MILL CREEK FLOOD RISK MANAGEMENT GENERAL INVESTIGATION

Draft Feasibility Study and Environmental Assessment Report

APPENDIX B, ENGINEERING
ANNEX A, REFERENCE DRAWINGS – PART 1

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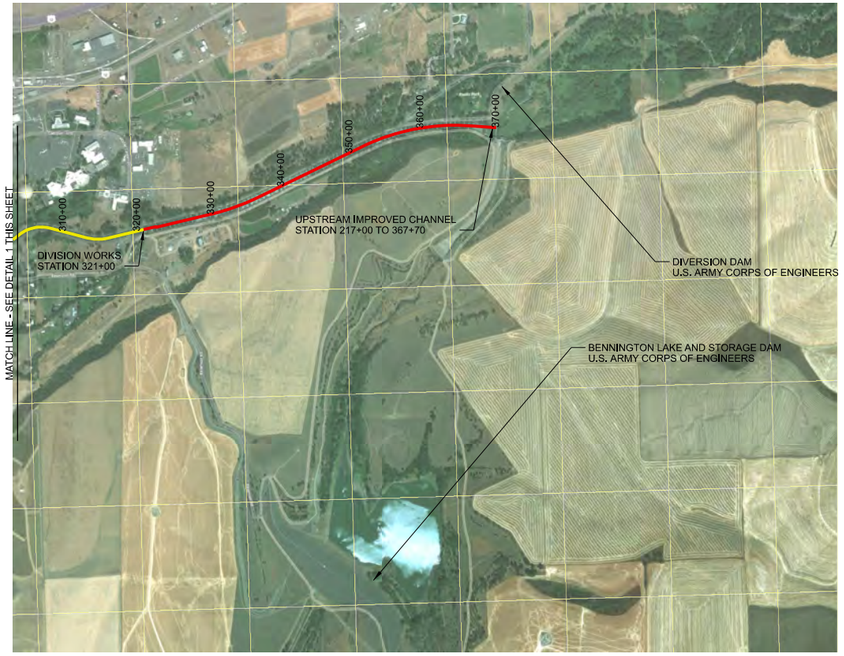
GENERAL NOTES

1. STATION LOCATIONS OF FEATURES ARE APPROXIMATE.
2. STATIONS AND ALIGNMENT ARE BASED OFF NATIONAL LEVEE DATABASE DATA. ALIGNMENT AND STATIONING ARE APPROXIMATE.
3. AERIAL IMAGERY SOURCE IS BING MAPS.



2 MILL CREEK ALIGNMENT AND GENERAL FEATURES

1"=1000'

0 1000' 2000'

1 MILL CREEK ALIGNMENT AND GENERAL FEATURES

1"=1000'

0 1000' 2000'

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WALLA WALLA, WASHINGTON

MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
GENERAL INVESTIGATION

MILL CREEK CHANNEL
STATIONING AND FEATURES
OVERVIEW

SHEET ID

A-1

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GENERAL NOTES

1. CHANNEL CENTERLINE AND STATIONING DATA ARE DIGITIZED.

LEGEND

368+00 — 369+00 DIGITIZED CHANNEL CENTERLINE

PLAN NORTH GRID N

1 MILL CREEK STATION 370+12 TO 360+00

1"=100'

0 100' 200'

B-Annex A-2

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MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
GENERAL INVESTIGATION

MILL CREEK CHANNEL
STATIONING AND FEATURES
STATION 370+12 TO 360+00

SHEET ID

A-2

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GENERAL NOTES

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368+00 — 369+00 DIGITIZED CHANNEL CENTERLINE

PLAN NORTH GRID N

1 MILL CREEK STATION 360+00 TO 342+00

1"=100'

0 100' 200'

B-Annex A-3

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MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
GENERAL INVESTIGATION

MILL CREEK CHANNEL
STATIONING AND FEATURES
STATION 360+00 TO 342+00

SHEET ID

A-3

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GENERAL NOTES

1. CHANNEL CENTERLINE AND STATIONING DATA ARE DIGITIZED.

LEGEND

338+00 — 339+00 DIGITIZED CHANNEL CENTERLINE

PLAN NORTH

1 MILL CREEK STATION 342+00 TO 322+00

1"=100'

0 100' 200'

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WALLA WALLA, WASHINGTON
GENERAL INVESTIGATION

MILL CREEK CHANNEL
STATIONING AND FEATURES
STATION 342+00 TO 322+00

SHEET ID

A-4

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GENERAL NOTES

1. CHANNEL CENTERLINE AND STATIONING DATA ARE DIGITIZED.

LEGEND

DIGITIZED CHANNEL CENTERLINE

PLAN NORTH
GRID N

0 100' 200'

1 MILL CREEK STATION 322+00 TO 303+00
1"=100'

B-Annex A-5

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MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
GENERAL INVESTIGATION

MILL CREEK CHANNEL
STATIONING AND FEATURES
STATION 322+00 TO 303+00

SHEET ID
A-5

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GENERAL NOTES

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288+00 — 289+00 DIGITIZED CHANNEL CENTERLINE

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MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
GENERAL INVESTIGATION

MILL CREEK CHANNEL
STATIONING AND FEATURES
STATION 303+00 TO 284+00

SHEET ID
A-6

PLAN NORTH
GRID N

1 MILL CREEK STATION 303+00 TO 284+00
1"=100'

0 100' 200'

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GENERAL NOTES

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268+00 — 269+00 DIGITIZED CHANNEL CENTERLINE

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WALLA WALLA, WASHINGTON

MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
GENERAL INVESTIGATION

MILL CREEK CHANNEL
STATIONING AND FEATURES
STATION 284+00 TO 263+00

SHEET ID

A-7

PLAN NORTH GRID N

1 MILL CREEK STATION 284+00 TO 263+00

1"=100'

0 100' 200'

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GENERAL NOTES

1. CHANNEL CENTERLINE AND STATIONING DATA ARE DIGITIZED.

LEGEND

268+00 — 269+00 DIGITIZED CHANNEL CENTERLINE

PLAN NORTH GRID N

1 MILL CREEK STATION 263+00 TO 244+00

1"=100'

0 100' 200'

B-Annex A-8

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WALLA WALLA, WASHINGTON

MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
GENERAL INVESTIGATION

MILL CREEK CHANNEL
STATIONING AND FEATURES
STATION 263+00 TO 244+00

SHEET ID

A-8

DATE AND TIME PLOTTED: 12/12/2019

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GENERAL NOTES

1. CHANNEL CENTERLINE AND STATIONING DATA ARE DIGITIZED.

LEGEND

DIGITIZED CHANNEL CENTERLINE

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PLAN NORTH GRID N

0 100' 200'

1 MILL CREEK STATION 244+00 TO 222+00

1"=100'

B-Annex A-9

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WALLA WALLA, WASHINGTON
GENERAL INVESTIGATION

MILL CREEK CHANNEL
STATIONING AND FEATURES
STATION 244+00 TO 222+00

SHEET ID

A-9

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GENERAL NOTES

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368+00 — 369+00 DIGITIZED CHANNEL CENTERLINE

PLAN NORTH GRID N

0 100' 200'

1 MILL CREEK STATION 222+00 TO 203+00

1"=100'

B-Annex A-10

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MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
GENERAL INVESTIGATION

MILL CREEK CHANNEL
STATIONING AND FEATURES
STATION 222+00 TO 203+00

SHEET ID

A-10

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GENERAL NOTES

1. CHANNEL CENTERLINE AND STATIONING DATA ARE DIGITIZED.

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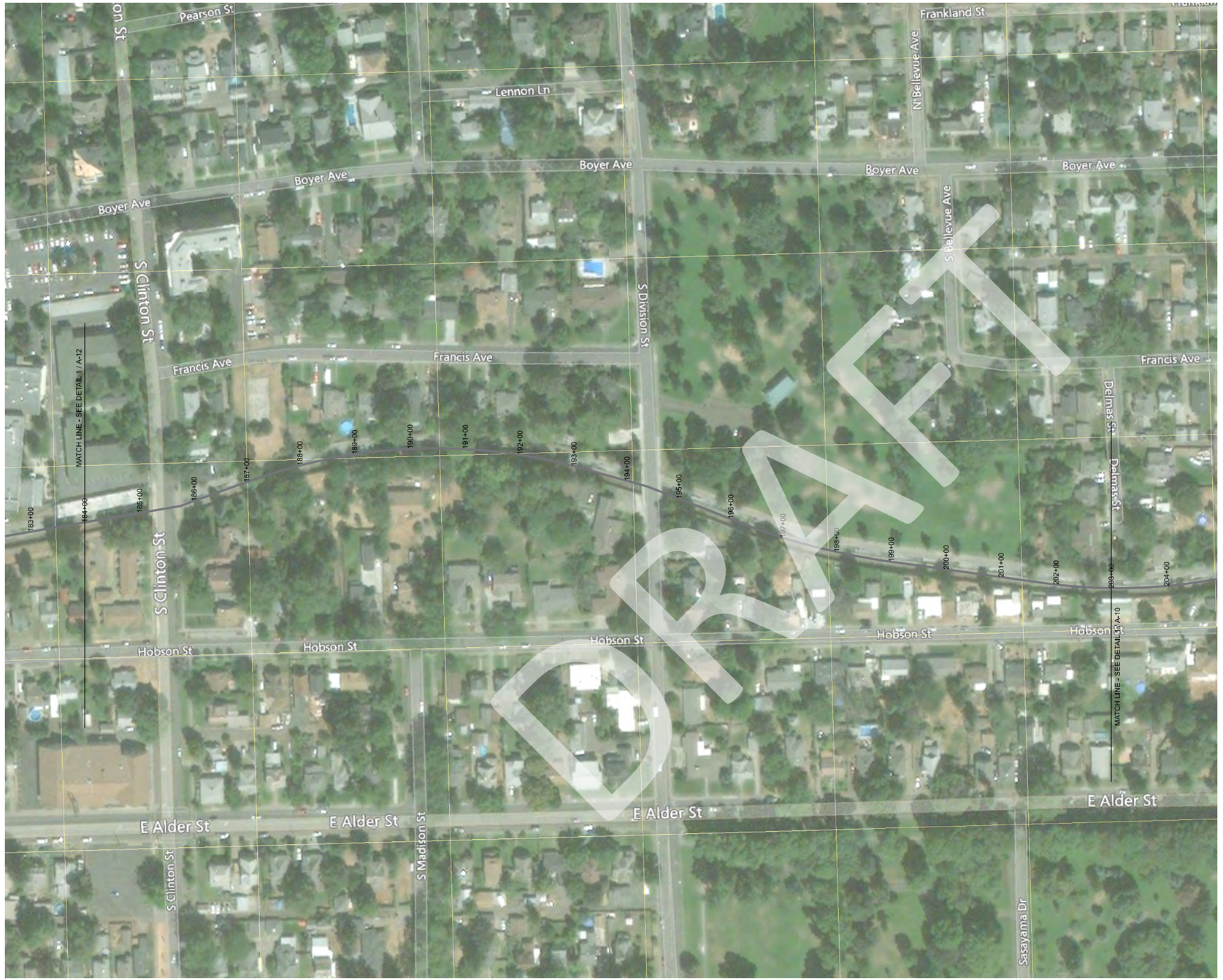
188+00 — 189+00 DIGITIZED CHANNEL CENTERLINE



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PLAN NORTH GRID N

0 100' 200'

1 MILL CREEK STATION 203+00 TO 184+00

1"=100'

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MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
GENERAL INVESTIGATION

MILL CREEK CHANNEL
STATIONING AND FEATURES
STATION 203+00 TO 184+00

SHEET ID

A-11

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GENERAL NOTES

1. CHANNEL CENTERLINE AND STATIONING DATA ARE DIGITIZED.

LEGEND

368+00 — 369+00 DIGITIZED CHANNEL CENTERLINE

PLAN NORTH

1 MILL CREEK STATION 184+00 TO 163+00

1"=100'

0 100' 200'

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MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
GENERAL INVESTIGATION

MILL CREEK CHANNEL
STATIONING AND FEATURES
STATION 184+00 TO 163+00

SHEET ID

A-12

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GENERAL NOTES

1. CHANNEL CENTERLINE AND STATIONING DATA ARE DIGITIZED.

LEGEND

138+00 — 139+00 DIGITIZED CHANNEL CENTERLINE

PLAN NORTH GRID N

1 MILL CREEK STATION 163+00 TO 140+00

1"=100'

0 100' 200'

B-Annex A-13

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WALLA WALLA, WASHINGTON
GENERAL INVESTIGATION

MILL CREEK CHANNEL
STATIONING AND FEATURES
STATION 163+00 TO 140+00

SHEET ID
A-13

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GENERAL NOTES

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LEGEND

DIGITIZED CHANNEL CENTERLINE

PLAN NORTH
GRID N

1 MILL CREEK STATION 140+00 TO 119+00

1"=100'

0 100' 200'

B-Annex A-14

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GENERAL INVESTIGATION

MILL CREEK CHANNEL
STATIONING AND FEATURES
STATION 140+00 TO 119+00

SHEET ID

A-14

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GENERAL NOTES

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LEGEND

368+00 — 369+00 DIGITIZED CHANNEL CENTERLINE

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PLAN NORTH (GRID N)

1 MILL CREEK STATION 119+00 TO 100+00

1"=100'

0 100' 200'

B-Annex A-15

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WALLA WALLA, WASHINGTON
GENERAL INVESTIGATION

MILL CREEK CHANNEL
STATIONING AND FEATURES
STATION 119+00 TO 100+00

SHEET ID

A-15

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GENERAL NOTES

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368+00 369+00 DIGITIZED CHANNEL CENTERLINE

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WALLA WALLA, WASHINGTON

MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
GENERAL INVESTIGATION

MILL CREEK CHANNEL
STATIONING AND FEATURES
STATION 100+00 TO 80+00

PLAN NORTH
GRID N

SHEET ID
A-16

1 MILL CREEK STATION 100+00 TO 80+00
1"=100'

0 100' 200'

B-Annex A-16

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GENERAL NOTES

1. CHANNEL CENTERLINE AND STATIONING DATA ARE DIGITIZED.

LEGEND

368+00 — 369+00 DIGITIZED CHANNEL CENTERLINE

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PLAN NORTH (GRID N)

0 100' 200'

1 MILL CREEK STATION 80+00 TO 59+00
1"=100'

B-Annex A-17

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MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
GENERAL INVESTIGATION

MILL CREEK CHANNEL
STATIONING AND FEATURES
STATION 80+00 TO 59+00

SHEET ID
A-17

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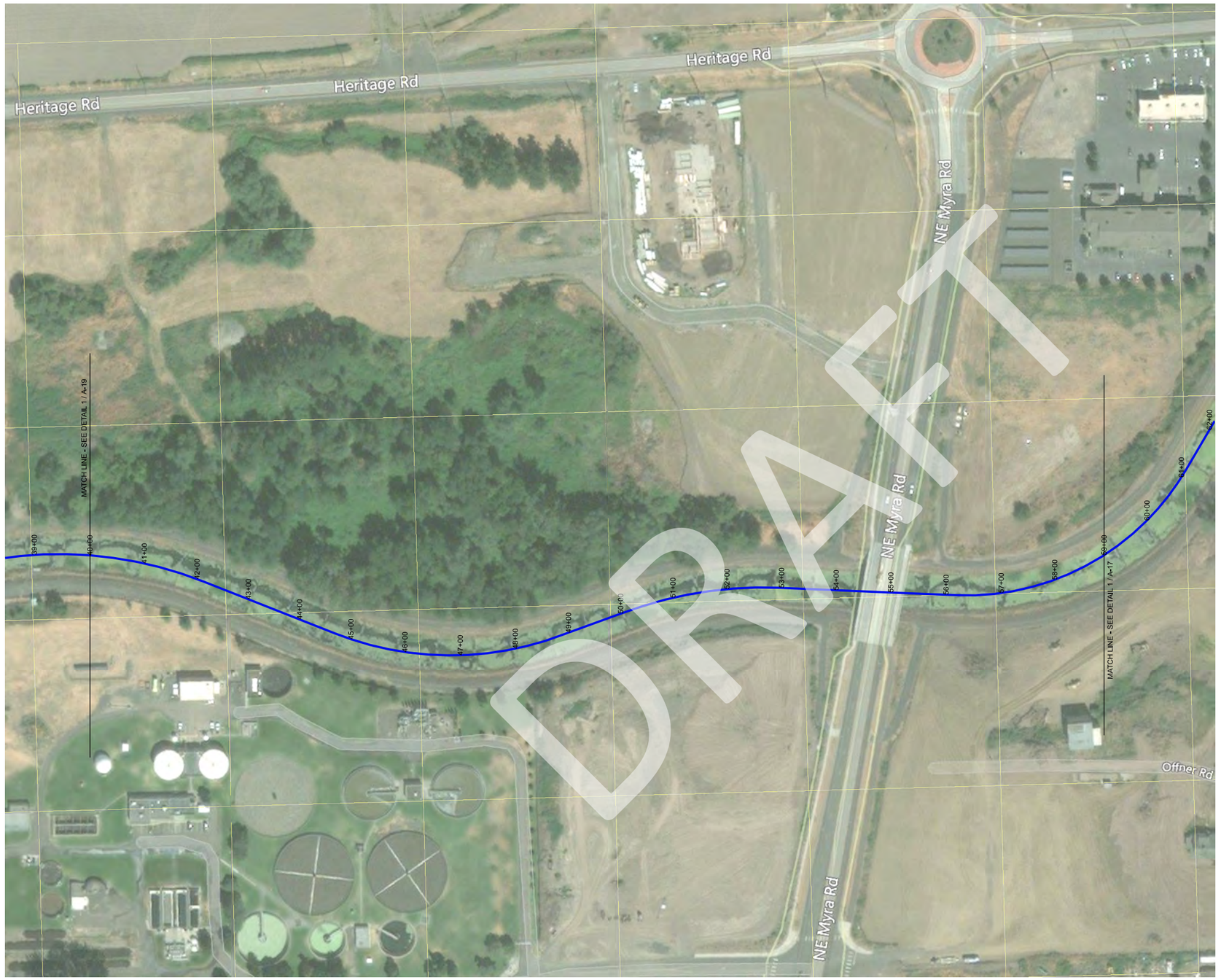

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GENERAL NOTES

1. CHANNEL CENTERLINE AND STATIONING DATA ARE DIGITIZED.

LEGEND

388+00 — 369+00 DIGITIZED CHANNEL CENTERLINE

PLAN NORTH
GRID N

1 MILL CREEK STATION 59+00 TO 40+00
1"=100'

0 100' 200'

B-Annex A-18

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WALLA WALLA, WASHINGTON
GENERAL INVESTIGATION

MILL CREEK CHANNEL
STATIONING AND FEATURES
STATION 59+00 TO 40+00

SHEET ID
A-18

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LEGEND

368+00 369+00 — DIGITIZED CHANNEL CENTERLINE

PLAN NORTH (GRID N)

1 MILL CREEK STATION 40+00 TO 19+00

1"=100'

0 100' 200'

B-Annex A-19

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MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
GENERAL INVESTIGATION

MILL CREEK CHANNEL
STATIONING AND FEATURES
STATION 40+00 TO 19+00

SHEET ID

A-19

DATE AND TIME PLOTTED: 12/12/2019

DESIGN FILE: V:\General Investigations\S.1 Mill Creek - Active\Draft Feasibility Report\V0_Pre-Draft\Appendices\Appendix X - Engineering\Annexes\A - Existing Project Plates\CAD\MCL-GI_A-19.dgn

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DRAFT

GENERAL NOTES

1. CHANNEL CENTERLINE AND STATIONING DATA ARE DIGITIZED.

LEGEND

0+00 — 1+00 DIGITIZED CHANNEL CENTERLINE

PLAN NORTH GRID N

1 MILL CREEK STATION 19+00 TO 0+00

1"=100'

0 100' 200'

B-Annex A-20

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: DESIGNER'S NAME
DRAWN BY: DWN BY
CHECKED BY: CHK BY
SUBMITTED BY: SUBMITTER'S NAME
SIZE:

ISSUE DATE: 12/12/2019
SOLICITATION NO.:
CONTRACT NO.:
FILE NO.: FILE NUMBER

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WALLA WALLA, WASHINGTON

MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
GENERAL INVESTIGATION

MILL CREEK CHANNEL
STATIONING AND FEATURES
STATION 19+00 TO 0+00

SHEET ID

A-20

DATE AND TIME PLOTTED: 12/12/2019

DESIGN FILE: V:\General Investigations\S_1 Mill Creek - Active\Draft Feasibility Report\V0_Pre-Draft\Appendices\Appendix X - Engineering\Annexes\A - Existing Project Plates\CAD\MCL-GI_A-20.dgn

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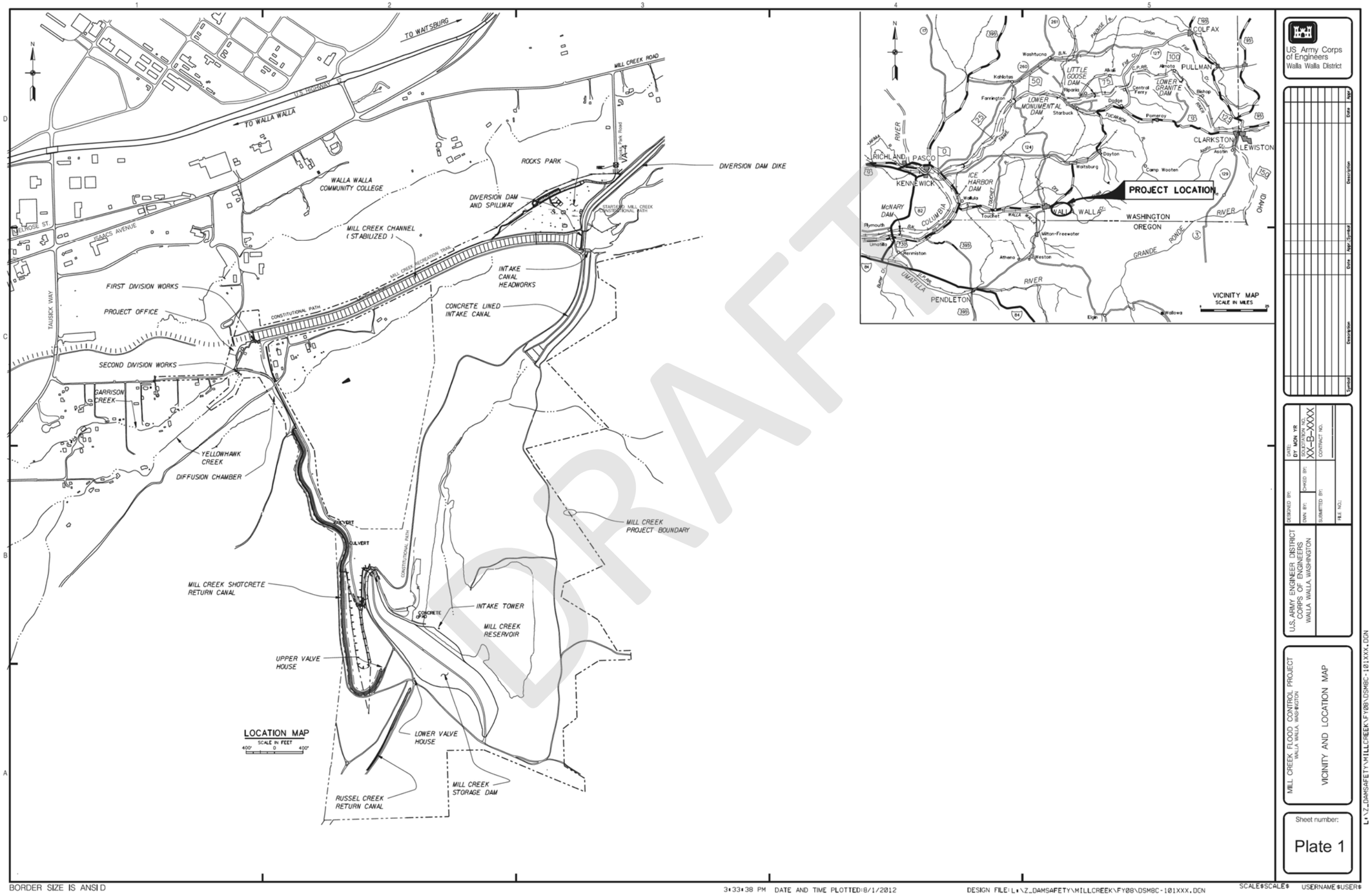

BORDER SIZE IS ANSI D

3:33:38 PM DATE AND TIME PLOTTED:8/1/2012

DESIGN FILE: L:\Z_DAMSAFETY\MILLCREEK\FY08\DSM8C-101XXX.DGN

SCALE=SCALE USERNAME=USER

US Army Corps of Engineers
Walla Walla District

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WALLA WALLA, WASHINGTON

MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON

VICINITY AND LOCATION MAP

Sheet number: Plate 1

US Army Corps of Engineers

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CHECKED BY: CHK BY
SUBMITTED BY: SUBMITTER'S NAME
SIZE:

ISSUE DATE: 12/9/2019
SOLICITATION NO.:
CONTRACT NO.:
FILE NO.: FILE NUMBER

MARK | DESCRIPTION | DATE

MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
GENERAL INVESTIGATION

VICINITY AND LOCATION MAP

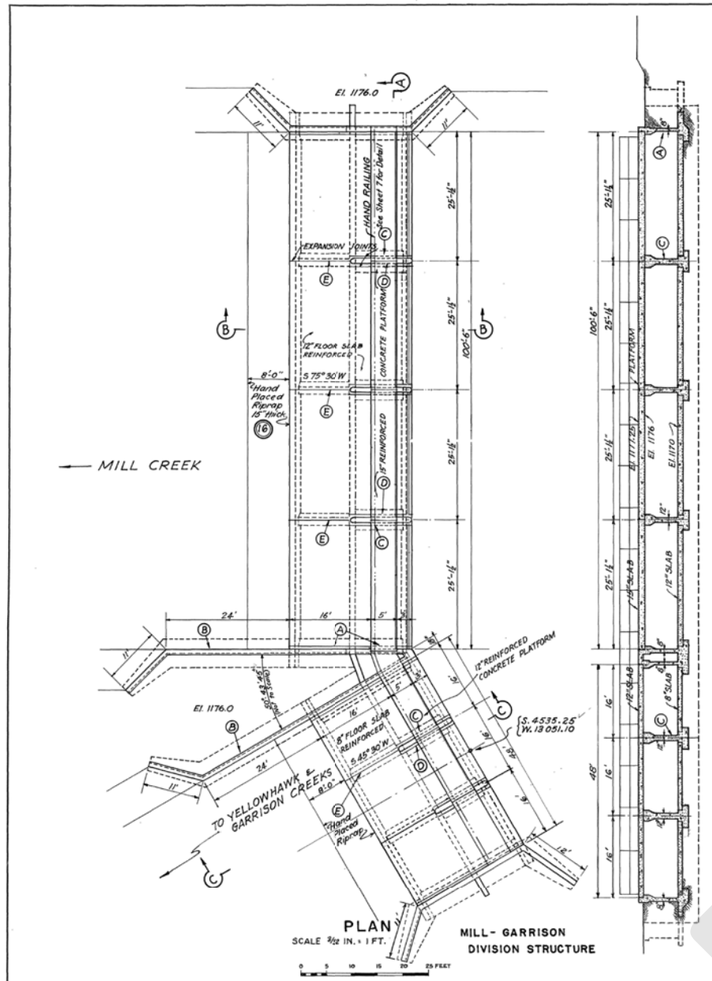
SHEET ID
A-21

DATE AND TIME PLOTTED: 12/9/2019

DESIGN FILE: V:\General Investigations\S.1 Mill Creek - Active\Draft Feasibility Report\V0_Pre-Draft\Appendices\Appendix X - Engineering\Annexes\A - Existing Project Plates\CAD\MCL-GI_A-21.dgn

WAR DEPARTMENT

CORPS OF ENGINEERS, U. S. ARMY



PLAN

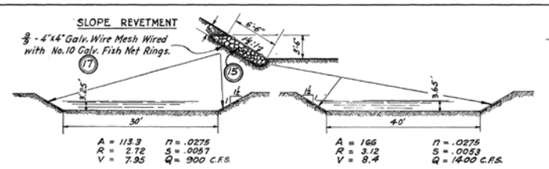
SCALE 3/32 IN. = 1 FT.

MILL- GARRISON DIVISION STRUCTURE

SECTION A-A DEVELOPED

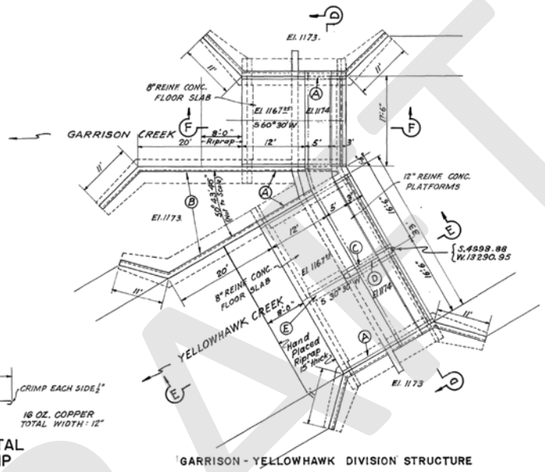
SCALE 3/32 IN = 1 FT.

SECTION F-F



SECTION G-G (10)

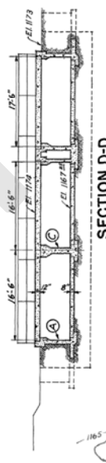
SECTION H-H (10)



GARRISON - YELLOWHAWK DIVISION STRUCTURE

PLAN

SCALE 3/32 IN. = 1 FT.



SECTION D-D DEVELOPED

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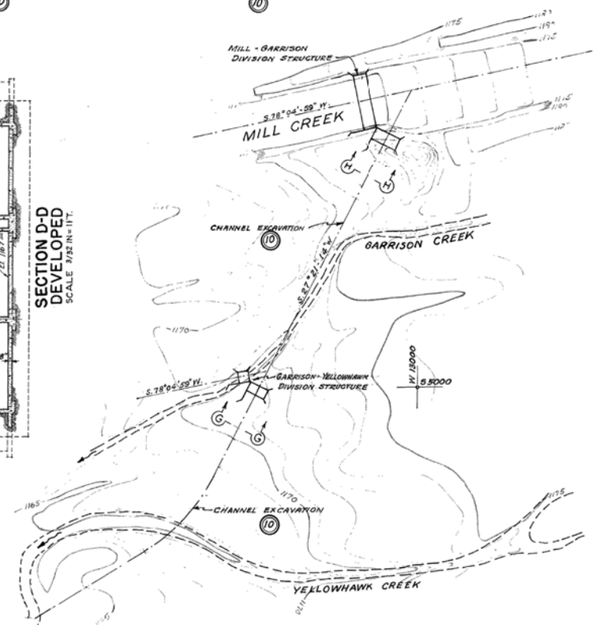
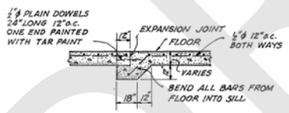


GENERAL PLAN

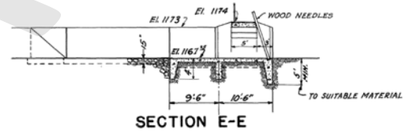
SCALE 1IN = 100 FT.



DETAIL OF METAL SEALING STRIP (25)

DETAIL E

SCALE 1/4 IN = 1 FT.



SECTION E-E

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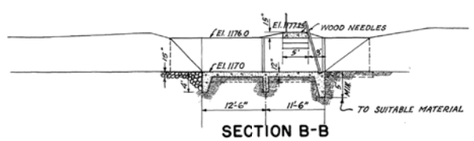
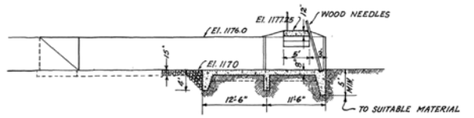


SECTION B-B



SECTION C-C

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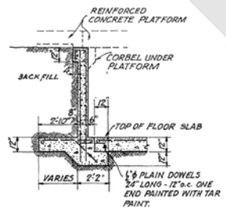
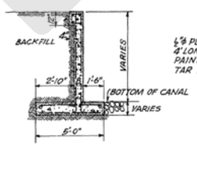
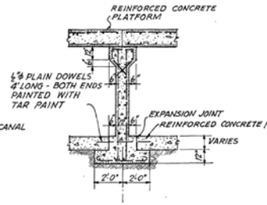


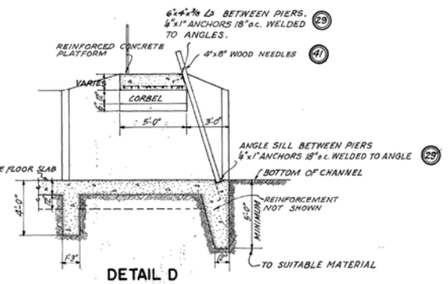
DETAIL A



DETAIL B



DETAIL C



DETAIL D

SCALE 1/4 IN = 1 FT.

Note:
Figures in circles indicate item number under which payment will be made, thus (1)

PREVIOUSLY NUMBERED W-1-11
F-15-16
A-10-12

NOTE:
ALL CONCRETE TO BE CLASS "A" (22)

MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA COUNTY, WASH.

DIVISION STRUCTURES

SHEET Nº 11

SCALES AS NOTED

U. S. ENGINEER OFFICE, SECOND PORTLAND DISTRICT (OREGON)

SUBMITTED: MAJOR, CORPS OF ENGINEERS

APPROVED: LT. COL., CORPS OF ENGINEERS

RECOMMENDED: MAJOR, CORPS OF ENGINEERS

DESIGNED BY R.L. DATE 7-1-36

DR. BY D.R.B. TR. BY C.R.W. CHECKED R.L.

NO.	REVISION	DATE	APV'D
B	Location, length, and elevation of structures changed. Plan view redrawn. Channel cross-section revised. J.R.R.	3-13-40	
A	General revision made	8-26-39	C.E.H.

MC-1-11

US Army Corps of Engineers

DESIGNED BY:	ISSUE DATE: 3/30/1938
DRAWN BY:	SOLICITATION NO.:
CHECKED BY:	CONTRACT NO.:
SUBMITTED BY:	FILE NO.: MC-1-11
SIZE:	

MARK	DESCRIPTION	DATE

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WALLA WALLA, WASHINGTON

MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
GENERAL INVESTIGATION

DIVISION STRUCTURES

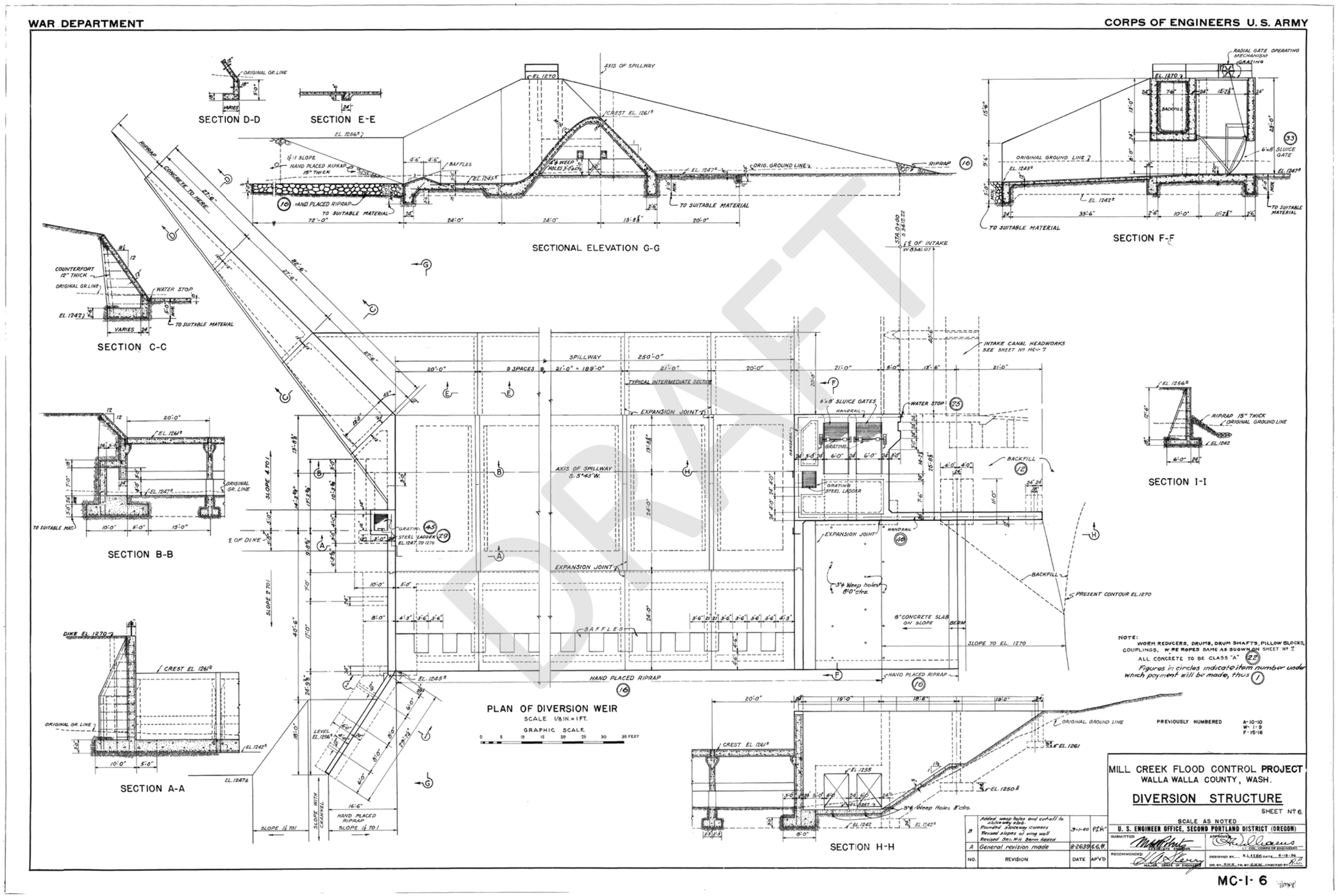
SHEET ID

A-22

DRAFT

DATE AND TIME PLOTTED: 12/9/2019

DESIGN FILE: V:\General Investigations\S.1 Mill Creek - Active\Draft Feasibility Report\V0_Pre-Draft\Appendices\Appendix X - Engineering\Annexes\A - Existing Project Plates\CAD\MCL-GI_A-22.dgn



US Army Corps of Engineers

MARK	DESCRIPTION	DATE

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SUBMITTED BY:
SIZE:
ISSUE DATE: 12/9/2019
SOLICITATION NO.:
CONTRACT NO.:
FILE NO.: MC-1-6

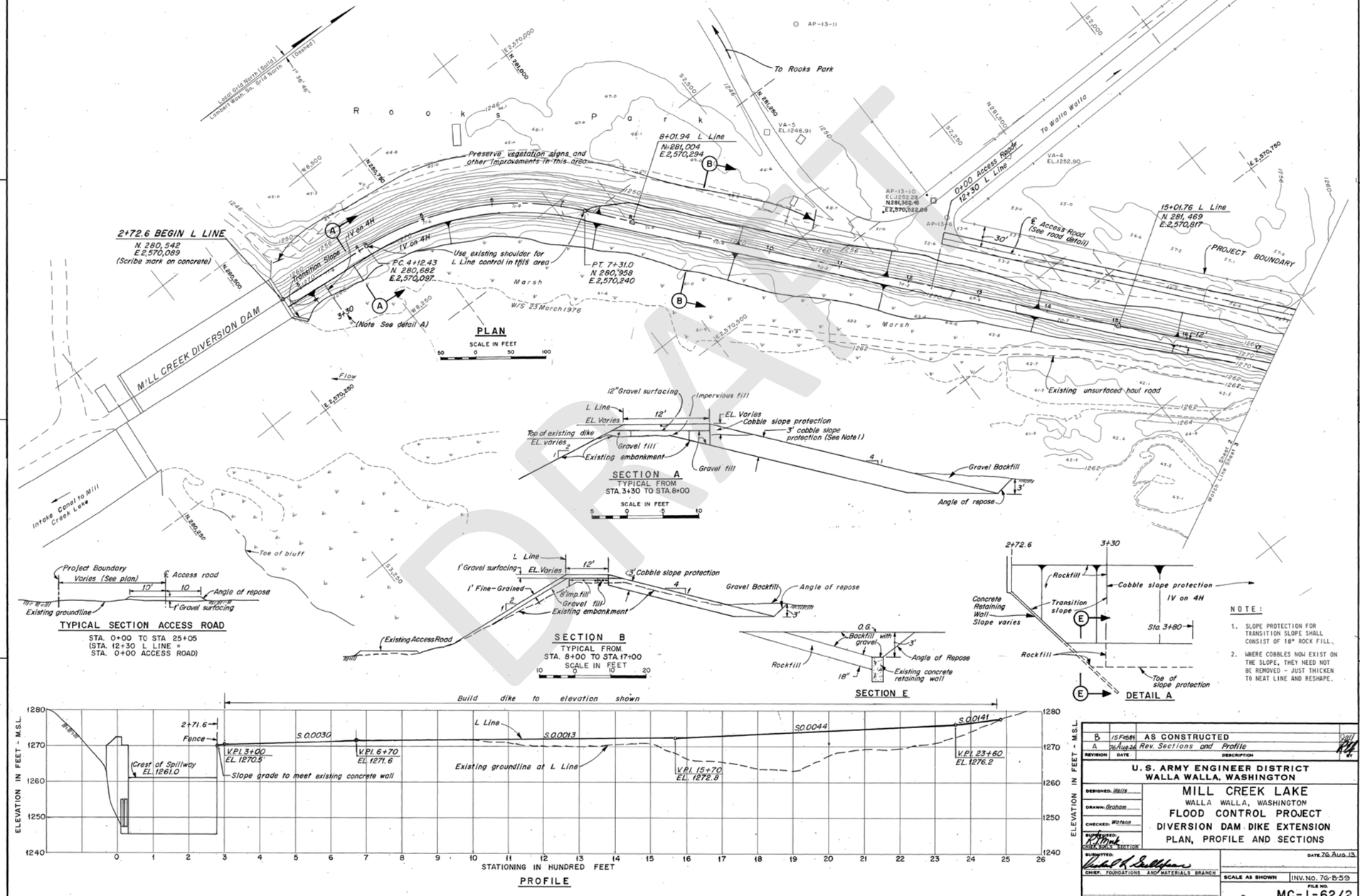
U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WALLA WALLA, WASHINGTON

MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
GENERAL INVESTIGATION

DIVERSION STRUCTURE

SHEET ID
A-23

CORPS OF ENGINEERS — U.S. ARMY



REVISION	DATE	DESCRIPTION
B	15 Feb 77	AS CONSTRUCTED
A	26 Aug 76	Rev. Sections and Profile

U.S. ARMY ENGINEER DISTRICT
WALLA WALLA, WASHINGTON

MILL CREEK LAKE
WALLA WALLA, WASHINGTON
FLOOD CONTROL PROJECT
DIVERSION DAM DIKE EXTENSION
PLAN, PROFILE AND SECTIONS

DESIGNED: Wells
DRAWN: Graham
CHECKED: Watson
SUBMITTED: CHIEF, SOILS SECTION
CHIEF, FOUNDATIONS AND MATERIALS BRANCH
DATE 26 Aug 76
SCALE AS SHOWN
INV. NO. 76-B-59
FILE NO. MC-1-62/2
SHEET 2
76-C-287

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US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:
DRAWN BY:
CHECKED BY:
SUBMITTED BY:
SIZE:
ISSUE DATE: 12/9/2019
SOLICITATION NO.:
CONTRACT NO.:
FILE NO.: MC1-4622

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WALLA WALLA, WASHINGTON

MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
GENERAL INVESTIGATION

FLOOD CONTROL PROJECT
DIVERSION DAM DIKE EXTENSION
PLAN PROFILE AND SECTIONS

SHEET ID
A-24

DRAFT

DATE AND TIME PLOTTED: 12/9/2019

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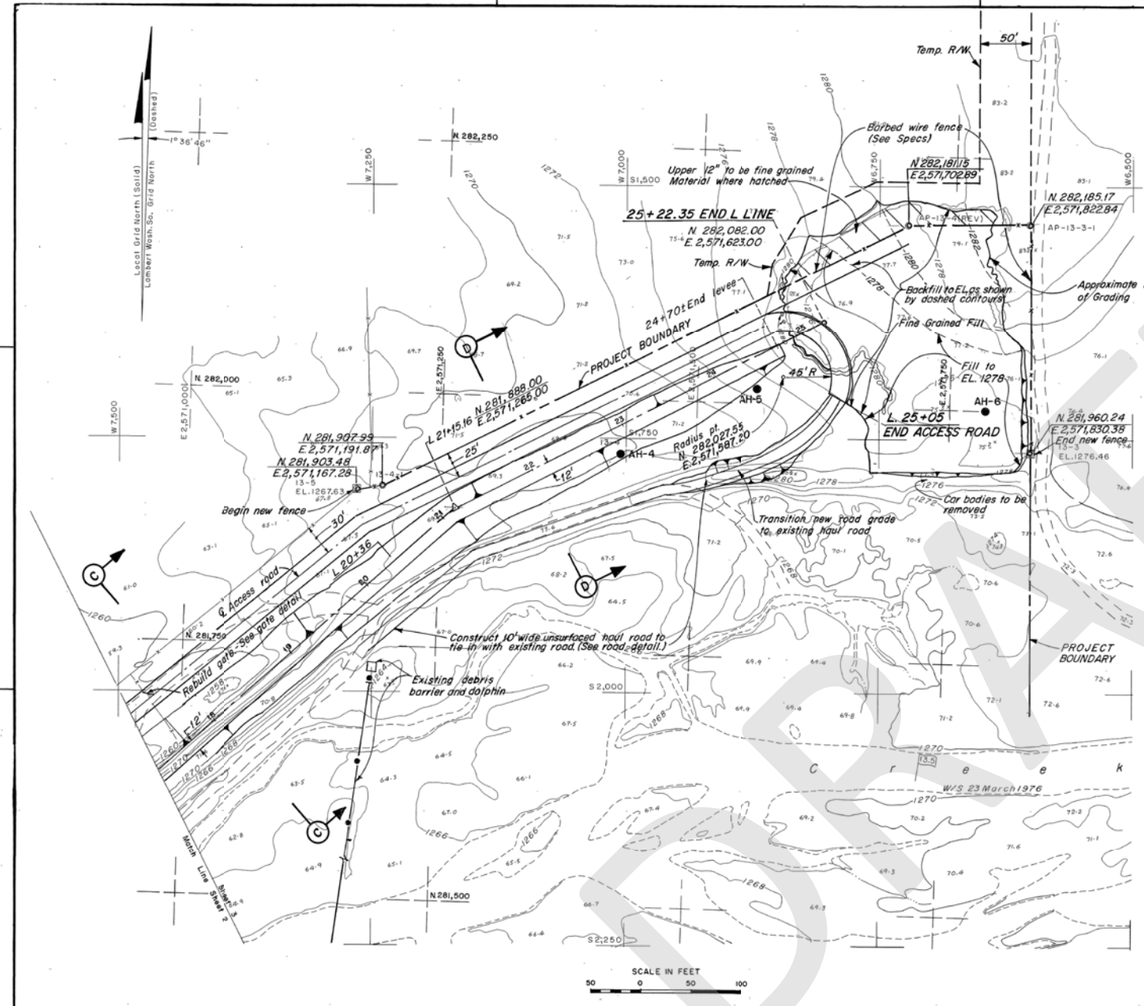
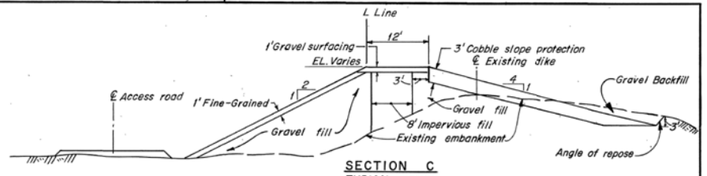
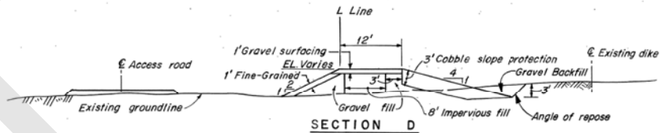
CORPS OF ENGINEERS — U.S. ARMY



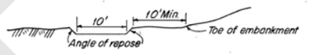


SECTION C
TYPICAL FROM
STA. 17+00 TO STA. 22+00

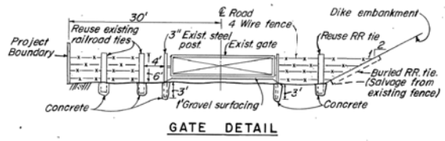


SECTION D
TYPICAL FROM STA. 22+00
TO STA. 24+70 ± (Tie-in)

SCALE IN FEET
10 0 10 20



DETAIL
UNSURFACED HAUL ROAD



GATE DETAIL

NOTE:
1. See sheet 2 for levee profile.

AH - 4
N 281,948.6
E 2,571,423.1
30 March 1976
0 — 1270 — SILT, DARK BROWN
3 — GRAVEL (REFUSAL)

AH - 5
N 282,015.6
E 2,571,558.1
30 March 1976
0 — 1275 — SILT, DARK BROWN
3 — 6 — SANDY SILT, BROWN

AH - 6
N 282,000.2
E 2,571,783.4
30 March 1976
0 — 1275 — SILT, BROWN WITH OCCASIONAL GRAVEL
2 — GRAVEL (REFUSAL)

REVISION	DATE	DESCRIPTION	
B	24 Feb 15	AS CONSTRUCTED	GRW FILMED
A	26 Aug 14	Revised fence, added note.	GRW

U. S. ARMY ENGINEER DISTRICT
WALLA WALLA, WASHINGTON

DESIGNED: G. Wells
DRAWN: Graham
CHECKED: Watson
SUPERVISED: (CHIEF, SOILS SECTION)

MILL CREEK LAKE
WALLA WALLA, WASHINGTON
FLOOD CONTROL PROJECT
DIVERSION DAM DIKE EXTENSION
PLAN, SECTIONS AND DETAILS

SUBMITTED: (CHIEF, FOUNDATIONS AND MATERIALS BRANCH)
DATE: 26 AUG. 15
SCALE AS SHOWN
INV. NO. 76-B-59
SHEET 3
FILE NO. MC-1-62/3

76-C-287

Filmed

MILL CREEK

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:
DRAWN BY:
CHECKED BY:
SUBMITTED BY:
SIZE:
ISSUE DATE: 12/9/2019
SOLICITATION NO.:
CONTRACT NO.:
FILE NO.: MC1-4823

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WALLA WALLA, WASHINGTON

MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
GENERAL INVESTIGATION

FLOOD CONTROL PROJECT
DIVERSION DAM DIKE EXTENSION
PLAN, SECTIONS AND DETAILS

SHEET ID
A-25

DRAFT

DATE AND TIME PLOTTED: 12/9/2019
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