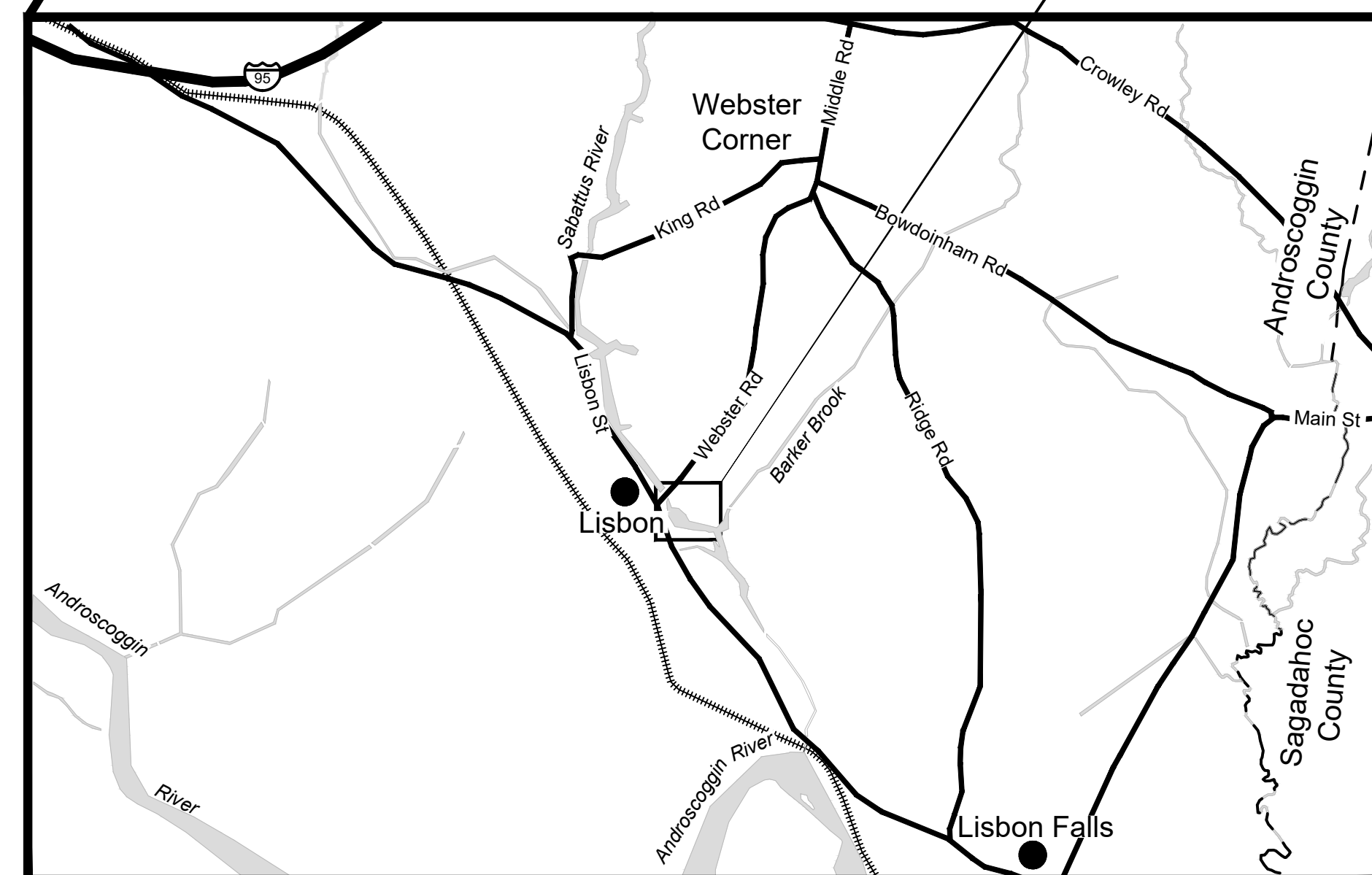
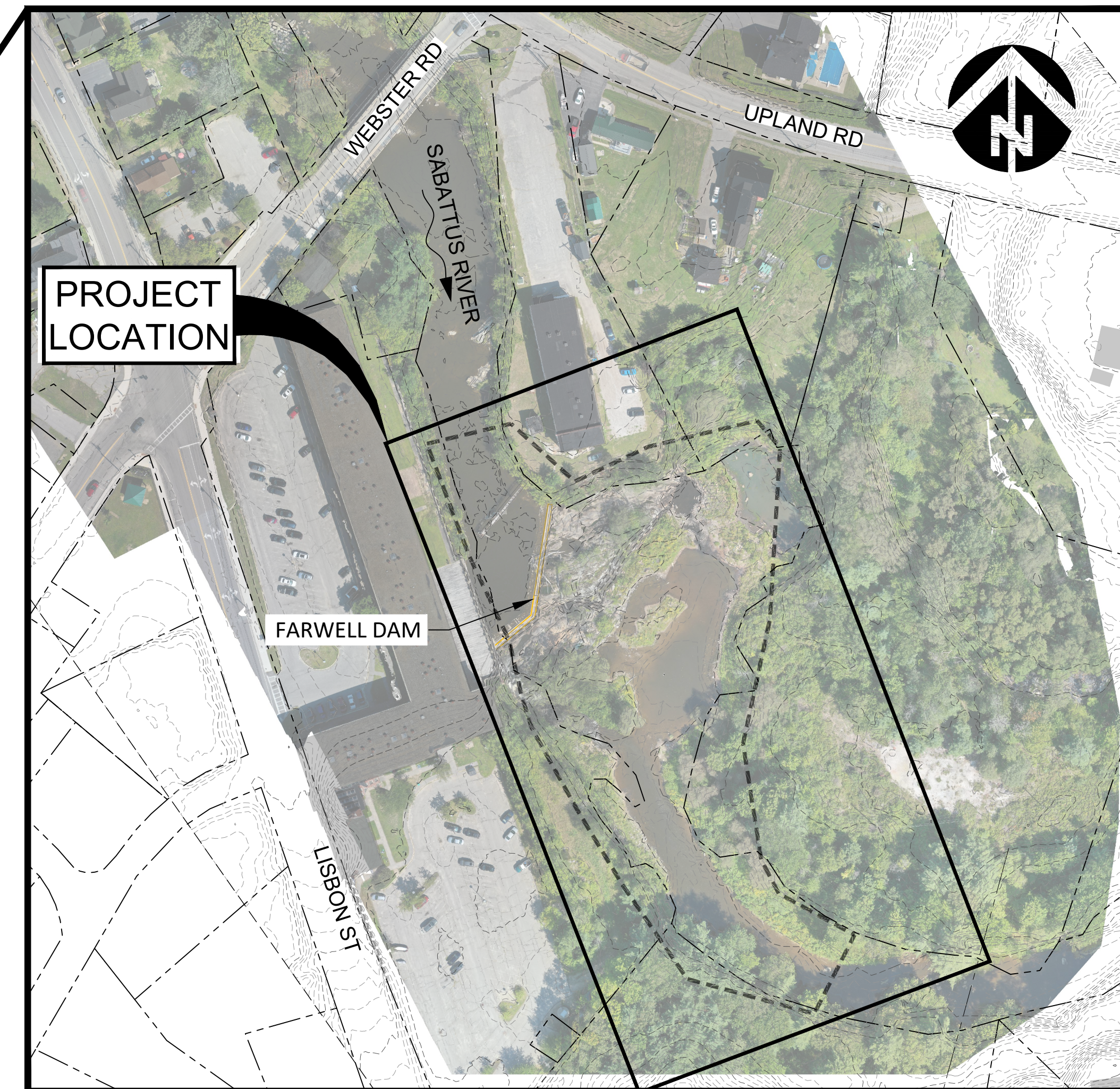


FARWELL DAM FISH PASSAGE

SABBATUS RIVER, LISBON, ME

75% DESIGN

SEPTEMBER, 2023



Sheet List Table

- | | |
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| 8 | NATURE LIKE FISHWAY PLAN & PROFILE (3 OF 3) STA 2+00-6+00 |
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| 16 | PLANTING PLAN |

COORDINATES:
 LATITUDE: 44°01'51.71" N
 LONGITUDE: 70°06'10.95" W

WATERBODY: SABBATUS RIVER
 TRIBUTARY OF: ANDROSCOGGIN RIVER

NO.	BY	DATE	REVISION DESCRIPTION

BB	MYS	
DRAWN	DESIGNED	CHECKED
MB	9/30/2023	
APPROVED	DATE	PROJECT

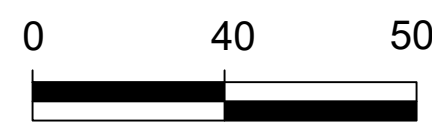
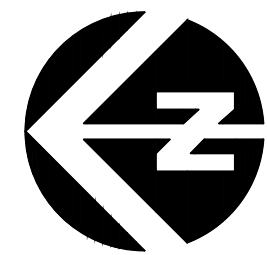
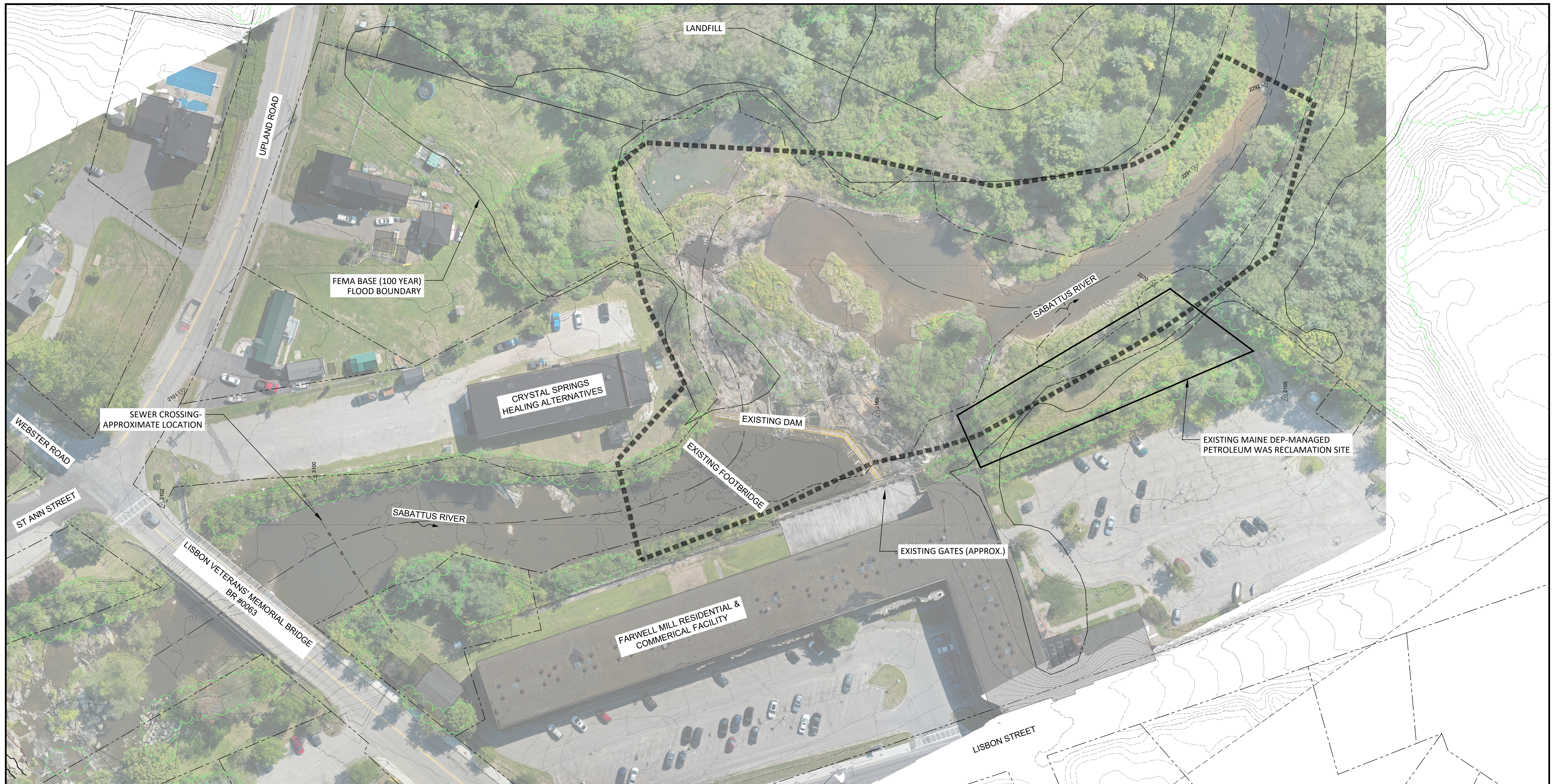
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 LISBON, ME



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COVER SHEET, LOCATION MAP,
 AND SHEET INDEX

SHEET
 1 OF 16



SCALE IN FEET
 BAR LENGTHS MEASURE
 1-INCH ON 22 IN. X 34IN.
 PRINT

NOTES:

1. TOPOGRAPHIC DATA BASED ON SURVEY COLLECTED BY INTERFLUVE JANUARY 2021, AND SEVEE AND MAHER OCTOBER 2020.
2. BATHYMETRIC DATA BASED ON SURVEY COLLECTED BY INTER-FLUVE OCTOBER 2020, SEPTEMBER 2021, AND AUGUST 2023, AS WELL AS SURVEY COLLECTED BY SEVEE AND MAHER DECEMBER 2020.
3. LIDAR DATA OBTAINED FROM USGS VIA MAINE GIS, COLLECTED IN 2009, PROVIDES SUPPLEMENTAL TOPOGRAPHY OUTSIDE THE LIMITS OF THE TOPOGRAPHIC AND BATHYMETRIC SURVEY.
4. HORIZONTAL AND VERTICAL COORDINATES ARE REFERENCED TO MAINE STATE PLANE, WEST ZONE, NAD 83, US SURVEY FEET. ELEVATIONS ARE REFERENCED TO NAVD 1988, FEET.

SURVEY CONTROL

2101	437083.00	2969513.08	181.05	CP-MEDOT
2102	437099.71	2969419.34	182.11	CP-MAG
2105	436168.04	2969508.25	162.97	CP-"X" ON MANHOLE
2169	436506.81	2969494.93	158.02	CP
2270	436278.08	2969602.87	146.51	CP
2291	436242.86	2969698.88	148.21	CP
2292	436185.01	2969768.49	146.25	CP
3100	436973.54	2969441.67	176.04	CP

LEGEND

- EXISTING 5 FT CONTOUR
- EXISTING 1 FT CONTOUR
- BUILDING
- +— EXISTING RIVER ALIGNMENT
- FEMA FLOOD ZONE

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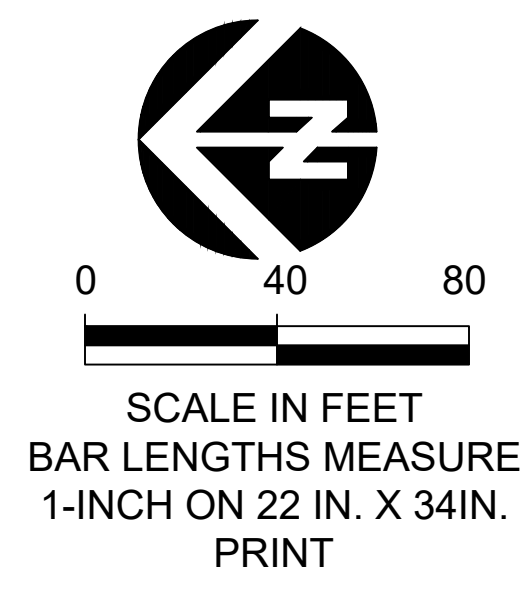
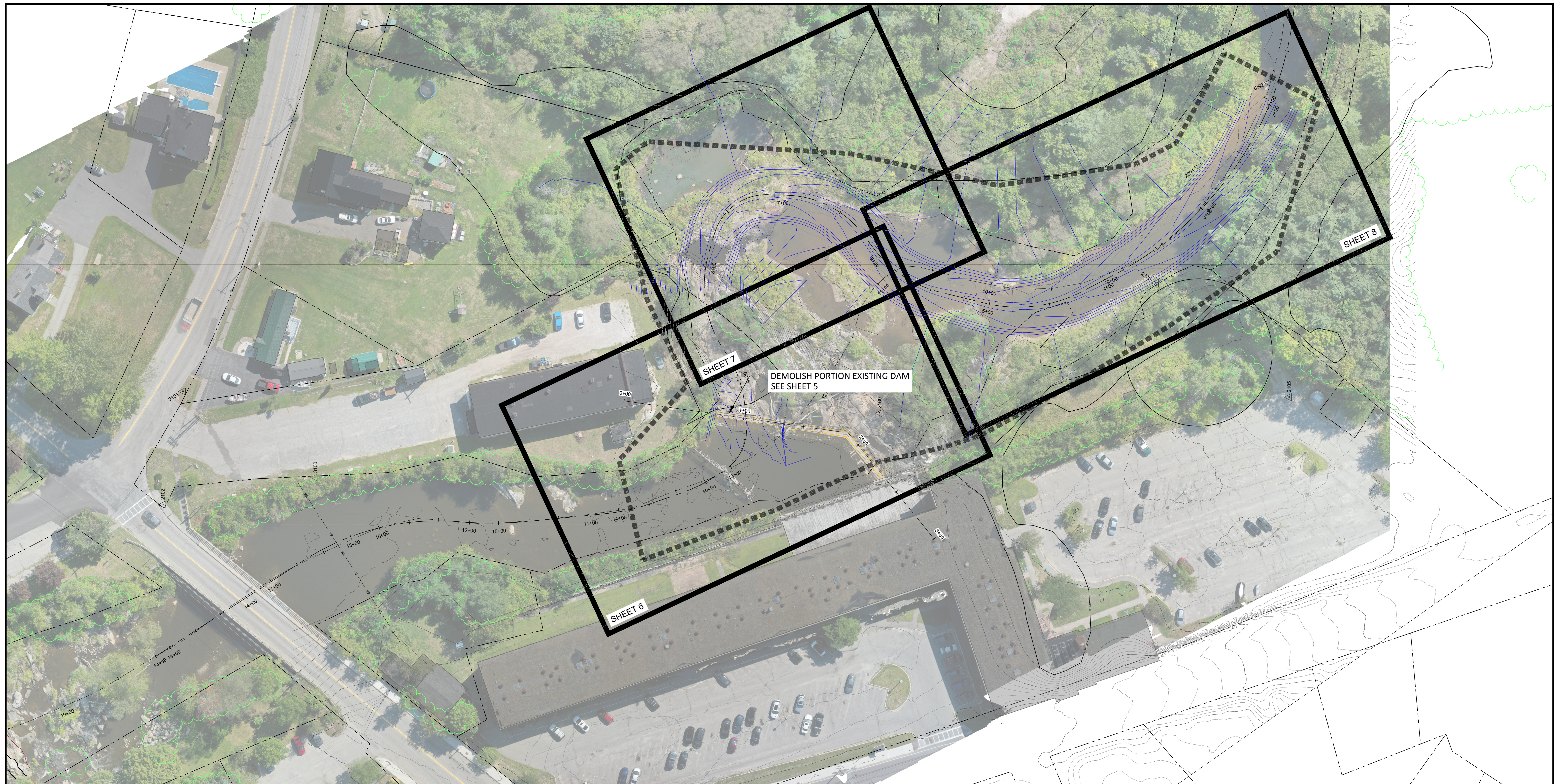


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EXISTING CONDITIONS & SURVEY
 CONTROL

SHEET

2 OF 16



LEGEND

- — — EXISTING 5 FT CONTOUR
- - - - EXISTING 1 FT CONTOUR
- — — PROPOSED 1 FT CONTOUR
- BUILDING
- +—+— EXISTING RIVER ALIGNMENT
- +—+— PROPOSED RIVER ALIGNMENT
- △ CONTROL POINT

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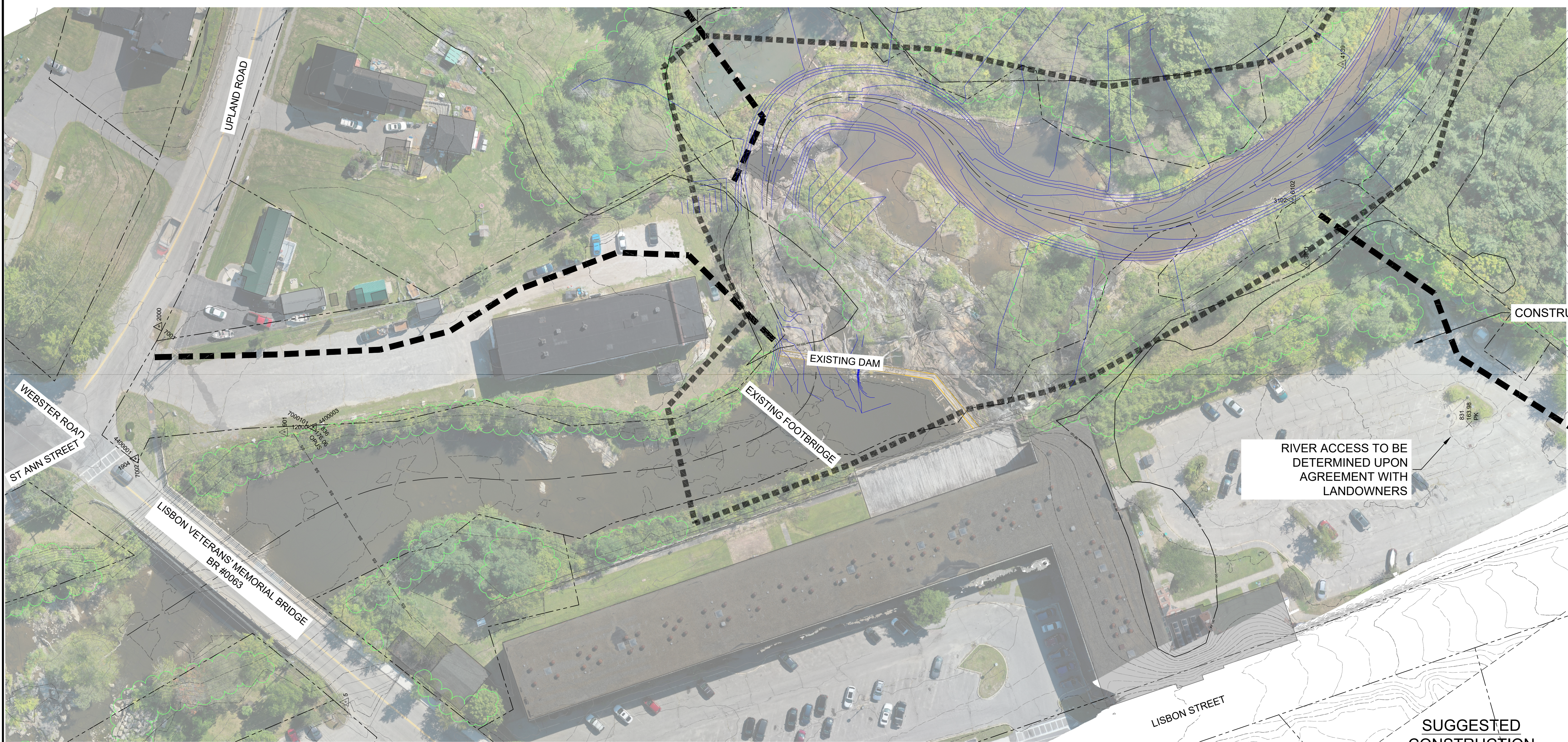


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SITE PLAN

SHEET
3 OF 16

22/09/2023 10:00 AM 2023/09/30 10:00 AM 2023/09/30 10:00 AM 2023/09/30 10:00 AM



**SUGGESTED
CONSTRUCTION
SEQUENCING**

EROSION CONTROL NOTES

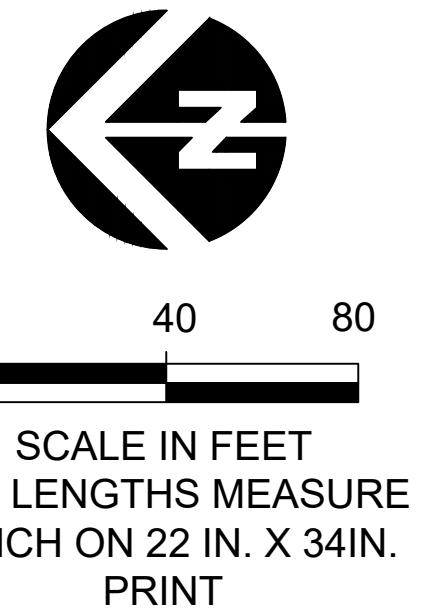
LEGEND

- EXISTING 5 FT CONTOUR
- EXISTING 1 FT CONTOUR
- PROPOSED 1 FT CONTOUR
- BUILDING
- +—+— EXISTING RIVER ALIGNMENT
- +—+— PROPOSED RIVER ALIGNMENT
- △ CONTROL POINT
- ▤ STAGING AREA
- WORK AREA EXCLUSION
- SILT FENCE
- CONSTRUCTION ACCESS
- ▤ LIMITS OF DISTURBANCE

1. ALL SPECIFIC EROSION CONTROL BEST MANAGEMENT PRACTICES, INCLUDING WORK AREA ISOLATION, SEDIMENT CONTAINMENT, AND POLLUTION PREVENTION MEASURES SHALL COMPLY WITH ALL PROJECT PERMITS, PROJECT SPECIFICATIONS, THE MAINE DOT BEST MANAGEMENT PRACTICES FOR EROSION CONTROL AND SEDIMENTATION CONTROL MANUAL (MEDOT 2008), AND THE MAINE DEP EROSION AND SEDIMENT CONTROL PRACTICES FIELD GUIDE FOR CONTRACTORS (MEDEP 2014). SEE ADDITIONAL EROSION CONTROL DETAILS ON SHEET 13.
2. THE CONTRACTOR SHALL SUBMIT A PROJECT SPECIFIC SOIL EROSION AND WATER POLLUTION CONTROL PLAN FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO MOBILIZATION TO THE PROJECT SITE.
3. ALL AREAS OF EXPOSED SOIL SHALL BE SEEDED WITH NATIVE VEGETATIVE SPECIES UPON COMPLETION OF FINISHED GRADING IN EACH AREA OF THE PROJECT SITE.

1. ESTABLISH INGRESS/EGRESS AND INITIAL STAGING AREAS.
2. INSTALL INITIAL EROSION CONTROL MEASURES IN COMPLIANCE WITH PERMITS AND PROJECT SPECIFICATIONS PRIOR TO GROUND DISTURBANCE.
3. INSTALL WATER CONTROLS TO ISOLATE RIVER LEFT CHANNEL FOR WORK UPSTREAM OF AND IN THE AREA OF THE DAM.
4. ESTABLISH ACCESS AND INITIAL WORK AREA ISOLATION FOR THE REMOVAL OF THE RELIC TRESTLE BRIDGE AND RIVER LEFT PORTION OF THE DAM. TEMPORARY ACCESS SHOULD MAINTAIN DOWNSTREAM RIVER FLOW AND MINIMIZE IMPEDIMENT OF FLOW.
5. DEMOLISH RELIC TRESTLE BRIDGE.
6. DEMOLISH RIVER LEFT PORTION OF DAM AND ABUTMENT
7. BEGIN CONSTRUCTION OF NATURE LIKE FISHWAY CHANNEL.
8. BEGIN DECOMMISSIONING TEMPORARY ACCESS FOR UPSTREAM WORK
9. ESTABLISH ACCESS AND WORK AREA ISOLATION FOR DOWNSTREAM CHANNEL CONSTRUCTION
10. COMPLETE CONSTRUCTION OF NATURE LIKE FISHWAY

11. RECONFIGURE EROSION CONTROL MEASURES, AND WORK AREA ISOLATION FOR SOIL MANAGEMENT, AND INSTALLATION OF BANK STABILIZATION.
12. COMPLETE SOIL MANAGEMENT AND INSTALLATION OF BANK STABILIZATION
13. COMPLETE DECOMMISSIONING OF WORK AREAS ISOLATION, SITE, AND RETURN STAGING.



NO.	BY	DATE	REVISION DESCRIPTION

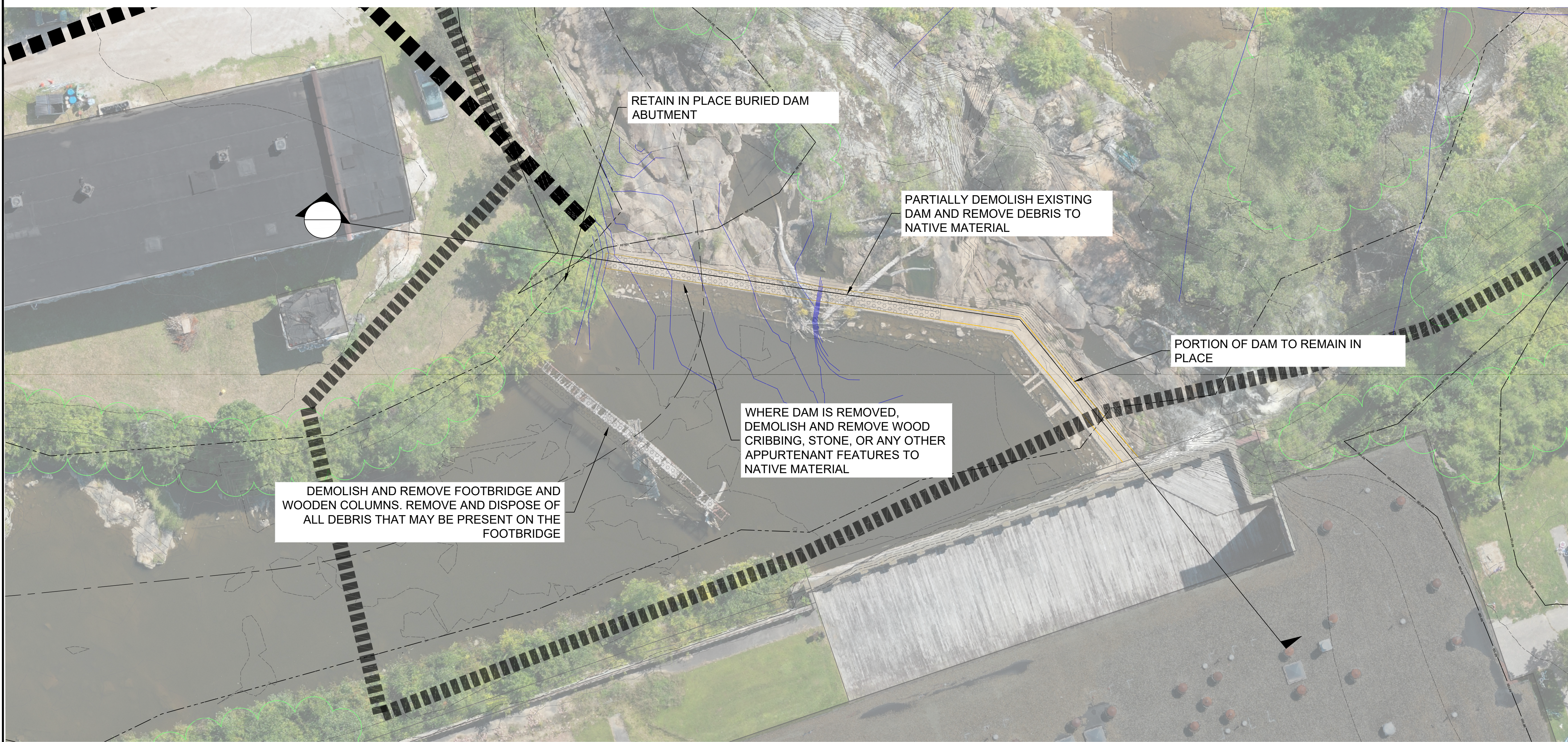
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**ACCESS, STAGING, EROSION
CONTROL & SEQUENCING**



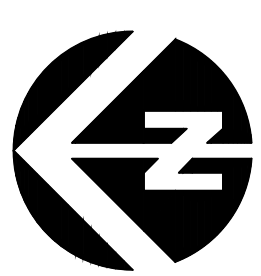
RETAIN IN PLACE BURIED DAM ABUTMENT

PARTIALLY DEMOLISH EXISTING DAM AND REMOVE DEBRIS TO NATIVE MATERIAL

PORTION OF DAM TO REMAIN IN PLACE

WHERE DAM IS REMOVED, DEMOLISH AND REMOVE WOOD CRIBBING, STONE, OR ANY OTHER APPURTENANT FEATURES TO NATIVE MATERIAL

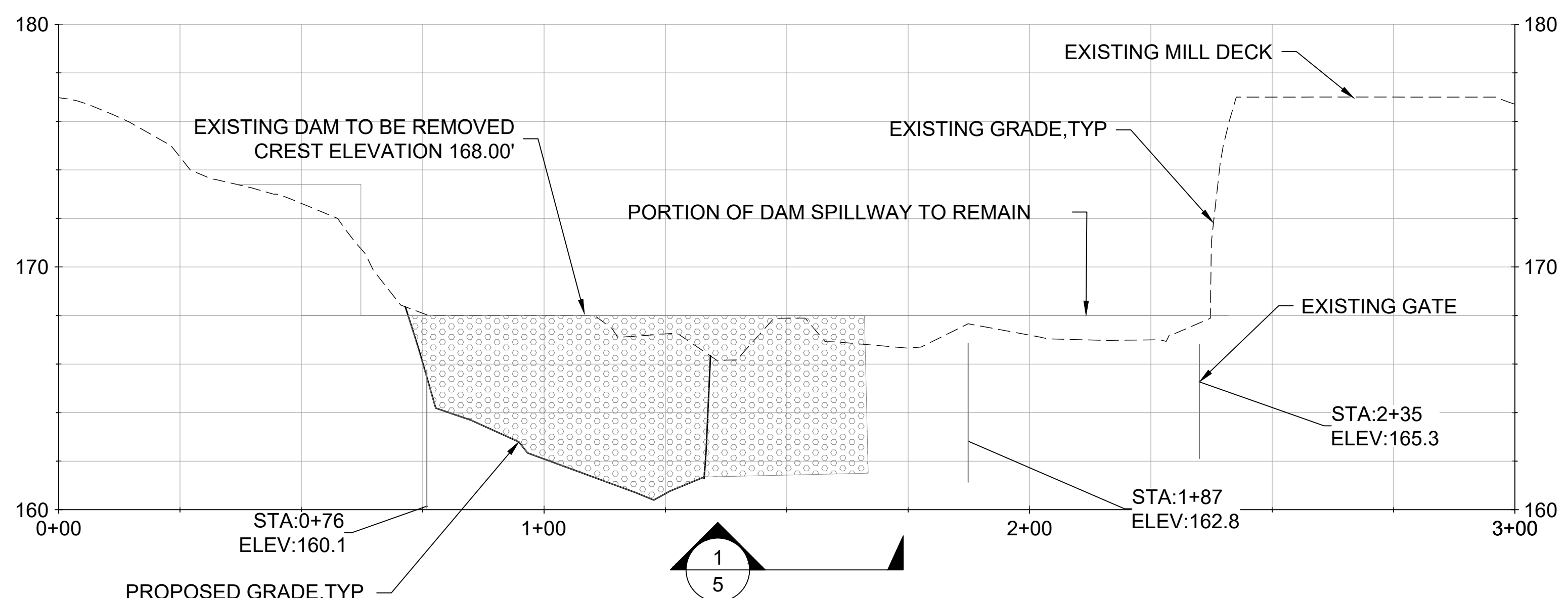
DEMOLISH AND REMOVE FOOTBRIDGE AND WOODEN COLUMNS. REMOVE AND DISPOSE OF ALL DEBRIS THAT MAY BE PRESENT ON THE FOOTBRIDGE



0 15 30
SCALE IN FEET
BAR LENGTHS MEASURE
1-INCH ON 22 IN. X 34IN.
PRINT

LEGEND

- EXISTING 5 FT CONTOUR
- EXISTING 1 FT CONTOUR
- PROPOSED 1 FT CONTOUR
- BUILDING
- +— EXISTING RIVER ALIGNMENT
- +— PROPOSED RIVER ALIGNMENT
- △ CONTROL POINT
- DEMOLISH AND REMOVE



NO.	BY	DATE	REVISION DESCRIPTION

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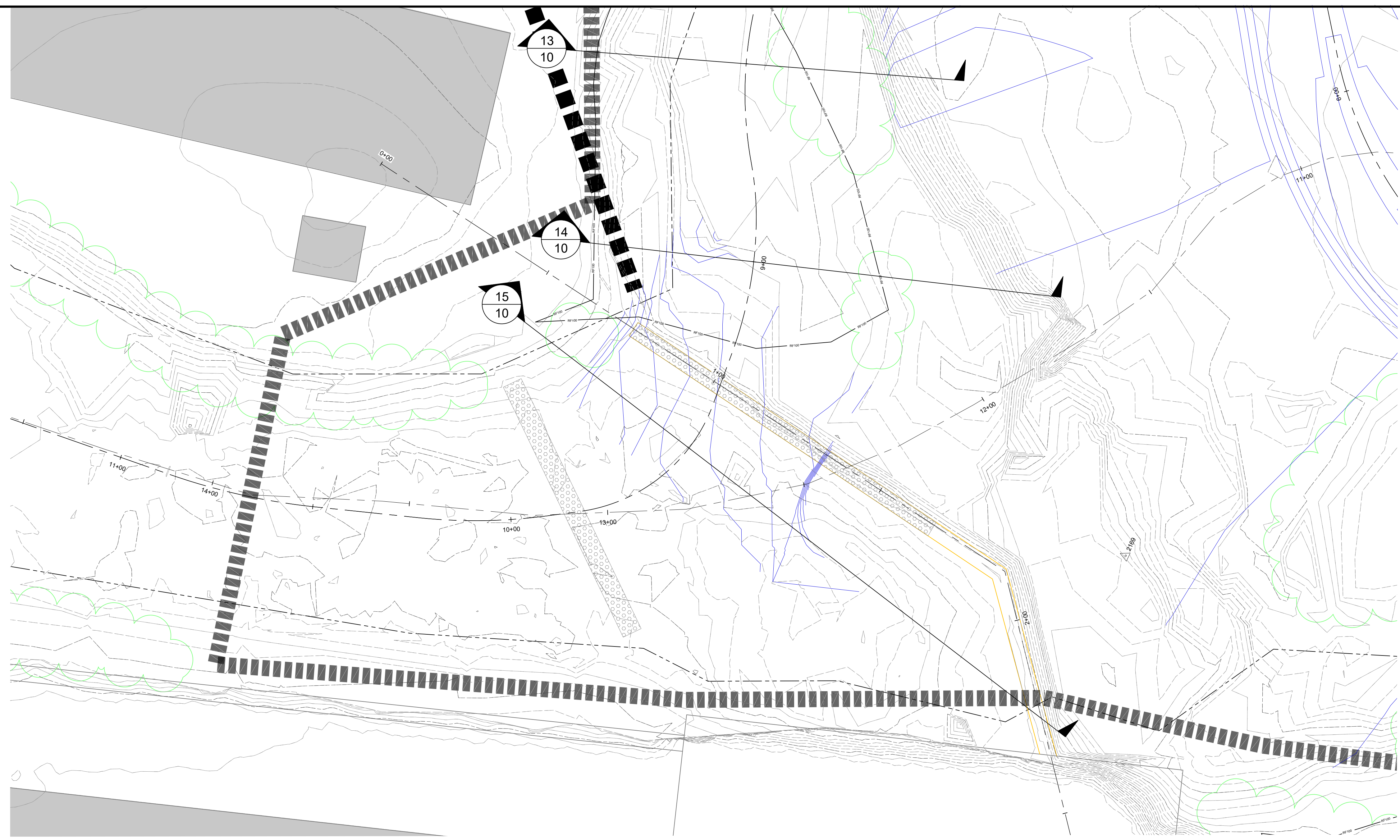
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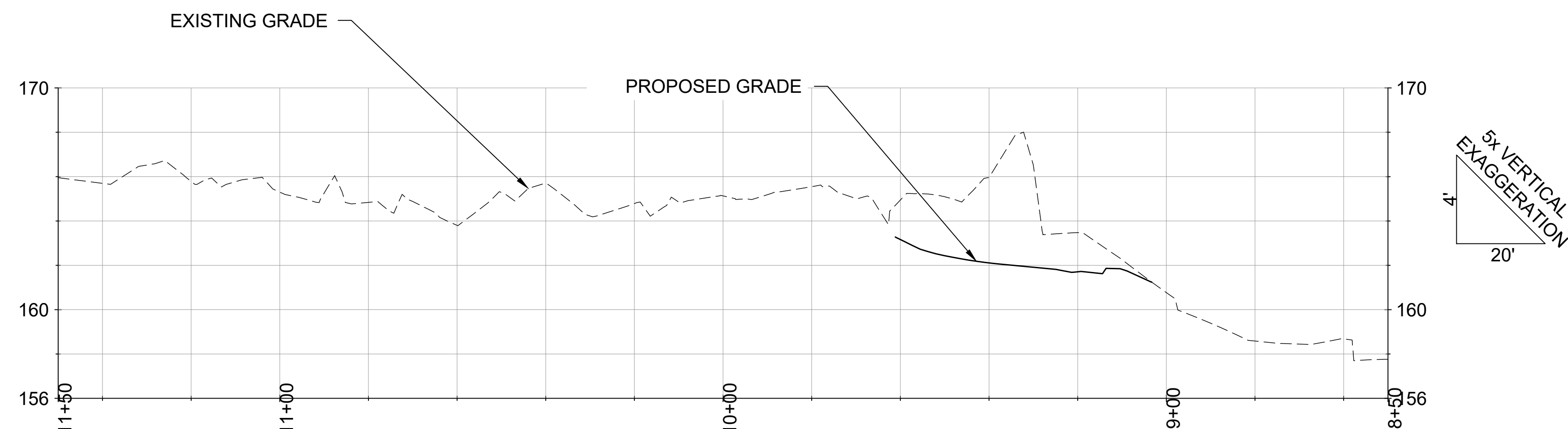
DEMOLITION OVERVIEW PLAN



0 15 30
 SCALE IN FEET
 BAR LENGTHS MEASURE
 1-INCH ON 22 IN. X 34IN.
 PRINT



- LEGEND**
- - - EXISTING 5 FT CONTOUR
 - - - EXISTING 1 FT CONTOUR
 - PROPOSED 1 FT CONTOUR
 - BUILDING
 - +— EXISTING RIVER ALIGNMENT
 - +— PROPOSED RIVER ALIGNMENT
 - △ CONTROL POINT



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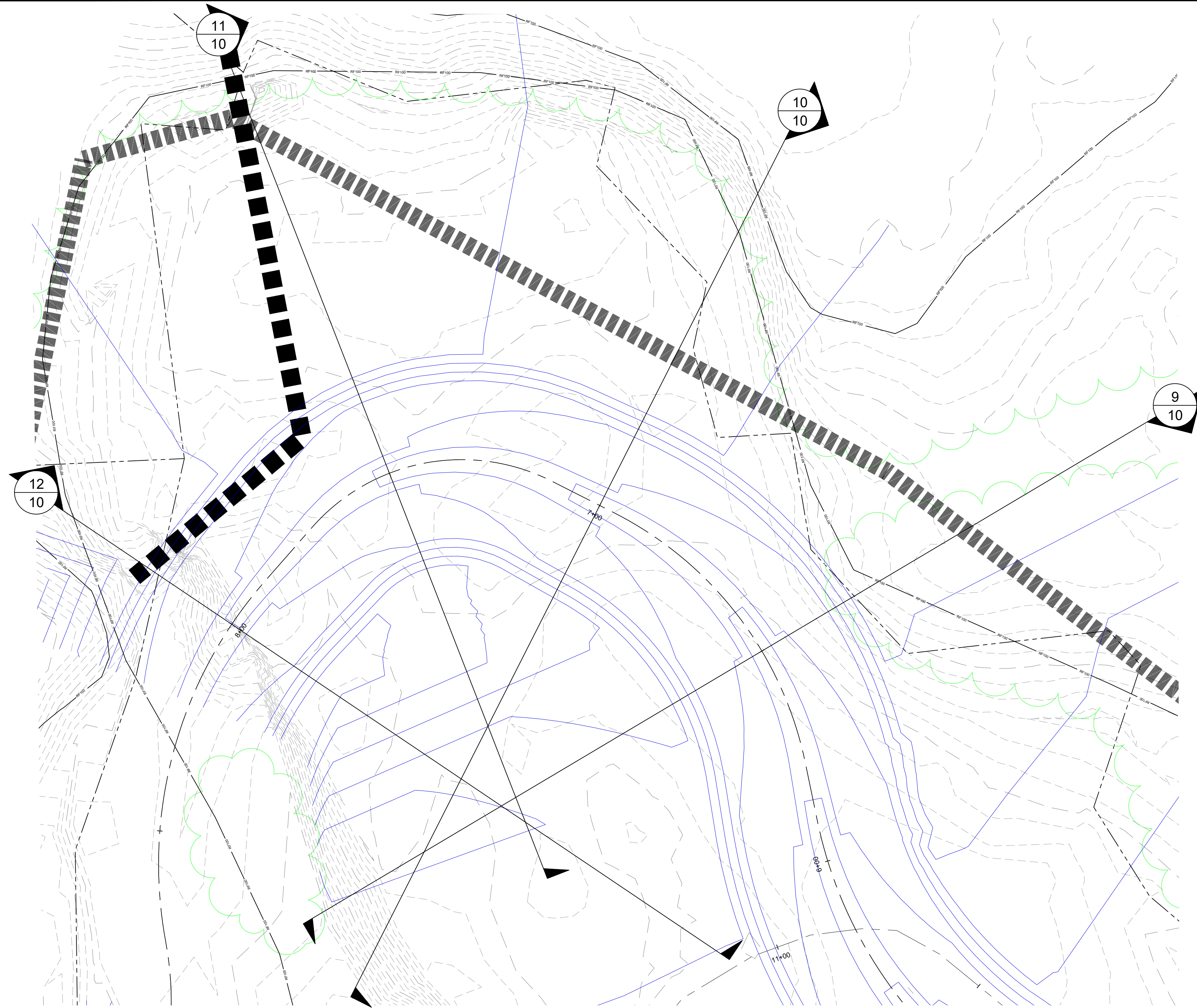
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NATURE LIKE FISHWAY PLAN &
 PROFILE (1 OF 3) STA 8+50-11+50

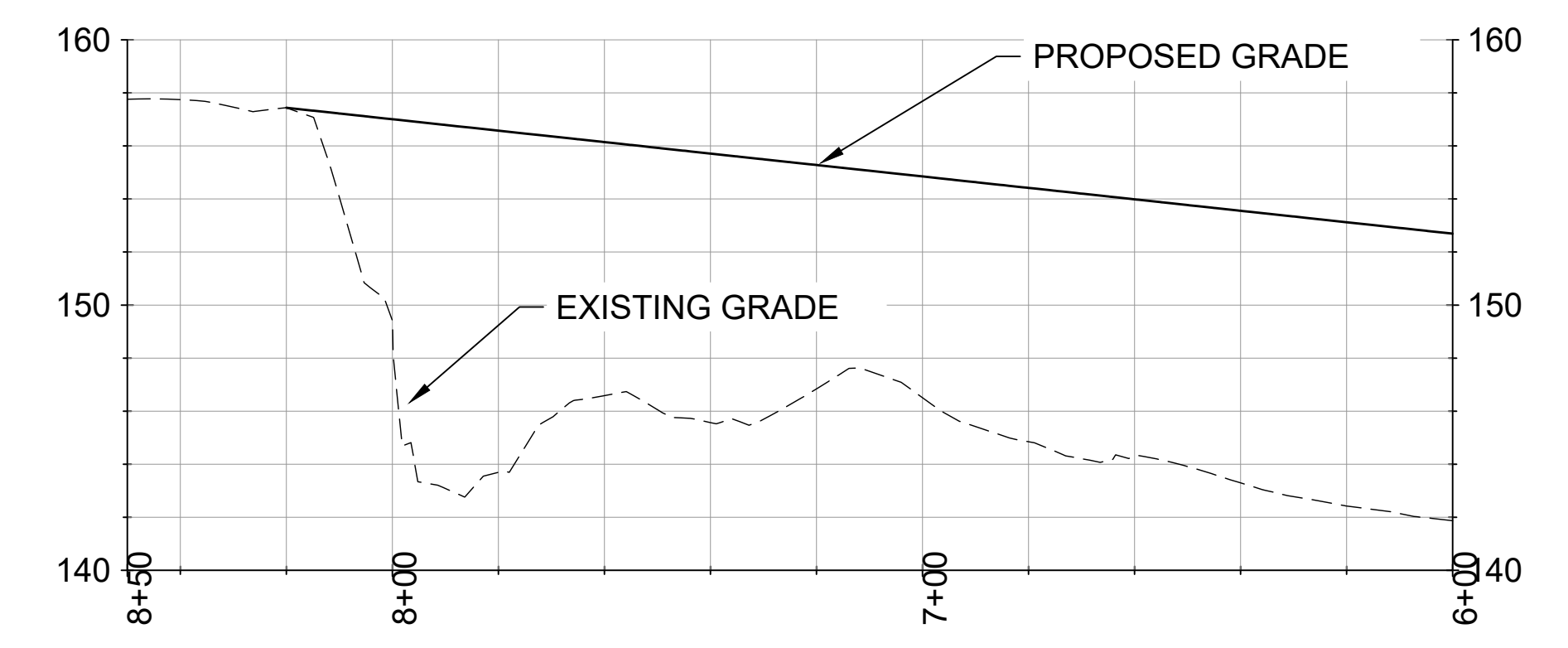
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0 15 30
 SCALE IN FEET
 BAR LENGTHS MEASURE
 1-INCH ON 22 IN. X 34IN.
 PRINT

LEGEND

- EXISTING 5 FT CONTOUR
- - - EXISTING 1 FT CONTOUR
- PROPOSED 1 FT CONTOUR
- █ BUILDING
- +— EXISTING RIVER ALIGNMENT
- +— PROPOSED RIVER ALIGNMENT
- △ CONTROL POINT



5x VERTICAL
 EXAGGERATION
 20'

2/28/2023, 10:00 AM, 10/20/2023, 10:00 AM, 10/20/2023, 10:00 AM, 10/20/2023, 10:00 AM

NO.	BY	DATE	REVISION DESCRIPTION

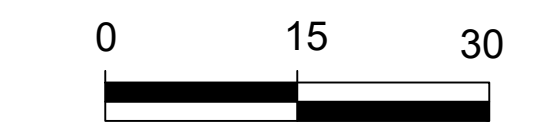
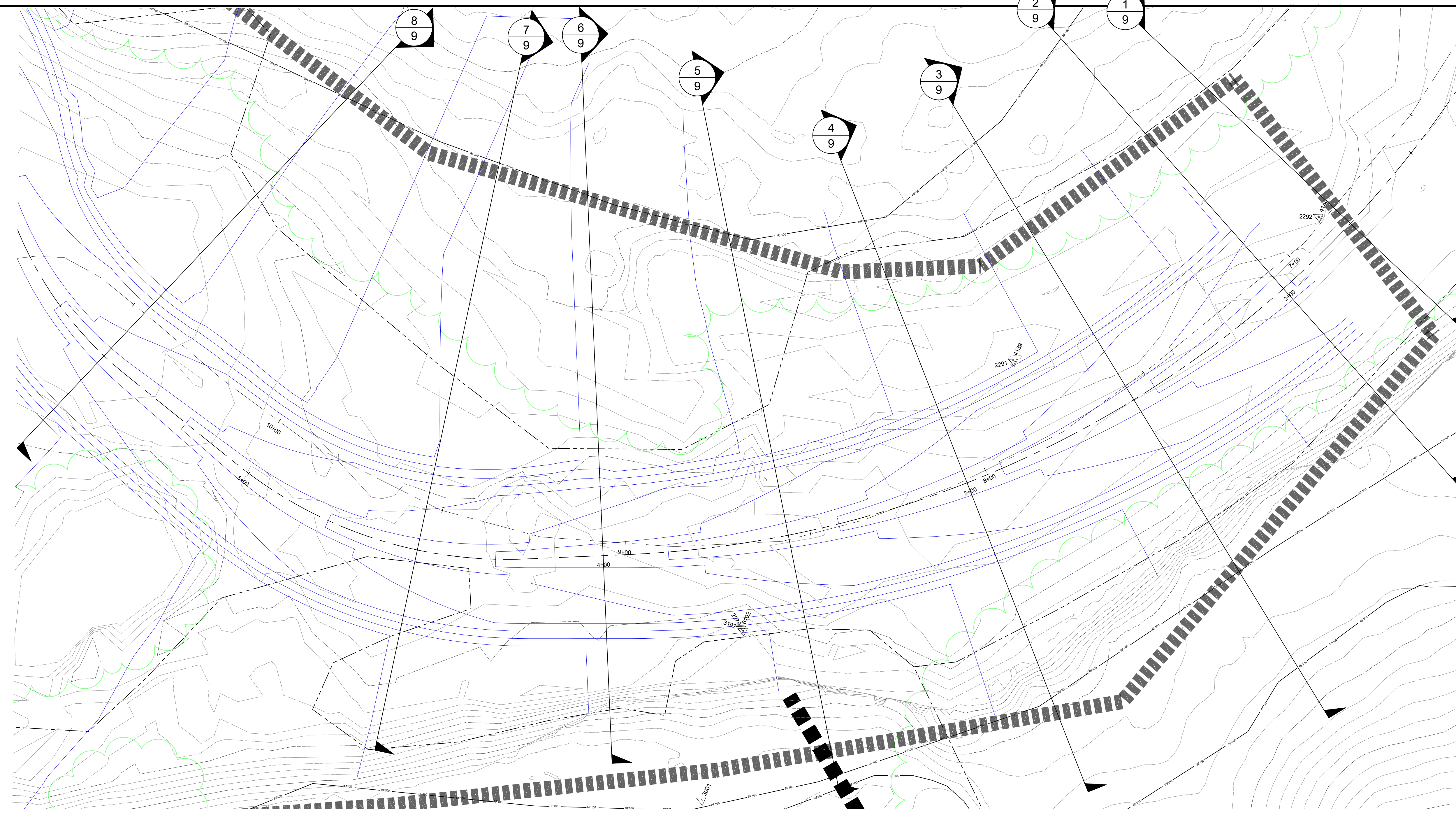
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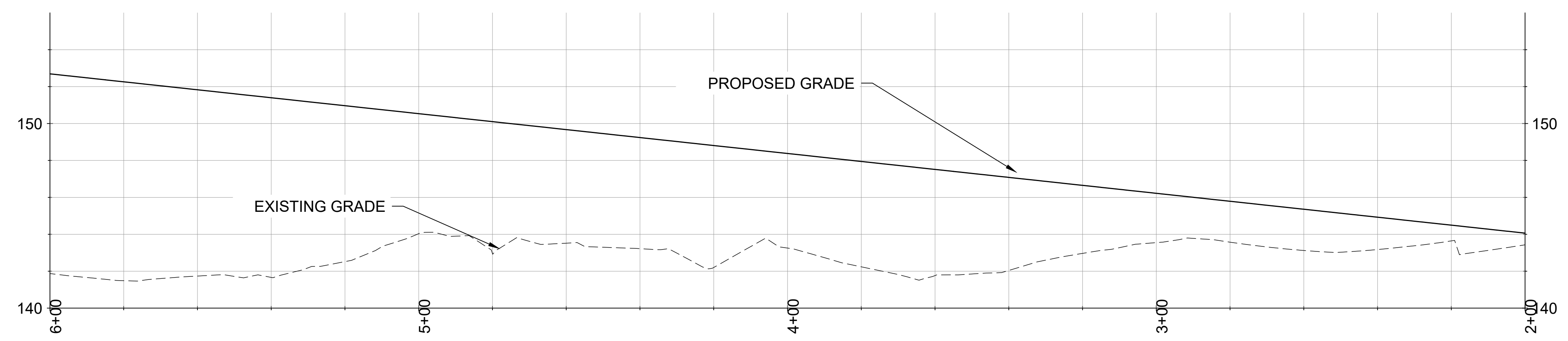
**NATURE LIKE FISHWAY PLAN &
 PROFILE (2 OF 3) STA 6+00-8+50**



SCALE IN FEET
 BAR LENGTHS MEASURE
 1-INCH ON 22 IN. X 34IN.
 PRINT

LEGEND

- EXISTING 5 FT CONTOUR
- - - EXISTING 1 FT CONTOUR
- PROPOSED 1 FT CONTOUR
- █ BUILDING
- 1+00 | EXISTING RIVER ALIGNMENT
- 1+00 | PROPOSED RIVER ALIGNMENT
- △ CONTROL POINT

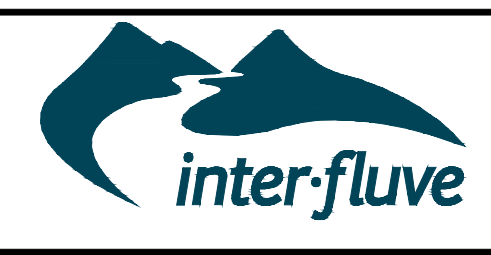


5x VERTICAL
 EXAGGERATION
 20'

NO.	BY	DATE	REVISION DESCRIPTION

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DRAWN	DESIGNED	CHECKED
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APPROVED	DATE	PROJECT

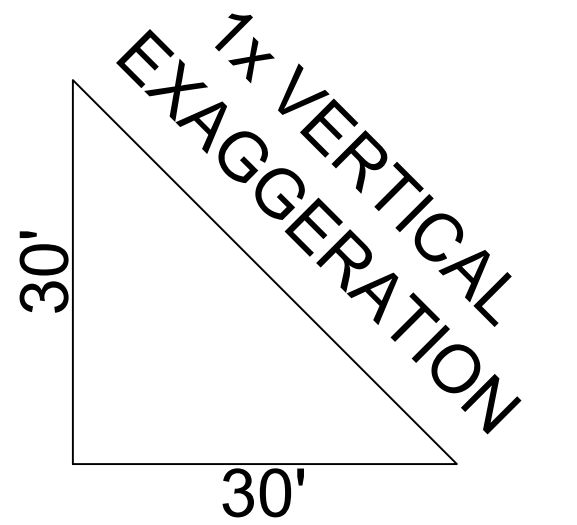
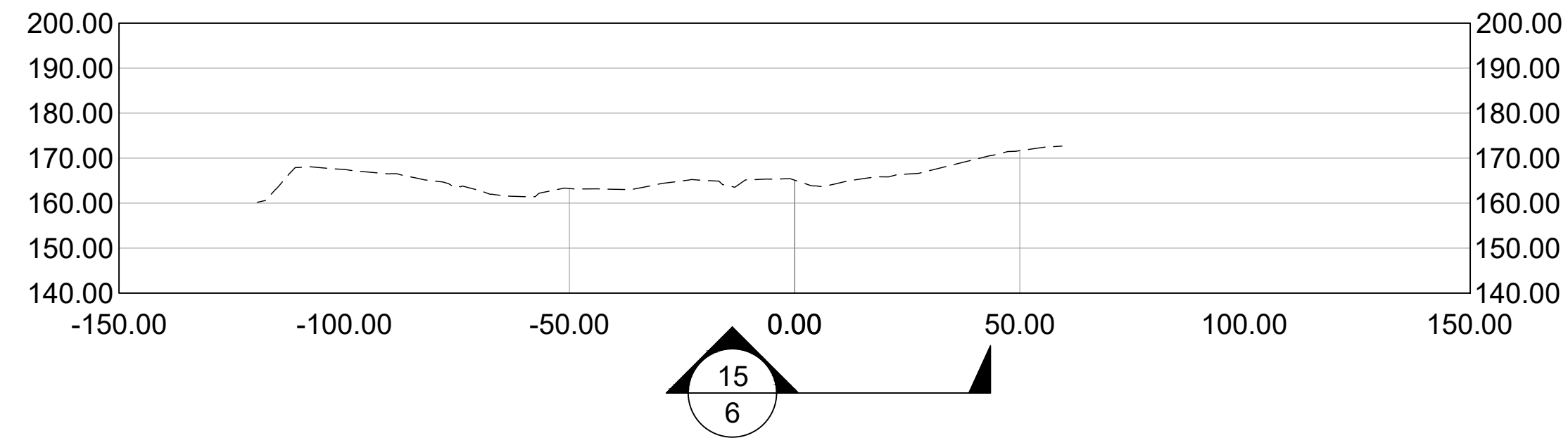
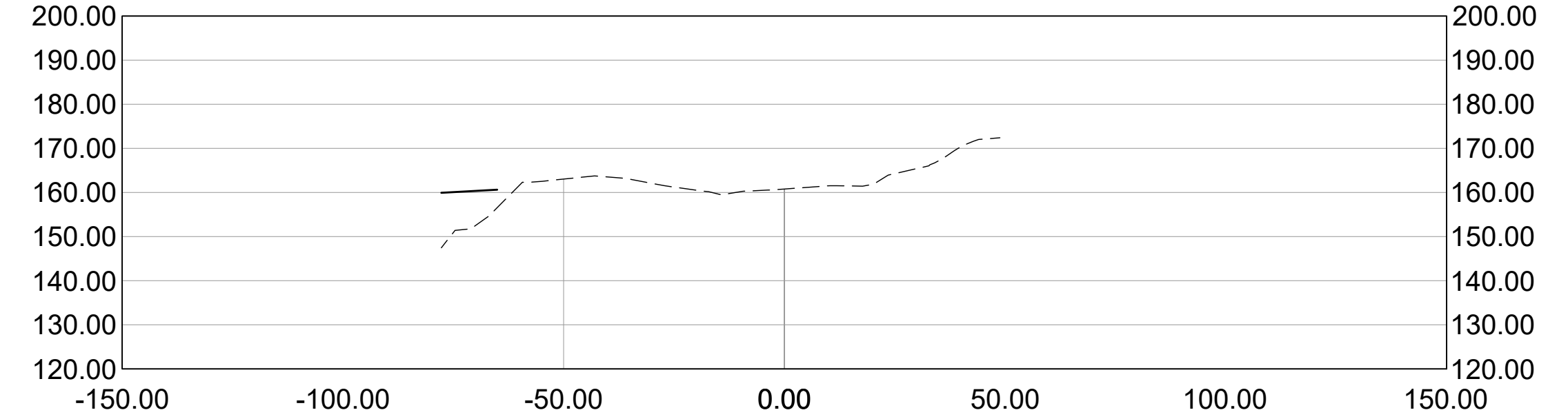
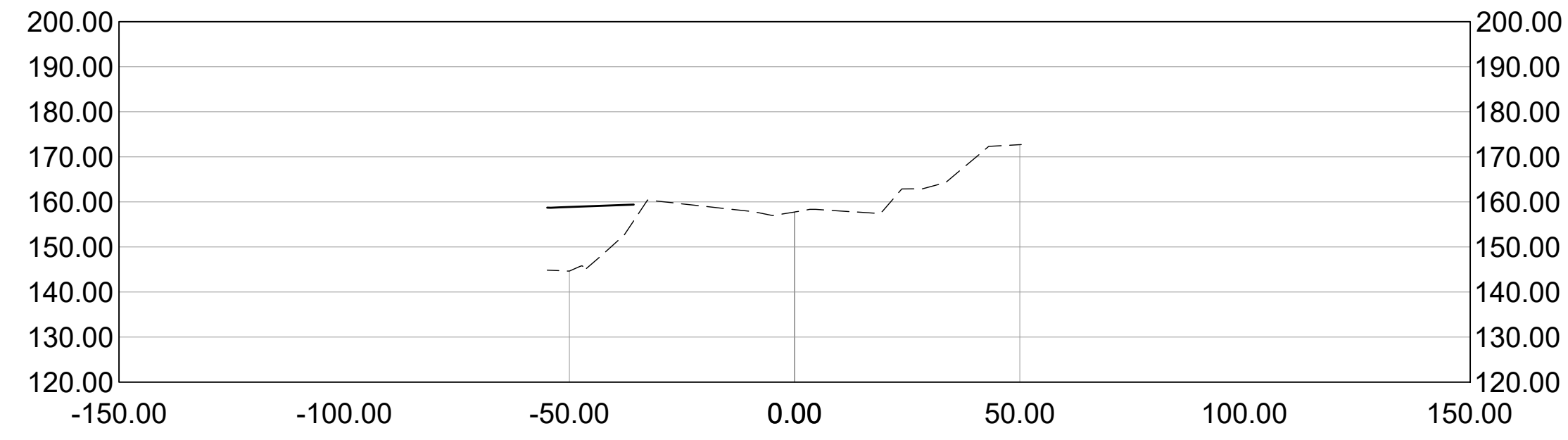
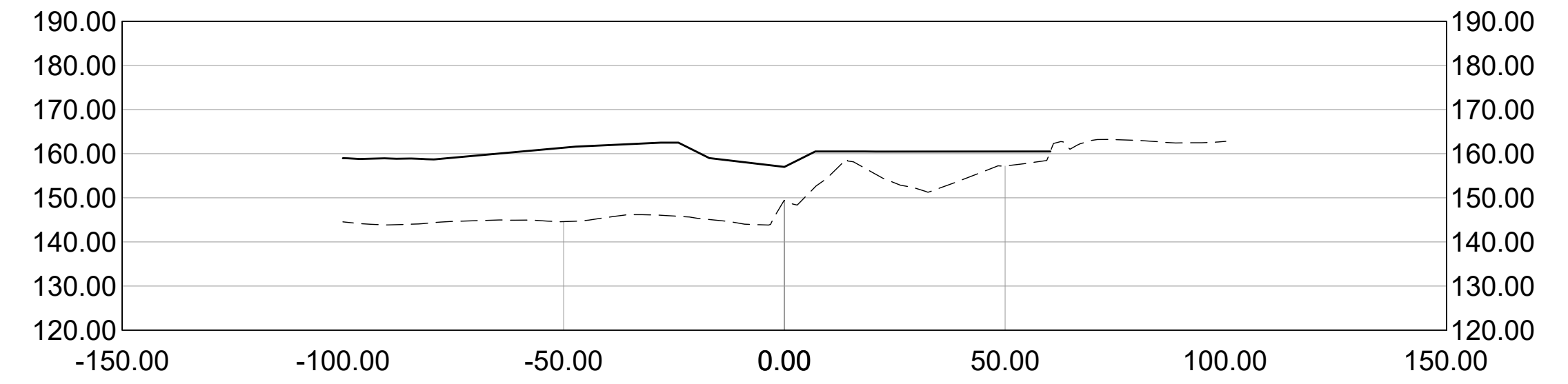
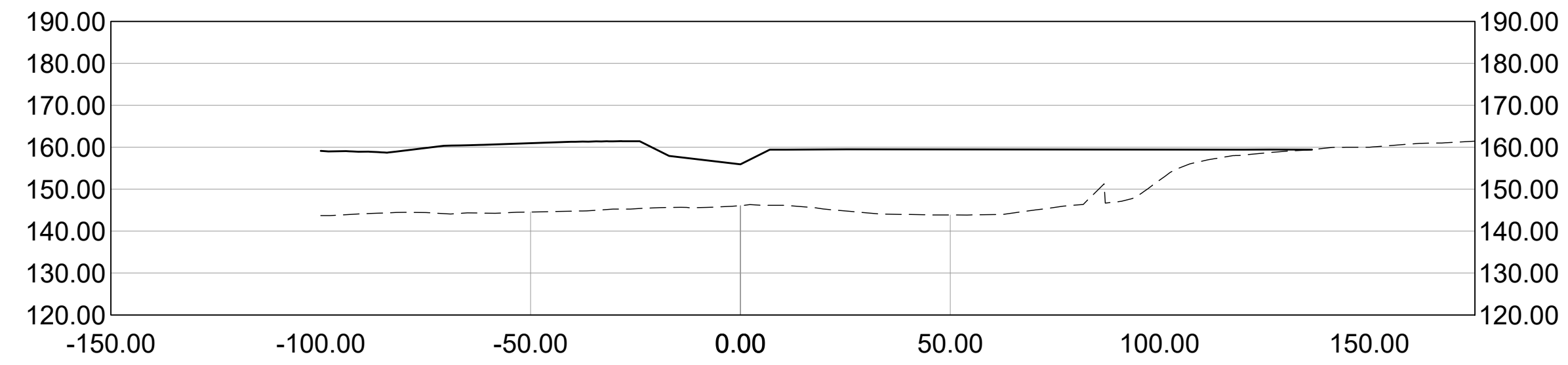
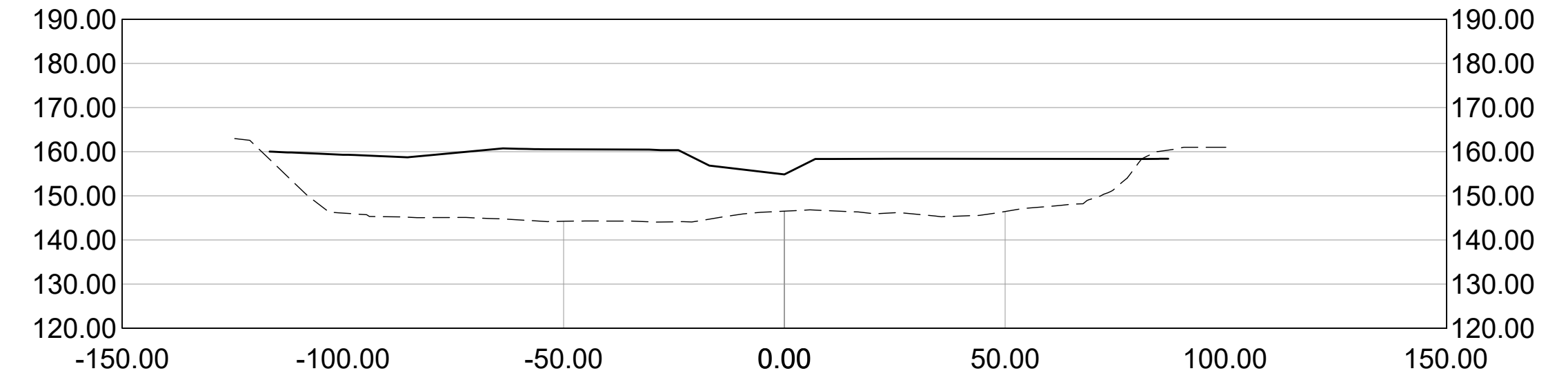
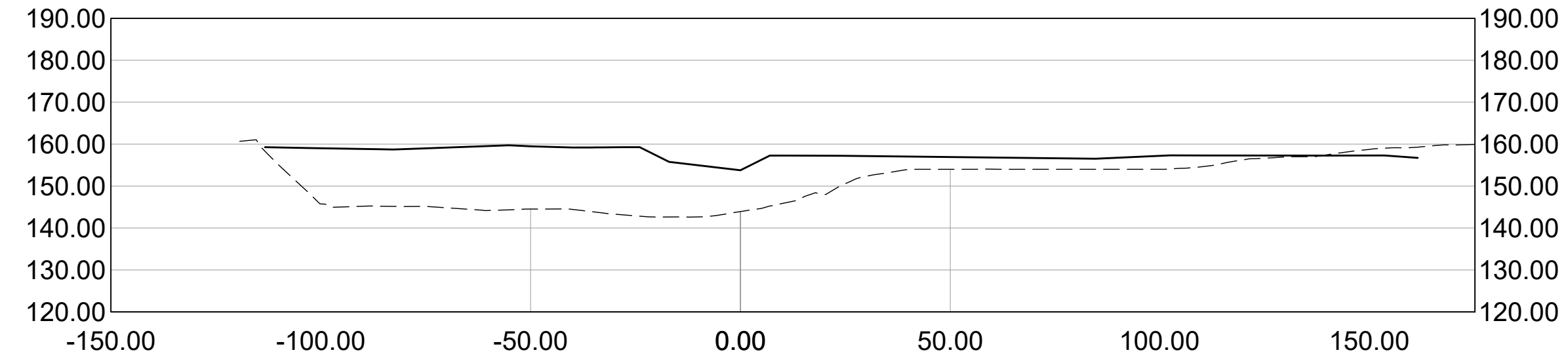
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NATURE LIKE FISHWAY PLAN &
 PROFILE (3 OF 3) STA 2+00-6+00

SHEET
 8 OF 16



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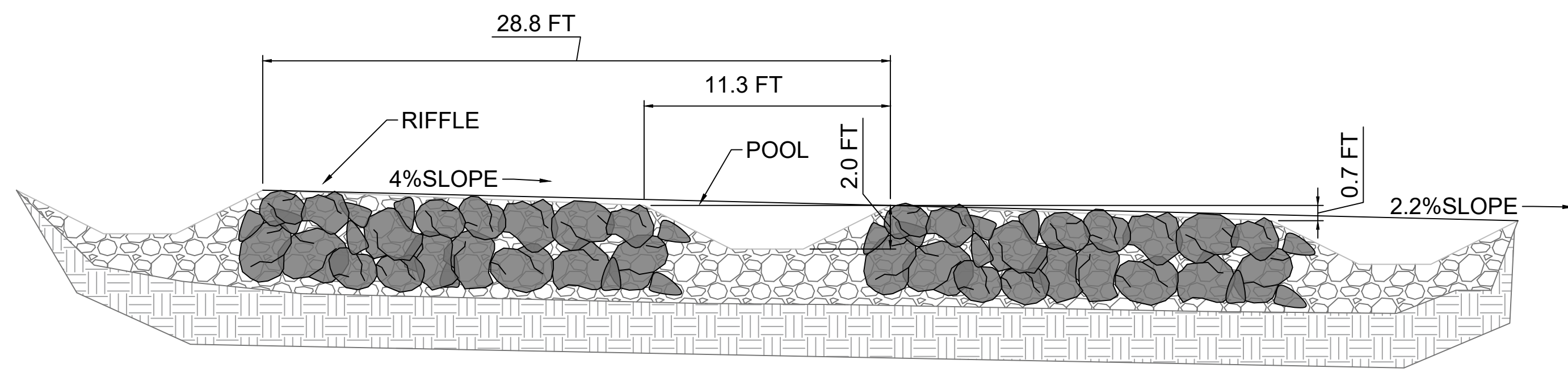
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LIBSON, ME**

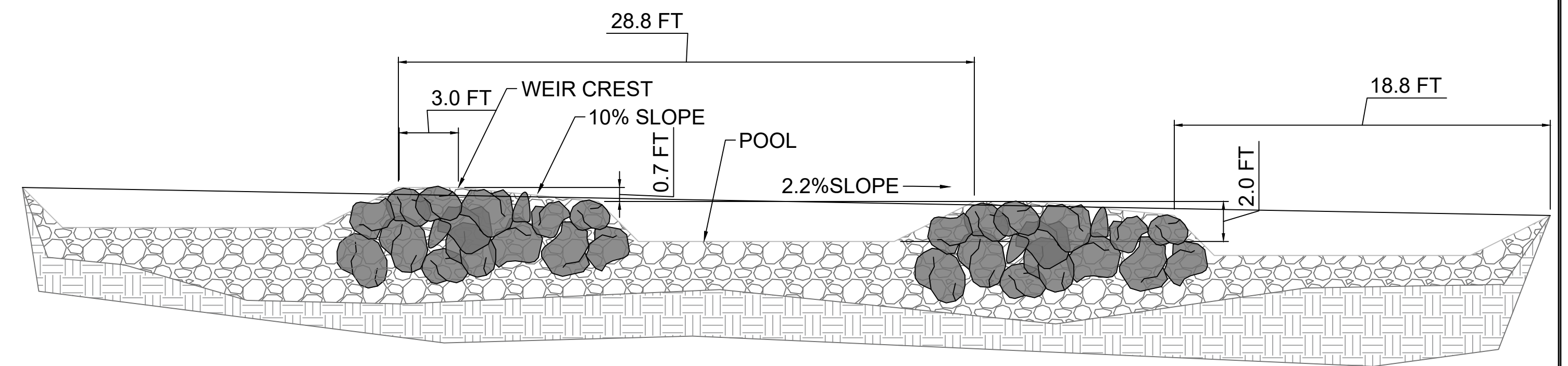


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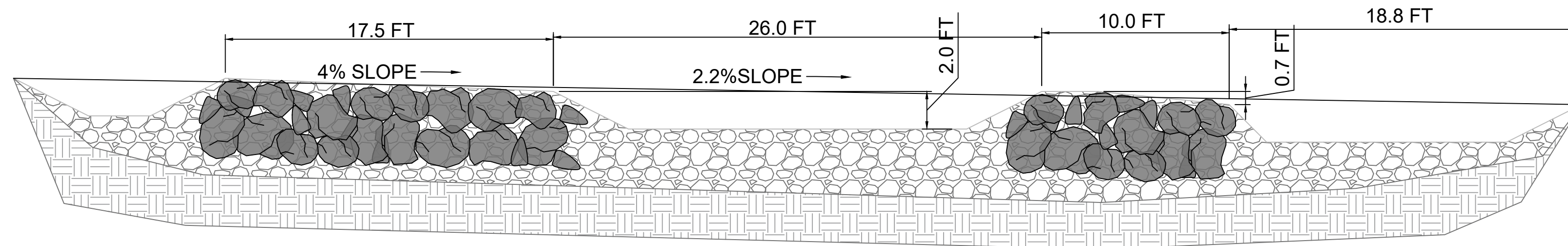
GRADING SECTIONS (2 OF 2)



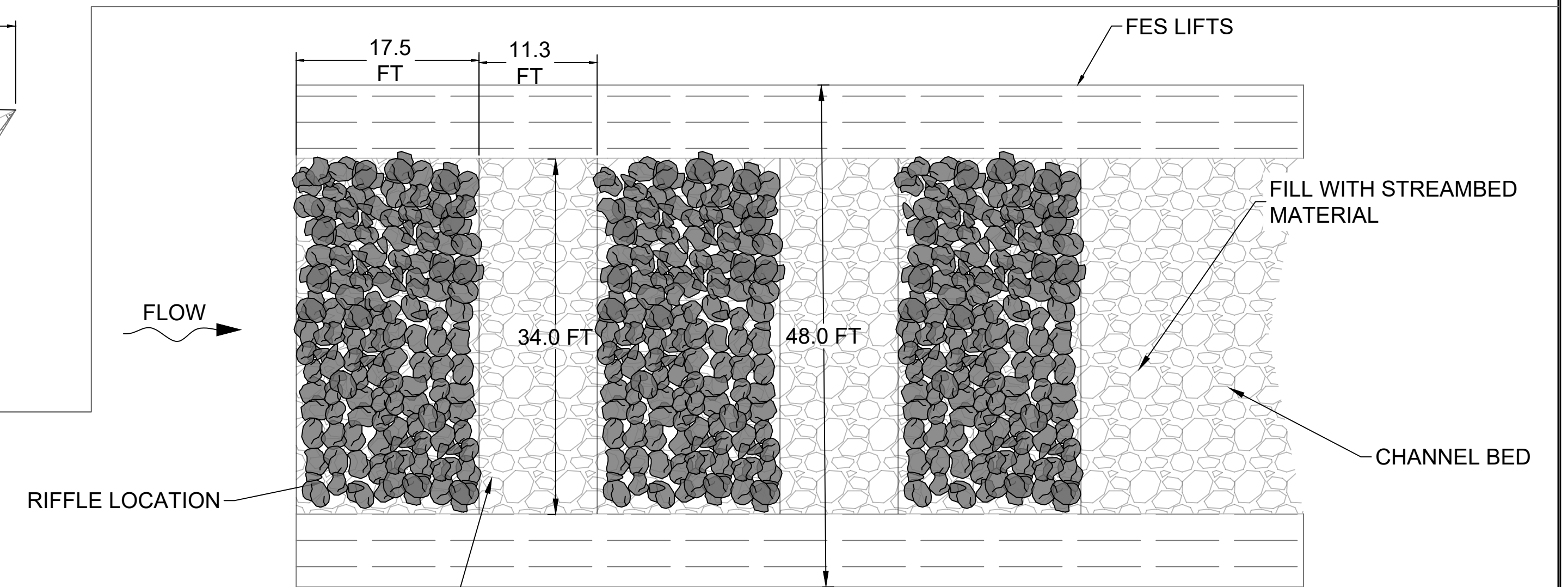
1
11 AVERAGE CHANNEL PROFILE
RIFFLE-POOL SEQUENCE



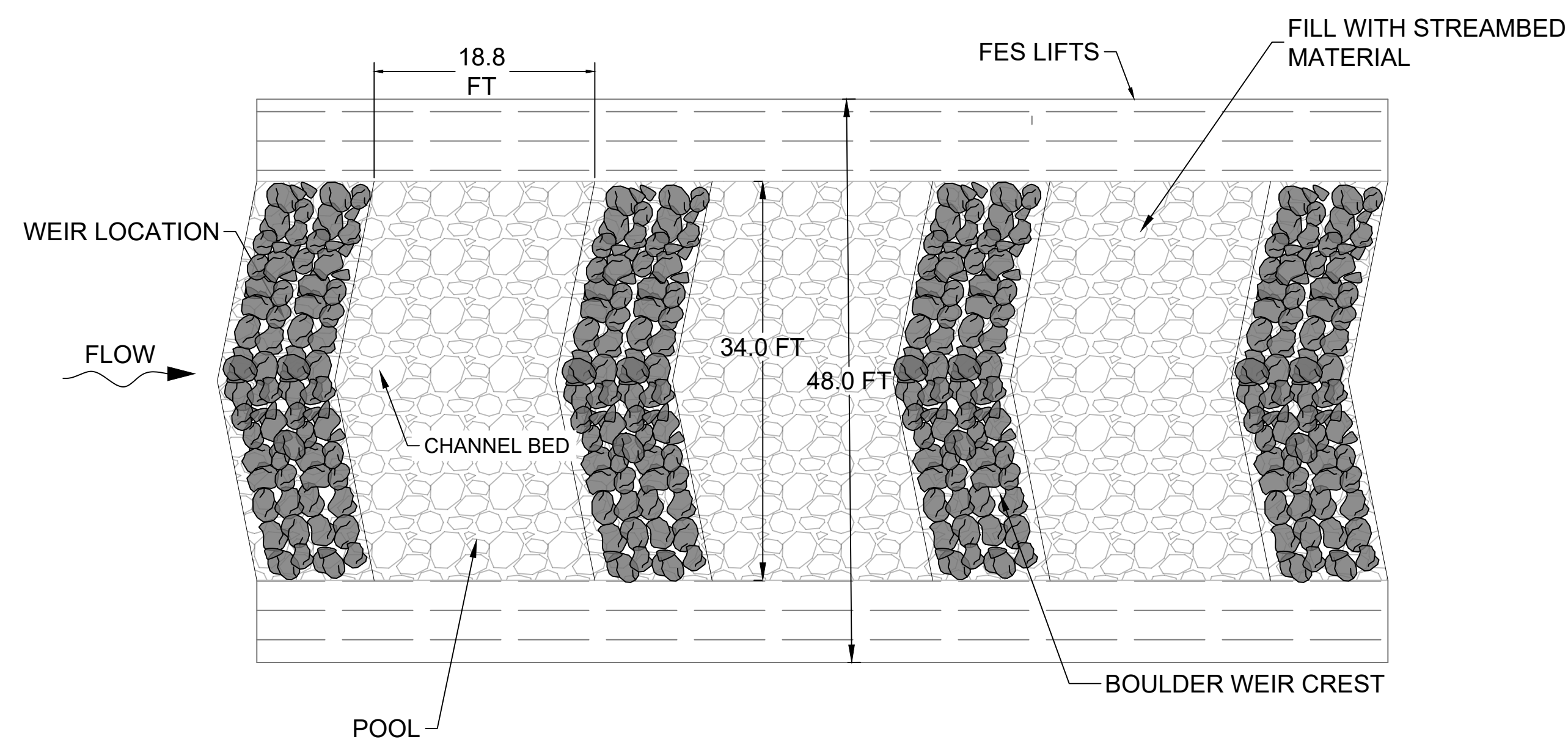
2
11 AVERAGE CHANNEL PROFILE
WEIR-POOL SEQUENCE



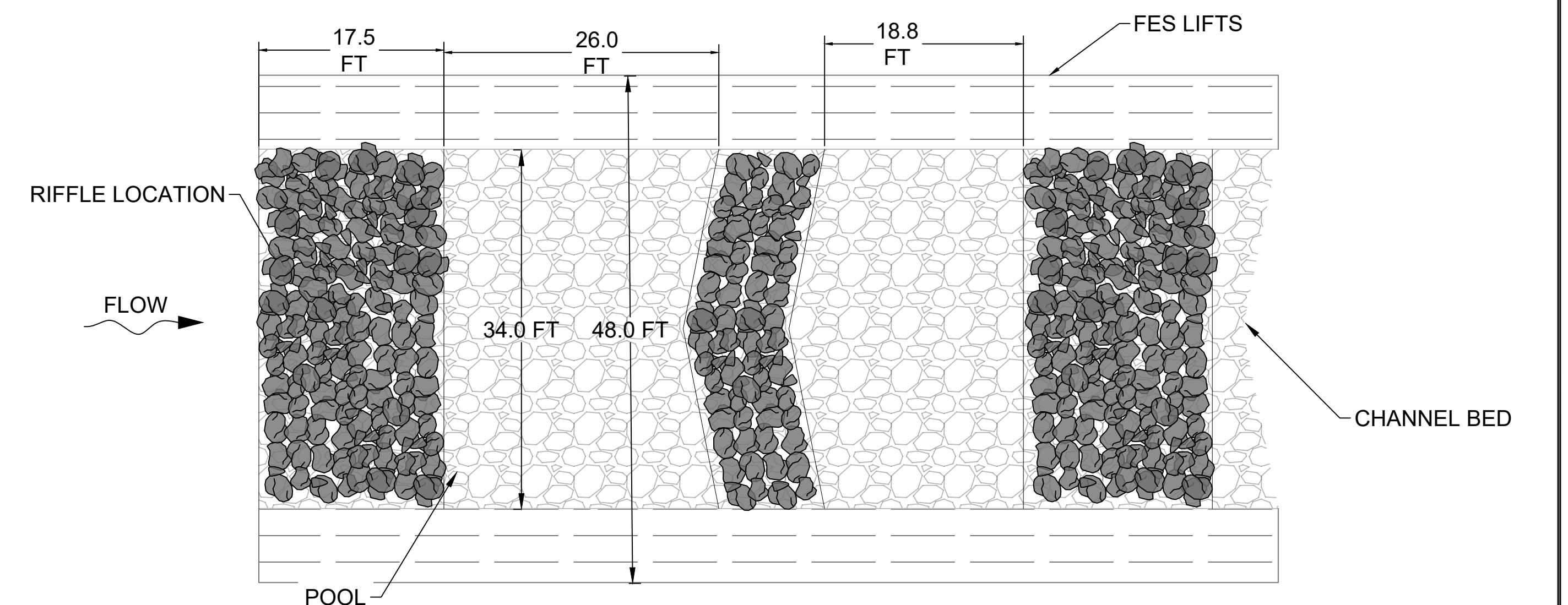
3
11 AVERAGE CHANNEL PROFILE
ELONGATED POOL SEQUENCE



4
11 TYPICAL PLAN
RIFFLE-POOL SEQUENCE



5
11 TYPICAL PLAN
WEIR-POOL SEQUENCE



6
11 TYPICAL PLAN
ELONGATED POOL SEQUENCE

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FARWELL DAM FISH PASSAGE
LISBON, ME

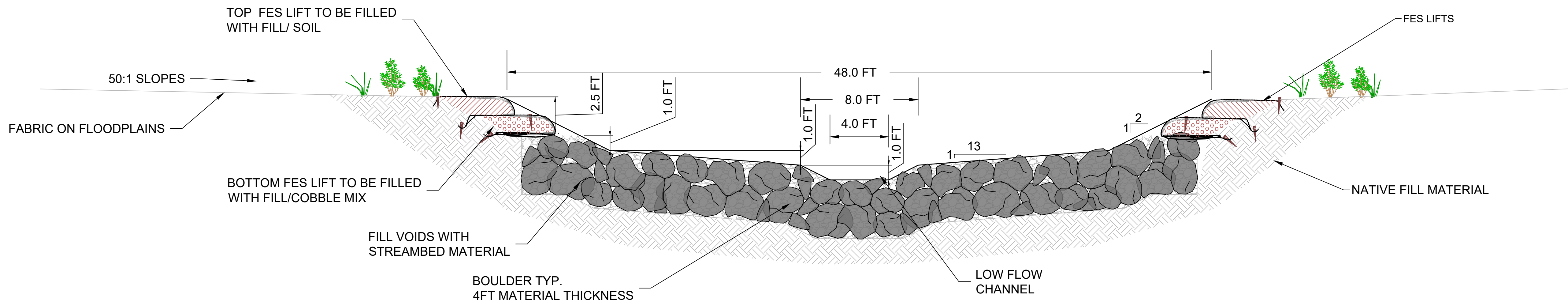


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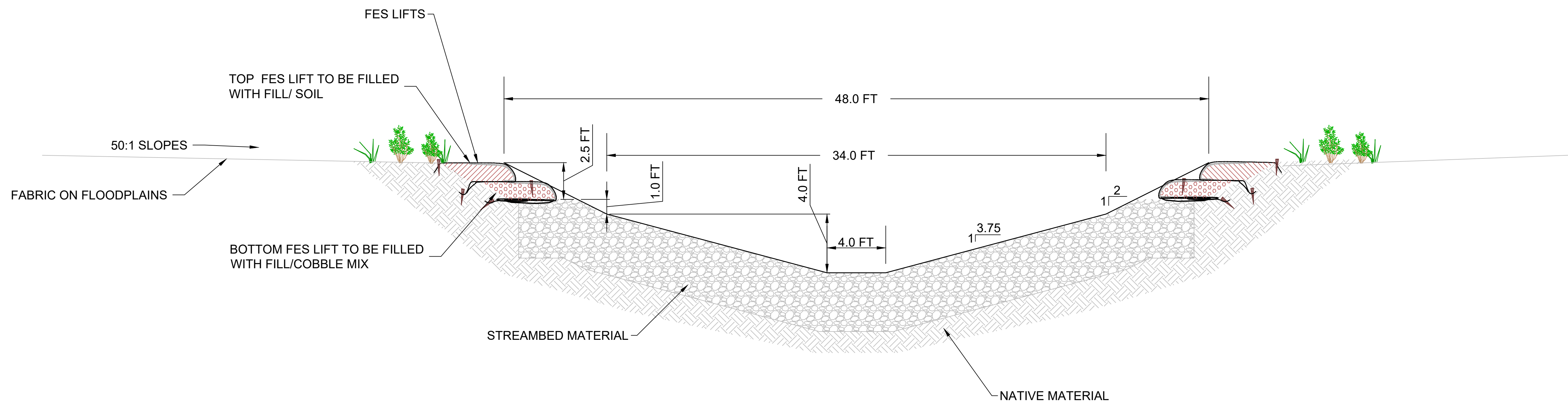
TYPICAL PROFILES & CHANNEL
PLAN DETAILS

SHEET

11 OF 16



1
12 TYPICAL SECTION
WEIR OR RIFFLE CREST



2
12 TYPICAL SECTION
POOL

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NO.	BY	DATE	REVISION DESCRIPTION

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MB APPROVED	9/30/2023 DATE	

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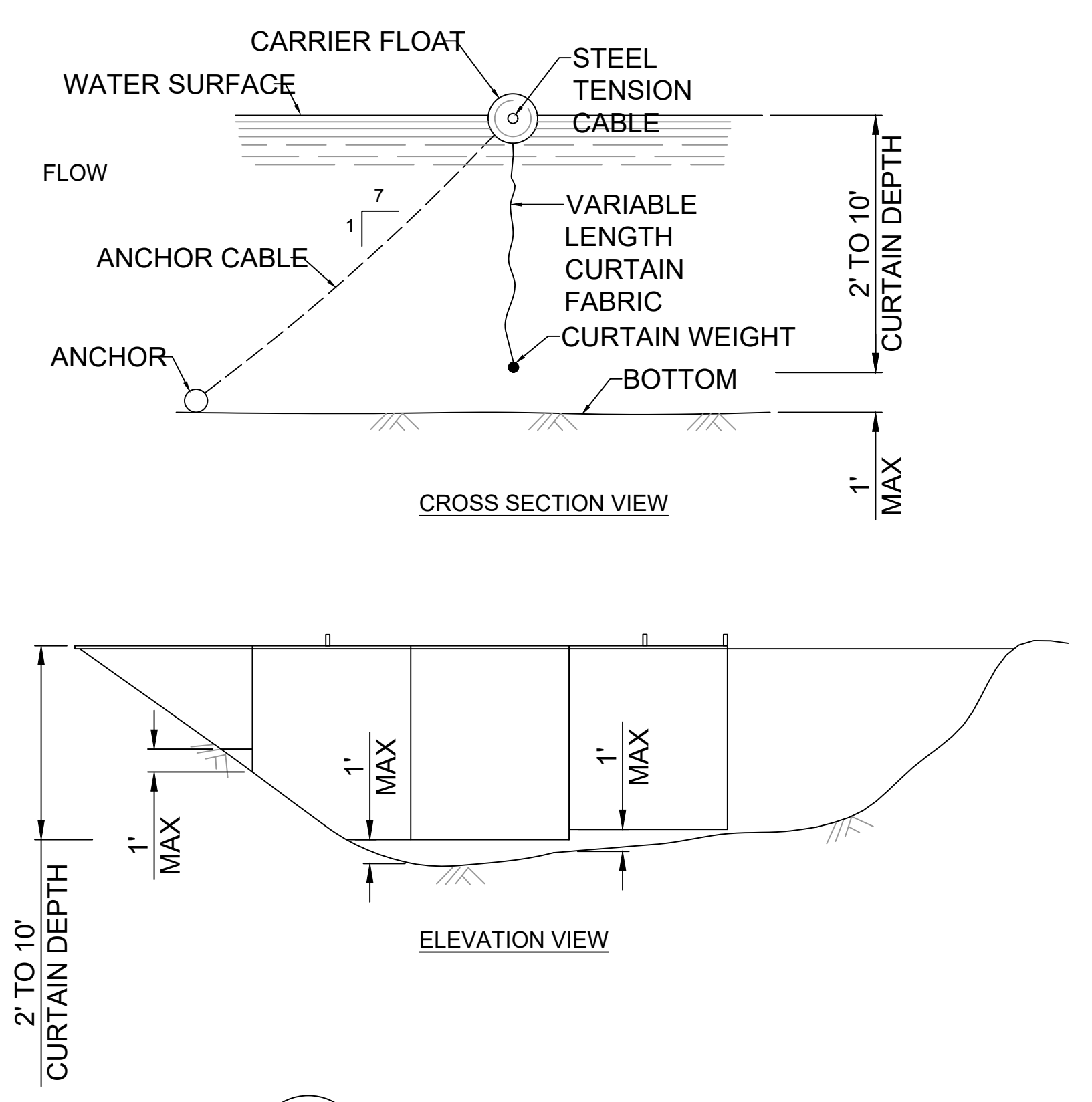


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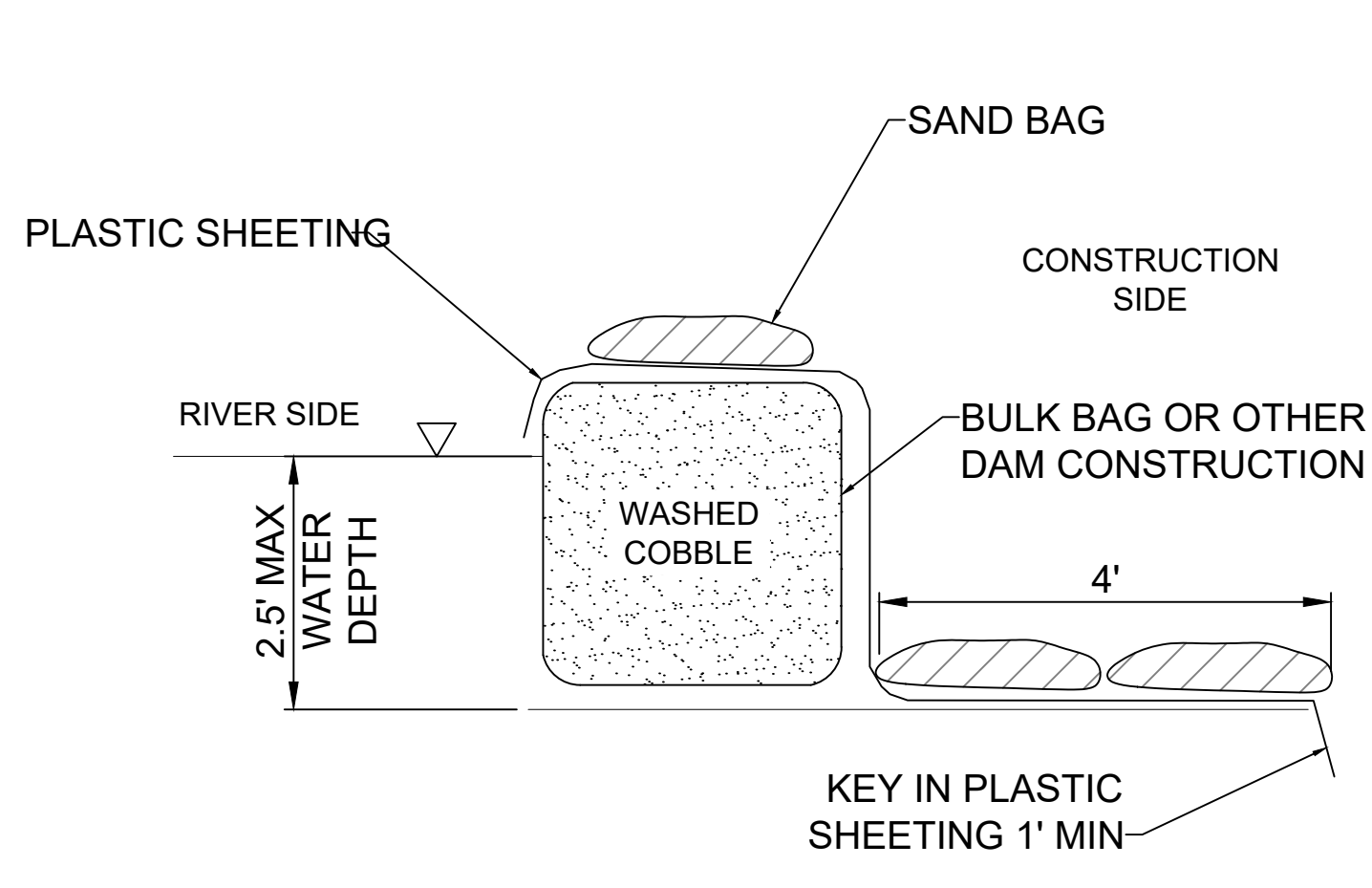
TYPICAL SECTION

SHEET

12 OF 16



1
12 **TYPICAL DETAIL - TURBIDITY CURTAIN**
NOT TO SCALE



2
10 **TYPICAL DETAIL - BULK BAG COFFER DAM**
NOT TO SCALE

BULK BAG COFFERDAM NOTES:

BULK BAG COFFERDAM SHALL BE CONSTRUCTED OF SEVERAL UNITS OF BULK BAGS FILLED WITH NATIVE ALLUVIUM OR CLEAN GRAVEL, AND ABUTTED SIDE BY SIDE TO CREATE A ROW THAT ISOLATES THE CONSTRUCTION SITE. IF NECESSARY, GAPS BETWEEN BULK BAGS MAY BE FILLED WITH STREAM GRAVEL TO IMPROVE COFFERDAM SEAL. BULK BAGS SHALL BE CUBE-SHAPED POLYPROPYLENE WOVEN FABRIC BAGS WITH FULLY OPEN TOP, FLAT BOTTOM, FOUR LOOPS, MINIMUM 2-TON WEIGHT CAPACITY, MINIMUM 5:1 SAFETY FACTOR.

IF WATER DEPTH EXCEEDS 85% OF THE BULK BAG HEIGHT, AN ADDITIONAL TOP ROW OF BULK BAGS SHALL BE INSTALLED, SUPPORTED BY TWO BOTTOM ROWS OF BULK BAGS.

BULK BAG COFFERDAM SHALL BE SEALED BY COVERING THE COFFERDAM WITH PLASTIC SHEETING HELD IN PLACE BY STANDARD SANDBAGS FILLED WITH PEA GRAVEL. THE PLASTIC SHEETING SHALL BE DRAPED ALONG THE CHANNEL BOTTOM WITH OUTWARD EDGE OF SHEETING MINIMUM 4-FEET FROM TOE OF COFFERDAM. PLASTIC SHEETING SHALL BE MINIMUM 6-MIL THICKNESS. ROLL LENGTH SHALL BE LONG ENOUGH TO ENSURE THAT ENTIRE LENGTH OF COFFERDAM WILL BE COVERED WITHOUT A SEAM. MINIMUM 12-FT WIDE ROLL SHALL BE USED FOR SINGLE LAYER BULK BAG COFFERDAM. MINIMUM 16-FT WIDE ROLL SHALL BE USED FOR 2-LAYER STACKED BULK BAG COFFERDAM.

THE TERMINAL ENDS OF THE COFFERDAM, WHERE IT CONNECTS TO CHANNEL BANK OR HIGH GROUND, SHALL BE SEALED WITH PLASTIC SHEETING AND STANDARD SANDBAGS.

REGULARLY OBSERVE COFFERDAM AND WATERWAY FOR TURBIDITY LEAKS. IF LEAKS ARE DETECTED, CEASE CONSTRUCTION ACTIVITY TO REPAIR OR MODIFY COFFERDAM.

COFFERDAM SHALL BE COMPLETELY REMOVED AFTER CONSTRUCTION IS COMPLETED AND WHEN THERE IS NO VISUALLY DETECTABLE DIFFERENCE IN TURBIDITY BETWEEN THE ISOLATED CONSTRUCTION WATER AND BACKGROUND LEVEL IN THE RECEIVING WATER. BULK BAG FILL AND SANDBAG FILL (WASHED PEA GRAVEL) MAY BE DISPOSED OF ON SITE.

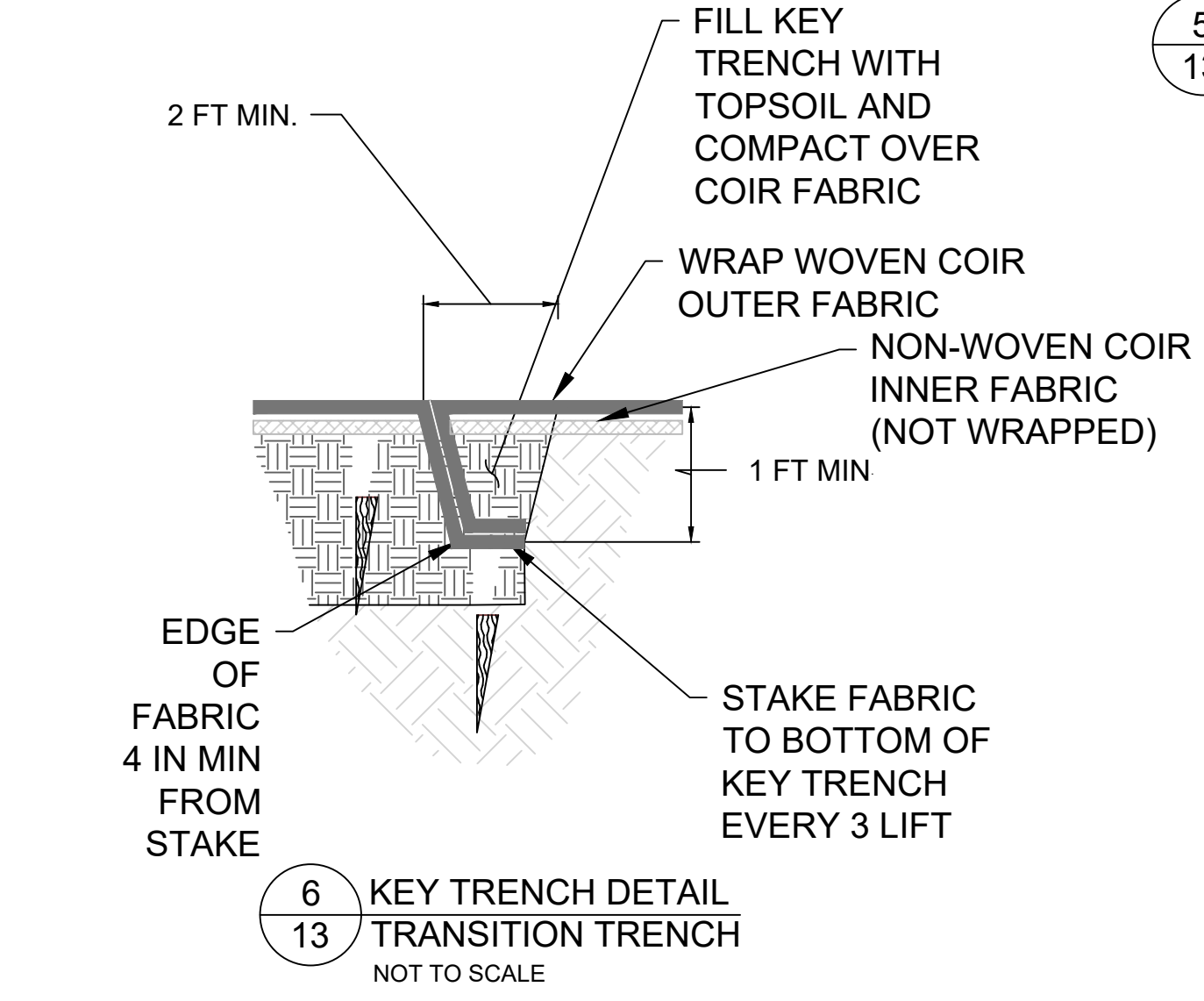
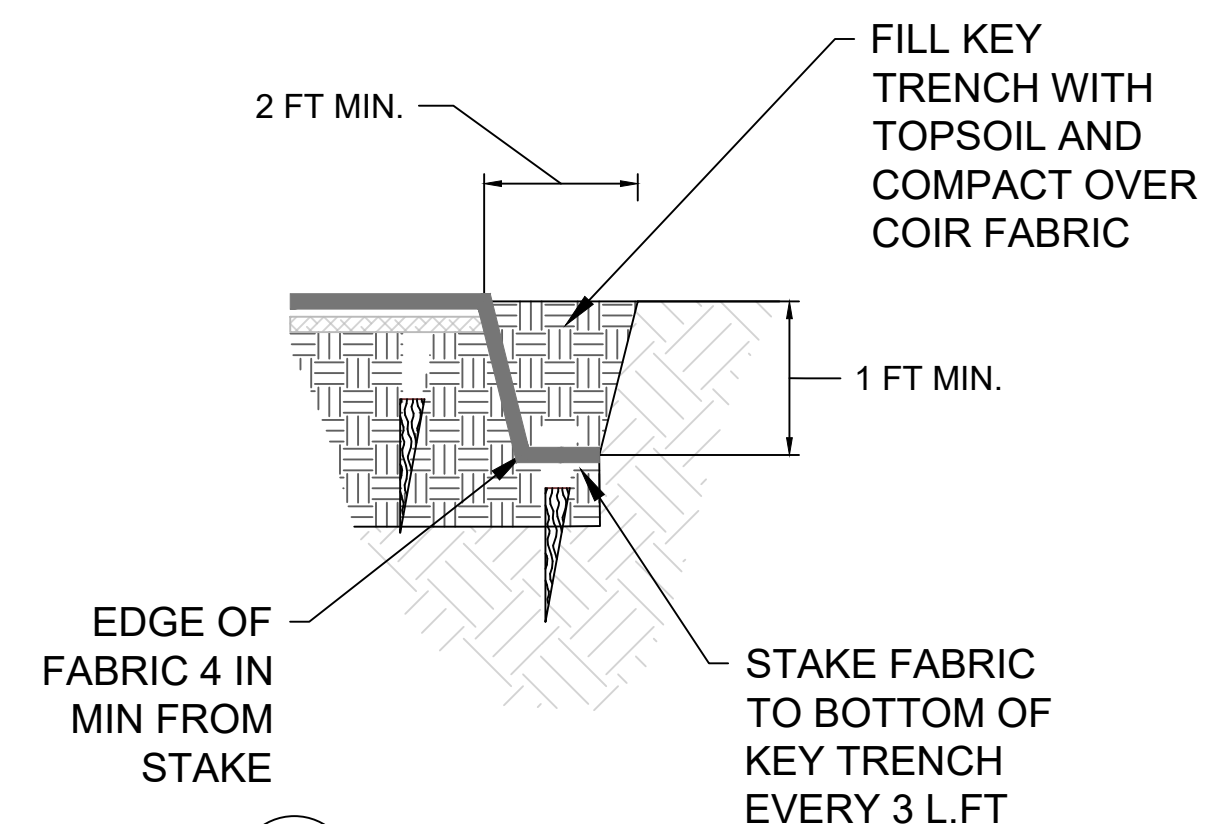
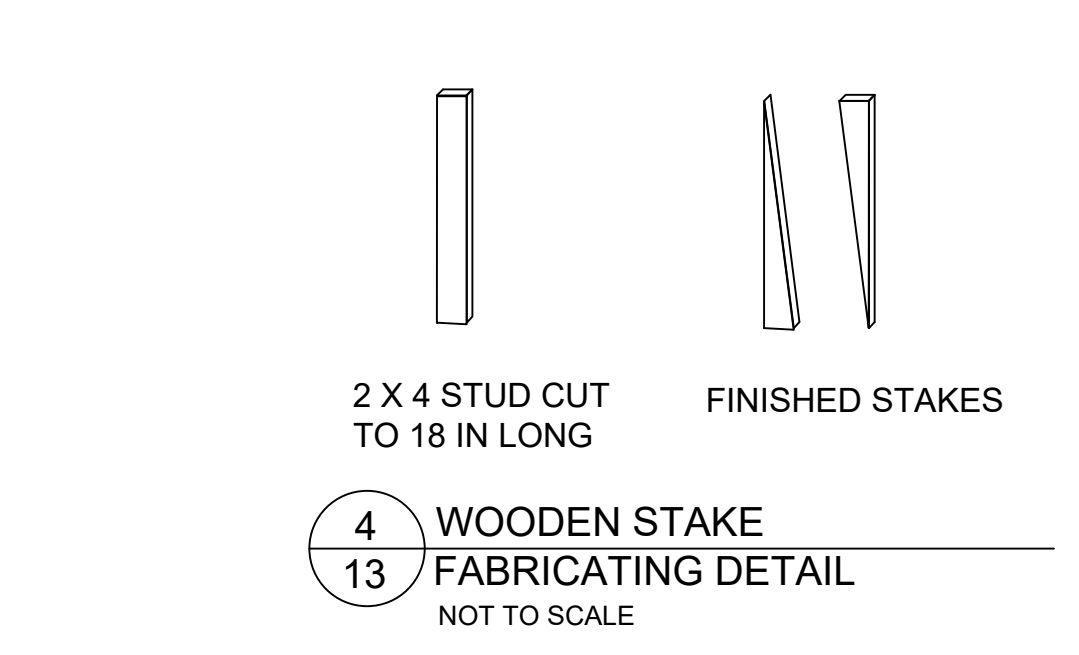
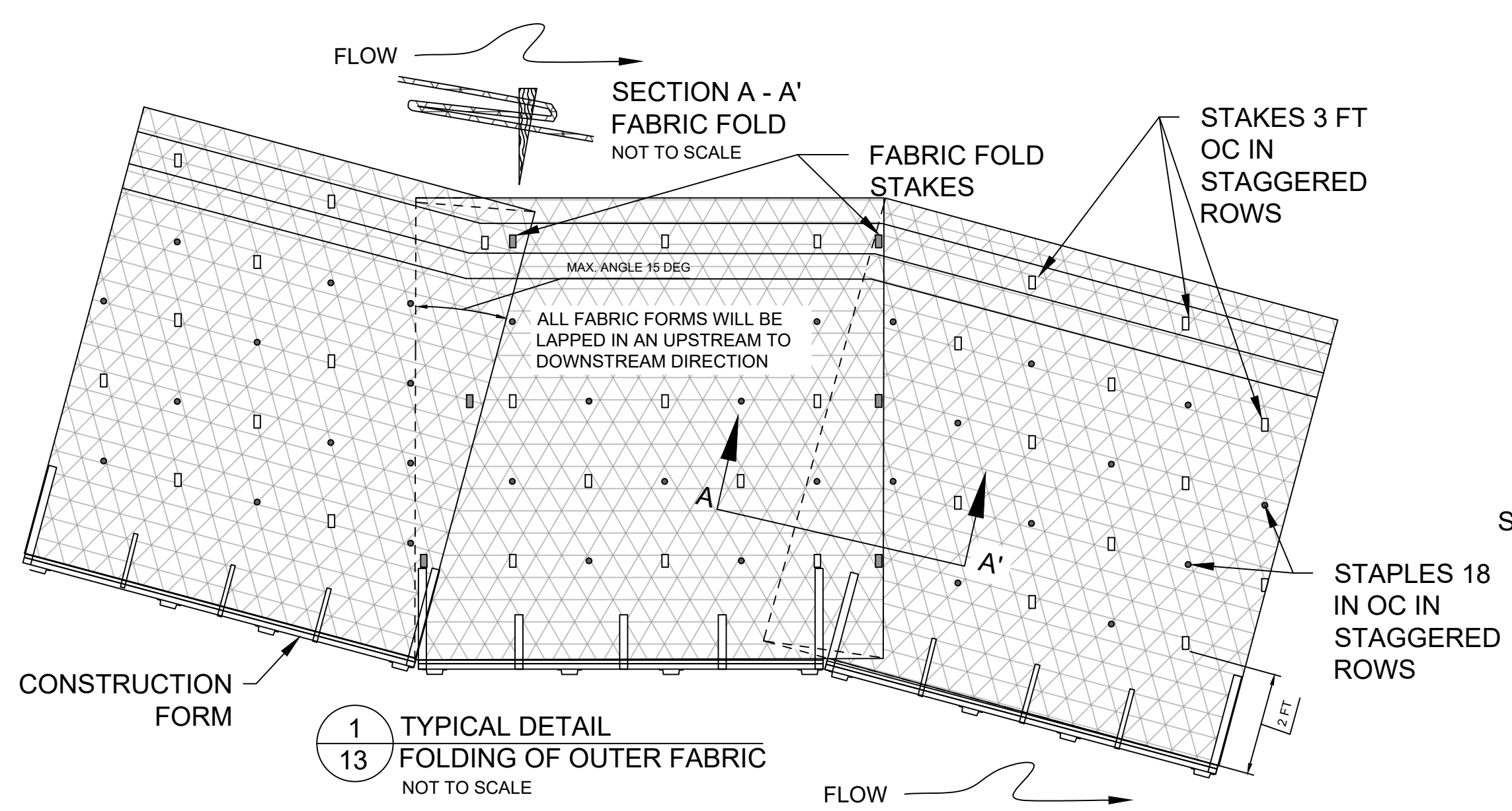
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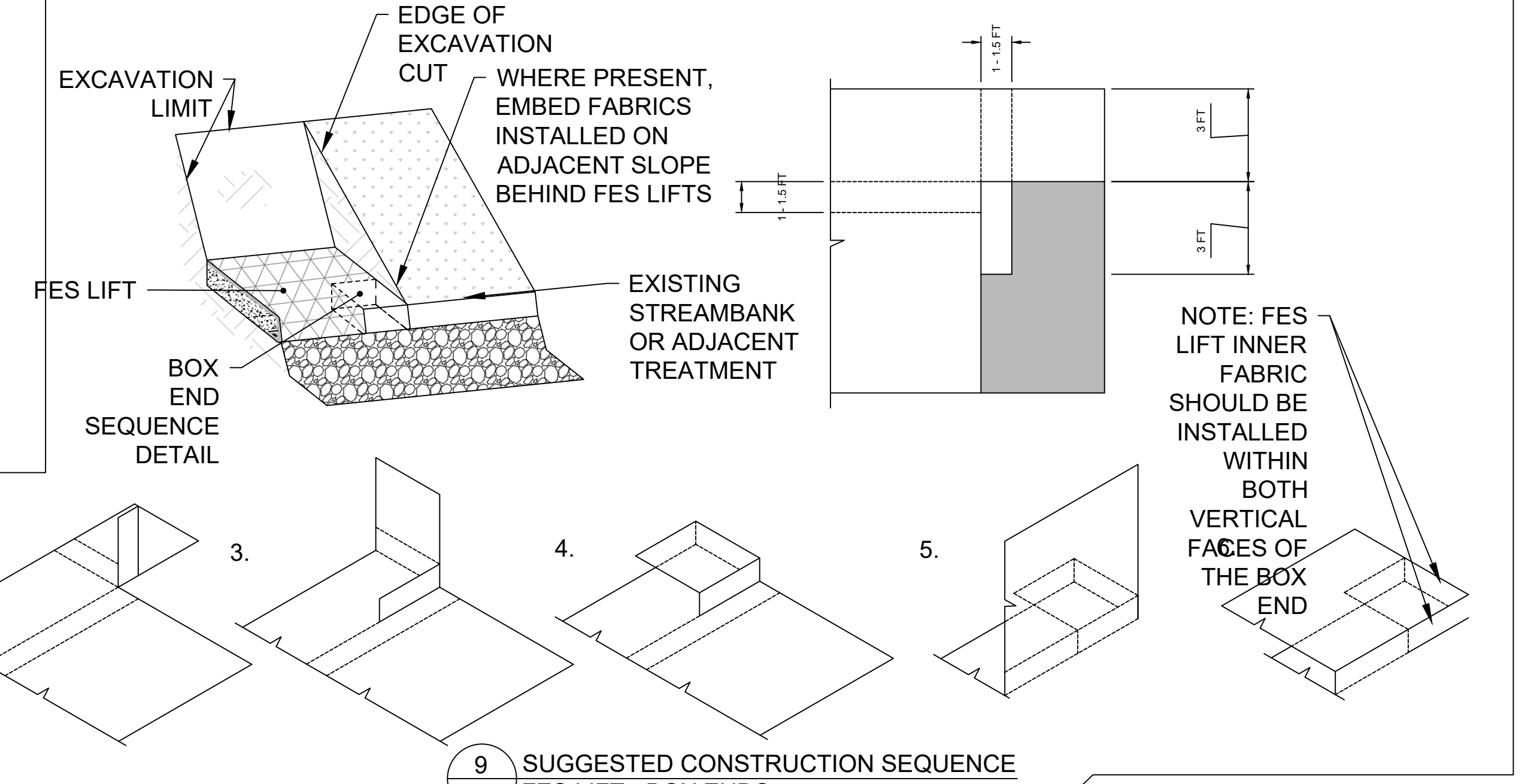
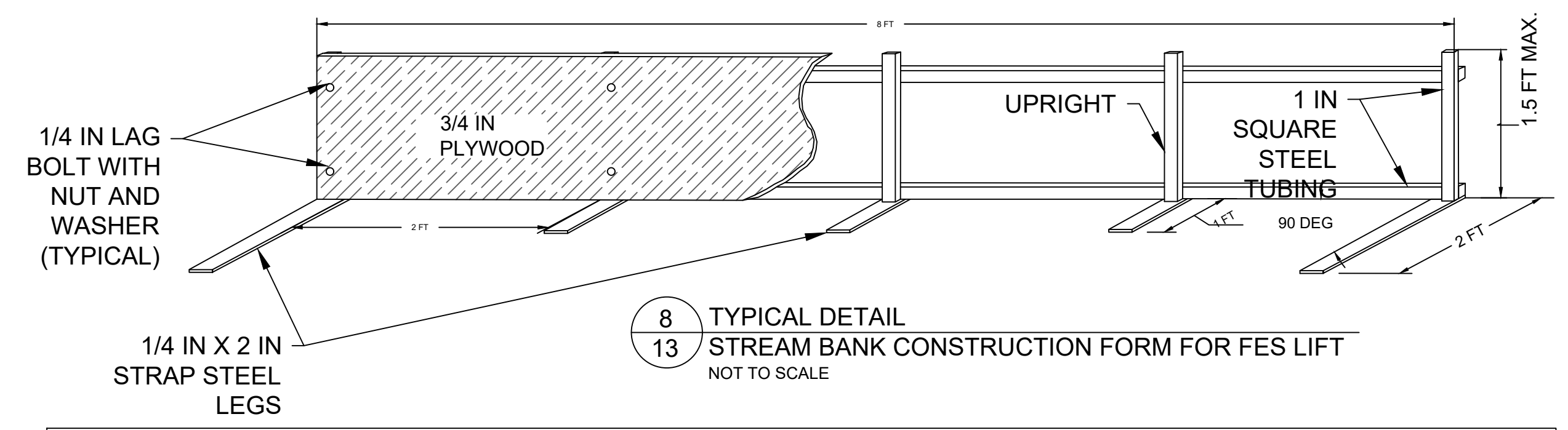
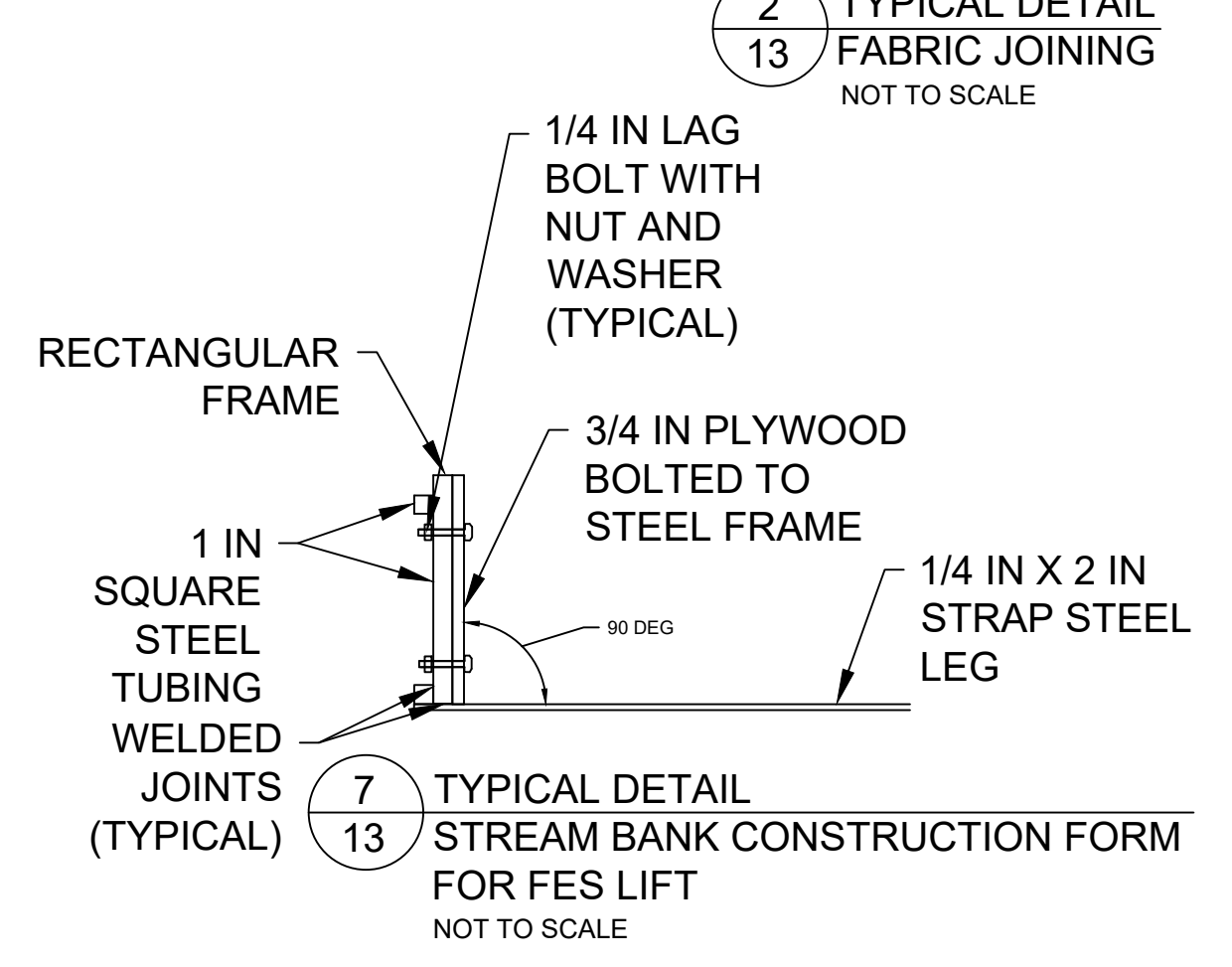
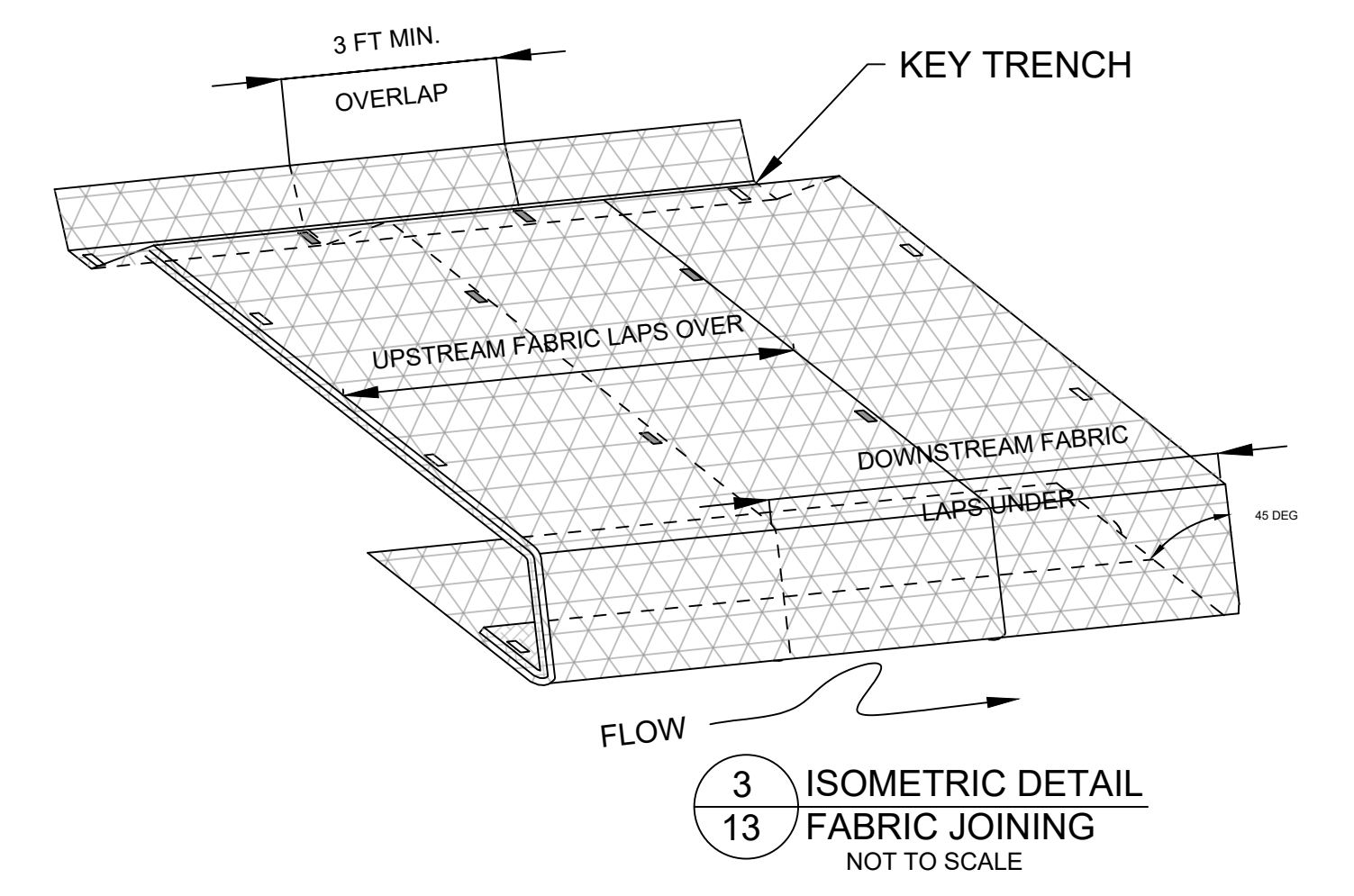
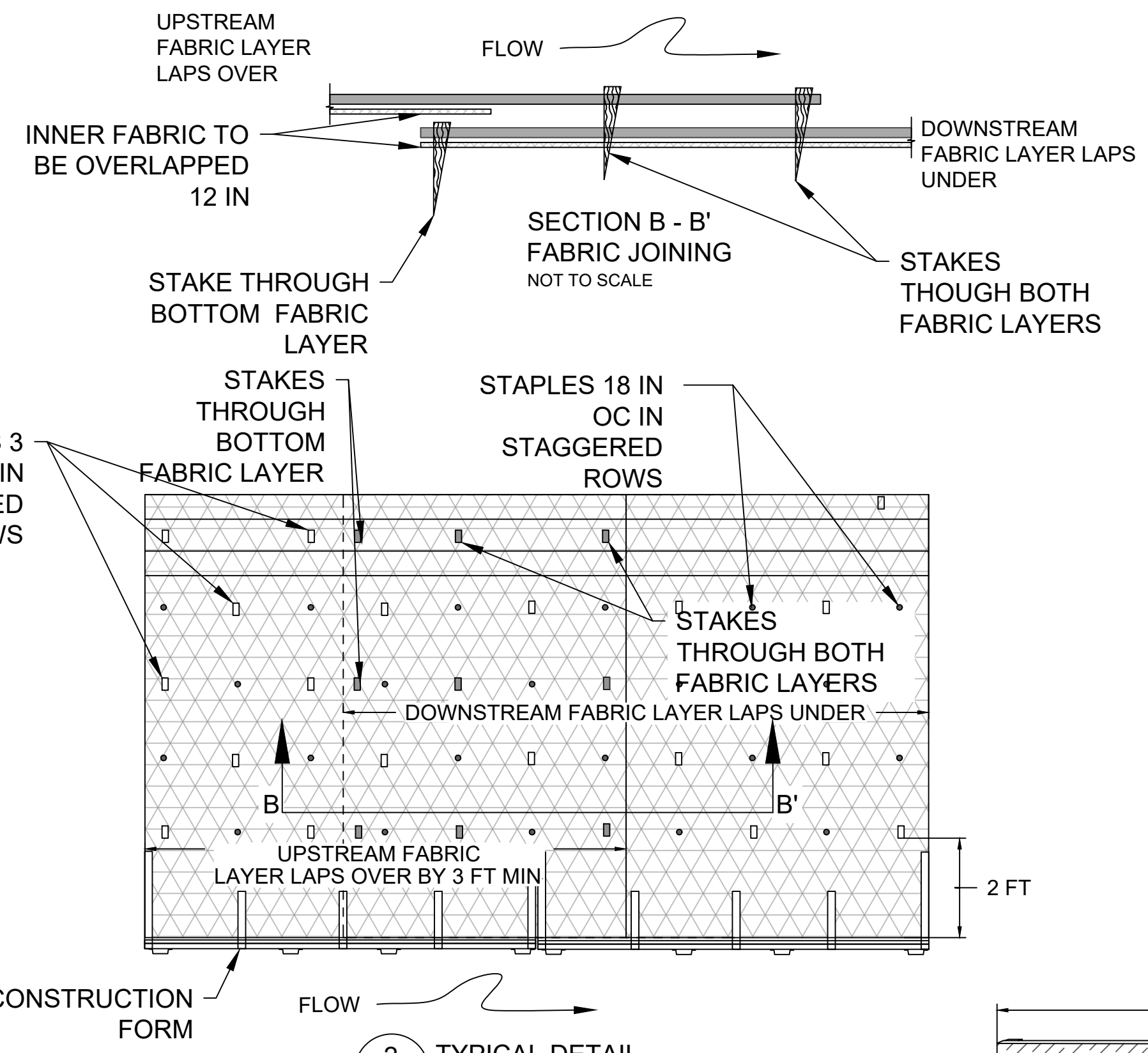
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TYPICAL DETAILS



GENERAL NOTES ON SECURING COIR FABRIC

1. SECURE THE OUTER FABRIC WITH A WOODEN STAKE THROUGH THE FABRIC ON 3 FT CENTERS (SEE DETAIL VIEWS 1 - 3) THE HOLES FOR STAKES SHALL NOT BE PRECUT. ALLOW THE STAKE TO BREAK THE MINIMUM NUMBER OF STRANDS AS IT IS BEING DRIVEN IN. DRIVE STAKES SO THAT 2 IN TO 3 IN OF THE TOP OF THE STAKE IS LEFT EXPOSED.
2. OUTER FABRIC ENDS SHALL BE JOINED BY LAPPING THE UPSTREAM PIECE OF FABRIC OVER THE DOWNSTREAM PIECE AS SHOWN IN DETAILS 1-3. OVERLAPS SHALL BE A MINIMUM OF 3 FT, INNER FABRIC ENDS SHALL BE OVERLAPPED BY 12 IN. OVERLAPS SHALL BE STAGGERED FROM LIFT TO LIFT BY A MINIMUM OF 15 FT.
3. STAKING SPACING IS 3 FT. ON CENTER UNLESS OTHERWISE NOTED.



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FES LIFT DETAILS (1 OF 2)

SUGGESTED SEQUENCE FOR PLACEMENT OF FORMS

PROFILE VIEW LOOKING INTO BANK

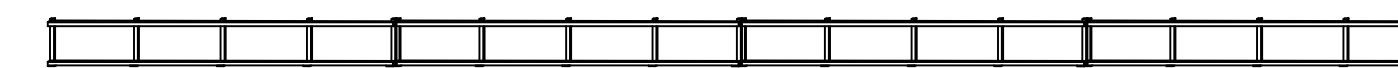


FIG 1. PLACE A ROW OF CONSTRUCTION FORMS ALONG DESIRED CHANNEL ALIGNMENT FOR FIRST FES LIFT.

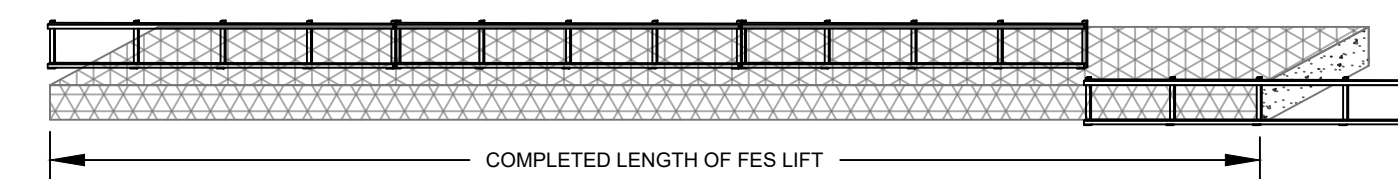


FIG 2. CONSTRUCT FES LIFTS ALONG LENGTH OF FIRST SET OF FORMS AND THEN BEGIN PLACEMENT OF FORMS AND CONSTRUCTION OF SECOND LIFT.

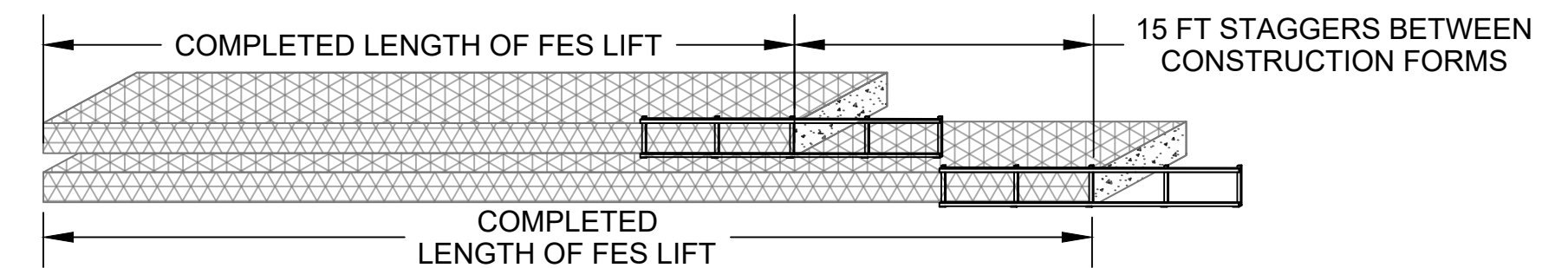
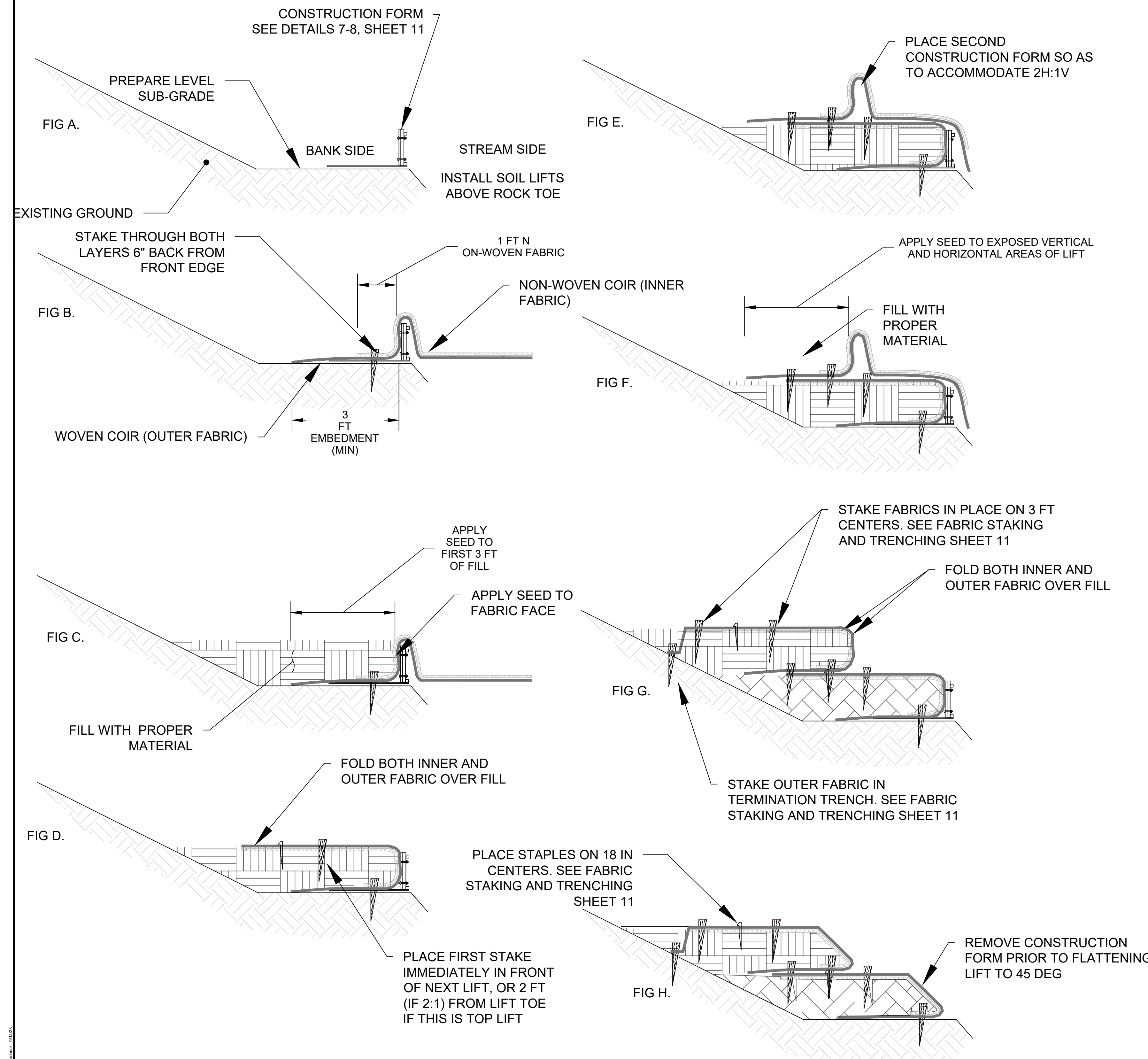


FIG 3. STAGGER FABRIC OVERLAPS A MINIMUM OF 15 FT BETWEEN LIFTS.

GENERAL INSTRUCTIONS FOR FABRIC ENCAPSULATED LIFTS

1. BANKS MAY BE CONSTRUCTED IN EITHER AN UPSTREAM OR DOWNSTREAM DIRECTION, AS LONG AS THE FABRIC IS OVERLAPPED IN THE PROPER DIRECTION.
2. PLACE A SERIES OF THREE OR MORE FORMS ON THE GROUND SO THAT THE FORMS FOLLOW THE PROPOSED STREAM BANK ALIGNMENT. BUTT THE ENDS OF THE FORMS TIGHTLY TOGETHER.
3. UNROLL THE OUTER FABRIC PARALLEL TO THE LONG AXIS OF THE CHANNEL AND POSITION IT SO THAT 3 FT EXTENDS FOR EMBEDMENT ON THE BANK SIDE OF THE FORMS (FIG B), AND A MINIMUM 3 FEET EXTENDS LENGTHWISE BEYOND THE LAST FORM FOR OVERLAP. DRAPE THE REMAINDER OF THE FABRIC OVER THE TOP OF THE FORMS ON THE STREAM SIDE (FIG B).
4. UNROLL THE INNER FABRIC OVER THE TOP OF THE WOVEN COIR FABRIC (FIG B) AND POSITION IT SO THAT AT LEAST 1 FT OF THE INNER FABRIC EXTENDS AS AN EMBEDMENT LENGTH ON THE BANK SIDE OF THE FORMS (FIG C). DRAPE THE REMAINDER OF THE FABRIC OVER THE TOP OF THE FORMS ON THE STREAM SIDE AND ALIGN THE LONG EDGES OF THE FABRICS. STRETCH AND PULL THE FABRIC LAYERS TO REMOVE WRINKLES.
5. APPLY NATIVE SEED MIX TO INNER FABRIC ALONG VERTICAL EDGE OF LIFT (FIG C). PLACE SPECIFIED FILL OVER THE FABRIC ON THE BANK SIDE OF THE FORMS. LEVEL THE FILL AND COMPACT.
6. APPLY NATIVE SEED MIX TO TOP OF FILL FROM THE FRONT OF THE LIFT TO 3 FT BACK FROM FRONT OF THE LIFT (FIG C).
7. FOLD THE LOOSE ENDS OF THE TWO COIR FABRIC LAYERS BACK OVER THE COMPACTED FILL MATERIAL AND STRETCH TIGHTLY TO REMOVE WRINKLES (FIG D). SECURE WITH WOODEN STAKES.
8. REMOVE THE FORMS FROM THE FRONT OF THE COMPLETED LIFTS (FIG 2). LEAVE THE LAST FORM IN PLACE AT THE END OF THE NEWLY CONSTRUCTED LIFT (FIG 2).



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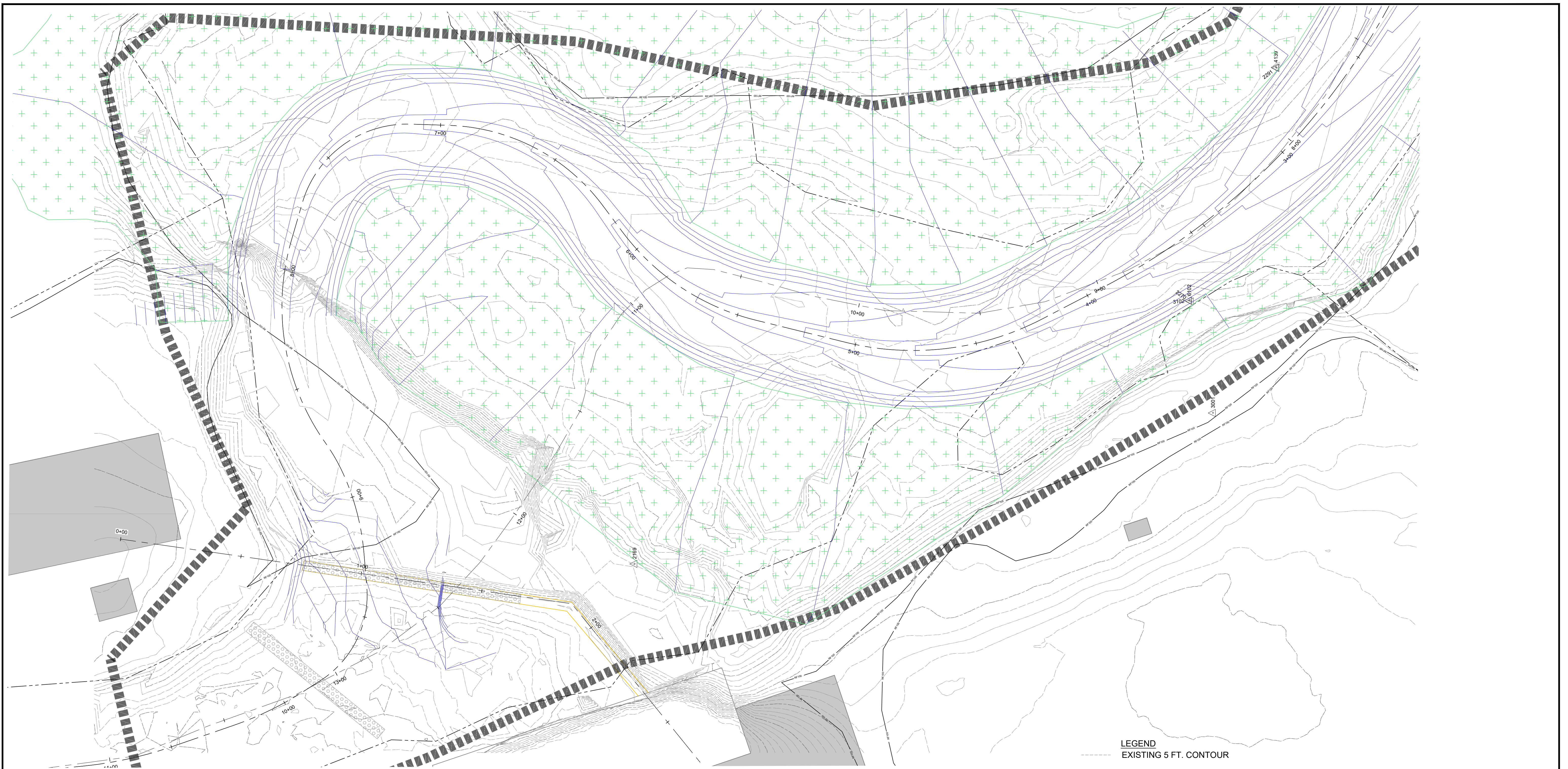
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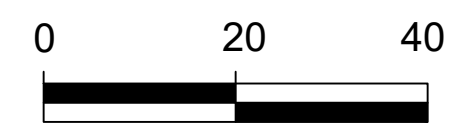
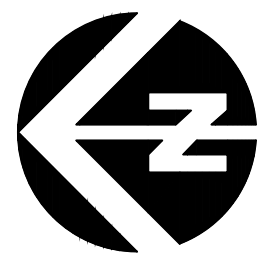


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FES LIFT DETAILS (2 OF 2)



- LEGEND**
- EXISTING 5 FT. CONTOUR
 - EXISTING 1 FT. CONTOUR
 - PROPOSED 1 FT. CONTOUR
 - +++ RIPARIAN PLANTING AREA



SCALE IN FEET
 BAR LENGTHS MEASURE
 1-INCH ON 22 IN. X 34 IN.
 PRINT

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