pw:\\PWINT-MPC.EIS.DG.USACE.ARMY.MIL:CENWK - Kansas City District\Documents\CW\TurkeyCr\505229_Upper_Turkey_Creek\6.0 Engineering-Design\6.1 Drawings\CAD_BIM\

US Army Corps
of Engineers®
KANSAS CITY DISTRICT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.:
ISSUE DATE: MARCH 2026

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	ISSUE DATE:
PDT	MARCH 2026
DRAWN BY:	SOLICITATION NO.:
R. CAUTHEN	SEE COVER SHEET
CHECKED BY:	CONTRACT NO.:
P. O'CONNELL	
SUBMITTED BY:	FILE NO.:
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SIZE:	FILE NAME:
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U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

COVER

SHEET ID
G-001

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U.S. ARMY CORPS OF ENGINEERS
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601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

INDEX

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G-002

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TERMS AND ABBREVIATIONS

@	AT
ANGLE	ANGLE
APPROX	APPROXIMATE
ASPH	ASPHALT
AVE	AVENUE
AVG	AVERAGE
B&B	BALL AND BURLAP
B.M.	BENCH MARK
BDRY	BOUNDARY
BLDG	BUILDING
BOS	BOTTOM OF STEEL
BTM	BOTTOM
CL	CENTER LINE
CLSM	CONTROLLED LOW STRENGTH MATERIAL
C.I.	CAST IRON
C.O.E.	CORPS OF ENGINEERS
C.O.R.	CONTRACTING OFFICER REPRESENTATIVE
CAP	CAPACITY
CB	CATCH BASIN
CFS	CUBIC FEET PER SECOND
CI	CURB INLET
CLF	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
COMM	COMMUNICATIONS
CONC	CONCRETE
CP	CONTROL POINT
CU YD	CUBIC YARDS
DB	DRAIN BASIN
DEG	DEGREE
DI	DROP INLET
DIA OR Ø	DIAMETER
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DTL	DETAIL
DGN	DRAWING
DWLS	DOWELS
E	ELECTRIC
EL	ELEVATION (GRADE OR BLDG)
EOP	EDGE OF PAVEMENT
EOR	ENGINEER OF RECORD
EQ	EQUAL
ES	END SECTION
EW	EACH WAY
E/EX./EXIST	EXISTING
FH	FIRE HYDRANT
FI	FIELD INLET
FIG	FIGURE
FFE	FINISHED FLOOR ELEVATION
FL	FLOW LINE
FM	FORCE MAIN
FT	FEET
FV	FIELD VERIFY
G	GAS
G.V.	GATE VALVE
GA	GAUGE
GPR	GROUND PENETRATING RADAR
GRND	GROUND
GRVL	GRAVEL
GV	GAS VALVE
HT	HEIGHT
HYD	HYDRAULIC
I.D.	INSIDE DIAMETER
IN	INCH
INV	INVERT
IS	INDUSTRIAL SEWER
LBS	POUND
LGTH	LENGTH
LS	LOW STEEL
ME	MATCH EXISTING
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MON	MONUMENT
MW	MONITORING WELL
N	NORTH/NEW
NIC	NOT IN CONTRACT
NO.	NUMBER
OC	ON CENTERS
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OHE	OVERHEAD ELECTRIC
P	POLE
PD	PAVEMENT DRAIN
PE	PERMANENT EASEMENT
PERF	PERFORATED
PIV	POST INDICATOR VALVE
PL	POWER LINE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
PP	POWER POLE
PROP	PROPOSED
PSF	POUNDS/SQUARE FOOT
PSI	POUNDS/SQUARE INCH
PT	POINT
RAD OR R	RADIUS
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REINF	REINFORCEMENT
REQ'D	REQUIRED
REV	REVISIONS
ROW	RIGHT OF WAY
S	SOUTH
SW	SIDEWALK
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SECT	SECTION
SP	SPACING
SPEC	SPECIFICATIONS
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
STA	STATION
STD	STANDARD
TAB	TOP AND BOTTOM
TEL	TELEPHONE
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TP	TEST PIT
TYP	TYPICAL
U.S.	UNITED STATES
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UGT	UNDERGROUND TELEPHONE
UKN	UNKNOWN
UTY	UTILITY
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VOL	VOLUME
W	WEST
W/	WITH
W/O	WITHOUT
WL	WATERLINE
WMH	WATER MANHOLE
WV	WATER VALVE
WWF	WELDED WIRE FABRIC
YD	YARD

SITE PLAN LINE STYLE LEGEND

- RIGHT OF WAY (R/W)
- CONSTRUCTION CONTRACT LIMIT
- PROPERTY LINE
- FLOODWALL STEM AND FOOTER
- FLOODWALL EXCAVATION LIMITS
- LEVEE CENTERLINE
- LEVEE TOE
- DITCH CENTERLINE
- ABANDON UTILITY LINE
- DEMOLITION UTILITY LINE
- SANITARY WASTE (SAN)
- STORM DRAIN (SD)
- GAS (HIGH PRESSURE) (HG)
- GAS (LOW PRESSURE) (G)
- COMMUNICATION (COMM)
- FIBER OPTICS (FO)
- TELEPHONE (T)
- WATER LINE (W)
- SANITARY SEWER (SS)
- CULVERT - DRAINAGE PIPE (CP)
- ELECTRICAL PRIMARY (E)
- ELECTRICAL SECONDARY (ES)
- FENCE
- TREE LINE

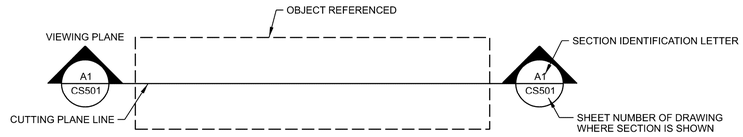
SITE PLAN SYMBOL LEGEND

- HORIZONTAL CONTROL POINT
- HORIZONTAL VERTICAL CONTROL POINT
- VERTICAL CONTROL POINT
- BORING DRILLED
- BORING UNDRILLED
- PIEZOMETER
- MONITORING WELL (MW)
- COMMUNICATINON VAULT (C)
- ELECTRICAL VAULT (E)
- NATURAL GAS VAULT (G)
- TELEPHONE VAULT (T)
- FIRE HYDRANT
- UTILITY POLE
- GUY WIRE
- TRANSFORMER (POLE MOUNTED)
- WATER HANDHOLE (W)
- WATER MANHOLE (W)
- WATER METER (W)
- SANITARY MANHOLE (S)
- SANITARY METER (S)
- SEPTIC TANK (ST)
- SANITARY CLEANOUT (CO)
- STORM DRAINAGE MANHOLE (D)
- NATURAL GAS SHUTOFF (GV)
- NATURAL GAS MANHOLE (G)
- NATURAL GAS METER (G)
- ELECTRICAL HANDHOLE (E)
- MANHOLE ELECTRICAL (E)
- COMMUNICATION MANHOLE (C)
- TELEPHONE MANHOLE (T)

MATERIAL SYMBOL LEGEND

- COMPACTED EARTH
- ROCK
- RIPRAP
- CONCRETE
- FILTRATION BED
- EXISTING LIMESTONE BLOCK WALL
- EXISTING TRAIL
- PROPOSED TRAIL

SHEET REFERENCE SYMBOL LEGEND



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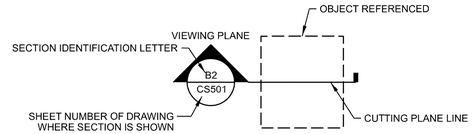

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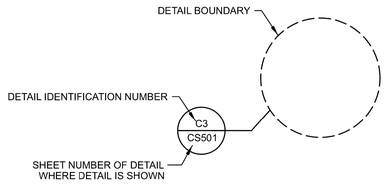

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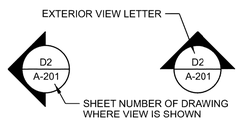

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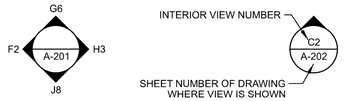
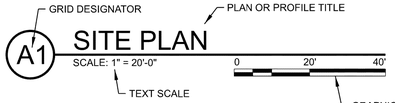


INTERIOR ELEVATIONS WITH MULTIPLE VIEWS

INTERIOR ELEVATION

SECTION TITLE

DETAIL TITLE



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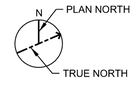

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CONTRACT NO.:
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DESIGNED BY: PDT
DRAWN BY: R. CAUTHEN
CHECKED BY: P. O'CONNELL
SUBMITTED BY:
SIZE: ANSI D
FILE NAME: UTC_G-003.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

GENERAL NOTES AND LEGEND

SHEET ID
G-003

pw:\\PAINT-WPC.EIS.DS.USACE.ARMY.MIL:CENWK - Kansas City District\Documents\CW\TurkeyCr\505229_Upper_Turkey_Creek\6.0 Engineering-Design\6.1 Drawings\CAD_BIM\

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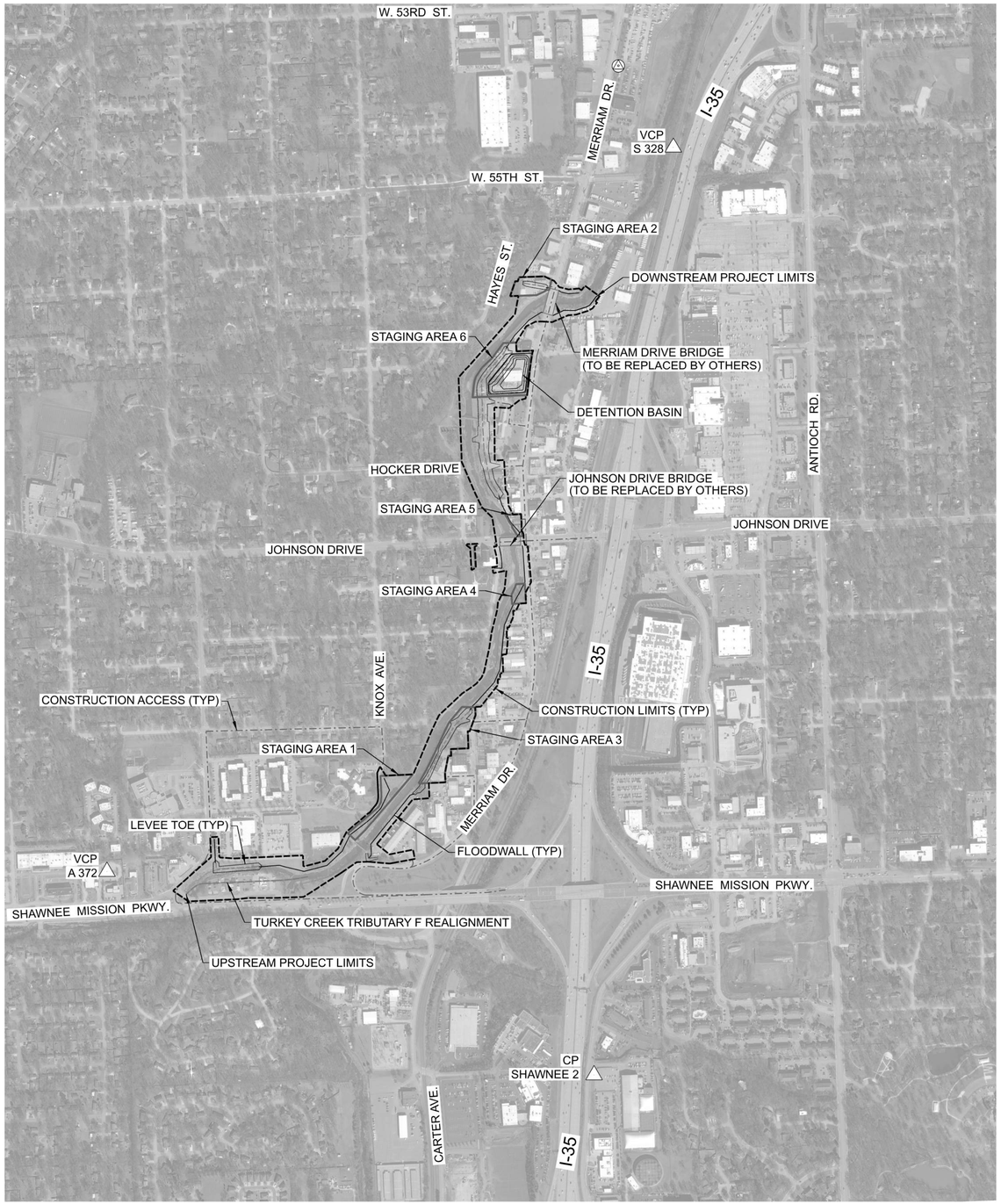

PLAN NORTH

A1 LOCATION MAP AND CONTRACTOR ACCESS
SCALE: NTS

GENERAL SHEET NOTES

1. STAGING STORAGE AND LAYDOWN AREAS ARE WITHIN THE CONSTRUCTION LIMITS AS SHOWN ON THE PLANS.
2. CONTRACTOR MUST RESTORE STAGING AND ACCESS AREAS AFTER CONSTRUCTION.
3. VERTICAL CONTROL POINT A 372 (VCP A 372) COORDINATES:
   N: 2,247,500.81
   E: 265,296.00 (KANSAS STATE PLANE NORTH)
   ELEV: 948.14 (NAVD88)
4. VERTICAL CONTROL POINT S 328 (VCP S 328) COORDINATES:
   N: 2,252,006.78
   E: 271,588.27 (KANSAS STATE PLANE NORTH)
   ELEV: 898.96 (NAVD88)
5.. CONTROL POINT SHAWNEE 2 (CP SHAWNEE 2) COORDINATES:
   N: 2,251,815.57
   E: 263,968.45 (KANSAS STATE PLANE NORTH)

LEGEND

- CONSTRUCTION ACCESS ROUTE
- CONSTRUCTION CONTRACT LIMIT
- STAGING AREA
- FLOODWALL
- LEVEE TOE
- LEVEE CENTERLINE

PLAN NORTH

A7 VICINITY MAP
SCALE: NTS

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: PDT	ISSUE DATE: MARCH 2026
DRAWN BY: R. CAUTHEN	SOLICITATION NO.: SEE COVER SHEET
CHECKED BY: P. O'CONNELL	CONTRACT NO.:
SUBMITTED BY: TBD	FILE NO.:
SIZE: ANSI D	FILE NAME: UTC_G-004.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

LOCATION AND VICINITY MAPS AND CONTRACTOR ACCESS

SHEET ID
G-004

pw:\\PWINT-WPC.EIS.DS.USACE.ARMY.MIL:CENWK - Kansas City District\Documents\CW\TurkeyCr\505229_Upper_Turkey_Creek\Key_Creek\6.0 Engineering-Design\6.1 Drawings\CAD_BIM\

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GENERAL SHEET NOTES

1. UPPER TURKEY CREEK BASELINE ALIGNMENT IS FOR REFERENCE ONLY. ALIGNMENT STATIONING DOES NOT CORRESPOND TO RIVER MILES OR HEC RAS MODELS.

PI ID	PI STA	PC STA	PT STA	BEARING	DISTANCE (FT)	NORTHING	EASTING	DELTA	RADIUS (FT)	LENGTH (FT)	TANGENT (FT)
POB	0+00.00			N 48° 34' 26.4" E	129.54	265,354.659	2,248,750.190				
PI	1+29.54	0+85.23	1+70.40	N 87° 36' 39.6" E	707.74	265,440.372	2,248,847.323	39.04	125.00	85.17	44.31
PI	8+33.83	7+31.69	9+35.53	N 78° 33' 43.2" E	121.38	265,469.870	2,249,554.444	9.05	1290.62	203.84	102.13
POE	9+54.78					265,493.941	2,249,673.416				

D1 TRIBUTARY F ALIGNMENT DATA
SCALE: NTS

UPPER TURKEY CREEK (UTC) BASELINE ALIGNMENT DATA											
PI ID	PI STA	PC STA	PT STA	BEARING	DISTANCE (FT)	NORTHING	EASTING	DELTA	RADIUS (FT)	LENGTH (FT)	TANGENT (FT)
POB	0+00.00			N 48° 34' 26.4" E	246.26	265,354.66	2,248,750.19				
PI	2+46.26	2+06.44	2+83.88	N 81° 26' 27.6" E	259.73	265,517.60	2,248,934.84	32.87	135.00	77.44	39.82
PI	5+03.80	4+56.32	5+51.18	N 87° 37' 04.8" E	180.30	265,556.25	2,249,191.68	6.18	880.00	94.87	47.48
PI	6+84.00	6+58.01	7+09.31	S 69° 46' 30.0" E	244.28	265,563.75	2,249,371.82	22.61	130.00	51.30	25.99
PI	9+27.60	8+99.24	9+54.51	N 78° 33' 43.2" E	213.56	265,479.30	2,249,601.03	31.66	100.00	55.26	28.36
PI	11+39.71	10+91.30	11+87.39	N 61° 21' 18.0" E	143.74	265,521.65	2,249,810.35	17.21	320.00	96.10	48.41
PI	12+82.72	12+15.88	13+48.77	N 46° 07' 37.2" E	238.95	265,590.55	2,249,936.50	15.23	500.00	132.90	66.84
PI	15+20.88			N 38° 13' 15.6" E	317.39	265,756.16	2,250,108.75				
PI	18+38.27	15+98.37	20+78.13	N 40° 03' 10.8" E	312.30	266,005.51	2,250,305.12	1.83	15000.00	479.76	239.90
PI	21+50.52	21+00.21	22+00.15	N 23° 41' 34.8" E	470.82	266,244.56	2,250,506.08	16.36	350.00	99.94	50.31
PI	26+20.66	25+16.59	27+21.79	N 47° 12' 25.2" E	533.04	266,675.69	2,250,695.27	23.51	500.00	205.20	104.07
PI	31+50.77	29+74.50	33+08.69	N 2° 09' 14.4" E	360.42	267,037.81	2,251,086.42	45.05	425.00	334.19	176.27
PI	34+92.84			N 19° 40' 26.4" E	412.22	267,397.98	2,251,099.96				
PI	39+05.06	38+60.10	39+48.55	N 5° 39' 50.4" W	302.79	267,786.14	2,251,238.75	25.34	200.00	88.45	44.96
PI	42+06.38	40+04.32	43+96.12	N 40° 12' 03.6" W	300.36	268,087.45	2,251,208.86	34.54	650.00	391.80	202.06
PI	44+94.42			N 21° 13' 12.0" W	372.33	268,316.86	2,251,014.99				
PI	48+66.76	47+77.98	49+53.71	N 1° 04' 58.8" W	575.08	268,663.94	2,250,880.23	20.14	500.00	175.73	88.78
PI	54+40.01	53+44.33	55+27.09	N 40° 48' 03.6" E	696.16	269,238.93	2,250,869.36	41.88	250.00	182.76	95.68
PI	61+27.57	60+69.29	61+84.80	N 59° 42' 32.4" E	176.29	269,765.91	2,251,324.26	18.91	350.00	115.50	58.28
PI	63+02.80	62+56.17	63+43.44	S 70° 17' 20.4" E	249.63	269,854.82	2,251,476.48	50.00	100.00	87.27	46.63
PI	65+46.44	63+88.49	66+55.87	N 33° 06' 46.8" E	247.62	269,770.63	2,251,711.48	76.60	200.00	267.38	157.95
POE	67+45.54					269,978.03	2,251,846.75				

A1 UPPER TURKEY CREEK BASELINE ALIGNMENT DATA
SCALE: NTS

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: PDT
DRAWN BY: M. VANLANDINGHAM
CHECKED BY: P. O'CONNELL
SUBMITTED BY:
ISSUE DATE: MARCH 2026
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.:
FILE NO.:
SIZE: ANSI D
FILE NAME: UTC_G-005.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

UPPER TURKEY CREEK ALIGNMENT DATA

SHEET ID
G-005

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LEFT BANK (LB) ALIGNMENT DATA			
POINT TYPE	STATION	NORTHING	EASTING
POB	0+00.00	265,916.41	2,248,964.17
PI	3+74.97	265,541.80	2,248,980.60
PI	8+55.50	265,578.45	2,249,459.73
PI	8+98.03	265,566.90	2,249,500.65
PI	10+45.32	265,532.28	2,249,643.82
PI	12+27.10	265,577.33	2,249,819.93
PI	13+84.53	265,685.42	2,249,934.39
PI	14+25.11	265,722.36	2,249,951.18
PI	14+83.98	265,775.11	2,249,977.31
PI	15+19.46	265,806.95	2,249,992.99
PI	16+59.41	265,892.46	2,250,103.77
PI	17+31.25	265,940.24	2,250,157.43
PI	18+25.55	266,008.10	2,250,222.91
PI	19+78.35	266,146.02	2,250,288.67
PI	20+68.12	266,227.54	2,250,251.10
PI	21+21.27	266,276.14	2,250,229.56
PI	22+59.01	266,292.99	2,250,366.26
PI	23+35.36	266,351.71	2,250,415.06
PI	24+08.09	266,410.00	2,250,458.56
PI	25+27.31	266,506.55	2,250,528.50
PI	27+66.96	266,731.16	2,250,612.04
PI	27+84.84	266,745.61	2,250,622.58
PI	29+23.67	266,843.76	2,250,720.77
PI	30+64.40	266,935.20	2,250,827.74
PI	30+72.05	266,940.05	2,250,833.65
PI	33+59.08	267,178.43	2,250,993.54
PI	33+71.74	267,188.95	2,251,000.58
PI	33+71.74	267,189.02	2,251,000.63
PI	34+68.25	267,281.52	2,251,028.17
PI	34+94.53	267,304.12	2,251,041.58
PI	36+94.21	267,499.93	2,251,080.70
PI	37+54.18	267,558.61	2,251,093.05
PI	37+79.93	267,583.77	2,251,098.59
PI	38+43.72	267,646.62	2,251,109.47
PI	39+84.63	267,786.35	2,251,127.63
PI	40+02.89	267,804.48	2,251,129.84
PI	40+15.07	267,816.65	2,251,130.31
PI	40+38.23	267,839.79	2,251,131.16
PI	40+81.42	267,882.90	2,251,128.55
PI	41+15.55	267,916.70	2,251,123.85
PI	41+79.41	267,978.84	2,251,109.11
PI	42+53.05	268,052.46	2,251,107.42
PI	42+66.51	268,052.05	2,251,093.96
PI	43+43.41	268,127.17	2,251,077.54
PI	44+57.48	268,221.27	2,251,013.05
PI	49+43.40	268,654.71	2,250,793.41
PI	51+62.36	268,829.89	2,250,662.05
PI	52+03.34	268,869.28	2,250,650.73
PI	52+33.57	268,897.22	2,250,662.26
PI	55+61.20	269,192.14	2,250,804.95
PI	58+18.83	269,416.84	2,250,930.99
PI	61+40.67	269,657.57	2,251,144.60
PI	64+59.97	269,953.88	2,251,263.57
PI	66+90.51	269,916.59	2,251,491.07
PI	67+61.40	269,898.92	2,251,559.73
PI	67+82.87	269,886.32	2,251,577.11
PI	68+39.53	269,873.69	2,251,632.35
POE	69+19.66	269,880.57	2,251,712.18

A1 LEFT BANK BASELINE ALIGNMENT DATA
SCALE: NTS

RIGHT BANK (RB) ALIGNMENT DATA			
POINT TYPE	STATION	NORTHING	EASTING
POB	0+00.00	265,356.33	2,250,053.49
PI	1+58.27	265,356.63	2,249,895.22
PI	2+40.00	265,434.58	2,249,919.78
PI	3+20.41	265,514.55	2,249,928.14
PI	4+71.21	265,619.28	2,250,036.64
PI	5+65.19	265,631.11	2,250,129.89
PI	5+85.67	265,646.89	2,250,142.93
PI	5+99.80	265,658.39	2,250,151.14
PI	6+79.86	265,738.35	2,250,147.13
PI	7+61.15	265,802.01	2,250,197.68
PI	10+69.30	266,043.05	2,250,389.67
PI	11+52.23	266,108.02	2,250,441.20
PI	11+85.05	266,119.81	2,250,471.83
PI	13+05.05	266,211.73	2,250,548.96
PI	13+51.53	266,251.69	2,250,572.70
PI	14+08.53	266,303.02	2,250,597.50
PI	15+73.88	266,452.21	2,250,668.77
PI	17+80.00	266,631.86	2,250,769.84
PI	18+99.13	266,715.31	2,250,854.86
PI	19+46.15	266,746.49	2,250,890.06
PI	19+83.49	266,778.22	2,250,909.73
PI	20+24.16	266,806.25	2,250,939.20
PI	22+22.98	266,954.43	2,251,071.76
PI	23+27.73	267,050.17	2,251,114.26
PI	24+38.79	267,160.47	2,251,127.25
PI	26+63.73	267,384.43	2,251,148.19
PI	27+39.82	267,454.59	2,251,177.63
PI	28+52.01	267,557.23	2,251,222.94
PI	30+24.97	267,710.52	2,251,303.05
PI	32+75.18	267,960.22	2,251,287.25
PI	33+71.09	268,053.17	2,251,263.58
PI	34+04.36	268,086.16	2,251,259.25
PI	34+65.54	268,132.07	2,251,218.83
PI	34+75.85	268,139.59	2,251,211.76
PI	35+05.96	268,163.16	2,251,193.03
PI	36+43.87	268,286.30	2,251,130.93
PI	37+22.22	268,360.41	2,251,105.51
PI	38+07.70	268,431.66	2,251,058.29
PI	38+66.94	268,485.32	2,251,033.16
PI	39+32.20	268,549.36	2,251,020.65
PI	40+75.31	268,689.53	2,250,991.80
PI	42+66.39	268,880.36	2,250,981.90
PI	43+50.35	268,964.31	2,250,980.62
PI	45+74.47	269,188.29	2,250,972.69
PI	46+00.82	269,214.62	2,250,971.90
PI	46+42.49	269,250.45	2,250,993.17
PI	47+27.83	269,317.88	2,251,045.49
PI	48+80.35	269,435.71	2,251,142.32
PI	49+58.71	269,501.78	2,251,184.46
PI	50+30.52	269,561.46	2,251,224.39
PI	51+91.10	269,678.83	2,251,333.99
PI	53+00.50	269,736.99	2,251,426.65
PI	53+90.16	269,710.73	2,251,512.38
PI	54+84.78	269,751.46	2,251,597.78
PI	55+70.40	269,750.10	2,251,683.39
PI	56+56.53	269,775.98	2,251,765.55
PI	56+85.48	269,789.81	2,251,790.98
PI	57+20.98	269,817.69	2,251,812.96
POE	57+80.00	269,865.49	2,251,847.56

A6 RIGHT BANK BASELINE ALIGNMENT DATA
SCALE: NTS

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: PDT
DRAWN BY: M. VANLANDINGHAM
CHECKED BY: P. O'CONNELL
SUBMITTED BY:
ISSUE DATE: MARCH 2026
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CONTRACT NO.:
FILE NO.:
SIZE: ANSI D
FILE NAME: UTC_G-006.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

LEFT AND RIGHT BANK
BASELINE ALIGNMENT DATA

SHEET ID
G-006

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GENERAL SHEET NOTES

1. UTC BASELINE FOR EXISTING CONDITIONS REFERENCE.
   SEE G-008 FOR LEFT BANK ALIGNMENT KEY MAP.
   SEE G-009 FOR RIGHT BANK ALIGNMENT KEY MAP.

A1 EXISTING CONDITIONS, DEMOLITION, & UTILITIES KEY MAP
SCALE: 1" = 400'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	ISSUE DATE:
PDT	MARCH 2026
DRAWN BY:	SOLICITATION NO.:
M. VANLANDINGHAM	SEE COVER SHEET
CHECKED BY:	CONTRACT NO.:
P. O'CONNELL	FILE NO.:
SUBMITTED BY:	
PDT	FILE NAME:
SIZE: ANSI D	UTC_G-007.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

EXISTING CONDITIONS,
DEMOLITION, & UTILITIES KEY MAP

SHEET ID
G-007

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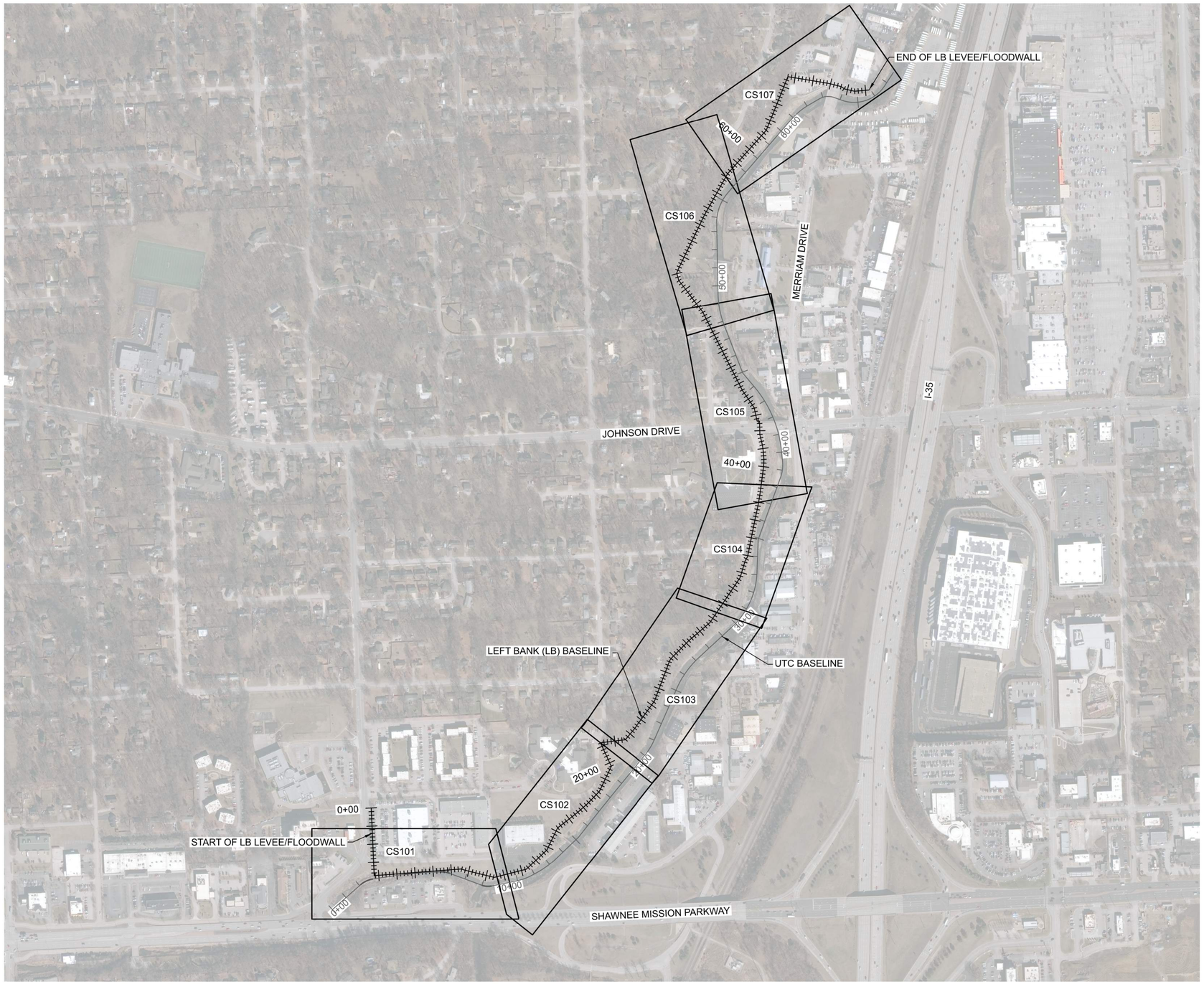

GENERAL SHEET NOTES

1. LEFT BANK LEVEE/FLOODWALL DOES NOT EXTEND THE FULL LENGTH OF THE LB BASELINE. THERE IS NO LEFT BANK LEVEE/FLOODWALL WITHIN THE FOLLOWING RANGES:

   LB STA. 0+00 TO STA. 1+40
   LB STA. 21+00 TO STA. 40+10.91
   LB STA. 41+64.40 TO STA. 64+83.96

PLAN NORTH

0 300' 600'

A1 LEFT BANK KEY MAP
SCALE: 1" = 300'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: PDT	ISSUE DATE: MARCH 2026
DRAWN BY: M. VANLANDINGHAM	SOLICITATION NO.: SEE COVER SHEET
CHECKED BY: P. O'CONNELL	CONTRACT NO.:
SUBMITTED BY:	FILE NO.:
SIZE: ANSI D	FILE NAME: UTC_G-008.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

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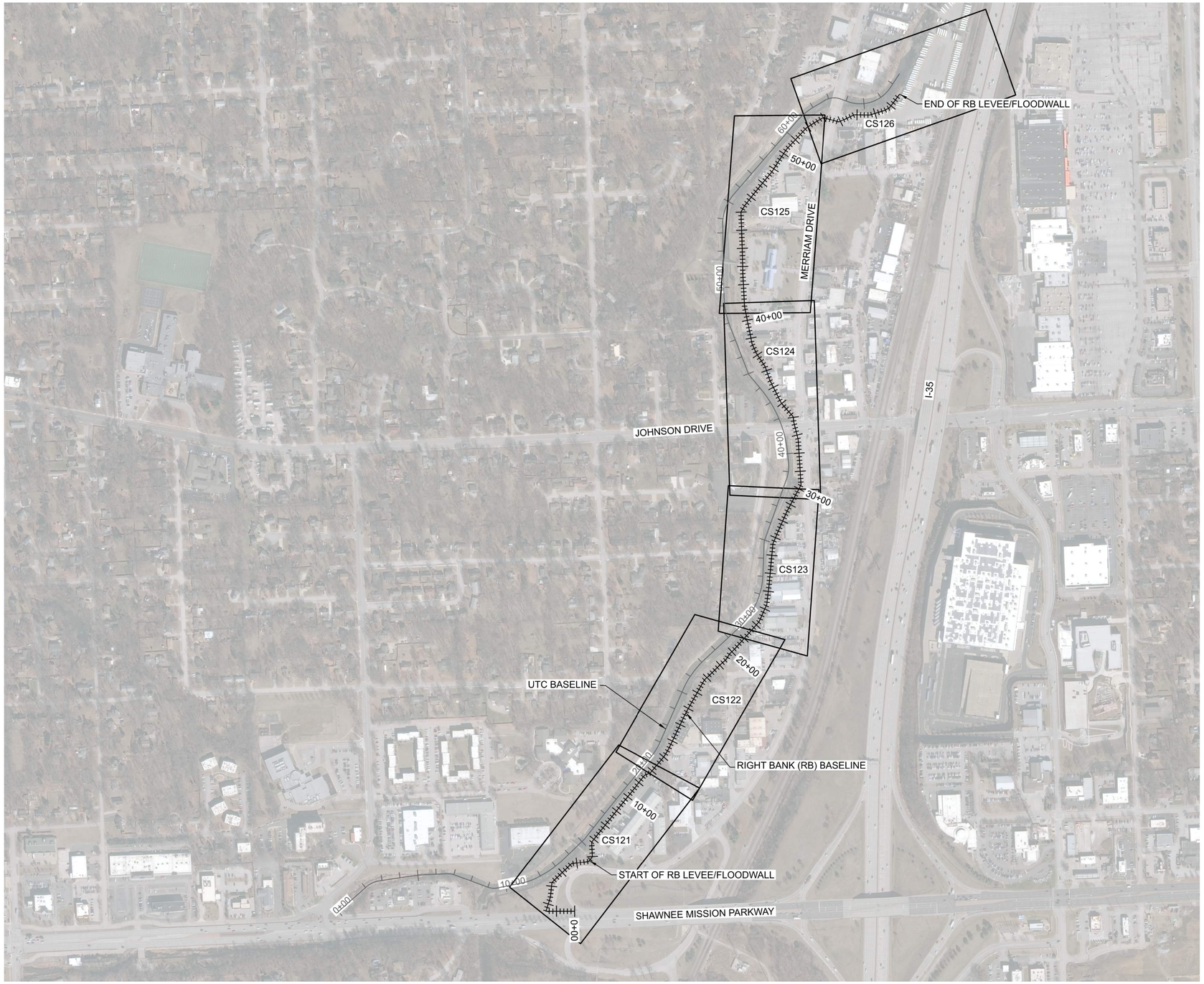
MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

LEFT BANK KEY MAP

SHEET ID
G-008

pw:\\PRINT-NPC.EIS.DS-USACE.ARMY.MIL:CENWK - Kansas City District\Documents\CW\TurkeyCr\505229_Upper_Turkey_Creek\6.0 Engineering-Design\6.1 Drawings\CAD_BIM\



PLAN NORTH

0 300' 600'

A1 RIGHT BANK KEY MAP
SCALE: 1" = 300'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: PDT
DRAWN BY: M. VANLANDINGHAM
CHECKED BY: P. O'CONNELL
SUBMITTED BY:
ISSUE DATE: MARCH 2026
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.:
FILE NO.:
SIZE: ANSI D
FILE NAME: UTC_G-009.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

RIGHT BANK KEY MAP

SHEET ID
G-009

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UTC_G-009.dgn
3:32:40 PM 3/30/2026 PD: DS:

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A1 EXISTING CONDITIONS UTC STA 0+00 TO STA 10+00
SCALE: 1"=50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH 2026
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.:
FILE NO.:

DESIGNED BY: PDT
DRAWN BY: M. VANLANDINGHAM
CHECKED BY: P. O'CONNELL
SUBMITTED BY:
SIZE: ANSI D
FILE NAME: UTC_V-101.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505228, FY2023

EXISTING CONDITIONS
STA 0+00 TO STA 10+00

SHEET ID
UTC
V-101

p:\\EPAINT-WPC.EIS.DS.USACE.ARMY.MIL:CENWK - Kansas City District\Documents\CW\TurkeyCr\505228_Upper_Turkey_Creek\6.0 Engineering-Design\6.1 Drawings\CAD_BIM\

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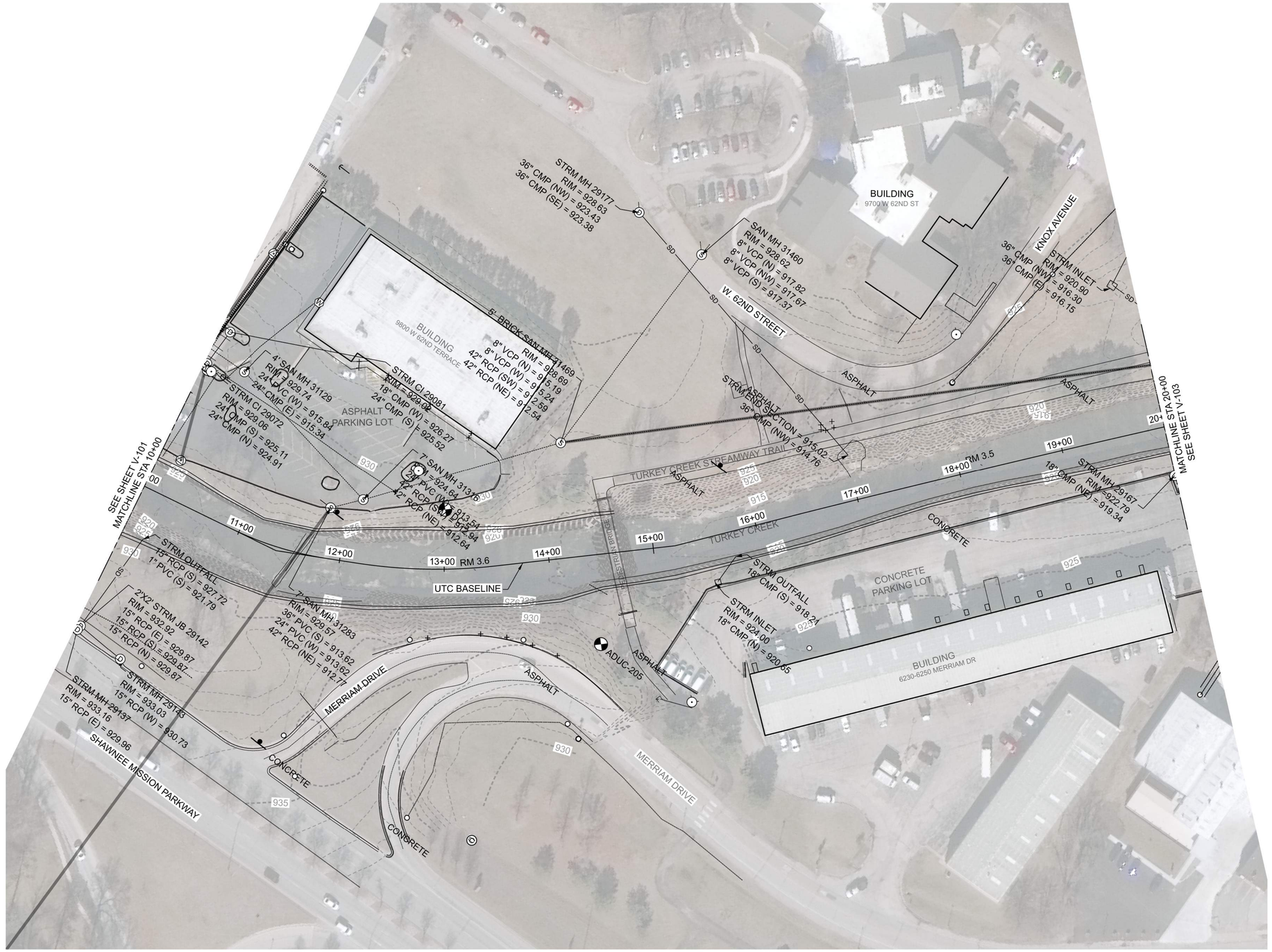

PLAN NORTH

0 50' 100'

A1 EXISTING CONDITIONS UTC STA 10+00 TO STA 20+00
SCALE: 1"=50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: PDT	ISSUE DATE: MARCH 2026
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KANSAS CITY, MO 64106

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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

EXISTING CONDITIONS
STA 10+00 TO STA 20+00

SHEET ID
UTC
V-102

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PLAN NORTH

0 50' 100'

A1 EXISTING CONDITIONS UTC STA 20+00 TO STA 30+00
SCALE: 1"=50'

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DESIGNED BY: PDT	ISSUE DATE: MARCH 2026
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U.S. ARMY CORPS OF ENGINEERS
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601 E. 12TH STREET
KANSAS CITY, MO 64106

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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

EXISTING CONDITIONS
STA 20+00 TO STA 30+00

SHEET ID
UTC
V-103

pw:\\PWINT-WPC.EIS.DS.USACE.ARMY.MIL:CENWK - Kansas City District\Documents\CW\TurkeyCr\505229 Upper_Turkey_Creek\6.0 Engineering-Design\6.1 Drawings\CAD_BIM\

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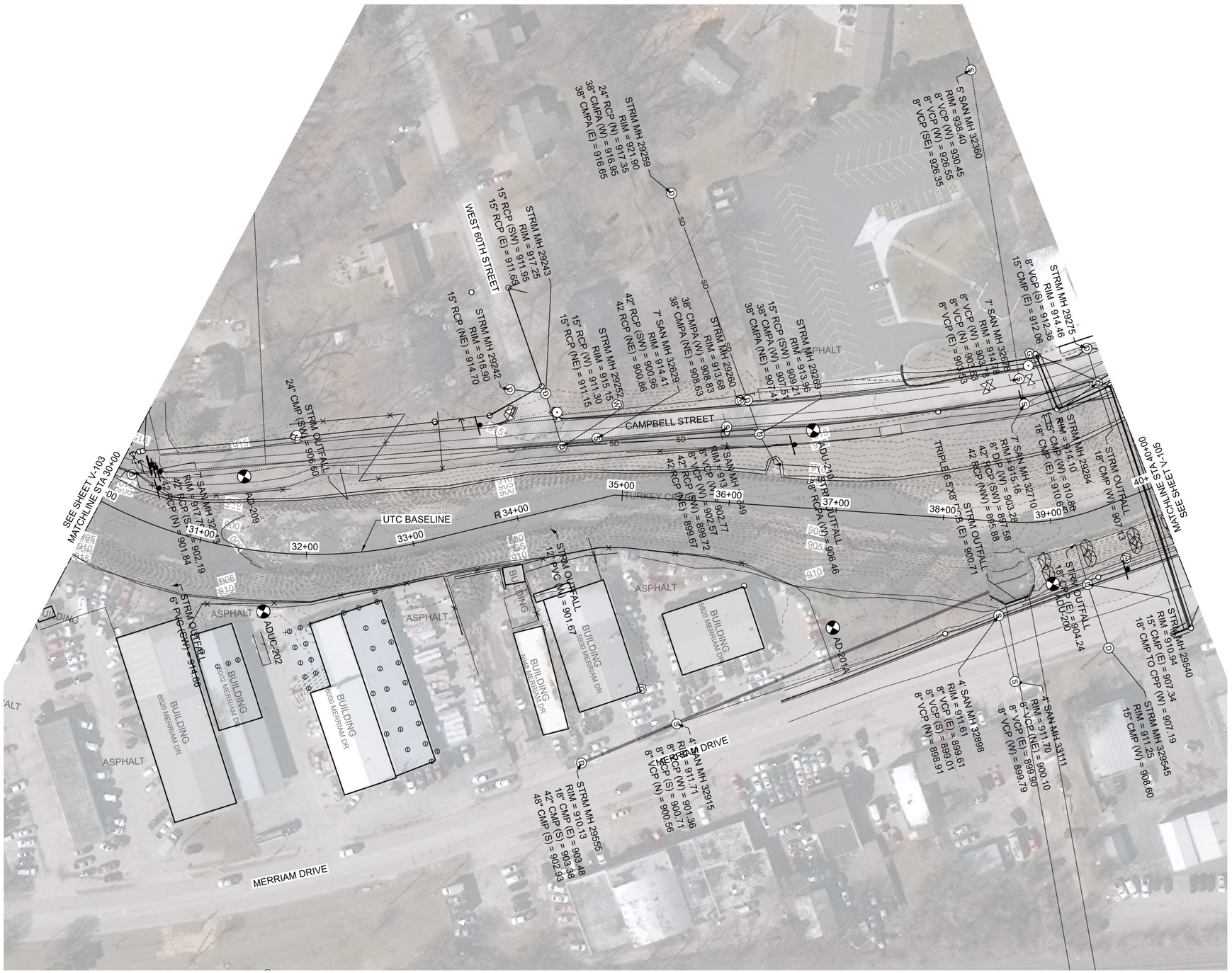

A1 EXISTING CONDITIONS UTC STA 30+00 TO STA 40+00

SCALE: 1"=50'

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MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH 2026
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FILE NAME: UTC_V-104.dgn

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UPPER TURKEY CREEK
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EXISTING CONDITIONS
STA 30+00 TO STA 40+00

SHEET ID
UTC
V-104

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PLAN NORTH

0 50' 100'

A1 EXISTING CONDITIONS UTC STA 40+00 TO STA 50+00
SCALE: 1"=50'

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ISSUE DATE:	MARCH 2026
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FILE NO.:	
FILE NAME	UTC_V-105.dgn

DESIGNED BY:	PDT
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CHECKED BY:	P. O'CONNELL
SUBMITTED BY:	
SIZE:	ANSI D

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FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

EXISTING CONDITIONS
STA 40+00 TO STA 50+00

SHEET ID
UTC
V-105

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PD:
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PLAN NORTH

0 50' 100'

A1 EXISTING CONDITIONS UTC STA 50+00 TO STA 60+00

SCALE: 1"=50'

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DRAWN BY: M. VANLANDINGHAM
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UPPER TURKEY CREEK
P2 - 505229, FY2023

EXISTING CONDITIONS
STA 50+00 TO STA 60+00

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UTC
V-106

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PLAN NORTH

0 50' 100'

A1 EXISTING CONDITIONS UTC STA 60+00 TO END
SCALE: 1"=50'

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FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

EXISTING CONDITIONS
STA 60+00 TO END

SHEET ID
UTC
V-107

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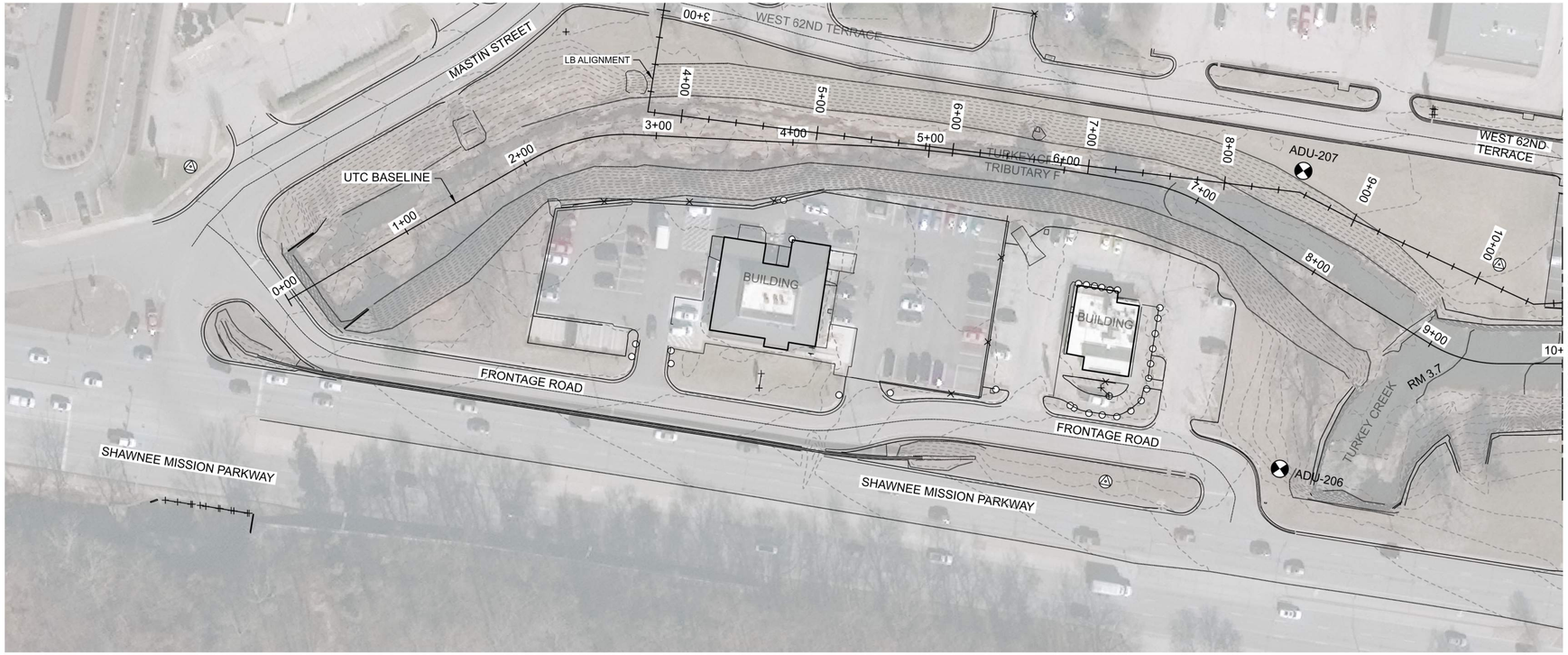

D1 BORING LOCATIONS UTC STA 0+00 TO STA 10+00

SCALE: 1"=50'

0 50' 100'

A1 BORING PROFILE UTC STA 0+00 TO STA 10+00

SCALE: 1"=50'

0 50' 100'

LEGEND

- Fill (made ground)
- gCH – Gravelly Fat Clay
- CL – USCS Low Plasticity (Lean) Clay
- SH (WTH) – Shale, Weathered
- SH – Shale
- CLg – USCS Low Plasticity (Lean) Clay with Gravel
- CH – USCS High Plasticity (Fat) Clay
- Asphalt
- sCL – Sandy Lean Clay
- ML – USCS Silt
- LS – Limestone
- gCL – Gravelly Lean Clay
- CL-ML border line lean clay–silt
- GC – USCS Clayey Gravel
- GP-GC – USCS Poorly-graded Gravel with Clay
- SP – USCS Poorly-graded Sand
- SP-SM – USCS Poorly-graded Sand with Silt
- GM – USCS Silty Gravel
- LS (CH1) – Limestone – Cherty
- CLs – USCS Low Plasticity (Lean) Clay with Sand

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MARK	DESCRIPTION	DATE

DESIGNED BY:	ISSUE DATE:
D. JENSON	MARCH 2026
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J. TINKEY	SEE COVER SHEET
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P. O'CONNELL	
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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

BORING PROFILE
STA 0+00 TO STA 10+00

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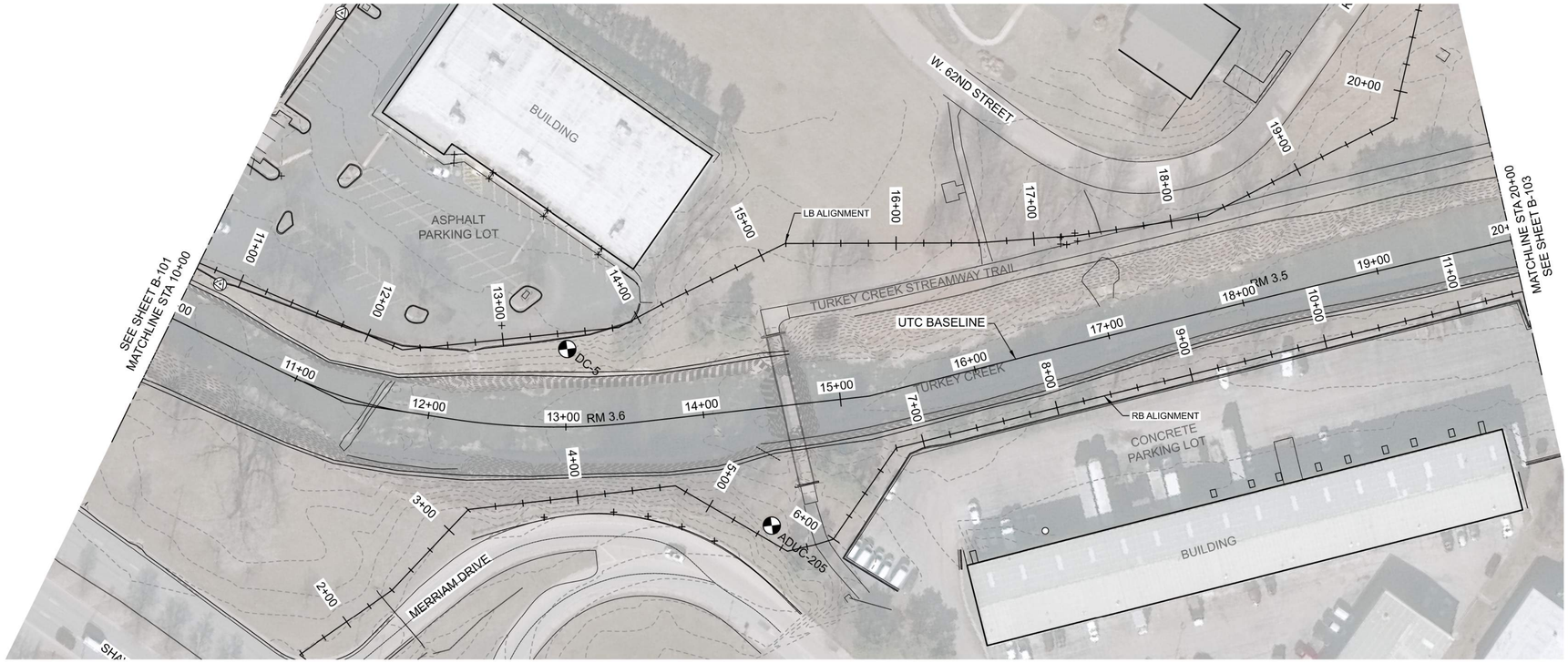

PLAN NORTH

D1 BORING LOCATIONS UTC STA 10+00 TO STA 20+00

SCALE: 1"=50'

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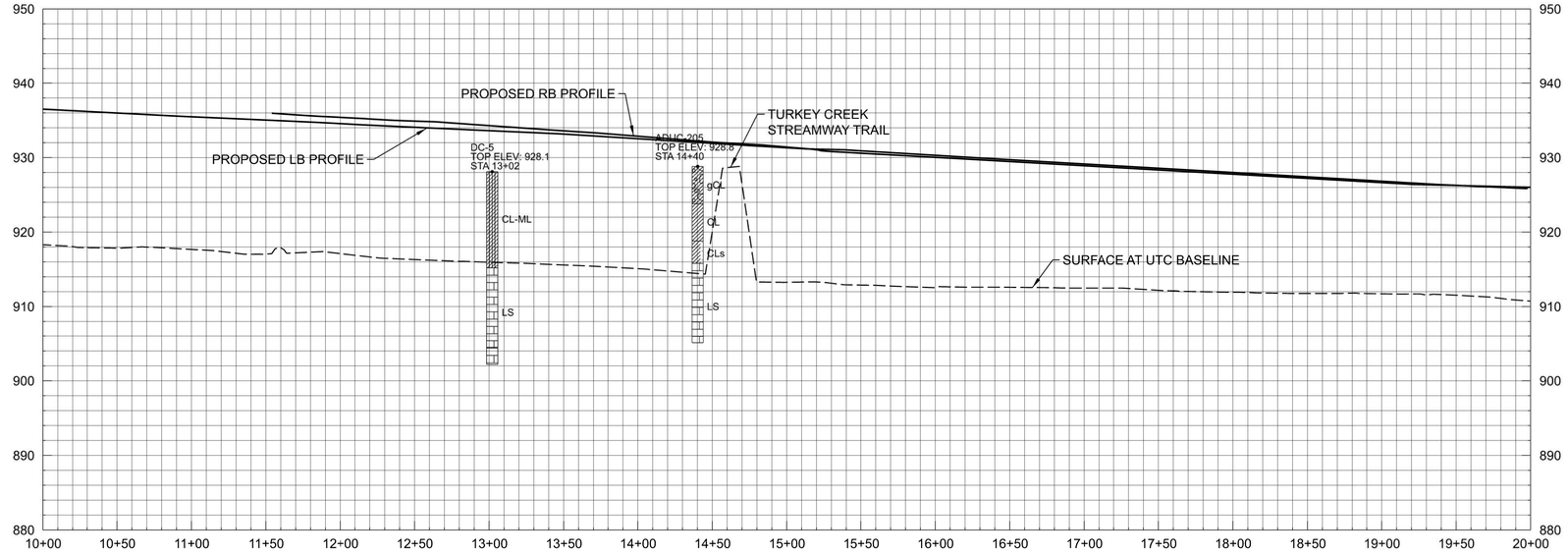

A1 BORING PROFILE UTC STA 0+00 TO STA 10+00

SCALE: 1"=50'

0 50' 100'

LEGEND

- Fill (made ground)
- gCH – Gravelly Fat Clay
- CL – USCS Low Plasticity (Lean) Clay
- SH (WTH) – Shale, Weathered
- SH – Shale
- CLg – USCS Low Plasticity (Lean) Clay with Gravel
- CH – USCS High Plasticity (Fat) Clay
- Asphalt
- sCL – Sandy Lean Clay
- ML – USCS Silt
- LS – Limestone
- gCL – Gravelly Lean Clay
- CL-ML border line lean clay–silt
- GC – USCS Clayey Gravel
- GP-GC – USCS Poorly-graded Gravel with Clay
- SP – USCS Poorly-graded Sand
- SP-SM – USCS Poorly-graded Sand with Silt
- GM – USCS Silty Gravel
- LS (CH1) – Limestone – Cherty
- CLs – USCS Low Plasticity (Lean) Clay with Sand

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

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FILE NAME:	UTC_B-102.dgn

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DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

BORING PROFILE
STA 10+00 TO STA 20+00

SHEET ID
UTC
B-102

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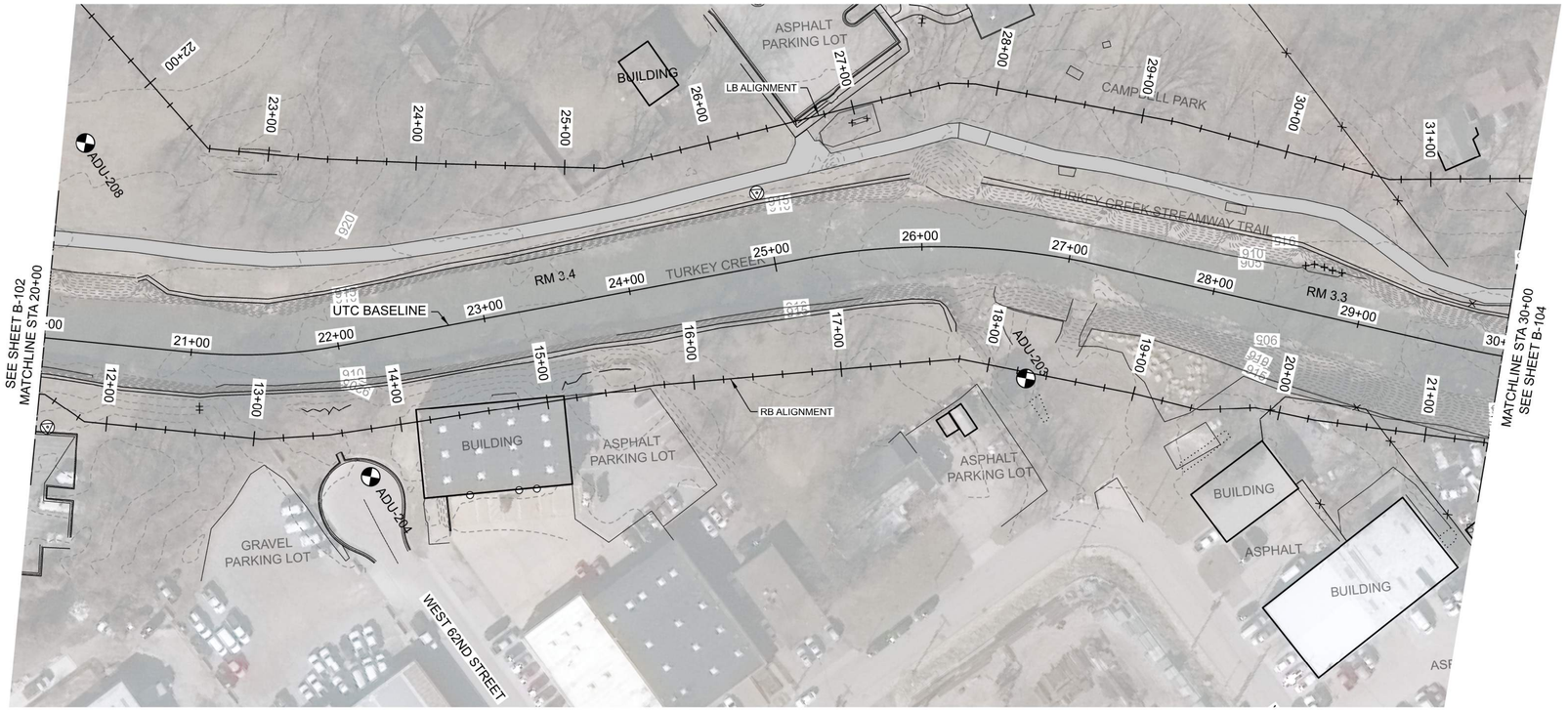

PLAN NORTH

D1 BORING LOCATIONS UTC STA 20+00 TO STA 30+00

SCALE: 1"=50'

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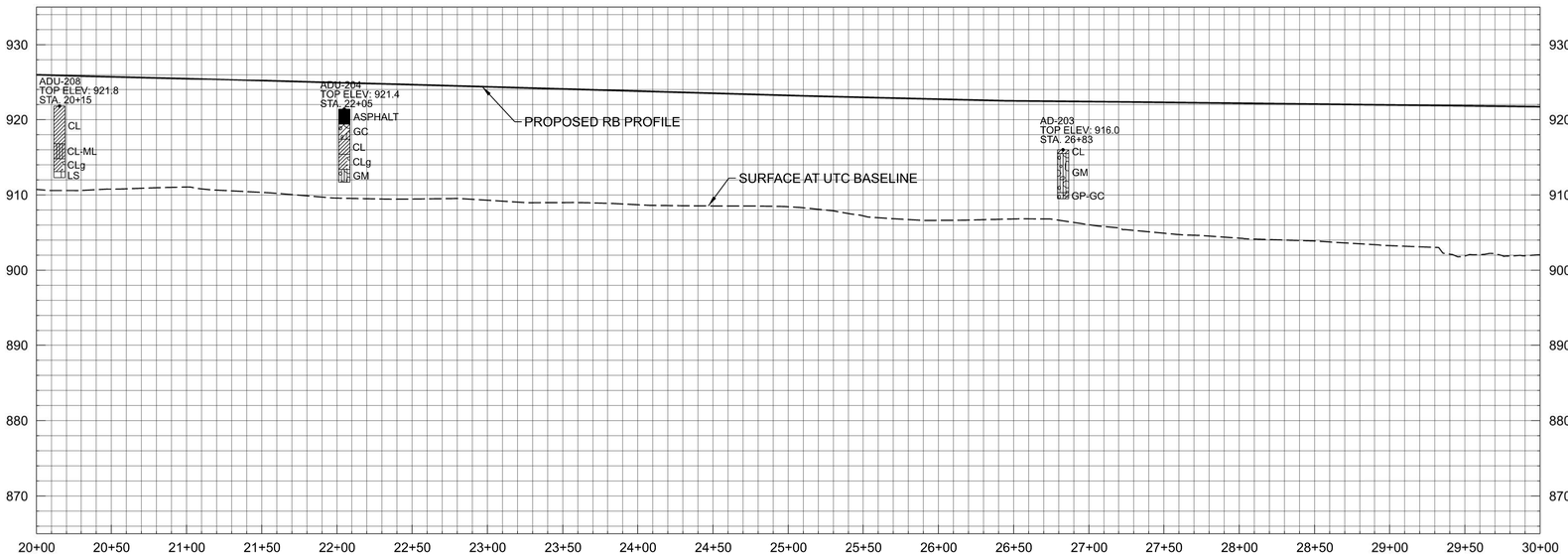

A1 BORING PROFILE UTC STA 20+00 TO STA 30+00

SCALE: 1"=50'

0 50' 100'

LEGEND

- Fill (made ground)
- gCH – Gravelly Fat Clay
- CL – USCS Low Plasticity (Lean) Clay
- SH (WTH) – Shale, Weathered
- SH – Shale
- CLg – USCS Low Plasticity (Lean) Clay with Gravel
- CH – USCS High Plasticity (Fat) Clay
- Asphalt
- sCL – Sandy Lean Clay
- ML – USCS Silt
- LS – Limestone
- gCL – Gravelly Lean Clay
- CL-ML border line lean clay–silt
- GC – USCS Clayey Gravel
- GP-GC – USCS Poorly-graded Gravel with Clay
- SP – USCS Poorly-graded Sand
- SP-SM – USCS Poorly-graded Sand with Silt
- GM – USCS Silty Gravel
- LS (CH1) – Limestone – Cherty
- CLs – USCS Low Plasticity (Lean) Clay with Sand

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	D. JENSON
DRAWN BY:	J. TINKEY
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SUBMITTED BY:	
ISSUE DATE:	MARCH 2026
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FILE NAME	UTC_B-103.dgn

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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

BORING PROFILE
STA 20+00 TO STA 30+00

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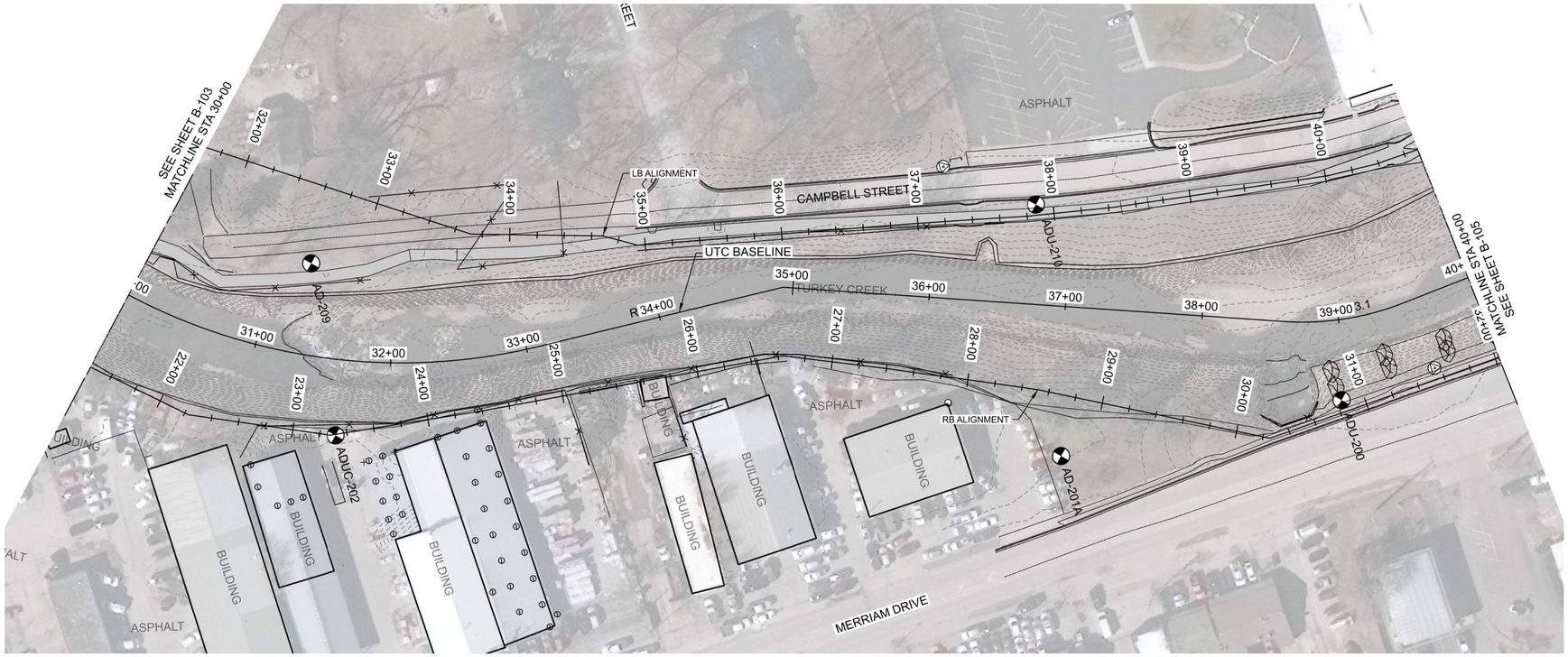

PLAN NORTH

D1 BORING LOCATIONS UTC STA 30+00 TO STA 40+00

SCALE: 1"=50'

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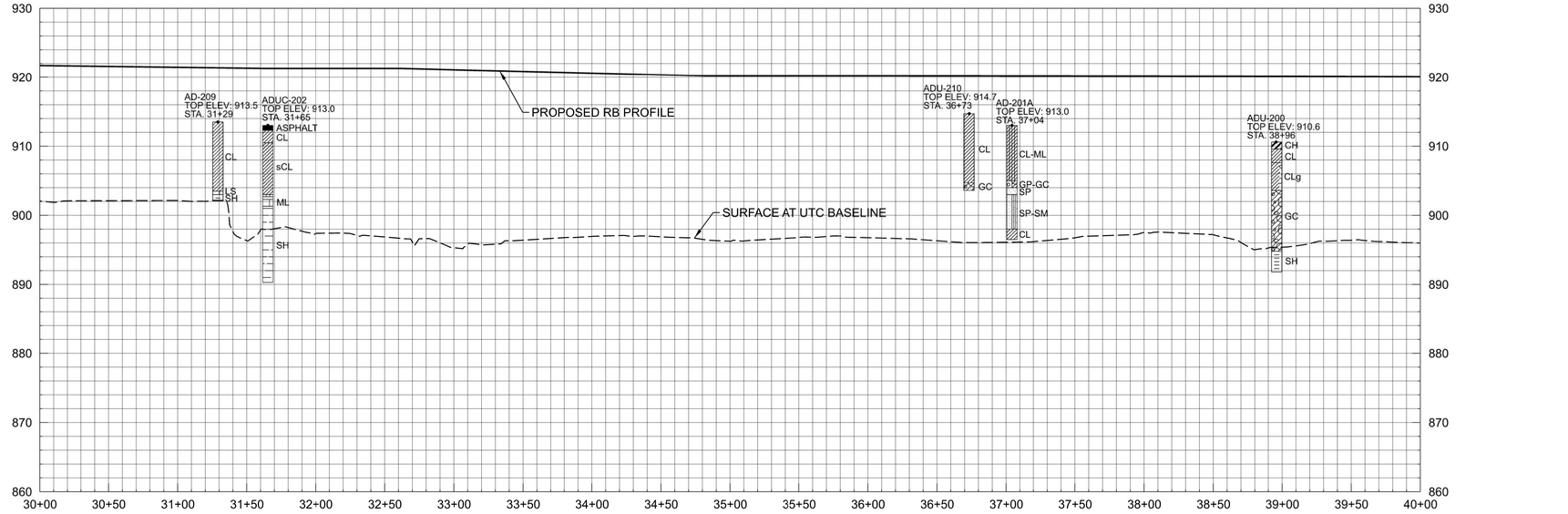

A1 BORING PROFILE UTC STA 30+00 TO STA 40+00

SCALE: 1"=50'

0 50' 100'

LEGEND

- Fill (made ground)
- gCH – Gravelly Fat Clay
- CL – USCS Low Plasticity (Lean) Clay
- SH (WTH) – Shale, Weathered
- SH – Shale
- CLg – USCS Low Plasticity (Lean) Clay with Gravel
- CH – USCS High Plasticity (Fat) Clay
- Asphalt
- sCL – Sandy Lean Clay
- ML – USCS Silt
- LS – Limestone
- gCL – Gravelly Lean Clay
- CL-ML border line lean clay-silt
- GC – USCS Clayey Gravel
- GP-GC – USCS Poorly-graded Gravel with Clay
- SP – USCS Poorly-graded Sand
- SP-SM – USCS Poorly-graded Sand with Silt
- GM – USCS Silty Gravel
- LS (CHT) – Limestone – Charty
- CLs – USCS Low Plasticity (Lean) Clay with Sand

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MARK	DESCRIPTION	DATE

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D. JENSON	MARCH 2026
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J. TINKEY	SEE COVER SHEET
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KANSAS CITY DISTRICT
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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

BORING PROFILE
STA 30+00 TO STA 40+00

SHEET ID
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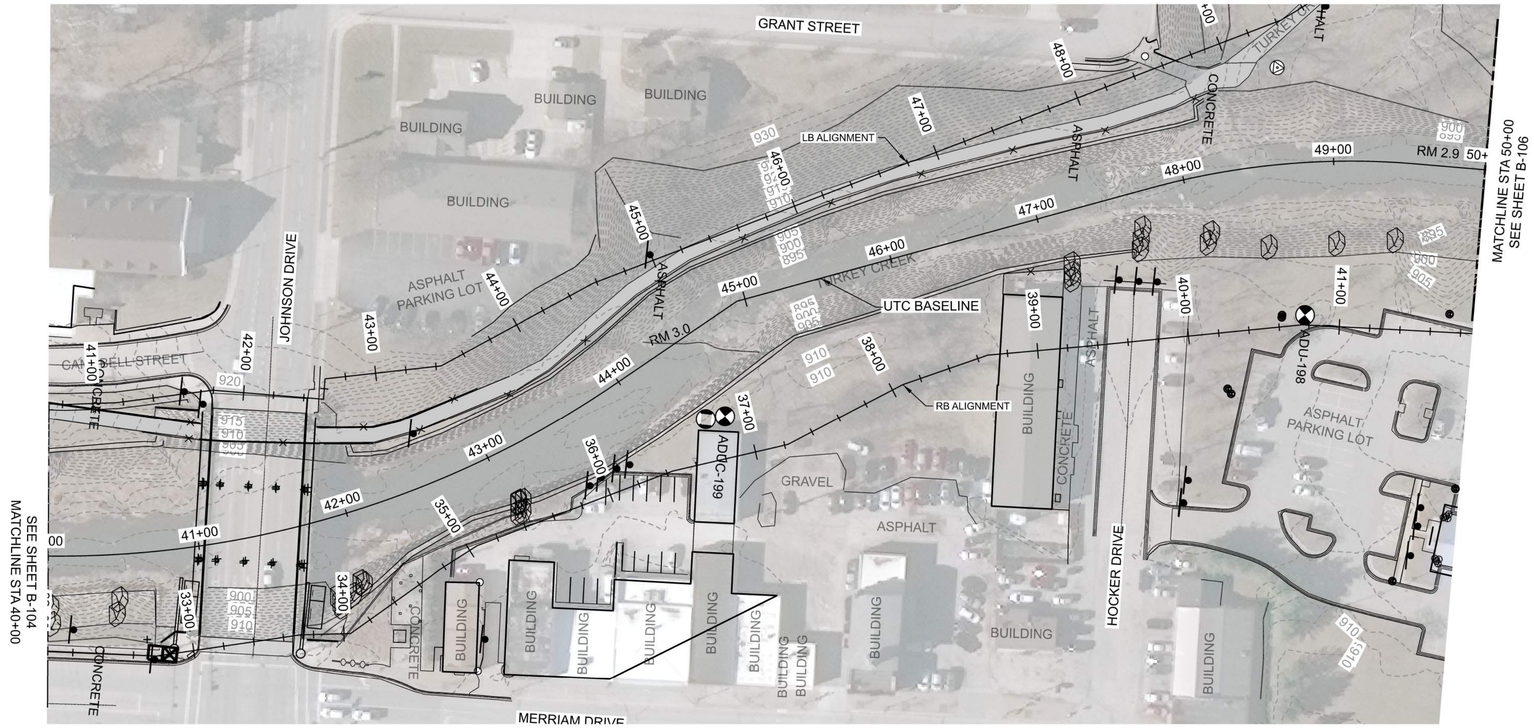

PLAN NORTH

D1 BORING LOCATIONS UTC STA 40+00 TO STA 50+00

SCALE: 1"=50'

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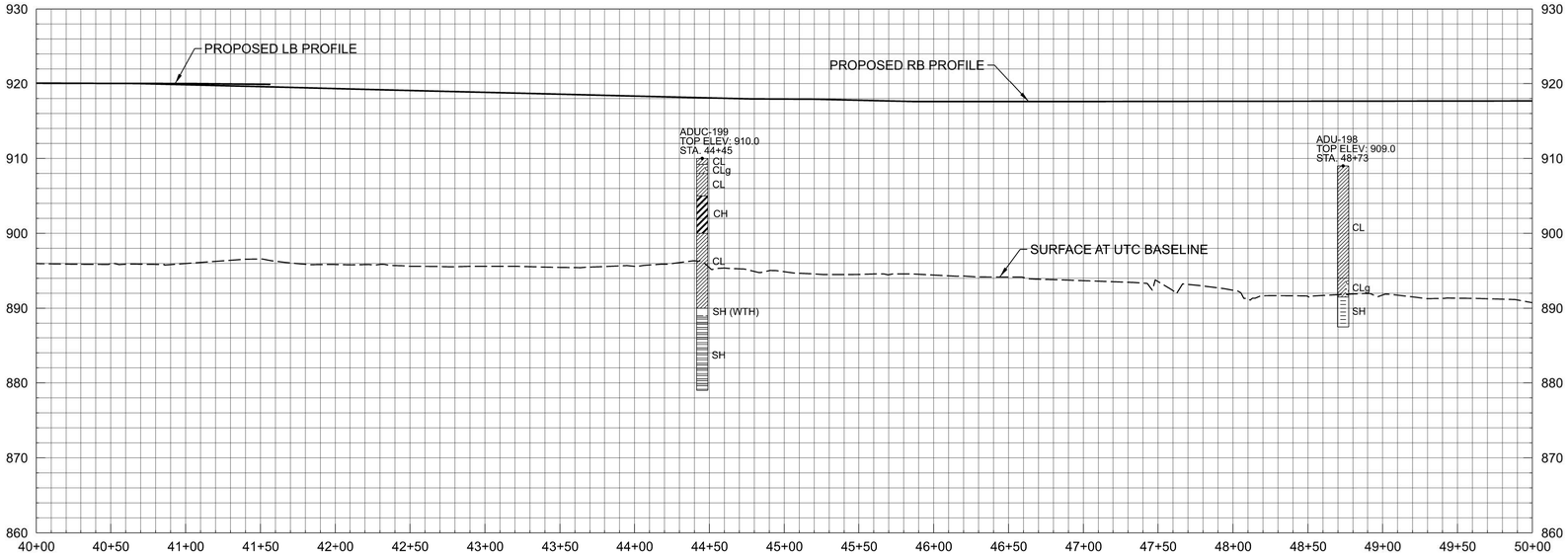

A1 BORING PROFILE UTC STA 40+00 TO STA 50+00

SCALE: 1"=50'

0 50' 100'

LEGEND

- Fill (made ground)
- gCH – Gravelly Fat Clay
- CL – USCS Low Plasticity (Lean) Clay
- SH (WTH) – Shale, Weathered
- SH – Shale
- CLg – USCS Low Plasticity (Lean) Clay with Gravel
- CH – USCS High Plasticity (Fat) Clay
- Asphalt
- sCL – Sandy Lean Clay
- WL – USCS Silt
- LS – Limestone
- gCL – Gravelly Lean Clay
- CL-ML border line lean clay–silt
- GC – USCS Clayey Gravel
- GP-GC – USCS Poorly-graded Gravel with Clay
- SP – USCS Poorly-graded Sand
- SP-SM – USCS Poorly-graded Sand with Silt
- GM – USCS Silty Gravel
- LS (CH1) – Limestone – Cherty
- CLs – USCS Low Plasticity (Lean) Clay with Sand

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	D. JENSON
DRAWN BY:	J. TINKEY
CHECKED BY:	P. O'CONNELL
SUBMITTED BY:	
ISSUE DATE:	MARCH 2026
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CONTRACT NO.:	
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FILE NAME:	UTC_B-105.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

BORING PROFILE
STA 40+00 TO STA 50+00

SHEET ID
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B-105

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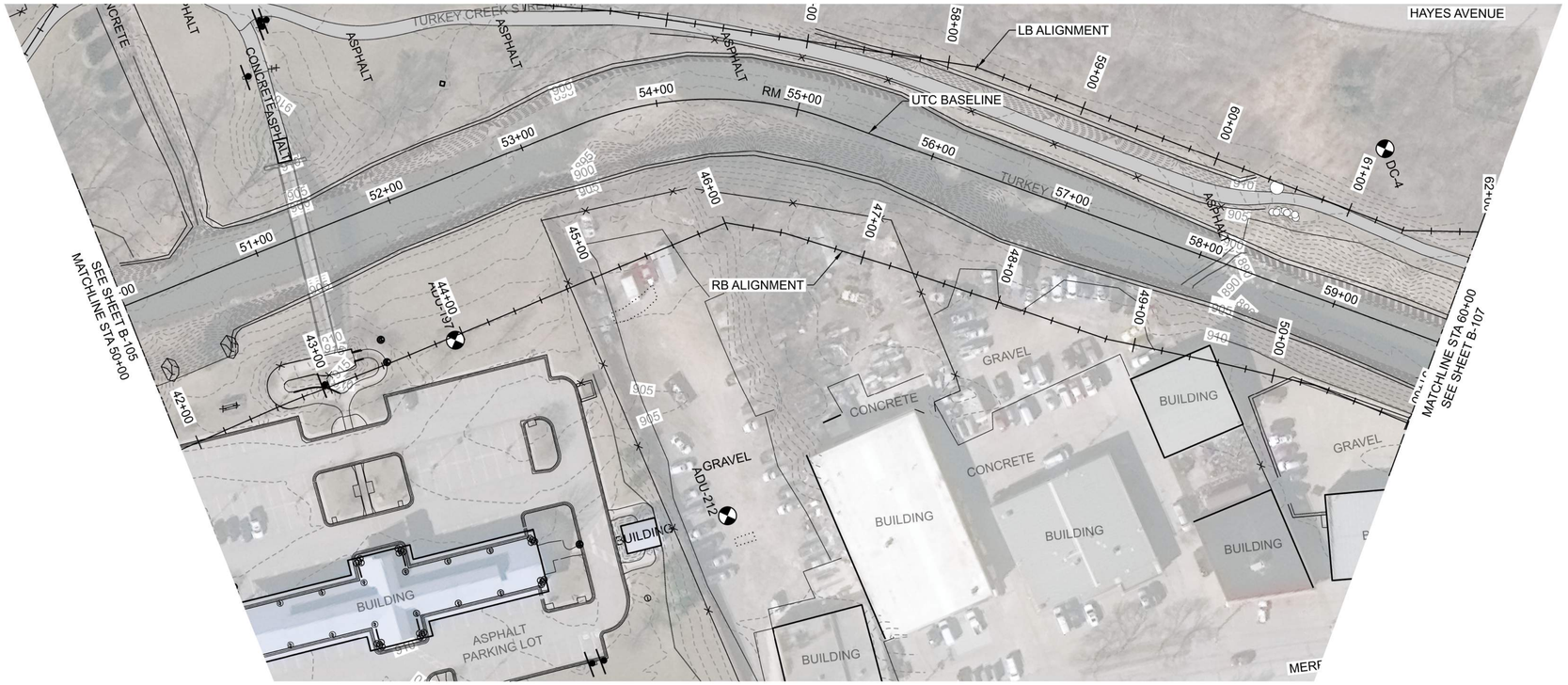

PLAN NORTH

D1 BORING LOCATIONS UTC STA 50+00 TO STA 60+00

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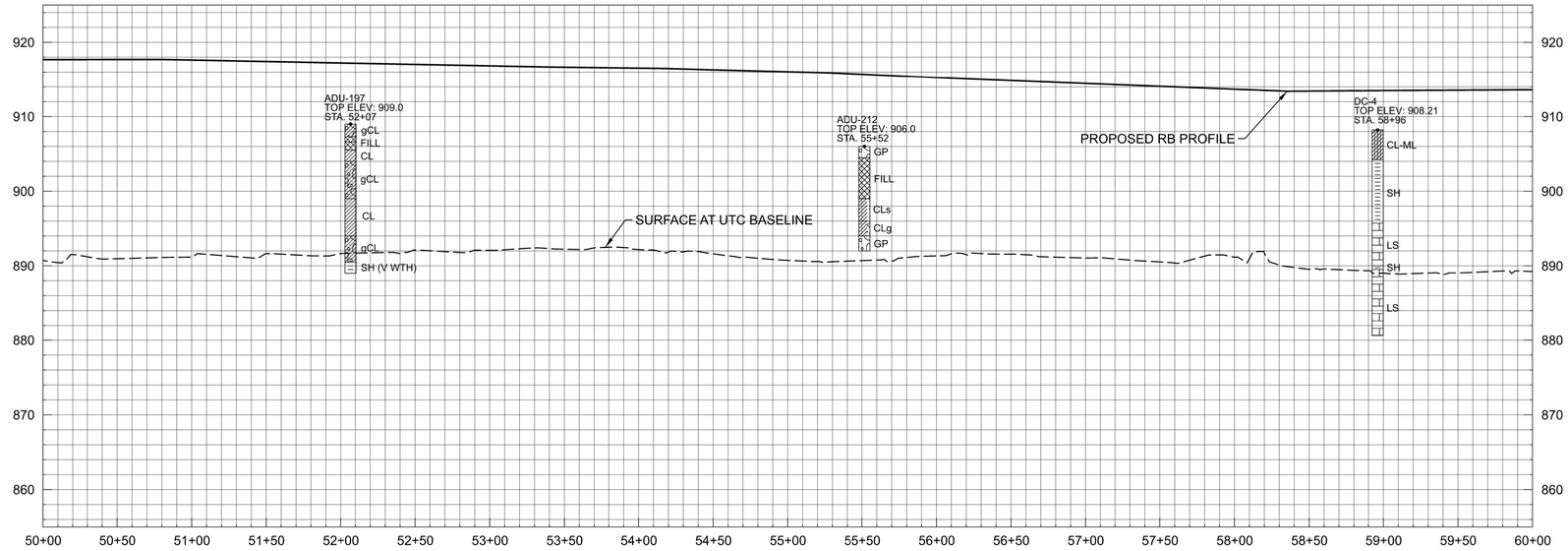

A1 BORING PROFILE UTC STA 50+00 TO STA 60+00

SCALE: 1"=50'

0 50' 100'

LEGEND

- Fill (made ground)
- gCH – Gravelly Fat Clay
- CL – USCS Low Plasticity (Lean) Clay
- SH (WTH) – Shale, Weathered
- SH – Shale
- CLg – USCS Low Plasticity (Lean) Clay with Gravel
- CH – USCS High Plasticity (Fat) Clay
- Asphalt
- sCL – Sandy Lean Clay
- ML – USCS Silt
- LS – Limestone
- gCL – Gravelly Lean Clay
- CL-ML border line lean clay-silt
- GC – USCS Clayey Gravel
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- SP – USCS Poorly-graded Sand
- SP-SM – USCS Poorly-graded Sand with Silt
- GM – USCS Silty Gravel
- LS (CHT) – Limestone – Cherty
- CLs – USCS Low Plasticity (Lean) Clay with Sand

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	D. JENSON
DRAWN BY:	J. TINKEY
CHECKED BY:	P. O'CONNELL
SUBMITTED BY:	
ISSUE DATE:	MARCH 2026
SOLICITATION NO.:	
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FILE NO.:	
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FILE NAME:	UTC_B-106.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

BORING PROFILE
STA 50+00 TO STA 60+00

SHEET ID
UTC
B-106

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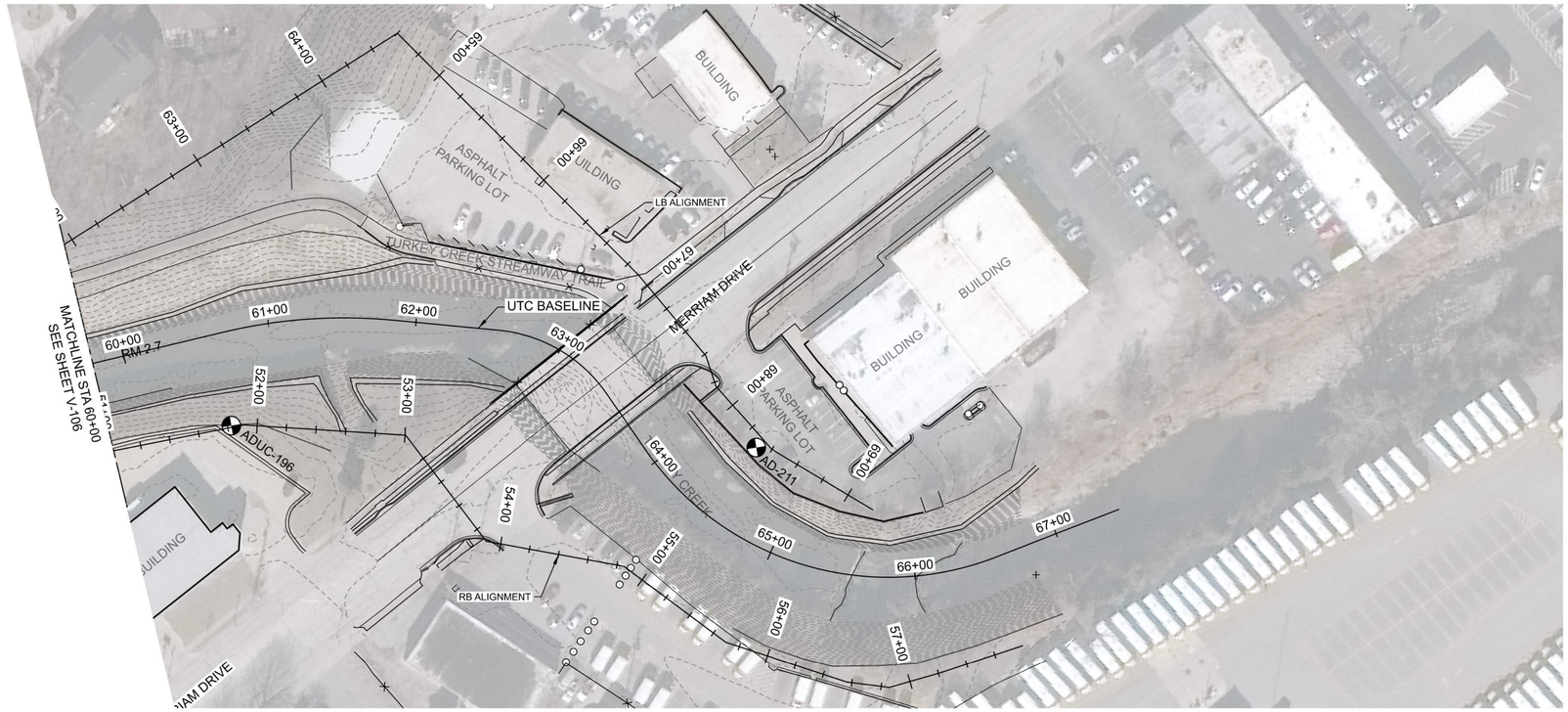
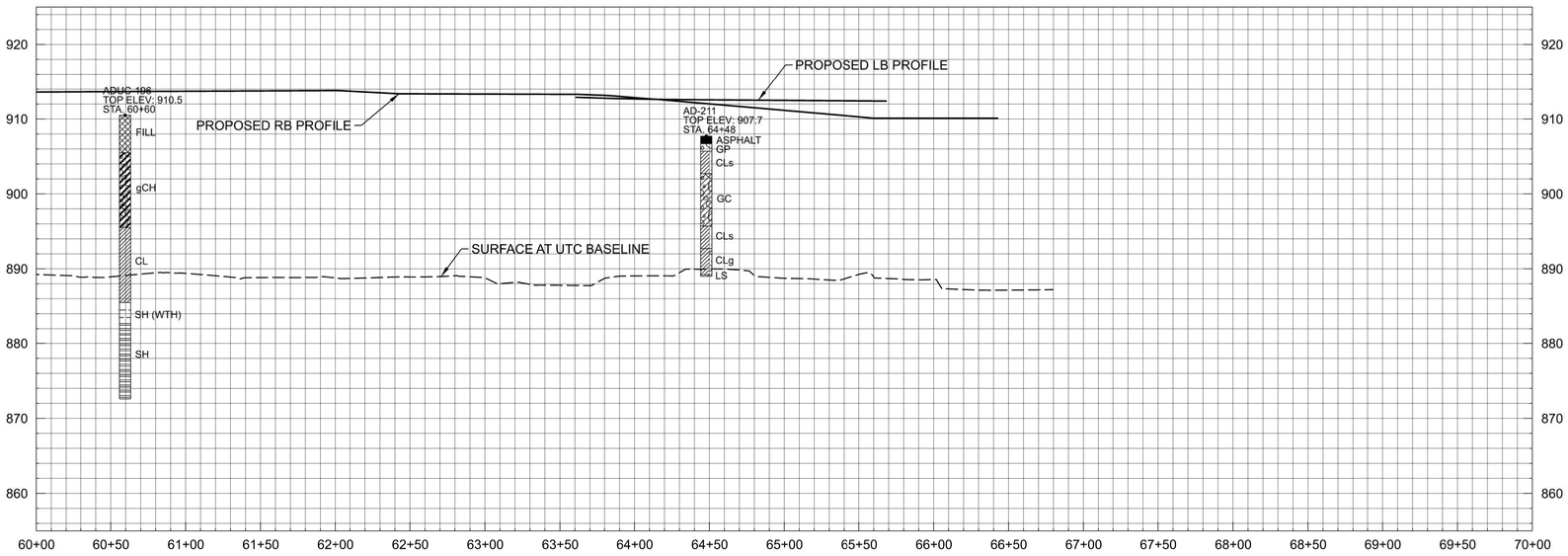


PLAN NORTH

D1 BORING LOCATIONS UTC STA 60+00 TO STA 67+45.54

SCALE: 1"=50'

0 50' 100'



A1 BORING PROFILE UTC STA 60+00 TO 67+45.54

SCALE: 1"=50'

0 50' 100'

LEGEND

- Fill (made ground)
- gCH – Gravelly Fat Clay
- CL – USCS Low Plasticity (Lean) Clay
- SH (WTH) – Shale, Weathered
- SH – Shale
- CLg – USCS Low Plasticity (Lean) Clay with Gravel
- CH – USCS High Plasticity (Fat) Clay
- Asphalt
- SCL – Sandy Lean Clay
- ML – USCS Silt
- LS – Limestone
- gCL – Gravelly Lean Clay
- CL-ML border line lean clay–silt
- GC – USCS Clayey Gravel
- GP-GC – USCS Poorly-graded Gravel with Clay
- SP – USCS Poorly-graded Sand
- SP-SM – USCS Poorly-graded Sand with Silt
- GM – USCS Silty Gravel
- LS (CHT) – Limestone – Cherty
- CLs – USCS Low Plasticity (Lean) Clay with Sand

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	D. JENSON
DRAWN BY:	J. TINKEY
CHECKED BY:	P. O'CONNELL
SUBMITTED BY:	
SIZE: ANSI D	FILE NAME: UTC_B-107.dgn

ISSUE DATE: MARCH 2026
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.:
FILE NO.:

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

BORING PROFILE
STA 60+00 TO END

SHEET ID
UTC
B-107

pw:\\PWINT-WPC.EIS.DS.USACE.ARMY.MIL:CENWK - Kansas City District\Documents\CW\TurkeyCr\505229_Upper_Turkey_Creek\6.0 Engineering-Design\6.1 Drawings\CAD_BIM\

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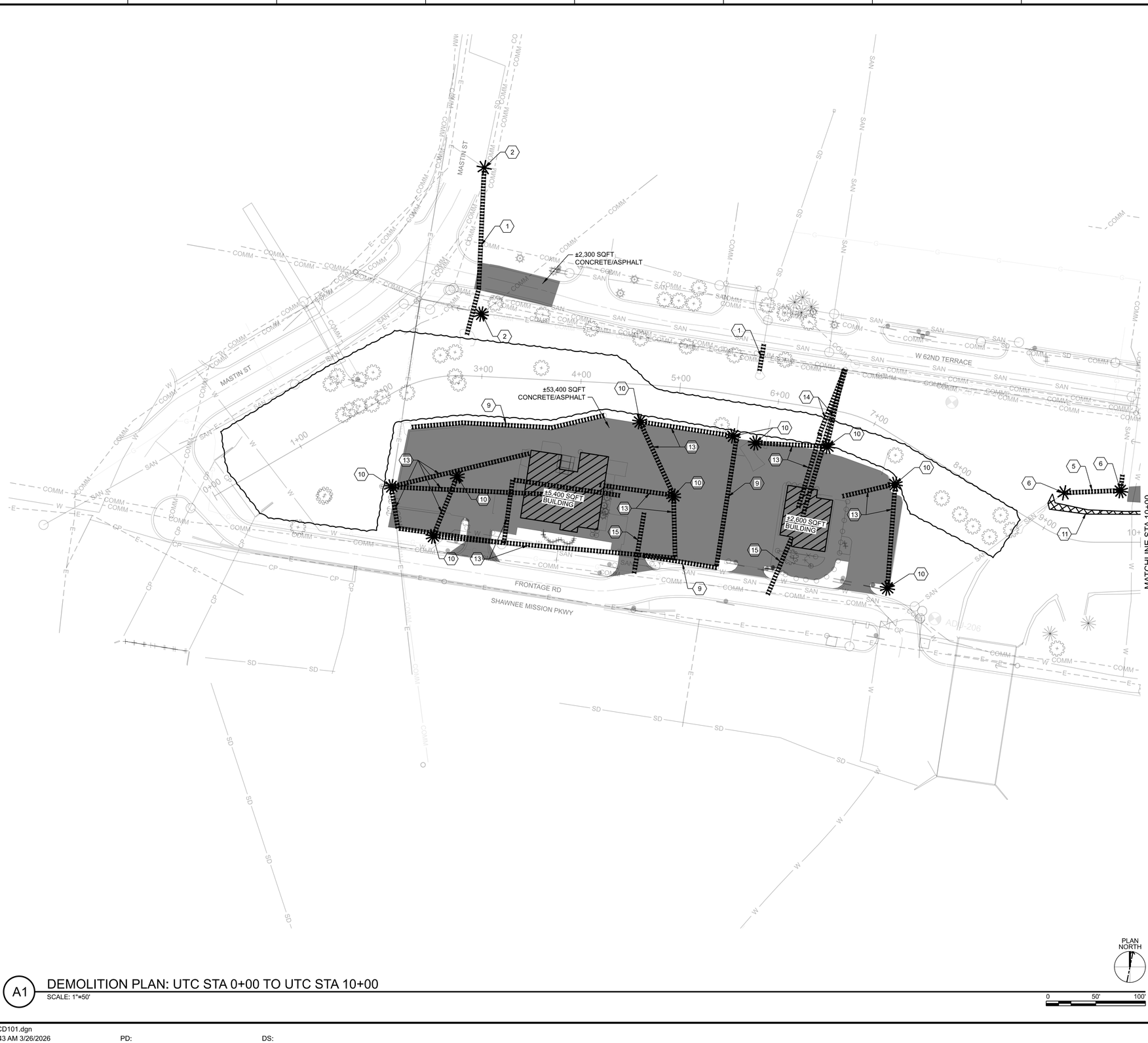

A1 DEMOLITION PLAN: UTC STA 0+00 TO UTC STA 10+00
SCALE: 1"=50'

GENERAL NOTES

1. SEE SPECIFICATION 02 41 00 DEMOLITION FOR REMOVAL REQUIREMENTS.
2. BUILDING DEMOLITION INCLUDES ALL FEATURES ABOVE GROUND AND ALL FEATURES MINIMUM 5 FT BELOW GROUND SURFACE.
3. ASPHALT/CONCRETE DEMOLITION INCLUDES FULL DEPTH REMOVAL.
4. ADDITIONAL CLEARING OF TREES AND SHRUBS MAY BE NEEDED OUTSIDE OF DEFINED CLEARING AND GRUBBING LIMITS. CONFIRM REMOVAL WITH CONTRACTING OFFICER REPRESENTATIVE PRIOR TO REMOVAL.

SHEET KEYNOTES

1. REMOVE STORM SEWER LINE. SEE V & CG SHEETS FOR SIZE AND DEPTH.
2. REMOVE STORM SEWER INLET. SEE V & CG SHEETS FOR SIZE AND DEPTH.
3. NOT USED.
4. NOT USED.
5. REMOVE SANITARY SEWER LINE. SEE V SHEETS FOR SIZE AND DEPTH.
6. REMOVE SANITARY SEWER MANHOLE. SEE V SHEETS FOR SIZE AND DEPTH.
7. NOT USED.
8. NOT USED.
9. REMOVE FENCE LINE. FENCE REMOVAL INCLUDES FULL DEPTH OF POSTS.
10. REMOVE POWER/LIGHT POLE. REMOVAL INCLUDES MINIMUM OF 3 FT REMOVAL OF POST/FOUNDATION BELOW GRADE.
11. REMOVE LIMESTONE BLOCK RETAINING WALL. STOCKPILE BLOCKS FOR REUSE PENDING CONTRACTING OFFICER APPROVAL.
12. NOT USED.
13. REMOVE UNDERGROUND COMMUNICATION/ELECTRIC LINE. ASSUME REMOVAL DEPTH IS APPROXIMATELY 2 FT.
14. REMOVE OVERHEAD COMMUNICATION/ELECTRIC LINE.
15. REMOVE GAS SERVICE LINE. ASSUME REMOVAL DEPTH IS APPROXIMATELY 3 FT.
16. NOT USED.
17. NOT USED.

LEGEND

- DEMOLISH AREA OF PAVEMENT SURFACE
- DEMOLISH BUILDING OR STRUCTURE
- ABANDON LINEAR FEATURE
- DEMOLISH LINEAR FEATURE
- DEMOLISH AREA OF MATERIAL
- CLEAR AND GRUB AREA
- ABANDON UTILITY STRUCTURE
- REMOVE AND REPLACE UTILITY STRUCTURE
- DEMOLISH UTILITY STRUCTURE

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: F. PRITT
DRAWN BY: F. PRITT
CHECKED BY: P. O'CONNELL
SUBMITTED BY:
ISSUE DATE: MARCH 2026
SOLICITATION NO.:
SEE COVER SHEET
CONTRACT NO.:
FILE NO.:
SIZE: ANSI D
FILE NAME: UTC_CD101.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

DEMOLITION PLANS
STA 0+00 TO STA 10+00

SHEET ID
CD101

pw:\\PWINT-WPC.EIS.DS.USACE.ARMY.MIL:CENWK - Kansas City District\Documents\CWA\TurkeyCr\505229_Upper_Turkey_Creek\6.0 Engineering-Design\6.1 Drawings\CAD_BIM\

GENERAL NOTES

1. SEE SPECIFICATION 02 41 00 DEMOLITION FOR REMOVAL REQUIREMENTS.
2. BUILDING DEMOLITION INCLUDES ALL FEATURES ABOVE GROUND AND ALL FEATURES MINIMUM 5 FT BELOW GROUND SURFACE.
3. ASPHALT/CONCRETE DEMOLITION INCLUDES FULL DEPTH REMOVAL.
4. ADDITIONAL CLEARING OF TREES AND SHRUBS MAY BE NEEDED OUTSIDE OF DEFINED CLEARING AND GRUBBING LIMITS. CONFIRM REMOVAL WITH CONTRACTING OFFICER REPRESENTATIVE PRIOR TO REMOVAL.

SHEET KEYNOTES

1. REMOVE STORM SEWER LINE. SEE V & CG SHEETS FOR SIZE AND DEPTH.
2. REMOVE STORM SEWER INLET. SEE V & CG SHEETS FOR SIZE AND DEPTH.
3. NOT USED.
4. NOT USED.
5. REMOVE SANITARY SEWER LINE. SEE V SHEETS FOR SIZE AND DEPTH.
6. REMOVE SANITARY SEWER MANHOLE. SEE V SHEETS FOR SIZE AND DEPTH.
7. ABANDON SANITARY SEWER LINE. SEE V SHEETS FOR SIZE.
8. NOT USED.
9. NOT USED.
10. REMOVE POWER/LIGHT POLE. REMOVAL INCLUDES MINIMUM 3 FT REMOVAL OF POST/FOUNDATION BELOW GRADE.
11. REMOVE LIMESTONE BLOCK RETAINING WALL. STOCKPILE BLOCKS FOR REUSE PENDING CONTRACTING OFFICER APPROVAL.
12. NOT USED.
13. NOT USED.
14. NOT USED.
15. NOT USED.
16. NOT USED.
17. REMOVE WATER HYDRANT.

MATCHLINE STA 10+00
SEE SHEET CD102

MATCHLINE STA 20+00
SEE SHEET CD103

±4,500 SQFT
CONCRETE/ASPHALT

±3,200 SQFT
CONCRETE/ASPHALT

±750 SQFT
CONCRETE/ASPHALT

W 62ND ST

MERRIAM DR

PLAN NORTH

0 50' 100'

LEGEND

- DEMOLISH AREA OF PAVEMENT SURFACE
- DEMOLISH BUILDING OR STRUCTURE
- ABANDON LINEAR FEATURE
- DEMOLISH LINEAR FEATURE
- DEMOLISH AREA OF MATERIAL
- CLEAR AND GRUB AREA
- ABANDON UTILITY STRUCTURE
- REMOVE AND REPLACE UTILITY STRUCTURE
- DEMOLISH UTILITY STRUCTURE

A1 DEMOLITION PLAN: UTC STA 10+00 TO UTC STA 20+00
SCALE: 1"=50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: F. PRITT
DRAWN BY: F. PRITT
CHECKED BY: P. O'CONNELL
SUBMITTED BY:
SIZE: ANSI D
ISSUE DATE: MARCH 2026
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.:
FILE NO.:
FILE NAME: UTC_CD102.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

DEMOLITION PLANS
STA 10+00 TO STA 20+00

SHEET ID
CD102

pw:\\PWINT-WPC.EIS.DS.USACE.ARMY.MIL:CENWK - Kansas City District\Documents\CWA\TurkeyCr\505229_Upper Turkey Creek\6.0 Engineering-Design\6.1 Drawings\CAD_BIM\

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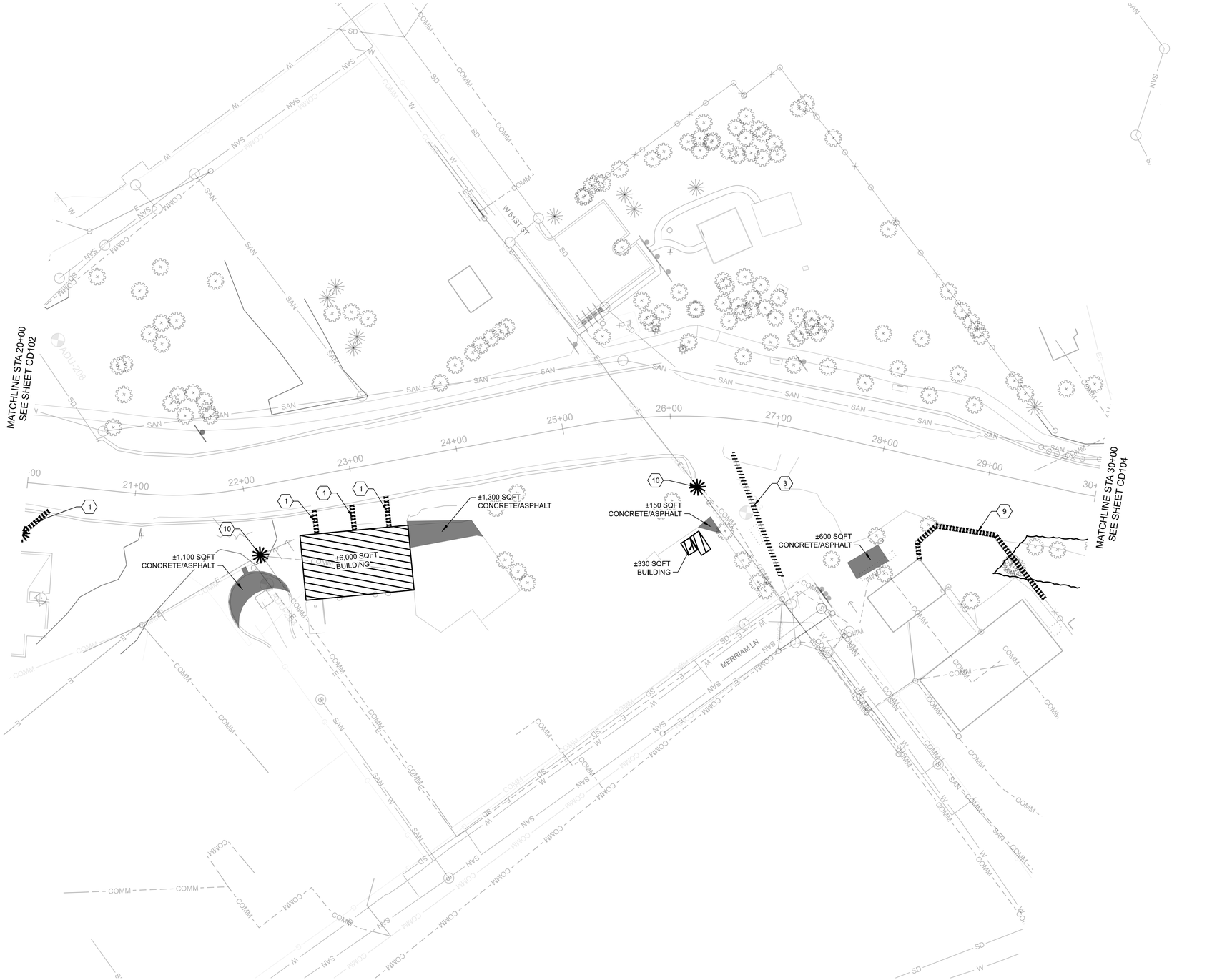

GENERAL NOTES

1. SEE SPECIFICATION 02 41 00 DEMOLITION FOR REMOVAL REQUIREMENTS.
2. BUILDING DEMOLITION INCLUDES ALL FEATURES ABOVE GROUND AND ALL FEATURES MINIMUM 5 FT BELOW GROUND SURFACE.
3. ASPHALT/CONCRETE DEMOLITION INCLUDES FULL DEPTH REMOVAL.
4. ADDITIONAL CLEARING OF TREES AND SHRUBS MAY BE NEEDED OUTSIDE OF DEFINED CLEARING AND GRUBBING LIMITS. CONFIRM REMOVAL WITH CONTRACTING OFFICER REPRESENTATIVE PRIOR TO REMOVAL.

SHEET KEYNOTES

1. REMOVE STORM SEWER LINE. SEE V & CG SHEETS FOR SIZE AND DEPTH.
2. NOT USED.
3. ABANDON STORM SEWER LINE. SEE V & CG SHEETS FOR SIZE.
4. NOT USED.
5. NOT USED.
6. NOT USED.
7. NOT USED.
8. NOT USED.
9. REMOVE FENCE LINE. FENCE REMOVAL INCLUDES FULL DEPTH OF POSTS.
10. REMOVE POWER/LIGHT POLE. REMOVAL INCLUDES MINIMUM 3 FT REMOVAL OF POST/FOUNDATION BELOW GRADE.
11. NOT USED.
12. NOT USED.
13. NOT USED.
14. NOT USED.
15. NOT USED.
16. NOT USED.
17. NOT USED.

LEGEND

- DEMOLISH AREA OF PAVEMENT SURFACE
- DEMOLISH BUILDING OR STRUCTURE
- ABANDON LINEAR FEATURE
- DEMOLISH LINEAR FEATURE
- DEMOLISH AREA OF MATERIAL
- CLEAR AND GRUB AREA
- ABANDON UTILITY STRUCTURE
- REMOVE AND REPLACE UTILITY STRUCTURE
- DEMOLISH UTILITY STRUCTURE

A1 DEMOLITION PLAN: UTC STA 20+00 TO UTC STA 30+00
SCALE: 1"=50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH 2026
SOLICITATION NO.:
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CONTRACT NO.:
FILE NO.:

DESIGNED BY: F. PRITT
DRAWN BY: F. PRITT
CHECKED BY: P. O'CONNELL
SUBMITTED BY:
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FILE NAME: UTC_CD103.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

DEMOLITION PLANS
STA 20+00 TO STA 30+00

SHEET ID
CD103

pw:\\PWINT-WPC.EIS.DS.USACE.ARMY.MIL:CENWK - Kansas City District\Documents\CW\TurkeyCr\505229_Upper_Turkey_Creek\6.0 Engineering-Design\6.1 Drawings\CAD_BIM\

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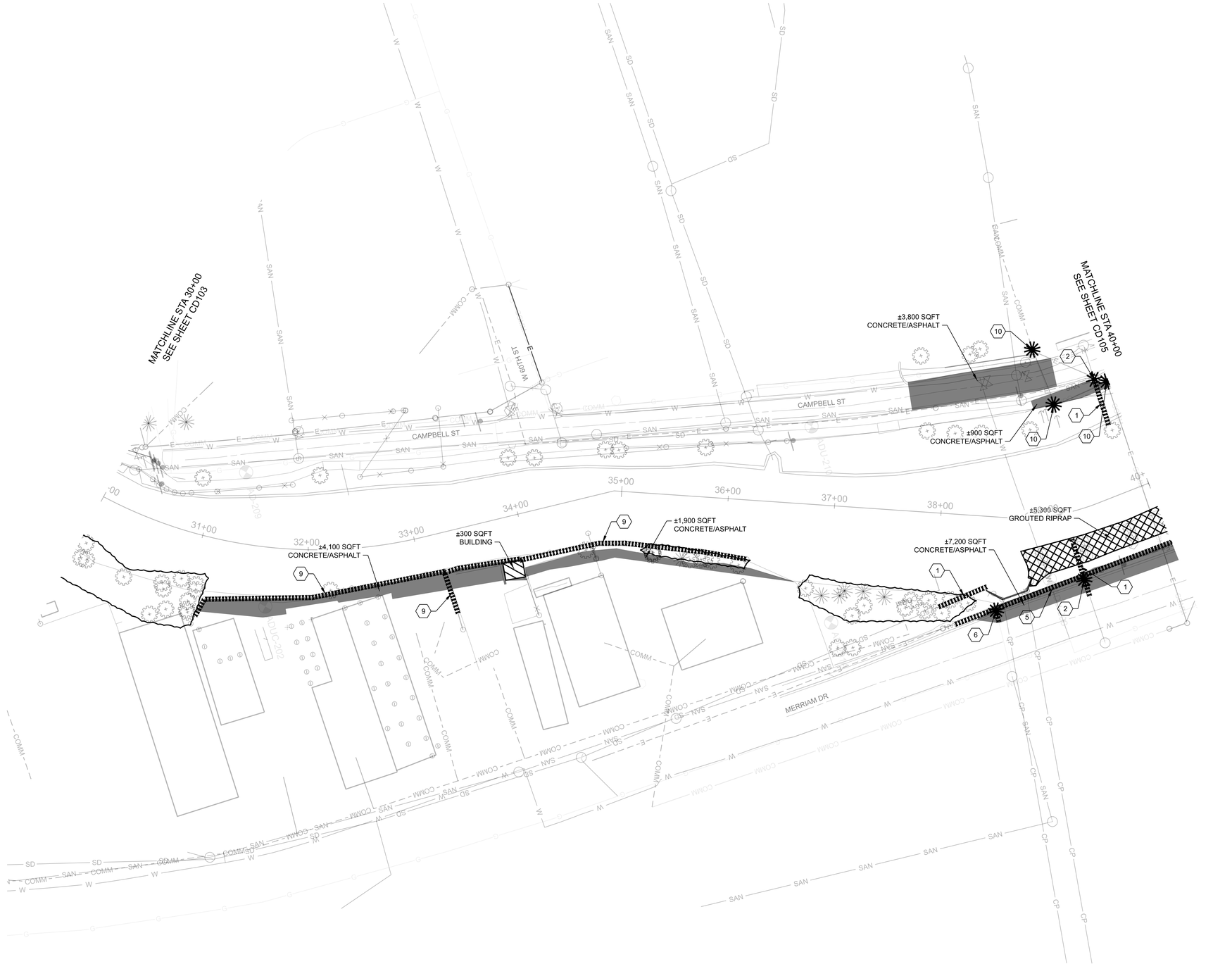

A1 DEMOLITION PLAN: UTC STA 30+00 TO UTC STA 40+00
SCALE: 1"=50'

GENERAL NOTES

1. SEE SPECIFICATION 02 41 00 DEMOLITION FOR REMOVAL REQUIREMENTS.
2. BUILDING DEMOLITION INCLUDES ALL FEATURES ABOVE GROUND AND ALL FEATURES MINIMUM 5 FT BELOW GROUND SURFACE.
3. ASPHALT/CONCRETE DEMOLITION INCLUDES FULL DEPTH REMOVAL.
4. ADDITIONAL CLEARING OF TREES AND SHRUBS MAY BE NEEDED OUTSIDE OF DEFINED CLEARING AND GRUBBING LIMITS. CONFIRM REMOVAL WITH CONTRACTING OFFICER REPRESENTATIVE PRIOR TO REMOVAL.

SHEET KEYNOTES

1. REMOVE STORM SEWER LINE. SEE V & CG SHEETS FOR SIZE AND DEPTH.
2. REMOVE STORM SEWER INLET. SEE V & CG SHEETS FOR SIZE AND DEPTH.
3. NOT USED.
4. NOT USED.
5. REMOVE SANITARY SEWER LINE. SEE V SHEETS FOR SIZE AND DEPTH.
6. REMOVE SANITARY SEWER MANHOLE. SEE V SHEETS FOR SIZE AND DEPTH.
7. NOT USED.
8. NOT USED.
9. REMOVE FENCE LINE. FENCE REMOVAL INCLUDES FULL DEPTH OF POSTS.
10. REMOVE POWER/LIGHT POLE. REMOVAL INCLUDES MINIMUM 3 FT REMOVAL OF POST/FOUNDATION BELOW GRADE.
11. NOT USED.
12. NOT USED.
13. NOT USED.
14. NOT USED.
15. NOT USED.
16. NOT USED.
17. NOT USED.

LEGEND

- DEMOLISH AREA OF PAVEMENT SURFACE
- DEMOLISH BUILDING OR STRUCTURE
- ABANDON LINEAR FEATURE
- DEMOLISH LINEAR FEATURE
- DEMOLISH AREA OF MATERIAL
- CLEAR AND GRUB AREA
- ABANDON UTILITY STRUCTURE
- REMOVE AND REPLACE UTILITY STRUCTURE
- DEMOLISH UTILITY STRUCTURE

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH 2026
SOLICITATION NO.: SEE COVER SHEET
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DESIGNED BY: F. PRITT
DRAWN BY: F. PRITT
CHECKED BY: P. O'CONNELL
SUBMITTED BY:
DATE:
SIZE: ANSI D
FILE NAME: UTC_CD104.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

DEMOLITION PLANS
STA 30+00 TO STA 40+00

SHEET ID
CD104

pw:\\PWINT-WPC.EIS.DS.USACE.ARMY.MIL:CENWK - Kansas City District\Documents\CW\TurkeyCr\505229_Upper_Turkey_Creek\6.0 Engineering-Design\6.1 Drawings\CAD_BIM\

A1 DEMOLITION PLAN: UTC STA 40+00 TO UTC STA 50+00

SCALE: 1"=50'

GENERAL NOTES

1. SEE SPECIFICATION 02 41 00 DEMOLITION FOR REMOVAL REQUIREMENTS.
2. BUILDING DEMOLITION INCLUDES ALL FEATURES ABOVE GROUND AND ALL FEATURES MINIMUM 5 FT BELOW GROUND SURFACE.
3. ASPHALT/CONCRETE DEMOLITION INCLUDES FULL DEPTH REMOVAL.
4. ADDITIONAL CLEARING OF TREES AND SHRUBS MAY BE NEEDED OUTSIDE OF DEFINED CLEARING AND GRUBBING LIMITS. CONFIRM REMOVAL WITH CONTRACTING OFFICER REPRESENTATIVE PRIOR TO REMOVAL.

SHEET KEYNOTES

1. REMOVE STORM SEWER LINE. SEE V & CG SHEETS FOR SIZE AND DEPTH.
2. REMOVE STORM SEWER INLET. SEE V & CG SHEETS FOR SIZE AND DEPTH.
3. NOT USED.
4. NOT USED.
5. REMOVE SANITARY SEWER LINE. SEE V SHEETS FOR SIZE AND DEPTH.
6. REMOVE SANITARY SEWER MANHOLE. SEE V SHEETS FOR SIZE AND DEPTH.
7. ABANDON SANITARY SEWER LINE. SEE V SHEETS FOR SIZE.
8. ABANDON SANITARY SEWER MANHOLE. SEE V SHEETS FOR SIZE AND DEPTH.
9. REMOVE FENCE LINE. FENCE REMOVAL INCLUDES FULL DEPTH OF POSTS.
10. REMOVE POWER/LIGHT POLE. REMOVAL INCLUDES MINIMUM 3 FT REMOVAL OF POST/FOUNDATION BELOW GRADE.
11. NOT USED.
12. REMOVE CONCRETE RETAINING WALL.
13. NOT USED.
14. NOT USED.
15. NOT USED.
16. NOT USED.
17. NOT USED.

LEGEND

- DEMOLISH AREA OF PAVEMENT SURFACE
- DEMOLISH BUILDING OR STRUCTURE
- ABANDON LINEAR FEATURE
- DEMOLISH LINEAR FEATURE
- DEMOLISH AREA OF MATERIAL
- CLEAR AND GRUB AREA
- ABANDON UTILITY STRUCTURE
- REMOVE AND REPLACE UTILITY STRUCTURE
- DEMOLISH UTILITY STRUCTURE

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH 2026
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CHECKED BY: P. O'CONNELL
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FILE NAME: UTC_CD105.dgn

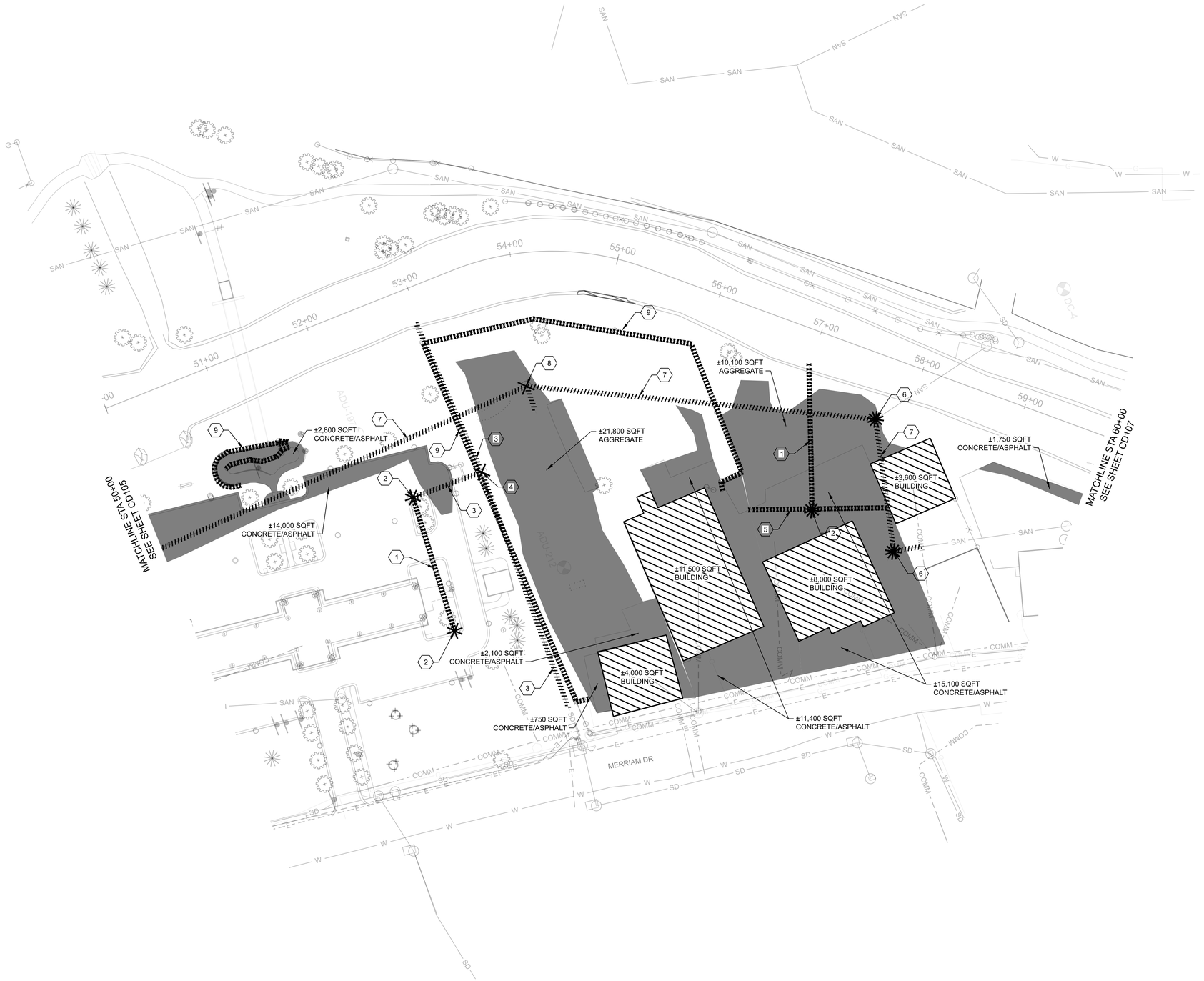
U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

DEMOLITION PLANS
STA 40+00 TO STA 50+00

SHEET ID
CD105



GENERAL NOTES

1. SEE SPECIFICATION 02 41 00 DEMOLITION FOR REMOVAL REQUIREMENTS.
2. BUILDING DEMOLITION INCLUDES ALL FEATURES ABOVE GROUND AND ALL FEATURES MINIMUM 5 FT BELOW GROUND SURFACE.
3. ASPHALT/CONCRETE DEMOLITION INCLUDES FULL DEPTH REMOVAL.
4. ADDITIONAL CLEARING OF TREES AND SHRUBS MAY BE NEEDED OUTSIDE OF DEFINED CLEARING AND GRUBBING LIMITS. CONFIRM REMOVAL WITH CONTRACTING OFFICER REPRESENTATIVE PRIOR TO REMOVAL.

SHEET KEYNOTES

1. REMOVE STORM SEWER LINE. SEE V & CG SHEETS FOR SIZE AND DEPTH.
2. REMOVE STORM SEWER INLET. SEE V & CG SHEETS FOR SIZE AND DEPTH.
3. ABANDON STORM SEWER LINE. SEE V & CG SHEETS FOR SIZE.
4. ABANDON STORM SEWER INLET. SEE V & CG SHEETS FOR SIZE AND DEPTH.
5. REMOVE SANITARY SEWER LINE. SEE V SHEETS FOR SIZE AND DEPTH.
6. REMOVE SANITARY SEWER MANHOLE. SEE V SHEETS FOR SIZE AND DEPTH.
7. NOT USED.
8. NOT USED.
9. REMOVE FENCE LINE. FENCE REMOVAL INCLUDES FULL DEPTH OF POSTS.
10. NOT USED.
11. NOT USED.
12. NOT USED.
13. NOT USED.
14. NOT USED.
15. NOT USED.
16. NOT USED.
17. NOT USED.

LEGEND

- DEMOLISH AREA OF PAVEMENT SURFACE
- DEMOLISH BUILDING OR STRUCTURE
- ABANDON LINEAR FEATURE
- DEMOLISH LINEAR FEATURE
- DEMOLISH AREA OF MATERIAL
- CLEAR AND GRUB AREA
- ABANDON UTILITY STRUCTURE
- REMOVE AND REPLACE UTILITY STRUCTURE
- DEMOLISH UTILITY STRUCTURE

A1 DEMOLITION PLAN: UTC STA 50+00 TO UTC STA 60+00
SCALE: 1"=50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: F. PRITT
DRAWN BY: F. PRITT
CHECKED BY: P. O'CONNELL
SUBMITTED BY:
SIZE: ANSI D
ISSUE DATE: MARCH 2026
SOLICITATION NO.: SEE COVER SHEET
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FILE NO.:
FILE NAME: UTC_CD106.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

DEMOLITION PLANS
STA 50+00 TO STA 60+00

SHEET ID
CD106

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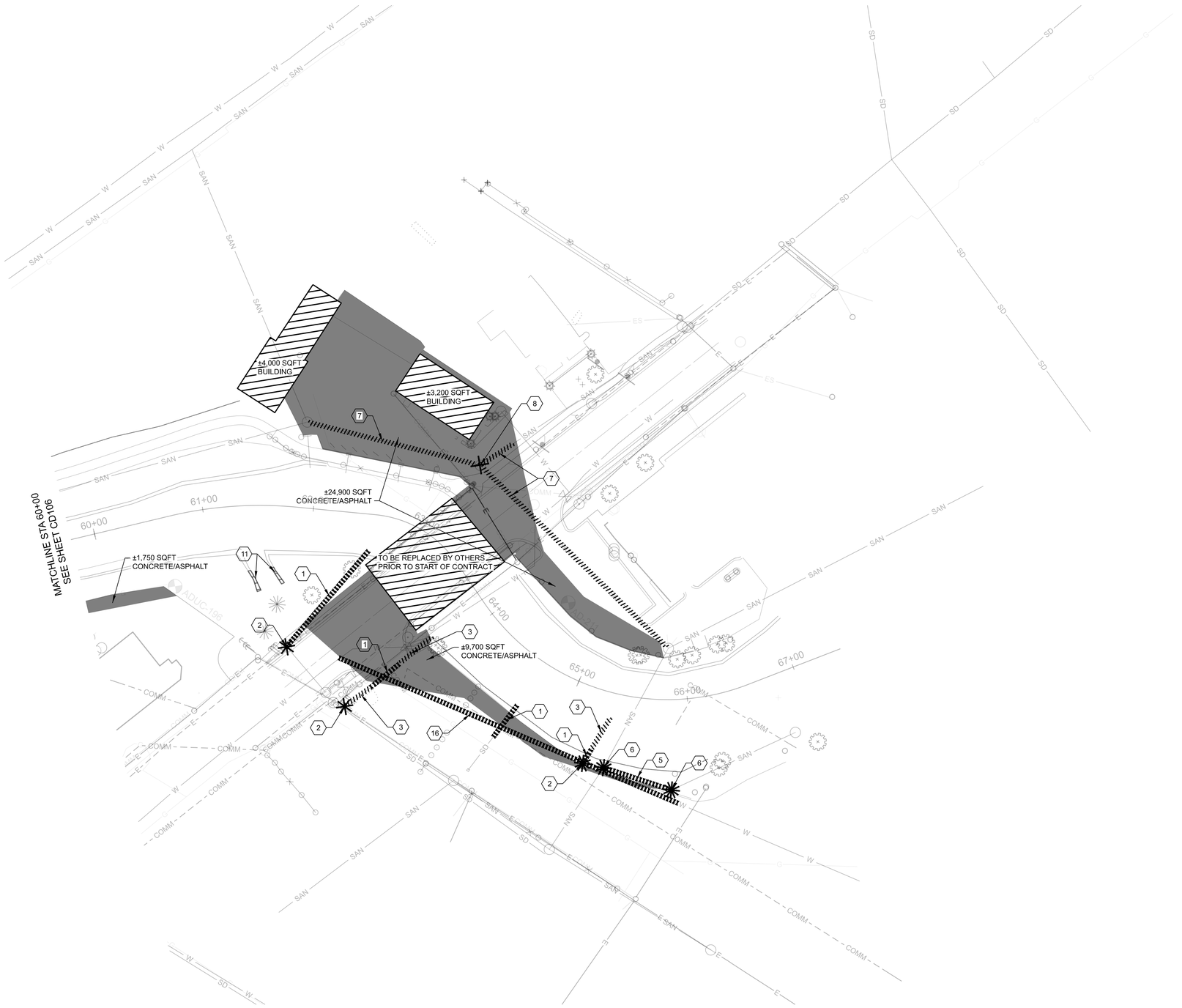

A1 DEMOLITION PLAN: UTC STA 60+00 TO UTC STA 67+41

SCALE: 1"=50'

PLAN NORTH

0 50' 100'

GENERAL NOTES

1. SEE SPECIFICATION 02 41 00 DEMOLITION FOR REMOVAL REQUIREMENTS.
2. BUILDING DEMOLITION INCLUDES ALL FEATURES ABOVE GROUND AND ALL FEATURES MINIMUM 5 FT BELOW GROUND SURFACE.
3. ASPHALT/CONCRETE DEMOLITION INCLUDES FULL DEPTH REMOVAL.
4. ADDITIONAL CLEARING OF TREES AND SHRUBS MAY BE NEEDED OUTSIDE OF DEFINED CLEARING AND GRUBBING LIMITS. CONFIRM REMOVAL WITH CONTRACTING OFFICER REPRESENTATIVE PRIOR TO REMOVAL.

SHEET KEYNOTES

1. REMOVE STORM SEWER LINE. SEE V & CG SHEETS FOR SIZE AND DEPTH.
2. REMOVE STORM SEWER INLET. SEE V & CG SHEETS FOR SIZE AND DEPTH.
3. ABANDON STORM SEWER LINE. SEE V & CG SHEETS FOR SIZE.
4. NOT USED.
5. REMOVE SANITARY SEWER LINE. SEE V SHEETS FOR SIZE AND DEPTH.
6. REMOVE SANITARY SEWER MANHOLE. SEE V SHEETS FOR SIZE AND DEPTH.
7. ABANDON SANITARY SEWER LINE. SEE V SHEETS FOR SIZE.
8. ABANDON SANITARY SEWER MANHOLE. SEE V SHEETS FOR SIZE AND DEPTH.
9. NOT USED.
10. NOT USED.
11. REMOVE LIMESTONE BLOCK RETAINING WALL. STOCKPILE BLOCKS FOR REUSE PENDING CONTRACTING OFFICER APPROVAL.
12. NOT USED.
13. NOT USED.
14. NOT USED.
15. NOT USED.
16. REMOVE WATER LINE. ASSUME REMOVAL DEPTH IS APPROXIMATELY 3.5 FT.
17. NOT USED.

LEGEND

- DEMOLISH AREA OF PAVEMENT SURFACE
- DEMOLISH BUILDING OR STRUCTURE
- ABANDON LINEAR FEATURE
- DEMOLISH LINEAR FEATURE
- DEMOLISH AREA OF MATERIAL
- CLEAR AND GRUB AREA
- ABANDON UTILITY STRUCTURE
- REMOVE AND REPLACE UTILITY STRUCTURE
- DEMOLISH UTILITY STRUCTURE

US Army Corps of Engineers®

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U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

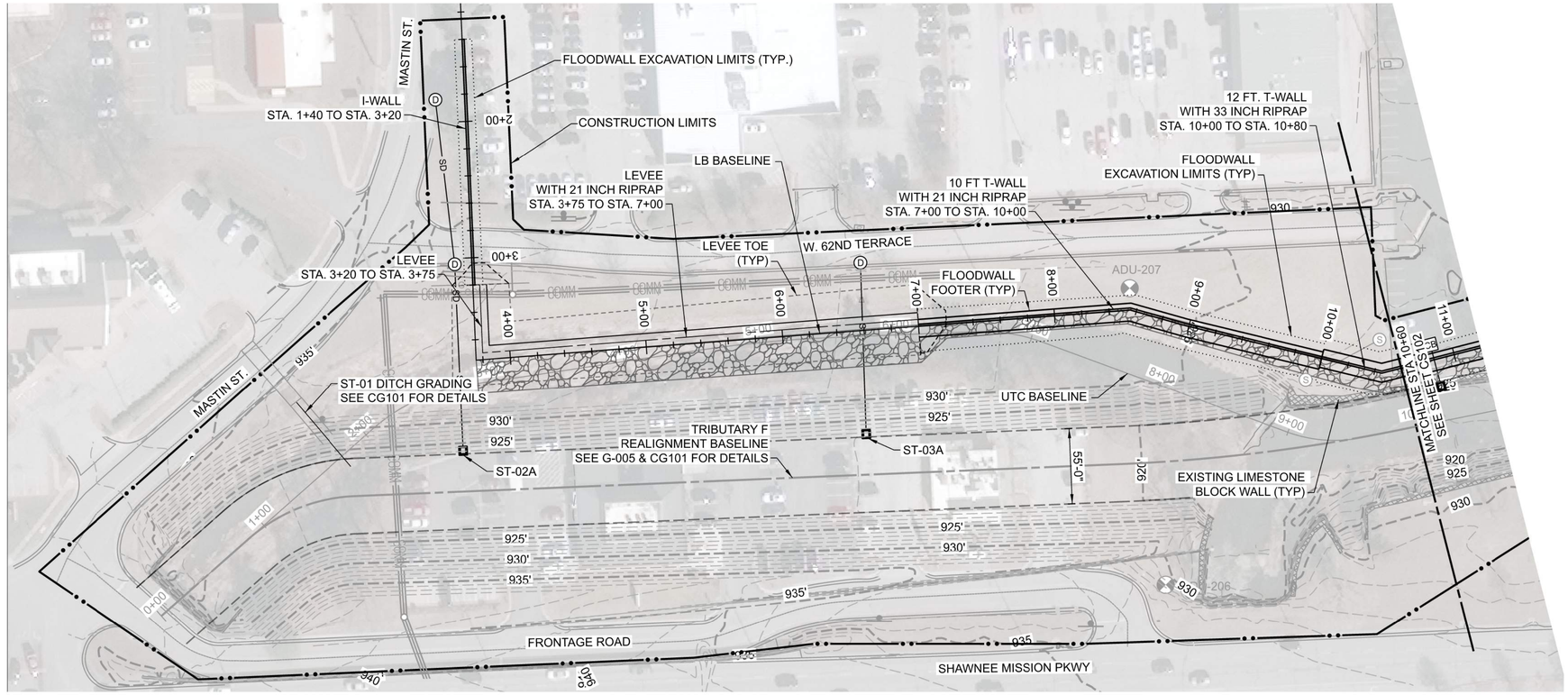
DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

DEMOLITION PLANS
STA 60+00 TO STA 67+41

SHEET ID
CD107

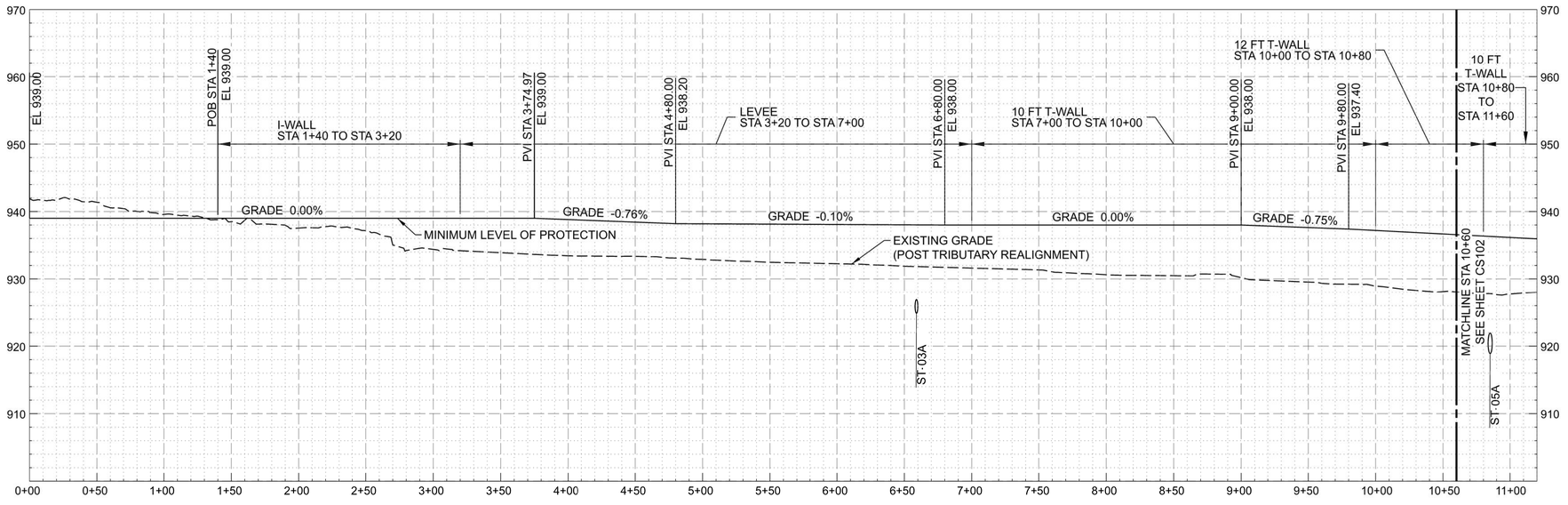
pw:\\PWINT-WPC.EIS.DS.USACE.ARMY.MIL:CSNWK - Kansas City District\Documents\CW\TurkeyCr\505229_Upper_Turkey_Creek\6.0 Engineering-Design\6.1 Drawings\CAD_BIM\



D1 LB PLAN - 1+20 TO 10+60

SCALE: 1"=50'

0 50' 100'



A1 LB PROFILE - 0+00 TO 10+60

SCALE: 1"=50'

0 50' 100'

0 10' 20'

GENERAL SHEET NOTES

1. SEE DEMOLITION SHEETS FOR DEMOLITION DETAILS.
2. SEE CS120 SERIES SHEETS FOR RIGHT BANK FLOOD RISK MANAGEMENT FEATURES.
3. SEE CS301 FOR TYPICAL LEVEE SECTIONS.
4. SEE CG200 SERIES SHEETS FOR TOE DRAIN DETAILS.
5. SEE CG400 SERIES SHEETS FOR STORMWATER STRUCTURE DETAILS.
5. SEE CU SHEETS FOR UTILITY RELOCATIONS.
6. SEE STRUCTURAL SHEETS FOR FLOODWALL AND LEVEE TO FLOODWALL TRANSITION DETAILS.
7. DO NOT DISTURB EXISTING LIMESTONE BLOCK WALL UNLESS NECESSARY FOR CONSTRUCTION. SALVAGE ANY BLOCKS REMOVED DURING CONSTRUCTION AND PLACE IN STOCKPILE WITHIN STAGING AREA ALONG THE RIGHT BANK (LANDSIDE OF LEVEE/FLOODWALL) SOUTH OF W. 61ST STREET UNLESS OTHERWISE DIRECTED BY USACE. ANY SALVAGED BLOCKS ARE PROPERTY OF THE CITY OF MERRIAM/MERRIAM DRAINAGE DISTRICT.
8. BUILDINGS WITHIN 15 FEET OF EXCAVATION REQUIRE ADDITIONAL MONITORING. SEE EM 385-1-1 FOR DETAILS.

US Army Corps of Engineers®

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U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

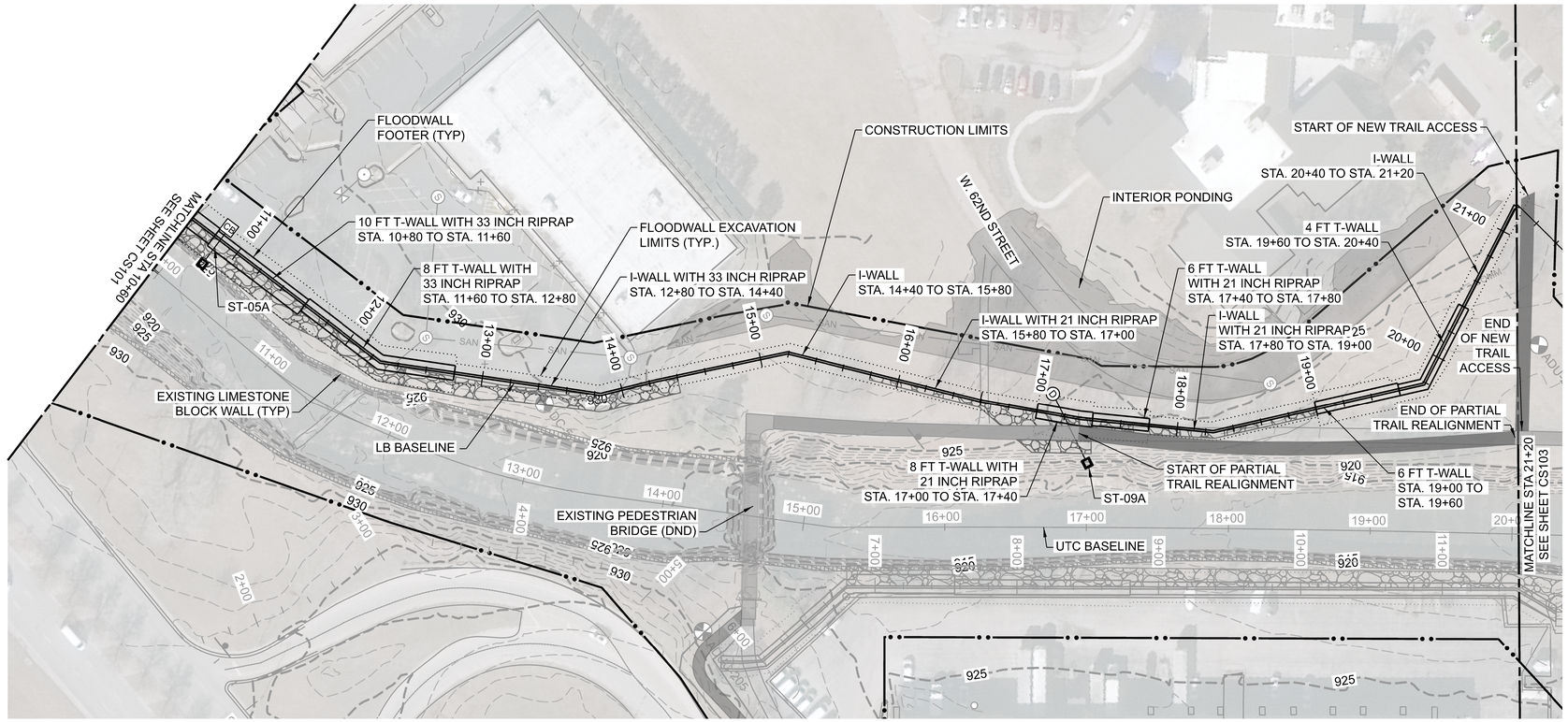
MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

LEFT BANK PLAN AND PROFILE
STA 0+00 TO STA 10+60

SHEET ID

CS101

pw:\\PWINT-WPC.EIS.DS.USACE.ARMY.MIL:CENWK - Kansas City District\Documents\CW\TurkeyCr\505229_Upper_Turkey_Creek\6.0 Engineering-Design\6.1 Drawings\CAD_BIM\



D1 LB PLAN - 10+60 TO 21+20

SCALE: 1"=50'

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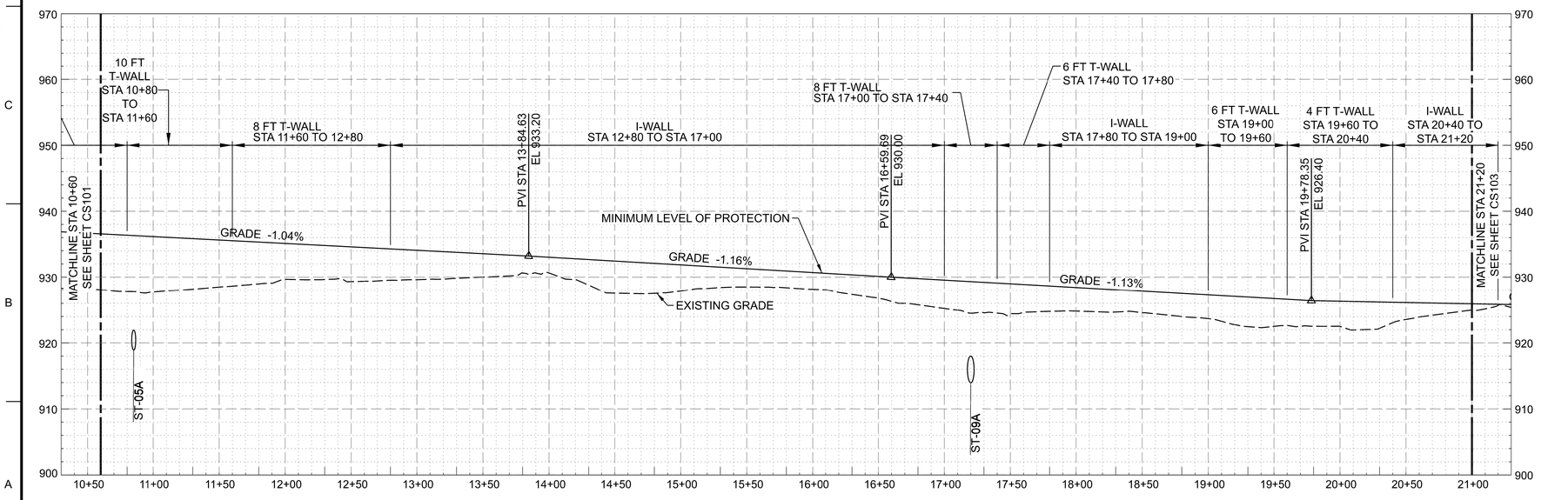

A1 LB PROFILE - 10+60 TO 21+20

SCALE: 1"=50'

0 50' 100'

0 10' 20'

GENERAL SHEET NOTES

1. SEE DEMOLITION SHEETS FOR DEMOLITION DETAILS.
2. SEE CS120 SERIES SHEETS FOR RIGHT BANK FLOOD RISK MANAGEMENT FEATURES.
3. SEE CS301 FOR TYPICAL LEVEE SECTIONS.
4. SEE CG200 SERIES SHEETS FOR TOE DRAIN DETAILS.
5. SEE CG400 SERIES SHEETS FOR STORMWATER STRUCTURE DETAILS.
5. SEE CU SHEETS FOR UTILITY RELOCATIONS.
6. SEE STRUCTURAL SHEETS FOR FLOODWALL AND LEVEE TO FLOODWALL TRANSITION DETAILS.
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U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

LEFT BANK PLAN AND PROFILE
STA 10+60 TO STA 21+20

SHEET ID

CS102

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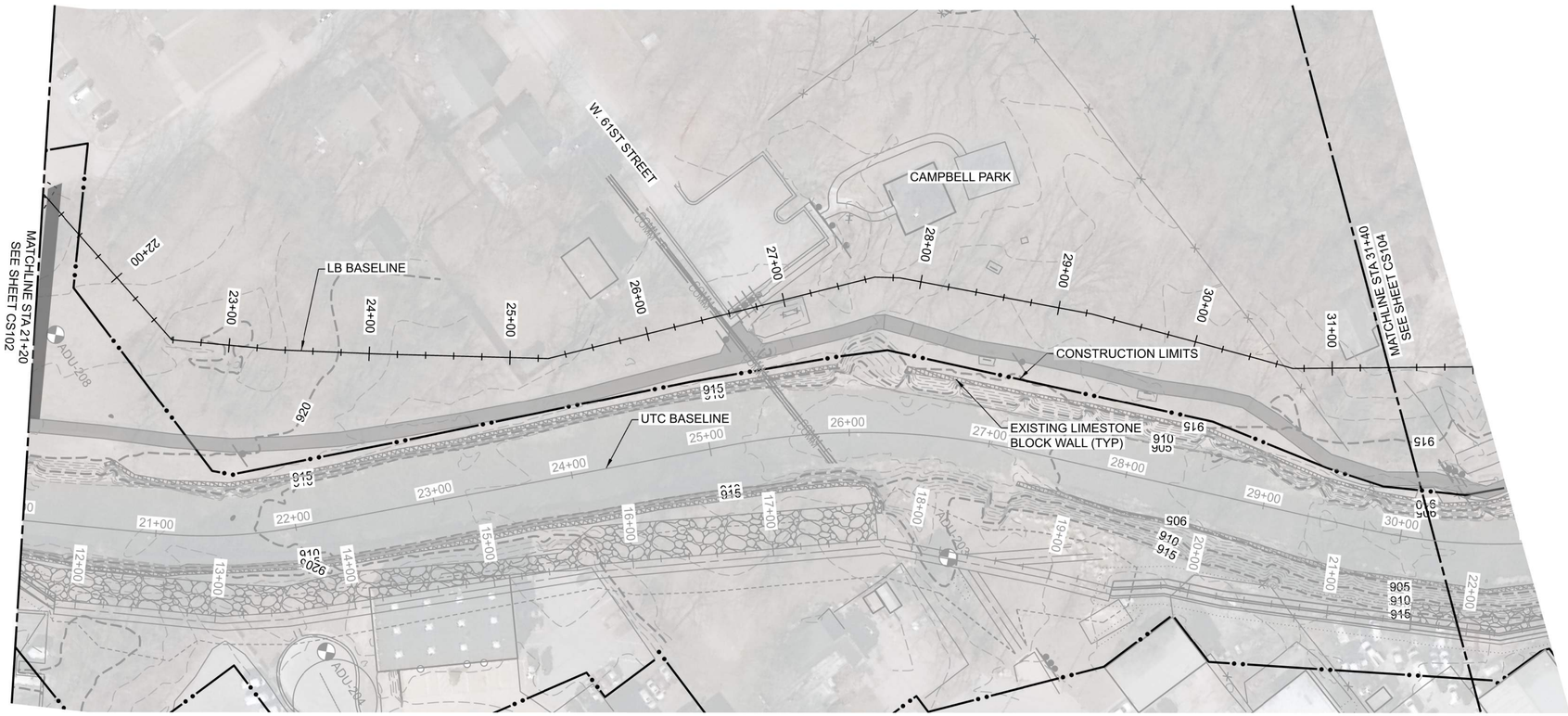


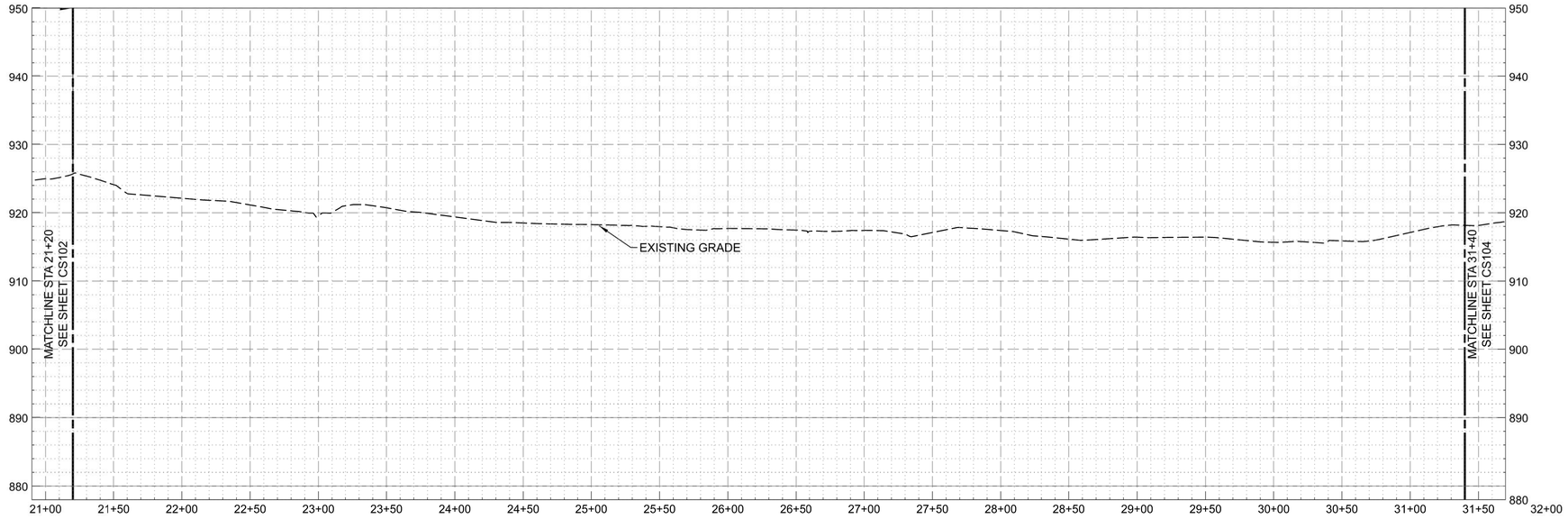
NO LEFT BANK PROTECTION STA. 21+20 TO STA. 40+10.91

PLAN NORTH

D1 LB PLAN - 21+20 TO 31+40

SCALE: 1"=50'

0 50' 100'



A1 LB PROFILE - 21+20 TO 31+40

SCALE: 1"=50'

0 50' 100'

0 10' 20'

GENERAL SHEET NOTES

1. N/A
2. SEE CS120 SERIES SHEETS FOR RIGHT BANK FLOOD RISK MANAGEMENT FEATURES.
3. N/A
4. N/A
5. N/A
6. N/A
7. DO NOT DISTURB EXISTING LIMESTONE BLOCK WALL UNLESS NECESSARY FOR CONSTRUCTION. SALVAGE ANY BLOCKS REMOVED DURING CONSTRUCTION AND PLACE IN STOCKPILE WITHIN STAGING AREA ALONG THE RIGHT BANK (LANDSIDE OF LEVEE/FLOODWALL) SOUTH OF W. 61ST STREET UNLESS OTHERWISE DIRECTED BY USACE. ANY SALVAGED BLOCKS ARE PROPERTY OF THE CITY OF MERRIAM/MERRIAM DRAINAGE DISTRICT.
8. N/A

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U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

LEFT BANK PLAN AND PROFILE
STA 21+20 TO STA 31+40

SHEET ID

CS103

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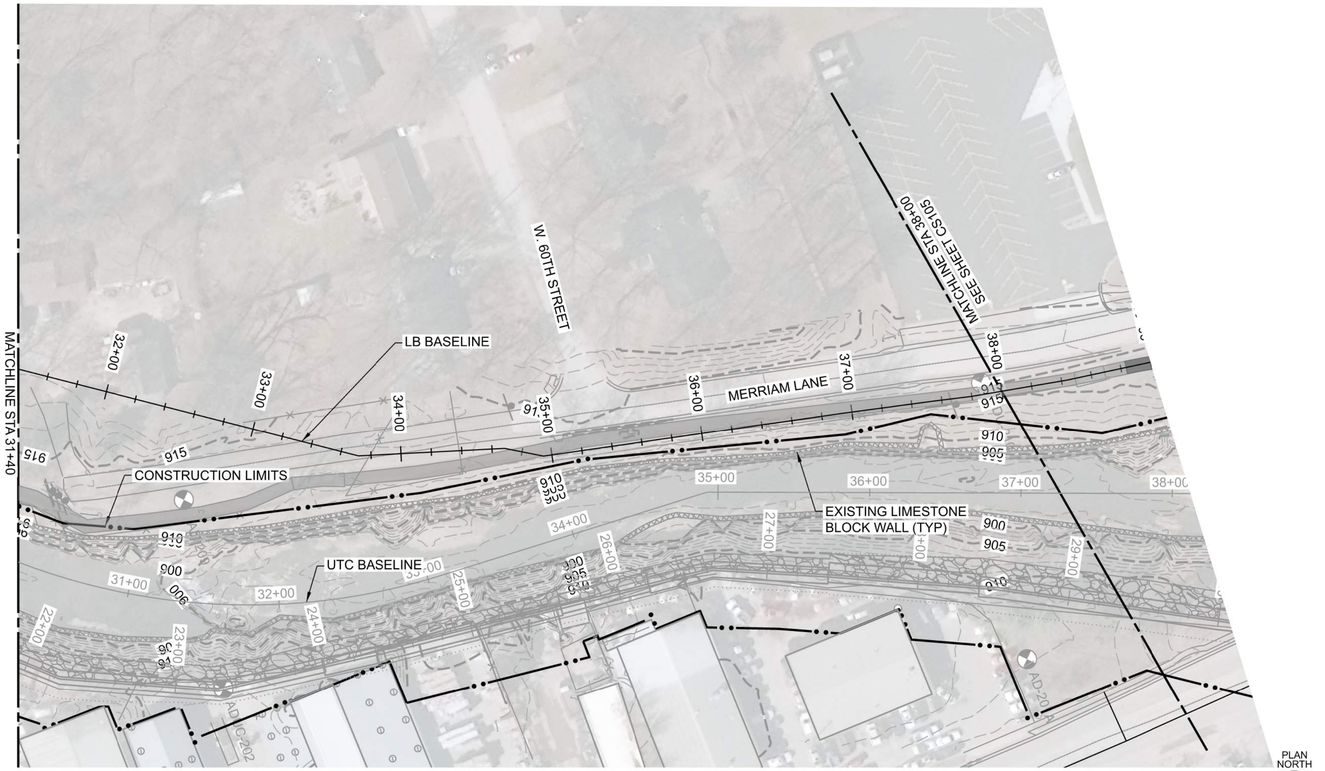
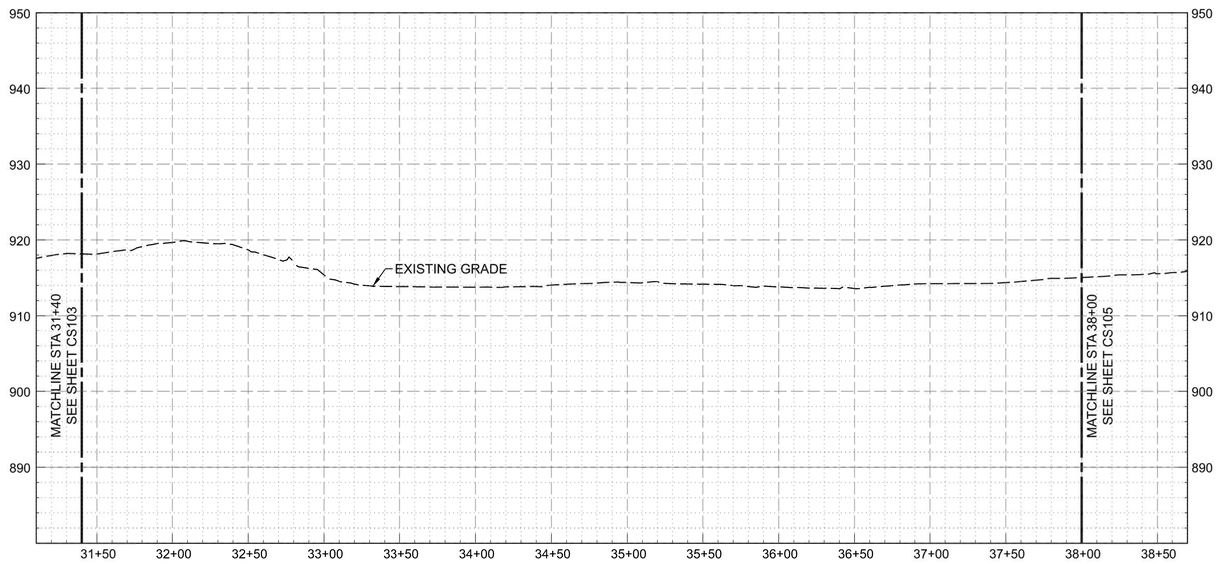


NO LEFT BANK PROTECTION STA. 21+20 TO STA. 40+10.91

D1 LB PLAN - 31+40 TO 38+00

SCALE: 1"=50'

0 50' 100'



D1 LB PROFILE - 31+40 TO 38+00

SCALE: 1"=50'

0 50' 100'

0 10' 20'

GENERAL SHEET NOTES

1. N/A
2. SEE CS120 SERIES SHEETS FOR RIGHT BANK FLOOD RISK MANAGEMENT FEATURES.
3. N/A
4. N/A
5. N/A
6. N/A
7. DO NOT DISTURB EXISTING LIMESTONE BLOCK WALL UNLESS NECESSARY FOR CONSTRUCTION. SALVAGE ANY BLOCKS REMOVED DURING CONSTRUCTION AND PLACE IN STOCKPILE WITHIN STAGING AREA ALONG THE RIGHT BANK (LANDSIDE OF LEVEE/FLOODWALL) SOUTH OF W. 61ST STREET UNLESS OTHERWISE DIRECTED BY USACE. ANY SALVAGED BLOCKS ARE PROPERTY OF THE CITY OF MERRIAM/MERRIAM DRAINAGE DISTRICT.
8. N/A

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KANSAS CITY DISTRICT
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KANSAS CITY, MO 64106

DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

LEFT BANK PLAN AND PROFILE
STA 31+40 TO STA 38+00

SHEET ID

CS104

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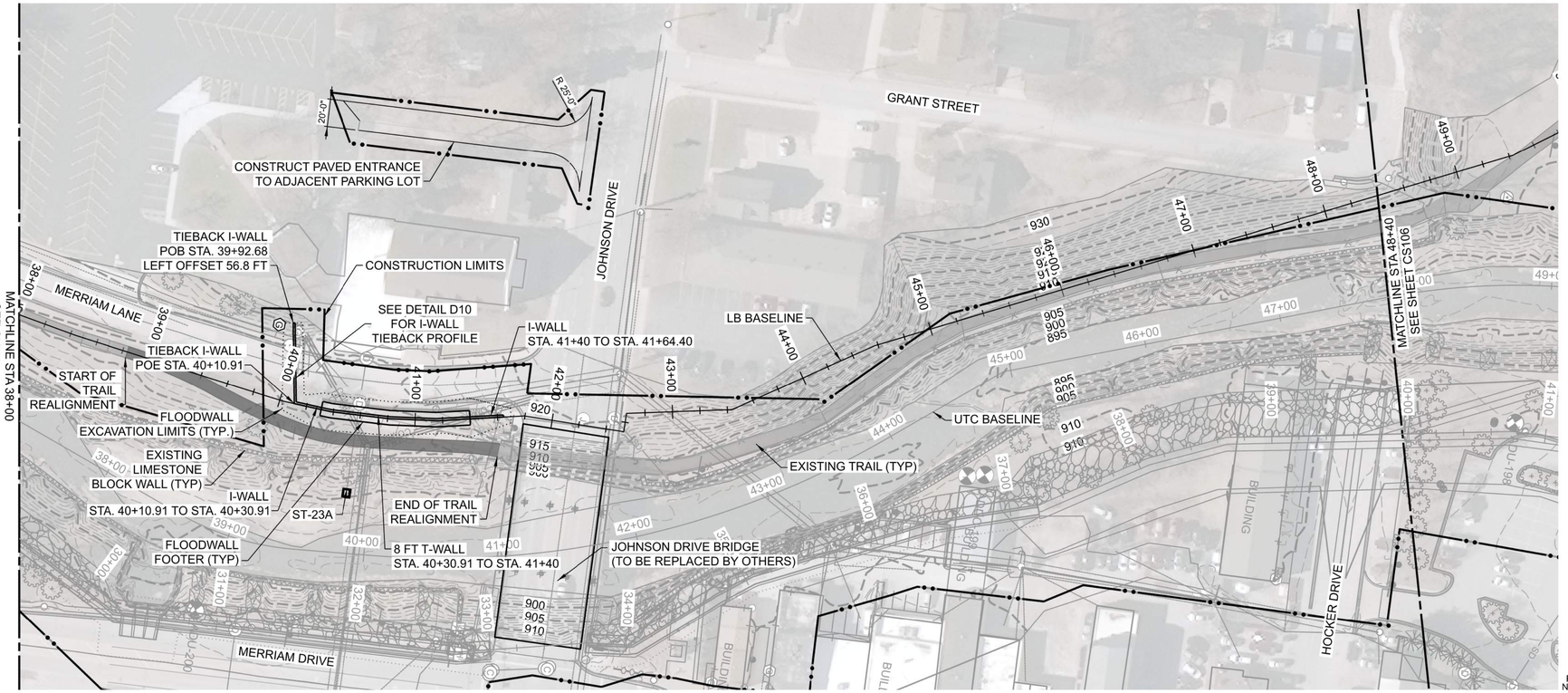

NO LEFT BANK PROTECTION STA. 21+20 TO STA. 40+10.91 & STA. 41+64.40 TO 64+83.96

GENERAL SHEET NOTES

1. SEE DEMOLITION SHEETS FOR DEMOLITION DETAILS.
2. SEE CS120 SERIES SHEETS FOR RIGHT BANK FLOOD RISK MANAGEMENT FEATURES.
3. SEE CS301 FOR TYPICAL LEVEE SECTIONS.
4. SEE CG400 SERIES SHEETS FOR STORMWATER STRUCTURE DETAILS.
5. SEE CU SHEETS FOR UTILITY RELOCATIONS.
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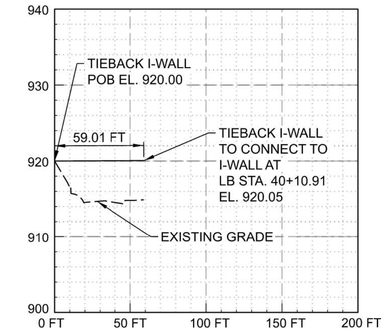
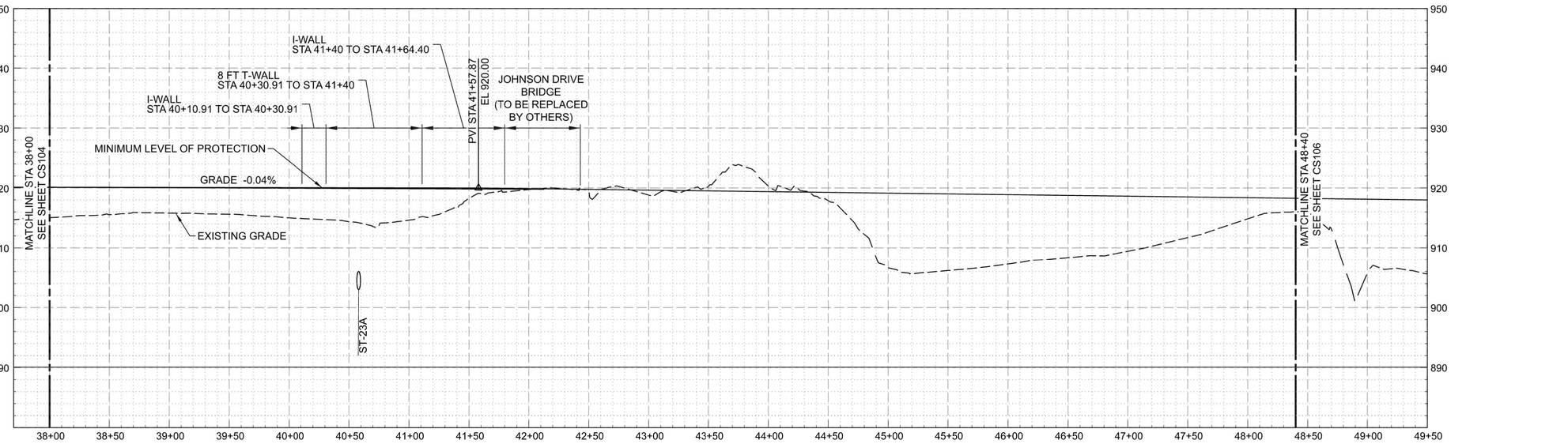


D10 TIEBACK I-WALL PROFILE
SCALE: 1" = 50'

D1 LB PLAN - 38+00 TO 48+80
SCALE: 1"=50'



A1 LB PROFILE - 38+00 TO 48+80
SCALE: 1" = 50'

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MARK	DESCRIPTION	DATE

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KANSAS CITY, MO 64106

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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

LEFT BANK PLAN AND PROFILE
STA 38+00 TO STA 48+40

SHEET ID
CS105

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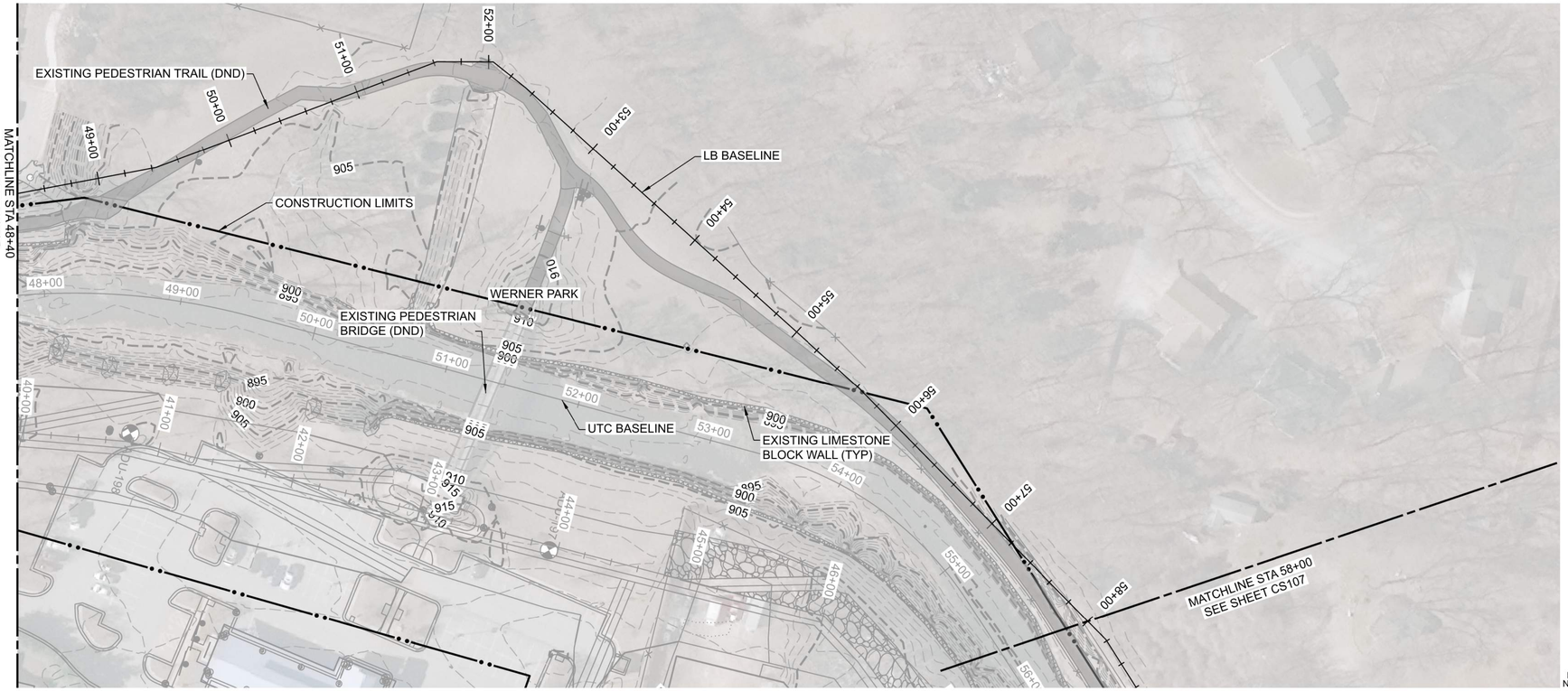


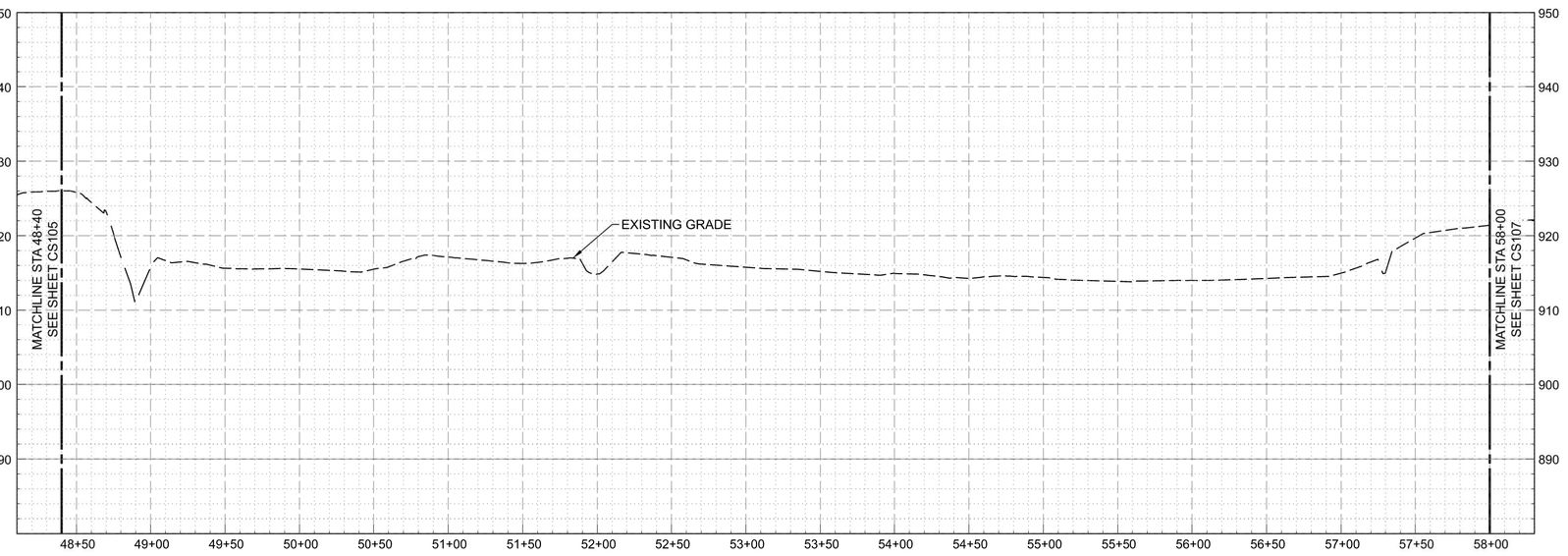
NO LEFT BANK PROTECTION STA. 41+64.40 TO 64+83.96

PLAN NORTH

D1 LB PLAN - 48+40 TO 58+00

SCALE: 1"=50'

0 50' 100'



A1 LB PROFILE - 48+40 TO 58+00

SCALE: 1"=50'

0 50' 100'

0 10' 20'

GENERAL SHEET NOTES

1. N/A
2. SEE CS120 SERIES SHEETS FOR RIGHT BANK FLOOD RISK MANAGEMENT FEATURES.
3. N/A
4. N/A
5. N/A
6. N/A
7. DO NOT DISTURB EXISTING LIMESTONE BLOCK WALL UNLESS NECESSARY FOR CONSTRUCTION. SALVAGE ANY BLOCKS REMOVED DURING CONSTRUCTION AND PLACE IN STOCKPILE WITHIN STAGING AREA ALONG THE RIGHT BANK (LANDSIDE OF LEVEE/FLOODWALL) SOUTH OF W. 61ST STREET UNLESS OTHERWISE DIRECTED BY USACE. ANY SALVAGED BLOCKS ARE PROPERTY OF THE CITY OF MERRIAM/MERRIAM DRAINAGE DISTRICT.
8. N/A

US Army Corps of Engineers®

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U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

LEFT BANK PLAN AND PROFILE
STA 48+40 TO STA 58+00

SHEET ID
CS106

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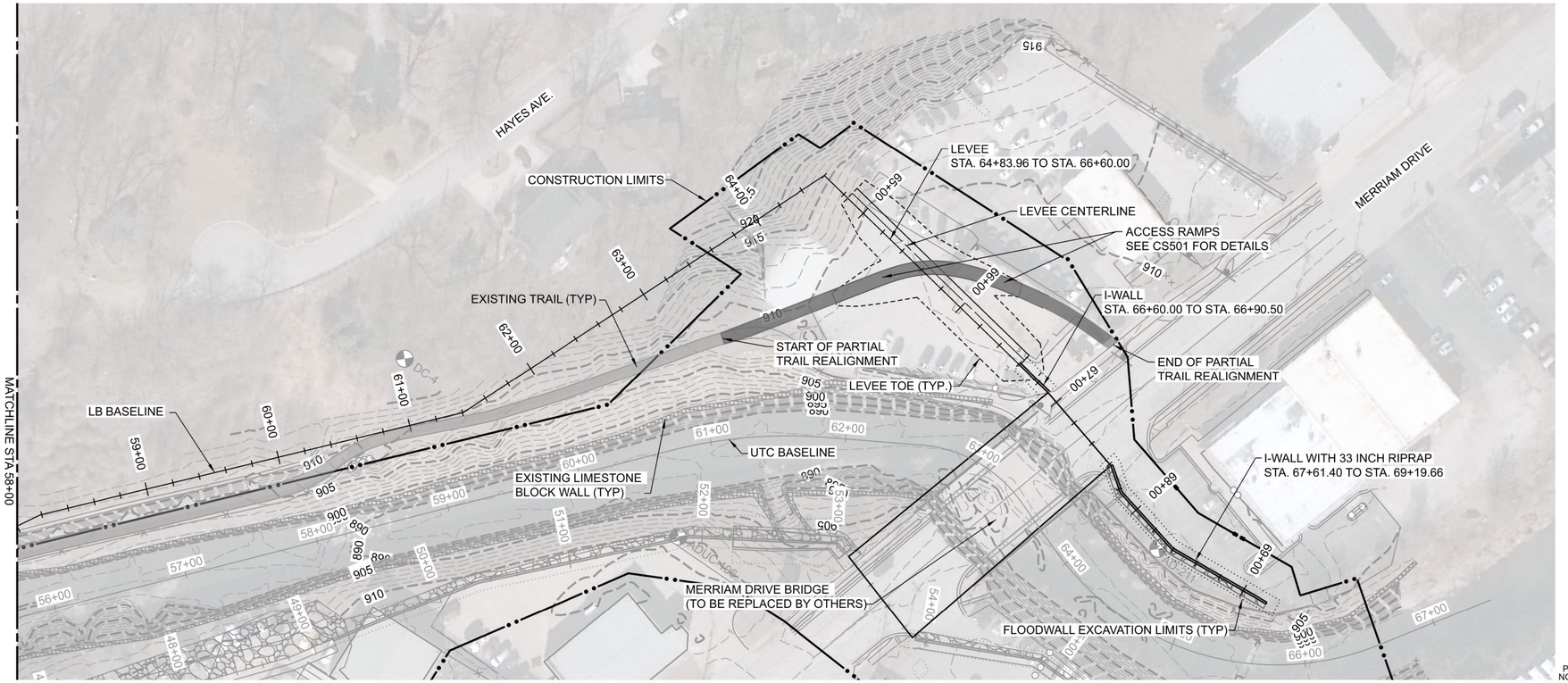
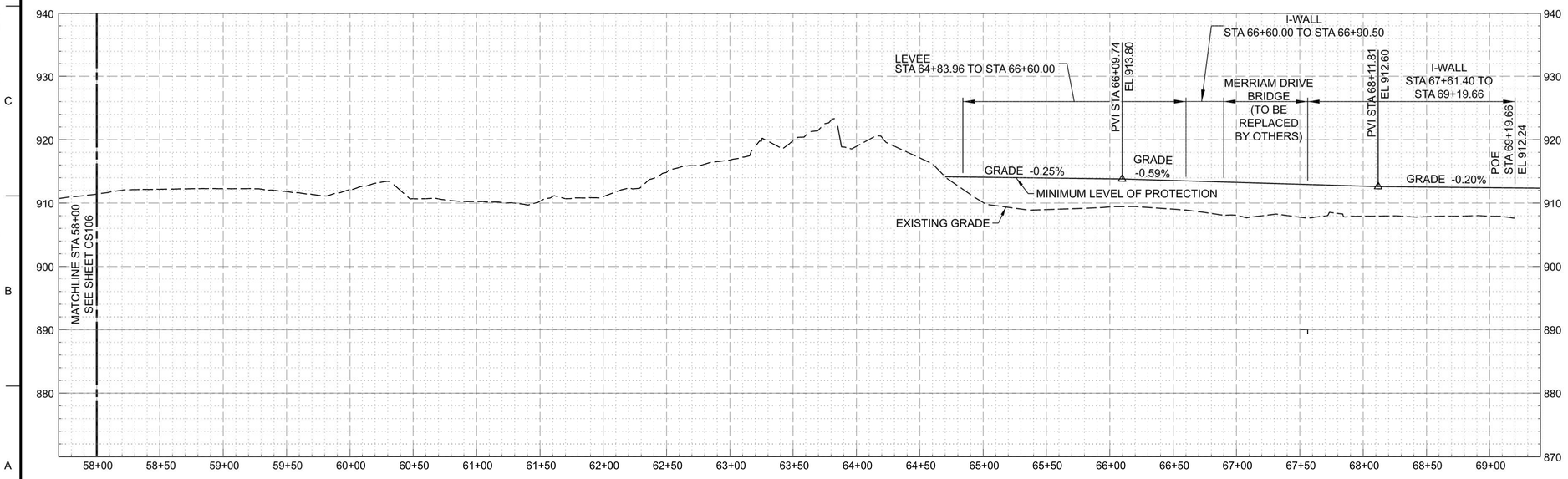


D1 LB PLAN - 58+00 TO 69+40

SCALE: 1"=50'

0 50' 100'



A1 LB PROFILE - 58+00 TO 69+40

SCALE: 1"=50'

0 50' 100'

0 10' 20'

GENERAL SHEET NOTES

1. SEE DEMOLITION SHEETS FOR DEMOLITION DETAILS.
2. SEE CS120 SERIES SHEETS FOR RIGHT BANK FLOOD RISK MANAGEMENT FEATURES.
3. SEE CS301 FOR TYPICAL LEVEE SECTIONS.
4. SEE CG400 SERIES SHEETS FOR STORMWATER STRUCTURE DETAILS.
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KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

LEFT BANK PLAN AND PROFILE
STA 58+00 TO END

SHEET ID

CS107

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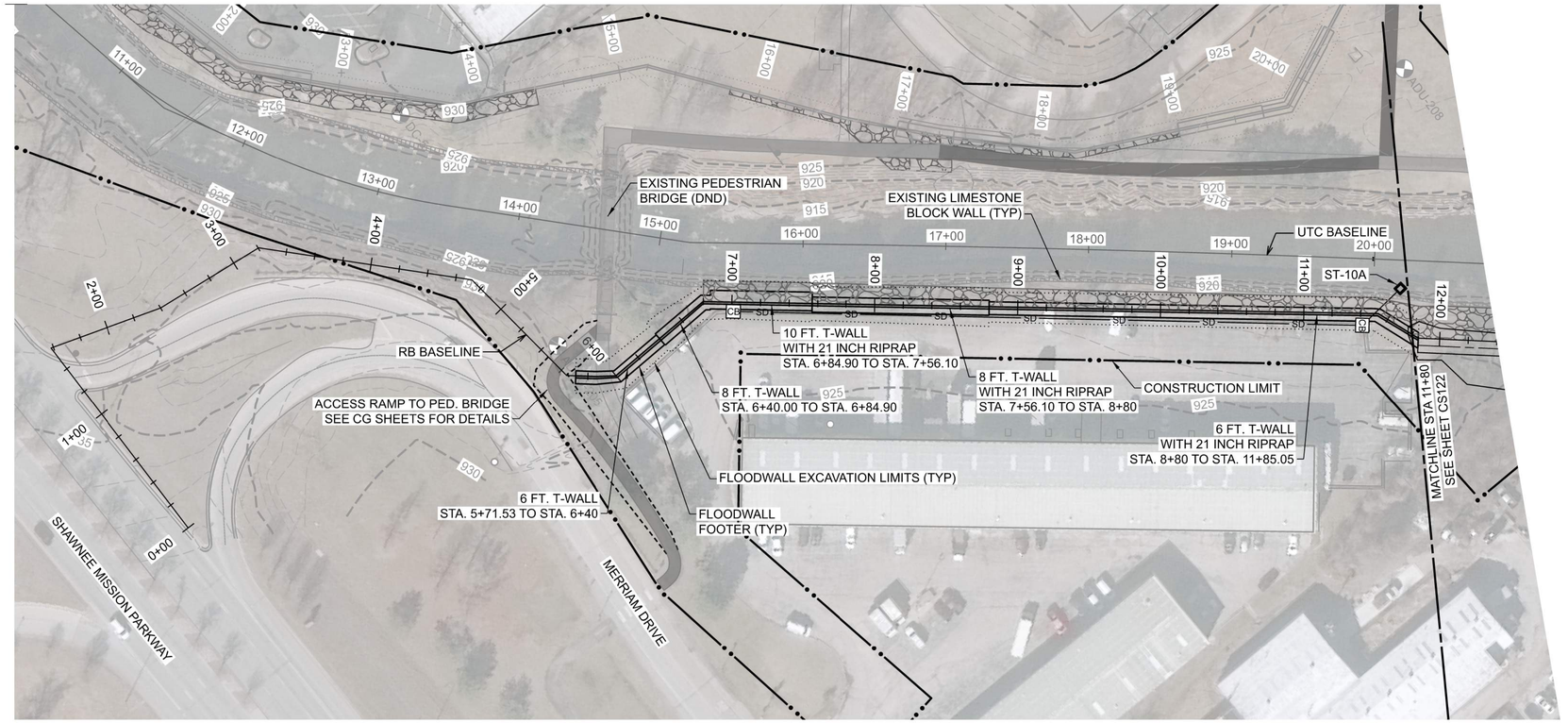

GENERAL SHEET NOTES

1. SEE DEMOLITION SHEETS FOR DEMOLITION DETAILS.
2. SEE CS100 SERIES SHEETS FOR LEFT BANK FLOOD RISK MANAGEMENT FEATURES.
3. SEE CS301 FOR TYPICAL LEVEE SECTIONS.
4. SEE CG400 SERIES SHEETS FOR STORMWATER STRUCTURE DETAILS.
5. SEE CU SHEETS FOR UTILITY RELOCATIONS.
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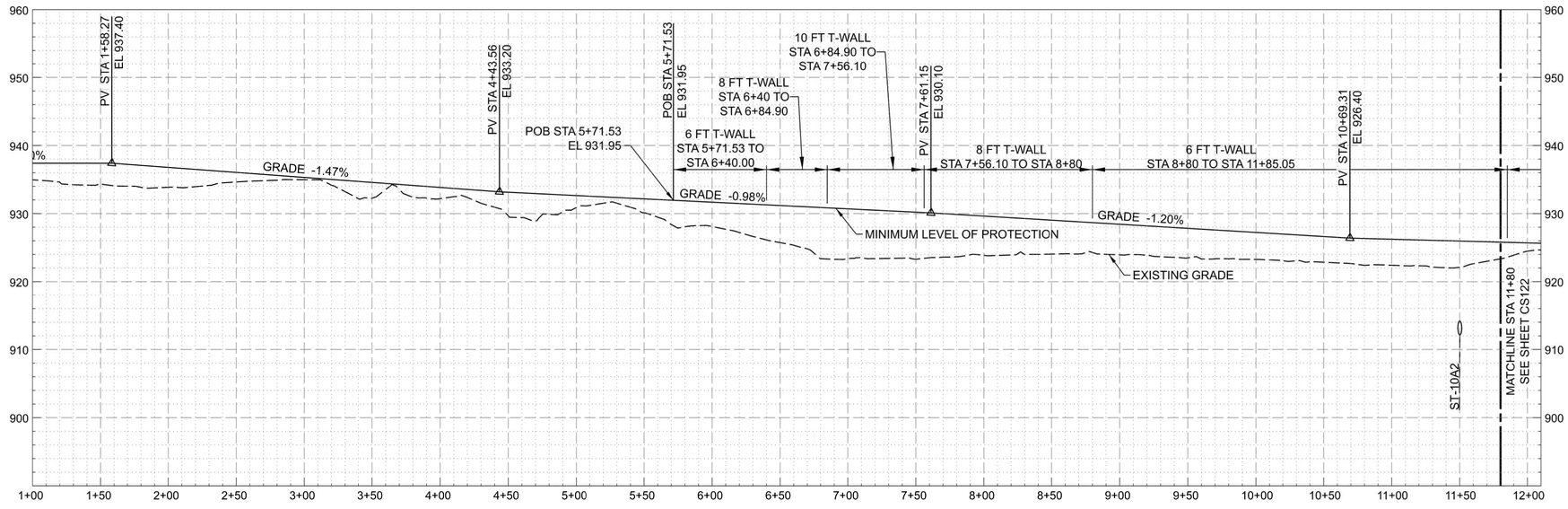
D1 RB PLAN - 0+00 TO 11+80
SCALE: 1"=50'



A1 RB PROFILE - 1+00 TO 11+80
SCALE: 1"=50'

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KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

RIGHT BANK PLAN AND PROFILE
STA 0+00 TO STA 11+80

SHEET ID
CS121

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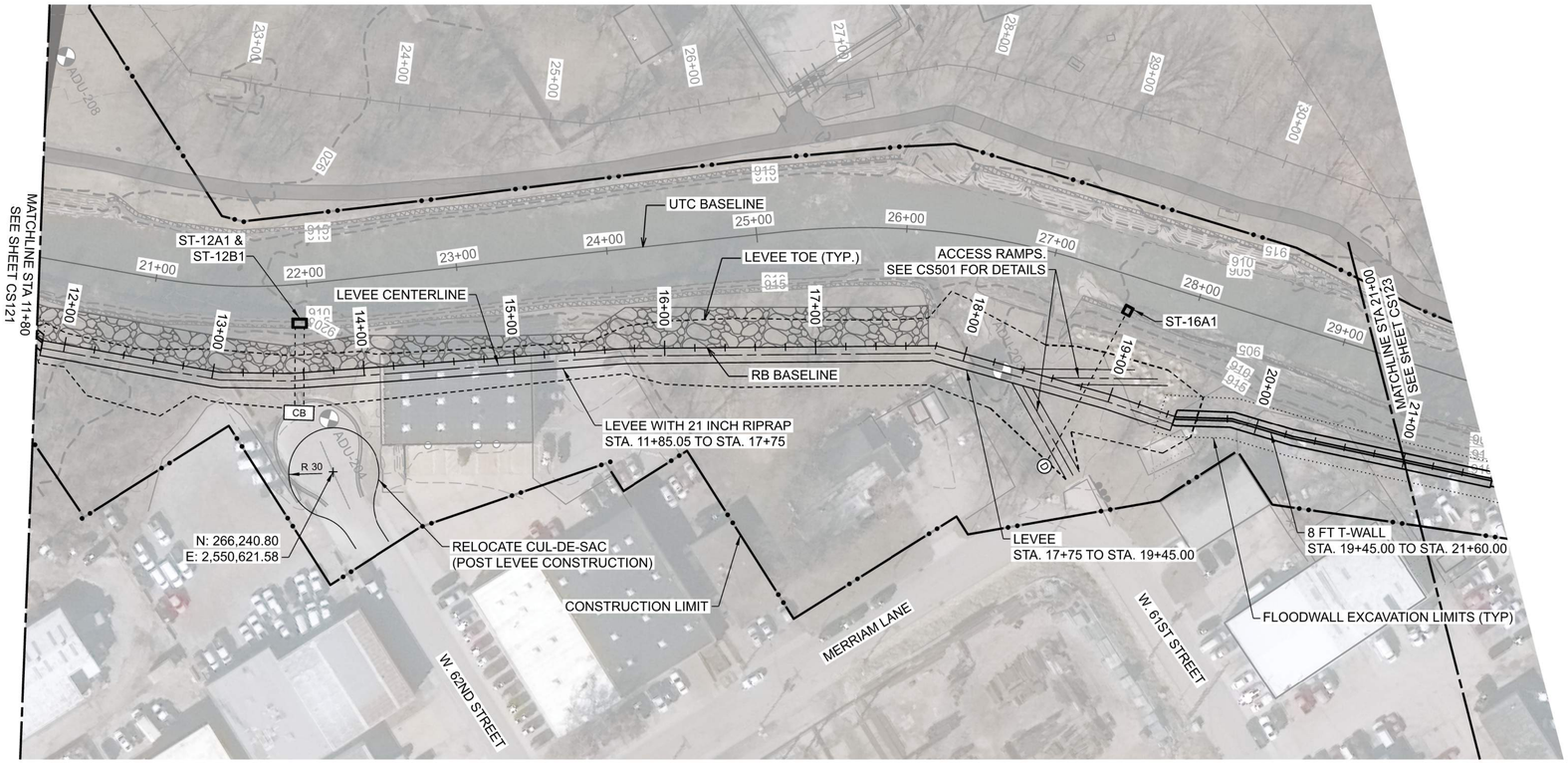
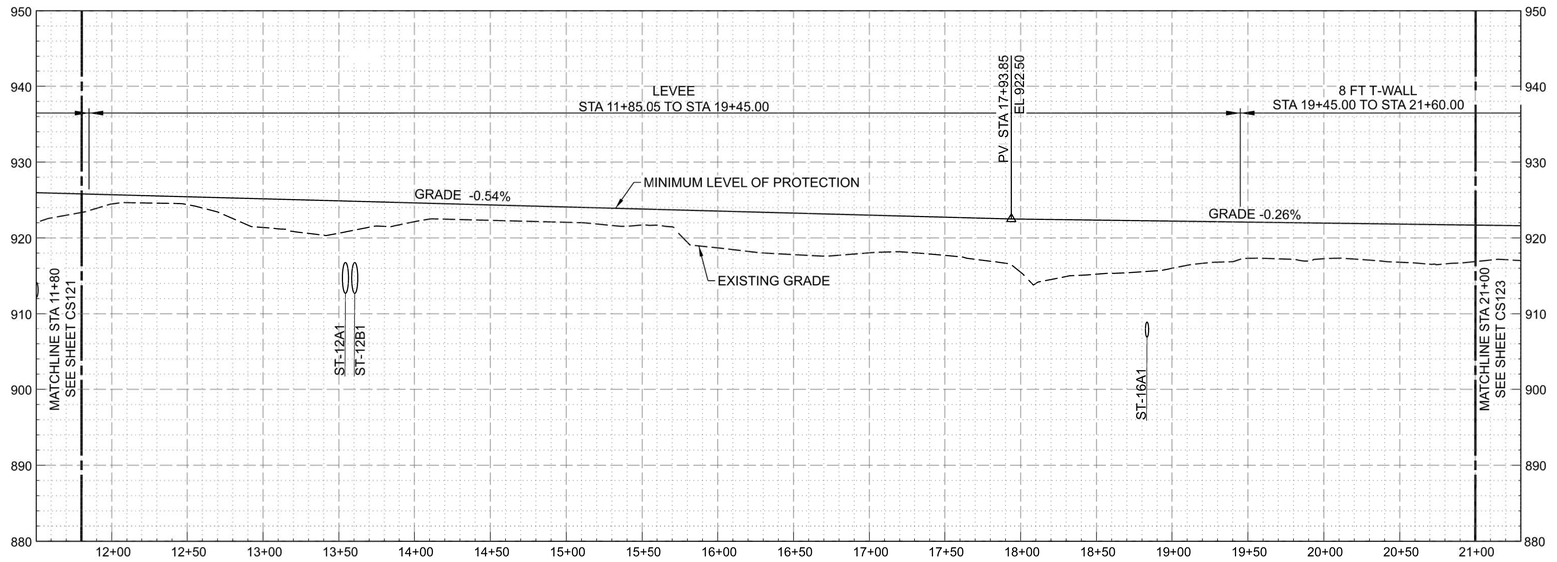


D1 RB PLAN - 11+80 TO 21+00

SCALE: 1"=50'

0 50' 100'



A1 RB PROFILE - 11+80 TO 21+00

SCALE: 1"=50'

0 50' 100'

0 10' 20'

GENERAL SHEET NOTES

1. SEE DEMOLITION SHEETS FOR DEMOLITION DETAILS.
2. SEE CS100 SERIES SHEETS FOR LEFT BANK FLOOD RISK MANAGEMENT FEATURES.
3. SEE CS301 FOR TYPICAL LEVEE SECTIONS.
4. SEE CG400 SERIES SHEETS FOR STORMWATER STRUCTURE DETAILS.
5. SEE CU SHEETS FOR UTILITY RELOCATIONS.
6. SEE STRUCTURAL SHEETS FOR FLOODWALL AND FLOODWALL TO LEVEE TRANSITION DETAILS.
7. DO NOT DISTURB EXISTING LIMESTONE BLOCK WALL UNLESS NECESSARY FOR CONSTRUCTION. SALVAGE ANY BLOCKS REMOVED DURING CONSTRUCTION AND PLACE IN STOCKPILE WITHIN STAGING AREA ALONG THE RIGHT BANK (LANDSIDE OF LEVEE/FLOODWALL) SOUTH OF W. 61ST STREET UNLESS OTHERWISE DIRECTED BY USACE. ANY SALVAGED BLOCKS ARE PROPERTY OF THE CITY OF MERRIAM/MERRIAM DRAINAGE DISTRICT.
8. BUILDINGS WITHIN 15 FEET OF EXCAVATION REQUIRE ADDITIONAL MONITORING. SEE EM 385-1-1 FOR DETAILS.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	ISSUE DATE:
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M. VANLANDINGHAM	SEE COVER SHEET
CHECKED BY:	CONTRACT NO.:
P. O'CONNELL	
SUBMITTED BY:	FILE NO.:
TBD	
SIZE	FILE NAME
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U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

RIGHT BANK PLAN AND PROFILE
STA 11+80 TO STA 21+00

SHEET ID

CS122

pw:\\PWINT-MPC.EIS.DS.USACE.ARMY.MIL:CENWK - Kansas City District\Documents\CW\TurkeyCr\505229_Upper_Turkey_Creek\6.0 Engineering-Design\6.1 Drawings\CAD_BIM\

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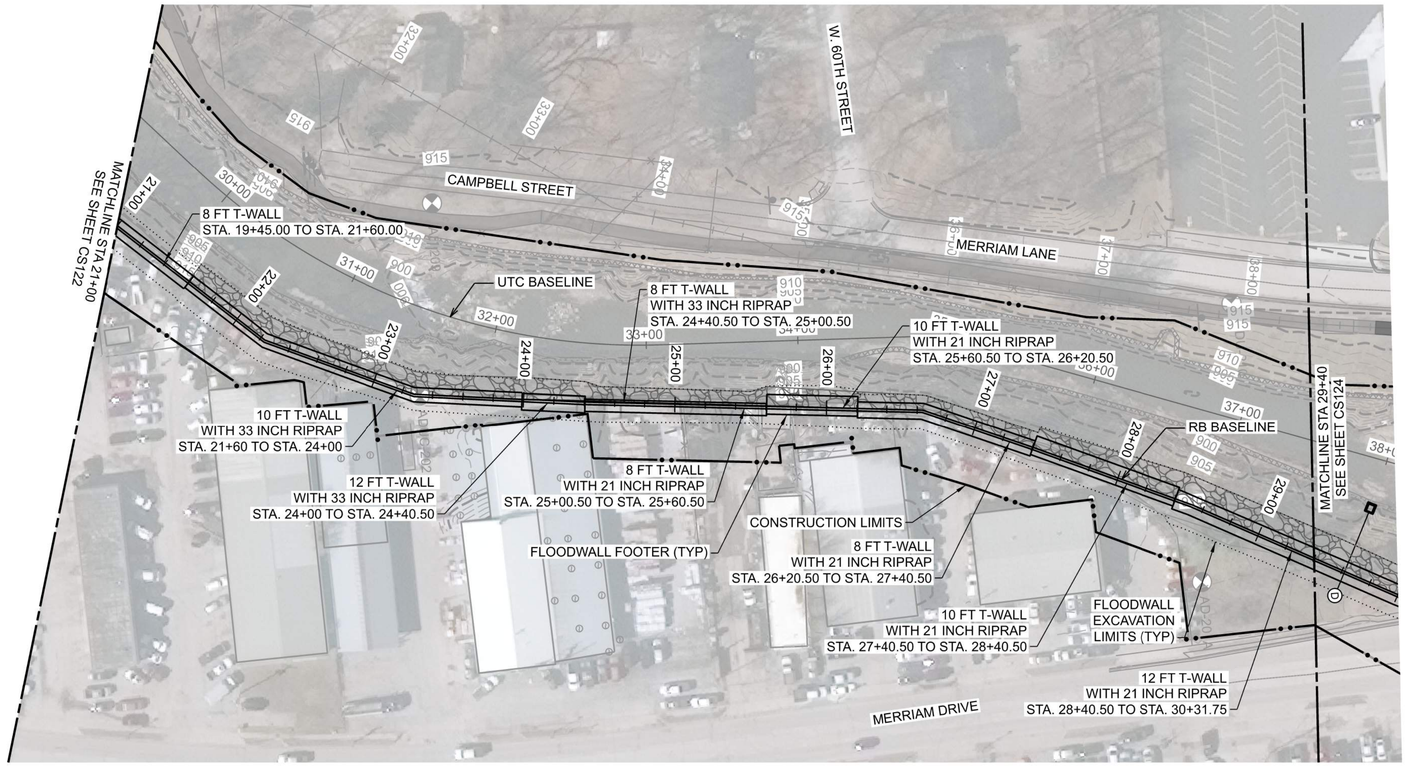
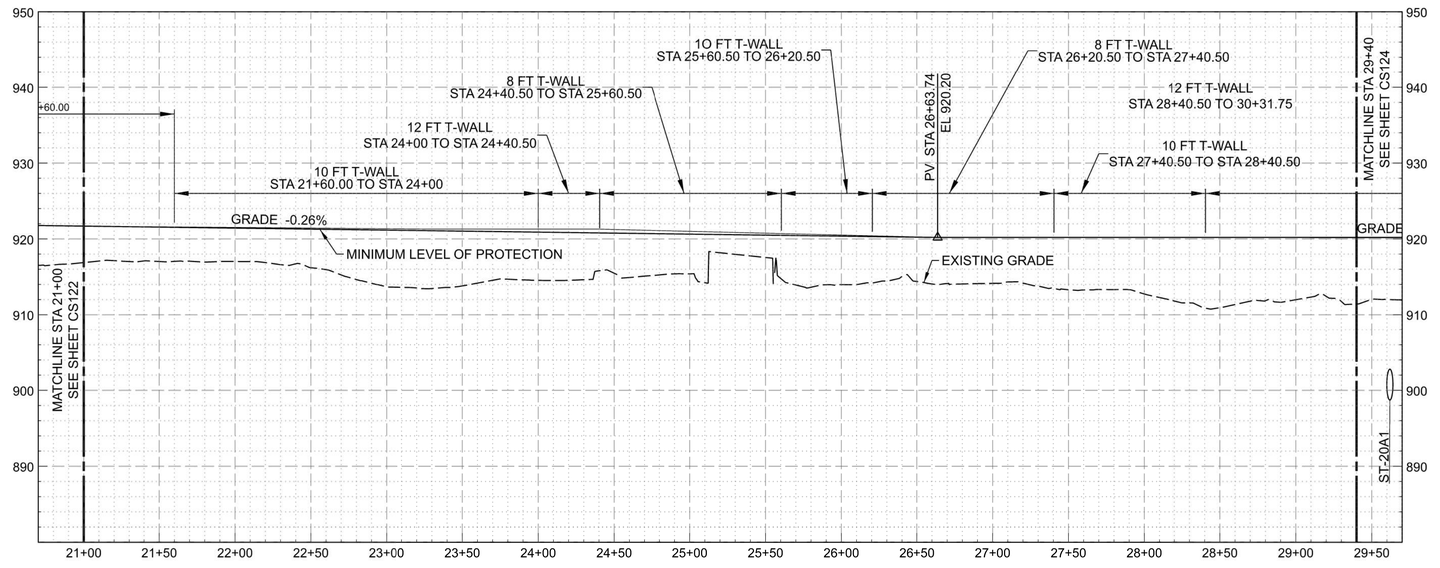


PLAN NORTH

0 50' 100'

D1 RB PLAN - 21+00 TO 29+40

SCALE: 1"=50'



A1 RB PROFILE - 21+00 TO 29+40

SCALE: 1"=50'

0 50' 100'

0 10' 20'

GENERAL SHEET NOTES

1. SEE DEMOLITION SHEETS FOR DEMOLITION DETAILS.
2. SEE CS100 SERIES SHEETS FOR LEFT BANK FLOOD RISK MANAGEMENT FEATURES.
3. SEE CS301 FOR TYPICAL LEVEE SECTIONS.
4. SEE CG400 SERIES SHEETS FOR STORMWATER STRUCTURE DETAILS.
5. SEE CU SHEETS FOR UTILITY RELOCATIONS.
6. SEE STRUCTURAL SHEETS FOR FLOODWALL AND FLOODWALL TO LEVEE TRANSITION DETAILS.
7. DO NOT DISTURB EXISTING LIMESTONE BLOCK WALL UNLESS NECESSARY FOR CONSTRUCTION. SALVAGE ANY BLOCKS REMOVED DURING CONSTRUCTION AND PLACE IN STOCKPILE WITHIN STAGING AREA ALONG THE RIGHT BANK (LANDSIDE OF LEVEE/FLOODWALL) SOUTH OF W. 61ST STREET UNLESS OTHERWISE DIRECTED BY USACE. ANY SALVAGED BLOCKS ARE PROPERTY OF THE CITY OF MERRIAM/MERRIAM DRAINAGE DISTRICT.
8. BUILDINGS WITHIN 15 FEET OF EXCAVATION REQUIRE ADDITIONAL MONITORING. SEE EM 385-1-1 FOR DETAILS.

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U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

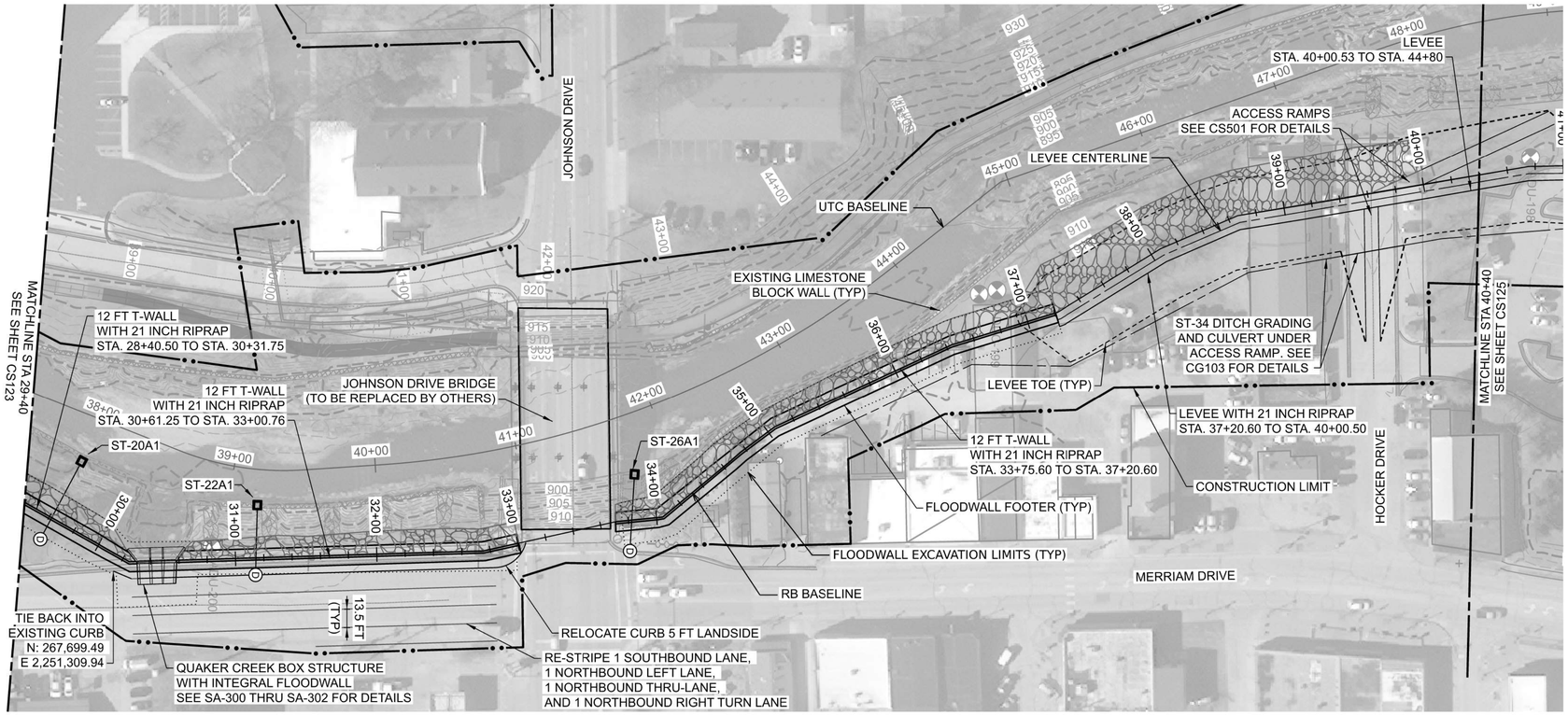
MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

RIGHT BANK PLAN AND PROFILE
STA 21+00 TO STA 29+40

SHEET ID

CS123

pw:\\PWINT-WPC.EIS.DS.USACE.ARMY.MIL:CENWK - Kansas City District\Documents\CW\TurkeyCr\505229 Upper_Turkey_Creek\6.0 Engineering-Design\6.1 Drawings\CAD_BIM\



PLAN NORTH

GENERAL SHEET NOTES

1. SEE DEMOLITION SHEETS FOR DEMOLITION DETAILS.
2. SEE CS100 SERIES SHEETS FOR LEFT BANK FLOOD RISK MANAGEMENT FEATURES.
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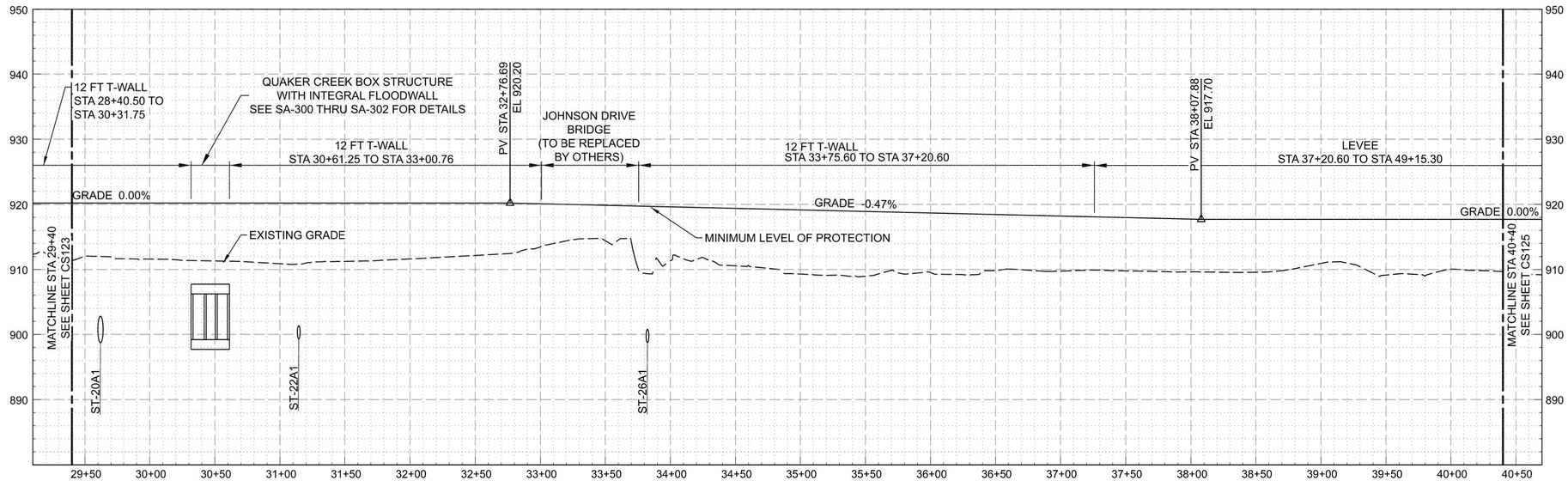
D1 RB PLAN - 29+40 TO 40+40
SCALE: 1"=50'

0 50' 100'



A1 RB PROFILE - 29+40 TO 40+40
SCALE: 1"=50'

0 50' 100'
0 10' 20'

DESIGNED BY:	ISSUE DATE:
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KANSAS CITY, MO 64106

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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

RIGHT BANK PLAN AND PROFILE
STA 29+40 TO STA 40+40

SHEET ID
CS124

MARK	DESCRIPTION	DATE

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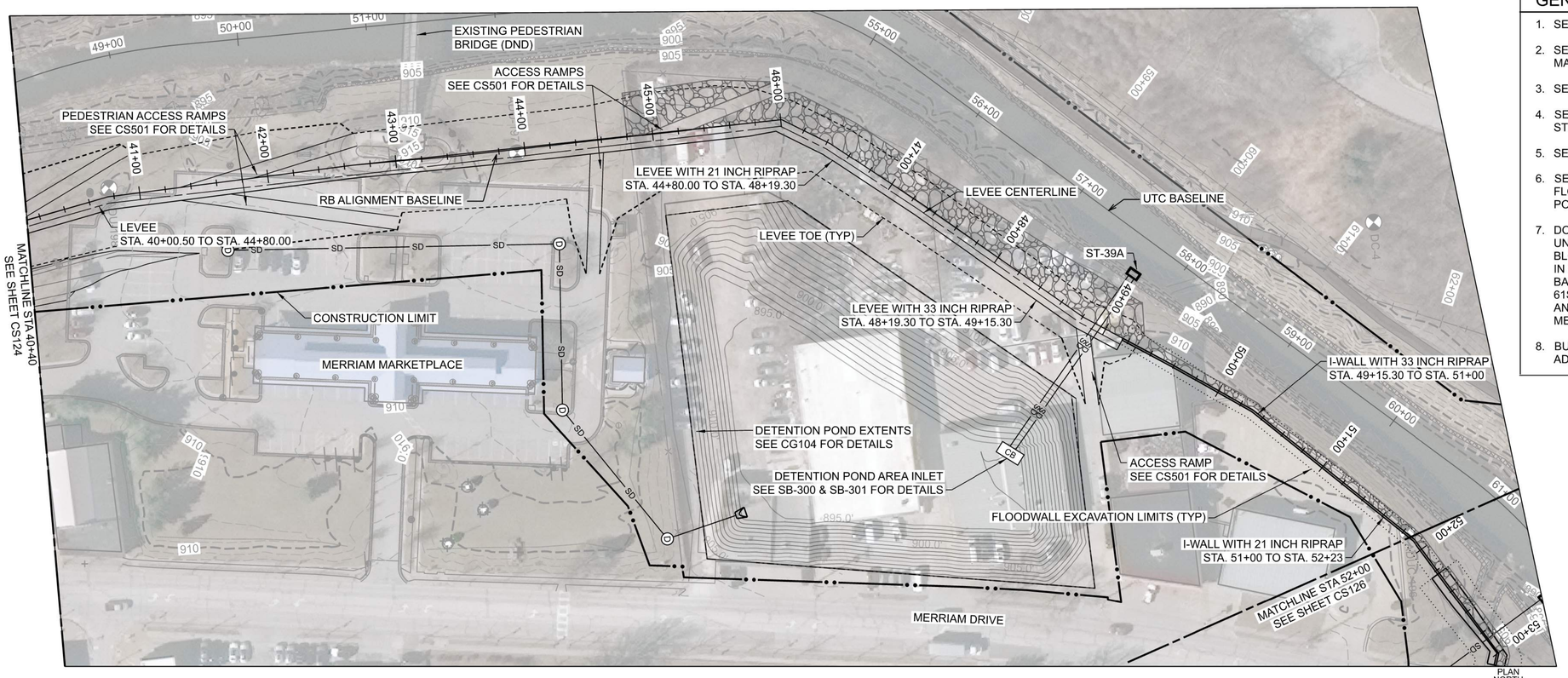
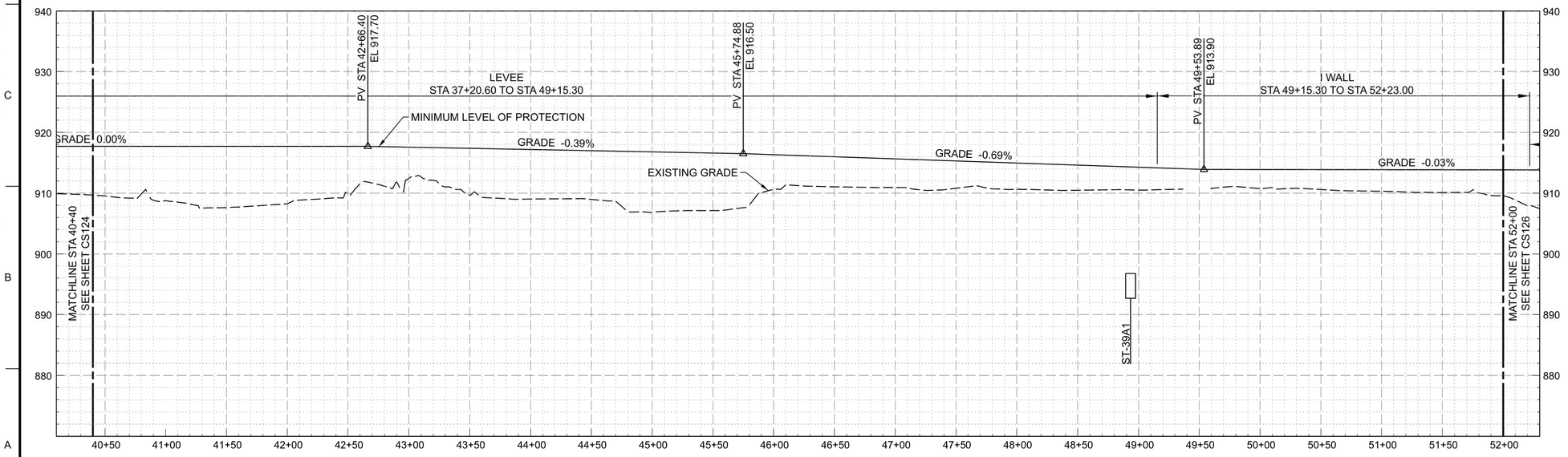


D1 RB PLAN - 40+40 TO 52+00

SCALE: 1"=50'



A1 RB PROFILE - 40+40 TO 52+00

SCALE: 1"=50'

GENERAL SHEET NOTES

1. SEE DEMOLITION SHEETS FOR DEMOLITION DETAILS.
2. SEE CS100 SERIES SHEETS FOR LEFT BANK FLOOD RISK MANAGEMENT FEATURES.
3. SEE CS301 FOR TYPICAL LEVEE SECTIONS.
4. SEE CG400 SERIES SHEETS FOR STORMWATER STRUCTURE DETAILS.
5. SEE CU SHEETS FOR UTILITY RELOCATIONS.
6. SEE STRUCTURAL SHEETS FOR FLOODWALL , FLOODWALL TO LEVEE TRANSITION, AND DETENTION POND INLET AND OUTFALL STRUCTURE DETAILS.
7. DO NOT DISTURB EXISTING LIMESTONE BLOCK WALL UNLESS NECESSARY FOR CONSTRUCTION. SALVAGE ANY BLOCKS REMOVED DURING CONSTRUCTION AND PLACE IN STOCKPILE WITHIN STAGING AREA ALONG THE RIGHT BANK (LANDSIDE OF LEVEE/FLOODWALL) SOUTH OF W. 61ST STREET UNLESS OTHERWISE DIRECTED BY USACE. ANY SALVAGED BLOCKS ARE PROPERTY OF THE CITY OF MERRIAM/MERRIAM DRAINAGE DISTRICT.
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US Army Corps of Engineers®

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KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

RIGHT BANK PLAN AND PROFILE
STA 40+40 TO STA 52+00

SHEET ID

CS125

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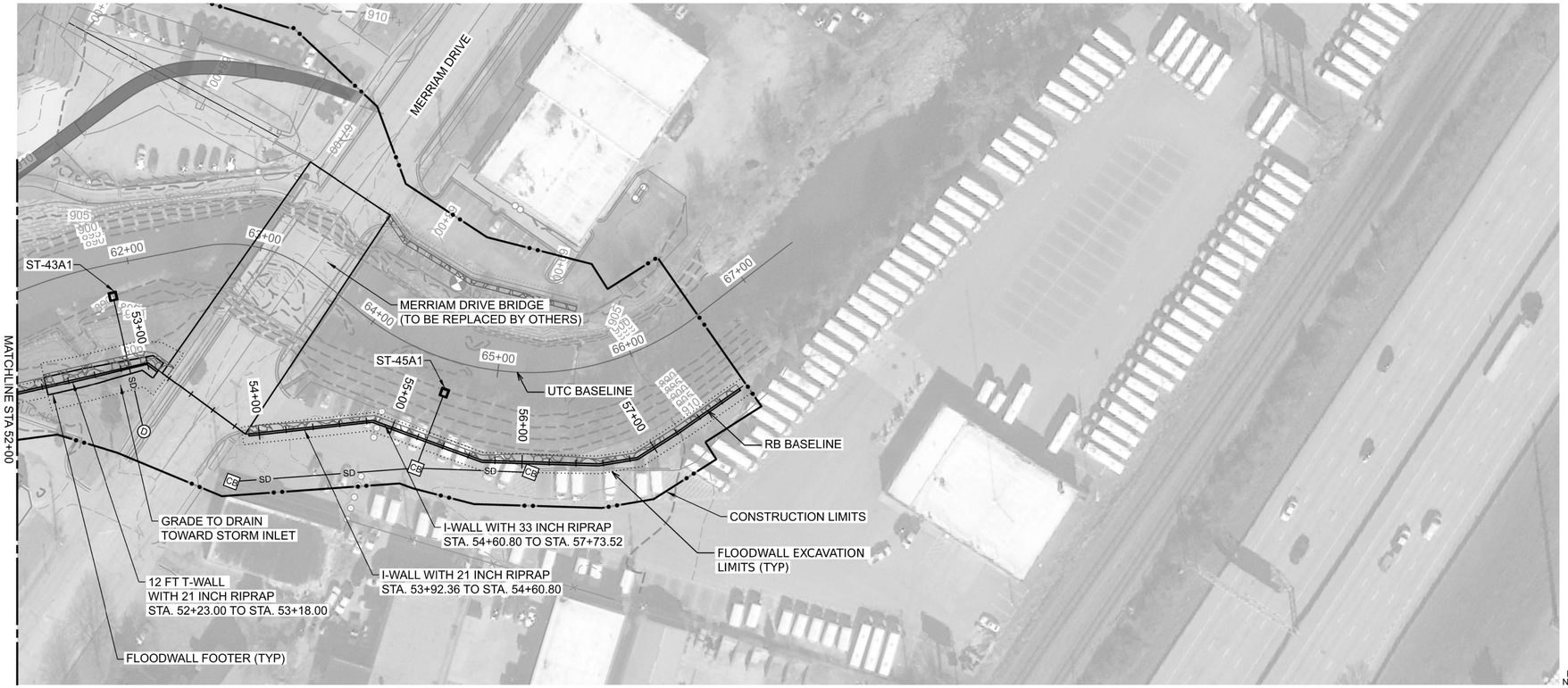

GENERAL SHEET NOTES

1. SEE DEMOLITION SHEETS FOR DEMOLITION DETAILS.
2. SEE CS100 SERIES SHEETS FOR LEFT BANK FLOOD RISK MANAGEMENT FEATURES.
3. SEE CS301 FOR TYPICAL LEVEE SECTIONS.
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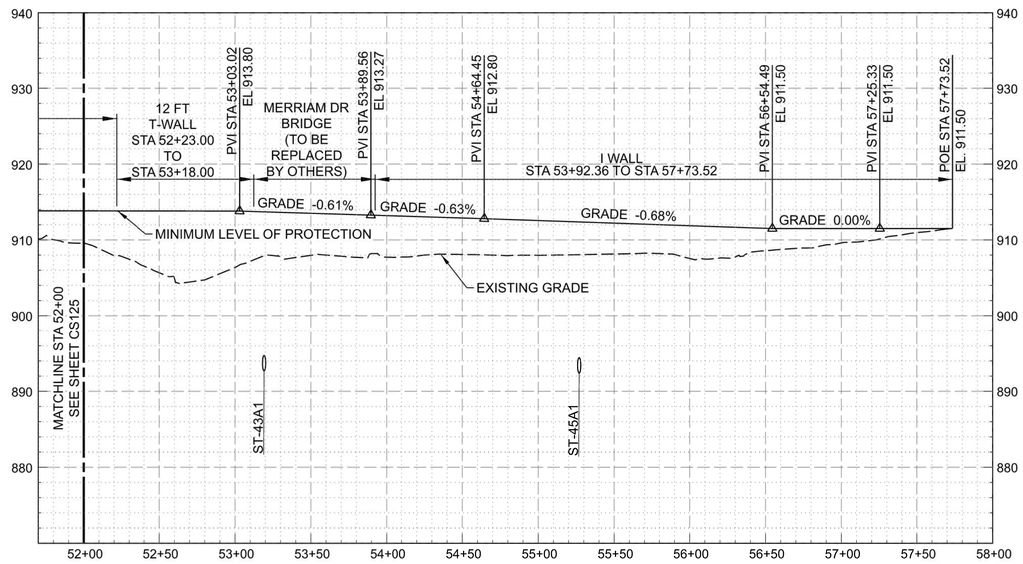
8. BUILDINGS WITHING 15 FEET OF EXCAVATION REQUIRE ADDITIONAL MONITORING. SEE EM 385-1-1 FOR DETAILS.

D1 RB PLAN - 52+00 TO 58+00
SCALE: 1"=50'

0 50' 100'



A1 RB PROFILE - 52+00 TO 58+00
SCALE: 1"=50'

0 50' 100'
0 10' 20'

DESIGNED BY:	ISSUE DATE:
PDT	MARCH 2026
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U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

RIGHT BANK PLAN AND PROFILE
STA 52+00 TO END

SHEET ID
CS126

MARK	DESCRIPTION	DATE

pw:\\PWINT-MPC.EIS.DS.USACE.ARMY.MIL:CENWK - Kansas City District\Documents\CW\TurkeyCr\505229_Upper_Turkey_Creek\6 Engineering-Design\6.1 Drawings\CAD_BIM\

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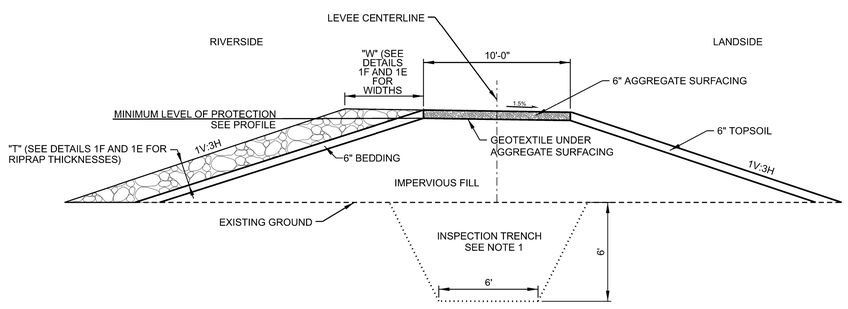
SCHEDULE OF LEFT BANK RIPRAP PLACEMENT				
LEFT BANK BASELINE REACH (STATION TO STATION)		D_{100}, (IN)	LAYER THICKNESS "T", (FT)	WIDTH "W" FOR PLACEMENT ON LEVEE (FT)
FROM	TO			
3+75.00	7+00.00	21	2.25	7.12
7+00.00	10+00.00	21	2.25	N/A
10+00.00	14+40.00	33	3.25	N/A
15+80.00	19+00.00	21	2.25	N/A
67+61.40	69+19.66	33	3.25	N/A

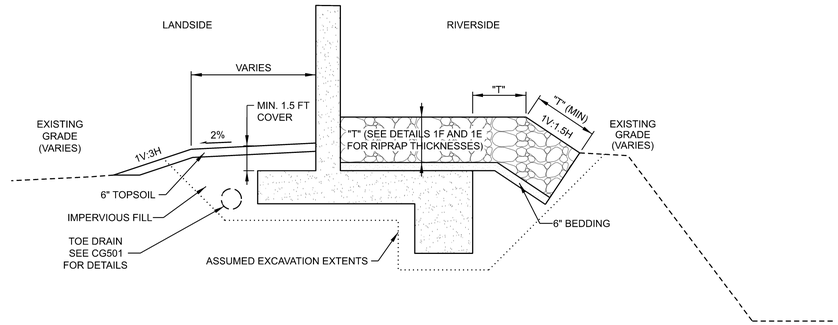
1F SCHEDULE OF LEFT BANK RIPRAP PLACEMENT
SCALE: NTS

SCHEDULE OF RIGHT BANK RIPRAP PLACEMENT				
RIGHT BANK BASELINE REACH (STATION TO STATION)		D_{100}, (IN)	LAYER THICKNESS "T", (FT)	BEDDING THICKNESS (FT)
FROM	TO			
6+84.90	11+85.00	21	2.25	N/A
11+85.00	17+75.00	21	2.25	7.12
21+60.00	25+00.50	33	3.25	N/A
33+75.60	37+20.60	21	2.25	N/A
37+20.60	40+00.50	21	2.25	7.12
44+80.00	48+19.30	21	2.25	7.12
48+19.30	51+00.00	33	3.25	N/A
51+00.00	53+18.00	21	2.25	N/A
53+92.36	64+60.80	21	2.25	N/A
54+60.80	57+73.52	33	3.25	N/A

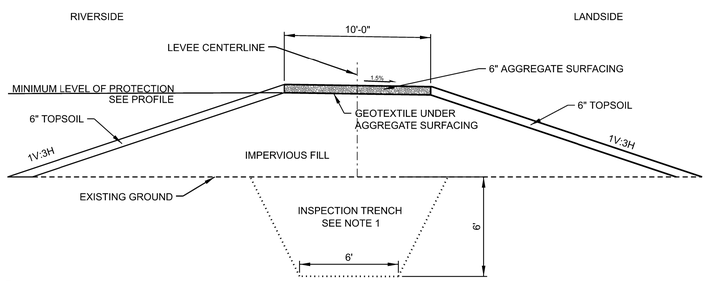
1E SCHEDULE OF RIGHT BANK RIPRAP PLACEMENT
SCALE: NTS



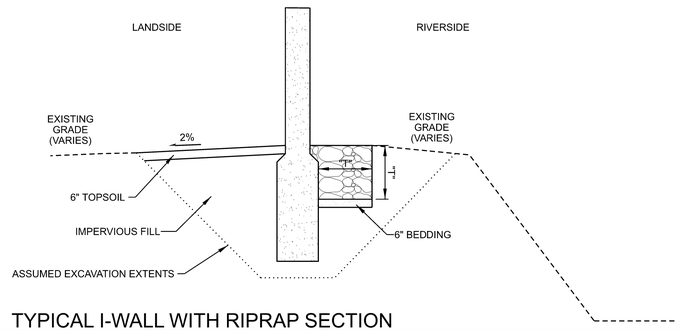
1C TYPICAL 10' LEVEE WITH RIPRAP SECTION
SCALE: NTS



6C TYPICAL T-WALL WITH RIPRAP SECTION
SCALE: NTS



1A TYPICAL 10' LEVEE SECTION
SCALE: NTS



6A TYPICAL I-WALL WITH RIPRAP SECTION
SCALE: NTS

GENERAL SHEET NOTES

1. IF LEVEE IS SHORTER THAN 6 FEET, THE DEPTH OF INSPECTION TRENCH CAN EQUAL THE HEIGHT OF THE LEVEE. IF LEVEE IS SHORTER THAN 3 FEET, USE A MINIMUM 3 FOOT DEPTH OF INSPECTION TRENCH.

US Army Corps of Engineers®

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CHECKED BY: P. O'CONNELL
SUBMITTED BY:
SIZE: ANSI D
FILE NAME: UTC_CS301.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

TYPICAL SECTIONS

SHEET ID
CS301

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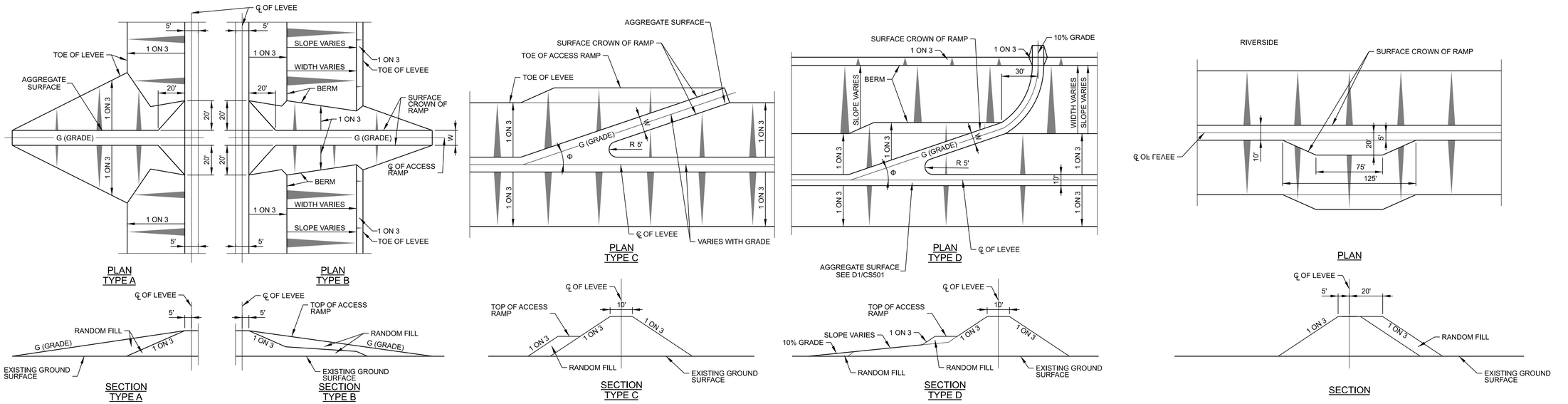
APPROX. UTC STATION	BANK	BANK STATION	LOCATION	TYPE	GRADE (FROM TOP OF LEVEE TO EXISTING GRADE)	WIDTH (FT)	ANGLE	REMARKS
14+00	RIGHT	5+53.33	LANDSIDE	C	4.22 FOR 47.33 FT, 0% FOR 5 FT, 5.75% FOR 29.75 FT	10	03°23'24.3"	PEDESTRIAN ACCESS TO EXISTING PEDESTRIAN BRIDGE UPSTREAM OF SHAWNEE MISSION PARKWAY. 10FT WIDE BY 6 INCH THICK ASPHALT PAVEMENT.
14+00	RIGHT	5+53.33	RIVERSIDE	C	8.33% FOR 30 FT, 0% FOR 5 FT, 8.33% FOR 19.35 FT	10	84°52'58.6"	
20+00	RIGHT	12+45.45	LANDSIDE	TURNAROUND	N/A	15	N/A	TURNAROUND AT SOUTH END OF LEVEE SOUTH OF W. 62ND STREET.
26+25	RIGHT	18+36.99	LANDSIDE	C	10%	10	44°28'02.6"	O&M ACCESS OFF W. 61ST STREET.
26+25	RIGHT	18+36.99	RIVERSIDE	C	10%	10	15°00'21"	
47+50	RIGHT	39+61.71	LANDSIDE	A	10%	10	98°57'49.6"	O&M ACCESS OFF HOCKER DRIVE.
47+50	RIGHT	39+61.71	RIVERSIDE	C	10%	10	15°00'54.2"	
49+50	RIGHT	41+31.61	LANDSIDE	C	7.64% FOR 32.74 FT, 0% FOR 5 FT, 7.64% FOR 32.74 FT, 0% FOR 5 FT, 7.64% FOR 32.74 FT, 0% FOR 5 FT, 7.64% FOR 37.33%	10	14°59'55.6"	PEDESTRIAN ACCESS TO EXISTING PEDESTRIAN BRIDGE ADJACENT TO MERRIAM MARKETPLACE.
49+50	RIGHT	41+31.61	RIVERSIDE	C	4.80% FOR 52.08 FT, 0% FOR 5 FT, 4.86% FOR 55.62 FT	10	12°06'03.7"	
52+75	RIGHT	44+92.5	LANDSIDE	A	10%	10	45°00'00"	O&M ACCESS NEAR MERRIAM MARKETPLACE.
52+75	RIGHT	44+92.5	RIVERSIDE	C	10%	10	15°40'02.9"	
57+50	RIGHT	48+82.83	LANDSIDE	C	8.33% FOR 30 FT, 0% FOR 5 FT, 8.33% FOR 20.82 FT	10	48°00'36.2"	O&M ACCESS FROM LEVEE TO DETENTION BASIN.
63+00	LEFT	65+60.79	LANDSIDE	C		10	30°00'00"	PEDESTRIAN ACCESS FROM TRAIL TO MERRIAM DR. NORTH OF BRIDGE.
63+00	LEFT	65+60.79	RIVERSIDE	A	8.33% FOR 30 FT, 0% FOR 5 FT, 8.33% FOR 32.09 FT	10	116°25'12.5"	

D2 SCHEDULE OF ACCESS RAMPS

SCALE: NTS



A1 ACCESS RAMP DETAILS

SCALE: NTS

A8 TYPICAL TURNOUT DETAILS

SCALE: NTS

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DESIGNED BY: F. PRITT	ISSUE DATE: MARCH 2026
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U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
PZ - 505229, FY2023

SITE DETAILS

SHEET ID

CS501

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GENERAL NOTES

1. SEE G-005 FOR TRIBUTARY F ALIGNMENT DATA.
2. SEE TRIBUTARY ELEVATION TABLE BELOW FOR BOTTOM OF CHANNEL ELEVATIONS. MAINTAIN POSITIVE DRAINAGE.

TRIBUTARY ELEVATION SCHEDULE		
STA (FT)	BOT OF CHANNEL ELEV. (FT)	NOTES:
0+42.62	923.390	START OF CHANNEL REGRADE
0+85.23	923.186	POINT OF CURVATURE
1+00	923.115	
1+70.40	922.776	POINT OF TANGENCY
2+00	922.634	
3+00	922.152	
4+00	921.671	
5+00	921.189	
6+00	920.708	
7+00	920.227	
7+31.69	920.074	POINT OF CURVATURE
8+00	919.745	
8+40	919.553	END OF CHANNEL REGRADE

3. DO NOT DISTURB EXISTING LIMESTONE BLOCK WALL UNLESS NECESSARY FOR CONSTRUCTION. SALVAGE ANY BLOCKS REMOVED DURING CONSTRUCTION AND PLACE IN STOCKPILE WITHIN STAGING AREA ALONG THE RIGHT BANK (LANDSIDE OF LEVEE/FLOODWALL) SOUTH OF W. 61ST STREET UNLESS OTHERWISE DIRECTED BY USACE. ANY SALVAGED BLOCKS ARE PROPERTY OF THE CITY OF MERRIAM/MERRIAM DRAINAGE DISTRICT.

W. 62ND TERR.
MASTIN ST.
SLOPE: 1.00%
SLOPE: 0.50%
SLOPE TIEOUTS @ 1V:3H
START OF ST-01 DITCH MATCH INVERT ELEVATION
SLOPE BOTTOM @ 1.00%
PT STA 1+70.40
PC STA 0+42.62
3H:1V TO EXIST GRADE
PC STA 7+31.69
PT STA 9+35.53
POE STA 9+54.78 N 265,493.94 E 2,249,673.42
N 265,469.87 E 2,249,554.44 PI STA 8+33.82 R 1,290.62' D 4°26'21.85" Δ 9°2'57.62" L 203.84' T 102.13' E 4.03'
UTC BASELINE
POB STA 0+00.00 N 265,354.66 E 2,248,750.19
TRIBUTARY F REALIGNMENT BASELINE SEE NOTES 1 & 2
POINT OF CONVERGENCE WITH UPPER TURKEY CREEK ALIGNMENT
EXISTING LIMESTONE BLOCK WALL (TYP)
TIE INTO WINGWALL
N 265,440.37 E 2,248,847.32 PI STA 1+29.54 R 125.00' D 45°50'11.84" Δ 39°2'14.53" L 85.17' T 44.31' E 7.62'
1V:3H TO EXIST GRADE
GRADING LIMITS
FRONTAGE RD.
SHAWNEE MISSION PKWY.

PLAN NORTH

0 40' 80'

A1 TRIBUTARY REALIGNMENT GRADING PLAN
SCALE: 1" = 40'

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SUBMITTED BY:
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FILE NAME: UTC_CG101.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
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KANSAS CITY, MO 64106

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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

TRIBUTARY REALIGNMENT GRADING PLAN

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A1 ST-09A SOD V-DITCH GRADING PLAN

SCALE: 1" = 40'

GENERAL NOTES

1. SOD V-DITCH MUST BE CONSTRUCTED WITH UNIFORM SLOPE FROM BEGINNING TO END.
2. SOD V-DITCH MUST DAYLIGHT TO DRAIN INTO AREA INLET #09-1 WITH DETAILS SHOWN ON SHEET CG404.
3. SOD V-DITCH MUST BE CONSTRUCTED WITH 1V:3H SIDE SLOPES TO EXISTING GROUND.
4. SOD V-DITCH MUST BE GRASS BOTTOMED.
5. SEE SHEET CG502 FOR TYPICAL SECTION.

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P2 - 505229, FY2023

ST-09 SOD V-DITCH GRADING PLAN

SHEET ID

CG102

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A1 ST-34A CONCRETE V-DITCH GRADING PLAN

SCALE: 1" = 40'

GENERAL NOTES

1. CONCRETE V-DITCH MUST BE CONSTRUCTED WITH UNIFORM SLOPE FROM BEGINNING TO END.
2. CONCRETE V-DITCH MUST DAYLIGHT TO DRAIN INTO CURB INLET #34-1 W/TH DETAILS SHOWN ON SHEET CG413.
3. CONCRETE V-DITCH MUST BE CONSTRUCTED WITH 1V:3H SIDE SLOPES ON THE WEST TIE-OUT AND 1V:10H SIDE SLOPES ON THE EAST TIE-OUT TO EXISTING GROUND.
4. SEE SHEET CG502 FOR TYPICAL SECTION.

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ST-34 CONCRETE V-DITCH
GRADING PLAN

SHEET ID

CG103

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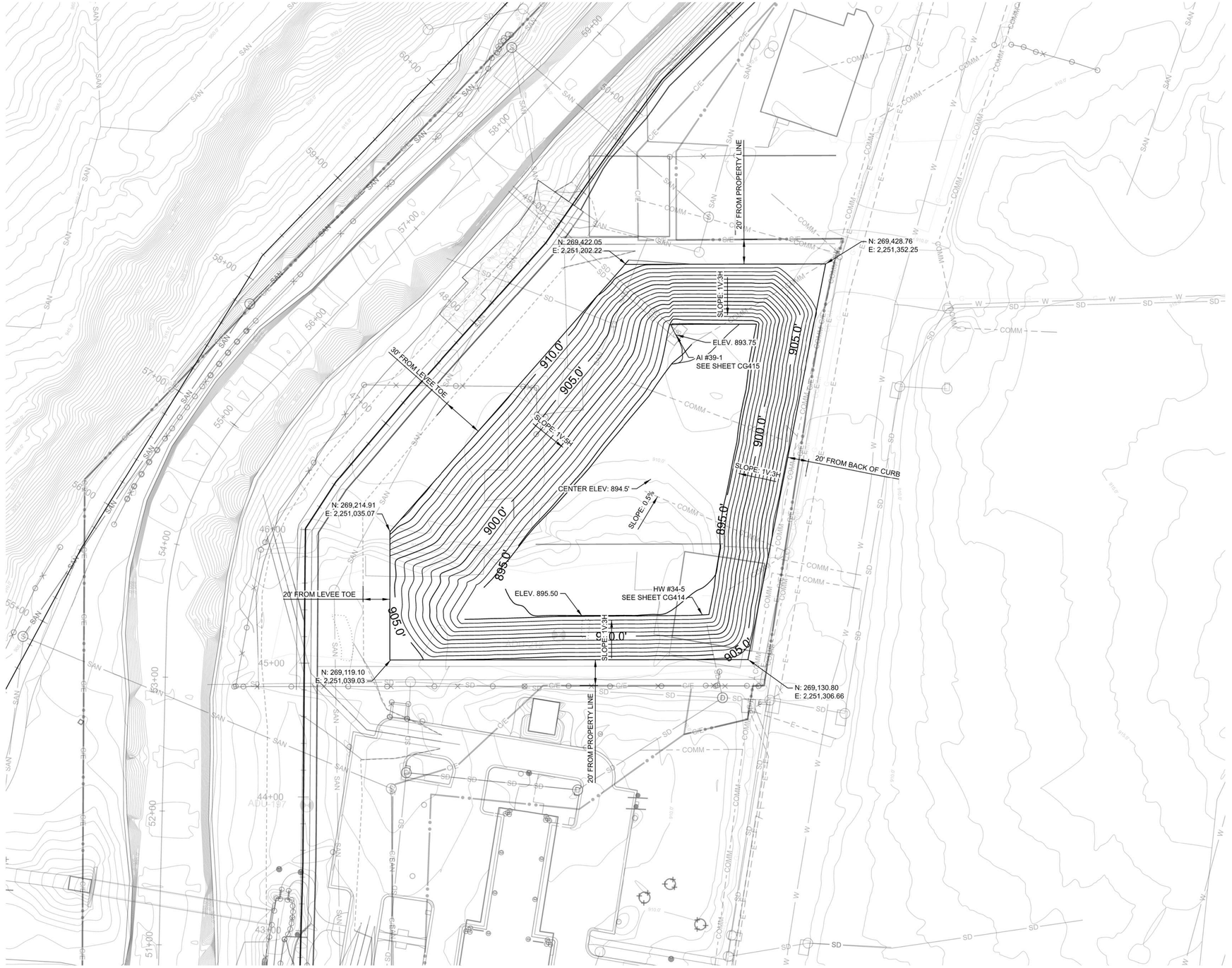

A1 DETENTION POND GRADING PLAN

SCALE: 1" = 40'

GENERAL NOTES

1. DETENTION POND MUST HAVE UNIFORM BOTTOM WITH POSITIVE DRAINAGE FROM HW #34-5 IN SOUTHEAST CORNER TO AI #39-1 IN NORTHWEST CORNER.
2. MATERIAL REMOVED FROM DETENTION POND TO BE USED FOR BORROW MATERIAL MUST BE SCREENED & TESTED TO MEET SATISFACTORY BORROW MATERIAL SPECIFICATIONS.
3. MATERIAL REMOVED FROM BORROW AREA NOT USED FOR BORROW MUST BE DISPOSED OF BY THE CONTRACTOR PER SPECIFICATIONS AT NO ADDITIONAL EXPENSE TO THE GOVERNMENT.
4. ESTIMATED AVAILABLE SATISFACTORY BORROW MATERIAL IS APPROXIMATELY 13,000 CY.

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DETENTION BASIN
GRADING PLAN

SHEET ID

CG104

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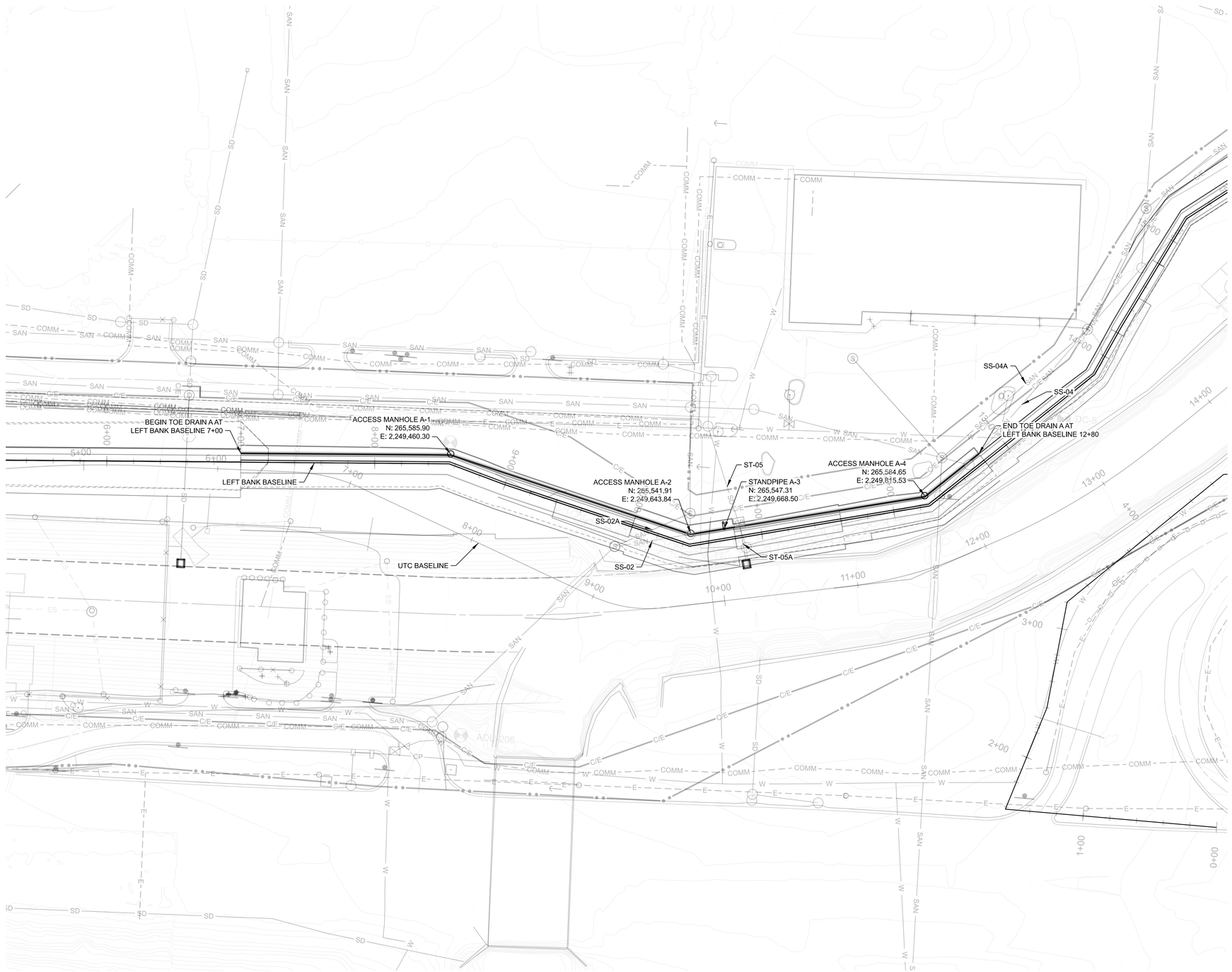

A1 SITE PLAN TOE DRAIN A LEFT BANK STA 7+00 TO 12+80

SCALE: 1" = 40'

GENERAL NOTES

1. TOE DRAIN MUST BE PLACED ADJACENT TO LANDSIDE TOE OF TWALL BASE.
2. TOE DRAIN FEATURES MUST NOT BE PLACED UNDER ANY SECTION OF TWALL.
3. TOE DRAINS MUST SLOPE TO NEAREST STORM LINE CROSSING OR STANDPIPE LOCATION.
4. SEE SHEET CG501 FOR TYPICAL DETAILS.

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SITE PLAN
TOE DRAIN A
LEFT BANK STA 7+00 TO 12+80

SHEET ID

CG201

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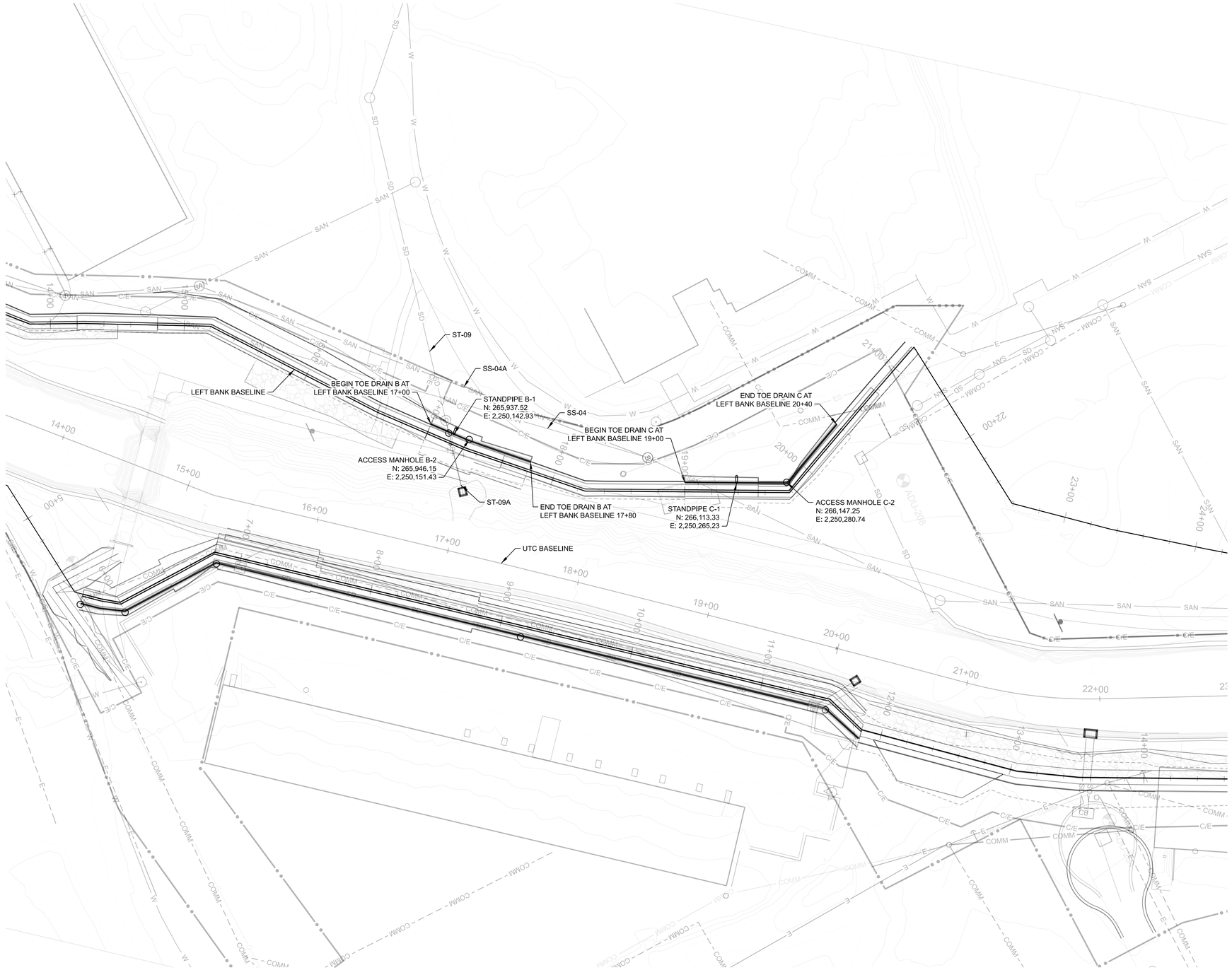

A1 SITE PLAN TOE DRAIN B & C LEFT BANK STA 17+00 TO 17+80 & 19+00 TO 20+40

SCALE: 1" = 40'

GENERAL NOTES

1. TOE DRAIN MUST BE PLACED ADJACENT TO LANDSIDE TOE OF TWALL BASE.
2. TOE DRAIN FEATURES MUST NOT BE PLACED UNDER ANY SECTION OF TWALL.
3. TOE DRAINS MUST SLOPE TO NEAREST STORM LINE CROSSING OR STANDPIPE LOCATION.
4. SEE SHEET CG501 FOR TYPICAL DETAILS.

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P2 - 505229, FY2023

SITE PLAN
TOE DRAIN B & C
LEFT BANK STA 17+00 TO 17+80 & 19+00 TO 20+40

SHEET ID
CG202

A1 SITE PLAN TOE DRAIN D LEFT BANK STA 40+30 TO 41+40

SCALE: 1" = 20'

GENERAL NOTES

1. TOE DRAIN MUST BE PLACED ADJACENT TO LANDSIDE TOE OF TWALL BASE.
2. TOE DRAIN FEATURES MUST NOT BE PLACED UNDER ANY SECTION OF TWALL.
3. TOE DRAINS MUST SLOPE TO NEAREST STORM LINE CROSSING OR STANDPIPE LOCATION.
4. SEE SHEET CG501 FOR TYPICAL DETAILS.

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SITE PLAN
TOE DRAIN D
LEFT BANK STA 40+30 TO 41+40

SHEET ID

CG203

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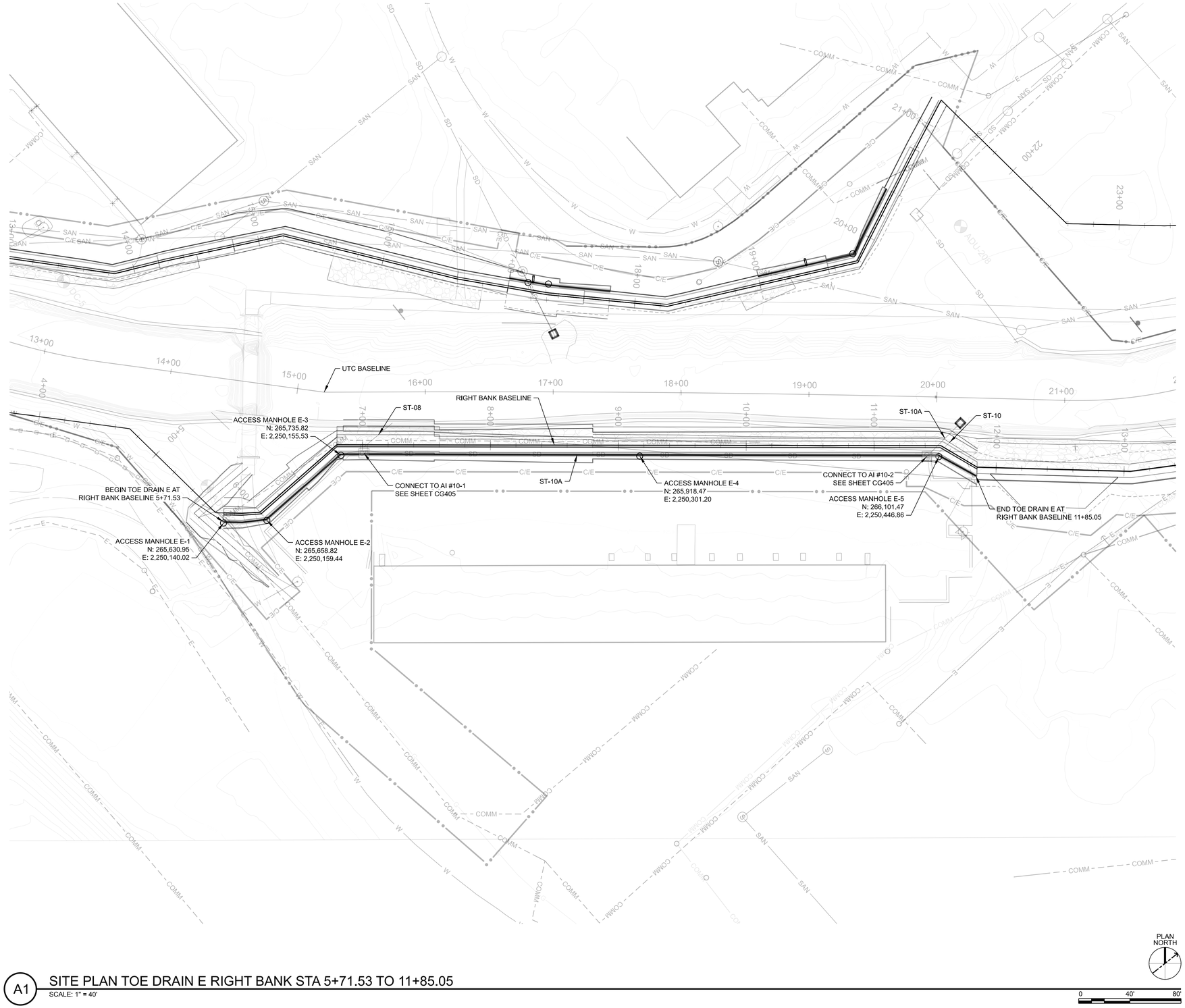

A1 SITE PLAN TOE DRAIN E RIGHT BANK STA 5+71.53 TO 11+85.05
SCALE: 1" = 40'

GENERAL NOTES

1. TOE DRAIN MUST BE PLACED ADJACENT TO LANDSIDE TOE OF TWALL BASE.
2. TOE DRAIN FEATURES MUST NOT BE PLACED UNDER ANY SECTION OF TWALL.
3. TOE DRAINS MUST SLOPE TO NEAREST STORM LINE CROSSING OR STANDPIPE LOCATION.
4. SEE SHEET CG501 FOR TYPICAL DETAILS.

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SITE PLAN
TOE DRAIN E
RIGHT BANK STA 5+71.53 TO 11+85.05

SHEET ID
CG204

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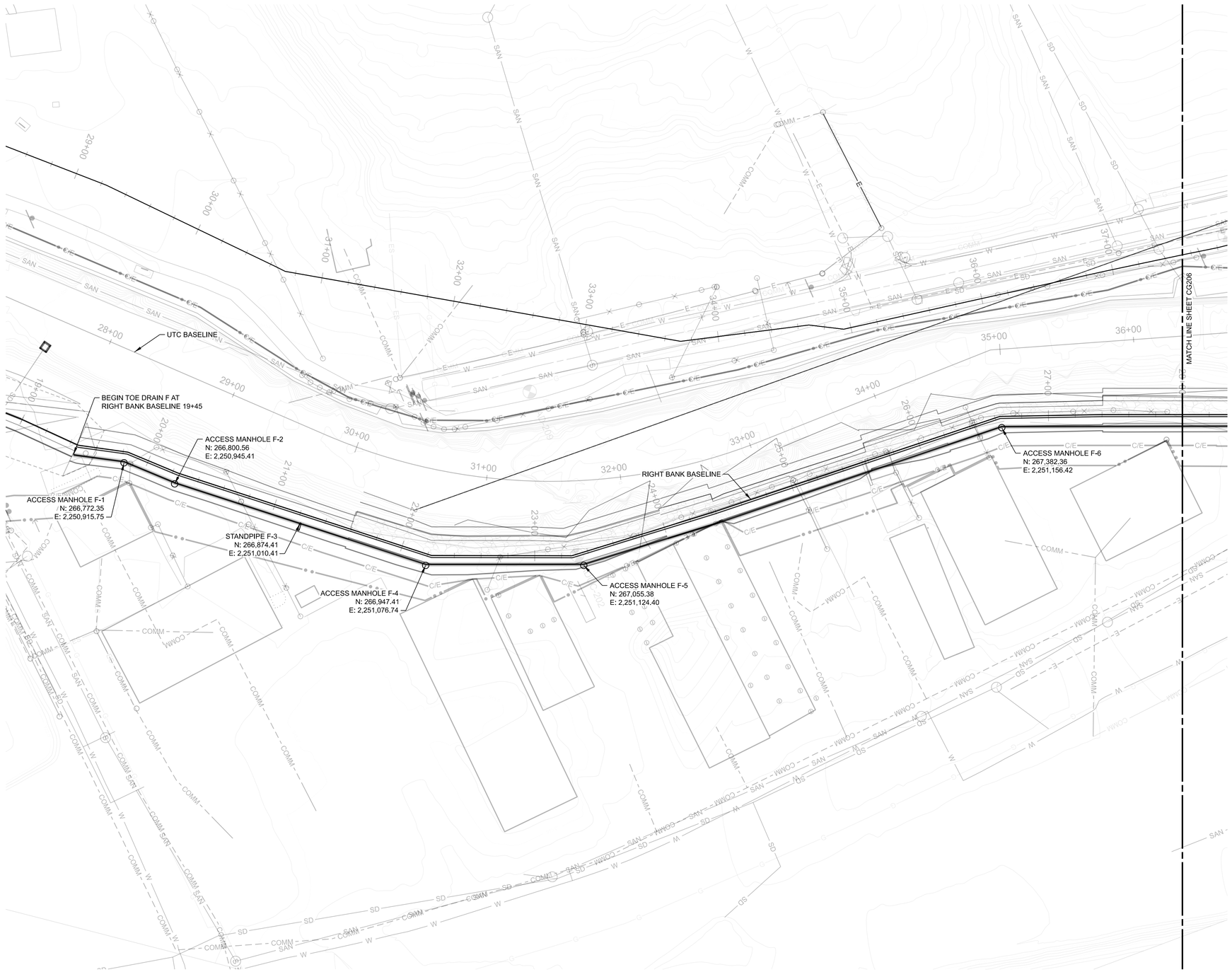

A1 SITE PLAN TOE DRAIN F RIGHT BANK STA 19+45 TO 28+00
SCALE: 1" = 40'

GENERAL NOTES

1. TOE DRAIN MUST BE PLACED ADJACENT TO LANDSIDE TOE OF TWALL BASE.
2. TOE DRAIN FEATURES MUST NOT BE PLACED UNDER ANY SECTION OF TWALL.
3. TOE DRAINS MUST SLOPE TO NEAREST STORM LINE CROSSING OR STANDPIPE LOCATION.
4. SEE SHEET CG501 FOR TYPICAL DETAILS.

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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

SITE PLAN
TOE DRAIN F
RIGHT BANK STA 19+45 TO 28+00

SHEET ID
CG205

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GENERAL NOTES

1. TOE DRAIN MUST BE PLACED ADJACENT TO LANDSIDE TOE OF TWALL BASE.
2. TOE DRAIN FEATURES MUST NOT BE PLACED UNDER ANY SECTION OF TWALL.
3. TOE DRAINS MUST SLOPE TO NEAREST STORM LINE CROSSING OR STANDPIPE LOCATION.
4. SEE SHEET CG501 FOR TYPICAL DETAILS.

A1 SITE PLAN TOE DRAIN F RIGHT BANK STA 28+00 TO 33+00.76
SCALE: 1" = 40'

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SITE PLAN
TOE DRAIN F
RIGHT BANK STA 28+00 TO 33+00.76

SHEET ID
CG206

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A1 SITE PLAN TOE DRAIN G RIGHT BANK STA 33+75.60 TO 37+20.60

SCALE: 1" = 40'

GENERAL NOTES

1. TOE DRAIN MUST BE PLACED ADJACENT TO LANDSIDE TOE OF TWALL BASE.
2. TOE DRAIN FEATURES MUST NOT BE PLACED UNDER ANY SECTION OF TWALL.
3. TOE DRAINS MUST SLOPE TO NEAREST STORM LINE CROSSING OR STANDPIPE LOCATION.
4. SEE SHEET CG501 FOR TYPICAL DETAILS.

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SITE PLAN
TOE DRAIN G
RIGHT BANK STA 33+75.60 TO 37+20.60

SHEET ID

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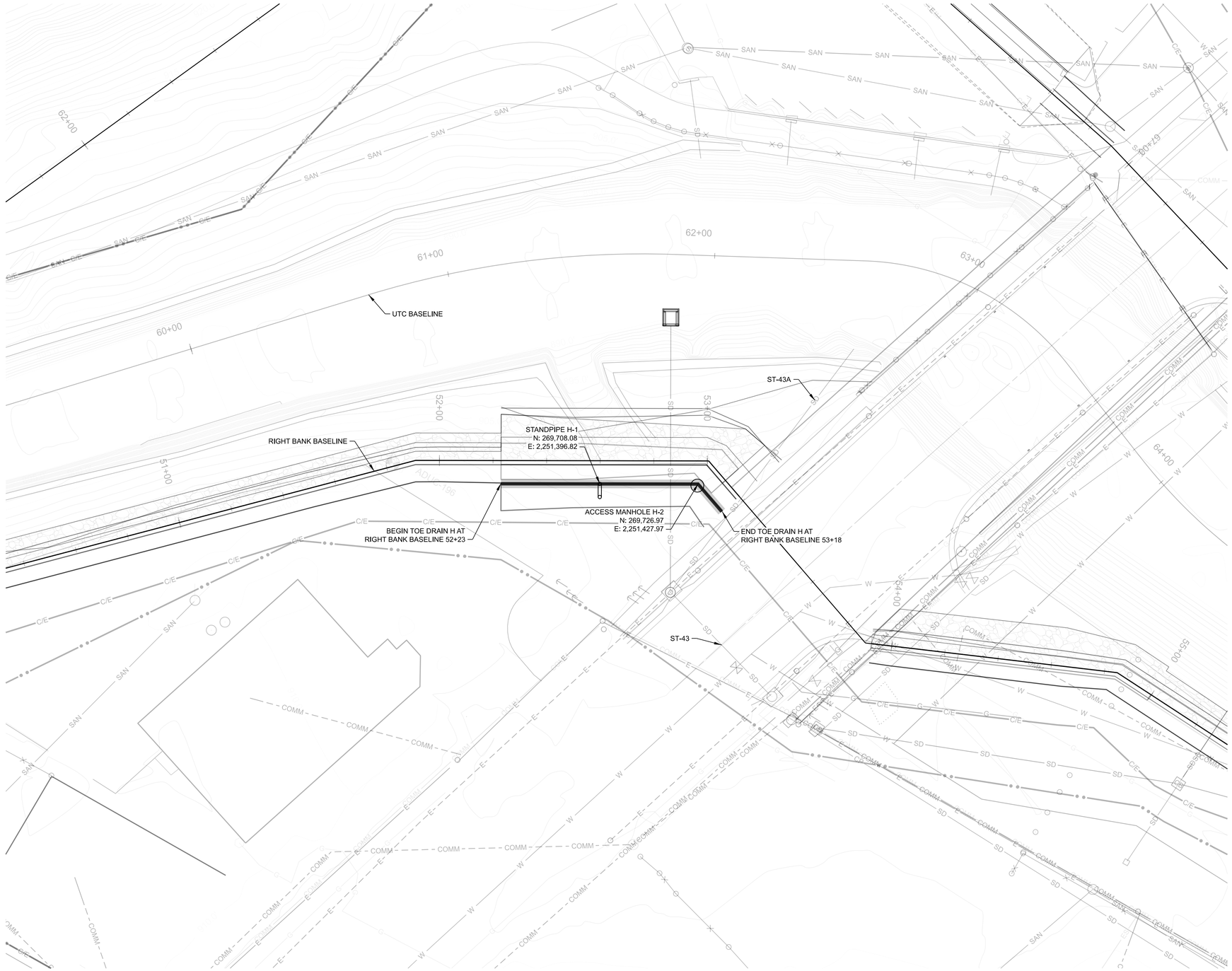

A1 SITE PLAN TOE DRAIN H RIGHT BANK STA 52+23 TO 53+18

SCALE: 1" = 20'

GENERAL NOTES

1. TOE DRAIN MUST BE PLACED ADJACENT TO LANDSIDE TOE OF TWALL BASE.
2. TOE DRAIN FEATURES MUST NOT BE PLACED UNDER ANY SECTION OF TWALL.
3. TOE DRAINS MUST SLOPE TO NEAREST STORM LINE CROSSING OR STANDPIPE LOCATION.
4. SEE SHEET CG501 FOR TYPICAL DETAILS.

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SITE PLAN
TOE DRAIN H
RIGHT BANK STA 52+23 TO 53+18

SHEET ID

CG208

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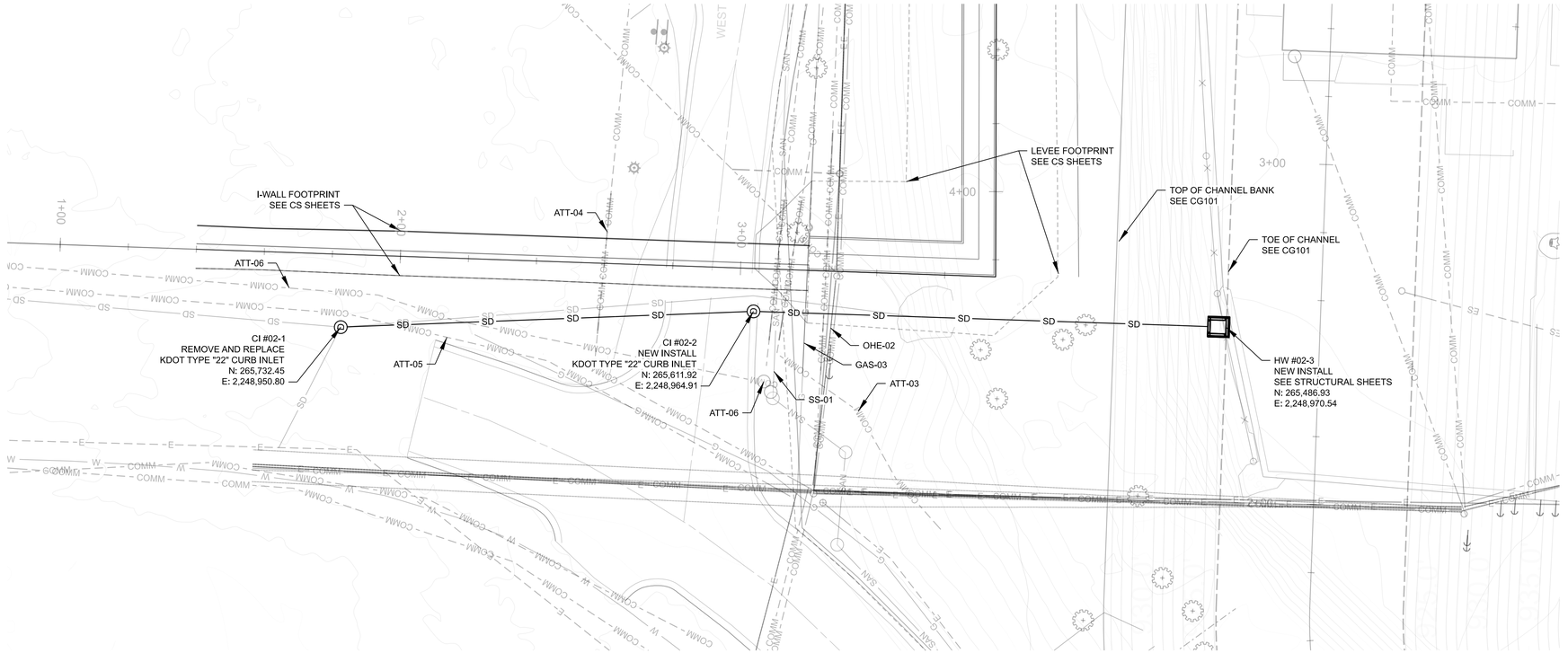
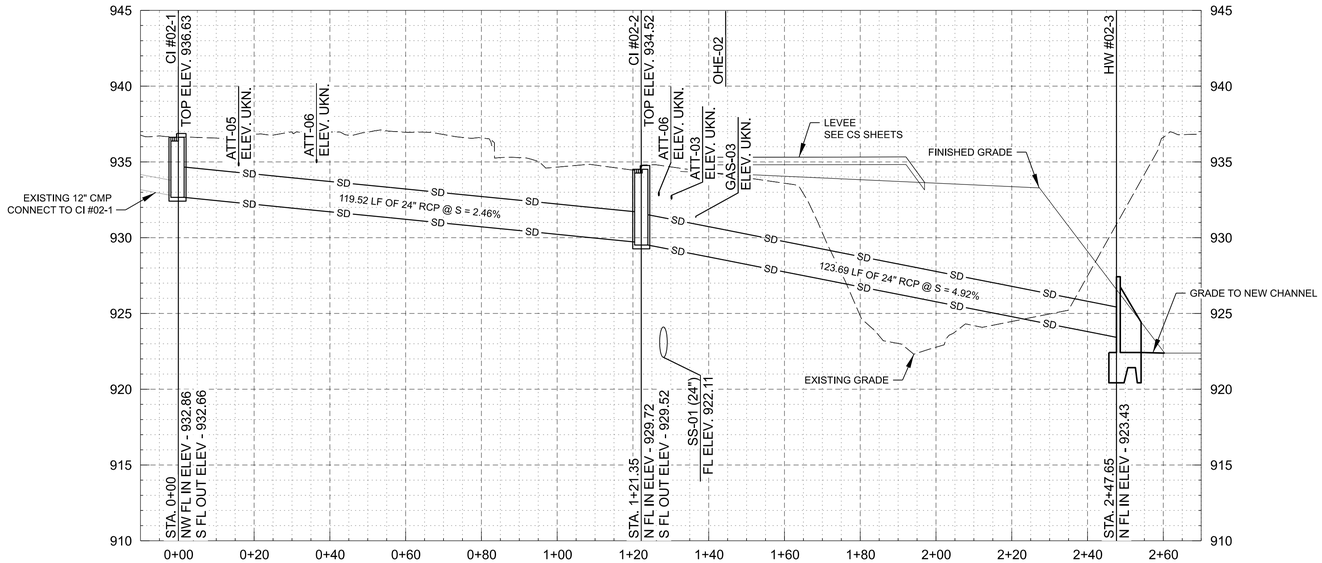


D1 PLAN - ST-02A

SCALE: 1" = 20'



A1 PROFILE - ST-02A

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

0 20' 40'
0 5' 10'

GENERAL NOTES

1. CONTRACTOR MUST VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO WORK ACTIVITIES.
2. CONTRACTOR MUST PROTECT EXISTING UTILITIES IN-PLACE.
3. CONTRACTOR MAY ADJUST RIM ELEVATION OF CURB INLETS TO MATCH EXISTING CONDITIONS. CONTRACTOR MUST DOCUMENT AND SUBMIT REDLINES AND AS-BUILTS IN ACCORDANCE WITH SPECIFICATION SECTION 01 78 00.

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STORMWATER
PLAN AND PROFILE
ST-02A

SHEET ID

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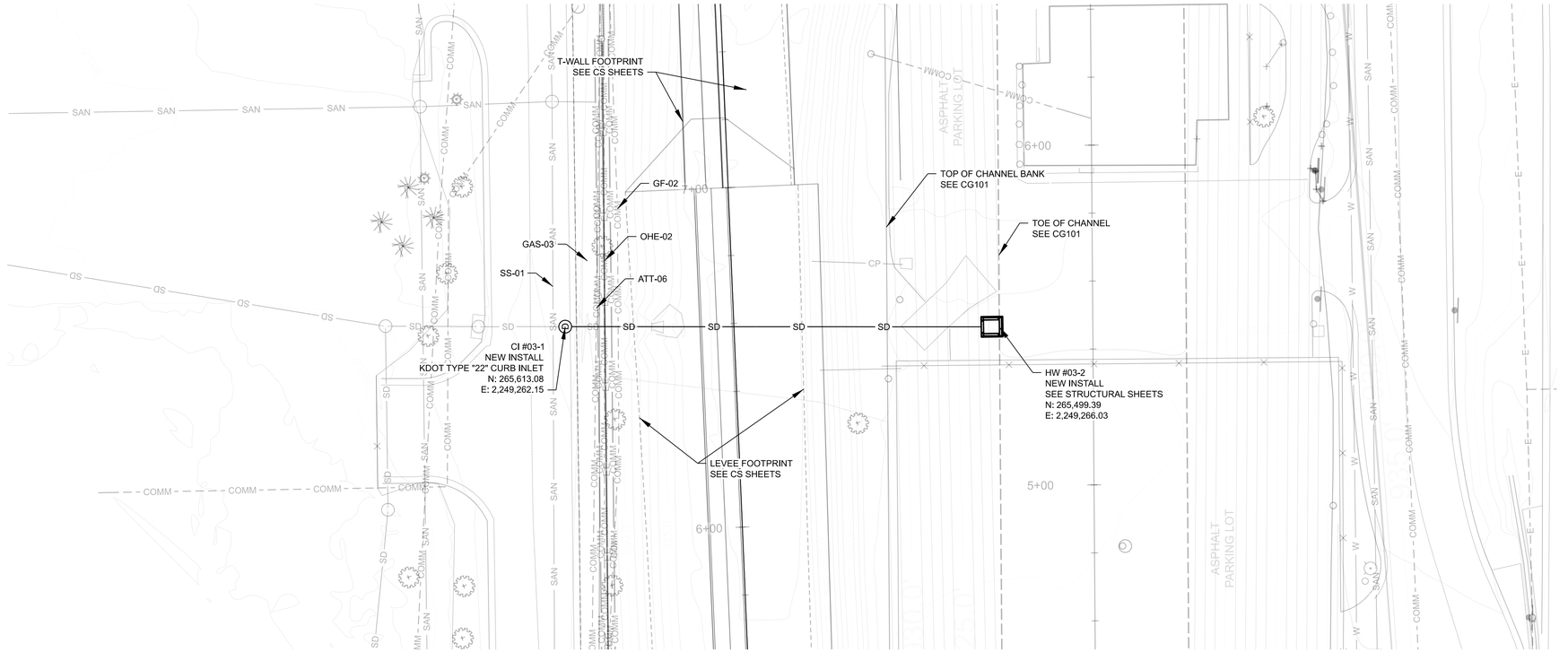
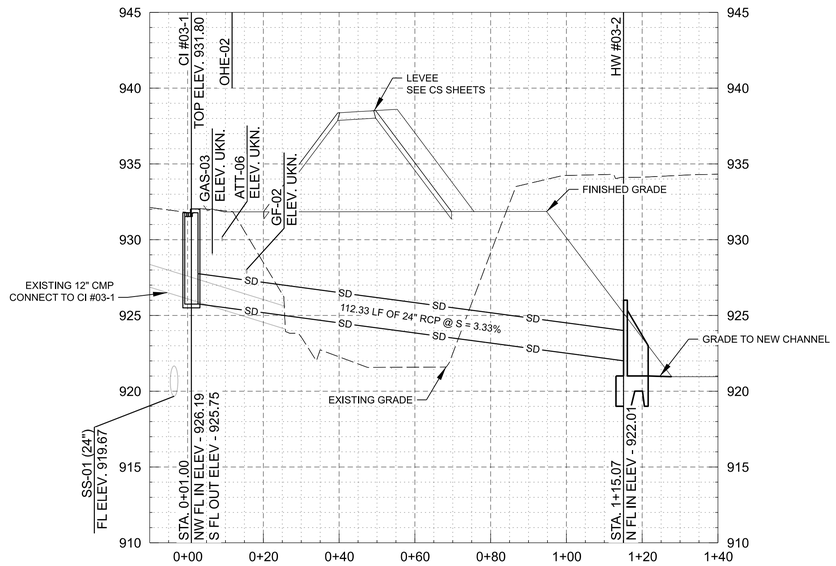


D1 PLAN - ST-03A

SCALE: 1" = 20'

0 20' 40'



A1 PROFILE - ST-03A

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

0 20' 40'
0 5' 10'

GENERAL NOTES

1. CONTRACTOR MUST VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO WORK ACTIVITIES.
2. CONTRACTOR MUST PROTECT EXISTING UTILITIES IN-PLACE.
3. CONTRACTOR MAY ADJUST RIM ELEVATION OF CURB INLETS TO MATCH EXISTING CONDITIONS. CONTRACTOR MUST DOCUMENT AND SUBMIT REDLINES AND AS-BUILTS IN ACCORDANCE WITH SPECIFICATION SECTION 01 78 00.

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U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

STORMWATER
PLAN AND PROFILE
ST-03A

SHEET ID

CG402

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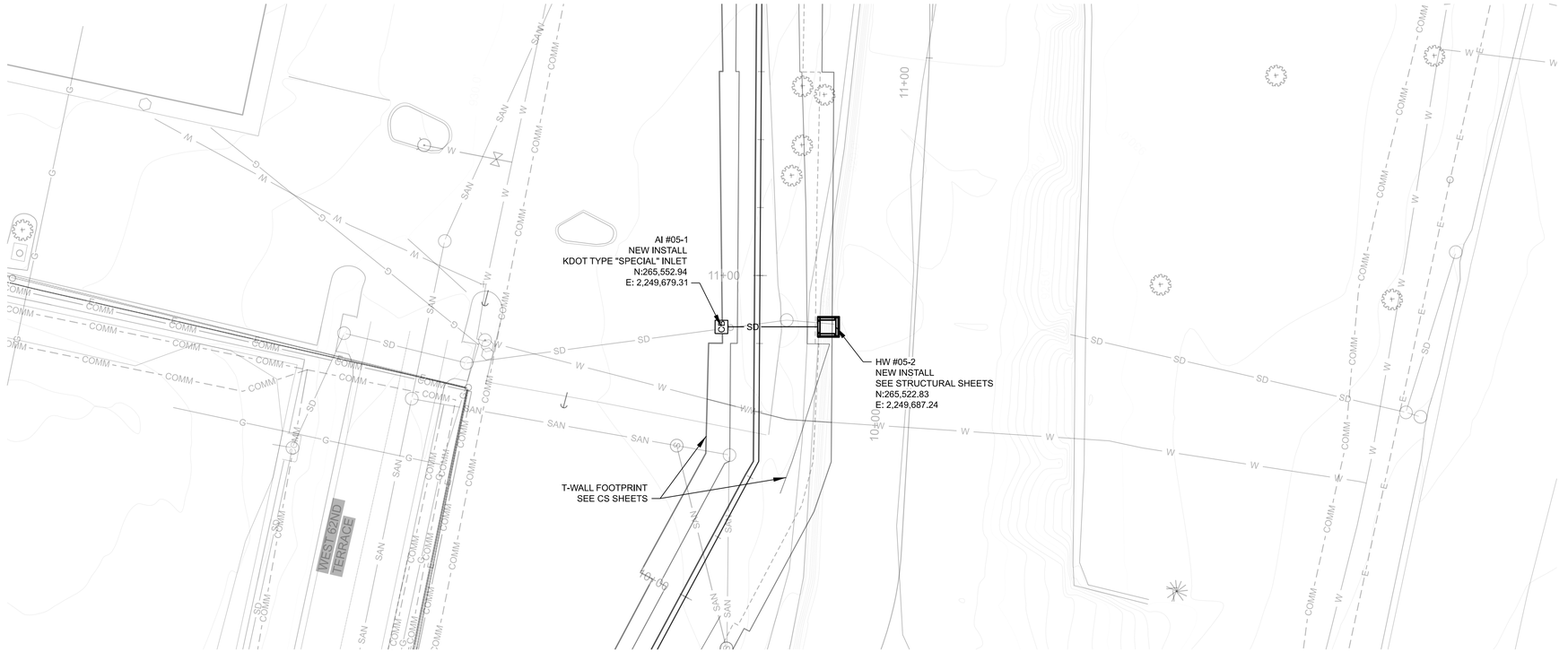
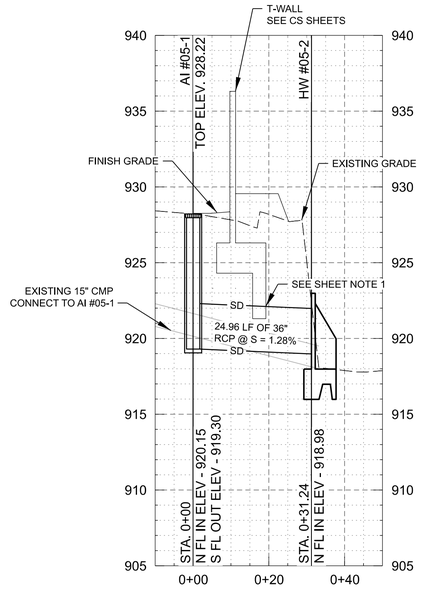


PLAN NORTH

D1 PLAN - ST-05A

SCALE: 1" = 20'

0 20' 40'



A1 PROFILE - ST-05A

HORIZONTAL SCALE: 1" = 20'

VERTICAL SCALE: 1" = 5'

0 20' 40'

0 5' 10'

GENERAL NOTES

1. CONTRACTOR MUST VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO WORK ACTIVITIES.
2. CONTRACTOR MUST PROTECT EXISTING UTILITIES IN-PLACE.
3. CONTRACTOR MAY ADJUST RIM ELEVATION OF CURB INLETS TO MATCH EXISTING CONDITIONS. CONTRACTOR MUST DOCUMENT AND SUBMIT REDLINES AND AS-BUILTS IN ACCORDANCE WITH SPECIFICATION SECTION 01 78 00.

GENERAL SHEET NOTES

1. CONTRACTOR MUST PROVIDE WATERSTOP IN THE INTERFACE BETWEEN THE RCP AND THE FLOODWALL HEEL. SEE STRUCTURAL SHEET S501 FOR DETAILS.

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MARK	DESCRIPTION	DATE

DESIGNED BY: F. PRITT	ISSUE DATE: MARCH 2026
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P2 - 505229, FY2023

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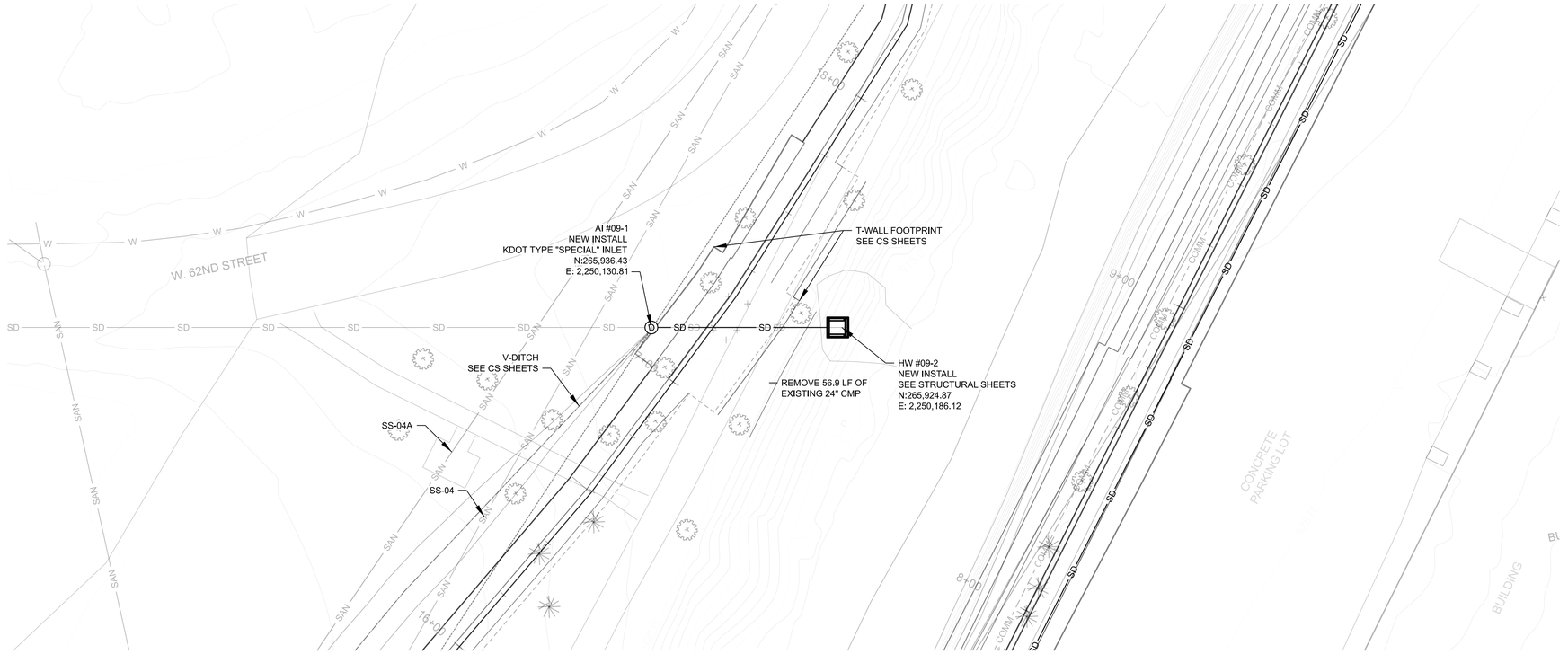

D1 PLAN - ST-09A

SCALE: 1" = 20'

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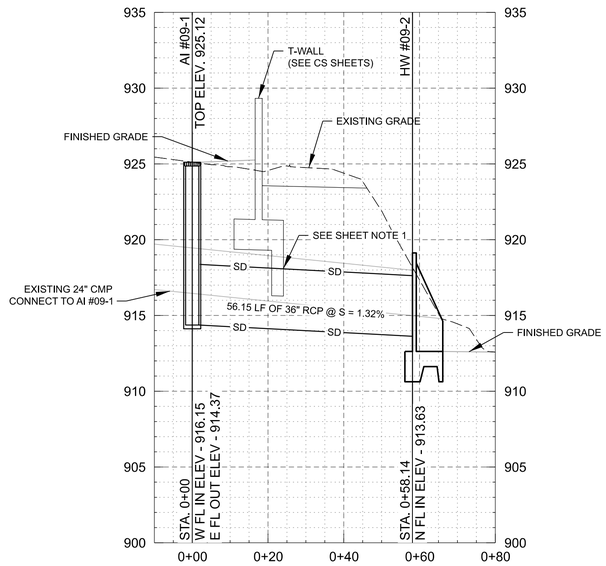

A1 PROFILE - ST-09A

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

0 20' 40'
0 5' 10'

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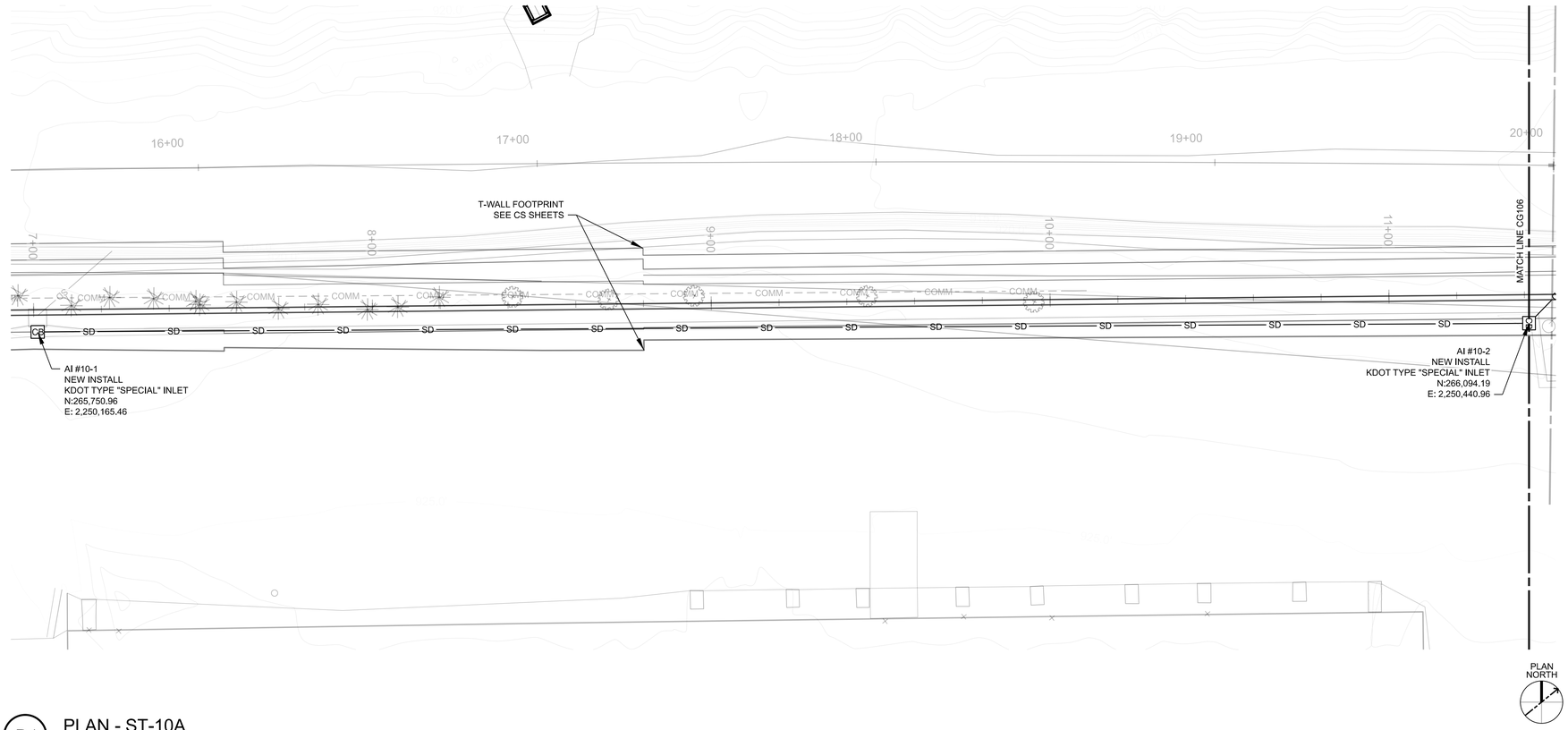
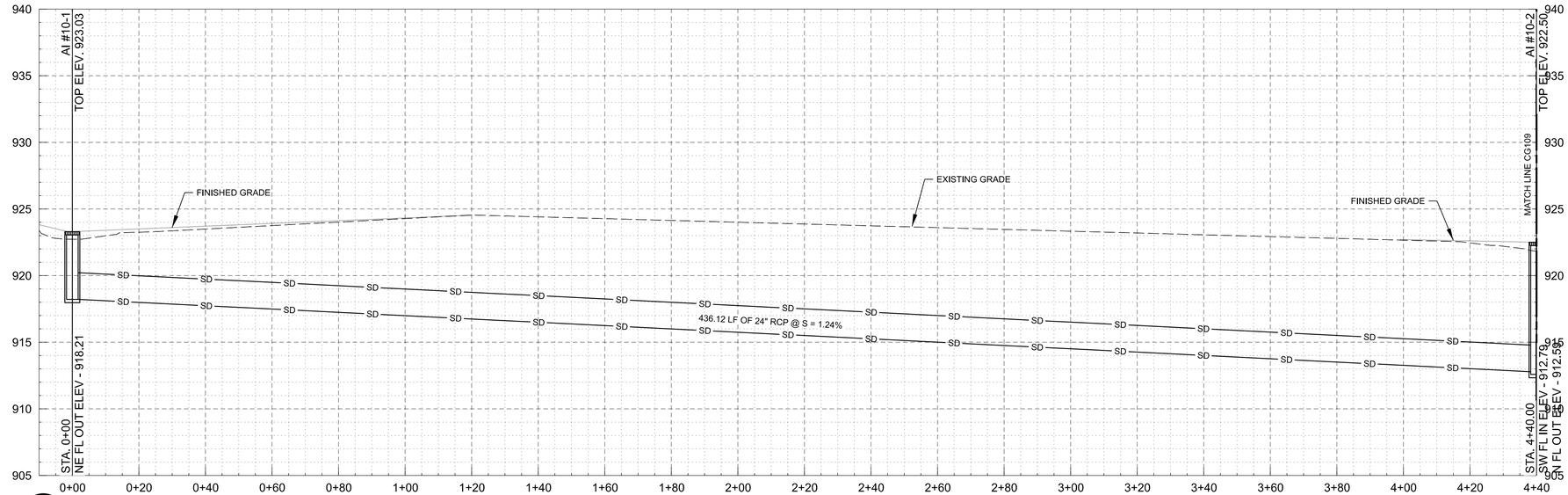


D1 PLAN - ST-10A

SCALE: 1" = 20'



A1 PROFILE - ST-10A

HORIZONTAL SCALE: 1" = 20'

VERTICAL SCALE: 1" = 5'

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UPPER TURKEY CREEK
P2 - 505229, FY2023

STORMWATER
PLAN AND PROFILE
ST-10A (1 OF 2)

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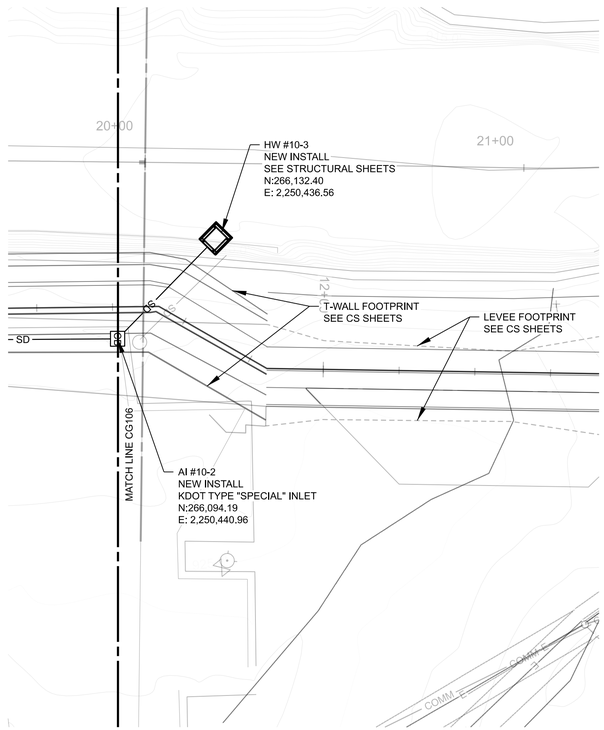
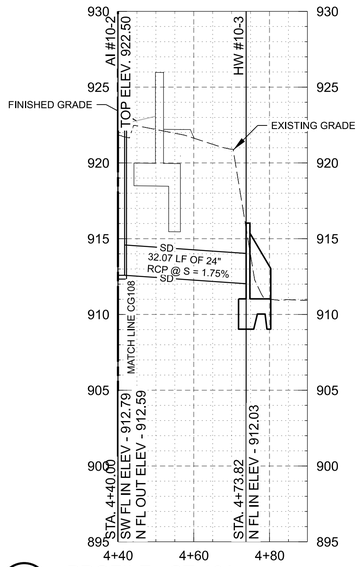


PLAN NORTH

D1 PLAN - ST-10A

SCALE: 1" = 20'

0 20' 40'



A1 PROFILE - ST-10A

HORIZONTAL SCALE: 1" = 20'

VERTICAL SCALE: 1" = 5'

0 20' 40'

0 5' 10'

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FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

STORMWATER
PLAN AND PROFILE
ST-10A (2 OF 2)

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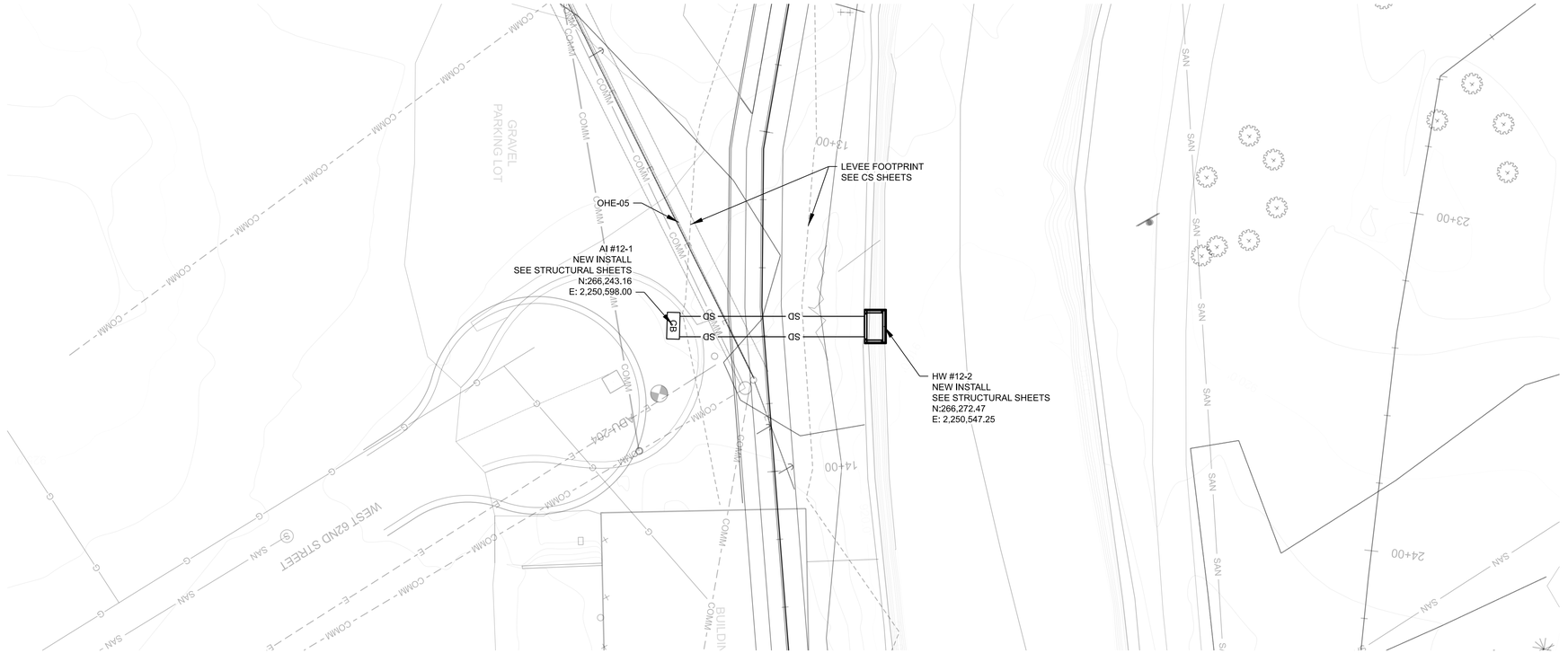
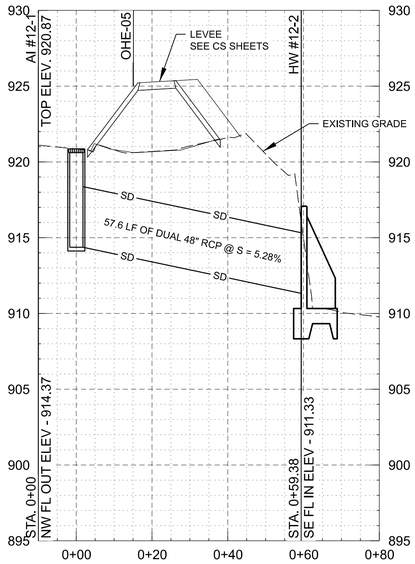


D1 PLAN - ST-12A

SCALE: 1" = 20'

0 20' 40'



A1 PROFILE - ST-12A

HORIZONTAL SCALE: 1" = 20'

VERTICAL SCALE: 1" = 5'

0 20' 40'

0 5' 10'

GENERAL NOTES

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P2 - 505229, FY2023

STORMWATER
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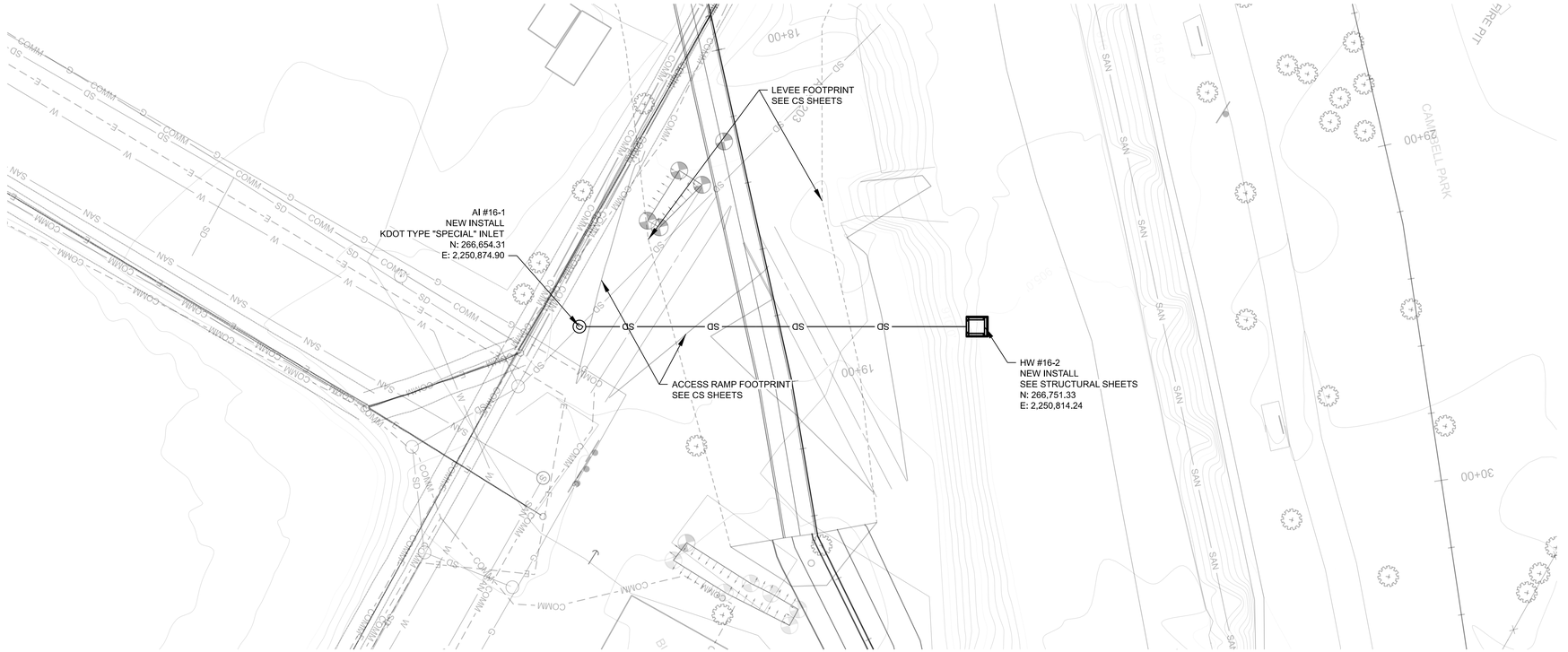

PLAN NORTH

D1 PLAN - ST-16A

SCALE: 1" = 20'

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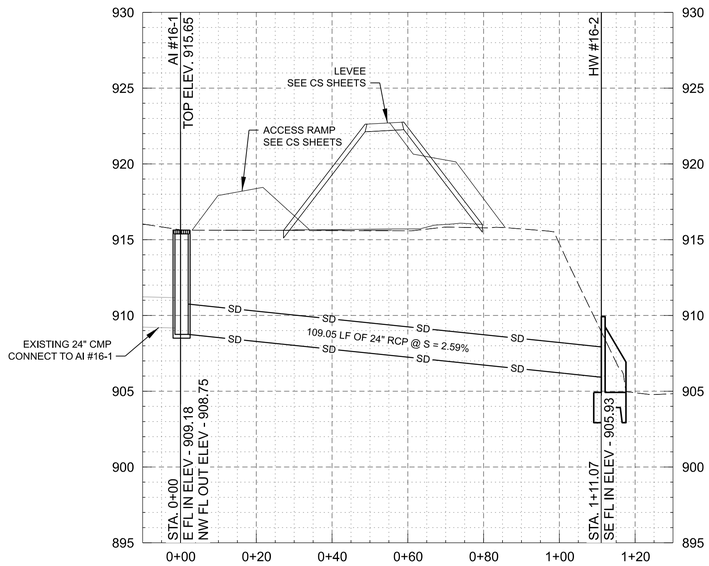

A1 PROFILE - ST-16A

HORIZONTAL SCALE: 1" = 20'

VERTICAL SCALE: 1" = 5'

0 20' 40'

0 5' 10'

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UPPER TURKEY CREEK
P2 - 505229, FY2023

STORMWATER
PLAN AND PROFILE
ST-16A

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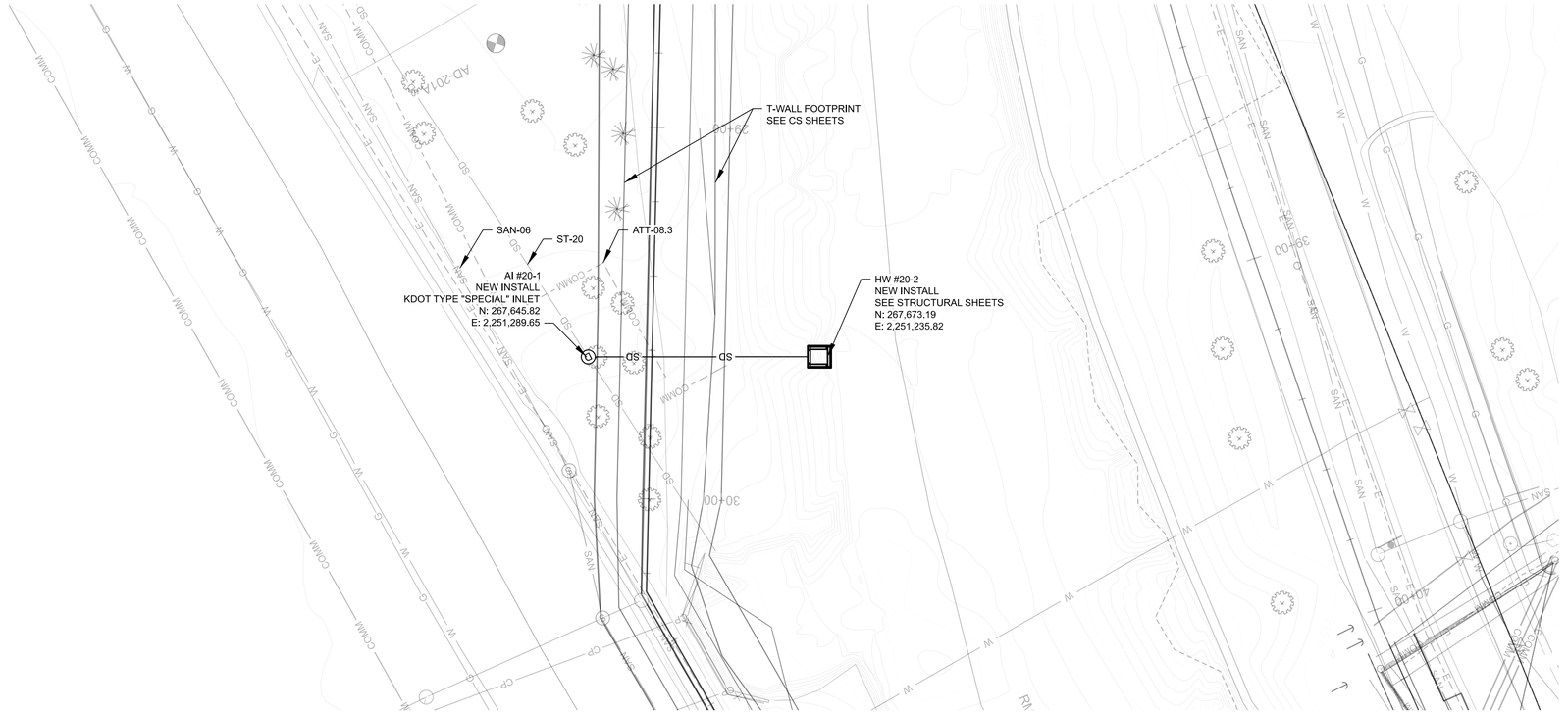

D1 PLAN - ST-20A

SCALE: 1" = 20'

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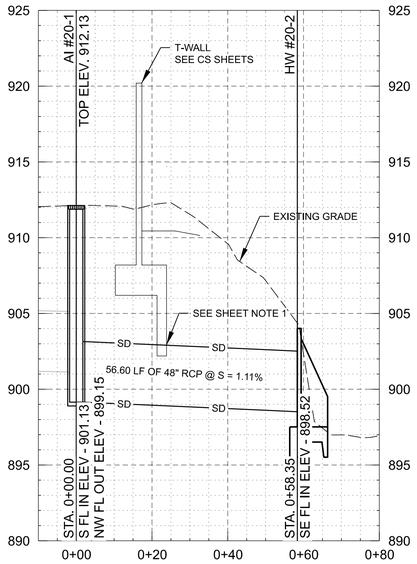

A1 PROFILE - ST-20A

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

0 20' 40'
0 5' 10'

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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

STORMWATER
PLAN AND PROFILE
ST-20A

SHEET ID
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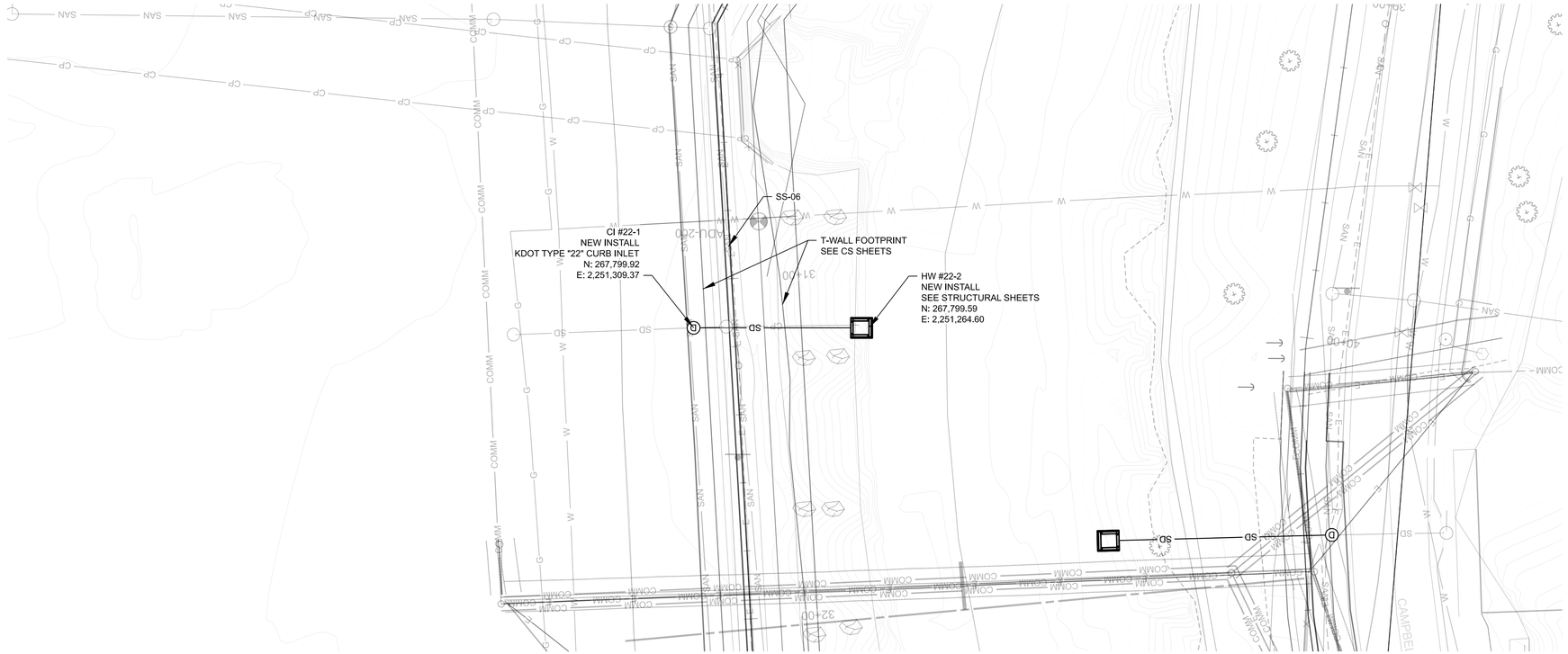
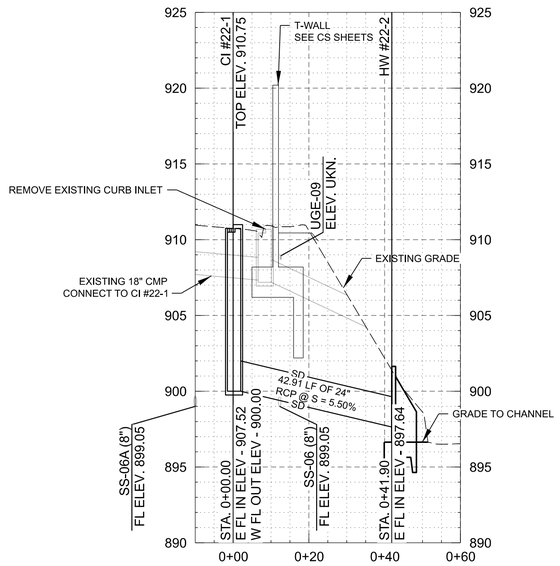


PLAN NORTH

D1 PLAN - ST-22A

SCALE: 1" = 20'

0 20' 40'



A1 PROFILE - ST-22A

HORIZONTAL SCALE: 1" = 20'

VERTICAL SCALE: 1" = 5'

0 20' 40'

0 5' 10'

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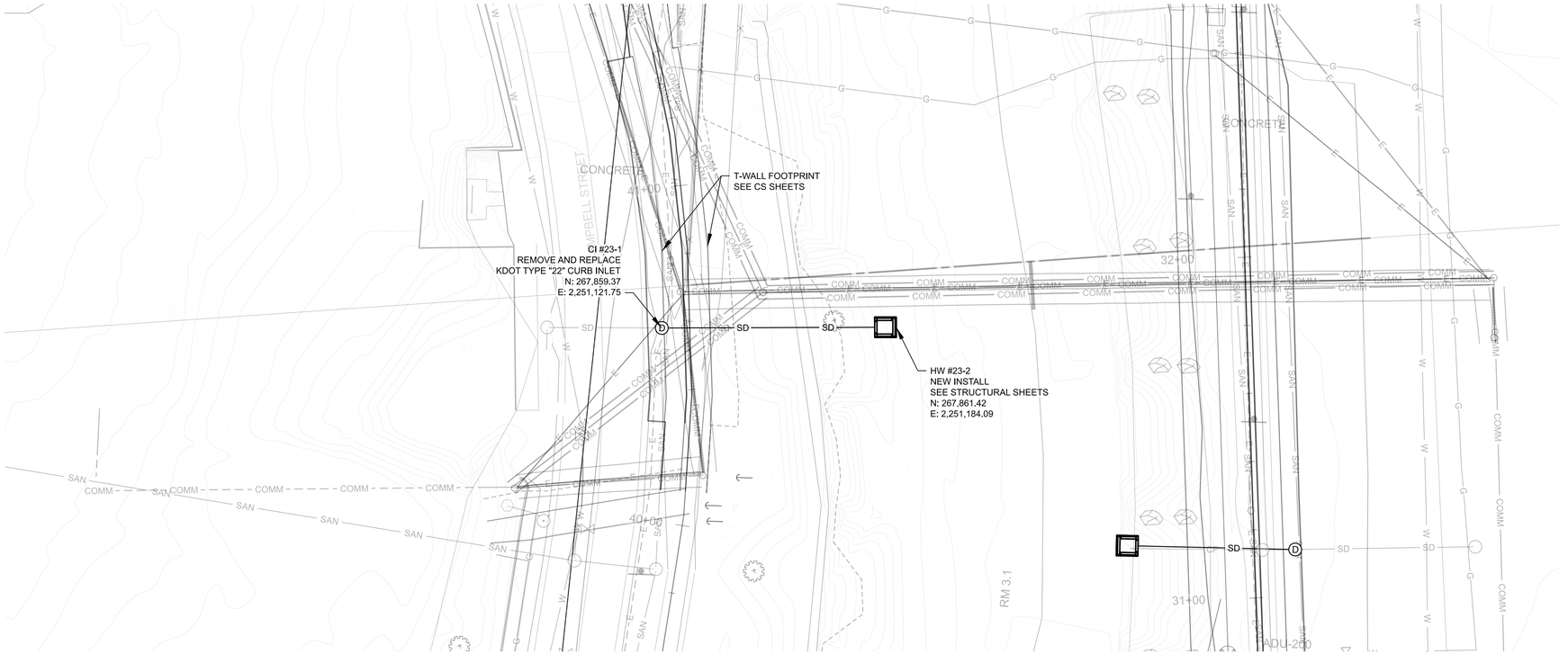
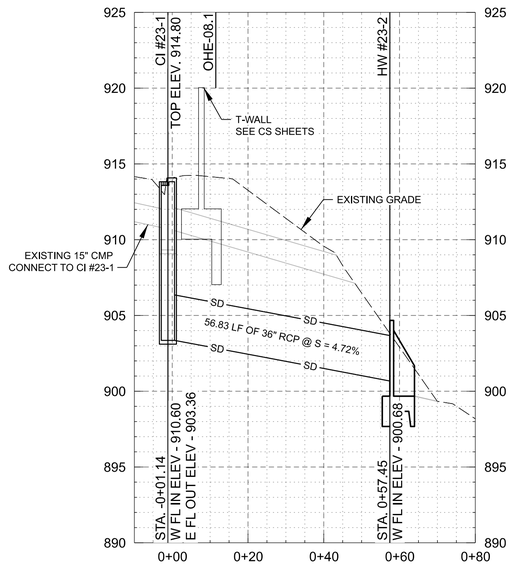


PLAN NORTH

D1 PLAN - ST-23A
SCALE: 1" = 20'

0 20' 40'



A1 PROFILE - ST-23A
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

0 20' 40'
0 5' 10'

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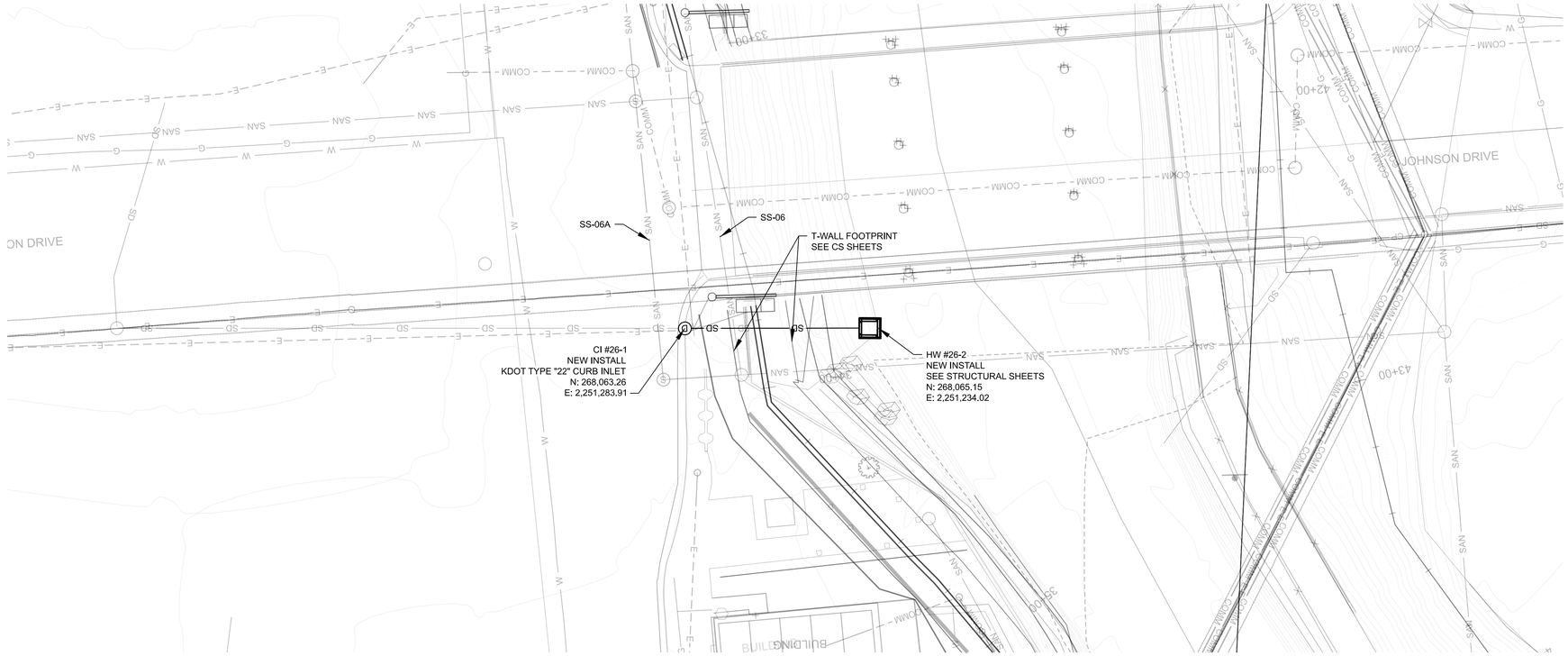
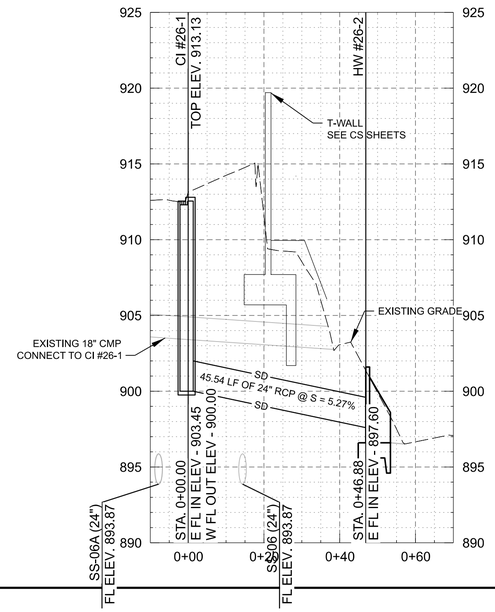


D1 PLAN - ST-26A

SCALE: 1" = 20'

0 20' 40'



A1 PROFILE - ST-26A

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

0 20' 40'
0 5' 10'

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UPPER TURKEY CREEK
P2 - 505229, FY2023

STORMWATER
PLAN AND PROFILE
ST-26A

SHEET ID

CG412

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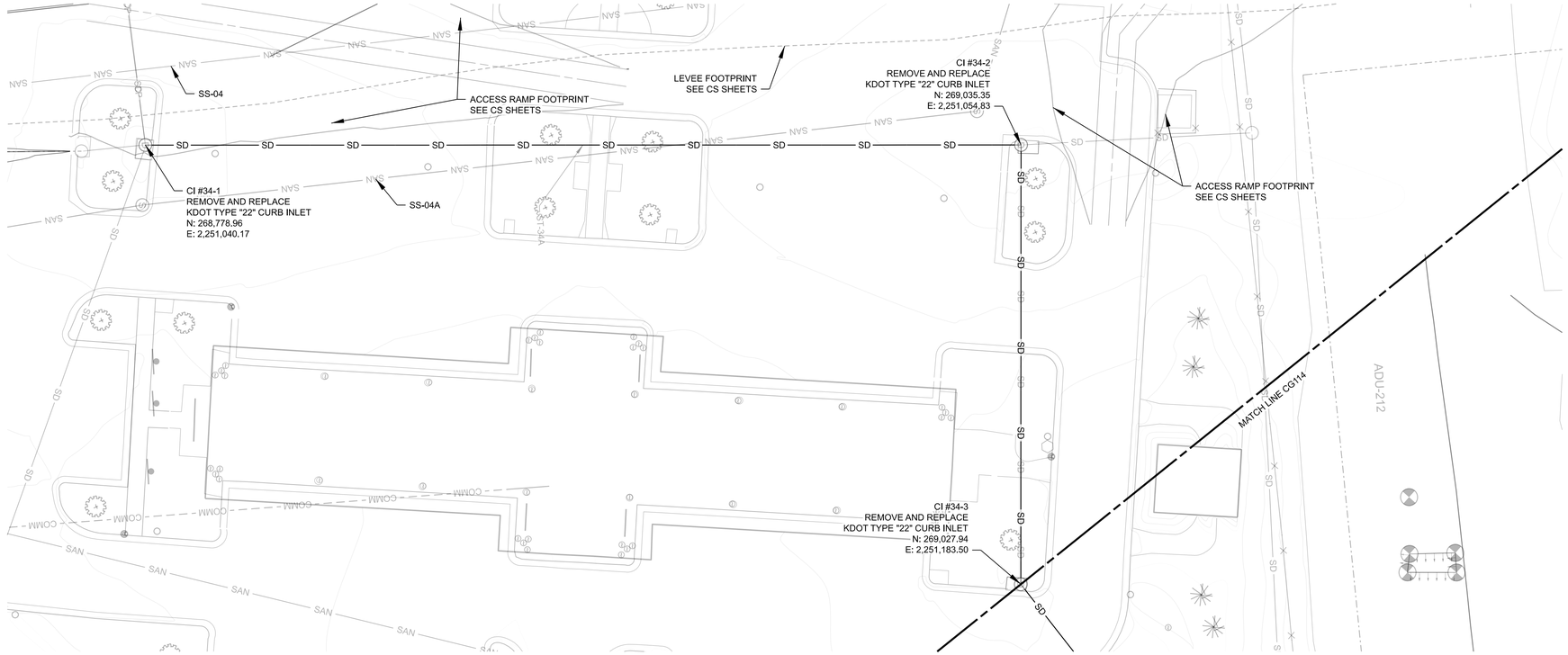
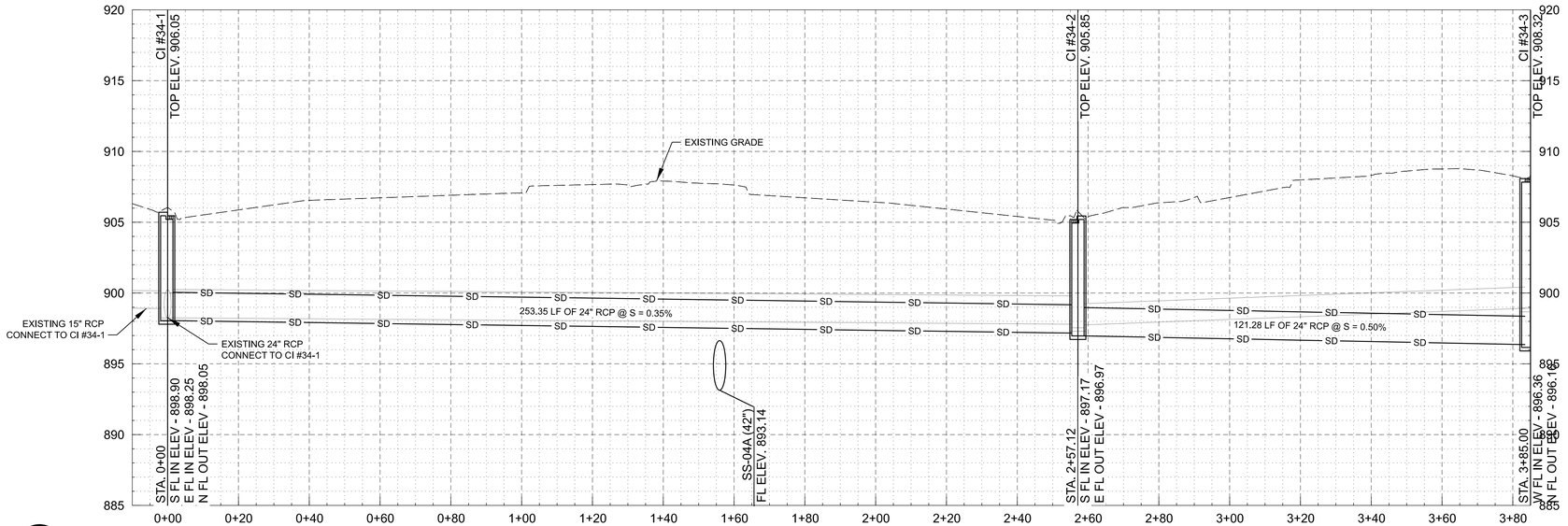


D1 PLAN - ST-34A

SCALE: 1" = 20'



A1 PROFILE - ST-34A

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

GENERAL NOTES

1. CONTRACTOR MUST VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO WORK ACTIVITIES.
2. CONTRACTOR MUST PROTECT EXISTING UTILITIES IN-PLACE.
3. CONTRACTOR MAY ADJUST RIM ELEVATION OF CURB INLETS TO MATCH EXISTING CONDITIONS. CONTRACTOR MUST DOCUMENT AND SUBMIT REDLINES AND AS-BUILTS IN ACCORDANCE WITH SPECIFICATION SECTION 01 78 00.

US Army Corps of Engineers®

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SUBMITTED BY:	FILE NO.:
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U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

STORMWATER
PLAN AND PROFILE
ST-34A (1 OF 2)

SHEET ID
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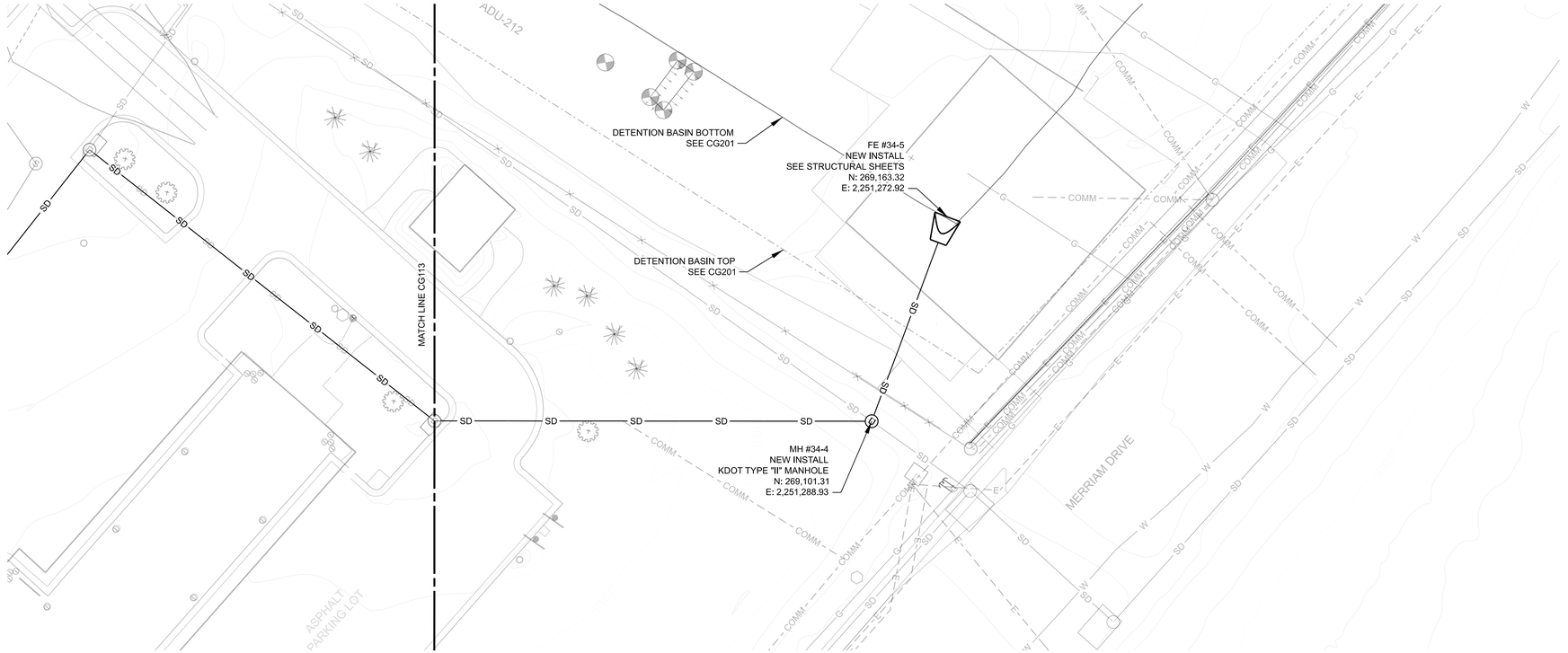
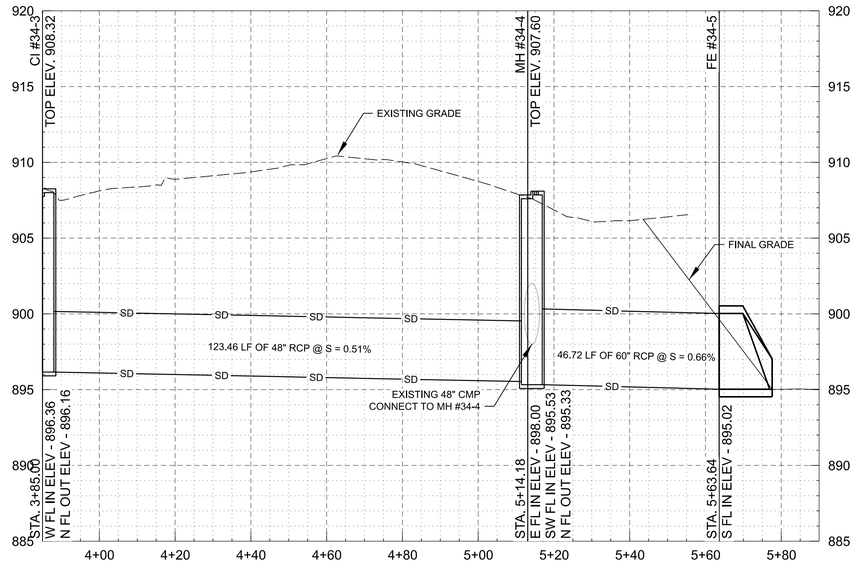


D1 PLAN - ST-34A

SCALE: 1" = 20'

0 20' 40'



A1 PROFILE - ST-34A

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

0 20' 40'
0 5' 10'

GENERAL NOTES

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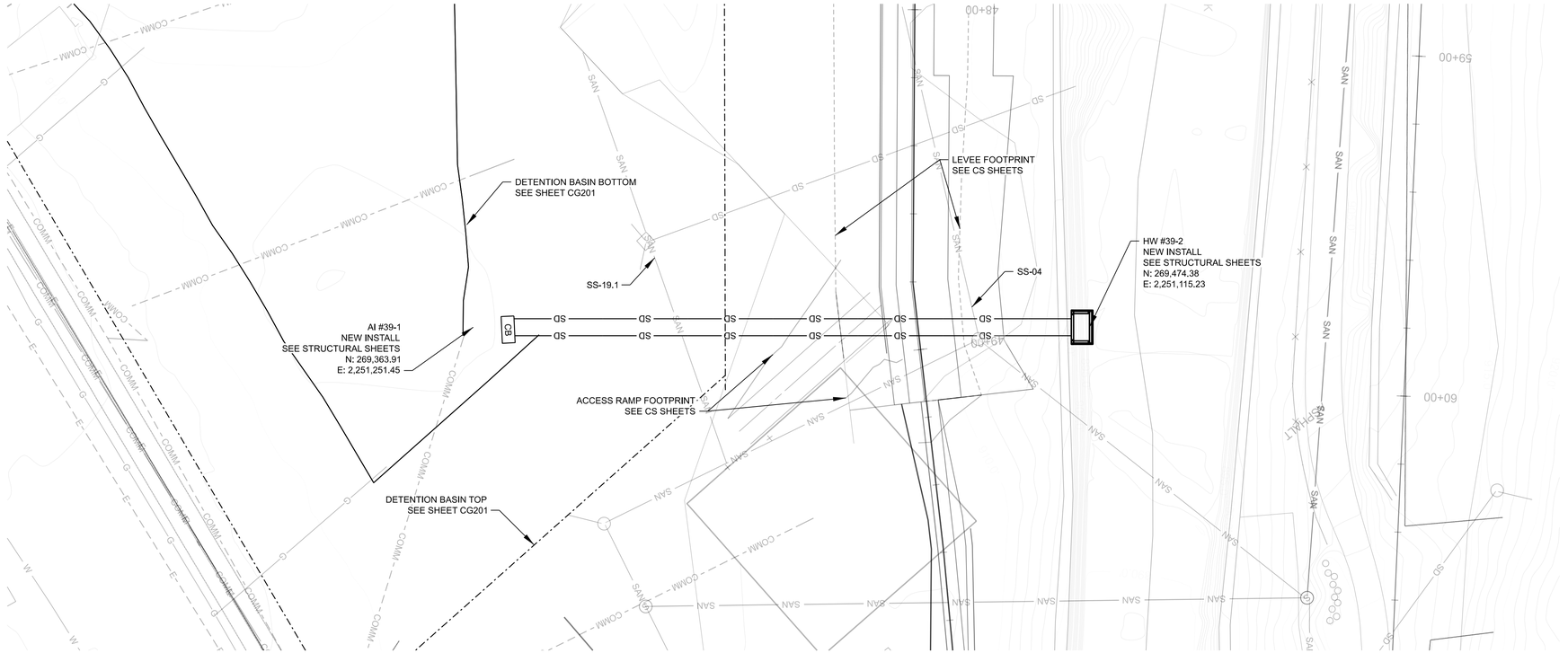
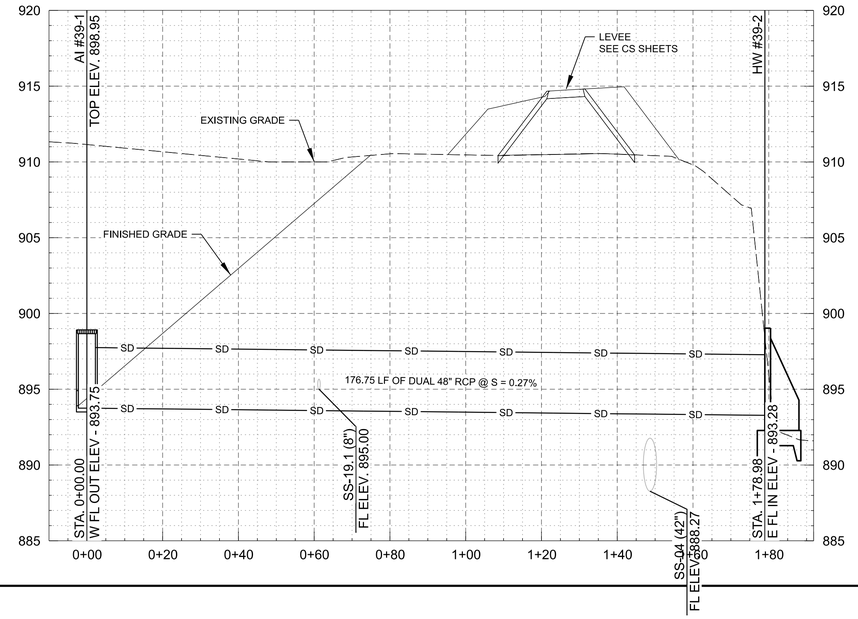


D1 PLAN - ST-39A

SCALE: 1" = 20'



A1 PROFILE - ST-39A

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

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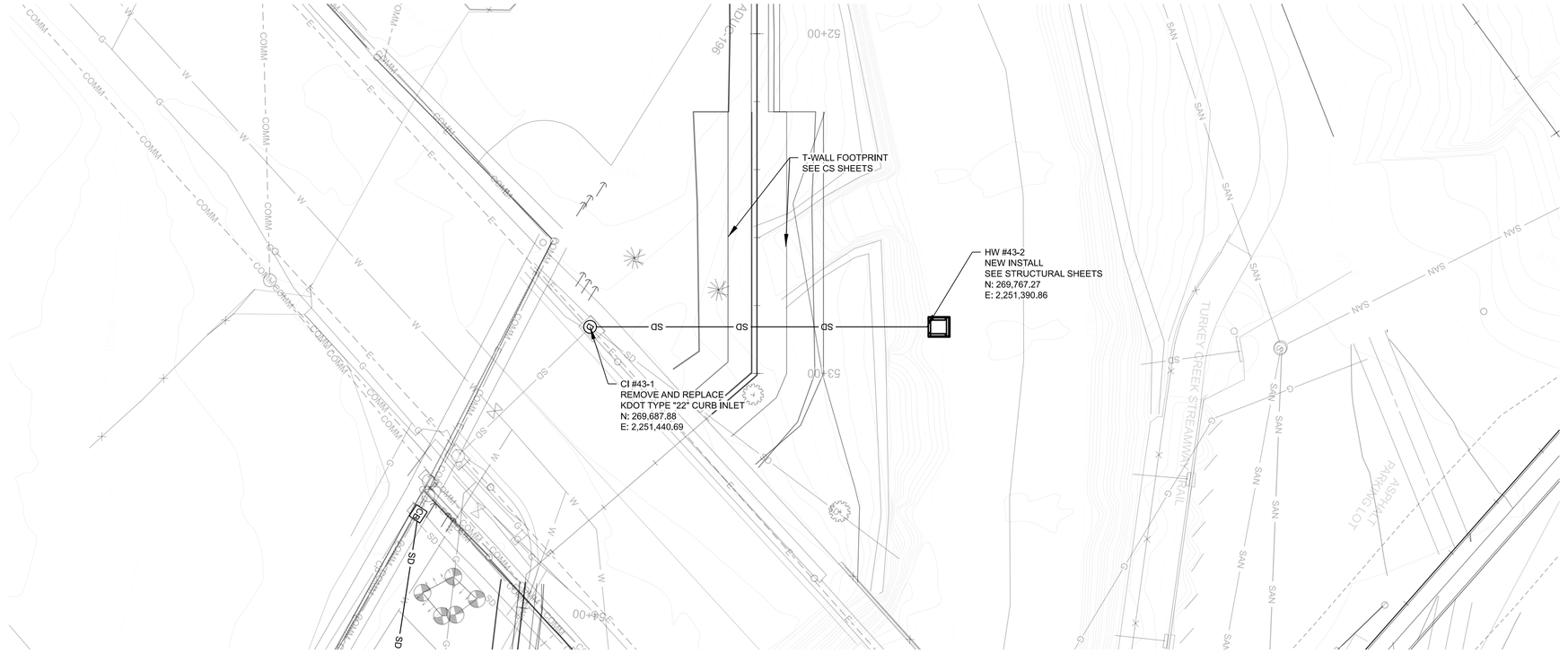
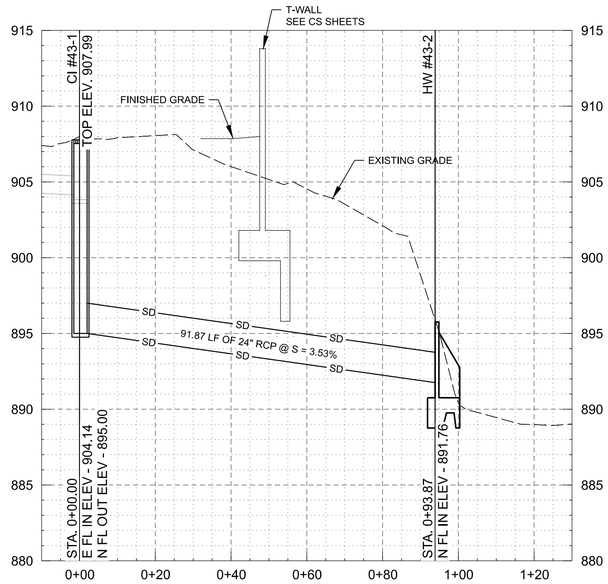


D1 PLAN - ST-43A
SCALE: 1" = 20'

0 20' 40'



A1 PROFILE - ST-43A
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

0 20' 40'
0 5' 10'

GENERAL NOTES

1. CONTRACTOR MUST VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO WORK ACTIVITIES.
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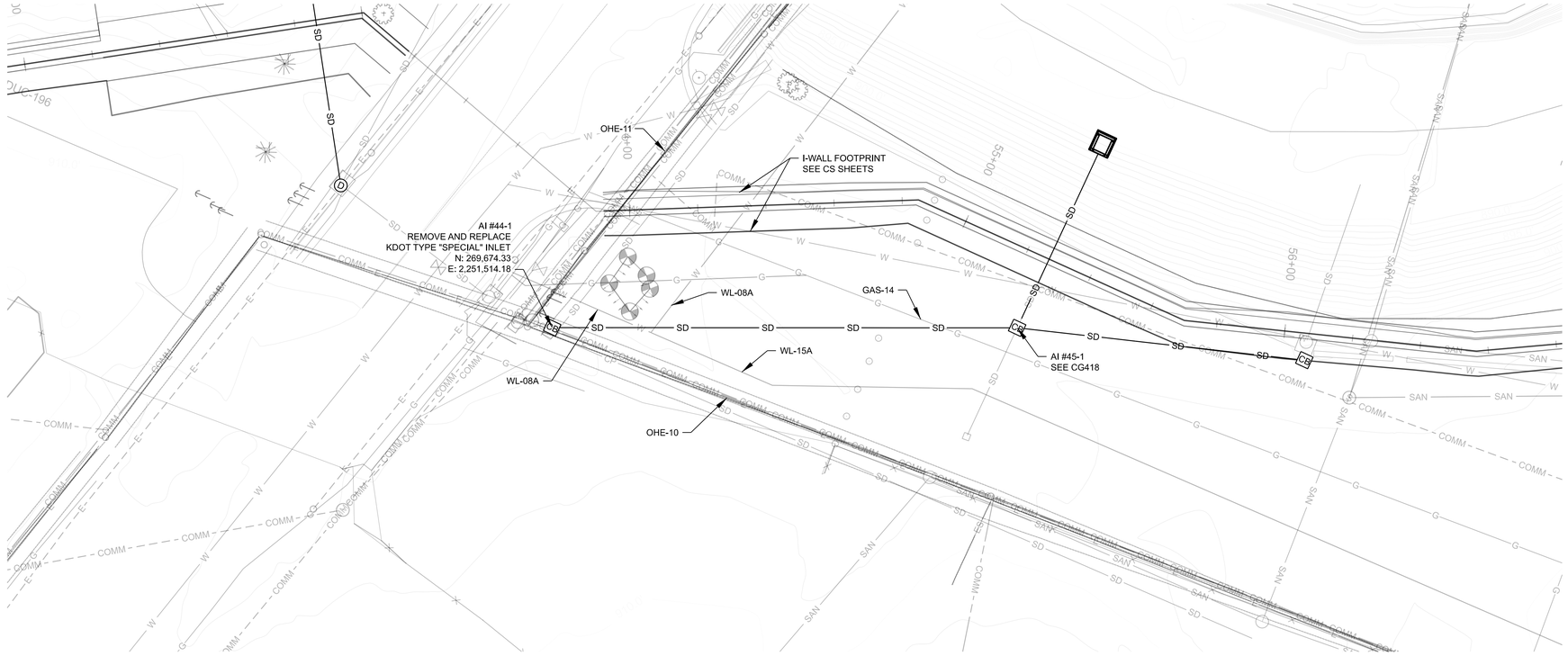
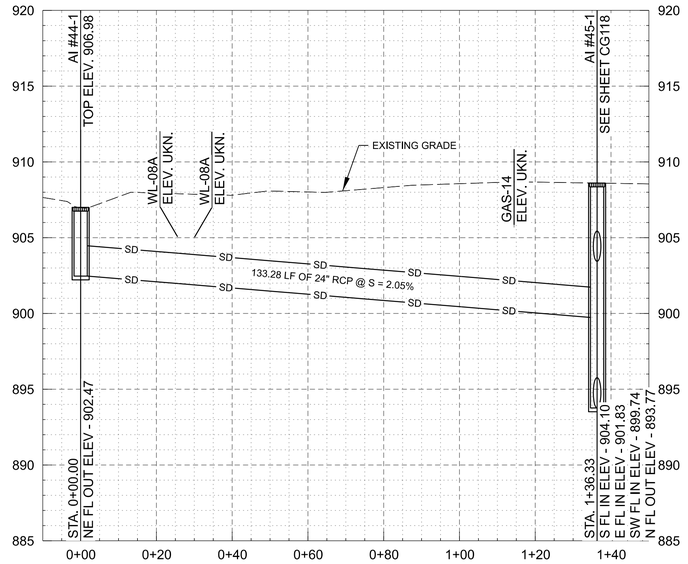


D1 PLAN - ST-44A

SCALE: 1" = 20'

0 20' 40'



A1 PROFILE - ST-44A

HORIZONTAL SCALE: 1" = 20'

VERTICAL SCALE: 1" = 5'

0 20' 40'

0 5' 10'

GENERAL NOTES

1. CONTRACTOR MUST VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO WORK ACTIVITIES.
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STORMWATER
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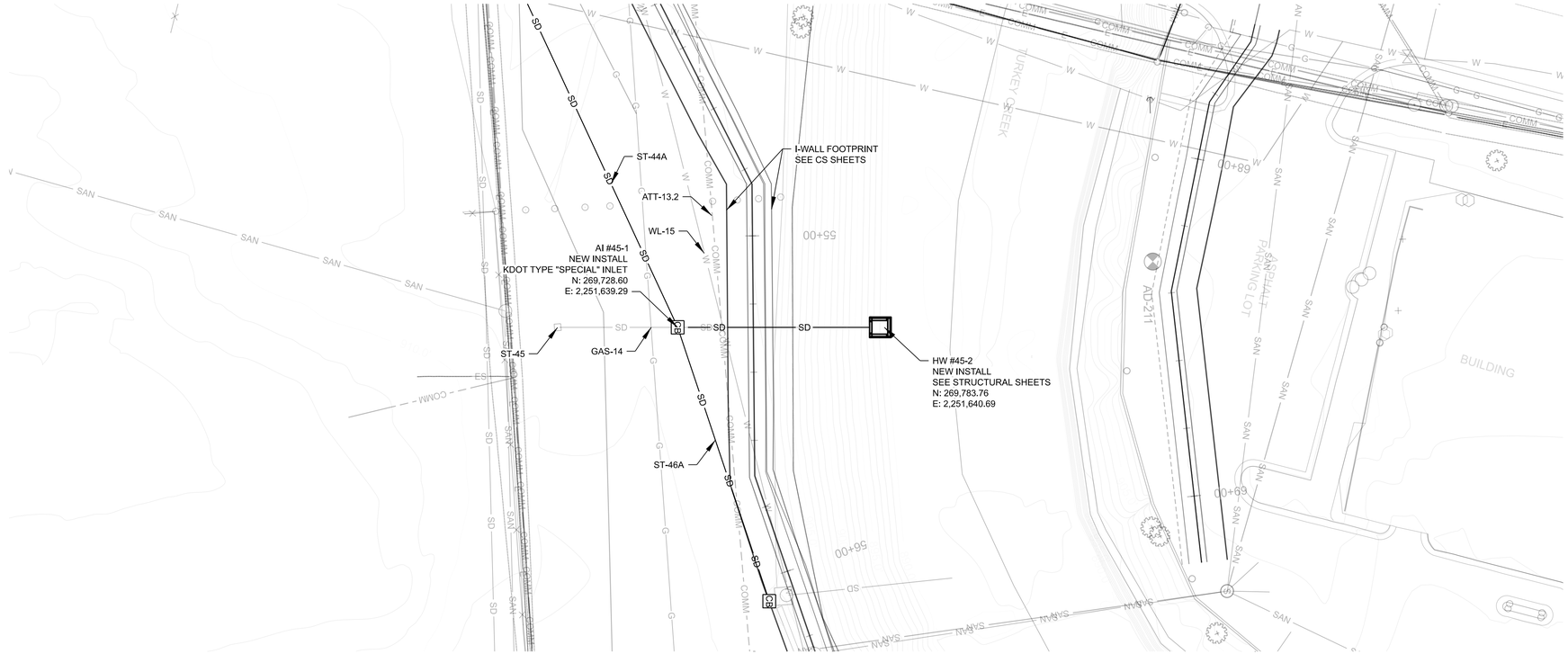
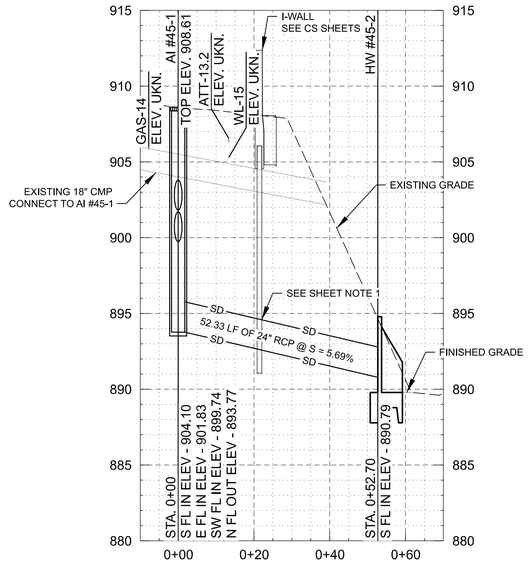


D1 PLAN - ST-45A

SCALE: 1" = 20'

0 20' 40'



A1 PROFILE - ST-45A

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

0 20' 40'
0 5' 10'

GENERAL NOTES

1. CONTRACTOR MUST VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO WORK ACTIVITIES.
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GENERAL SHEET NOTES

1. CONTRACTOR MUST PROVIDE WATERSTOP IN THE INTERFACE BETWEEN THE RCP AND SHEETPILE. SEE STRUCTURAL SHEET S501 FOR DETAILS ON CROSSING SHEETPILE WALL.

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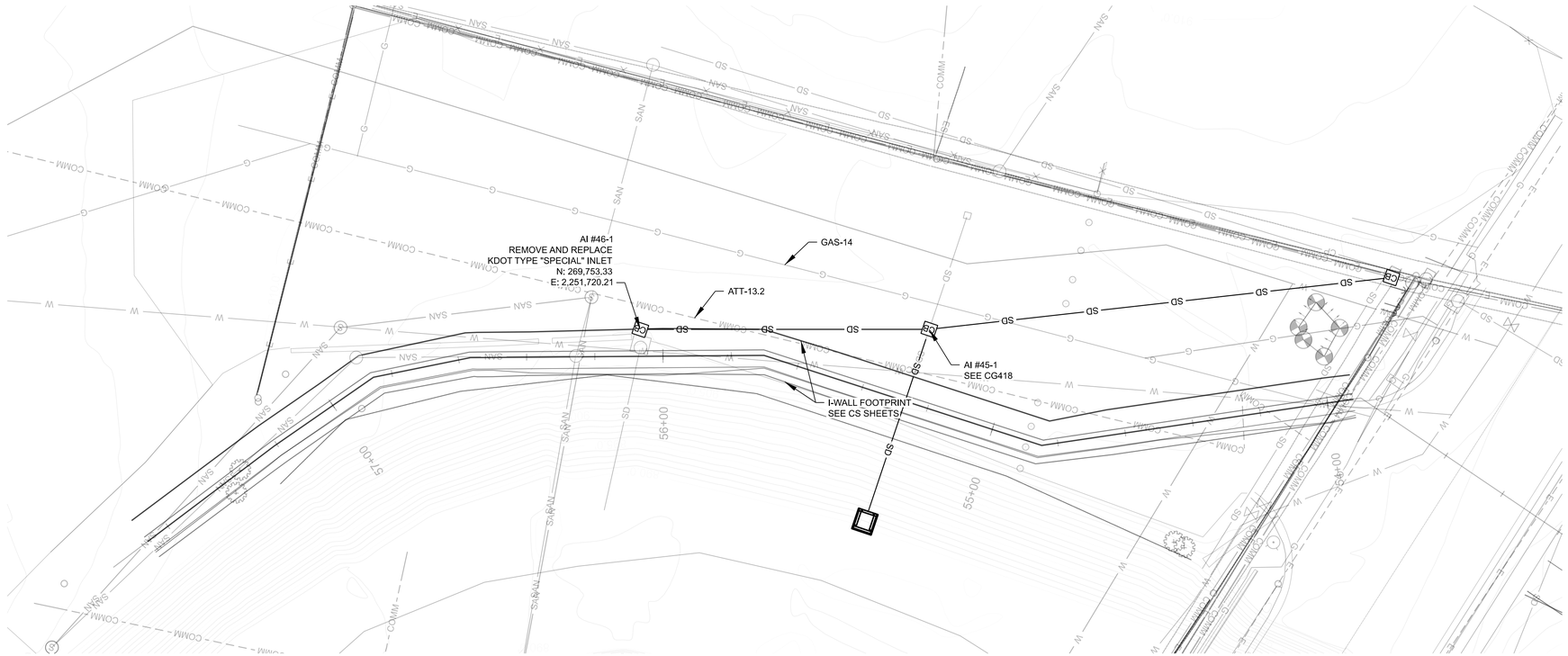

D1 PLAN - ST-46A

SCALE: 1" = 20'

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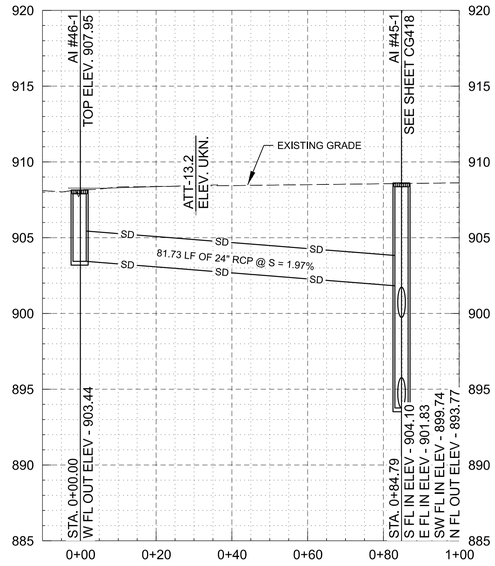

A1 PROFILE - ST-46A

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

0 20' 40'
0 5' 10'

GENERAL NOTES

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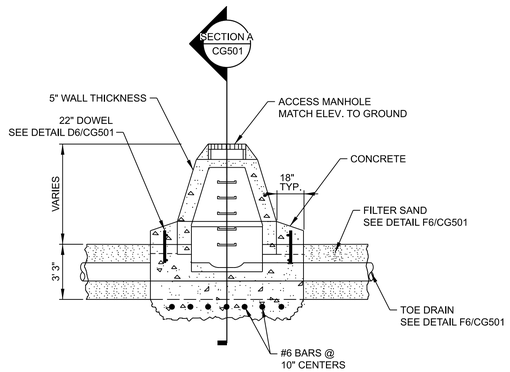
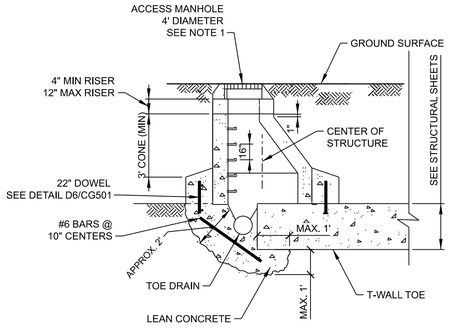


ELEVATION

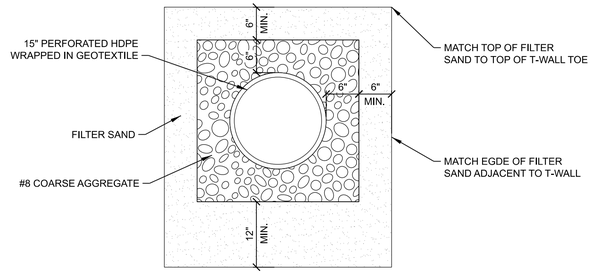


SECTION A

NOTES:
1. LOCATIONS SHOWN ON CONSTRUCTION PLANS ARE TO CENTER OF STRUCTURE.

D1 TOE DRAIN ACCESS MANHOLE SECTIONS

SCALE: NTS



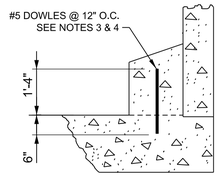
NOTES:
1. C33 FILTER SAND MUST SURROUND ENTIRE COURSE OF #8 COARSE AGGREGATE BY MINIMUM DIMENSIONS OF 6". ADJUST THICKNESS OF FILTER SAND TO MATCH SLOPES OF PIPE AND PROXIMITY OF T-WALL TOE.
2. SEE SPEC SECTION XX XX XX FOR GEOTEXTILE.

F6 TOE DRAIN DETAIL

SCALE: NTS

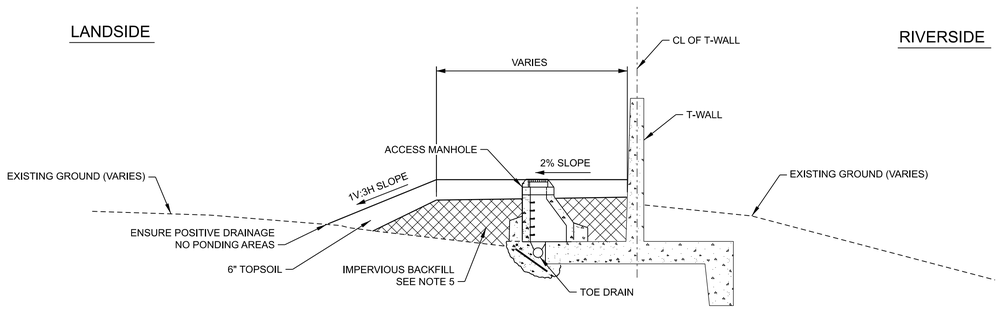
GENERAL SHEET NOTES

1. THE PRECAST MANHOLE RISERS SHALL HAVE A 4-FOOT DIAMETER, A WALL THICKNESS OF 5-INCHES AND CONFORM TO ASTM C478. THE FLAT SOLID LIDS SHALL BE PRECAST AND DESIGNED TO RESIST HS-20 LOADING. COVERS AND RINGS SHALL CONFORM TO ASTM48, CLASS 35B, FRAME 225 LBS., COVER 135 LBS. JOINT SEALANT FOR PRECAST SECTIONS SHALL BE PREFORMED, FLEXIBLE, BUTYL-RUBBER JOINT SEALANT CONFORMING TO FEDERAL SPECIFICATION SS-S-210.
2. PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE I. MIX PROPORTION FOR CONCRETE SHALL CONFORM TO ACI 318-19. THE CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI. CONCRETE MUST NOT BE PLACED WHEN THE AMBIENT TEMPERATURE IS BELOW 32-DEGREES F OR ABOVE 95 DEGREES F.
3. STEEL REINFORCEMENT AND DOWELS SHALL BE ASTM A615, GRADE 60 DEFORMED BILLET STEEL BARS, UNCOATED FINISH AND CONFORMING TO ACI 318-19.
4. DOWEL BARS SHALL BE INSTALLED AS SHOWN USING AN ADHESIVE ANCHORING SYSTEM MEETING THE STRENGTH DESIGN PARAMETERS OF ESR-4868 AND THE EQUATIONS WITHIN ACI 318 CHAPTER 17, AND DESIGNED FOR A MINIMUM TENSION OF 11.75 KIPS AND SHEAR OF 25.3 KIPS. HOLES FOR DOWELS SHALL NOT BE LESS THAN 3 INCHES FROM THE EDGE OF THE FLOODWALL TOE. IF A REINFORCING BAR IS ENCOUNTERED WHILE DRILLING FOR A DOWEL BAR, THE HOLE SHALL BE FILLED WITH NON-SHRINK GROUT AND A NEW HOLE STARTED. THE NEW HOLE SHALL BE NO LESS 3-INCHES FROM THE FAILED HOLE. THE TOP STEEL IN THE TOE WALL IS DESIGNED TO BE IN COMPRESSION AND DAMAGE TO REINFORCING BAR WILL NOT AFFECT THE INTEGRITY OF THE STRUCTURE.
5. IMPERVIOUS FILL, MINUS TOPSOIL, SHALL BE BACKFILLED TO THE EXISTING GRADE WITH THE EXCAVATED MATERIAL REPLACED TO ITS ORIGINAL LOCATION AND COMPACTED TO 95% OF STANDARD PROCTOR. DURING EXCAVATION, MATERIAL SHOULD BE SORTED AND STOCKPILED BY THEIR SOIL CLASSIFICATION TO FACILTATE PROPER REPLACEMENT INTO THE STRATEGIC ZONES. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES AND FEATURES FROM DAMAGE WHILE PERFORMING THE WORK TO INSTALL THE TOE DRAIN ACCESS MANHOLE. IF DAMAGES OCCUR, NOTIFY THE DISTRICT'S REPRESENTATIVE AND AWAIT INSTRUCTIONS. THE CONSTRUCTOR SHALL USE STANDARD EROSION CONTROL PRACITCES TO PROTECT OPEN EXCAVATION AREAS.
6. MANHOLE TOP ADJUSTMENTS MUST BE ACCOMPLISHED BY THE USE OF CONCRETE ADJUSTMENT RINGS.
7. USE KCMO STANDARD MH-RC TYPE 3 RING AND COVER.



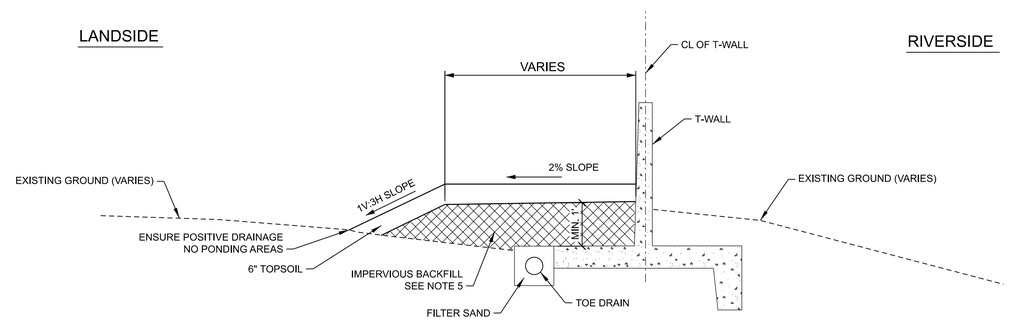
D6 TYPICAL DOWEL INSTALLATION

SCALE: NTS



A1 TOE DRAIN ACCESS MANHOLE

SCALE: NTS



A6 TOE DRAIN TYPICAL DETAIL

SCALE: NTS

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TOE DRAIN TYPICAL DETAILS

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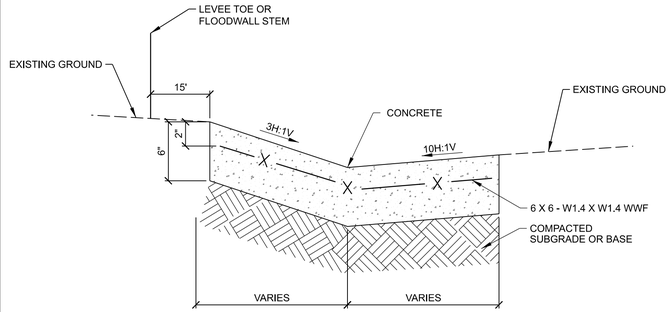
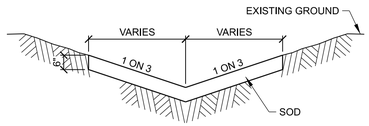
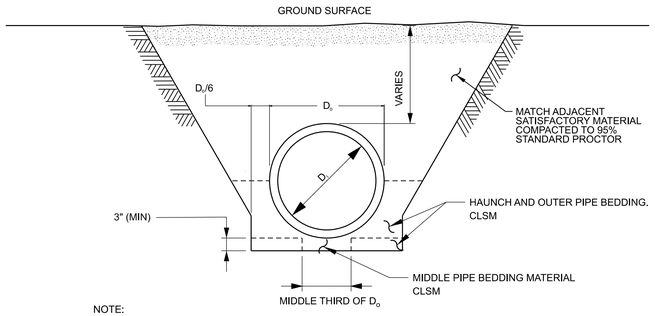


E1 CONCRETE V-DITCH (TYP)
SCALE: NTS

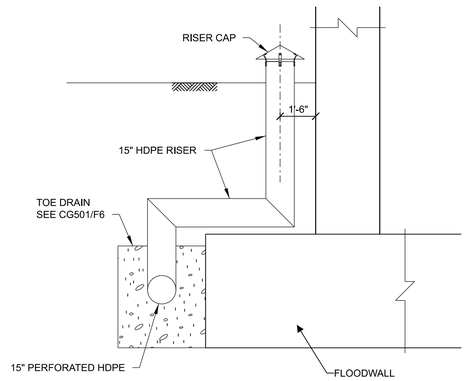


C1 SOD V-DITCH (TYP)
SCALE: NTS

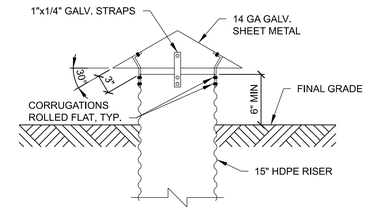


NOTE:
1. MAX SIDE SLOPE PER EM385-1-1.
2. SEE SPECIFICATIONS FOR BACKFILL MATERIAL REQUIREMENTS.

A1 TRENCH INSTALLATION (TYP)
SCALE: NTS



A6 TOE DRAIN STANDPIPE DETAIL (TYP)
SCALE: NTS



A9 TOE DRAIN STANDPIPE CAP (TYP)
SCALE: NTS

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: F. PRITT	ISSUE DATE: MARCH 2026
DRAWN BY: F. PRITT	SOLICITATION NO.: SEE COVER SHEET
CHECKED BY: P. O'CONNELL	CONTRACT NO.:
SUBMITTED BY:	FILE NO.:
SIZE: ANSI D	FILE NAME: UTC_CG502.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

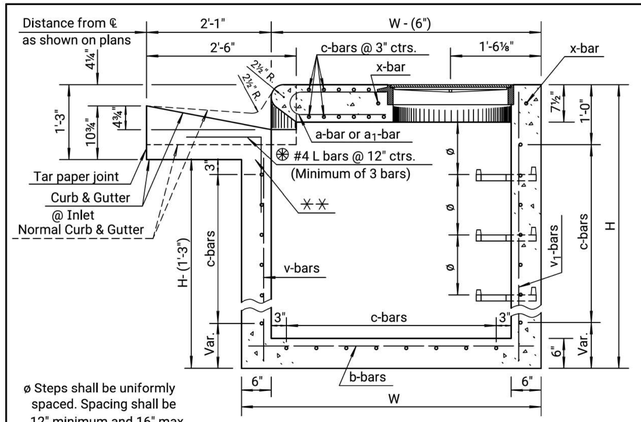
MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

STORM TYPICAL DETAILS

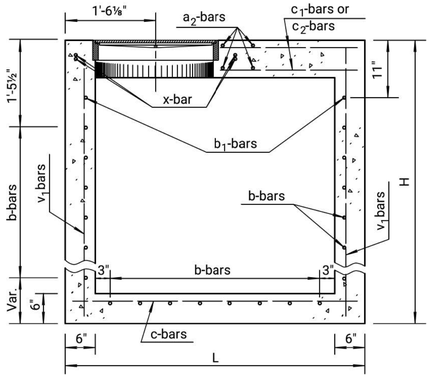
SHEET ID
CG502

pw:\\PWINT-NPC.EIS.DG.USACE.ARMY.MIL:CENWK - Kansas City District\Documents\CW\TurkeyCr\505229_Upper_Turkey_Creek\6.0 Engineering-Design\6.1 Drawings\CAD_BIM\

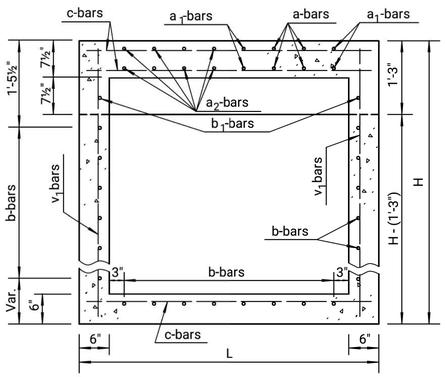
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	0	0	0	0



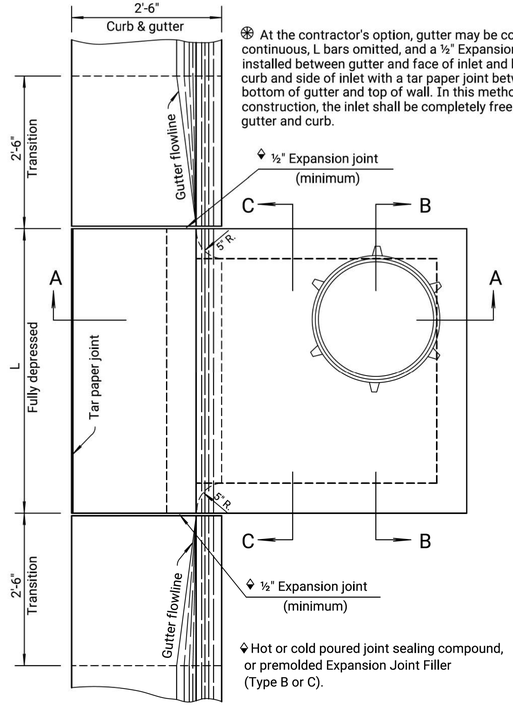
SECTION A-A



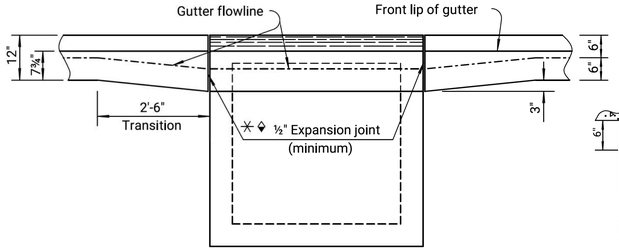
SECTION B-B



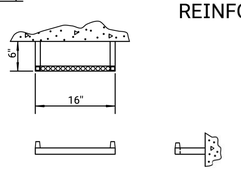
SECTION C-C



PLAN

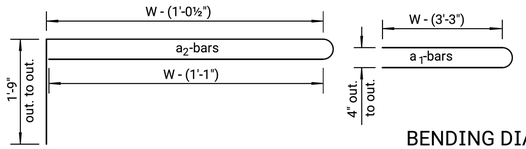


ELEVATION

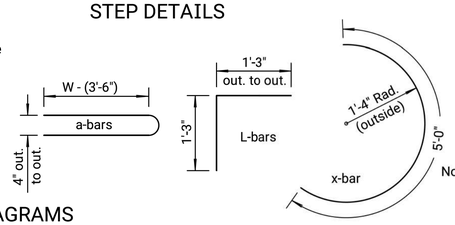


STEP DETAILS

Note: Transition gutter from normal depth of 6" to 9" at inlet in 2'-6". Curb and Gutter sections shall be shaped as shown where required by the installation of curb inlets. This work will be subsidiary to other bid items.



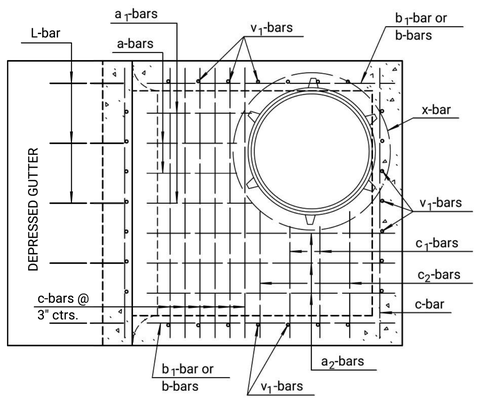
BENDING DIAGRAMS



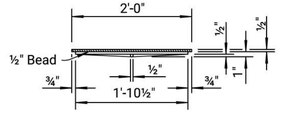
Note: Reinforcing steel for L bars is not included in the steel quantity and is subsidiary to the other inlet items.

GENERAL NOTES

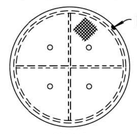
Use Concrete Grade 3.0 throughout. All exposed edges shall be finished with an edging tool.
At the contractors option Concrete Grade 3.0 (AE) or mix used in concrete pavement may be used throughout.
In general, pipes will enter and leave manhole at various positions. Where possible bend bars around pipes.
Floor of manhole to be shaped as shown in various "EXAMPLES" with unreinforced Concrete Grade 3.0.
Manhole opening and steps, where used, shall be placed to afford easy access to top of shaped invert. Top reinforcing bars to be adjusted accordingly.
All castings shall be gray iron and shall comply with the KDOT Standard Specifications.
When so ordered by the Engineer, the top of the manhole shall be sloped slightly to approximately fit the ground line or other conditions.
Dimensions and weights of cast iron as shown on this sheet are minimum. Larger dimensions and/or heavier weights of cast iron may be used.
Steps shall be installed in all storm sewer inlets when specified in the plans or when "H" is equal to or greater than six feet. Steps shall comply with the KDOT Standard Specification.
No reduction in concrete quantities shall be made for pipe openings.
When directed by the Engineer, a small opening in the back of the inlet shall be provided in order to drain a low area. Reinforcing bars shall extend through the opening. No reduction in concrete quantities will be made for this opening.
No addition in concrete quantities shall be made for shaping floor of inlet.
No reduction in pay length of curb, gutter, or curb & gutter will be made through the inlet area.
The weight of castings includes no allowance for fillets and overruns.
Curb and Gutter sections shall be shaped as shown where required by the installation of curb inlets. This work shall be subsidiary to other bid items.
See sheet entitled "Reinforcing Steel for Inlets and Manholes" for details and quantities.
For additional notes and details on Light Type Cast Iron Manhole Cover and Ring Type C and Cast Iron Steps, see Standard Drawing RD633 "Reinforced Concrete Manhole".
All reinforcing steel shall be #4 at 6" centers except where noted. Minimum clear distance to reinforcement shall be 1½".

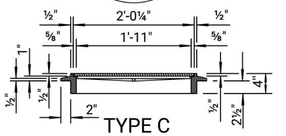


REINFORCING STEEL TOP VIEW

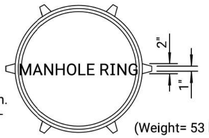


MANHOLE COVER TYPE C
(Weight= 64 lbs.)





TYPE C



(Weight= 53 lbs.)

NOTE: All manhole castings are cast iron. Weight of castings includes no allowance for fillets and overruns.

* LIGHT TYPE
MANHOLE COVER & RING
* Rings with four equally spaced lugs will be permitted.

NO.	DATE	REVISIONS	BY	APP'D
07	10-31-17	Joint Filler Type C Added	A.L.R.	S.W.K.
06	01-28-05	Changed Class to Grade concrete	S.W.K.	J.O.B.
05	12-11-97	Revised step spacing	R.J.S.	J.O.B.

KANSAS DEPARTMENT OF TRANSPORTATION

TYPE 22
CURB INLET

RD646

FHWA APPROVAL	03-05-18	APP'D.	Scott W. King
DESIGNED	DETAILED	QUANTITIES	TRACED
DESIGN CK.	DETAIL CK.	QUAN.CK.	TRACE CK.

KDOT Graphics Certified 08-19-2024 Sh. No. 0

KDOT Graphics Certified

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: F. PRITT
DRAWN BY: F. PRITT
CHECKED BY: P. O'CONNELL
SUBMITTED BY:
SIZE: ANSI D
ISSUE DATE: MARCH 2026
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.:
FILE NO.:
FILE NAME: UTC_CG503.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

FOR INFORMATION ONLY
KDOT TYPE "22" CURB INLET

SHEET ID
CG503

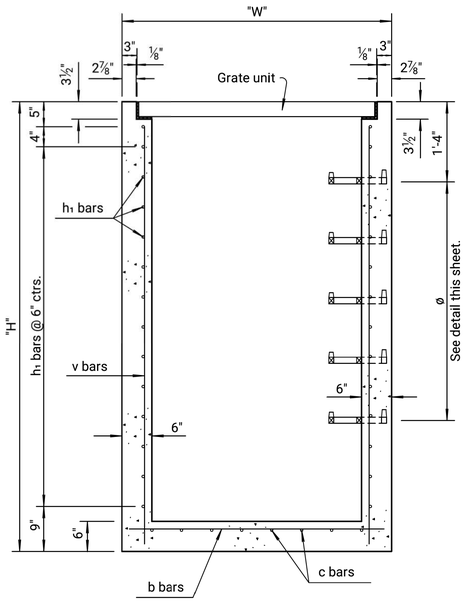
Plotted by: Amy.Rockers@ks.gov 19-AUG-2024 21:24
File : rd646.dgn

pw:\\PWINT-NPC.EIS.DG.USACE.ARMY.MIL:CENWK - Kansas City District\Documents\CW\TurkeyCr\505229_Upper_Turkey_Creek\6.0 Engineering-Design\6.1 Drawings\CAD_BIM\Turkey_Creek\6.0 Engineering-Design\6.1 Drawings\CAD_BIM\

UTC_CG503.dgn
10:49:13 AM 3/26/2026 PD: DS:

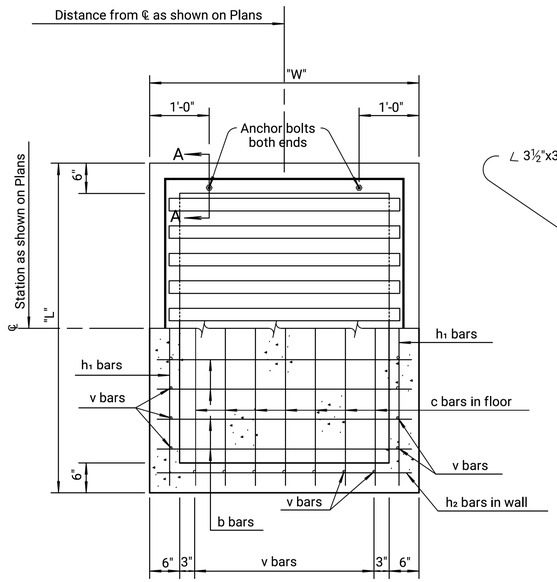
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		0	0	

Note to Designer: For dimensions in any direction larger than those listed on this sheet, a structural design of both the inlet and grate should be performed.

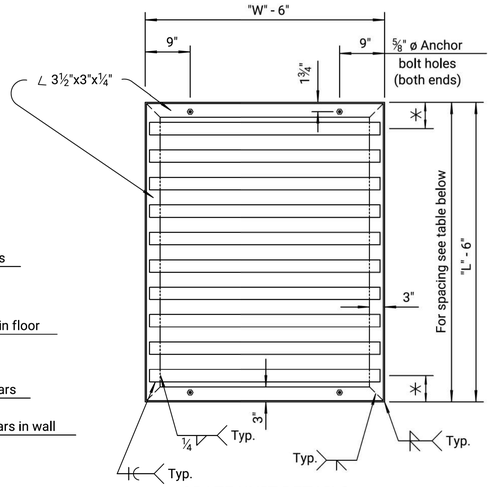


SECTION

ø Steps shall be uniformly spaced. Spacing shall be 12" minimum and 16½" maximum.



PLAN AND SECTION



GRATE UNIT DETAILS

GENERAL NOTE

Use Concrete Grade 3.0 throughout. All exposed edges shall be finished with an edging tool.

At the contractors option, Concrete Grade 3.0 (AE) or mix used in concrete pavement may be used throughout.

In general, pipes will enter and leave the manhole at various positions. Where possible bend bars around pipes.

Floor of inlet shall be shaped as shown in various "Examples" on Reinforced Concrete Manhole Standard Drawing RD633. Concrete used for shaping shall be unreinforced Concrete Grade 3.0 or concrete pavement mix. No addition in concrete quantities shall be made for shaping floor of inlets.

Manhole steps, where used, shall be placed to afford easy access to top of shaped invert.

No deductions in concrete quantities shall be made for pipe openings.

All bars are #4 @ 6" spacing and shall have a minimum clearance of 1½" unless otherwise noted on the plans.

The top of the manhole shall be sloped slightly to approximately fit the ground line or other conditions as directed by the Engineer.

Steps shall be installed on all storm sewer inlets when specified in the plans or when "H" is equal to or greater than six feet. Steps shall comply with the KDOT Standard Specification.

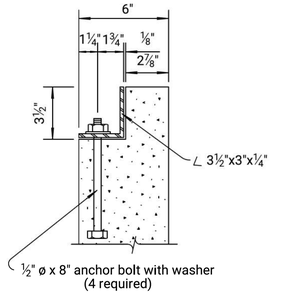
The grate shall be fabricated from standard or commercial grade structural steel and black steel pipe. The unit shall be hot dipped, galvanized after fabrication, in accordance with ASTM A123 except the weight of coating shall average not less than 2.0 ounces per square foot of actual surface and no individual test shall show less than 1.8 ounces of coating per square foot of actual surface area.

BILL OF MATERIALS FOR INLET-MANHOLE (SPECIAL)

"L" "W" "H" 4'-6" x 4'-6" x 3'-6"				"L" "W" "H" 7'-6" x 4'-6" x 7'-6"															
Bar	No.	Size	Length	Bar	No.	Size	Length	Bar	No.	Size	Length	Bar	No.	Size	Length	Bar	No.	Size	Length	Bar	No.	Size	Length
v	28	#4	3'-0"	v	40	#4	7'-0"	v		#4		v		#4		v		#4		v		#4	
c	7	#4	4'-3"	c	7	#4	7'-3"	c		#4		c		#4		c		#4		c		#4	
b	7	#4	4'-3"	b	13	#4	4'-3"	b		#4		b		#4		b		#4		b		#4	
h_1	12	#4	4'-3"	h_1	28	#4	7'-3"	h_1		#4		h_1		#4		h_1		#4		h_1		#4	
h_2	12	#4	4'-3"	h_2	28	#4	4'-3"	h_2		#4		h_2		#4		h_2		#4		h_2		#4	
Conc. Grade 3.0		1.23	Cu.Yd.	Conc. Grade 3.0		3.42	Cu.Yd.	Conc. Grade 3.0			Cu.Yd.	Conc. Grade 3.0			Cu.Yd.	Conc. Grade 3.0			Cu.Yd.	Conc. Grade 3.0			Cu.Yd.
Reinf. steel		164	Lbs.	Reinf. steel		473	Lbs.	Reinf. steel			Lbs.	Reinf. steel			Lbs.	Reinf. steel			Lbs.	Reinf. steel			Lbs.
Struct. steel		260	Lbs.	Struct. steel		430	Lbs.	Struct. steel			Lbs.	Struct. steel			Lbs.	Struct. steel			Lbs.	Struct. steel			Lbs.
Class III Excav.		5	Cu.Yd.	Class III Excav.		17	Cu.Yd.	Class III Excav.			Cu.Yd.	Class III Excav.			Cu.Yd.	Class III Excav.			Cu.Yd.	Class III Excav.			Cu.Yd.

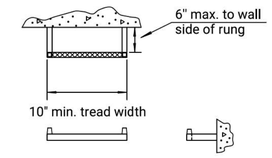
BILL OF MATERIALS FOR INLET-MANHOLE (SPECIAL)

"L" "W" "H" 4'-6" x 4'-6" x 6'-0"				"L" "W" "H" 5'-6" x 4'-6" x 7'-6"				"L" "W" "H" 4'-0" x 4'-0" x 4'-6"				"L" "W" "H" 4'-6" x 4'-6" x 4'-0"				"L" "W" "H" 4'-6" x 4'-6" x 4'-6"				"L" "W" "H" 5'-6" x 4'-6" x 5'-0"			
Bar	No.	Size	Length	Bar	No.	Size	Length	Bar	No.	Size	Length	Bar	No.	Size	Length	Bar	No.	Size	Length	Bar	No.	Size	Length
v	28	#4	5'-6"	v	32	#4	7'-0"	v	24	#4	4'-0"	v	28	#4	3'-6"	v	28	#4	4'-0"	v	32	#4	4'-6"
c	7	#4	4'-3"	c	7	#4	5'-3"	c	6	#4	3'-9"	c	7	#4	4'-3"	c	7	#4	4'-3"	c	7	#4	5'-3"
b	7	#4	4'-3"	b	9	#4	4'-3"	b	6	#4	3'-9"	b	7	#4	4'-3"	b	7	#4	4'-3"	b	9	#4	4'-3"
h_1	22	#4	4'-3"	h_1	28	#4	5'-3"	h_1	16	#4	3'-9"	h_1	14	#4	4'-3"	h_1	16	#4	4'-3"	h_1	18	#4	5'-3"
h_2	22	#4	4'-3"	h_2	28	#4	4'-3"	h_2	16	#4	3'-9"	h_2	14	#4	4'-3"	h_2	16	#4	4'-3"	h_2	18	#4	4'-3"
Conc. Grade 3.0		1.95	Cu.Yd.	Conc. Grade 3.0		2.75	Cu.Yd.	Conc. Grade 3.0		1.30	Cu.Yd.	Conc. Grade 3.0		1.37	Cu.Yd.	Conc. Grade 3.0		1.52	Cu.Yd.	Conc. Grade 3.0		1.91	Cu.Yd.
Reinf. steel		268	Lbs.	Reinf. steel		377	Lbs.	Reinf. steel		174	Lbs.	Reinf. steel		185	Lbs.	Reinf. steel		205	Lbs.	Reinf. steel		261	Lbs.
Struct. steel		260	Lbs.	Struct. steel		315	Lbs.	Struct. steel		206	Lbs.	Struct. steel		260	Lbs.	Struct. steel		260	Lbs.	Struct. steel		315	Lbs.
Class III Excav.		9	Cu.Yd.	Class III Excav.		14	Cu.Yd.	Class III Excav.		6	Cu.Yd.	Class III Excav.		6	Cu.Yd.	Class III Excav.		7	Cu.Yd.	Class III Excav.		9	Cu.Yd.



SECTION A-A

Note: Anchor bolts are subsidiary to the bid item "Inlet-Manhole, Special".



STEP DETAILS

PIPE DIMENSIONS AND SPACING

L x W	No. of Bars	Dia. x Length x Spacing	⚹
7'-6"x4'-6"	13	2½"ø x 3'-10¼" pipes @ 6" ctrs.	6"
5'-6"x4'-6"	10	2½"ø x 3'-10¼" pipes @ 5½" ctrs.	5¼"
4'-6"x4'-6"	8	2½"ø x 3'-10¼" pipes @ 5½" ctrs.	4¾"
4'-0"x4'-0"	7	2½"ø x 3'- 4¼" pipes @ 5½" ctrs.	4½"

NO.	DATE	REVISIONS	BY	APP'D
11	07-17-17	Revised step dimensions	A.L.R.	S.W.K.
10	06-13-12	Revised Concrete Quantity	S.W.K.	J.O.B.
09	01-28-05	Chaned Class to Grade Concrete	S.W.K.	J.O.B.

KANSAS DEPARTMENT OF TRANSPORTATION

INLET - MANHOLE, SPECIAL

RD648

FHWA APPROVAL	08-09-17	APP'D	Scott W. King
DESIGNED	DETAILED	QUANTITIES	TRACED
DESIGN CK.	DETAIL CK.	QUAN.CK.	TRACE CK.

KDOT Graphics Certified 05-16-2022 Sh. No. 0

KDOT Graphics Certified

US Army Corps of Engineers®

DESIGNED BY:	F. PRITT
DRAWN BY:	F. PRITT
CHECKED BY:	P. O'CONNELL
SUBMITTED BY:	
DATE:	
SIZE:	ANSI D

ISSUE DATE: MARCH 2026
SOLICITATION NO.:
SEE COVER SHEET
CONTRACT NO.:
FILE NO.:
FILE NAME: UTC_CG504.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

FOR INFORMATION ONLY
KDOT TYPE "SPECIAL" AREA INLET

SHEET ID
CG504

Plotted by: KDOT#CADD.Support_ks.gov 18-JUN-2022 00:40
File : rd648.dgn

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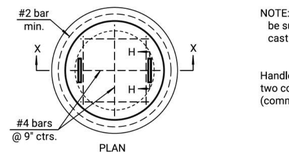
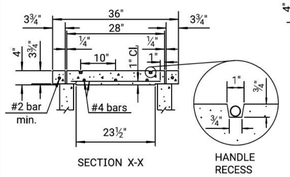


PLAN

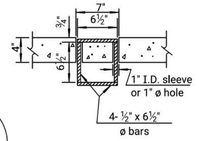
NOTE: Precast ring and cover may be substituted for light type cast iron ring and cover.

Handles shall be painted with two coats of zinc rich paint (commercial grade).



SECTION X-X

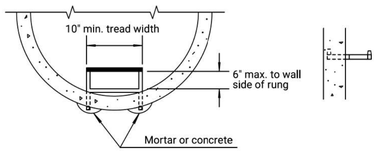
HANDLE RECESS



SECTION H-H

WELDED HANDLES (2 required)

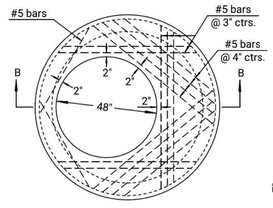
PRECAST RING AND COVER (LIGHT TYPE) (Optional)



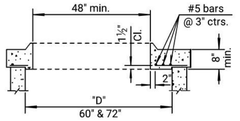
SECTION

SIDE VIEW

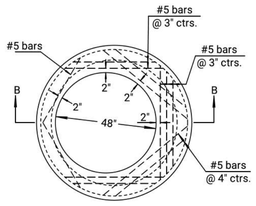
STEP IN MANHOLE WALL



PLAN (D=72")



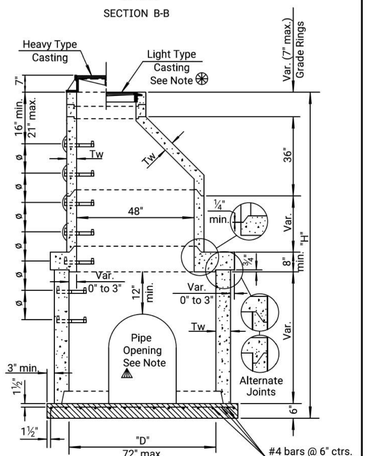
SECTION B-B



PLAN (D=60")

TYPICAL REINFORCING FOR REDUCING FLAT SLABS

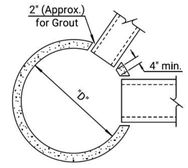
NOTE: Eccentric pipe decreasers may be used for transition of manhole diameter when "H" is sufficiently large.



TYPE II ALTERNATE (OPTIONAL) (SECTION)

May be used when "H" is sufficiently large.

DIMENSIONS & REQUIREMENTS			
Type	"D"	Tw(min.)	⧫
I or II	48"	≠ 4"	24"
II	60"	5"	30"
II	72"	6"	48"



SKETCH SHOWING MIN. WALL BETWEEN PIPES

LEGEND (Concrete)

Precast

Cast in field

ø Steps shall be uniformly spaced. Spacing shall be 12 minimum and 16½" maximum.

≠ 5" Tw (min.) for portion of sanitary sewer manhole below 16 feet.

⧫ Maximum sewer pipe allowed for "D" shown. Increase "D" to provide 4 inch minimum wall between pipes. (see sketch)

(NOTE) Type II manhole required:
1. When distance from top of manhole to top of sewer pipe is less than 42 inches.
2. For sewer pipes greater than 24 inches.
3. To provide 4" min. wall between pipes. (see sketch)

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		0	0	

GENERAL NOTES

Precast risers, cones, flat top slabs, reducing flat slabs, floors, grade rings, and rings and covers shall be manufactured according to the most recent ASTM C-478 Specifications and special provisions with specific details as shown on this sheet. Cone section shall be the eccentric type.

All manhole construction shall be water tight. All joints shall be filled with mortar or plastic joint compound as specified in the Standard Specifications. No payment will be made for this work.

When so ordered by the Engineer the top of the manhole shall be sloped slightly to approximately fit the ground line or other conditions.

Grade rings shall be formed with tongue and groove or lugs and notches. Grade rings shall be set in mortar.

When field conditions require "H" to be adjusted additional grade rings may be used as directed by the Engineer.

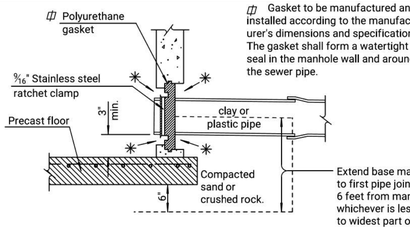
Contractor shall determine pipe locations in the field prior to ordering manholes, to insure proper positioning of pipe openings.

All dimensions relative to reinforcing steel are to center of bars unless otherwise noted.

Floor of manhole to be shaped as shown on Standard Drawing RD633. No additions in concrete quantities shall be made for shaping floor of manholes.

Steps shall be installed in all storm sewer manholes when specified in the plans or when "H" is equal to or greater than six feet. Steps shall comply with the requirements of the KDOT Standard Specification.

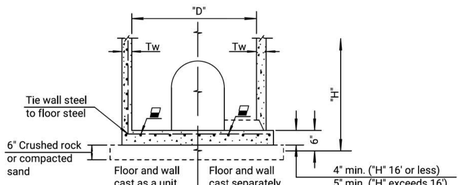
For notes and details on Cast Iron Manhole Covers and Rings see Standard Drawing RD633.



Gasket to be manufactured and installed according to the manufacturer's dimensions and specifications. The gasket shall form a watertight seal in the manhole wall and around the sewer pipe.

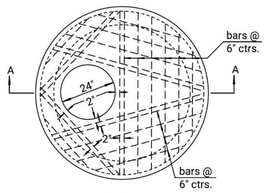
MANHOLE WITH POLYURETHANE GASKET (OPTIONAL)

✳ Fill opening in manhole wall, around Sewer Pipe, with grout or concrete. (to prevent pipe movement)



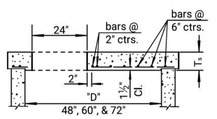
PRECAST FLOOR

Floor reinforcing shall be double the reinforcing required for wall or #4 bars @ 6" ctrs. each way.



PLAN

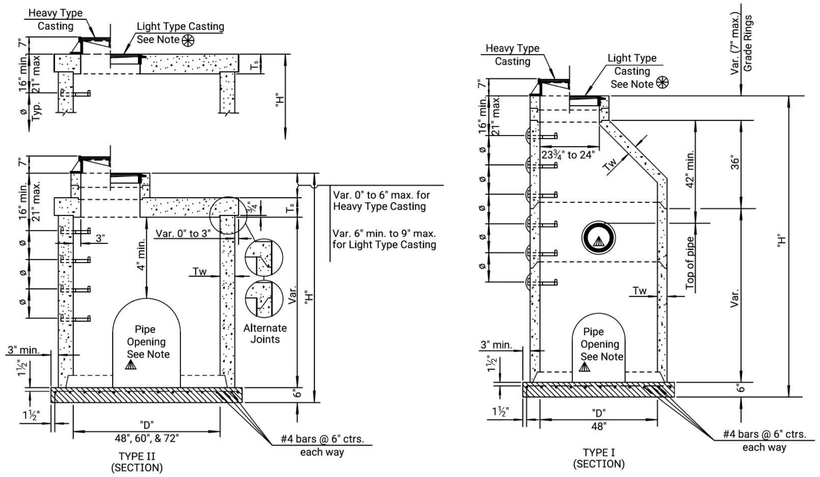
TYPICAL REINFORCING FOR FLAT TOP SLABS



SECTION A-A

SLAB & BAR TABLE		
"D"	Tx(min.)	Bar size
48"	6"	#4
60"	6"	#4
72"	8"	#5

NOTE: Welded wire mesh of equivalent cross-sectional area may be substituted for bars @ 6" ctrs. (4 layers max.). Bars @ 2" ctrs. around opening to be as shown.



TYPE II (SECTION)

Openings for sewer pipes to be as follows:
Formed Openings: A one inch keyway shall be formed around the pipe opening.
Roughed In Openings: Reinforcing shall be left in place around the sewer pipe to reinforce the grout. Concrete shall be left rough to provide bond for grout.

TYPE I (SECTION)

NOTE: Light type cast iron ring shall be set in flat top slab or grade ring as shown. This grade ring may be precast or cast in the field. Reinforcing for grade ring cast in the field shall be a #2 circular bar (min.).

NO.	DATE	REVISIONS	BY	APP'D
07	07-17-17	Revised step dimension	A.L.R.	S.W.K.
06	12-11-97	Revised step spacing	R.J.S.	J.O.B.
05	10-23-92	Revised step & detailed on CADD	R.J.S.	J.O.B.

KANSAS DEPARTMENT OF TRANSPORTATION

PRECAST MANHOLES

RD629

FHWA APPROVAL	08-09-17	APP'D	Scott W. King
DESIGNED	DETAILED	QUANTITIES	TRACED
DESIGN CK.	DETAIL CK.	QUAN.CK.	TRACE CK.

KDOT Graphics Certified 05-13-2022 Sh. No. 0

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P. O'CONNELL	
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FOR INFORMATION ONLY
KDOT TYPE II" MANHOLE

SHEET ID
CG505

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File : rd629.dgn

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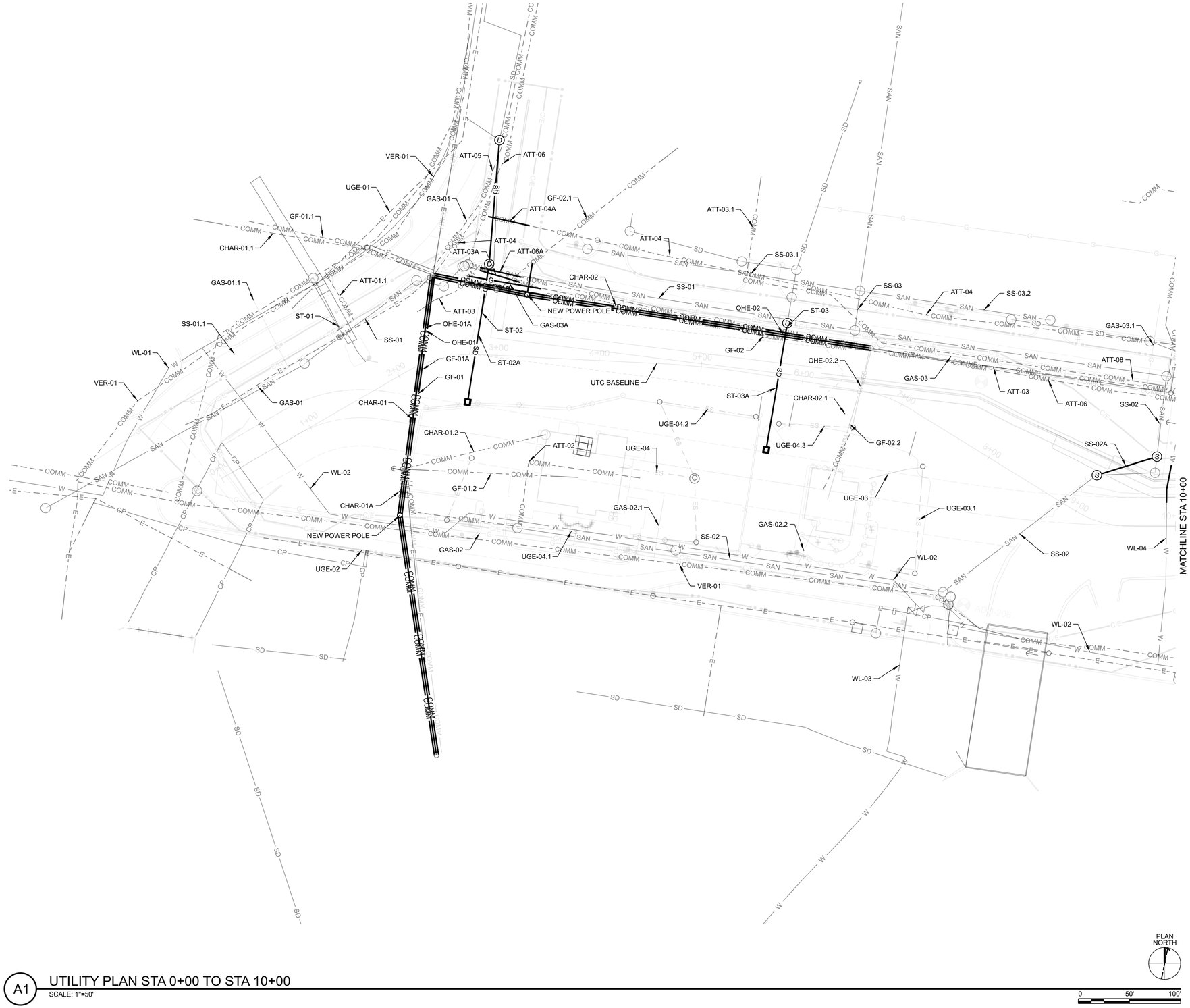
GENERAL SHEET NOTES

1. SEE CG400 SERIES SHEETS FOR STORM DETAILS.
2. SEE CU600 SERIES SHEETS FOR TABULAR UTILITY DATA.

LEGEND

SAN — SAN	SANITARY LINE
SD — SD	STORM LINE
W — W	WATER LINE
G — G	GAS LINE
E — E	OVERHEAD ELECTRIC LINE
E — E — E	UNDERGROUND ELECTRIC LINE
COMM — COMM — COMM	UNDERGROUND COMMUNICATION LINE



A1 UTILITY PLAN STA 0+00 TO STA 10+00
SCALE: 1"=50'

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UTILITY PLAN
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LEGEND

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SD — SD	STORM LINE
W — W	WATER LINE
G — G	GAS LINE
E — E	OVERHEAD ELECTRIC LINE
E — E — E	UNDERGROUND ELECTRIC LINE
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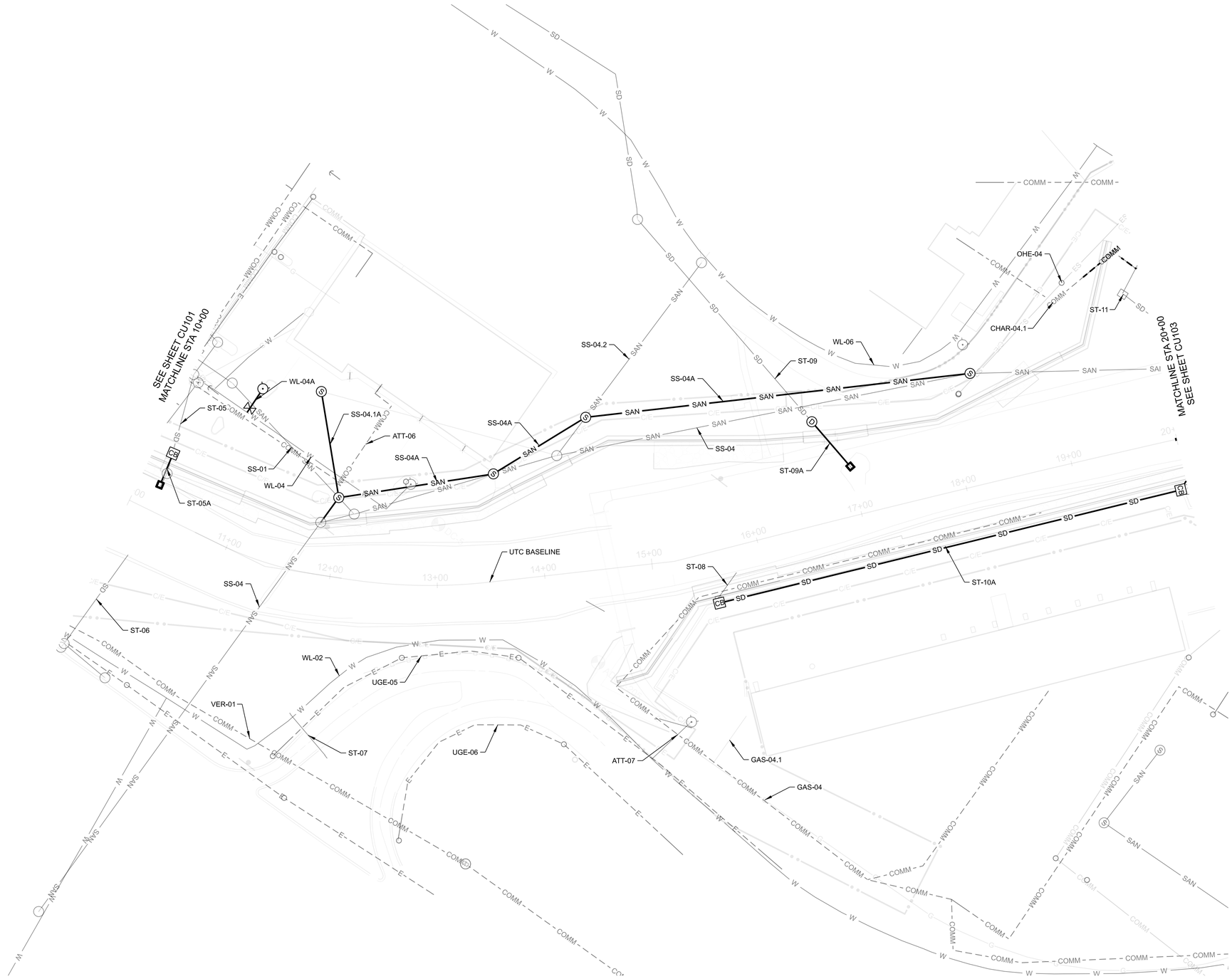

A1 UTILITY PLAN STA 10+00 TO STA 20+00
SCALE: 1"=50'

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UTILITY PLAN
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GENERAL SHEET NOTES

1. SEE CG400 SERIES SHEETS FOR STORM DETAILS.
2. SEE CU600 SERIES SHEETS FOR TABULAR UTILITY DATA.

LEGEND

SAN	SANITARY LINE
SD	STORM LINE
W	WATER LINE
G	GAS LINE
E	OVERHEAD ELECTRIC LINE
E	UNDERGROUND ELECTRIC LINE
COMM	UNDERGROUND COMMUNICATION LINE

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UTILITY PLAN
STA 20+00 TO STA 30+00

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A1 UTILITY PLAN STA 20+00 TO STA 30+00
SCALE: 1"=50'

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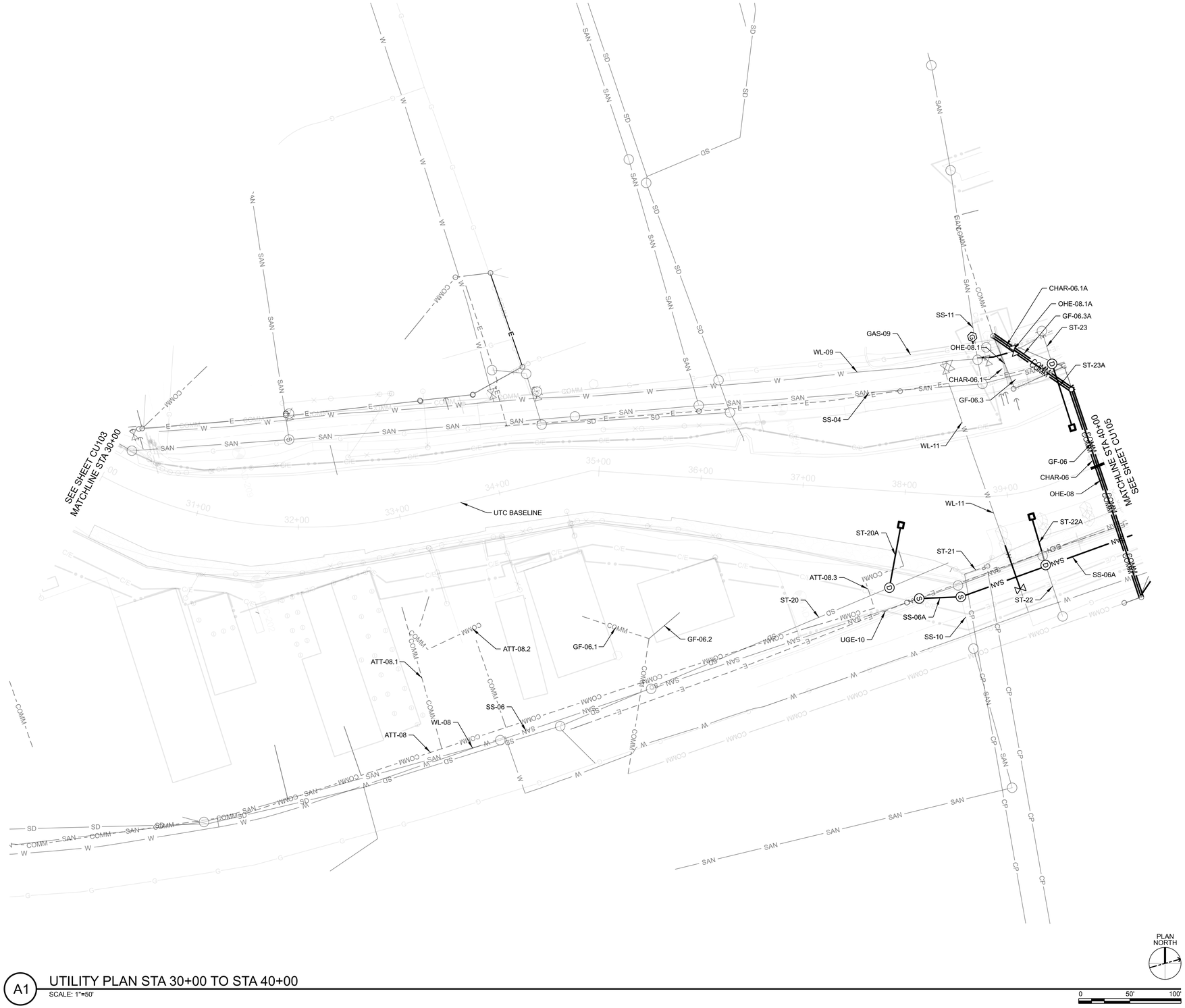

GENERAL SHEET NOTES

1. SEE CG400 SERIES SHEETS FOR STORM DETAILS.
2. SEE CU600 SERIES SHEETS FOR TABULAR UTILITY DATA.
3. SEE STRUCTURAL SHEETS FOR ST-21 DETAILS.

LEGEND

SAN — SAN	SANITARY LINE
SD — SD	STORM LINE
W — W	WATER LINE
G — G	GAS LINE
E — E	OVERHEAD ELECTRIC LINE
E — E — E	UNDERGROUND ELECTRIC LINE
COMM — COMM	UNDERGROUND COMMUNICATION LINE

A1 UTILITY PLAN STA 30+00 TO STA 40+00
SCALE: 1"=50'

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2. SEE CU600 SERIES SHEETS FOR TABULAR UTILITY DATA.

LEGEND

SAN — SAN	SANITARY LINE
SD — SD	STORM LINE
W — W	WATER LINE
G — G	GAS LINE
E — E	OVERHEAD ELECTRIC LINE
E — E — E	UNDERGROUND ELECTRIC LINE
COMM — COMM	UNDERGROUND COMMUNICATION LINE

PLAN NORTH

0 50' 100'

A1 UTILITY PLAN STA 40+00 TO STA 50+00
SCALE: 1"=50'

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UTILITY PLAN
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2. SEE CU600 SERIES SHEETS FOR TABULAR UTILITY DATA.

LEGEND

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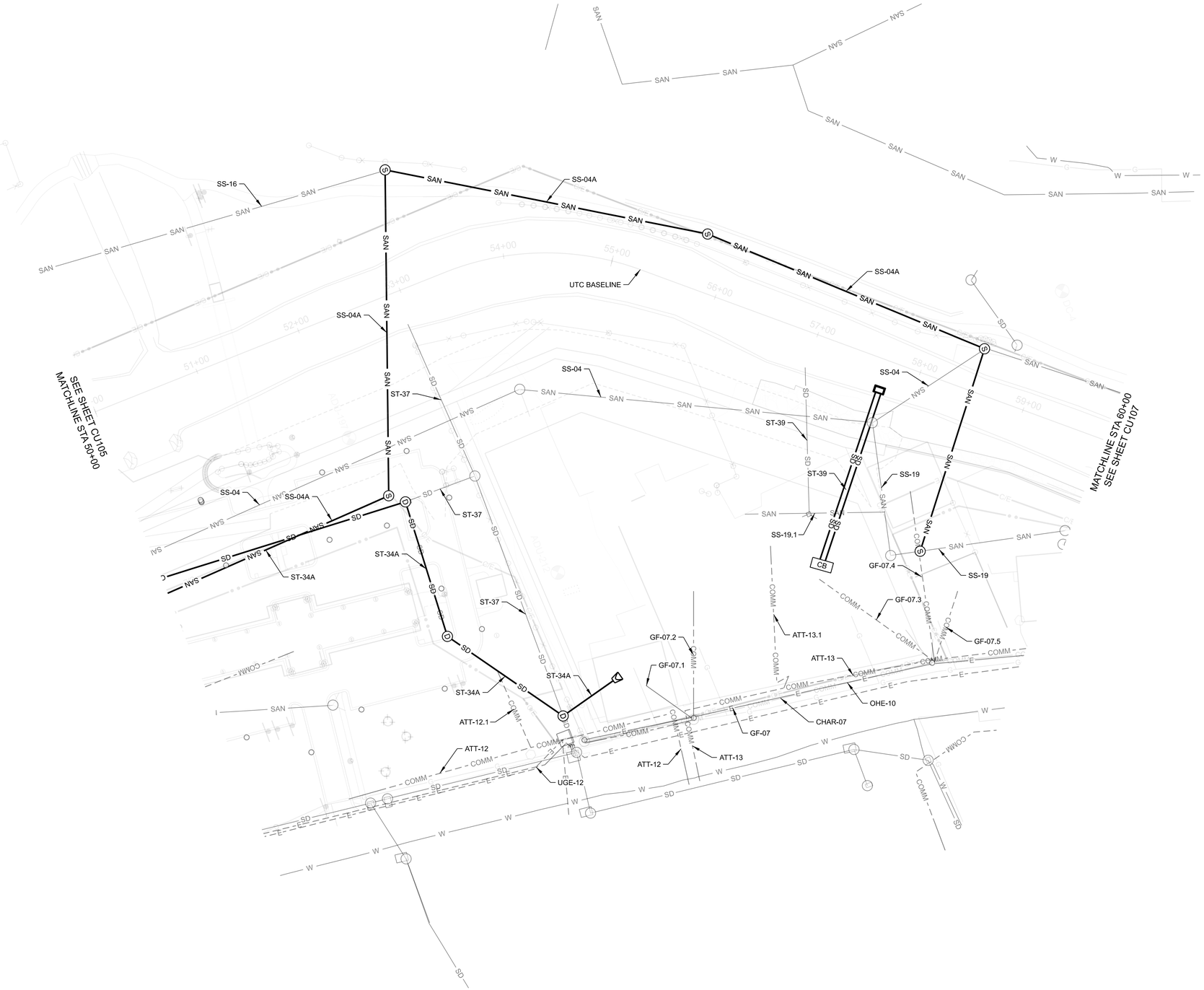
SD — SD	STORM LINE
W — W	WATER LINE
G — G	GAS LINE
E — E	OVERHEAD ELECTRIC LINE
E — E — E	UNDERGROUND ELECTRIC LINE
COMM — COMM	UNDERGROUND COMMUNICATION LINE



A1 UTILTY PLAN STA 50+00 TO STA 60+00
SCALE: 1"=50'

PLAN NORTH

0 50' 100'

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UTILITY PLAN
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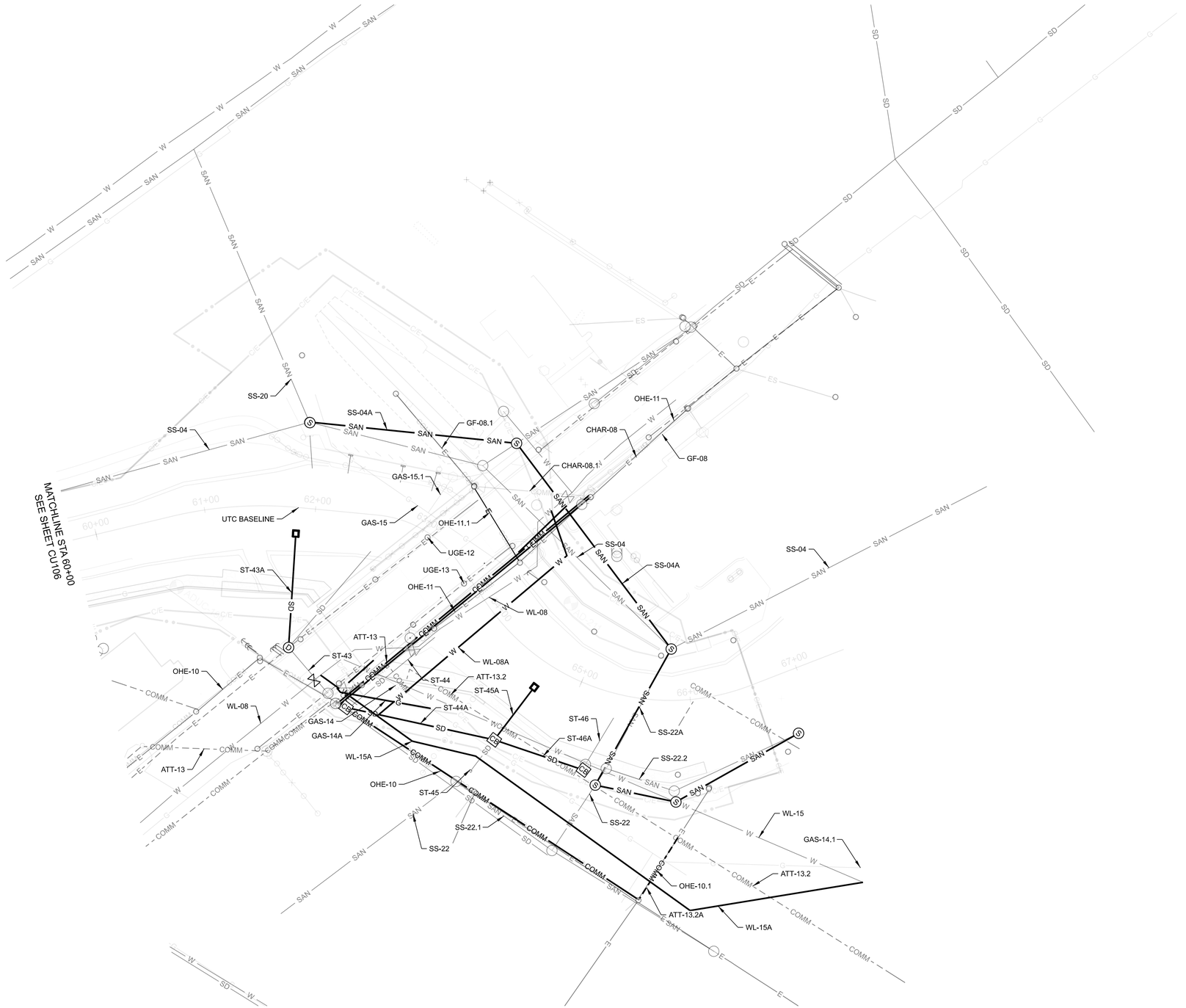

GENERAL SHEET NOTES

1. SEE CG400 SERIES SHEETS FOR STORM DETAILS.
2. SEE CU600 SERIES SHEETS FOR TABULAR UTILITY DATA.

LEGEND

SAN SAN	SANITARY LINE
SD SD	STORM LINE
W W	WATER LINE
G G	GAS LINE
E E	OVERHEAD ELECTRIC LINE
E E	UNDERGROUND ELECTRIC LINE
COMM COMM	UNDERGROUND COMMUNICATION LINE

PLAN NORTH

0 50' 100'

A1 UTILITY PLAN STA 60+00 TO END
SCALE: 1"=50'

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UTILITY PLAN
STA 60+00 TO END

SHEET ID
CU107

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UTILITY INFORMATION TABLE - STATION 0+00 TO 10+00

ID	UTILITY	OWNER	UTC BASELINE STATION CROSSING OF LEVEE/FLOODWALL	SIZE (IN)	MATERIAL	DEPTH / ELEVATION	SUE QUALITY LEVEL	IN CONFLICT WITH	ACTION	RESOLUTION	CONSTRUCTION	BEFORE / DURING PROJECT
ATT-01	COMMUNICATION	AT&T	NONE	UNKNOWN	COPPER	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GAS-01	GAS	KANSAS GAS SERVICE	NONE	2	APCS	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GAS-02	GAS	KANSAS GAS SERVICE	NONE	2	APCS	UNKNOWN	D	TRIBUTARY REALIGNMENT	ABANDON	-	IN CONTRACT	DURING
UGE-01	ELECTRIC	EVERGY	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
WL-01	WATER	WATERONE	NONE	6	CAS/DIP	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
UGE-02	ELECTRIC	CITY OF MERRIAM	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
SS-01	SANITARY	JOCO WASTEWATER	2+99.65	24	VCP/PVC	9'-12' / 919-927	D	WALL (LB)	RECONNECT	-	IN CONTRACT	DURING
WL-02	WATER	WATERONE	NONE	8	CAS/DIP	UNKNOWN	D	TRIBUTARY REALIGNMENT	LEAVE IN PLACE	-	N/A	N/A
CHAR-01	COMMUNICATION	CHARTER	1+59.49	UNKNOWN	UNKNOWN	UNKNOWN	D	TRIBUTARY REALIGNMENT	RELOCATE	CHAR-01A	BY OTHERS	BEFORE
OHE-01	ELECTRIC	EVERGY	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	TRIBUTARY REALIGNMENT	RELOCATE	OHE-01A	BY OTHERS	BEFORE
GF-01	COMMUNICATION	GOOGLE FIBER	1+59.49	UNKNOWN	UNKNOWN	UNKNOWN	D	TRIBUTARY REALIGNMENT	RELOCATE	GF-01A	BY OTHERS	BEFORE
VER-01	COMMUNICATION	VERIZON	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	TRIBUTARY REALIGNMENT	LEAVE IN PLACE	-	N/A	N/A
CHAR-01.1	COMMUNICATION	CHARTER	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GAS-01.1	GAS	KANSAS GAS SERVICE	NONE	1	PE	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
UGE-03	ELECTRIC	CITY OF MERRIAM	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GF-01.1	COMMUNICATION	GOOGLE FIBER	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
CHAR-01.2	COMMUNICATION	CHARTER	1+58.91	UNKNOWN	UNKNOWN	UNKNOWN	D	TRIBUTARY REALIGNMENT	REMOVE	-	IN CONTRACT	DURING
GF-01.2	COMMUNICATION	GOOGLE FIBER	1+58.91	UNKNOWN	UNKNOWN	UNKNOWN	D	TRIBUTARY REALIGNMENT	REMOVE	-	IN CONTRACT	DURING
ATT-02	COMMUNICATION	AT&T	1+59.37	UNKNOWN	UNKNOWN	UNKNOWN	D	TRIBUTARY REALIGNMENT	REMOVE	-	IN CONTRACT	DURING
ATT-01.1	COMMUNICATION	AT&T	NONE	UNKNOWN	COPPER	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
UGE-04.1	ELECTRIC	PRIVATE	1+70.33	UNKNOWN	UNKNOWN	UNKNOWN	D	TRIBUTARY REALIGNMENT	REMOVE	-	IN CONTRACT	DURING
ATT-05	COMMUNICATION	AT&T	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
OHE-02.1	ELECTRIC	EVERGY	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
ATT-03	COMMUNICATION	AT&T	2+99.27	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (LB)	RELOCATE	ATT-03A UP AND OVER	BY OTHERS	DURING
GF-02	COMMUNICATION	GOOGLE FIBER	2+99.27	UNKNOWN	UNKNOWN	UNKNOWN	D	LEVEE (LB)	RELOCATE	GF-02A	BY OTHERS	BEFORE
OHE-02.2	ELECTRIC	EVERGY	6+56.96	UNKNOWN	UNKNOWN	UNKNOWN	D	TRIBUTARY REALIGNMENT	REMOVE	-	IN CONTRACT	DURING
CHAR-02	COMMUNICATION	CHARTER	2+99.27	UNKNOWN	UNKNOWN	UNKNOWN	D	LEVEE (LB)	RELOCATE	CHAR-02A	BY OTHERS	BEFORE
ATT-04	COMMUNICATION	AT&T	3+05.03	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (LB)	RELOCATE	ATT-04A UP AND OVER	BY OTHERS	DURING
GAS-03	GAS	KANSAS GAS SERVICE	3+03.68	1	PE	UNKNOWN	D	LEVEE (LB)	RELOCATE	GAS-03A UP AND OVER	BY OTHERS	DURING
OHE-02	ELECTRIC	EVERGY	3+02.84	UNKNOWN	UNKNOWN	UNKNOWN	D	LEVEE (LB)	RELOCATE	OHE-02A	BY OTHERS	BEFORE
ATT-06	COMMUNICATION	AT&T	3+00.00	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (LB)	RELOCATE	ATT-06A UP AND OVER	BY OTHERS	DURING
GF-02.1	COMMUNICATION	GOOGLE FIBER	2+96.32	UNKNOWN	UNKNOWN	UNKNOWN	D	LEVEE (LB)	RELOCATE	GF-02.1A	BY OTHERS	BEFORE
SS-03.1	SANITARY	JOCO WASTEWATER	NONE	8	VCP	7'-10' / 925-928	D	NONE	LEAVE IN PLACE	-	N/A	N/A
UGE-04	ELECTRIC	PRIVATE	CHANNEL	UNKNOWN	UNKNOWN	UNKNOWN	D	TRIBUTARY REALIGNMENT	REMOVE	-	IN CONTRACT	DURING
GAS-02.1	GAS	KANSAS GAS SERVICE	4+65.06	1	PE	UNKNOWN	D	TRIBUTARY REALIGNMENT	REMOVE	-	IN CONTRACT	DURING
UGE-04.2	ELECTRIC	PRIVATE	CHANNEL	UNKNOWN	UNKNOWN	UNKNOWN	D	TRIBUTARY REALIGNMENT	REMOVE	-	IN CONTRACT	DURING
ATT-03.1	COMMUNICATION	AT&T	6+67.10	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
UGE-04.3	ELECTRIC	PRIVATE	CHANNEL	UNKNOWN	UNKNOWN	UNKNOWN	D	TRIBUTARY REALIGNMENT	REMOVE	-	IN CONTRACT	DURING
GAS-02.2	GAS	KANSAS GAS SERVICE	6+20.15	1	PE	UNKNOWN	D	TRIBUTARY REALIGNMENT	REMOVE	-	IN CONTRACT	DURING
CHAR-02.1	COMMUNICATION	CHARTER	6+61.02	UNKNOWN	UNKNOWN	UNKNOWN	D	TRIBUTARY REALIGNMENT	REMOVE	-	IN CONTRACT	DURING
SS-03	SANITARY	JOCO WASTEWATER	NONE	8	VCP	10'-11' / 920-924	D	NONE	LEAVE IN PLACE	-	N/A	N/A
SS-03.2	SANITARY	JOCO WASTEWATER	NONE	8	VCP	5'-10' / 924-926	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GF-02.2	COMMUNICATION	GOOGLE FIBER	6+60.32	UNKNOWN	UNKNOWN	UNKNOWN	D	TRIBUTARY REALIGNMENT	REMOVE	-	IN CONTRACT	DURING
UGE-04.4	ELECTRIC	PRIVATE	CHANNEL	UNKNOWN	UNKNOWN	UNKNOWN	D	TRIBUTARY REALIGNMENT	REMOVE	-	IN CONTRACT	DURING
SS-02	SANITARY	JOCO WASTEWATER	9+79.93	8	VCP/DIP	11'-14' / 917-920	D	WALL (LB)	RELOCATE	SS-02A	IN CONTRACT	DURING
WL-03	WATER	WATERONE	8+09.48	8	CAS	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GAS-03.1	GAS	KANSAS GAS SERVICE	NONE	1	PE	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
WL-04	WATER	WATERONE	9+93.23	6	CAS/DIP	UNKNOWN	D	WALL (LB)	RELOCATE	WL-04A	IN CONTRACT	DURING

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FILE NO.:
FILE NAME: UTC_CU601.dgn

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

UTILITY INFORMATION SHEET
STA 0+00 TO STA 10+00

SHEET ID
CU601

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UTILITY INFORMATION TABLE - STATION 10+00 TO 20+00

ID	UTILITY	OWNER	UTC BASELINE STATION CROSSING OF LEVEE/FLOODWALL	SIZE (IN)	MATERIAL	DEPTH / ELEVATION	SUE QUALITY LEVEL	IN CONFLICT WITH	ACTION	RESOLUTION	CONSTRUCTION	BEFORE / DURING PROJECT
WL-05	WATER	WATERONE	NONE	8	CAS	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
SS-04	SANITARY	JOCO WASTEWATER	MULTIPLE	42	PVC	12' / 887-912	D	LEVEE (LB & RB) & WALL (LB & RB)	RELOCATE	SS-04A	IN CONTRACT	DURING
UGE-05	ELECTRIC	CITY OF MERRIAM	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
UGE-06	ELECTRIC	CITY OF MERRIAM	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
SS-04.1	SANITARY	JOCO WASTEWATER	14+23.54	8	VCP	16' / 912	D	LEVEE (LB)	RELOCATE	SS-04.1A	IN CONTRACT	DURING
SS-04.2	SANITARY	JOCO WASTEWATER	14+23.54	8	VCP	13' / 915	D	LEVEE (LB)	RECONNECT	-	IN CONTRACT	DURING
ATT-07	COMMUNICATION	AT&T	PARALLEL	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (RB)	REMOVE	-	IN CONTRACT	DURING
GAS-04.1	GAS	KANSAS GAS SERVICE	NONE	1	PE	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GAS-04	GAS	KANSAS GAS SERVICE	27+57.29	2	PE	UNKNOWN	D	LEVEE (RB)	LEAVE IN PLACE	-	N/A	N/A
WL-06	WATER	WATERONE	NONE	8	DIP	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
ATT-08	COMMUNICATION	AT&T	28+01.52	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
CHAR-03	COMMUNICATION	CHARTER	22+06.27	UNKNOWN	UNKNOWN	UNKNOWN	D	LEVEE (RB)	RELOCATE	CHAR-03A	BY OTHERS	DURING
GF-03	COMMUNICATION	GOOGLE FIBER	22+06.27	UNKNOWN	UNKNOWN	UNKNOWN	D	LEVEE (RB)	REMOVE	-	IN CONTRACT	DURING
OHE-04	ELECTRIC	CITY OF MERRIAM	PARALLEL	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (LB)	LEAVE IN PLACE	-	N/A	N/A
CHAR-04.1	COMMUNICATION	CHARTER	19+17.19	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (LB)	RELOCATE	CHAR-04.1A UP AND OVER	BY OTHERS	DURING
GAS-05.1	GAS	KANSAS GAS SERVICE	19+42.57	1	PE	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GAS-05	GAS	KANSAS GAS SERVICE	NONE	2	PE	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A

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U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

UTILITY INFORMATION SHEET
STA 10+00 TO STA 20+00

SHEET ID

CU602

UTILITY INFORMATION TABLE - STATION 20+00 TO 30+00

ID	UTILITY	OWNER	UTC BASELINE STATION CROSSING OF LEVEE/FLOODWALL	SIZE (IN)	MATERIAL	DEPTH / ELEVATION	SUE QUALITY LEVEL	IN CONFLICT WITH	ACTION	RESOLUTION	CONSTRUCTION	BEFORE / DURING PROJECT
GF-03.1	COMMUNICATION	GOOGLE FIBER	21+13.13	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
OHE-05	ELECTRIC	EVERGY	22+04.19	UNKNOWN	UNKNOWN	UNKNOWN	D	LEVEE (RB)	REMOVE	-	IN CONTRACT	DURING
GAS-06	GAS	KANSAS GAS SERVICE	21+90.82	2	PE	UNKNOWN	D	LEVEE (RB)	LEAVE IN PLACE	-	N/A	N/A
GAS-06.1	GAS	KANSAS GAS SERVICE	22+66.60	1	PE	UNKNOWN	D	WALL (RB)	REMOVE	-	IN CONTRACT	DURING
UGE-07	ELECTRIC	CITY OF MERRIAM	21+96.69	UNKNOWN	UNKNOWN	UNKNOWN	D	LEVEE (RB)	LEAVE IN PLACE	-	N/A	N/A
CHAR-03.1	COMMUNICATION	CHARTER	22+06.27	UNKNOWN	UNKNOWN	UNKNOWN	D	LEVEE (RB)	RECONNECT	CONNECT TO NEW POLE ON CHAR-03A	BY OTHERS	BEFORE
GF-03.2	COMMUNICATION	GOOGLE FIBER	22+06.27	UNKNOWN	UNKNOWN	UNKNOWN	D	LEVEE (RB)	REMOVE	-	IN CONTRACT	DURING
SS-05	SANITARY	JOCO WASTEWATER	NONE	8	VCP	10' / 910	D	NONE	LEAVE IN PLACE	-	N/A	N/A
SS-07	SANITARY	JOCO WASTEWATER	NONE	8	PVC	10' / 911	D	NONE	LEAVE IN PLACE	-	N/A	N/A
EF-01	COMMUNICATION	EVERFAST	26+51.01	UNKNOWN	UNKNOWN	UNKNOWN	D	LEVEE (RB)	RECONNECT	EF-01A	BY OTHERS	BEFORE
OHE-06	ELECTRIC	EVERGY	MULTIPLE	UNKNOWN	UNKNOWN	UNKNOWN	D	LEVEE (RB)	RELOCATE	OHE-06A LONG SPAN (450')	BY OTHERS	BEFORE
CHAR-04	COMMUNICATION	CHARTER	25+74.35	UNKNOWN	UNKNOWN	UNKNOWN	D	LEVEE (RB)	RELOCATE	CHAR-04A	BY OTHERS	BEFORE
GF-04	COMMUNICATION	GOOGLE FIBER	25+74.35	UNKNOWN	UNKNOWN	UNKNOWN	D	LEVEE (RB)	RELOCATE	GF-04A	BY OTHERS	BEFORE
WL-07	WATER	WATERONE	NONE	6	PVCC9	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GF-04.1	COMMUNICATION	GOOGLE FIBER	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
ATT-08.1	COMMUNICATION	AT&T	28+24.26	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GF-04.2	COMMUNICATION	GOOGLE FIBER	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GF-04.3	COMMUNICATION	GOOGLE FIBER	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
ATT-09	COMMUNICATION	AT&T	30+07.63	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
ATT-09.1	COMMUNICATION	AT&T	30+07.63	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GF-05.1	COMMUNICATION	GOOGLE FIBER	30+14.84	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
OHE-07.1	ELECTRIC	EVERGY	30+11.67	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
SS-08	SANITARY	JOCO WASTEWATER	NONE	8	VCP	4'-6' / 905-930	D	NONE	LEAVE IN PLACE	-	N/A	N/A

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U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

UTILITY INFORMATION SHEET
STA 20+00 TO STA 30+00

SHEET ID

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UTILITY INFORMATION TABLE - STATION 30+00 TO 40+00

ID	UTILITY	OWNER	UTC BASELINE STATION CROSSING OF LEVEE/FLOODWALL	SIZE (IN)	MATERIAL	DEPTH / ELEVATION	SUE QUALITY LEVEL	IN CONFLICT WITH	ACTION	RESOLUTION	CONSTRUCTION	BEFORE / DURING PROJECT
GAS-07.1	GAS	KANSAS GAS SERVICE	30+51.29	1	PE	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
WL-08	WATER	WATERONE	63+84.25	6-8	CAS/DIP	UNKNOWN	D	WALL (LB) & WALL (RB)	RELOCATE	WL-08A APPROX. 220' OF ENCASEMENT	IN CONTRACT	DURING
WL-09	WATER	WATERONE	32+34.95	4-6-8	DIP	UNKNOWN	D	WALL (LB)	RELOCATE	WL-09A	IN CONTRACT	DURING
OHE-07	ELECTRIC	EVERGY	32+09.38	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GAS-07	GAS	KANSAS GAS SERVICE	30+12.78	2	PE	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GF-05.2	COMMUNICATION	GOOGLE FIBER	30+14.84	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
CHAR-05	COMMUNICATION	CHARTER	30+15.87	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GF-05	COMMUNICATION	GOOGLE FIBER	30+15.87	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GF-06	COMMUNICATION	GOOGLE FIBER	MULTIPLE	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (LB) & WALL (RB)	RELOCATE	GF-06A	BY OTHERS	BEFORE
ATT-08.2	COMMUNICATION	AT&T	33+09.29	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
ATT-08.3	COMMUNICATION	AT&T	37+97.49	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (RB)	REMOVE	-	IN CONTRACT	DURING
WL-10	WATER	WATERONE	NONE	8	CAS	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
UGE-09	ELECTRIC	CITY OF MERRIAM	PARALLEL	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (RB)	REMOVE	-	IN CONTRACT	DURING
UGE-08	ELECTRIC	CITY OF MERRIAM	PARALLEL	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (LB)	REMOVE	-	IN CONTRACT	DURING
GAS-08	GAS	KANSAS GAS SERVICE	34+51.97	2	PE	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GF-06.1	COMMUNICATION	GOOGLE FIBER	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GAS-09	GAS	KANSAS GAS SERVICE	NONE	2	PE	UNKNOWN	D	WALL (LB)	RELOCATE	GAS-09A	BY OTHERS	BEFORE
SS-09	SANITARY	JOCO WASTEWATER	NONE	8	VCP	11' / 902	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GF-06.2	COMMUNICATION	GOOGLE FIBER	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
SS-11	SANITARY	JOCO WASTEWATER	NONE	8	VCP	12' / 903-926	D	NONE	LEAVE IN PLACE	-	N/A	N/A
WL-11	WATER	WATERONE	38+80.92	8	DIP	UNKNOWN	D	WALL (RB)	RELOCATE	WL-11A	IN CONTRACT	DURING
CHAR-06.1	COMMUNICATION	CHARTER	39+28.73	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (LB)	RELOCATE	CHAR-06.1A	BY OTHERS	BEFORE
SS-06	SANITARY	JOCO WASTEWATER	41+87.82	8	VCP	12'-18' / 890-899	D	WALL (RB)	RELOCATE	SS-06A	IN CONTRACT	DURING
SS-14	SANITARY	JOCO WASTEWATER	NONE	8	VCP	18' / 905	D	NONE	LEAVE IN PLACE	-	N/A	N/A
SS-16	SANITARY	JOCO WASTEWATER	PARALLEL	8	PVC	20' / 890	D	NONE	LEAVE IN PLACE	-	N/A	N/A
SS-10	SANITARY	JOCO WASTEWATER	NONE	8	VCP	12' / 899	D	WALL (RB)	RECONNECT	-	IN CONTRACT	DURING
SS-11.1	SANITARY	JOCO WASTEWATER	NONE	8	VCP	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
OHE-08.1	ELECTRIC	EVERGY	MULTIPLE	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (LB)	RELOCATE	OHE-08.1A	BY OTHERS	BEFORE
GF-06.3	COMMUNICATION	GOOGLE FIBER	39+98.28	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (LB)	RELOCATE	GF-06.3A	BY OTHERS	BEFORE
OHE-08.2	ELECTRIC	EVERGY	40+52.13	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (RB)	RELOCATE	OHE-08.2A	BY OTHERS	BEFORE
CHAR-06	COMMUNICATION	CHARTER	MULTIPLE	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (LB) & WALL (RB)	RELOCATE	CHAR-06A	BY OTHERS	BEFORE
OHE-08	ELECTRIC	EVERGY	MULTIPLE	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (LB) & WALL (RB)	RELOCATE	OHE-08A	BY OTHERS	BEFORE

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U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

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MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

UTILITY INFORMATION SHEET
STA 30+00 TO STA 40+00

SHEET ID
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UTILITY INFORMATION TABLE - STATION 40+00 TO 50+00

ID	UTILITY	OWNER	UTC BASELINE STATION CROSSING OF LEVEE/FLOODWALL	SIZE (IN)	MATERIAL	DEPTH / ELEVATION	SUE QUALITY LEVEL	IN CONFLICT WITH	ACTION	RESOLUTION	CONSTRUCTION	BEFORE / DURING PROJECT
GAS-10	GAS	KANSAS GAS SERVICE	40+50.22	8	ACPS	3'-5'	D	WALL (LB) & WALL (RB)	RELOCATE	GAS-10A HORIZONTAL BORE ALONG JOHNSON DR	BY OTHERS	BEFORE
SS-13	SANITARY	JOCO WASTEWATER	NONE	24	VCP	18'-19' / 896-899	D	WALL (RB)	RECONNECT	-	IN	DURING
UGE-10	ELECTRIC	CITY OF MERRIAM	40+69.74	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (RB)	LEAVE IN PLACE	-	N/A	N/A
ATT-10	COMMUNICATION	AT&T	42+11.37	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (LB) & WALL (RB)	RELOCATE	ATT-10A AWAITING FINAL JOHNSON DR BRIDGE ALIGNMENT	BY OTHERS	DURING
WL-12	WATER	WATERONE	NONE	8	DIP	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
UGE-11	ELECTRIC	CITY OF MERRIAM	41+56.69	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
OHE-09	ELECTRIC	EVERGY	MULTIPLE	UNKNOWN	UNKNOWN	UNKNOWN	D	JOHNSON DR BRIDGE	RECONNECT	CONNECT TO NEW POLE ON OHE-08A	BY OTHERS	BEFORE
UGE-12	ELECTRIC	CITY OF MERRIAM	62+64.37	UNKNOWN	UNKNOWN	UNKNOWN	D	MERRIAM DR BRIDGE	RECONNECT	UGE-12A AWAITING FINAL MERRIAM DR BRIDGE ALIGNMENT	BY OTHERS	DURING
GAS-11	GAS	KANSAS GAS SERVICE	NONE	2	PE	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
SS-15	SANITARY	JOCO WASTEWATER	NONE	8	VCP	10' / 900	D	WALL (RB)	RELOCATE	SS-15A	IN CONTRACT	DURING
WL-13	WATER	WATERONE	42+87.92	1	COPPER	UNKNOWN	D	WALL (RB)	RELOCATE	WL-13A	IN CONTRACT	DURING
GF-06.4	COMMUNICATION	GOOGLE FIBER	42+44.63	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (RB)	REMOVE	-	IN CONTRACT	DURING
OHE-08.1	ELECTRIC	EVERGY	MULTIPLE	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (LB)	RELOCATE	OHE-08.1A	BY OTHERS	BEFORE
ATT-11	COMMUNICATION	AT&T	43+26.80	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (RB)	REMOVE	-	IN CONTRACT	DURING
GF-06.5	COMMUNICATION	GOOGLE FIBER	43+27.36	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (RB)	REMOVE	-	IN CONTRACT	DURING
OHE-08.2	ELECTRIC	EVERGY	40+52.13	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (RB)	RELOCATE	OHE-08.2A	BY OTHERS	BEFORE
OHE-08.3	ELECTRIC	EVERGY	43+26.12	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (RB)	RELOCATE	OHE-08.3A	BY OTHERS	BEFORE
OHE-08.4	ELECTRIC	EVERGY	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (RB)	RECONNECT	-	BY OTHERS	BEFORE
GF-06.6	COMMUNICATION	GOOGLE FIBER	44+34.83	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (RB)	RECONNECT	-	BY OTHERS	BEFORE
GF-06.7	COMMUNICATION	GOOGLE FIBER	44+34.83	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (RB)	RECONNECT	-	BY OTHERS	BEFORE
GF-06.8	COMMUNICATION	GOOGLE FIBER	44+34.83	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (RB)	RECONNECT	-	BY OTHERS	BEFORE
OHE-08.5	ELECTRIC	EVERGY	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (RB)	RECONNECT	-	BY OTHERS	BEFORE
OHE-08.6	ELECTRIC	EVERGY	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (RB)	RECONNECT	-	BY OTHERS	BEFORE
SS-15.1	SANITARY	JOCO WASTEWATER	45+15.20	8	VCP	13' / 896	D	WALL (RB)	RECONNECT	-	IN CONTRACT	DURING
OHE-08.7	ELECTRIC	PRIVATE	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	LEVEE (RB)	REMOVE	-	BY OTHERS	BEFORE
GF-06.9	COMMUNICATION	GOOGLE FIBER	46+64.12	UNKNOWN	UNKNOWN	UNKNOWN	D	LEVEE (RB)	REMOVE	-	BY OTHERS	BEFORE
OHE-08.8	ELECTRIC	EVERGY	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
WL-14	WATER	WATERONE	47+26.22	2	CAS	UNKNOWN	D	LEVEE (RB)	ABANDON	-	IN CONTRACT	DURING
GAS-12	GAS	KANSAS GAS SERVICE	NONE	2	PE	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GF-06.10	COMMUNICATION	GOOGLE FIBER	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
SS-18	SANITARY	JOCO WASTEWATER	NONE	8	VCP	12'-15' / 894-898	D	NONE	LEAVE IN PLACE	-	N/A	N/A
SS-17	SANITARY	JOCO WASTEWATER	NONE	8	VCP	15' / 894	D	LEVEE (RB)	RECONNECT	-	IN CONTRACT	DURING

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US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

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CHECKED BY: P. O'CONNELL
SUBMITTED BY:
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U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

DRAFT

MERRIAM, KANSAS
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

UTILITY INFORMATION SHEET
STA 40+00 TO STA 50+00

SHEET ID
CU605

UTILITY INFORMATION TABLE - STATION 50+00 TO 60+00

ID	UTILITY	OWNER	UTC BASELINE STATION CROSSING OF LEVEE/FLOODWALL	SIZE (IN)	MATERIAL	DEPTH / ELEVATION	SUE QUALITY LEVEL	IN CONFLICT WITH	ACTION	RESOLUTION	CONSTRUCTION	BEFORE / DURING PROJECT
ATT-12	COMMUNICATION	AT&T	53+91.88	UNKNOWN	UNKNOWN	UNKNOWN	D	DETENTION BASIN	LEAVE IN PLACE	-	N/A	N/A
ATT-12.1	COMMUNICATION	AT&T	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GAS-11.1	GAS	KANSAS GAS SERVICE	56+46.67	1	PE	UNKNOWN	D	DETENTION BASIN	REMOVE	-	IN CONTRACT	DURING
GF-07.1	COMMUNICATION	GOOGLE FIBER	56+63.46	UNKNOWN	UNKNOWN	UNKNOWN	D	DETENTION BASIN	REMOVE	-	IN CONTRACT	DURING
GF-07.2	COMMUNICATION	GOOGLE FIBER	56+74.10	UNKNOWN	UNKNOWN	UNKNOWN	D	DETENTION BASIN	REMOVE	-	IN CONTRACT	DURING
SS-19.1	SANITARY	JOCO WASTEWATER	NONE	8	VCP	10' / 895	D	DETENTION BASIN	ABANDON	-	IN CONTRACT	DURING
GAS-11.2	GAS	KANSAS GAS SERVICE	56+96.46	1	PE	UNKNOWN	D	DETENTION BASIN	REMOVE	-	IN CONTRACT	DURING
ATT-13	COMMUNICATION	AT&T	63+94.49	UNKNOWN	UNKNOWN	UNKNOWN	D	DETENTION BASIN & WALL (RB)	RELOCATE	ATT-13A	BY OTHERS	BEFORE
CHAR-07	COMMUNICATION	CHARTER	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	DETENTION BASIN	LEAVE IN PLACE	-	N/A	N/A
GF-07	COMMUNICATION	GOOGLE FIBER	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	DETENTION BASIN	LEAVE IN PLACE	-	N/A	N/A
ATT-13.1	COMMUNICATION	AT&T	57+25.94	UNKNOWN	UNKNOWN	UNKNOWN	D	DETENTION BASIN	REMOVE	-	IN CONTRACT	DURING
SS-19	SANITARY	JOCO WASTEWATER	57+83.84	8	VCP	14'-16' / 894-896	D	DETENTION BASIN	RELOCATE	SS-19A	IN CONTRACT	DURING
GF-07.3	COMMUNICATION	GOOGLE FIBER	57+78.36	UNKNOWN	UNKNOWN	UNKNOWN	D	DETENTION BASIN	REMOVE	-	IN CONTRACT	DURING
GAS-11.3	GAS	KANSAS GAS SERVICE	58+17.42	1	PE	UNKNOWN	D	DETENTION BASIN	REMOVE	-	IN CONTRACT	DURING
GF-07.4	COMMUNICATION	GOOGLE FIBER	58+28.69	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (RB)	LEAVE IN PLACE	-	N/A	N/A
GF-07.5	COMMUNICATION	GOOGLE FIBER	59+01.77	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GAS-13	GAS	KANSAS GAS SERVICE	63+84.25	4	APCS	UNKNOWN	D	WALL (LB) & WALL (RB)	REPLACE	GAS-13A HORIZONTAL BORE ALONG MERRIAM DR	BY OTHERS	BEFORE
CHAR-07.1	COMMUNICATION	CHARTER	62+36.55	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GAS-13.1	GAS	KANSAS GAS SERVICE	NONE	1	PE	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GF-07.6	COMMUNICATION	GOOGLE FIBER	59+83.02	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
SS-20	SANITARY	JOCO WASTEWATER	61+86.08	8	VCP	7' / 900-933	D	NONE	LEAVE IN PLACE	-	N/A	N/A

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FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229, FY2023

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STA 50+00 TO STA 60+00

SHEET ID
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UTILITY INFORMATION TABLE - STATION 60+00 TO END

ID	UTILITY	OWNER	UTC BASELINE STATION CROSSING OF LEVEE/FLOODWALL	SIZE (IN)	MATERIAL	DEPTH / ELEVATION	SUE QUALITY LEVEL	IN CONFLICT WITH	ACTION	RESOLUTION	CONSTRUCTION	BEFORE / DURING PROJECT
OHE-10	ELECTRIC	EVERGY	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	DETENTION BASIN	LEAVE IN PLACE	-	N/A	N/A
GAS-15	GAS	KANSAS GAS SERVICE	NONE	1	PE	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GF-08	COMMUNICATION	GOOGLE FIBER	63+77.29	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (LB) & WALL (RB)	RECONNECT	GF-08A	BY OTHERS	BEFORE
OHE-11	ELECTRIC	EVERGY	MULTIPLE	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (LB) & WALL (RB)	RELOCATE	OHE-11A	BY OTHERS	BEFORE
UGE-13	ELECTRIC	CITY OF MERRIAM	MULTIPLE	UNKNOWN	UNKNOWN	UNKNOWN	D	MERRIAM DR BRIDGE	RELOCATE	UGE-13A AWAITING FINAL MERRIAM DR BRIDGE ALIGNMENT	BY OTHERS	DURING
CHAR-08	COMMUNICATION	CHARTER	63+77.29	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (LB) & WALL (RB)	RELOCATE	CHAR-08A	BY OTHERS	BEFORE
CHAR-08.1	COMMUNICATION	CHARTER	62+59.10	UNKNOWN	UNKNOWN	UNKNOWN	D	LEVEE (LB)	REMOVE	-	IN CONTRACT	DURING
GF-08.1	COMMUNICATION	GOOGLE FIBER	62+59.10	UNKNOWN	UNKNOWN	UNKNOWN	D	LEVEE (LB)	REMOVE	-	IN CONTRACT	DURING
OHE-11.1	ELECTRIC	EVERGY	62+59.10	UNKNOWN	UNKNOWN	UNKNOWN	D	LEVEE (LB)	REMOVE	-	IN CONTRACT	DURING
GAS-15.1	GAS	KANSAS GAS SERVICE	NONE	1	PE	UNKNOWN	D	LEVEE (LB)	ABANDON	-	IN CONTRACT	DURING
WL-16	WATER	WATERONE	NONE	1	COPPER	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
SS-21	SANITARY	JOCO WASTEWATER	63+09.17	8	PVC	10' / 897	D	WALL (LB)	RECONNECT	-	IN CONTRACT	DURING
WL-15	WATER	WATERONE	63+12.23	1	COPPER	UNKNOWN	D	WALL (RB)	RELOCATE	WL-15A	IN CONTRACT	DURING
UGE-14	ELECTRIC	CITY OF MERRIAM	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
GAS-14	GAS	KANSAS GAS SERVICE	63+73.73	2	APCS	UNKNOWN	D	WALL (RB)	RELOCATE	GAS-14A	BY OTHERS	BEFORE
ATT-13.2	COMMUNICATION	AT&T	63+94.49	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (RB)	RELOCATE	ATT-13.2A	BY OTHERS	BEFORE
SS-22	SANITARY	JOCO WASTEWATER	65+37.73	8	VCP	20' / 888	D	WALL (LB) & WALL (RB)	RELOCATE	SS-22A	IN CONTRACT	DURING
GF-08.2	COMMUNICATION	GOOGLE FIBER	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
SS-22.1	SANITARY	JOCO WASTEWATER	NONE	8	VCP	7'-10' / 900-904	D	NONE	LEAVE IN PLACE	-	N/A	N/A
SS-22.2	SANITARY	JOCO WASTEWATER	PARALLEL	8	PVC	9' / 889	D	WALL (RB)	RELOCATE	SS-22.2A	IN CONTRACT	DURING
OHE-10.1	ELECTRIC	EVERGY	NONE	UNKNOWN	UNKNOWN	UNKNOWN	D	WALL (RB)	LEAVE IN PLACE	-	N/A	N/A
GAS-14.1	GAS	KANSAS GAS SERVICE	NONE	1	PE	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A
ATT-14	COMMUNICATION	AT&T	66+76.34	UNKNOWN	UNKNOWN	UNKNOWN	D	NONE	LEAVE IN PLACE	-	N/A	N/A

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GENERAL STRUCTURAL NOTES

I. APPLICABLE CODES:

A. ACI 301-20 305R-20 and 306R-16, SPECIFICATIONS FOR STRUCTURAL CONCRETE

B. ASCE 7-16, WITH SUPPLEMENT 1, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

C. AWS D1.1 STRUCTURAL WELDING CODE, STEEL, 2020

D. AWS D1.4 STRUCTURAL WELDING CODE, REINFORCING STEEL, 2018

E. IBC, INTERNATIONAL BUILDING CODE, IBC 2021

F. SP-66 (2004), ACI DETAILING MANUAL

G. ACI 318/318R-19, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

H. AISC STEEL CONSTRUCTION MANUAL, 15TH EDITION (LRFD)

I. AISI S100-16, WITH SUPPLEMENT 2, 2020 EDITION, NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF STEEL STRUCTURAL MEMBERS

J. EM 1110-2-2502 FLOODWALLS AND HYDRAULIC RETAINING WALLS

K. EM 1110-2-2104 STRENGTH DESIGN FOR REINFORCED CONCRETE HYDRAULIC STRUCTURES

II. DESIGN LOADS

A. FLOODWALLS DESIGNED TO UNUSUAL LOADING CONDITIONS PER EM 1110-2-2502 AND EM 1110-2-2104

B. HYDRAULIC LOADING
1. STATIC WATER LOADING FROM THE 100 YEAR STORM EVENT
2. HYRODYNAMIC LOADING NOT CONSIDERED

C. IMPACT LOADING FROM DEBRIS
1. LINEAR LOADING OF 100 LBS APPLIED AT THE WATER SURFACE LEVEL PERPENDICULAR TO THE FACE OF THE WALL.

D. WIND LOAD
1. EXPOSURE CATEGORY = C
2. BASIC WIND SPEED, APPLIED AS PRIMARY LOAD = 122 MPH
3. BASIC WIND SPEED, APPLIED AS COMPANION LOAD = 88 MPH

E. SEISMIC LOAD
1. IMPORTANCE FACTOR = 1.0
2. Ss = 0.095
3. S1 = 0.069
4. SITE CLASS D
5. Sds = 0.101
6. Sd1 = 0.11

III. GENERAL NOTES

A. DESIGN DRAWINGS SHOW INTENT OF REQUIRED CONSTRUCTION AND SPECIFIC CONSTRUCTION AS NEEDED TO FACILITATE CLEAR DETAILING. FOR SPECIFIC CONDITIONS NOT SHOWN, THE CONTRACTOR SHALL PROVIDE DETAILS OF CONSTRUCTION SIMILAR TO THOSE SHOWN. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS PRIOR TO COMMENCING WORK. IF DISCREPANCIES EXIST, NOTIFY THE CONTRACTING OFFICER IN WRITING PRIOR TO COMMENCING WORK. CONTRACTOR SHALL MAKE NO DEVIATION FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL FROM THE CONTRACTING OFFICER.

B. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OR SEQUENCE OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, TEMPORARY BRACING AND/OR SHORING FOR LOADS AND STRUCTURE. TEMPORARY CONSTRUCTION LOADING MAY INCLUDE AND ARE NOT LIMITED TO LATERAL LOADS, LOADS DUE TO STOCKPILES OF MATERIAL, AND LOADS DUE TO CONSTRUCTION EQUIPMENT. SUCH BRACING SHALL BE LEFT IN PLACE AS LONG AS REQUIRED FOR SAFETY AND UNTIL ALL FRAMING INCLUDING ROOF DECK IS IN PLACE.

C. THE CONTRACTOR SHALL PROTECT ALL PUBLIC AND PRIVATE EXISTING FACILITIES, STRUCTURES, AND UTILITY LINES FROM ALL DAMAGE. DAMAGE TO ALL WORK SHALL BE REPAIRED TO THE SATISFACTION OF THE CONTRACTING OFFICER AT THE CONTRACTOR'S EXPENSE.

D. JOB SAFETY AND CONSTRUCTION PROCEDURES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

E. DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.

IV. FOUNDATION & SOIL DATA

A. THE FOUNDATION SYSTEM CONSISTS OF CONTINUOUS WALL FOOTINGS. THE MINIMUM DEPTH TO THE BOTTOM OF THE FOOTINGS IS 3'-0" BELOW ADJACENT FINISH GRADE, UNO. THE NET ALLOWABLE SOIL BEARING CAPACITY IS 2000 PSF FOR CONTINUOUS WALL FOOTINGS.

B. REFER TO THE EARTHWORK SPECIFICATION 35 41 00 FOR DESCRIPTION AND REQUIREMENTS FOR BEARING MATERIALS.

C. ALL COMPACTED FILL INSTALLATION SHALL BE INSPECTED AND APPROVED BY A REGISTERED GEOTECHNICAL ENGINEER OBTAINED BY THE CONTRACTOR. THE REGISTERED GEOTECHNICAL ENGINEER SHALL INSPECT AND APPROVE BEARING MATERIALS PRIOR TO THE PLACEMENT OF CONCRETE.

D. HAND COMPACT BACKFILL AROUND FOUNDATIONS SHALL BE PLACED ON EACH SIDE OF THE WALL IN 8" LIFTS.

V. REINFORCED CONCRETE:

A. MATERIAL STRENGTHS:

1. CONCRETE COMPRESSIVE STRENGTH (fc) AT 28 DAYS SHALL BE 4500 PSI UNLESS NOTED OTHERWISE.

2. REINFORCING STEEL:

BARS NOT WELDED	ASTM A615, GR. 60 KSI
TIES	ASTM A615, GR. 60 KSI
BARS (WELDED)	ASTM A706, GR. 60 KSI
WELDED WIRE REINFORCEMENT	ASTM A1064

B. NOTES:

1. ALL CONCRETE OPERATIONS AND REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE LATEST ACI AND CRSI STANDARDS.

2. REFER TO CIVIL DRAWINGS FOR ADDITIONAL EMBEDDED ITEMS AND ACCESSORIES. NO CALCIUM CHLORIDE OR OTHER DELETERIOUS SALTS ARE PERMITTED IN CONCRETE. NO ALUMINUM EMBEDMENTS ARE PERMITTED. PROVIDE 1" CHAMFER AT ALL EXPOSED CORNERS.

3. FURNISH THE FOLLOWING SPECIFIED CONCRETE COVER ON REINFORCING BARS UNO: PER TABLE 2-1 OF EM 1110-2-2104.

UNIFORM SURFACES IN CONTACT WITH FOUNDATION	4"
FORMED OR SCREEDED SURFACES SUBJECT TO CAVITATION OR ABRASION EROSION	6"
FORMED SURFACES ≥ 24"	4"
FORMED SURFACES > 12" AND < 24"	3"

REFER TO THE SPECIFICATIONS FOR THE FINISH REQUIREMENTS FOR ALL CAST-IN-PLACE CONCRETE ELEMENTS.

4. LONGITUDINAL REINFORCING IN THE FLOODWALL WALLS AND FOUNDATIONS SHALL BE PLACED CONTINUOUS AT CORNERS AND INTERSECTIONS. MATCHING CORNER BARS SHALL BE USED PER THE TYPICAL CONCRETE REINFORCEMENT DETAILS ON THE CONTRACT DRAWINGS.

5. ALL CONCRETE IS REINFORCED UNLESS SPECIFICALLY CALLED OUT AS UNREINFORCED. REINFORCE ALL CONCRETE NOT OTHERWISE SHOWN WITH THE SAME STEEL AS IN SIMILAR SECTIONS AND AREAS.

6. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVES, ETC., AS REQUIRED WITH OTHER TRADES PRIOR TO PLACING CONCRETE.

7. CONTRACTOR SHALL COORDINATE LOCATIONS OF INSERTS, WELDED PLATES, AND OTHER ITEMS EMBEDDED IN CONCRETE WITH CIVIL DRAWINGS AND OTHER TRADES.

8. ALL SLABS SHALL BE FLAT AND LEVEL PER SPECIFICATIONS.

9. ALL REINFORCING BARS SHALL BE LAPPED AS SPECIFICALLY DETAILED ON THE DRAWINGS. REFERENCE SPLICE AND EMBEDMENT SCHEDULE PER THE TYPICAL CONCRETE DETAILS. WHERE NOT SPECIFICALLY DETAILED ON THE DRAWINGS. ALL REINFORCING BARS SHALL BE LAPPED USING THE TENSION LAPPED SPLICE LENGTHS PER ACI 318-19.

VI. MISCELLANEOUS LAP LENGTH SCHEDULE AND NOTES (BASED ON ACI 318-19):

MISCELLANEOUS LAP LENGTH SCHEDULE (INCHES)

BAR SIZE	4000 PSI			4500 PSI		
	TOP BARS	OTHER BARS	HOOK DEVELOP. LENGTH (L_{DH})	TOP BARS	OTHER BARS	HOOK DEVELOP. LENGTH (L_{DH})
#3	25	19	6	23	18	6
#4	33	25	6	31	24	6
#5	41	31	8	38	30	8
#6	49	37	10	46	35	10
#7	71	54	13	67	51	12
#8	81	62	15	76	59	15
#9	91	70	18	86	66	18
#10	102	79	22	96	74	21
#11	114	87	26	107	82	25

A. CONCRETE COVER IS AS DEFINED IN REINFORCED CONCRETE SECTION OF GENERAL NOTES.

B. BAR LAP LENGTH OF THE SMALLER DIAMETER BAR SHALL BE USED WHEN SPLICING DIFFERENT SIZE BARS.

C. LAP LENGTHS SPECIFICALLY DETAILED ON THE DRAWINGS SHALL GOVERN IN LIEU OF LAP LENGTHS SCHEDULED.

D. LAP SPLICES SHALL BE WIRED IN CONTACT.

E. TABULATED VALUES ARE BASED ON CLASS B TENSION LAP SPLICES FOR GRADE 60 REINFORCING BARS AND NORMAL WEIGHT CONCRETE.

F. TABULATED TENSION LAP LENGTHS ARE CALCULATED ASSUMING COVER AT LEAST $1.0d_b$ AND CTR-CTR SPACING AT LEAST $3.0d_b$.

G. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CASE BELOW BARS.

H. STRAIGHT EMBEDMENT LENGTH (LTS) SHALL BE THE TABULATED LAP LENGTH DIVIDED BY 1.3.

VII. STRUCTURAL STEEL

A. DESIGN CODES: SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS (AISC)

B. MATERIAL STRENGTHS:

STRUCTURAL STEEL ROLLED W-SHAPES	ASTM A992 (Fy=50 KSI)
CHANNELS, ANGLES, & OTHER HOT ROLLED SHAPES	ASTM A36
BASEPLATES AND ALL OTHER MISC PLATES & BARS	ASTM A572 GR 50, UNO
RECTANGULAR OR SQUARE HSS	ASTM A500 GR C (Fy=50 KSI) OR ASTM A1085 (Fy=50 KSI)
ROUND HSS	ASTM A500 GR B (Fy=46 KSI) OR A1085 (Fy=50 KSI)
HIGH STRENGTH BOLTS	ASTM F3125 GR A325 W/ASTM F595 DTI WASHERS OR ASTM F3125 GR F1852 TWIST OFF ASSEMBLIES
ANCHOR RODS	ASTM F1554 GR 105
WELDING ELECTRODES	E70
HEADED STUD ANCHORS	ASTM A108 (Fu = 65 KSI)

C. ALL STRUCTURAL STEEL AND THEIR CONNECTIONS SHALL BE DETAILED, FABRICATED, AND ERECTED ACCORDING TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION, 15TH EDITION.

D. STRUCTURAL STEEL SUPPLIER SHALL PROVIDE CONNECTIONS PER DESIGN DRAWINGS. FOR ALL SIMPLE SHEAR CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS REFERENCE SPECIFICATION SECTION 05 12 00.

E. STRUCTURAL STEEL SHALL BE PAINTED OR GALVANIZED PER SPECIFICATIONS.

F. ALL WELDING SHALL BE DONE BY AMERICAN WELDING SOCIETY (AWS) CERTIFIED WELDERS.

G. PROVIDE ANY TEMPORARY BRACING OR GUYS TO PROVIDE LATERAL SUPPORT OF THE BUILDING AND INDIVIDUAL ELEMENTS UNTIL PERMANENT FRAME AND DECK ARE COMPLETELY INSTALLED. ROOF DECK SERVES AS HORIZONTAL DIAPHRAGMS THAT DISTRIBUTE THE LATERAL WIND AND SEISMIC FORCES HORIZONTALLY TO THE COLD-FORMED TRUSS MEMBERS. COLD-FORMED TRUSS MEMBERS CARRY THE APPLIED LATERAL LOADS TO THE STRUCTUAL SLABS OR SHEAR WALLS OF THE BUILDING.

H. BOLTS NOTED ON PLAN AS "FINGER TIGHT" SHALL BE TIGHTENED TO A FINGER TIGHT CONDITION. DAMAGE THREADS OR PROVED DOUBLE NUT TO PREVENT NUT FROM LOOSENING.

STRUCTURAL ABBREVIATIONS

ABBREVIATION	ABBREVIATION NAME
#	NUMBER
&	AND
=	EQUAL, EQUALS
@	AT
AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADJ	ADJACENT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
APPROX	APPROXIMATELY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AT/FP	ANTI-TERRORISM/ FORCE PROTECTION
AWS	AMERICAN WELDING SOCIETY
BLW	BELOW
BM	BEAM
BOF	BOTTOM OF FOOTING
BOT	BOTTOM
BRG	BEARING
BTFPTM	BEAT TO FIT, PAINT TO MATCH
CENT	CENTERED
CIP	CAST IN PLACE
CJ	CONTROL JOINT/CEILING JOIST
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
COND	CONDITION
CONN	CONNECT, CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
COR	CORNER
CWB	CAPILLARY WATERBARRIER
D	DEEP, DEPTH
DEG	DEGREE
DEM	DEMOLISH, DEMOLITION
DEP	DEPRESSED
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DL	DEADLOAD
DT	DRAG TRUSS
DWG(S)	DRAWINGS
DWL	DOWEL
EA	EACH
EF	EACHFACE
ELEC	ELECTRICAL
ELEV	ELEVATION
EQN	EQUATION
EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
EXIST	EXISTING
EXT	EXTERNAL, EXTERIOR
FF	FAR FACE
FND	FOUNDATION
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FS	FAR SIDE

STRUCTURAL ABBREVIATIONS

ABBREVIATION	ABBREVIATION NAME
FT, '	FOOT
FTG	FOOTING
Fy	YIELD STRESS
HORIZ	HORIZONTAL
HP	HIGH POINT
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
I	MOMENT OF INERTIA
ID	INSIDE DIAMETER
IN, "	INCH
INCL	INCLUDE
INFO	INFORMATION
K, KIPS	THOUSAND POUNDS
L	LENGTH, ANGLE
LB	POUND
LG	LONG
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATE, LOCATION
LONG	LONGITUDINAL
LP	LOW POINT
LW	LIGHT WEIGHT
MAS	MASONRY
MBR	MEMBER
MED	MEDIUM
MF	MOMENT FRAM
MFG	MANUFACTURING
MIN	MINIMUM
MO	MASONRY OPENING
MOD	MODIFY, MODIFIED
MRF	MANUFACTURER
NF	NEAR FACE
NOM	NOMINAL
NS	NEAR SIDE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND, OVERHEAD
PAR	PARALLEL
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PFJ	PERIMETER FELT JOINT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED, POINT, PRETENSIONED
REINF	REINFORCING, REINFORCED
REQ	REQUIRED
S	SECTION MODULUS
SCHED	SCHEDULE
SDI	STEEL DECK INSTITUTE
SECT	SECTION
SEIS	SEISMIC
SEP	SEPARATION
SHT	SHEET
SIM	SIMILAR
SPEC(S)	SPECIFICATION(S)
SPRT	SUPPORT
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRT	STRUCTURAL, STRUCTURE
SUSP	SUSPENDED
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
THK	THICK, THICKNESS
TL	TOTAL LOAD
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
W	WIDTH, WEST, WIDE FLANGE
w/	WITH
x	BY, TIMES

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: J. WESTBROOK
DRAWN BY: J. WESTBROOK
CHECKED BY: P. MULLER
SUBMITTED BY: A. SVITAK
SIZE: ANSI D
ISSUE DATE: MARCH 2026
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.: SEE COVER SHEET
505229_UTC_RVT25_S.RVT

US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

GENERAL STRUCTURAL NOTES, DESIGN LOADS & ABBREVIATIONS

SHEET ID
S001

50%

GENERAL NOTES

1. SEE S-001 FOR GENERAL NOTES S-300 SHEETS FOR SECTIONS AND S-500 SHEETS FOR TYPICAL DETAILS
2. MONOLITHS ARE 20 FEET IN LENGTH UNLESS NOTED OTHERWISE, SEE S-500 FOR JOINT DETAILS
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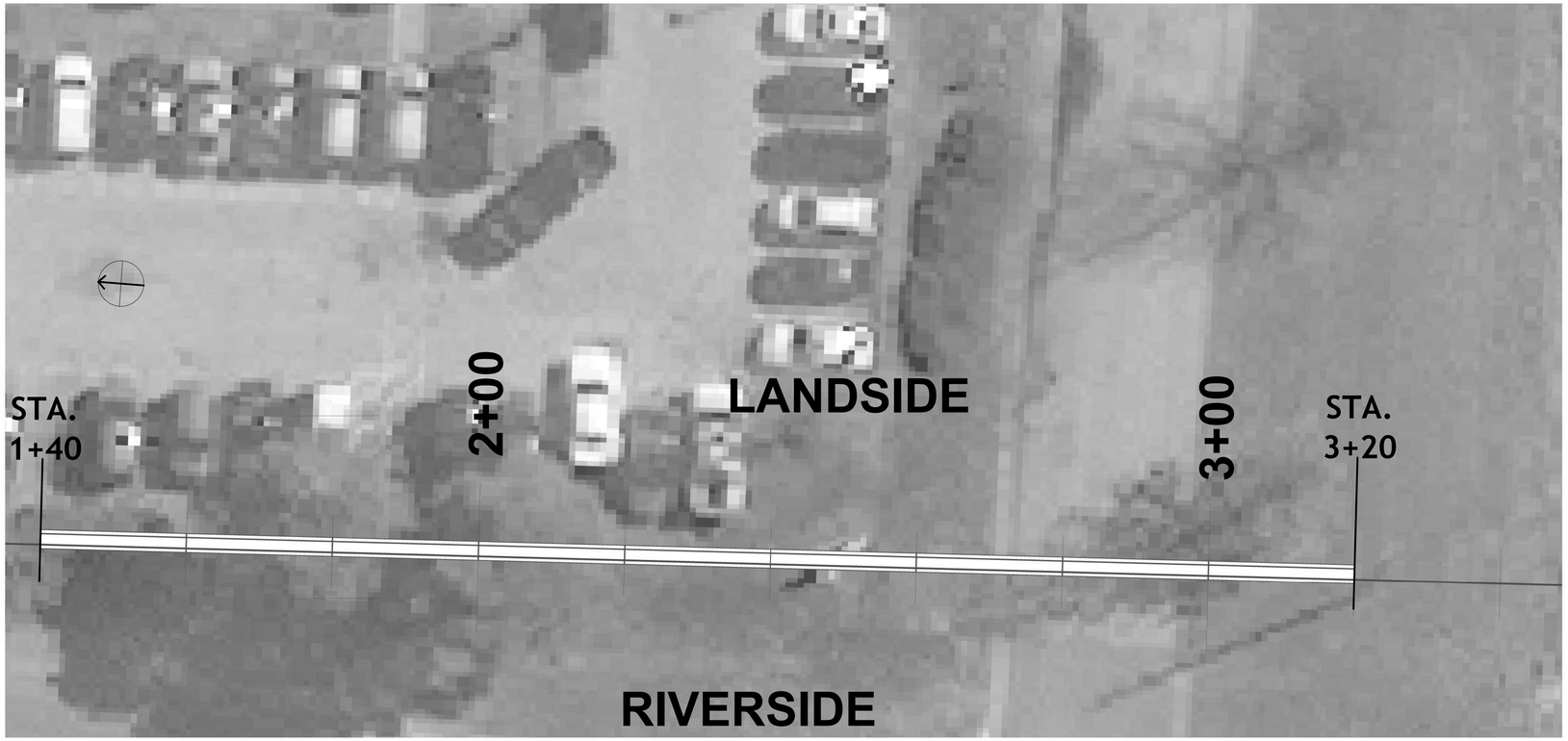
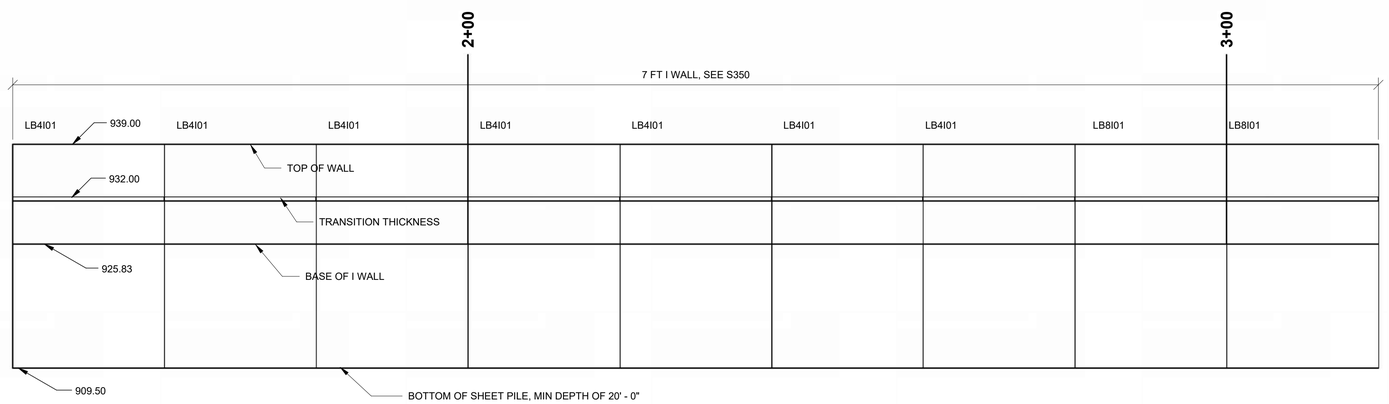


G1 PLAN LB 1+40 - 3+20

SCALE: 1" = 10'-0"

0 5' 10' 20'



A1 LEFT BANK RIVERSIDE PROFILE

SCALE: 1" = 10'-0"

0 5' 10' 20'

US Army Corps of Engineers ®

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US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

LEFT BANK LAYOUT
STA 1+40 TO STA 3+20

SHEET ID

S101

50%

GENERAL NOTES

1. SEE S-001 FOR GENERAL NOTES S-300 SHEETS FOR SECTIONS AND S-500 SHEETS FOR TYPICAL DETAILS
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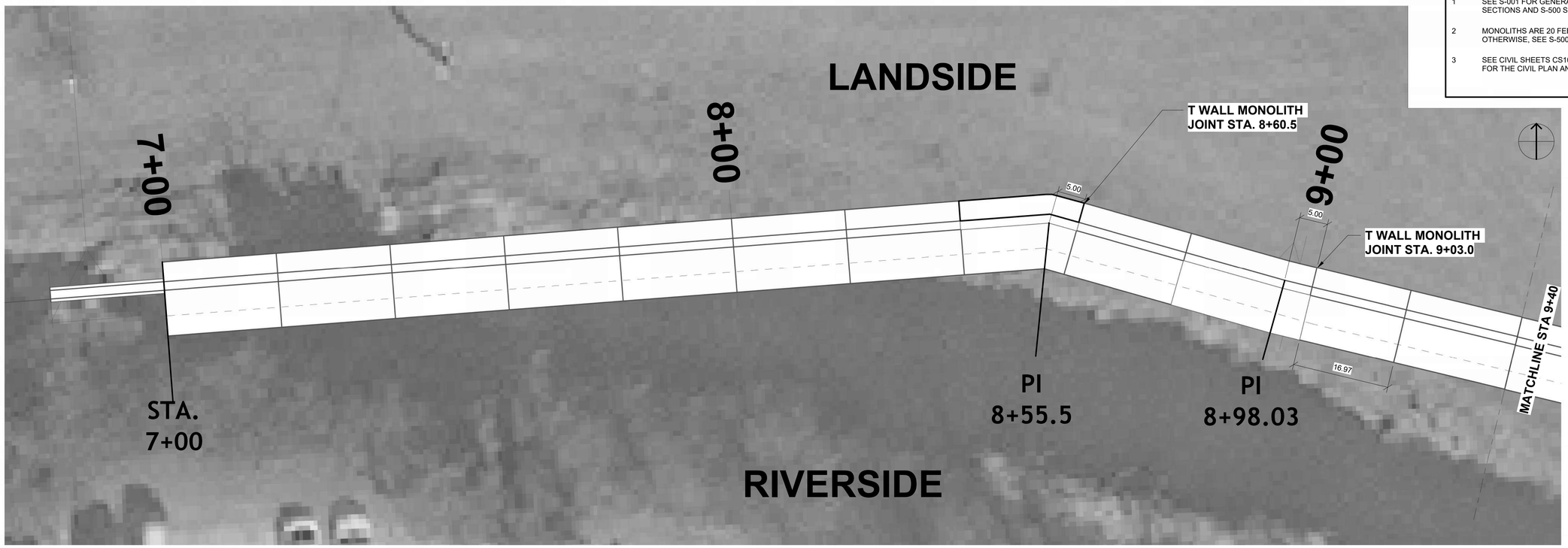

G1 PLAN LB 7+00 - 9+40

SCALE: 1" = 10'-0"

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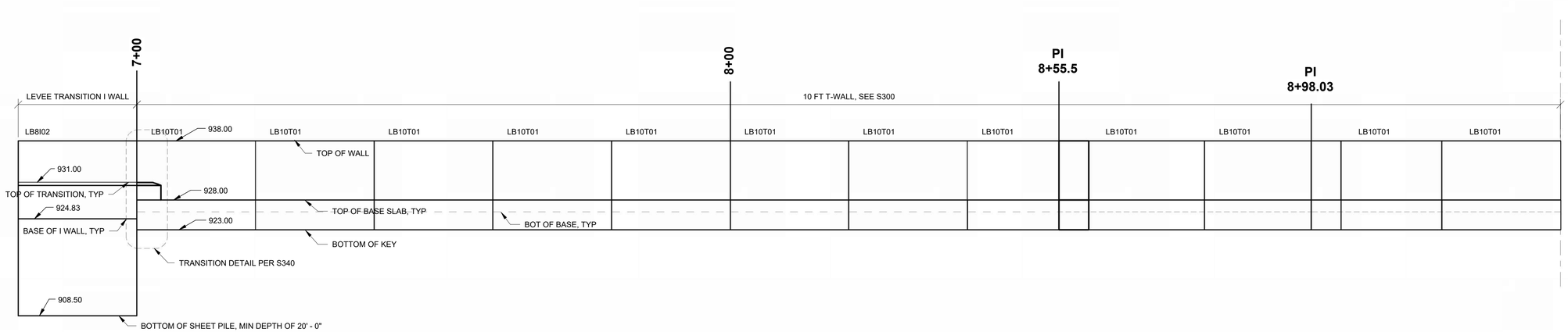

A1 LEFT BANK RIVERSIDE PROFILE

SCALE: 1" = 10'-0"

0 5' 10' 20'

US Army Corps of Engineers ®

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CHECKED BY: P. MÜLLER
SUBMITTED BY: A. SVITAK
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KANSAS CITY, MO 64106

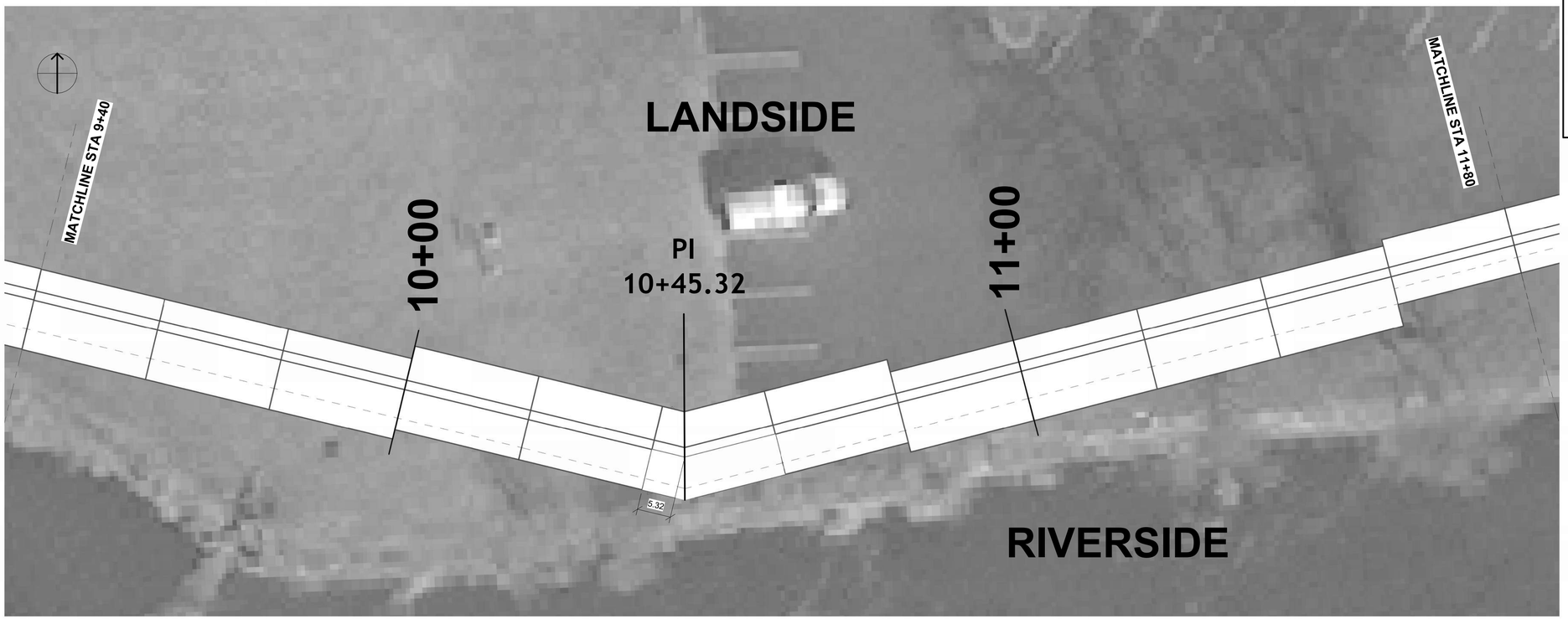
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

LEFT BANK LAYOUT
7+00 - 9+40

SHEET ID

S102

50%



GENERAL NOTES

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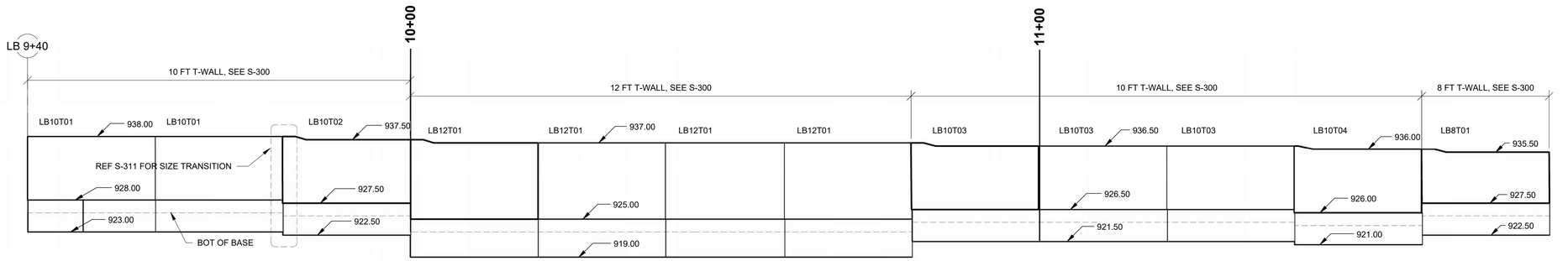
G1 PLAN LB 9+40 - 11+80

SCALE: 1" = 10'-0"

0 5' 10' 20'



A1 LEFT BANK RIVERSIDE PROFILE

SCALE: 1" = 10'-0"

0 5' 10' 20'

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: J. WESTBROOK
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US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

LEFT BANK LAYOUT
STA 9+40 TO STA 11+80

SHEET ID

S103

50%

GENERAL NOTES

1. SEE S-001 FOR GENERAL NOTES S-300 SHEETS FOR SECTIONS AND S-500 SHEETS FOR TYPICAL DETAILS
2. MONOLITHS ARE 20 FEET IN LENGTH UNLESS NOTED OTHERWISE, SEE S-500 FOR JOINT DETAILS
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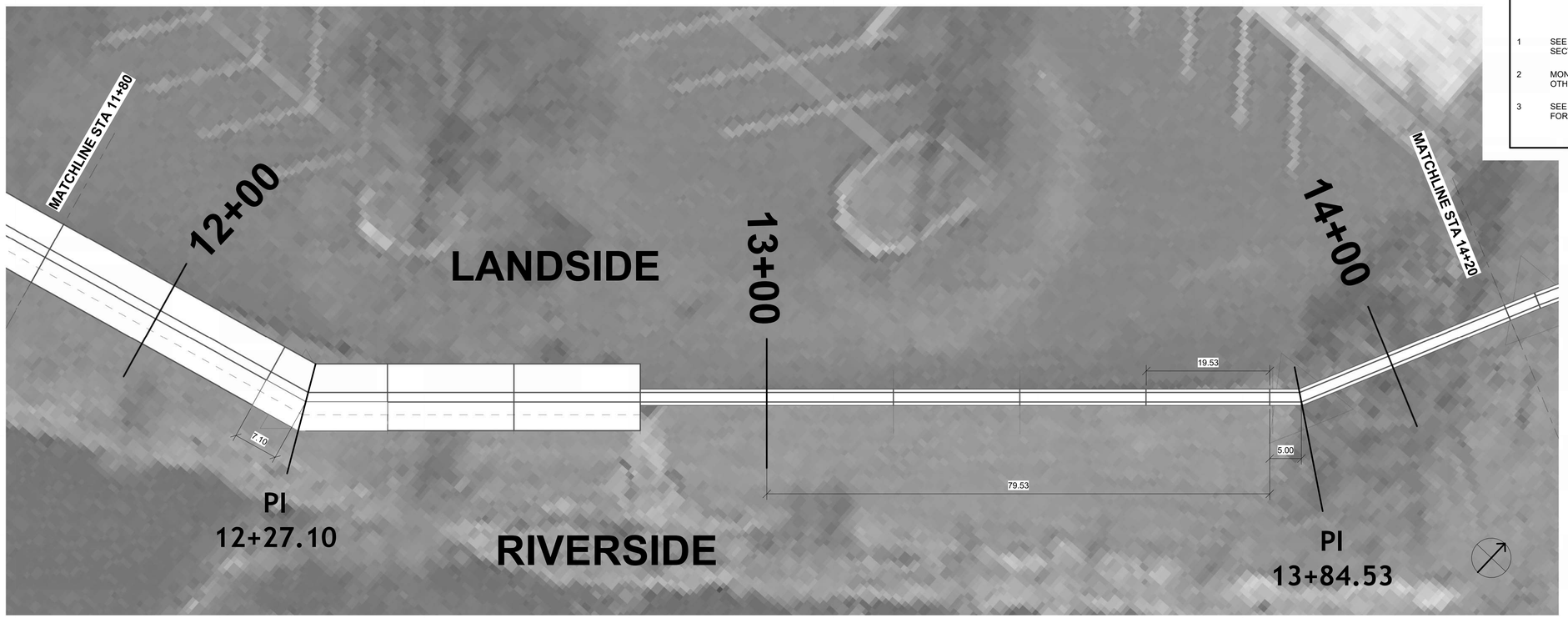
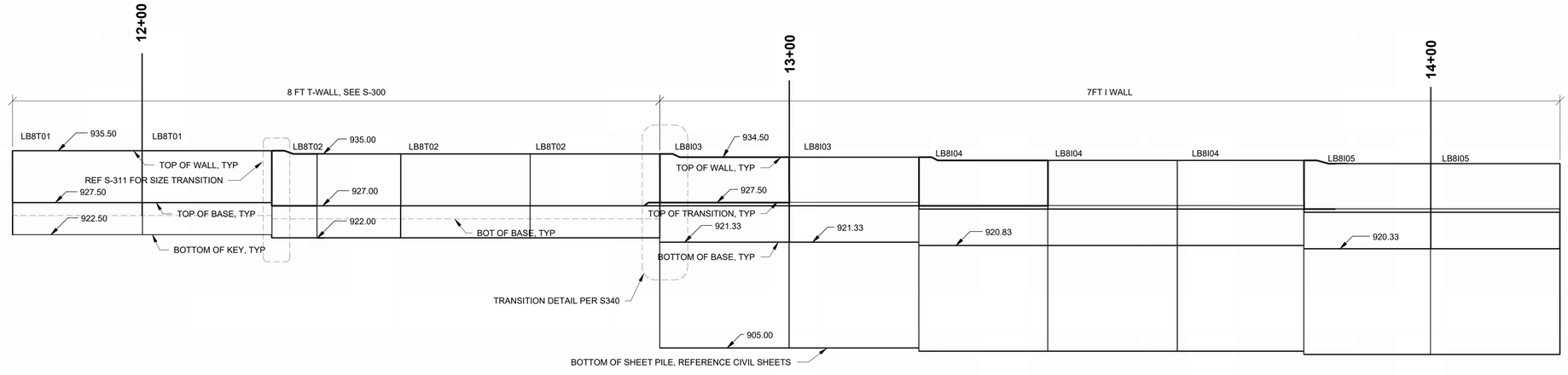


G1 PLAN LB 11+80 - 14+20

SCALE: 1" = 10'-0"

0 5' 10' 20'



A1 LEFT BANK RIVERSIDE PROFILE

SCALE: 1" = 10'-0"

0 5' 10' 20'

US Army Corps of Engineers ®

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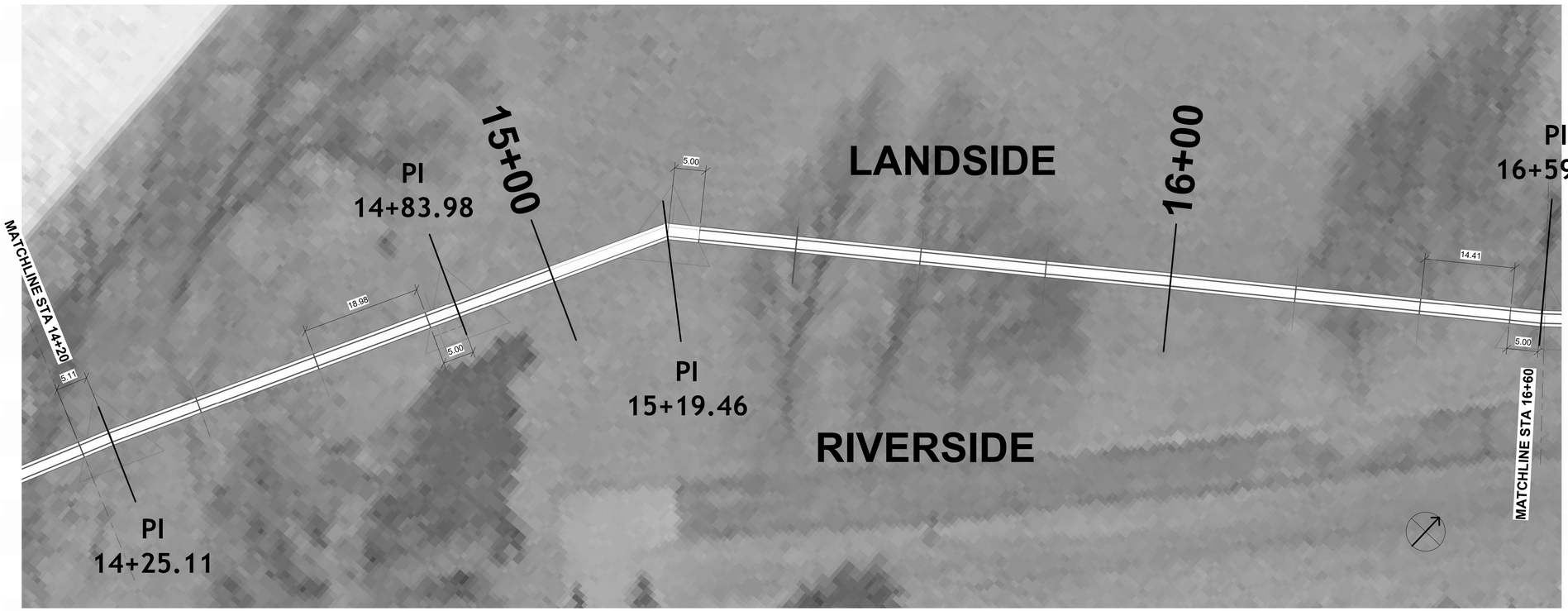
KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

LEFT BANK LAYOUT
STA 11+80 TO STA 14+20

SHEET ID
S104

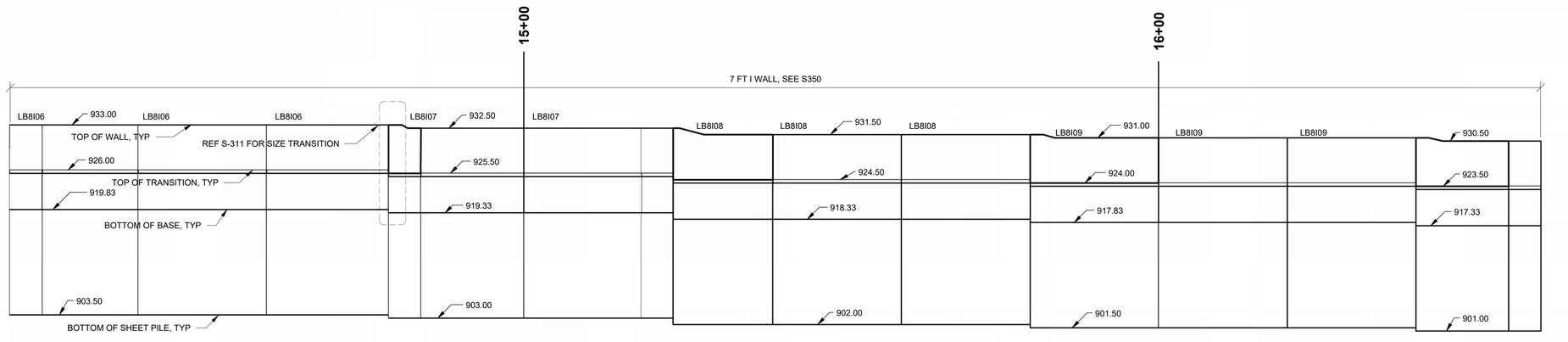
50%



G1 PLAN LB 14+20 - 16+60

SCALE: 1" = 10'-0"

0 5' 10' 20'



A1 LEFT BANK RIVERSIDE PROFILE

SCALE: 1" = 10'-0"

0 5' 10' 20'

GENERAL NOTES

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2. MONOLITHS ARE 20 FEET IN LENGTH UNLESS NOTED OTHERWISE, SEE S-500 FOR JOINT DETAILS
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US Army Corps of Engineers ®

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KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

LEFT BANK LAYOUT
STA 14+20 TO STA 16+60

SHEET ID

S105

50%

GENERAL NOTES

1. SEE S-001 FOR GENERAL NOTES S-300 SHEETS FOR SECTIONS AND S-500 SHEETS FOR TYPICAL DETAILS
2. MONOLITHS ARE 20 FEET IN LENGTH UNLESS NOTED OTHERWISE, SEE S-500 FOR JOINT DETAILS
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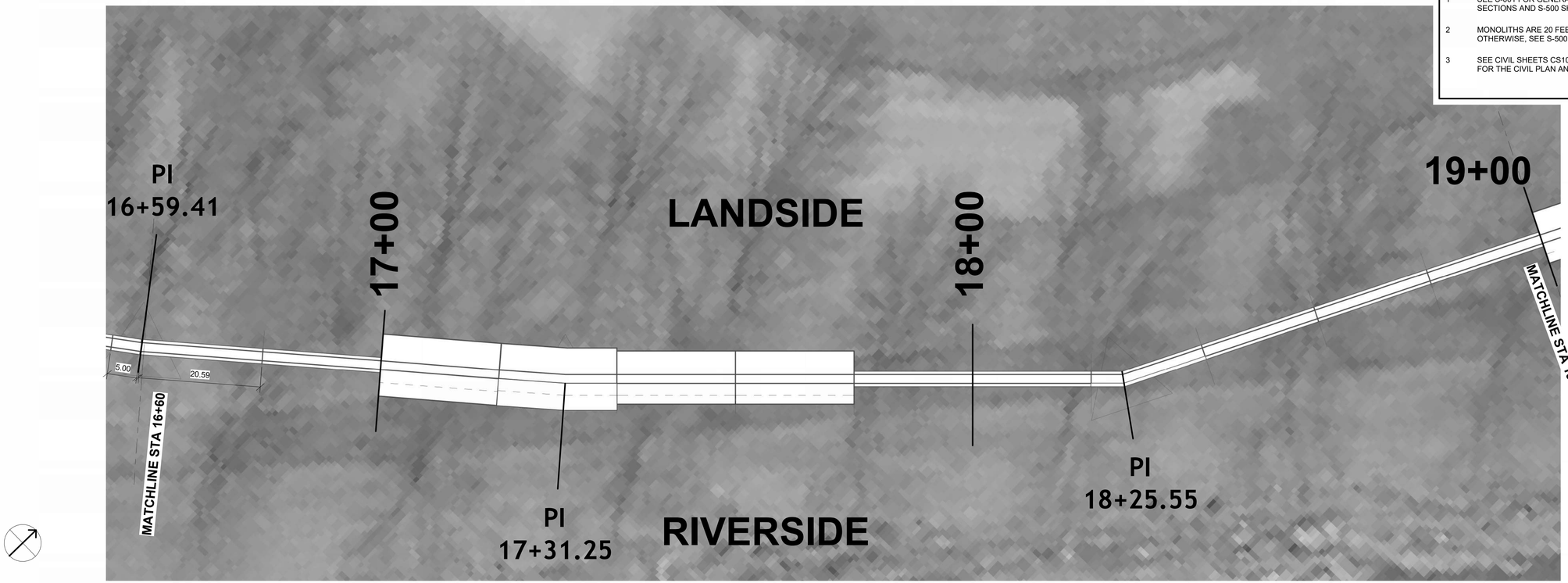
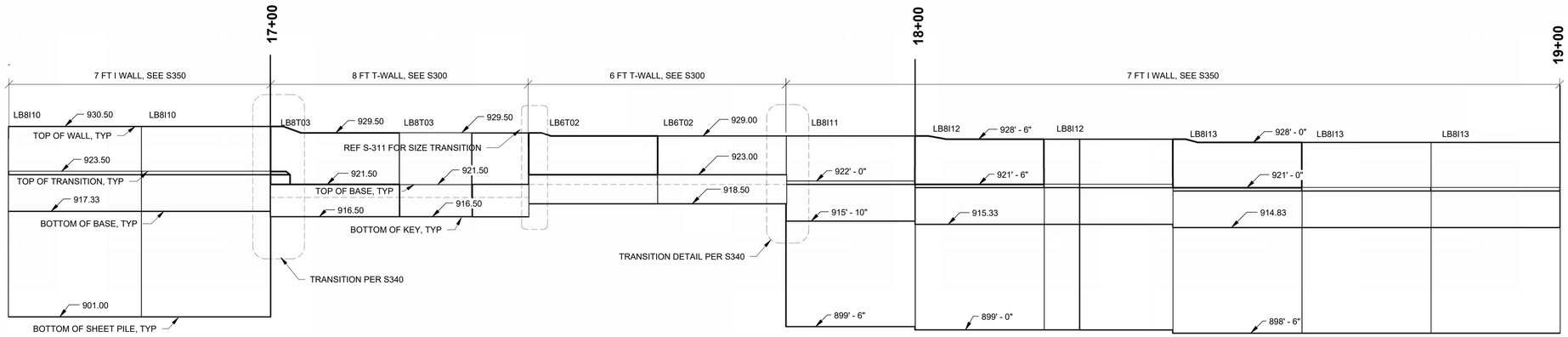


G1 PLAN LB 16+60 - 19+00

SCALE: 1" = 10'-0"

0 5' 10' 20'



A1 LEFT BANK RIVERSIDE PROFILE

SCALE: 1" = 10'-0"

0 5' 10' 20'

US Army Corps of Engineers ®

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KANSAS CITY DISTRICT
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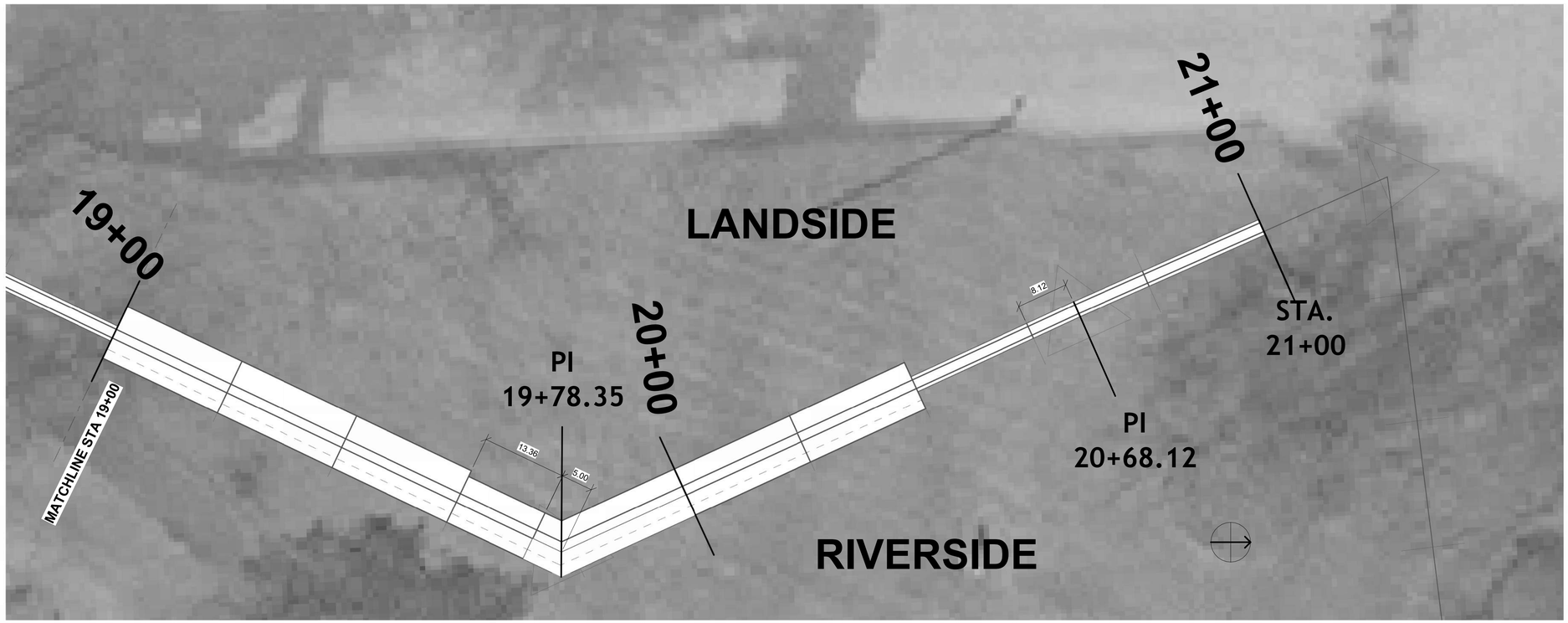
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

LEFT BANK LAYOUT
STA 16+60 TO STA 19+00

SHEET ID
S106

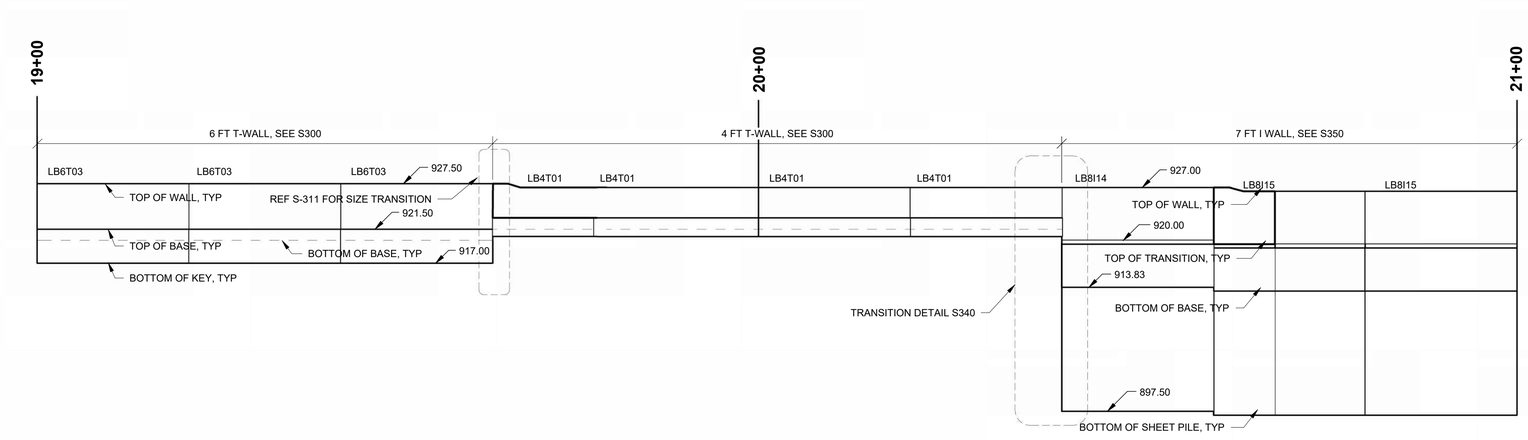
50%



G1 PLAN LB 19+00 - 21+20

SCALE: 1" = 10'-0"

0 5' 10' 20'



A1 LEFT BANK RIVERSIDE PROFILE

SCALE: 1" = 10'-0"

0 5' 10' 20'

GENERAL NOTES

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FLOOD RISK MANAGEMENT PROJECT
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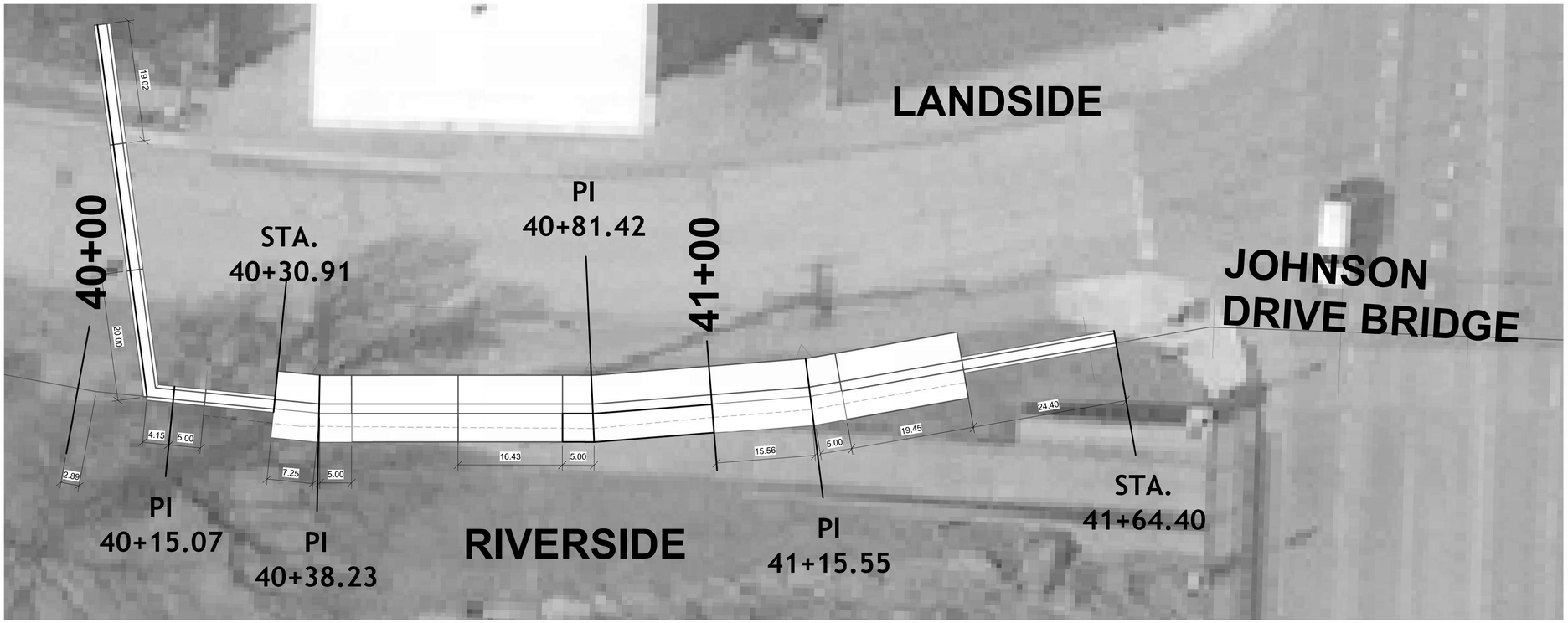
P2 - 505229

LEFT BANK LAYOUT
STA 19+00 TO STA 21+20

SHEET ID

S107

50%



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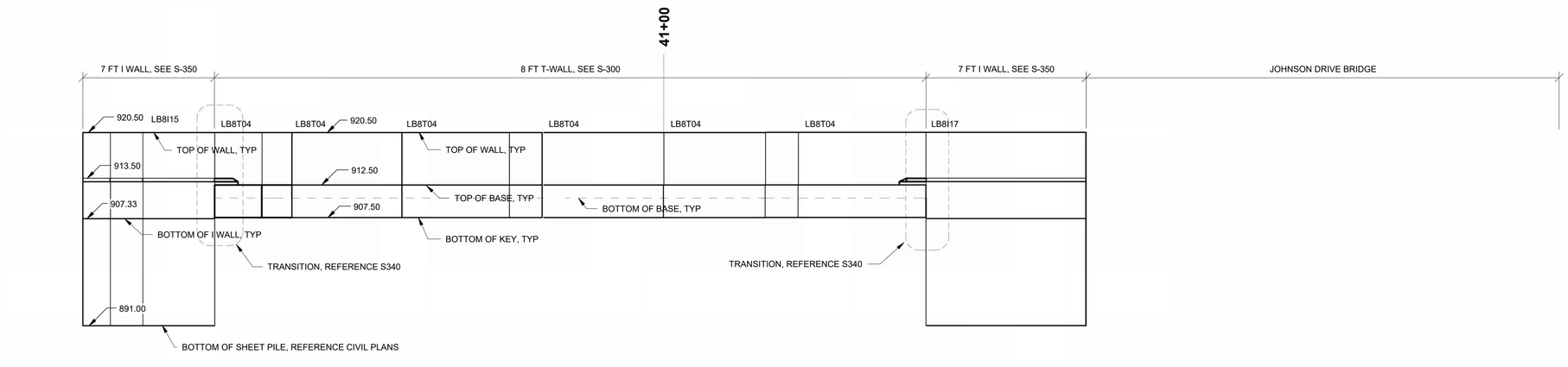
G1 PLAN LB 40+00 - 41+64.40

SCALE: 1" = 10'-0"

0 5' 10' 20'



A1 LEFT BANK RIVERSIDE PROFILE

SCALE: 1" = 10'-0"

0 5' 10' 20'

US Army Corps of Engineers ®

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KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

LEFT BANK LAYOUT
STA 40+00 TO STA 41+64.40

SHEET ID

S108

50%

GENERAL NOTES

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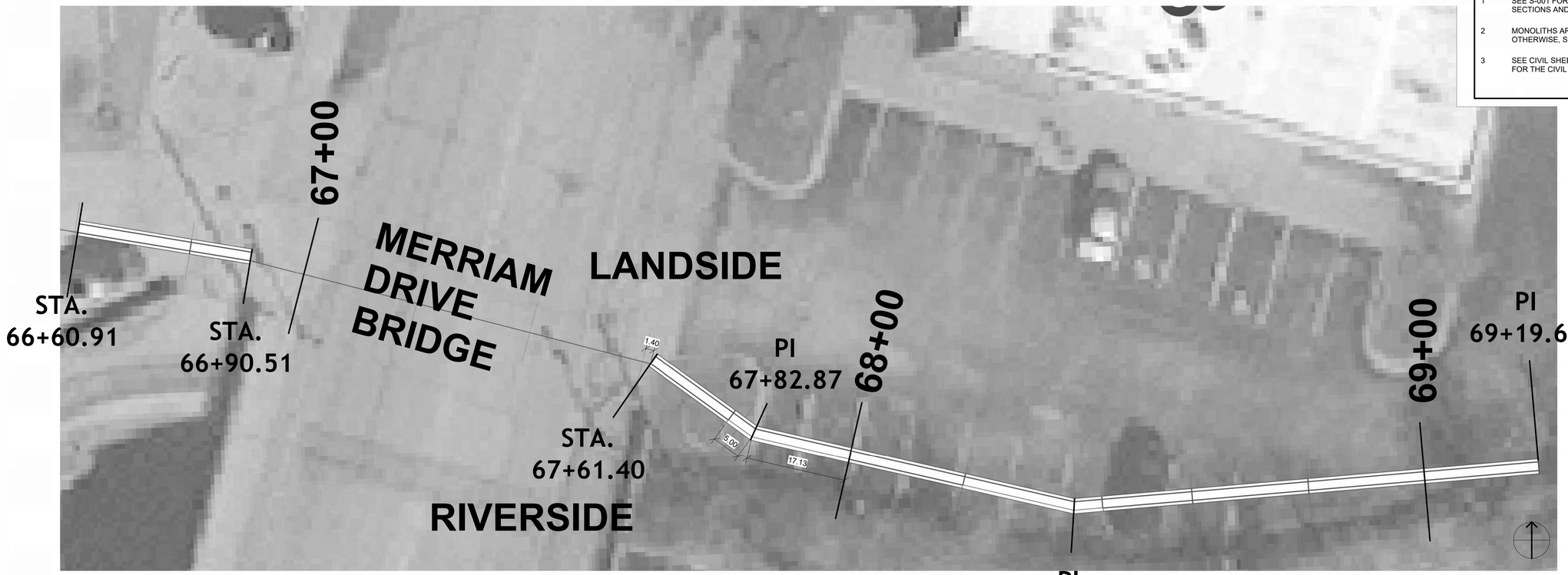
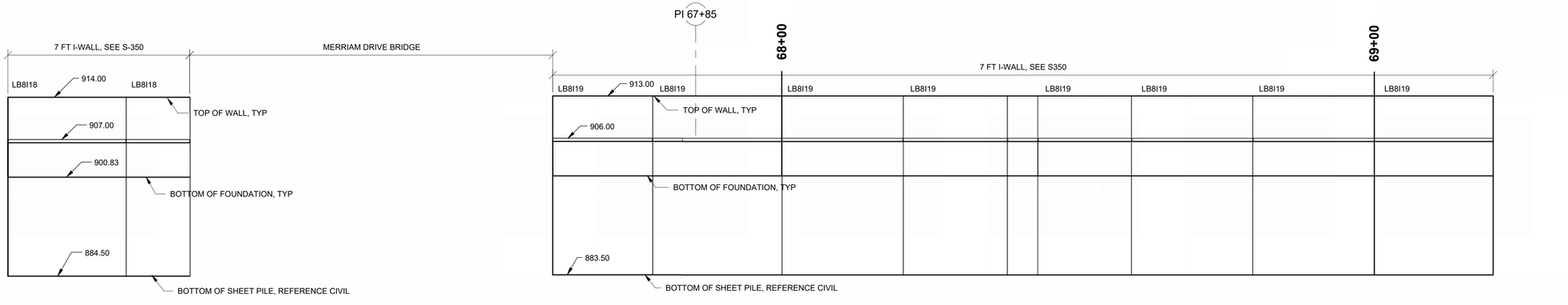


G1 PLAN LB 66+60.91 - 69+19.66

SCALE: 1" = 10'-0"

0 5' 10' 20'



A1 LEFT BANK RIVERSIDE PROFILE

SCALE: 1" = 10'-0"

0 5' 10' 20'

US Army Corps of Engineers ®

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DESIGNED BY: J WESTBROOK
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KANSAS CITY DISTRICT
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FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

LEFT BANK LAYOUT
STA 66+60.91 TO STA 69+19.66

SHEET ID

S109

50%

GENERAL NOTES

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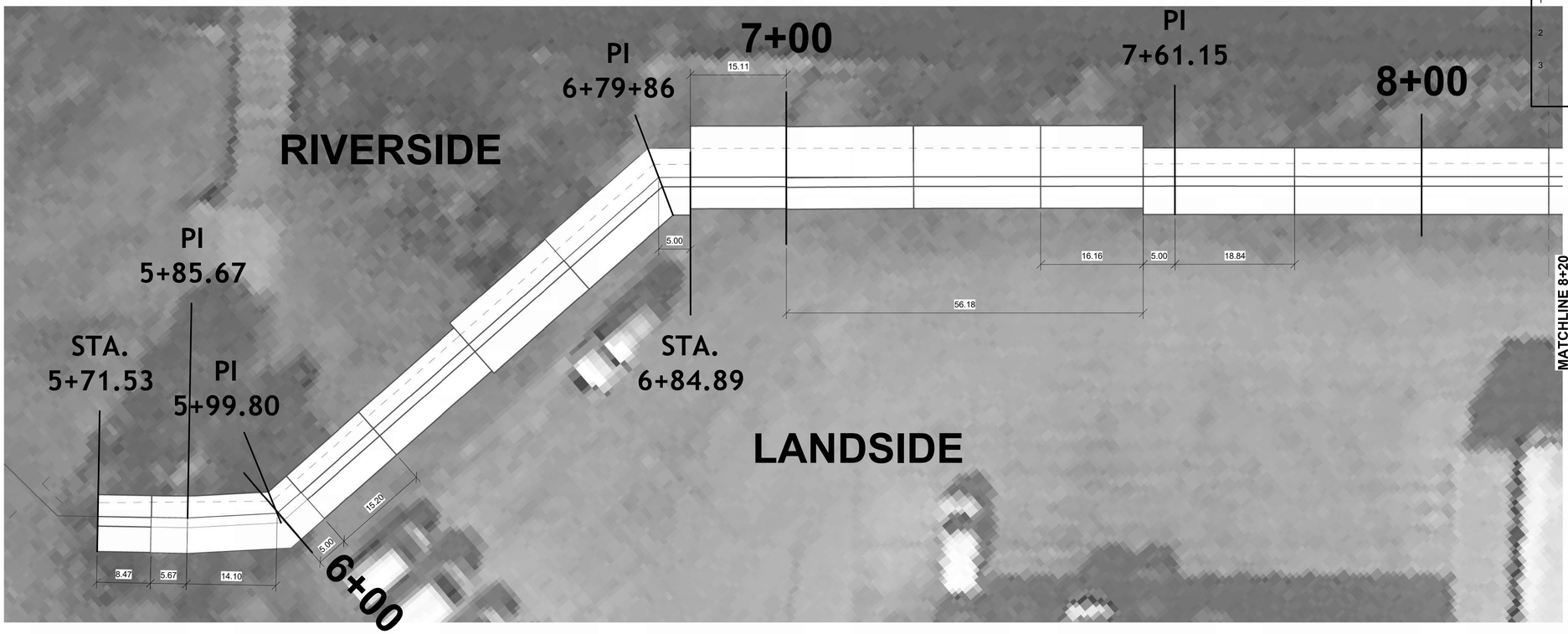
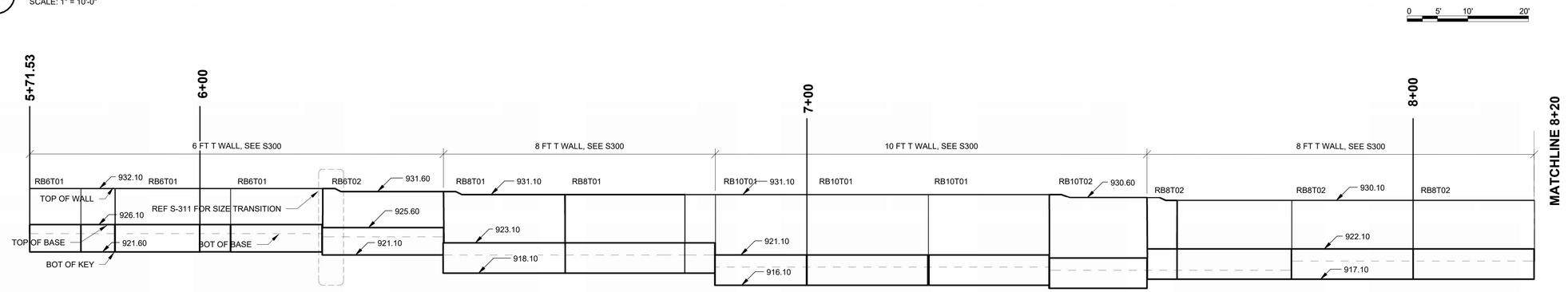


G1 PLAN RB 5+71.53 - 8+20

SCALE: 1" = 10'-0"



A1 RIGHT BANK RIVERSIDE PROFILE

SCALE: 1" = 10'-0"

0 5' 10' 20'

US Army Corps of Engineers ®

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KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

RIGHT BANK LAYOUT
STA 5+71.53 TO STA 8+20

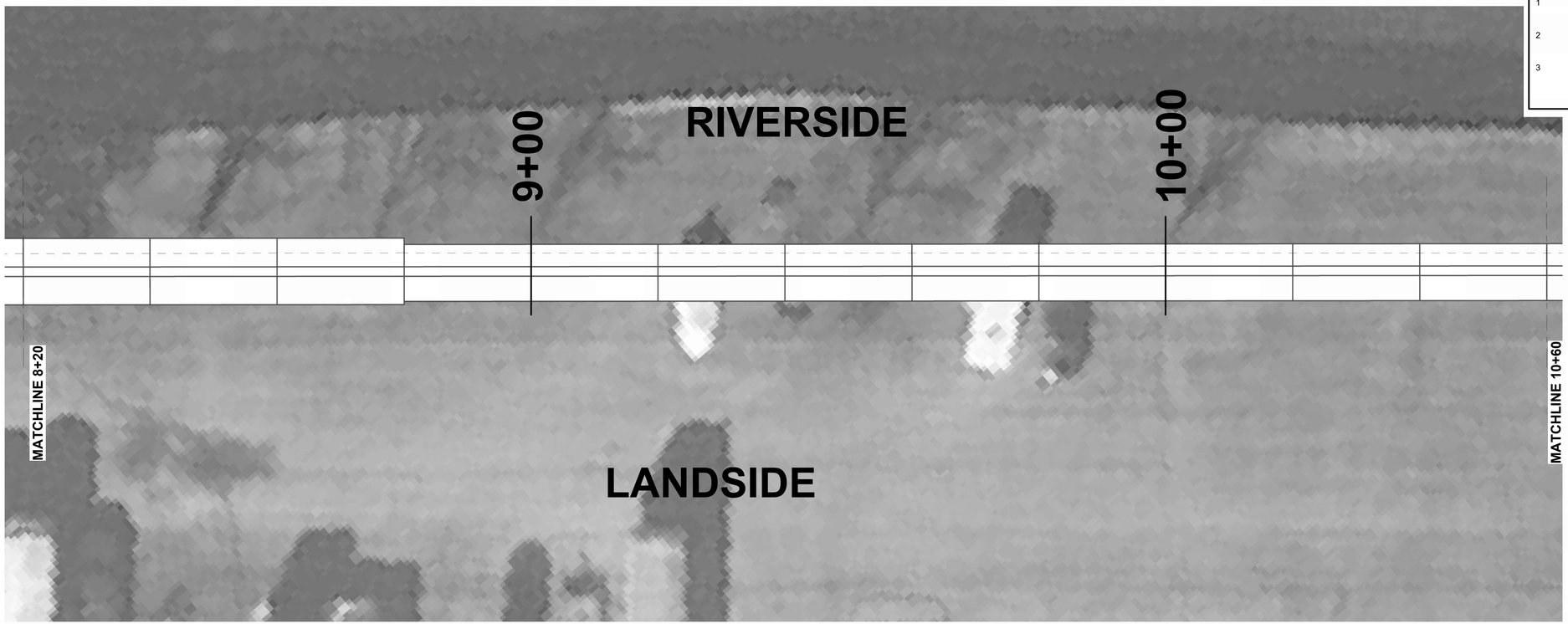
SHEET ID

S150

50%

GENERAL NOTES

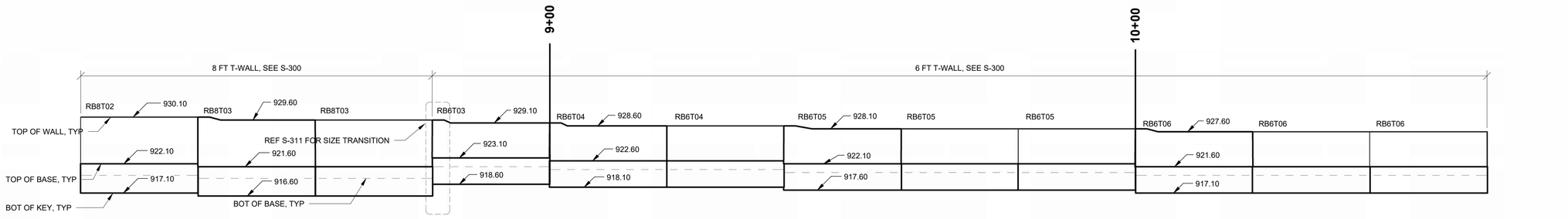
1. SEE S-001 FOR GENERAL NOTES S-300 SHEETS FOR SECTIONS AND S-500 SHEETS FOR TYPICAL DETAILS
2. MONOLITHS ARE 20 FEET IN LENGTH UNLESS NOTED OTHERWISE, SEE S-500 FOR JOINT DETAILS
3. SEE CIVIL SHEETS CS101 - CS107 AND CS121 - CS126 FOR THE CIVIL PLAN AND PROFILE INCLUDING PI DATA



G1 PLAN RB 8+20 - 10+60

SCALE: 1" = 10'-0"

0 5' 10' 20'



A1 RIGHT BANK RIVERSIDE PROFILE

SCALE: 1" = 10'-0"

0 5' 10' 20'

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: J. WESTBROOK
DRAWN BY: J. WESTBROOK
CHECKED BY: P. MULLER
SUBMITTED BY: A. SVITAK
SIZE: ANSI D
ISSUE DATE: MARCH 2026
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.: SEE COVER SHEET
505229_UTC_RVT25_S.RVT

US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

RIGHT BANK LAYOUT
STA 8+20 TO STA 10+60

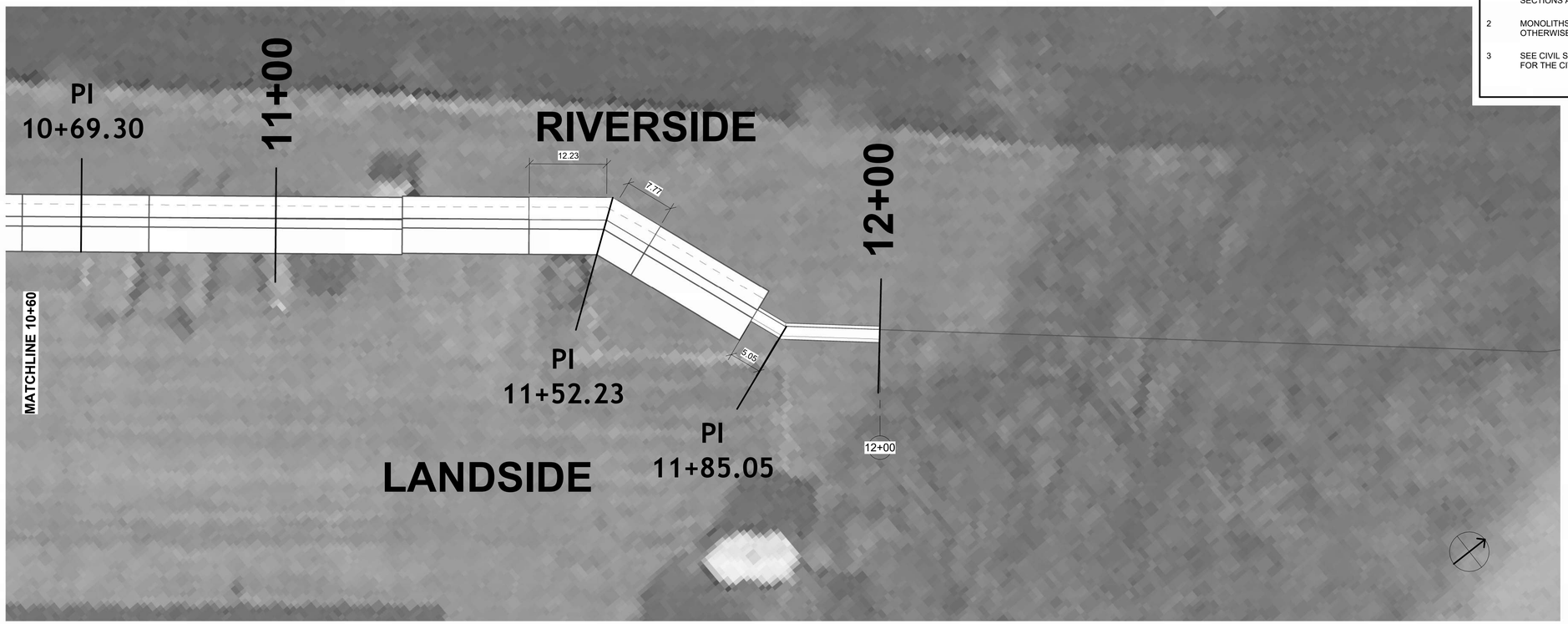
SHEET ID

S151

50%

GENERAL NOTES

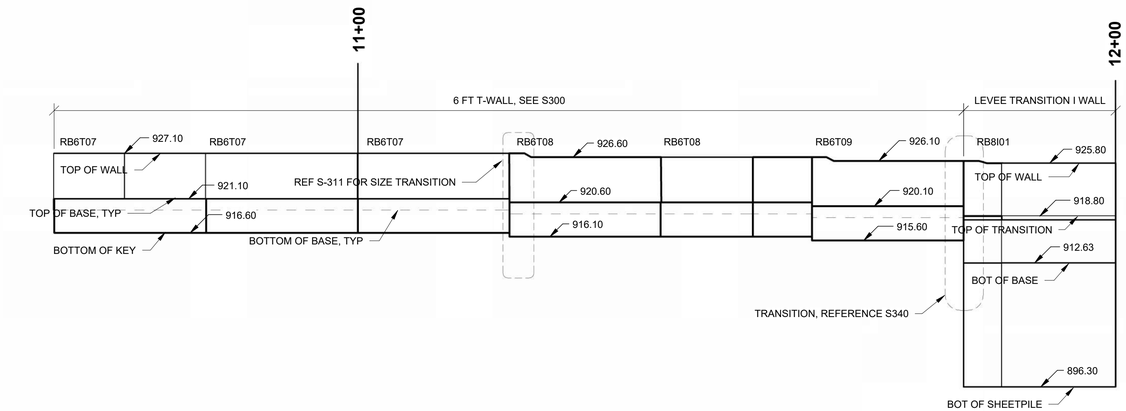
1. SEE S-001 FOR GENERAL NOTES S-300 SHEETS FOR SECTIONS AND S-500 SHEETS FOR TYPICAL DETAILS
2. MONOLITHS ARE 20 FEET IN LENGTH UNLESS NOTED OTHERWISE, SEE S-500 FOR JOINT DETAILS
3. SEE CIVIL SHEETS CS101 - CS107 AND CS121 - CS126 FOR THE CIVIL PLAN AND PROFILE INCLUDING PI DATA



G1 PLAN RB 10+60 - 12+00

SCALE: 1" = 10'-0"

0 5' 10' 20'



A1 RIGHT BANK RIVERSIDE PROFILE

SCALE: 1" = 10'-0"

0 5' 10' 20'

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: J. WESTBROOK
DRAWN BY: J. WESTBROOK
CHECKED BY: P. MULLER
SUBMITTED BY: A. SVITAK
SIZE: ANSI D
ISSUE DATE: MARCH 2026
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US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

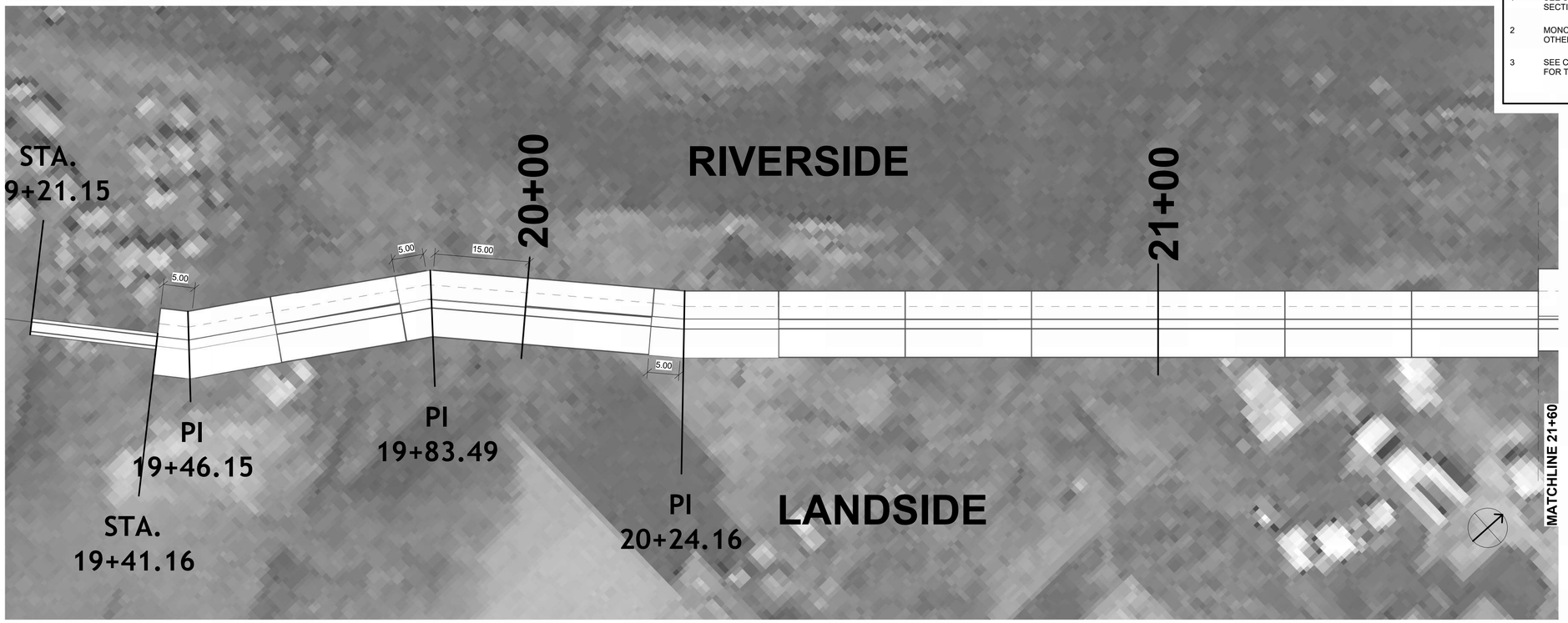
RIGHT BANK LAYOUT
STA 10+60 TO STA 12+00

SHEET ID
S152

50%

GENERAL NOTES

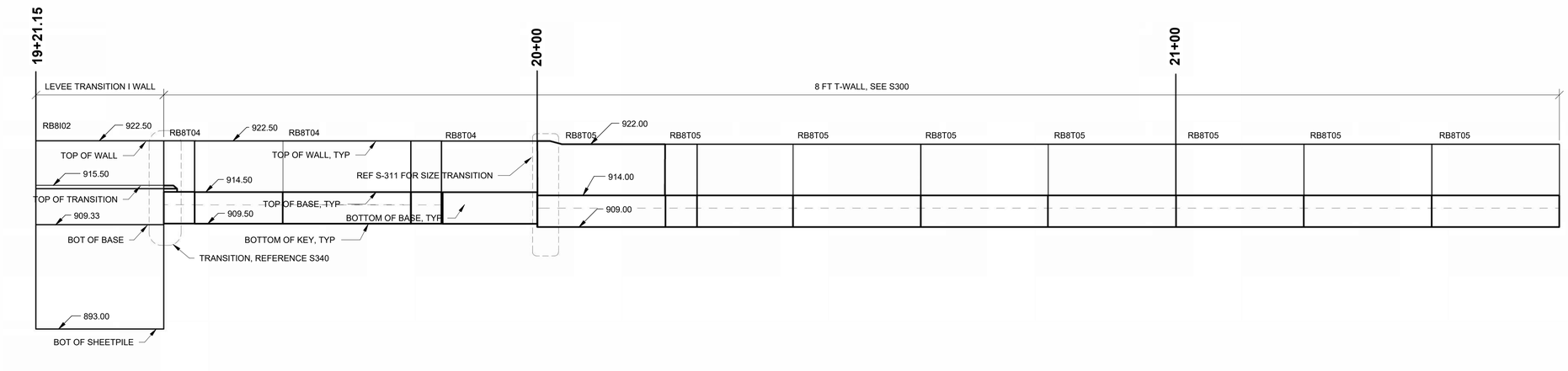
1. SEE S-001 FOR GENERAL NOTES S-300 SHEETS FOR SECTIONS AND S-500 SHEETS FOR TYPICAL DETAILS
2. MONOLITHS ARE 20 FEET IN LENGTH UNLESS NOTED OTHERWISE, SEE S-500 FOR JOINT DETAILS
3. SEE CIVIL SHEETS CS101 - CS107 AND CS121 - CS126 FOR THE CIVIL PLAN AND PROFILE INCLUDING PI DATA



G1 PLAN RB 19+21.15 - 21+60

SCALE: 1" = 10'-0"

0 5' 10' 20'



A1 RIGHT BANK RIVERSIDE PROFILE

SCALE: 1" = 10'-0"

0 5' 10' 20'

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: J. WESTBROOK
DRAWN BY: J. WESTBROOK
CHECKED BY: P. MULLER
SUBMITTED BY: A. SVITAK
SIZE: ANSI D
ISSUE DATE: MARCH 2026
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US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

RIGHT BANK LAYOUT
STA 19+21.15 TO STA 21+60

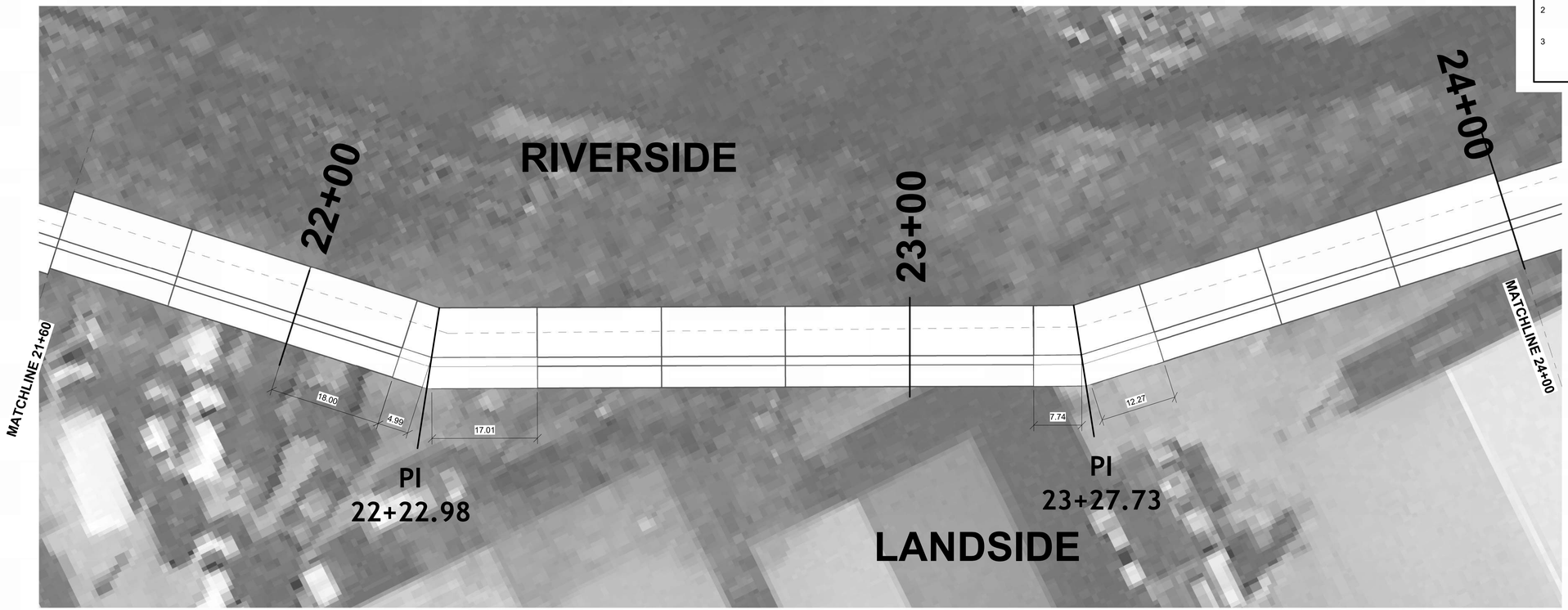
SHEET ID

S153

50%

GENERAL NOTES

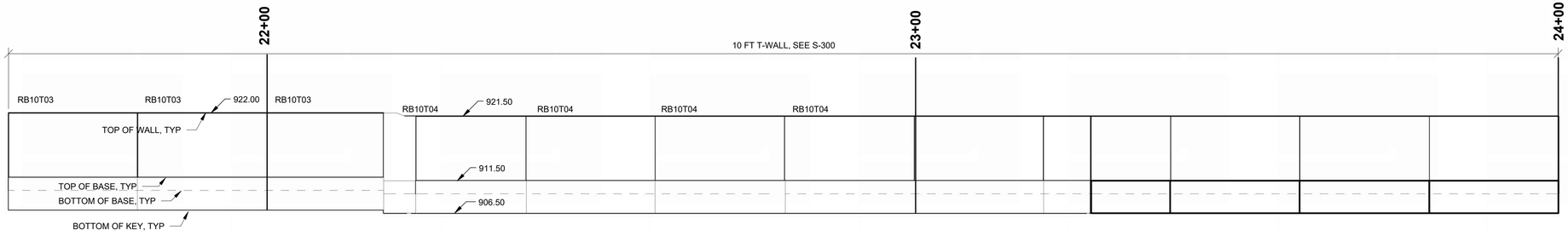
1. SEE S-001 FOR GENERAL NOTES S-300 SHEETS FOR SECTIONS AND S-500 SHEETS FOR TYPICAL DETAILS
2. MONOLITHS ARE 20 FEET IN LENGTH UNLESS NOTED OTHERWISE, SEE S-500 FOR JOINT DETAILS
3. SEE CIVIL SHEETS CS101 - CS107 AND CS121 - CS126 FOR THE CIVIL PLAN AND PROFILE INCLUDING PI DATA



G1 PLAN RB 21+60 - 24+00

SCALE: 1" = 10'-0"

0 5' 10' 20'



A1 RIGHT BANK RIVERSIDE PROFILE

SCALE: 1" = 10'-0"

0 5' 10' 20'

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: J. WESTBROOK
DRAWN BY: J. WESTBROOK
CHECKED BY: P. MULLER
SUBMITTED BY: A. SVITAK
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ISSUE DATE: MARCH 2026
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US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

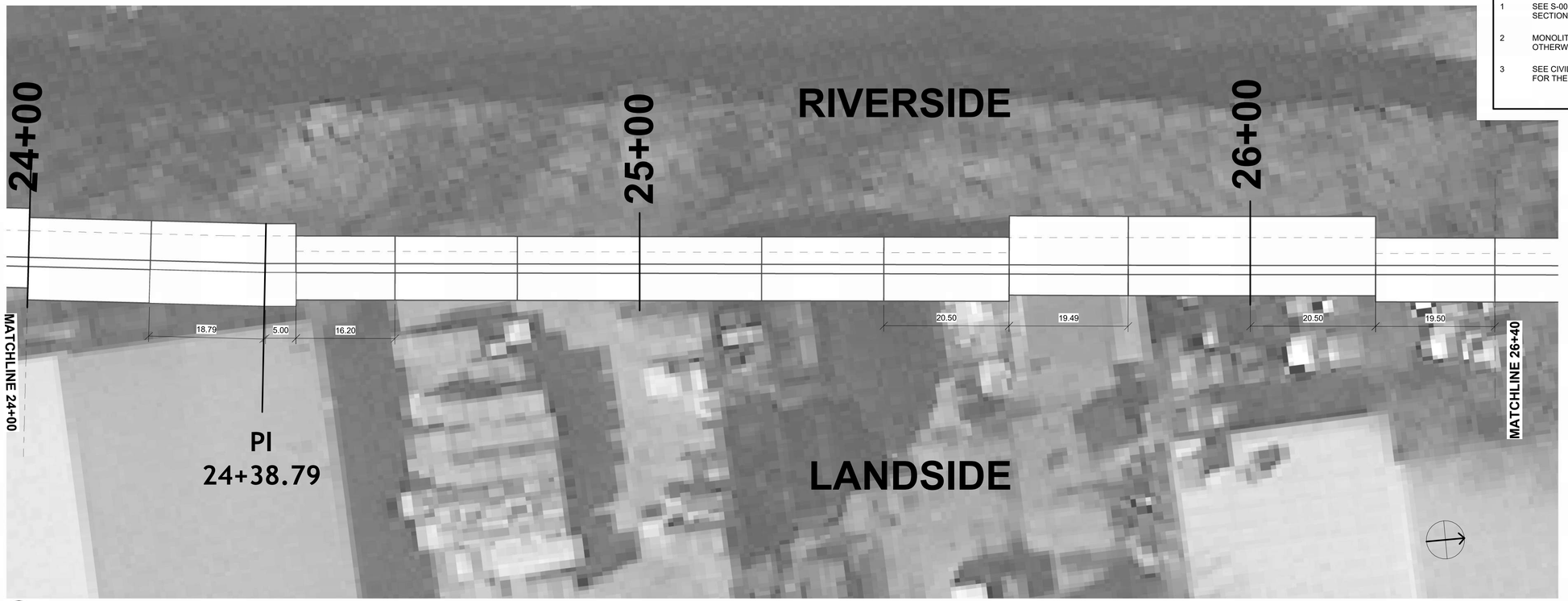
RIGHT BANK LAYOUT
STA 21+60 TO STA 24+00

SHEET ID
S154

50%

GENERAL NOTES

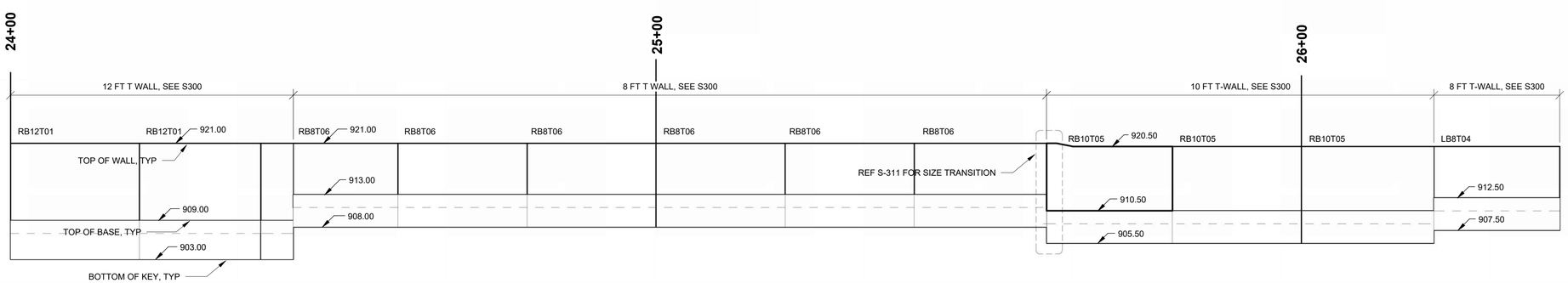
1. SEE S-001 FOR GENERAL NOTES S-300 SHEETS FOR SECTIONS AND S-500 SHEETS FOR TYPICAL DETAILS
2. MONOLITHS ARE 20 FEET IN LENGTH UNLESS NOTED OTHERWISE, SEE S-500 FOR JOINT DETAILS
3. SEE CIVIL SHEETS CS101 - CS107 AND CS121 - CS126 FOR THE CIVIL PLAN AND PROFILE INCLUDING PI DATA



G1 PLAN RB 24+00 - 26+40

SCALE: 1" = 10'-0"

0 5' 10' 20'



A1 RIGHT BANK RIVERSIDE PROFILE

SCALE: 1" = 10'-0"

0 5' 10' 20'

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: J. WESTBROOK
DRAWN BY: J. WESTBROOK
CHECKED BY: P. MULLER
SUBMITTED BY: A. SVITAK
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ISSUE DATE: MARCH 2026
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US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

RIGHT BANK LAYOUT
STA 24+00 TO STA 26+40

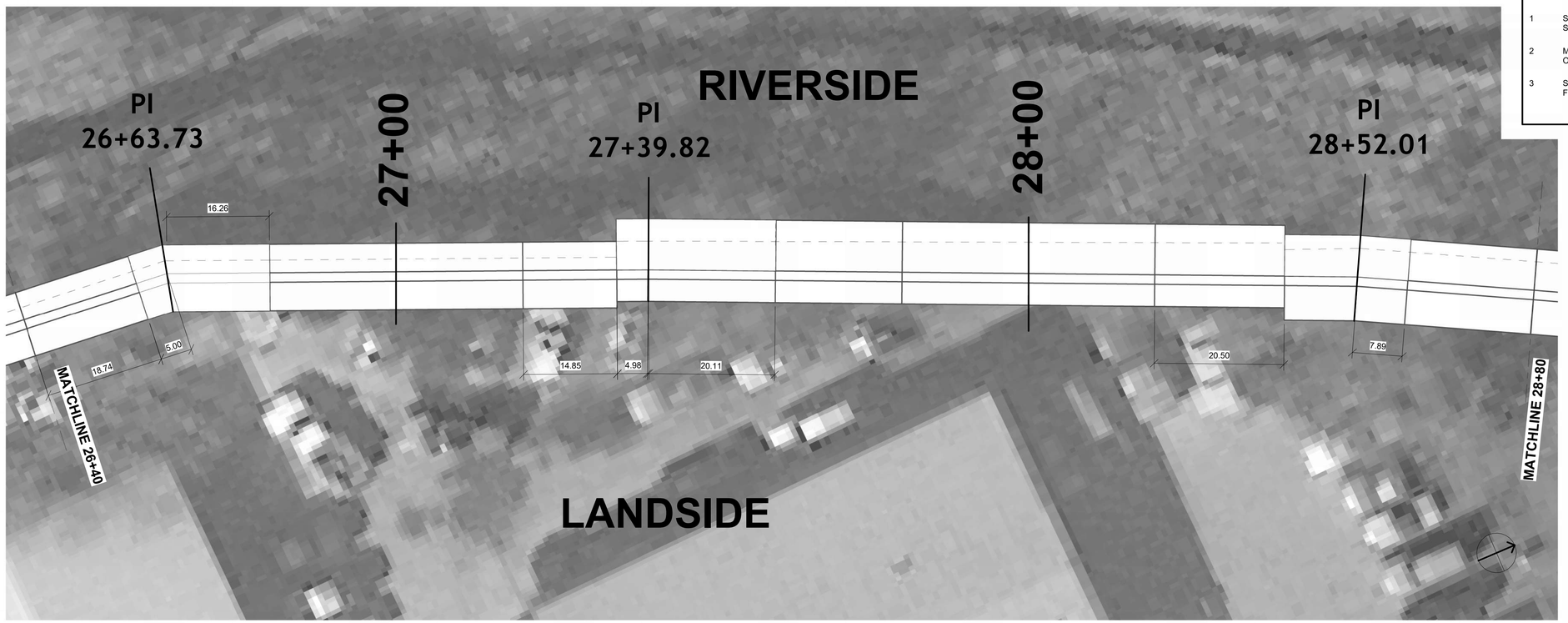
SHEET ID

S155

50%

GENERAL NOTES

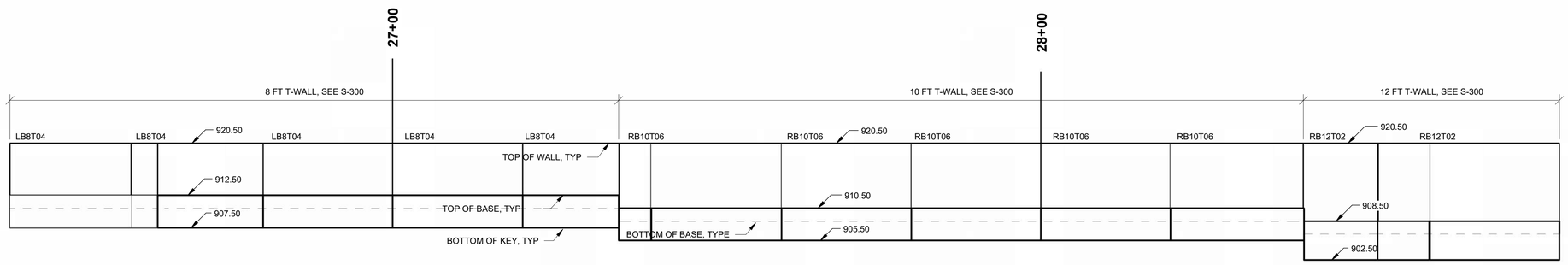
1. SEE S-001 FOR GENERAL NOTES S-300 SHEETS FOR SECTIONS AND S-500 SHEETS FOR TYPICAL DETAILS
2. MONOLITHS ARE 20 FEET IN LENGTH UNLESS NOTED OTHERWISE, SEE S-500 FOR JOINT DETAILS
3. SEE CIVIL SHEETS CS101 - CS107 AND CS121 - CS126 FOR THE CIVIL PLAN AND PROFILE INCLUDING PI DATA



G1 PLAN RB 26+40 - 28+80

SCALE: 1" = 10'-0"

0 5' 10' 20'



A1 RIGHT BANK RIVERSIDE PROFILE

SCALE: 1" = 10'-0"

0 5' 10' 20'

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: J. WESTBROOK
DRAWN BY: J. WESTBROOK
CHECKED BY: P. MULLER
SUBMITTED BY: A. SVITAK
SIZE: ANSI D
505229_UTC_RVT25_S.RVT
ISSUE DATE: MARCH 2025
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US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

RIGHT BANK LAYOUT
STA 26+40 TO STA 28+80

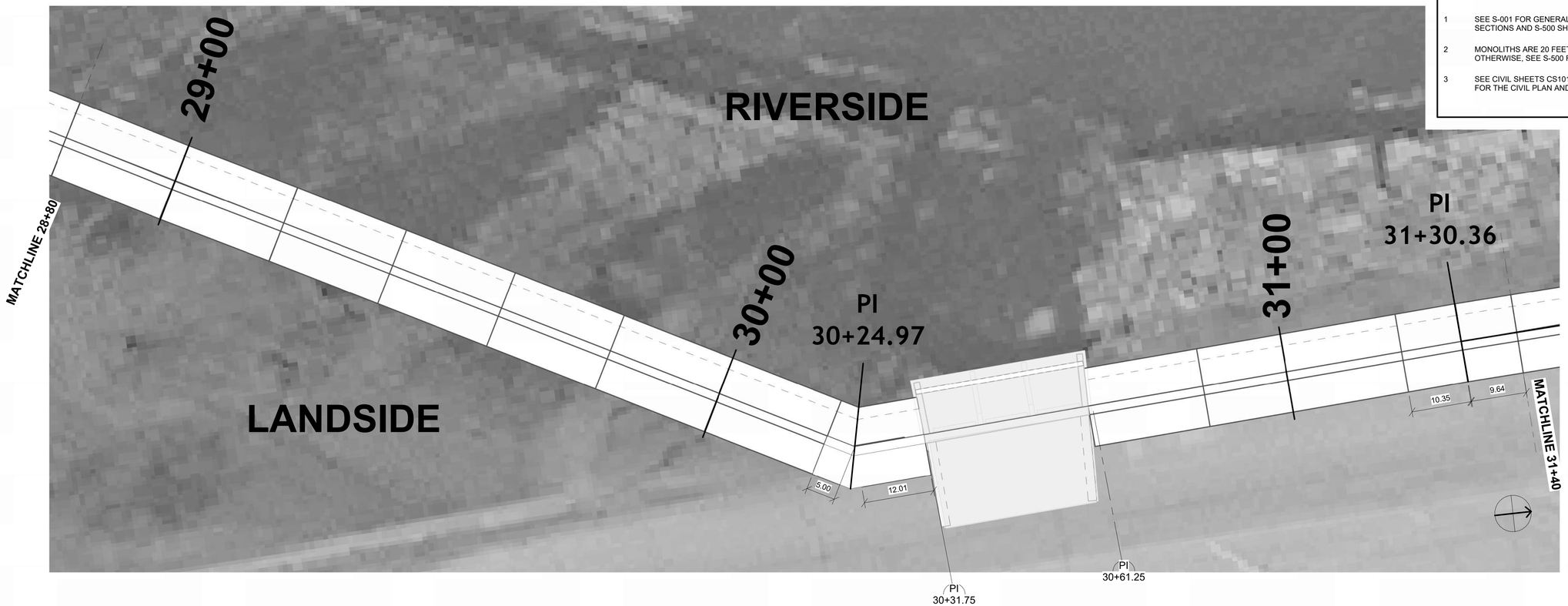
SHEET ID

S156

50%

GENERAL NOTES

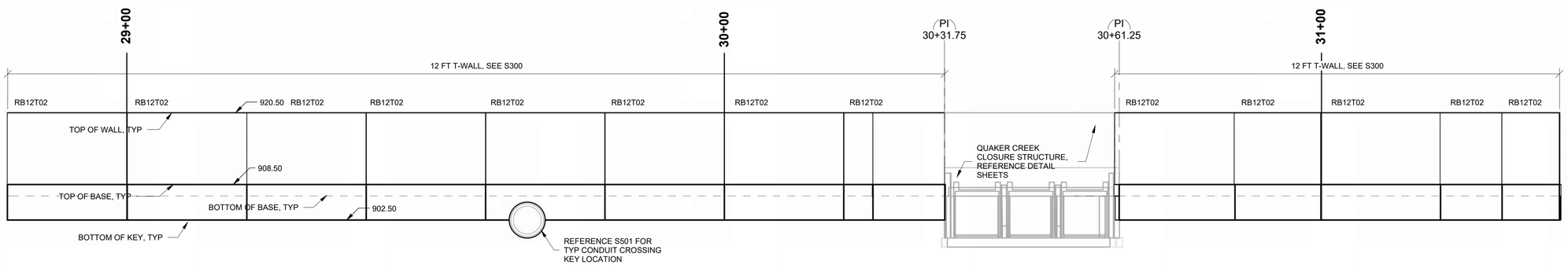
1. SEE S-001 FOR GENERAL NOTES S-300 SHEETS FOR SECTIONS AND S-500 SHEETS FOR TYPICAL DETAILS
2. MONOLITHS ARE 20 FEET IN LENGTH UNLESS NOTED OTHERWISE, SEE S-500 FOR JOINT DETAILS
3. SEE CIVIL SHEETS CS101 - CS107 AND CS121 - CS126 FOR THE CIVIL PLAN AND PROFILE INCLUDING PI DATA



G1 PLAN RB 28+80 - 31+40

SCALE: 1" = 10'-0"

0 5' 10' 20'



A1 RIGHT BANK RIVERSIDE PROFILE RB 28+80 TO 21+40

SCALE: 1" = 10'-0"

0 5' 10' 20'

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

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DRAWN BY: J. WESTBROOK
CHECKED BY: P. MULLER
SUBMITTED BY: A. SVITAK
SIZE: ANSI D

ISSUE DATE: MARCH 2026
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US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

RIGHT BANK LAYOUT
STA 28+80 TO STA 31+40

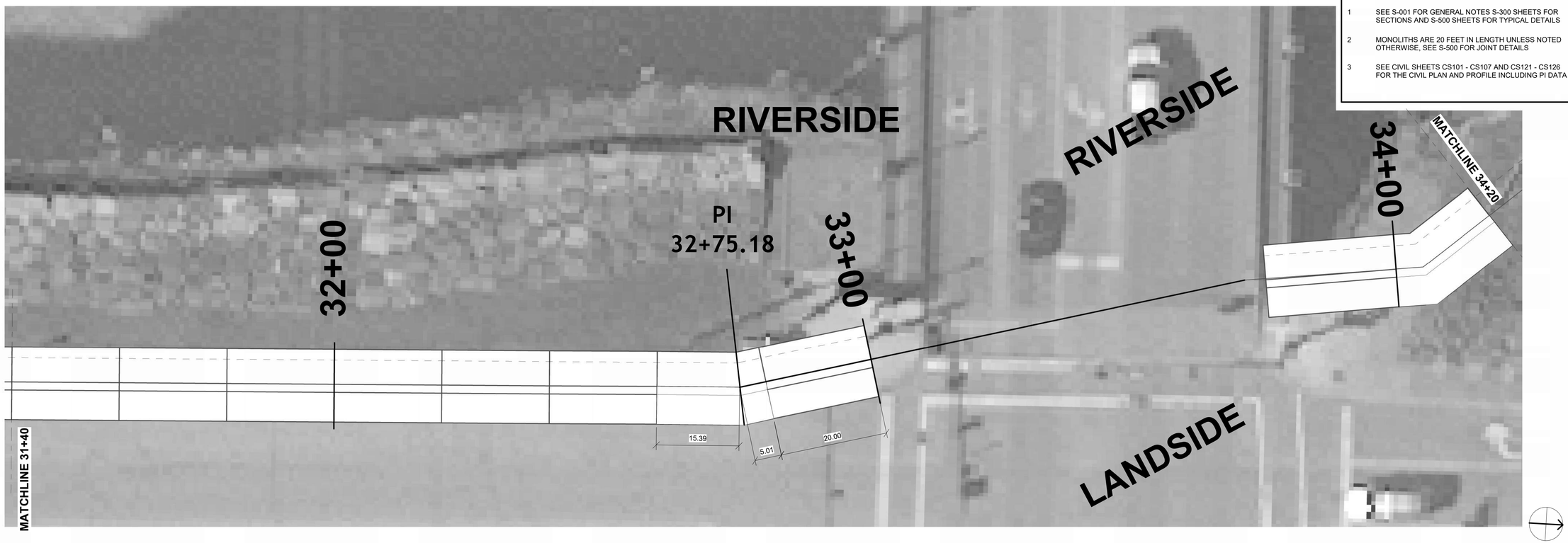
SHEET ID

S157

50%

GENERAL NOTES

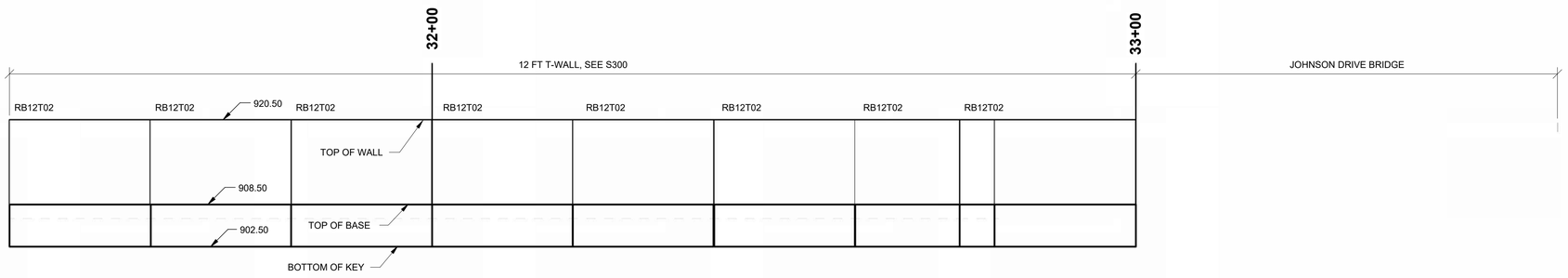
1. SEE S-001 FOR GENERAL NOTES S-300 SHEETS FOR SECTIONS AND S-500 SHEETS FOR TYPICAL DETAILS
2. MONOLITHS ARE 20 FEET IN LENGTH UNLESS NOTED OTHERWISE, SEE S-500 FOR JOINT DETAILS
3. SEE CIVIL SHEETS CS101 - CS107 AND CS121 - CS126 FOR THE CIVIL PLAN AND PROFILE INCLUDING PI DATA



G1 PLAN RB 31+40 - 34+00

SCALE: 1" = 10'-0"

0 5' 10' 20'



A1 RIGHT BANK RIVERSIDE PROFILE

SCALE: 1" = 10'-0"

0 5' 10' 20'

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: J. WESTBROOK
DRAWN BY: J. WESTBROOK
CHECKED BY: P. MULLER
SUBMITTED BY: A. SVITAK
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ISSUE DATE: MARCH 2026
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US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

RIGHT BANK LAYOUT
STA 31+40 TO STA 34+00

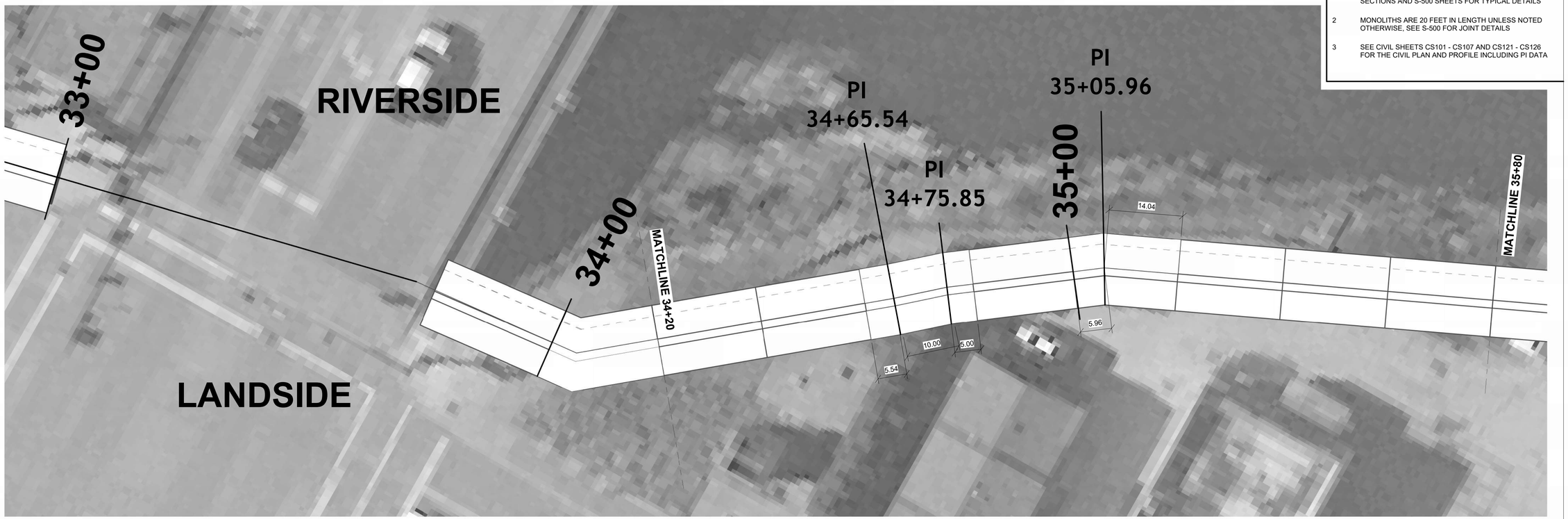
SHEET ID

S158

50%

GENERAL NOTES

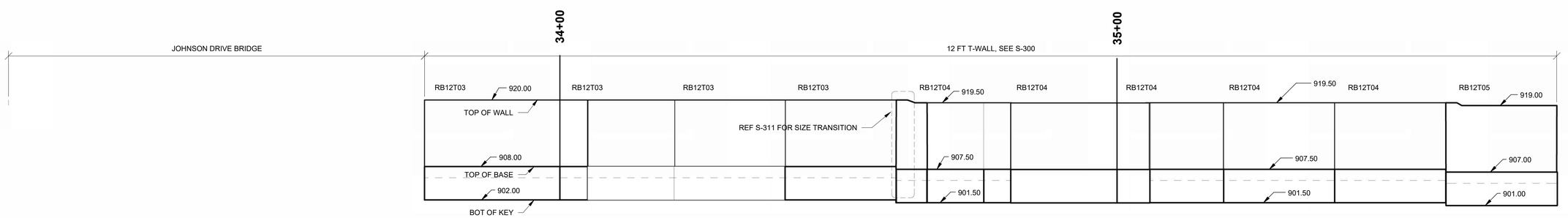
1. SEE S-001 FOR GENERAL NOTES S-300 SHEETS FOR SECTIONS AND S-500 SHEETS FOR TYPICAL DETAILS
2. MONOLITHS ARE 20 FEET IN LENGTH UNLESS NOTED OTHERWISE, SEE S-500 FOR JOINT DETAILS
3. SEE CIVIL SHEETS CS101 - CS107 AND CS121 - CS126 FOR THE CIVIL PLAN AND PROFILE INCLUDING PI DATA



G1 PLAN RB 33+00 - 35-80

SCALE: 1" = 10'-0"

0 5' 10' 20'



A1 RIGHT BANK RIVERSIDE PROFILE

SCALE: 1" = 10'-0"

0 5' 10' 20'

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: J.WESTBROOK
DRAWN BY: J. WESTBROOK
CHECKED BY: P. MULLER
SUBMITTED BY: A. SVITAK
SIZE: ANSI D
ISSUE DATE: MARCH 2026
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US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

RIGHT BANK LAYOUT
STA 33+00 TO STA 35+80

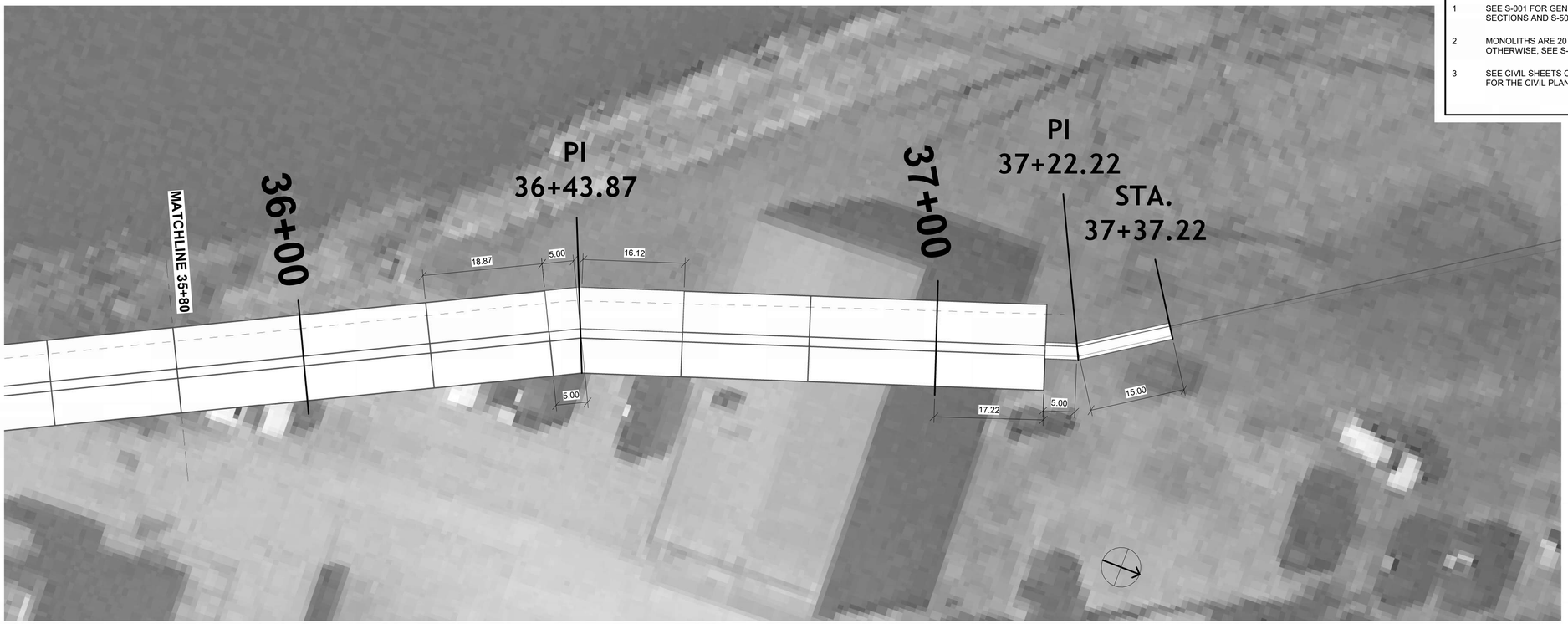
SHEET ID

S159

50%

GENERAL NOTES

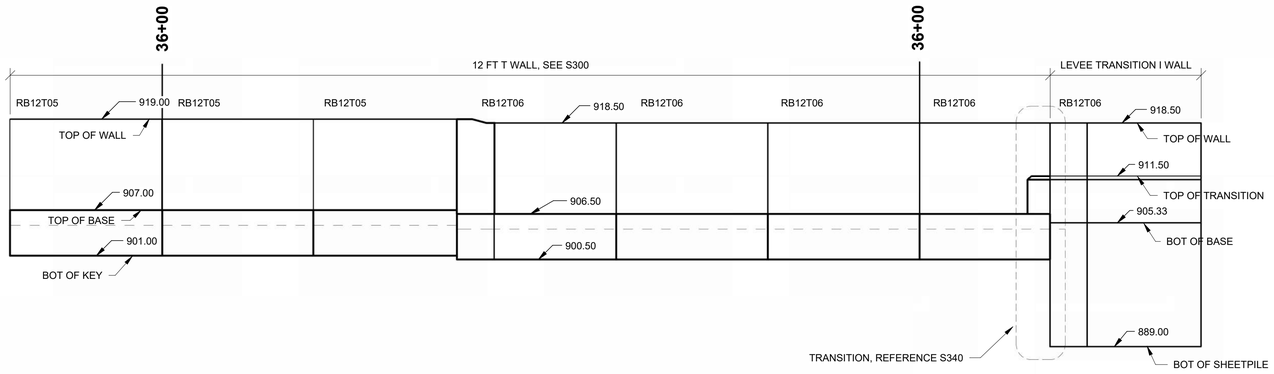
1. SEE S-001 FOR GENERAL NOTES S-300 SHEETS FOR SECTIONS AND S-500 SHEETS FOR TYPICAL DETAILS
2. MONOLITHS ARE 20 FEET IN LENGTH UNLESS NOTED OTHERWISE, SEE S-500 FOR JOINT DETAILS
3. SEE CIVIL SHEETS CS101 - CS107 AND CS121 - CS126 FOR THE CIVIL PLAN AND PROFILE INCLUDING PI DATA



G1 PLAN RB 35+60 - 37+37.22

SCALE: 1" = 10'-0"

0 5' 10' 20'



A1 RIGHT BANK RIVERSIDE PROFILE

SCALE: 1" = 10'-0"

0 5' 10' 20'

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: J. WESTBROOK
DRAWN BY: J. WESTBROOK
CHECKED BY: P. MULLER
SUBMITTED BY: A. SVITAK
SIZE: ANSI D
ISSUE DATE: MARCH 2026
SOLICITATION NO.: SEE COVER SHEET
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US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

RIGHT BANK LAYOUT
STA 35+60 TO STA 37+37.22

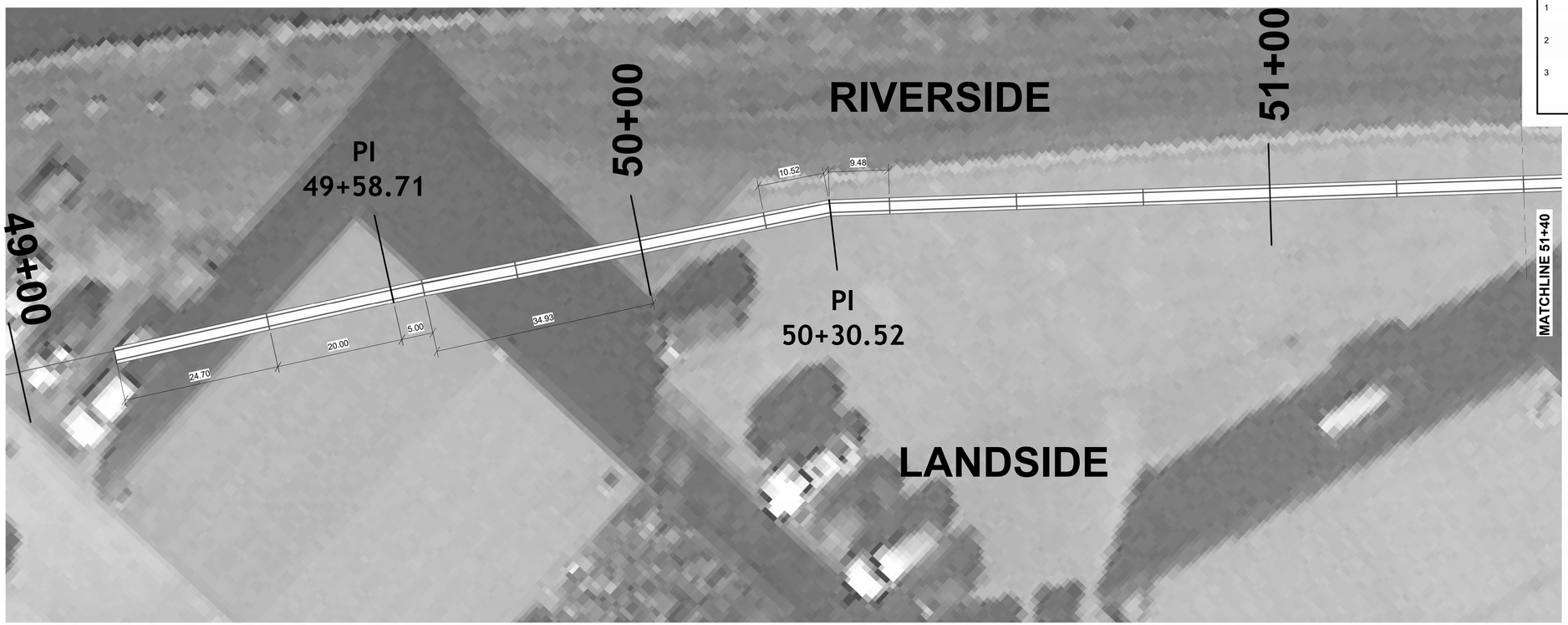
SHEET ID

S160

50%

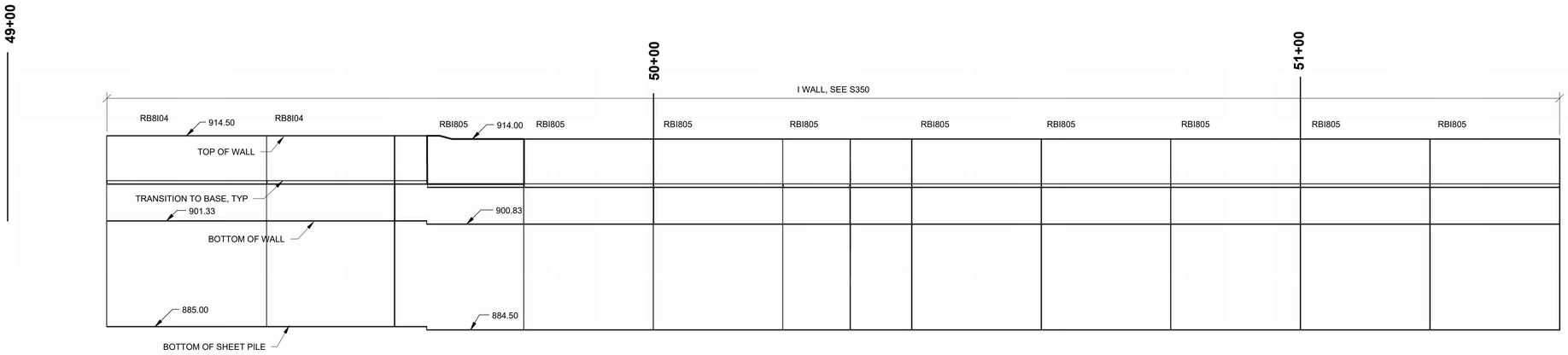
GENERAL NOTES

1. SEE S-001 FOR GENERAL NOTES S-300 SHEETS FOR SECTIONS AND S-500 SHEETS FOR TYPICAL DETAILS
2. MONOLITHS ARE 20 FEET IN LENGTH UNLESS NOTED OTHERWISE, SEE S-500 FOR JOINT DETAILS
3. SEE CIVIL SHEETS CS101 - CS107 AND CS121 - CS126 FOR THE CIVIL PLAN AND PROFILE INCLUDING PI DATA



G1 PLAN RB 49+00 - 51+40
SCALE: 1" = 10'-0"

0 5' 10' 20'



1 RB 49+55 - 50+30.5
SCALE: 1" = 10'-0"

2 RB 50+30 - 51+60
SCALE: 1" = 10'-0"

A1 RIGHT BANK RIVERSIDE PROFILE
SCALE: 1" = 10'-0"

0 5' 10' 20'

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: Designer
DRAWN BY: Author
CHECKED BY: Checker
SUBMITTED BY: A. SVITAK
SIZE: ANSI D
ISSUE DATE: MARCH 2026
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.: SEE COVER SHEET
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US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

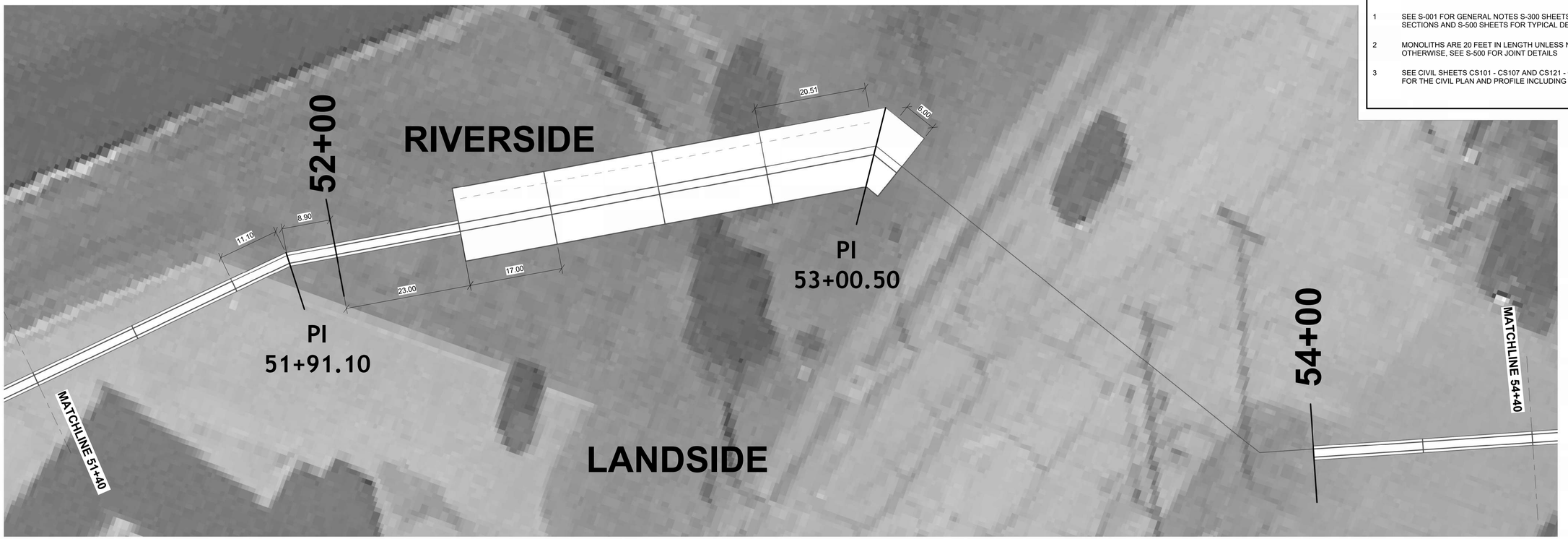
RIGHT BANK LAYOUT
STA 49+00 TO STA 51+40

SHEET ID
S161

50%

GENERAL NOTES

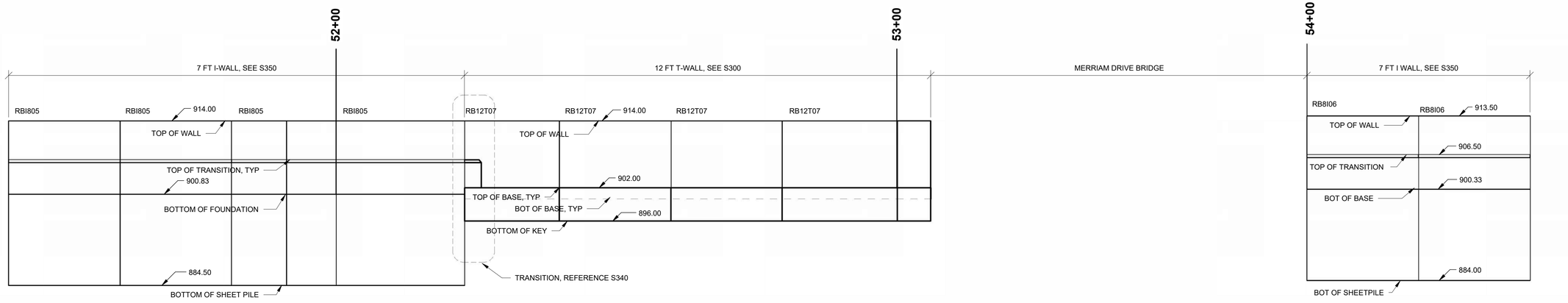
1. SEE S-001 FOR GENERAL NOTES S-300 SHEETS FOR SECTIONS AND S-500 SHEETS FOR TYPICAL DETAILS
2. MONOLITHS ARE 20 FEET IN LENGTH UNLESS NOTED OTHERWISE, SEE S-500 FOR JOINT DETAILS
3. SEE CIVIL SHEETS CS101 - CS107 AND CS121 - CS126 FOR THE CIVIL PLAN AND PROFILE INCLUDING PI DATA



G1 PLAN RB 51+40 - 54+40

SCALE: 1" = 10'-0"

0 5' 10' 20'



A1 RIGHT BANK RIVERSIDE PROFILE

SCALE: 1" = 10'-0"

0 5' 10' 20'

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: Designer
DRAWN BY: Author
CHECKED BY: Checker
SUBMITTED BY: A. SVITAK
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KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

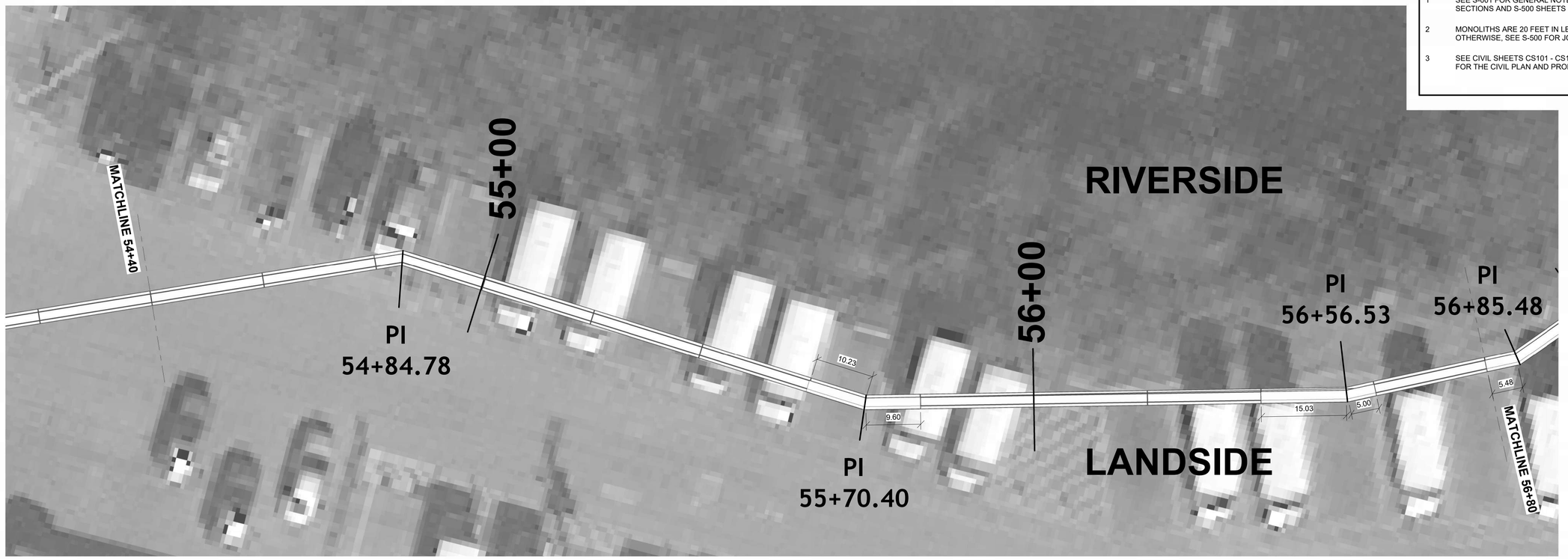
RIGHT BANK LAYOUT
STA 51+40 TO STA 54+40

SHEET ID
S162

50%

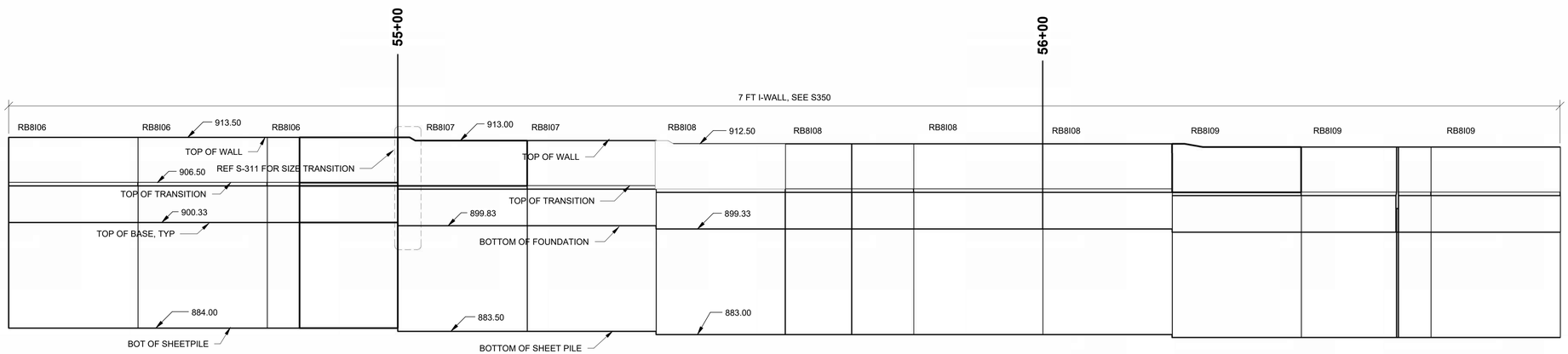
GENERAL NOTES

1. SEE S-001 FOR GENERAL NOTES S-300 SHEETS FOR SECTIONS AND S-500 SHEETS FOR TYPICAL DETAILS
2. MONOLITHS ARE 20 FEET IN LENGTH UNLESS NOTED OTHERWISE, SEE S-500 FOR JOINT DETAILS
3. SEE CIVIL SHEETS CS101 - CS107 AND CS121 - CS126 FOR THE CIVIL PLAN AND PROFILE INCLUDING PI DATA



G1 PLAN RB 54+40 - 56+80
SCALE: 1" = 10'-0"

0 5' 10' 20'



A1 RIGHT BANK RIVERSIDE PROFILE
SCALE: 1" = 10'-0"

0 5' 10' 20'

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: J. WESTBROOK
DRAWN BY: J. WESTBROOK
CHECKED BY: P. MULLER
SUBMITTED BY: A. SVITAK
SIZE: ANSI D
ISSUE DATE: MARCH 2026
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.: SEE COVER SHEET
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US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

RIGHT BANK LAYOUT
STA 54+40 TO STA 56+80

SHEET ID
S163

50%

GENERAL NOTES

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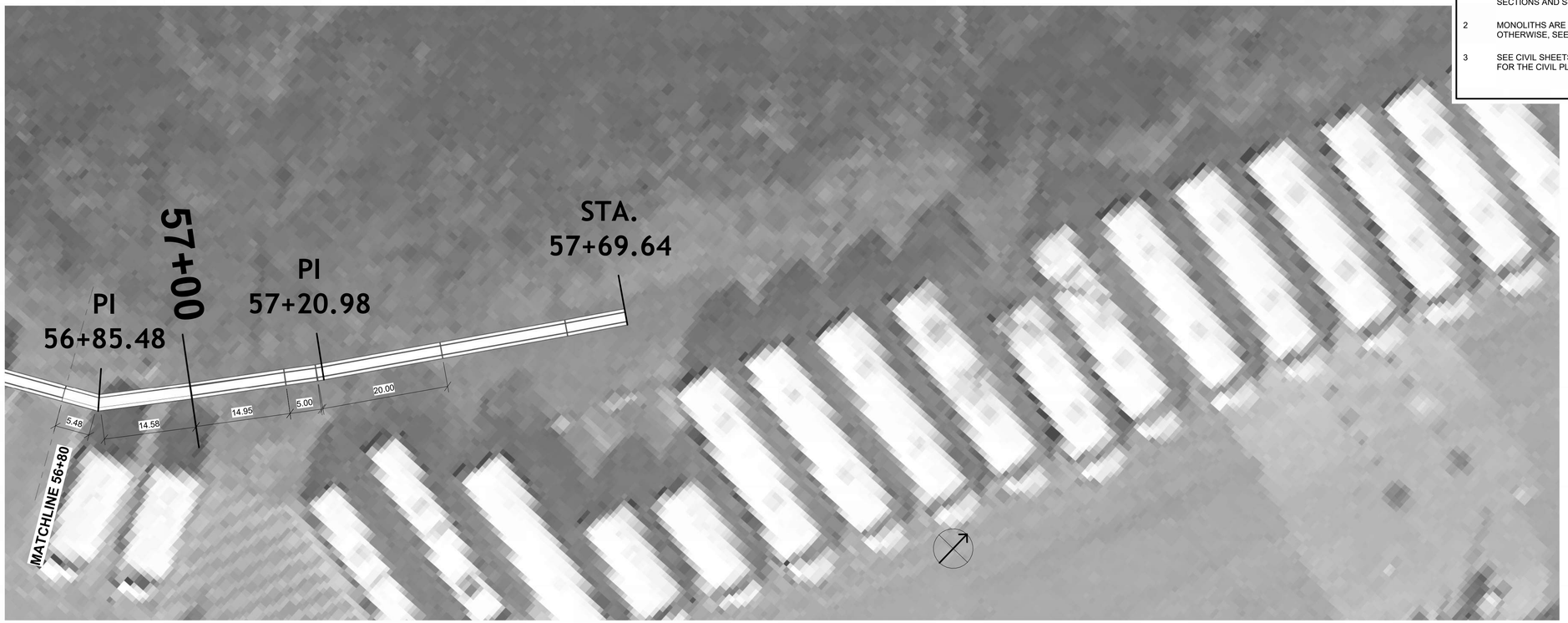
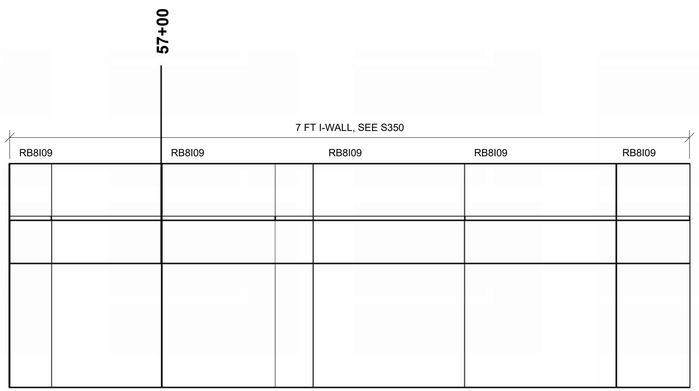


G1 PLAN RB 55+80 - 57+60
SCALE: 1" = 10'-0"

0 5' 10' 20'



A1 RIGHT BANK RIVERSIDE PROFILE
SCALE: 1" = 10'-0"

0 5' 10' 20'

US Army Corps of Engineers ®

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FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
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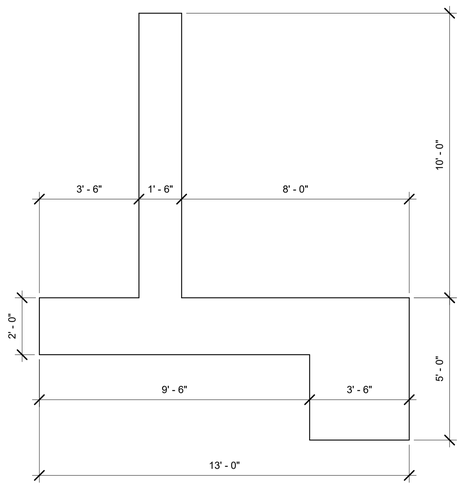
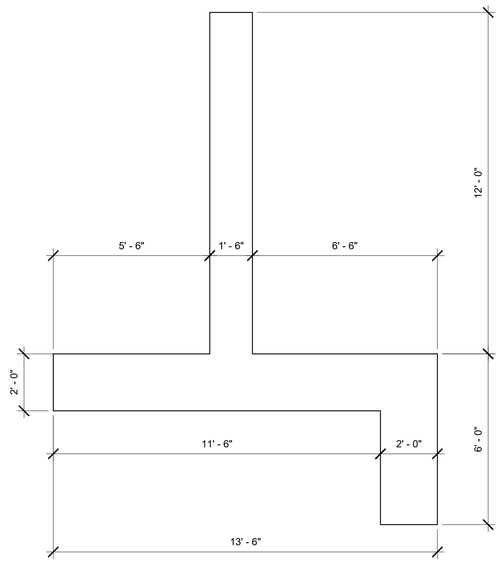
RIGHT BANK LAYOUT
STA 55+80 TO STA 57+60

SHEET ID
S164

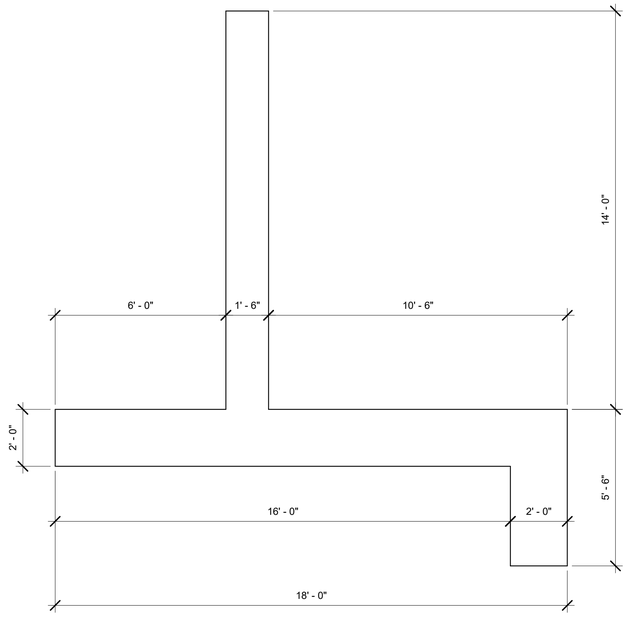
50%



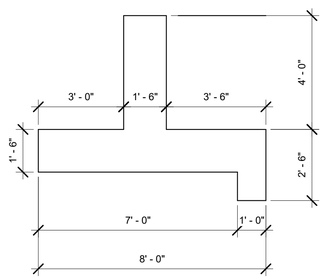
H1 10 FT TWALL
SCALE: 3/8" = 1'-0"



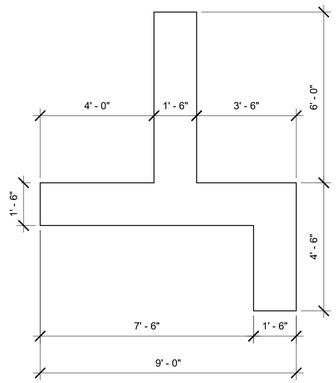
H7 12 FT TWALL
SCALE: 3/8" = 1'-0"



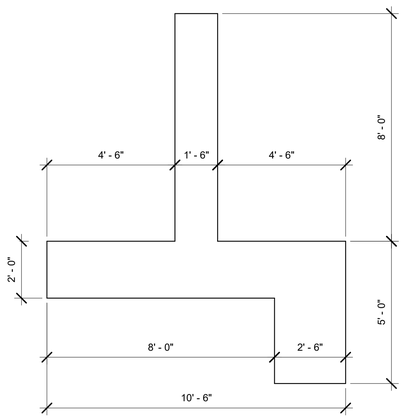
H14 14 FT TWALL
SCALE: 3/8" = 1'-0"



A1 4 FT TWALL
SCALE: 3/8" = 1'-0"



A7 6 FT TWALL
SCALE: 3/8" = 1'-0"



A14 8 FT TWALL
SCALE: 3/8" = 1'-0"

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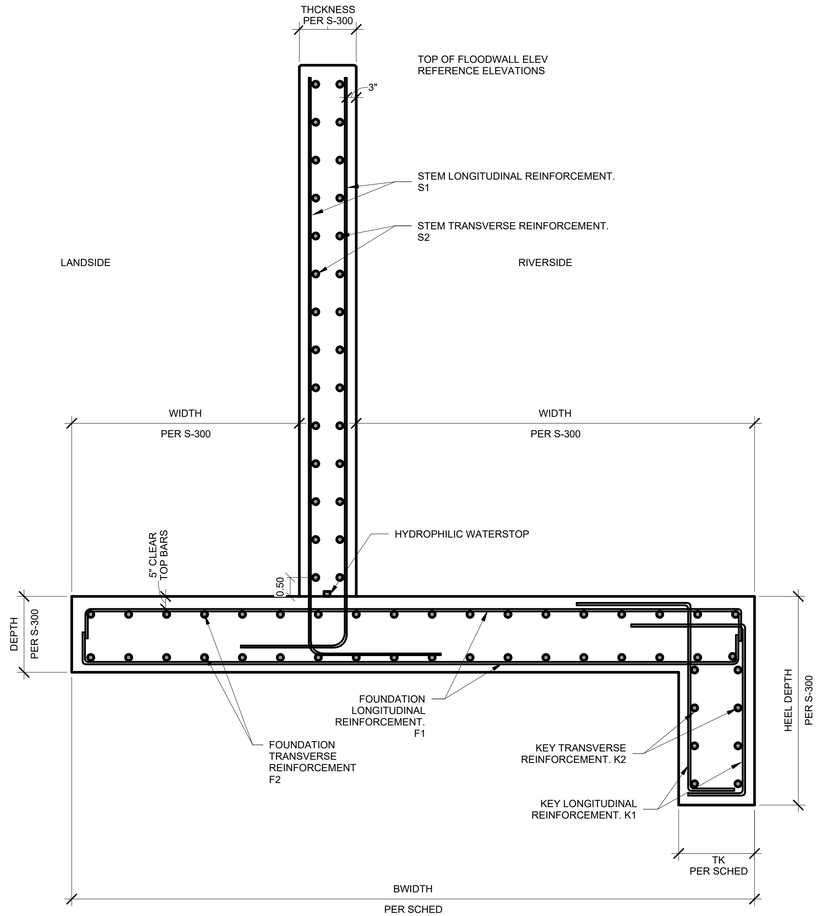
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

TYPICAL T WALL SECTIONS

SHEET ID
S300

50%



A1 FLOODWALL TYP CROSS SECTION

SCALE: 1/2" = 1'-0"

FLOODWALL REINFORCEMENT SCHEDULE

	STEM REINFORCEMENT				BASE REINFORCEMENT				KEY REINFORCEMENT			
T-WALL	LONGITUDINAL BAR		TRANSVERSE BAR		LONGITUDINAL BAR		TRANSVERSE BAR		LONGITUDINAL BAR		TRANSVERSE BAR	
HEIGHT OF WALL	LONG BAR SIZE S1	LONG BAR SPACING	TRANS BAR SIZE S2	TRANS BAR SPACING	LONG BAR SIZE F1	LONG BAR SPACING	TRANS BAR SIZE F2	TRANS BAR SPACING	LONG BAR SIZE K1	LONG BAR SPACING	TRANS BAR SIZE K2	TRANS BAR SPACING
4' - 0"	#8	1' - 0"	#6	1' - 0"	#8	1' - 0"	#6	1' - 0"	#8	1' - 0"	#8	1' - 0"
6' - 0"	#8	1' - 0"	#6	1' - 0"	#8	1' - 0"	#6	1' - 0"	#8	1' - 0"	#8	1' - 0"
8' - 0"	#8	1' - 0"	#6	1' - 0"	#8	1' - 0"	#6	1' - 0"	#8	1' - 0"	#8	1' - 0"
10' - 0"	#8	1' - 0"	#6	1' - 0"	#8	1' - 0"	#6	1' - 0"	#8	1' - 0"	#8	1' - 0"
12' - 0"	#8	1' - 0"	#6	1' - 0"	#8	1' - 0"	#6	1' - 0"	#8	1' - 0"	#8	1' - 0"

US Army Corps of Engineers ®

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CONTRACT NO.:
SEE COVER SHEET

DESIGNED BY:
L. WESTBROOK
DRAWN BY:
J. WESTBROOK
CHECKED BY:
P. MULLER
SUBMITTED BY:
A. SVITAK
SIZE:
ANSI D
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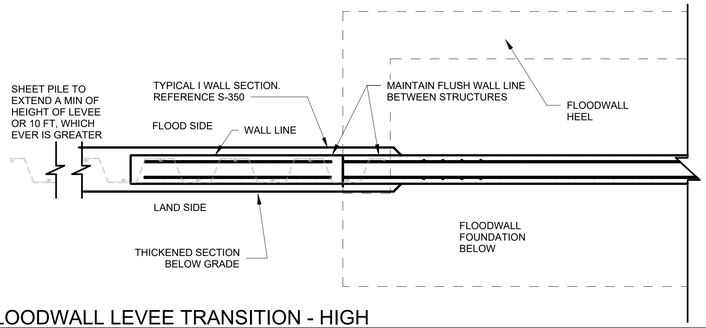
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

TYPICAL T WALL SECTIONS

SHEET ID

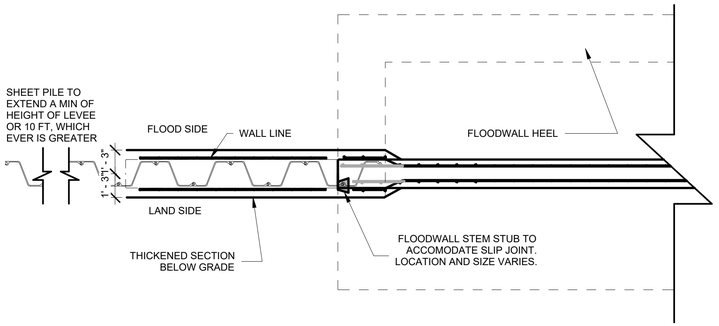
S301

50%



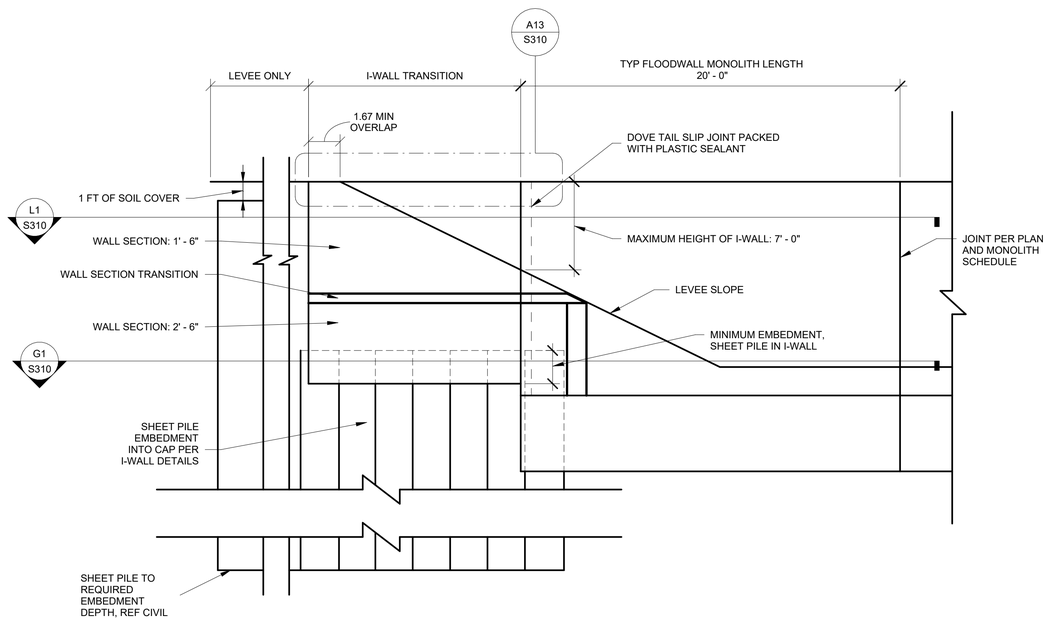
L1 FLOODWALL LEVEE TRANSITION - HIGH

SCALE: 1/4" = 1'-0"



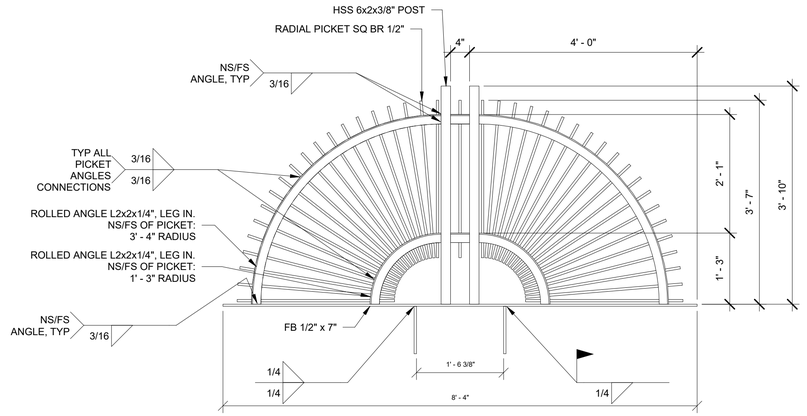
G1 FLOODWALL LEVEE TRANSITION - LOW

SCALE: 1/4" = 1'-0"



A1 FLOODWALL TO LEVEE TRANSITION

SCALE: 1/4" = 1'-0"



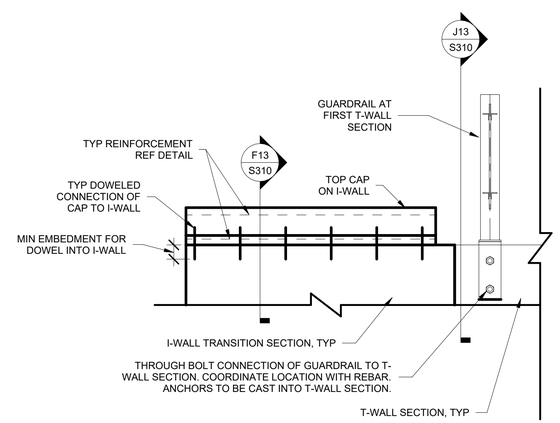
NOTES:
1. GUARDRAIL SYMETRICAL ABOUT CENTER OF T-WALL STEM.
2. GUARDRAIL TO BE HOT-DIP GALVANIZED, PROVIDE WEEP HOLES NEAR THE BOTTOM OF THE HSS POSTS FOR DRAINAGE.
3. ONE BRACKET TO BE FIELD WELDED AFTER THROUGH BOLT CONNECTION MADE IN THE FIELD.

J13 T-WALL GUARDRAIL SECTION

SCALE: 3/4" = 1'-0"

F13 I-WALL CAP CROSS SECTION

SCALE: 1" = 1'-0"



A13 I-WALL CAP DETAIL

SCALE: 1/2" = 1'-0"

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UPPER TURKEY CREEK
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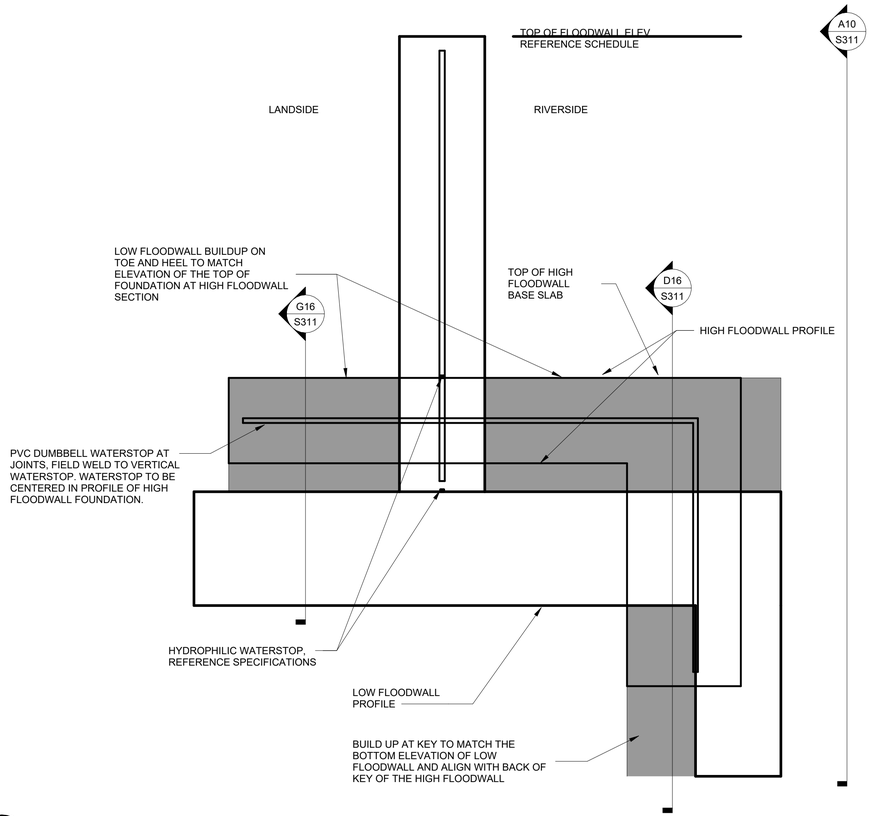
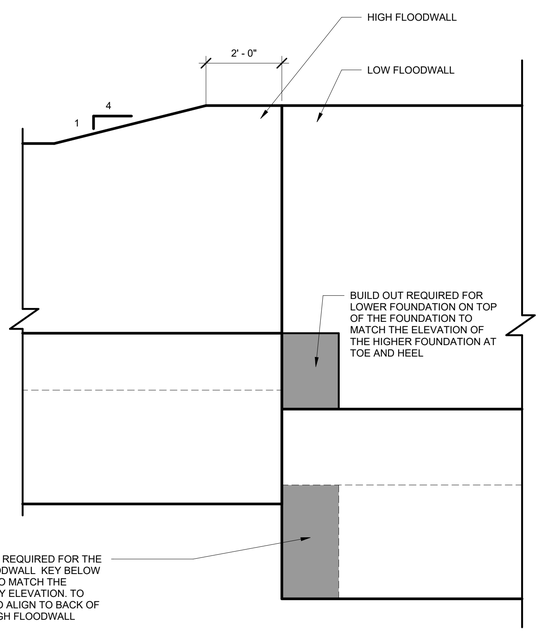
TYPICAL STRUCTURAL DETAILS
LEVEE TO FLOODWALL TRANSITION DETAILS

SHEET ID
S310

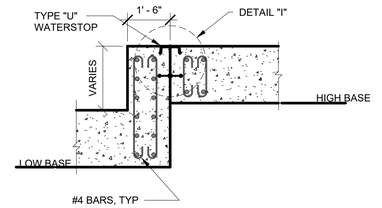
50%



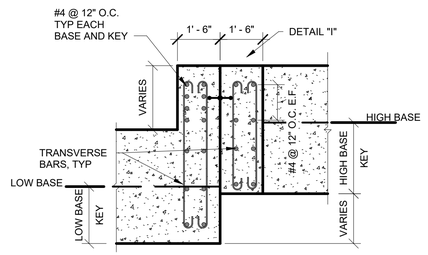
A1 FLOODWALL SIZE TRANSITION
SCALE: 3/4" = 1'-0"



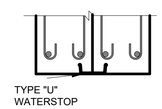
A10 FLOODWALL SIZE TRANSITION ELEV FRONT
SCALE: 1/2" = 1'-0"



G16 TRANSITION SECTION AT TOE
SCALE: 3/8" = 1'-0"



D16 TRANSITION SECTION AT KEY
SCALE: 3/8" = 1'-0"



A16 TRANSITION DETAIL AT U-SHAPE
SCALE: 1/2" = 1'-0"

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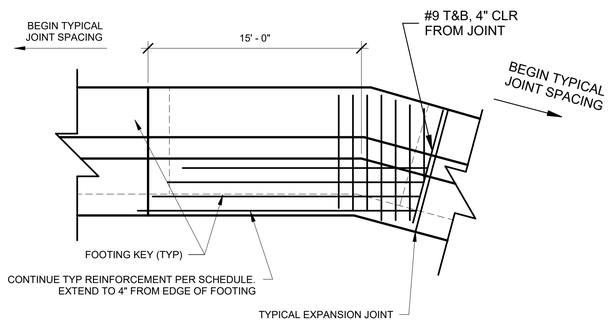
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

TYPICAL STRUCTURAL DETAILS
TYPICAL FLOODWALL SECTION TRANSITIONS

SHEET ID
S311

50%



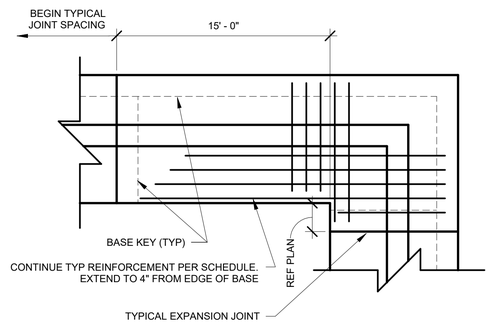
< 45 DEGREES

NOTES:

1. REFER TO REINFORCEMENT DETAILS AND SCHEDULE FOR LONGITUDINAL AND TRANSVERSE WALL REINFORCEMENT AT CORNERS.
2. CHANGES OF ALIGNMENT LESS THAN 10 DEGREES WITHIN A SINGLE MONOLITH SHALL BE TREATED AS A TYPICAL STRAIGHT RUN JOINT.

A1 TYP CORNER ≤ 45 DEGREES

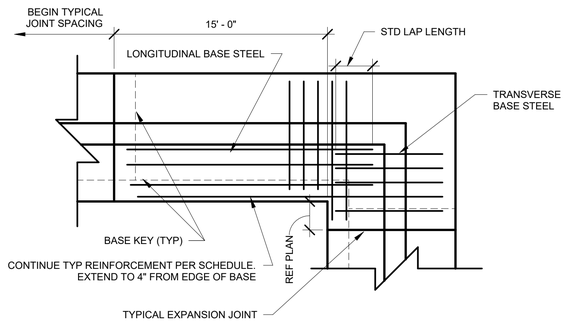
SCALE: 3/16" = 1'-0"



> 45 DEGREES

A9 TYP CORNER DETAIL > 45 DEGREES

SCALE: 3/16" = 1'-0"



> 45 DEGREES

A15 TYP CORNER DETAIL GT 45 DEG OUT

SCALE: 3/16" = 1'-0"

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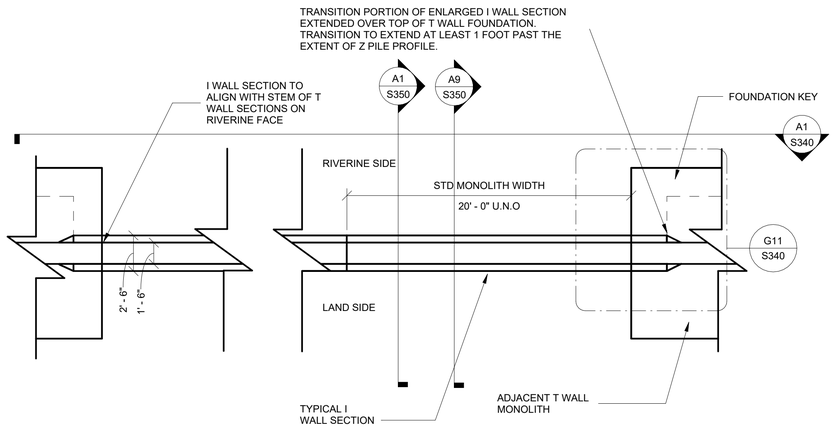
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

TYPICAL STRUCTURAL DETAILS
T WALL REINFORCEMENT DETAILS FOR TURNS

SHEET ID

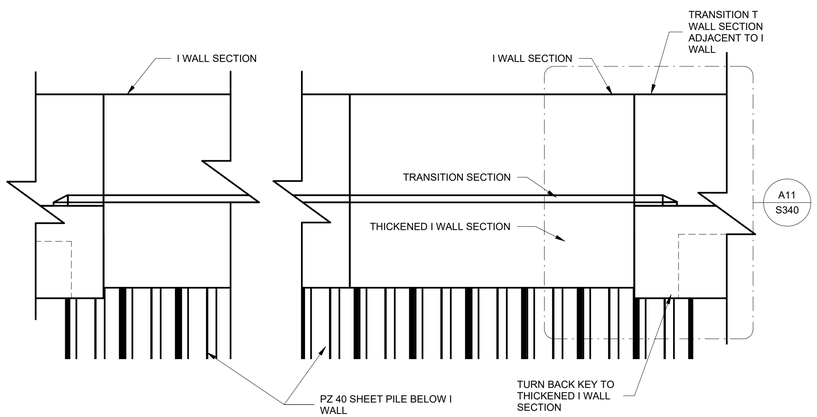
S312

50%



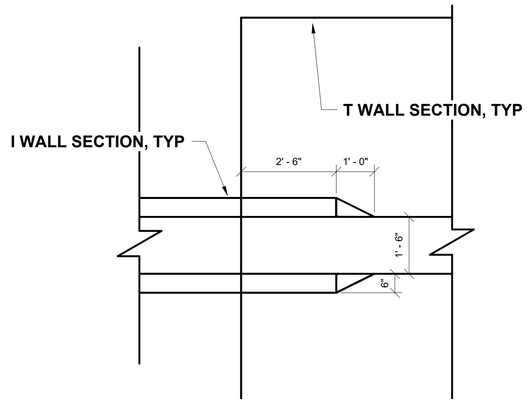
G1 TYP IWALL PLAN

SCALE: 3/16" = 1'-0"



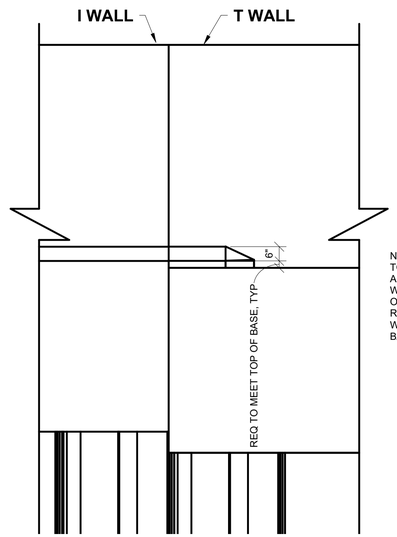
A1 TWALL TO I WALL TRANSITION

SCALE: 3/16" = 1'-0"



G11 TYP I WALL TRANS T WALL

SCALE: 1/2" = 1'-0"



NOTE: FOR TRANSITIONS WHERE THE TOP OF THE T WALL FOUNDATION IS ABOVE THE TRANSITION OF THE I WALL, THE ADDITIONAL THICKNESS OVER THE BASE OF THE T WALL IS NOT REQUIRED. KEY TURN BACK OF THE T WALL STILL REQUIRED TO MEET THE BASE OF THE I WALL PER SECTION G1

A11 TWALL TO I WALL TRANSITION ELEVATION

SCALE: 3/8" = 1'-0"

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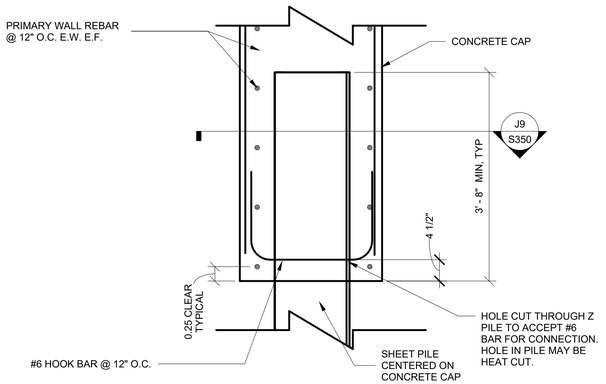
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
PZ - 505229

TRANSITION I WALL TO T WALL

SHEET ID

S340

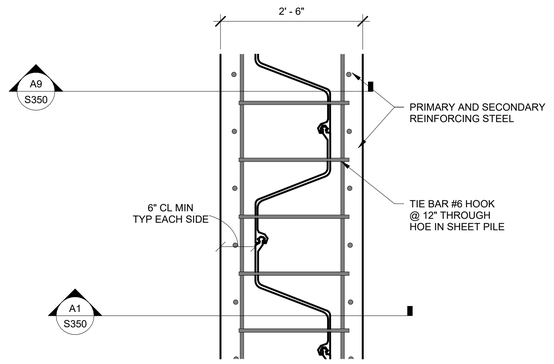
50%



TIE BAR #6 HOOKS @ 12" O.C. THROUGH HOLE IN SHEET PILE

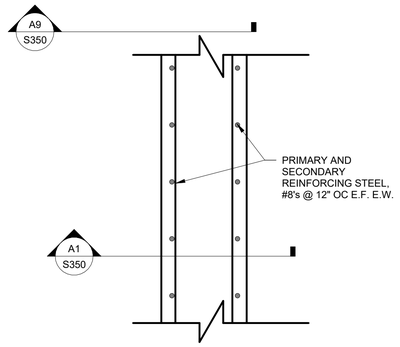
J1 I WALL SHEET PILE CONNECTION

SCALE: 3/4" = 1'-0"



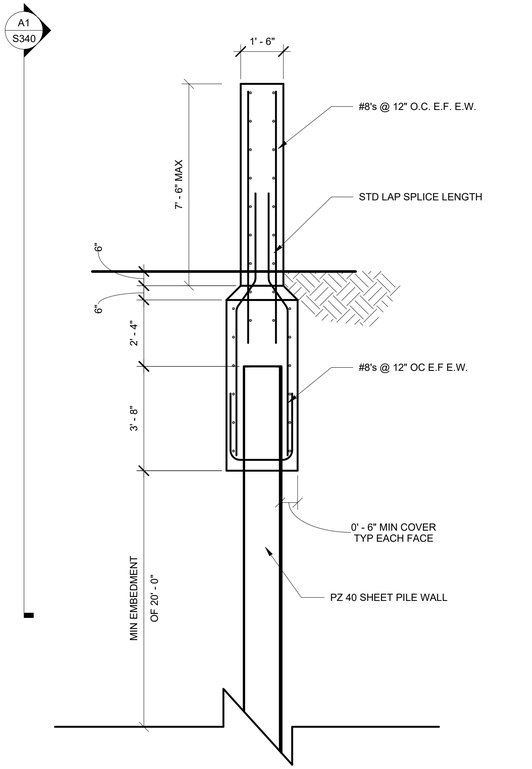
J9 I WALL SHEET PILE CON PLAN

SCALE: 3/4" = 1'-0"



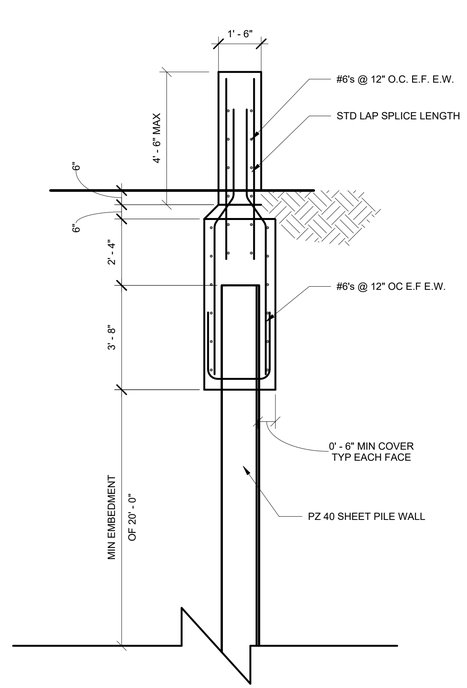
J15 I WALL TOP SECTION

SCALE: 3/4" = 1'-0"



A1 TYP 7 FT I WALL PROFILE

SCALE: 3/8" = 1'-0"



A9 TYP I WALL PROFILE 4 FT

SCALE: 3/8" = 1'-0"

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: J. WESTBROOK	ISSUE DATE: MARCH 2026
DRAWN BY: J. WESTBROOK	SOLICITATION NO.: SEE COVER SHEET
CHECKED BY: P. MULLER	CONTRACT NO.: SEE COVER SHEET
SUBMITTED BY: A. SVITAK	
SIZE: ANSI D	505229_UTC_RVT25_S.RVT

US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

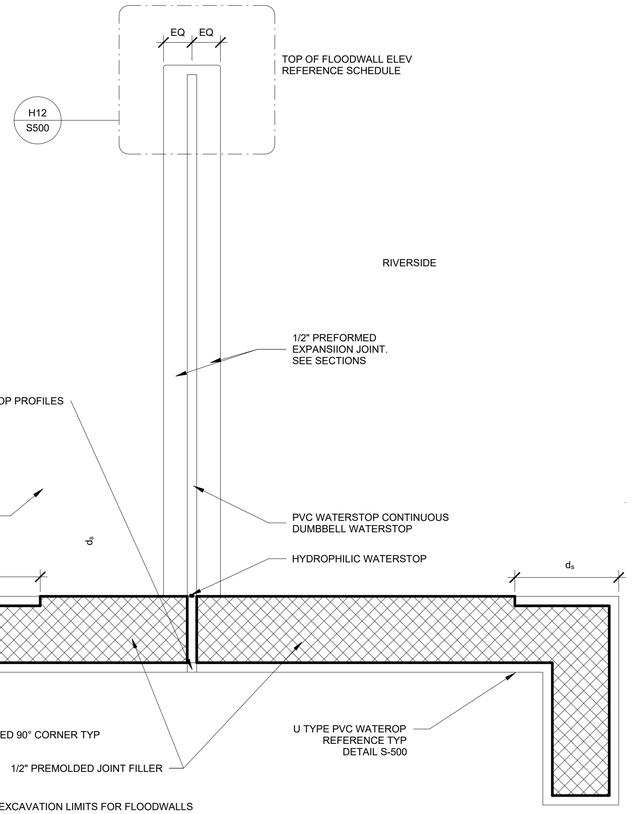
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
PZ - 505229

TYPICAL I WALL SECTIONS

SHEET ID

S350

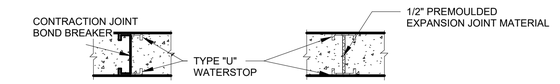
50%



NOTE: REFERENCE CIVIL PLANS FOR EXCAVATION LIMITS FOR FLOODWALLS

A1 MONOLITH JOINT - TYP AT WALL SECTION

SCALE: 1/2" = 1'-0"

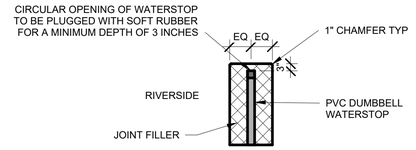


MONOLITH JOINT TYPE "A" **MONOLITH JOINT TYPE "B"**

NOTES:
1. CONTRACTOR TO PLACE TYPE "U" RUBBER WATERSTOP TO INSURE FIRM CONTACT WITH THE PREPARE SUBGRADE THROUGHOUT IT'S ENTIRE CONTACT AREA.
2. TYPE "A" JOINT USED IN STRAIGHT RUNS OF WALL, 20 FT SPACING
3. TYPE "B" JOINT USED IN JUNCTURES OF WALL WITH GATE WELLS, PUMP STATIONS AND GATE ABUTMENTS, AND IN CHANGE OF DIRECTION MONOLITHS

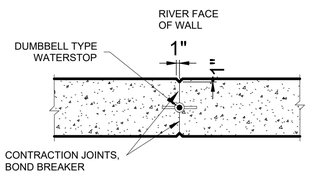
L12 MONOLITH JOINT TYPE A & B - U

SCALE: 3/8" = 1'-0"



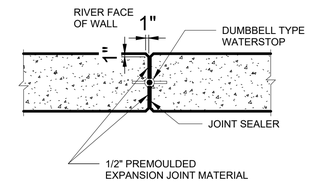
H12 MONOLITH JOINT - TOP OF WALL SECTION

SCALE: 3/8" = 1'-0"



D12 MONOLITH JOINT TYPE A

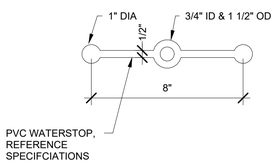
SCALE: 1/2" = 1'-0"



NOTE: MAKE JOINT 1" THICK WHERE MONOLITH CONTAINS CHANGE DIRECTION

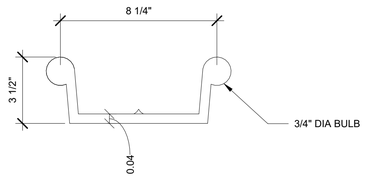
D17 MONOLITH JOINT TYPE B

SCALE: 1/2" = 1'-0"



A12 DUMBBELL WATERSTOP DETAIL

SCALE: 3" = 1'-0"



A17 U PVC WATERSTOP

SCALE: 3" = 1'-0"

US Army Corps of Engineers ®

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CHECKED BY: P. MULLER
SUBMITTED BY: A. SVITAK
SIZE: ANSI D
ISSUE DATE: MARCH 2026
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.: SEE COVER SHEET
505229_UTC_RVT25_S.RVT

US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

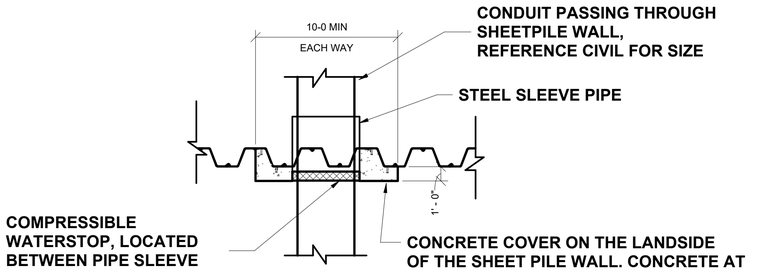
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

TYP FLOODWALL DETAILS

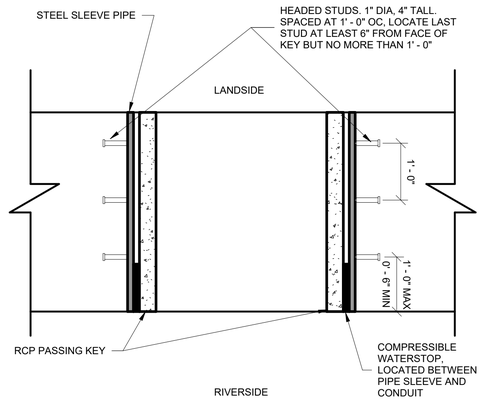
SHEET ID

S500

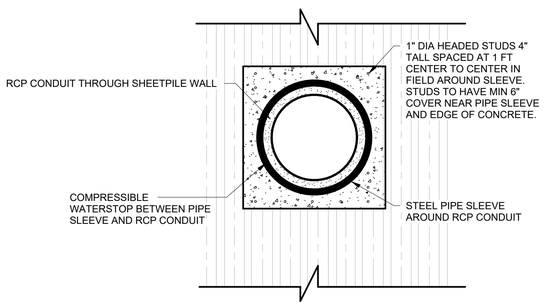
50%



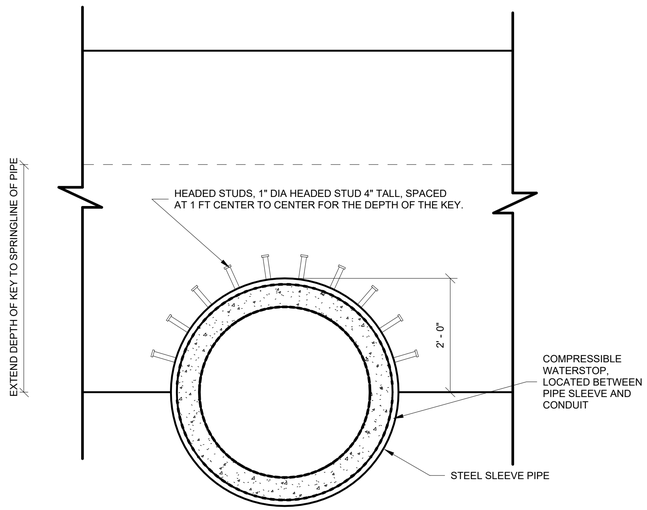
H1 CONDUIT PASSING SHEETPILE
SCALE: 3/16" = 1'-0"



H12 CONDUIT PASSING KEY
SCALE: 3/4" = 1'-0"



1 CONDUIT PASSING SHEETPILE ELEV
SCALE: 3/16" = 1'-0"



NOTE: WHEN PIPE CROSSING KEY OF T WALL FOUNDATION WILL REQUIRE THAT THE KEY BE MODIFIED, DEPTH OF THE KEY SHALL BE EXTENDED DOWN TO THE SPRINGLINE OF THE PIPE A TOTAL LENGTH OF 10 FEET. STEEL SLEEVE TO BE EMBEDDED INTO BOTTOM OF KEY, FULL LENGTH OF THE THICKNESS OF THE KEY WITH STUDS SPACED ON 6" CENTERS WITH MIN COVER OF 4" FROM FRONT AND BACK FACE OF CONCRETE.

A12 CONDUIT PASSING KEY ELEV
SCALE: 3/4" = 1'-0"

US Army Corps of Engineers ®

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DRAWN BY: J. WESTBROOK
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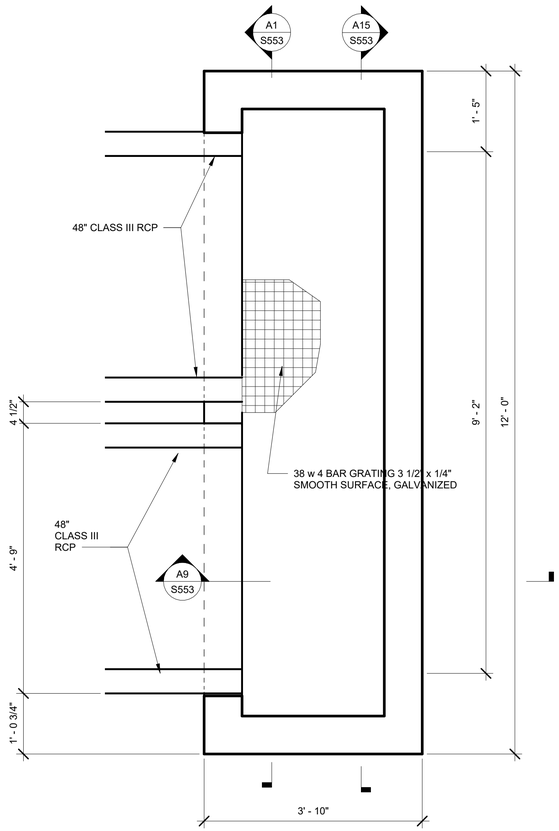
US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

TYP FLOODWALL DETAILS

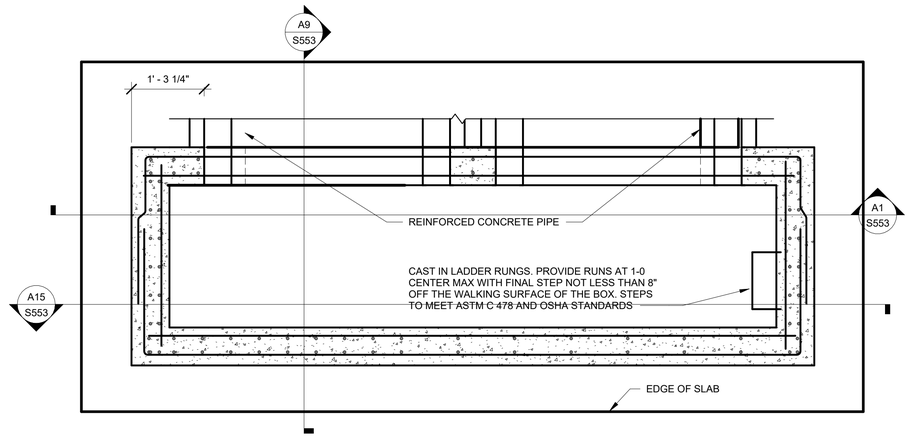
SHEET ID
S501

50%



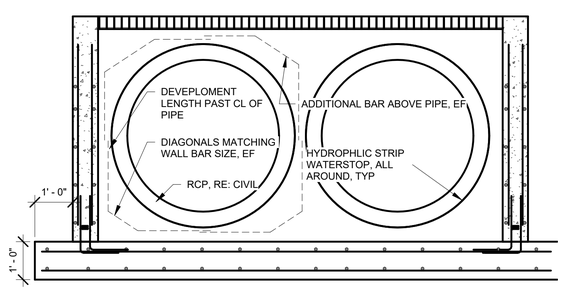
G1 TOP OF STRUCTURE

SCALE: 3/4" = 1'-0"



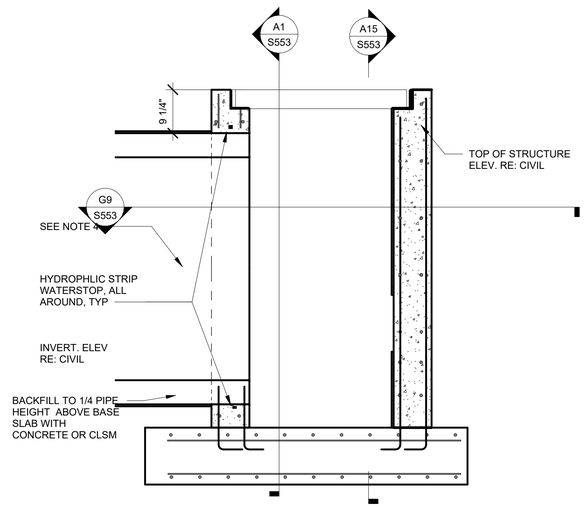
G9 SECTION

SCALE: 3/4" = 1'-0"



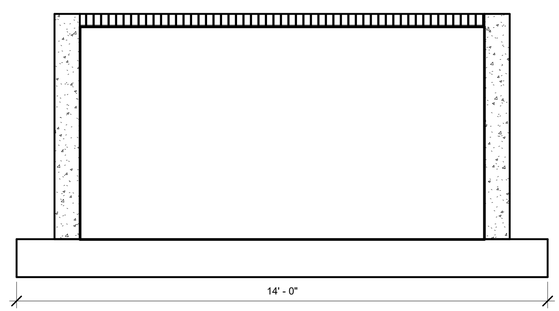
A1 SECTION

SCALE: 1/2" = 1'-0"



A9 SECTION

SCALE: 3/4" = 1'-0"



A15 SECTION

SCALE: 1/2" = 1'-0"

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: E. FERNANDEZ
DRAWN BY: J. MAXWELL
CHECKED BY: J. WESTBROOK
SUBMITTED BY: A. SVITAK
SIZE: ANSI D
ISSUE DATE: MARCH 2026
SOLICITATION NO.: SEE COVER SHEET
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US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

TYPICAL LARGE AREA INLET DETAILS

SHEET ID

S553

50%

LEFT BANK FLOODWALL SCHEDULE

STATIONING			STEM	FOUNDATION					KEY		
			DIMENSIONS	DIMENSIONS					DIMENSIONS		
STATION FROM	STATION TO	TOP OF WALL ELEVATION	HEIGHT OF WALL	TOP OF FOUND ELEV	DEPTH OF FOUND	WIDTH OF FOUND	WIDTH OF TOE	WIDTH OF HEEL	KEY WIDTH	DEPTH OF KEY	REMARKS
1+40	2+80	939.0	4' - 0"	935.0	6' - 2"	2' - 6"	6"	6"	1' - 0"	0"	LB4I01
2+80	3+20	939.0	6' - 6"	932.5	6' - 2"	2' - 6"	6"	6"	2' - 6"	6' - 6"	LB8I01
6+80	7+00	938.0	6' - 6"	931.5	6' - 2"	2' - 6"	6"	6"	0"	0"	LB8I02
12+80	13+20	934.5	6' - 6"	928.0	6' - 2"	2' - 6"	6"	6"	0"	0"	LB8I03
13+20	13+79.53	934.0	6' - 6"	927.5	6' - 2"	2' - 6"	6"	6"	0"	0"	LB8I04
13+79.53	14+20	933.5	6' - 6"	927.0	6' - 2"	2' - 6"	6"	6"	0"	0"	LB8I05
14+20	14+78.98	933.0	6' - 6"	926.5	6' - 2"	2' - 6"	6"	6"	0"	0"	LB8I06
14+78.98	15+24.46	922.5	6' - 6"	916.0	6' - 2"	2' - 6"	6"	6"	0"	0"	LB8I07
15+24.46	15+80	931.5	6' - 6"	925.0	6' - 2"	2' - 6"	6"	6"	0"	0"	LB8I08
15+80	16+40	931.0	6' - 6"	924.5	6' - 2"	2' - 6"	6"	6"	0"	0"	LB8I09
16+40	17+00	930.5	6' - 6"	924.0	6' - 2"	2' - 6"	6"	6"	0"	0"	LB8I10
17+80	18+00	929.0	6' - 6"	922.5	6' - 2"	2' - 6"	6"	6"	0"	0"	LB8I11
18+00	18+40	928.5	6' - 6"	922.0	6' - 2"	2' - 6"	6"	6"	0"	0"	LB8I12
18+40	19+00	928.0	6' - 6"	921.5	6' - 2"	2' - 6"	6"	6"	0"	0"	LB8I13
20+40	20+60	927.0	6' - 6"	920.5	6' - 2"	2' - 6"	6"	6"	0"	0"	LB8I14
20+60	21+00	926.5	6' - 6"	920.0	6' - 2"	2' - 6"	6"	6"	0"	0"	LB8I15
40+00	40+30.91	920.5	6' - 6"	914.0	6' - 2"	2' - 6"	6"	6"	0"	0"	LB8I16
41+40	41+64.40	920.5	6' - 6"	914.0	6' - 2"	2' - 6"	6"	6"	0"	0"	LB8I17

US Army Corps of Engineers ®

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US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

LEFT BANK FLOODWALLS

SHEET ID

S601

50%

RIGHT BANK FLOODWALL SCHEDULE

STATIONING			STEM	FOUNDATION					KEY		
			DIMENSIONS	DIMENSIONS					DIMENSIONS		
STATION FROM	STATION TO	TOP OF WALL ELEVATION	HEIGHT OF WALL	TOP OF FOUND ELEV	DEPTH OF FOUND	WIDTH OF FOUND	WIDTH OF TOE	WIDTH OF HEEL	KEY WIDTH	DEPTH OF KEY	REMARKS
5+71.53	6+20	932.1	6' - 0"	926.1	1' - 6"	9' - 0"	4' - 0"	3' - 6"	1' - 6"	4' - 6"	RB6T01
6+20	6+40	931.6	6' - 0"	925.6	1' - 6"	9' - 0"	4' - 0"	3' - 6"	1' - 6"	4' - 6"	RB6T02
6+40	6+84.89	931.1	8' - 0"	923.1	2' - 0"	10' - 6"	4' - 6"	4' - 6"	2' - 6"	5' - 0"	RB8T01
6+84.89	7+40	931.1	10' - 0"	921.1	2' - 0"	13' - 0"	3' - 6"	8' - 0"	3' - 6"	5' - 0"	RB10T01
7+40	7+56.18	930.6	10' - 0"	920.6	2' - 0"	13' - 0"	3' - 6"	8' - 0"	3' - 6"	5' - 0"	RB10T02
7+56.18	8+40	930.1	8' - 0"	922.1	2' - 0"	10' - 6"	4' - 6"	4' - 6"	2' - 6"	5' - 0"	RB8T02
8+40	8+80	929.6	8' - 0"	921.6	2' - 0"	10' - 6"	4' - 6"	4' - 6"	2' - 6"	5' - 0"	RB8T03
8+80	9+00	929.1	6' - 0"	923.1	1' - 6"	9' - 0"	4' - 0"	3' - 6"	1' - 6"	4' - 6"	RB6T03
9+00	9+40	928.6	6' - 0"	922.6	1' - 6"	9' - 0"	4' - 0"	3' - 6"	1' - 6"	4' - 6"	RB6T04
9+40	10+00	928.1	6' - 0"	922.1	1' - 6"	9' - 0"	4' - 0"	3' - 6"	1' - 6"	4' - 6"	RB6T05
10+00	10+60	927.6	6' - 0"	921.6	1' - 6"	9' - 0"	4' - 0"	3' - 6"	1' - 6"	4' - 6"	RB6T06
10+60	11+20	927.1	6' - 0"	921.1	1' - 6"	9' - 0"	4' - 0"	3' - 6"	1' - 6"	4' - 6"	RB6T07
11+20	11+60	926.6	6' - 0"	920.6	1' - 6"	9' - 0"	4' - 0"	3' - 6"	1' - 6"	4' - 6"	RB6T08
11+60	11+80	926.1	6' - 0"	920.1	1' - 6"	9' - 0"	4' - 0"	3' - 6"	1' - 6"	4' - 6"	RB6T09
11+80	12+00	925.8	6' - 6"	919.3	6' - 2"	2' - 6"	6"	6"	0"	0"	RB8I01
19+21.15	19+41.16	922.5	6' - 6"	916.0	6' - 2"	2' - 6"	6"	6"	0"	0"	RB8I02
19+41.16	20+00	922.5	8' - 0"	914.5	2' - 0"	10' - 6"	4' - 6"	4' - 6"	2' - 6"	5' - 0"	RB8T04
20+00	21+60	922.0	8' - 0"	914.0	2' - 0"	10' - 6"	4' - 6"	4' - 6"	2' - 6"	5' - 0"	RB8T05
21+60	22+20	922.0	10' - 0"	912.0	2' - 0"	13' - 0"	3' - 6"	8' - 0"	3' - 6"	5' - 0"	RB10T03
22+20	24+00	921.5	10' - 0"	911.5	2' - 0"	13' - 0"	3' - 6"	8' - 0"	3' - 6"	5' - 0"	RB10T04
24+00	24+43.79	921.0	12' - 0"	909.0	2' - 0"	13' - 6"	5' - 6"	6' - 6"	2' - 0"	6' - 0"	RB12T01
24+43.79	25+60	921.0	8' - 0"	913.0	2' - 0"	10' - 6"	4' - 6"	4' - 6"	2' - 6"	5' - 0"	RB8T06
25+60	26+20	920.5	10' - 0"	910.5	2' - 0"	13' - 0"	3' - 6"	8' - 0"	3' - 6"	5' - 0"	RB10T05
26+20	37.34.83	920.5	8' - 0"	912.5	2' - 0"	10' - 6"	4' - 6"	4' - 6"	2' - 6"	5' - 0"	RB8T07
27+34.83	28+40	920.5	10' - 0"	910.5	2' - 0"	13' - 0"	3' - 6"	8' - 0"	3' - 6"	5' - 0"	RB10T06
28+40	33+00	920.5	12' - 0"	908.5	2' - 0"	13' - 6"	5' - 6"	6' - 6"	2' - 0"	6' - 0"	RB12T02
33+80	34+60	920.0	12' - 0"	908.0	2' - 0"	13' - 6"	5' - 6"	6' - 6"	2' - 0"	6' - 0"	RB12T03
34+60	35+60	919.5	12' - 0"	907.5	2' - 0"	13' - 6"	5' - 6"	6' - 6"	2' - 0"	6' - 0"	RB12T04
35+60	36+40	919.0	12' - 0"	907.0	2' - 0"	13' - 6"	5' - 6"	6' - 6"	2' - 0"	6' - 0"	RB12T05
36+40	37+17.22	918.5	12' - 0"	906.5	2' - 0"	13' - 6"	5' - 6"	6' - 6"	2' - 0"	6' - 0"	RB12T06
37.17.22	37+37.22	918.5	6' - 6"	912.0	6' - 2"	2' - 6"	6"	6"	0"	0"	RB8I03
49+00	49+65.07	914.5	6' - 6"	908.0	6' - 2"	2' - 6"	6"	6"	0"	0"	RB8I04
49+65.07	52+20	914.0	6' - 6"	907.5	6' - 2"	2' - 6"	6"	6"	0"	0"	RBI805
52+20	53+05.5	914.0	12' - 0"	902.0	2' - 0"	13' - 6"	5' - 6"	6' - 6"	2' - 0"	6' - 0"	RB12T07
54+00	55+00	913.5	6' - 6"	907.0	6' - 2"	2' - 6"	6"	6"	0"	0"	RB8I06
55+00	55+40	913.0	6' - 6"	906.5	6' - 2"	2' - 6"	6"	6"	0"	0"	RB8I07
55+40	56+20	912.5	6' - 6"	906.0	6' - 2"	2' - 6"	6"	6"	0"	0"	RB8I08
56+20	57+69.64	912.5	6' - 6"	906.0	6' - 2"	2' - 6"	6"	6"	0"	0"	RB8I09

US Army Corps of Engineers ®

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601 E. 12TH STREET
KANSAS CITY, MO 64106

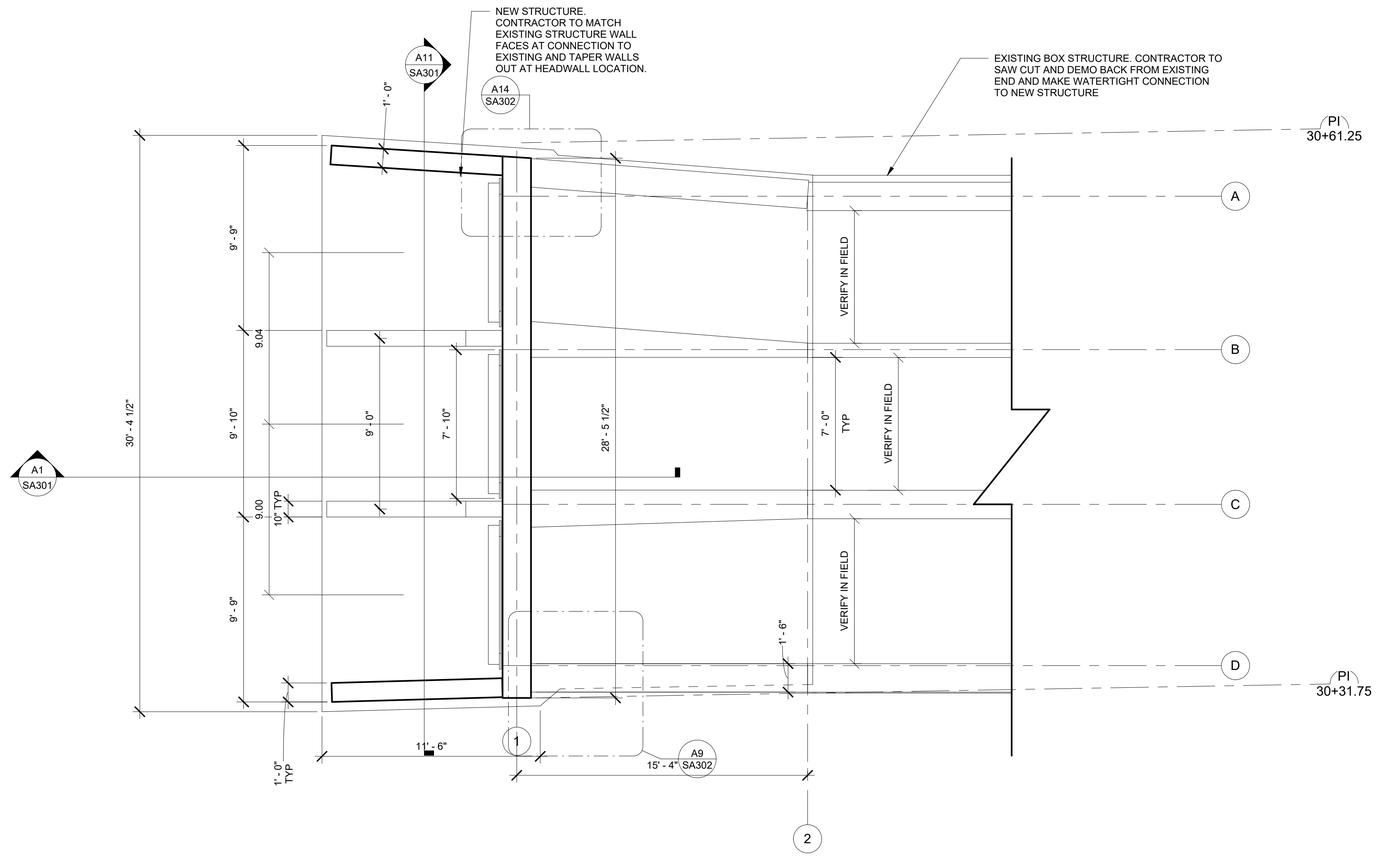
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

RIGHT BANK FLOODWALLS

SHEET ID

S602

50%



A1 QUAKER CREEK PLAN

SCALE: 1/4" = 1'-0"

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH 2026
SOLICITATION NO.: SEE COVER SHEET
CONTRACT NO.: SEE COVER SHEET

DESIGNED BY: J. WESTBROOK
DRAWN BY: J. WESTBROOK
CHECKED BY: P. MULLER
SUBMITTED BY: A. SVITAK
SIZE: ANSI D

505229_UTC_RVT25_S.RVT

US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

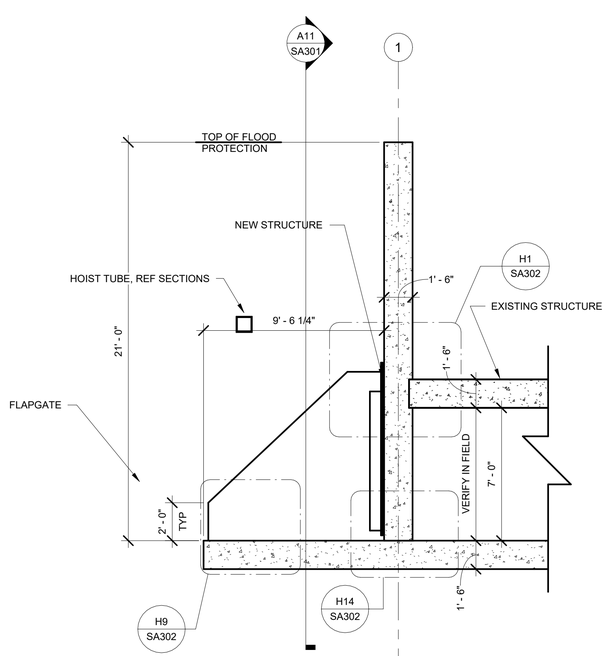
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

QUAKER CREEK BOX STRUCURE

SHEET ID

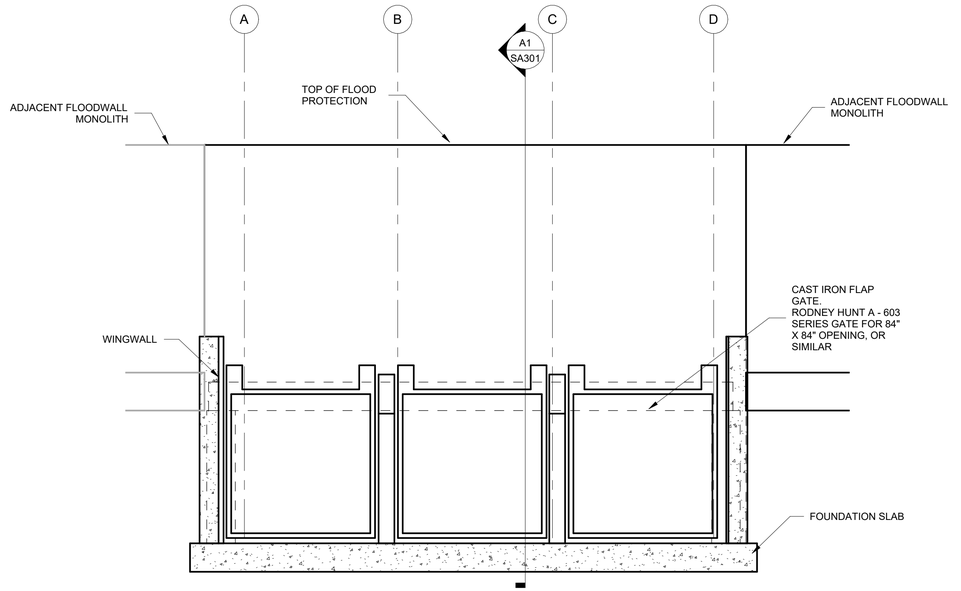
SA300

50%



A1 QUAKER CREEK ELEVATION

SCALE: 1/4" = 1'-0"



A11 QUAKER CREEK ELEV

SCALE: 1/4" = 1'-0"

MARK	DESCRIPTION	DATE

US Army Corps of Engineers ®

DESIGNED BY: J WESTBROOK
DRAWN BY: J. WESTBROOK
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SUBMITTED BY: A. SVITAK
SIZE: ANSI D
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US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

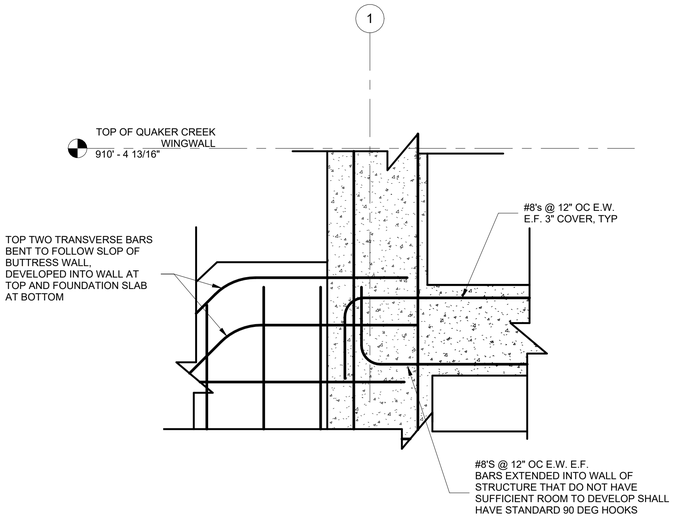
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

QUAKER CREEK BOX ELEVATIONS

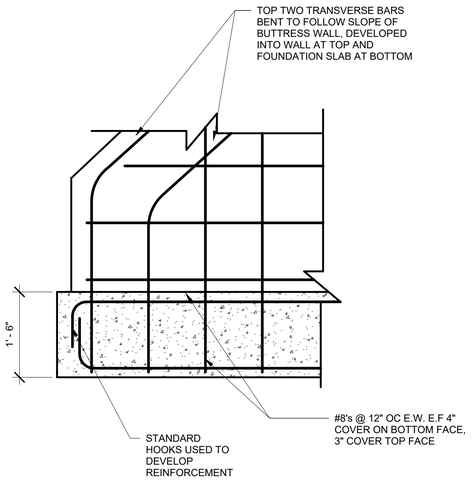
SHEET ID

SA301

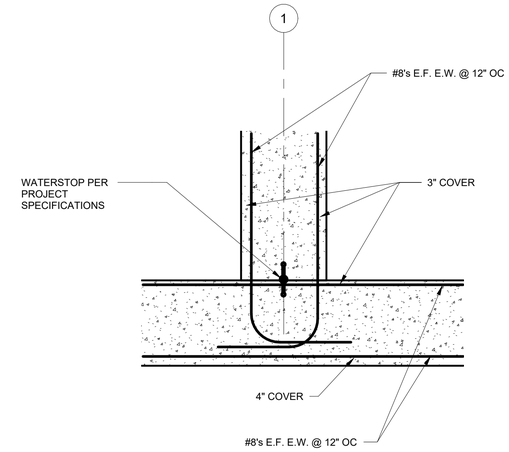
50%



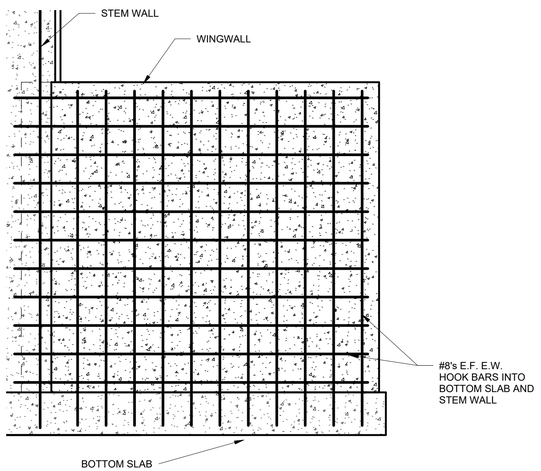
H1 TOP SLAB CONNECTION AT WALL
SCALE: 3/4" = 1'-0"



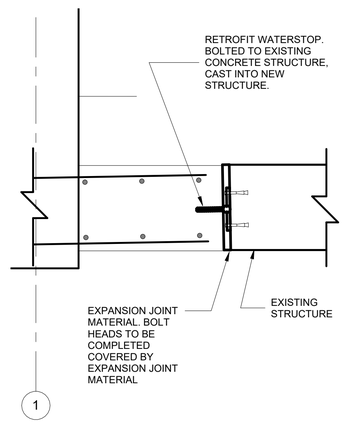
H9 BOT SLAB CONNECTION AT BUTTRESS
SCALE: 3/4" = 1'-0"



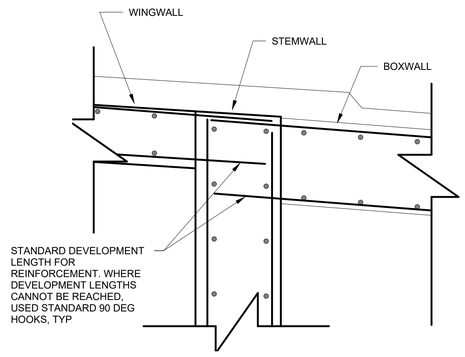
H14 BOT SLAB CONNECTION AT WALL
SCALE: 3/4" = 1'-0"



A1 QUAKER CREEK WINGWALL REBAR
SCALE: 3/8" = 1'-0"



A9 BOX CONNECTION TO EXISTING
SCALE: 3/4" = 1'-0"



A14 WINGWALL CONNECTION TO STEM
SCALE: 3/4" = 1'-0"

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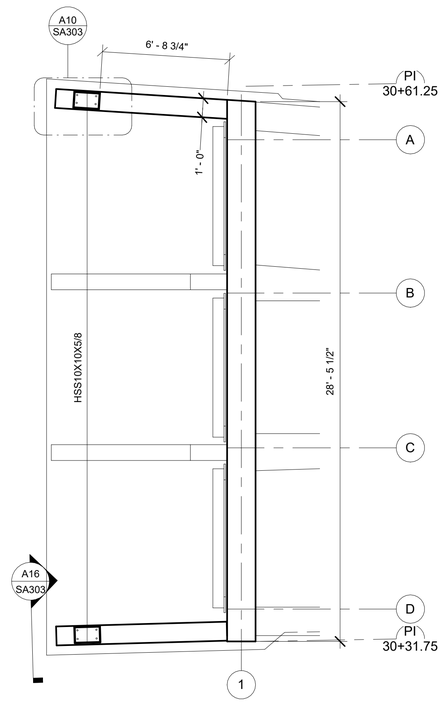
US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

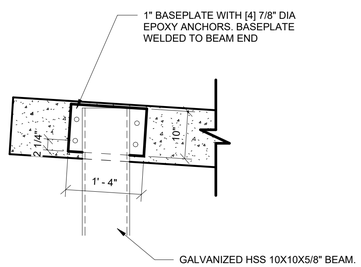
QUAKER CREEK BOX DETAILS

SHEET ID
SA302

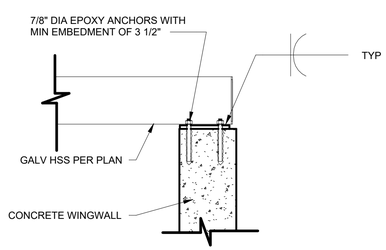
50%



A1 QUAKER CREEK PLAN
SCALE: 1/4" = 1'-0"



A10 HOIST BASEPLATE
SCALE: 3/4" = 1'-0"



A16 HOIST SECTION
SCALE: 3/4" = 1'-0"

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: J. WESTBROOK
DRAWN BY: J. WESTBROOK
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SUBMITTED BY: A. SVITAK
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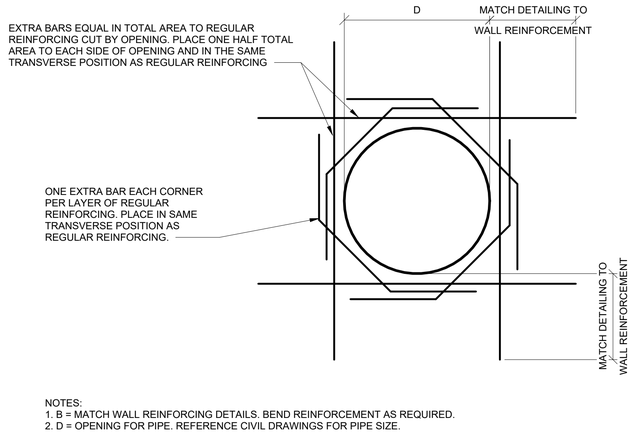
US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

QUAKER CREEK BOX DETAILS

SHEET ID
SA303

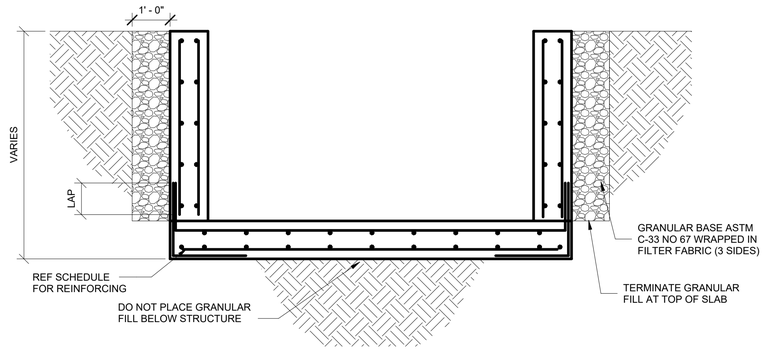
50%



NOTES:
1. B = MATCH WALL REINFORCING DETAILS. BEND REINFORCEMENT AS REQUIRED.
2. D = OPENING FOR PIPE. REFERENCE CIVIL DRAWINGS FOR PIPE SIZE.

K1 OUTLET STRT - TYP EXRA REBAR AT OPENINGS

SCALE: 1/2" = 1'-0"

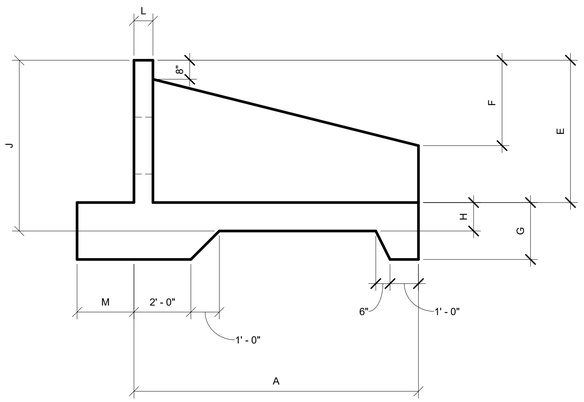


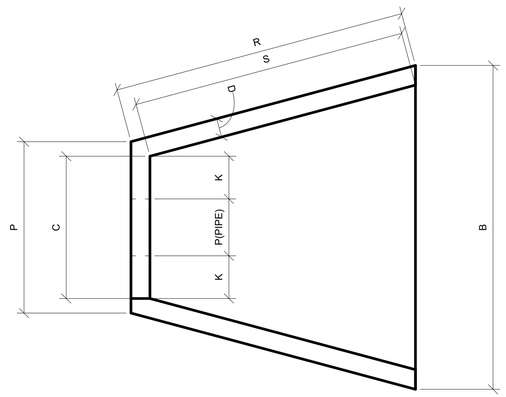
K8 OUTLET STRUCTURE REINFORCEMENT

SCALE: 1/2" = 1'-0"

OUTFALL GENERAL NOTES:

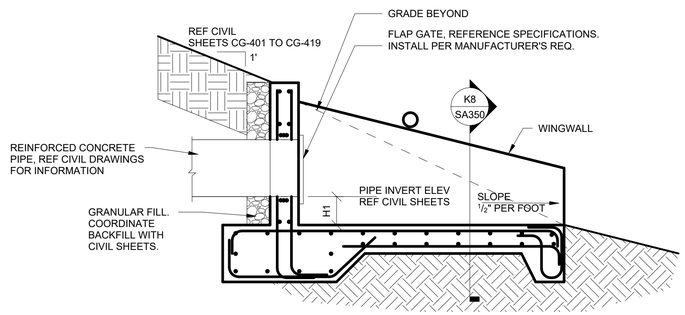
1. REFERENCE DETAIL SECTION AND SCHEDULE FOR OUTFALL STRUCTURE DIMENSIONS.
2. ELEVATION OF BACKFILL ON THE DRAINAGE STRUCTURE WALLS SHALL BE LIMITED TO LESS THAN 1 FOOT DIFFERENCE EITHER SIDE OF THE WALL
3. CONTRACTOR SHALL LIMIT EQUIPMENT LOADING ADJACENT OR ON TOP OF WALLS TO 250 PSF.
4. HEADWALL HEIGHTS HAVE BEEN DESIGNED TO ACCOMMODATE THE DRAINAGE PIPE AND CLOSURE. WALL HEIGHTS SHALL NOT BE INCREASED WITHOUT PERMISSION OF CONTRACTING OFFICE.
5. TYPICAL REQUIRED EXTRA REINFORCEMENT UNLESS ADDITIONAL REINFORCEMENT SPECIFICALLY INDICATED AT OPENINGS ON DRAWINGS
6. REFERENCE CIVIL DRAWINGS FOR OUTFALL LOCATIONS AND ELEVATIONS.
7. RIP RAP MATERIAL PER CIVIL DRAWINGS.
8. WHERE STANDARD DEVELOPMENT LENGTHS CANNOT BE ACHIEVED PROVIDE STANDARD 90 DEGREE HOOKS FOR REINFORCING STEEL.





A1 OUTLET STRT - TYP CROSS SECTION

SCALE: 3/8" = 1'-0"



F8 OUTLET STRT - REINFORCEMENT

SCALE: 3/8" = 1'-0"

Structure Name	Top of Outlet Wall Ft	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	H (in)	H1 (in)	J (in)	K (in)	L (in)	M (in)	P (in)	P PIPE (in)	R (in)	S (in)	REMARKS
ST-02A	923.43	60	105	60	8	60	36	24	12	12	72	18	12	24	73	24	62	54	
ST-03A	922.01	60	105	60	8	60	36	24	12	12	72	18	12	24	73	24	62	54	
ST-05A	918.98	60	148	72	8	60	36	24	12	12	72	18	12	24	85	36	62	54	
ST-09A	914.76	60	160	84	8	72	51	24	12	12	72	18	12	24	96	48	62	54	
ST-10A	912.03	60	105	72	8	60	36	24	12	12	72	18	12	24	73	24	62	54	
ST-12A	910.33	60	241	143	8	81	57	24	12	12	72	18	12	24	147	[2] 48	62	54	REFERENCE DETAILS ON SB300 - SB302
ST-16A	905.93	60	105	72	8	60	36	24	12	12	72	18	12	24	73	24	62	54	
ST-20A	898.52	60	160	84	8	72	51	24	12	12	72	18	12	24	96	48	62	54	
ST-22A	902.18	60	105	60	8	60	36	24	12	12	72	18	12	24	73	24	62	54	
ST-23A	900.68	60	148	72	8	60	36	24	12	12	72	18	12	24	85	36	62	54	
ST-26A	902.61	60	105	60	8	60	36	24	12	12	72	18	12	24	73	24	62	54	
ST-34A	895.02	60	172	96	8	84	67	24	12	12	72	18	12	24	108	60	62	54	
ST-39A	893.28	60	241	143	8	81	57	24	12	12	72	18	12	24	147	[2] 48	62	54	REFERENCE DETAILS ON SB300 - SB302
ST-43A	896.62	60	105	60	8	60	36	24	12	12	72	18	12	24	73	24	62	54	
ST-45A	900.17	60	105	60	8	60	36	24	12	12	72	18	12	24	73	24	62	54	

F16 HOIST BRACKET

SCALE: 3/4" = 1'-0"

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

ISSUE DATE:
MARCH 2026
SOLICITATION NO.:
SEE COVER SHEET
CONTRACT NO.:
SEE COVER SHEET

DESIGNED BY:
E. PEREZ-LOPEZ
DRAWN BY:
J. MAXWELL
CHECKED BY:
J. WESTBROOK
SUBMITTED BY:
A. SVITAK
SIZE:
ANSI D
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US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

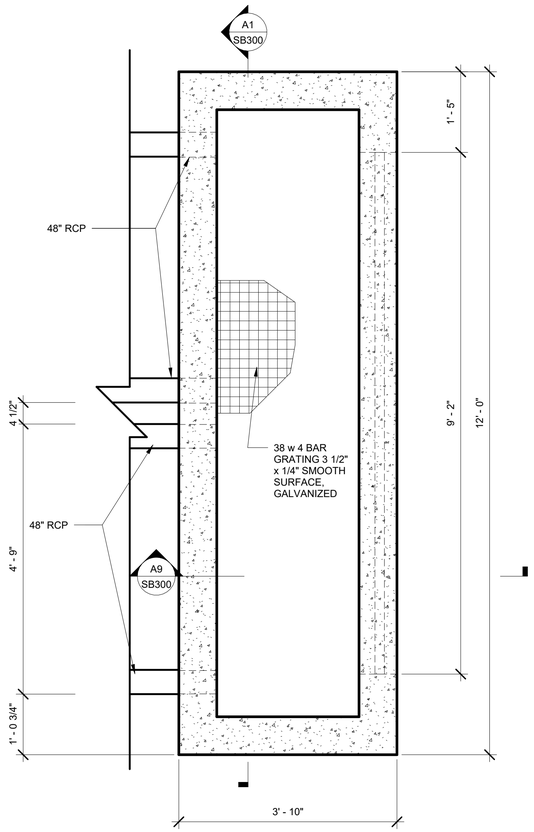
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

TYPICAL OUTFALL STRUCTURES

SHEET ID

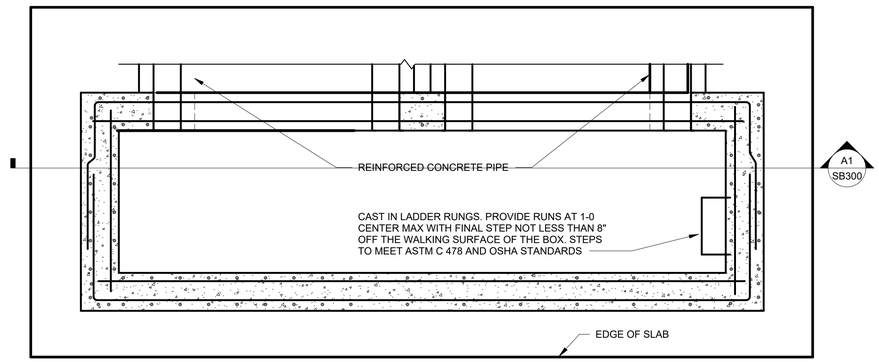
SA350

50%



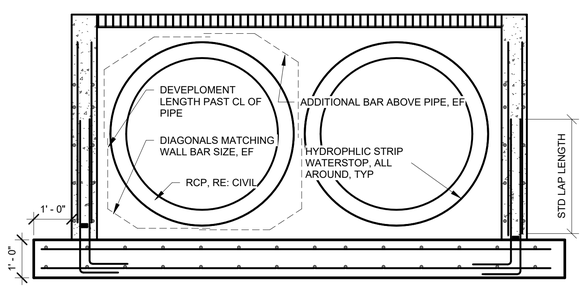
G1 PLAN - TOP OF STRUCTURE

SCALE: 3/4" = 1'-0"



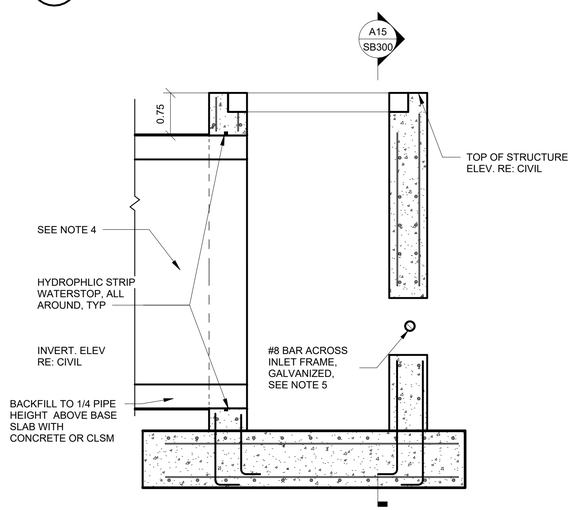
GENERAL SHEET NOTES

1. SEE S-001 FOR GENERAL NOTES
2. ALL REINFORCING SHALL BE #5 AT 12" OC MAX UNO.
3. SEE CGXXX FOR PIPE PLANS AND PROFILES.
4. PROVIDE (3) 4 FT SECTIONS AT EACH PIPE. THESE PIPES MUST NOT BE CUT AND REINFORCEMENT COVER SHOULD MATCH TYPICAL ENDS.
5. FOR LARGER AREA INLET STRUCTURE LOCATED ON RIGHT BANK USE SIMILAR LAYOUT AND OMIT THE LOW FLOW OPENING IN BOX STRUCTURE.



A1 SECTION

SCALE: 1/2" = 1'-0"

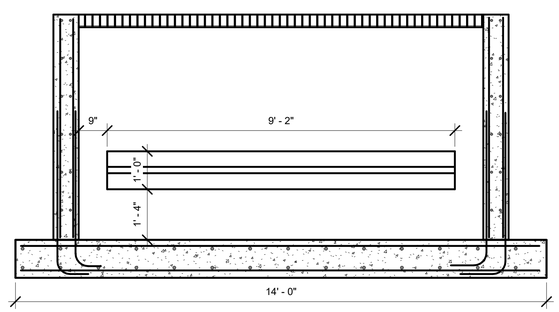


G9 SECTION

SCALE: 3/4" = 1'-0"

A9 SECTION

SCALE: 3/4" = 1'-0"



A15 SECTION

SCALE: 1/2" = 1'-0"

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: E. FERNANDEZ
DRAWN BY: J. MAXWELL
CHECKED BY: J. WESTBROOK
SUBMITTED BY: A. SVITAK
SIZE: ANSI D

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KANSAS CITY DISTRICT
601 E. 12TH STREET
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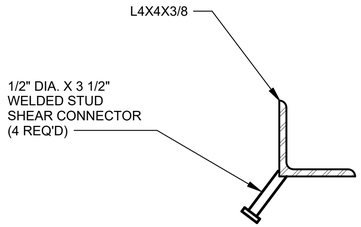
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

DENTENTION POND AREA INLET

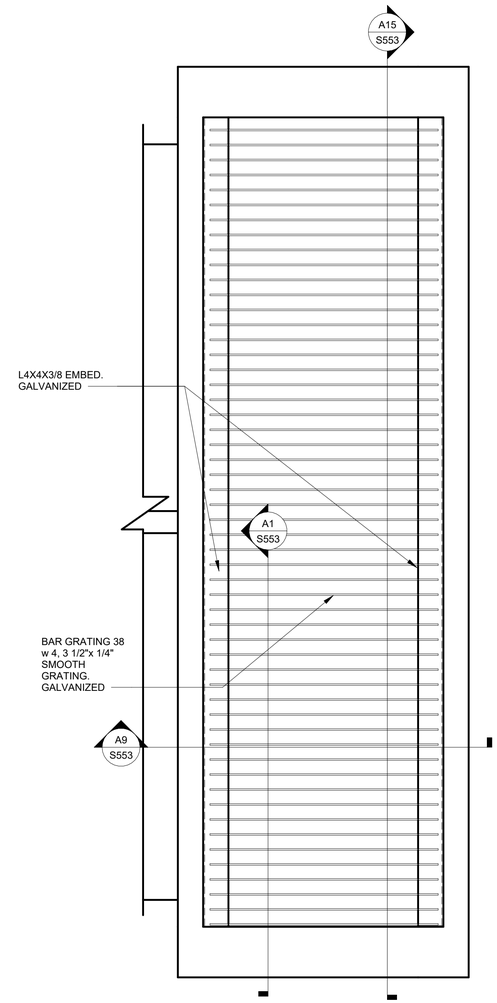
SHEET ID

SB300

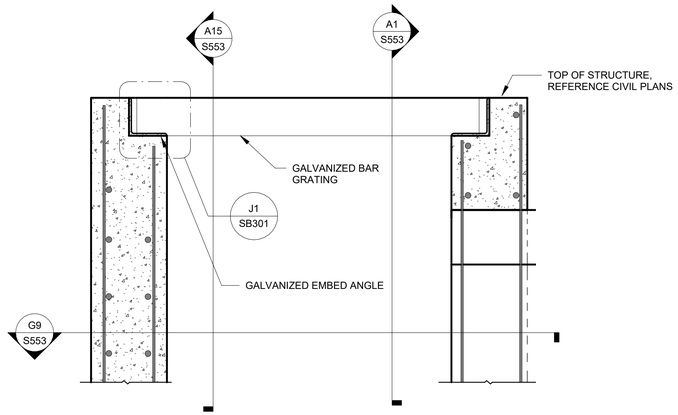
50%



J1 WELDED STUD DETAIL
SCALE: 3" = 1'-0"



A15 AREA INLET PLAN VIEW
SCALE: 1" = 1'-0"



A1 SECTION
SCALE: 1 1/2" = 1'-0"

US Army Corps of Engineers ®

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US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
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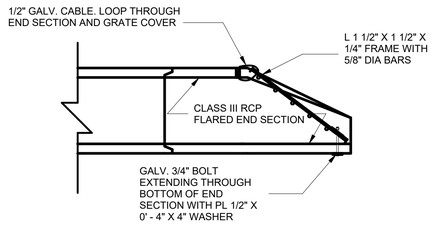
FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

DENTENTION POND AREA INLET DETAILS

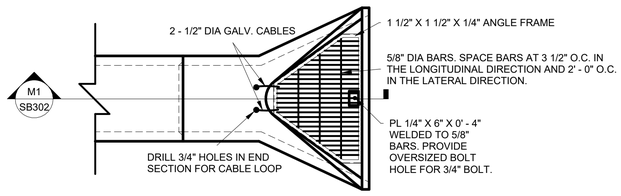
SHEET ID
SB301

50%



M1 OUTFALL BELL WITH GRATE ELEV

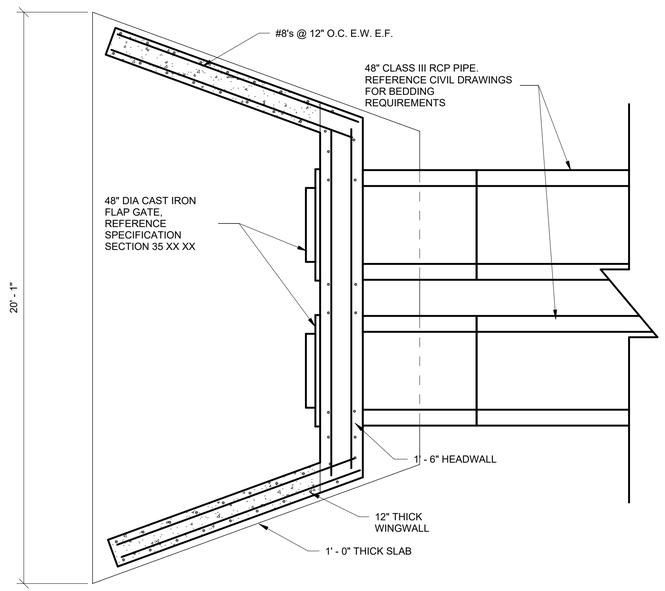
SCALE: 3/8" = 1'-0"



NOTES:
1. GRATE COVER DETAIL SHALL BE ADJUSTED AS NECESSARY TO FIT END SECTION PROVIDED. MAXIMUM OPENING THROUGH END SECTION SHALL BE NOT GRATER THAN 6".
2. ALL METALS AND HARDWARE SHALL BE HOT DIP ZINC COATED IN ACCORDANCE WITH ASTM A-123
3. DO NOT SCALE DRAWINGS FOR DIMENSIONS OR CLEARANCES.

H1 OUTFALL BELL WITH GRATE

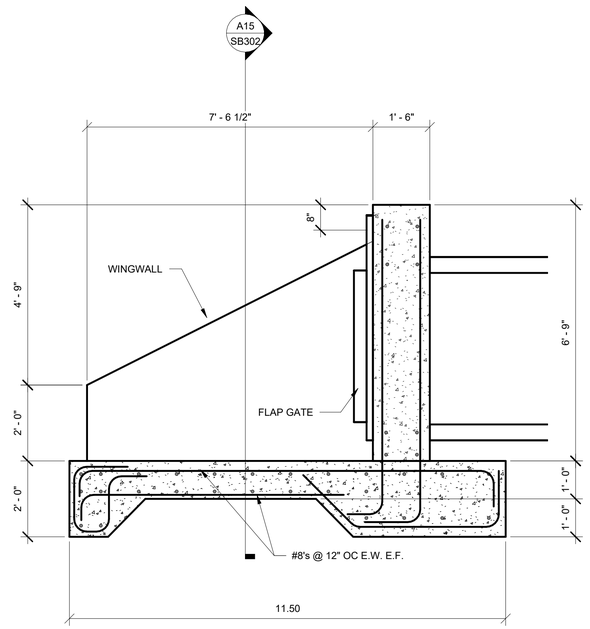
SCALE: 3/8" = 1'-0"



NOTE: REFERENCE S-530 FOR REINFORCEMENT DETAILING TYPICAL FOR OUTFALL STRUCTURES. WHERE MEMBER LENGTH IS SHORTER THAN BAR DEVELOPMENT LENGTH HOOK BARS WITH STANDARD 90 DEGREE HOOK.

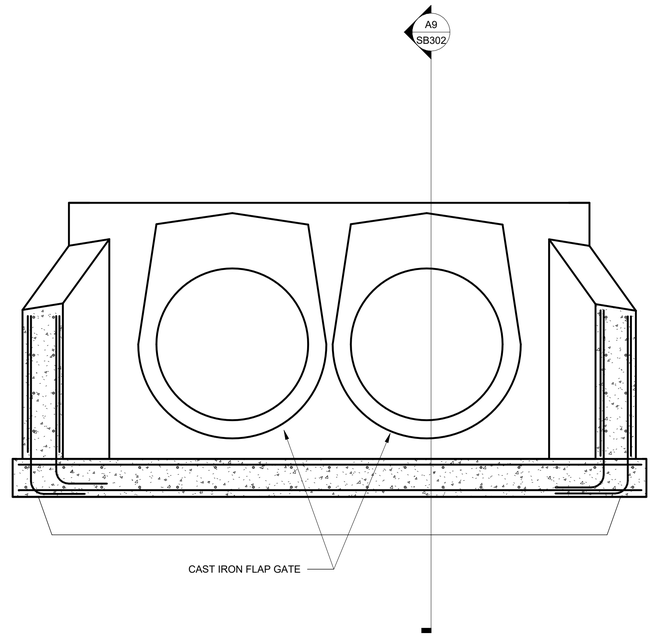
A1 DETENTION OUTFALL PLAN

SCALE: 3/8" = 1'-0"



A9 DETENTION OUTFALL SECTION

SCALE: 1/2" = 1'-0"



A15 DETENTION OUTFALL

SCALE: 1/2" = 1'-0"

US Army Corps of Engineers ®

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ISSUE DATE:
MARCH 2026
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CONTRACT NO.:
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J. WESTBROOK
CHECKED BY:
P. MULLER
SUBMITTED BY:
A. SVITAK
SIZE:
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US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

FLOOD RISK MANAGEMENT PROJECT
UPPER TURKEY CREEK
P2 - 505229

DENTENTION POND OUTFALL DETAILS

SHEET ID

SB302

50%