# MILL CREEK FLOOD RISK MANAGEMENT GENERAL INVESTIGATION

*Draft Feasibility Study and Environmental Assessment Report*

## APPENDIX B, ENGINEERING
## ANNEX B, CONCEPT DRAWINGS

DRAFT

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1 WALL REHABILITATION - STATION 217+00 TO STATION 196+00

SCALE: NTS

B-Annex B-1

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GENERAL INVESTIGATION

WALL REHABILITATION - STA. 217+00 TO STA. 196+00

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B-1

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1 WALL REHABILITATION - STATION 189+00 TO STATION 168+00

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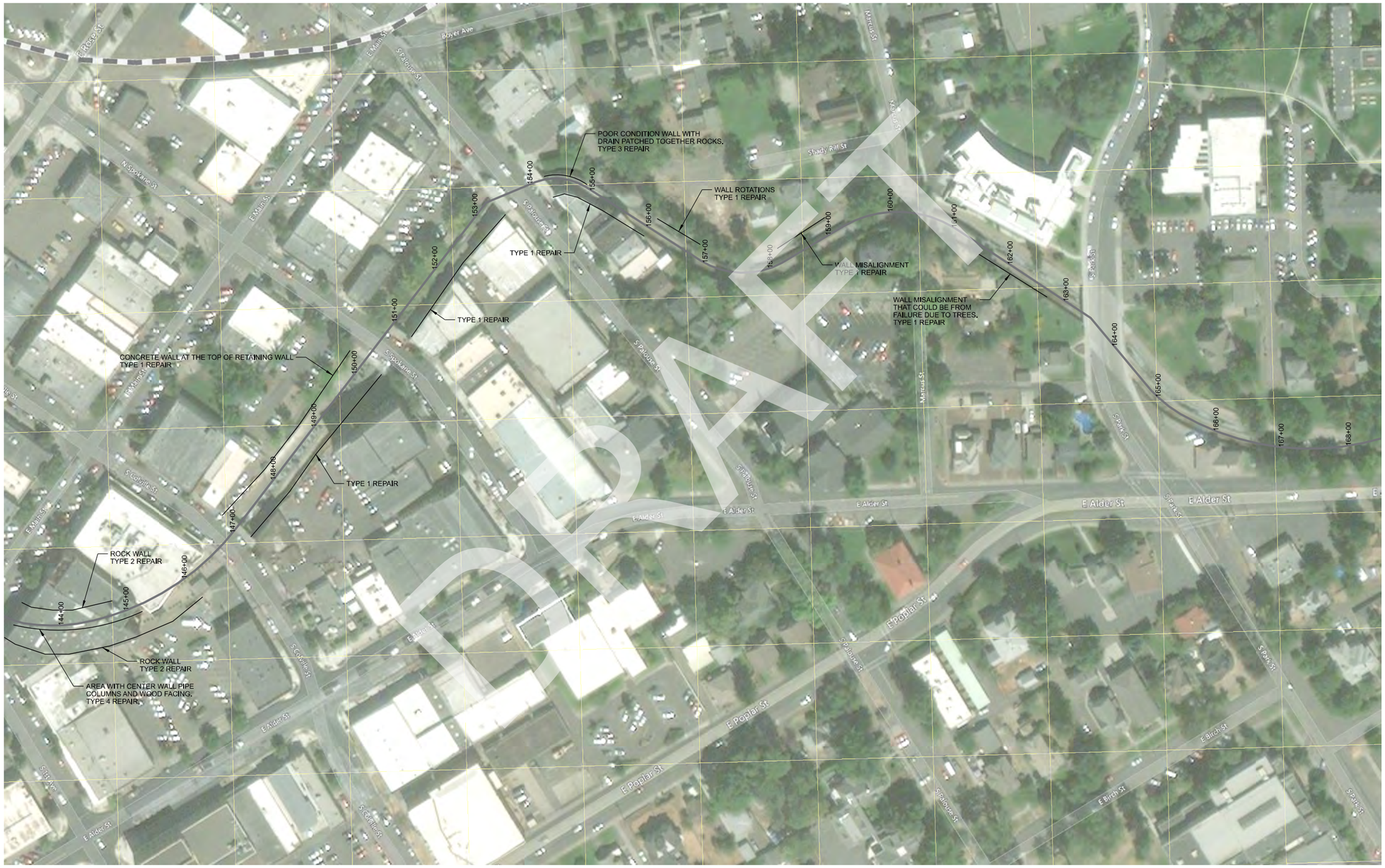


1 WALL REHABILITATION - STATION 168+00 TO STATION 144+00

SCALE: NTS

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WALL REHABILITATION - STA. 168+00 TO STA. 144+00

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1 WALL REHABILITATION - STATION 143+00 TO STATION 117+00

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WALL REHABILITATION - STA. 143+00 TO STA. 117+00

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B-4



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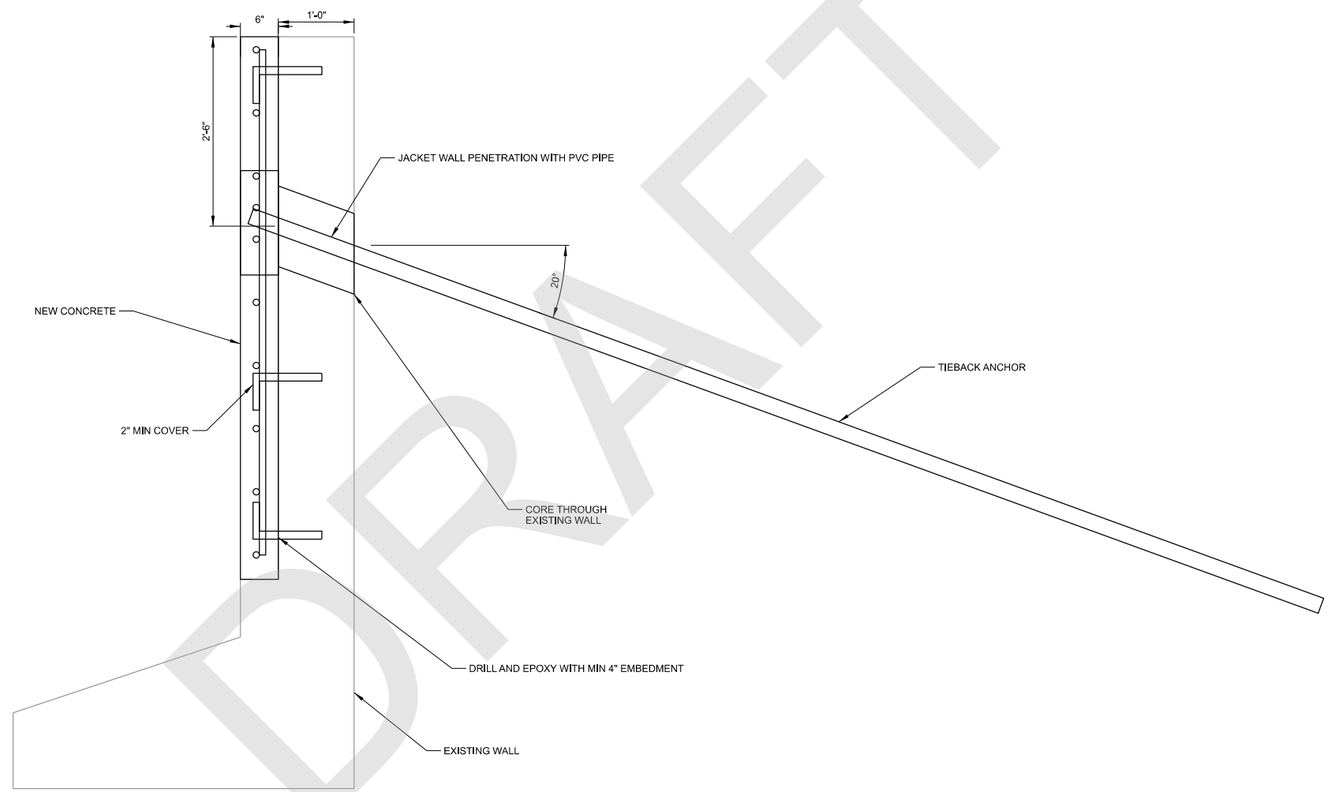


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1 TYPICAL SECTION - TYPE 1 WALL REPAIR

SCALE: NTS

B-Annex B-5

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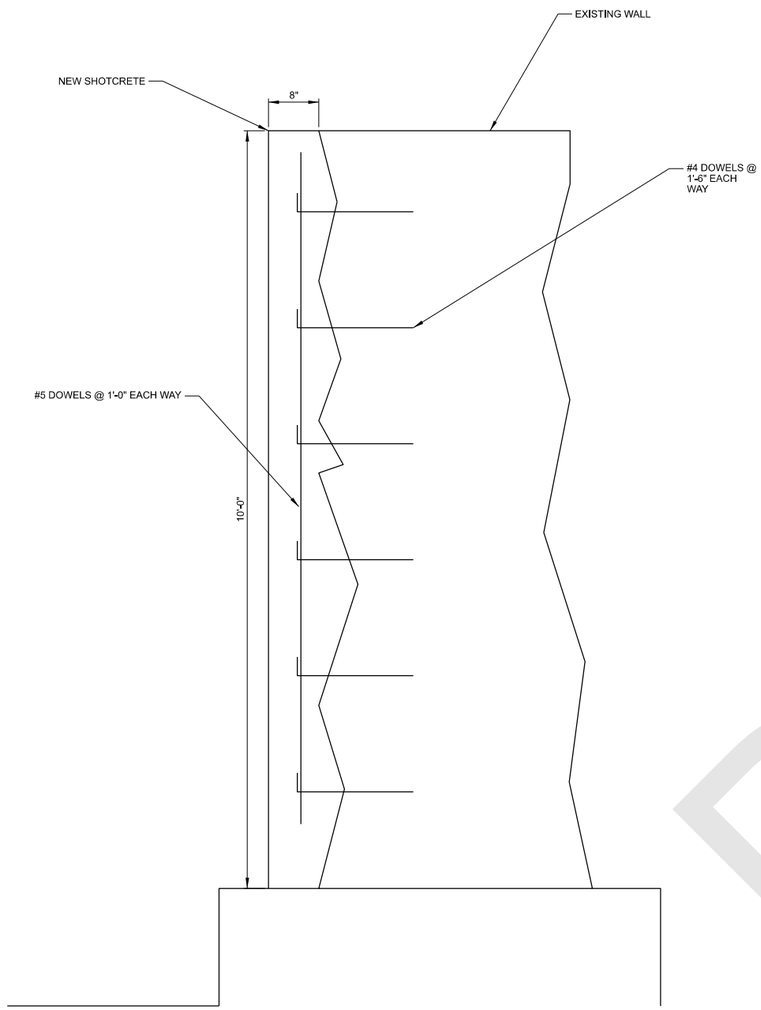
TYPICAL SECTION - TYPE 1 WALL REPAIR

SHEET ID

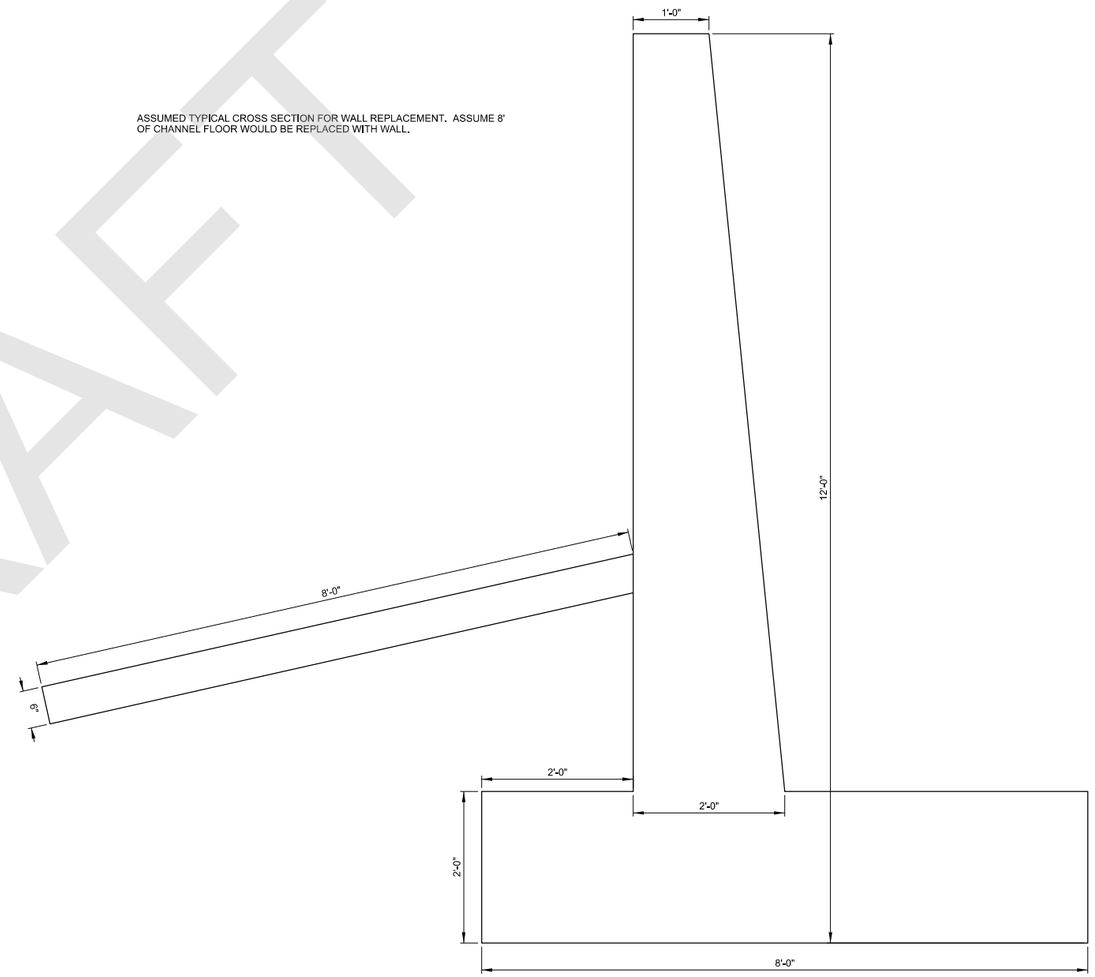
B-5




1 TYPICAL SECTION - TYPE 2 WALL REPAIR

SCALE: NTS

ASSUMED TYPICAL CROSS SECTION FOR WALL REPLACEMENT. ASSUME 8' OF CHANNEL FLOOR WOULD BE REPLACED WITH WALL.




2 TYPICAL SECTION - TYPE 3 WALL REPAIR

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TYPICAL SECTION - TYPES 2 AND 3 WALL REPAIR

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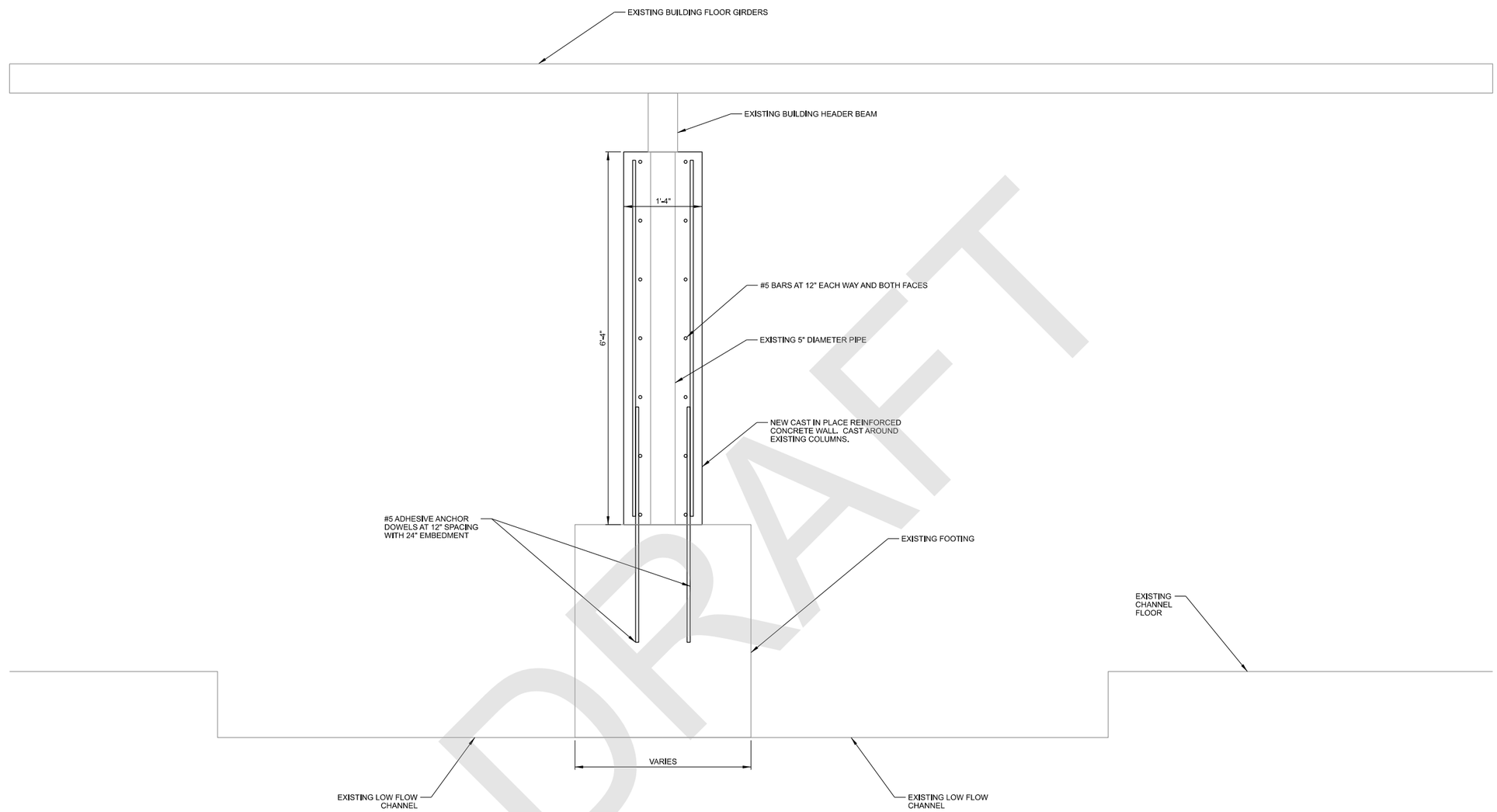


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1 CENTER COLUMN WALL TYPICAL SECTION - TYPE 4 WALL REPAIR

SCALE: NTS

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CENTER COLUMN WALL TYPICAL SECTION - TYPE 4 WALL REPAIR

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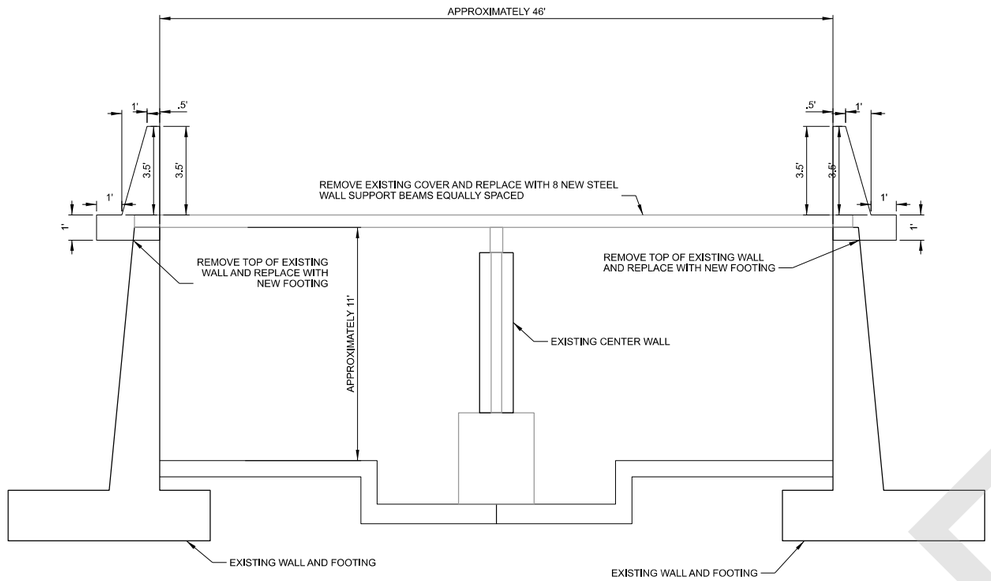
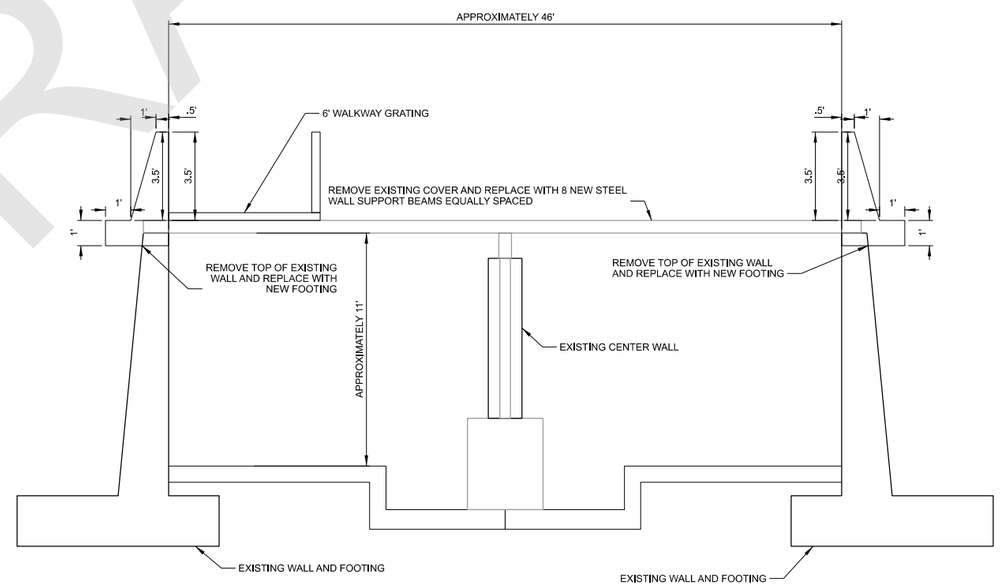



1 CHANNEL COVERED SECTION REPAIR - STA 135+00

SCALE: NTS




2 CHANNEL COVERED SECTION REPAIR - STA 138+00

SCALE: NTS

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CHANNEL COVERED SECTION REPAIRS

SHEET ID

B-8

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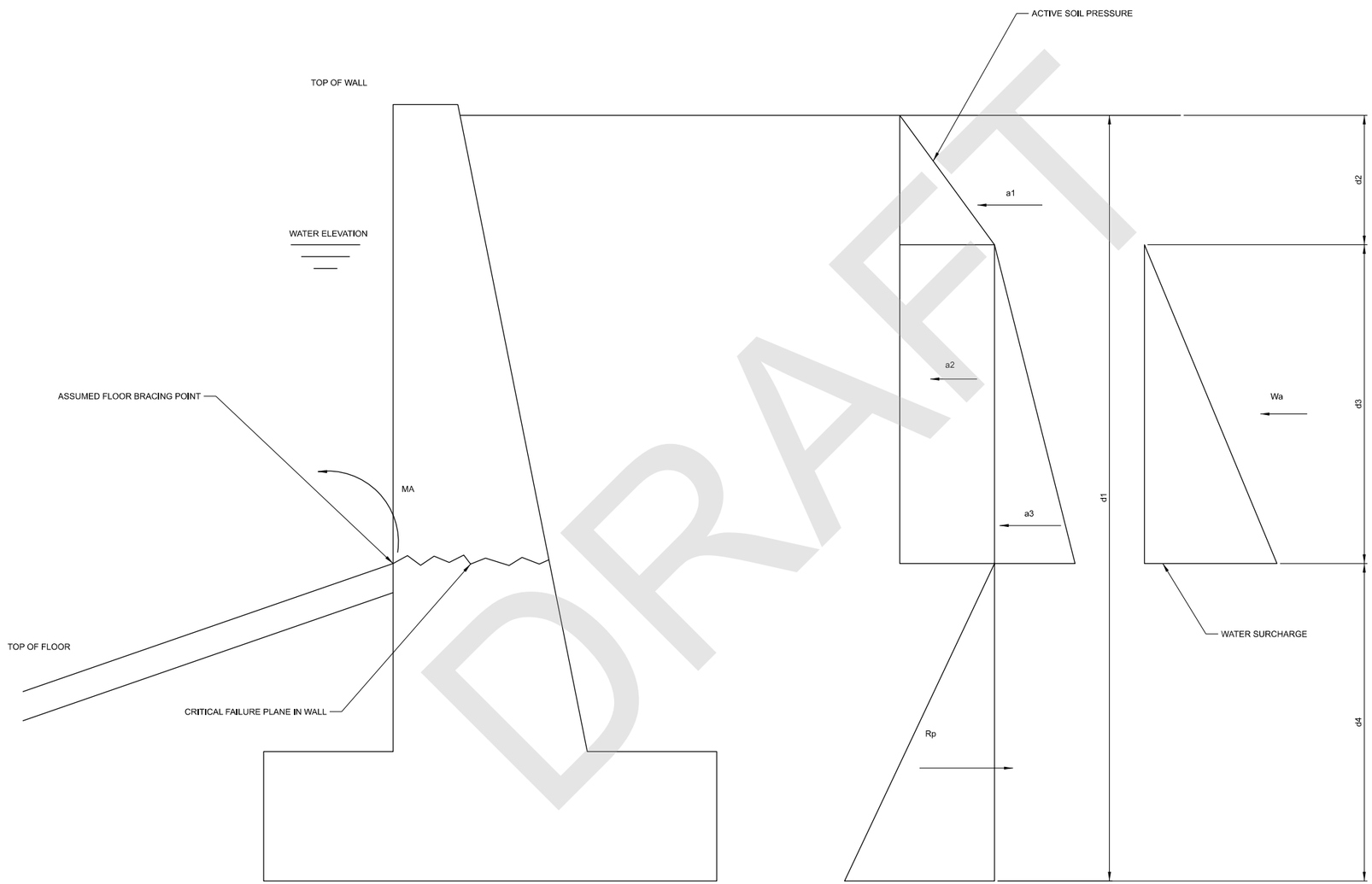


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1 TYPICAL WALL MODEL FOR WALL BENDING CHECK

SCALE: NTS

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TYPICAL WALL MODEL FOR WALL BENDING CHECK

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B-9



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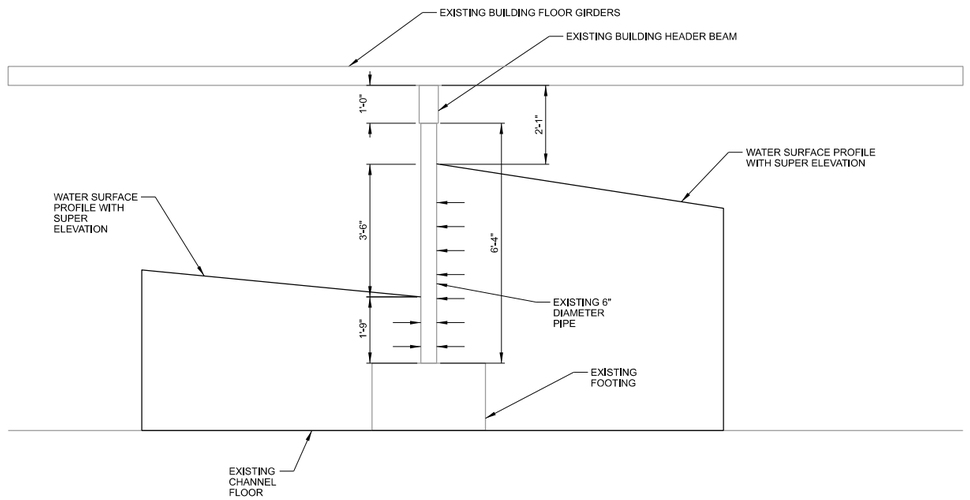
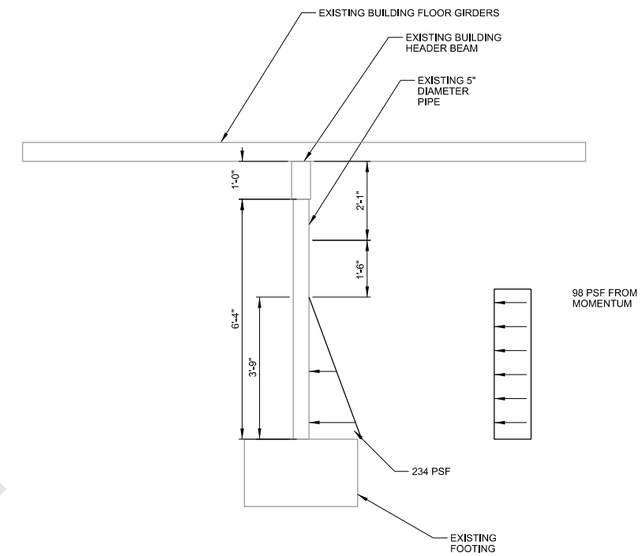
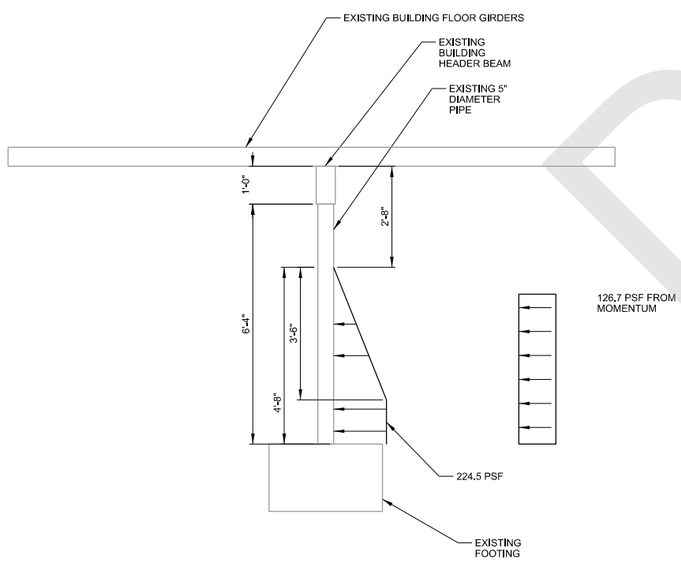


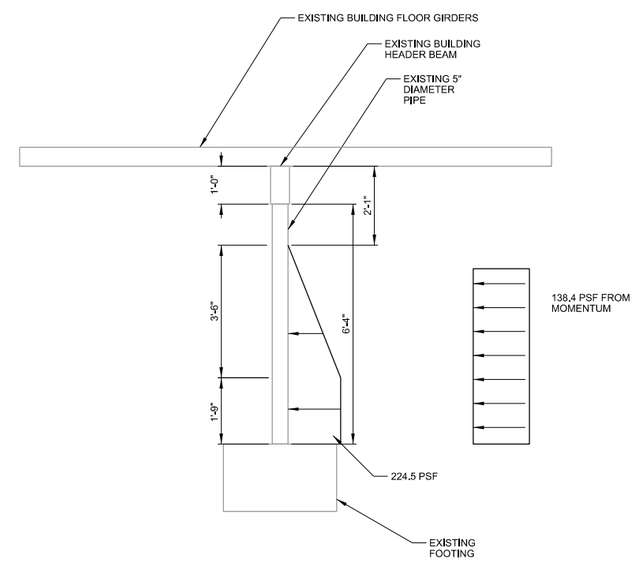

1 CENTER WALL LOADING
SCALE: NTS




2 3000 CFS LOAD CASE
SCALE: NTS




3 4500 CFS LOAD CASE
SCALE: NTS




4 5400 CFS LOAD CASE
SCALE: NTS

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CENTER WALL LOAD CASES

SHEET ID
B-10



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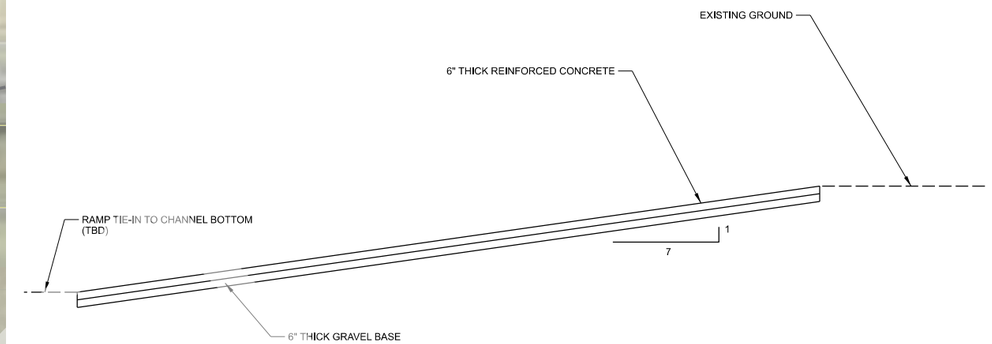
1 RAMP - STATION 107+00

NOT TO SCALE

NOTES:

1. RAMP WIDTH IS 15'.
2. RAMP LENGTH VARIES BY LOCATION.

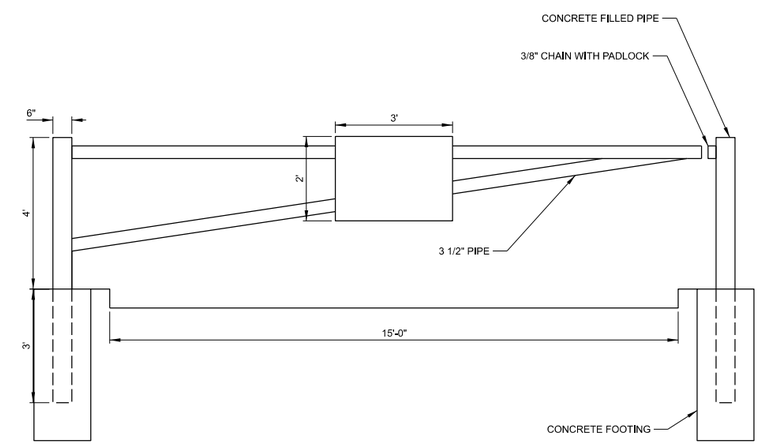



2 GENERALIZED RAMP SECTION

NOT TO SCALE

3 RAMPS - STATION 221+50 AND 220+00

NOT TO SCALE




4 CONCRETE ACCESS RAMP GATE

NOT TO SCALE

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PROPOSED ACCESS RAMP LOCATIONS AND DETAILS

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## GENERAL NOTES

1. CHANNEL CENTERLINE AND STATIONING DATA ARE DIGITIZED.

## LEGEND

368+00 369+00 — DIGITIZED CHANNEL CENTERLINE

POTENTIAL LEVEE RAISE AREA

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POTENTIAL LEVEE RAISE LOCATION - STA. 320+00 TO STA. 303+00

SHEET ID
B-12

PLAN NORTH
GRID N

0 100' 200'

1 POTENTIAL LEVEE RAISE LOCATION - STA. 320+00 TO STA. 303+00
1"=100'



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1. CHANNEL CENTERLINE AND STATIONING DATA ARE DIGITIZED.

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368+00 369+00 — DIGITIZED CHANNEL CENTERLINE

POTENTIAL LEVEE RAISE AREA

PLAN NORTH GRID N

0 100' 200'

## 1 POTENTIAL LEVEE RAISE LOCATION - STA. 303+00 TO STA. 284+00

1"=100'

B-Annex B-13

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POTENTIAL LEVEE RAISE LOCATION - STA. 303+00 TO STA. 284+00

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## GENERAL NOTES

1. CHANNEL CENTERLINE AND STATIONING DATA ARE DIGITIZED.

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368+00 369+00 — DIGITIZED CHANNEL CENTERLINE

POTENTIAL LEVEE RAISE AREA

1 POTENTIAL LEVEE RAISE LOCATION - STA. 107+00 TO STA. 100+00

1"=100'

PLAN NORTH

0 100' 200'

B-Annex B-14

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POTENTIAL LEVEE RAISE LOCATION - STA. 107+00 TO STA. 100+00

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1. CHANNEL CENTERLINE AND STATIONING DATA ARE DIGITIZED.

## LEGEND

368+00 369+00 — DIGITIZED CHANNEL CENTERLINE

POTENTIAL LEVEE RAISE AREA

PLAN NORTH
GRID N

0 100' 200'

## 1 POTENTIAL LEVEE RAISE LOCATION - STA. 99+80 TO STA. 80+00

1"=100'

B-Annex B-15

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POTENTIAL LEVEE RAISE LOCATION - STA. 99+80 TO STA. 80+00

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B-15

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## GENERAL NOTES

1. CHANNEL CENTERLINE AND STATIONING DATA ARE DIGITIZED.

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368+00 369+00 — DIGITIZED CHANNEL CENTERLINE

POTENTIAL LEVEE RAISE AREA

PLAN NORTH GRID N

1 POTENTIAL LEVEE RAISE LOCATION - STA. 80+00 TO STA. 59+00

1"=100'

0 100' 200'

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POTENTIAL LEVEE RAISE LOCATION - STA. 80+00 TO STA. 59+00

SHEET ID
B-16



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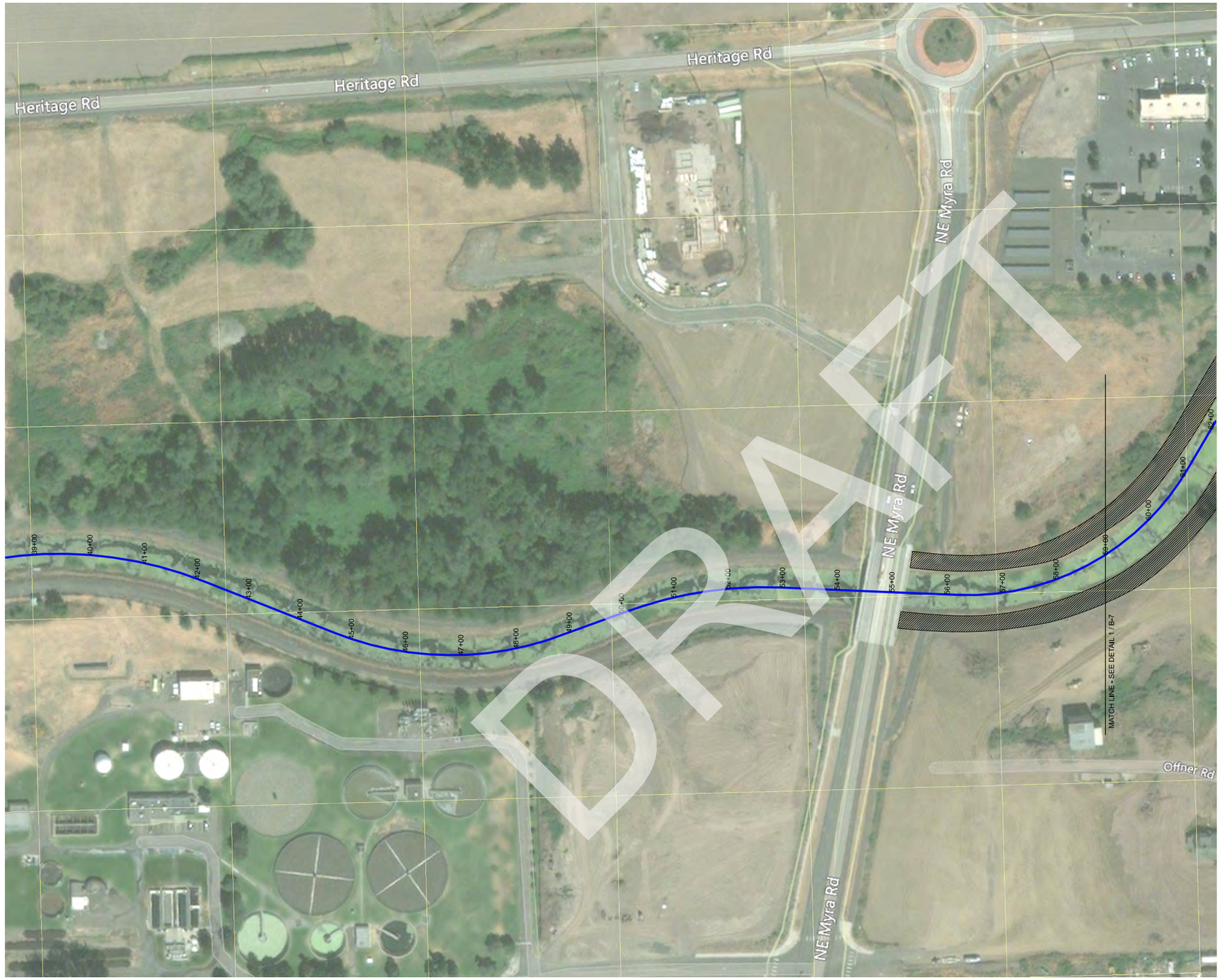


## GENERAL NOTES

1. CHANNEL CENTERLINE AND STATIONING DATA ARE DIGITIZED.

## LEGEND

368+00 369+00 — DIGITIZED CHANNEL CENTERLINE

POTENTIAL LEVEE RAISE AREA

PLAN NORTH
GRID N

0 100' 200'

1 POTENTIAL LEVEE RAISE LOCATION - STA. 59+00 TO STA. 55+50

1"=100'

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POTENTIAL LEVEE RAISE LOCATION - STA. 59+00 TO STA. 55+50

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