhazel	3.5/4' B&B	8' o.c.
Ig	28	Ilex glabra	Inkberry	3/4' cont.	5' o.c.
Iv	61	Ilex verticillata	Winterberry	2.5/3' cont.	5' o.c., male and female
Lb	40	Lindera benzoin	Spicebush	2.5/3' cont.	5' o.c.
Rvs	14	Rhododendron viscosum	Swamp Azalea	2/2.5' cont.	3' o.c.
Rc	71	Rosa carolina	Carolina Rose	2.5/3'	5' o.c.
Rvg	28	Rosa virginiana	Virginia Rose	2.5/3'	5' o.c.
SI	11	Spiraea latifolia	Meadowsweet	18/24"	3' o.c.
St	20	Spiraea tomentosa	Steeplebush	18/24"	3' o.c.
Va	7	Viburnum acerifolium	Mapleleaf Viburnum	3/4' cont.	6' o.c.
Vd	11	Viburnum dentatum	Arrowwood Viburnum	3/4' cont.	8' o.c.
VI	7	Viburnum lentago	Nannyberry	2.5/3' cont.	6' o.c.

TURF SEED MIX	
Source: John Deere Landscapes	
50/50 Seed Mixture:	
COMMON NAME	PERCENT
Corsair Kentucky Bluegrass	25%
Argyle Kentucky Bluegrass	25%
Buccaneer II Perennial Ryegrass	25%
Provocative Perennial Ryegrass	25%

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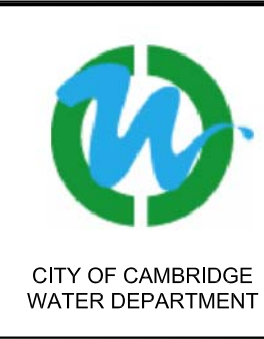
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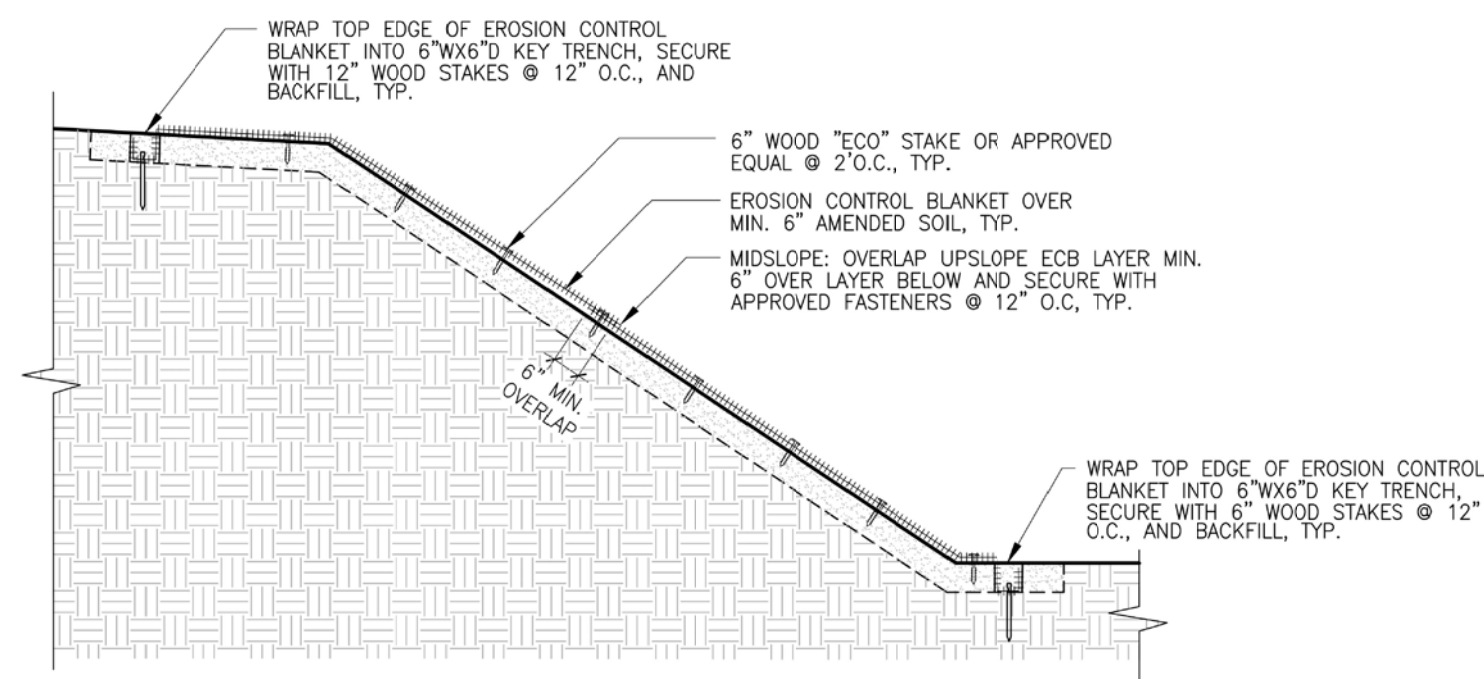


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		Job No.	1502			
		Designed by	KMDG	2	NOI Submission	10/27/16
		Drawn by	SK/EH	1	Landscape Plan Revisions	02/15/16
		Checked by	KM	No.	Description	Date
		Approved by	KM		REVISIONS	



Client	CITY OF CAMBRIDGE, MASSACHUSETTS
Project	FRESH POND DRAINAGE IMPROVEMENTS COMMUNITY GARDENS
Drawing	PLANTING SCHEDULE AND NOTES

Sheet	L-3
File No.	

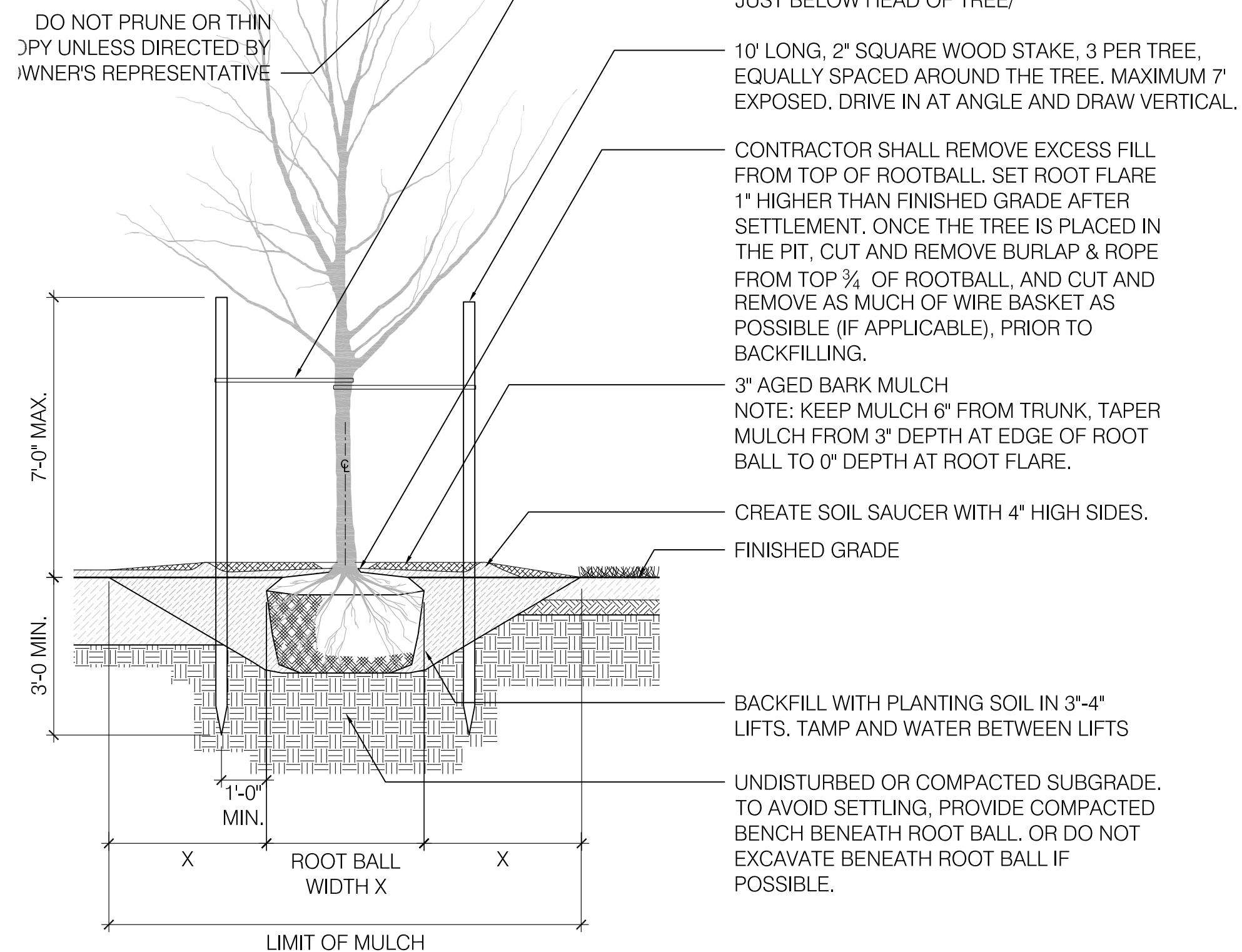


- NOTES:**
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS.
 2. INSTALL EROSION CONTROL MATTING PER MANUFACTURER RECOMMENDATIONS
 3. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
 4. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
 5. SEE LANDSCAPING PLANS FOR EROSION CONTROL MATTING PLACEMENT LOCATIONS.

4 EROSION CONTROL MATTING

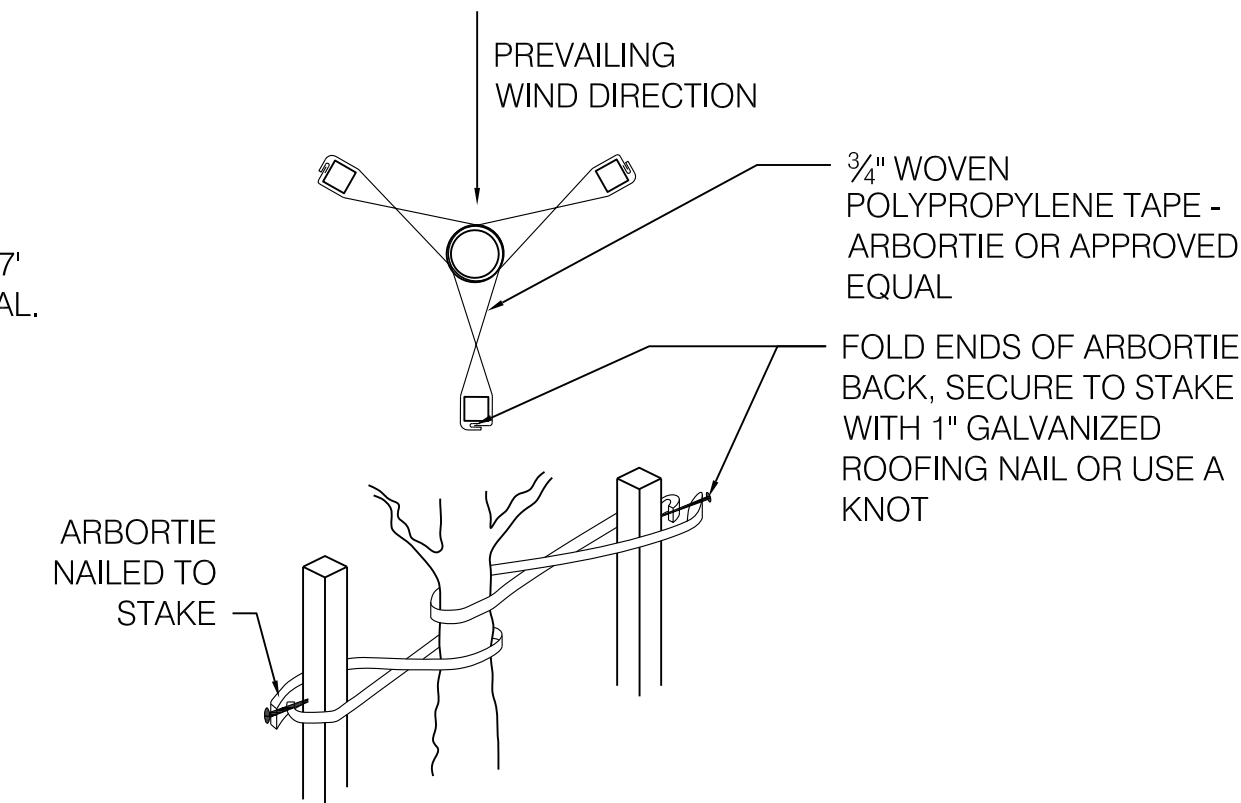
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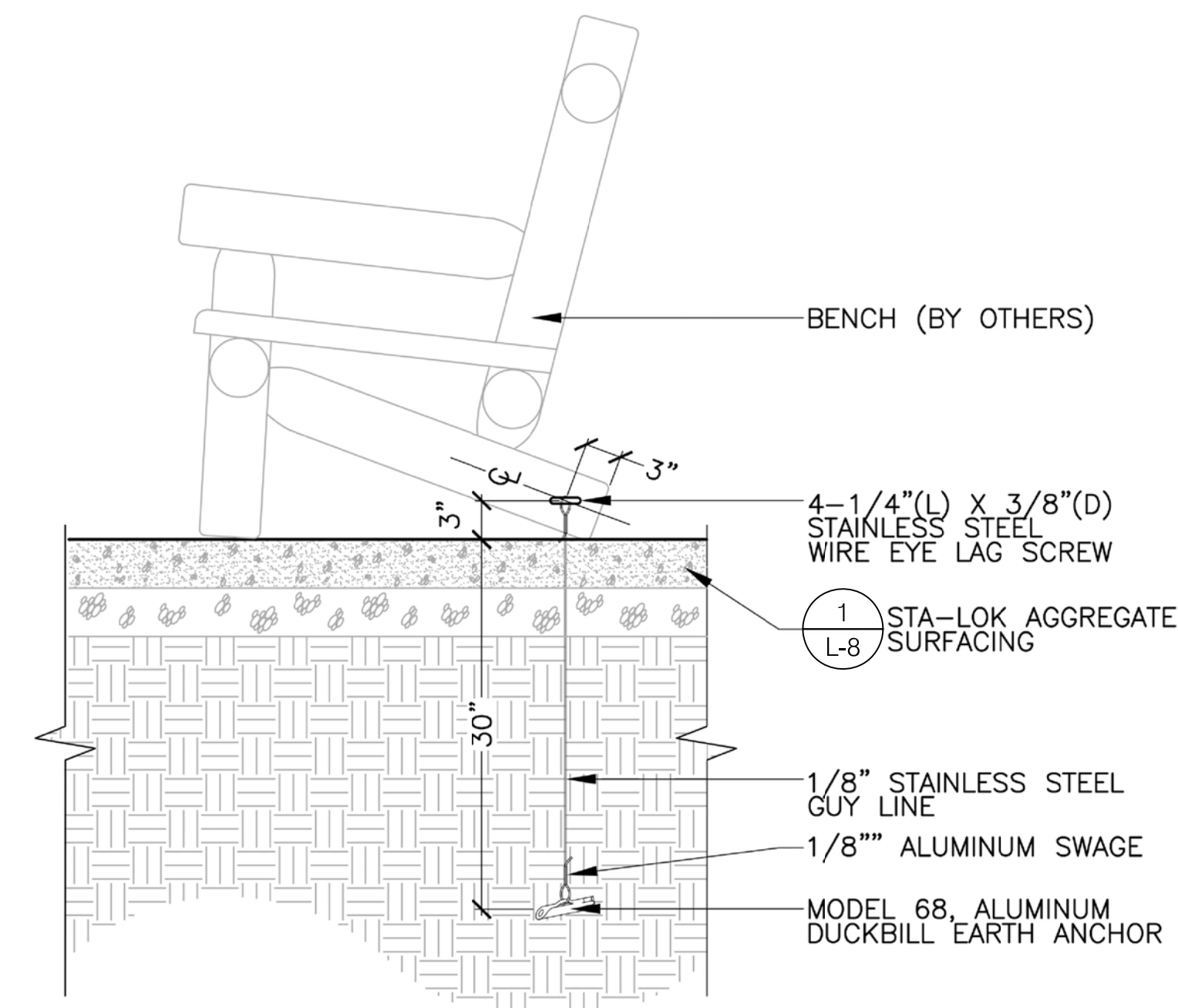


1 TREE PLANTING

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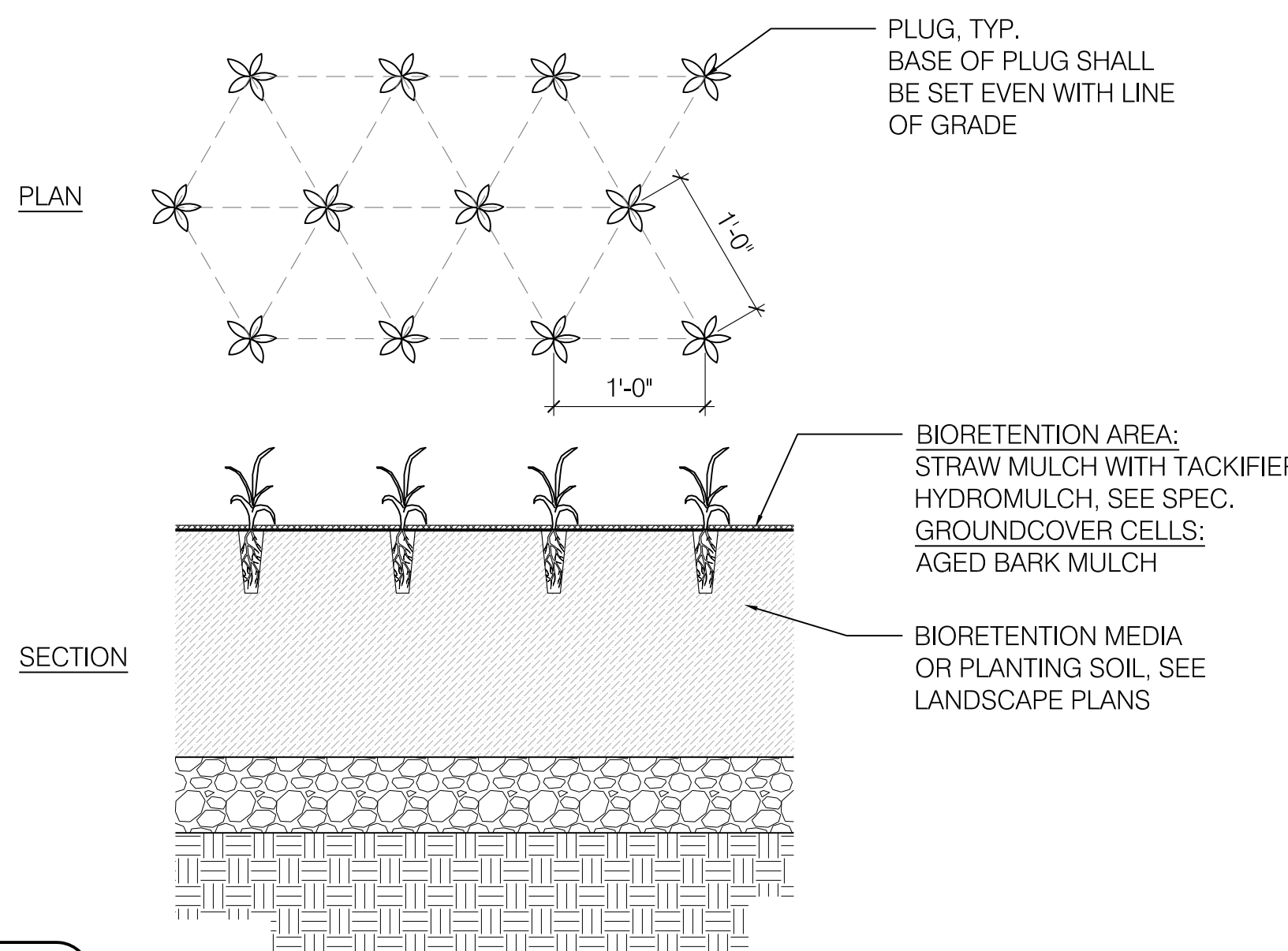


- NOTES:**
1. EACH TREE MUST BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOTBALL. TREES WHERE THE TRUNK FLARE IS NOT VISIBLE SHALL BE REJECTED.
 2. CONTRACTOR SHALL ADJUST PLUMBNESS AS REQUIRED OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
 3. DO NOT DAMAGE MAIN ROOTS OR ROOT BALL WHEN INSTALLING TREE STAKES.
 4. WATER THOROUGHLY AFTER INSTALLATION.
 5. REMOVE STAKES TWO YEARS OR LESS AFTER INSTALLATION.
 6. TREES TO BE STAKED EXCEPT AS NOTED IN PLANT LIST.



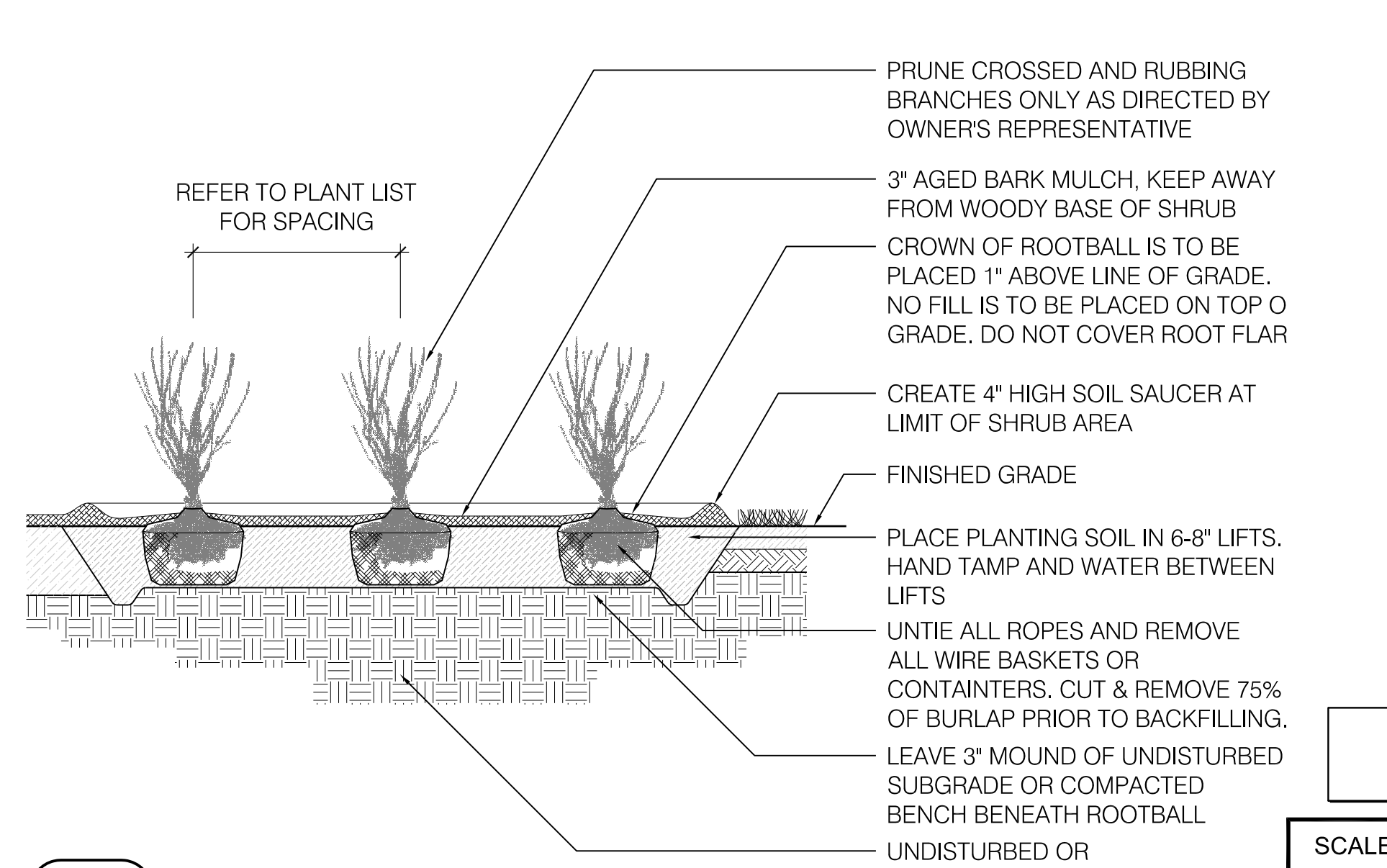
5 DUCKBILL EARTH ANCHOR

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3 PLUG PLANTING

SCALE: 1" = 1'-0"



2 SHRUB PLANTING

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

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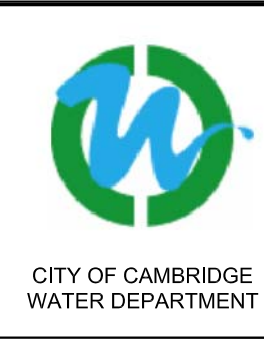
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Date	OCTOBER 2016			
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Client	CITY OF CAMBRIDGE, MASSACHUSETTS
Project	FRESH POND DRAINAGE IMPROVEMENTS COMMUNITY GARDENS
Drawing	LANDSCAPE DETAILS

Sheet	L-4
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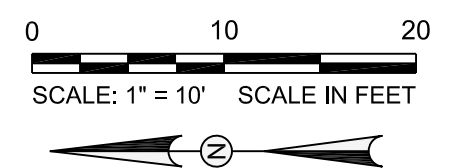


LEGEND

PAVING AND FENCES		
(P1)	STALOK AGGREGATE SURFACING	1 L-8
(P2)	BITUMINOUS CONCRETE (SEE CIVIL DRAWINGS)	
(P3)	COMMUNITY GARDEN FENCE	1 L-6
(P4)	COMMUNITY GARDEN GATE	1 L-7
(P5)	COMPOST ENCLOSURE	3 L-7
(P6)	LONG TERM PLANT ESTABLISHMENT FENCE	2 L-6
SITE FURNISHINGS		
(F1)	BENCH	3 L-8
(F2)	BICYCLE RACK, TOTAL OF 3	4 L-8
(F3)	BULLETIN BOARD	2 L-8
(F4)	RAISED GARDEN BED	2 L-8
(F5)	ACCESSIBLE GARDEN BED, TOTAL OF 3	1 L-9
(F6)	YARD HYDRANT	5 L-7

SHEET 5
SHEET 6

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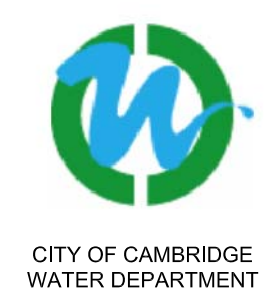


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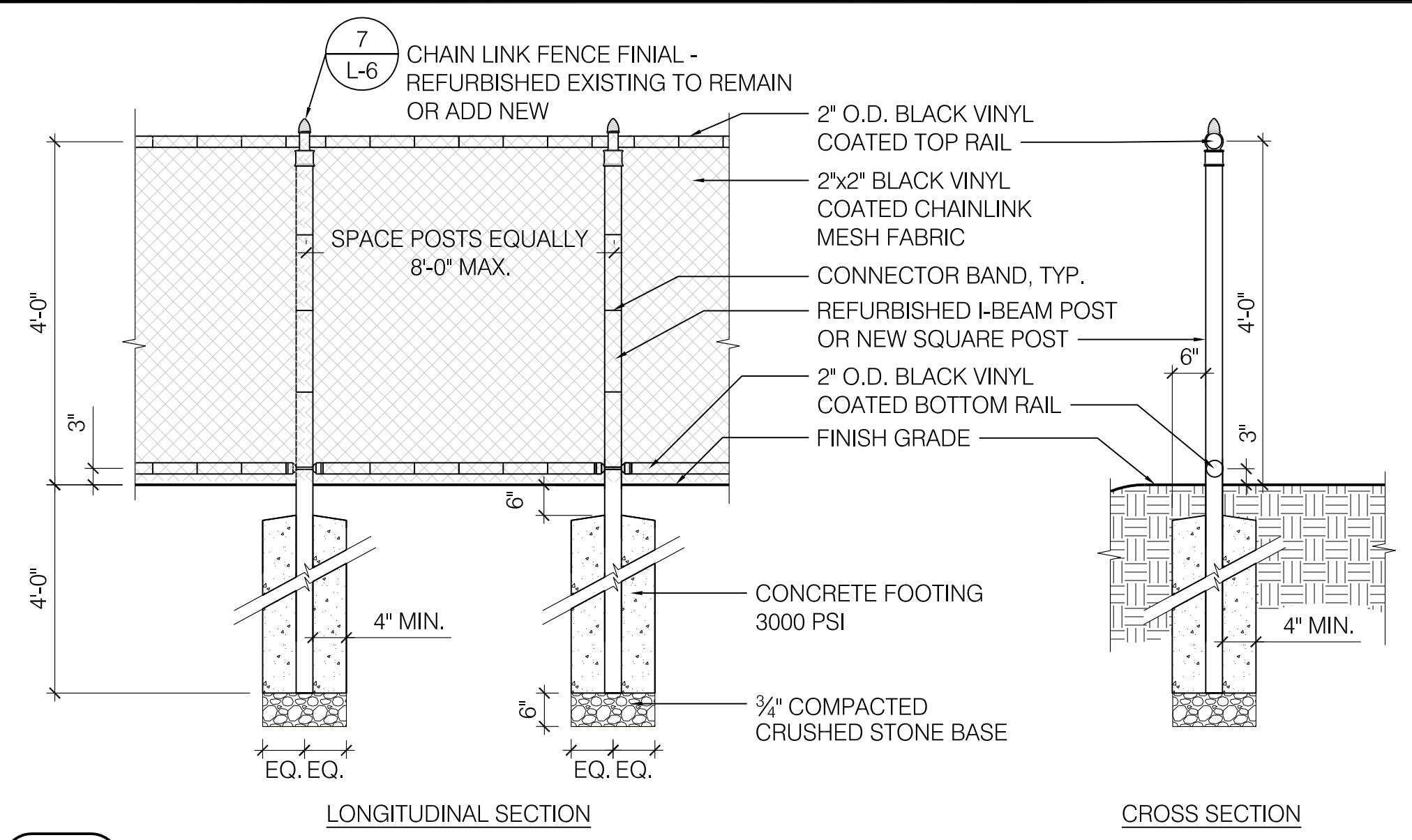
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Job No.	1502		
Designed by	KMDG	NOI Submission	10/27/16
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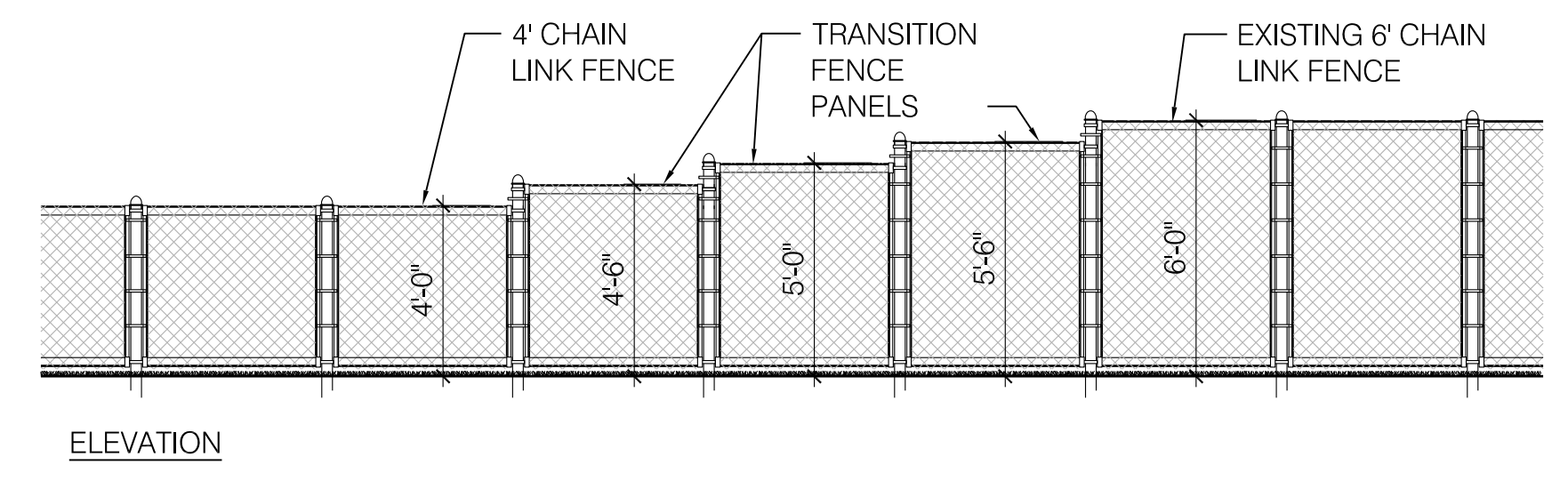
Client	CITY OF CAMBRIDGE, MASSACHUSETTS
Project	FRESH POND DRAINAGE IMPROVEMENTS COMMUNITY GARDENS
Drawing	COMMUNITY GARDEN - MATERIALS AND LAYOUT PLAN

Sheet	L-5
File No.	

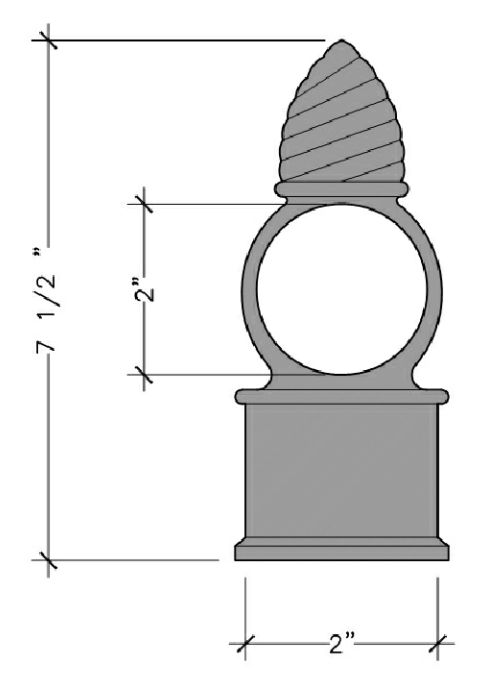
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5 4' HT. CHAIN LINK FENCE
SCALE: 1/2" = 1'-0"

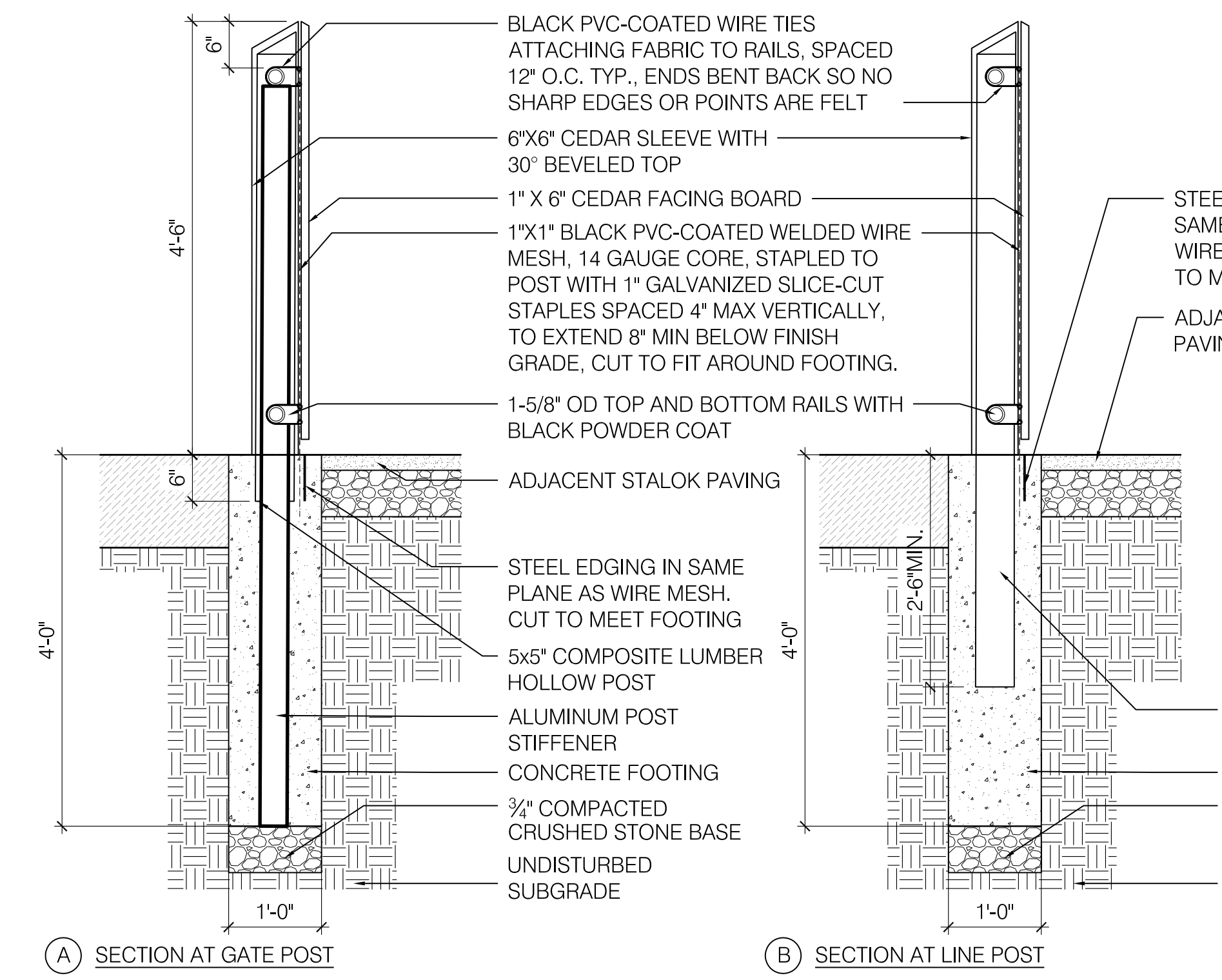


6 TRANSITION FENCE
SCALE: 1/4" = 1'-0"

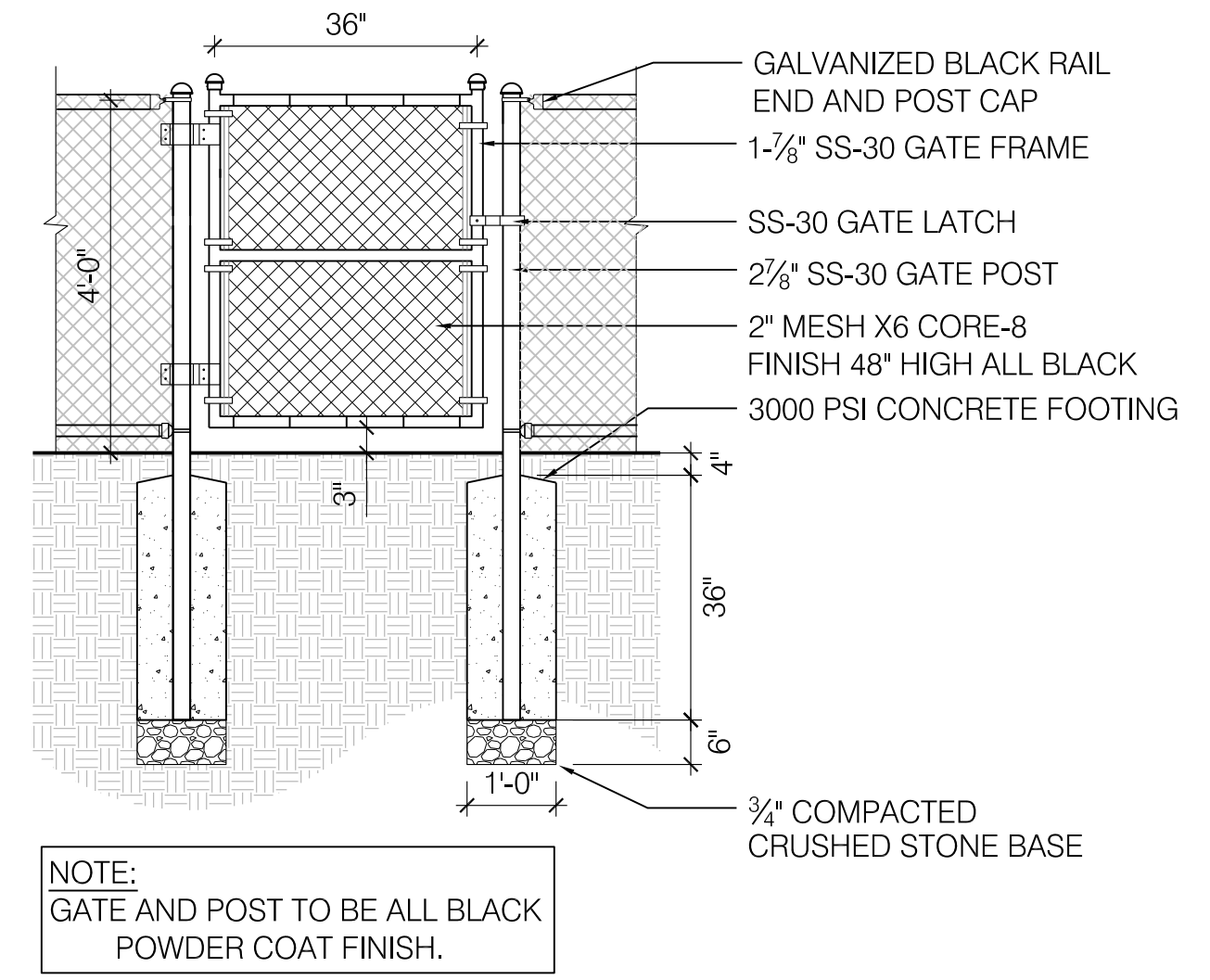


NOTES:
1. CONTRACTOR IS TO REMOVE AND REFURBISH ALL SQUARE BASE FENCE POST FINIALS PER SPECIFICATION SECTION 02800.
2. ANY NEW FINIALS REQUIRED TO COMPLETE THE PROJECT WILL REQUIRE REPRODUCTION THROUGH CASTING. SEE SPECIFICATION SECTION 02800 FOR SUBMITTAL AND MATERIAL REQUIREMENTS.

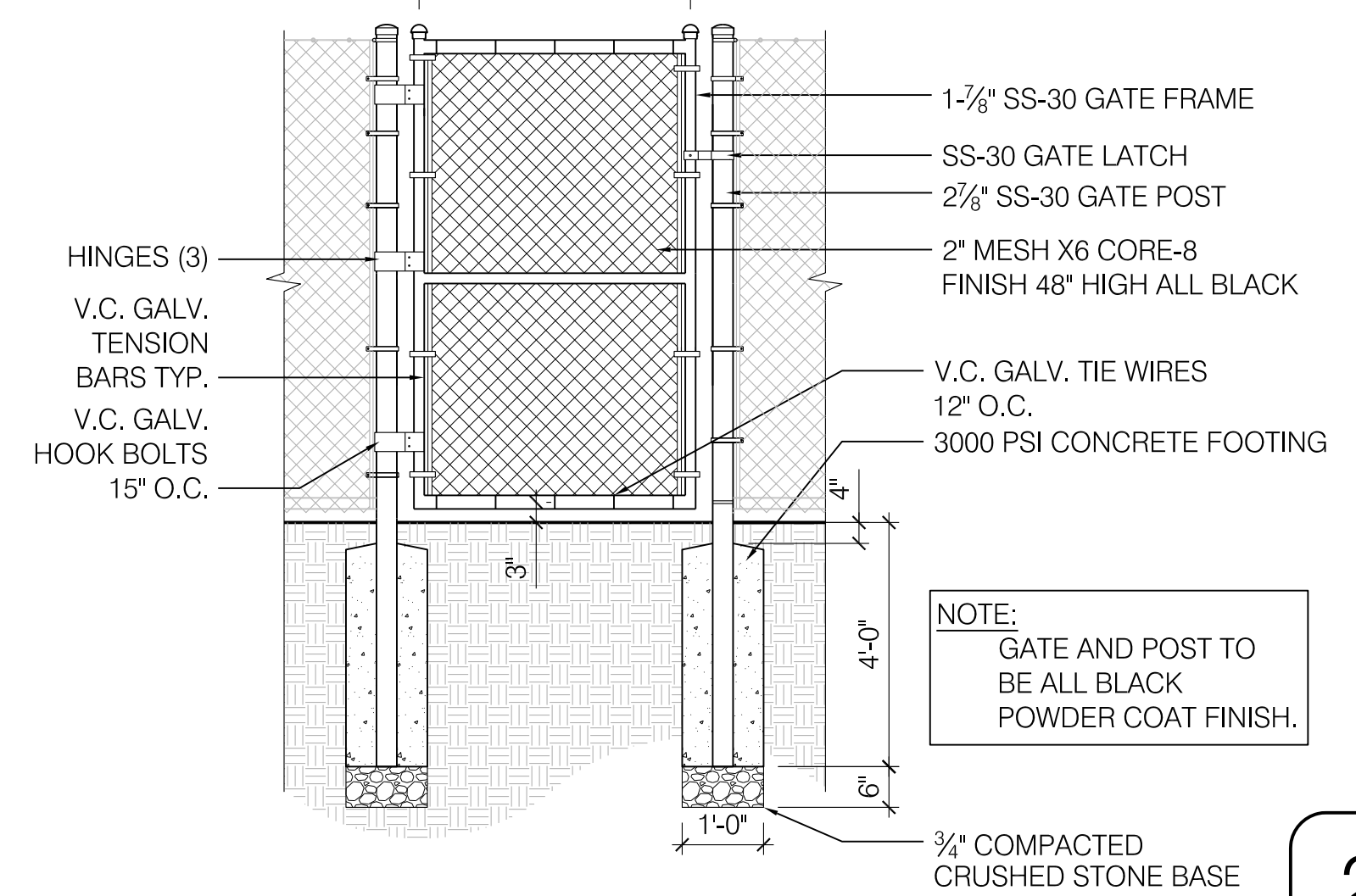
7 CHAIN LINK FENCE FINIAL
SCALE: N.T.S.



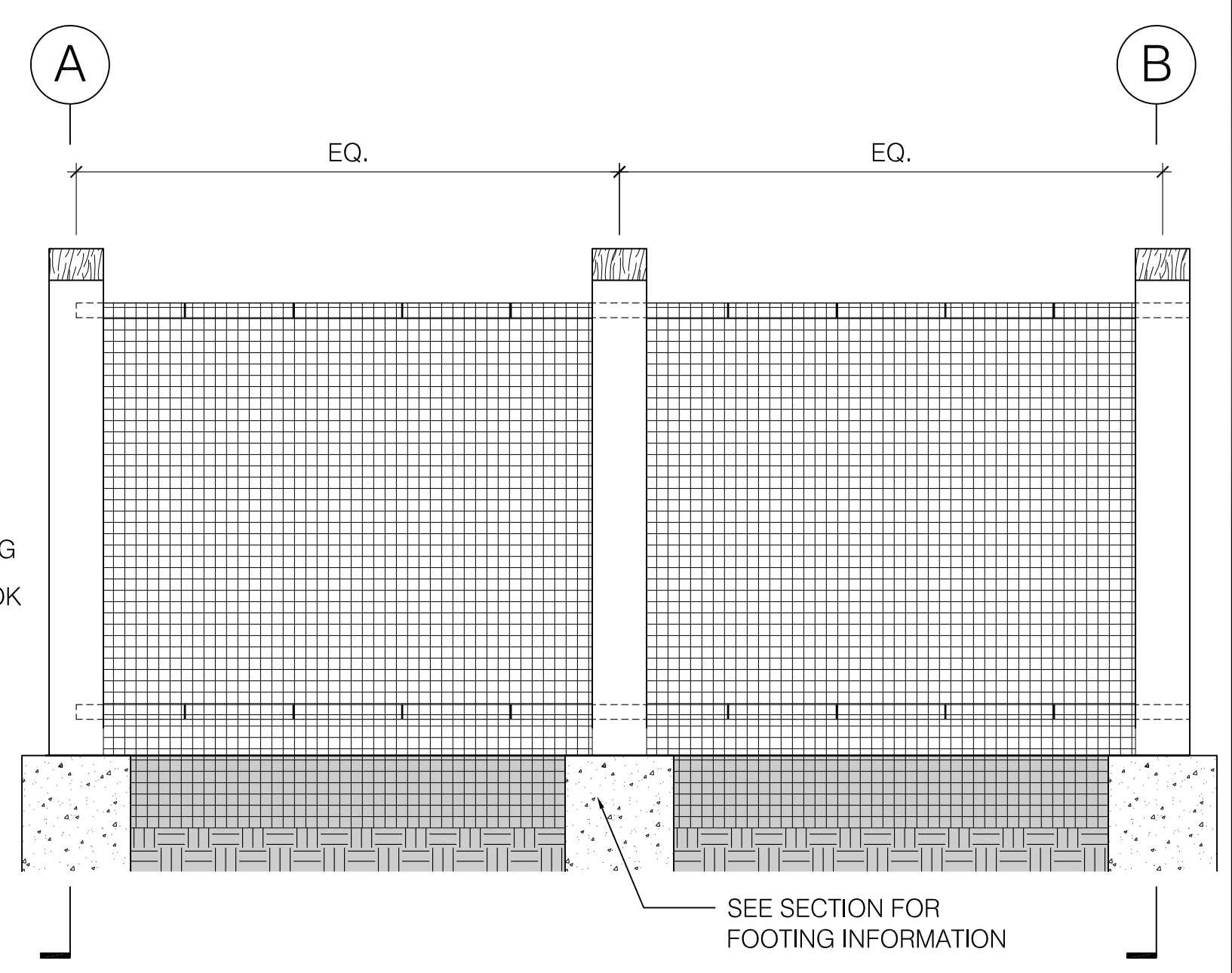
1 COMMUNITY GARDEN FENCE
SCALE: 3/4" = 1'-0"



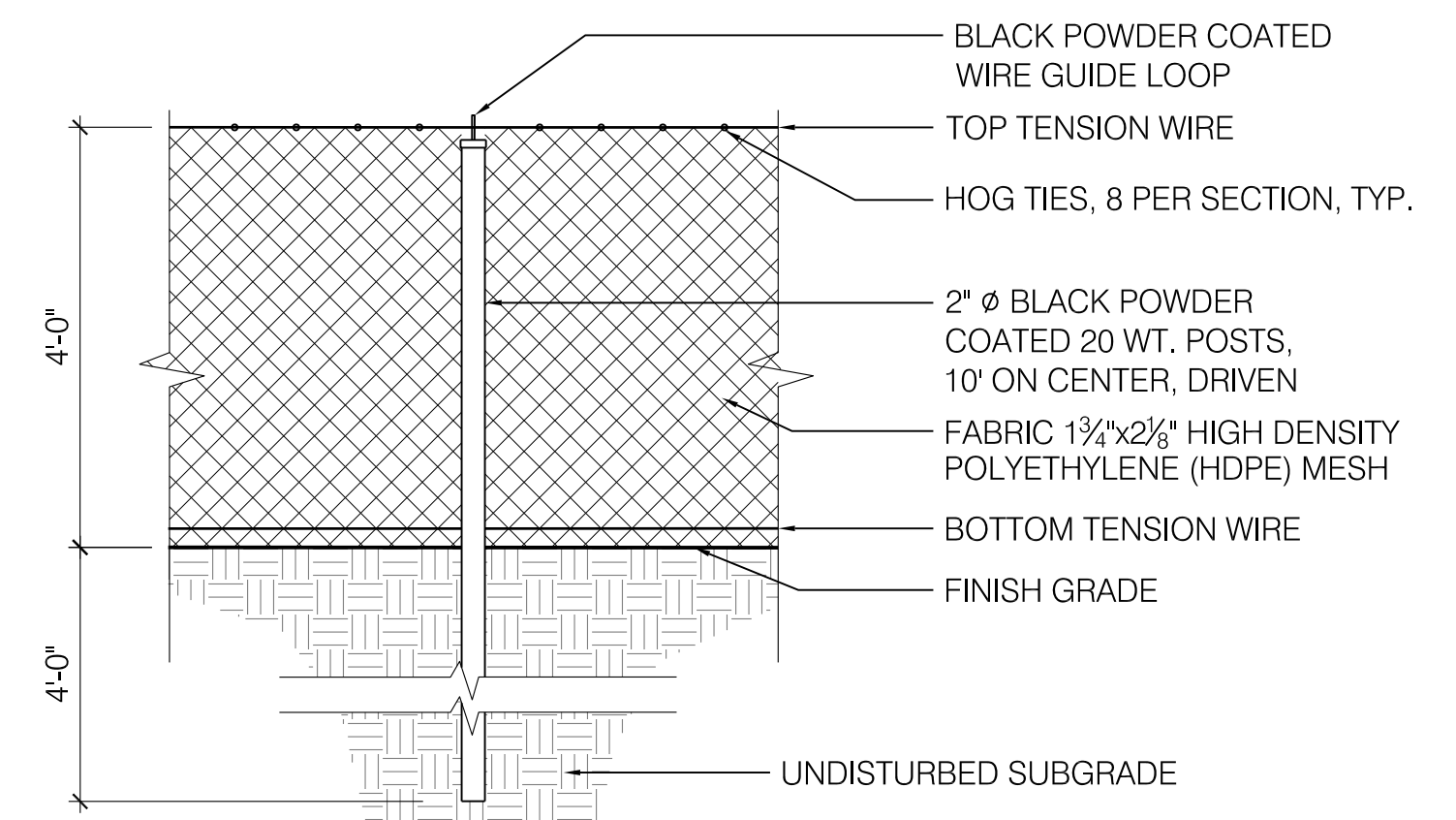
4 4' HT. CHAIN LINK FENCE GATE
SCALE: 1/2" = 1'-0"



3 LONG TERM PLANT ESTABLISHMENT FENCE GATE
SCALE: 1/2" = 1'-0"



2 LONG TERM PLANT ESTABLISHMENT FENCE
SCALE: 3/4" = 1'-0"



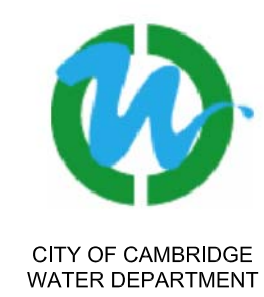
NOTE:
1. AT CHANGES IN DIRECTION, FENCE SHALL BE GENTLE CURVE, NOT EXCEEDING A RADIUS OF 170.
2. FOR TIGHTER RADII, FENCE SHALL BE DETAILED AS SHOWN IN PLAN: END CONDITION.

NOI

SCALE VERIFICATION
THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING
0 1"
IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY
ORIGINAL DRAWING SIZE IS 22 x 34

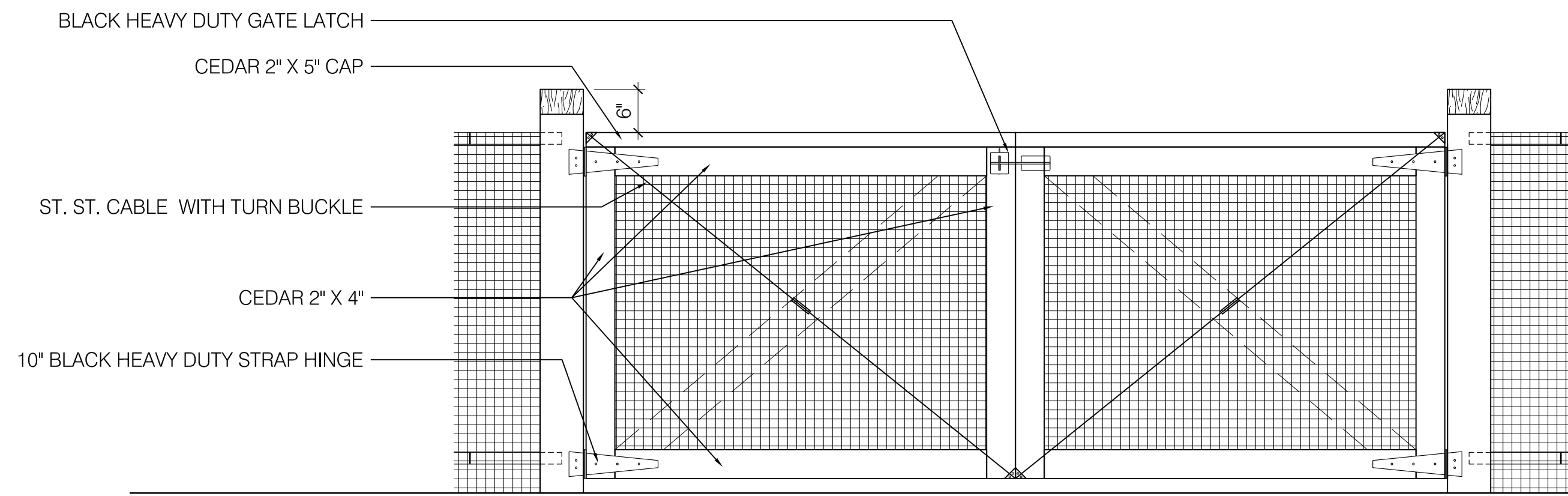


Scale	AS NOTED		
Date	OCTOBER 2016		
Job No.	1502		
Designed by	KMDG	2	NOI Submission
Drawn by	SK/EH	1	Landscape Plan Revisions
Checked by	KM	No.	Description
Approved by	KM		REVISIONS

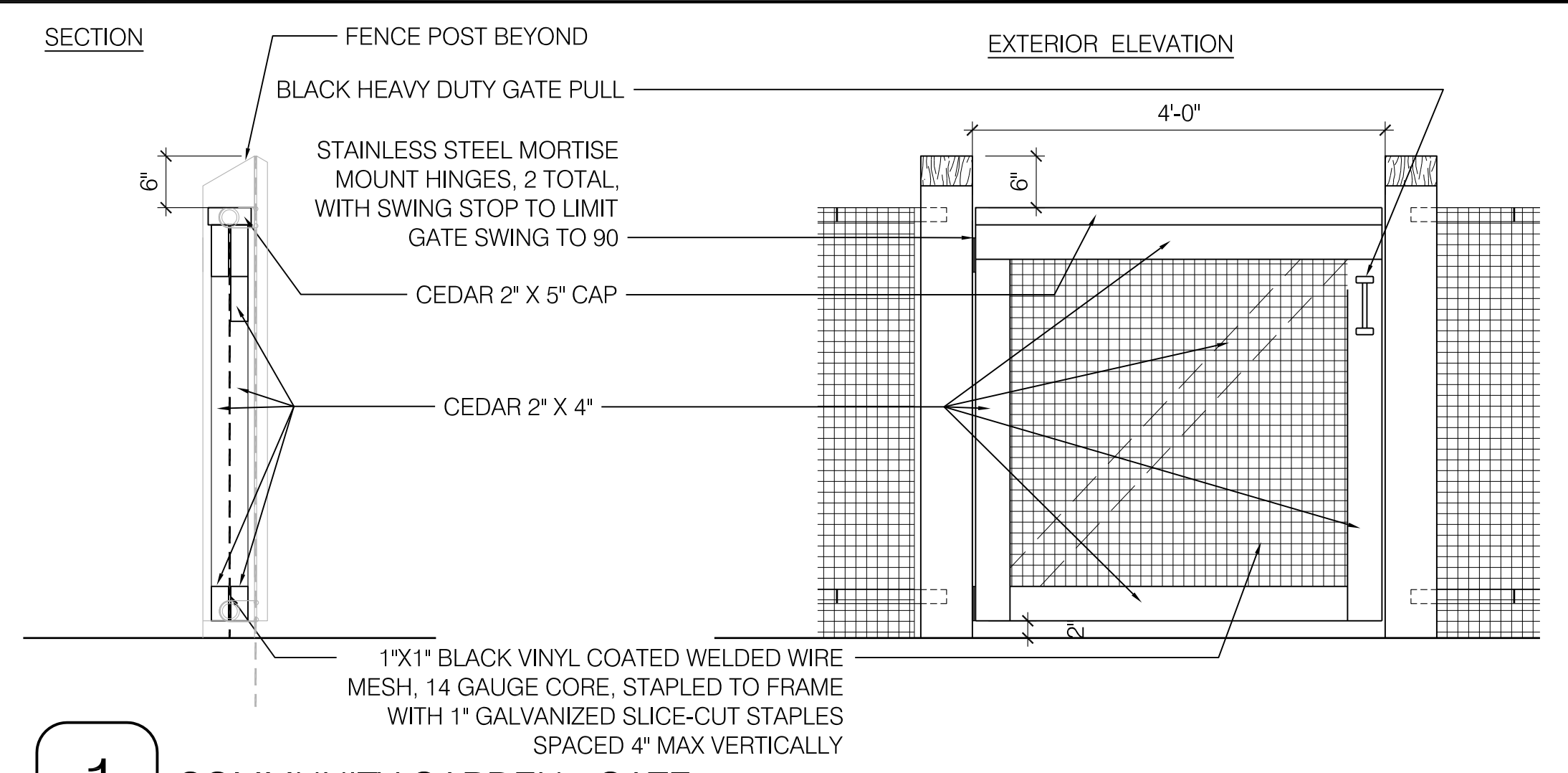


Client	CITY OF CAMBRIDGE, MASSACHUSETTS
Project	FRESH POND DRAINAGE IMPROVEMENTS COMMUNITY GARDENS
Drawing	FENCE DETAILS 1

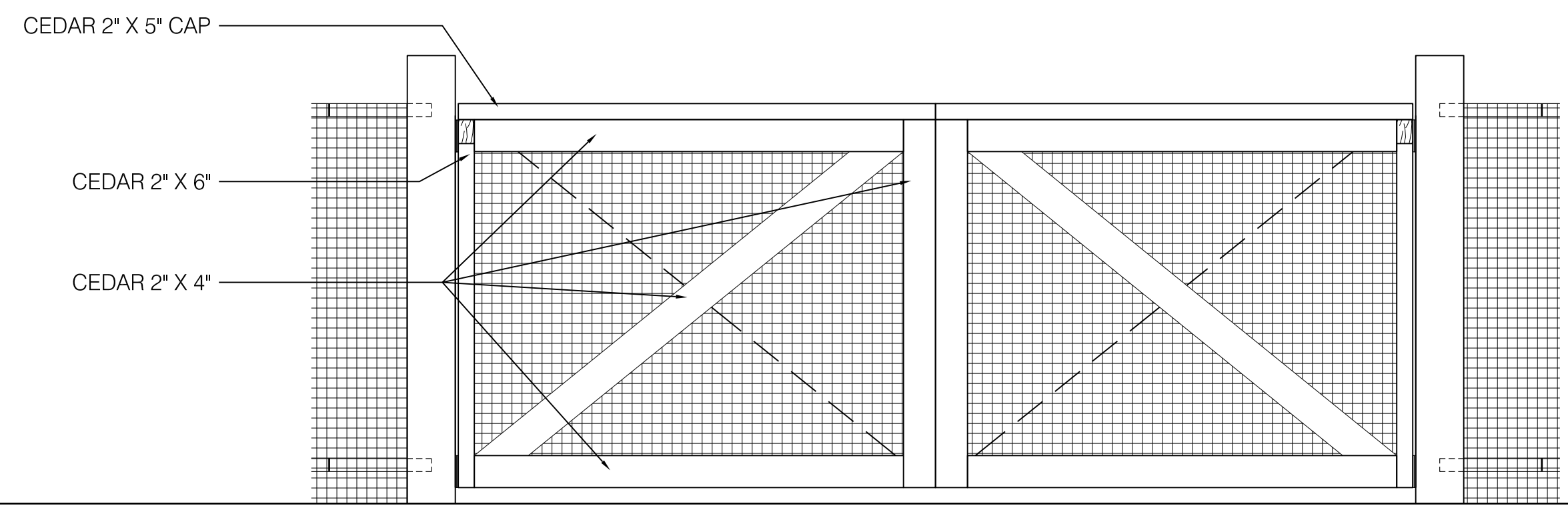
Sheet	L-6
File No.	



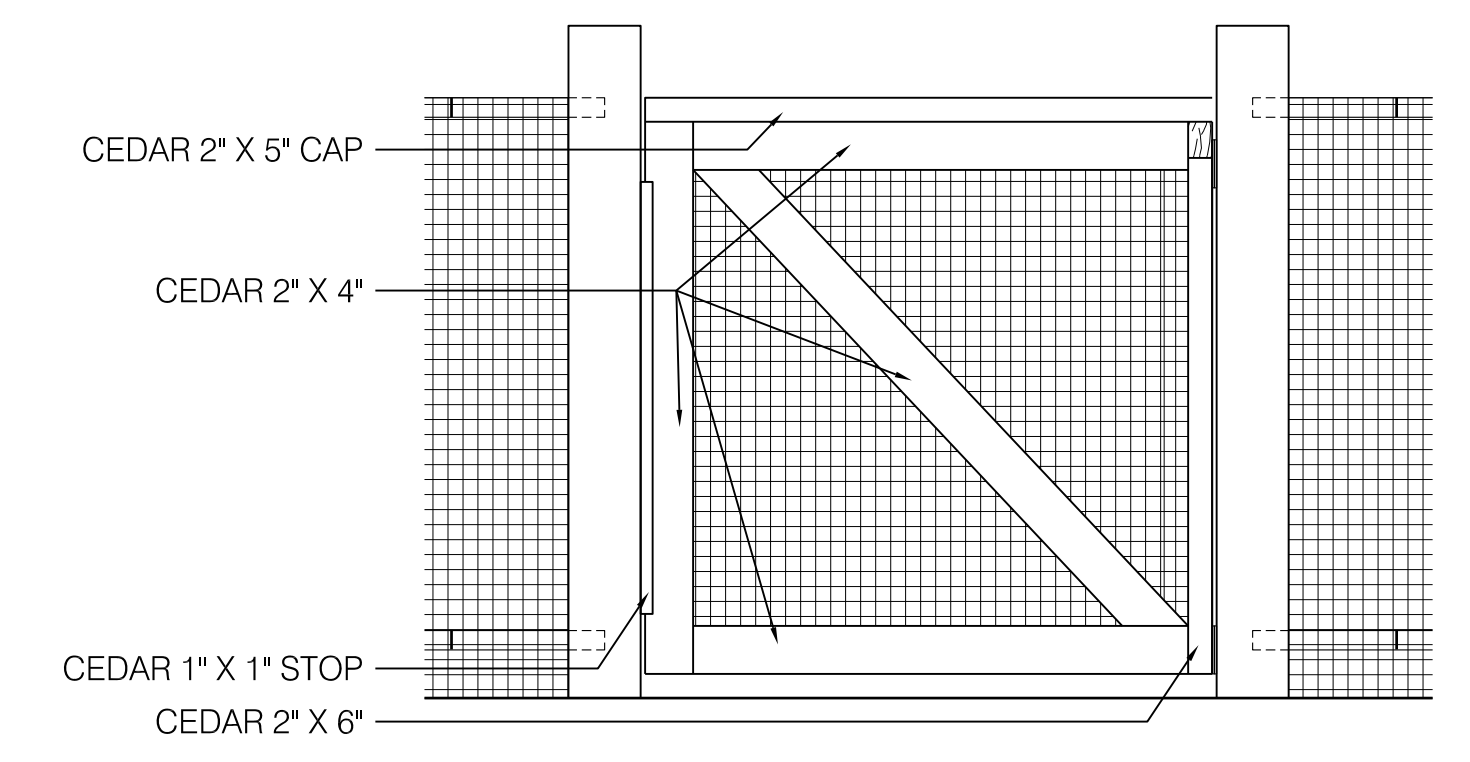
4 COMMUNITY GARDEN DOUBLE SWING GATE - EXTERIOR ELEVATION
SCALE: 3/4" = 1'-0"



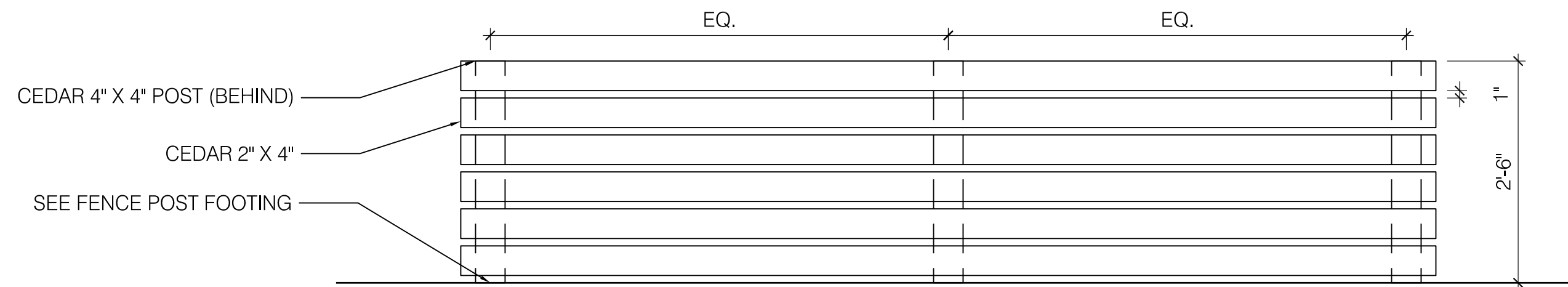
1 COMMUNITY GARDEN - GATE
SCALE: 3/4" = 1'-0"



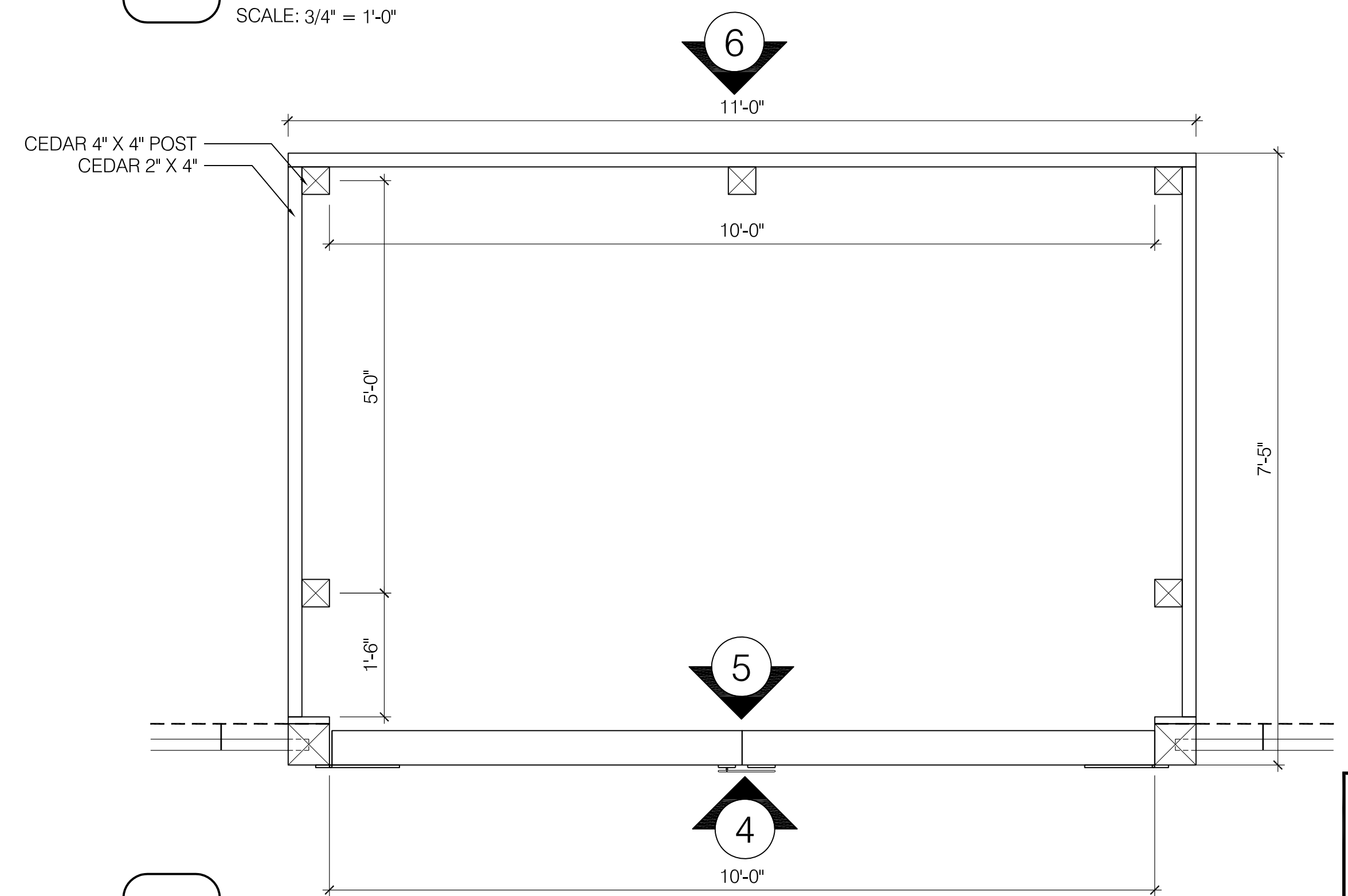
5 COMMUNITY GARDEN DOUBLE SWING GATE - INTERIOR ELEVATION
SCALE: 3/4" = 1'-0"



2 COMMUNITY GARDEN GATE - INTERIOR ELEVATION
SCALE: 3/4" = 1'-0"



6 COMPOST ENCLOSURE - REAR ELEVATION
SCALE: 3/4" = 1'-0"



3 COMPOST ENCLOSURE - PLAN
SCALE: 3/4" = 1'-0"

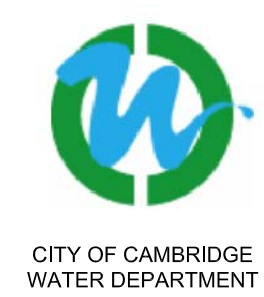
NOI

SCALE VERIFICATION
THIS BAR IS 1 INCH IN LENGTH
ON ORIGINAL DRAWING
0 1"
IF IT'S NOT 1 INCH ON THIS
SHEET ADJUST YOUR
SCALES ACCORDINGLY
ORIGINAL DRAWING SIZE IS 22 x 34

PLOT DATE=10/26/2016 9:30:36 AM USER=EMILY HUNT FILENAME=K:\projects\kmdg_1511502_fresh_pond_community_gardens\CAD\L7_FENCE DETAILS 2.dwg

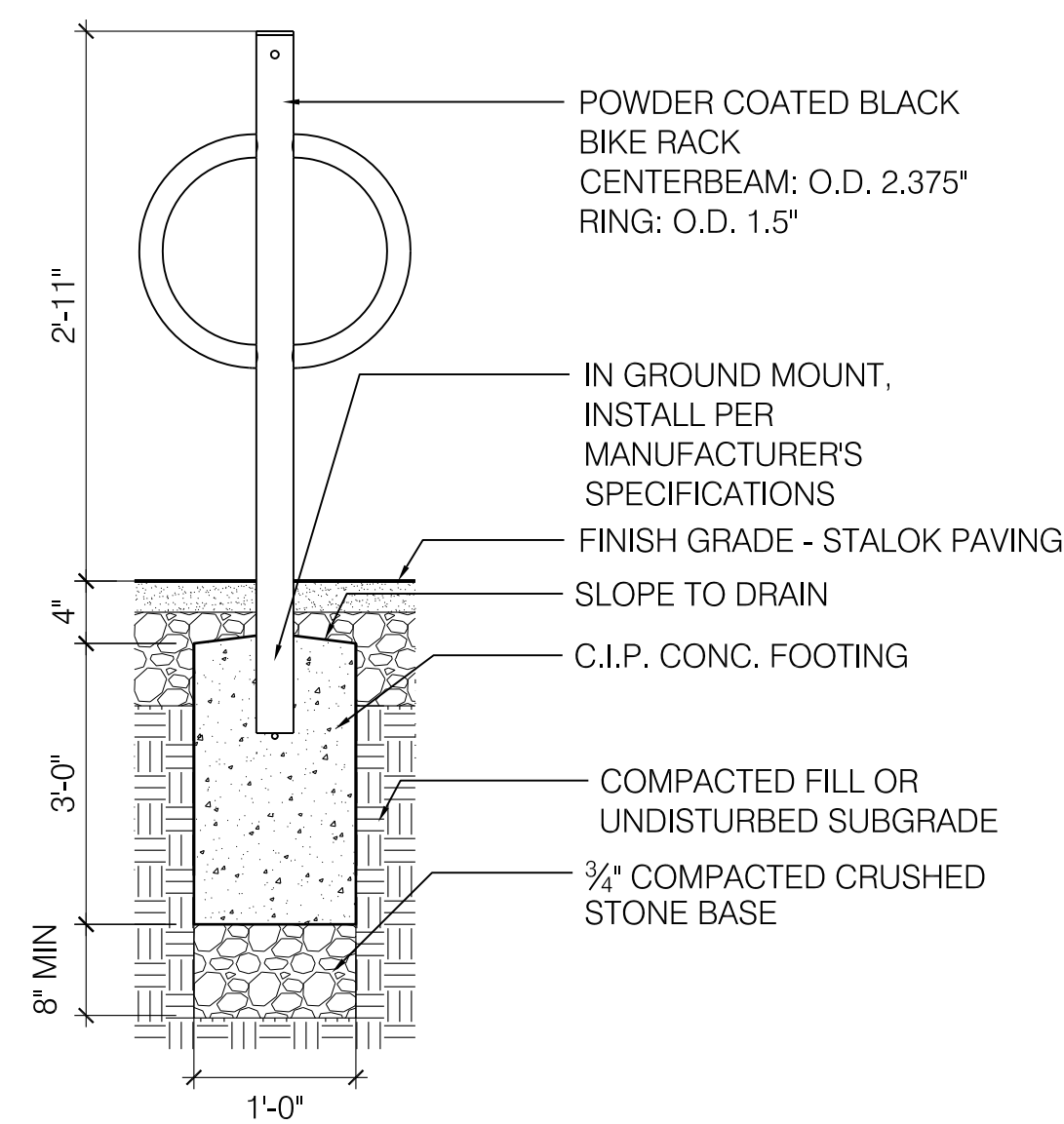


Scale	AS NOTED		
Date	OCTOBER 2016		
Job No.	1502		
Designed by	KMDG	2	NOI Submission 10/27/16
Drawn by	SK/EH	1	Landscape Plan Revisions 02/15/16
Checked by	KM	No.	Description Date
Approved by	KM		REVISIONS

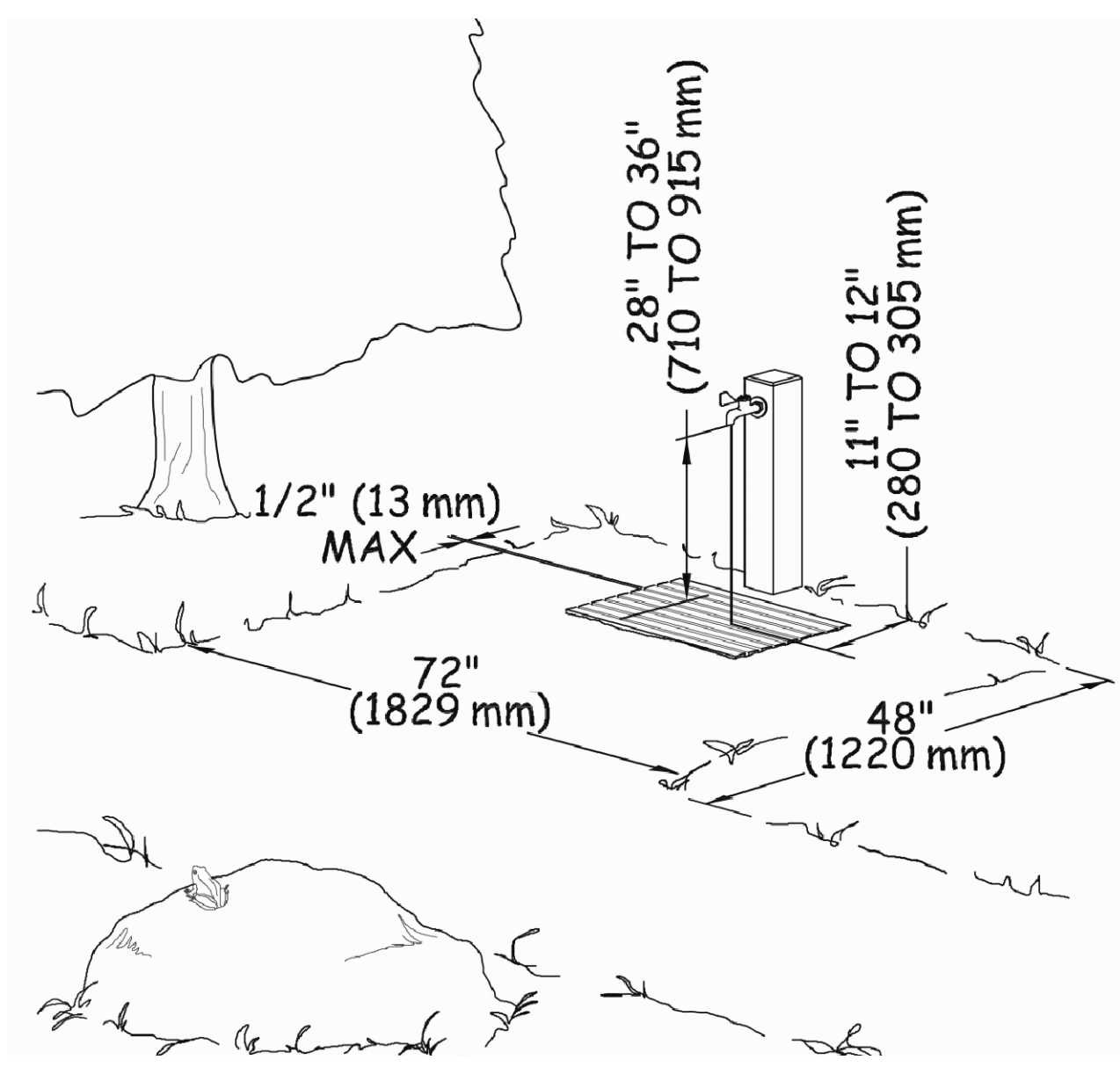


Client	CITY OF CAMBRIDGE, MASSACHUSETTS
Project	FRESH POND DRAINAGE IMPROVEMENTS COMMUNITY GARDENS
Drawing	FENCE DETAILS 2

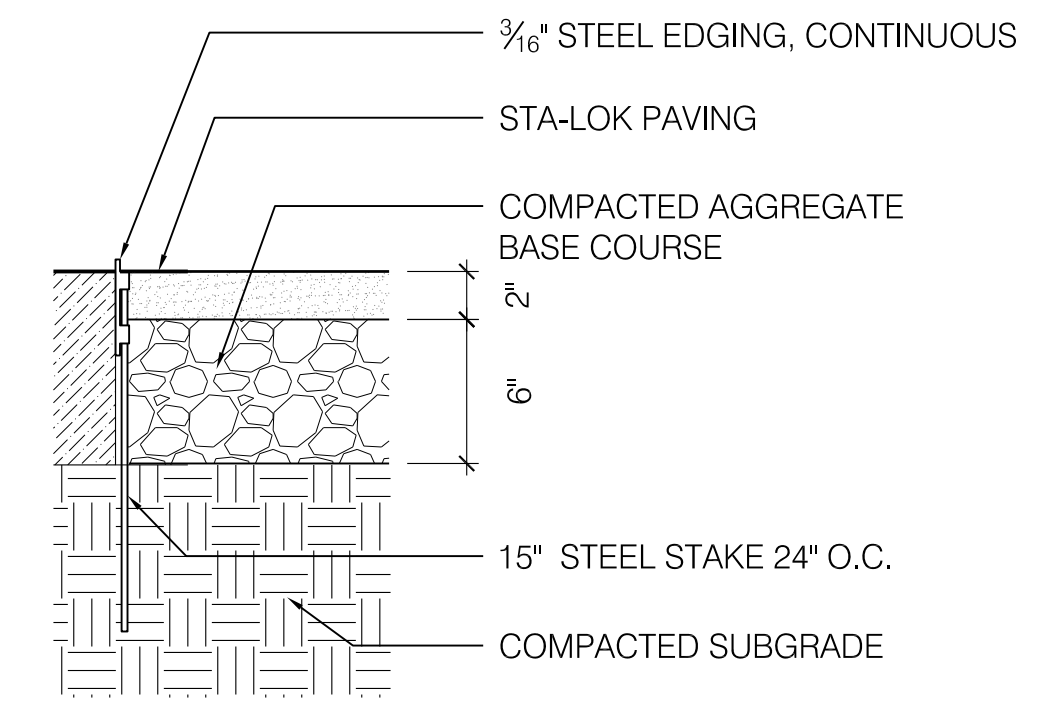
Sheet	L-7
File No.	



4 STEEL BIKE RACK
SCALE: 1" = 1'-0"

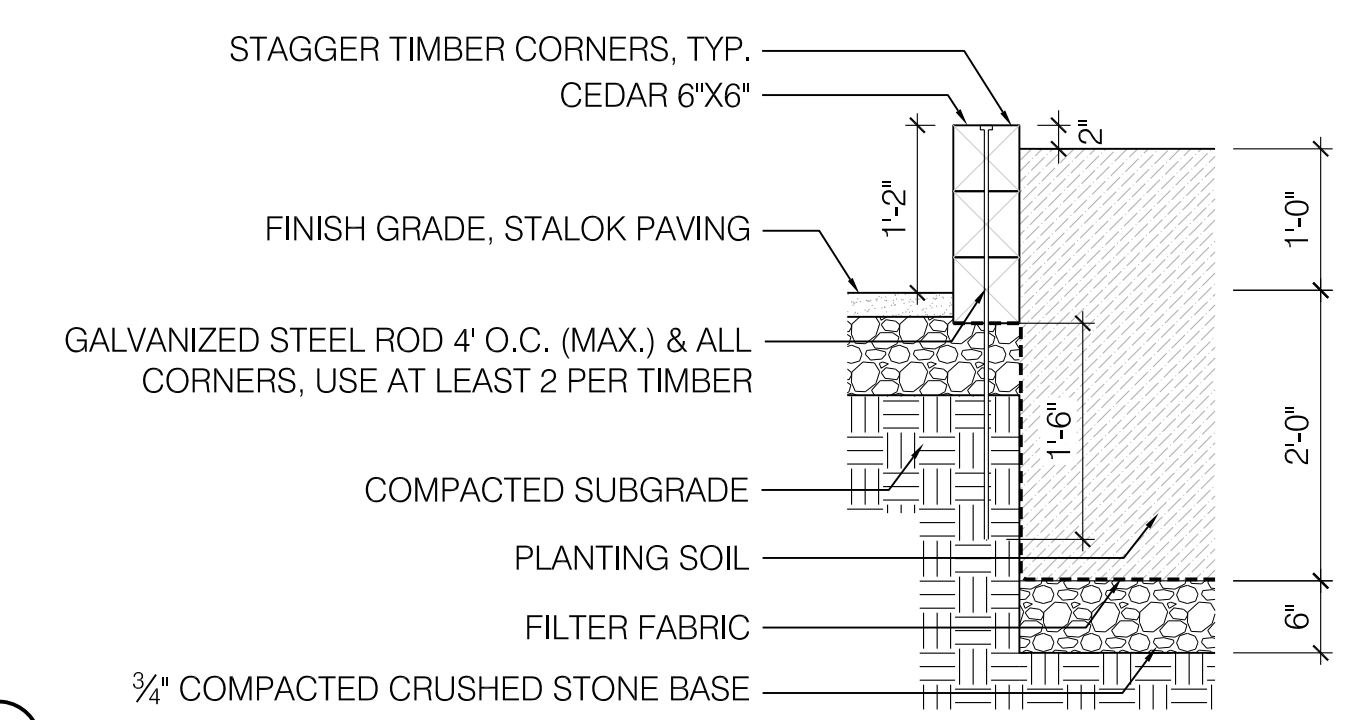


5 YARD HYDRANT
SCALE: N.T.S.

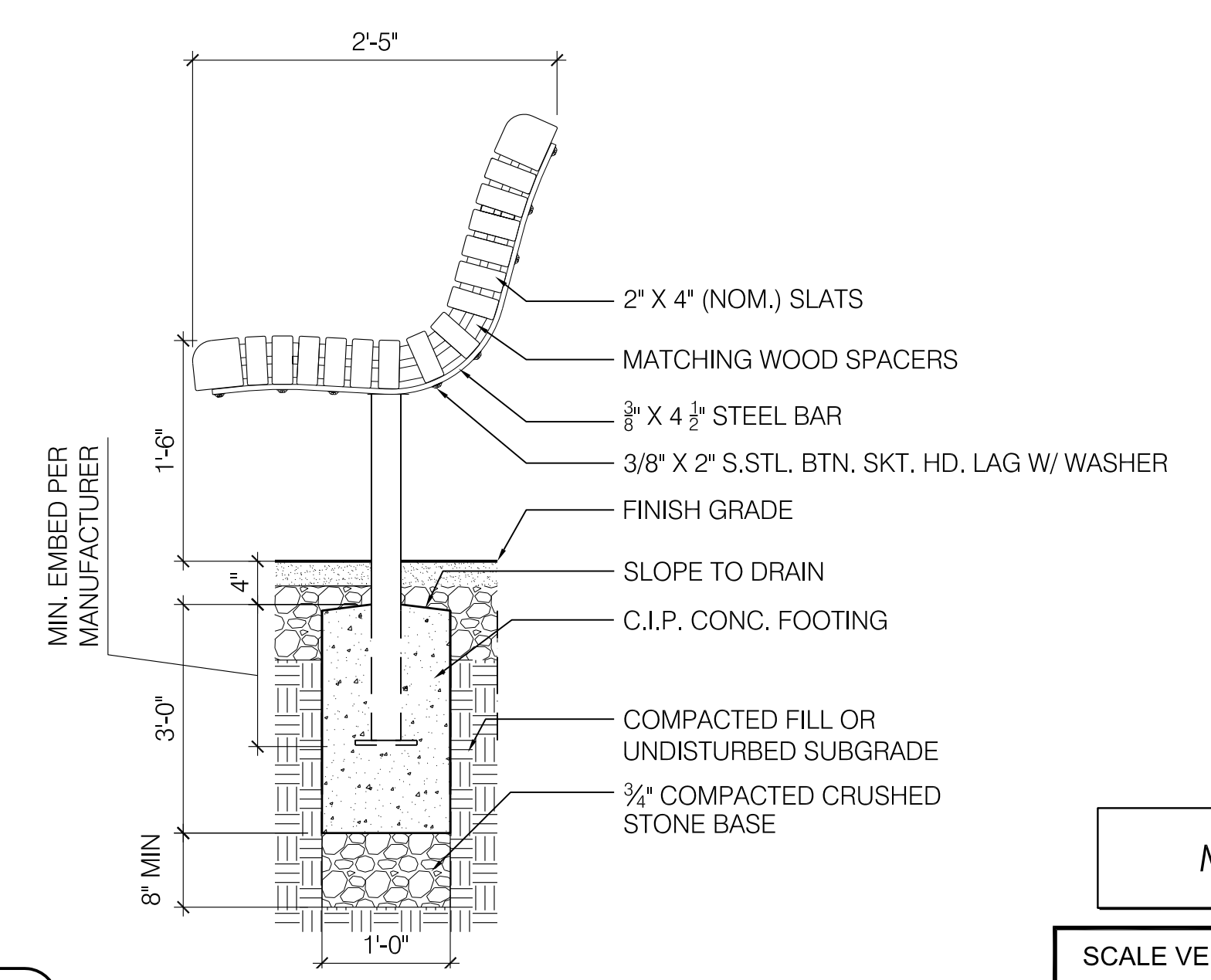


NOTES:
1. SLOPE STA-LOK AREAS 2% TO DRAIN OR AS SHOWN IN GRADING PLAN.
2. OWNER'S REPRESENTATIVE TO APPROVE SUBGRADE CONDITIONS PRIOR TO INSTALLATION OF STA-LOK SURFACING.

1 STA-LOK AGGREGATE SURFACING
SCALE: 1 1/2" = 1'-0"



2 RAISED PLANTER
SCALE: 3/4" = 1'-0"



3 BENCH
SCALE: 1" = 1'-0"

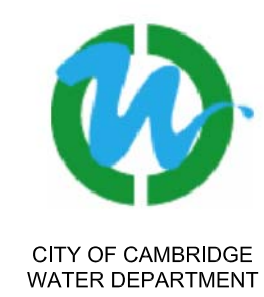
NOI

SCALE VERIFICATION
THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING
0 1"
IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY
ORIGINAL DRAWING SIZE IS 22 x 34

PLOT DATE=10/26/2016 9:31:56 AM USER=EMILY HUNT FILENAME=K3_projects\kmdg_1511502_fresh_pond_community_gardens\CAD\18_community_garden_details_1.dwg



Scale	AS NOTED			
Date	OCTOBER 2016			
Job No.	1502			
Designed by	KMDG	2	NOI Submission	10/27/16
Drawn by	SK/EH	1	Landscape Plan Revisions	02/15/16
Checked by	KM	No.	Description	Date
Approved by	KM		REVISIONS	

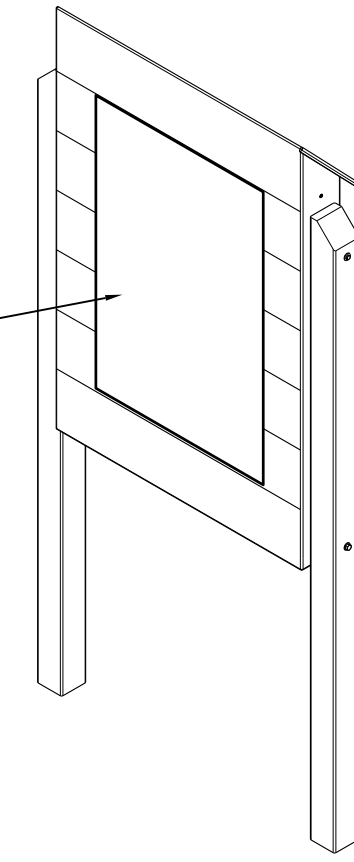


Client	CITY OF CAMBRIDGE, MASSACHUSETTS
Project	FRESH POND DRAINAGE IMPROVEMENTS COMMUNITY GARDENS
Drawing	COMMUNITY GARDEN DETAILS 1

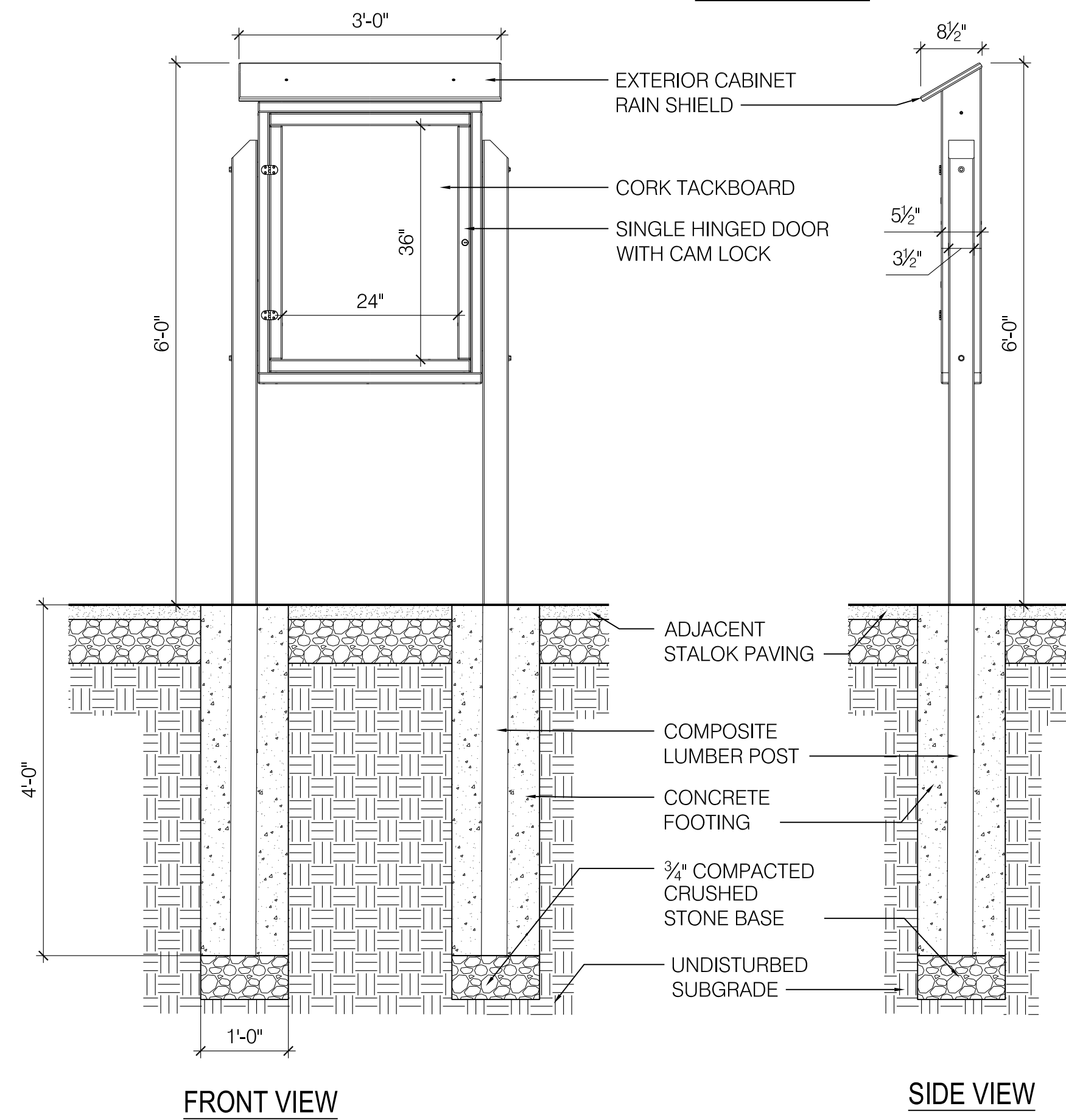
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File No.	

PLOT DATE=10/26/2016 9:33:12 AM USER=EMILY HUNT FILENAME=K3_projects\kmdg_151502_fresh_pond_community_gardens\CAD\L-9_COMMUNITY_GARDEN_DETAILS_2.dwg

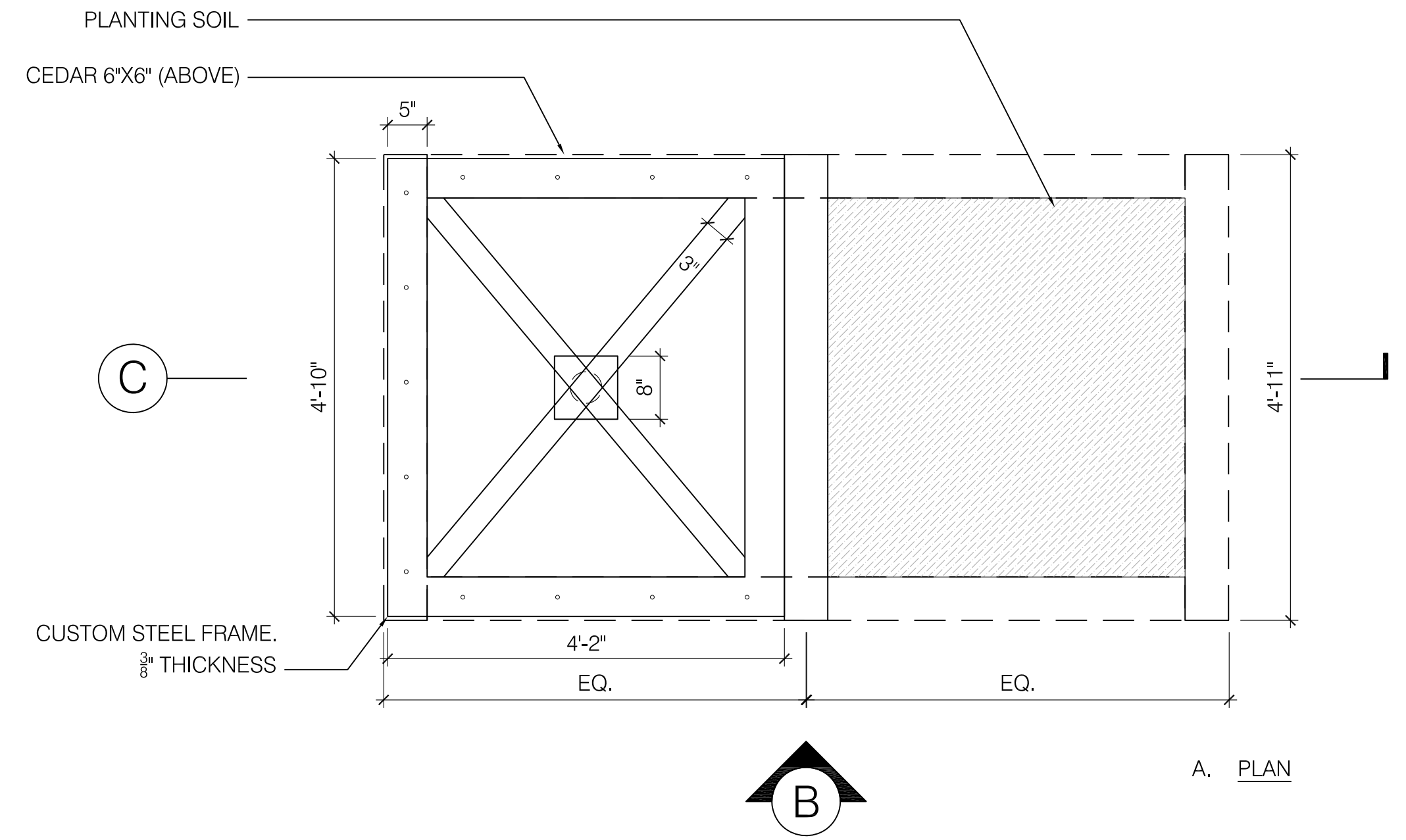
24"x32" 0.080 GAUGE ALUMINUM SIGN WITH LAMINATED DIGITAL PRINT. GRAPHIC TO BE PROVIDED BY CITY OF CAMBRIDGE



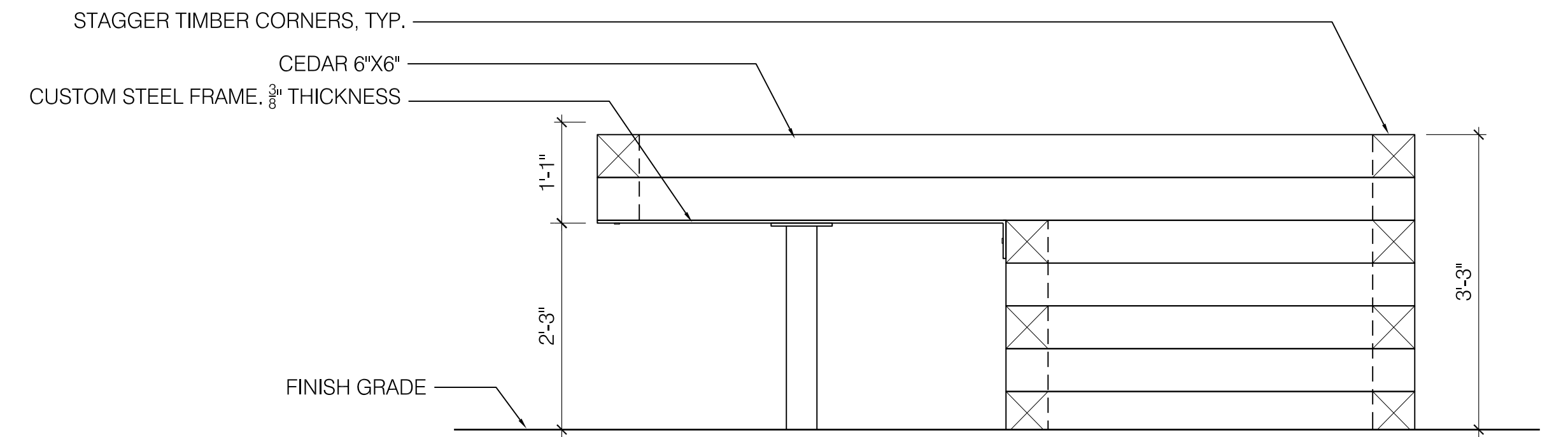
ISOMETRIC VIEW - BACK OF SIGN



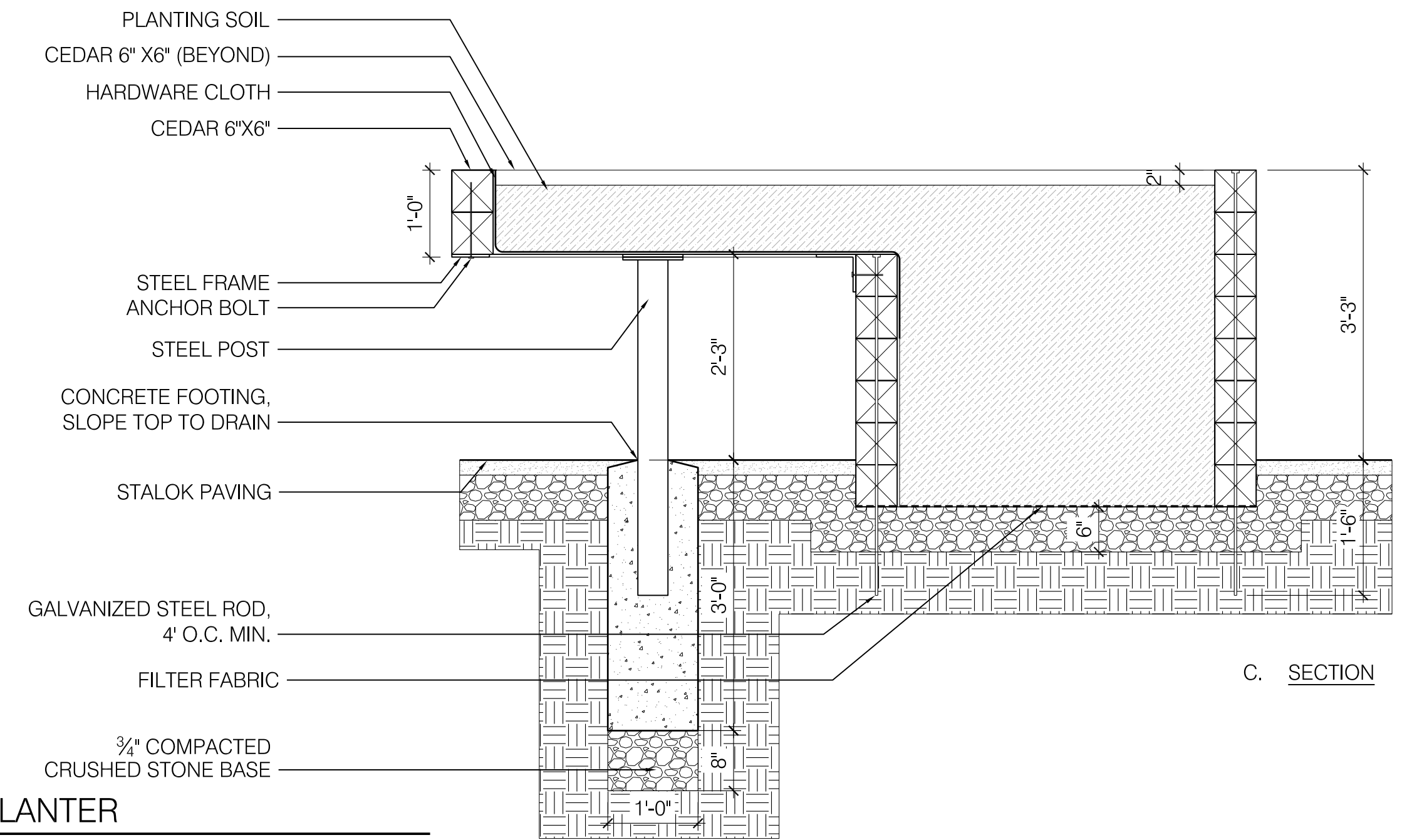
2 BULLETIN BOARD
SCALE: 3/4" = 1'-0"



A. PLAN



B. ELEVATION



C. SECTION

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

NOI

SCALE VERIFICATION
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0 1"
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Scale	OCTOBER 2016		
Date	1502		
Job No.	2	NOI Submission	10/27/16
Designed by	SK/EH	1	Landscape Plan Revisions
Drawn by	KM	No.	Description
Checked by	KM		Date
Approved by	KM		REVISIONS



Client CITY OF CAMBRIDGE, MASSACHUSETTS
Project FRESH POND DRAINAGE IMPROVEMENTS COMMUNITY GARDENS
Drawing COMMUNITY GARDEN DETAILS 2

Sheet L-9
File No.