

Prepared for The:

TOWN OF WAYLAND CONSERVATION COMMISSION

SNAKE BROOK DAM REHABILITATION

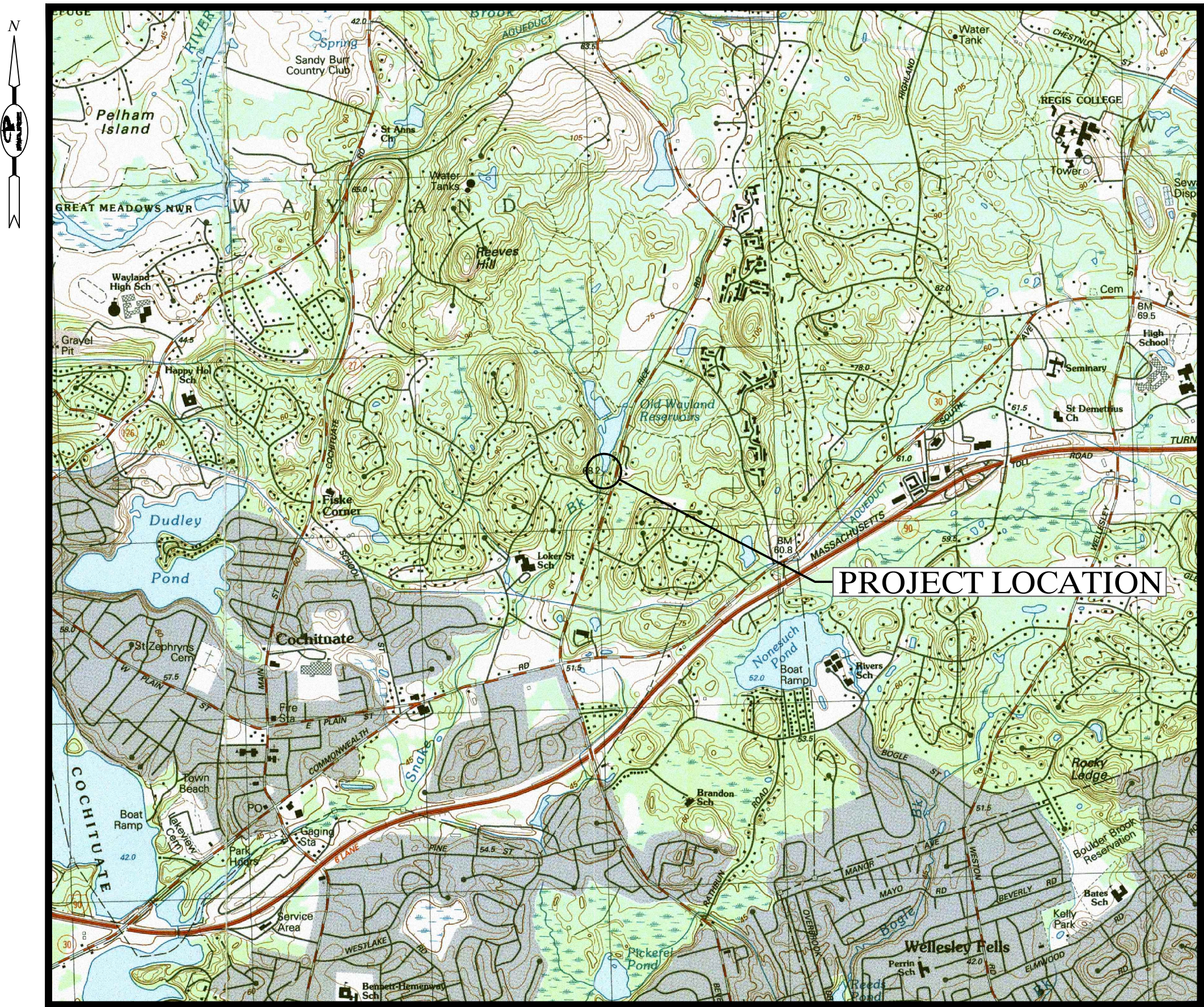
MA01119

WAYLAND, MASSACHUSETTS

SEPTEMBER 2022

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- 1.0 GENERAL NOTES AND LEGEND
- 2.0 FULL IMPOUNDMENT PLAN
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- 3.3 LOW LEVEL OUTLET SECTIONS AND DETAILS
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- 3.5 WETLAND REPLICATION PLAN
- 4.0 MISCELLANEOUS DETAILS



LOCUS PLAN

SCALE: 1" = 2000'



AERIAL PLAN

SCALE: 1" = 400'



Prepared by:

PARE CORPORATION

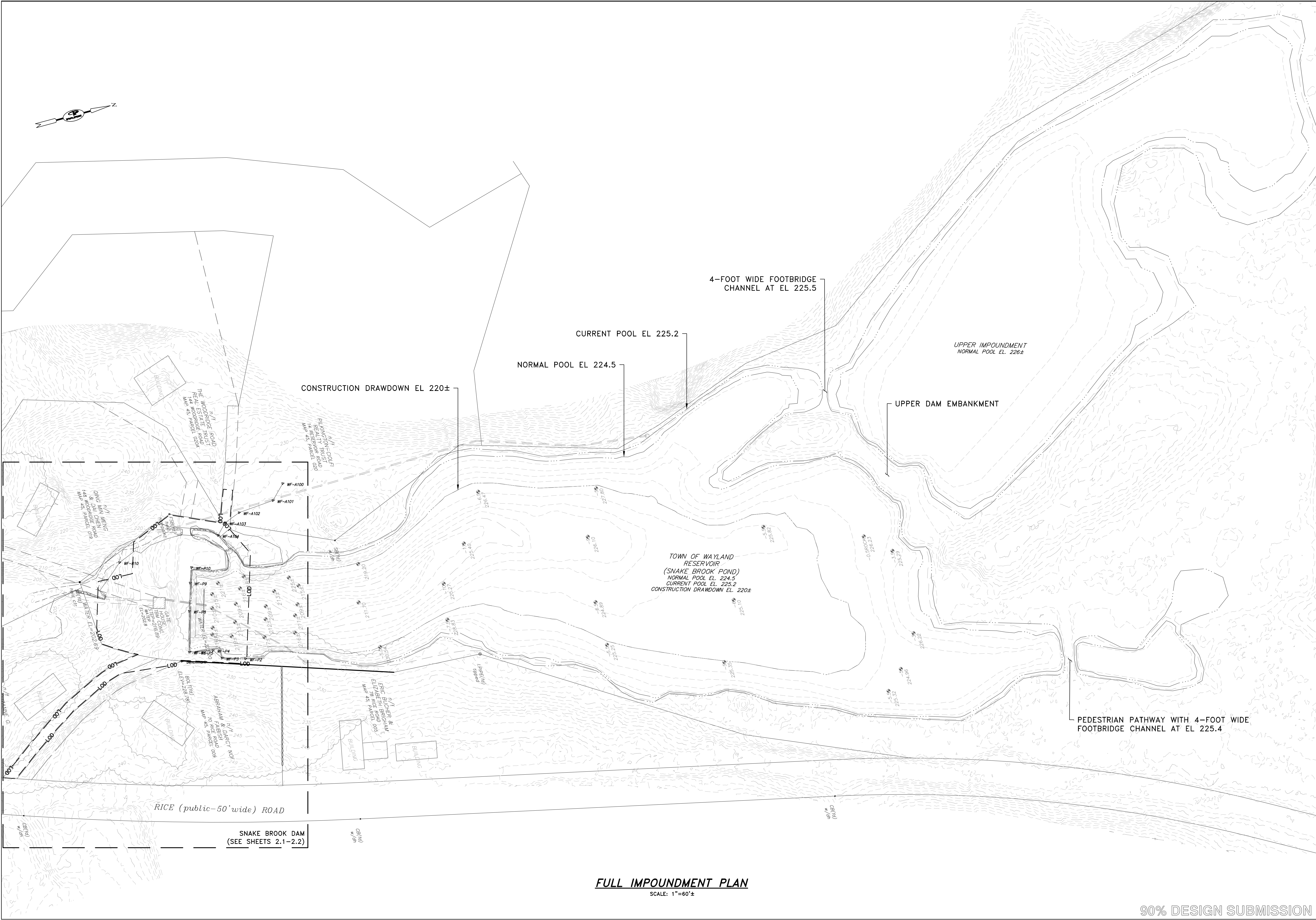
Foxboro, Massachusetts













FULL IMPOUNDMENT PLAN  
SCALE: 1"=60'±

90% DESIGN SUBMISSION



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SCALE ADJUSTMENT  
GUIDE  
0" 1"  
BAR IS ONE INCH ON  
ORIGINAL DRAWING.

Snake Brook Dam Rehabilitation  
MA01119  
Wayland, Massachusetts  
Town of Wayland Conservation Commission

REVISIONS:	

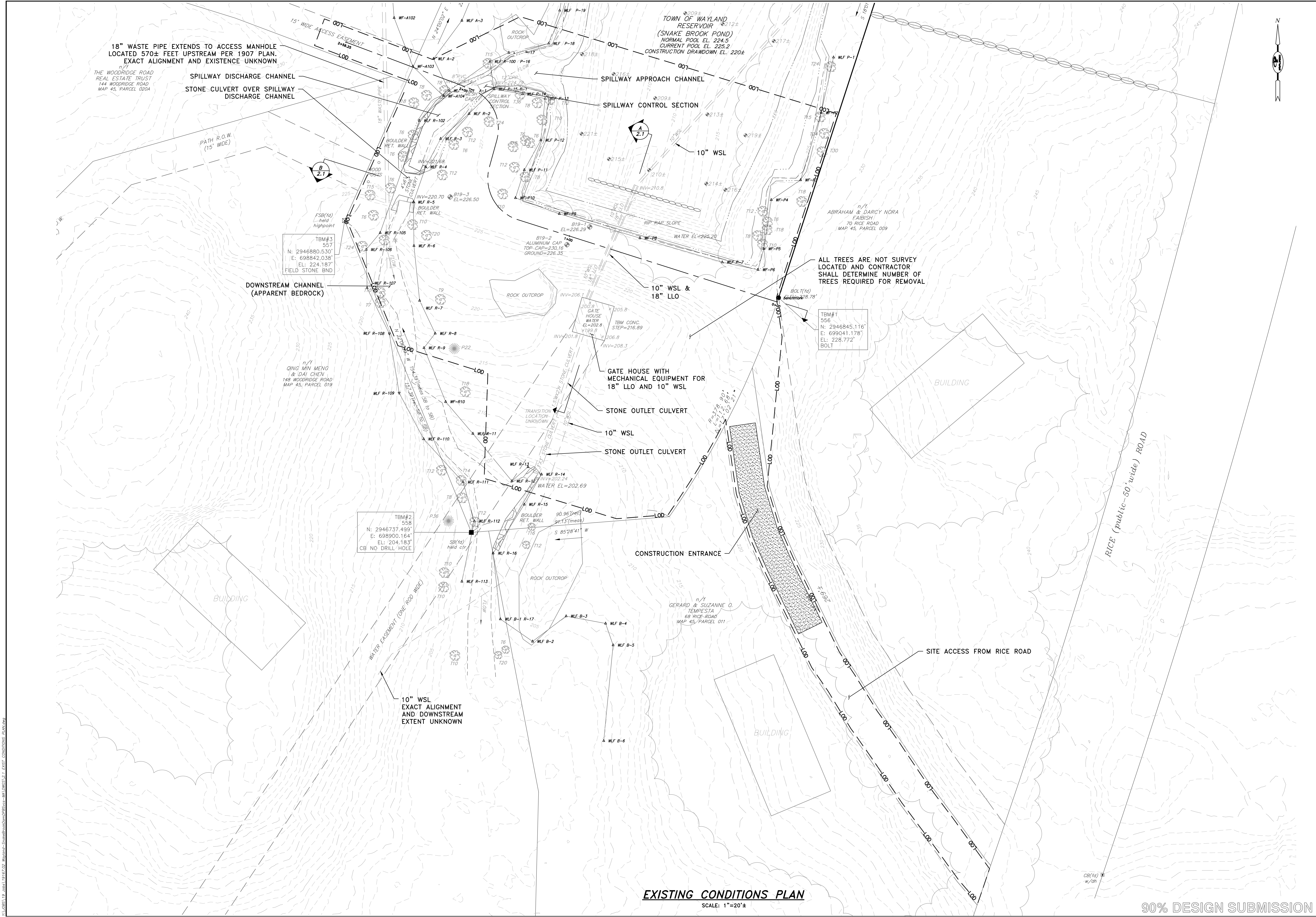
PROJECT NO.:	19167.02
DATE:	SEPTEMBER 2022
SCALE:	AS NOTED
DESIGNED BY:	MLP
CHECKED BY:	MED
DRAWN BY:	LMC
APPROVED BY:	ARO


FULL IMPOUNDMENT  
PLAN

SHEET NO.:


2.0







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SEAL OF THE TOWN OF WAYLAND, MASSACHUSETTS

SCALE ADJUSTMENT GUIDE

0" 1"

BAR IS ONE INCH ON ORIGINAL DRAWING.

# Snake Brook Dam Rehabilitation

MA01119  
Wayland, Massachusetts  
TOWN OF WAYLAND CONSERVATION COMMISSION

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EXISTING  
CONDITIONS PLAN

SHEET NO.: 2.1

P:\19167\19\_000\19167.02 Wayland-SnakeBrookDamRehabilitation-MA\DWG\2.1 - EXIST CONDITIONS PLAN.dwg





SCALE ADJUSTMENT  
GUIDE  
0" 1"  
BAR IS ONE INCH ON  
ORIGINAL DRAWING.

SNAKE BROOK DAM REHABILITATION  
MA01119  
WAYLAND, MASSACHUSETTS  
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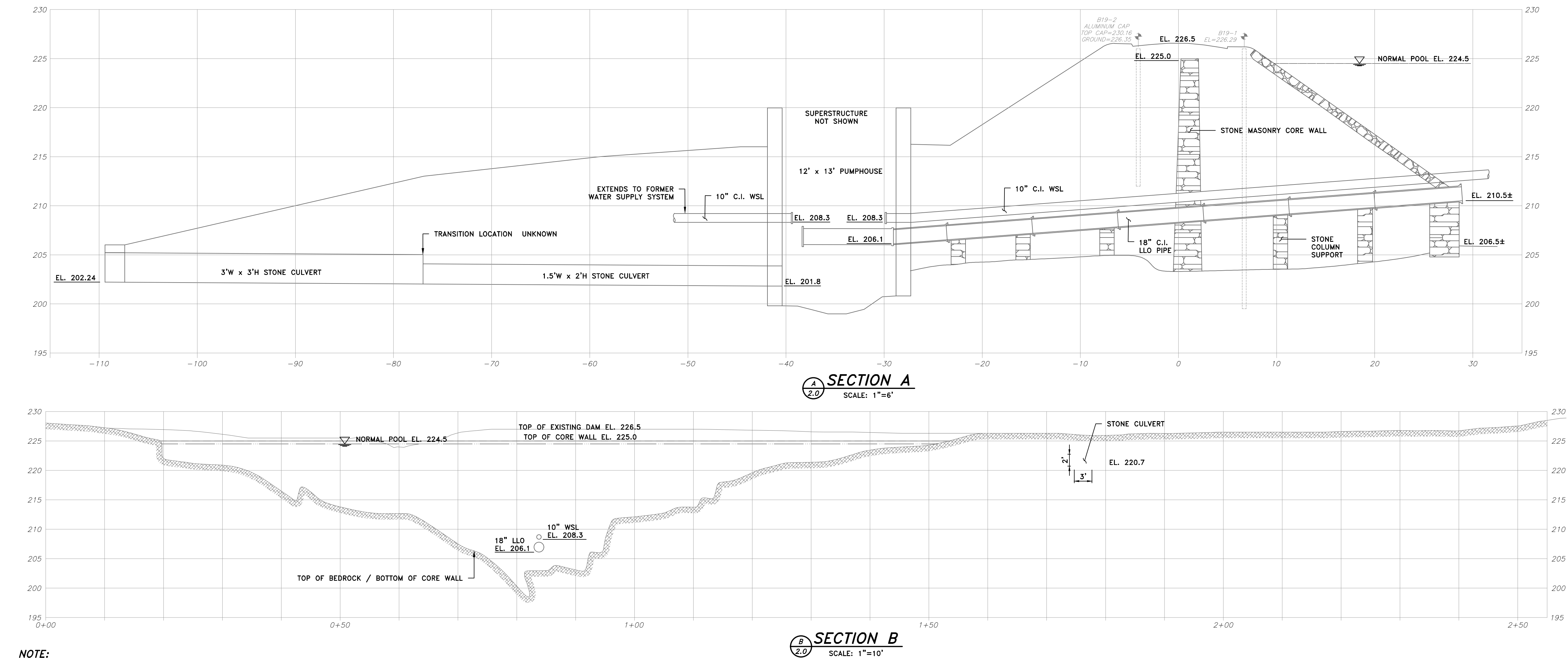
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EXISTING CONDITIONS  
SECTIONS & DETAILS

SHEET NO.:

2.2



**NOTE:**  
BOTH SECTIONS A AND B ON THIS SHEET WERE DEVELOPED UPON  
INFORMATION PROVIDED WITHIN THE 1897 HISTORICAL DRAWINGS OF THE DAM.

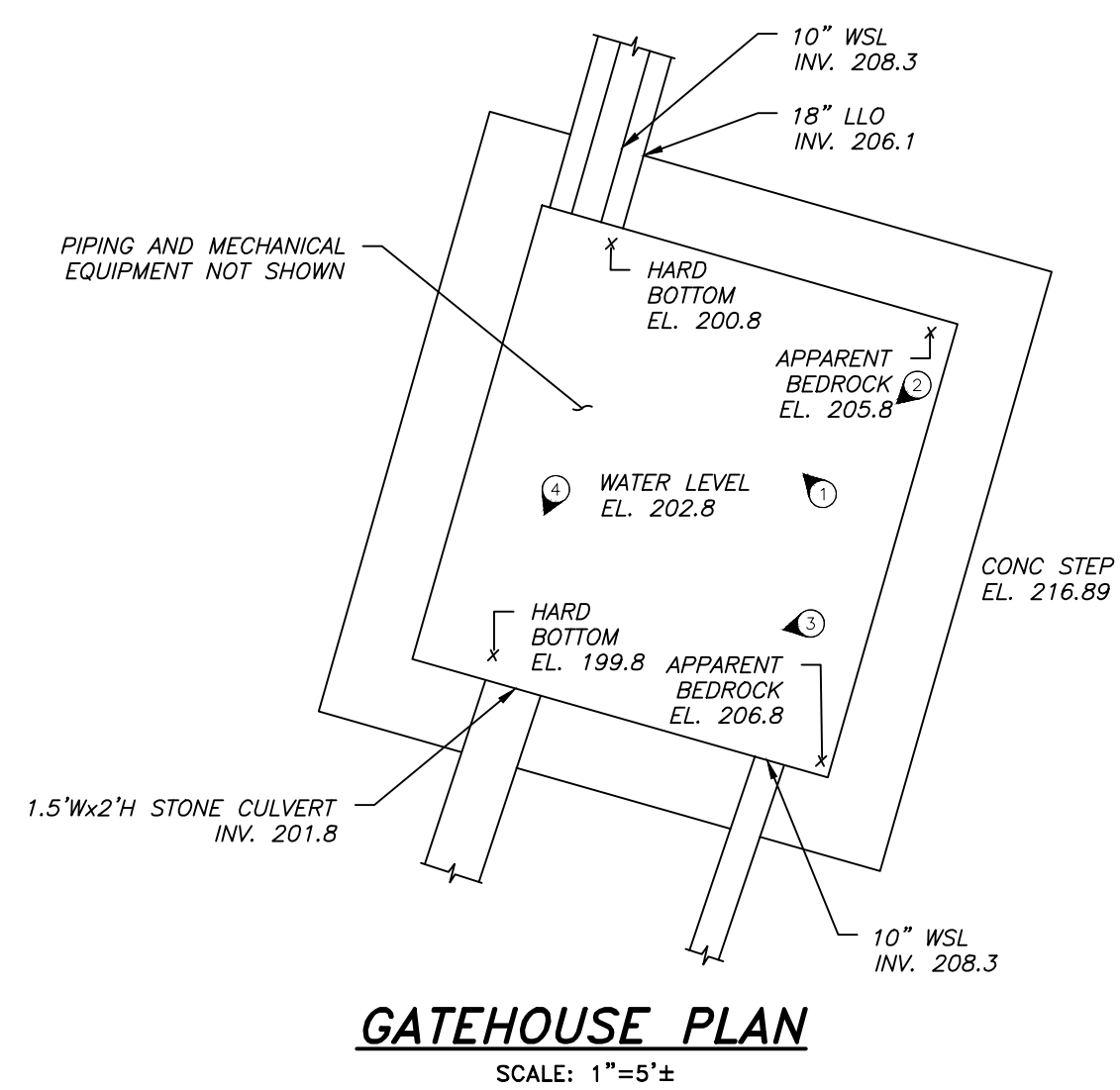


PHOTO 1



PHOTO 2



PHOTO 3

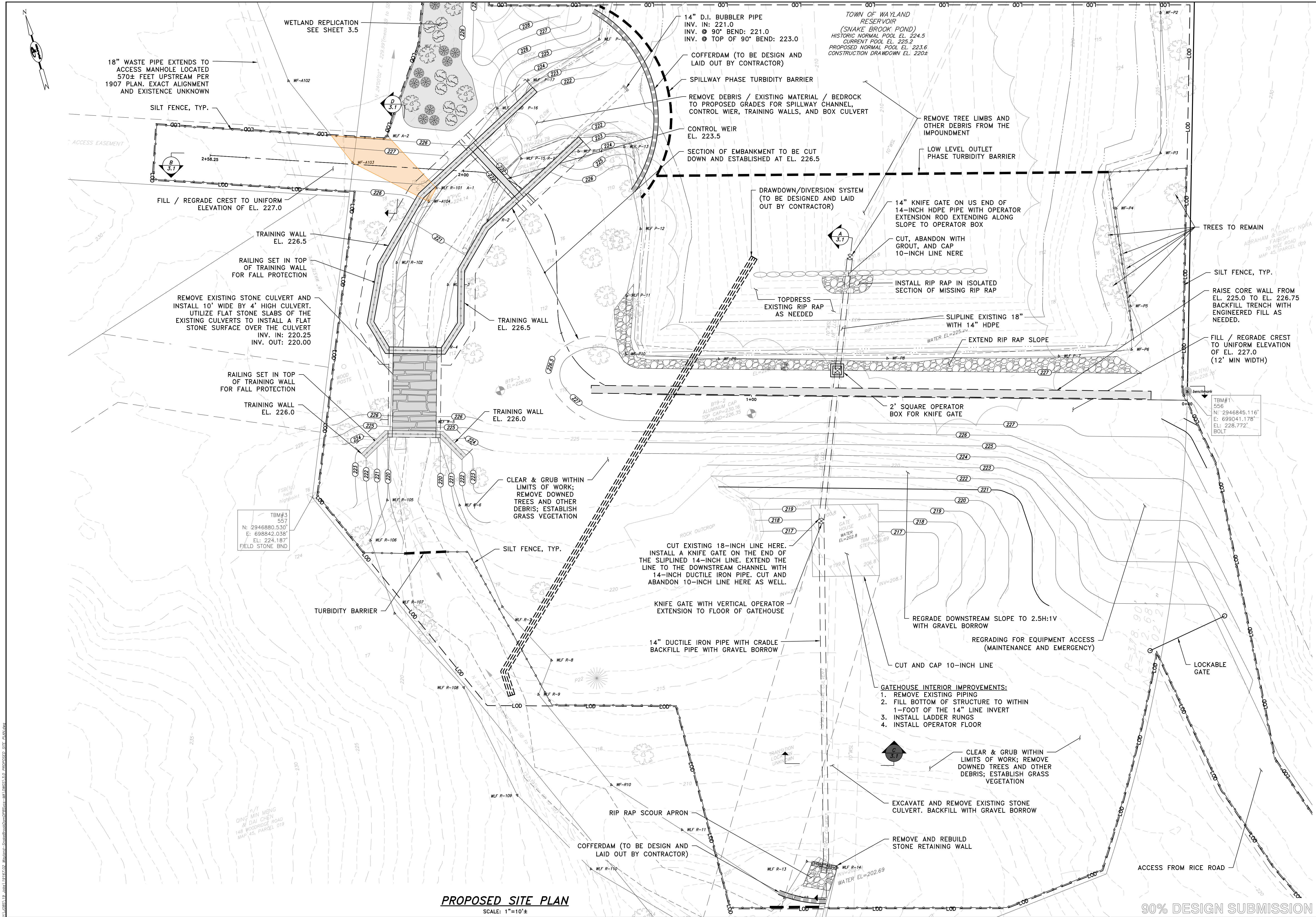



PHOTO 4

PUMP HOUSE PHOTOS


90% DESIGN SUBMISSION







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SEAL OF THE TOWN OF WAYLAND

SCALE ADJUSTMENT GUIDE

0" 1"

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### Snake Brook Dam Rehabilitation

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Wayland, Massachusetts  
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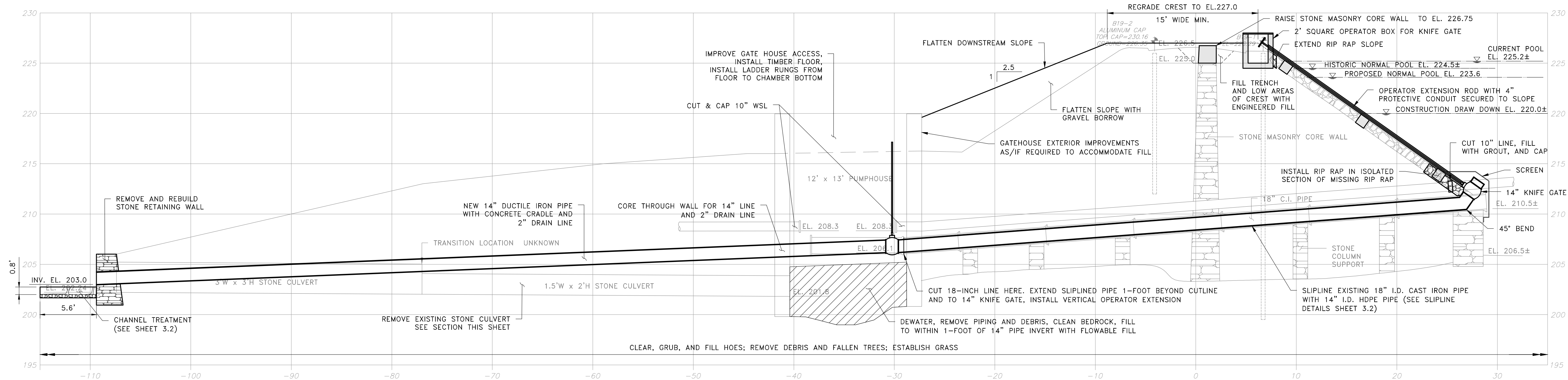
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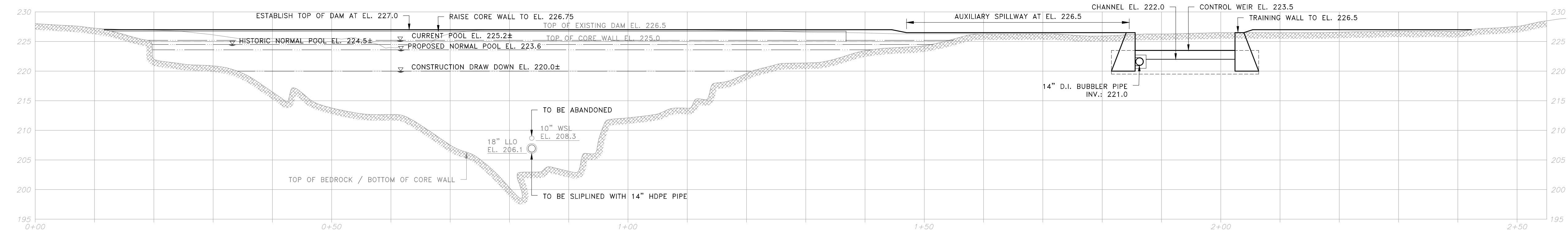
PROPOSED SITE PLAN

SHEET NO.: 3.0

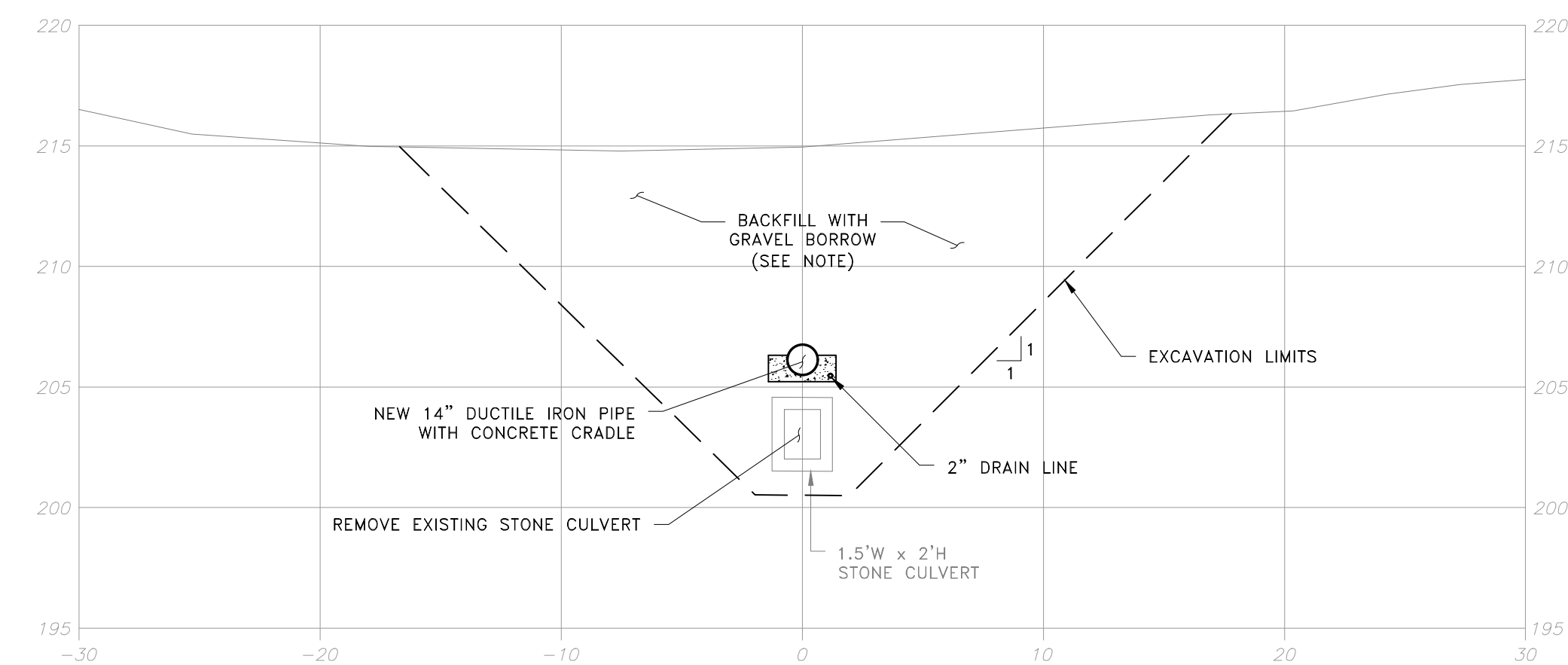




**SECTION A**  
SCALE: 1"=6'



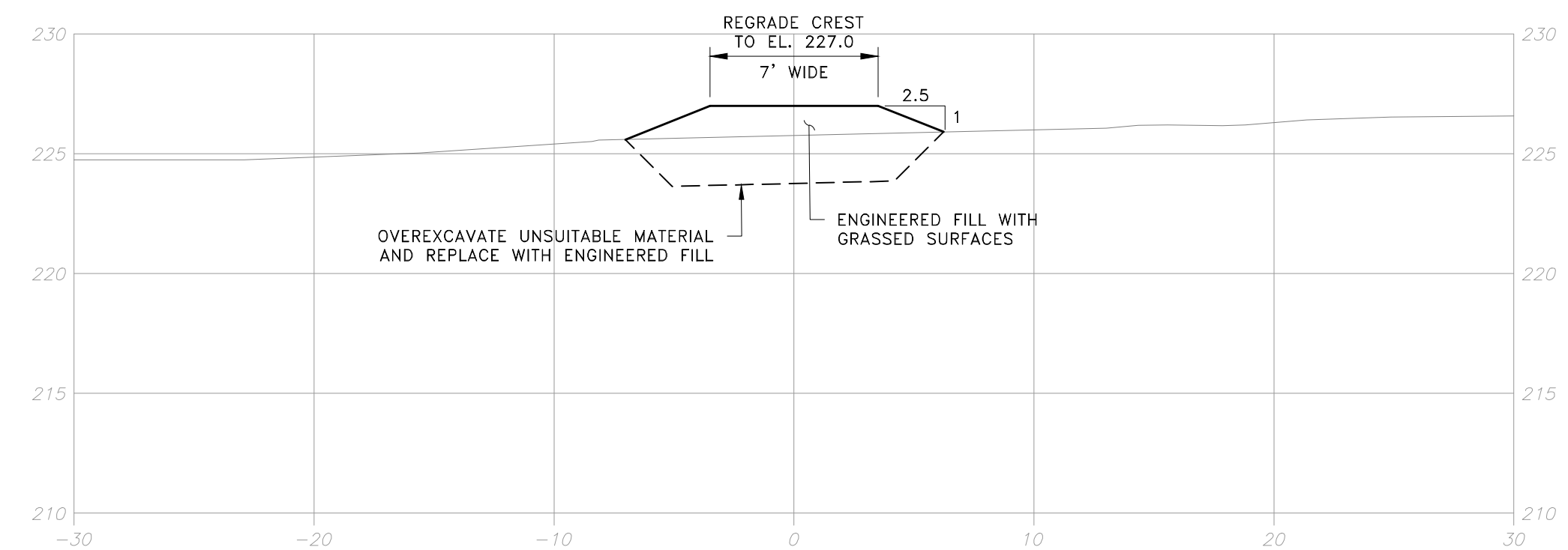
**DAM PROFILE**  
**LEFT ABUTMENT TO RIGHT ABUTMENT**  
SCALE: 1"=10'



**SECTION C**  
SCALE: 1"=6'

**NOTE:**

BASED UPON SUBSURFACE CONDITIONS DURING AND AFTER EXCAVATION, A DIFFERENT BACKFILL MATERIAL TYPE (ENGINEERED FILL AND/OR MASS CONCRETE) MAY BE SPECIFIED IN AREAS BY THE ENGINEER.



**SECTION D**  
SCALE: 1"=6'



SCALE ADJUSTMENT  
GUIDE  
0" 1"  
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**SNAKE BROOK DAM REHABILITATION**  
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PROPOSED  
SECTIONS

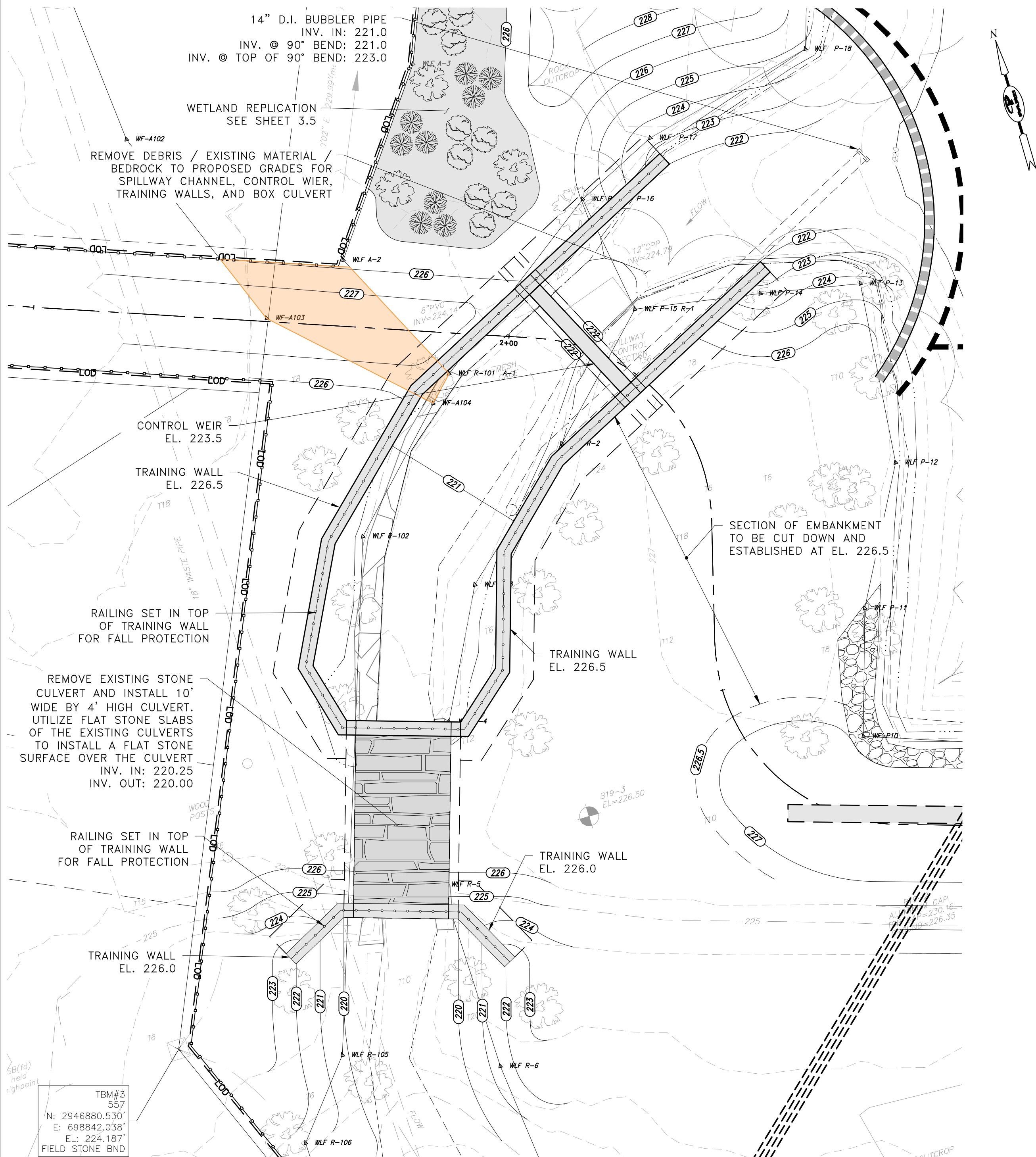
SHEET NO.:

3.1

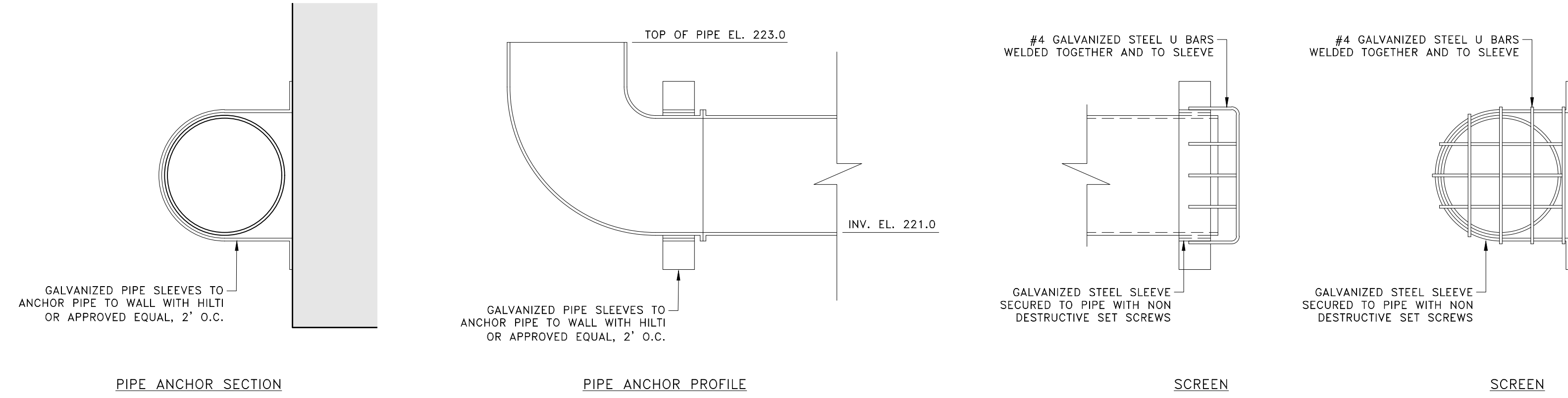
90% DESIGN SUBMISSION



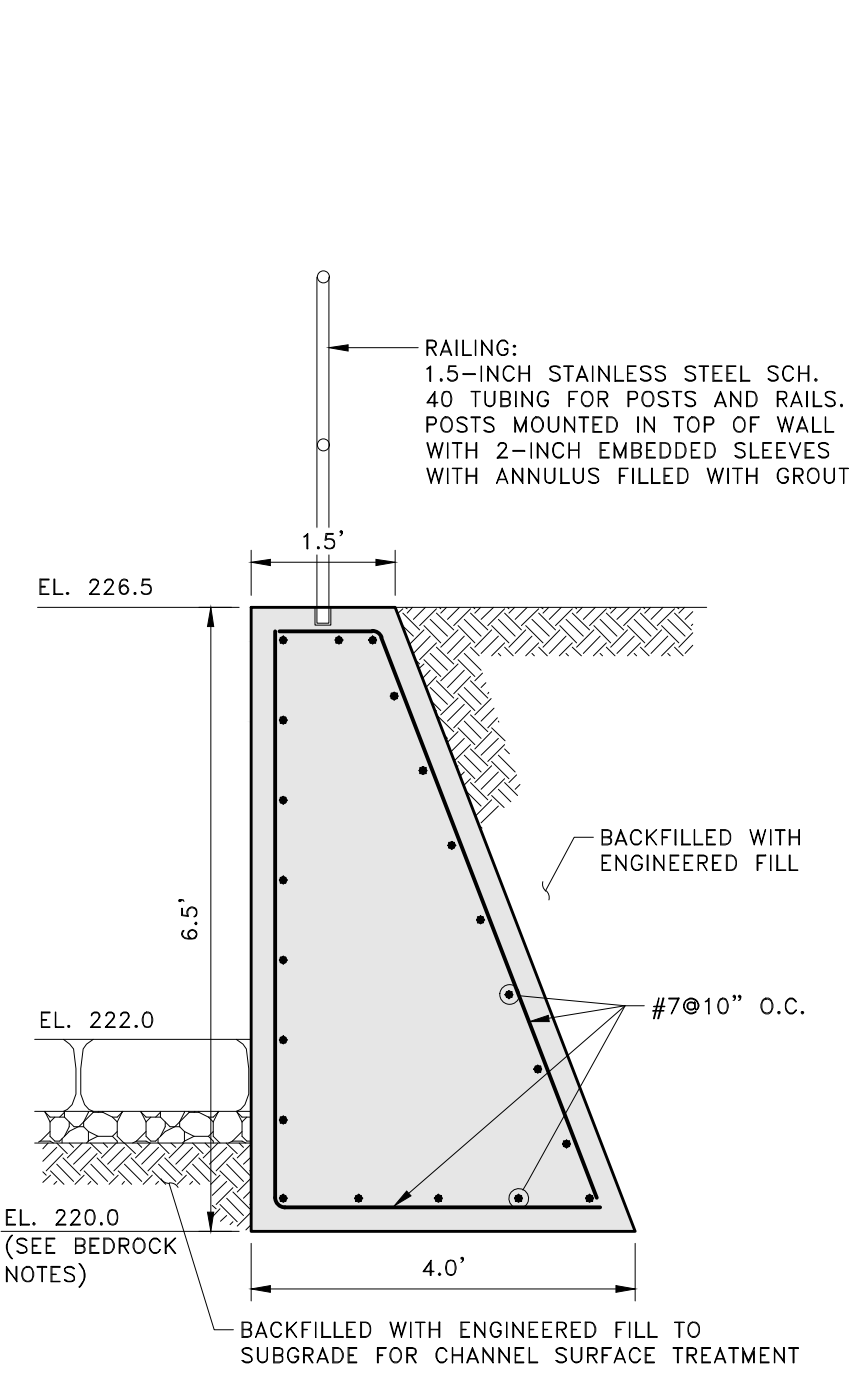
PLAN VIEW 1:8 AREA 1:16/1:20. Wetland-Sensitive/Design/Reference-MA01119-2. SPILLWAY SECTIONS AND DETAILS: 1:1



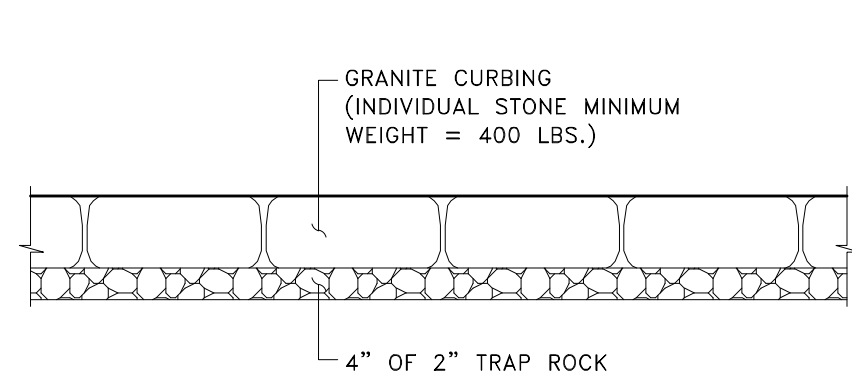
**PROPOSED SPILLWAY PLAN**  
SCALE: 1"=8'±



**BUBBLER PIPE DETAILS**  
SCALE: 1"=1'±

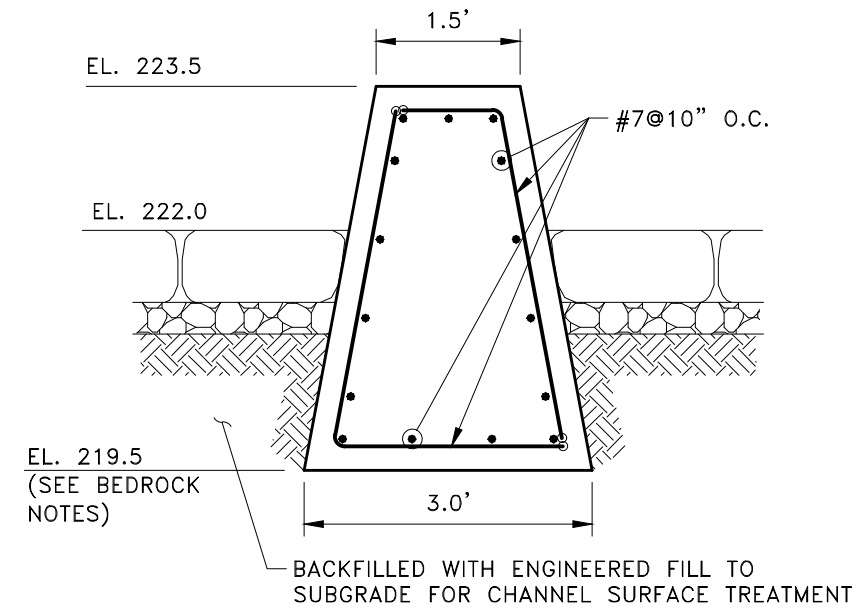


**TRAINING WALL**  
SCALE: 1"=2'

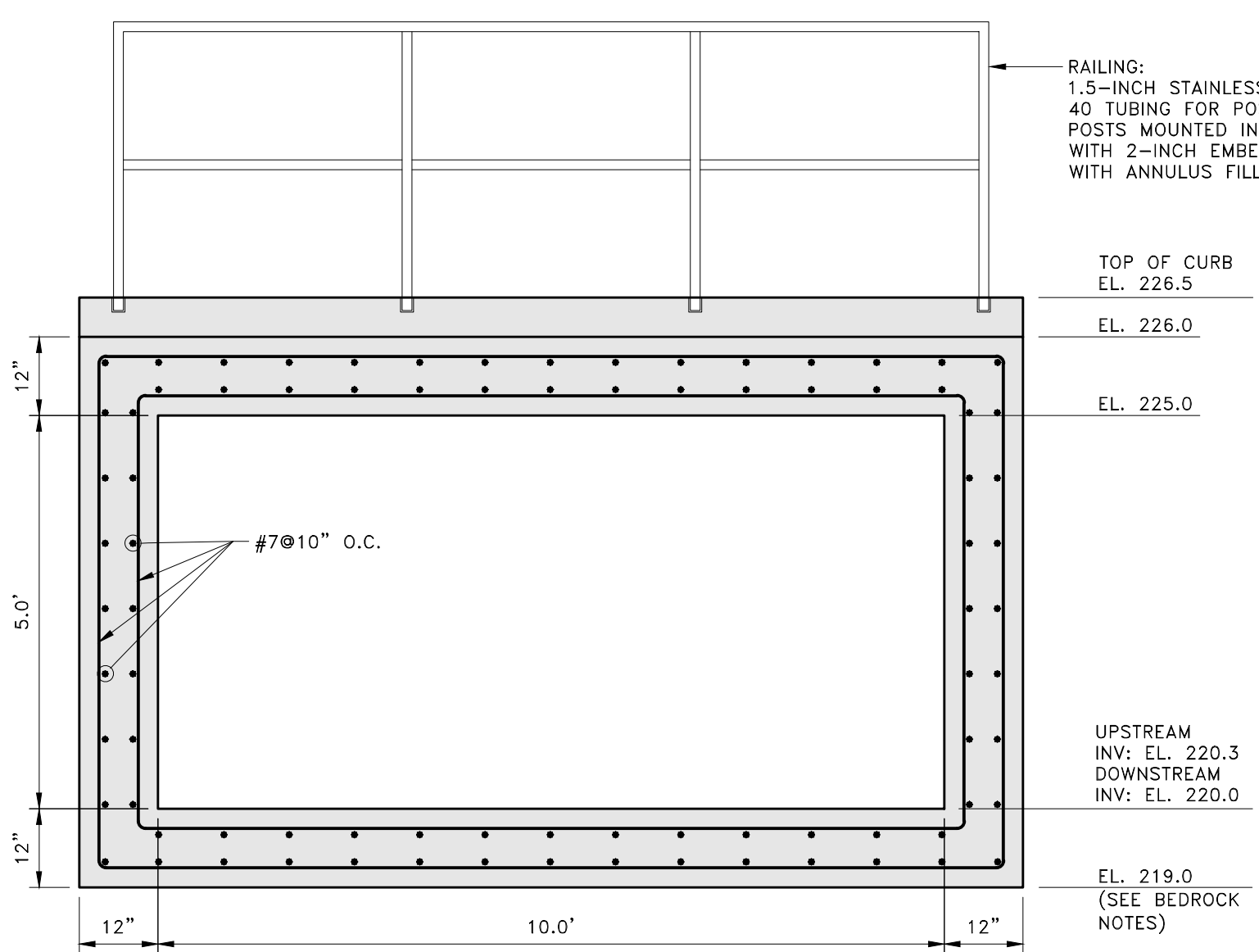


**CHANNEL SURFACE TREATMENT**  
NOT TO SCALE

NOTE:  
CHANNEL SURFACE TREATMENT IS NOT NEEDED WHERE BEDROCK IS ENCOUNTERED WITHIN 1-FOOT OF PROPOSED CHANNEL GRADES



**WEIR WALL**  
SCALE: 1"=2'



**SPILLWAY CULVERT**  
SCALE: 1"=2'

NOTE:  
IF BEDROCK IS ENCOUNTERED AT OR ABOVE THE SPECIFIED BOTTOM OF CULVERT GRADE, THE BOX CULVERT APPROACH CAN BE REVISED TO ELIMINATE THE NEED FOR THE FLOOR AND INSTALL AN OPEN BOTTOM CULVERT WITH GRAVITY LEFT AND RIGHT WALLS (SIMILAR SECTION AS THE TRAINING WALL SECTION PROVIDED ON THIS SHEET) AND THE 12-INCH THICK CONCRETE ROOF SHOWN ON THIS SECTION.

- BEDROCK NOTES:**
- BEDROCK IS LIKELY TO BE ENCOUNTERED WITHIN AND ABOVE THE SPECIFIED BOTTOM OF THE WALL ELEVATIONS. WHERE BEDROCK IS ENCOUNTERED ABOVE OR WITHIN 1-FOOT OF THE BOTTOM OF THE WALL, BEDROCK TIE IN PROCEDURES SHALL BE COMPLETED AS SPECIFIED BELOW.
  - BEDROCK TIE IN PROCEDURES SHALL INCLUDE THE FOLLOWING:
    - CLEANING OF THE BEDROCK SURFACE TO SOUND ROCK FREE FROM ALL SOIL, DUST, AND DEBRIS.
    - DRILLING AND GROUTING OF #7 HOKK DOWELS AT 10-INCHES ON CENTER PERPENDICULAR TO THE WALL AND 18-INCHES ON CENTER PARALLEL WITH THE WALL. ADHESIVE SHALL BE HILTI HIT HY-70 OR APPROVED EQUIVALENT. EMBEDMENT DEPTH INTO ROCK SHALL BE 9-INCHES AND 90 DEGREE HOOK WILL BE SITUATED 6-INCHES ABOVE THE BEDROCK SURFACE. HAND BENDING OF THE BAR TO PROVIDE THE 9-INCHES CLEARANCE BETWEEN DOWEL BAR AND BEDROCK SURFACE SHALL BE PERFORMED. TIE DOWELS TO REINFORCING STEEL OF WALL WHERE POSSIBLE.
    - COMPLETE CUSTOM BASE FORM WORK AS REQUIRED TO ACCOMMODATE IRREGULAR BEDROCK SURFACE.

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SCALE ADJUSTMENT GUIDE  
0" 1"  
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**SNAKE BROOK DAM REHABILITATION**  
MA01119  
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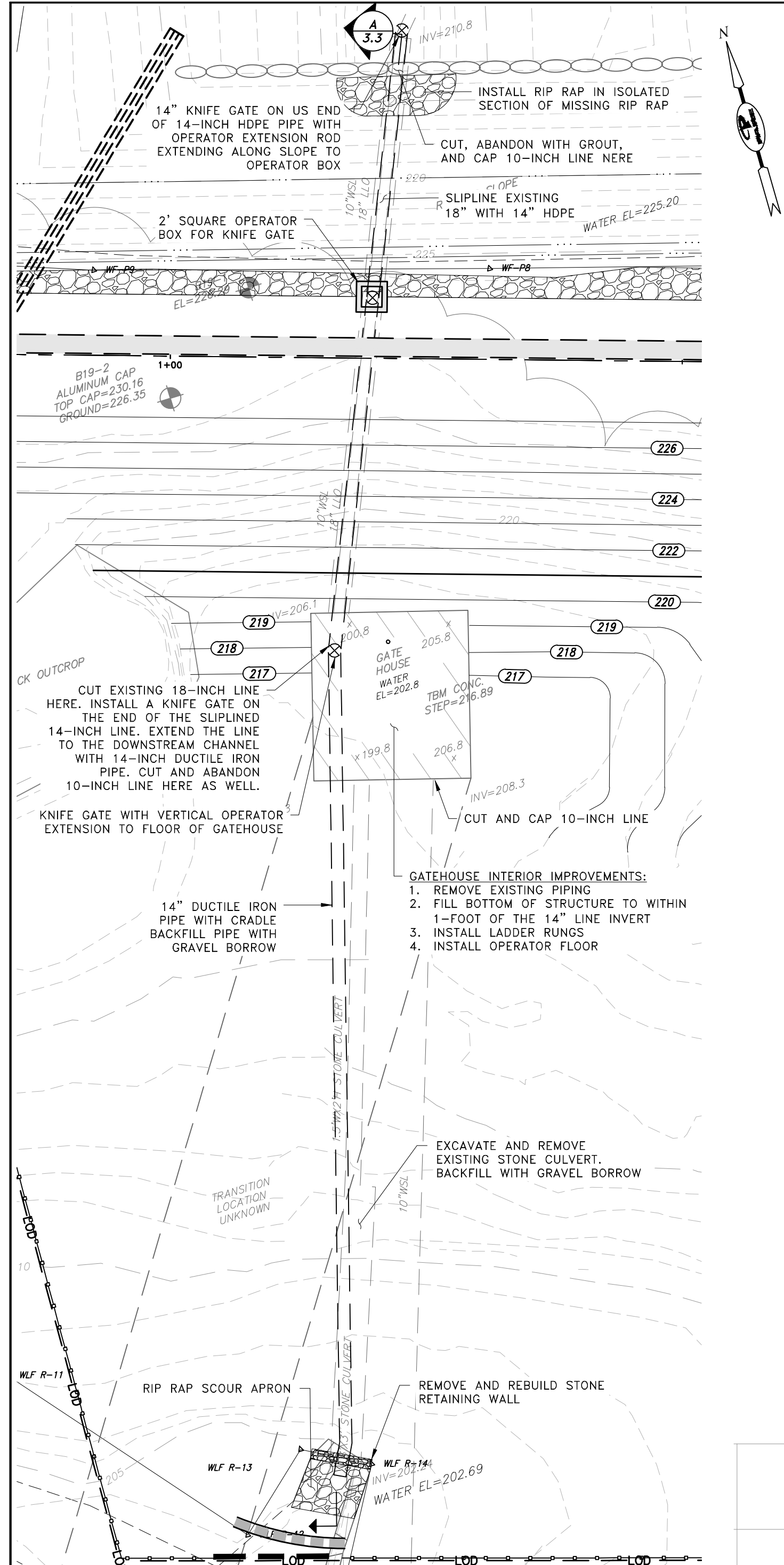
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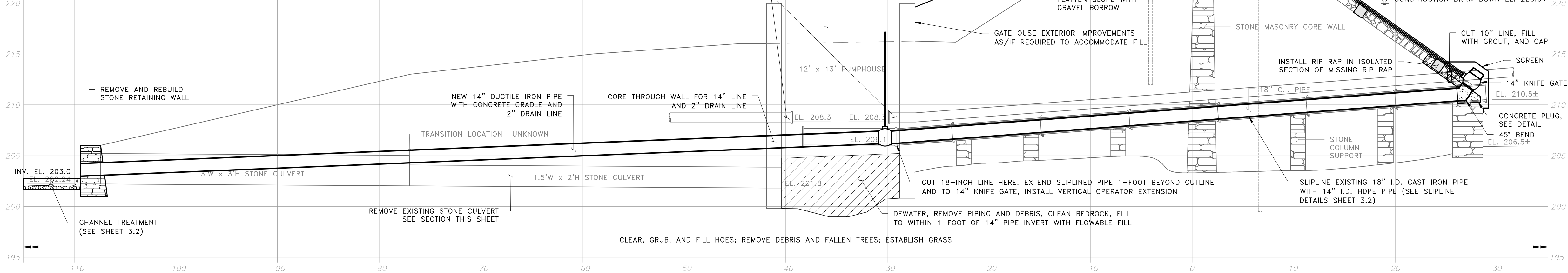
**SPILLWAY SECTIONS AND DETAILS**

SHEET NO.: 3.2

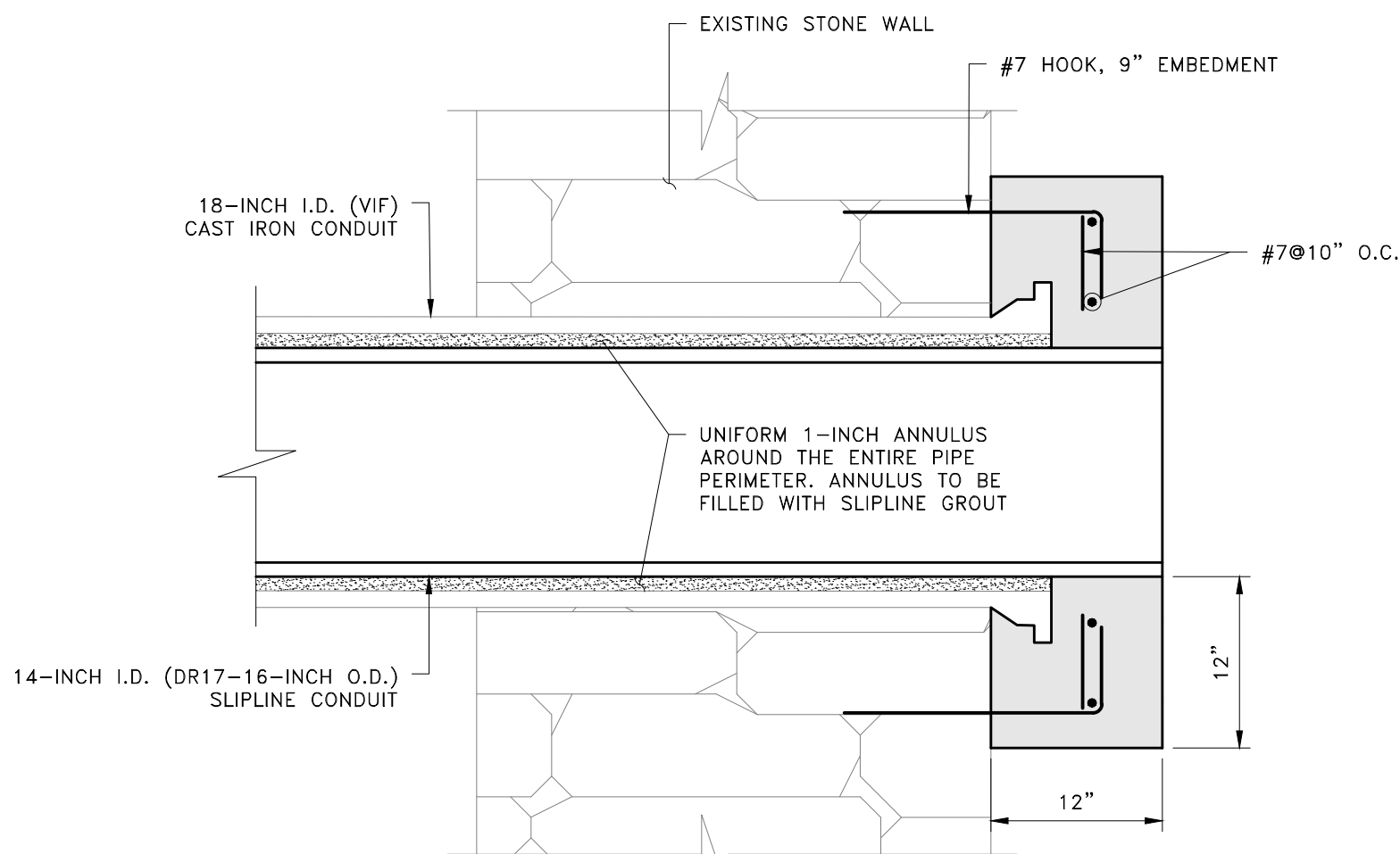




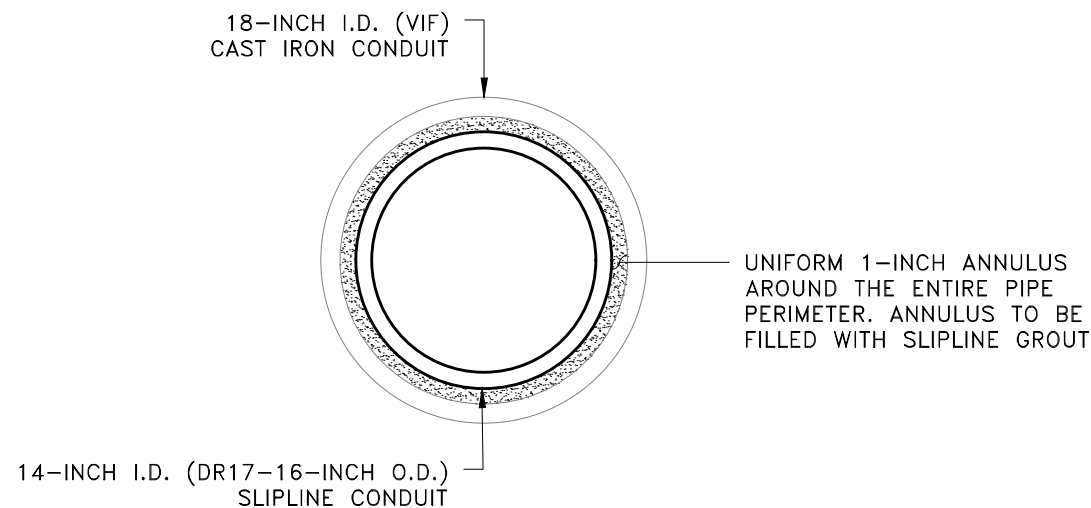
**LOW LEVEL OUTLET PLAN**  
SCALE: 1"=10'



**SECTION A**  
SCALE: 1"=6'



**OPERATOR BLOCK DETAIL**  
SCALE: 1"=2'



**SLIPLINE DETAILS**  
SCALE: 1"=1'

**SLIPLINE NOTES:**

**PREPARATION**

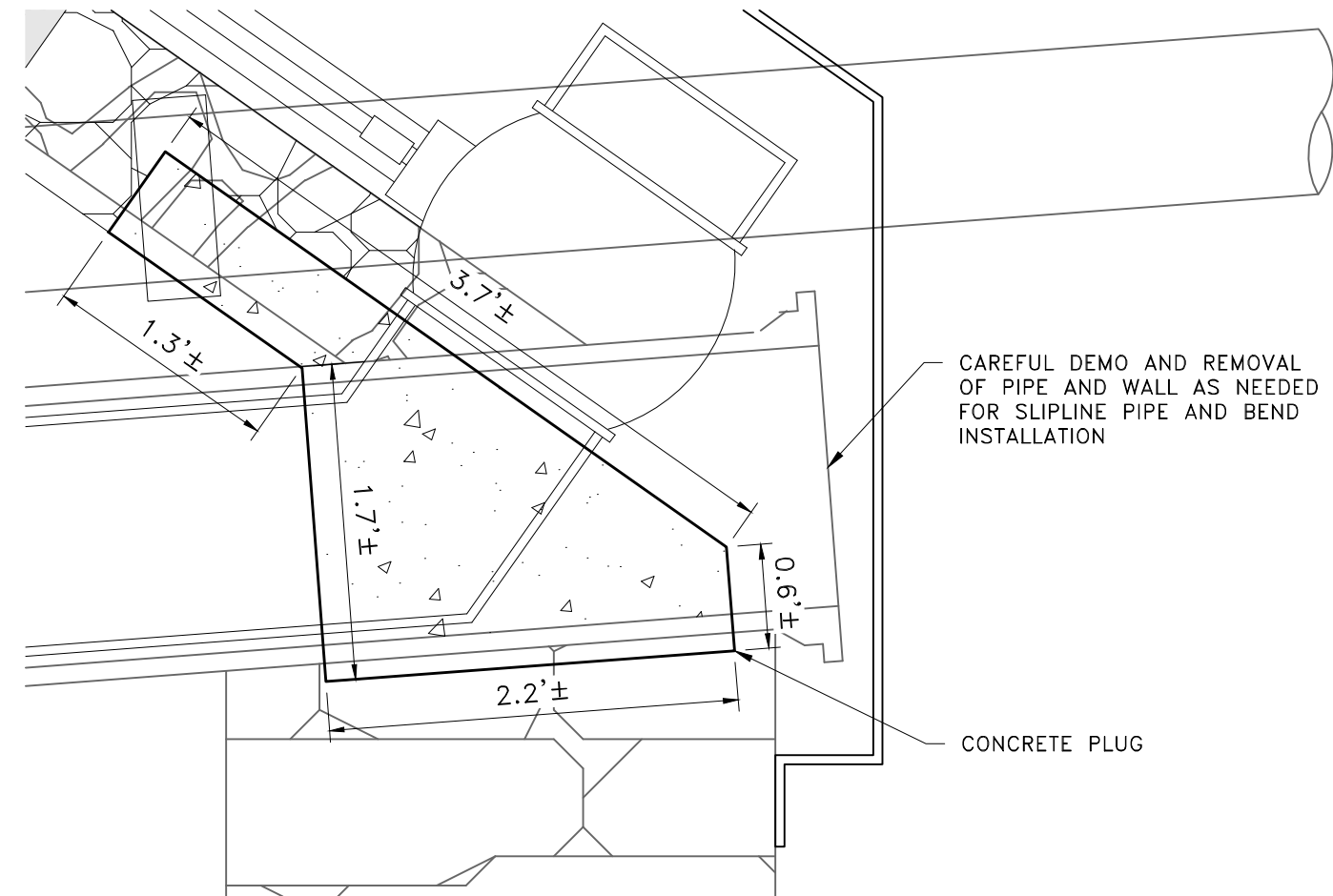
1. VERIFY THE INSIDE DIAMETER AND CONDITION OF THE 18-INCH CAST IRON HOST CONDUIT. ADJUST APPROACH AS NEEDED.
2. CLEAN THE HOST CONDUIT OF ALL DEBRIS.

**PIPE INSTALLATION**

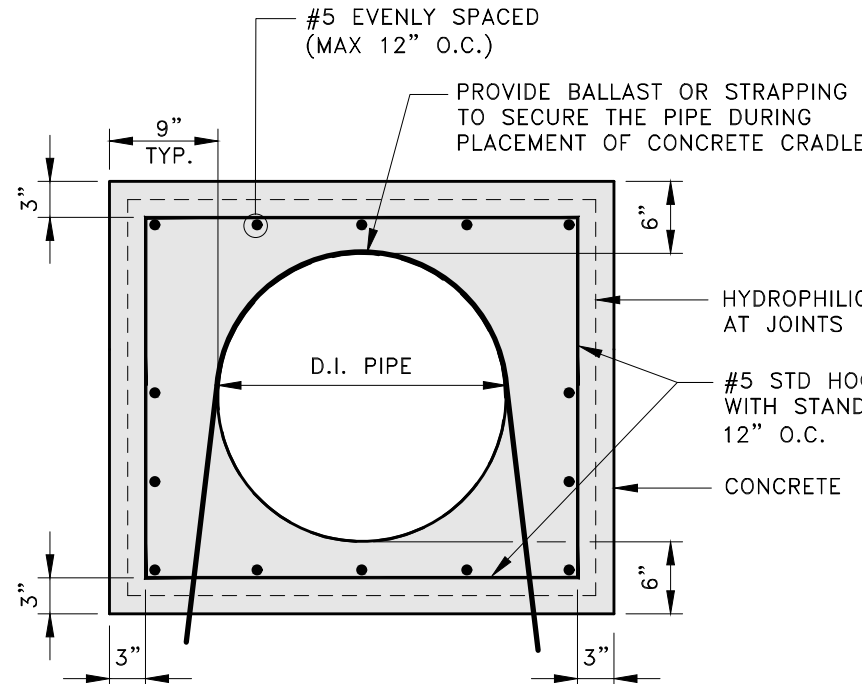
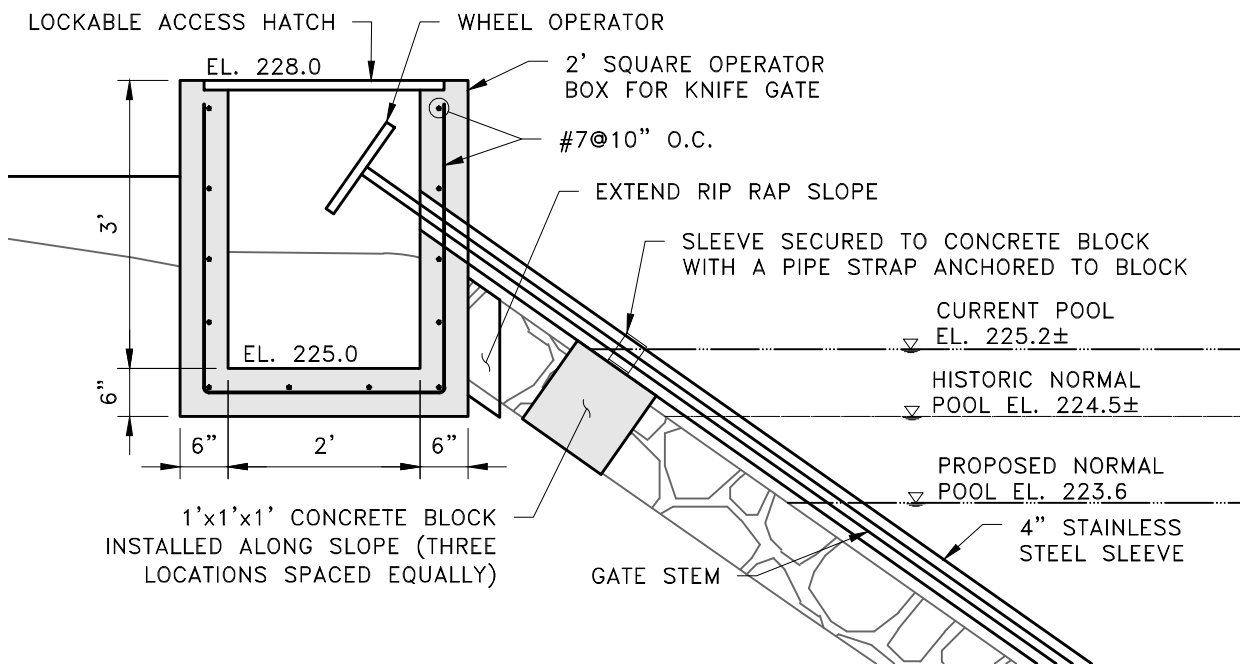
1. INSTALL THE 14-INCH SLIPLINE CONDUIT. PIPE JOINTING SHALL COMPLY WITH PIPE MANUFACTURER'S RECOMMENDATIONS. PROVIDE ADDITIONAL MEASURES AS NECESSARY TO ENSURE THE SLIPLINE PIPE IS INSTALLED IN SUCH A WAY SO THAT A UNIFORM ANNULUS IS PROVIDED AROUND THE ENTIRE PIPE PERIMETER.

**GROUT INSTALLATION**

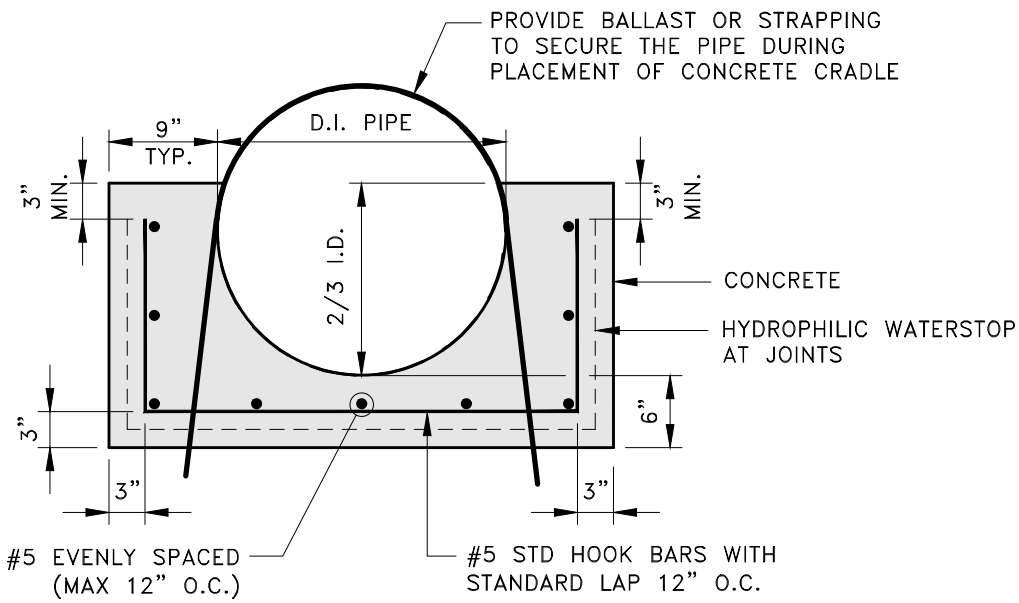
1. INSTALL GROUT LINES, VENT PORTS, AND BULKHEADS AS NECESSARY FOR THE GROUTING OPERATIONS. INCORPORATE MEASURES TO ALLOW FOR THE VERIFICATION OF COMPLETE ANNULUS GROUTING.
2. GROUT THE ANNULUS AT AN APPROPRIATE PRESSURE TO FILL THE ANNULUS AND NOT CAUSE DAMAGE TO THE HOST OF SLIPLINE CONDUIT. MEASURE GROUT TAKE AND COMPARE TO EXPECTED TAKE AND CONFIRM.
3. INSTALL A REINFORCED CONCRETE CAP AT BOTH ENDS OF THE SLIPLINED SECTION OF PIPE.



**CONCRETE PLUG DETAIL**  
SCALE: 1"=1'



**REINFORCED CONCRETE FULL CRADLE DETAIL**  
SCALE: 3/4"=1'-0"



**REINFORCED CONCRETE 2/3 CRADLE DETAIL**  
SCALE: 3/4"=1'-0"



SCALE ADJUSTMENT  
GUIDE  
0" 1"  
BAR IS ONE INCH ON  
ORIGINAL DRAWING.

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MA01119

WAYLAND, MASSACHUSETTS

TOWN OF WAYLAND CONSERVATION COMMISSION

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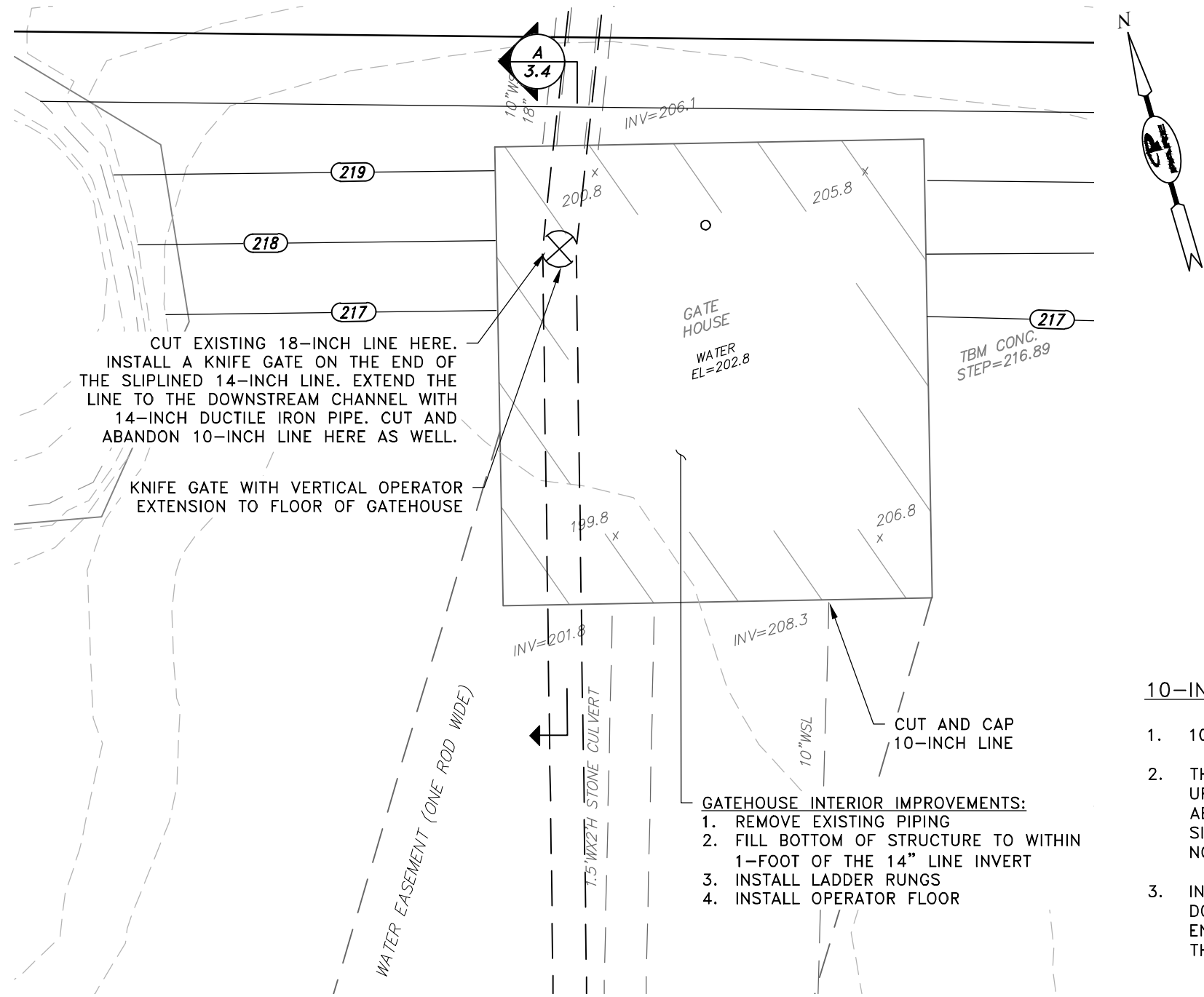
NO.	DESCRIPTION	DATE

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LOW LEVEL OUTLET  
SECTIONS AND DETAILS

SHEET NO.:



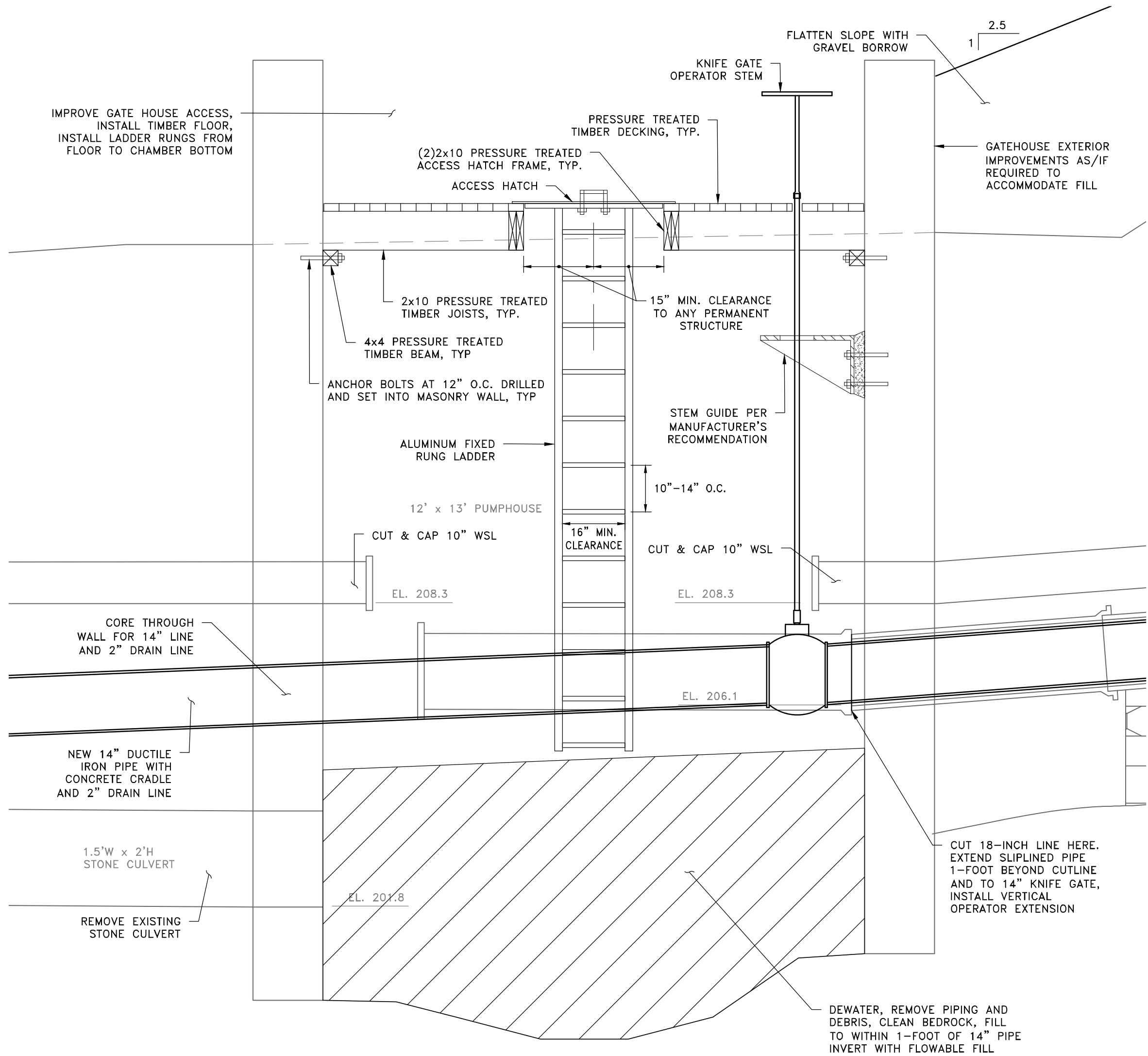


**GATEHOUSE PLAN**  
SCALE: 1"=5'

**10-INCH LINE ABANDONMENT NOTES:**

1. 10-INCH LINE SHALL BE CUT AS SHOWN.
2. THE PORTION OF THE LINE THAT EXTENDS FROM UPSTREAM TOE TO THE GATEHOUSE SHALL BE ABANDONED THROUGH GROUTING PROCEDURES SIMILAR TO THOSE DESCRIBED IN THE SUIPLINE NOTES.
3. INSTALL A CONCRETE CAP AT THE UPSTREAM AND DOWNSTREAM ENDS OF THE LINE AS WELL AS THE END OF THE LINE AT THE DOWNSTREAM WALL OF THE GATEHOUSE.

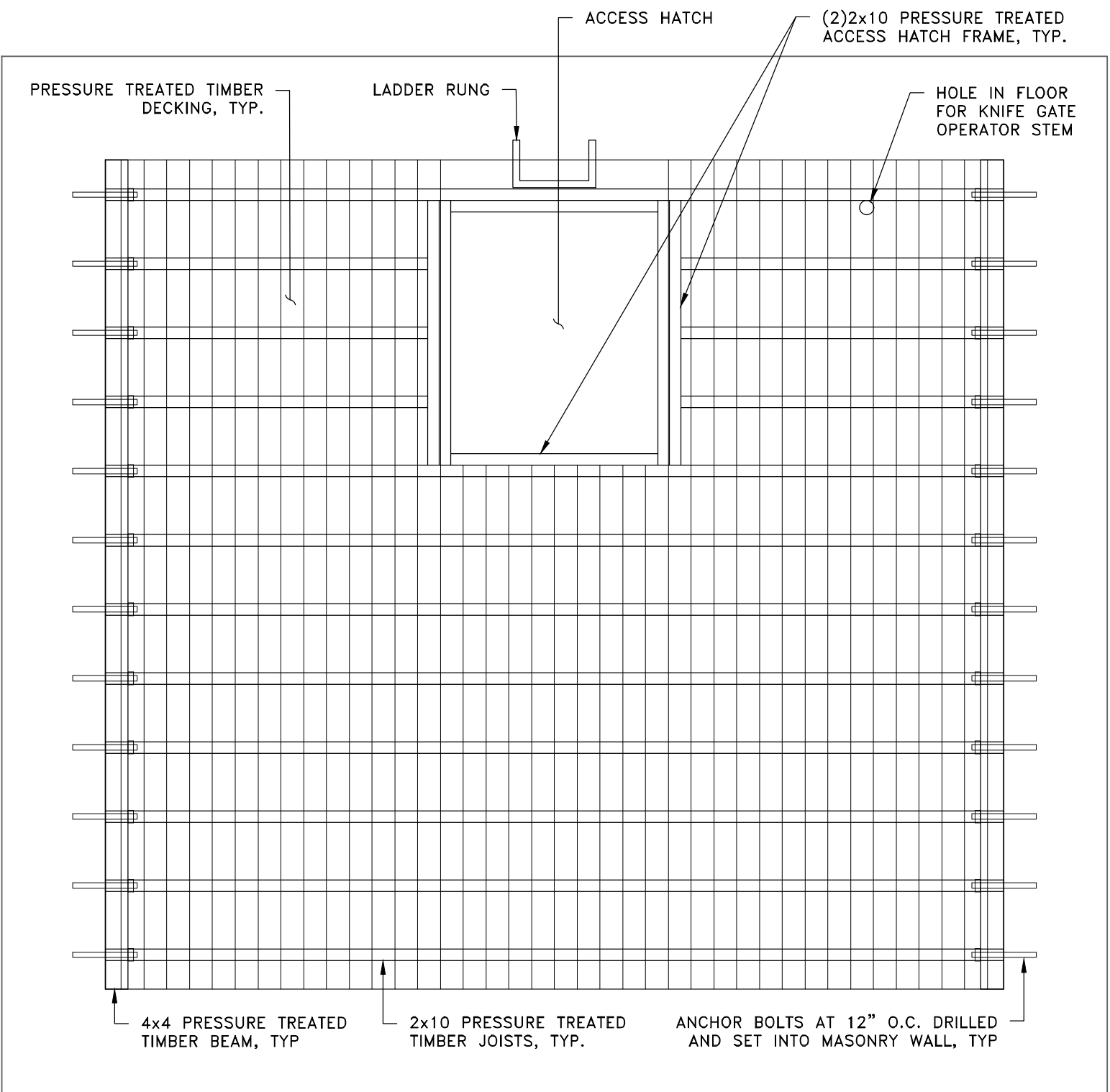
- GATEHOUSE INTERIOR IMPROVEMENTS:**
1. REMOVE EXISTING PIPING
  2. FILL BOTTOM OF STRUCTURE TO WITHIN 1-FOOT OF THE 14" LINE INVERT
  3. INSTALL LADDER RUNGS
  4. INSTALL OPERATOR FLOOR



**SECTION A**  
SCALE: 1"=2'

**LADDER NOTES:**

1. INDIVIDUAL RUNG SHALL BE CAPABLE OF SUPPORTING A SAFE WORKING LOAD OF 250 LBS APPLIED IN THE MIDDLE OF THE RUNG.
2. RUNGS/STEPS OF THE LADDER SHALL BE CORRUGATED, KNURLED, DIMPLED, COATED WITH SKID-RESISTANT MATERIAL, OR OTHERWISE TREATED TO MINIMIZE SLIPPING.



**GATEHOUSE TIMBER FLOOR FRAMING PLAN**  
SCALE: 1"=2'



SCALE ADJUSTMENT  
GUIDE  
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ORIGINAL DRAWING.

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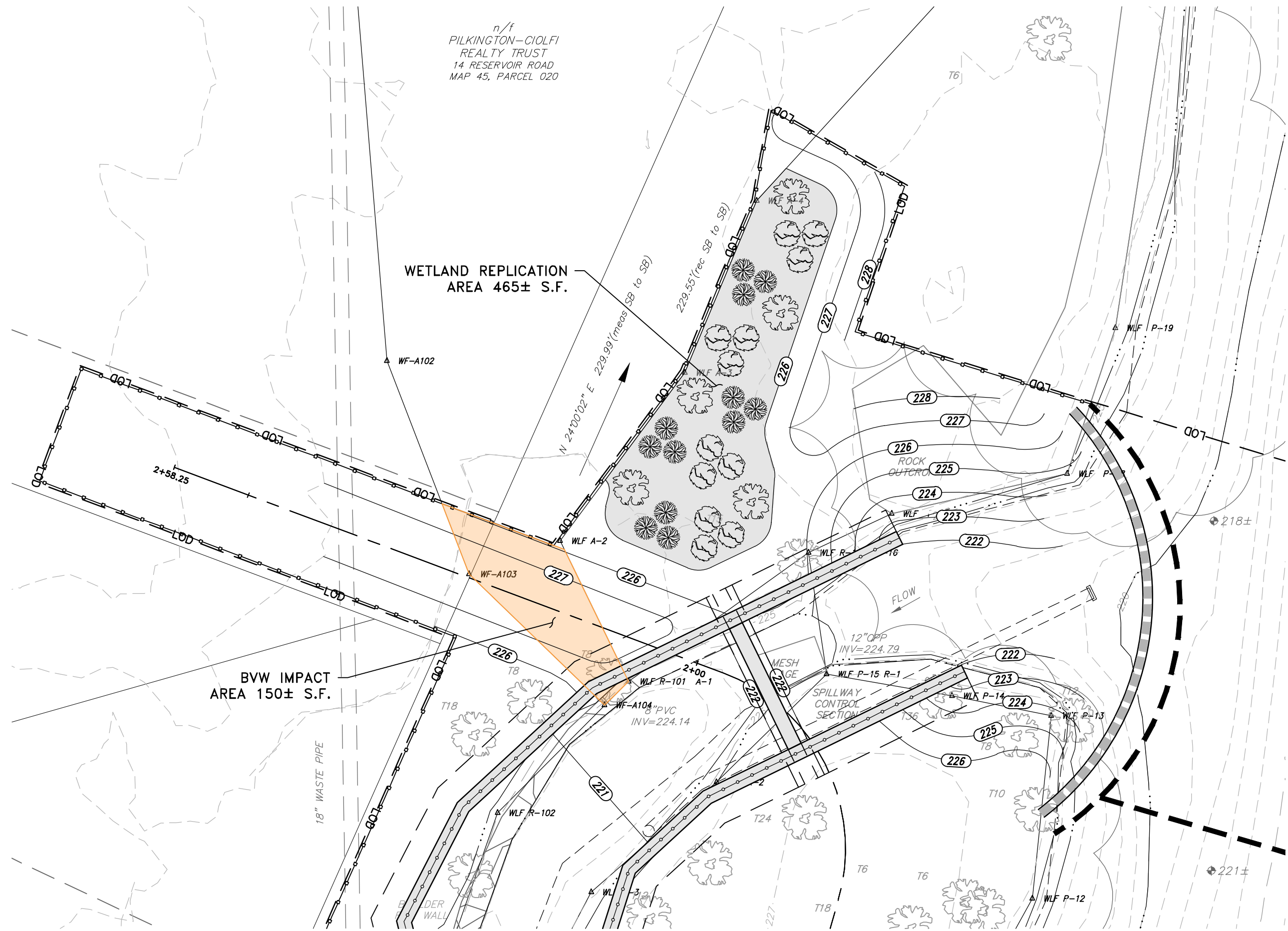
**GATEHOUSE  
SECTIONS AND DETAILS**

SHEET NO.:

3.4



P:\WORK\19\_0824\19167.02\_Wetland\_Replication\Drawings\19167.02\_Wetland\_Replication\_Plan.dwg



### PLANTING TABLE

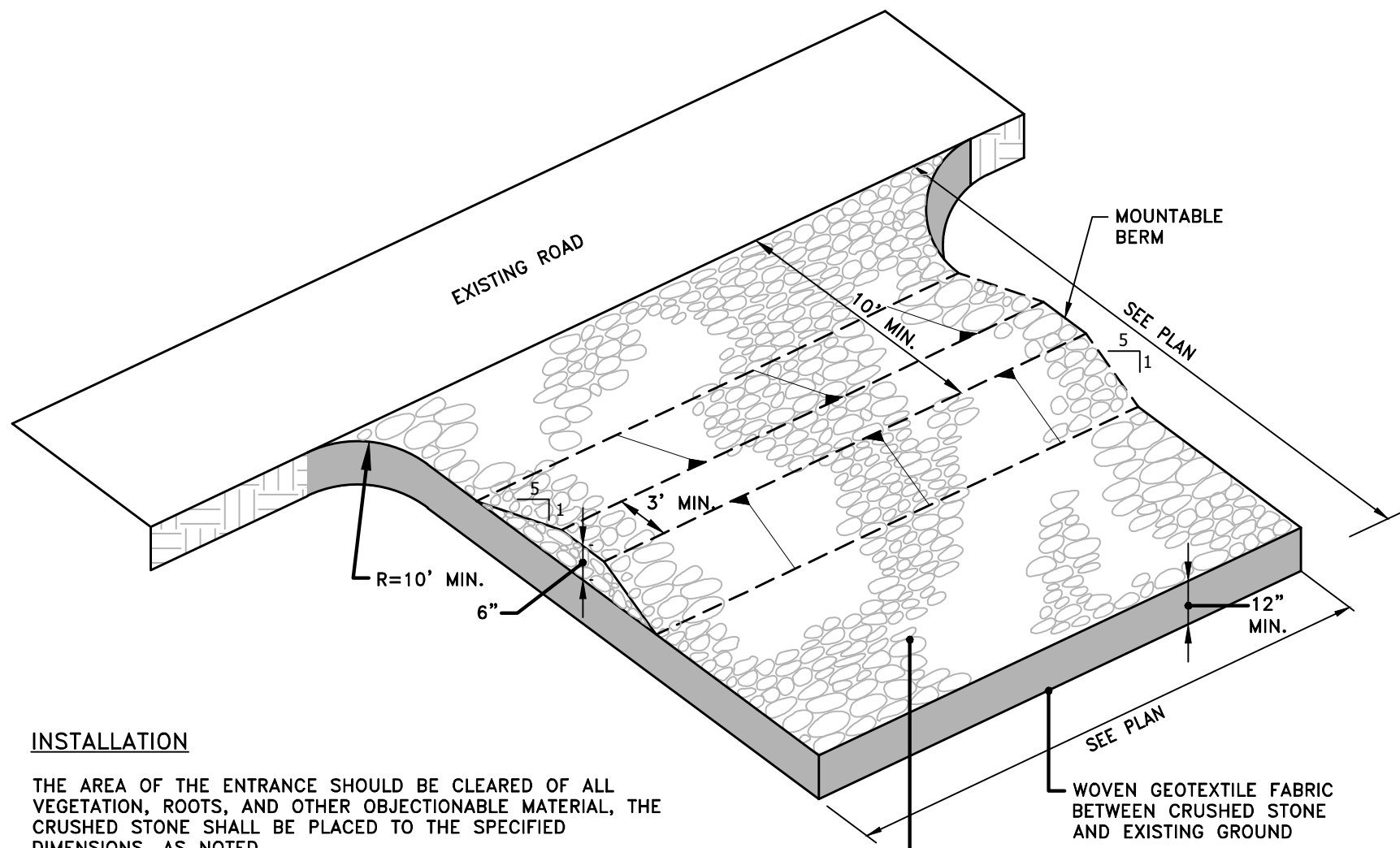
SYMBOL	COMMON NAME	SCIENTIFIC NAME	SIZE	QUANTITY	SPACING
	RED MAPLE	ACER RUBRUM	4' MIN.	5	12' O.C. ±
	SWEET PEPPERBUSH	CLETHRA ALNIFOLIA	1-3'	12	CLUSTERS OF 3 (6'-8' O.C.)
	HIGHBRUSH BLUEBERRY	VACCINIUM CORYMBOSUM	1-3'	12	CLUSTERS OF 3 (6'-8' O.C.)
	WETLAND SEED MIX**	----	----	----	THROUGHOUT

\*\* NEW ENGLAND WETLAND PLANTS WETMIX OR APPROVED EQUIVALENT.

### WETLAND REPLICATION NOTES

- APPROXIMATELY 150 SQUARE FEET OF BORDERING VEGETATED WETLANDS WILL BE PERMANENTLY ALTERED IN THIS PROJECT. APPROXIMATELY 465 SQUARE FEET SHALL BE REPLICATED ON-SITE, AS SHOWN ON THE WETLAND REPLICATION PLAN. THIS WILL PROVIDE A REPLACEMENT RATIO OF APPROXIMATELY 3:1.
- THE CONTRACTOR SHALL STAKE OUT THE FOLLOWING AREAS AS INDICATED ON THE WETLAND REPLICATION PLAN:
  - EROSION CONTROL/LIMIT OF WORK
  - REPLICATION AREA
- EROSION CONTROL SHALL BE INSTALLED IN ACCORDANCE WITH THE CONTRACT PLANS AND DOCUMENTS. SEE EROSION AND SEDIMENT CONTROL NOTES.
- ALL STAGES OF CONSTRUCTION SHALL BE OBSERVED BY A WETLAND SPECIALIST.
- FALLEN TREES AND UNDERSTORY VEGETATION WITHIN THE REPLICATION AREA SHALL BE REMOVED. EXISTING TREES MAY BE SELECTED TO REMAIN ON HUMMOCKS IF APPROPRIATE. SELECT INORGANIC MATERIALS SUCH AS ROCKS AND BOULDERS AND SELECT TREES AND LOGS MAY BE STOCKPILED FOR USE IN THE REPLICATION AREA TO PROVIDE WILDLIFE HABITAT.
- EXCAVATE TO APPROPRIATE SUBGRADES APPROXIMATELY 12 INCHES BELOW ELEVATION OF ADJOINING WETLAND EDGE. MATERIAL SHALL BE SPREAD TO CREATE A MOUND AND POOL TOPOGRAPHY FOR THE FINAL GRADE.
- THE WETLAND SPECIALIST SHALL CONFIRM THE ELEVATIONS OF THE REPLICATION AREA PRIOR TO PLACEMENT OF ORGANIC TOPSOIL.
- ORGANIC TOPSOIL SHALL BE IMPORTED IN A SUFFICIENT VOLUME TO COVER THE REPLICATION AREA TO AN AVERAGE DEPTH OF 12 INCHES. TOPSOIL SHALL CONSIST OF A 50/50 MIX OF LOAM AND ORGANIC MATERIAL.
- THE REPLICATION AREA SHALL BE PLANTED WITH INDIGENOUS PLANTS SPECIFIED IN THE PLANTING TABLE. SAPLINGS SHALL BE PLACED 12 FEET ON CENTER AT UPPER PERIMETER AND ALONG SURROUNDING SLOPES. SHRUBS WILL BE ARRANGED IN CLUSTERS OF 3 STAGGERED AT AN AVERAGE SPACING OF 6-8' ON CENTER. PLANTS SHALL BE PLANTED IN A RANDOM ARRANGEMENT TO MIMIC THE NATURAL SURROUNDINGS. FOLLOWING INSTALLATION OF PLANTINGS, A NEW ENGLAND WETLAND SEED MIX SHALL BE ADDED TO PROVIDE HERBACEOUS COVER.
- INORGANIC MATERIALS AND SAVED TREES/LOGS SHALL BE SCATTERED THROUGHOUT THE REPLICATION AREA TO COVER APPROXIMATELY 20% OF THE SURFACE AREA.
- IMMEDIATELY FOLLOWING THE PLANTING OF THE REPLICATION AREA, A SECOND ROW OF EROSION CONTROL SHALL BE INSTALLED BETWEEN THE NEW REPLICATION AREA AND THE UPLAND AREA AS INDICATED ON THE WETLAND REPLICATION PLAN, THIS SHEET. SLOPES BORDERING THE AREA SHALL BE STABILIZED WITH LOAM AND SEED.
- THE REPLICATION AREA SHALL BE VEGETATIVELY STABILIZED BY AT LEAST 75% WITHIN TWO GROWING SEASONS. ALL REPLICATION TASKS SHALL BE DONE IN ACCORDANCE WITH THE WETLAND PROTECTION ACT AND REGULATIONS UNDER 310CMR 10.55 AND THE MASSACHUSETTS INLAND WETLAND REPLICATION GUIDE. EROSION CONTROL BETWEEN THE EXISTING WETLAND AND THE CREATED WETLAND SHALL BE





INSTALLATION

THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL, THE CRUSHED STONE SHALL BE PLACED TO THE SPECIFIED DIMENSIONS, AS NOTED.

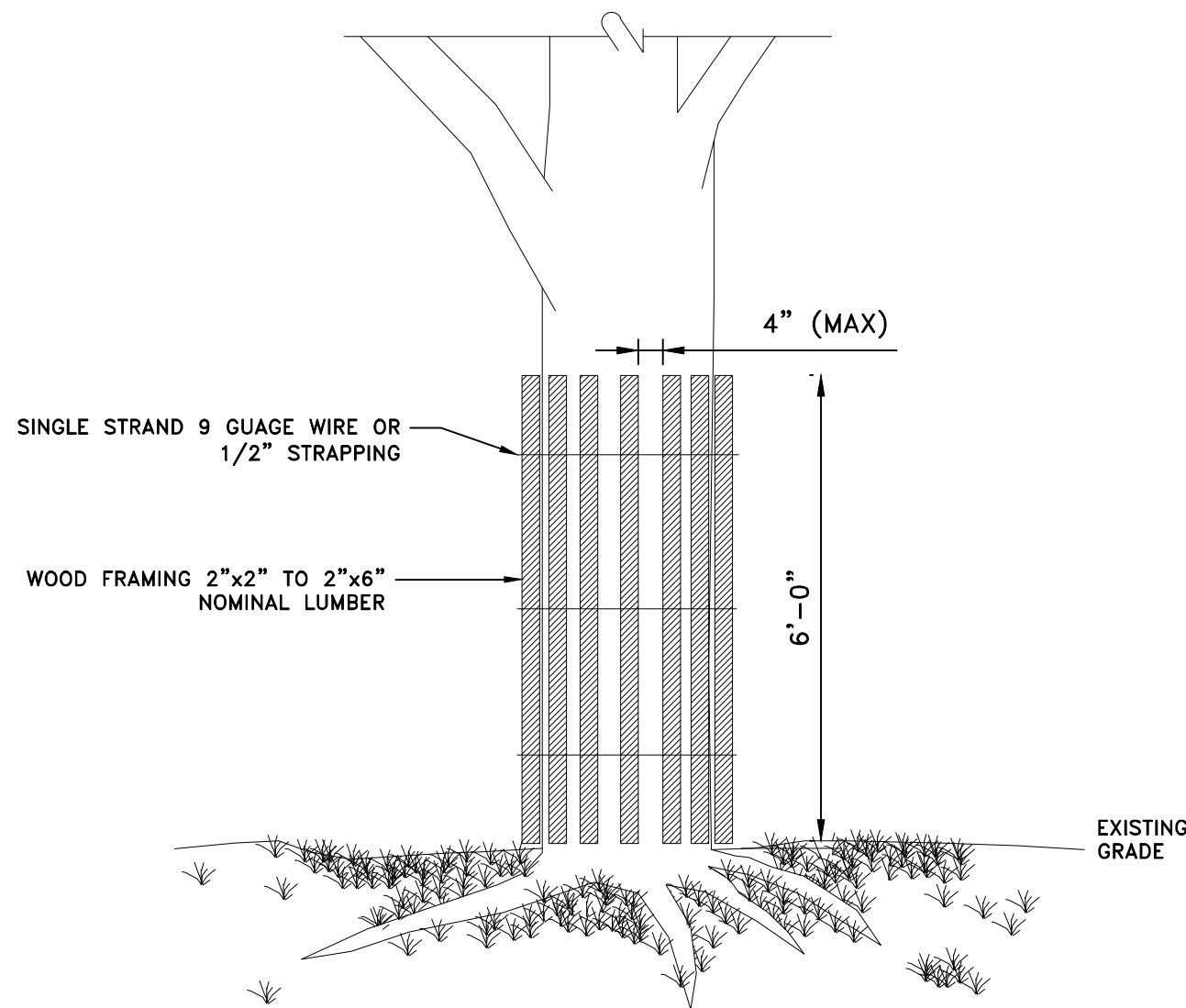
MAINTENANCE

THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENTS ONTO PUBLIC RIGHT-OF-WAYS THIS WILL REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE, OR ADDITIONAL LENGTH, AS CONDITIONS DEMAND, AND REPAIR, AND / OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.

LOCATION

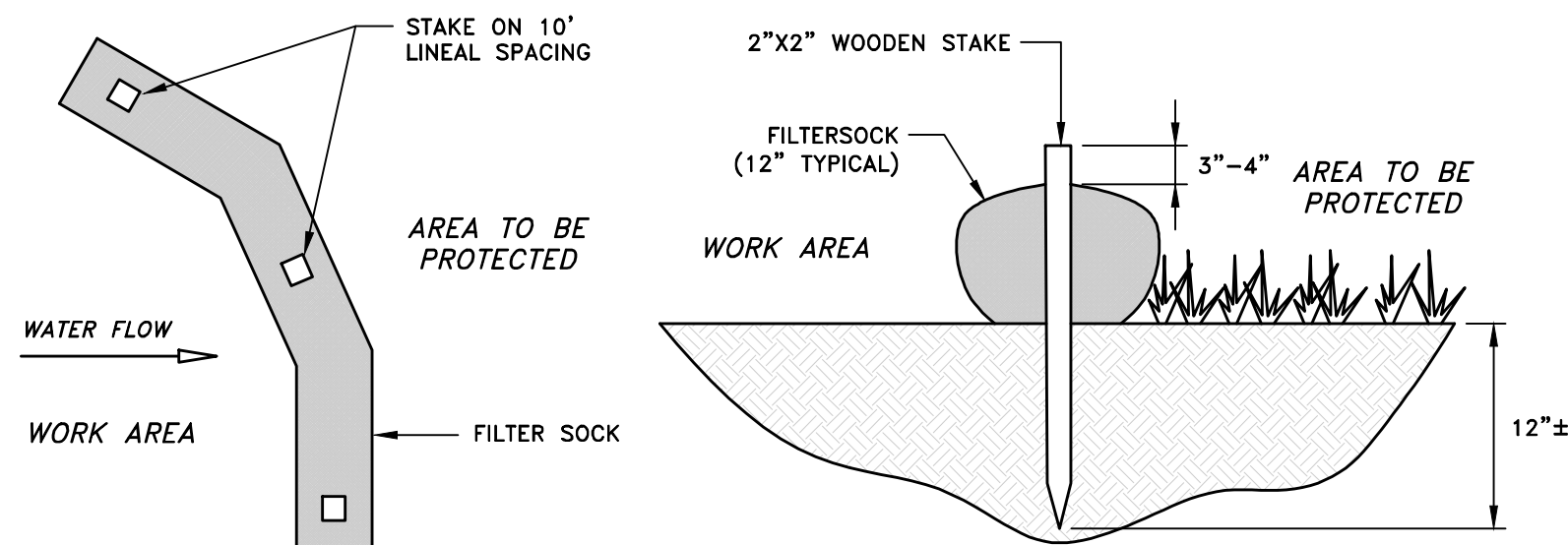
SEE PROJECT PLANS FOR LOCATION OF CONSTRUCTION ENTRANCE.

CONSTRUCTION ENTRANCE PROTECTION STONE STABILIZATION PAD  
NOT TO SCALE



NOTE: THIS DETAIL SHALL BE USED TO PROTECT THE TREE'S TRUNK IN SITUATIONS WHERE CONSTRUCTION IS IN CLOSE PROXIMITY.

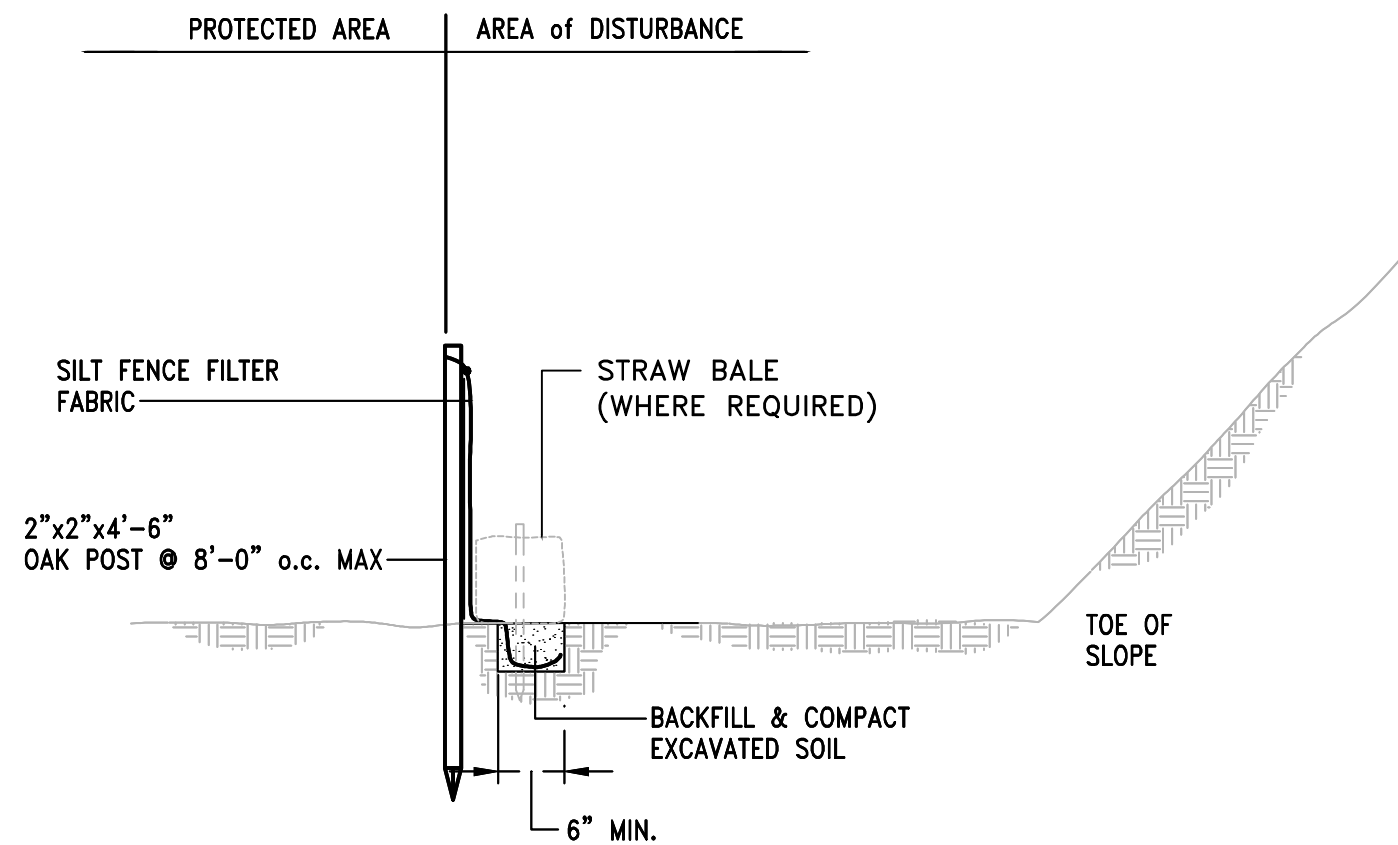
TREE PROTECTION DEVICE  
NOT TO SCALE



FILTERSOCK NOTES:

1. COMPOST / SOIL / ROCK / SEED FILL TO MEET APPLICATION REQUIREMENTS.
2. COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE AS DETERMINED BY ENGINEER.

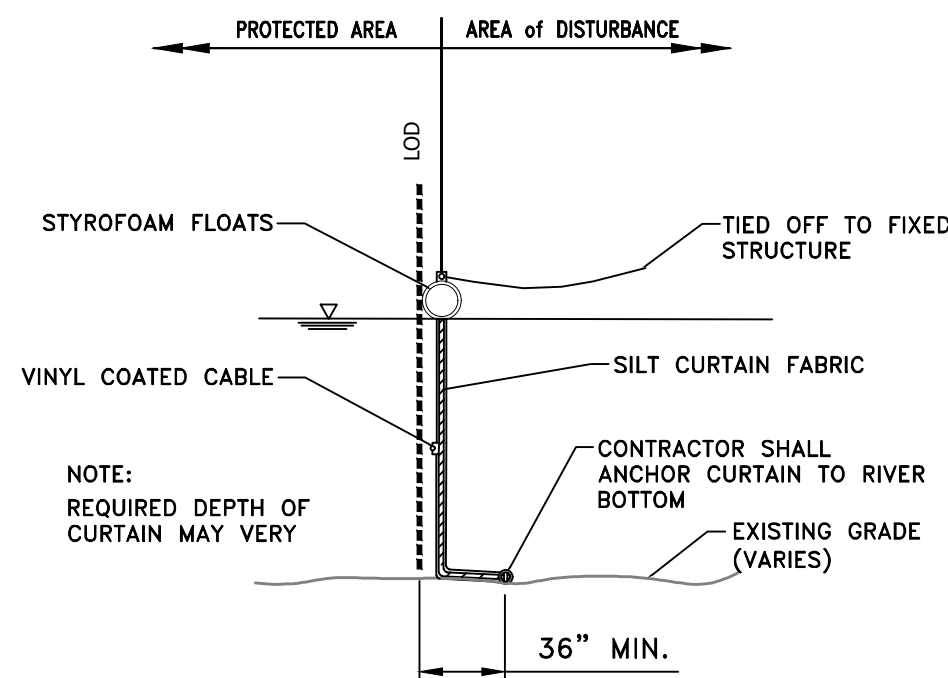
FILTERSOCK DETAIL  
NOT TO SCALE



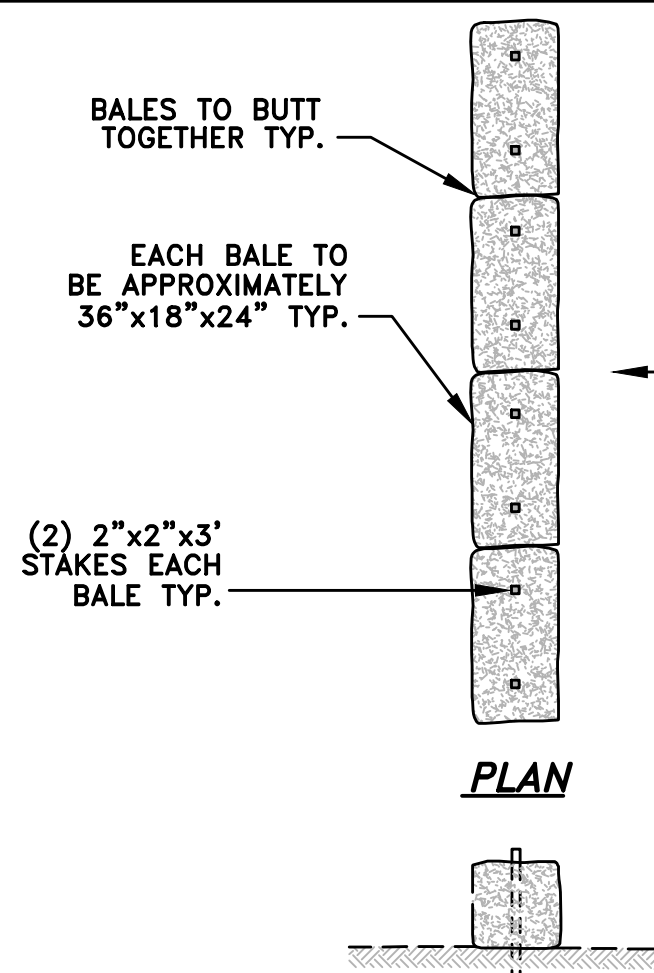
NOTE:

SILT FENCE FABRIC SHALL NOT BE SLIT. STRAW BALE POST SHALL BE DRIVEN THROUGH SILT FENCE FABRIC.

SILT FENCE DETAIL  
NOT TO SCALE



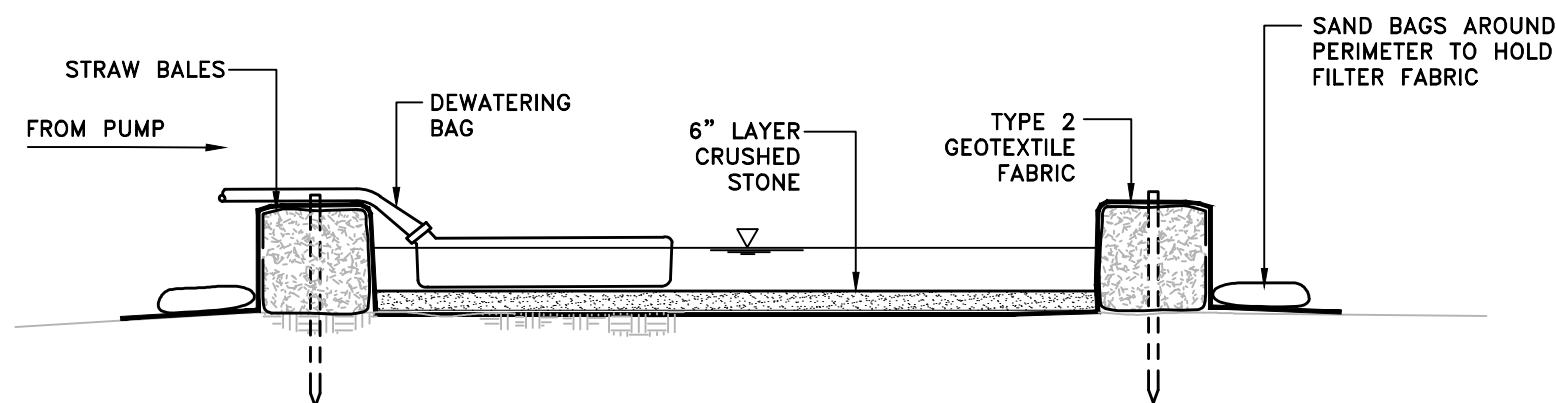
TYPICAL TURBIDITY BARRIER  
NOT TO SCALE



PLAN

ELEVATION

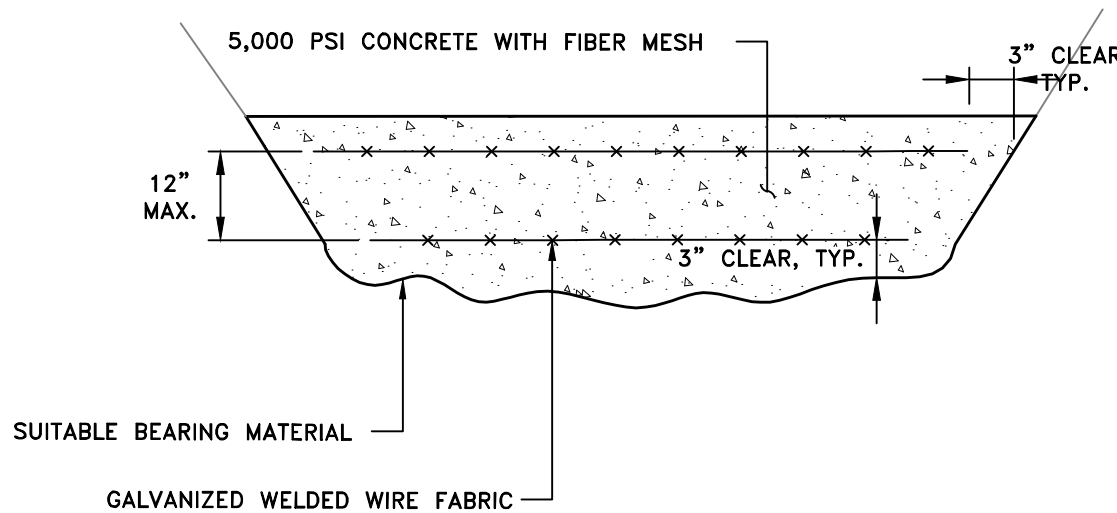
STRAW BALE DETAIL  
NOT TO SCALE



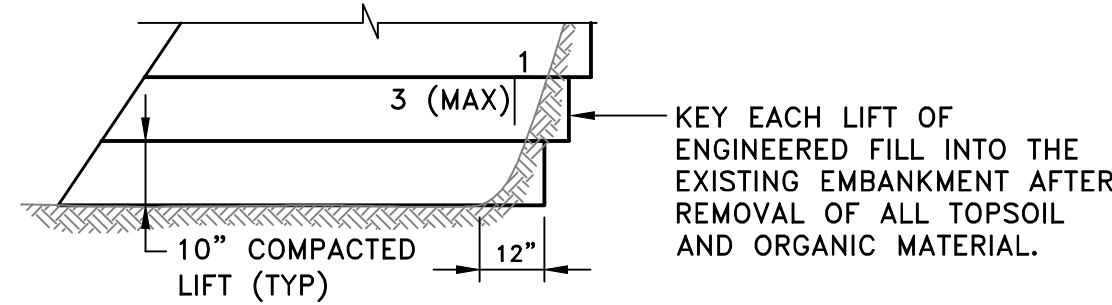
NOTE:

CONTRACTOR TO PERIODICALLY REMOVE SILT AND STONE AT TRENCH DRAIN TO PROMOTE FLOW OF WATER FROM BASIN. ALTERNATIVELY AN OUTFLOW WEIR MAY BE SUBMITTED FOR APPROVAL.

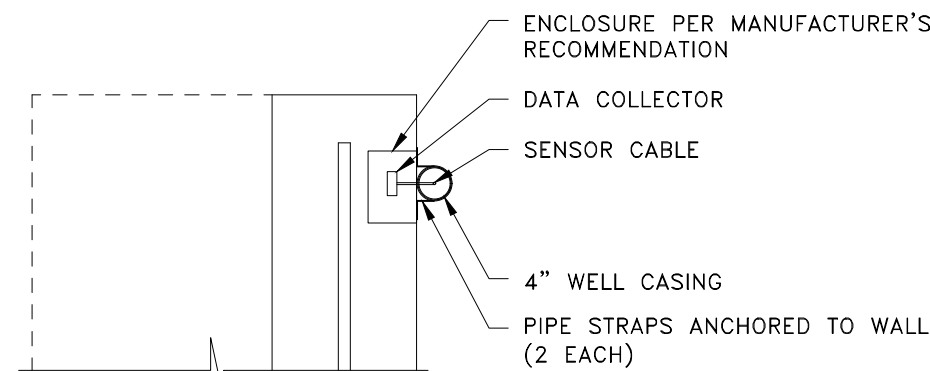
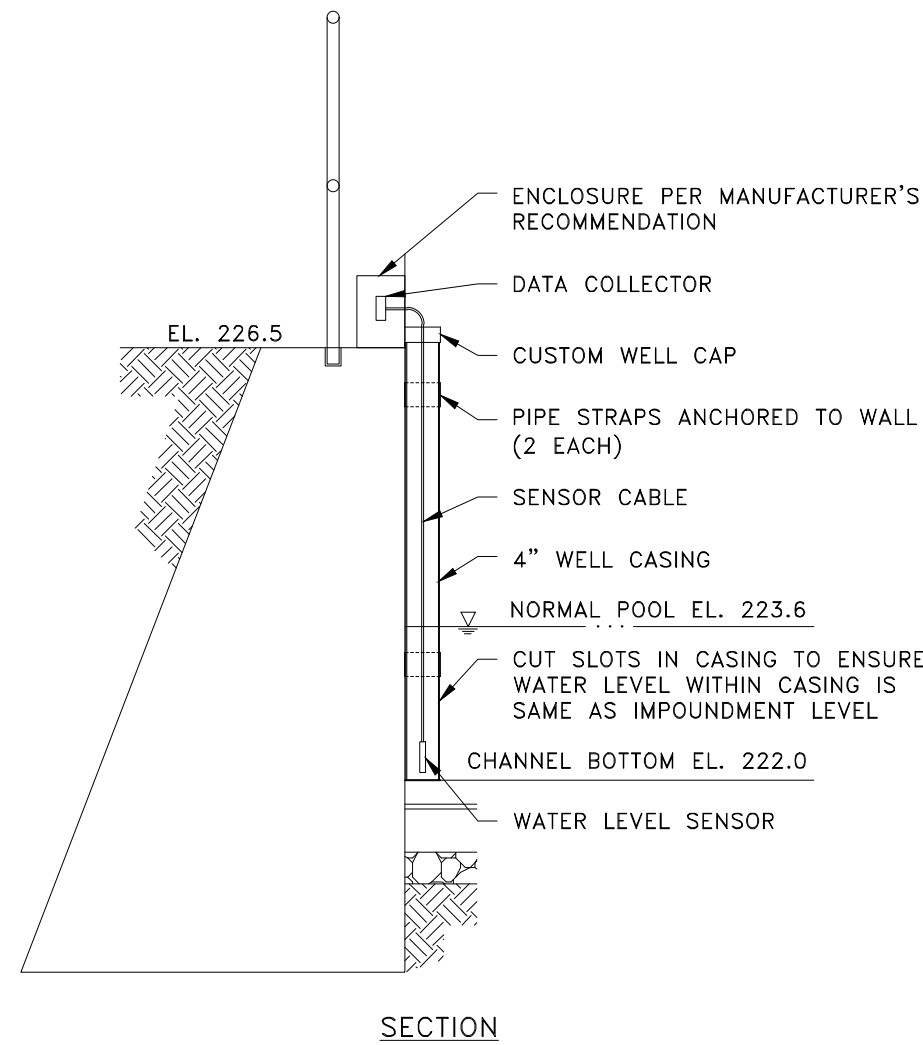
FILTER FABRIC DEWATERING BASIN  
NOT TO SCALE



MASS CONCRETE DETAIL  
NOT TO SCALE



PLACEMENT OF FILL MATERIALS  
NOT TO SCALE



PLAN

WATER LEVEL METER NOTES:

1. DATA LOGGER: HOBO RX3000
2. COMMUNICATION: CELLULAR WITH PREMIUM 4G DATA PLAN
3. POWER: 15 WATT SOLAR PANEL WITH BATTERY BACKUP
4. ADDED SENSORS: HOBOnet RAINFALL (INCHES) SENSOR
5. WATER LEVEL SENSOR: FRESHWATER SS LEVEL SENSOR, 30', TITANIUM/ACETAL, 2.8m CABLE, WATER LEVEL SENSOR MODULE, AND WELL CAP
6. ADDED NODULES: HOBOnet MANAGER

WATER LEVEL METER

SCALE: 1"=2'



SCALE ADJUSTMENT  
GUIDE  
0" 1"  
BAR IS ONE INCH ON  
ORIGINAL DRAWING.

SNAKE BROOK DAM REHABILITATION

MA01119  
WAYLAND, MASSACHUSETTS  
TOWN OF WAYLAND CONSERVATION COMMISSION

REVISIONS:


PROJECT NO.:	19167.02
DATE:	SEPTEMBER 2022
SCALE:	AS NOTED
DESIGNED BY:	MLP
CHECKED BY:	MED
DRAWN BY:	LMC
APPROVED BY:	ARO

MISCELLANEOUS  
DETAILS

SHEET NO.:

4.0

90% DESIGN SUBMISSION