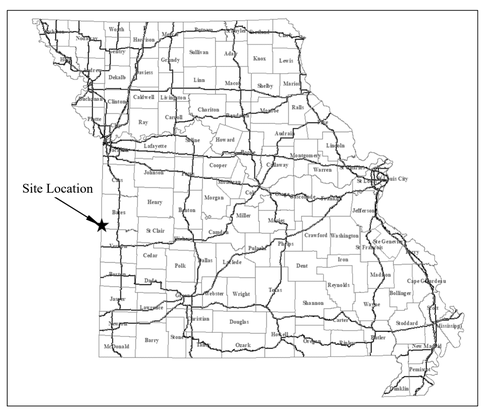
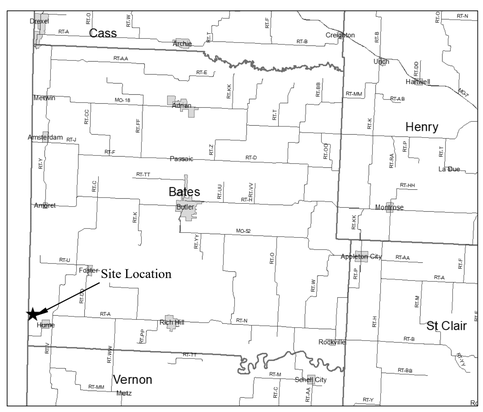
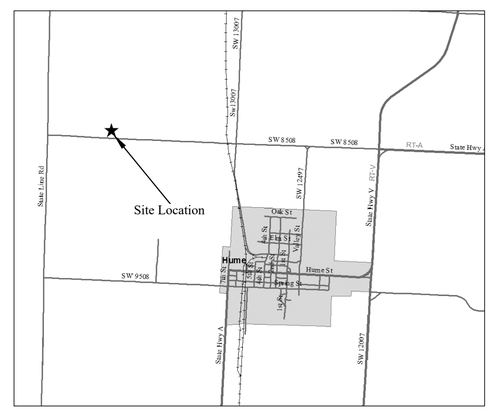
Franklin
Reclamation Project
Bates County, Missouri







OWNER: STATE OF MISSOURI
MICHAEL L. PARSON
GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION PROGRAM (LRP)

PROJECT MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

STATE OF MISSOURI
BRENT EDWARD WILLEFORD
09/10/2021
PE-2007020346
PROFESSIONAL ENGINEER

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	ALTERNATE 1- 329219 - SEEDING
C-101	PLAN VIEW AREA - 2
	ALTERNATE 1- 329219 - SEEDING
C-102	PLAN VIEW AREA - 3
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C-103	PLAN VIEW AREAS - 4 & 5
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	BASELINE-5 Sta 0+00 to Sta 5+99
D-100	Details
	Silt Fence
	Straw Bales
	12 Inch CMP
	Access Road

DESIGNER: LAND RECLAMATION PROGRAM

PROJECT NUMBER: Y2202-01

SHEET NUMBER:
G-100
1 OF 12 SHEETS
October 15, 2021

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

STATE OF MISSOURI
BRENT EDWARD WILLEFORD
09/10/2021
PE-2007020346
PROFESSIONAL ENGINEER

MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

MO. DEPARTMENT OF
NATURAL RESOURCES
LAND RECLAMATION
PROGRAM

Franklin Reclamation Project

FACILITY: NOT APPLICABLE

Bates County, Missouri

PROJECT # Y2202-01
SITE # N/A
FACILITY # N/A

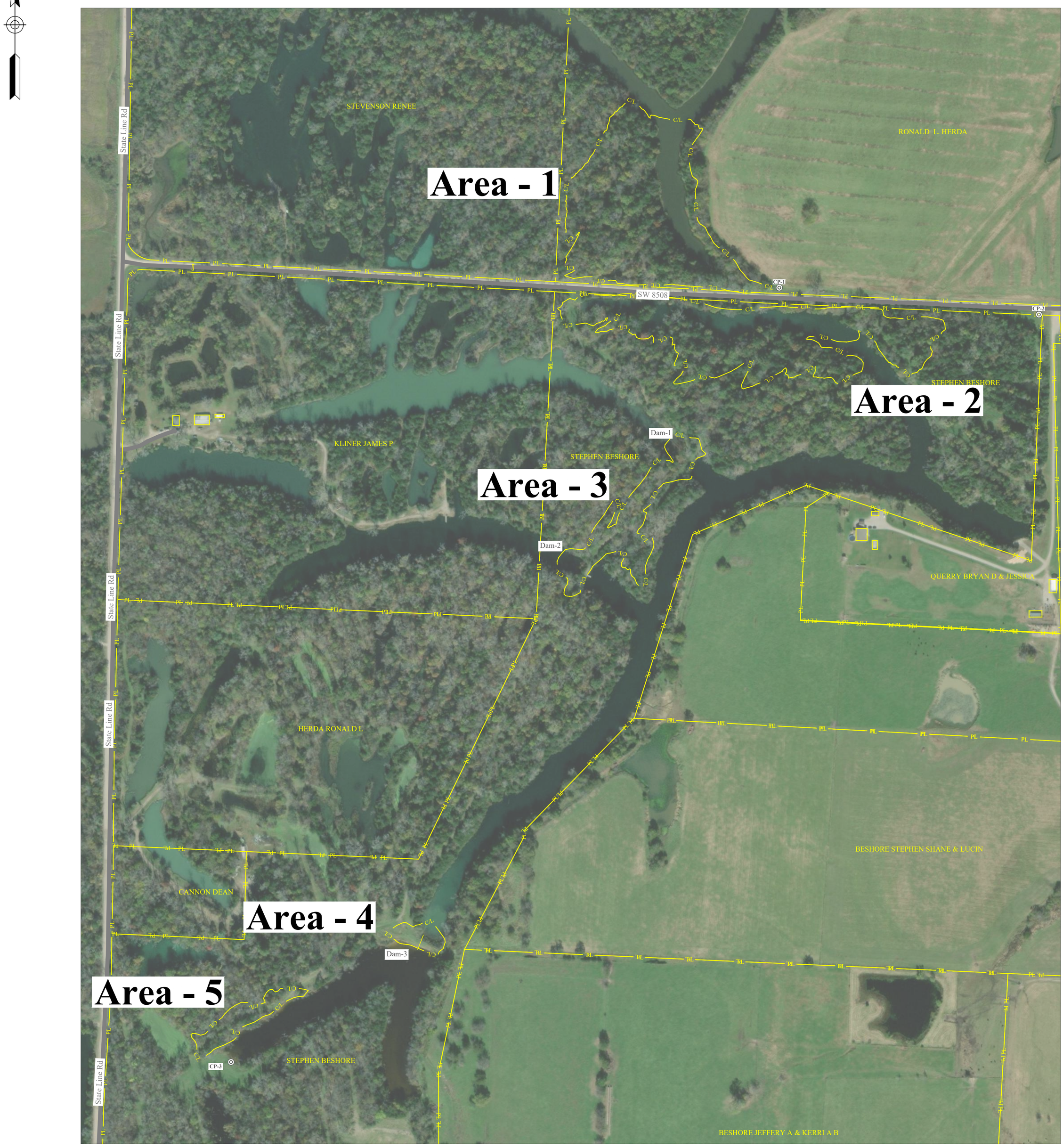
REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 10/15/2021

CAD DWG FILE:
DRAWN BY: BEW
CHECKED BY: LRP
DESIGNED BY: BEW

SHEET TITLE:
Project Areas with Aerial Imagery

SHEET NUMBER:
G-101
2 OF 12 SHEETS
10/15/2021

Franklin Reclamation Project



CONTROL POINT DATA				
PT. NO	EASTING UTM ZONE-15 NAD-83 (FT)	NORTHING UTM ZONE-15 NAD-83 (FT)	ELEVATION NAVD 88 (FT)	DESCRIPTION
CP-1	1178814.25	13840269.09	884.35	½" Iron Pin with Aluminum Cap
CP-2	1179841.54	13840162.77	886.79	½" Iron Pin with Aluminum Cap
CP-3	1176645.00	13837206.16	889.75	½" Iron Pin with Aluminum Cap

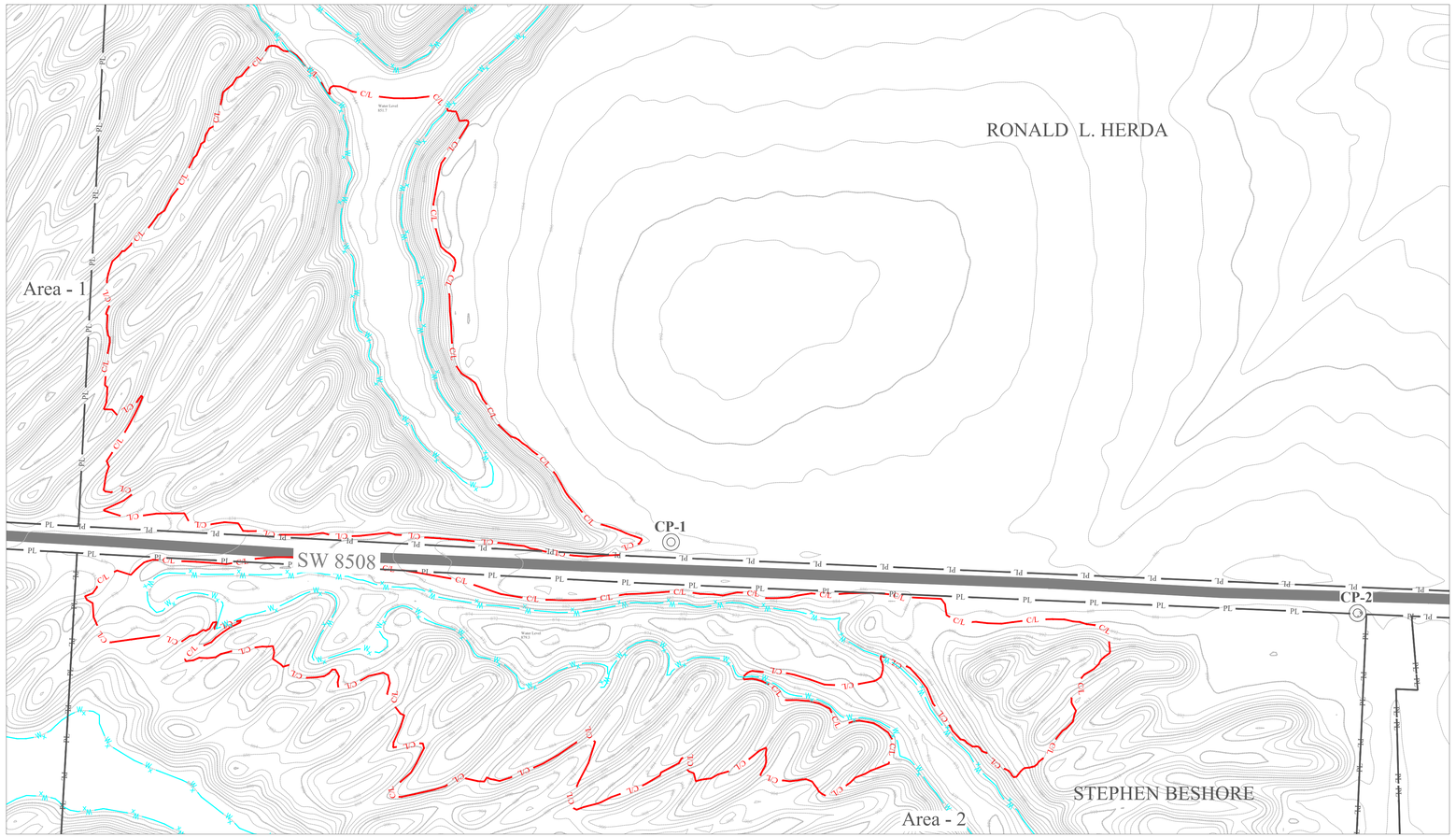
Note: Owner will Establish a Back Sight Location and Provide Coordinate Locations and Elevation for CP-1 & CP-2 in the Field if Requested by Contractor.

Legend

Property Lines — PL
Construction Limits — C/L
Roads
Buildings
Control Point
Existing Pipe

Franklin Reclamation Project

N



Area 1 & 2

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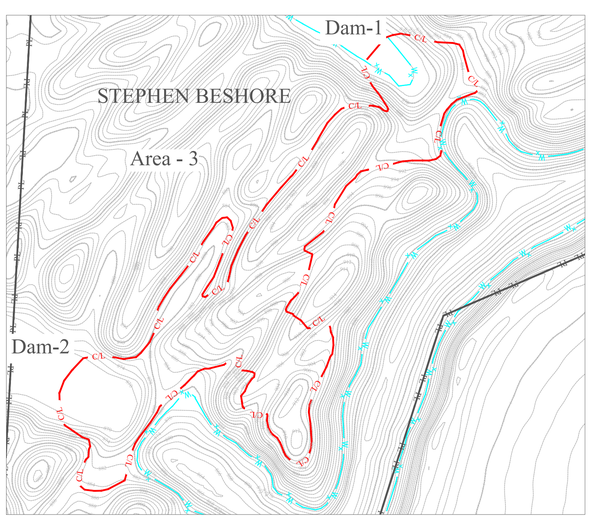
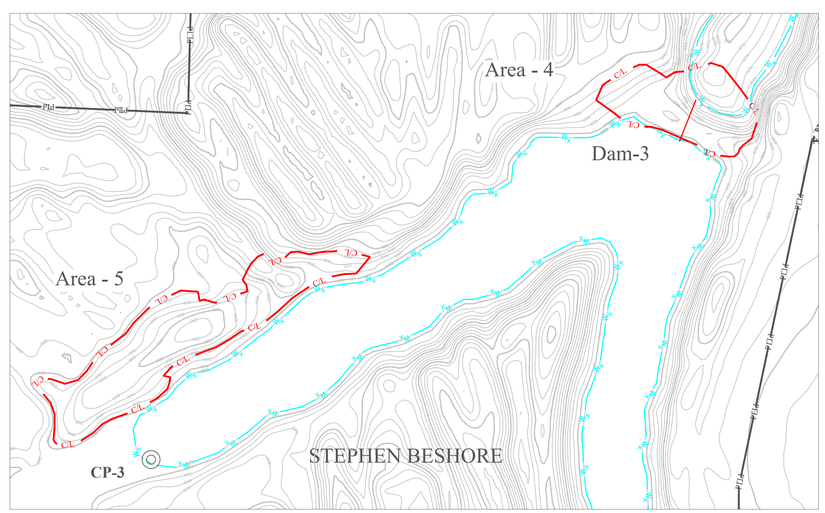
Scale: 1" = 100'



Area 3

0 100' 200'
Scale: 1" = 100'



Area 4 & 5

Notes:

1. Missouri One Call System (DIG_RITE) 1-800-344-7483.
2. Verifications of the locations of above ground and below ground utilities, shown or not shown, shall be the responsibility of the construction contractor.
3. Property lines are approximate.
4. All areas of incidental coal waste shall be treated with an application and incorporation of Ag Lime, as directed by the Resident Project Representative, and buried a minimum of six (6) feet below final grade.
5. Remove all trash and debris within the project limits, whether shown on drawings or not, and dispose of off-site in permitted, licensed landfill.
6. All roadside ditches disturbed by construction activities shall be reestablished by Contractor. Unless otherwise indicated on plans, outlet all ditches as field conditions warrant and as approved by the Resident Project Representative.
7. All existing fences disturbed by construction activities are to be reestablished to as good or better condition unless otherwise shown on the project plans.
8. Contractor shall be responsible for referencing existing fence locations and corner posts within the project areas prior to removal.

CONTROL POINT DATA

PT. NO	EASTING UTM ZONE-15 NAD-83 (FT)	NORTHING UTM ZONE-15 NAD-83 (FT)	ELEVATION NAVD 88 (FT)	DESCRIPTION
CP-1	1178814.25	13840269.09	884.35	½" Iron Pin with Aluminum Cap
CP-2	1179841.54	13840162.77	886.79	½" Iron Pin with Aluminum Cap
CP-3	1176645.00	13837206.16	889.75	½" Iron Pin with Aluminum Cap

Legend

Existing Contours
Property Line — PL
Construction Limits — C/L
Existing Water Edge — W_E
Existing Pipe — CP_E
Control Point

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

STATE OF MISSOURI
BRENT EDWARD WILLEFORD
09/10/2021
PE-2007020346
PROFESSIONAL ENGINEER

MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

MO. DEPARTMENT OF
NATURAL RESOURCES
LAND RECLAMATION
PROGRAM

Franklin Reclamation Project

FACILITY: NOT APPLICABLE

Bates County, Missouri

PROJECT # Y2202-01
SITE # N/A
FACILITY # N/A

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 10/15/2021

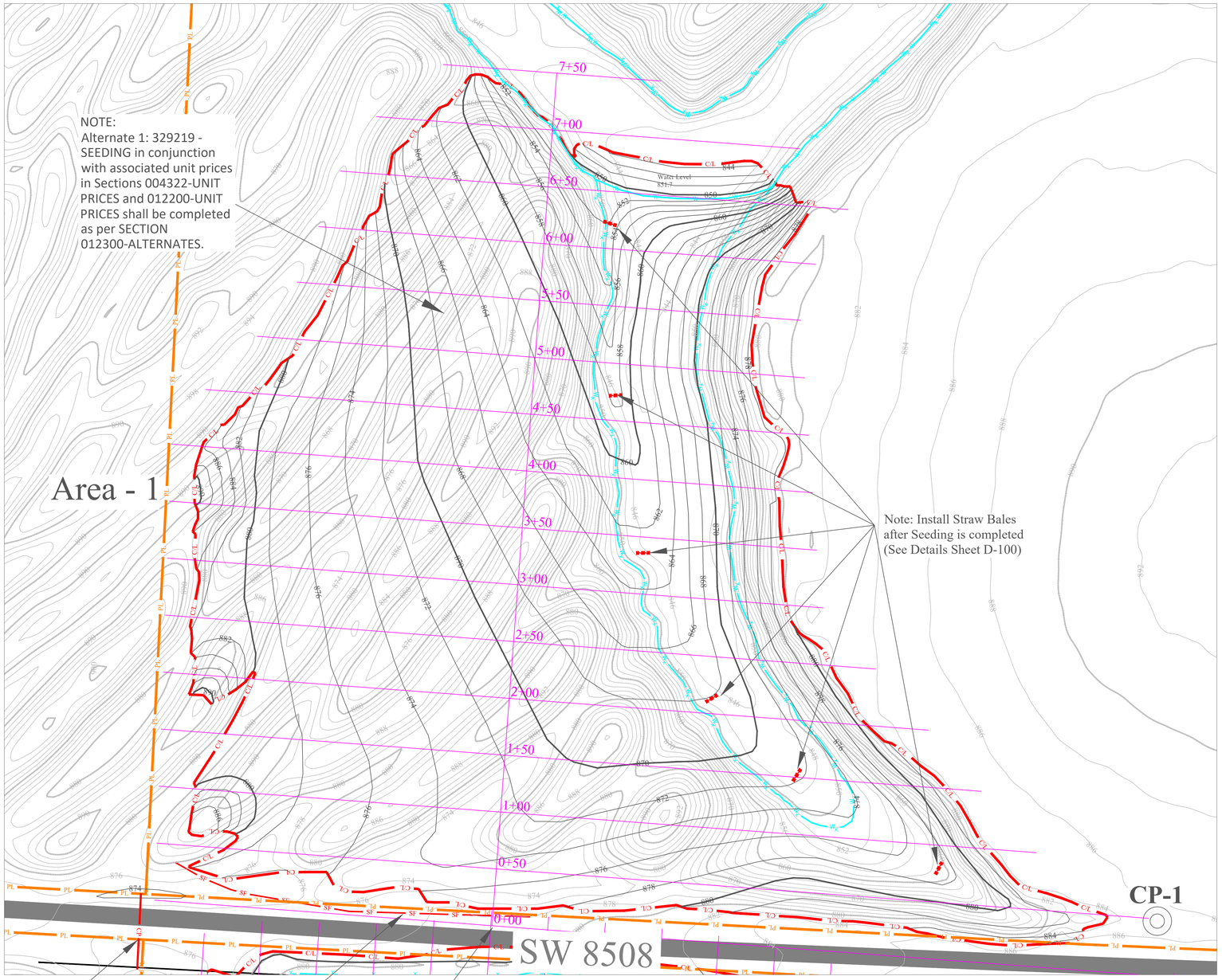
CAD DWG FILE:
DRAWN BY: BEW
CHECKED BY: LRP
DESIGNED BY: BEW

SHEET TITLE:
Existing Conditions
Areas 1-5

SHEET NUMBER:
G-102

3 OF 12 SHEETS
10/15/2021

Franklin Reclamation Project



Area - 1

CONTROL POINT DATA				
PT. NO	EASTING UTM ZONE-15 NAD-83 (FT)	NORTHING UTM ZONE-15 NAD-83 (FT)	ELEVATION NAVD 88 (FT)	DESCRIPTION
CP-1	1178814.25	13840269.09	884.35	3/4" Iron Pin with Aluminum Cap
CP-2	1179841.54	13840162.77	886.79	3/4" Iron Pin with Aluminum Cap
CP-3	1176645.00	13837206.16	889.75	3/4" Iron Pin with Aluminum Cap

BASELINE DATA			
BASELINE #	STATION #	EASTING UTM ZONE-15 (FT)	NORTHING UTM ZONE-15 (FT)
BASELINE - 1	0+00	1178231.05	13840265.04
BASELINE - 1	7+67	1178289.05	13841029.49
BASELINE - 2	0+00	1177923.54	13840184.74
BASELINE - 2	15+67	1179486.36	13840072.97
BASELINE - 3	0+00	1177942.47	13839030.45
BASELINE - 3	8+92	1178533.34	13839698.50
BASELINE - 4	0+00	1177253.05	13837749.34
BASELINE - 4	2+73	1177498.07	13837628.59
BASELINE - 5	0+00	1176463.05	13837244.15
BASELINE - 5	5+99	1176976.32	13837552.87

Legend

- Existing Contours
- Design Contours
- Roads
- Property Line
- Construction Limits
- Existing Water Edge
- Proposed Water Edge
- Silt Fence
- Pipe - New CMP
- Straw Bales
- Control Point

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

STATE OF MISSOURI
BRENT EDWARD WILLEFORD
09/10/2021
PE-2007020346
PROFESSIONAL ENGINEER

MISSOURI
DEPARTMENT OF NATURAL RESOURCES

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

MO. DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION PROGRAM

Franklin Reclamation Project

FACILITY: NOT APPLICABLE

Bates County, Missouri

PROJECT # Y2202-01
SITE # N/A
FACILITY # N/A

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 10/15/2021

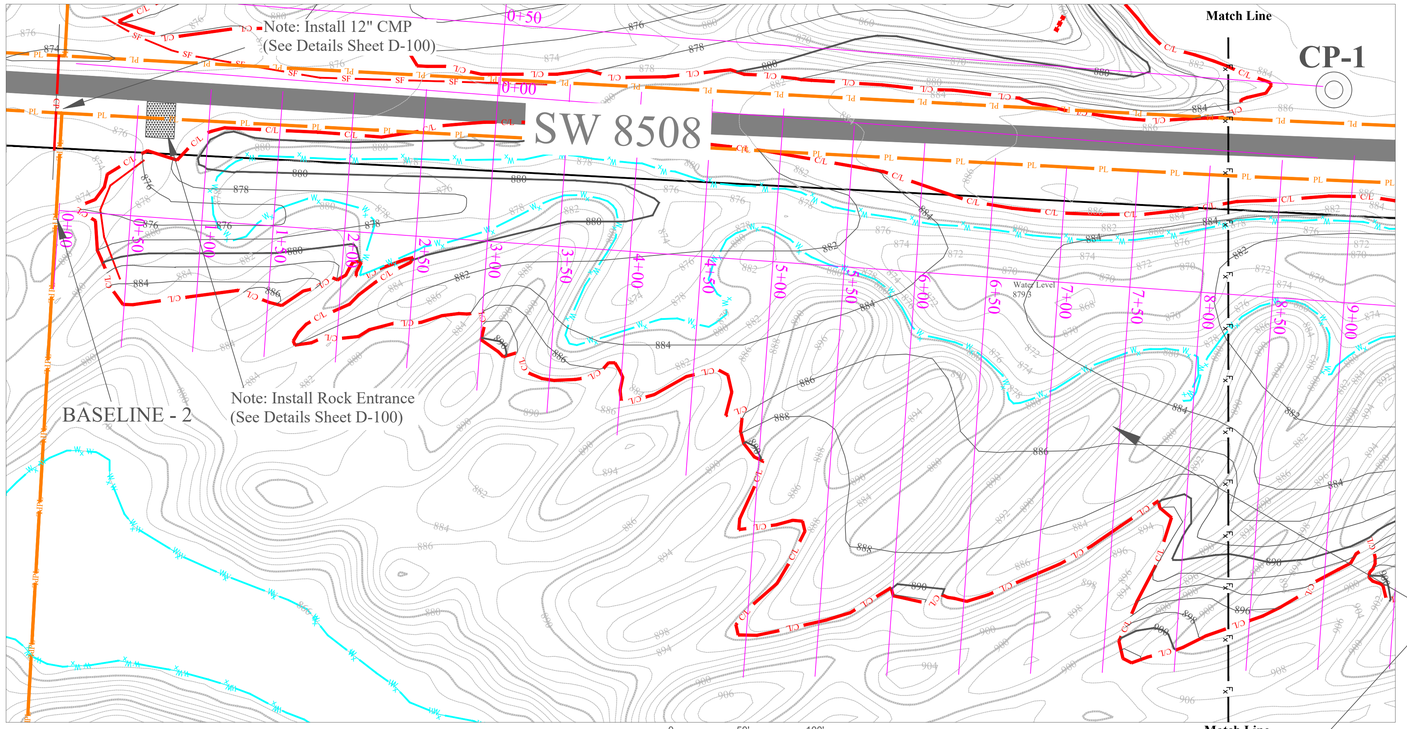
CAD DWG FILE:
DRAWN BY: BEW
CHECKED BY: LRP
DESIGNED BY: BEW

SHEET TITLE:
Plan View Area - 1
Alternate 1- 329219 - SEEDING

SHEET NUMBER:
C-100

4 OF 12 SHEETS
10/15/2021

Franklin Reclamation Project



Area - 2 (West)

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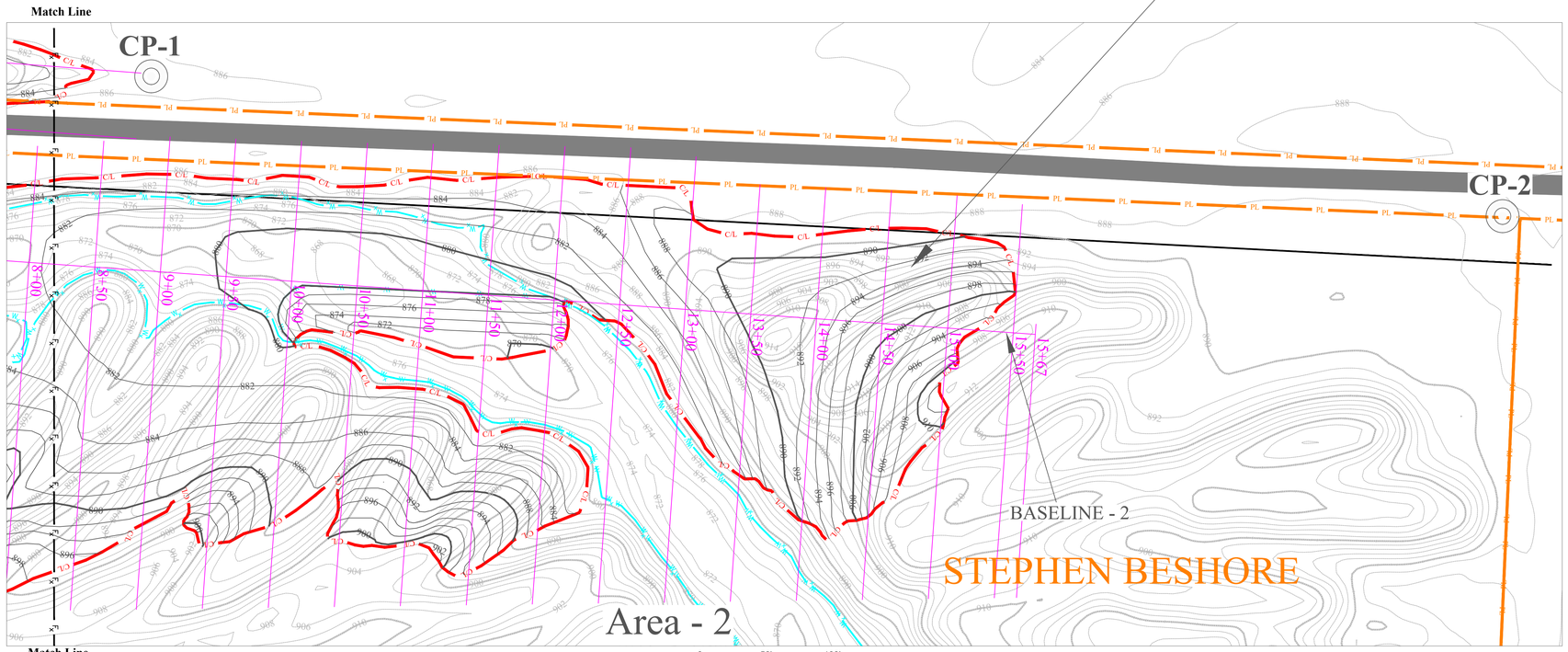
Scale: 1" = 50'



Area - 2 (East)

0 50' 100'
Scale: 1" = 50'

Legend

- Existing Contours
- Design Contours
- Roads
- Property Line
- Construction Limits
- Existing Water Edge
- Proposed Water Edge
- Silt Fence
- Match Line
- Pipe - New CMP
- Straw Bales
- Control Point
- 2" Clean Rock

NOTE:
Alternate 1: 329219 - SEEDING in conjunction with associated unit prices in Sections 004322-UNIT PRICES and 012200-UNIT PRICES shall be completed as per SECTION 012300-ALTERNATES.

CONTROL POINT DATA

PT. NO	EASTING UTM ZONE-15 NAD-83 (FT)	NORTHING UTM ZONE-15 NAD-83 (FT)	ELEVATION NAVD 88 (FT)	DESCRIPTION
CP-1	1178814.25	13840269.09	884.35	1/2" Iron Pin with Aluminum Cap
CP-2	1179841.54	13840162.77	886.79	1/2" Iron Pin with Aluminum Cap
CP-3	1176645.00	13837206.16	889.75	1/2" Iron Pin with Aluminum Cap

BASELINE DATA

BASELINE #	STATION #	EASTING UTM ZONE-15 (FT)	NORTHING UTM ZONE-15 (FT)
BASELINE - 1	0+00	1178231.05	13840265.04
BASELINE - 1	7+67	1178289.05	13841029.49
BASELINE - 2	0+00	1177923.54	13840184.74
BASELINE - 2	15+67	1179486.36	13840072.97
BASELINE - 3	0+00	1177942.47	13839030.45
BASELINE - 3	8+92	1178533.34	13839698.50
BASELINE - 4	0+00	1177253.05	13837749.34
BASELINE - 4	2+73	1177498.07	13837628.59
BASELINE - 5	0+00	1176463.05	13837244.15
BASELINE - 5	5+99	1176976.32	13837552.87

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

STATE OF MISSOURI
BRENT EDWARD WILLEFORD
09/10/2021
PE-2007020346
PROFESSIONAL ENGINEER

MISSOURI
DEPARTMENT OF NATURAL RESOURCES

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

MO. DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION PROGRAM

Franklin Reclamation Project

FACILITY: NOT APPLICABLE

Bates County, Missouri

PROJECT # Y2202-01
SITE # N/A
FACILITY # N/A

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 10/15/2021

CAD DWG FILE:
DRAWN BY: BEW
CHECKED BY: LRP
DESIGNED BY: BEW

SHEET TITLE:
Plan View Area - 2
Alternate 1- 329219 - SEEDING

SHEET NUMBER:
C-101

10/15/2021

Franklin Reclamation Project

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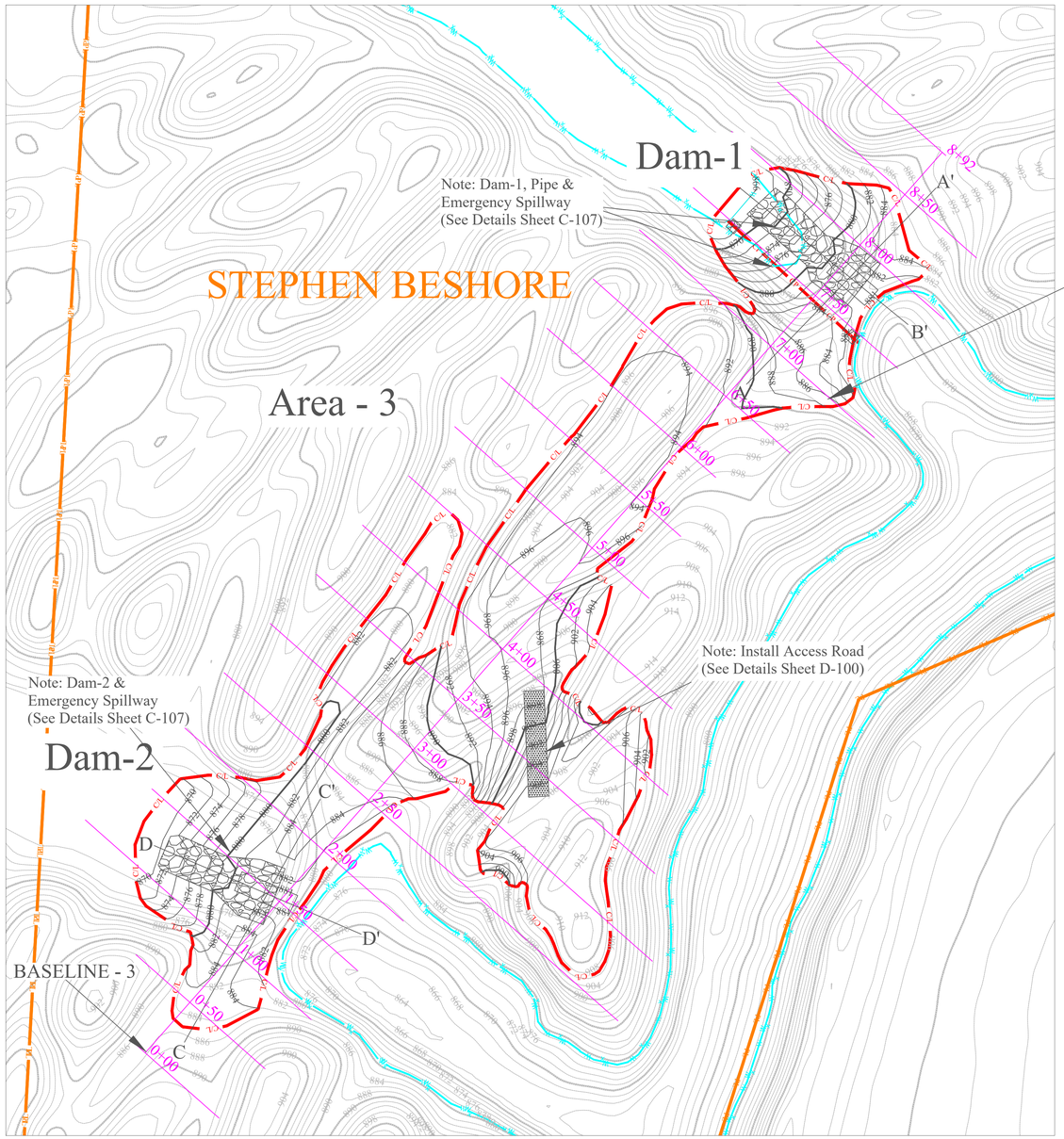

0 50' 100'

Scale: 1" = 50'

NOTE:
Alternate 1: 329219 - SEEDING in conjunction with associated unit prices in Sections 004322-UNIT PRICES and 012200-UNIT PRICES shall be completed as per SECTION 012300-ALTERNATES.

CONTROL POINT DATA				
PT. NO	EASTING UTM ZONE-15 NAD-83 (FT)	NORTHING UTM ZONE-15 NAD-83 (FT)	ELEVATION NAVD 88 (FT)	DESCRIPTION
CP-1	1178814.25	13840269.09	884.35	1/2" Iron Pin with Aluminum Cap
CP-2	1179841.54	13840162.77	886.79	1/2" Iron Pin with Aluminum Cap
CP-3	1176645.00	13837206.16	889.75	1/2" Iron Pin with Aluminum Cap

BASELINE DATA			
BASELINE #	STATION #	EASTING UTM ZONE-15 (FT)	NORTHING UTM ZONE-15 (FT)
BASELINE - 1	0+00	1178231.05	13840265.04
BASELINE - 1	7+67	1178289.05	13841029.49
BASELINE - 2	0+00	1177923.54	13840184.74
BASELINE - 2	15+67	1179486.36	13840072.97
BASELINE - 3	0+00	1177942.47	13839030.45
BASELINE - 3	8+92	1178533.34	13839698.50
BASELINE - 4	0+00	1177253.05	13837749.34
BASELINE - 4	2+73	1177498.07	13837628.59
BASELINE - 5	0+00	1176463.05	13837244.15
BASELINE - 5	5+99	1176976.32	13837552.87

Legend

- Existing Contours
- Design Contours
- Property Line (PL)
- Construction Limits (C/L)
- Proposed Water Edge (W)
- MoDot Type 3 Ditch Liner
- 2 Inch Clean Rock

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

STATE OF MISSOURI
BRENT EDWARD WILLEFORD
09/10/2021
PE-2007020346
PROFESSIONAL ENGINEER

MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

MO. DEPARTMENT OF
NATURAL RESOURCES
LAND RECLAMATION
PROGRAM

Franklin Reclamation Project

FACILITY: NOT APPLICABLE

Bates County, Missouri

PROJECT # Y2202-01
SITE # N/A
FACILITY # N/A

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 10/15/2021

CAD DWG FILE:
DRAWN BY: BEW
CHECKED BY: LRP
DESIGNED BY: BEW

SHEET TITLE:
Plan View Area - 3
Alternate 1- 329219 - SEEDING

SHEET NUMBER:
C-102

6 OF 12 SHEETS
10/15/2021

Franklin Reclamation Project

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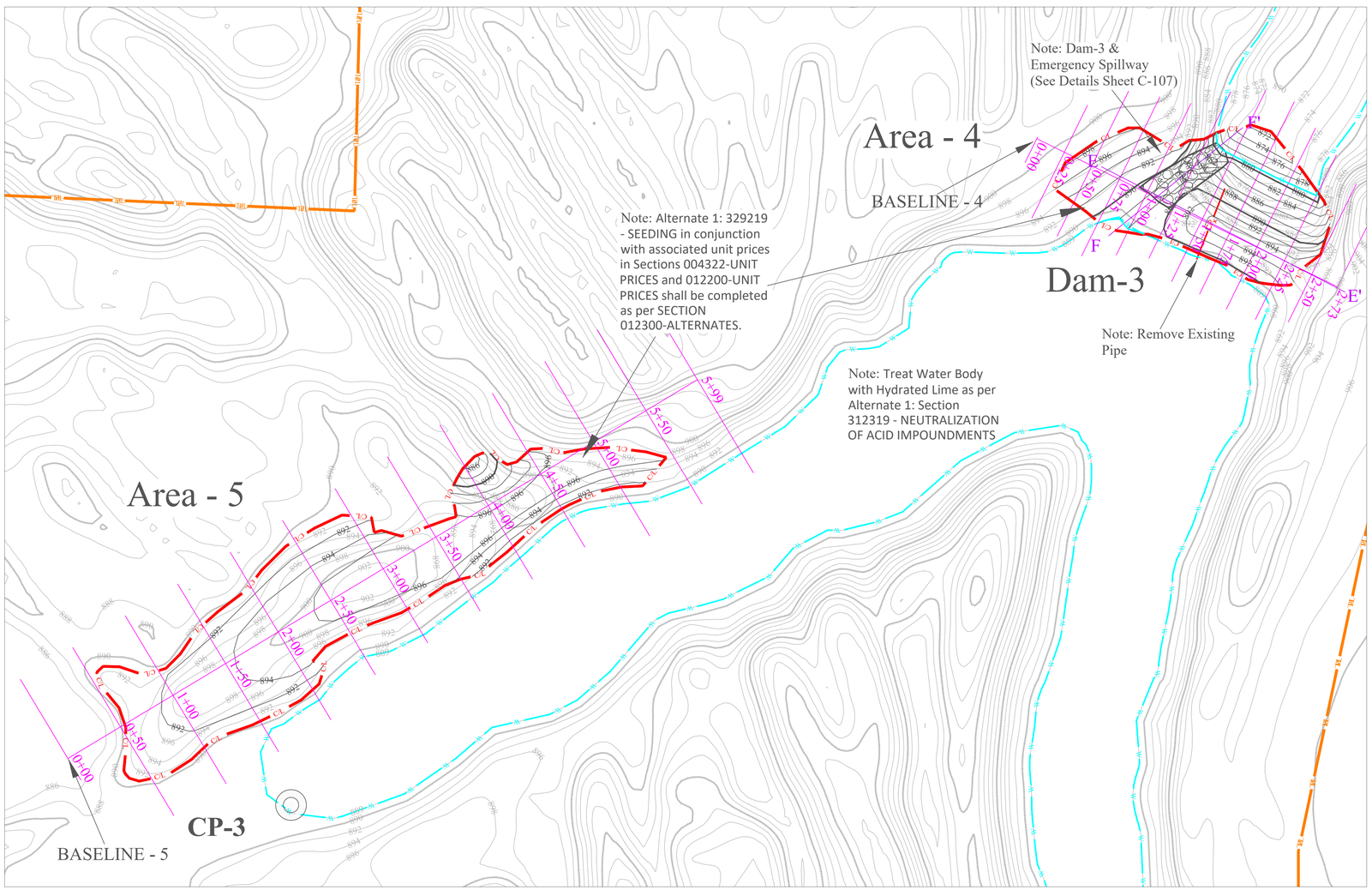

CONTROL POINT DATA				
PT. NO	EASTING UTM ZONE-15 NAD-83 (FT)	NORTHING UTM ZONE-15 NAD-83 (FT)	ELEVATION NAVD 88 (FT)	DESCRIPTION
CP-1	1178814.25	13840269.09	884.35	½" Iron Pin with Aluminum Cap
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CP-3	1176645.00	13837206.16	889.75	½" Iron Pin with Aluminum Cap

BASELINE DATA			
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BASELINE - 1	0+00	1178231.05	13840265.04
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BASELINE - 4	2+73	1177498.07	13837628.59
BASELINE - 5	0+00	1176463.05	13837244.15
BASELINE - 5	5+99	1176976.32	13837552.87

Legend

- Existing Contours
- Design Contours
- Property Line (PL)
- Construction Limits (C/L)
- Proposed Water Edge (W)
- Existing Pipe (CPx)
- MoDot Type 3 Ditch Liner

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

STATE OF MISSOURI
BRENT EDWARD WILLEFORD
09/10/2021
PE-2007020346
PROFESSIONAL ENGINEER

MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

MO. DEPARTMENT OF
NATURAL RESOURCES
LAND RECLAMATION
PROGRAM

Franklin Reclamation Project

FACILITY: NOT APPLICABLE

Bates County, Missouri

PROJECT # Y2202-01
SITE # N/A
FACILITY # N/A

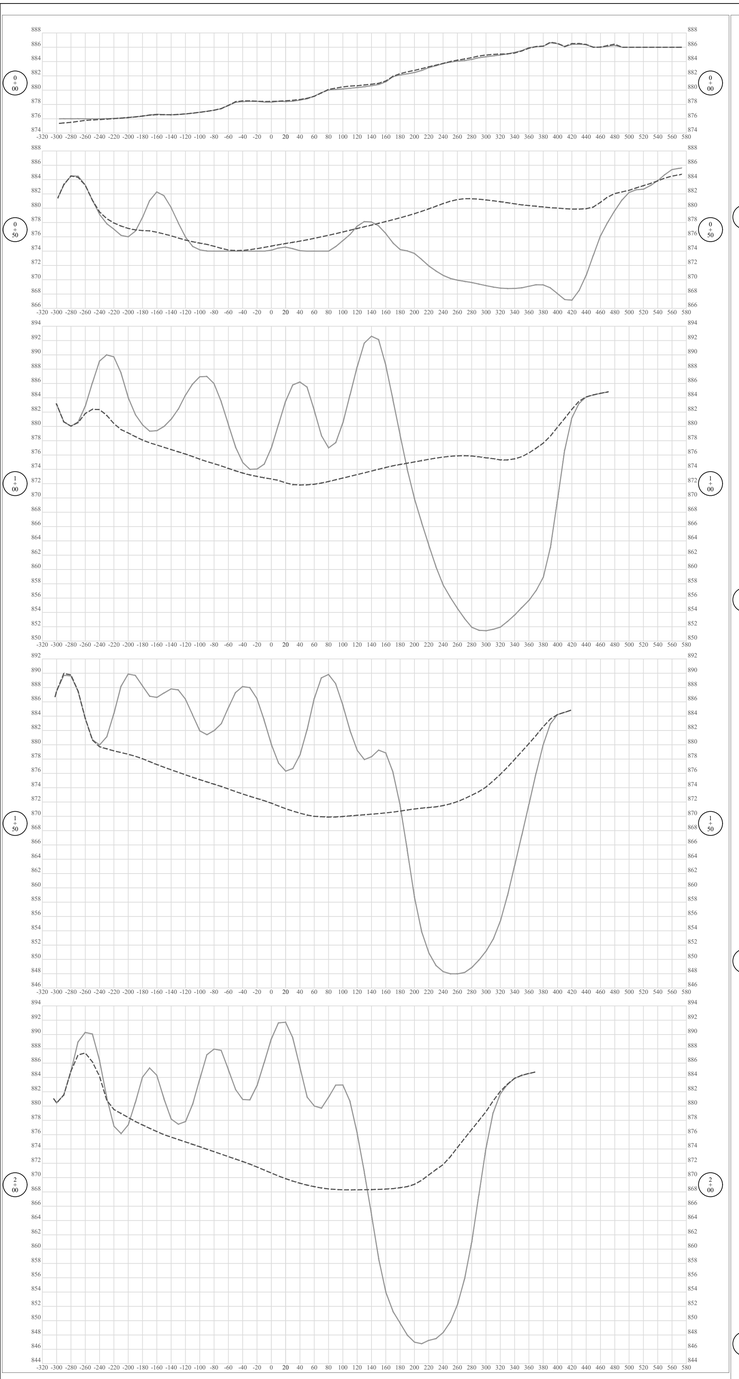
REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 10/15/2021

CAD DWG FILE:
DRAWN BY: BEW
CHECKED BY: LRP
DESIGNED BY: BEW

SHEET TITLE:
Plan View Areas 4 & 5
Alternate 1: Sections 312319 - NEUTRALIZATION OF ACID IMPOUNDMENTS and 329219 - SEEDING

SHEET NUMBER:
C-103

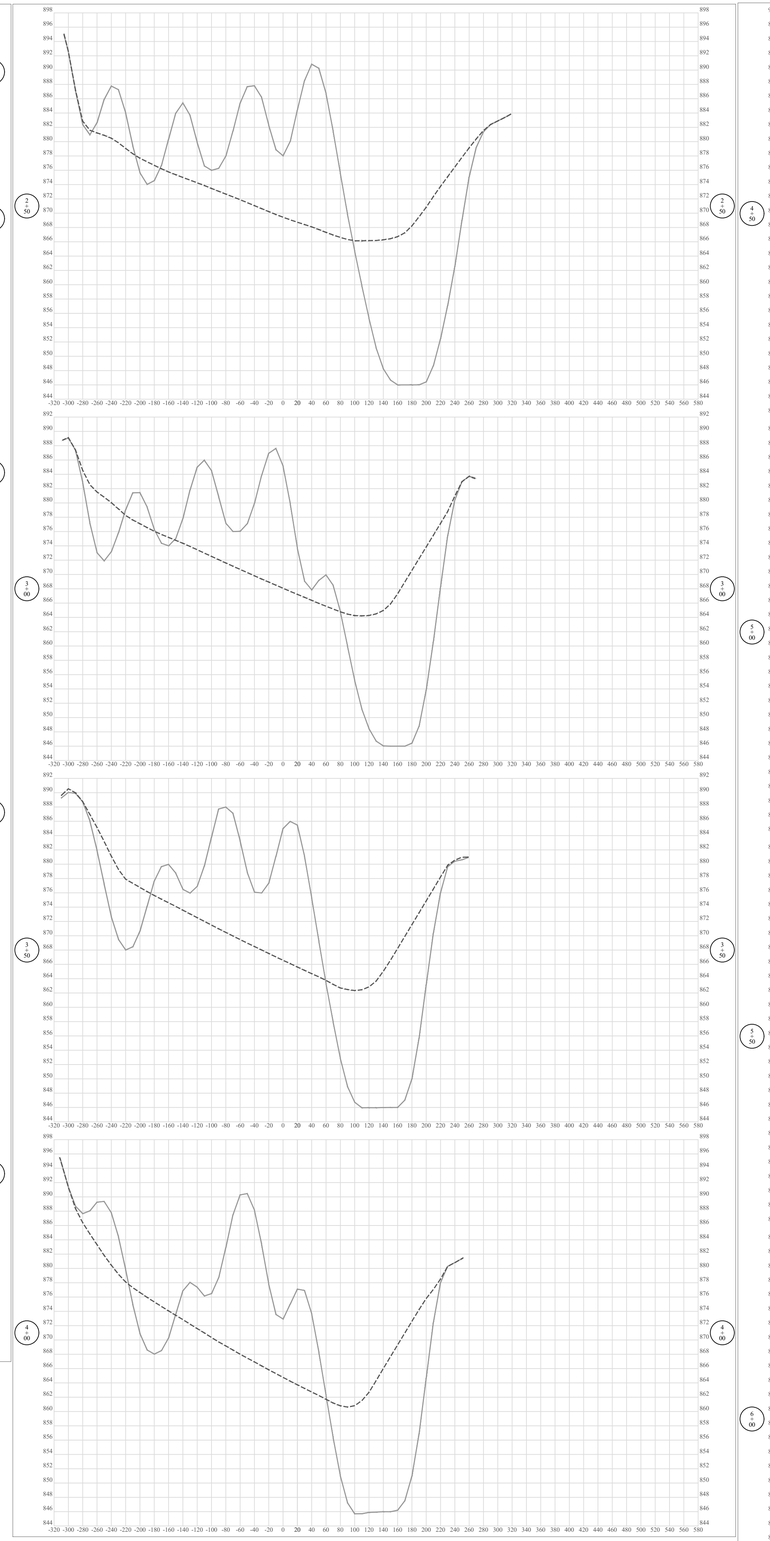
7 OF 12 SHEETS
10/15/2021



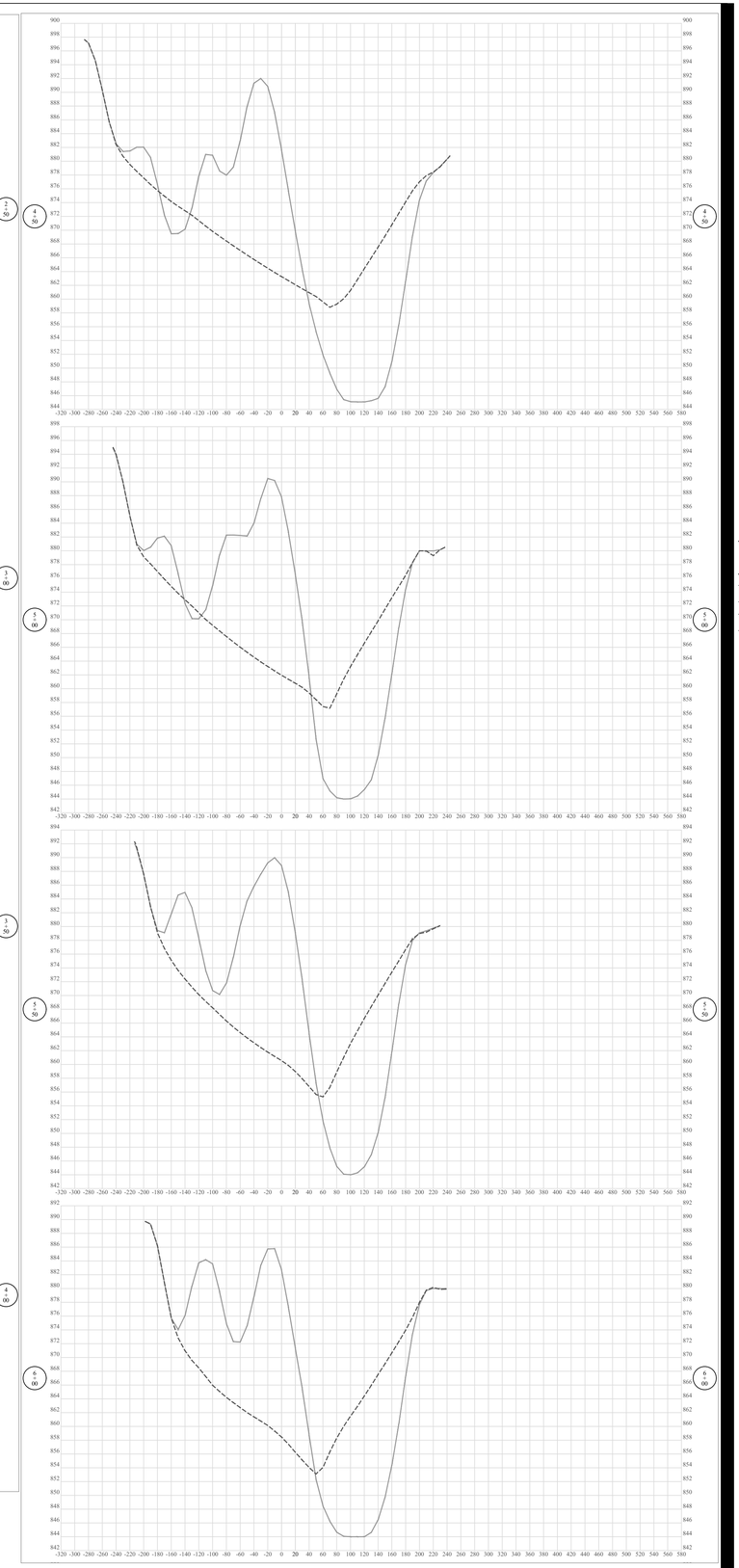
Baseline 1

Existing Grades ————————

Design Grades -



Baseline 1



Baseline 1

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

STATE OF MISSOURI
BRENT EDWARD WILLEFORD
09/10/2021
PE-2007020346
PROFESSIONAL ENGINEER

MISSOURI
DEPARTMENT OF NATURAL RESOURCES

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

MO. DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION PROGRAM

Franklin Reclamation Project

FACILITY: NOT APPLICABLE

Bates County, Missouri

PROJECT # Y2202-01
SITE # N/A
FACILITY # N/A

REVISION:
DATE:
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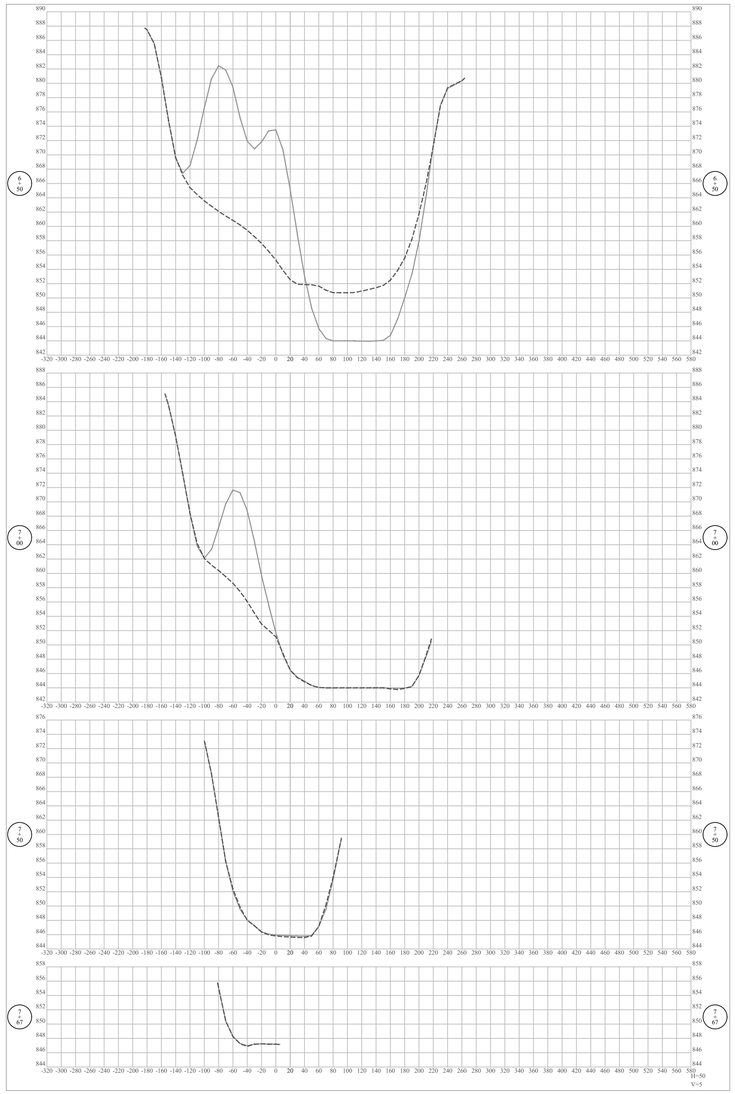
DATE:
REVISION:
DATE:
ISSUE DATE: 10/15/2021

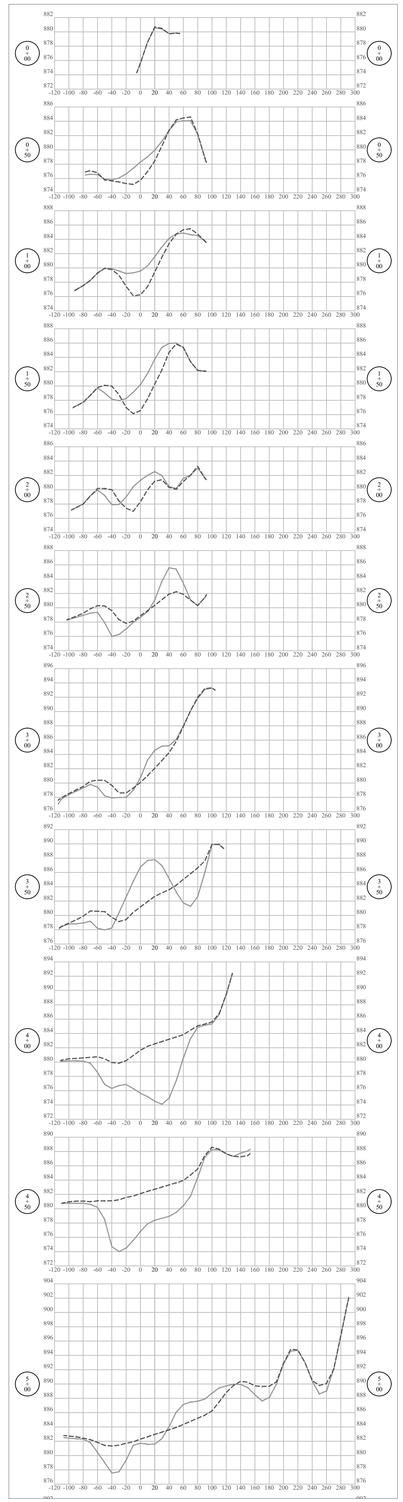
CAD DWG FILE:
DRAWN BY: BEW
CHECKED BY: LRP
DESIGNED BY: BEW

SHEET TITLE:
CROSS SECTIONS
BASELINE-1 Sta 0+00 to Sta 6+00

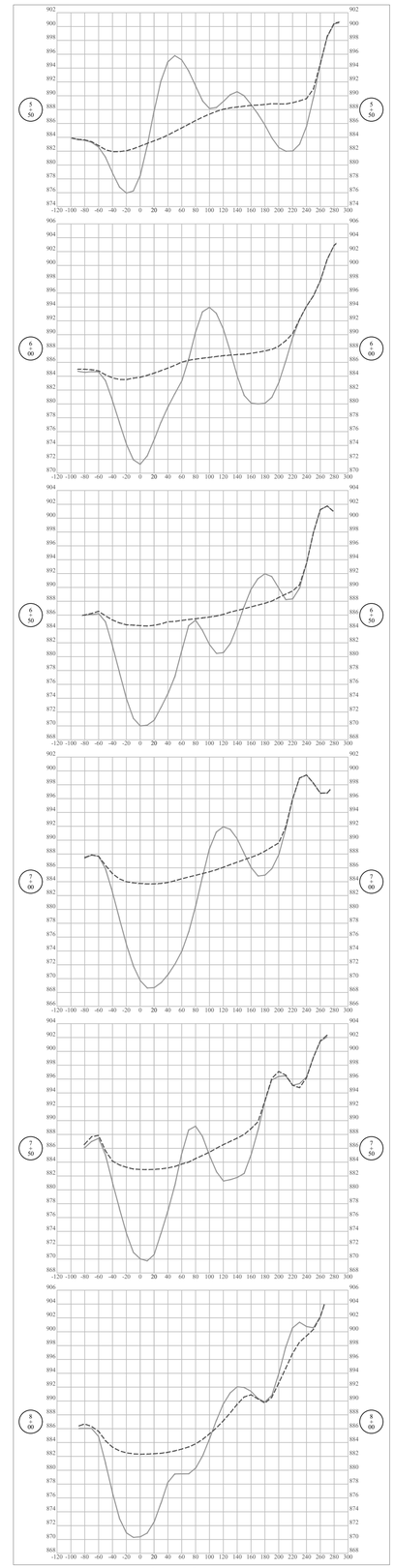
SHEET NUMBER:
C-104
8 OF 12 SHEETS
10/15/2021



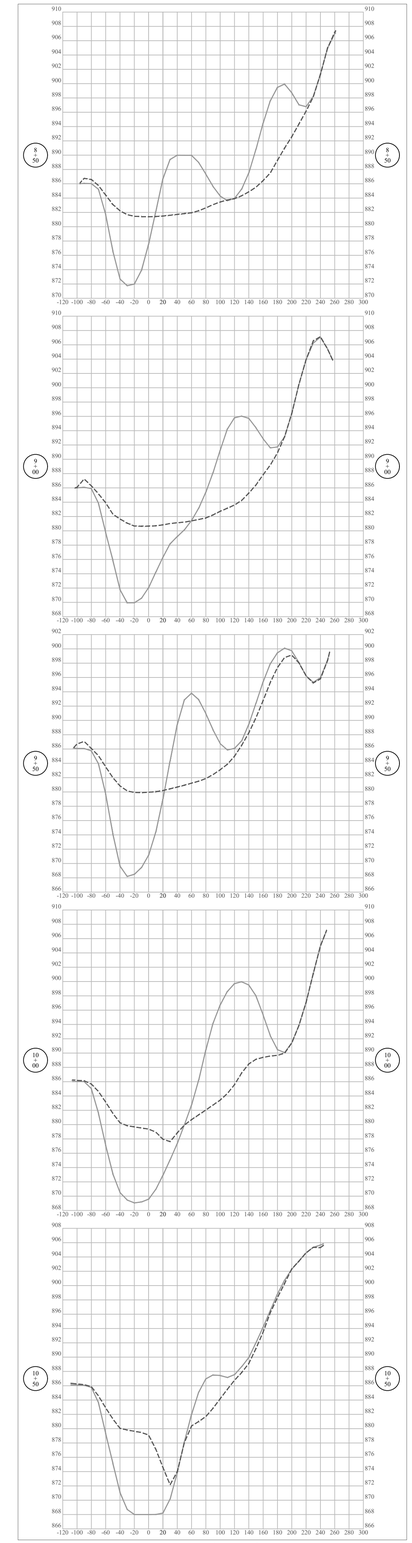
Baseline 1



Baseline 2



Baseline 2



Baseline 2

Existing Grades ————————

Design Grades ----------

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

STATE OF MISSOURI
BRENT EDWARD WILLEORD
09/10/2021
PE-2007020346
PROFESSIONAL ENGINEER

MISSOURI
DEPARTMENT OF NATURAL RESOURCES

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

MO. DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION PROGRAM

Franklin Reclamation Project

FACILITY: NOT APPLICABLE

Bates County, Missouri

PROJECT # Y2202-01
SITE # N/A
FACILITY # N/A

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 10/15/2021

CAD DWG FILE:
DRAWN BY: BEW
CHECKED BY: LRP
DESIGNED BY: BEW

SHEET TITLE:

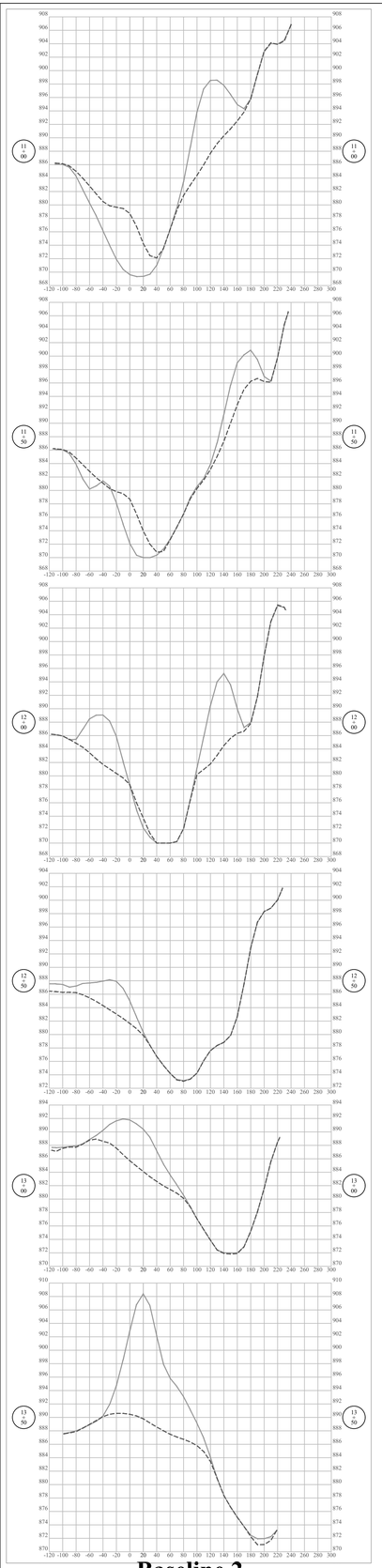
CROSS SECTIONS

BASELINE-1 Sta 6+50 to Sta 7+67
BASELINE-2 Sta 0+00 to Sta 10+50

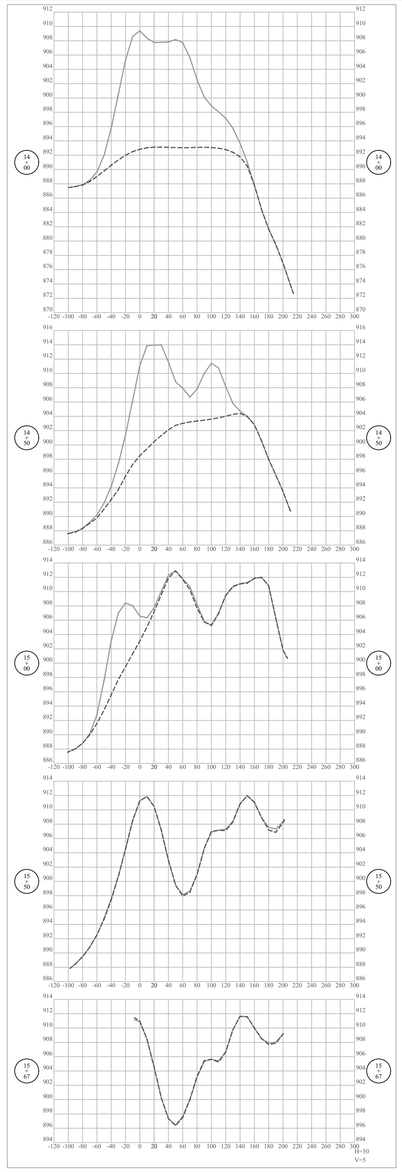
SHEET NUMBER:

C-105

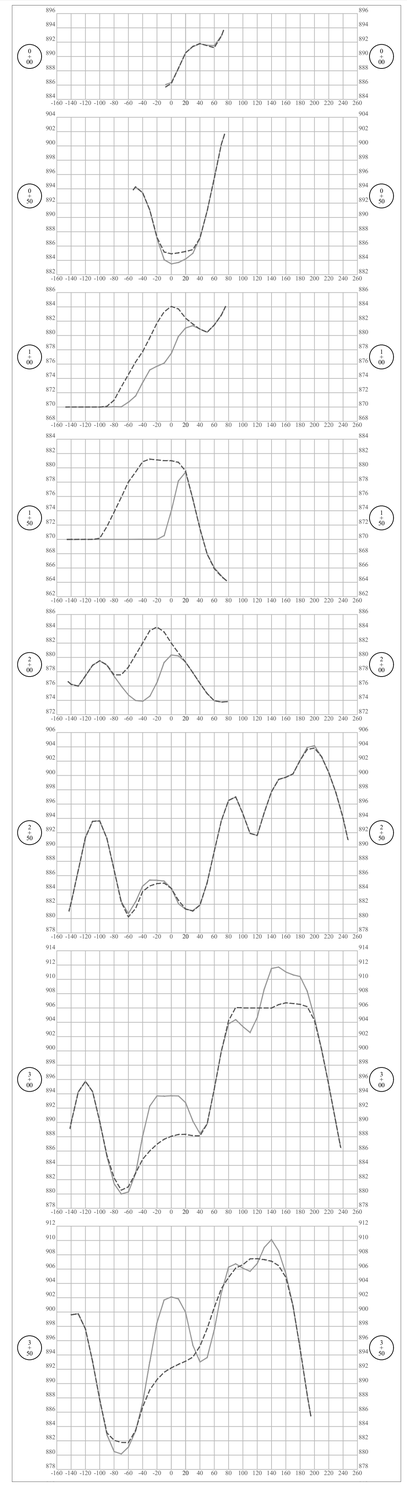
9 OF 12 SHEETS
10/15/2021



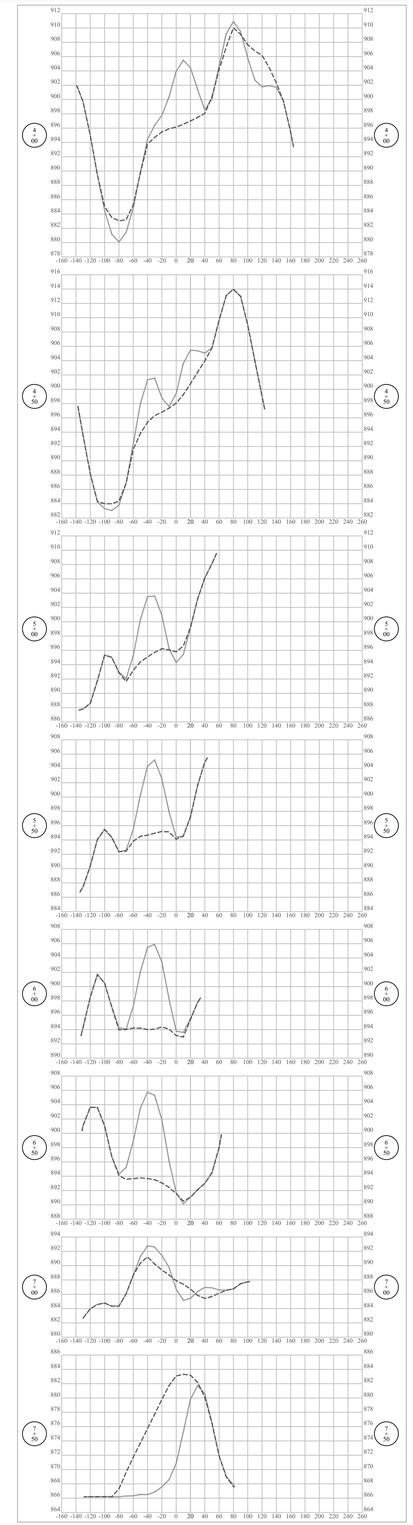
Baseline 2



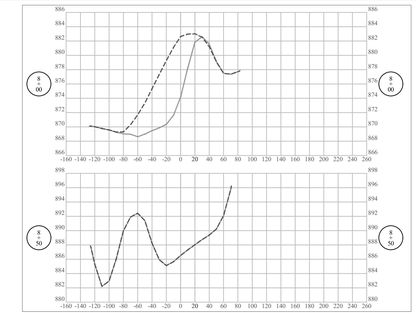
Baseline 2



Baseline 3



Baseline 3



Baseline 3

Existing Grades ————————

Design Grades -

STATE OF MISSOURI
MICHAEL L. PARSON,
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STATE OF MISSOURI
BRENT EDWARD WILLEFORD
09/10/2021
PE-2007020346
PROFESSIONAL ENGINEER

MISSOURI
DEPARTMENT OF NATURAL RESOURCES

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

MO. DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION PROGRAM

Franklin Reclamation Project

FACILITY: NOT APPLICABLE

Bates County, Missouri

PROJECT # Y2201-01
SITE # N/A
FACILITY # N/A

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 10/15/2021

CAD DWG FILE:
DRAWN BY: BEW
CHECKED BY: LRP
DESIGNED BY: BEW

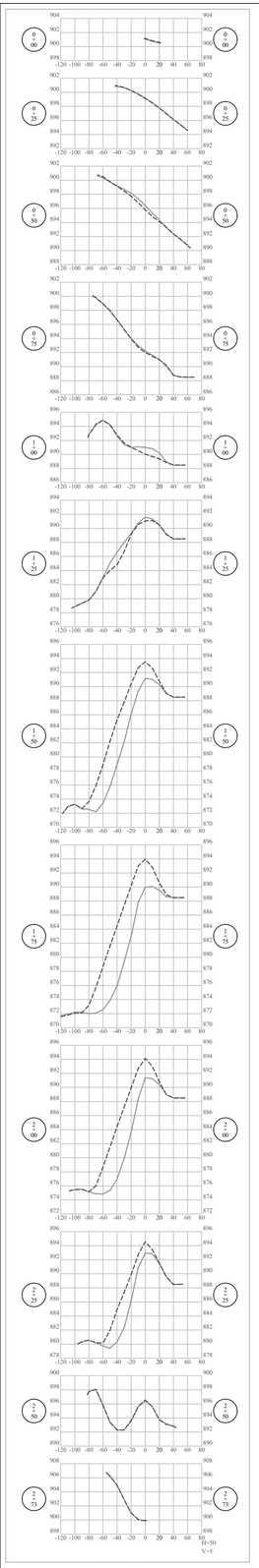
SHEET TITLE:

CROSS SECTIONS
BASELINE-2 Sta 11+00 to Sta 15+67
BASELINE-3 Sta 0+00 to Sta 8+92

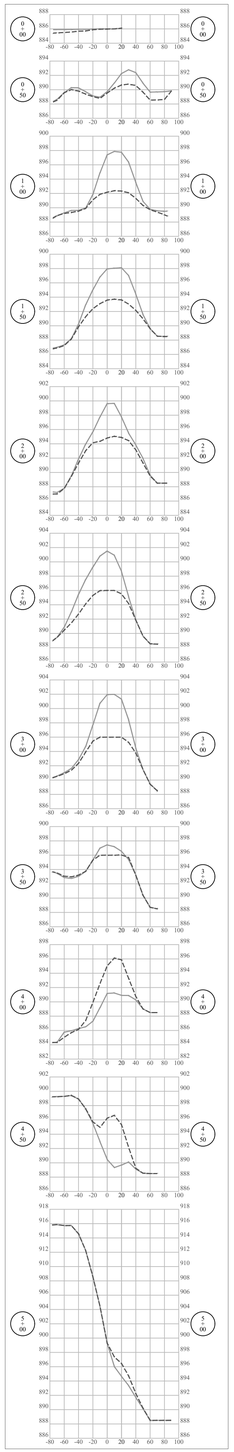
SHEET NUMBER:

C-106

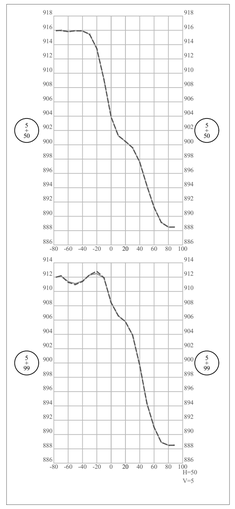
10 OF 12 SHEETS
10/15/2021



Baseline 4



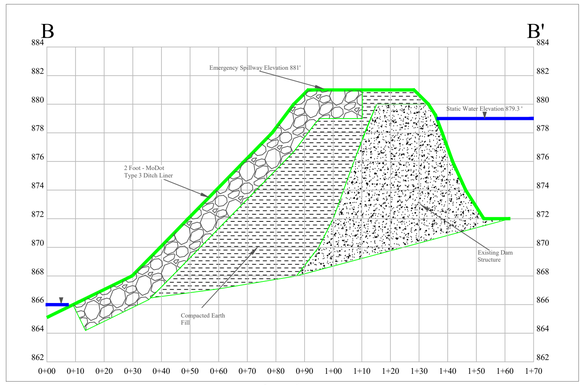
Baseline 5



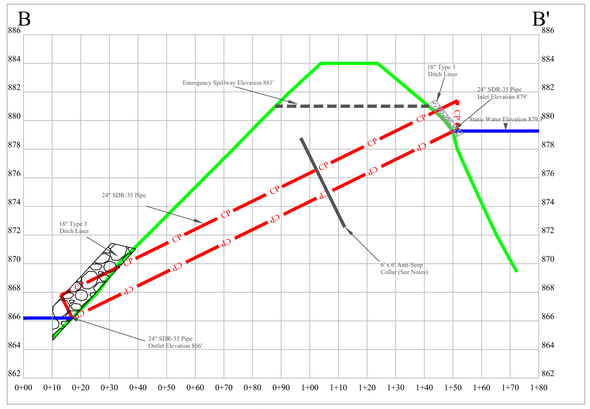
Baseline 5

Existing Grades ————————

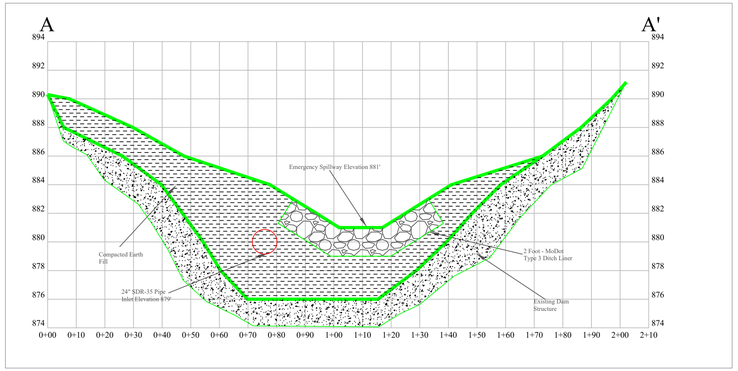
Design Grades -



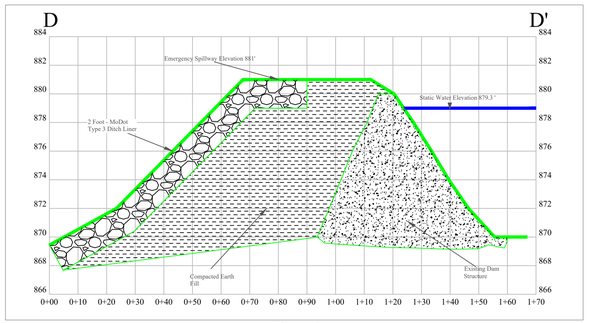
Dam 1



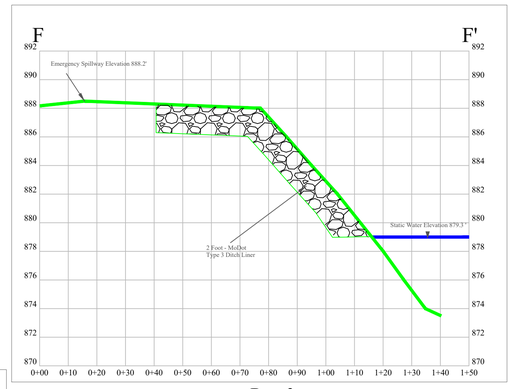
Dam 1



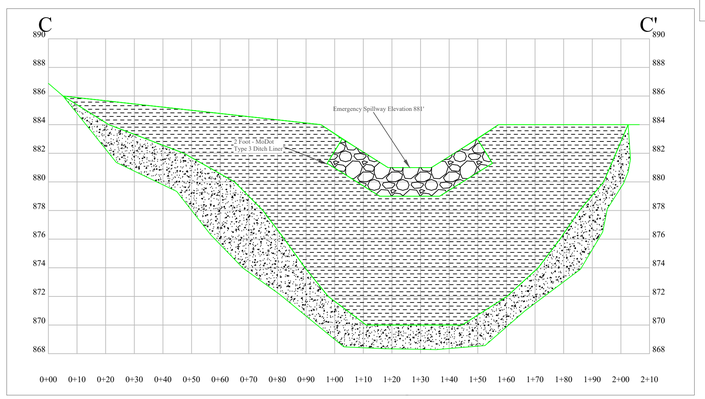
Dam 1



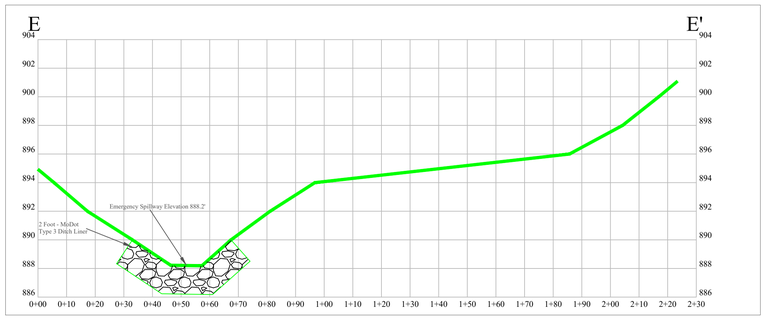
Dam 2



Dam 3



Dam 2



Dam 3

Notes:

1. All Earthen Fill placed on dams shall be placed in loose lifts not to exceed 8" in depth and compacted using a minimum of three passes with a Sheeps Foot Roller.
2. All areas of dams receiving earthen fill shall be cleared of vegetation.
3. All Earthen Fill placed on dams shall be free of all roots, logs, and other organic materials as approved by owners representative prior to being placed as fill.
4. All fill placed around 24" SDR-35 PVC Primary Spillway Pipe shall be manually compacted around the pipe in lifts not to exceed 8 inches. Manual compaction shall be achieved by Jumping Jack or other compaction equipment approved by Owners Representative.
5. All Fill Material placed around 6' x 6' HDPE Anti-Seep Collar shall be manually compacted in same manner as fill placed around 24" SDR-35 PVC Primary Spillway Pipe.

STATE OF MISSOURI
MICHAEL L. PARSON,
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STATE OF MISSOURI
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09/10/2021
PE-2007020346
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MISSOURI
DEPARTMENT OF NATURAL RESOURCES

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

MO. DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION PROGRAM

Franklin Reclamation Project

FACILITY: NOT APPLICABLE

Bates County, Missouri

PROJECT # Y2202-01
SITE # N/A
FACILITY # N/A

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 10/15/2021

CAD DWG FILE:
DRAWN BY: BEW
CHECKED BY: LRP
DESIGNED BY: BEW

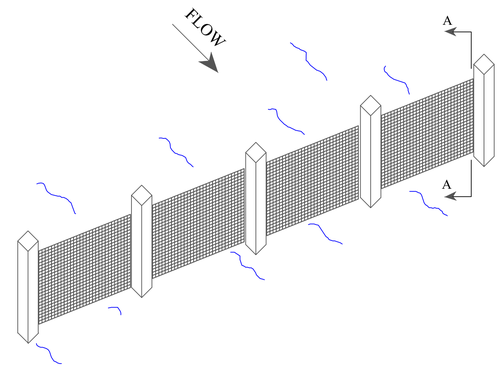
SHEET TITLE:
CROSS SECTIONS
BASELINE-4 Sta 0+00 to Sta 2+73
BASELINE-5 Sta 0+00 to Sta 5+99

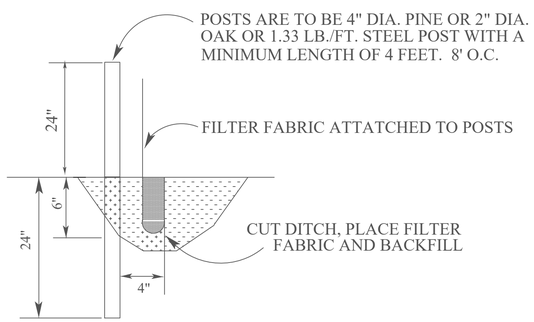
Details
Dams 1, 2, & 3

SHEET NUMBER:

C-107

11 OF 12 SHEETS
10/15/2021

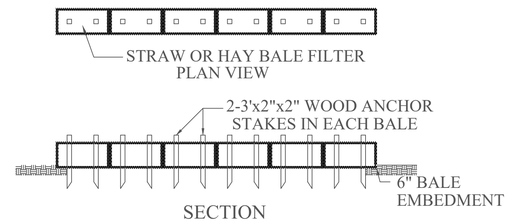




SECTION A-A

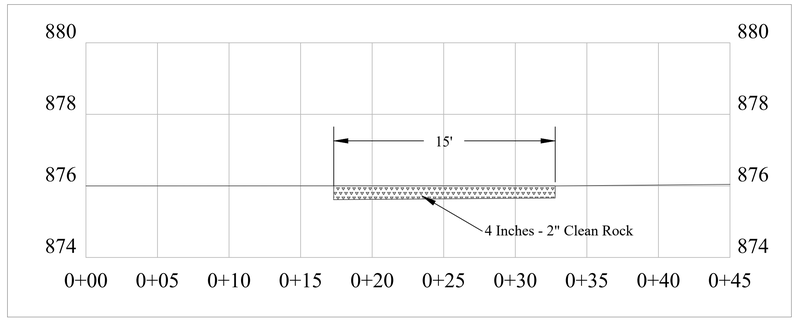
GEOTEXTILE SILT FENCE

NOT TO SCALE

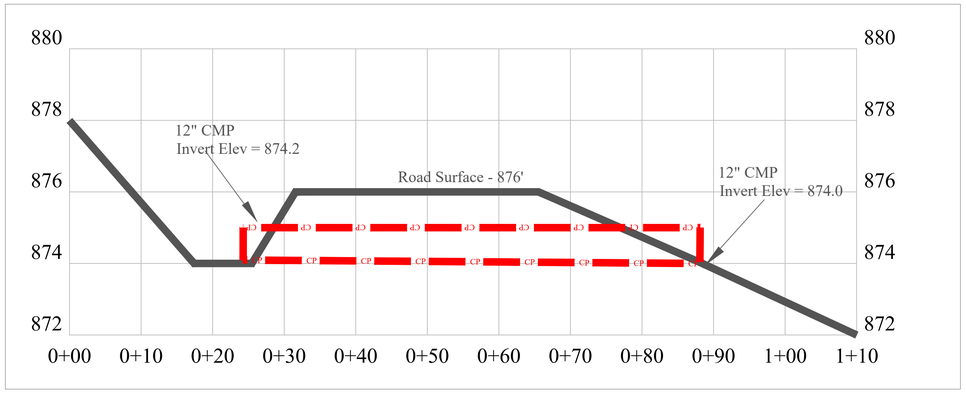


HAY OR STRAW BALE FILTER

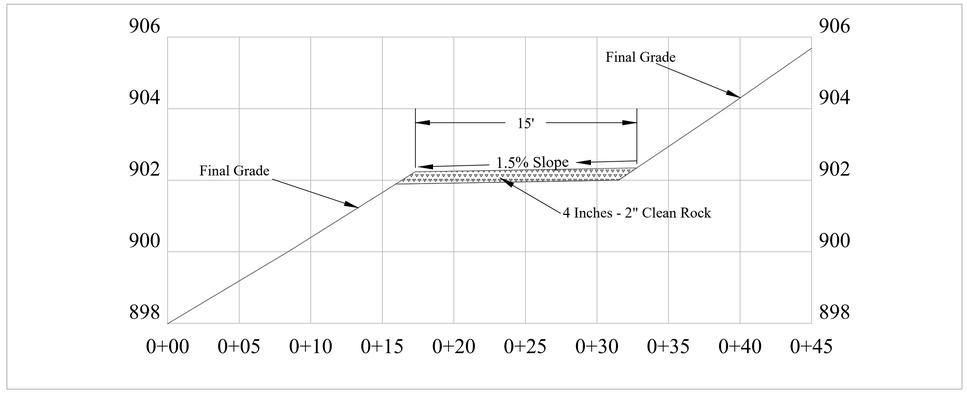
NOT TO SCALE



Detail - Rock Entrance (Typical)



Detail - 12 Inch CMP



Detail - Access Road (Typical)

STATE OF MISSOURI
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09/10/2021
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MISSOURI
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DESIGN AND CONSTRUCTION

MO. DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION PROGRAM

Franklin Reclamation Project

FACILITY: NOT APPLICABLE

Bates County, Missouri

PROJECT # Y2202-01
SITE # N/A
FACILITY # N/A

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 10/15/2021

CAD DWG FILE:
DRAWN BY: BEW
CHECKED BY: LRP
DESIGNED BY: BEW

SHEET TITLE:
Details
Silt Fence
Straw Bales
12 Inch CMP
Access Road

SHEET NUMBER:

D-100

12 OF 12 SHEETS
10/15/2021