GENERAL PROJECT NOTES:

1. TIE DIAGRAMS AND DESCRIPTIONS OF HORIZONTAL AND VERTICAL CONTROL POINTS ARE AVAILABLE BY REQUEST TO THE CONTRACTING OFFICER UPON CONTRACT AWARD.
2. ORIGINAL DATA COMPILED NAD 83 US SURVEY FEET. COORDINATES BASED ON NORTH DAKOTA STATE PLANE GRID SYSTEM, SOUTH ZONE.
3. ELEVATIONS REFER TO NAVD 88, GEOID12B.
4. ORIGINAL DATA FROM 2017 AND 2020 LIDAR AND 2022 FIELD SURVEY DATA. WITH THE EXCEPTION OF REACH SE-1, REACH SE-1B, REACH SE-2A, REACH SE-2B, I-29 GRADE RAISE, RED RIVER STRUCTURE, AND UTILITY RELOCATIONS (WP 47B AND E) WHICH ARE TAKEN FROM AS-BUILT AND DESIGN FILES.
5. THE COMBINED FACTOR (CF) SHALL BE USED TO CONVERT THE GRID COORDINATES SHOWN IN THE PLANS TO GROUND COORDINATES FOR PROPER LAYOUT OF THE PROJECT. DIVIDE GRID COORDINATES BY THE CF TO OBTAIN GROUND COORDINATES.
6. THE INFORMATION ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UTILITIES MAY NOT BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THE DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE TO THESE UTILITIES.
7. UNDER THE LIMITS OF IMPERVIOUS FILL, GRAVEL AND ROAD EMBANKMENTS MUST BE REMOVED TO MATCH THE ADJACENT GROUND ELEVATION AT TOE OF ROAD EMBANKMENT.
8. STRIPPING LIMITS ARE AS INDICATED ON THE PLAN SHEETS. TOPSOIL STRIPPING QUANTITIES ESTIMATED ASSUMING A TOPSOIL DEPTH OF 18"; CONTRACTOR SHALL REFER TO SOIL BORING LOGS FOR ESTIMATED TOPSOIL DEPTH WITHIN THE PROJECT FOOTPRINT.
9. EXCAVATION FOR DITCHES SHALL BE LIMITED TO ELEVATIONS SHOWN IN THE PROFILES AND SECTIONS. IF ADDITIONAL MATERIAL IN REQUIRED, MATERIAL SHALL BE TAKEN FROM THE AREA SHOWN AS 'DASHED' IN IN THE BORROW DITCH SECTIONS.
10. PROVIDE ZONE 1 SEEDING TO ALL DISTURBED AREAS NOT OTHERWISE IDENTIFIED ON THE PLAN AS REQUIRING SEEDING. (1)
11. "VOLUME 2" REFERS TO PLANS TITLED FMM SOUTHERN EMB. REACH SE-3 CASS COUNTY ROAD 81, UNDER SEPARATE COVER.
12. FOR VOLUME 1, EMBANKMENTS WILL BE SEEDED WITH ZONE 1 SEED MIX, DITCHES WILL BE SEEDED WITH ZONE 2 SEED MIX UNLESS OTHERWISE NOTED. SEE SPECIFICATIONS FOR SEED MIX INFORMATION. (1)

ABBREVIATIONS

* UNLESS OTHERWISE NOTED ON EACH SHEET

APPROX	APPROXIMATE	L/W	LANDWARD
ALT W/ ALUM	ALTERNATE WITH ALUMINUM	MAX	MAXIMUM
ABUT	ABUTMENT	MIN	MINIMUM
ALTER	ALTERNATING	MIRR	MIRRORED
BITUM	BITUMINOUS	MISC	MISCELLANEOUS
BOT	BOTTOM	MECH	MECHANICAL
C/L	CENTER LINE	NF	NEAR FACE
C&G	CURB & GUTTER	NO	NUMBER
CLR	CLEAR	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	OF	OUTSIDE FACE
CMP	CORRUGATED METAL PIPE	OC	ON CENTER
CONC	CONCRETE	O/S	OFFSET
CONN	CONNECTION	PL	PLATE
DIA	DIAMETER	PLAT	PLATFORM
DS	DOWNSTREAM	RT	RIGHT
DWG	DRAWING	R/W	RIVERWARD
EF	EACH FACE	SAN	SANITARY
EJ	EXPANSION JOINT	SPEC	SPECIFICATIONS
EL	ELEVATION	SST OR S.S	STAINLESS STEEL
ELEV	ELEVATION	T&B	TOP AND BOTTOM
EST	ESTIMATED	TRM	TURF REINFORCEMENT MAT
EW	EACH WAY	TYP	TYPICAL
EXIST	EXISTING	UNO	UNLESS NOTED OTHERWISE
FF	FAR FACE	UGND	UNDERGROUND
FES	FLARED END SECTION	US	UPSTREAM
GALV	GALVANIZED	W	WIDTH
HT	HEIGHT	WM	WATER MAIN
IF	INSIDE FACE		
LG	LONG		
LT	LEFT		

GENERAL CROSS-REFERENCING SYMBOLS

D5 — DETAIL/SECTION — SUPPLEMENTAL INFORMATION — SCALE:
SECTION/DETAIL TITLE ON SAME DRAWING (CENTERED UNDER SECTION/DETAIL)

D5 / C-102 — DETAIL/SECTION — SUPPLEMENTAL INFORMATION — SCALE:
SECTION/DETAIL TITLE ON ANOTHER DRAWING (CENTERED UNDER SECTION/DETAIL)

TOP FRONT SIDE
ELEVATION SECTION
VIEW SUBTITLE (CENTERED UNDER EACH VIEW)

D5 — SECTION CUT W/ VIEW SHOWN ON SAME DRAWING

D5 / C-302 — SECTION CUT W/ VIEW SHOWN ON ANOTHER DRAWING

A — DETAIL SYMBOL W/ VIEW SHOWN ON SAME DRAWING

A / C-501 — DETAIL SYMBOL W/ VIEW SHOWN ON ANOTHER DRAWING

GENERAL LEGEND

- P.I. POINT
- SAN — EXISTING SANITARY SEWER
- SD — EXISTING STORM SEWER
- W — WATERMAIN
- E — EXISTING OVERHEAD P0WER
- E — EXISTING UNDER-GROUND DUCT
- EXISTING GAS
- EXISTING COMMUNICATION
- SIGN
- RIPRAP
- BEDDING
- 97-41M — BORING LOCATION AND NUMBER
- ## — 1 DIMENSIONAL PROJECT CONTROL POINT
- ## — 3 DIMENSIONAL PROJECT CONTROL POINT
- WORK LIMITS
- FILL
- CUT
- SHEET ID X-000 — DWG OUTLINE AND NUMBER
- DAM EMBANKMENT

ELEVATION DATUM (VERTICAL CONTROL): NAVD 88 GEOID:12B

COORDINATE SYSTEM (HORIZONTAL CONTROL): NAD 83 (2011) NORTH DAKOTA SOUTH ZONE,U.S. SURVEY FT. COMBINED FACTOR (CF): 0.999956656

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
1	DRAWING REISSUED WITH AMENDMENT NO. 4	2024-11-07

DESIGNED BY: P. MORKEN
DRAWN BY: P. MORKEN
CHECKED BY: B. SPRANG
SUBMITTED BY: K. MCGARTH
SEE: ANSI D
ISSUE DATE: 3 SEPT 2024
SOLICITATION NO.: W912ES23B0016
CONTRACT NO.:
AS-BUILT NO.:
FILE NAME: FMMSE3_G-004xxx.ddn

U.S. ARMY CORPS OF ENGINEERS
ST. PAUL DISTRICT
ST. PAUL, MINNESOTA

FMM SOUTHERN EMBANKMENT REACH SE-3
RED RIVER OF THE NORTH RIVER BASIN
FARGO-MOORHEAD FLOOD RISK MANAGEMENT
FARGO, ND

GENERAL NOTES AND LEGEND

SHEET ID
G-004

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