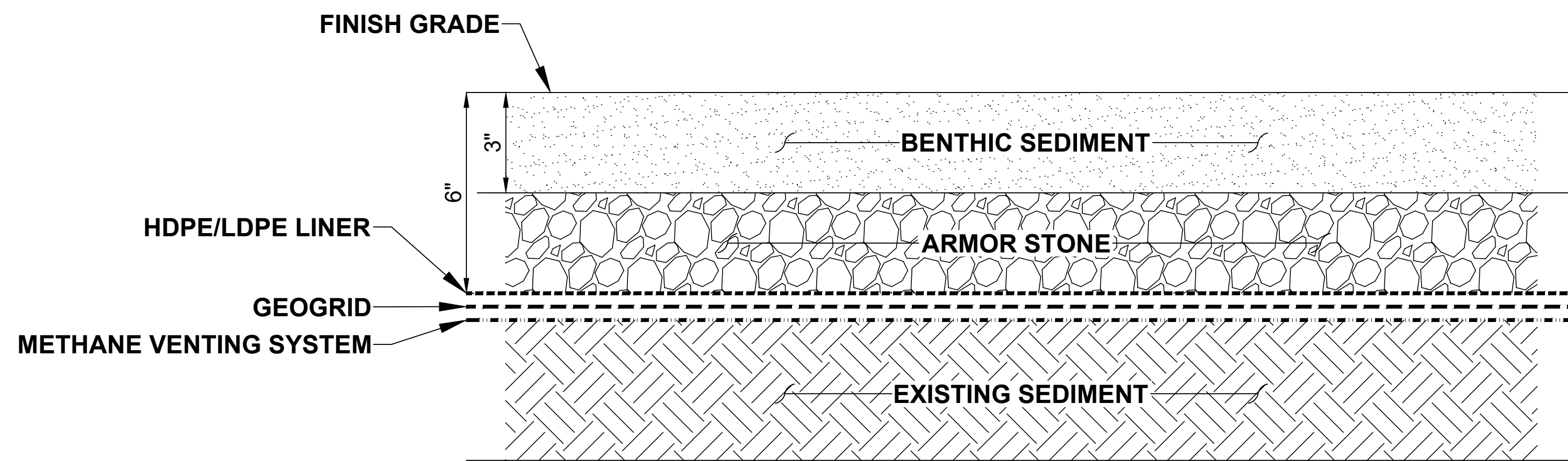
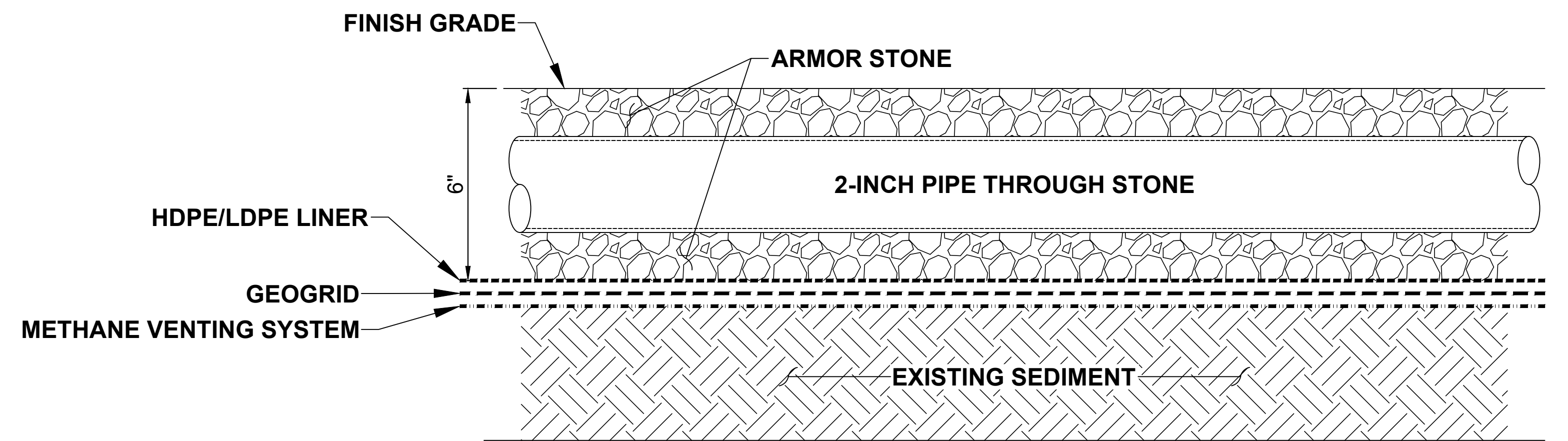


NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988.



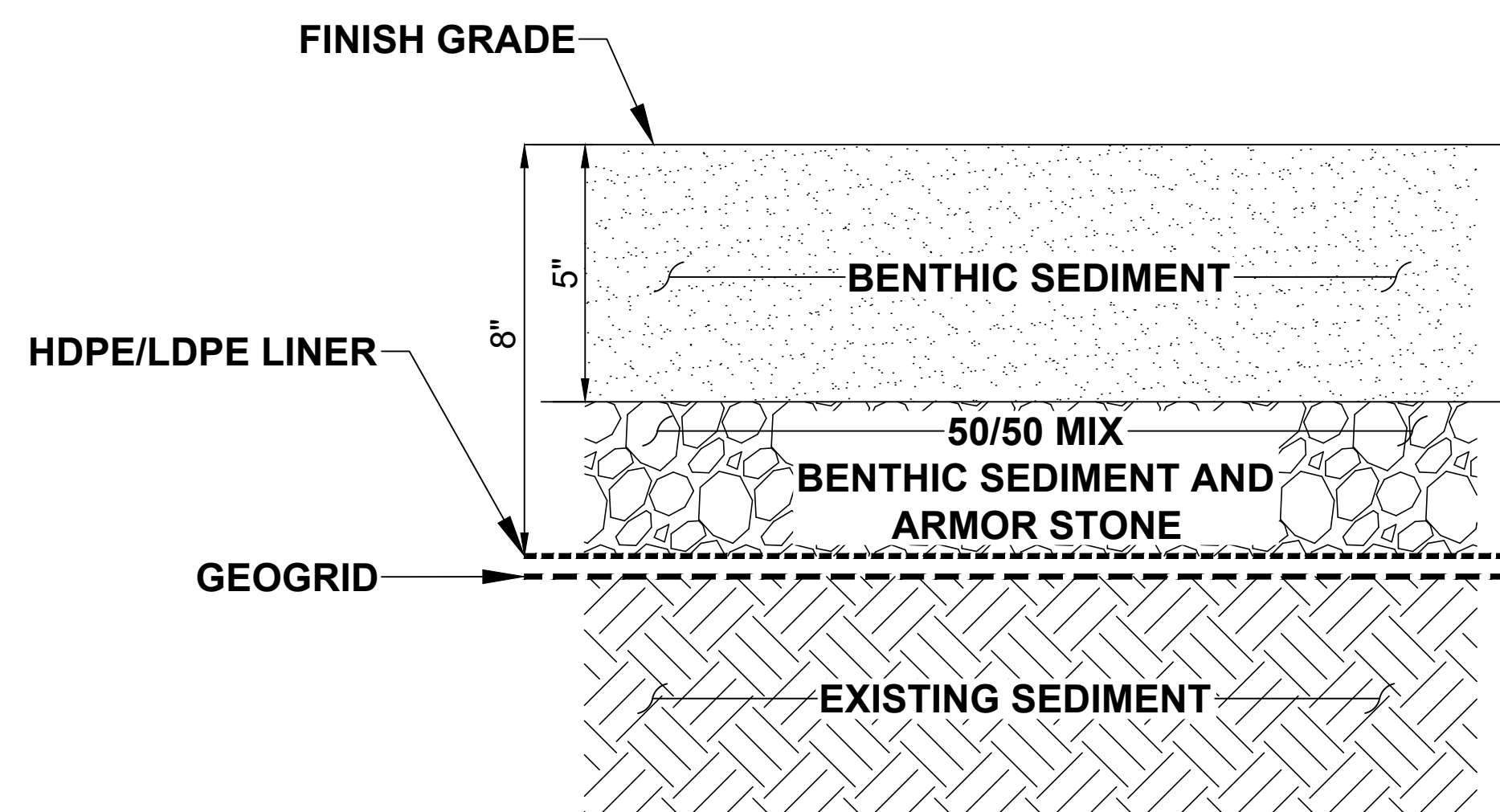
1 TYPICAL DETAIL
C-106 LINER SYSTEM NO SCALE



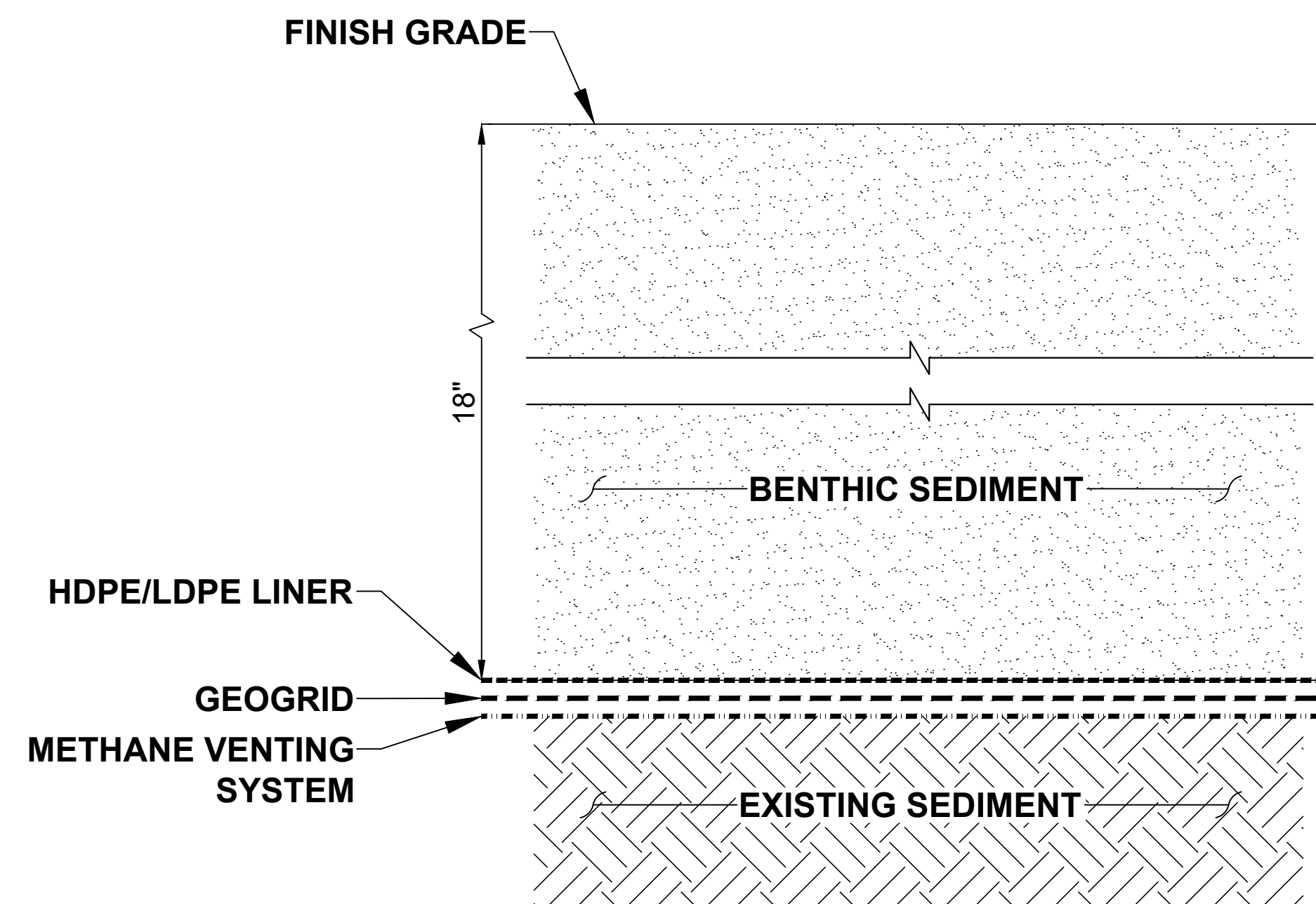
2 TYPICAL DETAIL
C-106 LINER SYSTEM AROUND WATER QUALITY PIPES NO SCALE

NOTE:

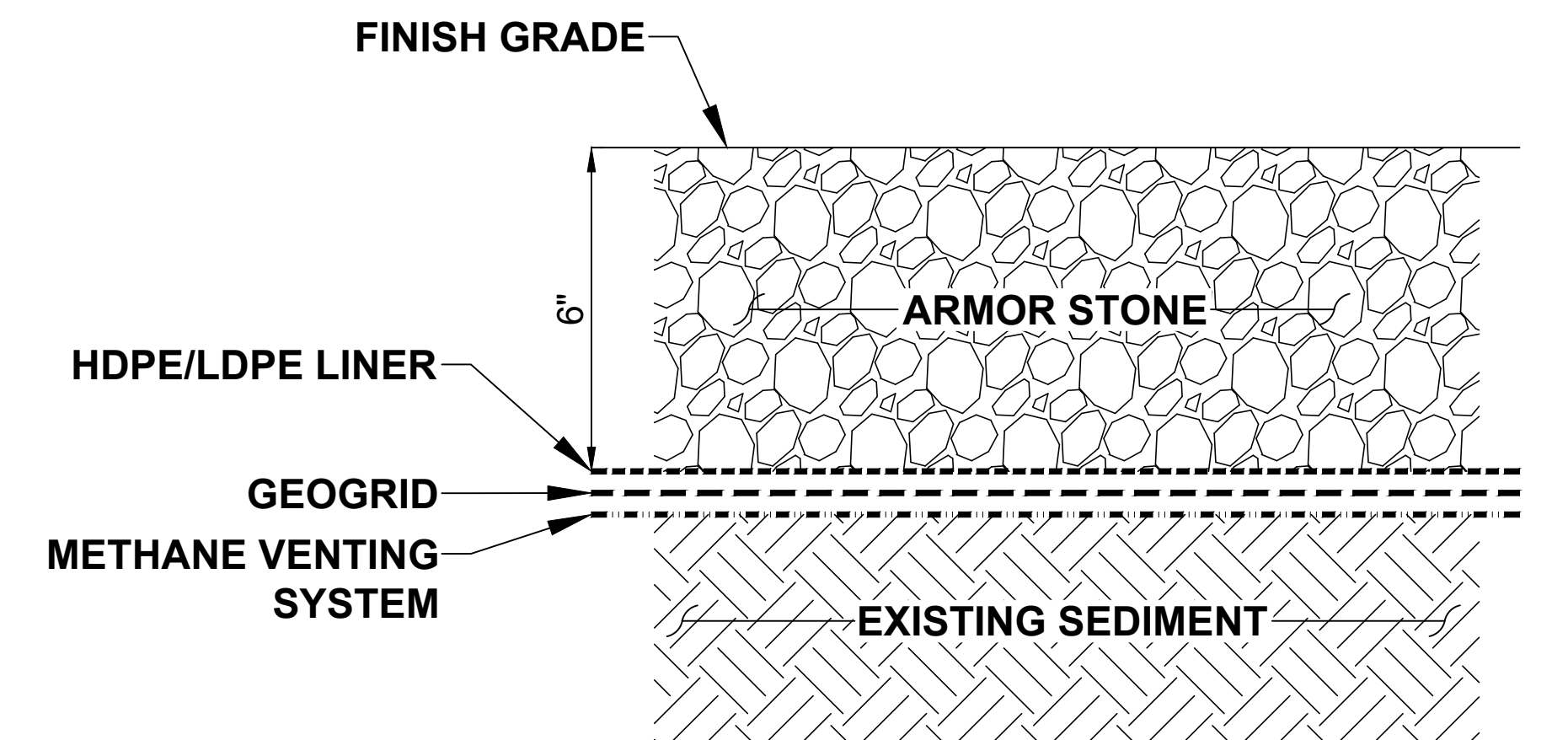
1. ARMOR STONE TRENCH FOR PIPING TO BE 2 FEET WIDE.



3 TYPICAL DETAIL
C-106 LINER SYSTEM ON VEGETATED BANK NO SCALE



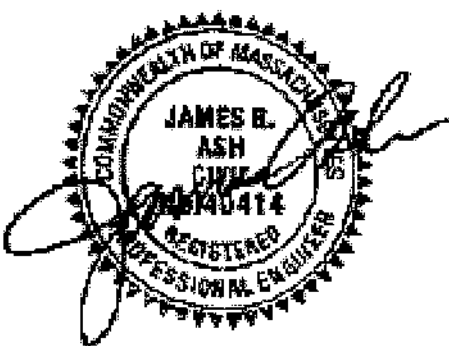
4 TYPICAL DETAIL
C-106 LINER SYSTEM IN HIBERNACULA NO SCALE



5 TYPICAL DETAIL
C-106 LINER SYSTEM AT DOCK NO SCALE

BID SET - NOT FOR CONSTRUCTION

MORIN, JOE B. WorkingNEWBURYPORT MA, CITY OF 2101333, Bartlett Mall Frog Pond, MA, CITY OF 2101333, Liner Sections and Details.dwg - 7/26/2023



CITY OF NEWBURYPORT
60 PLEASANT STREET
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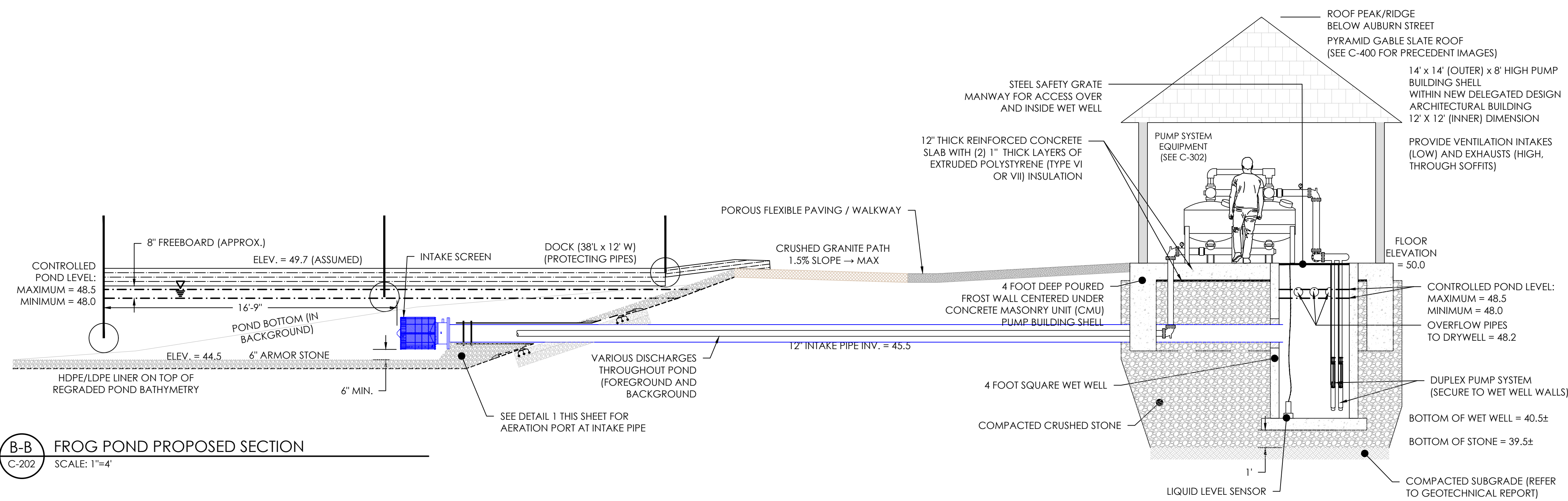
GEI Consultants
GEI CONSULTANTS, INC.
400 UNICORN PARK DRIVE
WOBURN, MA 01801
(781)721-4000

Rev No	Date	Drawn	Chkd	Description
REVO	08/01/23	K.W.		BID SET
				Revisions

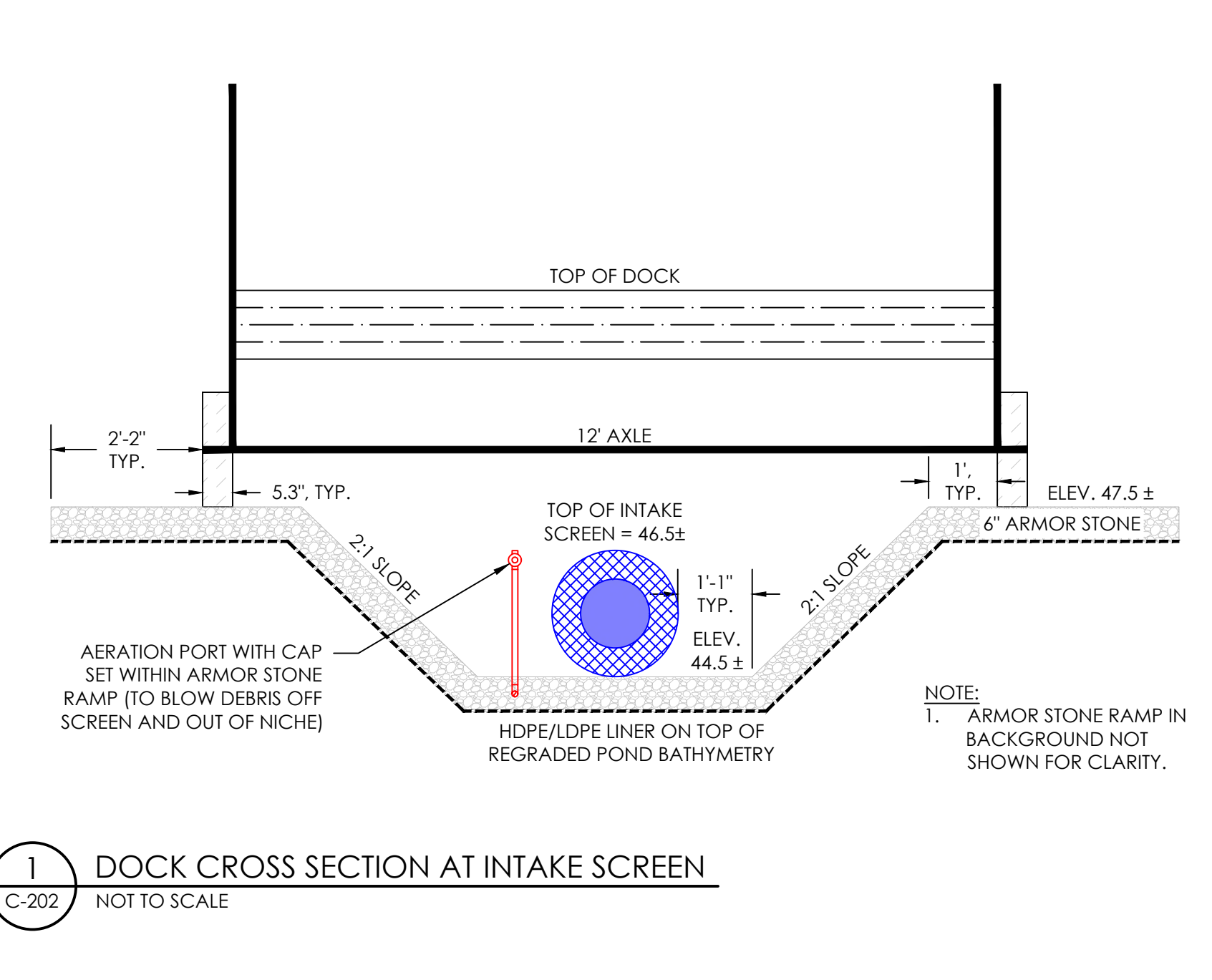
Designed By: J.M.
Checked By: K.W.
Date: 08-01-2023

**BARTLET MALL FROG POND
RESTORATION PROJECT
LINER SYSTEM SECTION AND
DETAILS**

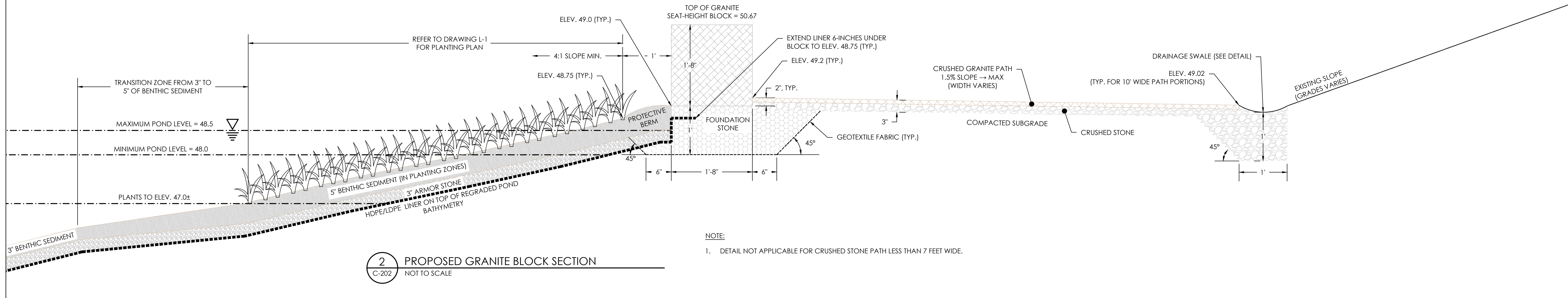
Sheet No.
C-201



B-B FROG POND PROPOSED SECTION
 C-202 SCALE: 1"=4'

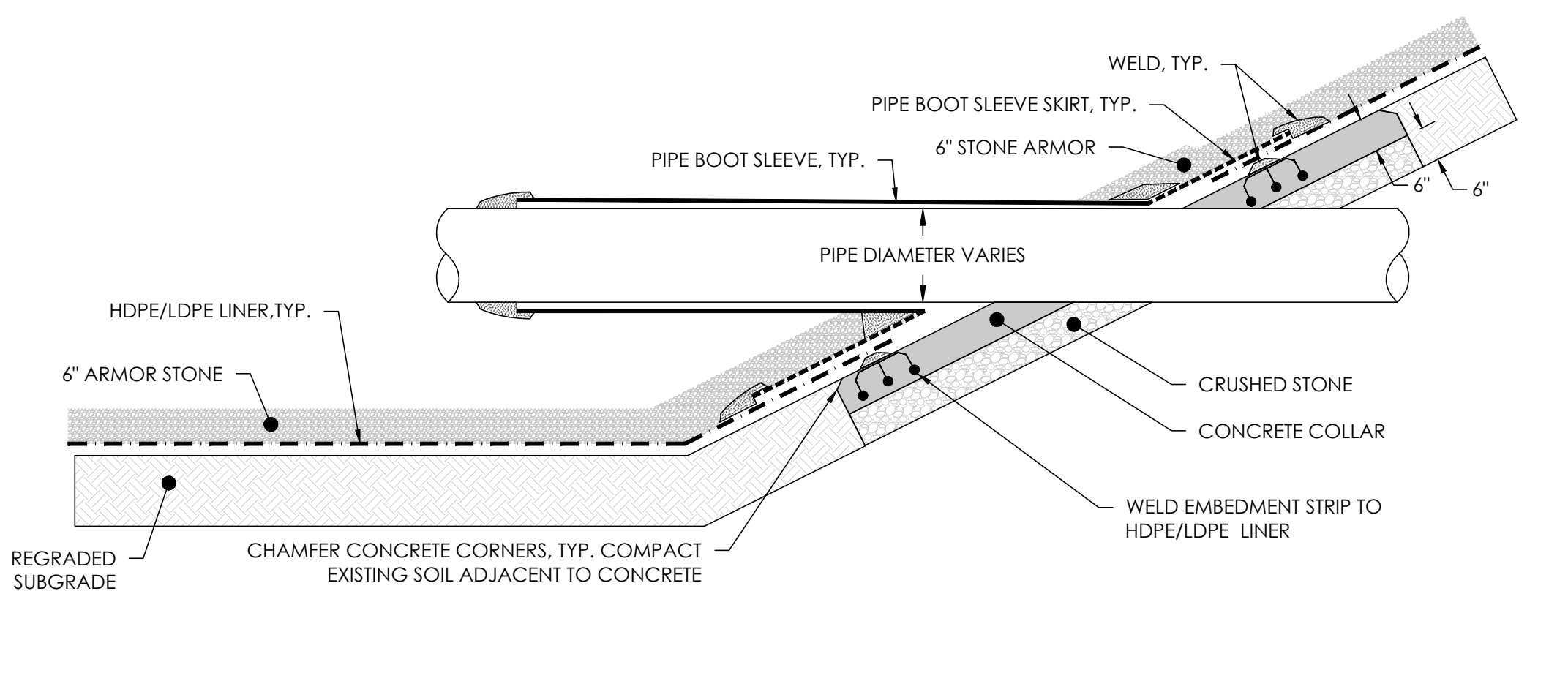


1 DOCK CROSS SECTION AT INTAKE SCREEN
 C-202 NOT TO SCALE

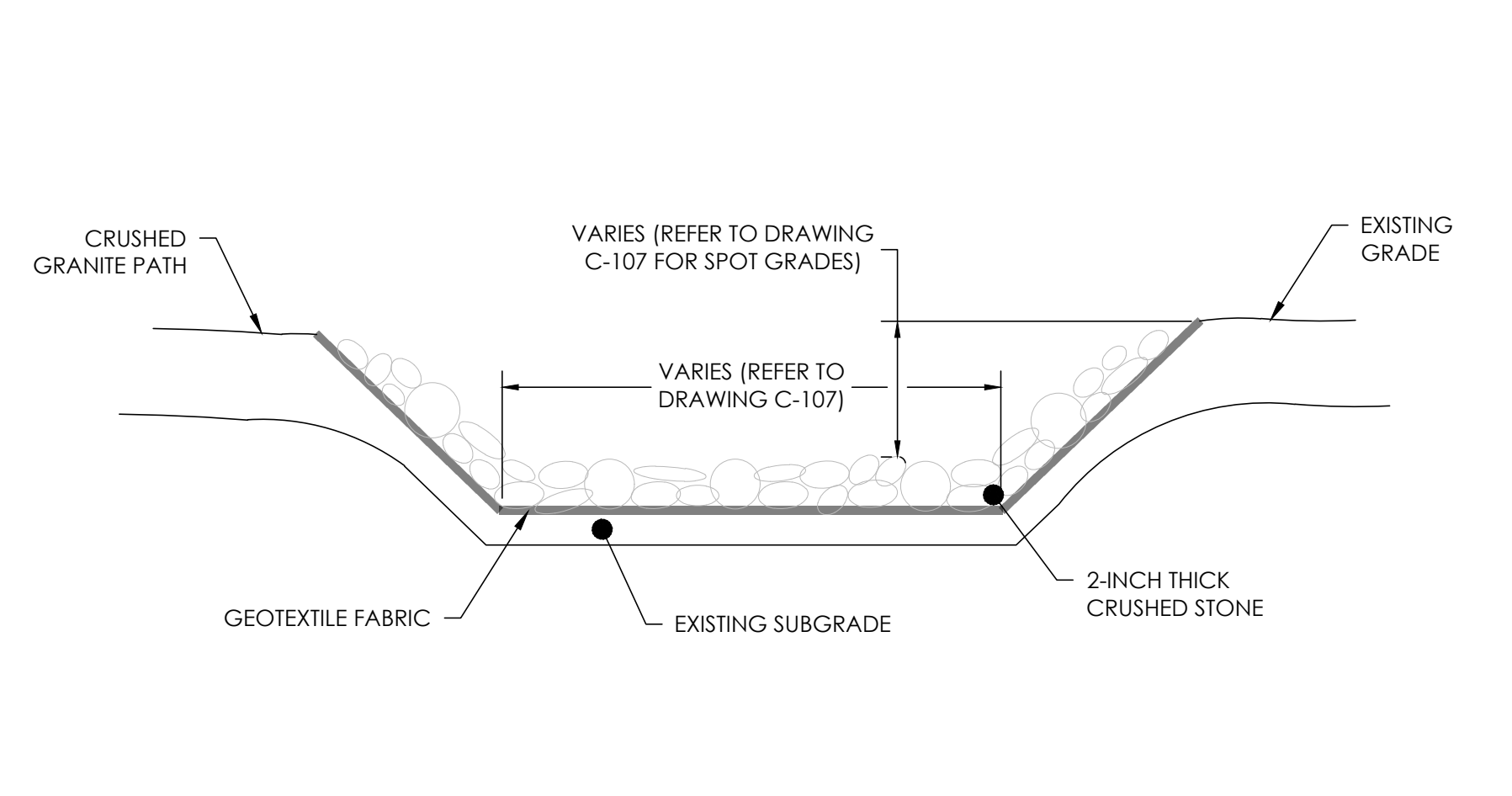


2 PROPOSED GRANITE BLOCK SECTION
 C-202 NOT TO SCALE

NOTE:
 1. DETAIL NOT APPLICABLE FOR CRUSHED STONE PATH LESS THAN 7 FEET WIDE.



3 TYPICAL PIPE PENETRATION THROUGH LINER SYSTEM
 C-202 NOT TO SCALE

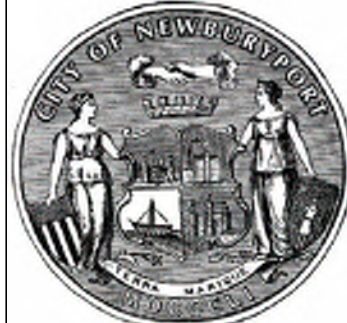


4 DRAINAGE SWALE CROSS SECTION
 C-202 NOT TO SCALE



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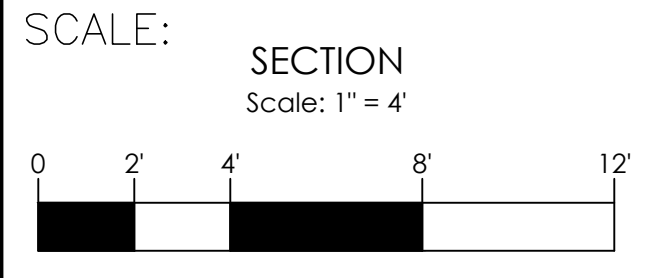
Michael Igo
 8/1/23



CITY OF NEWBURYPORT
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 NEWBURYPORT, MA 01950

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 A. Hammond
 Checked By:
 M. Igo
 Date:
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BARTLET MALL FROG POND RESTORATION PROJECT
CIVIL DETAILS - 1

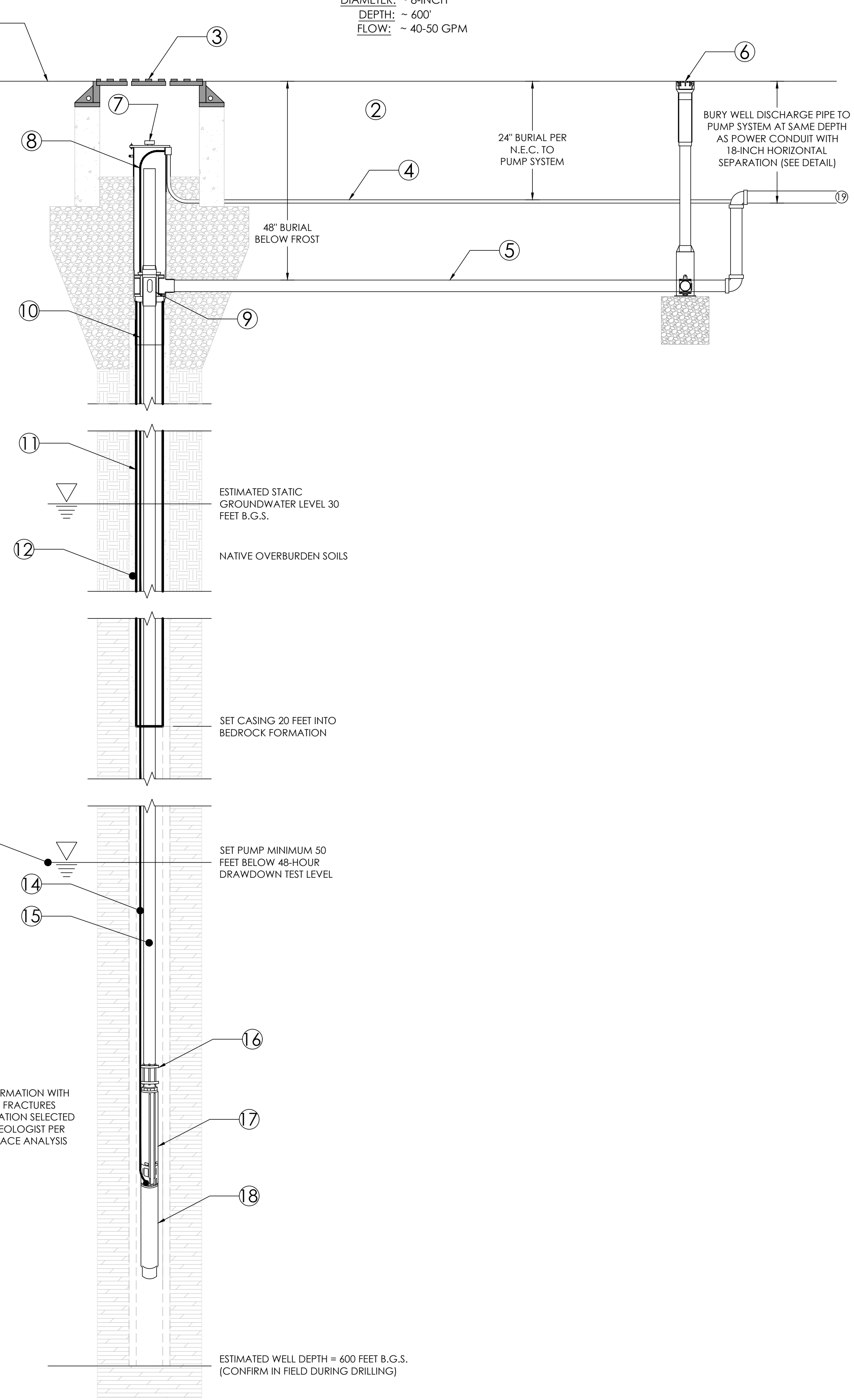
Sheet No.

C-202

NOTE:
1. BEDROCK WELL WATER TO BE TESTED TO EPA WATER QUALITY STANDARDS.

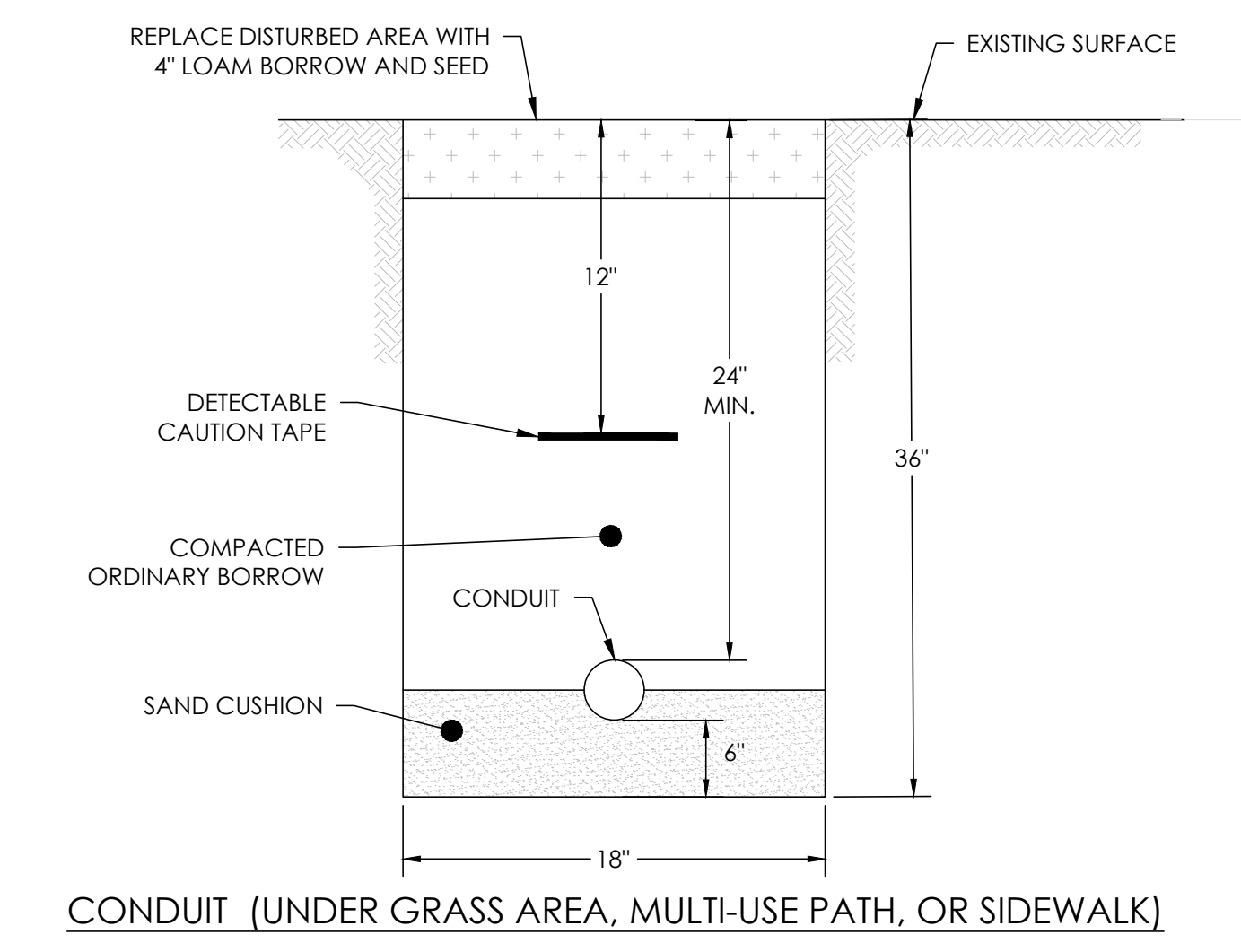
PROPOSED BEDROCK WELL
DIAMETER: ~ 8-INCH
DEPTH: ~ 600'
FLOW: ~ 40-50 GPM

- | ITEM | PRODUCT |
|------|--|
| ① | FINISH GRADE |
| ② | COMPACTED SUBGRADE |
| ③ | 30-INCH DIAMETER, 30-INCH DEEP CONCRETE WELL TILE AND VENTED CAST IRON COVER |
| ④ | 3" CONDUIT (SCH. 80 PVC) |
| ⑤ | 2" GALVANIZED STEEL DISCHARGE PIPE TO CURB STOP |
| ⑥ | 2" STOP AND WASTE VALVE WITH 6-INCH GRAVEL SUMP FOR WINTERIZATION |
| ⑦ | WELL CASING SANITARY SEAL |
| ⑧ | 8AWG SUBMERSIBLE POWER WIRE |
| ⑨ | PITLESS UNIT INTEGRAL SPOOL PIECE |
| ⑩ | WIRE SPACER |
| ⑪ | 8-INCH SCHEDULE 40 PVC SEAMLESS STEEL WELL CASING THREADED INTO PITLESS UNIT |
| ⑫ | NEAT CEMENT (5' BGS TO BOTTOM OF STEEL WELL CASING IN BEDROCK) |
| ⑬ | STEADY-STATE WELL WATER DRAWDOWN LEVEL AFTER 48 HOUR PUMP TEST |
| ⑭ | LIQUID LEVEL SENSOR WIRE IN WELL |
| ⑮ | 2-INCH STEEL DISCHARGE DROP PIPE |
| ⑯ | CHECK VALVE |
| ⑰ | SUBMERSIBLE WELL PUMP WATER END WITH BEST EFFICIENCY POINT 40 - 50 GPM |
| ⑱ | SUBMERSIBLE WELL PUMP MOTOR, ESTIMATED 10 HORSEPOWER |
| ⑲ | 2" HDPE DISCHARGE PIPE TO PUMP SYSTEM |

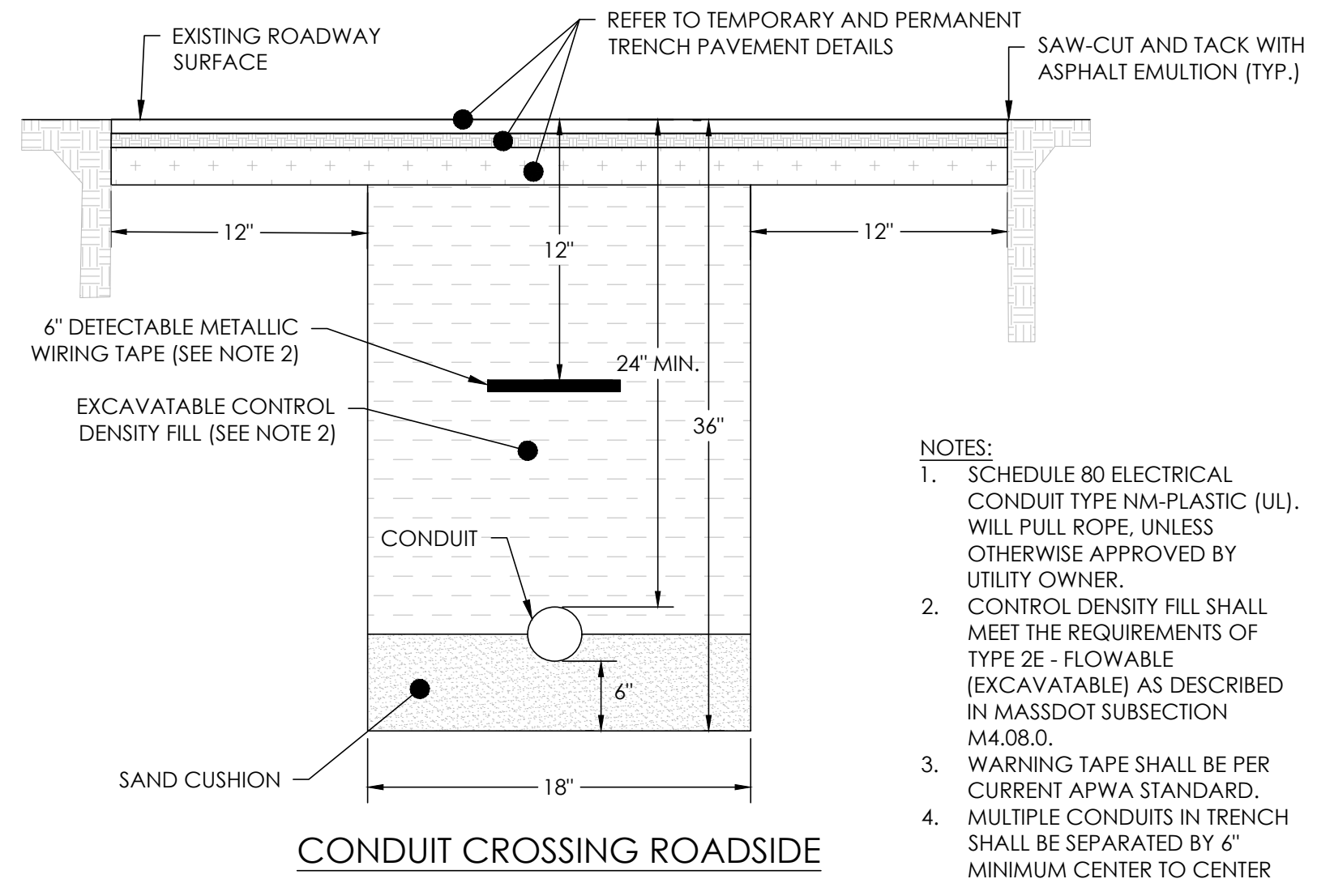


5 DEEP BEDROCK WELL
C-203 NOT TO SCALE

ESTIMATED WELL DEPTH = 600 FEET B.G.S.
(CONFIRM IN FIELD DURING DRILLING)

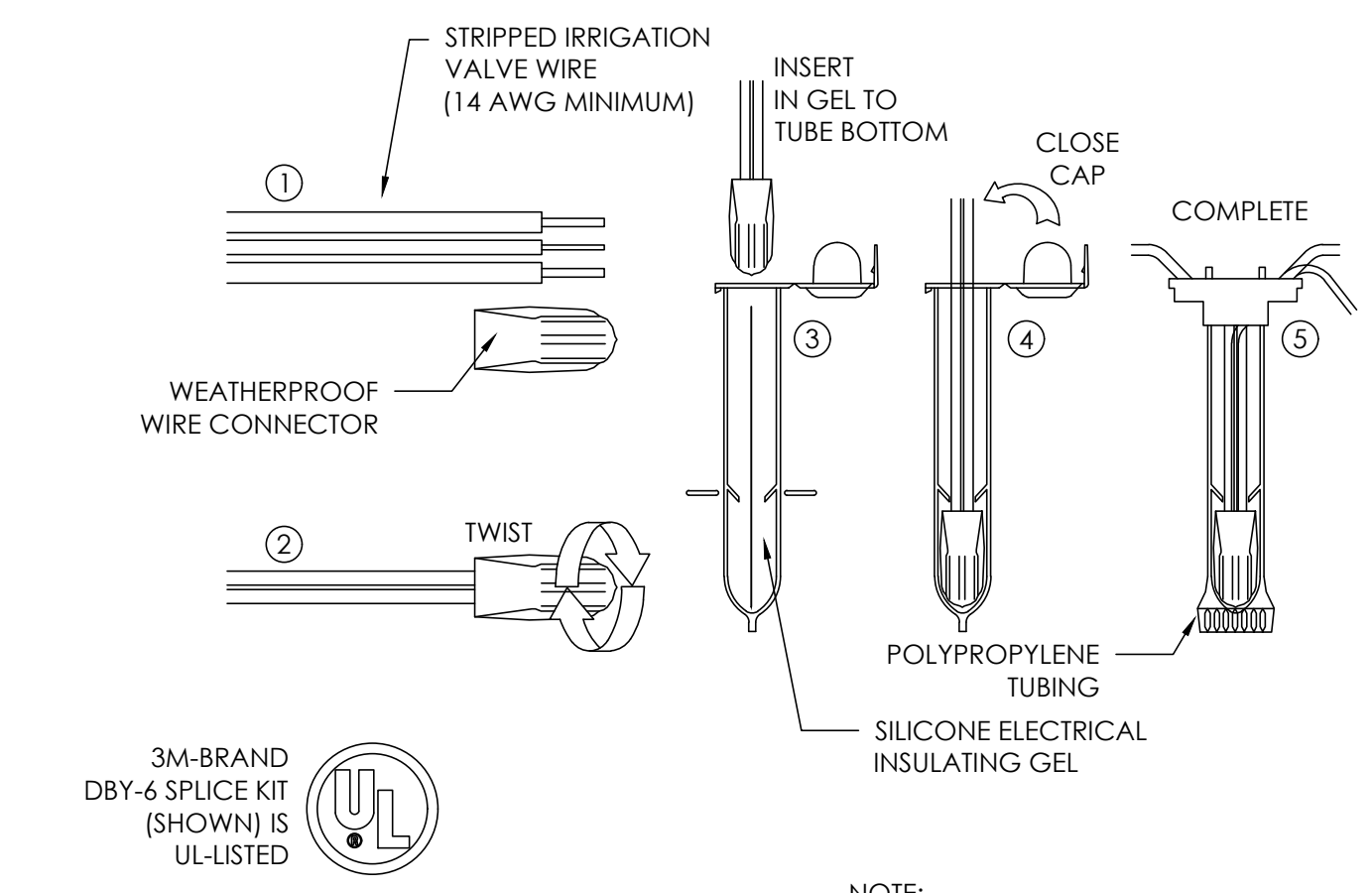


CONDUIT (UNDER GRASS AREA, MULTI-USE PATH, OR SIDEWALK)



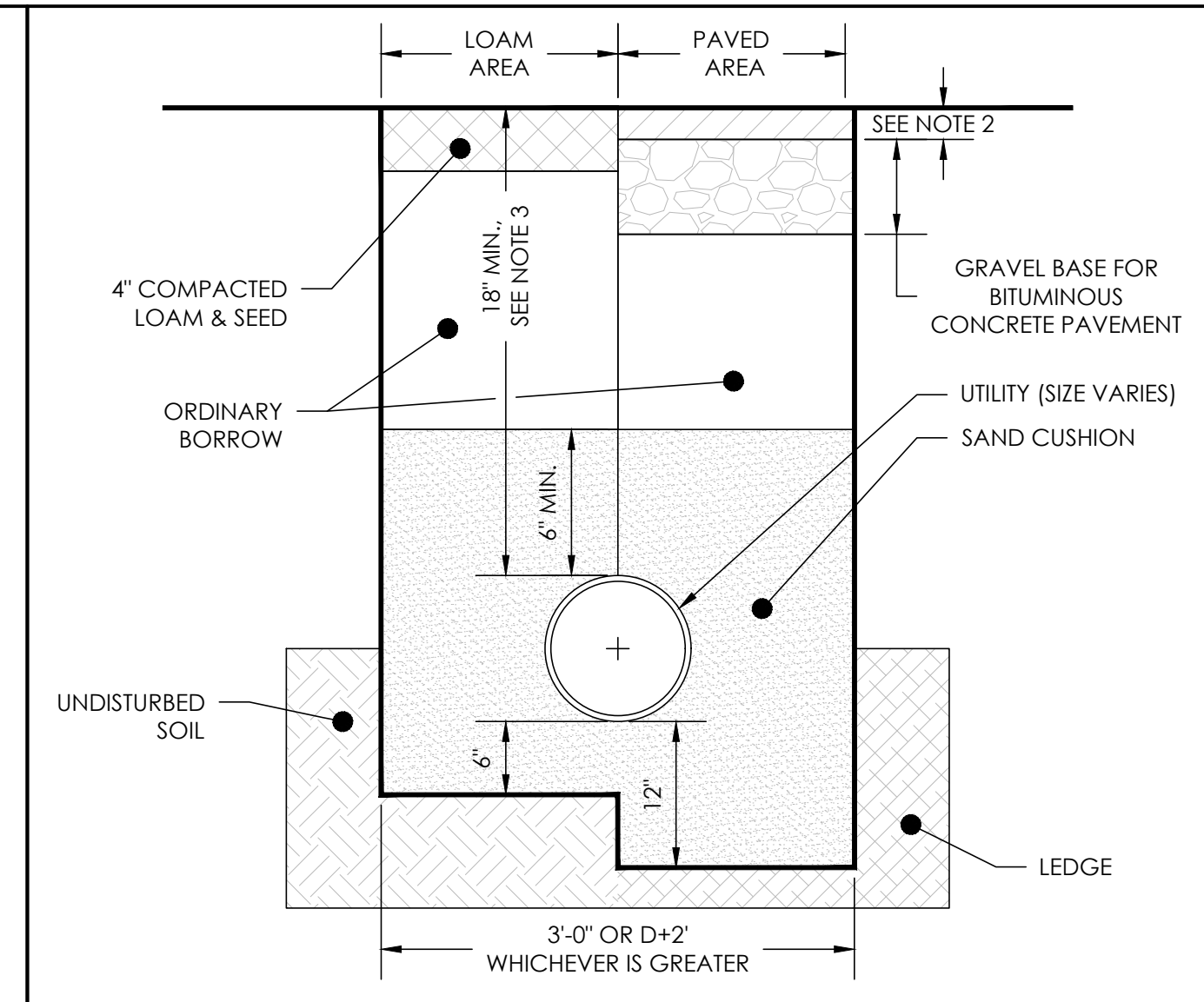
CONDUIT CROSSING ROADSIDE

6 CONDUIT TRENCH DETAIL
C-203 NOT TO SCALE



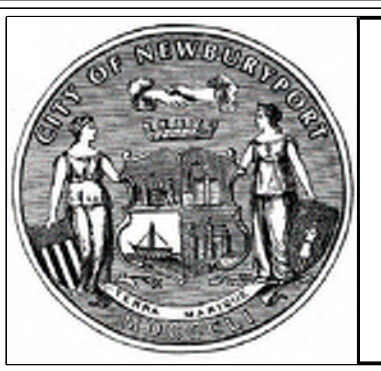
7 WIRE SPLICE KIT
C-203 NOT TO SCALE

- NOTE:
- DO NOT STORE ABOVE 120°F
 - VOLTAGE RATING = 600 VOLTS
 - DO NOT USE IN DIRECT ULTRAVIOLET (UV) EXPOSURE
 - FOR USE WITH UNDERGROUND CONDUCTORS
 - DIRECT BURY SPLICE KIT SHALL BE UL-LISTED



- NOTES:
- MATERIAL SHALL BE REPLACED IN KIND WHENEVER POSSIBLE.
 - A MINIMUM 2' CUTBACK IS REQUIRED AT THE TOP OF THE TRENCH WALL OVER UNDISTURBED MATERIAL.
 - MINIMUM BURIAL DEPTH ARE AS FOLLOWS:
 - DOMESTIC WATER = 48 INCHES
 - BEDROCK WELL WATER = REFER TO DETAIL
 - DRAIN = REFER TO DRAWING C-106 FOR INVERTS

8 UTILITY TRENCH DETAIL (NOT WITHIN POND LIMITS)
C-203 NOT TO SCALE



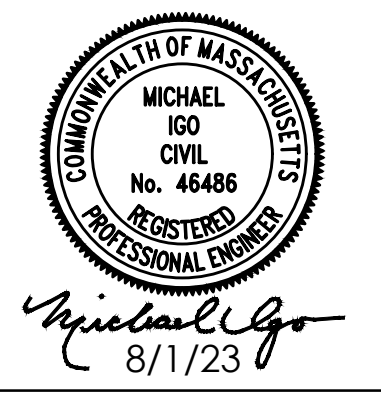
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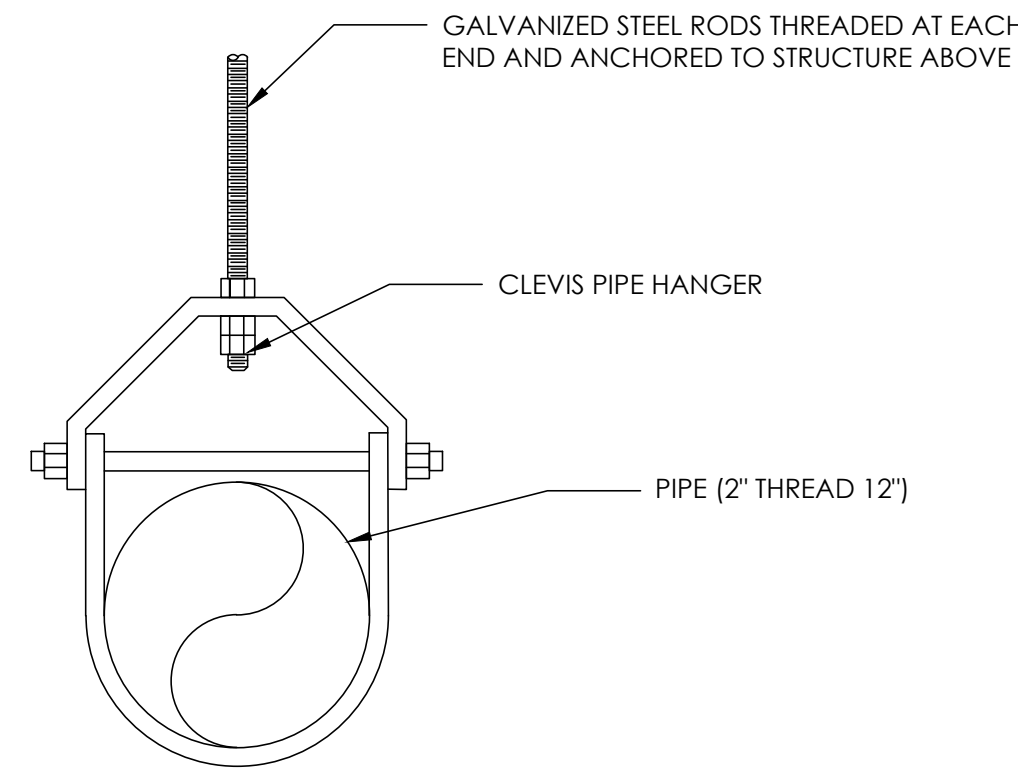
Designed By:
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Checked By:
M. Igo
Date:
8-1-2023

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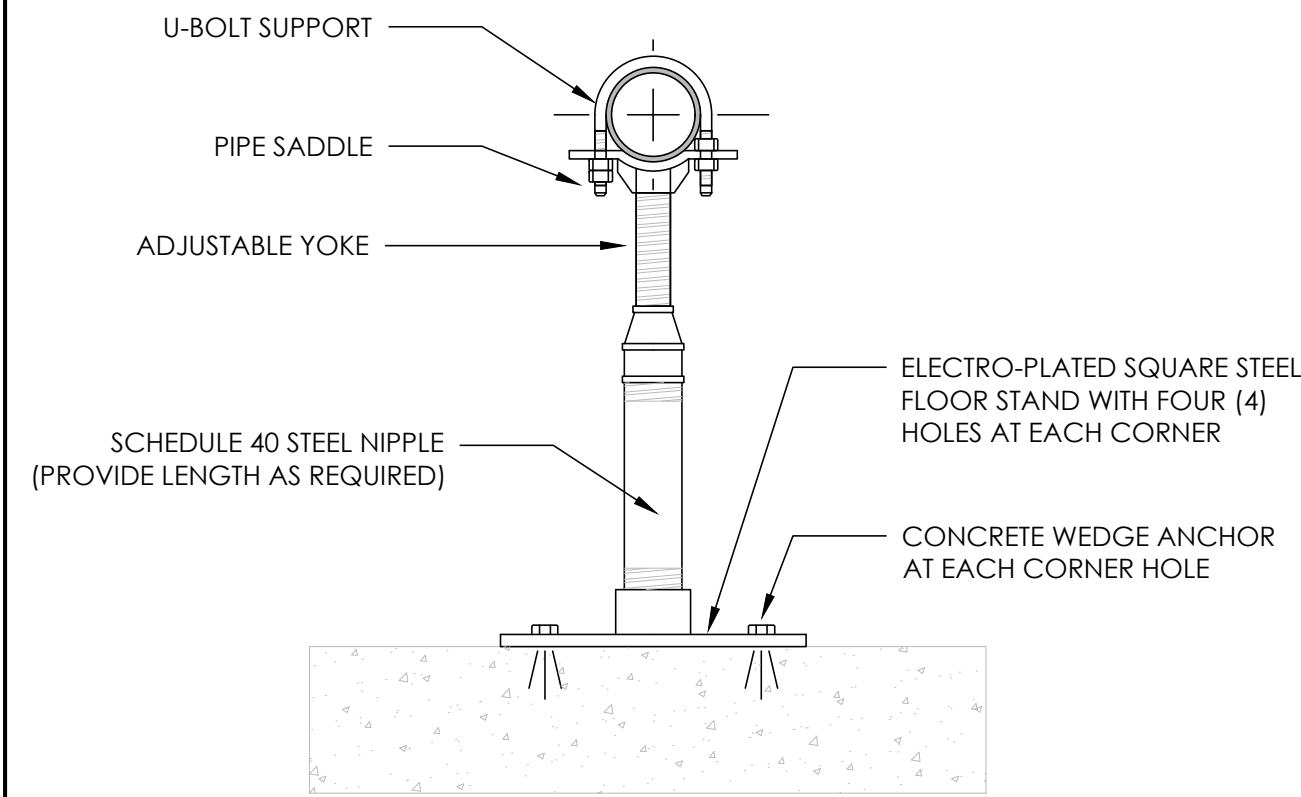
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BARTLET MALL FROG POND
RESTORATION PROJECT
CIVIL DETAILS - 2



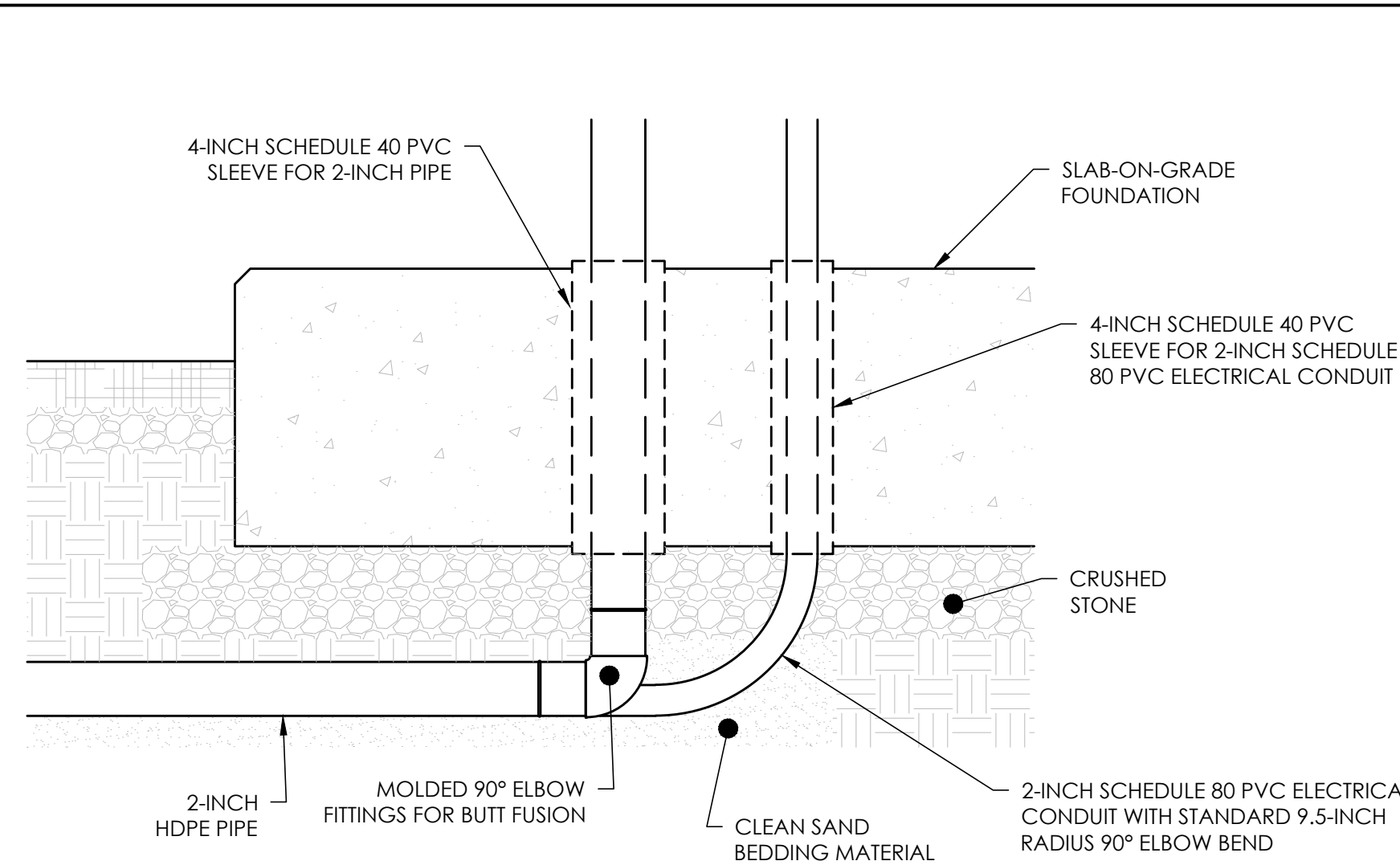
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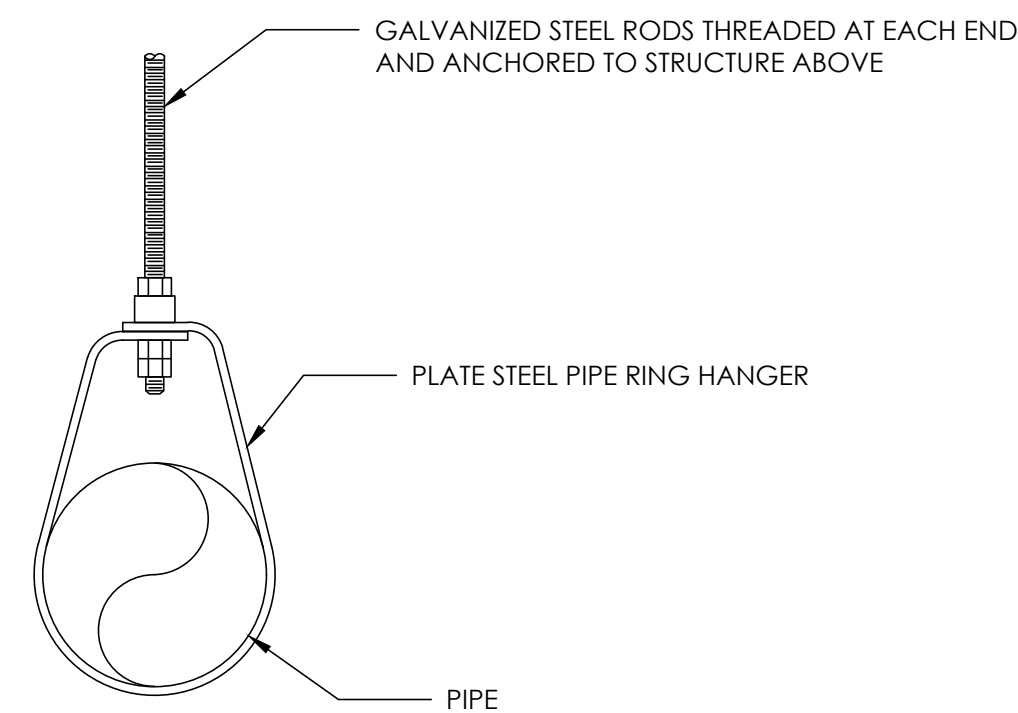
9 CLEVIS HANGER
C-204 NOT TO SCALE



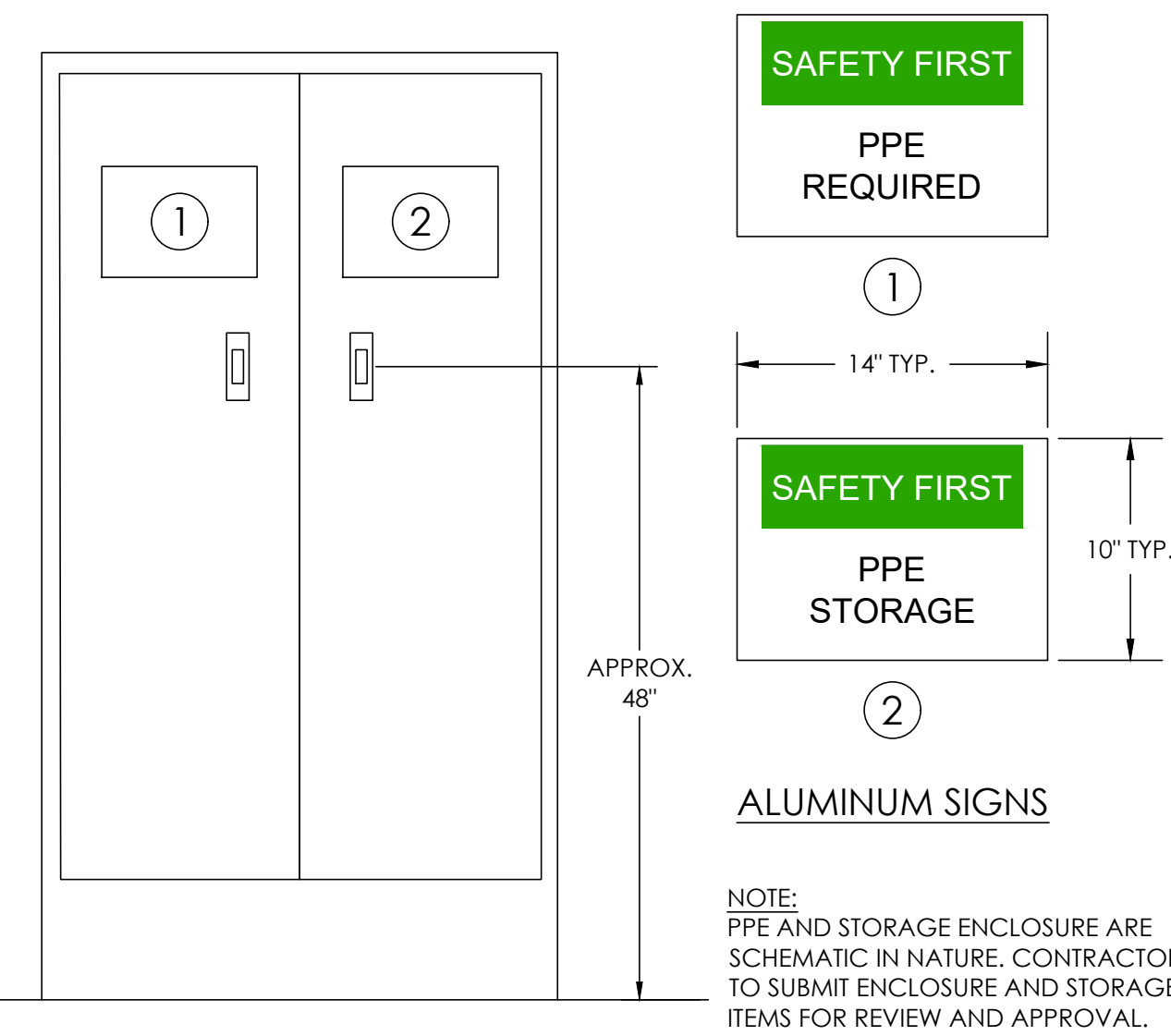
10 FLOOR MOUNTED PIPE SUPPORT
C-204 NOT TO SCALE



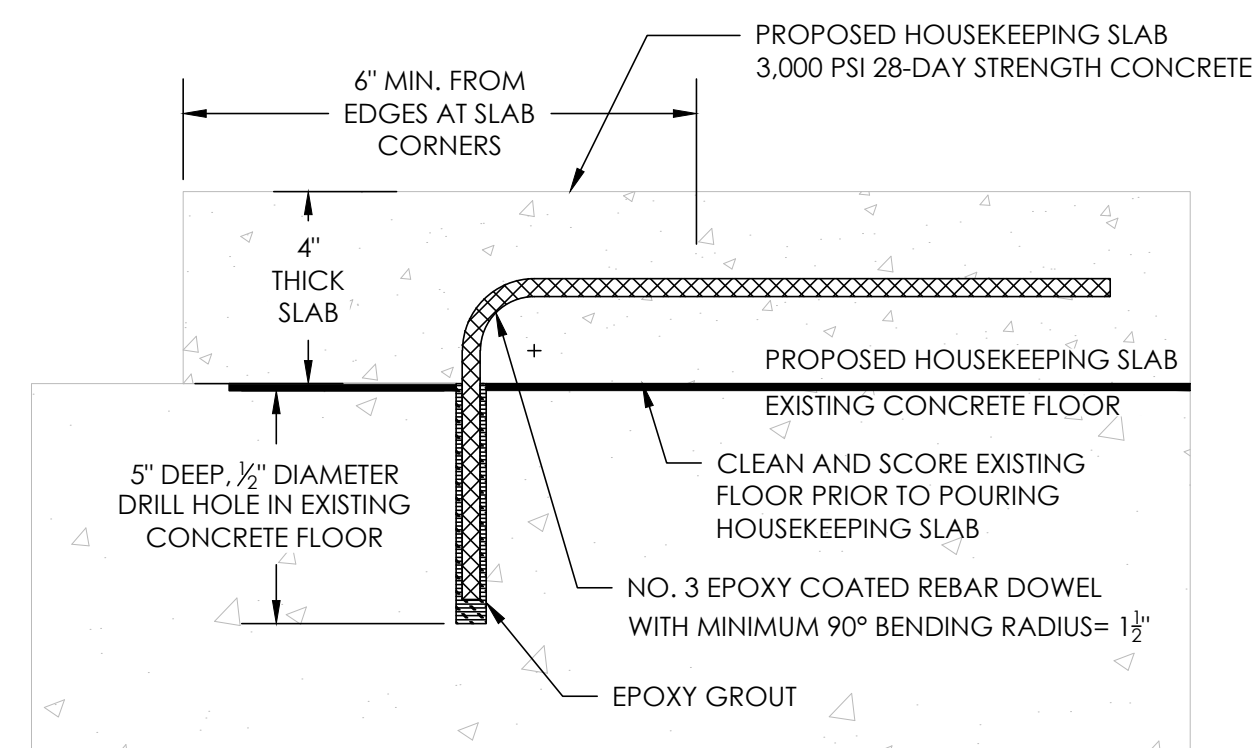
15 PIPE AND CONDUIT THROUGH CONCRETE PAD
C-204 NOT TO SCALE



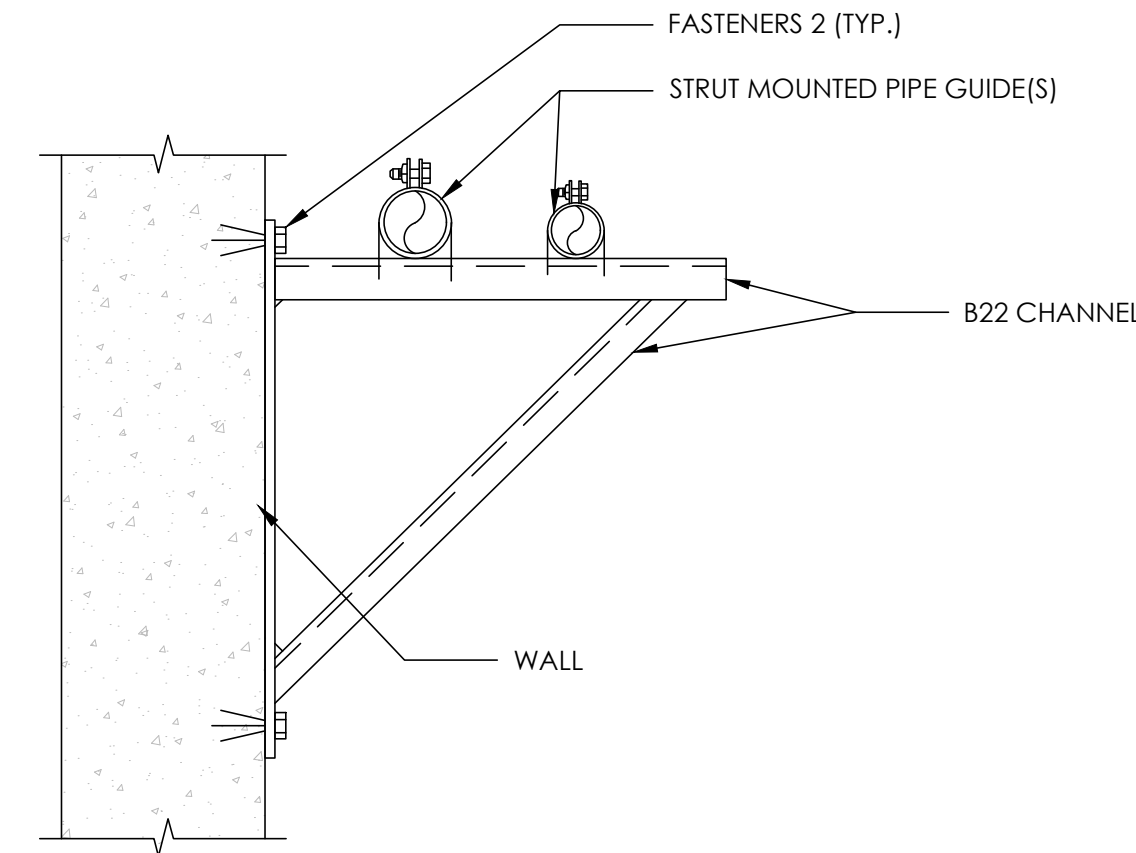
11 SWIVEL PIPE SUPPORT
C-204 NOT TO SCALE



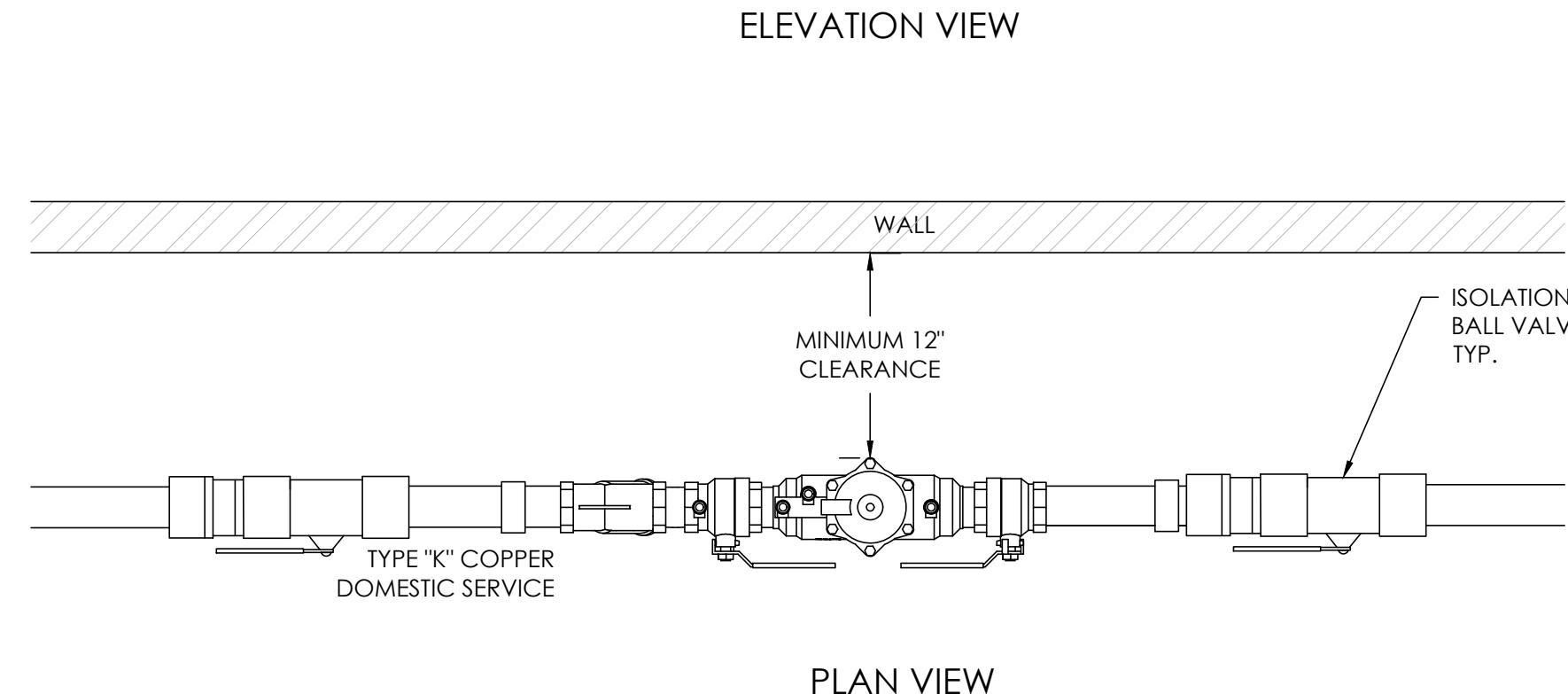
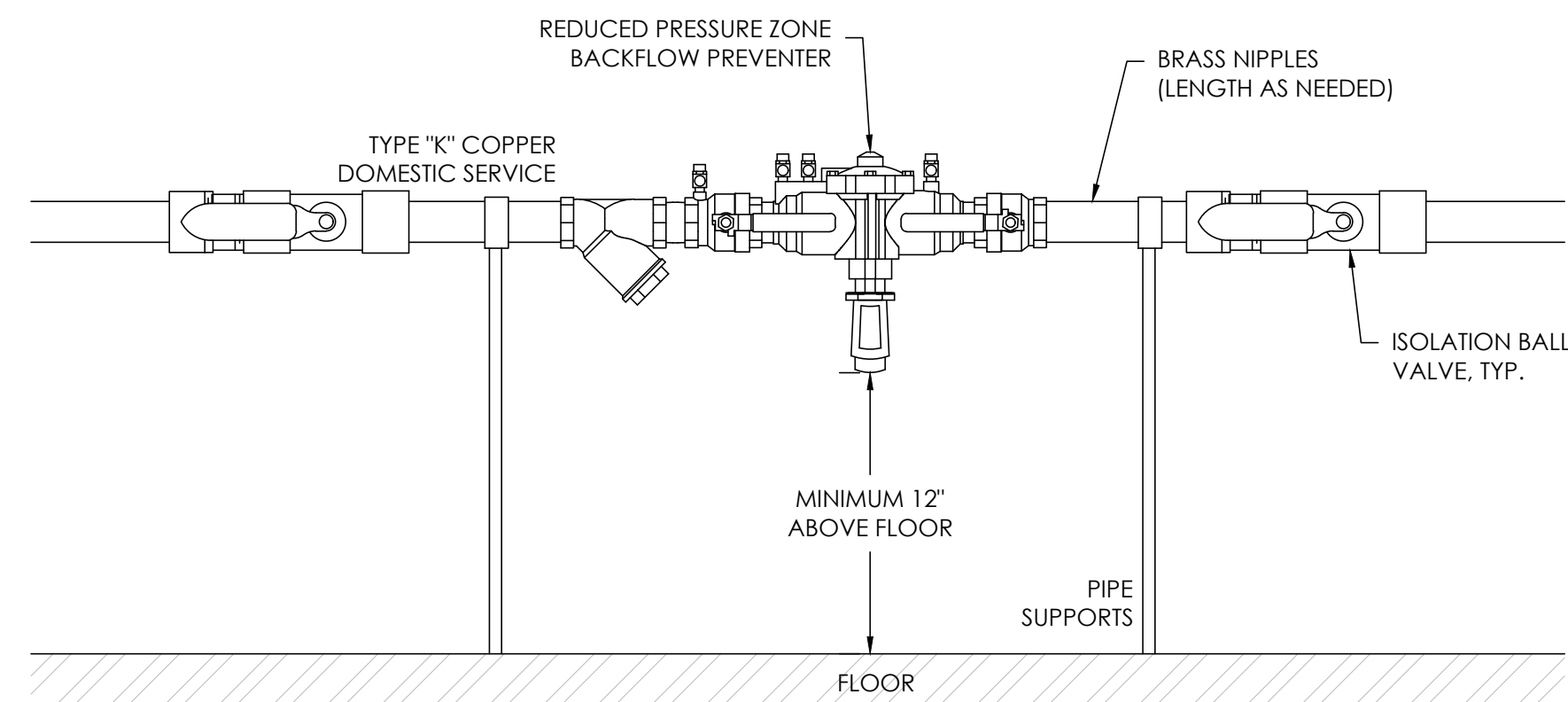
12 PPE AND STORAGE ENCLOSURE
C-204 NOT TO SCALE



13 TYPICAL HOUSEKEEPING SLAB ELEVATION
C-204 NOT TO SCALE



14 WALL MOUNTED PIPE SUPPORT
C-204 NOT TO SCALE



16 1.5-INCH REDUCED PRESSURE ZONE BACKFLOW PREVENTER
C-204 NOT TO SCALE



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8/1/23



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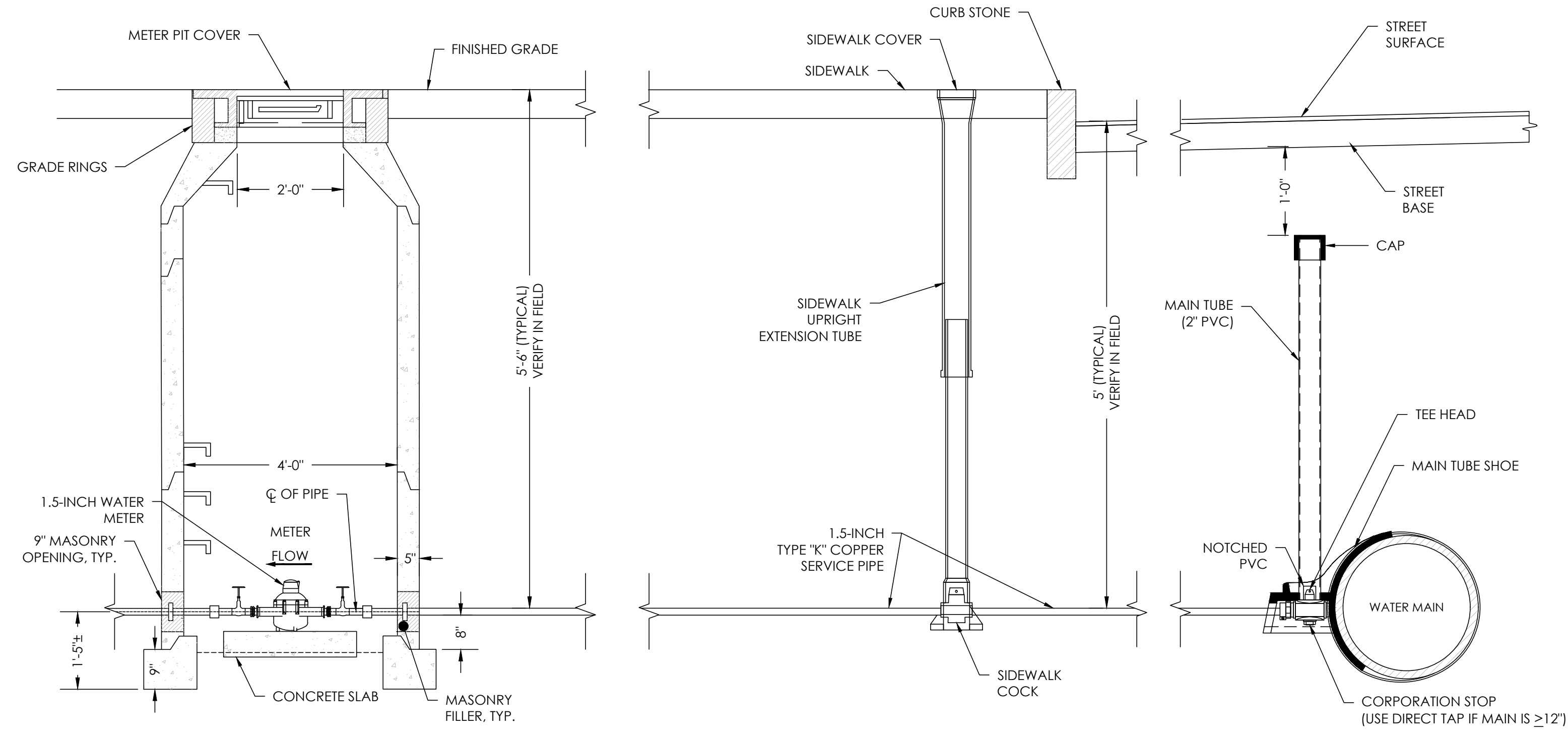
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BARTLET MALL FROG POND
RESTORATION PROJECT

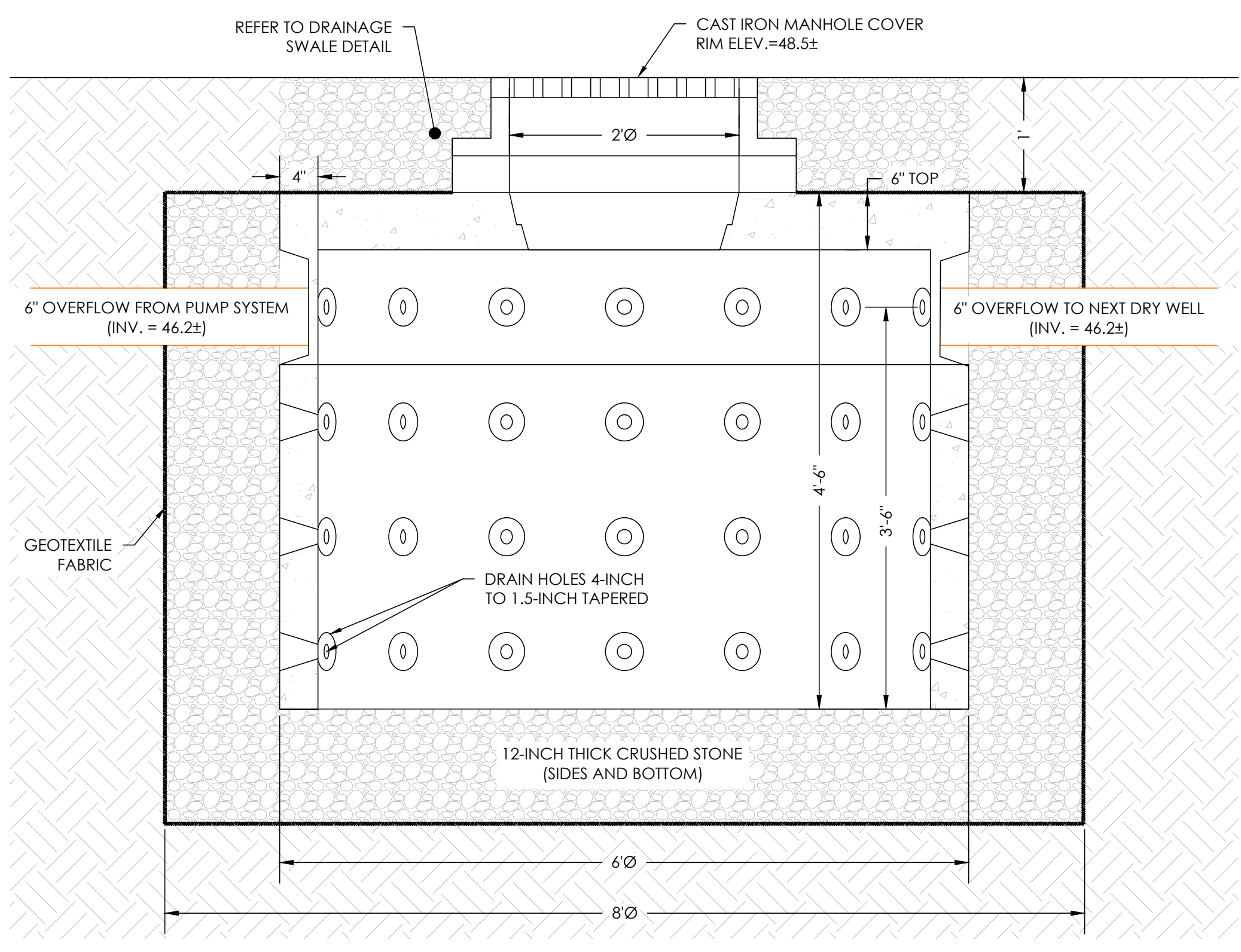
CIVIL DETAILS - 3

Sheet No.

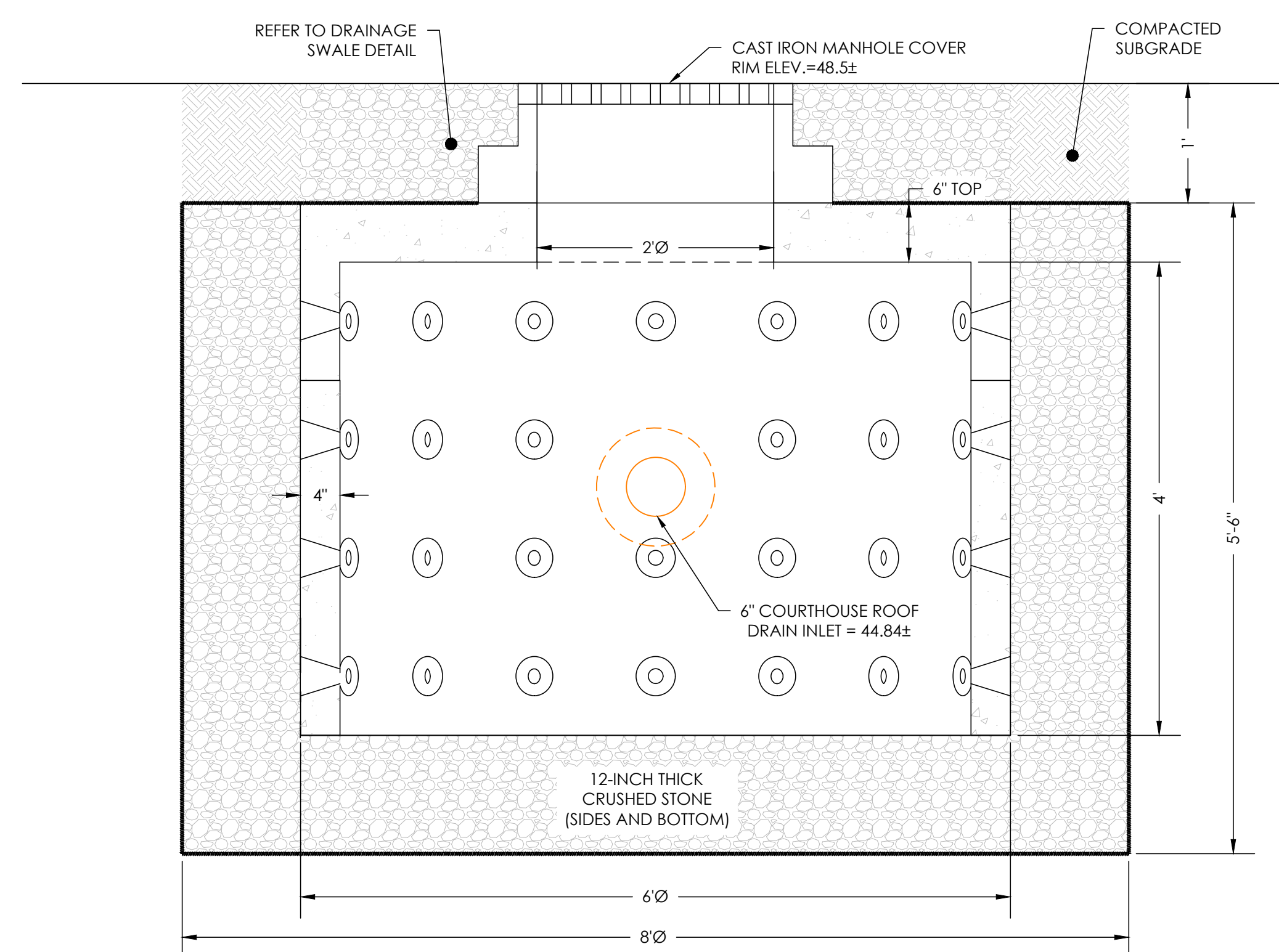
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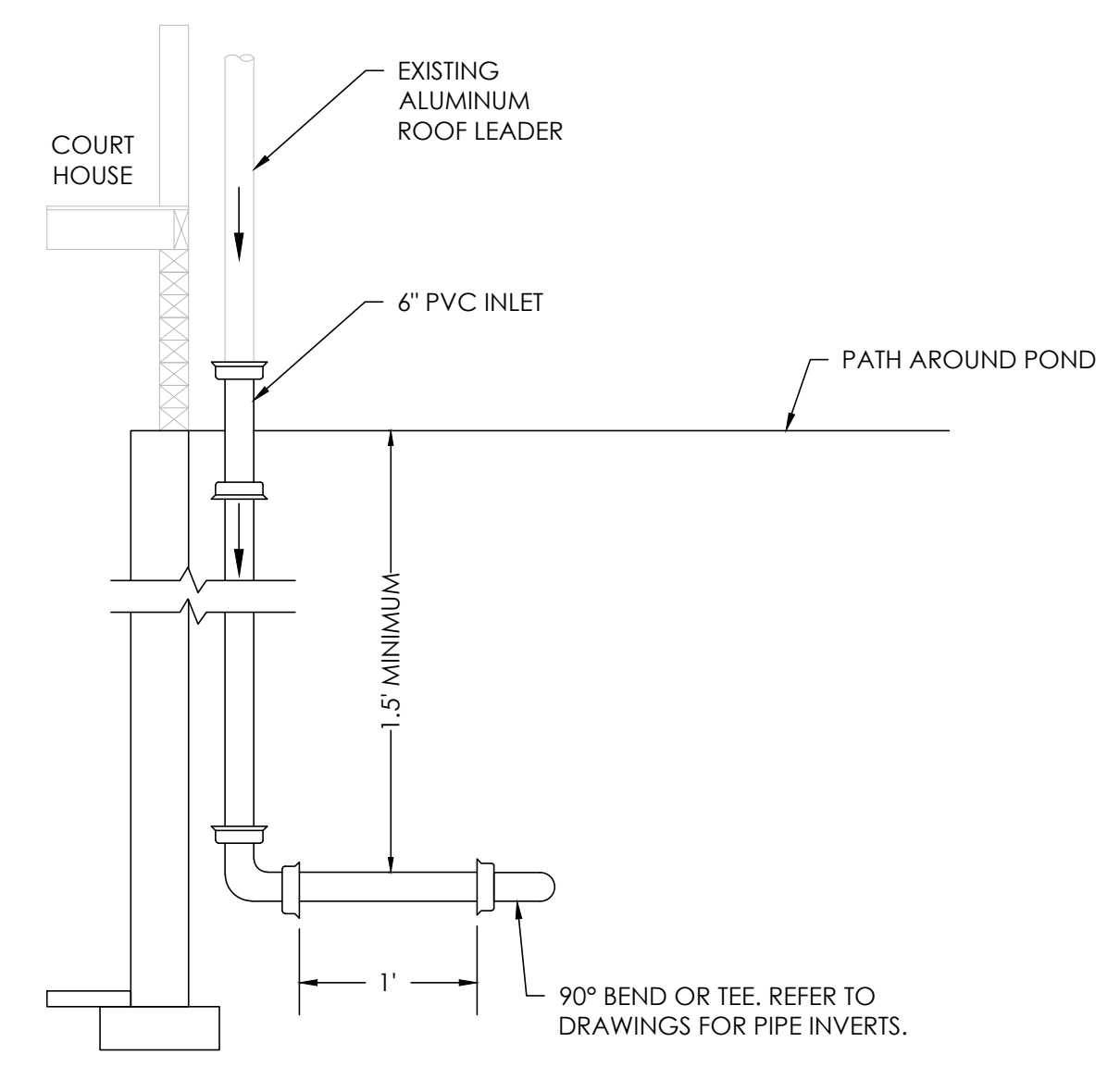
18 DOMESTIC WATER CONNECTION
C-205 NOT TO SCALE



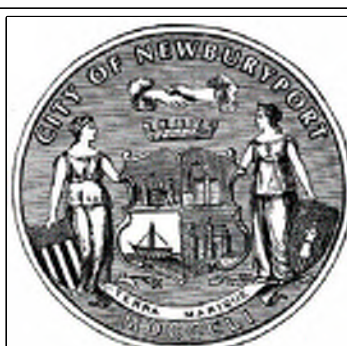
19 PUMP SHED DRYWELL
C-205 NOT TO SCALE



20 COURTHOUSE DRYWELL
C-205 NOT TO SCALE



21 ROOF LEADER TO DRYWELL
C-205 NOT TO SCALE



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M. Igo
Date:
8-1-2023

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BARTLET MALL FROG POND RESTORATION PROJECT
CIVIL DETAILS - 4

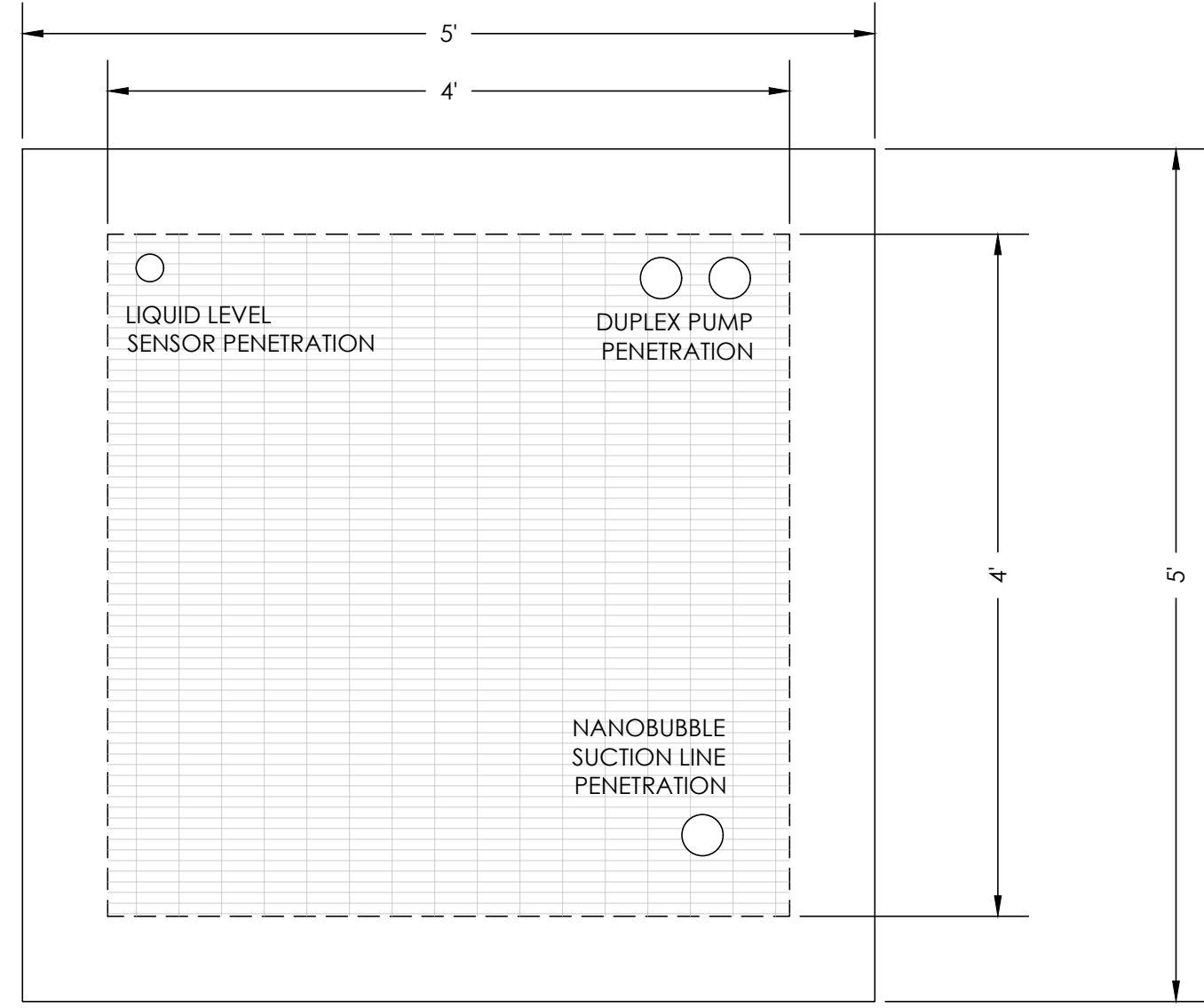


8/1/23

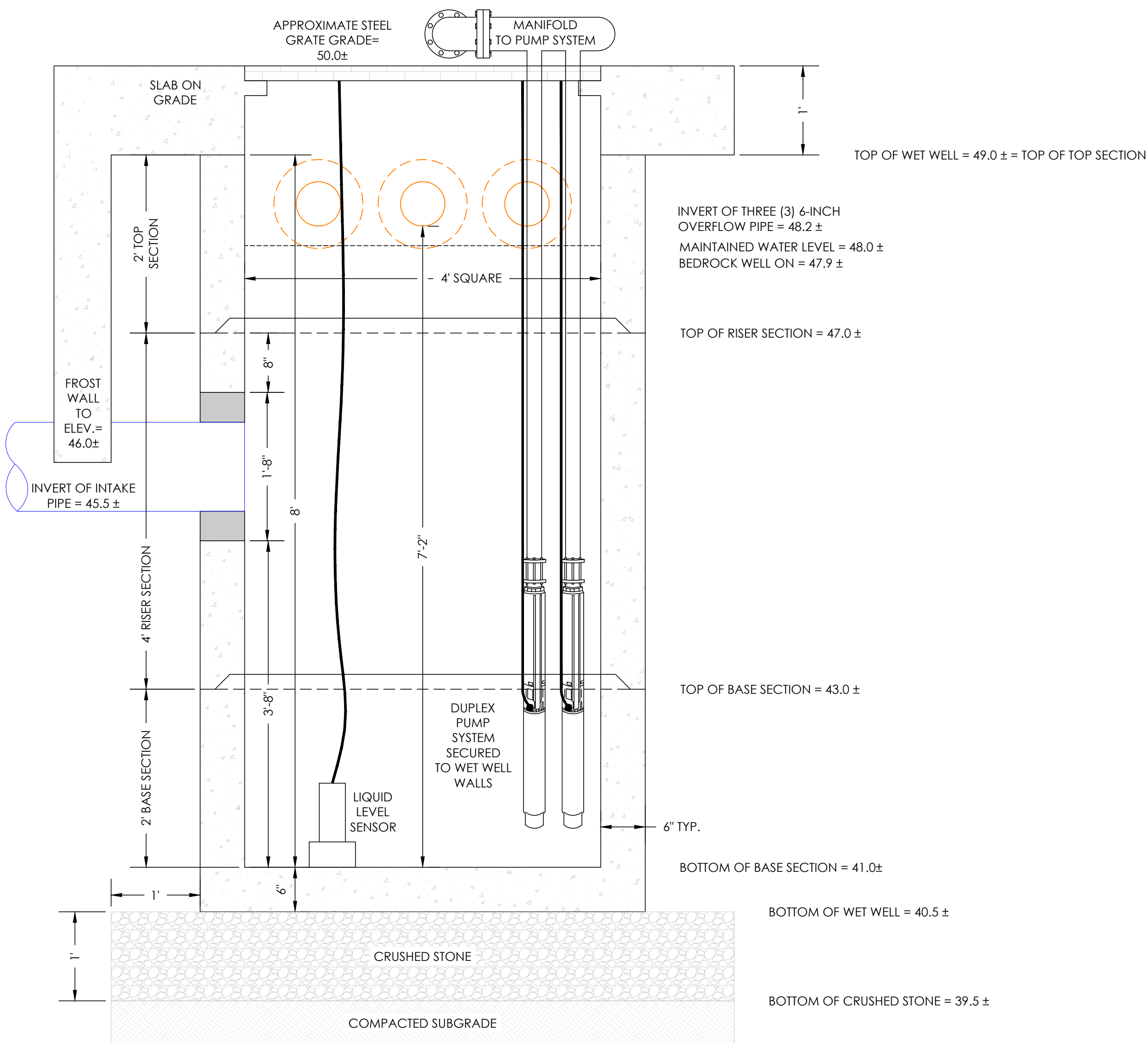
Sheet No.

C-205

- NOTES:
1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
 2. DESIGN LOADING PER AASHTO HS-20, 1 TO 5 FEET COVER.
 3. MANHOLE DESIGN SPECS CONFORM TO ASTM C478 SPEC FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS."
 4. SEE DRAWING C-302 FOR GRATE PENETRATIONS.

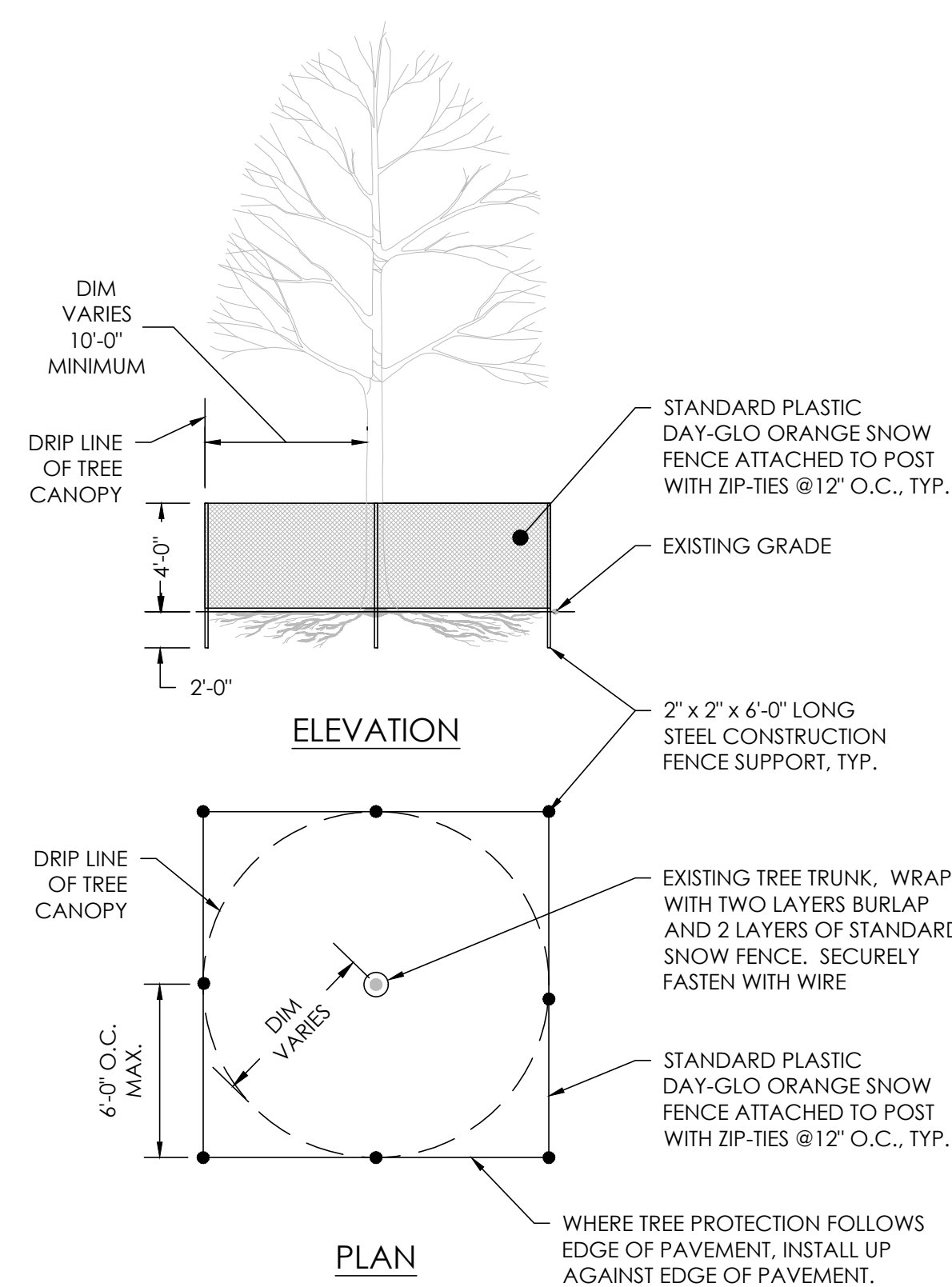


PLAN VIEW



SECTION VIEW

22 WET WELL
C-206 NOT TO SCALE

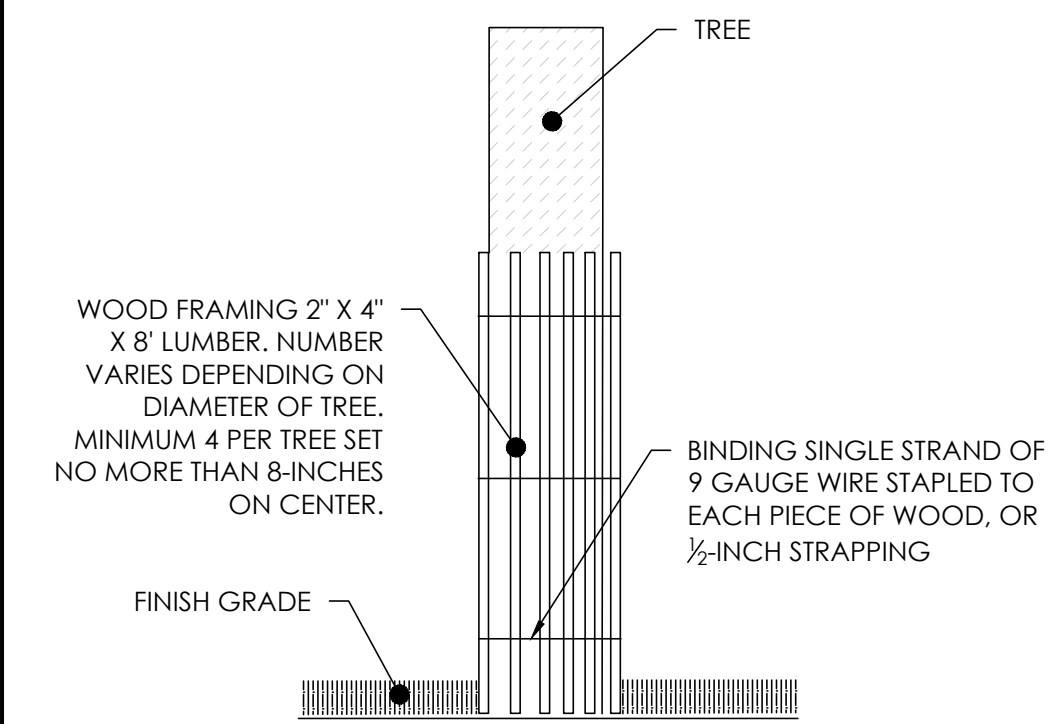


ELEVATION

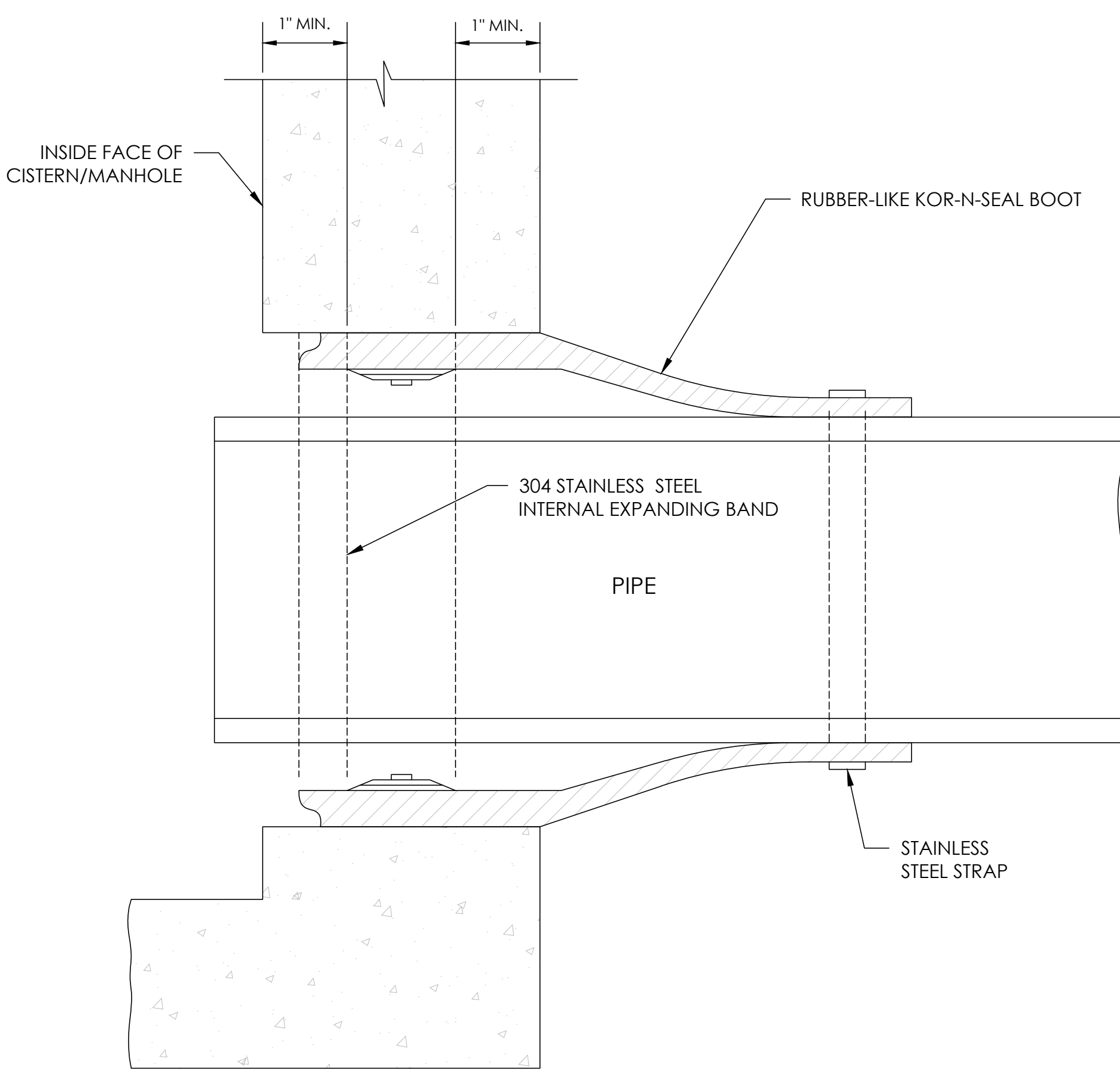
PLAN

23 TREE PROTECTION FENCE DETAIL
C-206 NOT TO SCALE

- NOTES:
1. PROTECTIVE BARRICADE TO BE PLACED A MINIMUM OF 10' FROM BASE OF TREE PLUS AN ADDITIONAL 1' FOR EACH ADDITIONAL DBH FOR TREES GREATER THAN 10" DBH. ALL WORK PERFORMED WITHIN PROTECTIVE BARRICADES SHALL BE COMPLETED BY HAND AND WITH LIGHT EQUIPMENT.
 2. FOR TREES THAT OCCUR IN GROUPS, PROVIDE TREE PROTECTION FENCE AROUND THE ENTIRE AREA. SEE PLAN FOR LOCATIONS.
 3. DO NOT STORE ANY MACHINERY OR MATERIALS WITHIN AREA OF THE TREE PROTECTION FENCE.
 4. CONTACT APPROVED ARBORIST TO PERFORM RECOMMENDED FERTILIZATION, ROOT PRUNING, AND LIMB PRUNING TREATMENTS ON SPECIMEN TREES BEFORE BEGINNING SITE PREPARATION WORK.
 5. HAND EXCAVATE ONLY WITHIN THE AREA OF TREE PROTECTION FENCE.
 6. REMOVAL OF FENCE ONLY UPON APPROVAL OF THE CLIENT'S REPRESENTATIVE.
 7. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT EACH CONTRACTOR WORKING AT THE SITE UNDERSTANDS AND COMPLIES WITH THE TREE PROTECTION PLAN.
 8. ARBORISTS AND LANDSCAPE CONTRACTORS MAY ENTER TREE PROTECTION ZONES ONLY TO PERFORM TREE WORK AND ROUTINE LANDSCAPE MAINTENANCE.
 9. DURING EXCAVATION, CUT ROOTS AT EDGE OF EXCAVATION USING AIR SPADE OR SHARP HAND TOOLS FOR A CLEAN CUT. EXPOSED ROOTS SHALL BE KEPT MOIST WHILE EXPOSED. ONCE CUT, ALL ROOTS SHALL BE COVERED WITH SOIL AND SUPPLEMENTAL WATER TO MINIMIZE DESICCATION.
 10. DO NOT DISPOSE OF WASTE SOLIDS AND WATER, OR WASH EQUIPMENT AND VEHICLES ANYWHERE NEAR PROTECTED TREES.

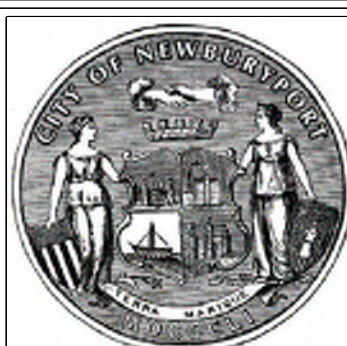
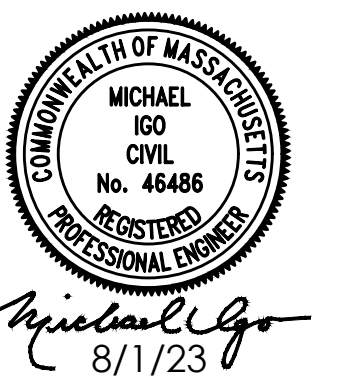


25 TREE TRUNK PROTECTION DETAIL
C-206 NOT TO SCALE



24 KOR-N-SEAL PENETRATION JOINT SLEEVE
C-206 NOT TO SCALE

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60 PLEASANT STREET
NEWBURYPORT, MA 01950

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A. Hammond
Checked By:
M. Igo
Date:
8-1-2023

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BARTLET MALL FROG POND
RESTORATION PROJECT
CIVIL DETAILS - 5

Sheet No.

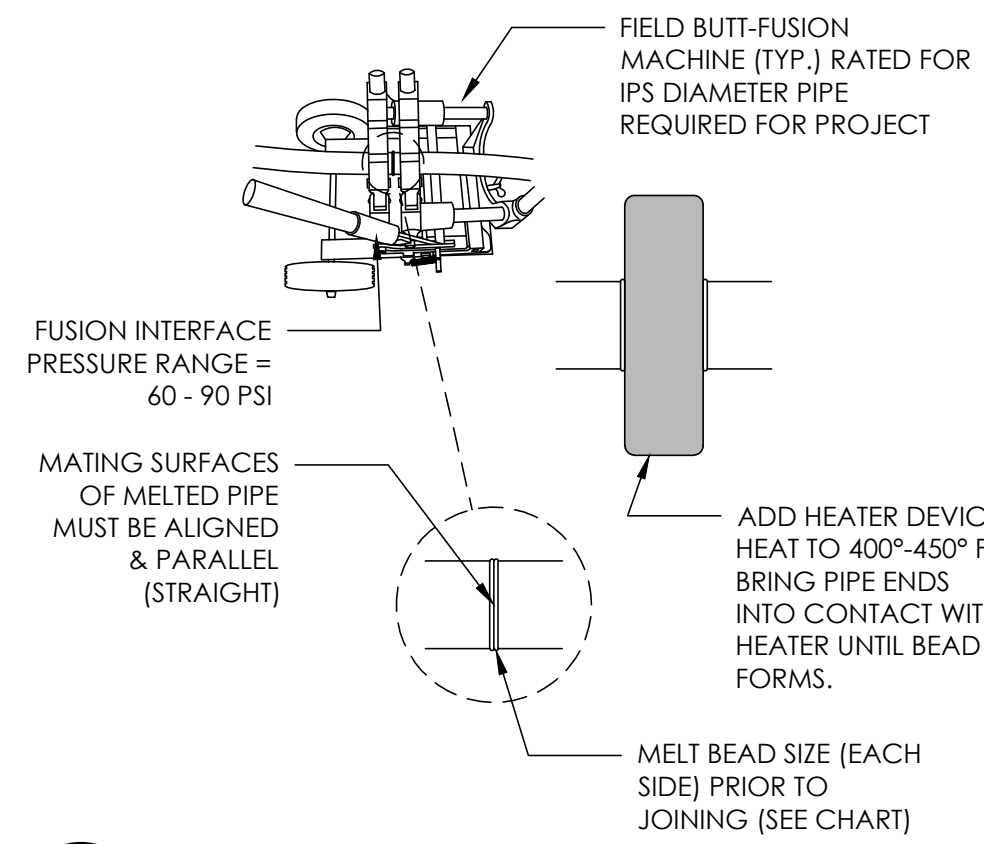
C-206

TYPICAL IPS PE3408 PIPE DIMENSIONS - DR 11 (160 PSI)

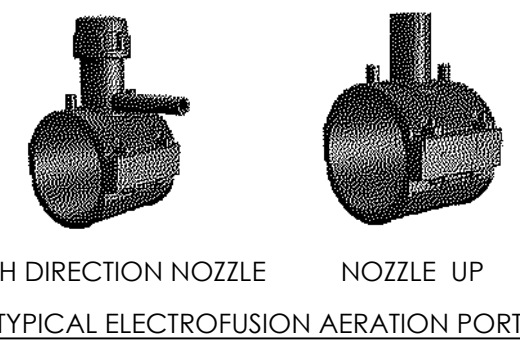
NOMINAL PIPE DIAMETER	ACTUAL OUTSIDE DIAMETER	MINIMUM WALL THICKNESS	AVERAGE INSIDE DIAMETER	WEIGHT (LBS./FT)	MELT BEAD SIZE
2"	2.375"	0.216"	1.917"	0.639	1/16"
3"	3.500"	0.318"	2.825"	1.387	1/16"
6"	6.625"	0.602"	5.348"	4.971	3/16"
12"	12.750"	1.159"	10.293"	18.412	3/16"

ABBREVIATED HDPE BUTT FUSION PROCEDURES
(REFER TO PLASTIC PIPE INSTITUTE TR33 FOR COMPLETE PROCEDURE)

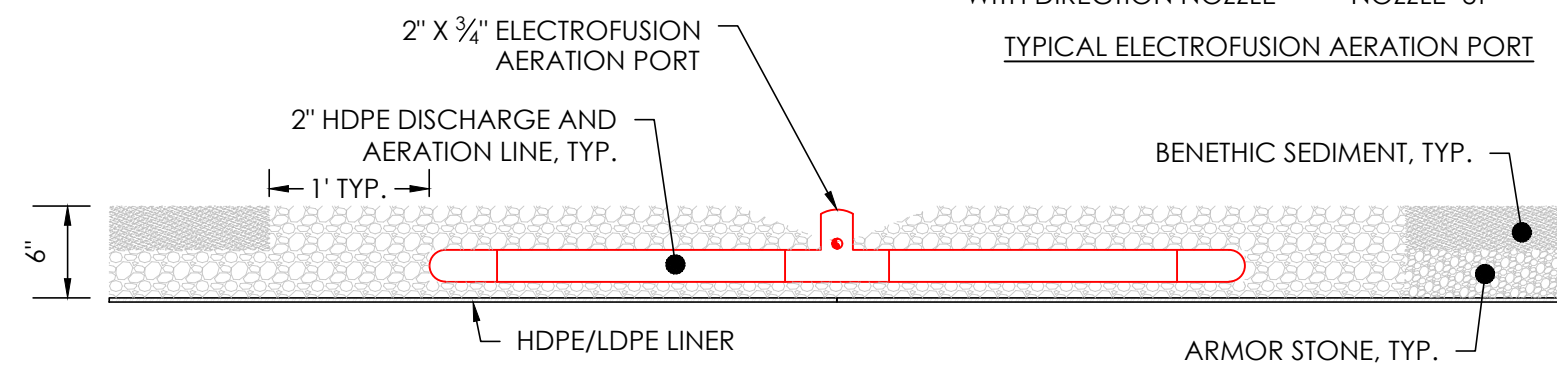
- 1. SECURE**
CLEAN INSIDE AND OUTSIDE OF PIPE TO BE JOINED WITH CLEAN LINT-FREE CLOTH AND REMOVE ALL FOREIGN MATTER. CLAMP PIPE ENDS TO BUTT-FUSION MACHINE. RE-ROUND PIPES AS NECESSARY.
- 2. FACE**
FACE PIPE ENDS TO ESTABLISH CLEAN, PARALLEL MATING SURFACES. USING TRIMMING TOOL, DRAW PIPE ENDS TOGETHER UNTIL SHAVING SIZES MATCH ON EACH SIDE. INSPECT FOR DEFORMITIES WITHOUT TOUCHING FACED SURFACES.
- 3. ALIGN**
DRAW FACED PIPE ENDS TOGETHER. PIPE PROFILES MUST BE ROUNDED AND ALIGNED TO MINIMIZE MIS-MATCHING OF PIPE WALLS. THE FOLLOWING TOLERANCES SHALL BE ADHERED TO FOR ACCEPTABLE ALIGNMENT: MAXIMUM GAP = 0.02 INCHES OR 0.5mm, MAXIMUM WALL OFFSET = 10% OF WALL THICKNESS
- 4. MELTING PREPARATION**
CLEAN FACED SURFACES WITH GREASE-FREE CLEANER WITH A LINT-FREE CLOTH. DO NOT TOUCH CLEANED SURFACES WITH HANDS.
- 5. MELT**
USE HEATING TOOLS SPECIFICALLY MADE FOR SIMULTANEOUS HDPE PIPE END HEATING WITH INTERNAL THERMOMETERS AND ALIGNMENT GUIDES. SURFACE TEMPERATURE MUST BE BETWEEN 400°-450° F. BRING BOTH PIPE ENDS INTO CONTACT WITH HEATER. INITIALLY, UNDER MODERATE PRESSURE BRIEFLY, THEN RELEASED ONCE CONTACT ESTABLISHED. WHEN PROPER BEAD SIZE HAS BEEN ACHIEVED, REMOVE HEATER AND JOIN PIPE
- 6. JOINING**
QUICKLY INSPECT PIPE AFTER HEATER IS REMOVED. START OVER IF CONCAVE OR IRREGULAR MELT SURFACES OCCUR. IF ACCEPTABLE, IMMEDIATELY DRAW MOLTEN PIPE ENDS TOGETHER WITH SUFFICIENT FUSION FORCE (60 - 90 PSI) TO FORM A DOUBLE ROLLBACK BEAD AGAINST THE PIPE WALL.
- 7. HOLD**
HOLD THE JOINT IMMOBILE UNDER FUSION FORCE UNTIL THE JOINT HAS COOLED ADEQUATELY TO DEVELOP STRENGTH. ALLOW PROPER COOLING TIME BEFORE REMOVING CLAMPS. FUSION FORCE SHOULD BE HELD BETWEEN PIPE ENDS FOR APPROXIMATELY 30 - 90 SECONDS PER INCH OF PIPE DIAMETER. AVOID PULLING, INSTALLATION OR ROUGH HANDLING FOR AN ADDITIONAL 30 MINUTES AFTER COOLING.
- 8. INSPECTION**
CHECK AND COMPARE JOINT AGAINST MANUFACTURER'S RECOMMENDED APPEARANCE GUIDELINES. VISUALLY UNACCEPTABLE JOINTS SHOULD BE CUT OUT AND RE-FUSED USING THE CORRECT PROCEDURE.
- 9. BEAD REMOVAL**
WHERE NECESSARY, REMOVE EXTERNAL BEADS WITH MANUFACTURER RECOMMENDED TOOLS. CHECK, BEND, AND TWIST REMOVED BEAD. BEADS THAT RIP, TEAR, OR KINK SHALL BE INDICATIVE OF A POOR JOINT AND PROCESS SHALL BE RESTARTED.



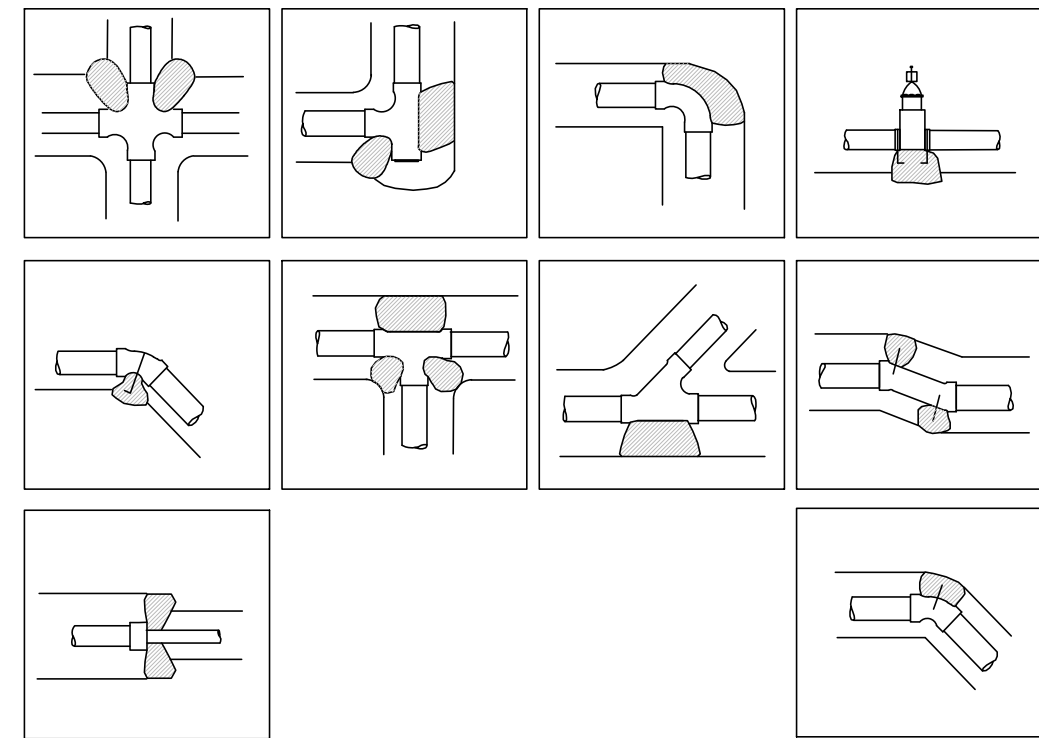
26 HDPE PIPE INSTALLATION
C-207 NOT TO SCALE



- NOTES:
1. REFER TO DETAIL 2 / DRAWING C-201 FOR PIPES THROUGH ARMOR STONE DETAIL.
 2. FOR AERATION PORTS AT THE END OF A DISCHARGE AND AERATION LINE, INCLUDE END CAPS.



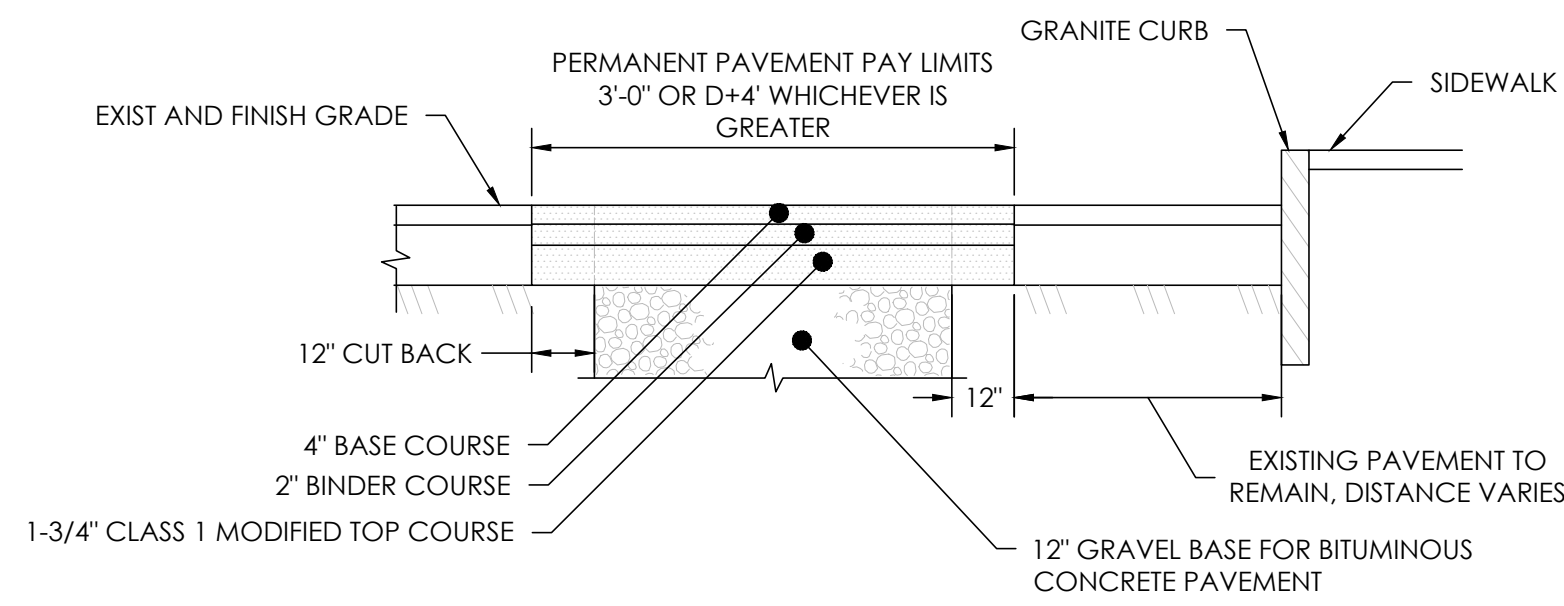
27 DISCHARGE AERATION PORT
C-207 NOT TO SCALE



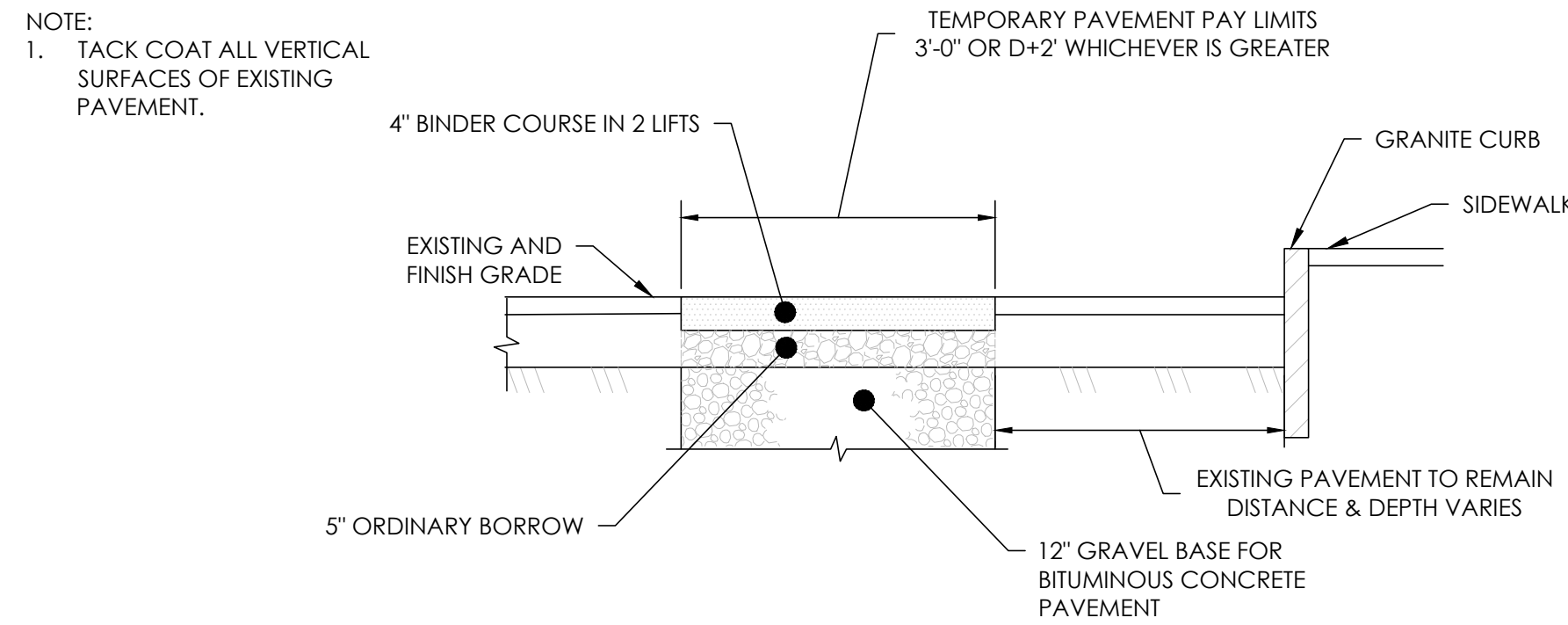
CONTRACTOR RESPONSIBLE FOR PROPER SIZING AND PLACEMENT OF CONCRETE THRUST BLOCKS AS PER ASAE STANDARD 376.1 THRUST BLOCKS REQUIRED ON BELL & GASKET PIPE AND FITTINGS ONLY.

28 THRUST BLOCKING
C-207 NOT TO SCALE

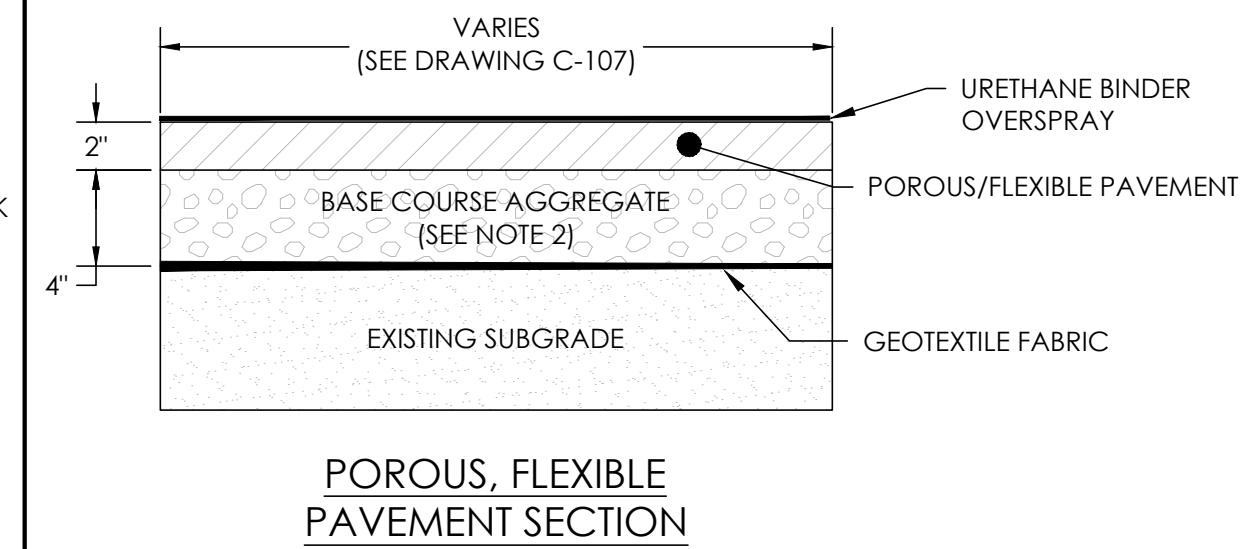
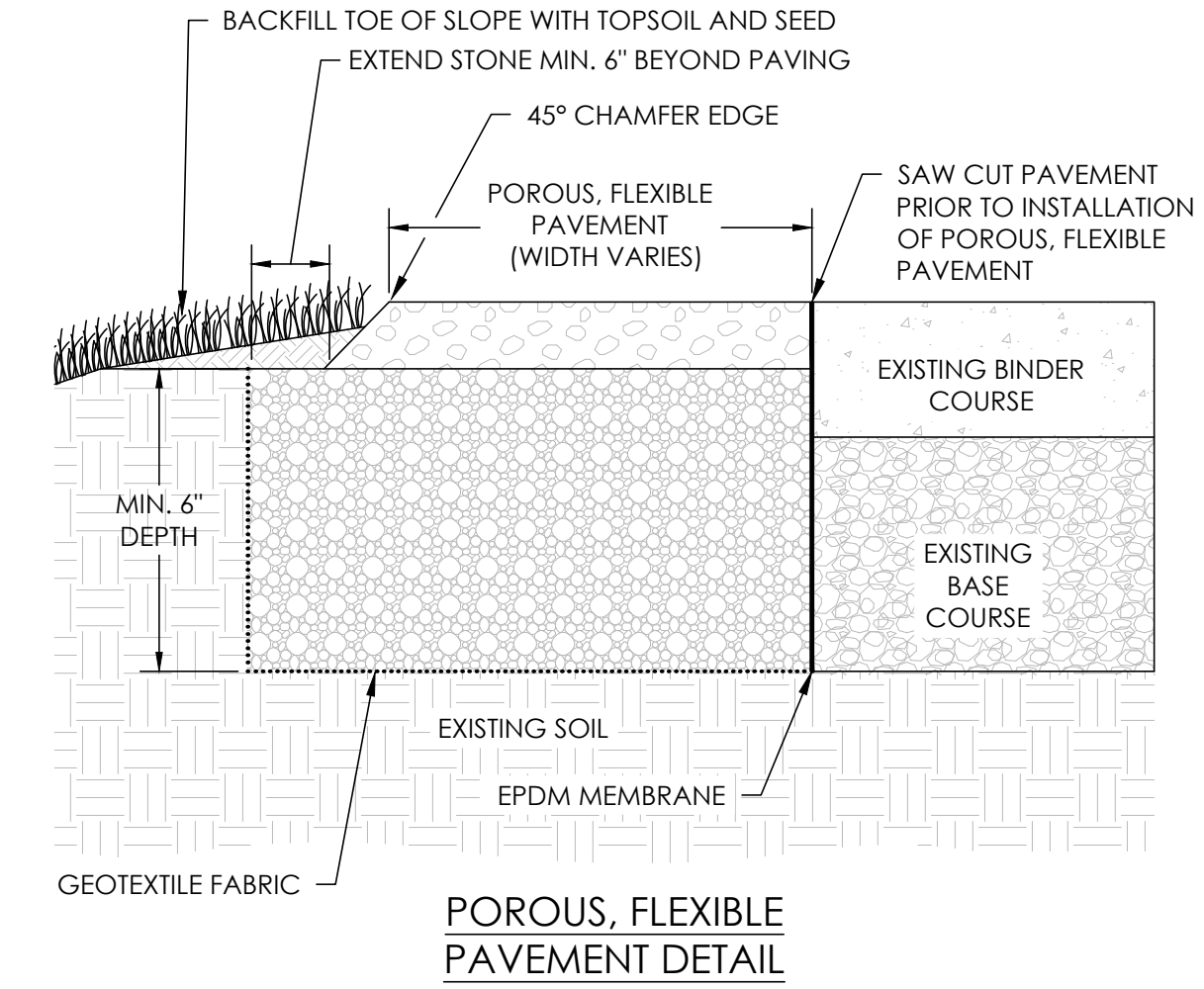
- NOTE:
1. TACK COAT ALL VERTICAL SURFACES OF EXISTING PAVEMENT.



29 PERMANENT TRENCH PAVEMENT
C-207 NOT TO SCALE

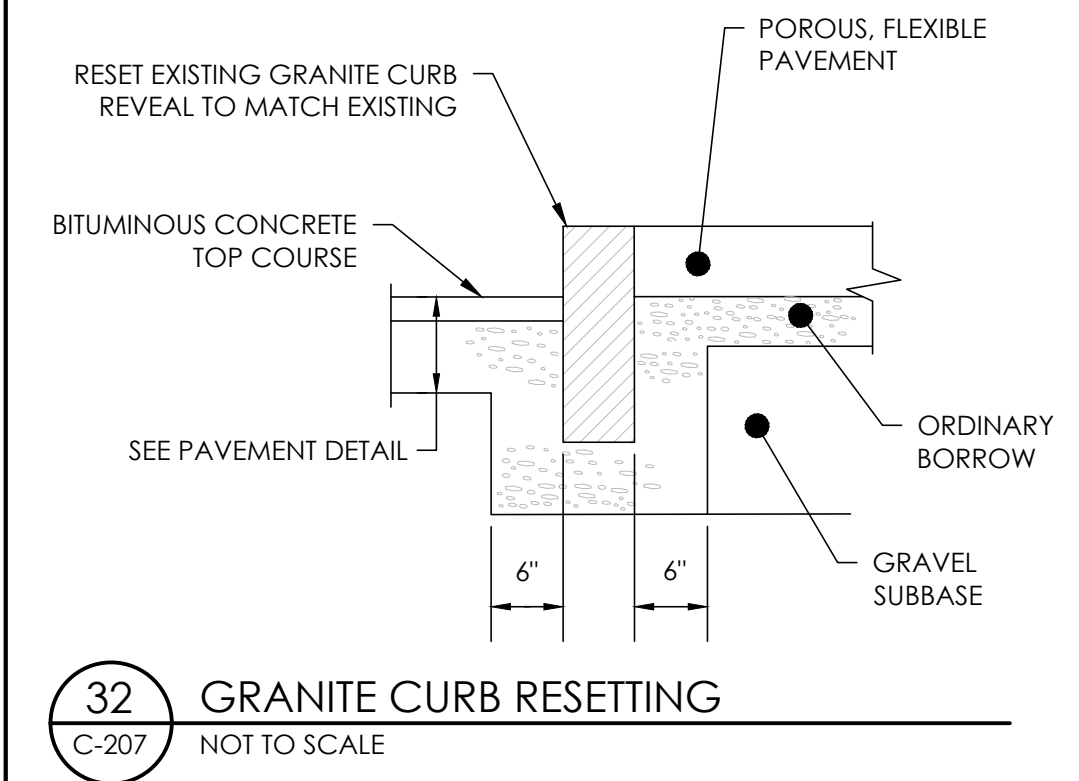


30 TEMPORARY TRENCH PAVEMENT
C-207 NOT TO SCALE

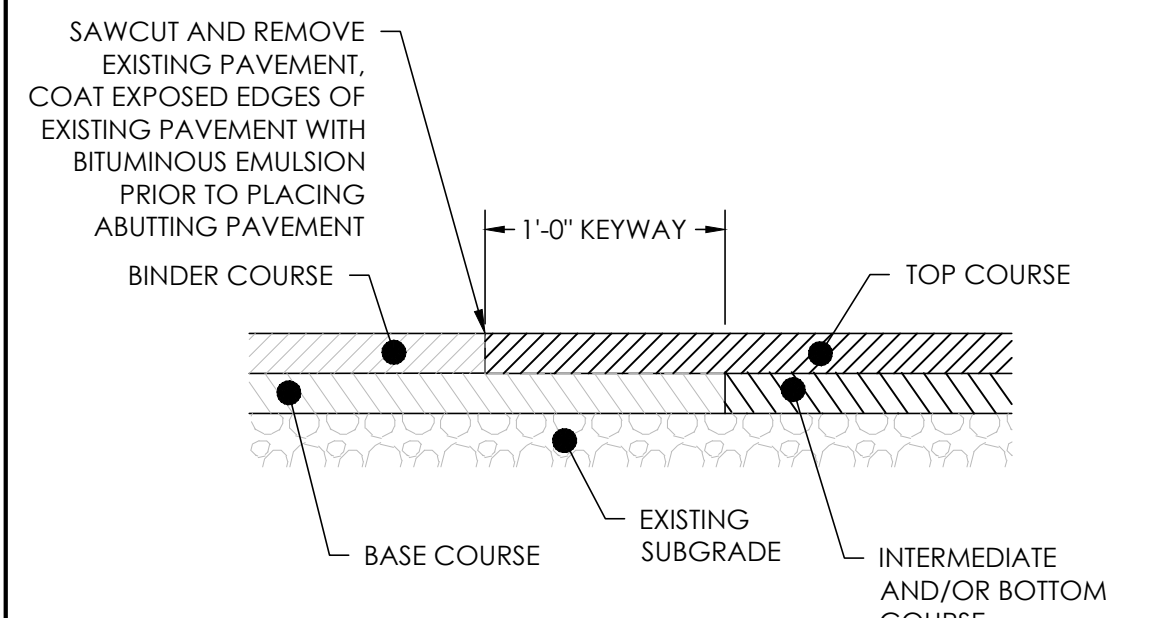


- NOTE:
1. BEVEL EXPOSED POROUS, FLEXIBLE PAVEMENT EDGES INTO EXISTING GRADE WITH 45° CHAMFERS.
 2. EXTEND BASE COARSE AGGREGATE AND GEOTEXTILE FABRIC 6" BEYOND POROUS/FLEXIBLE PAVEMENT WHEN ADJACENT TO LANDSCAPE/SOFTSCAPE.

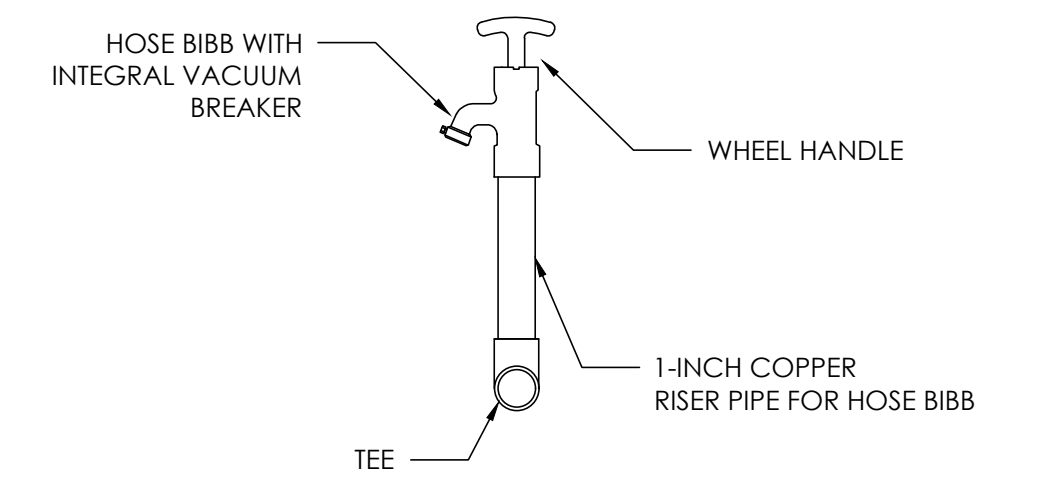
31 POROUS, FLEXIBLE PAVEMENT
C-207 NOT TO SCALE



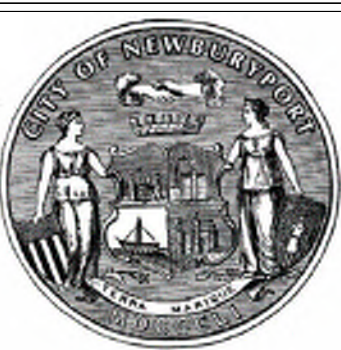
32 GRANITE CURB RESETTING
C-207 NOT TO SCALE



33 CONNECTION TO EXISTING PAVEMENT
C-207 NOT TO SCALE



34 HOSE BIBB
C-207 NOT TO SCALE



CITY OF NEWBURYPORT
60 PLEASANT STREET
NEWBURYPORT, MA 01950

REV NO	DATE	DRAWN	CHKD	DESCRIPTION
REV 0	8/1/23	AEH	MI	BID SET
Rev No	Date	Drown	Chkd	Description

Designed By:
A. Hammond

Checked By:
M. Igo

Date:
8-1-2023

SCALE: AS SHOWN

BID SET - NOT FOR CONSTRUCTION

BARTLET MALL FROG POND
RESTORATION PROJECT

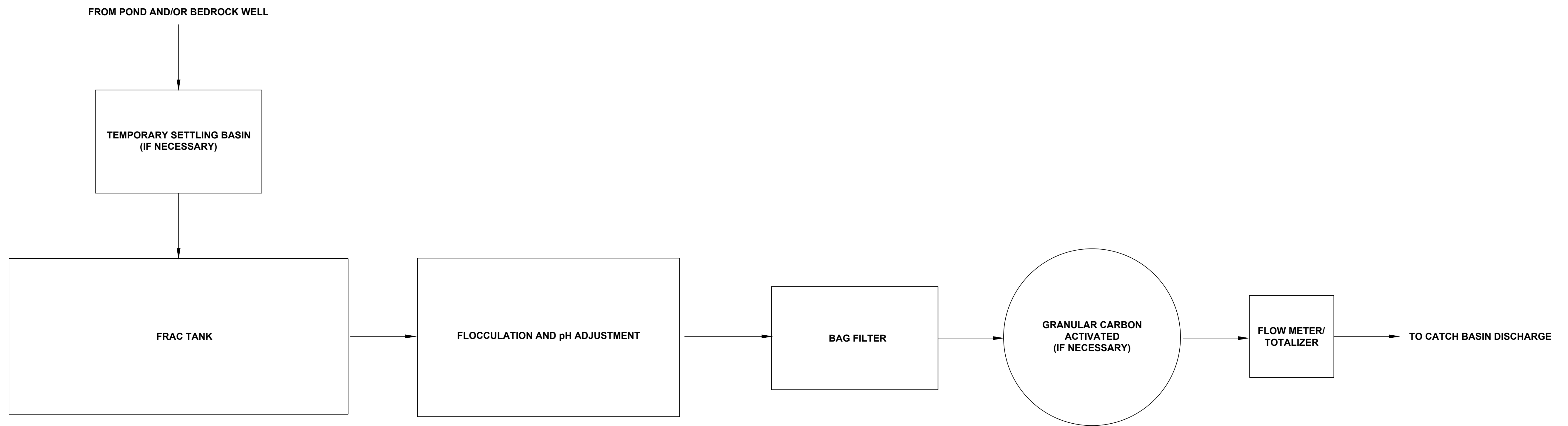
CIVIL DETAILS - 6

Sheet No.

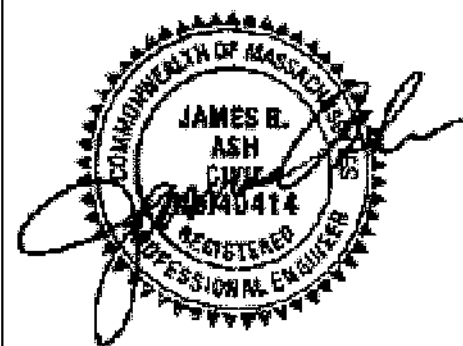
C-207



Michael Igo
8/1/23

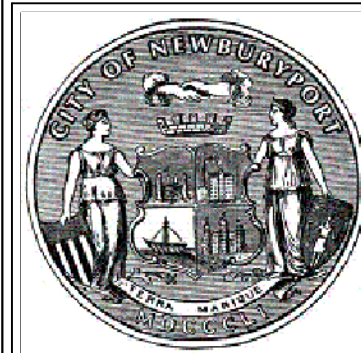


PROCESS FLOW DIAGRAM
NO SCALE



NOTES:
1. NPDES = NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM.

BID SET - NOT FOR CONSTRUCTION



CITY OF NEWBURYPORT
60 PLEASANT STREET
NEWBURYPORT, MA 01950



Rev No	Date	Drawn	Chkd	Description
REVO	08/01/23		K.W.	BID SET

Designed By:
J.M.
Checked By:
K.W.
Date:
08-01-2023

**BARTLET MALL FROG POND
RESTORATION PROJECT
NPDES WATER TREATMENT SYSTEM
PROCESS FLOW DIAGRAM**

Sheet No.

C-300

NOTE:
1. REFER TO SECTION 33 1200 - PUMP SYSTEM FOR SEQUENCE OF OPERATIONS.

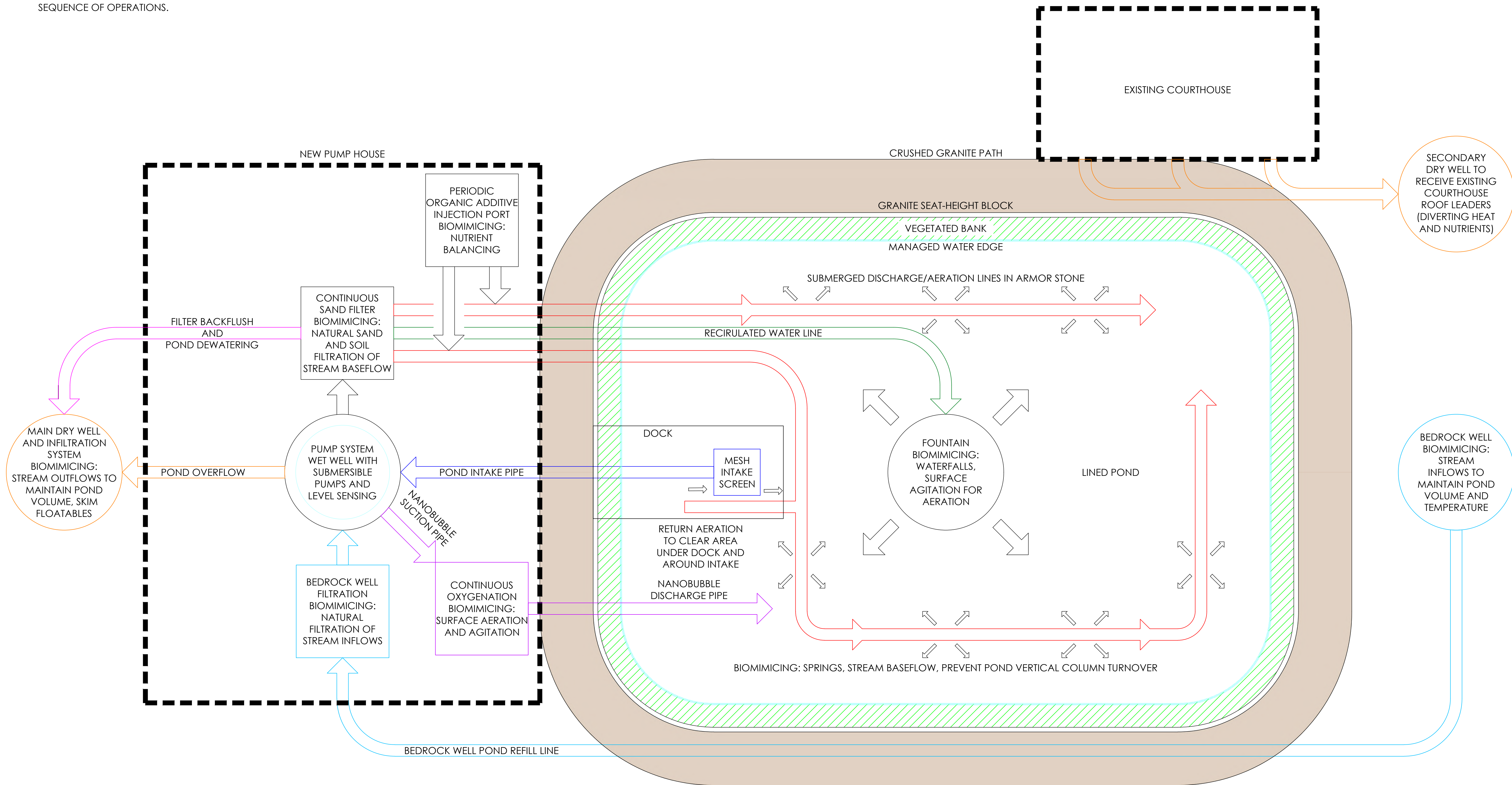


DIAGRAM NOT TO SCALE:
PROVIDED TO DEMONSTRATE WATER FLOW PATHS FOR
POND WATER QUALITY

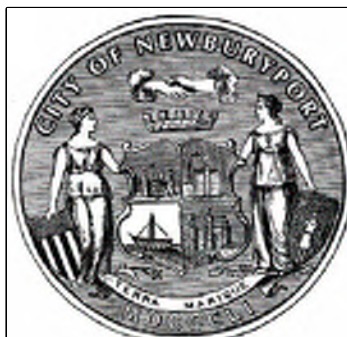


BID SET - NOT FOR CONSTRUCTION

**BARTLET MALL FROG POND
RESTORATION PROJECT
WATER QUALITY SYSTEM
ONE LINE DIAGRAM**

Sheet No.

C-301



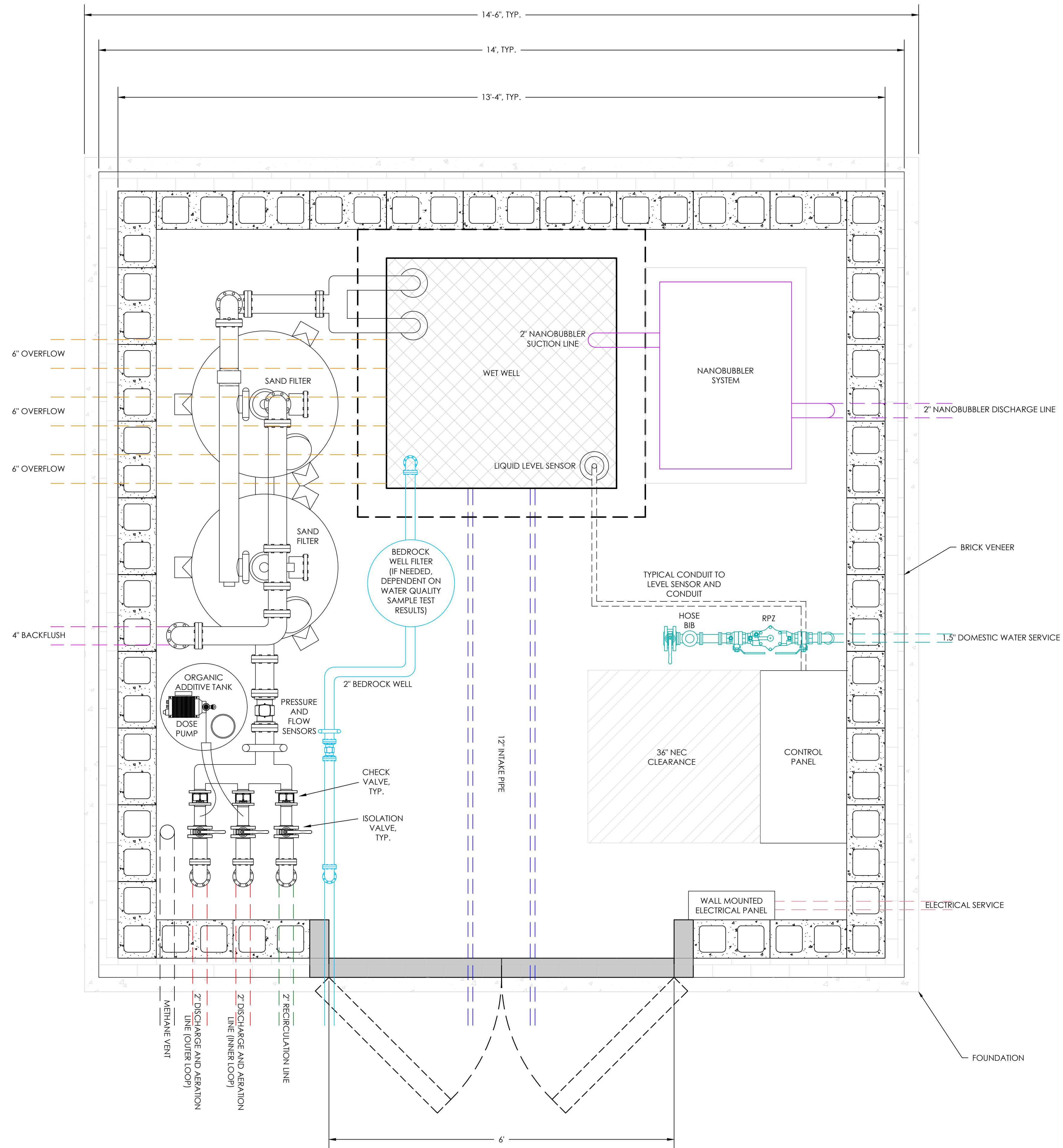
CITY OF NEWBURYPORT
60 PLEASANT STREET
NEWBURYPORT, MA 01950

REV No	Date	Drawn	Chkd	Description
REV 0	8/1/23	AEH	MI	BID SET
Revisions				

Designed By:
A. Hammond
Checked By:
M. Igo
Date:
8-1-2023

SCALE: NONE

NOTE:
 1. REFER TO SECTION 33 1200 - PUMP SYSTEM FOR INTERIOR BUILDING AND EQUIPMENT REQUIREMENTS.



Michael Igo
 8/1/23

BID SET - NOT FOR CONSTRUCTION

**BARTLET MALL FROG POND
 RESTORATION PROJECT
 PUMP SYSTEM
 INTERIOR LAYOUT**

Sheet No.

C-302

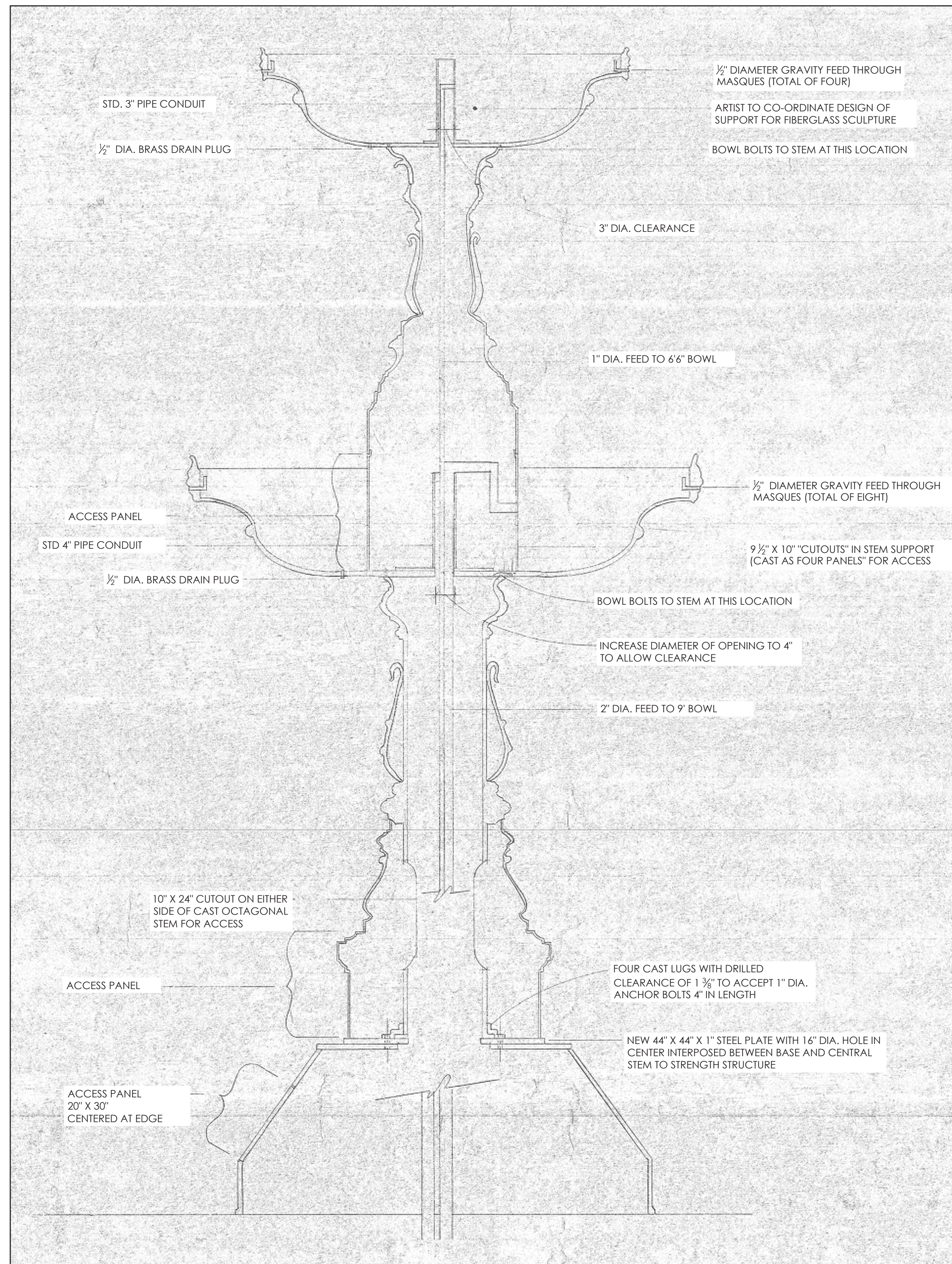


CITY OF NEWBURYPORT
 60 PLEASANT STREET
 NEWBURYPORT, MA 01950

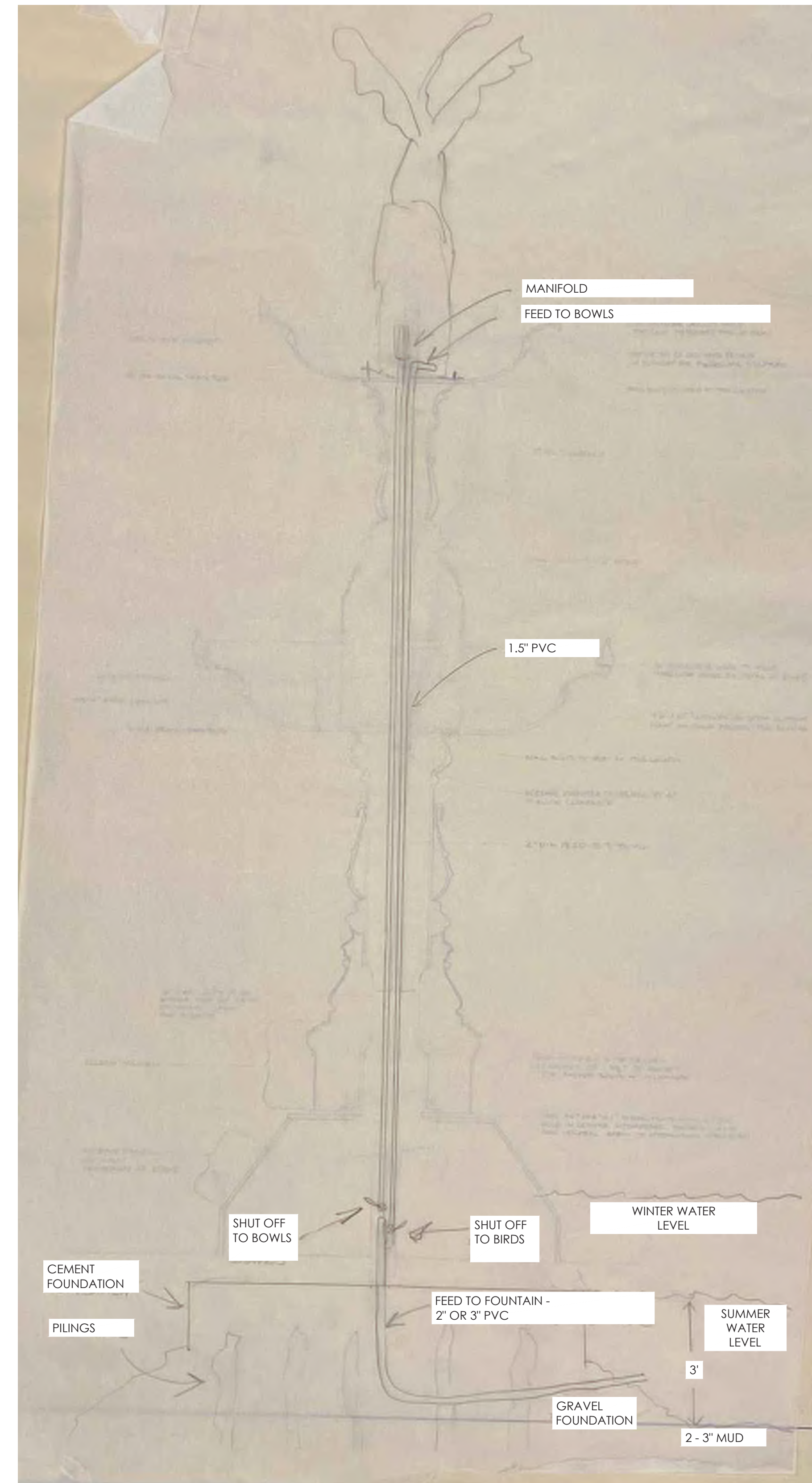
Rev No	Date	Drawn	Chkd	Description
REV 0	8/1/23	AEH	MI	BID SET
Revisions				

Designed By:
 A. Hammond
 Checked By:
 M. Igo
 Date:
 8-1-2023

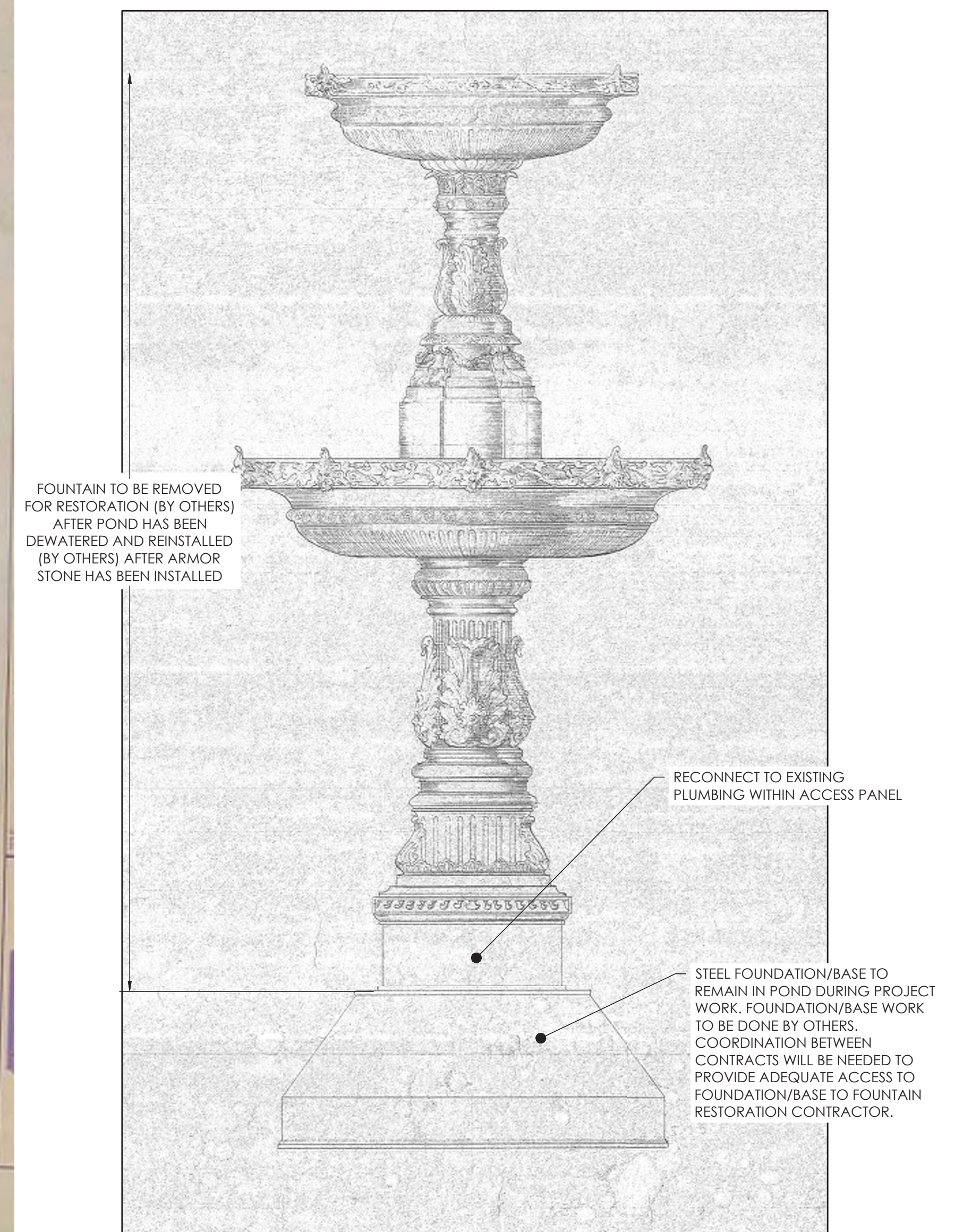
SCALE: NONE



FOUNTAIN STRUCTURE (AS-BUILT)

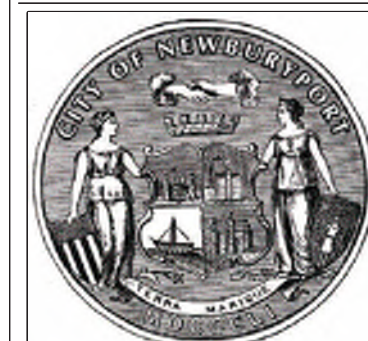


FOUNTAIN PLUMBING (AS-BUILT)



FOUNTAIN RENDERING (NEW WORK)

- NOTE:
1. THESE AS-BUILT RECORDS ARE FROM SUMMER 1988 AND ARE FOR INFORMATION PURPOSES ONLY. AS-BUILT RECORDS WERE COMPILED FROM AVAILABLE DRAWINGS AND ARE NOT WARRANTED TO BE CORRECT. THE LOCATIONS, DIMENSIONS, AND APPURTENANCES ARE APPROXIMATE ONLY AND IN SOME CASES MAYBE INCOMPLETE.
 2. HARD COPIES OR ELECTRONIC FILES OF ORIGINALS CAN BE REQUESTED.



CITY OF NEWBURYPORT
60 PLEASANT STREET
NEWBURYPORT, MA 01950

REV No	Date	Drawn	Chkd	Description
REV 0	8/1/23	AEH	MI	BID SET
				Revisions

Designed By:
A. Hammond

Checked By:
M. Igo

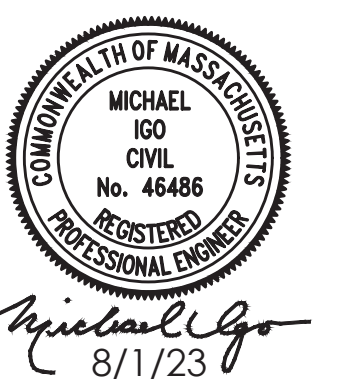
Date:
8-1-2023

SCALE: NONE

BID SET - NOT FOR CONSTRUCTION

BARTLET MALL FROG POND RESTORATION PROJECT

FOUNTAIN AS-BUILTS



Sheet No.

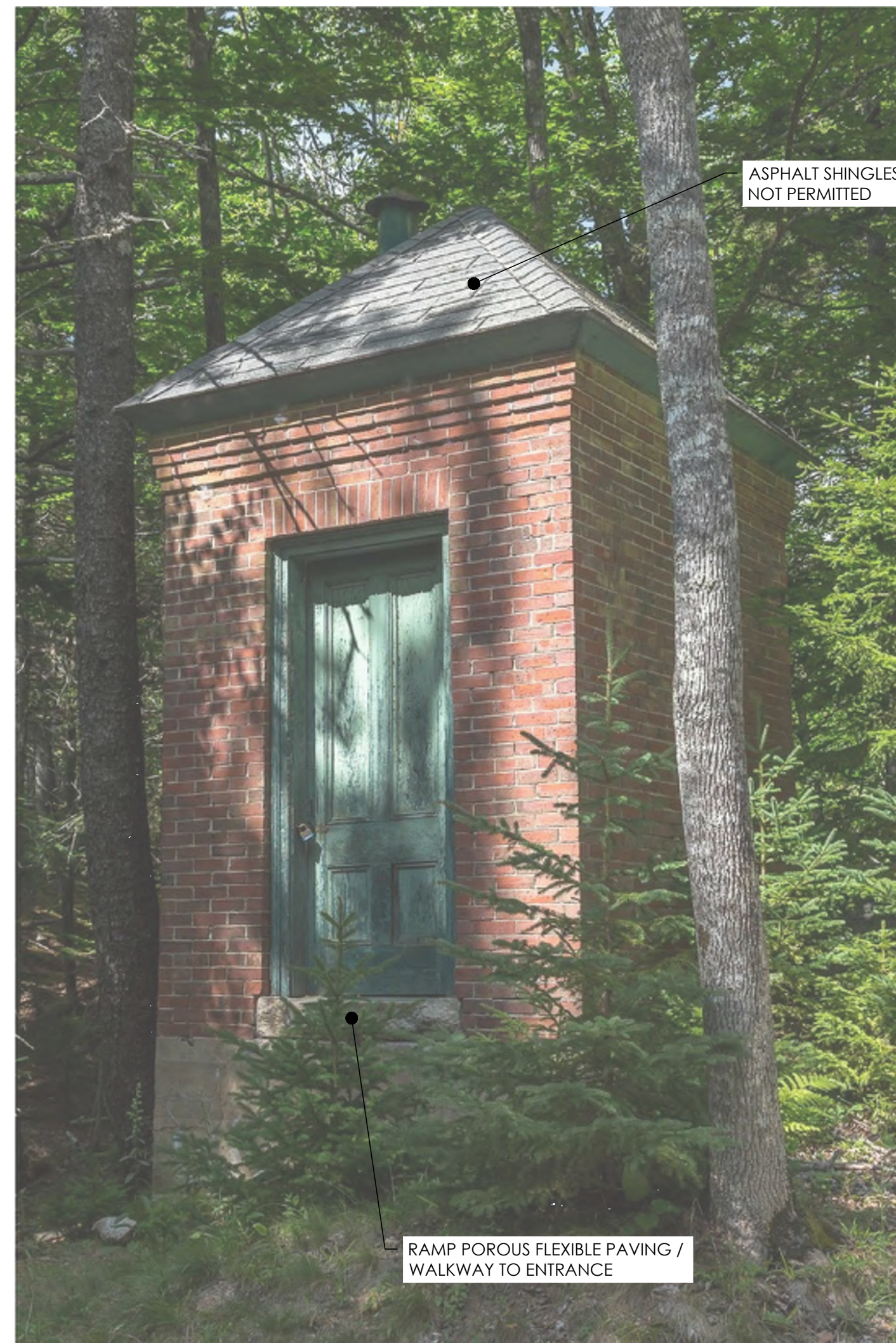
C-303

PRECEDENT IMAGES

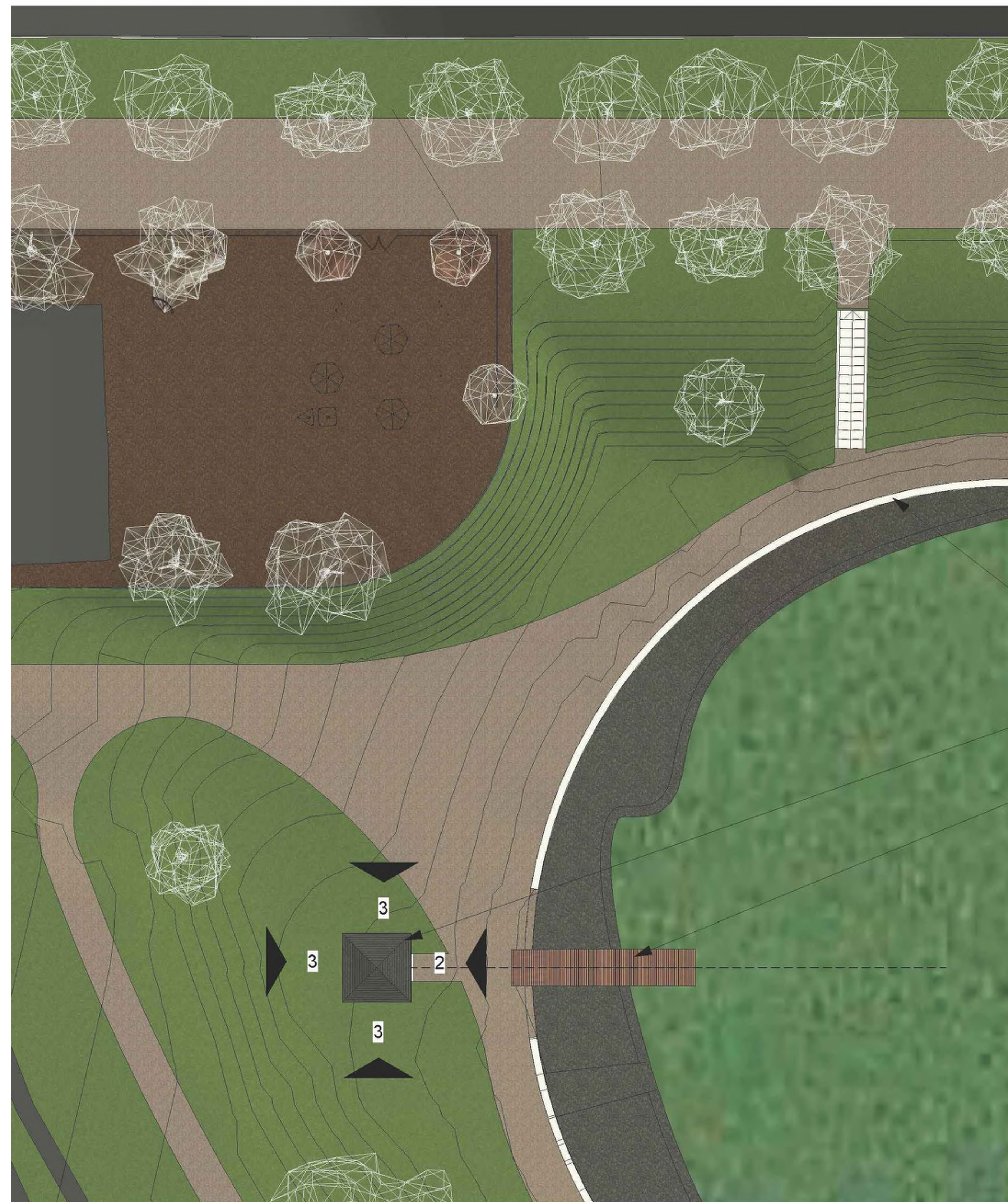
NOTE:
1. REFER TO SECTION 33 1201 - PUMP SYSTEM BUILDING FOR BUILDING REQUIREMENTS AND FEATURES.



ROCKPORT, ME



ACADIA NATIONAL PARK



2 Door Elevation NOT TO SCALE
3 Typical Wall Elevation NOT TO SCALE

EXTERIOR CLADDING TO BE MASONRY

20" WIDE STONE EDGE

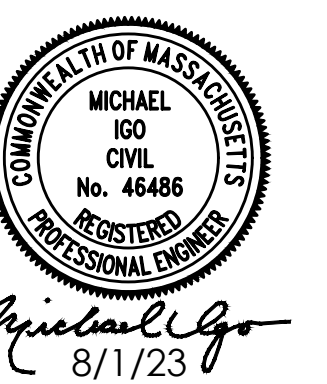
PUMPHOUSE

DOCK



CONCEPT RENDERINGS PROVIDED BY LOCAL ARCHITECT AND CITIZENS DONATED TO CITY
(BASIS OF DELEGATED DESIGN FOR PUMP BUILDING)

BID SET - NOT FOR CONSTRUCTION



CITY OF NEWBURYPORT
60 PLEASANT STREET
NEWBURYPORT, MA 01950

REV No	Date	Drawn	Chkd	Description
REV 0	8/1/23	AEH	MI	BID SET
Revisions				

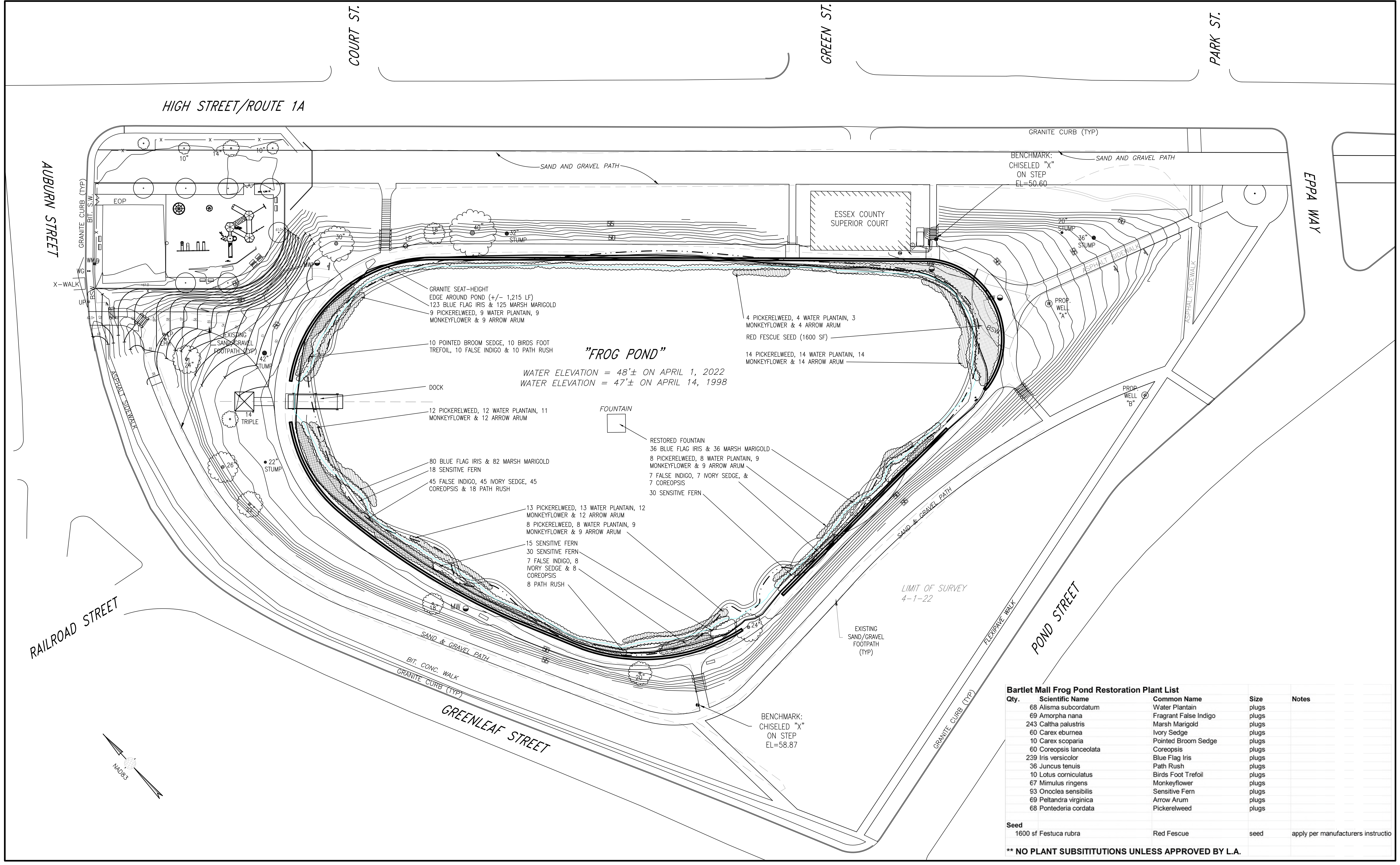
Designed By:
A. Hammond
Checked By:
M. Igo
Date:
8-1-2023

SCALE: NONE

**BARTLET MALL FROG POND
RESTORATION PROJECT
PUMP SYSTEM EXTERIOR
DELEGATED DESIGN**

Sheet No.

C-400



"FROG POND"
 WATER ELEVATION = 48'± ON APRIL 1, 2022
 WATER ELEVATION = 47'± ON APRIL 14, 1998

Qty.	Scientific Name	Common Name	Size	Notes
68	<i>Alisma subcordatum</i>	Water Plantain	plugs	
69	<i>Amorpha nana</i>	Fragrant False Indigo	plugs	
243	<i>Caltha palustris</i>	Marsh Marigold	plugs	
60	<i>Carex eburnea</i>	Ivory Sedge	plugs	
10	<i>Carex scoparia</i>	Pointed Broom Sedge	plugs	
60	<i>Coreopsis lanceolata</i>	Coreopsis	plugs	
239	<i>Iris versicolor</i>	Blue Flag Iris	plugs	
36	<i>Juncus tenuis</i>	Path Rush	plugs	
10	<i>Lotus corniculatus</i>	Birds Foot Trefoil	plugs	
67	<i>Mimulus ringens</i>	Monkeyflower	plugs	
93	<i>Onoclea sensibilis</i>	Sensitive Fern	plugs	
69	<i>Pellandria virginica</i>	Arrow Arum	plugs	
68	<i>Pontederia cordata</i>	Pickereelweed	plugs	
Seed				
	1600 sf <i>Festuca rubra</i>	Red Fescue	seed	apply per manufacturers instructio

**** NO PLANT SUBSTITUTIONS UNLESS APPROVED BY L.A.**

	CITY OF NEWBURYPORT 60 PLEASANT STREET NEWBURYPORT, MA 01950	<table border="1"> <tr> <td>4</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>7/25/23</td> <td>KT</td> <td>Revised planting</td> </tr> <tr> <td>1</td> <td>7/11/23</td> <td>KT</td> <td>Revised planting</td> </tr> <tr> <th>Rev No</th> <th>Date</th> <th>Drawn</th> <th>Chkd</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>	4				3				2	7/25/23	KT	Revised planting	1	7/11/23	KT	Revised planting	Rev No	Date	Drawn	Chkd													Designed By: Kim Turner Checked By: Date: 12-01-2022	SCALE: 1" = 30' 	BARTLET MALL RESTORATION PROJECT PLANTING PLAN	Sheet No. L-100
	4																																					
3																																						
2	7/25/23	KT	Revised planting																																			
1	7/11/23	KT	Revised planting																																			
Rev No	Date	Drawn	Chkd																																			