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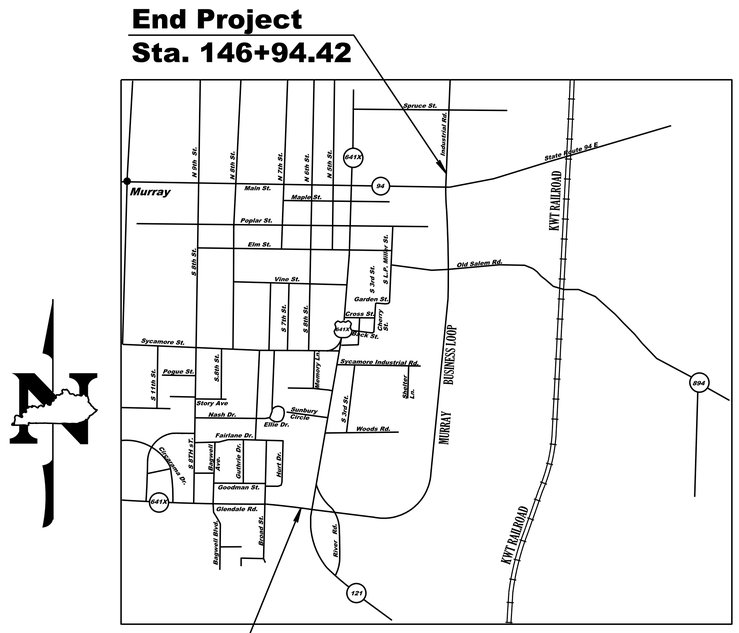
Murray Business Loop

for the

City of Murray, Kentucky

RIGHT-OF-WAY PLANS

End Project
Sta. 146+94.42



Begin Project
Sta. 69+40.90

LAYOUT MAP
N.T.S.

THE CONTROL OF ACCESS ON THIS PROJECT SHALL BE BY PERMIT

STANDARD DRAWINGS

NUMBER:		
	RBB-001-07	RDI-035-01
	RBC-001-08	RDP-001-05
	RBC-002	RDP-005-04
	RCB-003-06	RDP-010-07
	RBI-001-09	RDX-200-02
	RBI-002-06	RDX-210-02
	RBR-001-11	RDX-215-00
	RBR-005-10	
	RBR-010-05	RGX-005-04
	RBR-015-04	RGX-010
	RBR-016-04	RGX-105-05
	RBR-035-07	
		RPM-110-04
	RDB-013-05	
	RDB-014-05	RRE-002-04
	RDB-015-03	
	RDB-016-02	TTC-260-11
		TTC-261-08
	RDD-040-04	
		BBP-001-10
	RDH-020-03	BBP-002-04
		BBP-003-01
	RDI-001-07	
	RDI-020-08	BGX-006-08
	RDI-025-04	

DESIGN CRITERIA

CLASS OF HIGHWAY: URBAN PRINCIPAL ARTERIAL
TYPE OF TERRAIN: ROLLING
DESIGN SPEED: 45 MPH
REQUIRED NPSD: 360
REQUIRED PSD: 1625
LEVEL OF SERVICE:
ADT PRESENT (2005): 1270
ADT FUTURE (2030): 3100
DHV: 330
D %:
T %: 11% PRESENT 14.8% DESIGN

GEOGRAPHIC COORDINATES

LATITUDE 36° DEGREES 36′ MINUTES NORTH
LONGITUDE 88° DEGREES 17′ MINUTES WEST

DESIGNED

% RESTRICTED SD:
LEVEL OF SERVICE:
MAX. DISTANCE W/O PASSING:

LENGTH 7,753.52 LIN. FT. 1.47 MILES	LENGTH ___ LIN. FT. ___ MILES	LENGTH ___ LIN. FT. ___ MILES	LENGTH ___ LIN. FT. ___ MILES	LENGTH ___ LIN. FT. ___ MILES
ADDED / DEDUCTED — FOR EQUALITIES ___ LIN. FT. NOT INCLUDED	ADDED / DEDUCTED — FOR EQUALITIES ___ LIN. FT. NOT INCLUDED	ADDED / DEDUCTED — FOR EQUALITIES ___ LIN. FT. NOT INCLUDED	ADDED / DEDUCTED — FOR EQUALITIES ___ LIN. FT. NOT INCLUDED	ADDED / DEDUCTED — FOR EQUALITIES ___ LIN. FT. NOT INCLUDED
RAILROAD CROSSINGS NO. ___ LIN. FT.	RAILROAD CROSSINGS NO. ___ LIN. FT.	RAILROAD CROSSINGS NO. ___ LIN. FT.	RAILROAD CROSSINGS NO. ___ LIN. FT.	RAILROAD CROSSINGS NO. ___ LIN. FT.
BRIDGES ___ LIN. FT.	BRIDGES ___ LIN. FT.	BRIDGES ___ LIN. FT.	BRIDGES ___ LIN. FT.	BRIDGES ___ LIN. FT.

Mayor:
Bill Wells

City Administrator:
Matt Mattingly

City Engineer:
David Roberts

Project Administrator:
Dennis Thompson

Council Members:
Danny Hudspeth
Greg Taylor
Pat Scott
Dan Miller
Pete Lancaster
Jason Pittman
Linda Cherry
Jay Morgan
Amos McCarty
Robert Billington
Jeremy Bell
Don Elias

RIGHT OF WAY PLANS

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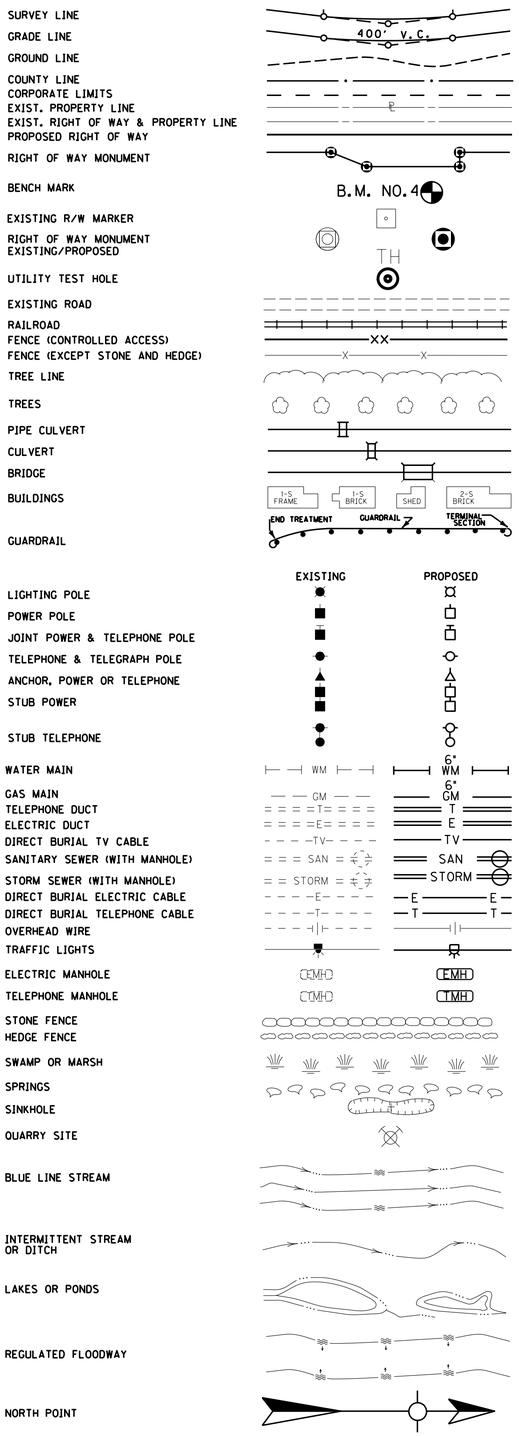
CONVENTIONAL SIGNS



INDEX OF SHEETS

SHEET NO.	DESCRIPTION	SHEET NO.	DESCRIPTION
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2-6	TYPICAL SECTIONS	25	PROFILE SHEET - RAIL CROSSING & MAINLINE
6A	SUMMARY OF QUANTITIES	26	PLAN/PROFILE - RAIL CROSSING & SYCAMORE RD.
7	PLAN SHEET	27	RIGHT-OF-WAY SUMMARY
8	PROFILE SHEET - US 641X & RIVER RD. SOUTH	28-29	RIGHT-OF-WAY PLAN SHEETS
9	PROFILE SHEET - MAINLINE	30-32	RIGHT-OF-WAY STRIP MAPS
10	PLAN SHEET	33-38	E.P.S.C. PLAN SHEETS
11	PROFILE SHEET - MAINLINE	39-41	COORDINATE CONTROL
12	PLAN SHEET	42	GEOMETRIC COORDINATE DESCRIPTIONS
13	PROFILE SHEET - MAINLINE	43-44	R.O.W . COORDINATE LAYOUT DESCRIPTIONS
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15	PROFILE SHEET - MAINLINE	53-56	PIPE SECTIONS - KY. 121
16	PLAN SHEET	57	PIPE SECTIONS - RIVER RD.
17	PROFILE SHEET - MAINLINE & OLD CONCORD RD.	58	PIPE SECTIONS - SYCAMORE RD.
18-19	PLAN SHEETS (20 SCALE)	59	PIPE SECTIONS - KY. 94
20	PROFILE SHEET - MAINLINE & KY. 94	X1-X49	MAINLINE CROSS SECTIONS
		X50-X77	CROSS ROAD CROSS SECTIONS

UTILITIES AND CONTACTS

MURRAY NATURAL GAS SYSTEM
200 ANDRUS DRIVE
MURRAY, KY. 42071
1-270-762-0336

MURRAY ELECTRIC SYSTEM
TERRY McCALLON
401 OLIVE STREET
MURRAY, KY. 42071
1-270-753-5312

SANITARY SEWER SYSTEM
CONTACT: MAX BARNETT
200 ANDRUS DRIVE
MURRAY, KY. 42071
1-270-762-0336

WATER SYSTEM
CONTACT: MAX BARNETT
200 ANDRUS DRIVE
MURRAY, KY. 42071
1-270-762-0336

AT&T
CONTACT: JOHN KAYWOOD
810 KENTUCKY AVE.
PADUCAH, KY 42001
1-270-444-5056

NEW WAVE COMMUNICATIONS
BELAIR SHOPPING CENTER
906 SOUTH 12TH STREET
MURRAY, KY. 42071
CONTACT: CASEY WILLIAMS
1-270-759-9891

T.V.A.
CONTACT: BRIAN WILLIAMS
1101 MARKET ST.
CHATTANOOGA, TN. 37402-2801

WESTERN KENTUCKY RURAL ELECTRIC
CONTACT: TIM VIED
1218 WEST BROADWAY
MAYFIELD, KY. 42066
1-877-495-7322

PARIS BOARD OF PUBLIC UTILITIES
CONTACT: RICHARD EDWARDS
117 EAST WASHINGTON STREET
P.O. BOX 460
PARIS, TN. 38242
1-731-642-1322

KWT RAILWAY
908 DEPOT STREET
PARIS, TN. 38242
1-731-642-7942

MURRAY CITY ENGINEER
CITY HALL BUILDING
104 N 5th ST.
MURRAY, KY. 42071
1-270-762-0330

PROJECT ENGINEER
GEOTECH ENGINEERING & TESTING, iNC.
KEVIN CRIDER, P.E.
500 SOUTH 17th STREET
PADUCAH, KY. 42002
1-270-443-1995

UTILITY DEPTHS ARE ASSUMED

BEFORE YOU DIG

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

RIGHT OF WAY PLANS

PROJECT NO. :
DRAWING BY :
REVISION DATES :
REVISION NOTES :
DATE:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1315 DALTON DRIVE
MURRAY, KENTUCKY 42071
PHONE: 270.753.7307
400 SOUTH 7th STREET
LOUISVILLE, KENTUCKY 40202
PHONE: 270.443.1995
451 NORTH COURT STREET
PARIS, TENNESSEE 38242
PHONE: 615.800.2150
WWW.BFWENGINEERS.COM

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LEGEND, UTILITY CONTACTS & INDEX OF SHEETS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
1

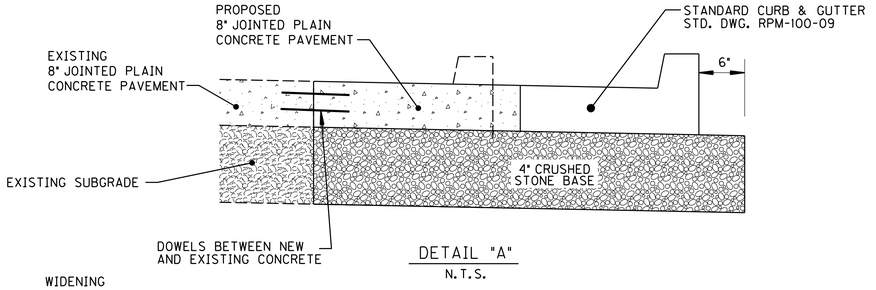
TYPICAL SECTIONS

NOT TO SCALE

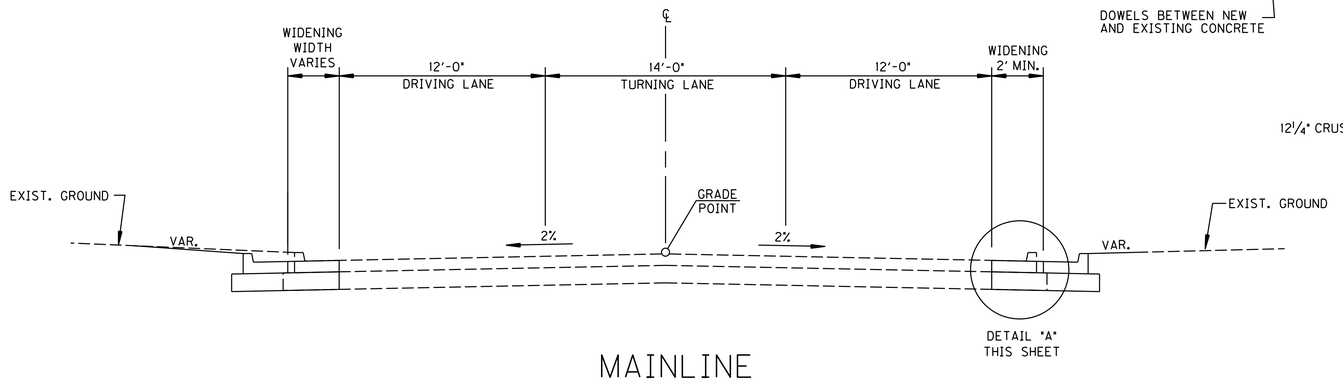
PAVEMENT

4" CRUSHED STONE BASE

8" JOINTED PLAIN CONCRETE PAVEMENT



DETAIL "A"
N.T.S.



12¼" CRUSHED STONE BASE

MAINLINE
CONCRETE CURB AND GUTTER SECTION

N.T.S.

MAINLINE - MURRAY BUSINESS LOOP
STA. 69+40.90 - STA. 70+12.94

PAVEMENT

4" CRUSHED STONE BASE

8" JOINTED PLAIN CONCRETE PAVEMENT

SHOULDERS

FULL DEPTH CRUSHED STONE BASE

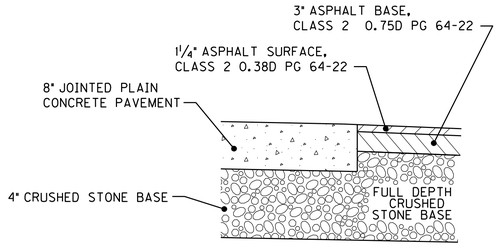
3" ASPHALT BASE, CLASS 2 0.75D PG 64-22

1¼" ASPHALT SURFACE, CLASS 2 0.38D PG 64-22

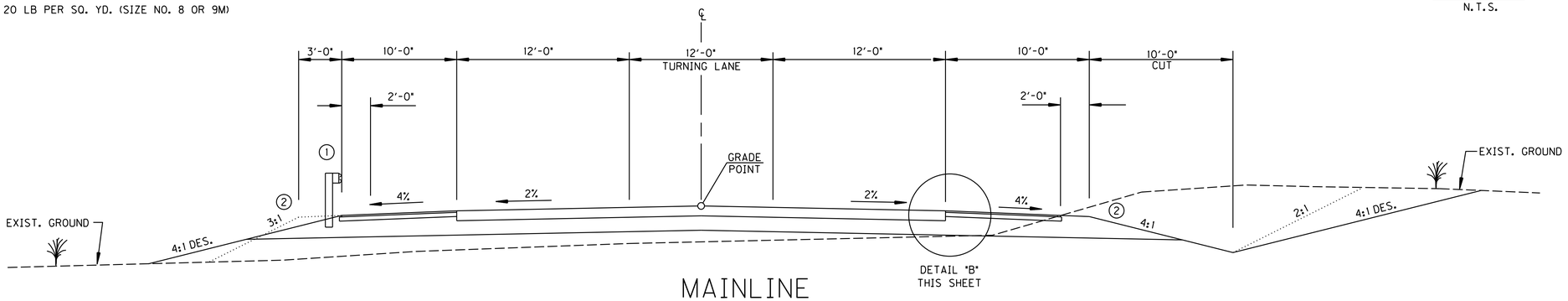
ASPHALT SEAL

(2) ASPHALT SEAL REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2 FT. DOWN THE DITCH OR FILL SLOPE. TWO APPLICATIONS OF THE FOLLOWING:
EMULSIFIED ASPHALT RS-2 @ 2.4 LB PER SQ. YD.

ASPHALT SEAL AGGREGATE @ 20 LB PER SQ. YD. (SIZE NO. 8 OR 9M)



DETAIL "B"
N.T.S.



MAINLINE
CONCRETE SECTION

N.T.S.

MAINLINE - MURRAY BUSINESS LOOP
STA. 70+48.95 - STA. 72+30.00
STA. 142+30 TO STA. 144+03.83

(1) SHOULDER SHALL BE WIDENED 3 FT. WHERE GUARDRAIL IS REQUIRED

RIGHT OF WAY PLANS

DATE:
PROJECT NO.:
DRAWING BY:
REVISION DATES:
REVISION NOTES:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DELOUD DRIVE
NASHVILLE, TENNESSEE 37216
PHONE: (615) 726-0371
400 SOUTH 7TH STREET
SUITE 101
PADUCAH, KENTUCKY 42003
PHONE: (270) 443-3000
400 NORTH COURT STREET
SUITE 101
PARIS, TENNESSEE 38242
PHONE: (731) 642-3000
WWW.BFWENGINEERS.COM

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TYPICALS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
2

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TYPICAL SECTIONS

NOT TO SCALE

PAVEMENT

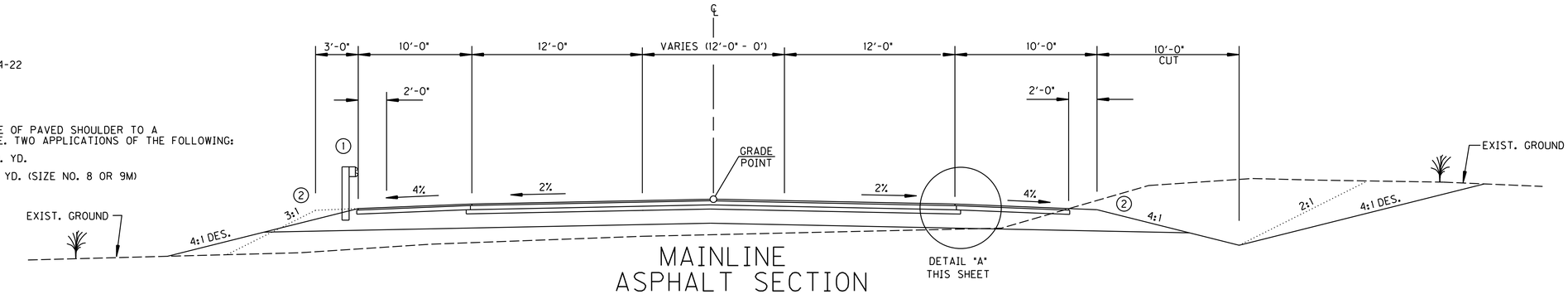
12" CRUSHED STONE BASE
6" ASPHALT BASE (3" + 3"), CLASS 2 0.75D PG 64-22
1¼" ASPHALT SURFACE, CLASS 2 0.38D PG 64-22

SHOULDERS

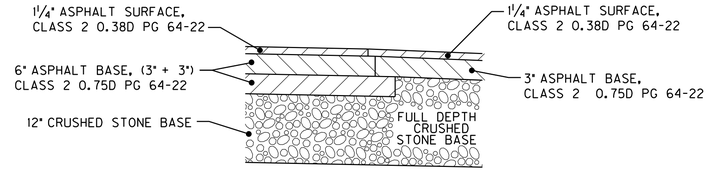
FULL DEPTH CRUSHED STONE BASE
3" ASPHALT BASE, CLASS 2 0.75D PG 76-22
1¼" ASPHALT SURFACE, CLASS 2 0.38D PG 64-22

ASPHALT SEAL

(2) ASPHALT SEAL REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2 FT. DOWN THE DITCH OR FILL SLOPE. TWO APPLICATIONS OF THE FOLLOWING:
EMULSIFIED ASPHALT RS-2 @ 2.4 LB PER SQ. YD.
ASPHALT SEAL AGGREGATE @ 20 LB PER SQ. YD. (SIZE NO. 8 OR 9M)



MAINLINE
ASPHALT SECTION
N.T.S.
MAINLINE - MURRAY BUSINESS LOOP
STA. 72+30.00 - STA. 75+40.00
STA. 107+50.00 - STA. 116+60.00
STA. 124+90.00 - STA. 135+00.00
STA. 139+20.00 - STA. 142+30.00



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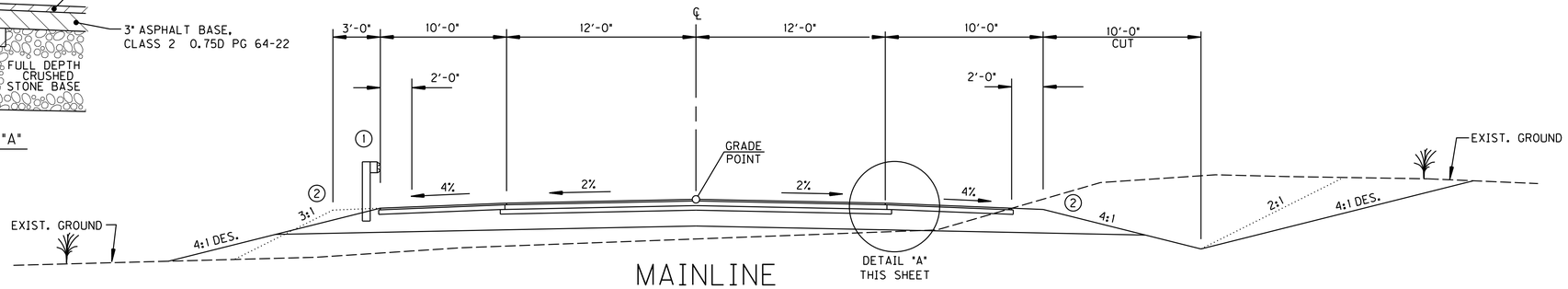
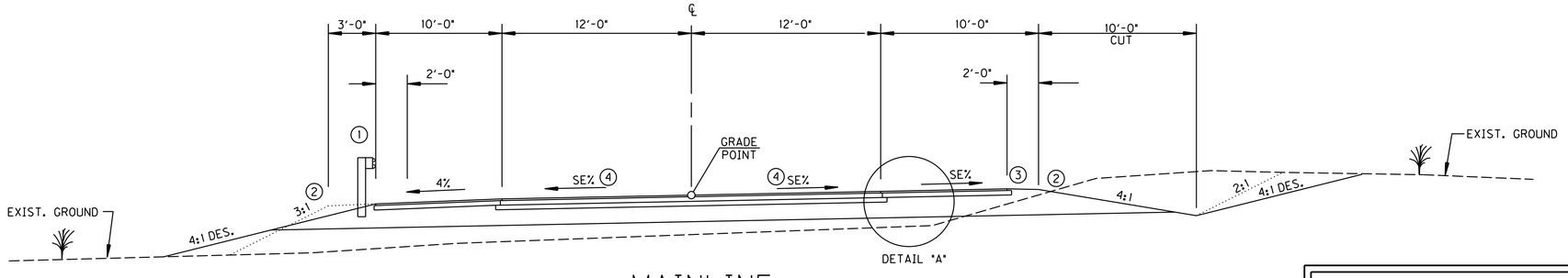


MAINLINE
ASPHALT SECTION
N.T.S.
MAINLINE - MURRAY BUSINESS LOOP
STA. 75+40.00 - STA. 82+60.00
STA. 93+44.27 - STA. 107+50.00
STA. 116+60 - STA. 124+90.00
STA. 135+00.00 - STA. 139+20.00

(1) SHOULDER SHALL BE WIDENED 3 FT. WHERE GUARDRAIL IS REQUIRED
(3) MAXIMUM ROLLOVER IS 7.0%
(4) SEE CROSS SECTIONS FOR SUPERELEVATION



MAINLINE
ASPHALT SECTION
SUPER-ELEVATED
N.T.S.
MAINLINE - MURRAY BUSINESS LOOP
STA. 82+60.00 - STA. 93+44.27

RIGHT OF WAY PLANS

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PROJECT NO.:
DRAWING BY:
REVISION DATES:
REVISION NOTES:
DATE:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1315 DIUGUID DRIVE
MURRAY, KENTUCKY 42071
PHONE: 270.753.7507
500 SOUTH 17th STREET
PADUCAH, KENTUCKY 42003
PHONE: 270.443.1995
403 NORTH COURT STREET
MARION, ILLINOIS 62959
PHONE: 618.997.8190
WWW.BFWENGINEERS.COM

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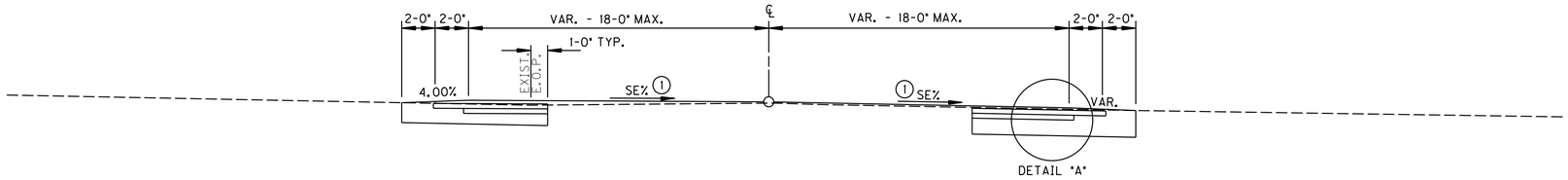
TYPICALS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
3

TYPICAL SECTIONS



MAINLINE
OVERLAY AND WIDENING SECTION

N.T.S.

MAINLINE - MURRAY BUSINESS LOOP
STA. 144+40.07 - STA. 146+94.42

① SEE CROSS SECTIONS FOR SLOPES

PAVEMENT

12" CRUSHED STONE BASE
6" ASPHALT BASE (3" + 3"), CLASS 2 0.75D PG 64-22
1¼" ASPHALT SURFACE, CLASS 2 0.38D PG 64-22

SHOULDERS

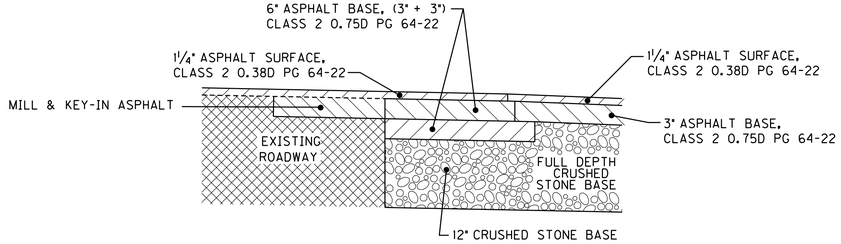
FULL DEPTH CRUSHED STONE BASE
3" ASPHALT BASE, CLASS 2 0.75D PG 76-22
1¼" ASPHALT SURFACE, CLASS 2 0.38D PG 64-22

ASPHALT SEAL

② ASPHALT SEAL REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2 FT. DOWN THE DITCH OR FILL SLOPE. TWO APPLICATIONS OF THE FOLLOWING:

EMULSIFIED ASPHALT RS-2 @ 2.4 LB PER SQ. YD.

ASPHALT SEAL AGGREGATE @ 20 LB PER SQ. YD. (SIZE NO. 8 OR 9M)



DETAIL "A"
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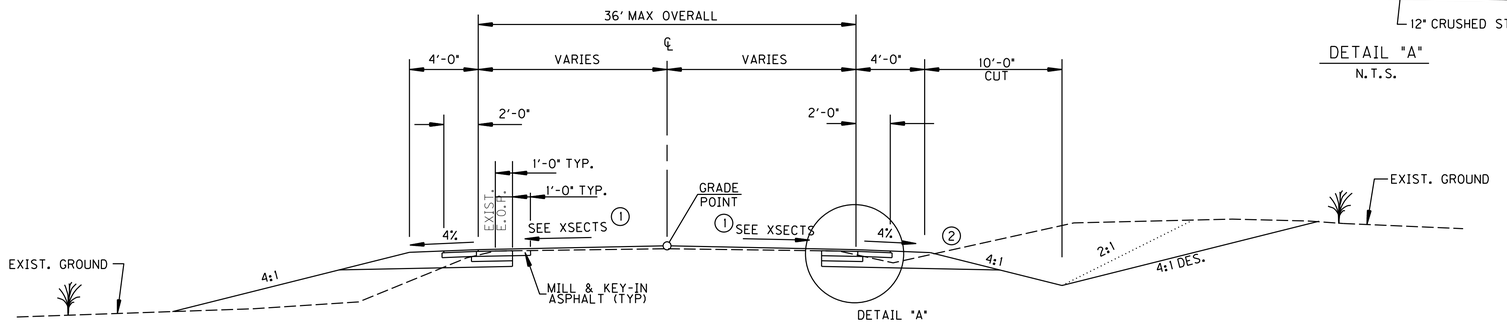

CROSS ROAD
OVERLAY AND WIDENING SECTION

N.T.S.

KY. 121 / US 641x
KY. 94

① SEE CROSS SECTIONS FOR SLOPES

RIGHT OF WAY PLANS

DATE:
PROJECT NO.:
DRAWING BY:
REVISION DATES:
REVISION NOTES:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DAUGHERTY DRIVE, LOUISVILLE, KY 40213 • PHONE: (502) 968-2999
400 SOUTH 7TH STREET, SUITE 101, LOUISVILLE, KY 40202 • PHONE: (502) 625-0000
WWW.BFWENGINEERS.COM

TYPICALS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
4

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TYPICAL SECTIONS

PAVEMENT

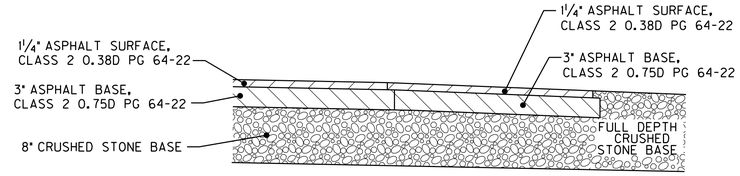
8" CRUSHED STONE BASE
3" ASPHALT BASE, CLASS 2 0.75D PG 64-22
1¼" ASPHALT SURFACE, CLASS 2 0.38D PG 64-22

SHOULDERS

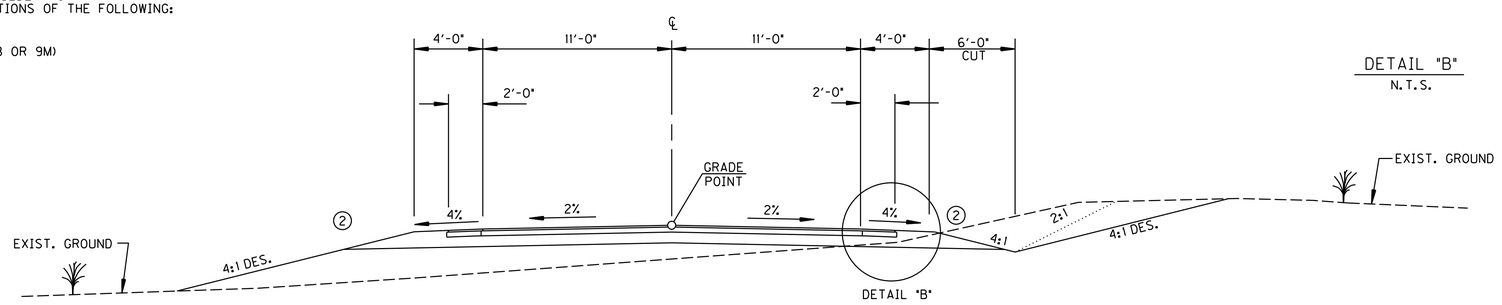
FULL DEPTH CRUSHED STONE BASE
3" ASPHALT BASE, CLASS 2 0.75D PG 64-22
1¼" ASPHALT SURFACE, CLASS 2 0.38D PG 64-22

ASPHALT SEAL

(2) ASPHALT SEAL REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2 FT. DOWN THE DITCH OR FILL SLOPE. TWO APPLICATIONS OF THE FOLLOWING:
EMULSIFIED ASPHALT RS-2 @ 2.4 LB PER SQ. YD.
ASPHALT SEAL AGGREGATE @ 20 LB PER SQ. YD. (SIZE NO. 8 OR 9M)



DETAIL "B"
N.T.S.



CROSS ROAD NORMAL SECTION

N.T.S.

RIVER ROAD
STA. 50+12.18 -STA. 53+40.00

OLD CONCORD ROAD
STA. 57+62.91 - STA. 62+50.00

SYCAMORE INDUSTRIAL ROAD

PAVEMENT

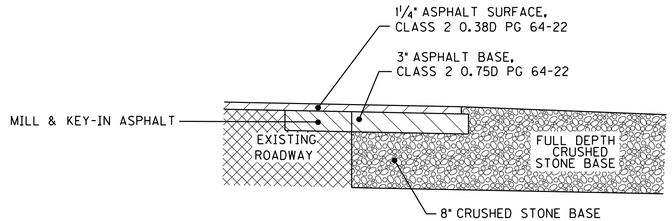
8" CRUSHED STONE BASE
3" ASPHALT BASE, CLASS 2 0.75D PG 64-22
1¼" ASPHALT SURFACE, CLASS 2 0.38D PG 64-22

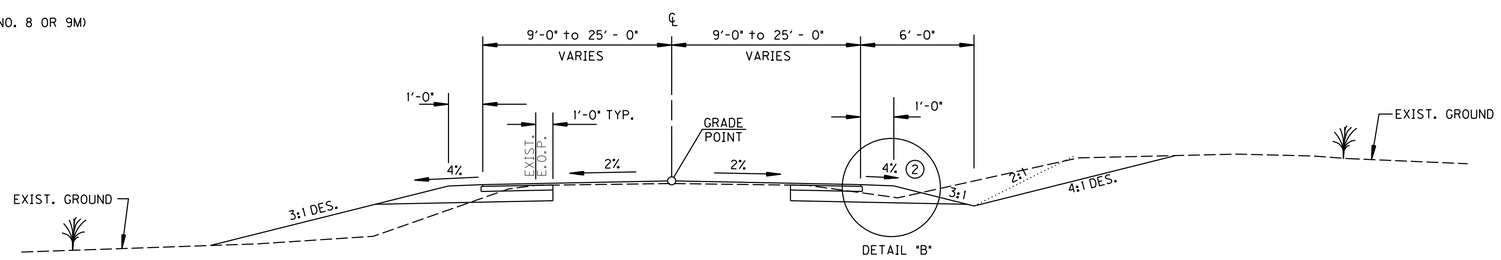
SHOULDERS

FULL DEPTH CRUSHED STONE BASE
3" ASPHALT BASE, CLASS 2 0.75D PG 64-22
1¼" ASPHALT SURFACE, CLASS 2 0.38D PG 64-22

ASPHALT SEAL

(2) ASPHALT SEAL REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2 FT. DOWN THE DITCH OR FILL SLOPE. TWO APPLICATIONS OF THE FOLLOWING:
EMULSIFIED ASPHALT RS-2 @ 2.4 LB PER SQ. YD.
ASPHALT SEAL AGGREGATE @ 20 LB PER SQ. YD. (SIZE NO. 8 OR 9M)





CUL-DE-SAC OVERLAY AND WIDENING SECTION

N.T.S.

RIVER ROAD NORTH CUL-DE-SAC
STA. 5+04.29 - STA. 5+75.00

RIGHT OF WAY PLANS

PROJECT NO.:
DRAWING BY:
REVISION DATES:
REVISION NOTES:
DATE:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

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TYPICALS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
5

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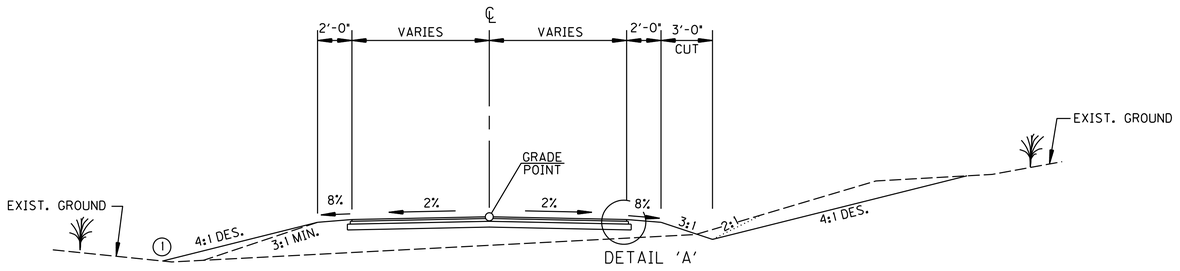
TYPICAL SECTIONS

NOT TO SCALE



DETAIL 'A'

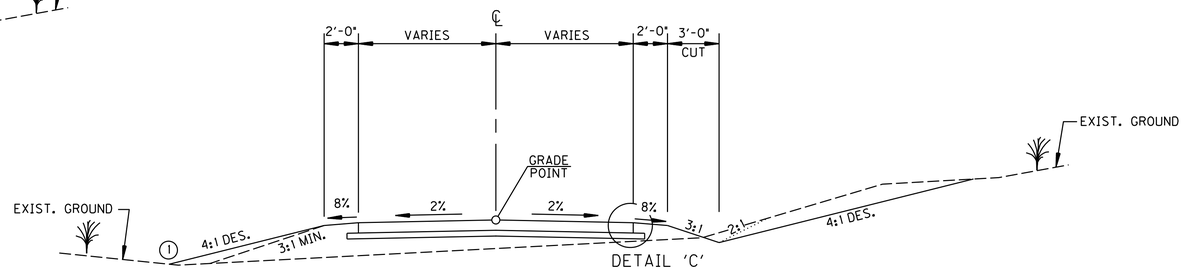
RESIDENTIAL/COMMERCIAL FLEXIBLE PAVEMENT ENTRANCE SECTION

N.T.S.

LT. STA. 54+50.00 US 641X / KY 121
RT. STA. 56+75.00 KY 121
RT. STA. 57+35.00 KY 121
RT. STA. 59+34.27 KY 121
LT. STA. 56+75.00 KY 121
LT. STA. 57+35.00 KY 121
LT. STA. 58+36.00 KY 121
RT. STA. 51+03.82 RIVER RD.
LT. STA. 51+72.22 RIVER RD.
LT. STA. 52+04.90 RIVER RD.

LT. STA. 16+80.00 KY 94
RT. STA. 17+76.00 KY 94
RT. STA. 58+50.00 SYCAMORE INDUSTRIAL RD.
LT. STA. 58+50.00 SYCAMORE INDUSTRIAL RD.
LT. STA. 57+90.00 OLD CONCORD RD.
RT. STA. 58+00.00 OLD CONCORD RD.
RT. STA. 63+25.00 OLD CONCORD RD.
LT. STA. 77+35.00 MAINLINE

RT. STA. 86+50.00 MAINLINE
LT. STA. 97+00.00 MAINLINE
LT. STA. 100+30.00 MAINLINE
RT. STA. 100+30.00 MAINLINE
RT. STA. 112+52.80 MAINLINE
LT. STA. 121+00.00 MAINLINE
RT. STA. 145+69.52 MAINLINE
LT. STA. 145+99.40 MAINLINE



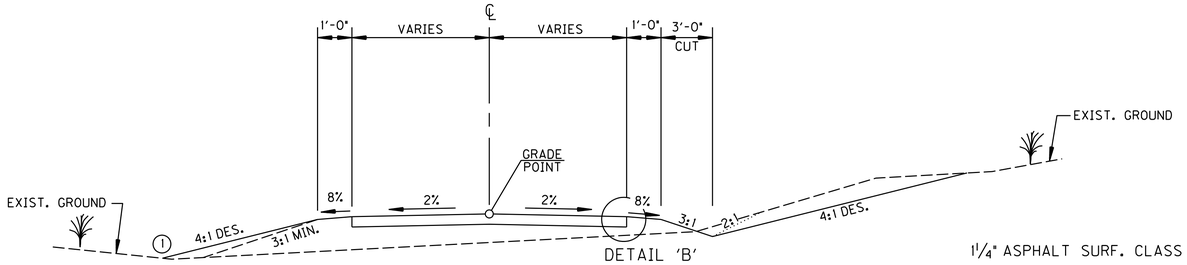
DETAIL 'C'

RESIDENTIAL/COMMERCIAL CONCRETE ENTRANCE SECTION

N.T.S.

RT. STA. 52+58.47 US 641X / KY 121
RT. STA. 52+70.09 US 641X / KY 121
LT. STA. 53+30.49 US 641X / KY 121
LT. STA. 54+30.49 US 641X / KY 121
RT. STA. 54+29.92 US 641X / KY 121

RT. STA 59+05.90 US 64X / KY 121
LT. STA. 13+35.00 KY 94
LT. STA. 14+25.00 KY 94
LT. STA. 145+02.42 MAINLINE

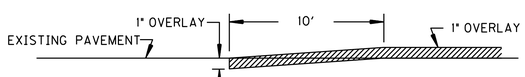


DETAIL 'B'

FIELD ENTRANCE SECTION

N.T.S.

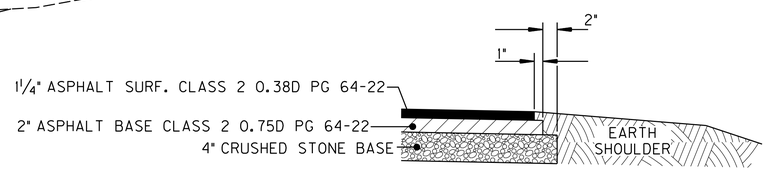
RT. STA. 141+10.62 MAINLINE
LT. STA. 63+25.00 OLD CONCORD RD.



EDGE KEY DETAIL

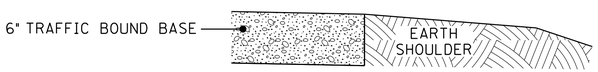
N.T.S.

WORK UNDER THIS ITEM SHALL INCLUDE CUTTING OUT THE EXISTING ASPHALT SURFACE TO A MINIMUM DEPTH AND WIDTH AS SHOWN, SO THE NEW SURFACE MAY HEEL INTO THE EXISTING SURFACE. THE CONTRACT UNIT PRICE BID PER LINEAR FOOT FOR "EDGE KEY" SHALL INCLUDE ALL NECESSARY MATERIALS, LABOR, EQUIPMENT, ETC. TO PERFORM THE WORK AND DISPOSE OF THE ASPHALT MATERIAL REMOVED.



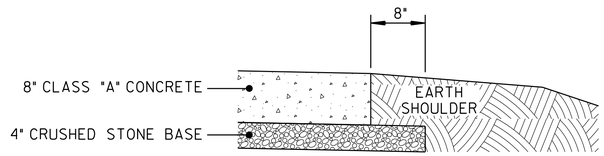
DETAIL 'A'

N.T.S.



DETAIL 'B'

N.T.S.



DETAIL 'C'

N.T.S.

RIGHT OF WAY PLANS

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DATE:
PROJECT NO.:
DRAWING BY:
REVISION DATES:
REVISION NOTES:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DAUGHERTY DRIVE, BARDSTOWN, KENTUCKY 40004 • PHONE: (502) 348-3871
400 SOUTH 7TH STREET, SUITE 101, LOUISVILLE, KENTUCKY 40202 • PHONE: (502) 625-0080
WWW.BFWENGINEERS.COM

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TYPICALS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
6

GENERAL SUMMARY

ITEM CODE	ITEM	UNIT	MAINLINE	KY 121	RIVER RD.	SYCAMORE	KY 94	OLD CONCORD	TOTAL PROJECT
	ROADWAY								
2230	EMBANKMENT IN PLACE	CU YD							
2242	WATER FOR DUST CONTROL	M GAL							
2351	GUARDRAIL - STEEL W BEAM - S FACE	LIN FT							
2391	GUARDRAIL END TREATMENT TYPE 4A	EACH							
2434	R/W RURAL MARKER TYPE 1	EACH	51	8	7	10	7	13	96
2483	CHANNEL LINING CLASS II	TON							
2484	CHANNEL LINING CLASS III	TON							
2545	CLEARING AND GRUBBING	LP SUM	1	1	1	1	1	1	1
2568	MOBILIZATION	LP SUM	1	1	1	1	1	1	1
2569	DEMOBILIZATION	LP SUM	1	1	1	1	1	1	1
2585	EDGE KEY	LIN FT	62	41.2	17.6	30	45.8	34.8	231.4
2596	FABRIC - GEOTEXTILE TYPE I	SQ YD							
2599	FABRIC - GEOTEXTILE TYPE IV	SQ YD							
2726	STAKING	LP SUM	1	1	1	1	1	1	1
2731	REMOVING EXISTING STRUCTURE	LP SUM	1	1	1	1	1	1	1
5953	TEMP SEEDING AND PROTECTION	SQ YD							
5986	SEEDING AND PROTECTION METHOD 2	SQ YD							
5966	TOPDRESSING FERTILIZER	TON							
5989	SPECIAL SEEDING CROWN VETCH	SQ YD							
5990	SODDING	SQ YD							
20588NC	INSTALL PROJECT IDENTIFICATION SIGNS	EACH							
8100	CONCRETE-CLASS A	CU YD							
8150	STEEL REINFORCEMENT	LB							
X	12' X 6' RCBC W/ WINGWALLS - 81 LF	LP SUM							
X	DBL. 12' X 5' RCBC W/ WINGWALLS - 76 LF	LP SUM							
X	4' X 2.5' RCBC W/ GRATED INLET	LP SUM							
X	4'X4' BOX CULVERT EXTENSION W/ 2 WINGWALLS - 27 LF	LP SUM							
X	ADJUST DROP BOX INLET	EACH							
X	AT-GRADE RAILROAD CROSSING	LIN FT							
X	RAILROAD CROSSING SIGNAL ASSEMBLY	EACH							
X	ROADWAY INTERSECTION SIGNALIZATION (KY 121, KY 94)	EACH							
	MAINTENANCE OF TRAFFIC								
2562	SIGNS	SQ FT							
2650	MAINTAIN AND CONTROL TRAFFIC	LP SUM							
2014	BARRICADE TYPE III	EACH							
6514	PAVE STRIPING-PERM PAINT-4 IN	LIN FT							

ITEM CODE	ITEM	UNIT	MAINLINE	KY 121	RIVER RD.	SYCAMORE	KY 94		TOTAL PROJECT
	EROSION CONTROL								
2701	SILT FENCE	LIN. FT.							
2704	SILT TRAP TYPE B	EACH							
9158	SILT CHECK TY. II (MODIFIED)	EACH							
2707	CLEAN SILT TRAP TYPE B	EACH							
2709	CLEAN SILT FENCE	LIN. FT.							
9159	CLEAN SILT CHECK TY. II (MODIFIED)	EACH							
5950	EROSION CONTROL BLANKET	SQ YD							
5952	TEMPORARY EROSION CONTROL - MULCH	TON							
X	4'X4' RCBC EXT. LT. STA. 53+89.40 KY 121	LP SUM							
X	12'X6' RCBC STA. 98+64 MAINLINE	LP SUM							

EMBANKMENT

XXXX.X CU YD EMBANKMENT
XXXX.X CU YD EMBANKMENT BENCHING
XXXX.X CU YD TOTAL EMBANKMENT

EXCAVATION

XXXX.X CU YD EXCAVATION
XXXX.X CU YD EMBANKMENT BENCHING
XXXX.X CU YD SURFACE DITCH
XXXX.X CU YD TOTAL EXCAVATION

XXXX.X CU YD EMBANKMENT
XXXX.X CU YD EXCAVATION
XXXX.X CU YD BORROW

RIGHT OF WAY PLANS

DATE:
PROJECT NO.:
DRAWING BY:
REVISION DATES:
REVISION NOTES:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1315 BUSG BOWLING GREEN, KENTUCKY 42101 • PADUCAH, KENTUCKY 42003 • 859 SOUTH 11TH STREET MURRAY, KENTUCKY 42071 • PHONE: 270.753.6613
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GENERAL SUMMARY

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
6A

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PAVING AREAS

ITEM	MAINLINE	RIVER RD.	SYCAMORE ST.	OLD CONCORD RD.	KY 94	ENTRANCES						TOTAL PROJECT
	S	Q	U	A	R	E		Y	A	R	D	S
4" CRUSHED STONE BASE												
FULL DEPTH CRUSHED STONE BASE												
2" ASPHALT BASE, CLASS I 0.75D PG 64-22												
3½" ASPHALT BASE, CLASS I 0.75D PG 64-22												
3½" ASPHALT BASE, CLASS I 0.75D PG 64-22 (SHOULDERS)												
1 1/4 " ASPHALT SURFACE, CLASS I 0.38D PG 76-22												
1 1/4 " ASPHALT SURFACE, CLASS I 0.38D PG 76-22 (SHOULDERS)												
EMULSIFIED ASPHALT RS-2 @ 2.4 LB PER SQ. YD.												
ASPHALT SEAL AGGREGATE @ 20 LB PER SQ. YD. (SIZE NO. 8 OR 9M)												
TACK COAT @ 0.32 LB PER SQ. YD.												

PAVING SUMMARY

ITEM CODE	ITEM	UNIT	MAINLINE	CROSSROADS	ENTRANCES		TOTAL PROJECT
149	ASPHALT SURFACE CLASS I-0.75D PG 64-22	TON					
154	ASPHALT SURFACE, CLASS I 0.38D PG 64-22	TON					
120	ASPHALT BASE, CLASS I 0.75D PG 64-22	TON					
3	CRUSHED STONE BASE	TON					
100	BITUMINOUS SEAL AGGREGATE	TON					
291	EMULSIFIED ASPHALT RS-2	TON					
356	TACK COAT	TON					
X	ASPHALT SURFACE, CLASS I 0.38D PG 76-22	TON					

RIGHT OF WAY PLANS

PROJECT NO. :
DRAWING BY :
REVISION DATES :
REVISION NOTES :
DATE:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1315 BUGG BOWL
MURRAY, KENTUCKY 42071 • PADUCAH, KENTUCKY 42003 • 600 SOUTH 7TH STREET
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PAVING SUMMARY

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
6B

PIPE DRAINAGE SUMMARY

SHEET NO.	LOCATION	SKEW	COVER HEIGHT	DESIGN pH LEVEL	ENTRANCE PIPE						CULVERT PIPE						STORM SEWER PIPE		MISCELLANEOUS						REMARKS
					12 INCH	15 INCH	18 INCH	18" EQUIV.	24" INCH	24" EQUIV.	18 INCH	24 INCH	30 INCH	36 INCH	42 INCH	48 INCH	15 INCH	18 INCH	CBI TY A	DBI TY 5B	DBI TY 6D	DBI TY II	JB - 30 INCH	JB TYPE B	
	ITEM CODE				439	440	441	451	443	452	462	464	466	468	469	470	521	522	1456	1505	1529	1544	1544	1544	
	UNIT TO BID ON		FT.		LINEAR FEET																				
8	LT STA. 52+30 KY 121			M														15				1			
8	RT. STA. 53+00 KY 121			M														62				1			
8	LT. STA. 53+00 KY 121			M														63				1			
8	LT STA. 51+46.25 RIVER RD.	0°	3	M		45																			
8	RT. STA. 52+13.63 RIVER RD.	0°		M				30																	
8	LT. STA. 52+47.62 RIVER RD.	0°	1.2	M		32																			
8	LT. STA. 53+08.49 RIVER RD.	0°	1.1	M		20																			
8	RT. STA. 69+53.6 MAINLINE	0°		M														35	1						
8	STA. 76+00 MAINLINE	15° LT	4.2	M												92									2- HDWLS @ 15° SKEW
13	STA. 82+50 MAINLINE	0°	2.8	M								80													2- SLP'D & FLARED HDWLS
13	RT. STA. 86+50 MAINLINE	0°		M		54																			
13	STA. 89+50 MAINLINE	0°	5.6	M								92													2- SLP'D & FLARED HDWLS
13	STA. 93+00 MAINLINE	0°	5.9	M								95													2- SLP'D & FLARED HDWLS
15	STA. 96+50 MAINLINE	0°	5.0	M								83													2- SLP'D & FLARED HDWLS
15	STA. 100+30 MAINLINE	0°	2.4	M			40																		
15	STA. 109+24 MAINLINE	20° LT	2.8	M									72												2- HDWLS @ 15° SKEW
17	RT. STA. 59+00 SYCAMORE	0°	0.7	M		35																			
17	LT. STA. 59+00 SYCAMORE	0°	0.8	M		35																			
17	STA. 60+50 SYCAMORE	0°	2.1	M							55														
17	STA. 114+50 MAINLINE	0°	1.8	M								70													2- SLP'D & FLARED HDWLS
17	STA. 119+05 MAINLINE	5° LT	2.1	M											69										
19	STA. 127+33.50 MAINLINE	0°	2.7	M								77													2- SLP'D & FLARED HDWLS
19	STA. 129+84.40 MAINLINE	5° LT	1.3	M								74													2- SLP'D & FLARED HDWLS
21	LT. STA. 57+90 OLD CONCORD	0°	1.0	M						36															
21	RT. STA. 58+00 OLD CONCORD	0°	1.0	M						36															
21	LT. STA. 63+25 OLD CONCORD	0°	1.0	M	64																				
21	RT. STA. 63+25 OLD CONCORD	0°	0.9	M	66																				
21	STA. 130+54.40 MAINLINE	0°	1.6	M								76													2- SLP'D & FLARED HDWLS
21	STA. 132+50 MAINLINE	0°	3.1	M							71														2- SLP'D & FLARED HDWLS
21	STA. 134+53.50 MAINLINE	5° RT	2.5	M								67													2- SLP'D & FLARED HDWLS
21	STA. 138+94 MAINLINE	0°	2.4	M								71													2- SLP'D & FLARED HDWLS
21	LT. STA. 141+39.49 MAINLINE	0°	0.9	M					47																
	PROJECT TOTALS				130	221	40	30	47	72	126	785	72		69	92		175	1			3			

RIGHT OF WAY PLANS

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PROJECT NO. :
DRAWING BY :
REVISION DATES :
REVISION NOTES :
DATE:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1315 BUCKSBOROUGH PLACE • KNOXVILLE, TENNESSEE 37919 • (865) 584-0999
200 SOUTH 7TH STREET • PADUCAH, KENTUCKY 42003 • (270) 443-8778
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PIPE DRAINAGE SUMMARY

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
6C

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BEGIN CONSTRUCTION
STA. 50+91.87

RT. STA. 52+58.47 US 641x / KY 121
CONSTRUCT 24' ENTRANCE
WITH 11.7 CY OF CONCRETE AND
12.1 TONS OF CRUSHED STONE BASE.

RT. STA. 54+29.92 US 641x / KY 121
CONSTRUCT 40' ENTRANCE
WITH 4.0 TONS OF ASPH. PAVEMENT
6.4 TONS OF ASPH. BASE AND
13.4 TONS OF CRUSHED STONE BASE.

LT. STA. 52+70.09 US 641x / KY 121
CONSTRUCT 32' ENTRANCE
WITH 13.3 CY OF CONCRETE AND
13.8 TONS OF CRUSHED STONE BASE.

LT. STA. 53+30.49 US 641x / KY 121
CONSTRUCT 32' ENTRANCE
WITH 11.6 CY OF CONCRETE AND
12.0 TONS OF CRUSHED STONE BASE.

CONSTRUCT 20.6 LF OF EDGE KEY KY 121

LT. STA. 54+50.00 US 641x / KY 121
CONSTRUCT 16' ENTRANCE
WITH 4.2 TONS OF ASPH. PAVEMENT
6.8 TONS OF ASPH. BASE AND
14.2 TONS OF CRUSHED STONE BASE.

LT. STA. 74+12.89 STA. 75+84.43
CONSTRUCT 100 LF OF GUARDRAIL-
STEEL W BEAM-SINGLE FACE AND
2 - TYPE 4A END TREATMENTS

RT. STA. 51+27.31 US 641x / KY 121
CONSTRUCT 24' ENTRANCE
WITH 2.81 TONS OF ASPH PAVEMENT
4.5 TONS OF ASPH. BASE AND
9.41 TONS OF CRUSHED STONE BASE.

RT. STA. 51+80.31 US 641x / KY 121
CONSTRUCT 24' ENTRANCE
WITH 2.81 TONS OF ASPH PAVEMENT
4.5 TONS OF ASPH. BASE AND
9.41 TONS OF CRUSHED STONE BASE.

STA. 55+79.35 KY 121 / US 641x =
STA. 70+30.94 MAINLINE

BEGIN CONSTRUCTION
STA. 69+40.90

STA. 50+00.00 RIVER ROAD =
STA. 75+72.97 MAINLINE

RT. STA. 56+75.00 - KY. 121
CONSTRUCT 40' ENTRANCE
WITH 5.1 TONS OF ASPH. PAVEMENT
8.1 TONS OF ASPH. BASE AND
16.9 TONS OF CRUSHED STONE BASE

RT. STA. 57+35.00 - KY. 121
CONSTRUCT 42' ENTRANCE
WITH 5.7 TONS OF ASPH. PAVEMENT
9.1 TONS OF ASPH. BASE AND
19.0 TONS OF CRUSHED STONE BASE

RT. STA. 59+34.27 - KY. 121
CONSTRUCT 15' ENTRANCE
WITH 2.1 TONS OF ASPH. PAVEMENT
3.3 TONS OF ASPH. BASE AND
7.0 TONS OF CRUSHED STONE BASE

CONSTRUCT 20.6 LF OF EDGE KEY KY 121

P.I. 62+73.83
X = 890604.3727
Y = 1745275.2996
D = 62° 22'36.00"
C = 5° 28'58.26"
T = 632.58'
L = 1137.67'
R = 1045.00'
Es = 176.55'
Se = See Xsects

END CONSTRUCTION
STA. 60+63.20

LT. STA. 56+75.00 - KY. 121
CONSTRUCT 40' ENTRANCE
WITH 4.0 TONS OF ASPH. PAVEMENT
6.4 TONS OF ASPH. BASE AND
13.4 TONS OF CRUSHED STONE BASE

LT. STA. 57+35.00 - KY. 121
CONSTRUCT 40' ENTRANCE
WITH 4.5 TONS OF ASPH. PAVEMENT
7.3 TONS OF ASPH. BASE AND
15.2 TONS OF CRUSHED STONE BASE

LT. STA. 58+36.00 - KY. 121
CONSTRUCT 25' ENTRANCE
WITH 3.6 TONS OF ASPH. PAVEMENT
5.6 TONS OF ASPH. BASE AND
12.0 TONS OF CRUSHED STONE BASE

LT. STA. 59+05.90 - KY. 121
CONSTRUCT 16' ENTRANCE
WITH 2.9 TONS OF ASPH. PAVEMENT
4.6 TONS OF ASPH. BASE AND
9.6 TONS OF CRUSHED STONE BASE

RT. STA. 51+72.22 - RIVER RD.
CONSTRUCT 16' ENTRANCE
WITH 3.7 TONS OF ASPH. PAVEMENT
5.9 TONS OF ASPH. BASE AND
12.4 TONS OF CRUSHED STONE BASE
24' OF 18" EQUIVALENT ENTRANCE PIPE.

CONSTRUCT 17.6 LF OF EDGE KEY RIVER RD.

MAINLINE
P.I. 76+54.58
X = 891332.1463
Y = 1745857.6845
D = 10° 07'49.07"
C = 0° 57'58.33"
T = 525.60'
L = 1048.47'
R = 5930.00'
Es = 23.25'
Se = N.C.

SEE SHEET 8 FOR KY 94/ US 641X PROIFLE

SEE SHEET 8 FOR RIVER ROAD PROIFLE

RIVER ROAD
P.I. 52+32.06
X = 891273.3033
Y = 1745656.3492
D = 3° 48'08.56"
C = 1° 54'35.49"
T = 99.58'
L = 199.09'
R = 3000.00'
Es = 1.65'
Se = N.C.

LT. STA. 51+03.82 - RIVER RD.
CONSTRUCT 15' ENTRANCE
WITH 5.2 TONS OF ASPH. PAVEMENT
8.4 TONS OF ASPH. BASE AND
17.9 TONS OF CRUSHED STONE BASE
45' OF 15" ENTRANCE PIPE.

LT. STA. 52+04.90 - RIVER RD.
CONSTRUCT 22' ENTRANCE
WITH 5.3 TONS OF ASPH. PAVEMENT
8.6 TONS OF ASPH. BASE AND
17.9 TONS OF CRUSHED STONE BASE
32' OF 15" ENTRANCE PIPE.

RIGHT OF WAY PLANS

54+73

BEFORE YOU DIG

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

SCALE 1" = 50'

PROJECT NO. : 05093
DRAWING BY :
REVISION DATES :
REVISION NOTES :
DATE:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
100 SOUTH 11th STREET
LOUISVILLE, KENTUCKY 40202 • (502) 589-6987
401 NORTH COURT STREET
MARION, ILLINOIS 62959 • (618) 997-1344
WWW.BFWENGINEERS.COM

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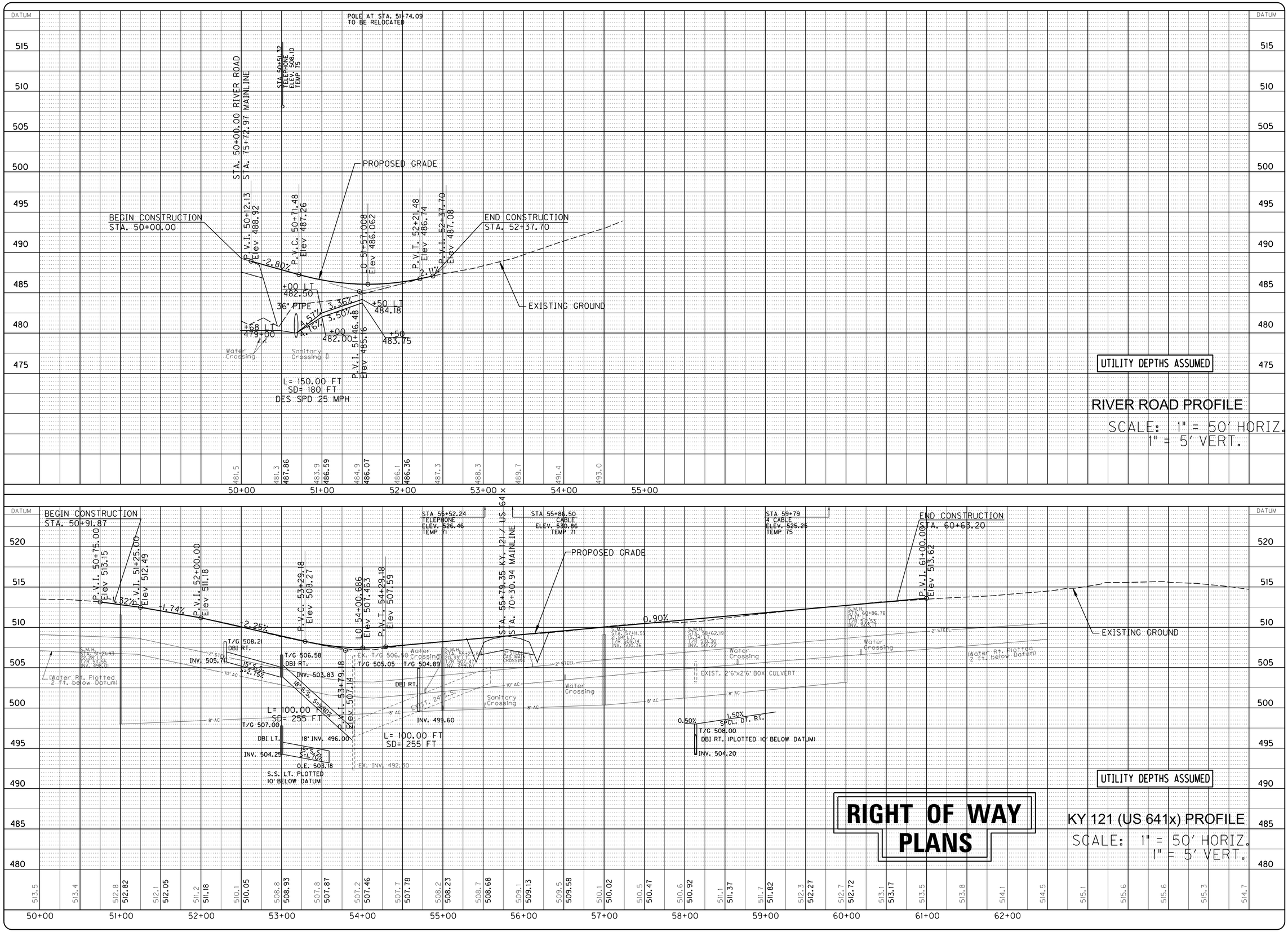
PLAN - B.O.P. TO STA. 80+00

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
7



PROJECT NO.: 05093 DATE:
DRAWING BY:
REVISION DATES:
REVISION NOTES:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

PROFILE - KY 121 (US 641x) & RIVER ROAD

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
8

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DATUM

POLE AT STA. 72+70.61
TO BE RELOCATED

POLES AT STA. 74+72.06
TO BE RELOCATED

BEGIN CONSTRUCTION
STA. 69+40.90

P.V.I. 69+40.90
Elev 509.21

P.V.I. 69+82.98
Elev 508.58

P.V.I. 70+30.94
Elev 508.94

P.V.I. 70+48.97
Elev 508.53

STA 69+93.37
TELEPHONE
ELEV. 529.22
TEMP 71

STA 69+93.37
TELEPHONE
ELEV. 526.89
TEMP 266

STA. 55+79.35 KY. 121 / US. 641
STA. 70+30.94 MAINLINE

L= 260.00 FT
SD= 400 FT

P.V.I. 72+82.17
Elev 505.03

STA. 75+00
POWER
ELEV. 505.03
TEMP
75

P.V.C. 71+52.17
Elev 506.98

P.V.C. 75+19.08
Elev 492.00

STA. 50+00.00 RIVER ROAD
STA. 75+72.97 MAINLINE

P.V.I. 74+12.17
Elev 497.88

P.V.I. 78+84.08
Elev 480.32

P.V.I. 77+01.58
Elev 481.97

-1.50%
0.75%
2.26%
-1.50%
+75
498.00
2' F.B. SPCL. DT. LT.
7.55%
-5.50%
+00
485.25
2' F.B. SURF
DT. RT
+50
481.80
7.50%
+25
482.24
48" PIPE
-1.10%
1.80%
-0.90%
+00
481.00
+00
481+50
+00
481.25
2' F.B. SURF DT. LT.
2.96%
1.84%
+00
479.45
+50
475.00
+00
472.24
TO RIVER RD.

EXISTING GROUND
PROPOSED GRADE

(Gas Lt. Plotted 2 ft. above Datum)
(Water Lt. Plotted 1 ft. above Datum)
(Gas Rt. Plotted 1 ft. below Datum)

2" STEEL Gas Main Crossing
2" STEEL
2" PVC
8" PVC
2" STEEL
8" PVC
8" PVC

S.M.H.
STA. 69+72.57
28.86' RT.
F/R 509.04
INV. 502.40

STA. 69+72.92
45.84' LT.
Water Crossing
INV. 502.22

8" PVC
Sanitary Crossing

F/L 508.52
CBI LT
INV. 504.45
F/L 507.92
INV. 503.81
(STORM SEWER LT. PLOTTED 20' BELOW DATUM)

F/L 508.45
CBI RT.
INV. 503.95
F/L 507.92
INV. 503.09
EXIST. 18" PIPE
(STORM SEWER RT. PLOTTED 30' BELOW DATUM)

Water Crossing
Sanitary Crossing

UTILITY DEPTHS ASSUMED

RIGHT OF WAY PLANS

MAINLINE PROFILE

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

| | | |

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MATCHLINE STA. 80+00

80+00

CARRLA JO STOKES

MAINLINE
P.I. 76+54.58
X = 891332.1463
Y = 1745857.6845
D = 10°07'49.07"
C = 0°57'58.33"
T = 525.60'
L = 1048.47'
R = 5930.00'
Es = 23.25'
Se = N.C.

PT 81+77.44

S88°08'41"E 764.48'

18 CARRLA JO STOKES

L.E. 471.10

PERM. ESMT. N89°40'38"E 99.59'

PC 83+87.17

P.I. 88+86.99

PT 92+55.21

PC 94+31.31

MATCHLINE STA. 95+00

95+00

90+00

KWT RAILWAY
25

CULTIVATED FIELD

WRUS, INC.
22

TO BE REMOVED
1-STY.
BLK. DLDG.

L.E. 466.78

L.E. 464.80

PROP. R/W

R 640.00
L 787.6985 N53°34'13"E
LC 738.91

R 760.00
L 942.5073 S53°50'18"W
LC 883.26

2' F.B. SURF DT.

2' F.B. SILT DT.

15" PIPE

TEMP. ESMT.

PERM. DRAINAGE ESMT. N17°41'29"W 245'

PERM. DRAINAGE ESMT. S50°37'42"E 80.00'

S39°12'09"W 42'

S16°18'39"W 45.00'

S16°18'39"W 116.04'

N16°18'39"E 116.04'

N16°18'39"E 45.50'

S.E. 464.50

S.E. 466.78

ST 171+69.89

SC 171+90.24

PI 171+30.75

N89°21'57"E

N89°40'38"E

N89°16'07"W 115.42'

N89°16'07"W 99.25'

S89°23'38"W 600.03'

S.E. 470.88

C.P. 6234

TERESA BAST
19

RONIE BAST AND WIFE TERESA
20

WRUS, INC.
22

KWT RAILWAY
25

P.I. 88+86.99
X = 892567.2167
Y = 1745871.3555
D = 71°03'17.47"
C = 8°11'06.40"
T = 499.81'
L = 868.10'
R = 700.00'
Es = 160.12'
Se = 4.00%

PI 88+86.99

CLARKS RIVER

RT. STA. 86+50.00 CONSTRUCT 16' ENTRANCE WITH 10.55 TONS OF ASPH. PAVEMENT, 16.89 TONS OF ASPHALT BASE, 35.31 TONS OF CRUSHED STONE BASE AND 48' OF 15" ENTRANCE PIPE

RIGHT OF WAY PLANS

BEFORE YOU DIG

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

SCALE 1" = 50'

PROJECT NO. : 05093
DRAWING BY :
REVISION DATES :
REVISION NOTES :
DATE:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1211 BAGLEY DRIVE, LEXINGTON, KENTUCKY 40511 • PHONE: (859) 422-3000 • FAX: (859) 422-3005
400 SOUTH 7TH STREET, SUITE 200, LOUISVILLE, KENTUCKY 40202 • PHONE: (502) 736-2500 • FAX: (502) 736-2501
WWW.BFWENGINEERS.COM

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PLAN - STA. 80+00 TO STA. 95+00

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
10

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DATUM 505 500 495 490 485 480 475 470 465 460

-0.90%

1.20% 0.36% 2' FB SURF DT LT

+50 471.64

+00 471.10

24" PIPE

4.20% 1.74%

+50 469.00

+00 469.87

+40.51 469.30

P.V.C. 83+29.61 Elev 476.3

9.60% 1.01%

+00 468.87

L= 200.00 FT

P.V.I. 84+29.61 Elev 475.41

+00 467.86

P.V.T. 85+29.61 Elev 475.30

PROPOSED GRADE

EXISTING GROUND

-0.11%

0.64% 2.88%

+25 469.65

+50 469.49

+00 468.05

2' FB SURF DT RT

0.72%

2' FB SILT DT RT

+50 466.97

15" PIPE

+00 466.87

NOTE: RIGHT DITCH PLOTTED 10' BELOW DATUM

0.50% 0.80% 2' FB SURF DT LT

+00 467.60

+50 467.35

2.52% 1.94%

+50 466.54

+00 465.28

36" PIPE

+50 466.25

2' FB SURF DT RT

0.76% 2.52% 3.38%

+00 466.41

+50 466.03

+00 464.80

+50 466.49

0.50% 2' FB SURF DT LT

+00 465.00

2.20% 0.10% 0.40% 2' FB SURF DT LT

36" PIPE

+50 466.10

+00 466.13

+50 466.02

2' FB SURF DT RT

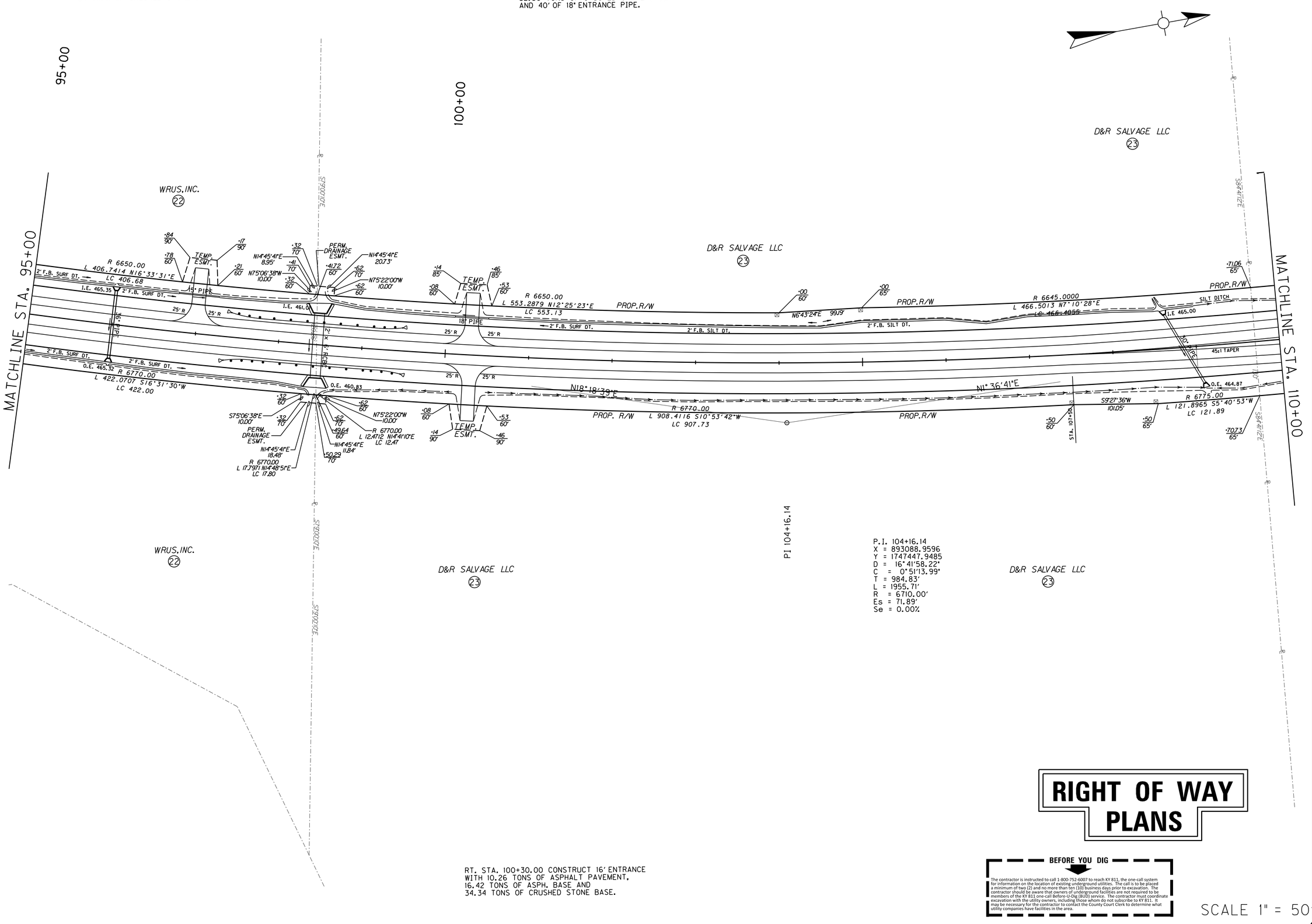
3.04% 2.90%

+00 464.50

+50 465.95

NOTE: RIGHT DITCH PLOTTED 10' BELOW DATUM

| | | |



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PROJECT NO.: 05093 DATE:
DRAWING BY:
REVISION DATES:
REVISION NOTES:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

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PLAN - STA. 95+00 TO STA. 110+00

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
12

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DATUM

495
490
485
480
475
470
465
460

STA 107+82.65
ELECTRIC
ELEV. 524.96
TEMP 92°

STA 108+41.44
ELECTRIC
ELEV. 489.48
TEMP 92°

PORPOSED GRADE

-0.11%

2' FB SURF DT LT

0.40%

36" PIPE

+00
465.35

15" PIPE
2' FB SILT DT. LT

+50
465.00

7.46%

12'X6' RCBC
+46.78
461.01

5.98%

+00
464.00

2.00%

+50
465.00

18" PIPE
2' FB SILT DT. LT

+50
465.30

EXISTING GROUND

30" PIPE

+00
465.30

+84.43
465.00

+50
465.36

0.44%

+50
465.56

1.16%

+00
464.98

0.50%
2' FB SURF DT RT

6.42%

+00
463.98

+50
460.77

NOTE: RIGHT DITCH PLOTTED 10' BELOW DATUM

| | | |

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BEGIN CONSTRUCTION
STA. 53+73.56

CONSTRUCT 30 LF OF EDGE KEY STA. 53+73.56

LT. STA. 58+50.00 SYCAMORE ST.
CONSTRUCT 16' ENTRANCE WITH
8.16 TONS OF ASPH. PAVEMENT,
13.05 TONS OF ASPH. BASE,
27.29 TONS OF CRUSHED STONE BASE AND
35' OF 15" ENTRANCE PIPE.

RT. STA. 121+00.00 CONSTRUCT 16' ENTRANCE
WITH 8.44 TONS OF ASPH. PAVEMENT, 13.50 TONS OF
ASPH. BASE AND 28.23 TONS OF CRUSHED STONE BASE.

LT. STA. 121+62.99 TO STA. 124+36.80
CONSTRUCT 200 LF OF GUARDRAIL-
STEEL W BEAM-SINGLE FACE AND
2 - TYPE 4A END TREATMENTS

RT. STA. 58+50.00 SYCAMORE ST.
CONSTRUCT 16' ENTRANCE WITH
7.95 TONS OF ASPH. PAVEMENT, 12.71 TONS
OF ASPH. BASE, 26.58 TONS OF CRUSHED
STONE BASE AND 35' OF 15" ENTRANCE PIPE.

RT. STA. 112+52.80 CONSTRUCT 16' ENTRANCE
WITH 10.22 TONS OF ASPH. PAVEMENT, 16.35 TONS OF
ASPH. BASE AND 34.18 TONS OF CRUSHED STONE BASE.

RT. STA. 232+63.68 TO STA. 124+25.39
CONSTRUCT 187.5 LF OF GUARDRAIL-
STEEL W BEAM-SINGLE FACE AND
2 - TYPE 4A END TREATMENTS

SOUTHERN STATES CO-OP (27)
I-Sty. Metal Business
CALLOWAY CO. (26)
KWT RAILWAY (25)
SOUTHERN STATES CO-OP RAILROAD SPUR
DEWEY FREDERICK PARKS AND CAROLYN HARGROVE (24)
FITTS BLOCK & READY MIX, INC. (28)
CITY OF MURRAY (29)
STA. 60+00.00 SYCAMORE
STA. 112+52.80 MAINLINE
MATCHLINE STA. 110+00
MATCHLINE STA. 125+00
1810+00
1815+00
115+00
120+00
55+00
60+00
PC 1814+64.69
PI 1815+13.90
PT 1815+63.01
PC 1816+05.31
PT 1816+82.72
PI 118+40.80
PC 115+09.90
PT 113+87.01
PC 123+64.86
PT 121+71.15
R 6645.00 L 209.6357 N4°15'34"E LC 209.63
R 6770.00 L 362.6065 N3°08'45"E LC 362.56
R 6770.00 L 304.5560 N5°58'08"E LC 304.53
R 6645.00 L 367.6727 S3°11'48"W LC 367.63
R 6645.00 L 287.1714 S6°01'11"W LC 287.15
R 6775.00 L420.3205 S3°23'20"W LC 420.25
N3°15'54"E
N7°15'28"E
N7°36'41"E
S7°36'41"W
N82°32'55"W 1000'
PERM. EASEMENT
TEMP. ESMT.
PERM. DRAINAGE ESMT.
PROP. R/W
SILT DITCH
2' F.B. SURF DT.
18" PIPE
15" PIPE
24" PIPE
42" PIPE
I.E. 463.25
O.E. 463.00
I.E. 464.30
I.E. 464.00
I.E. 463.71
O.E. 463.50
O.E. 463.85
O.E. 462.96
OUTLET 463.80
OUTLET 463.17
DBL. 12' x 5' BOX
POND
TREES
GRASS
CULTIVATED FIELD
POWER LINE
MURRAY-MURRAY DISTRICT TAP TO DENTON SUB 69 KV

SEE SHEET 15 FOR SYCAMORE INDUSTRIAL ROAD PROFILE

BEFORE YOU DIG

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

SCALE 1" = 50'

PROJECT NO. : 05093
DRAWING BY :
REVISION DATES :
REVISION NOTES :
DATE :

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
BFW
1151 DAUGHERTY DRIVE, SUITE 200, LOUISVILLE, KENTUCKY 40223 • PHONE: (502) 425-3999 • FAX: (502) 425-3999
300 SOUTH 17th STREET, LOUISVILLE, KENTUCKY 40203 • PHONE: (502) 587-3100
400 NORTH COURT STREET, BOWLING GREEN, KENTUCKY 42101 • PHONE: (270) 843-3100
WWW.BFWENGINEERS.COM

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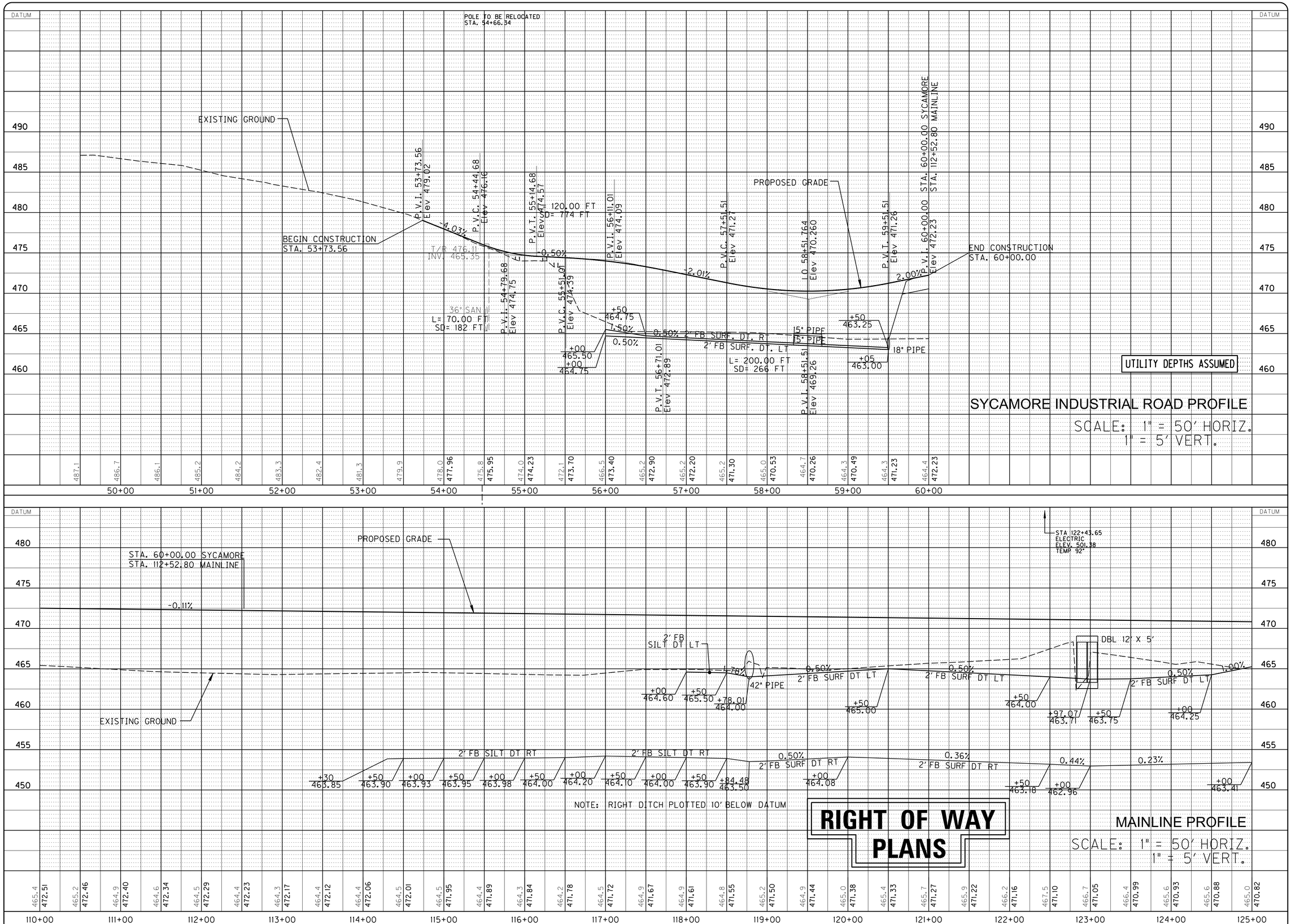
PLAN - STA. 110+00 TO STA. 125+00

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

RIGHT OF WAY PLANS

SHEET
14



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PROJECT NO.: DATE:
DRAWING BY:
REVISION DATES:
REVISION NOTES:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DAUGHTON DRIVE
MURRAY, KENTUCKY 42071
PHONE: 270.753.7307
500 SOUTH 17th STREET
PADUCAH, KENTUCKY 42003
PHONE: 270.443.1995
403 NORTH COURT STREET
MARION, ILLINOIS 62959
PHONE: 618.997.9190
WWW.BFWENGINEERS.COM

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PROFILE - MAINLINE & SYCAMORE IND. RD.

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
15

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RT. STA. 58+00.00 OLD CONCORD RD.
CONSTRUCT 14' ENTRANCE WITH
3.3 TONS OF ASPH. PAVEMENT
5.3 TONS OF ASPH. BASE AND
11.1 TONS OF CRUSHED STONE BASE
36' OF 24" EQUIV. ENTRANCE PIPE.

LT. STA. 57+90.00 OLD CONCORD RD.
CONSTRUCT 14' ENTRANCE WITH
3.3 TONS OF ASPH. PAVEMENT
5.3 TONS OF ASPH. BASE AND
11.1 TONS OF CRUSHED STONE BASE
24' OF 24" EQUIV. ENTRANCE PIPE.

CONSTRUCT 17.2 LF OF EDGE KEY STA. 56+50.90 OLD CONCORD RD.

KWT RAILWAY (25)

PC 54+65.46

BEGIN CONSTRUCTION
STA. 56+50.90
PT 55+71.45

PI 55+18.65

P.I. 55+18.65
X = 892866.7860
Y = 1749995.9505
D = 12°08'41.81"
C = 11°27'32.96"
T = 53.19'
L = 105.98'
R = 500.00'
Es = 2.82'
Se = N.C.

MATCHLINE STA. 125+00

MATCHLINE STA. 140+00

125+00 | 130+00 | 135+00 | 140+00 | 55+00 | 60+00 | 65+00

FITTS BLOCK & READY MIX, INC. (28)

CITY OF MURRAY (29) (30)

SUBURBAN PROPANE LP

KEITH AND HAZEL BRANDON FAMILY LIMITED PARTNERSHIP

SHOEMAKER ENTERPRISES, INC.

DEWEY FREDERICK PARKS AND CAROLYN HARGROVE (32)

I-STY. MTL. BLDG.

I-STY. BLK. BLDG.

I-Sty. Metal Business

I-Sty. Conc. Blk. Business

SILO

SILOS

POND

BARN

GRASS

CULTIVATED FIELD

R 6650.00
L 550.1793 N4°53'15"E
LC 550.02

R 6775.00
L 540.3273 S4°58'23"W
LC 540.18

R 6775.00
L 40.3875 N4°15'03"E
LC 40.3874

R 6650.00
L 554.9925 N1°02'36"W
LC 554.83

R 6770.00
L 1065.5442 S3°11'13"E
LC 1064.44

N2°43'43"E 280.03'

N3°30'55"E 190'

N46°03'37"E 47.00'

N7°15'28"E

N9°03'22"W

N85°13'32"E

S85°56'22"E

STA. 58+98.42 OLD CONCORD =
STA. 129+88.29 MAINLINE

PI 133+26.64

P.I. 133+26.64
X = 893317.1959
Y = 1750360.4697
D = 16°18'50.49"
C = 0°51'13.99"
T = 961.79'
L = 1910.56'
R = 6710.00'
Es = 68.58'
Se = 0.00%

PC 62+27.27

R 4975.00 LC 173.2233
L 173.2145 N84°13'42"E

PI 63+14.32

P.I. 63+14.32
X = 893660.0927
Y = 1750062.2082
D = 1°59'41.88"
C = 1°08'45.30"
T = 87.06'
L = 174.09'
R = 5000.00'
Es = 0.76'
Se = N.C.

PC 65+04.55

PT 64+01.36

END CONSTRUCTION
STA. 63+93.20

RT. STA. 63+25.00 OLD CONCORD RD.
CONSTRUCT 16' ENTRANCE WITH
4.1 TONS OF ASPH. PAVEMENT
6.6 TONS OF ASPH. BASE AND
13.8 TONS OF CRUSHED STONE BASE
2 - 12" ENTRANCE PIPES 33' EACH.

LT. STA. 63+25.00 OLD CONCORD RD.
CONSTRUCT 16' ENTRANCE WITH
4.6 TONS OF ASPH. PAVEMENT
7.4 TONS OF ASPH. BASE AND
15.4 TONS OF CRUSHED STONE BASE
2- 12" ENTRACE PIPES 32' EACH.

CONSTRUCT 17.6 LF OF EDGE KEY STA. 63+93.20 OLD CONCORD RD.

SEE SHEET 17 FOR OLD CONCORD ROAD PROFILE

BEFORE YOU DIG

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SCALE 1" = 50'

RIGHT OF WAY PLANS

PLAN - STA. 125+00 TO STA. 140+00

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET 16

PROJECT NO. :
DRAWING BY :
REVISION DATES :
REVISION NOTES :
DATE :

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ENGINEERING & TESTING, INC.
BFW
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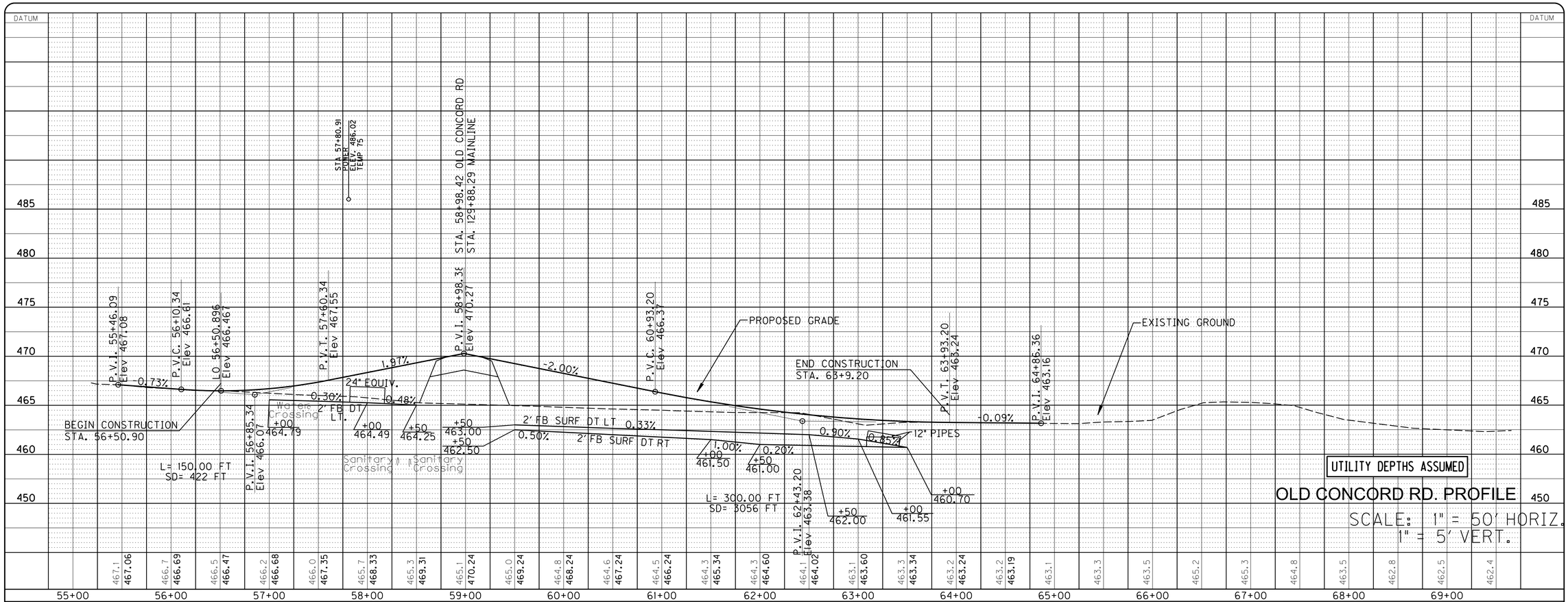

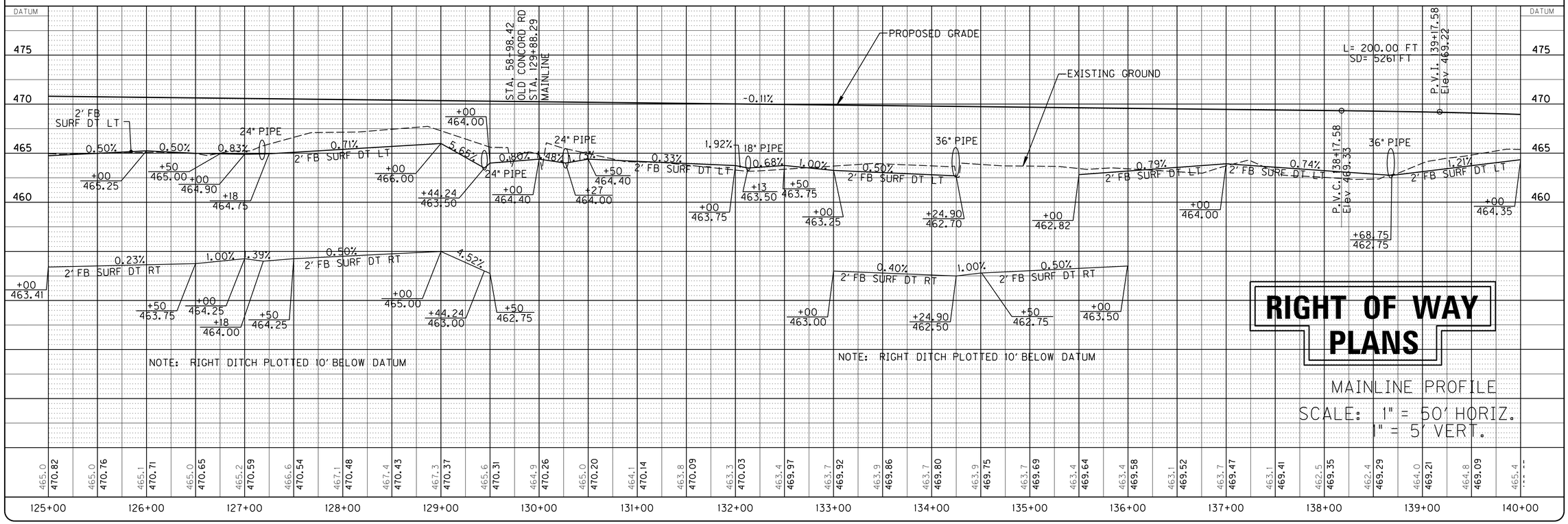

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
100 MAGNA DRIVE • 800 SOUTH 7TH STREET • 810 SOUTH COURT STREET
BARDSTOWN, KENTUCKY 40004 • PADUCAH, KENTUCKY 42003 • MARION, ILLINOIS 62959
PHONE: (270) 350-0397 • PHONE: (270) 575-9000 • PHONE: (618) 997-1344
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PROJECT NO. :
DATE:
DRAWING BY :
REVISION DATES :
REVISION NOTES :

PROFILE - MAINLINE & OLD CONCORD ROAD

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
17

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LT. STA. 141+10.62 MAINLINE
CONSTRUCT 25' ENTRANCE
WITH 13.31 TONS OF ASPH. PAVEMENT
21.6 TONS OF ASPH. BASE AND
46.2 TONS OF CRUSHED STONE BASE
AND 49 LF OF 24" ENTRANCE PIPE

KY 94
P.I. 14+85.52
X = 893058.4367
Y = 1751440.3231
D = 10°02'40.13"
C = 3°22'13.22"
T = 149.40'
L = 298.03'
R = 1700.00'
Es = 6.55'
Se = SEE XSECTS

PI 14+85.52

LT. STA. 14+25.00 KY. 94
CONSTRUCT 30' ENTRANCE
WITH 10.2 CY OF CONCRETE AND
10.5 TONS OF CRUSHED STONE BASE.

MATCHLINE STA. 14+00

MATCHLINE STA. 140+00

MATCHLINE STA. 143+50

MATCHLINE STA. 16+50

ROBERT SWIFT (33)

GROWERS LOOSE LEAF (31)

ROBERT SWIFT (34)

INDUSTRIAL RD.

SCARIFY AND SEED

PT 142+75.42

TEMP. ESMT.

PROP. R/W

18" PIPE

2' F.B. SILT DT.

100' TAPER

150' STORAGE

N9°03'22"W

35:1 TAPER

NORMAL DT.

T/R 468.69
INV. 460.04

T/R 467.03
INV. 459.94

T/R 465.29
INV. 467.85

T/R 467.85
INV. 465.69

T/R 467.21
INV. 460.24

T/R 467.92
INV. 460.36

INV. 465.96

INV. 466

SEE SHEET 20 FOR MAINLINE PROFILE

RT. STA. 141+10.62 MAINLINE
CONSTRUCT 25' ENTRANCE
WITH 16.1 TONS OF ASPH. PAVEMENT
25.7 TONS OF ASPH. BASE AND
51.22 TONS OF CRUSHED STONE BASE

RIGHT OF WAY PLANS

BEFORE YOU DIG

CALL 1-800-752-6007 TOLL FREE A MINIMUM OF TWO AND NO MORE THAN TEN BUSINESS DAYS PRIOR TO EXCAVATION FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTILITIES WHICH SUBCRIBE TO THE BEFORE-U-DIG (BUD) SERVICE. COORDINATE EXCAVATION WITH ALL UTILITY OWNERS, INCLUDING THOSE WHO DO NOT SUBSCRIBE TO BUD. SHOW ALL UTILITIES AND A CONTACT PERSON FOR EACH COMPANY ON SHEET NO. 3 OF THE PLANS.

SCALE 1" = 20'

PROJECT NO. :
DRAWING BY :
REVISION DATES :
REVISION NOTES :
DATE :

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
100 SOUTH 17th STREET
SUITE 1000 • LOUISVILLE, KY 40203
PHONE: 270.443.1395
400 NORTH COURT STREET
SUITE 100 • PADUCAH, KY 42001
PHONE: 1.800.837.9390
WWW.BFWENGINEERS.COM

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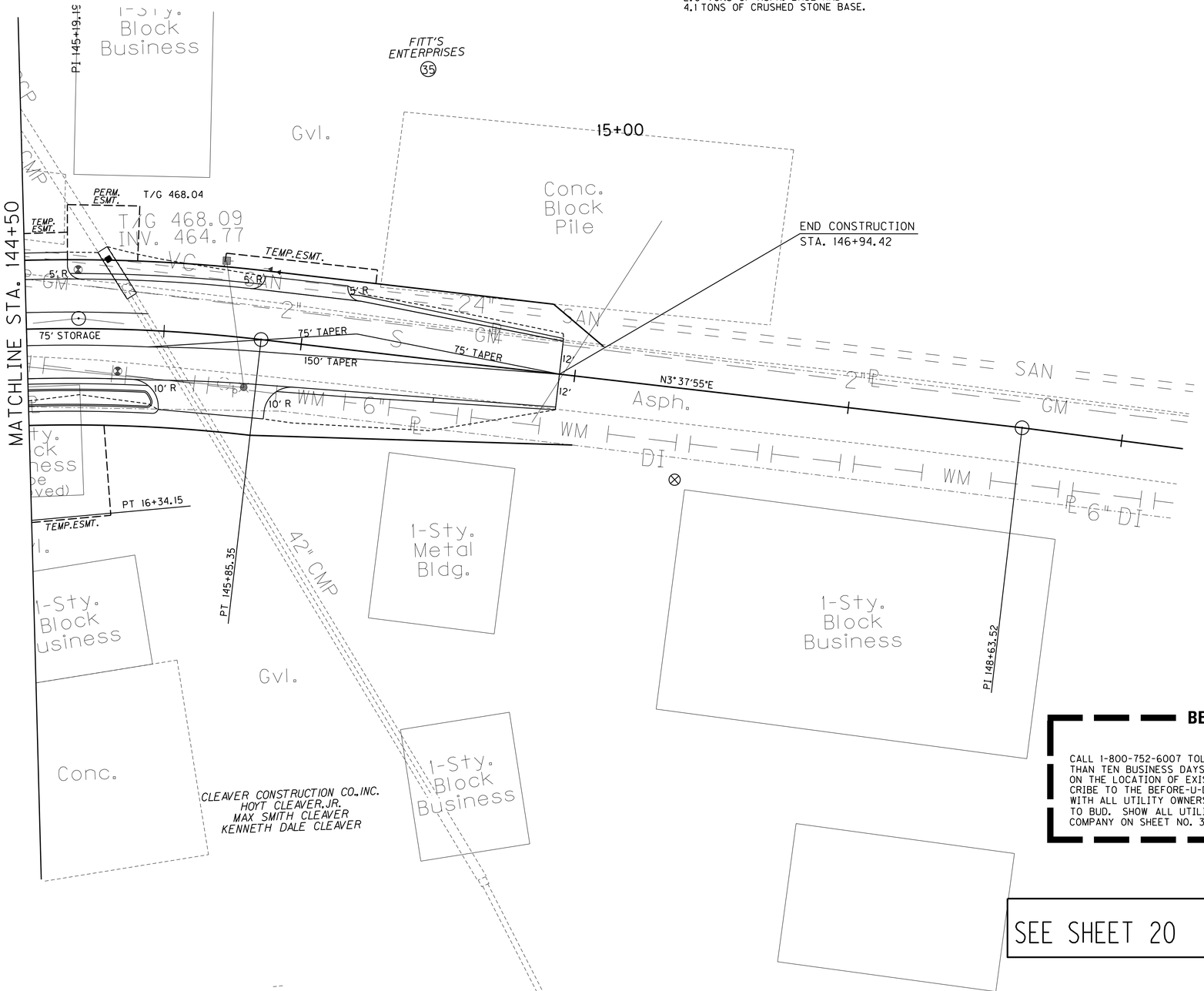
PLAN - STA. 140+00 - 144+00

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
18

LT. STA. 145+33.00 MAINLINE
CONSTRUCT 26' ENTRANCE
WITH 5.4 CY OF CONCRETE AND
5.5 TONS OF CRUSHED STONE BASE

LT. STA. 146+30.00 MAINLINE
CONSTRUCT 30' ENTRANCE
WITH 1.2 TONS OF ASPH. PAVEMENT
2.0 TONS OF ASPH. BASE AND
4.1 TONS OF CRUSHED STONE BASE.



BEFORE YOU DIG

CALL 1-800-752-6007 TOLL FREE A MINIMUM OF TWO AND NO MORE THAN TEN BUSINESS DAYS PRIOR TO EXCAVATION FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTILITIES WHICH SUBCRIBE TO THE BEFORE-U-DIG (BUD) SERVICE. COORDINATE EXCAVATION WITH ALL UTILITY OWNERS, INCLUDING THOSE WHO DO NOT SUBSCRIBE TO BUD. SHOW ALL UTILITIES AND A CONTACT PERSON FOR EACH COMPANY ON SHEET NO. 3 OF THE PLANS.

SEE SHEET 20 FOR MAINLINE PROFILE

RT. STA. 146+00.00 MAINLINE
CONSTRUCT 38' ENTRANCE
WITH 3.3 TONS OF ASPH. PAVEMENT
5.3 TONS OF ASPH. BASE AND
11.1 TONS OF CRUSHED STONE BASE

RIGHT OF WAY PLANS

SCALE 1" = 20'

PROJECT NO.:
DRAWING BY:
REVISION DATES:
REVISION NOTES:
DATE:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
BFW
1215 DUGUID DRIVE
MURRAY, KENTUCKY 42071
PHONE: 270.753.7507
900 SOUTH 17th STREET
PADUCAH, KENTUCKY 42003
PHONE: 270.443.1995
403 NORTH COURT STREET
MARION, ILLINOIS 62959
PHONE: 618.997.5190
WWW.BFWENGINEERS.COM

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PLAN - STA. 144+50 - E.O.P.

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
19

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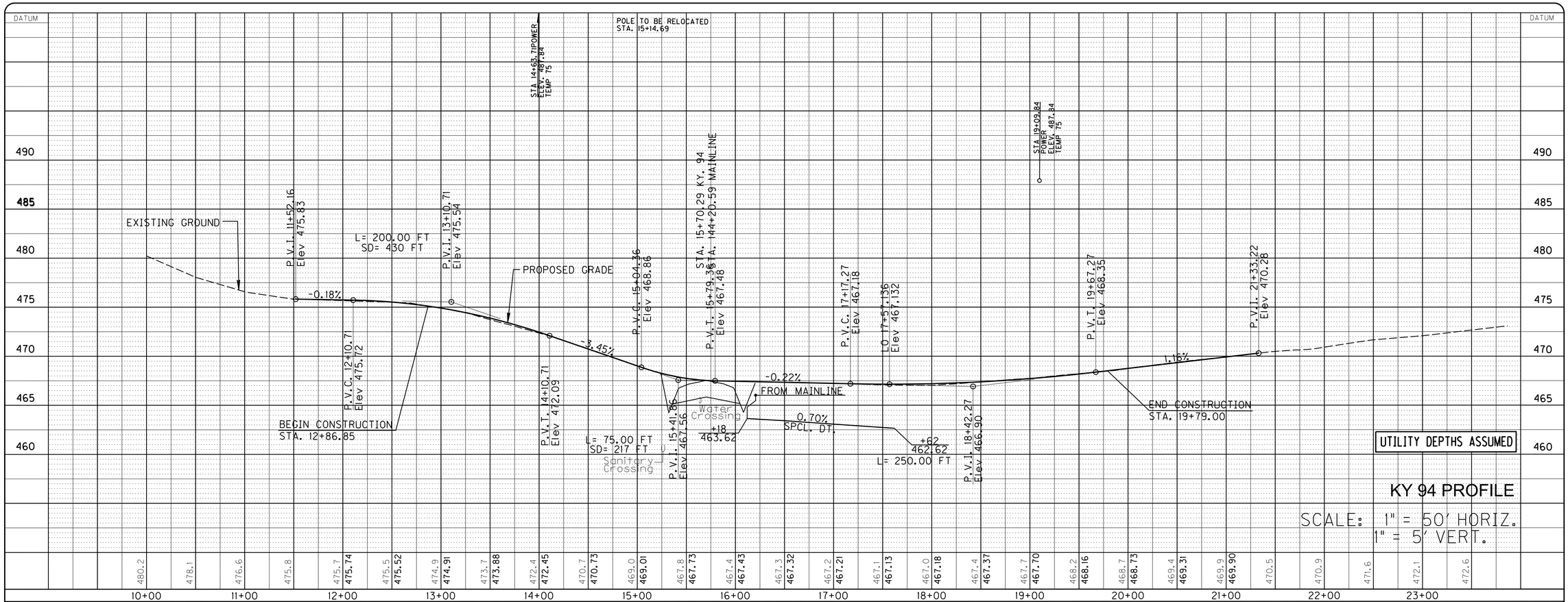

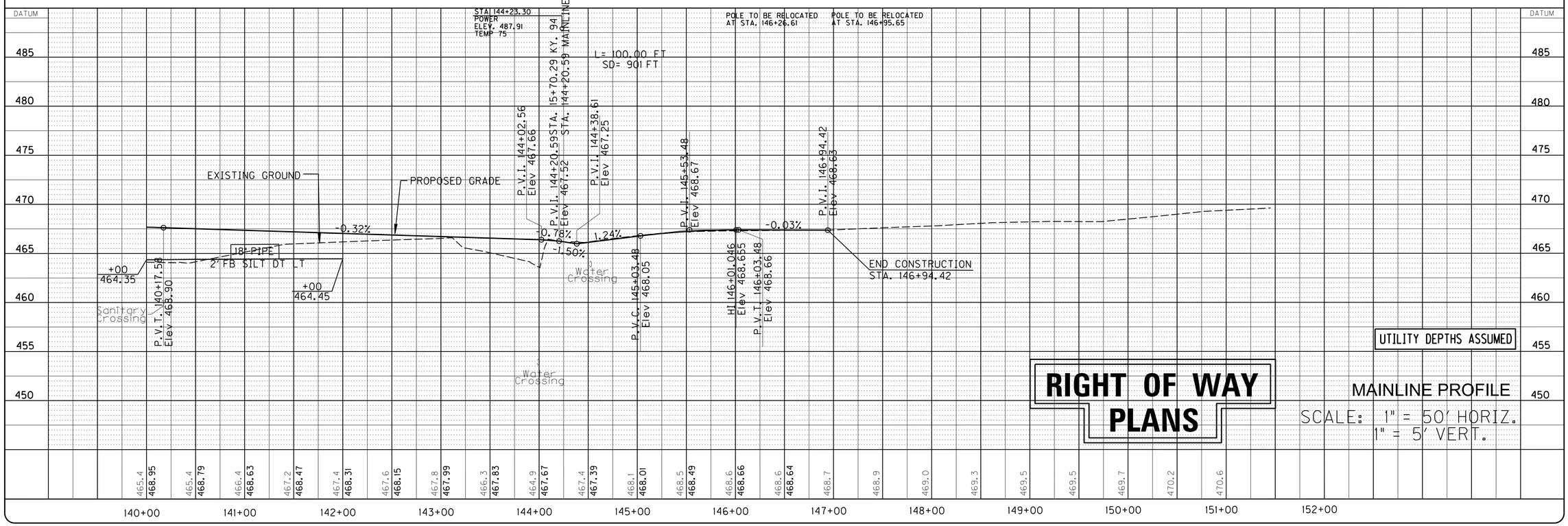

GEOTECH
ENGINEERING & TESTING, INC.
601 NORTH 4th STREET
MURRAY, KENTUCKY 42071
PHONE - 270.753.7307
500 SOUTH 17th STREET
PADUCAH, KENTUCKY 42003
403 NORTH COURT STREET
MARION, ILLINOIS 62959
PHONE - 618.997.9190
WWW.GEOTECHENGINEER.NET
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PROJECT NO. : 05093 DATE :
DRAWING BY :
REVISION DATES :
REVISION NOTES :

PROFILE - MAINLINE & KY. 94

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
20

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LT. STA. 52+70.09 US 641x / KY 121
CONSTRUCT 32' ENTRANCE
WITH 13.3 CY OF CONCRETE AND
13.8 TONS OF CRUSHED STONE BASE.

LT. STA. 53+30.49 US 641x / KY 121
CONSTRUCT 32' ENTRANCE
WITH 11.6 CY OF CONCRETE AND
12.0 TONS OF CRUSHED STONE BASE.

LT. STA. 54+50.00 US 641x / KY 121
CONSTRUCT 16' ENTRANCE
WITH 4.2 TONS OF ASPH. PAVEMENT
6.8 TONS OF ASPH. BASE AND
14.2 TONS OF CRUSHED STONE BASE.

50+00

KENNETH BOGARD
⑥

1-Sty. Block Garage

1-Sty. Metal Business

Gvl.

TEMP. ESMT.

TO BE

PERM. DRAINAGE ESMT.

POB 50+00.07

MARTY FUTRELL
Gvl.

P.V.C.

C.M.

O.E. 503.18

O.E. 489.66

Grass

Grass

STA. 52+72

10' R

15" S.S.

T/G 507.00
INV. 504.25

EX. O.E. 489.90

T/R 511.55
INV. 498.01

S

S

M.H.

Conc.

S

Conc.

10' R

10' R

10' R

AC

S

10.3'

12'

12'

12'

12'

12'

9'

10.3'

15:1 TAPER

100' TAPER

S9°20'14"W

150' STORAGE

STA. 53+72

EXIST. ROAD 4"±

10' R

10' R

10' R

10' R

10' R

Conc.

10' R

T/G 505.45
18" INV. 496.00

10' R

GVL.

10' R

P.P.

F.H.

T/G 508.21
INV. 505.71

15" S.S.

18" S.S.

P.P.

24" CMP
INV. 496.40

T/G 504.89
INV. ~~499.60~~

T/G 506.21
INV. 503.83

48" CMP

48" CMP
INV. 498.69

EX. INLET
T/G 506.50
INV. 492.30

MATCHLINE STA. 55+00

BEGIN CONSTRUCTION
STA. 50+91.87

Asph.

Conc. Ret. Wall

CONC. HDWL. W/ 48" CMP
INV. 501.33

MARY ENIX

1-Sty. Conc. Block Business

Gvl.

Gvl.

Gvl.

Gvl.

HOWARD BRANDON AND WIFE RUTH
③

CHRYSTA SHAWN ENIX
①

LOUIE WILLIAMS AND WIFE JUDY
②

SEE SHEET 8 FOR KY 121/ US641X PROFILE

BEFORE YOU DIG

CALL 1-800-752-6007 TOLL FREE A MINIMUM OF TWO AND NO MORE THAN TEN BUSINESS DAYS PRIOR TO EXCAVATION FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTILITIES WHICH SUBSCRIBE TO THE BEFORE-U-DIG (BUD) SERVICE. COORDINATE EXCAVATION WITH ALL UTILITY OWNERS, INCLUDING THOSE WHO DO NOT SUBSCRIBE TO BUD. SHOW ALL UTILITIES AND A CONTACT PERSON FOR EACH COMPANY ON SHEET NO. 3 OF THE PLANS.

RIGHT OF WAY PLANS

CONSTRUCT 20.6 LF OF EDGE KEY KY 121

RT. STA. 51+27.31 US 641x / KY 121
CONSTRUCT 24' ENTRANCE
WITH 2.8 TONS OF ASPH PAVEMENT
4.5 TONS OF ASPH. BASE AND
9.4 TONS OF CRUSHED STONE BASE.

RT. STA. 51+80.31 US 641x / KY 121
CONSTRUCT 24' ENTRANCE
WITH 2.8 TONS OF ASPH PAVEMENT
4.5 TONS OF ASPH. BASE AND
9.4 TONS OF CRUSHED STONE BASE.

RT. STA. 52+58.47 US 641x / KY 121
CONSTRUCT 24' ENTRANCE
WITH 11.7 CY OF CONCRETE AND
12.1 TONS OF CRUSHED STONE BASE.

RT. STA. 54+29.92 US 641x / KY 121
CONSTRUCT 40' ENTRANCE
WITH 4.0 TONS OF ASPH. PAVEMENT
6.4 TONS OF ASPH. BASE AND
13.4 TONS OF CRUSHED STONE BASE.

SCALE 1" = 20'

PROJECT NO. :
DRAWING BY :
REVISION DATES :
REVISION NOTES :
DATE:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DUGUID DRIVE
MURRAY, KENTUCKY 42071
PHONE: (270) 753-2277
300 SOUTH 7TH STREET
PADUCAH, KENTUCKY 42003
PHONE: (270) 443-8326
400 NORTH COURT STREET
MADISONVILLE, KENTUCKY 42431
PHONE: (270) 821-8990
WWW.BFWENGINEERS.COM

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KY 121/ US641X STA. 50+91.87 - STA. 55+00

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
21

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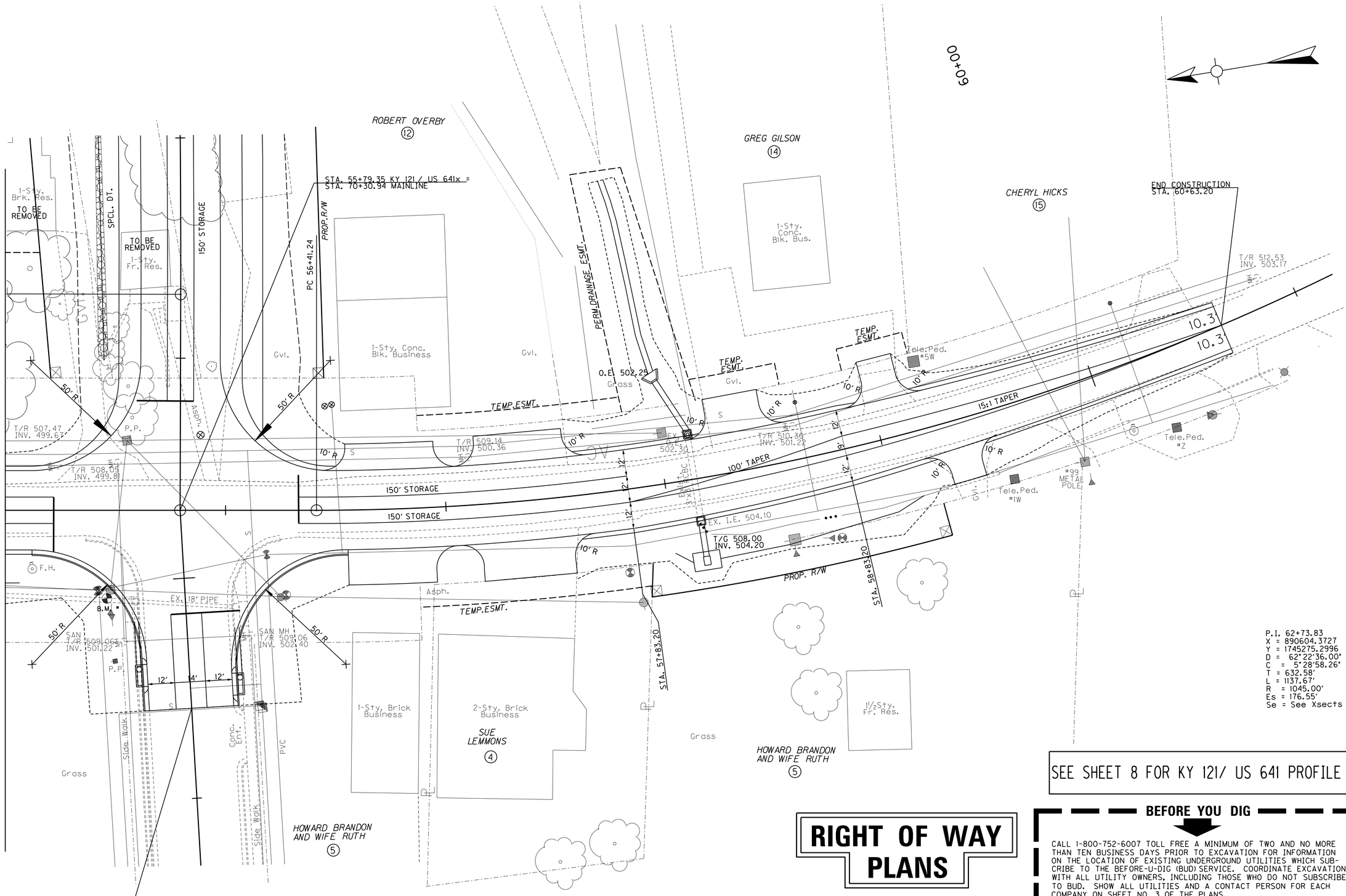
LT. STA. 56+75.00 - KY. 121
CONSTRUCT 40' ENTRANCE
WITH 4.0 TONS OF ASPH. PAVEMENT
6.4 TONS OF ASPH. BASE AND
13.4 TONS OF CRUSHED STONE BASE

LT. STA. 57+35.00 - KY. 121
CONSTRUCT 40' ENTRANCE
WITH 4.5 TONS OF ASPH. PAVEMENT
7.3 TONS OF ASPH. BASE AND
15.2 TONS OF CRUSHED STONE BASE

LT. STA. 58+36.00 - KY. 121
CONSTRUCT 25' ENTRANCE
WITH 3.6 TONS OF ASPH. PAVEMENT
5.6 TONS OF ASPH. BASE AND
12.0 TONS OF CRUSHED STONE BASE

LT. STA. 59+05.90 - KY. 121
CONSTRUCT 16' ENTRANCE
WITH 2.9 TONS OF ASPH. PAVEMENT
4.6 TONS OF ASPH. BASE AND
9.6 TONS OF CRUSHED STONE BASE



P.I. 62+73.83
X = 890604.3727
Y = 1745275.2996
D = 62°22'36.00"
C = 5°28'58.26"
T = 632.58'
L = 1137.67'
R = 1045.00'
Es = 176.55'
Se = See Xsects

SEE SHEET 8 FOR KY 121/ US 641 PROFILE

RIGHT OF WAY PLANS

BEFORE YOU DIG

CALL 1-800-752-6007 TOLL FREE A MINIMUM OF TWO AND NO MORE THAN TEN BUSINESS DAYS PRIOR TO EXCAVATION FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTILITIES WHICH SUBCRIBE TO THE BEFORE-U-DIG (BUD) SERVICE. COORDINATE EXCAVATION WITH ALL UTILITY OWNERS, INCLUDING THOSE WHO DO NOT SUBSCRIBE TO BUD. SHOW ALL UTILITIES AND A CONTACT PERSON FOR EACH COMPANY ON SHEET NO. 3 OF THE PLANS.

RT. STA. 56+75.00 - KY. 121
CONSTRUCT 40' ENTRANCE
WITH 5.1 TONS OF ASPH. PAVEMENT
8.1 TONS OF ASPH. BASE AND
16.9 TONS OF CRUSHED STONE BASE

RT. STA. 57+35.00 - KY. 121
CONSTRUCT 42' ENTRANCE
WITH 5.7 TONS OF ASPH. PAVEMENT
9.1 TONS OF ASPH. BASE AND
19.0 TONS OF CRUSHED STONE BASE

RT. STA. 59+34.27 - KY. 121
CONSTRUCT 15' ENTRANCE
WITH 2.1 TONS OF ASPH. PAVEMENT
3.3 TONS OF ASPH. BASE AND
7.0 TONS OF CRUSHED STONE BASE

CONSTRUCT 20.6 LF OF EDGE KEY KY 121

SCALE 1" = 20'

PROJECT NO. :
DRAWING BY :
REVISION DATES :
REVISION NOTES :
DATE:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
235 DIVISION DRIVE
MORGANTOWN, WEST VIRGINIA 26503 • PHONE: (304) 599-0771
430 NORTH COURT STREET
MADISON, ILLINOIS 62060 • PHONE: (618) 931-1600
WWW.BFWENGINEERS.COM

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KY 121/ US641X STA. 55+00 - STA. 60+63.20

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
22

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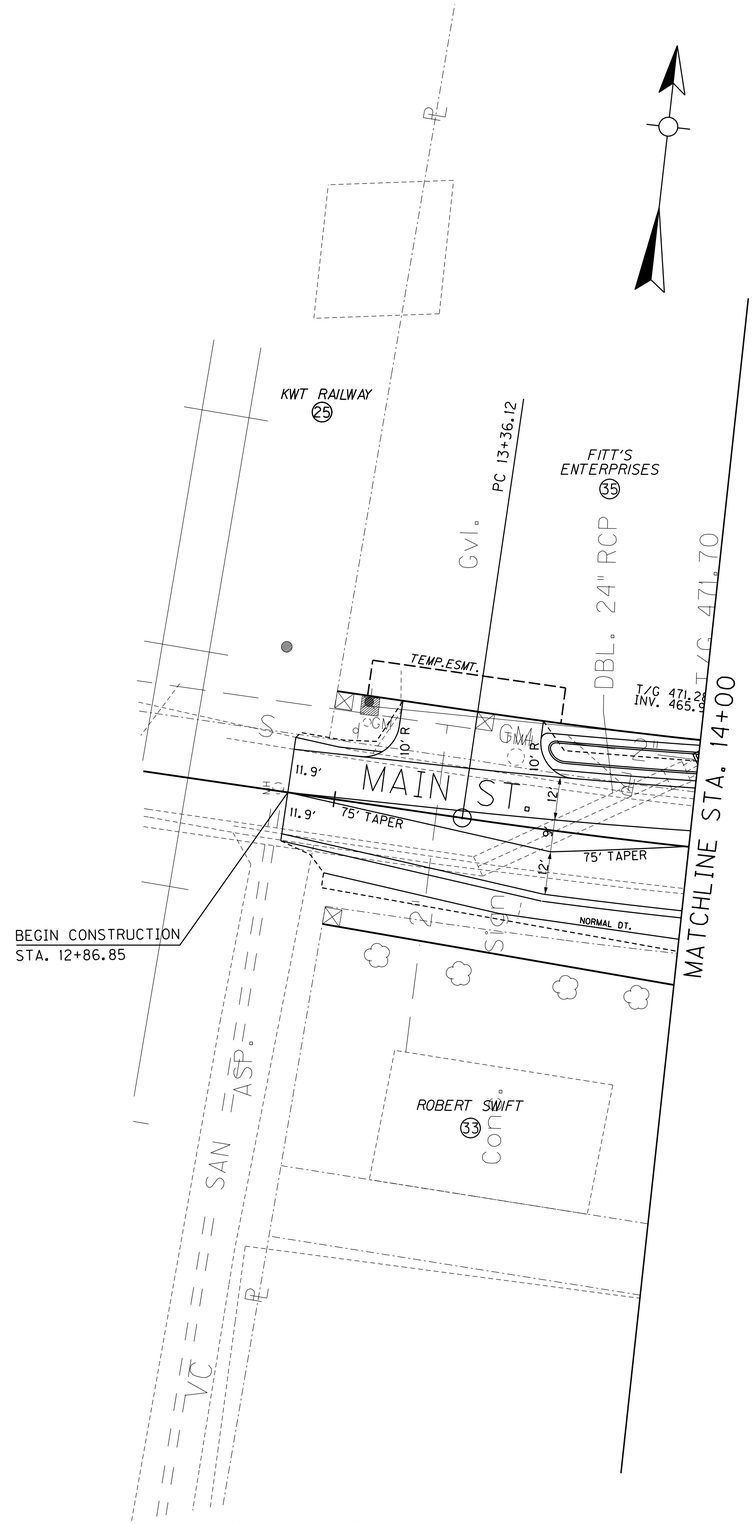
LT. STA. 13+35 KY. 94
CONSTRUCT 40' ENTRANCE
WITH 16.9 CY OF CONCRETE AND
17.5 TONS OF CRUSHED STONE BASE.



CONSTRUCT 23.8 LF OF EDGE KEY STA. 12+86.85 KY 94

SEE SHEET 20 FOR KY 94 PROIFLE

BEFORE YOU DIG

CALL 1-800-752-6007 TOLL FREE A MINIMUM OF TWO AND NO MORE THAN TEN BUSINESS DAYS PRIOR TO EXCAVATION FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTILITIES WHICH SUBCRIBE TO THE BEFORE-U-DIG (BUD) SERVICE. COORDINATE EXCAVATION WITH ALL UTILITY OWNERS, INCLUDING THOSE WHO DO NOT SUBSCRIBE TO BUD. SHOW ALL UTILITIES AND A CONTACT PERSON FOR EACH COMPANY ON SHEET NO. 3 OF THE PLANS.

RIGHT OF WAY PLANS

SCALE 1" = 20'

PROJECT NO. :
DRAWING BY :
REVISION DATES :
REVISION NOTES :
DATE:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
125 DUGUID DRIVE
MURRAY, KENTUCKY 42071
PHONE: 270.753.2727
300 SOUTH 11th STREET
PADUCAH, KENTUCKY 42003
PHONE: 270.575.9000
400 NORTH COURT STREET
MARION, ILLINOIS 62959
PHONE: 618.997.9000
WWW.BFWENGINEERS.COM

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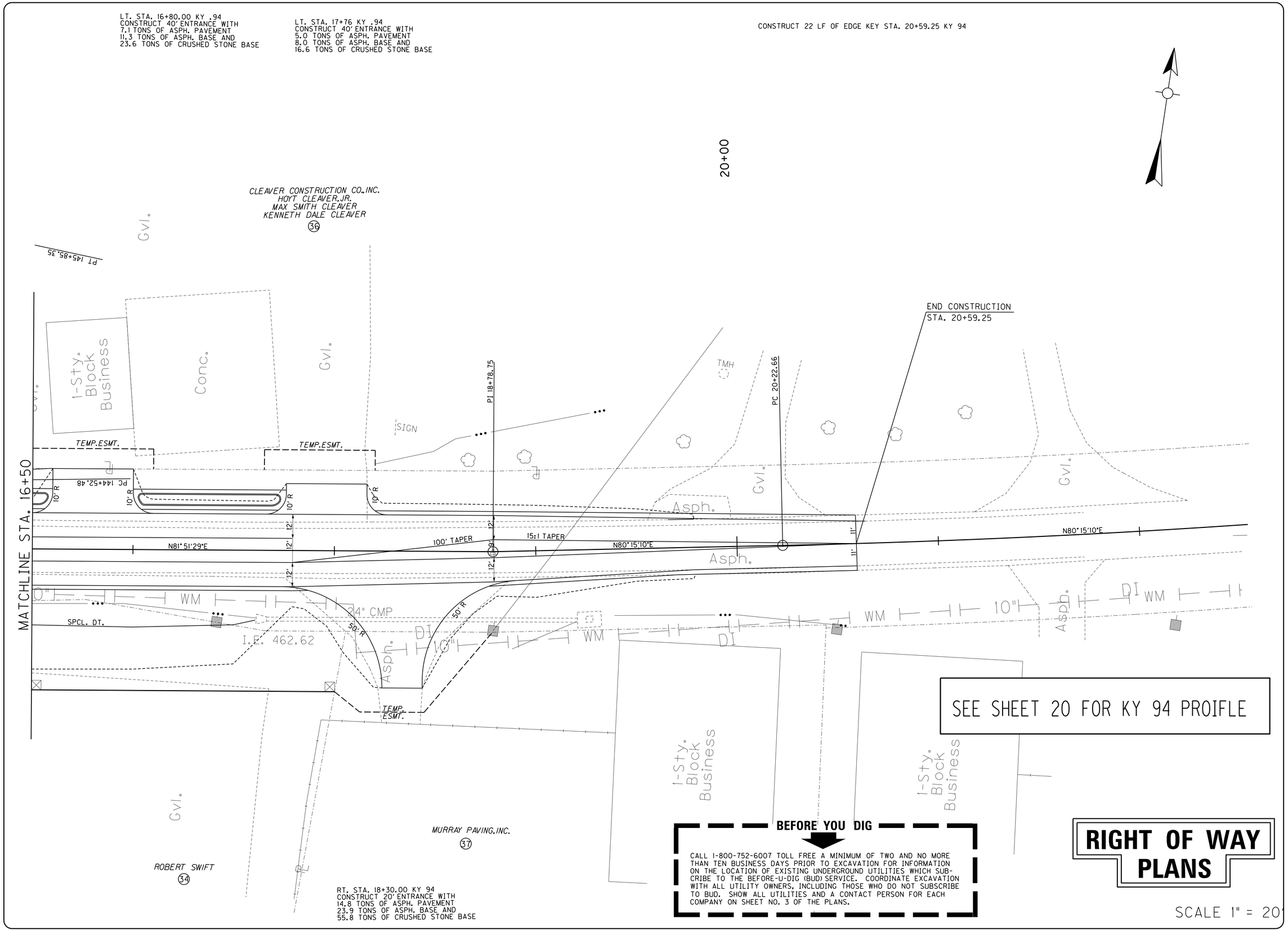
PLAN - KY 94 STA. 12+86.85 - STA. 14+00

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
23



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PROJECT NO.:
DRAWING BY:
REVISION DATES:
REVISION NOTES:
DATE:

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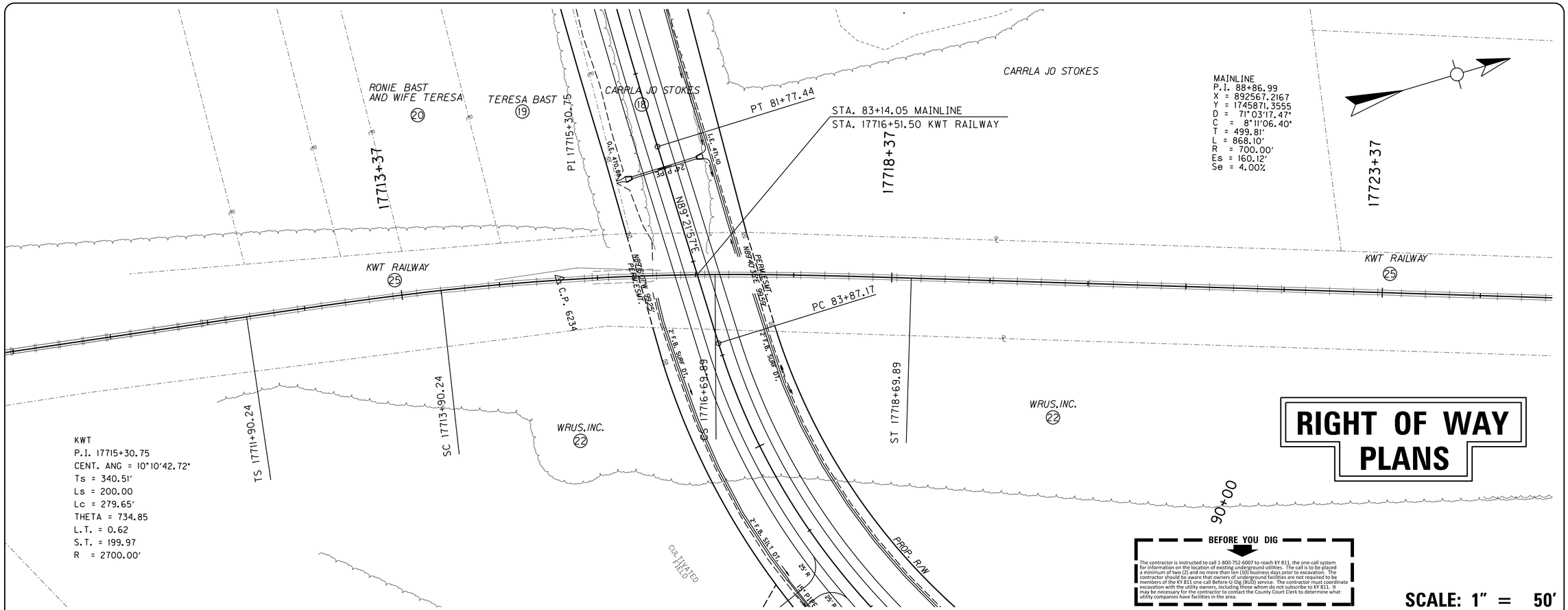
PLAN - KY 94 STA.16+50 TO 20+59.25

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
24

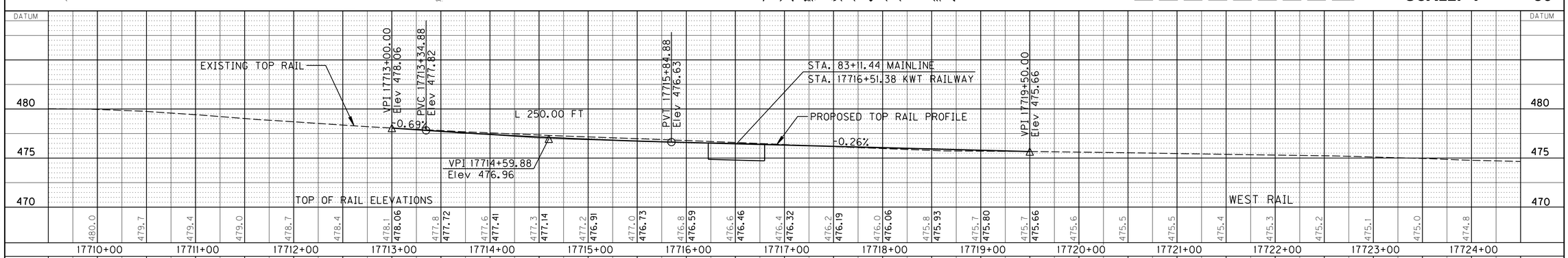


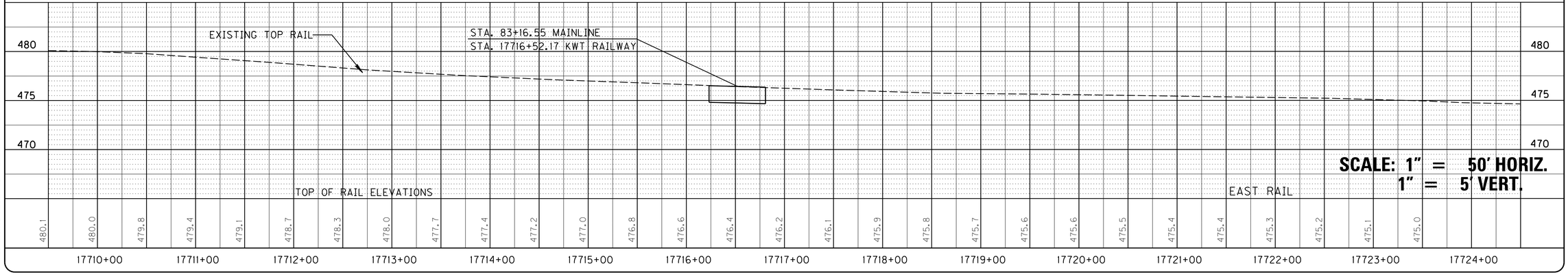
RIGHT OF WAY PLANS

BEFORE YOU DIG

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

SCALE: 1" = 50'





SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

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PROJECT NO.: 05093
DATE: DECEMBER 7, 2012
DRAWING BY:
REVISION DATES:
REVISION NOTES:

BFW
500 SOUTH 17th STREET
PADUCAH, KENTUCKY 42003
PHONE - 270.443.1995
403 NORTH COURT STREET
MARION, ILLINOIS 62959
PHONE - 618.997.9190
1215 DILIGUID DRIVE
MURRAY, KENTUCKY 42071
PHONE - 270.753.7307
WWW.BFWENGINEERS.COM

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RAIL CROSSING – MURRAY BUS. LOOP

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 4TH STREET
MURRAY, KY 42071

SHEET
25

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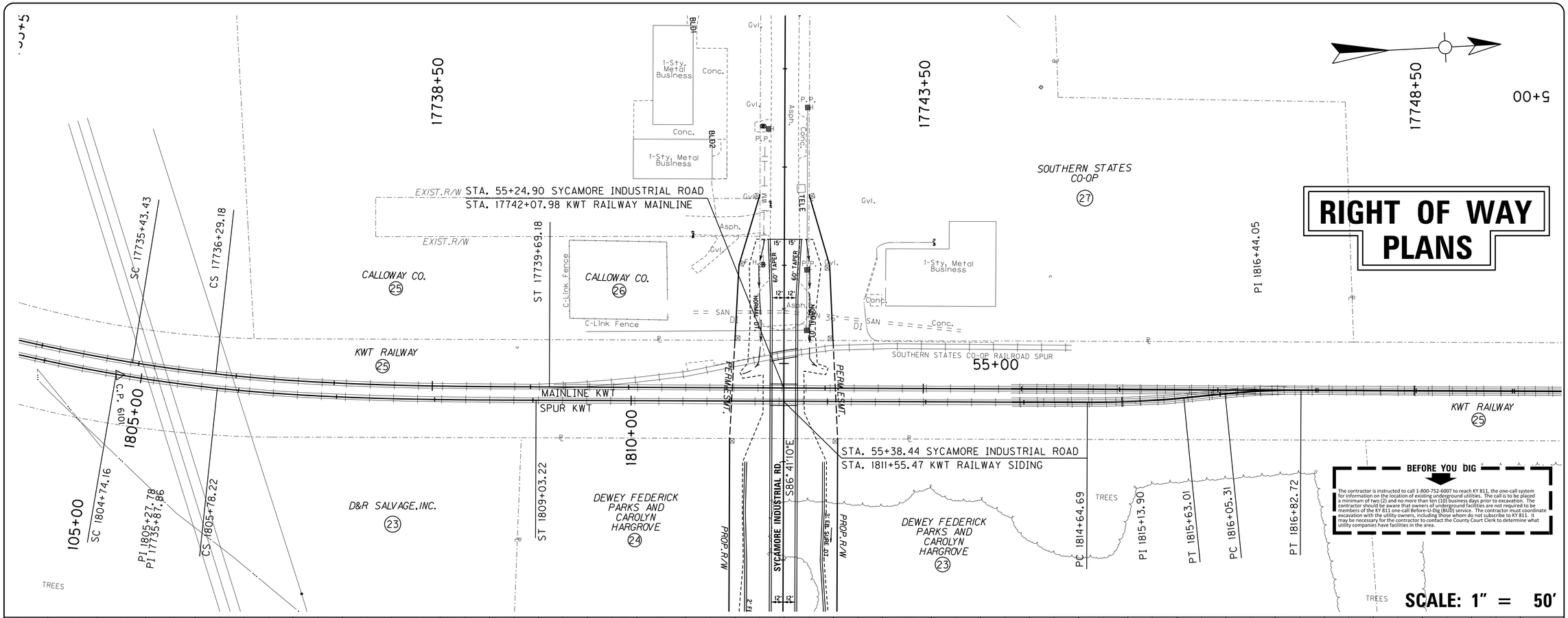
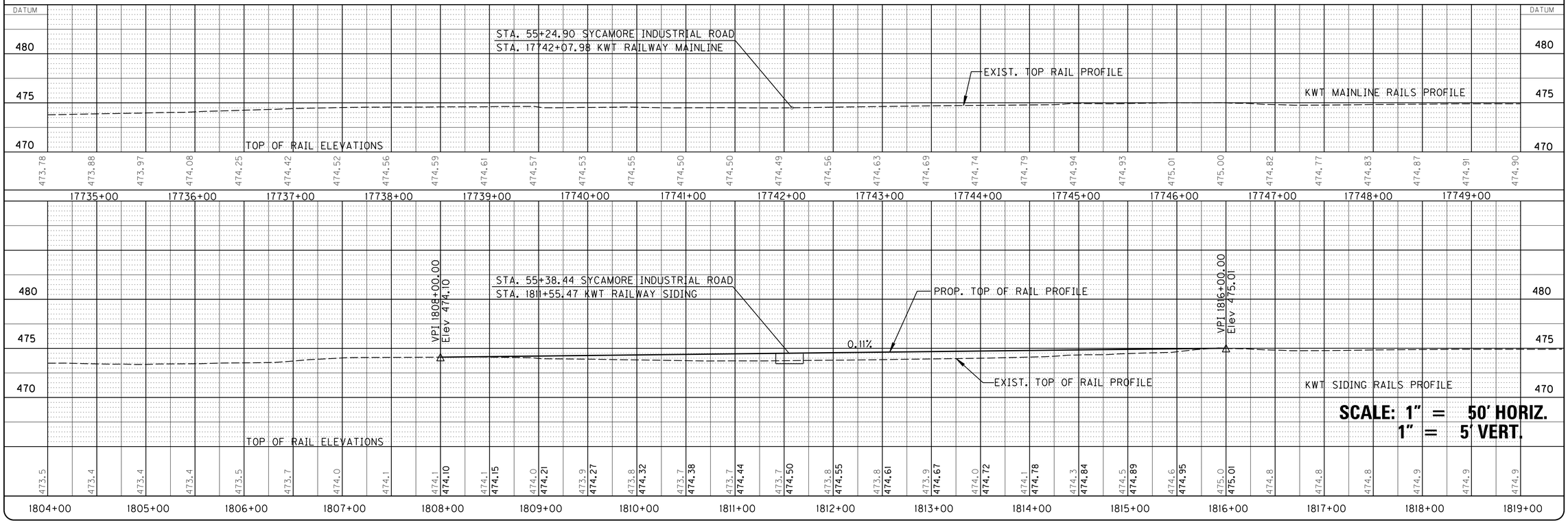
RIGHT OF WAY PLANS



SCALE: 1" = 50'



SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

PROJECT NO. 06093
DATE : DECEMBER 7, 2012
DRAWING BY :
REVISION DATES :
REVISION NOTES :

BFW
500 SOUTH 17th STREET
PADUCAH, KENTUCKY 42003
PHONE - 270.443.1965
403 NORTH COURT STREET
MARION, ILLINOIS 62959
PHONE - 618.997.9190
1215 DIUGUID DRIVE
MURRAY, KENTUCKY 42071
PHONE - 270.753.1967
WWW.BFWENGINEERS.COM

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RAIL CROSSING – SYCAMORE IND. RD.

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
26

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RIGHT OF WAY SUMMARY

PARCEL NO.	NAME	TOTAL AREA OF TRACT		PERMANENT R/W ACQUIRED		EASEMENTS			AREA SEVERED				EXCESS PURCHASED		PORTION REMAINING		SEWER SYSTEM	SEWER SYSTEM AFFECTED BY PROJECT		BUILDINGS ACQUIRED NUMBER				HAZARDOUS WASTE	REMARKS
						PERMANENT	TEMPORARY	CONSTRUC-TION	LEFT		RIGHT							YES	NO	C	R	F	S		
		ACRES	SQ. FT.	ACRES	SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.									
1	CHRYSTA SHAWN ENIX	1.00 (C)	-	-	497	-	-	-	-	-	-	-	-	-	0.99	-	-		✓						D.B. 708 PG. 625 TAX MAP 8-15-4A
2	LOUIE WILLIAMS & WIFE JUDY	1.21 (C)	-	-	2821	-	-	-	-	-	-	-	-	-	1.15	-	-		✓						D.B. 512 PG. 701 TAX MAP 8-15-5
3	HOWARD BRANDON & WIFE RUTH	1.86	-	-	1748	-	-	-	-	-	-	-	-	-	1.82	-	-		✓						D.B. 173 PG. 943 TAX MAP 8-15-5A D.B. 106 PG. 253 TAX MAP 8-15-6
4	SUE LEMMONS	0.31 (C)	-	-	-	-	997	-	-	-	-	-	-	-	0.31	-	-		✓						D.B. 204 PG. 179 TAX MAP 51-1
5	HOWARD BRANDON & WIFE RUTH	4.33 (C)	-	-	2056	-	62	-	-	-	-	-	-	-	4.28	-	-		✓						D.B. 125 PG. 52 TAX MAP 51-105, 51-1A D.B. 106 PG. 523 TAX MAP 51-105, 51-1A D.B. 172 PG. 600 TAX MAP 51-105, 51-1A
6	KENNETH BOGARD	0.66 (C)	-	-	1294	261	-	-	-	-	-	-	-	-	0.63	-	-		✓						D.B. 180 PG. 1953 TAX MAP 51-56F
7	OLLIE HUTCHENS	0.58(C)	-	0.12	-	264	2587	-	-	-	-	-	-	-	0.46	-	-	✓			1		1		D.B. 60 PG. 213 TAX MAP 51-70
8	KENNY MORGAN	0.32 (C)	-	-	2084	-	-	-	-	-	-	-	-	-	0.27	-	-		✓						D.B. 122 PG. 213 TAX MAP 51-108
9	GERALD CARTER	0.16 (C)	-	0.16	-	-	-	-	-	-	-	-	-	-	0.00	-	-		✓						D.B. 425 PG. 115 TAX MAP 51-69
10	GARY NICHOLS	0.24 (C)	-	0.24	-	-	-	-	-	-	-	-	-	-	0.00										D.B. 422 PG. 603 TAX MAP 51-62
11	CITY OF MURRAY, KY	0.16 (C)	-	0.15	-	-	-	-	-	-	-	-	-	-	0.01	-	-		✓						D.B. 422 PG. 601 TAX MAP 51-73A
12	ROBERT OVERBY	1.52 (C)	-	0.58	-	2245	649	-	-	-	-	-	-	-	0.94	-			✓	1					D.B. 198 PG. 417 TAX MAP 51-72
13	MAX H. CHURCHILL	0.50	-	-	2028	-	-	-	-	-	-	-	-	-	0.45	-	-		✓						D.B. 149 PG. 327 TAX MAP 51-71
14	GREG GILSON	1.64 (C)	-	-	1650	896	1710	-	-	-	-	-	-	-	1.60	-	-		✓				1		D.B. 736 PG. 633 TAX MAP 51-64
15	-NOT USED-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
16	GREATER HOPE MISSIONARY BAPTIST CHURCH	2.51	-	-	3194	-	-	-	-	-	-	-	-	-	2.44	-	-		✓						D.B. 204 PG. 169 TAX MAP 51-56D
17	-NOT USED-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
18	CARRLA JO STOKES	1.84 (C)	-	1.84	-	-	-	-	-	-	-	-	-	-	0.00	-	-	✓			1		1		D.B. 596 PG. 502 TAX MAP 51-57
19	TERESA BAST	1.91	-	0.24	-	-	446	-	-	-	-	-	-	-	1.67	-	-		✓						D.B. 261 PG. 322 TAX MAP 51-117
20	RONNIE BAST & TERESA BAST	1.39	-	-	1451	-	454	-	-	-	-	-	-	-	1.36	-	-		✓						D.B. 332 PG. 521 TAX MAP 51-118
21	-NOT USED-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
22	WRUS, INC.	30.77	-	4.06	-	14,783	2585	-	-	-	-	-	-	-	26.71	-	-		✓				1		D.B. 248 PG. 242 TAX MAP 51-56A
23	D&R SALVAGE LLC	31.71	-	3.18	-	325	2120	-	-	-	-	-	-	-	28.53	-	-		✓						D.B. 769 PG. 56 TAX MAP 51-56
24	DEWEY FREDERICK PARKS & CAROLYN HARGROVE	35.00	-	3.54	-	5264	2305	-	-	-	-	-	-	-	31.46	-	-		✓						D.B. 179 PG. 1537 TAX MAP 51-107
25	KWT RAILWAY	-	-	-	-	22,664	-	-	-	-	-	-	-	-	-	-	-		✓						D.B. 170 PG. 605 TAX MAP 51
26	CALLOWAY CO., KY	10.50 (C)	-	-	2261	-	-	-	-	-	-	-	-	-	10.45	-	-		✓						D.B. 154 PG. 2583 TAX MAP 10-31-34
27	SOUTHERN STATES CO-OP	5.93	-	-	2520	-	-	-	-	-	-	-	-	-	5.87	-	-		✓						D.B. 161 PG. 2366 TAX MAP 10-31-35
28	FITTS BLOCK & READY MIX, INC.	29.00 (C)	-	3.43	-	5200	846	-	-	-	-	-	-	-	25.57	-	-		✓						D.B. 173 PG. 1138 TAX MAP 51-75
29	CITY OF MURRAY	1.00	-	-	1069	-	-	-	-	-	-	-	-	-	0.98	-	-		✓						D.B. 157 PG. 2017 TAX MAP 51-75A
30	CITY OF MURRAY	1.10 (C)	-	-	3027	-	-	-	-	-	-	-	-	-	1.02	-	-		✓						D.B. 146 PG. 302 TAX MAP 10-29-7 D.B. 154 PG. 2898 TAX MAP 10-29-8 D.B. 149 PG. 478 TAX MAP 10-29-9
31	GROWERS LOOSE LEAF	1.00 (C)	-	-	-	-	293	-	-	-	-	-	-	-	1.00	-	-		✓						D.B. 87 PG. 479 TAX MAP 10-29-1
32	DEWEY FREDERICK PARKS & CAROLYN HARGROVE	68.00	-	3.48	-	-	2463	-	-	-	-	-	-	-	64.52	-	-		✓						D.B. 179 PG. 1537 TAX MAP 51-92
33	ROBERT SWIFT	1.40	-	-	3512	-	-	-	-	-	-	-	-	-	1.32	-	-		✓						D.B. 753 PG. 512 TAX MAP 10-28-1, 10-28-2
34	ROBERT SWIFT	1.60	-	0.79	-	-	726	-	-	-	-	-	-	-	0.81	-	-		✓						D.B. 753 PG. 512 TAX MAP 51-93
35	FITT'S ENTERPRISES	4.20	-	0.16	-	516	1668	-	-	-	-	-	-	-	4.04	-	-		✓						D.B. 222 PG. 124 TAX MAP 9-33-7&7A
36	CLEAVER CONSTRUCTION CO., INC	15.152	-	-	1639	-	3340	-	-	-	-	-	-	-	15.11	-	-		✓	1				UST	D.B. 777 PG. 293 TAX MAP 50-21
37	MURRAY PAVING, INC.	1.84	-	-	-	-	2313	-	-	-	-	-	-	-	1.84	-	-		✓						D.B. 180 PG. 1045 TAX MAP 51-94

(C) CALCULATED AREA
(LL) LANDLOCKED PARCEL

TYPE SEWER SYSTEM
1. PRIVATE - INDIVIDUAL
2. PRIVATE - MULTI PARTY
3. PUBLIC
4. NONE
5. NOT APPLICABLE

BUILDINGS ACQUIRED CODE
C - COMMERICAL
R - RESIDENTIAL
F - FARM
S - STORAGE

HAZARDOUS WASTE
UST - UNDERGROUND STORAGE TANK

RIGHT OF WAY PLANS

PROJECT NO. :
DRAWING BY :
REVISION DATES :
REVISION NOTES :
DATE :

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1315 DRUID DRIVE
MURRAY, KENTUCKY 42071
PHONE: 270.753.7307
500 SOUTH 7TH STREET
LOUISVILLE, KENTUCKY 40202
PHONE: 270.443.1486
401 NORTH COURT STREET
BOWLING GREEN, KY 42101
PHONE: 615.689.9100
WWW.BFWENGINEERS.COM

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RIGHT-OF-WAY SUMMARY

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
27

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CHRYSTA SHAWN ENIX ①

LOUIE WILLIAMS AND WIFE JUDY ②

HOWARD BRANDON AND WIFE RUTH ③

MARTY FUTRELL

KENNETH BOGARD ⑥

PERM. DRAINAGE ESMT.

KENNY MORGAN ⑧

OLLIE HUTCHENS ⑦

TEMP. ESMT.

GERALD CARTER ⑨

GARY NICHOLS ⑩

CITY OF MURRAY ⑪

ROBERT OVERBY ⑫

MAX H. CHURCHILL, INC. ⑬

GREG GILSON ⑭

CHERYL HICKS ⑮

TRUSTEES OF THE GREATER HOPE MISSIONARY BAPTIST CHURCH ⑯

CARRLA JO STOKES

HOWARD BRANDON AND WIFE RUTH ⑤

SUE LEMMONS ④

TERESA BAST ⑲

RONNIE BAST AND WIFE TERESA ⑳

BILLIE KEATING

PROP. R/W

MURRAY BUSINESS LOOP

MATCHLINE STA. 80+00

75+00

60+00

54+73

17713+50

S84°00'14"E

S80°30'14"E

S9°20'14"W

S9°59'20"E

S54°36'28"E

PROP. R/W S88°05'41"E 764.48'

N87°38'14"W 656.96'

R 5985.00

L 511.5034 N88°11'09"W

LC 511.35

MAINLINE
P.I. 76+54.58
X = 891332.1463
Y = 1745857.6845
D = 10°07'49.07"
C = 0°57'58.33"
T = 525.60'
L = 1048.47'
R = 5930.00'
Es = 23.25'
Se = N.C.

RIVER ROAD
P.I. 52+32.06
X = 891273.3033
Y = 1745656.3492
D = 3°48'08.56"
C = 1°54'35.49"
T = 99.58'
L = 199.09'
R = 3000.00'
Es = 1.65'
Se = N.C.

P.I. 62+73.83
X = 890604.3727
Y = 1745275.2996
D = 62°22'36.00"
C = 5°28'58.26"
T = 632.58'
L = 1137.67'
R = 1045.00'
Es = 176.55'
Se = See Xsects

RIGHT OF WAY PLANS

SCALE 1" = 50'

PROJECT NO.: 05093
DRAWING BY:
REVISION DATES:
REVISION NOTES:
DATE:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1315 DIXIGRID DRIVE
MURRAY, KENTUCKY 42071
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505 SOUTH 7TH STREET
PADUCAH, KENTUCKY 42003
PHONE: 618.697.9190
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RIGHT-OF-WAY PLAN - STA. 69+40.90 TO STA. 80+00

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
28

RIGHT OF WAY PLANS

SCALE 1" = 50'

PROJECT NO. :
DRAWING BY :
REVISION DATES :
REVISION NOTES :
DATE :

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

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RIGHT OF WAY PLAN SHEET

MURRAY BUSINESS LOOP
CITY OF MURRAY
MURRAY, KY 42071

SHEET
29

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MATCHLINE STA. 99+00

177+28+50

177+23+50

177+18+50

177+13+50

95+00

90+00

80+00

75+00

70+00

65+00

60+00

55+00

50+00

54+73

MARY ENIX

CHRYSTA SHAWN ENIX (P 1)

LOUIE WILLIAMS AND WIFE JUDY (P 2)

HOWARD BRANDON AND WIFE RUTH (P 3)

HOWARD BRANDON AND WIFE RUTH (P 5)

SUE LEMMONS (P 4)

KENNETH BOGARD (P 6)

MARTY FUTRELL

RIVER RD.

KY 121 / US 641 N

EXIST R/W

POB 50+00.07

GLENDALE RD.

STA. 70+90.78
BEGIN R/W

S80°30'14"E

(P 7) (P 8) (P 9) (P 10) (P 11)

ROBERT OVERBY (P 12)

GREG GILSON (P 14)

CHERYL HICKS (P 15)

(P 13)

CARRLA JO STOKES (P 18)

TERESA BAST (P 19)

RONNIE BAST AND WIFE TERESA (P 20)

BILLIE KEATING

(P 16)

KWT RAILWAY (P 25)

WRUS, INC. (P 22)

PROP. R/W

(P 23)

SEE INSET "A"

PARCEL OWNERS

- (P 7) OLLIE HUTCHENS
- (P 8) KENNY MORGAN
- (P 9) GERALD CARTER
- (P 10) GARY NICHOLS
- (P 11) CITY OF MURRAY
- (P 13) MAX H. CHURCHILL, INC.
- (P 16) TRUSTEES OF THE GREATER HOPE MISSONARY BAPTIST CHURCH
- (P 17) NOT USED
- (P 21) NOT USED

PROPOSED EASEMENTS & R/W

- ⓐ PROP. R/W
- ⓑ PROP. TEMP. ESMT.
- ⓒ PERM. DRAINAGE ESMT.

RIGHT OF WAY PLANS

INSET "A"
SCALE: 300' = 1"

SCALE 1" = 100'

PROJECT NO. :
DRAWING BY :
REVISION DATES : DATE:
REVISION NOTES :

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

231 GRUBBS DRIVE • 400 SOUTH 17th STREET
MURRAY, KENTUCKY 42071 • PADUCAH, KENTUCKY 42001 • MARION, ILLINOIS 62959
PHONE: (270) 753-1967 • PHONE: (270) 443-0395 • PHONE: (618) 997-1344

BFW
WWW.BFWENGINEERS.COM

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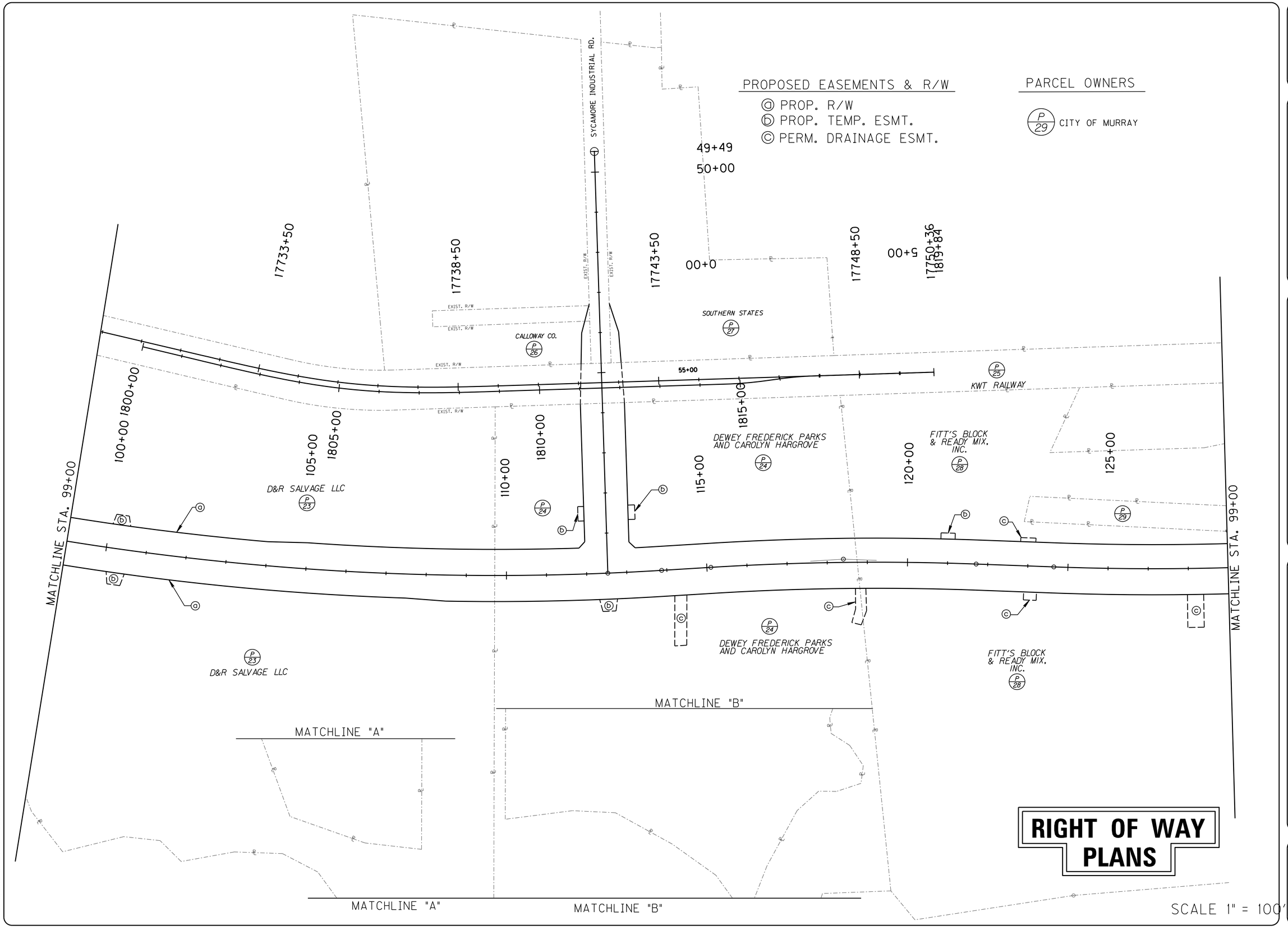
RIGHT OF WAY STRIP MAP 1

MURRY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
30



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PROJECT NO.:
DRAWING BY:
REVISION DATES:
REVISION NOTES:
DATE:

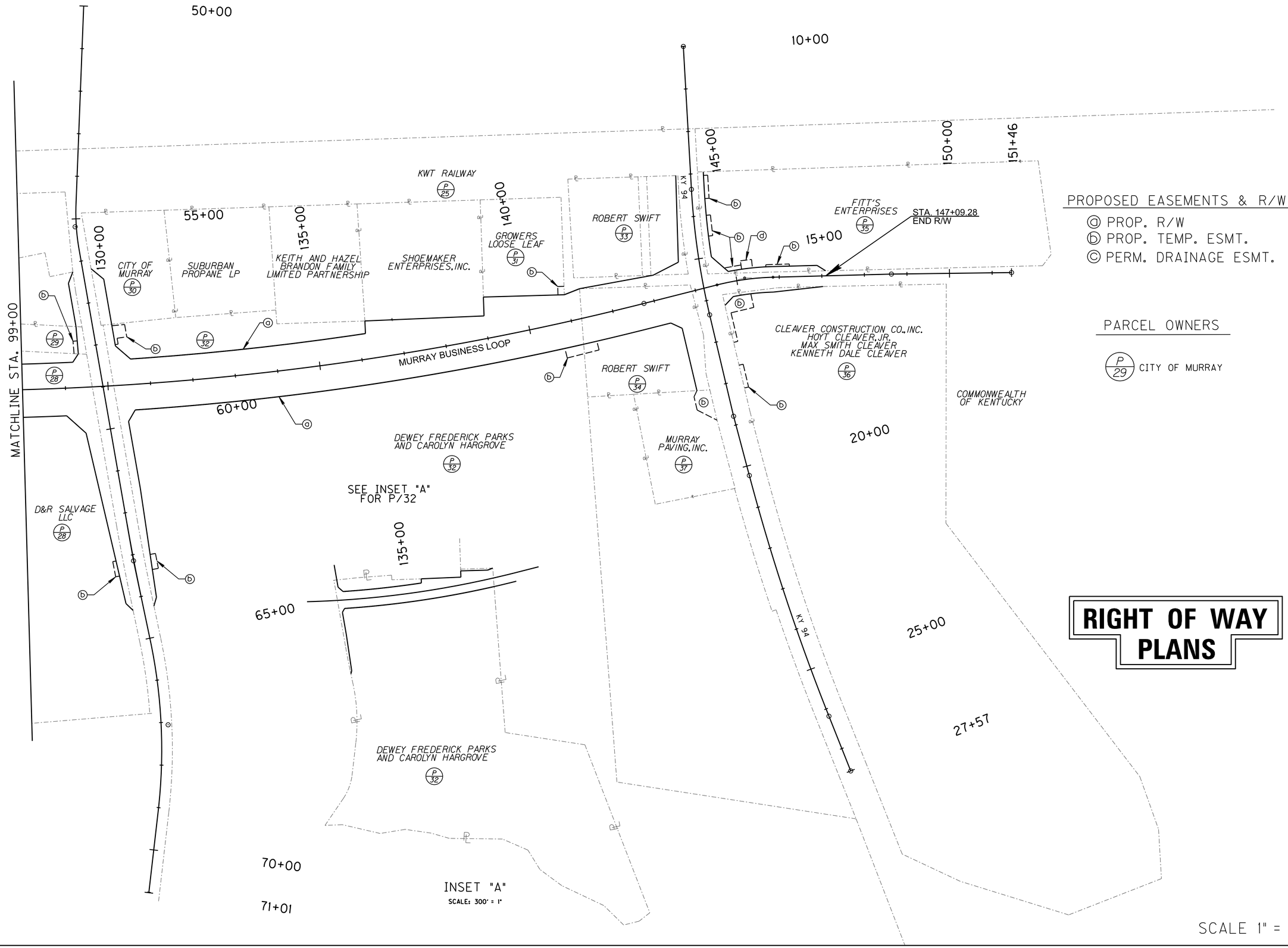
BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

BFW

RIGHT OF WAY STRIPMAP 2

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 MORTH 5TH STREET
MURRAY, KY 42071

SHEET
31



PROPOSED EASEMENTS & R/W

ⓐ PROP. R/W
ⓑ PROP. TEMP. ESMT.
ⓒ PERM. DRAINAGE ESMT.

PARCEL OWNERS

P 29 CITY OF MURRAY

RIGHT OF WAY PLANS

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PROJECT NO.:
DRAWING BY:
REVISION DATES:
REVISION NOTES:
DATE:

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ENGINEERING & TESTING, INC.

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RIGHT OF WAY STRIP MAP 3

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
32

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BEGIN CONSTRUCTION
STA. 50+91.87

POINT DISCHARGE
DDA 1

POINT DISCHARGE
DDA 2

POINT DISCHARGE
DDA 3

STA. 55+79.35 KY 121 / US 641 ×
STA. 70+30.94 MAINLINE

POINT DISCHARGE
DDA 4

BEGIN CONSTRUCTION
STA. 69+40.90

POINT DISCHARGE
DDA 5

POINT DISCHARGE
DDA 6

POINT DISCHARGE
DDA 7

POINT DISCHARGE
DDA 8

DDA 9

DDA 10

DDA 11

DDA 12

END CONSTRUCTION
STA. 60+63.20

MATCHLINE STA. 80+00

DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 1	0.06	216.00
DDA 2	0.03	108.00
DDA 3	0.08	288.00
DDA 4	0.07	252.00
DDA 5	0.03	108.00
DDA 6	0.11	396.00
DDA 7	0.16	576.00
DDA 8	0.68	288.00
DDA 9	0.03	108.00
DDA 10	0.04	144.00
DDA 11	0.20	720.00
DDA 12	0.07	252.00

EROSION CONTROL NOTES

ALL SILT TRAPS SHALL BE SIZED TO RETAIN A VOLUME OF 3,600 CUBIC FEET PER DISTURBED CONTRIBUTING ACRE.

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED GROUND DURING EACH PHASE OF CONSTRUCTION. THE CONTRACTOR SHALL COMPUTE THE VOLUME NECESSARY TO CONTROL SEDIMENT DURING EACH PHASE OF CONSTRUCTION. AS WORK PROCEEDS, SILT TRAPS MAY BE ADDED OR REMOVED IN ORDER TO ACHIEVE THE BEST MANAGEMENT PLAN. THE REQUIRED VOLUME AT EACH ADDED SILT TRAP SHALL BE COMPUTED AS UPGRADIENT CONTRIBUTING AREAS ARE DISTURBED OR ARE STABILIZED TO THE SATISFACTION OF THE ENGINEER. THE REQUIRED VOLUME CALCULATION FOR EACH SILT TRAP SHALL BE DETERMINED BY THE CONTRACTOR AND VERIFIED BY THE ENGINEER. THE REQUIRED VOLUME AT EACH SILT TRAP MAY BE REDUCED BY THE FOLLOWING AMOUNTS:

- UPGRADIENT AREAS NOT DISTURBED (ACRES).
- UPGRADIENT AREAS THAT HAVE BEEN RECLAIMED AND PROTECTED BY EROSION CONTROL BLANKET OR OTHER GROUND PROTECTION MATERIAL (ACRES).
- UPGRADIENT AREAS THAT HAVE BEEN PROTECTED BY SILT FENCE (ACRES). AREAS PROTECTED BY SILT FENCE SHALL BE COMPUTED AT A MAXIMUM RATE OF 100 SQUARE FOOT PER LINEAR FOOT OF SILT FENCE.
- UPGRADIENT AREAS THAT HAVE BEEN PROTECTED BY SILT TRAPS (ACRES).

THE EROSION CONTROL PLAN SHALL BE ANNOTATED AS THE WORK PROCEEDS BY THE CONTRACTOR TO DETAIL THE SELECTION OF EACH EROSION CONTROL DEVICE USED AND THE VOLUME PROVIDED BY EACH SILT TRAP IN ACCORDANCE WITH THE DOCUMENTATION PROCEDURES ESTABLISHED BY THE DIVISION OF CONSTRUCTION.

ONE SILT TRAP, TYPE A, ALTERNATE NUMBER 2 OR SILT TRAP, TYPE B SHALL ALWAYS BE PLACED AT THE MOST REMOTE DOWNSTREAM COLLECTION POINT PRIOR TO DISCHARGING INTO A BLUE LINE STREAM OR ONTO AN ADJACENT PROPERTY OWNER.

BEFORE YOU DIG

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those which do not subscribe to KY 811, as it may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

RIGHT OF WAY PLANS

EROSION CONTROL LEGEND

- SILT TRAP TYPE A ALTERNATE 1 — A
- SILT TRAP TYPE A ALTERNATE 2
- SILT TRAP TYPE B
- SILT CHECK TYPE C
- SILT FENCE — SF
- TEMPORARY SILT DITCH
- DISTURBED DRAINAGE AREA
- OVERLAND SHEET FLOW
- PROPOSED R/W
- PROPOSED EASEMENT

SCALE 1" = 50'

PROJECT NO. : 05093
DATE:
DRAWING BY :
REVISION DATES :
REVISION NOTES :

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 RUDDELL DRIVE, MURRAY, KENTUCKY 42071 • PADUCAH, KENTUCKY 42003 • PHONE: (270) 753-1901
100 SOUTH 17th STREET, PADUCAH, KENTUCKY 42003 • PHONE: (270) 575-9000
451 NORTH COURT STREET, MARION, ILLINOIS 62959 • PHONE: (618) 997-5000
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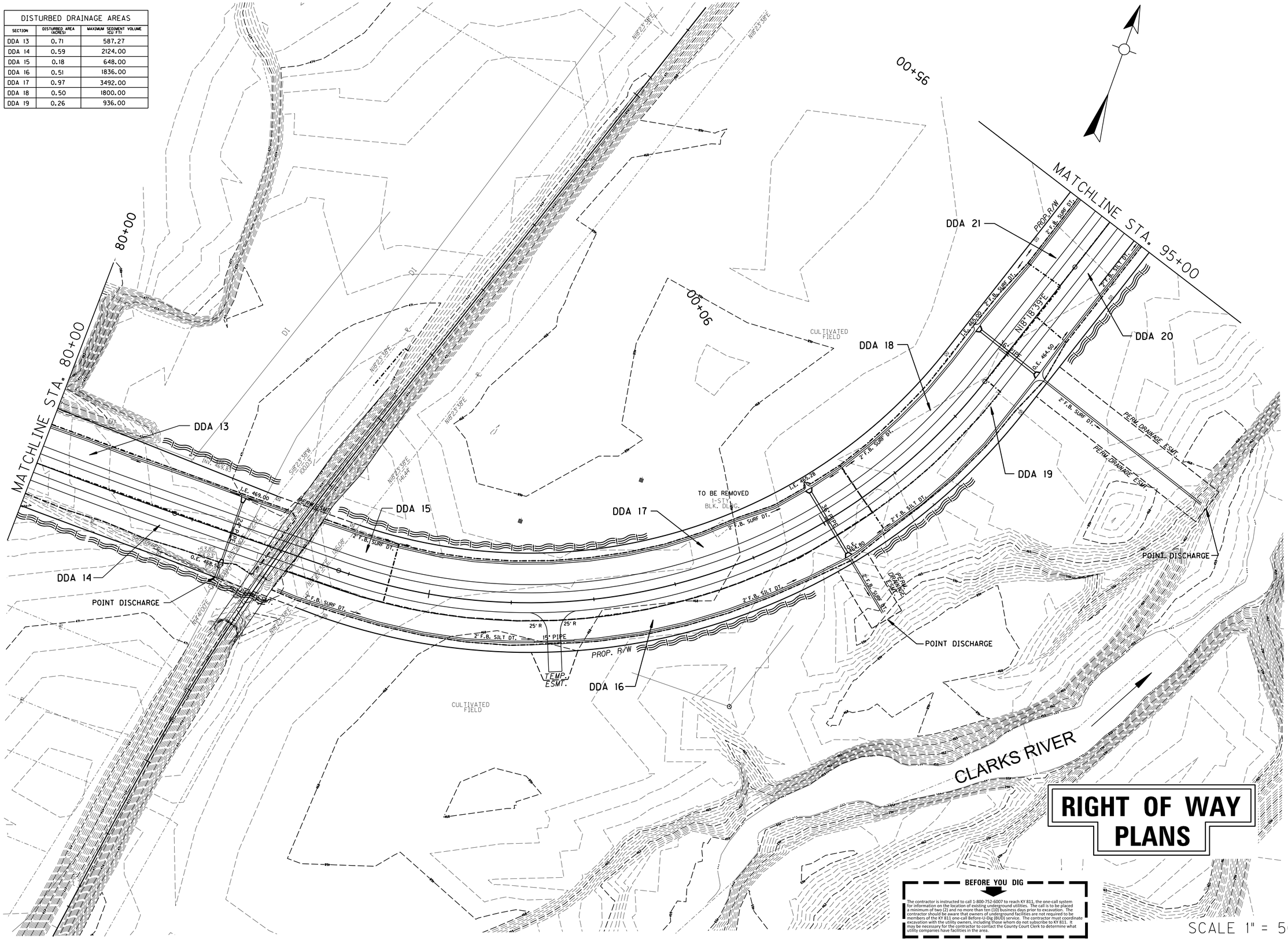
B.O.P. TO STA. 80+00

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
33

DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 13	0.71	587.27
DDA 14	0.59	2124.00
DDA 15	0.18	648.00
DDA 16	0.51	1836.00
DDA 17	0.97	3492.00
DDA 18	0.50	1800.00
DDA 19	0.26	936.00



RIGHT OF WAY PLANS

BEFORE YOU DIG

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

SCALE 1" = 50'

PROJECT NO.: 05093 DATE:
DRAWING BY:
REVISION DATES:
REVISION NOTES:

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PLAN - STA. 80+00 TO STA. 95+00

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
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DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 20	0.22	792.00
DDA 21	0.28	2124.00
DDA 22	1.71	6161.16
DDA 23	0.51	1836.00

MATCHLINE STA. 95+00

MATCHLINE STA. 110+00

95+00 100+00 105+00 80+00 110+00

DDA 20 DDA 21 DDA 22 DDA 23

POINT DISCHARGE POINT DISCHARGE

PERM. DRAINAGE ESMT.

TEMP. ESMT.

PROP. R/W

2' F.B. SURF DT. 2' F.B. SILT DT.

18" PIPE 30" PIPE

25' R 45:1 TAPER

SILT DITCH

N64°43'24"E 99.19'

N18°18'39"E N1°36'41"E

S84°41'12"E

CULTIVATED FIELD TREES

TVA MARSHALL-BENTON-MURRAY 161 KV

POWER LINE

RIGHT OF WAY PLANS

BEFORE YOU DIG

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SCALE 1" = 50'

PROJECT NO. : 05093
DRAWING BY :
REVISION DATES :
REVISION NOTES :
DATE :

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1315 DUGDALE DRIVE, MURRAY, KENTUCKY 42071 • 600 SOUTH 7TH STREET, PADUCAH, KENTUCKY 42003 • 403 NORTH COURT STREET, MARION, ILLINOIS 62959
PHONE: (270) 753-1616 • FAX: (270) 753-1617
WWW.BFWENGINEERS.COM

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PLAN - STA. 95+00 TO STA. 110+00

MURRAY BUSINESS LOOP
CITY OF MURRAY
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MURRAY, KY 42071

SHEET
35

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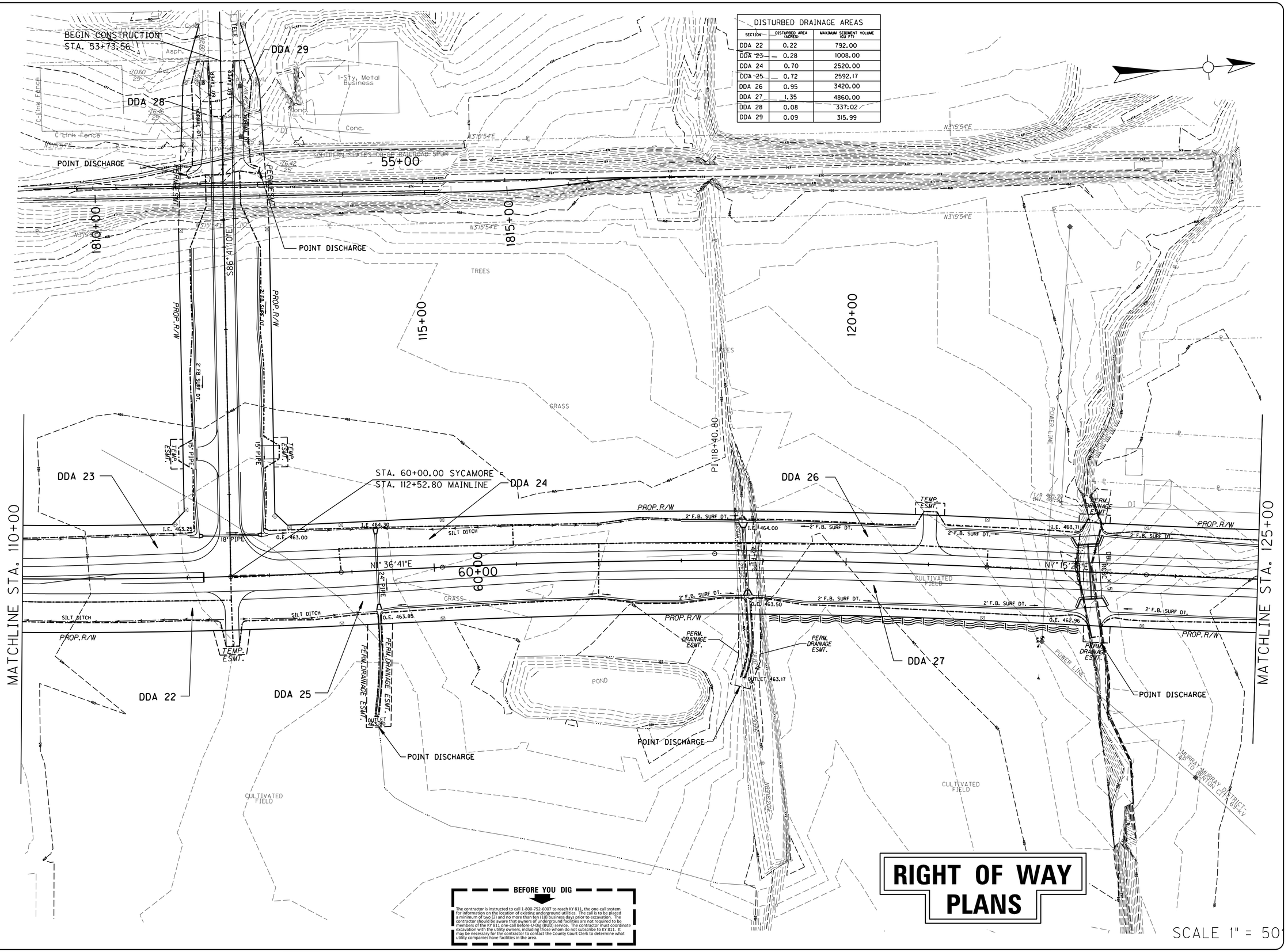

DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 22	0.22	792.00
DDA 23	0.28	1008.00
DDA 24	0.70	2520.00
DDA 25	0.72	2592.17
DDA 26	0.95	3420.00
DDA 27	1.35	4860.00
DDA 28	0.08	337.02
DDA 29	0.09	315.99

BEFORE YOU DIG

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RIGHT OF WAY PLANS

SCALE 1" = 50'

PROJECT NO.: 05093 DATE:
DRAWING BY:
REVISION DATES:
REVISION NOTES:

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PLAN - STA. 110+00 TO STA. 125+00

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
36

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MATCHLINE STA. 125+00

MATCHLINE STA. 140+00

65+00

130+00

135+00

70+00

DDA 30

DDA 31

DDA 32

DDA 33

DDA 34

DDA 35

DDA 36

STA. 58+98.42 OLD CONCORD =
STA. 129+88.29 MAINLINE

POINT DISCHARGE

POINT DISCHARGE

POINT DISCHARGE

PROP. R/W

2' F.B. SURF DT.

2' F.B. SILT DT.

I.E. 465.75

I.E. 463.50

I.E. 464.00

I.E. 462.70

I.E. 462.75

O.E. 465.00

O.E. 463.00

O.E. 462.98

O.E. 462.50

O.E. 462.25

OUT. 462.67

OUT. 462.19

24" PIPE

36" PIPE

50' R

N7°53'43"E

N7°15'28"E

SILT DITCH

NORMAL DT.

PERM. DRAINAGE EASE.

TEMP. EASE.

DRAIN. EASE.

1-Sty. Metal Business

1-Sty. Conc. Blk. Business

MTL. BLDG.

1-STY BLK. BLDG.

BARN

POND

GRASS

SILO

SILOS

DUMP AREA

CULTIVATED FIELD

Chain Link Fence

DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 30	0.31	1116.41
DDA 31	0.66	2392.88
DDA 32	0.18	646.13
DDA 33	0.29	1030.50
DDA 34	0.23	825.97
DDA 35	0.77	2768.71
DDA 36	0.62	2217.98

BEFORE YOU DIG

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SCALE 1" = 50'

RIGHT OF WAY PLANS

PROJECT NO. :
DRAWING BY :
REVISION DATES :
REVISION NOTES :
DATE :

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
2321 CRUSER DRIVE, SUITE 200, LEXINGTON, KENTUCKY 40511 • PHONE (859) 233-1626
400 SOUTH 17th STREET, SUITE 200, LOUISVILLE, KENTUCKY 40202 • PHONE (502) 584-1626
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WWW.BFWENGINEERS.COM

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PLAN - STA. 125+00 TO STA. 140+00

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
37

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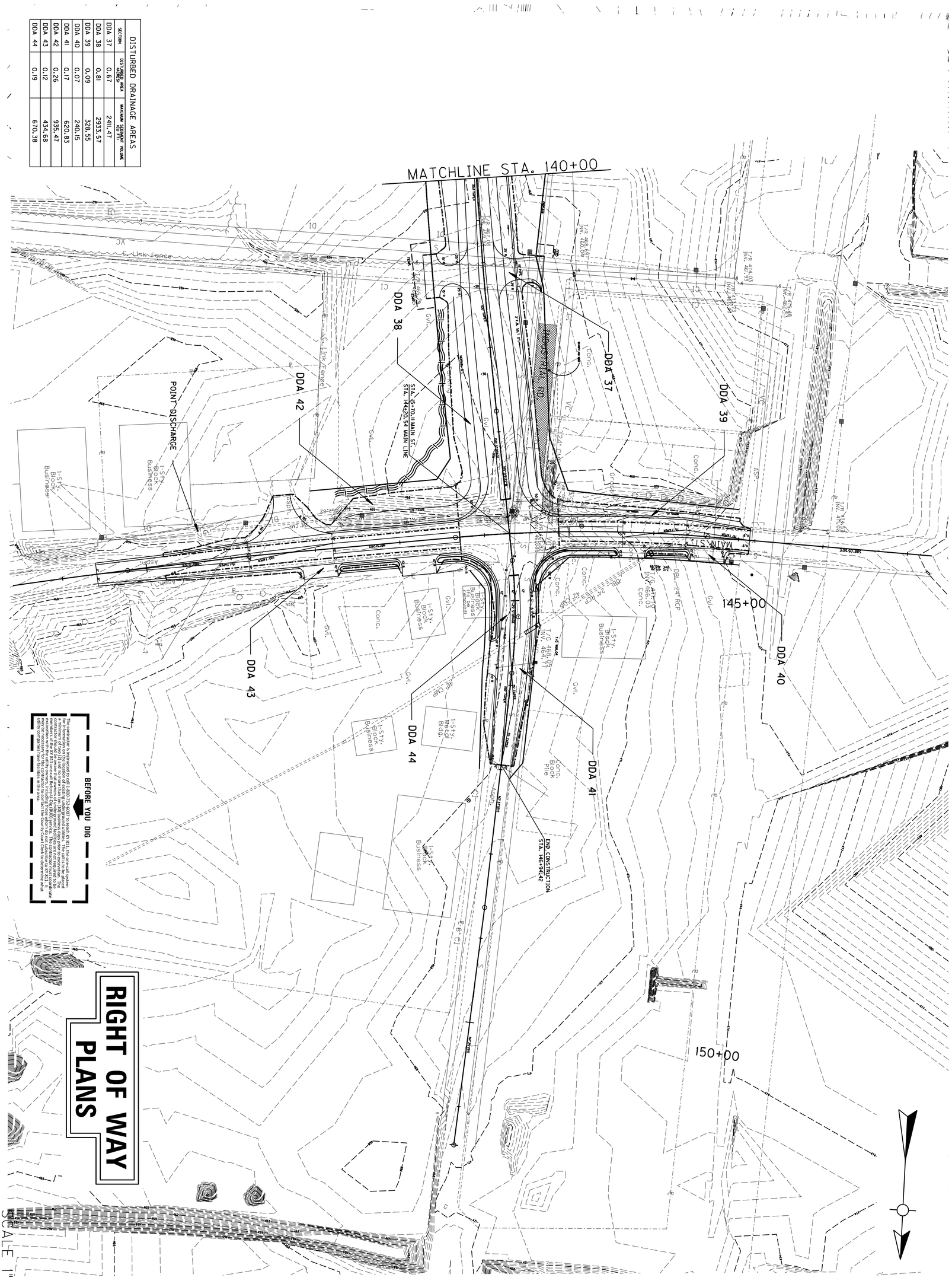
DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 37	0.67	2411.47
DDA 38	0.81	2933.57
DDA 39	0.09	328.55
DDA 40	0.07	240.15
DDA 41	0.17	620.83
DDA 42	0.26	935.47
DDA 43	0.12	434.68
DDA 44	0.19	670.38



SCALE 1" = 50'

SHEET 38

PLAN - STA. 140+00 TO STA. 151+00

MURRAY BUISNESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

BFW

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

1215 DIAGUID DRIVE
MURRAY, KENTUCKY 42071
PHONE - 270.753.7307

500 SOUTH 17th STREET
PADUCAH, KENTUCKY 42003
PHONE - 270.443.1995

403 NORTH COURT STREET
MARION, ILLINOIS 62959
PHONE - 618.997.9190

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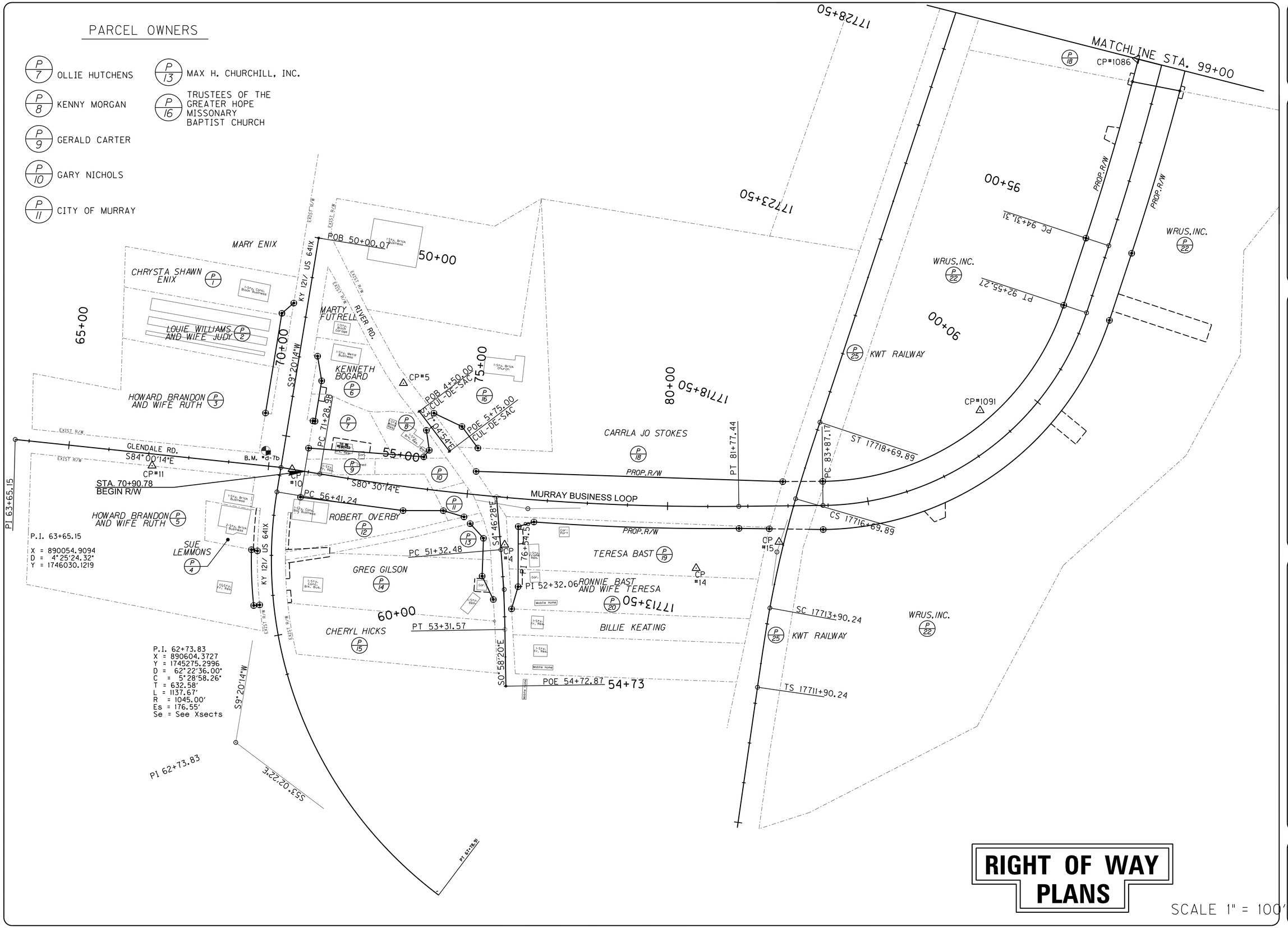
PROJECT NO. : DATE :
DRAWING BY :
REVISION DATES :
REVISION NOTES :



RIGHT OF WAY PLANS

SCALE 1" = 100'

PROJECT NO.:
DRAWING BY:
REVISION DATES:
REVISION NOTES:
DATE:

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COORDINATE CONTROL

MURRY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
39

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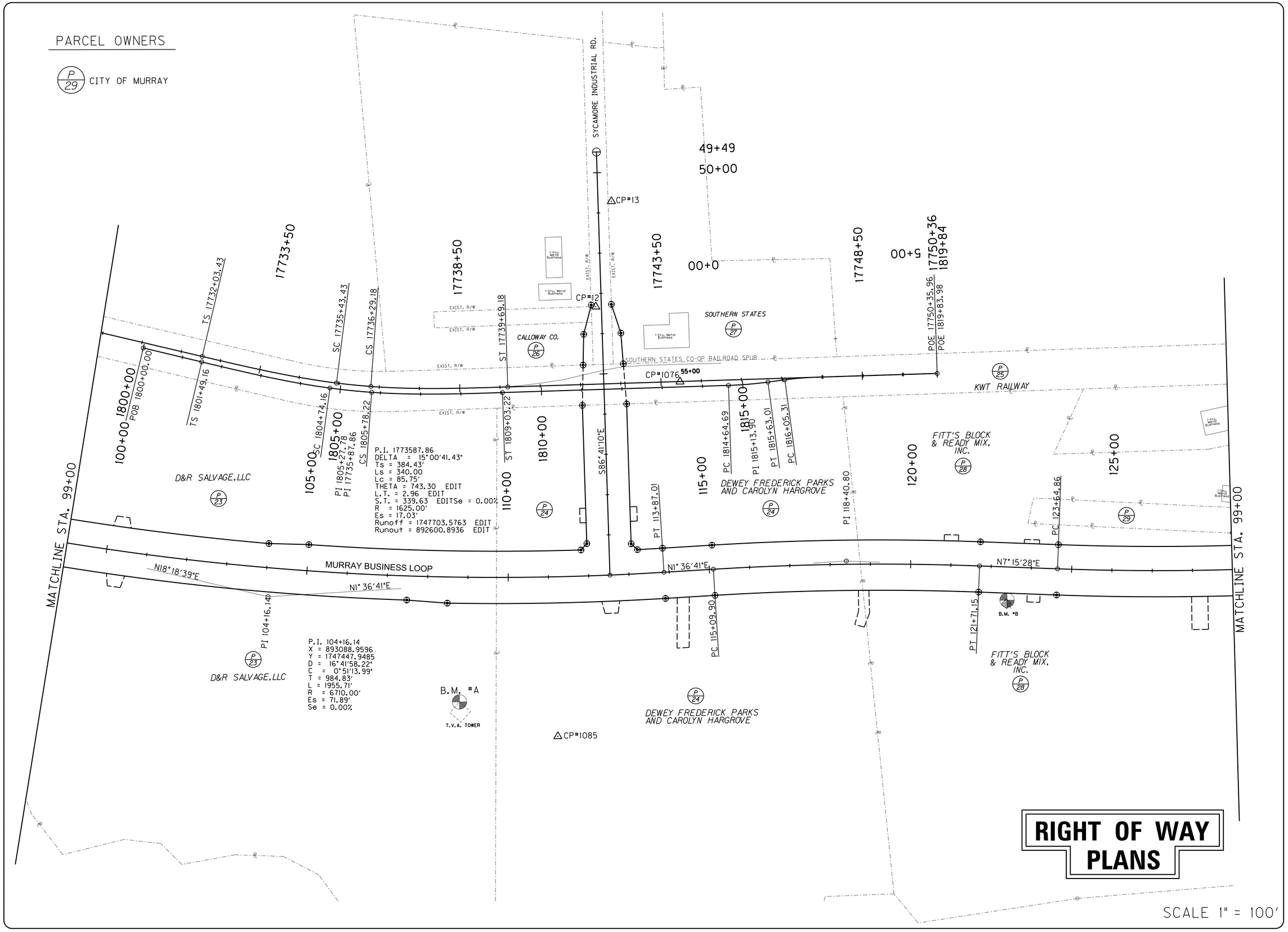

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PROJECT NO.:
DRAWING BY:
REVISION DATES:
REVISION NOTES:
DATE:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

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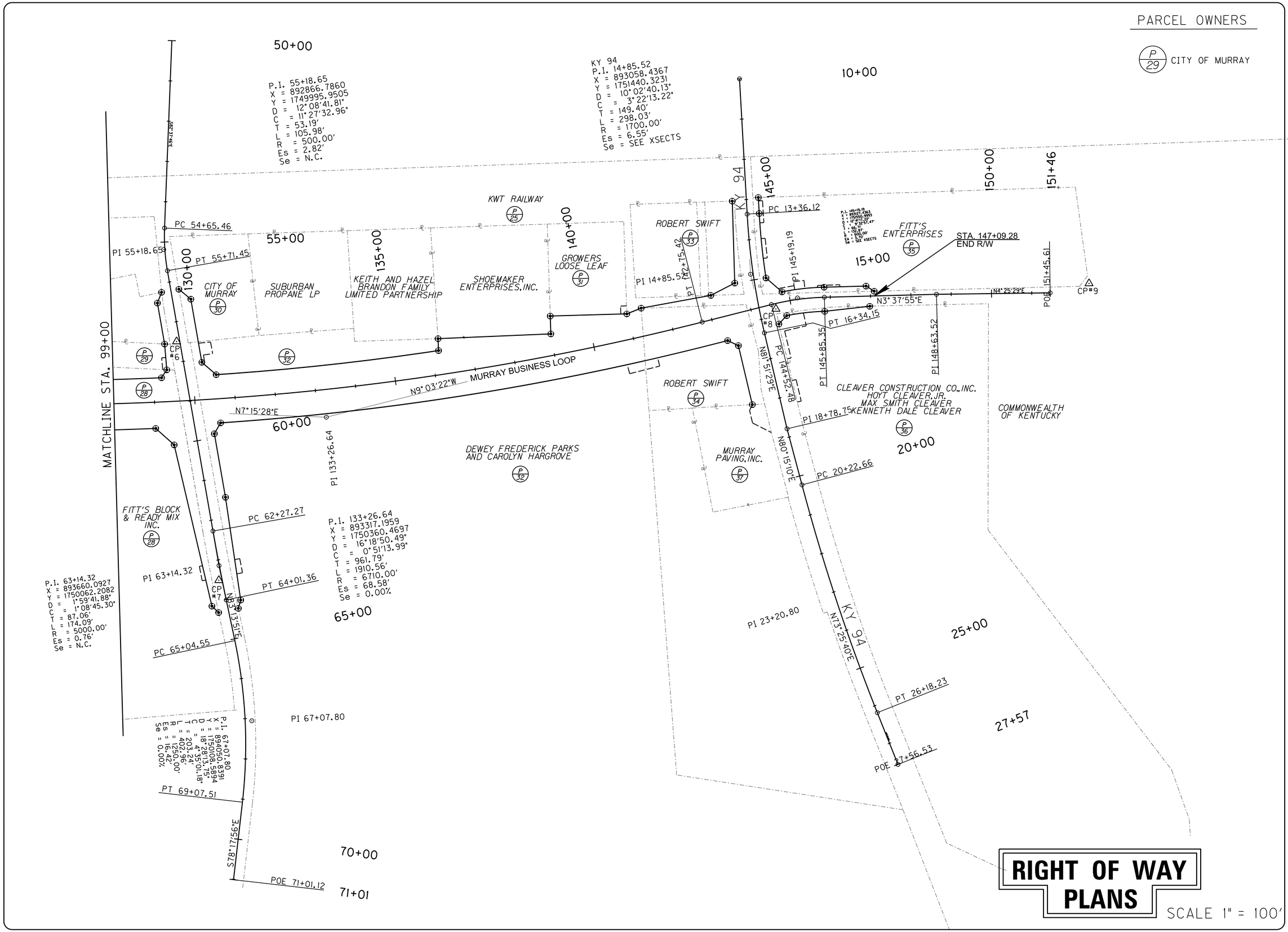
COORDINATE LAYOUT

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 MORTH 5TH STREET
MURRAY, KY 42071

SHEET
40



PROJECT NO.:
DRAWING BY:
REVISION DATES:
REVISION NOTES:
DATE:

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COORDINATE CONTROL

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
41

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COORDINATE CONTROL POINTS

POINT	DESCRIPTION	Project Coordinates			STATION and OFFSET
		NORTH (Y)	EAST (X)	ELEV. (Z)	
CP 4	MAG NAIL RIVER RD.	1745767.8710	891274.3000	484.26	51+21.01 10.28' Left
CP 5	MAG NAIL RIVER RD.	1746170.4780	891022.1440	490.38	
BM	BENCHMARK d-7b	1745999.8250	890682.9420	509.11	69+96.69 33.61' Left
CP 6	MAG NAIL INDUSTRIAL	1750007.2658	893096.8918	466.04	57+48.46 7.90' Right
CP 7	MAG NAIL INDUSTRIAL	1740057.9181	893696.6855	463.33	63+49.81 7.99' Right
CP 8	MAG NAIL MAINLINE	1751494.6853	893150.0984	467.22	144+60.79 13.07' Right
CP 9	MAG NAIL MAINLINE	1752274.6001	893156.4763	471.58	
CP 10	MAG NAIL MAINLINE	1745956.1363	890744.8001	509.07	51+21.01 0.20' Left
CP 11	MAG NAIL MAINLINE	1745964.7766	890395.8148	515.94	51+21.01 29.34' Right
CP 12	MAG NAIL SYCAMORE	1748323.6209	892443.7316	480.23	53+32.47 13.79' Right
CP 13	MAG NAIL SYCAMORE	1478385.0331	892187.1553	485.72	50+72.14 33.17' Left
CP 14	MAG NAIL R.R.	1745709.5840	891751.4590	471.04	80+72.21 153.69' Right
CP 15	MAG NAIL R.R.	1745709.5840	891751.4590	472.39	17715+05.65 12.07' Left
CP 1076	MAG NAIL R.R.	1748514.6112	892648.7684	474.07	17743+97.20 0.57' Right
CP 1085	MAG NAIL MAINLINE	1748133.5547	893643.8801	465.46	111+15.03 395.78' Right
CP 1086	MAG NAIL MAINLINE	1746978.0311	892848.9959	466.57	98+99.47 64.02' Left
CP 1091	MAG NAIL MAINLINE	1746102.6790	892458.7361	468.60	88+77.31 88.71' Left
BM	BENCHMARK A	1747898.0272	893391.8391	467.36	108+83.29 309.87' Right
BM	BENCHMARK B	1749271.9473	893267.1817	467.92	122+42.58 82.56' Right
POB	KY 121/US 641X	1746532.1801	890811.0330		50+00.07
PC	KY 121/US 641X	1745899.5019	890707.0061		56+41.24
POE	KY 121/US 641X	1745480.7221	890723.3169		60+63.20
PI	MAINLINE	1746030.1219	890054.9094		63+65.15
PC	MAINLINE	1745960.5738	890717.0477		70+30.94
POB	RIVER ROAD CUL-DE-SAC	1746100.3241	891061.6411		4+50.00
POE	RIVER ROAD CUL-DE-SAC	1746000.6021	891137.0104		5+75.00
POB	RIVER ROAD	1745887.6028	891253.9880		50+00.00
PC	RIVER ROAD	1745755.5862	891265.0146		51+32.48
PT	RIVER ROAD	1745656.3492	891273.3033		52+32.06
POE	RIVER ROAD	1745556.7810	891274.9928		53+31.57
PI	RIVER ROAD	1745415.4958	891277.3902		54+72.87
PT	MAINLINE	1745944.3988	890813.7459		71+28.98
PC	MAINLINE	1745857.6845	891332.1463		76+54.58
PT	MAINLINE	1745863.5020	891857.7170		81+77.44
PC	MAINLINE	1745865.8234	892067.4365		83+87.17
PI	MAINLINE	1745871.3555	892567.2167		88+86.99
PT	MAINLINE	1746345.8587	892724.2444		92+55.27
PC	MAINLINE	1746512.9808	892779.5502		94+31.31
PI	MAINLINE	1747447.9485	893088.9596		104+16.14
POB	SYCAMORE INDUST. RD.	1748359.0557	892061.8599		49+48.56
POE	SYCAMORE INDUST. RD.	1748298.2777	893111.5388		60+00.00
PT	MAINLINE	1748432.3935	893116.6547		113+87.01
PC	MAINLINE	1748555.2340	893120.1105		115+09.90

COORDINATE SYSTEM

Coordinates for horizontal control were obtained from the City of Murray. Monument Control Network.

Coordinates are based on State Plane Coordinate System (Nad-83) Kentucky South Zone 1602 and in U.S. Survey Feet.

BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. City of Murray Control Monument Designation: BM-D7B was used as the basis for vertical datum

COORDINATE CONTROL POINTS

POINT	DESCRIPTION	Project Coordinates			STATION and OFFSET
		NORTH (Y)	EAST (X)	ELEV. (Z)	
PI	MAINLINE	1748885.9958	893129.4157		118+40.80
PT	MAINLINE	1749214.2373	893171.2186		121+71.15
PC	MAINLINE	1749406.3883	893195.6898		123+64.86
POB	OLD CONCORD RD.	1750062.4872	892352.4175		50+00.00
PC	OLD CONCORD RD.	1750002.7743	892814.0339		54+65.46
PI	OLD CONCORD RD.	1749995.9505	892866.7860		55+18.65
PT	OLD CONCORD RD.	1750000.3777	892919.7931		55+71.45
PC	OLD CONCORD RD.	1750054.9624	893573.3392		62+27.27
POE	OLD CONCORD RD.	1750062.2082	893660.0927		63+93.20
PI	MAINLINE	1750360.4697	893317.1959		133+26.64
PT	MIANLINE	1751310.2677	893165.8067		142+75.42
PC	MAINLINE	1751485.1232	893137.9363		144+52.48
PI	MAINLINE	1751550.9993	893127.4363		145+19.19
PT	MAINLINE	1751550.9993	893127.4363		145+85.35
POE	MAINLINE	1751726.4227	893138.5709		146+94.42

RIGHT OF WAY PLANS

SCALE 1" = 100'

DATE:
PROJECT NO.:
DRAWING BY:
REVISION DATES:
REVISION NOTES:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

231 SOUTH 17th STREET
LOUISVILLE, KENTUCKY 40203
(502) 589-7410
400 NORTH COURT STREET
PADUCAH, KENTUCKY 42001
(270) 443-0395
MURRAY, KENTUCKY 42071
(270) 753-2929
WWW.BFWENGINEERS.COM

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GEOMETRIC LAYOUT SHEET DESCRIPTIONS

MURRY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
42

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RIGHT OF WAY MONUMENT POINTS

STATION and OFFSET	TYPE	DESCRIPTION	Project Coordinates		
			NORTH (Y)	EAST (X)	ELEV. (Z)
KY 121 51+70.00, 35.00'Right	1A		1746370.18	890748.92	000.00
KY 121 52+00.00, 60.00'Right	1A		1746344.63	890719.39	000.00
KY 121 54+51.77 60.00' Right	1A		1746096.20	890678.54	000.00
KY 121 57+89.58, 35.00' Right	1A		1745752.65	890658.40	000.00
KY 121 57+87.07, 50.00' Right	1A		1745755.60	890643.46	000.00
KY 121 59+20.00, 50.00' Right	1A		1745616.51	890649.05	000.00
KY 121 59+20.00, 35.00' Right	1A		1745618.07	890663.97	000.00
KY 121 52+91.00, 45.00' Left	1A		1746237.80	890808.24	000.00
KY 121 53+50.00, 65.00' Left	1A		1746176.34	890818.40	000.00
KY 121 54+52.00, 60.00' Left	1A		1746076.50	890796.91	000.00
KY 121 54+52.00, 65.00' Left	1A		1746075.69	890801.85	000.00
ML 70+90.77, 58.81' Left	1A		1746008.71	890785.77	000.00
ML 73+80.86., 79.40' Left	1A		1745986.93	891072.75	000.00
River Rd. Cul De Sac 4+98.30, 14.31' Right	1A		1746053.16	891079.35	000.00
River Rd. Cul De Sac 73+48.10, 38.73' Right	1A		1746003.26	891086.45	000.00
River Rd. Cul De Sac 4+75.74, 26.39' Left	1A		1746095.70	891098.21	000.00
River Rd. Cul De Sac 5+44.29, 62.00' Left	1A		1746062.48	891167.96	000.00
ML 75+14.63, 84.23' Left	1A		1746008.91	891207.61	000.00
ML 75+16.04, 57.93' Left	1		1745950.67	891203.13	000.00
ML 82+87.59, 60.54' Left	1		1745925.26	891967.19	000.00
ML 83+87.17, 60.06' Left	1		1745925.91	892072.76	000.00
ML 92+55.27, 60.00' Left	1		1746364.71	892667.28	000.00
ML 94+31.13, 60.00' Left	1		1746531.83	892722.59	000.00
ML 104+00.00, 60.00' Left	1		1747461.82	892957.48	000.00
ML 105+00.00, 65.00' Left	1		1747560.33	892969.10	000.00
ML 105+00.00, 65.00' Left	1		1748232.13	893042.92	000.00
SYCAMORE 53+28.00, 25.00' Left	1		1748362.08	892442.11	000.00
SYCAMORE 54+00.00, 46.18' Left	1		1748379.06	892515.21	000.00
SYCAMORE 54+76.40, 50.00' Left	1		1748378.46	892586.01	000.00
SYCAMORE 55+76.37, 55.00' Left	1		1748377.67	892691.80	000.00
SYCAMORE 59+24.00, 55.00' Left	1		1748357.58	893038.85	000.00
SYCAMORE 53+28.00, 25.00' Right	1		1748247.99	893028.49	000.00
SYCAMORE 54+00.00, 46.18' Right	1		1748312.16	892439.17	000.00
SYCAMORE 54+76.48, 50.00' Right	1		1748297.17	892481.08	000.00
SYCAMORE 55+76.47, 55.00' Right	1		1748278.62	892586.01	000.00
SYCAMORE 59+20.00, 55.00' Right	1		1748267.85	892685.53	000.00
ML 111+82.75, 65.00' Left	1		1748232.13	893042.92	000.00
ML 113+24.00, 60.00' Left	1		1748434.08	893056.68	000.00
ML 113+87.10, 60.00' Left	1		1748556.92	893060.13	000.00
ML 115+09.90, 60.00' Left	1		1748556.92	893060.13	000.00
ML 121+71.15, 60.00' Left	1		1749221.82	893111.70	000.00
ML 123+64.86, 60.00' Left	1		1749413.97	893136.17	000.00

RIGHT OF WAY MONUMENT POINTS

STATION and OFFSET	TYPE	DESCRIPTION	Project Coordinates		
			NORTH (Y)	EAST (X)	ELEV. (Z)
OLD CONCORD 56+21.79, 20.00' Left	1		1750024.50	892968.29	000.00
OLD CONCORD 56+51.00, 45.00' Left	1		1750051.84	892995.32	000.00
OLD CONCORD 58+10.00, 45.00' Left	1		1750065.08	893153.79	000.00
OLD CONCORD 56+21.79, 23.58' Right	1		1749981.07	892971.92	000.00
OLD CONCORD 56+46.53, 38.31' Right	1		1749968.43	892997.62	000.00
OLD CONCORD 57+49.46, 38.31' Right	1		1749977.02	893100.38	000.00
OLD CONCORD 58+13.39, 44.00' Right	1		1749976.67	893164.56	000.00
ML 129+20.00, 60.00' Left	1		1749961.99	893183.03	000.00
ML 130+57.00, 60.00' Left	1		1750097.69	893187.61	000.00
ML 136+17.00, 60.00' Left	1		1750652.43	893177.51	000.00
ML 136+20.26, 89.38' Left	1		1750653.87	893147.99	000.00
ML 139+00.97, 53.36' Left	1		1750936.09	893117.13	000.00
ML 139+08.07, 97.06' Left	1		1750933.59	893161.32	000.00
ML 140+97.31, 63.27' Left	1		1750936.09	893117.13	000.00
ML 141+35.62, 69.19' Left	1		1751162.53	893117.83	000.00
ML 143+42.98, 59.02' Left	1		1751337.50	893101.70	000.00
KY 94 12+96.43, 30.00' Left	1		1751462.57	892869.65	000.00
KY 94 13+36.12, 15.00' Left	1		1751475.27	892910.12	000.00
KY 94 15+00.00, 40.00' Left	1		1751477.68	893071.02	000.00
KY 94 13+01.75, 35.00' Right	1		1751417.42	892873.93	000.00
KY 94 15+00.67, 48.53' Right	1		1751399.35	893076.67	000.00
ML 144+84.42, 25.00' Left	1		1751514.16	893108.89	000.00
ML 145+85.35, 25.00' Left	1		1751619.16	893106.71	000.00
ML 146+89.42, 25.00' Left	1		1751723.02	893113.30	000.00
ML 146+09.28, 11.74' Left	1		1751741.99	893127.80	000.00
ML 70+91.12, 65.00' Right	1		1745886.54	890765.69	000.00
ML 73+46.56, 60.00' Right	1		1745852.95	891021.24	000.00
ML 74+45.28, 48.00' Right	1		1745852.86	891121.58	000.00
ML 74+97.65, 57.88' Right	1		1745837.35	891173.04	000.00
River Rd. 50+32.96, 69.39' Left	1		1745813.30	891308.16	000.00
River Rd. 52+26.75, 36.42' Left	1		1745663.42	891307.75	000.00
River Rd. 52+80.00, 17.79' Left	1		1745607.94	891291.49	000.00
River Rd. 50+61.46, 70.96' Right	1		174582.45	891188.39	000.00
River Rd. 51+00.50, 41.04' Right	1		1745784.04	891221.46	000.00
River Rd. 51+95.41, 51.49' Right	1		1745689.61	891218.21	000.00
River Rd. 52+55.78, 26.66' Right	1		1745631.41	891246.11	000.00
ML 76+70.64, 55.00' Right	1		1745824.69	891347.23	000.00
ML 81+77.44, 55.00' Right	1		1745808.51	891858.33	000.00
ML 82+52.84, 56.80' Right	1		1745807.54	891933.74	000.00

RIGHT OF WAY PLANS

SCALE 1" = 100'

DATE:
PROJECT NO.:
DRAWING BY:
REVISION DATES:
REVISION NOTES:

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R/W COORDINATE LAYOUT DESCRIPTIONS

MURRY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
43

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RIGHT OF WAY MONUMENT POINTS

STATION and OFFSET	TYPE	DESCRIPTION	Project Coordinates		
			NORTH (Y)	EAST (X)	ELEV. (Z)
ML 83+87.17, 60.00' Right	1		1745805.83	892068.10	000.00
ML 92+55.27, 60.00' Right	1		1746327.01	892781.21	000.00
ML 94+31.31, 60.00' Right	1		1746494.13	892836.51	000.00
ML 107+50.00, 60.00' Right	1		1747790.07	893144.72	000.00
ML 108+50.00, 65.00' Right	1		1747889.75	893144.72	000.00
ML 113+87.10, 65.00' Right	1		1748430.57	893181.63	000.00
ML 115+09.90, 65.00' Right	1		1748553.41	893185.08	000.00
ML 121+71.15, 65.00' Right	1		1749206.03	893235.70	000.00
ML 123+64.86, 65.00' Right	1		1749398.18	893260.17	000.00
ML 129+00.00, 65.00' Right	1		1749936.33	893306.10	000.00
OLD CONCORD 58+13.39, 45.00' Left	1		1750080.06	893333.15	000.00
OLD CONCORD 58+13.39, 45.00' Left	1		1750093.38	893492.59	000.00
OLD CONCORD 64+09.00, 35.00' Left	1		1750108.13	893750.00	000.00
OLD CONCORD 64+28.00, 25.00' Left	1		1750100.44	893770.05	000.00
OLD CONCORD 60+00.00, 58.00' Right	1		1749978.25	893351.69	000.00
OLD CONCORD 64+01.36, 38.00' Right	1		1750035.63	893758.60	000.00
OLD CONCORD 64+09.00, 38.00' Right	1		1750050.78	893775.91	000.00
ML 143+25.25, 60.00' Right	1		1751368.93	893217.21	000.00
KY 94 16+50.00, 70.00' Right	1		1751394.43	893231.93	000.00
KY 94 18+00.49, 70.00' Right	1		1751446.19	893381.90	000.00
KY 94 16+41.00, 50.00' Left	1		1751499.25	893187.52	000.00
ML 144+84.42, 35.00' Right	1		1751520.44	893168.56	000.00
ML 145+85.35, 35.00' Right	1		1751615.36	893166.59	000.00
ML 147+02.00, 25.00' Right	1		1751732.41	893164.00	000.00

RIGHT OF WAY PLANS SCALE 1" = 100'

PROJECT NO. :
DRAWING BY :
REVISION DATES :
REVISION NOTES :
DATE:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
231 GRASLEY DRIVE • WINCHESTER, KENTUCKY 40391 • (859) 745-3100
300 SOUTH 17th STREET • PADUCAH, KENTUCKY 42001 • (270) 443-0395
400 NORTH COURT STREET • MADISONVILLE, KENTUCKY 42431 • (270) 821-0537
1400 MAGNOLIA AVENUE • MURRAY, KENTUCKY 42071 • (270) 753-1616
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R/W COORDINATE LAYOUT DESCRIPTIONS

MURRY BUSINESS LOOP
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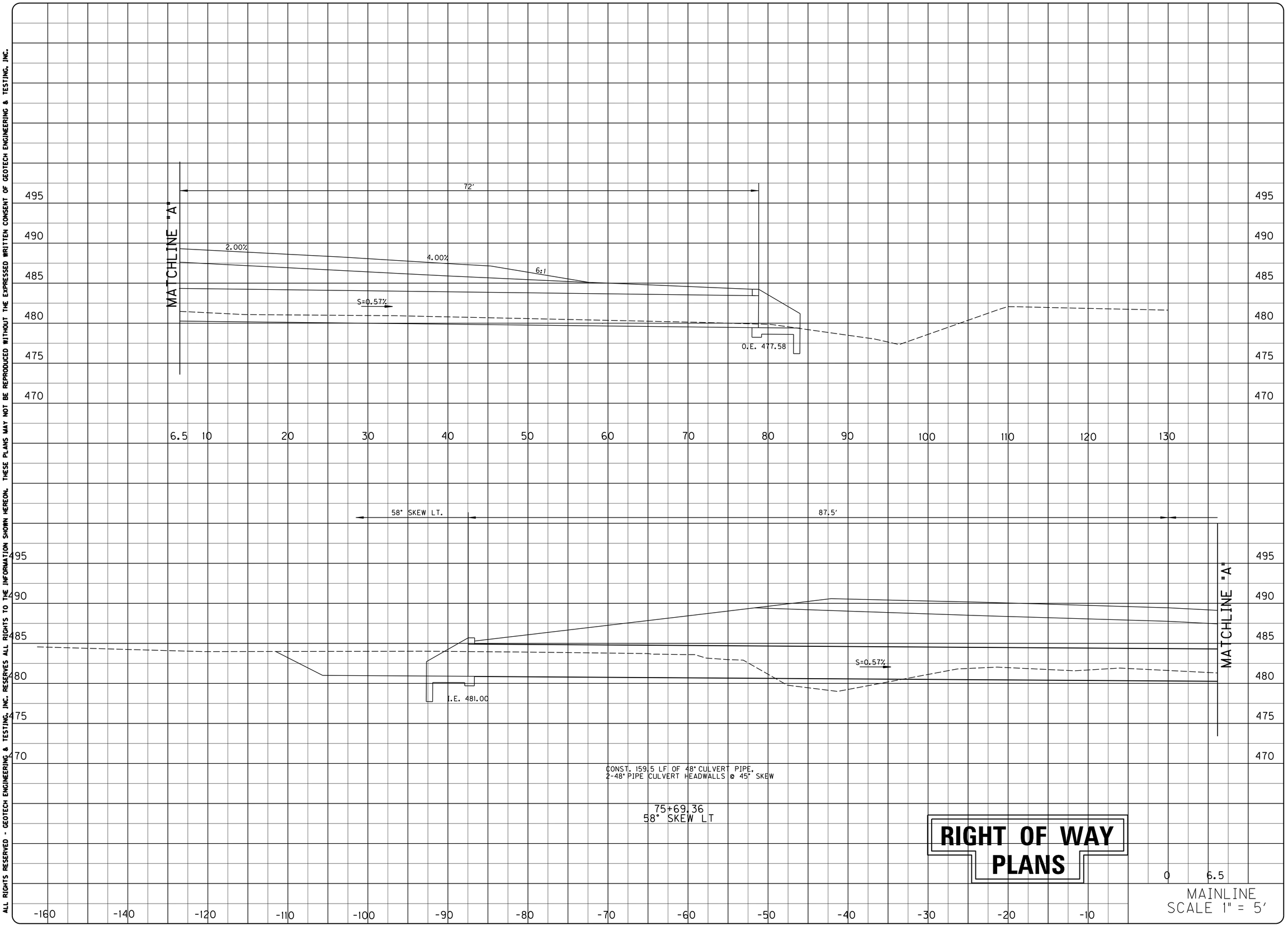
MURRAY, KY 42071

SHEET
44



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PROJECT NO.: 05093 DATE: 4/2009
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REVISION NOTES:

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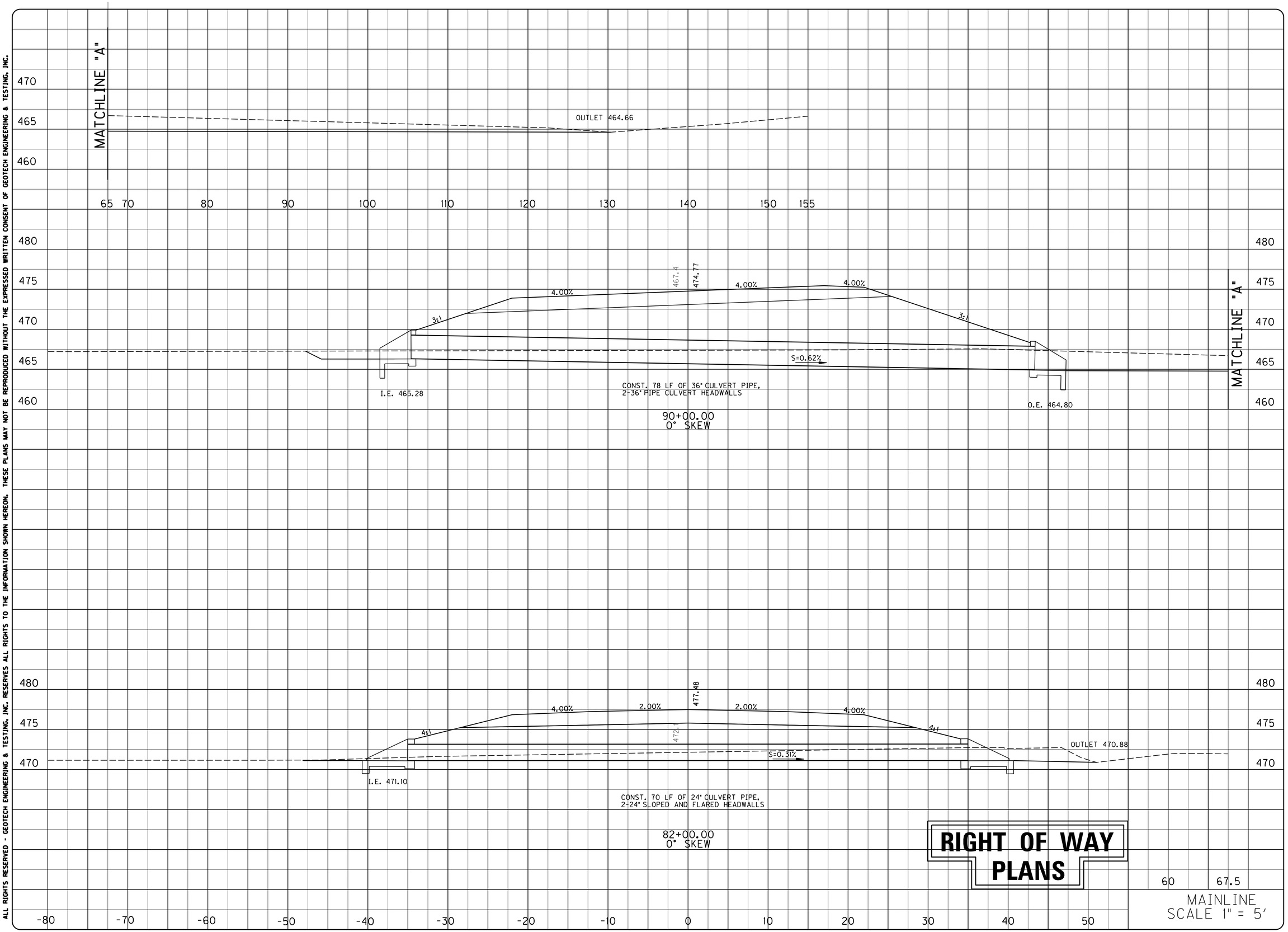
SHEET
45



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PROJECT NO.: 05093 DATE: 4/2009
DRAWING BY: MRL
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REVISION NOTES:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DIXIE DRIVE
MURRAY, KENTUCKY 42071
PHONE: 270.753.7307
500 SOUTH 17th STREET
PADUCAH, KENTUCKY 42003
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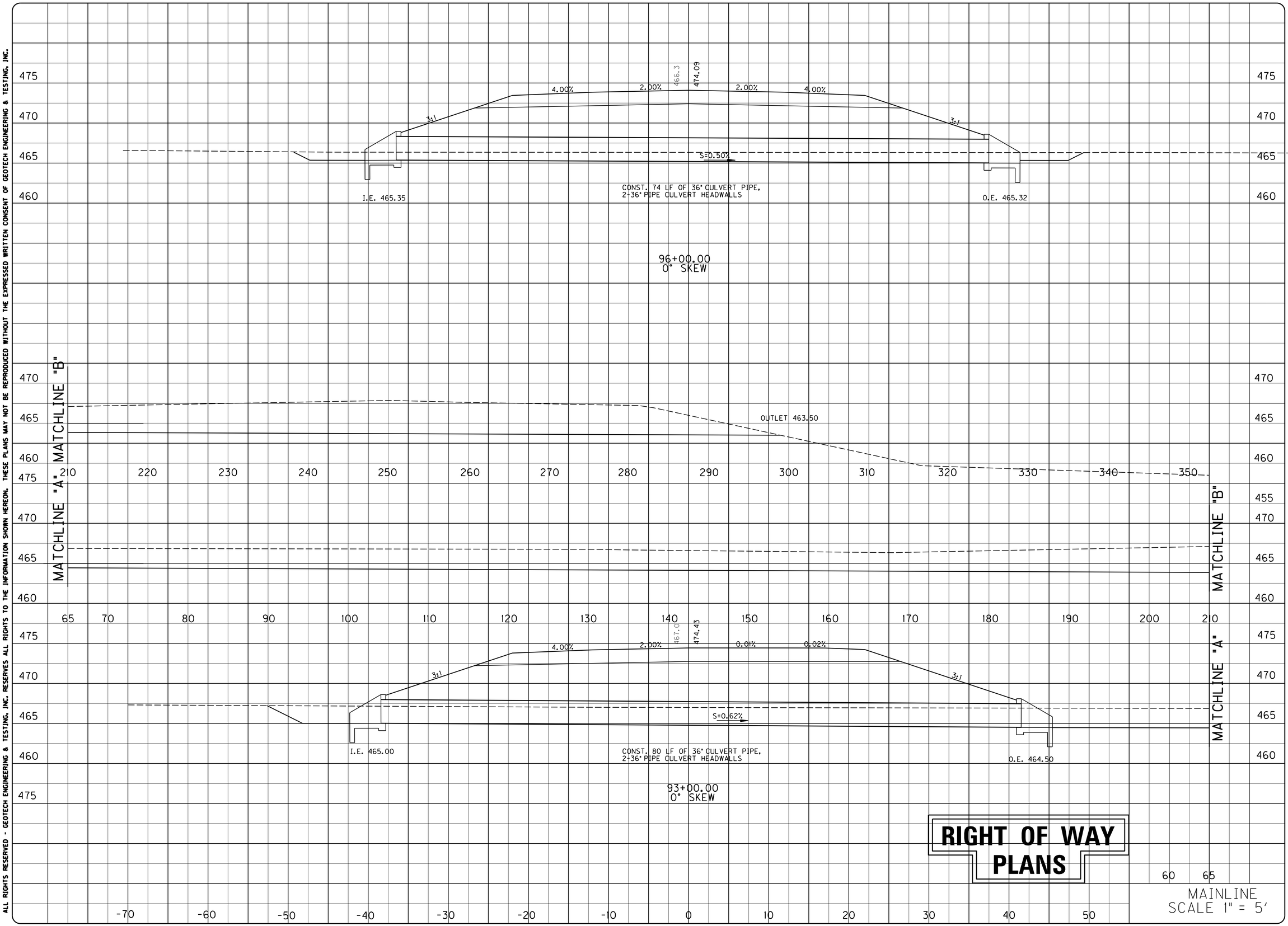
SHEET
46



RIGHT OF WAY PLANS

PROJECT NO.: 05093
DATE: 4/2009
DRAWING BY: MRL
REVISION DATES:
REVISION NOTES:

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47

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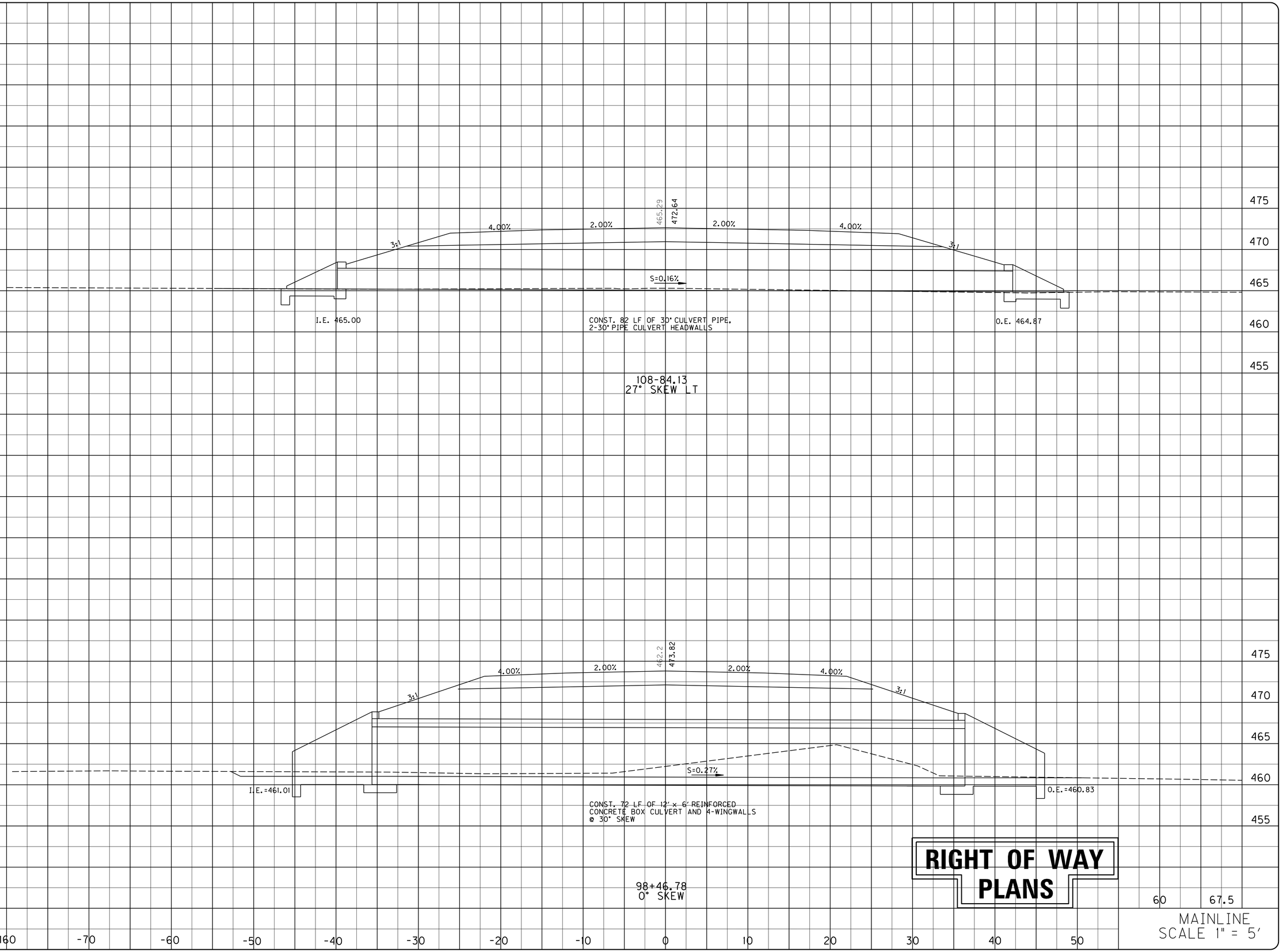

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REVISION DATES:
REVISION NOTES:

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PHONE: (270) 753-7307
500 SOUTH 17th STREET
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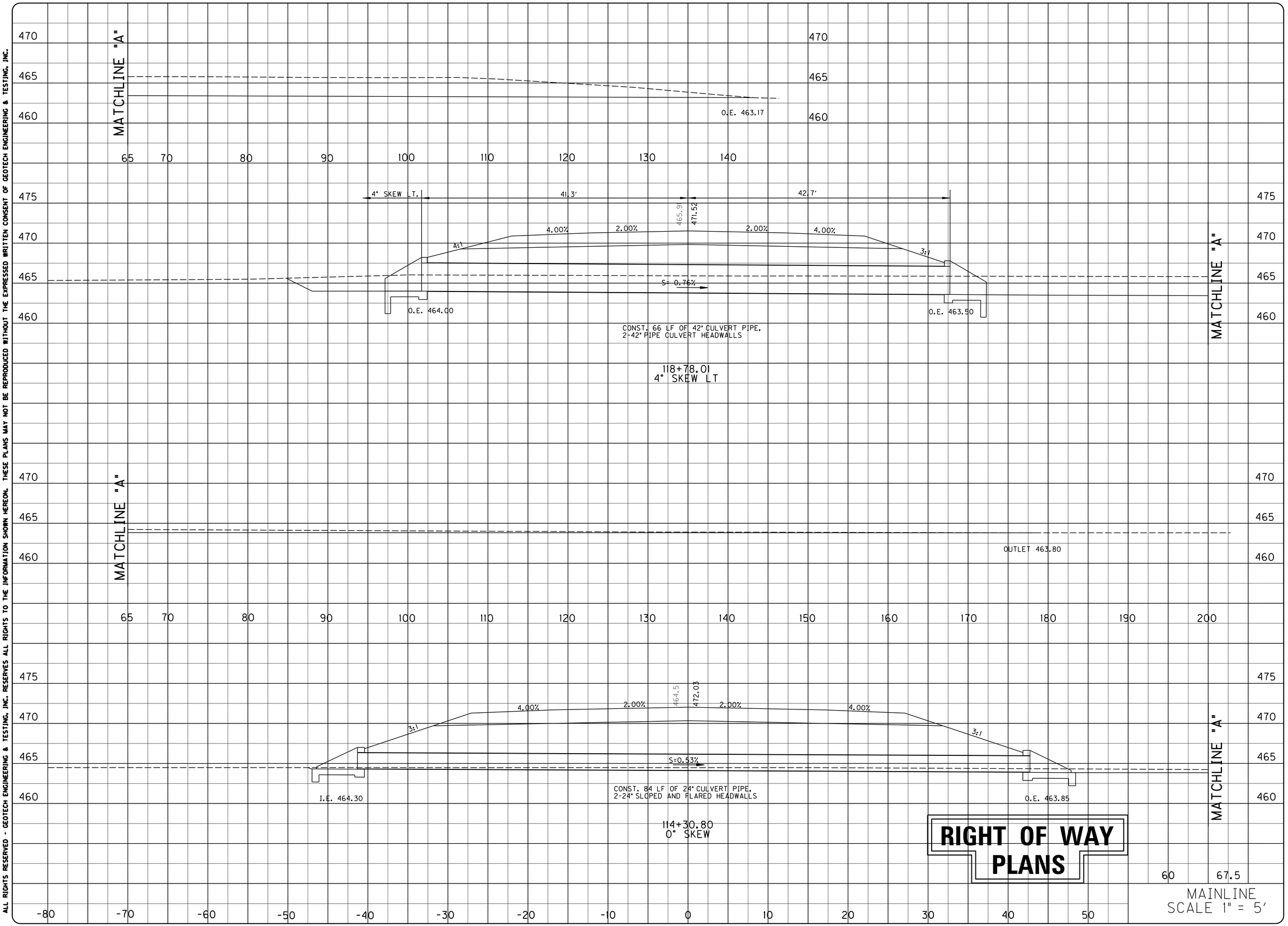
SHEET
48



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1215 DUGAS DRIVE
MURRAY, KENTUCKY 42071
PHONE: 270.753.7307
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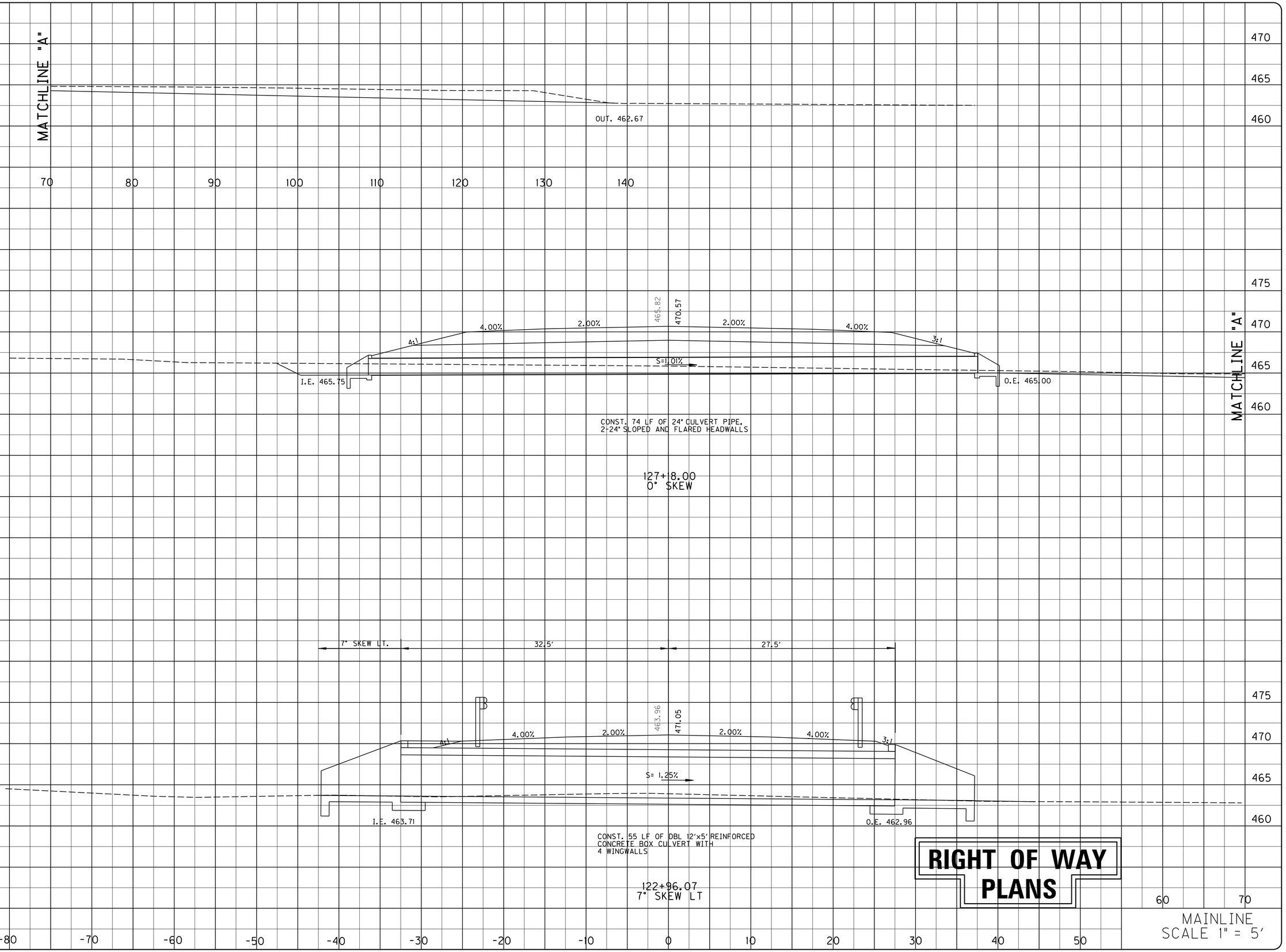
SHEET
49



RIGHT OF WAY PLANS

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PROJECT NO.: 05093 DATE: 4/2009
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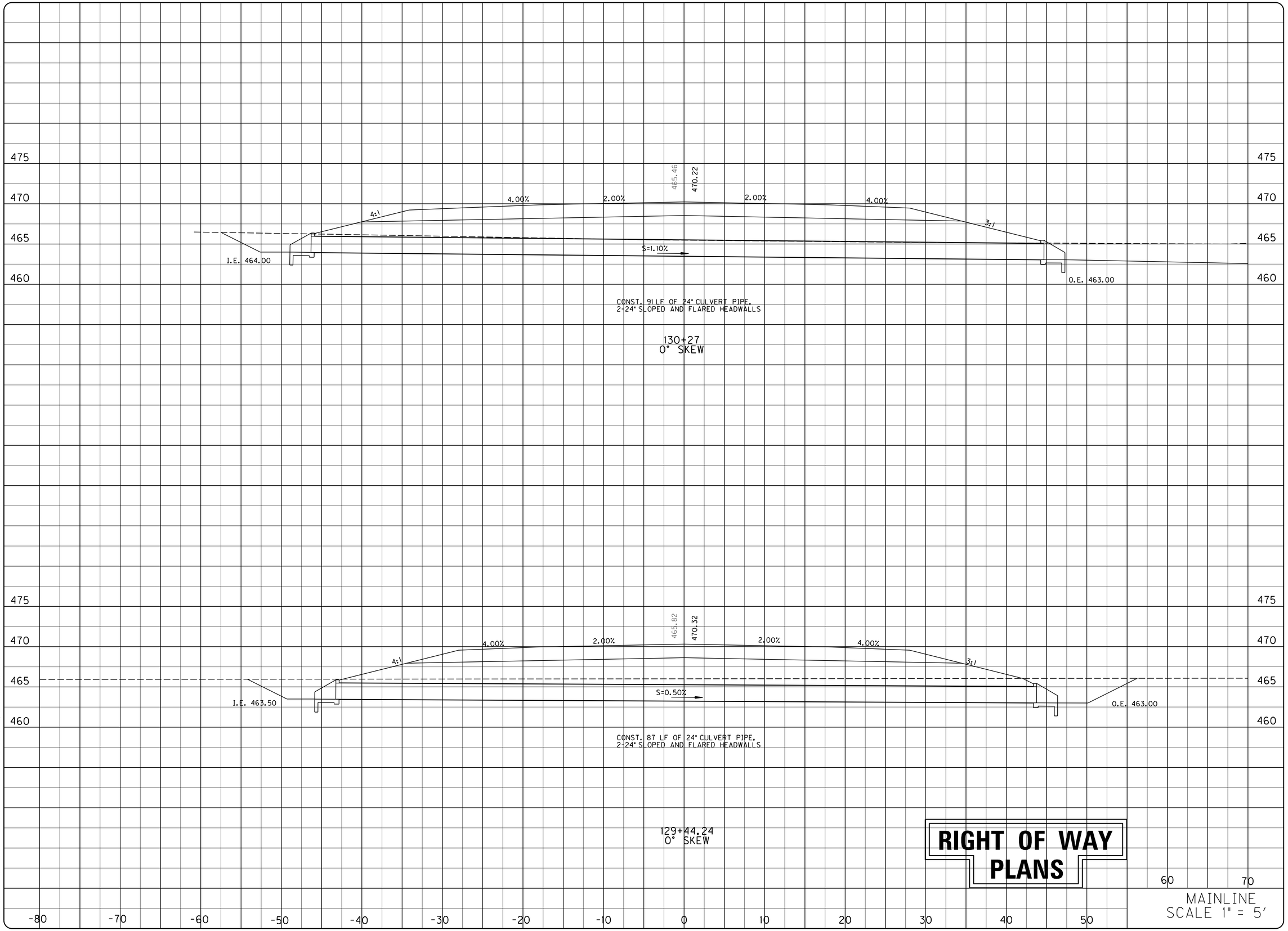
SHEET
50



RIGHT OF WAY PLANS

MAINLINE
SCALE 1" = 5'

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PROJECT NO.: 05093 DATE: 4/2009
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REVISION DATES:
REVISION NOTES:

BACON | FARMER | WORKMAN
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1215 DUGGAN DRIVE
MURRAY, KENTUCKY 42071
PHONE: 270.753.7307
500 SOUTH 17th STREET
PADUCAH, KENTUCKY 42003
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MAINLINE - PIPE SECTIONS

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CITY OF MURRAY
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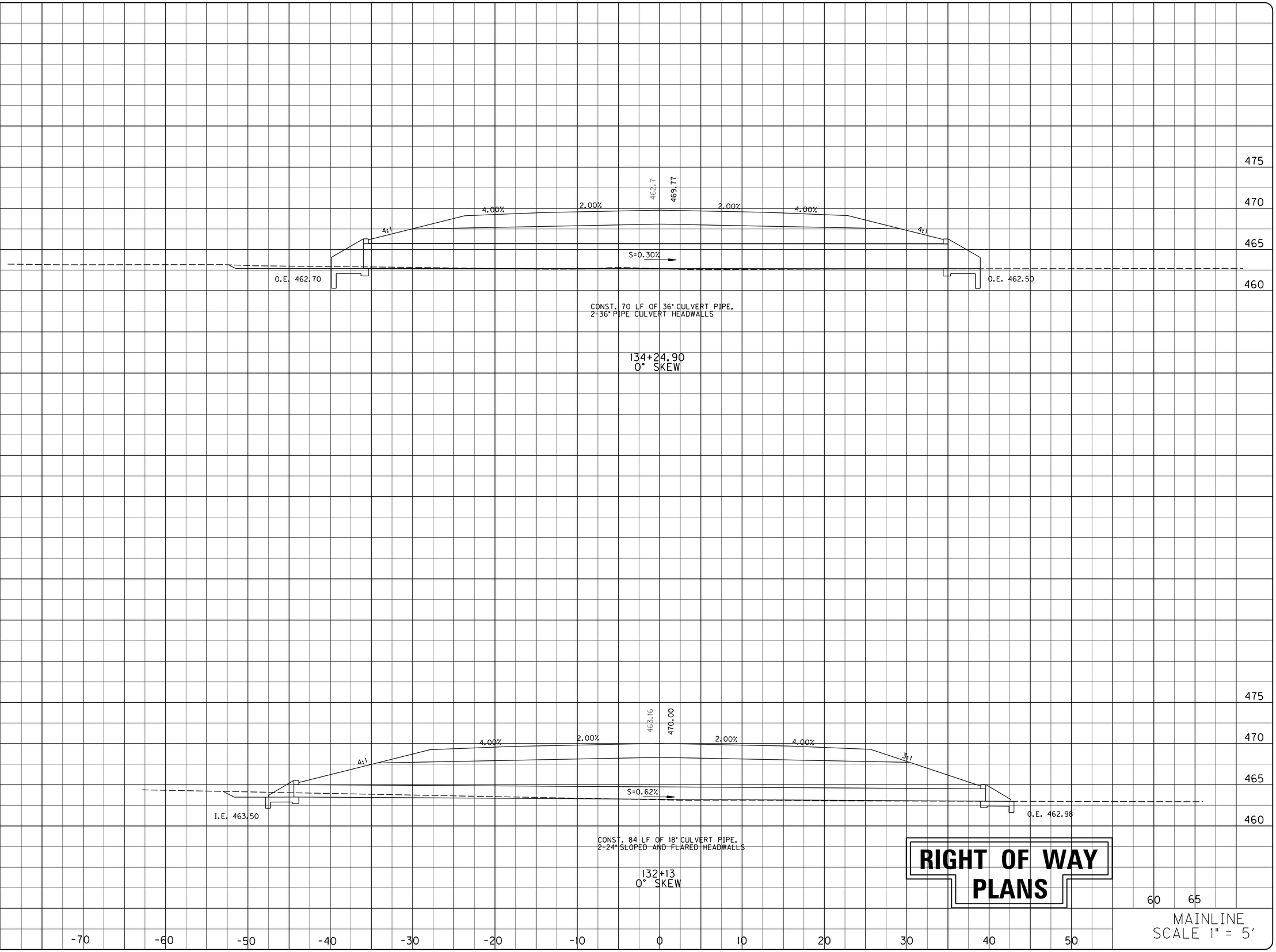
SHEET
51



RIGHT OF WAY PLANS

MAINLINE
SCALE 1" = 5'

PROJECT NO.: 05093 DATE: 4/2009
DRAWING BY: MRL
REVISION DATES:
REVISION NOTES:

BACON | FARMER | WORKMAN
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MAINLINE - PIPE SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
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MURRAY, KY 42071

SHEET
52

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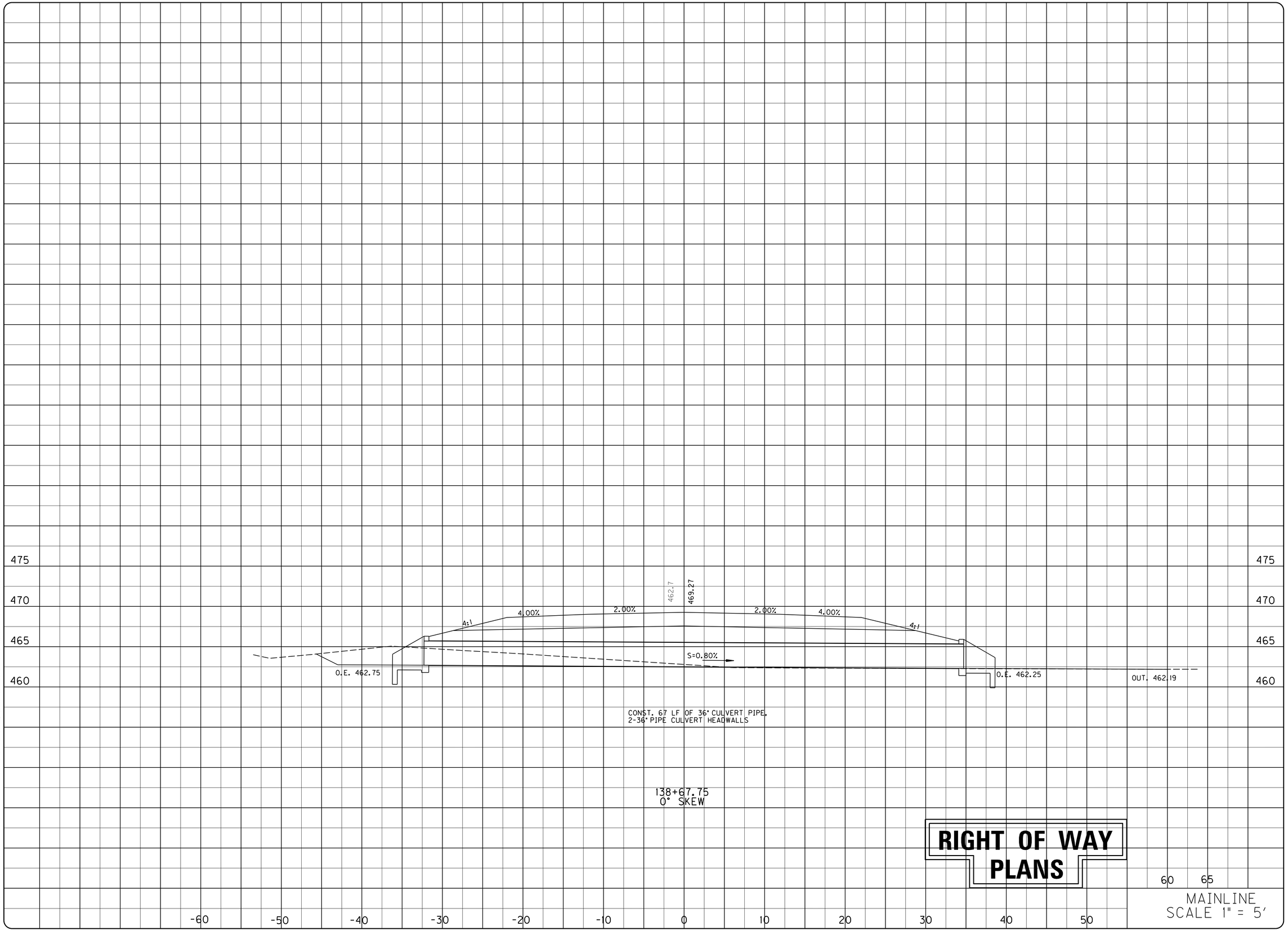

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PROJECT NO.: 05093 DATE: 4/2009
DRAWING BY: MRL
REVISION DATES:
REVISION NOTES:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DUCAS DRIVE
MURRAY, KENTUCKY 42071
PHONE: 270.753.7307
500 SOUTH 17th STREET
PADUCAH, KENTUCKY 42003
PHONE: 270.443.1995
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MAINLINE - PIPE SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
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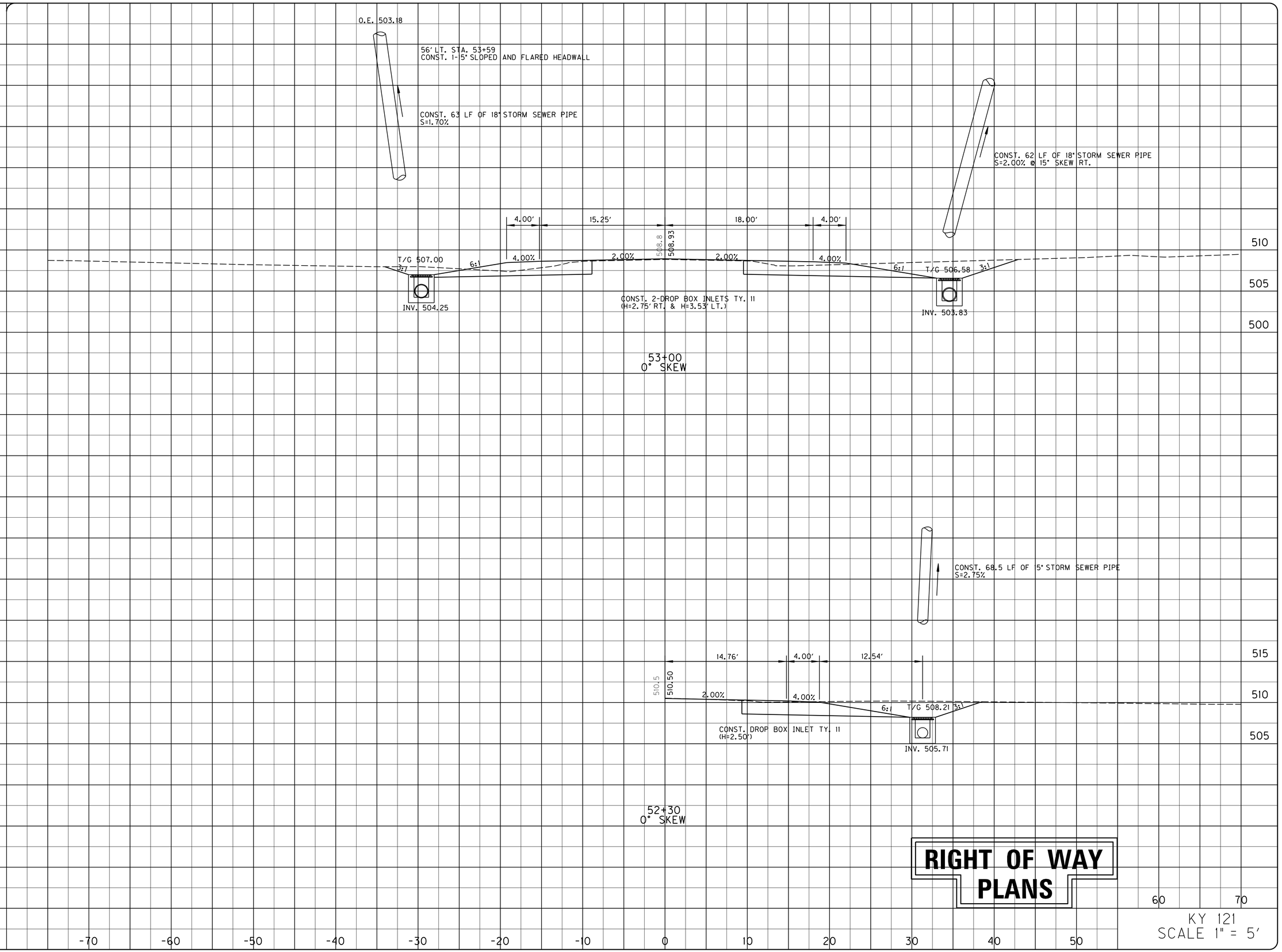
MURRAY, KY 42071

SHEET
53



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PROJECT NO.: 05093 DATE: 4/2009
DRAWING BY: MRL
REVISION DATES:
REVISION NOTES:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DILIGAD DRIVE
MURRAY, KENTUCKY 42071
PHONE: 270.753.7307
500 SOUTH 17th STREET
PADUCAH, KENTUCKY 42003
PHONE: 270.443.1995
403 NORTH COURT STREET
MARION, ILLINOIS 62959
PHONE: 618.997.3790
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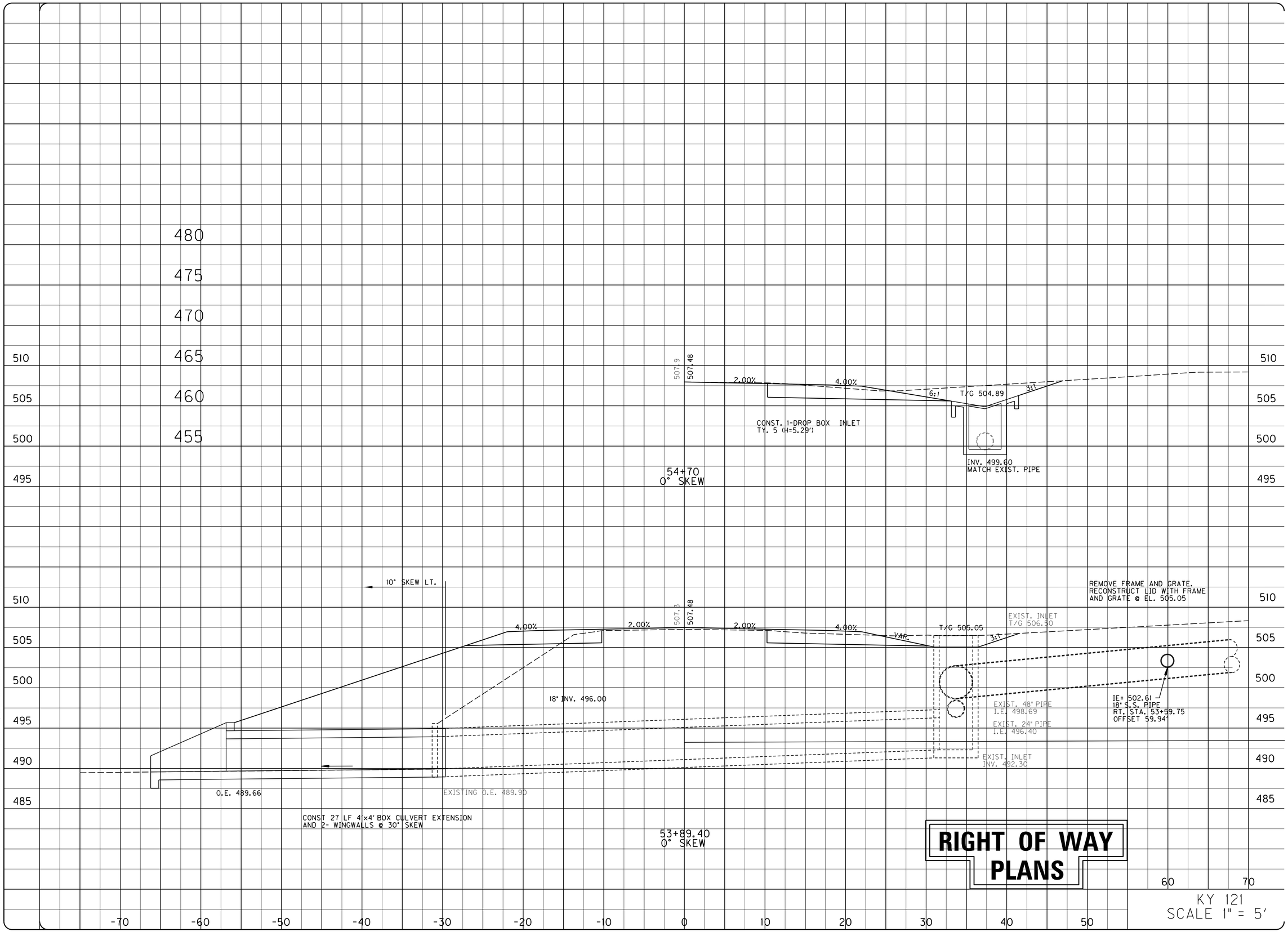
KY. 121 - PIPE SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
54



PROJECT NO.: 05093 DATE: 4/2009
DRAWING BY: MRL
REVISION DATES:
REVISION NOTES:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

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KY. 121 - PIPE SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
55

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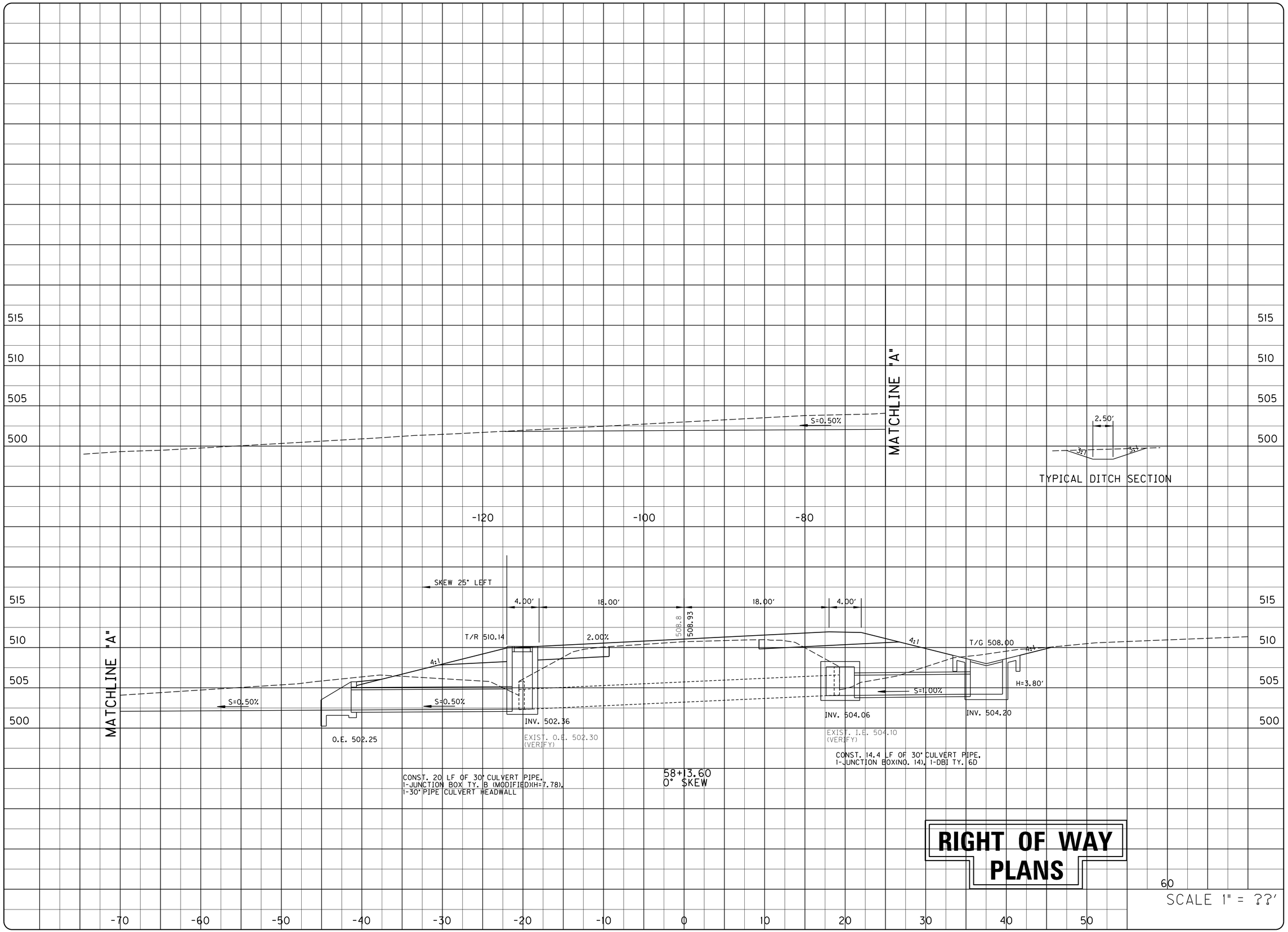

RIGHT OF WAY PLANS

DATE:
PROJECT NO.:
DRAWING BY:
REVISION DATES:
REVISION NOTES:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1151 DELIGAD DRIVE, SUITE 201, BOWLING GREEN, KY 42103 • PHONE: (270) 843-3687
400 SOUTH 7TH STREET, LOUISVILLE, KY 40202 • PHONE: (502) 587-3939
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KY. 121 - PIPE SECTIONS

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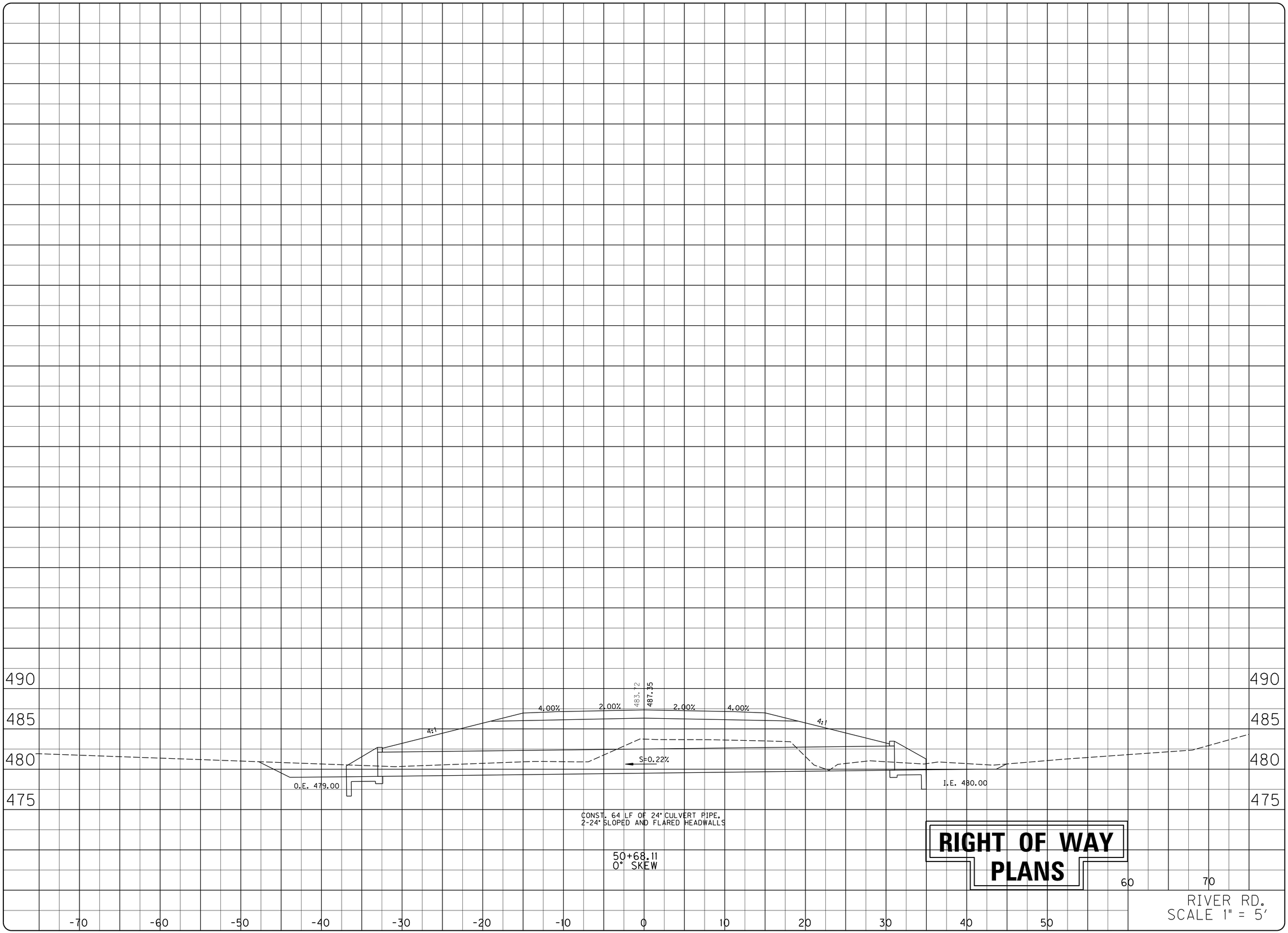
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
56



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PROJECT NO.: 05093 DATE: 4/2009
DRAWING BY: MRL
REVISION DATES:
REVISION NOTES:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DUCAS DRIVE
MURRAY, KENTUCKY 42071
PHONE: 270.753.7307
500 SOUTH 17th STREET
PADUCAH, KENTUCKY 42003
PHONE: 270.443.1995
403 NORTH COURT STREET
MARION, ILLINOIS 62959
PHONE: 618.997.3190
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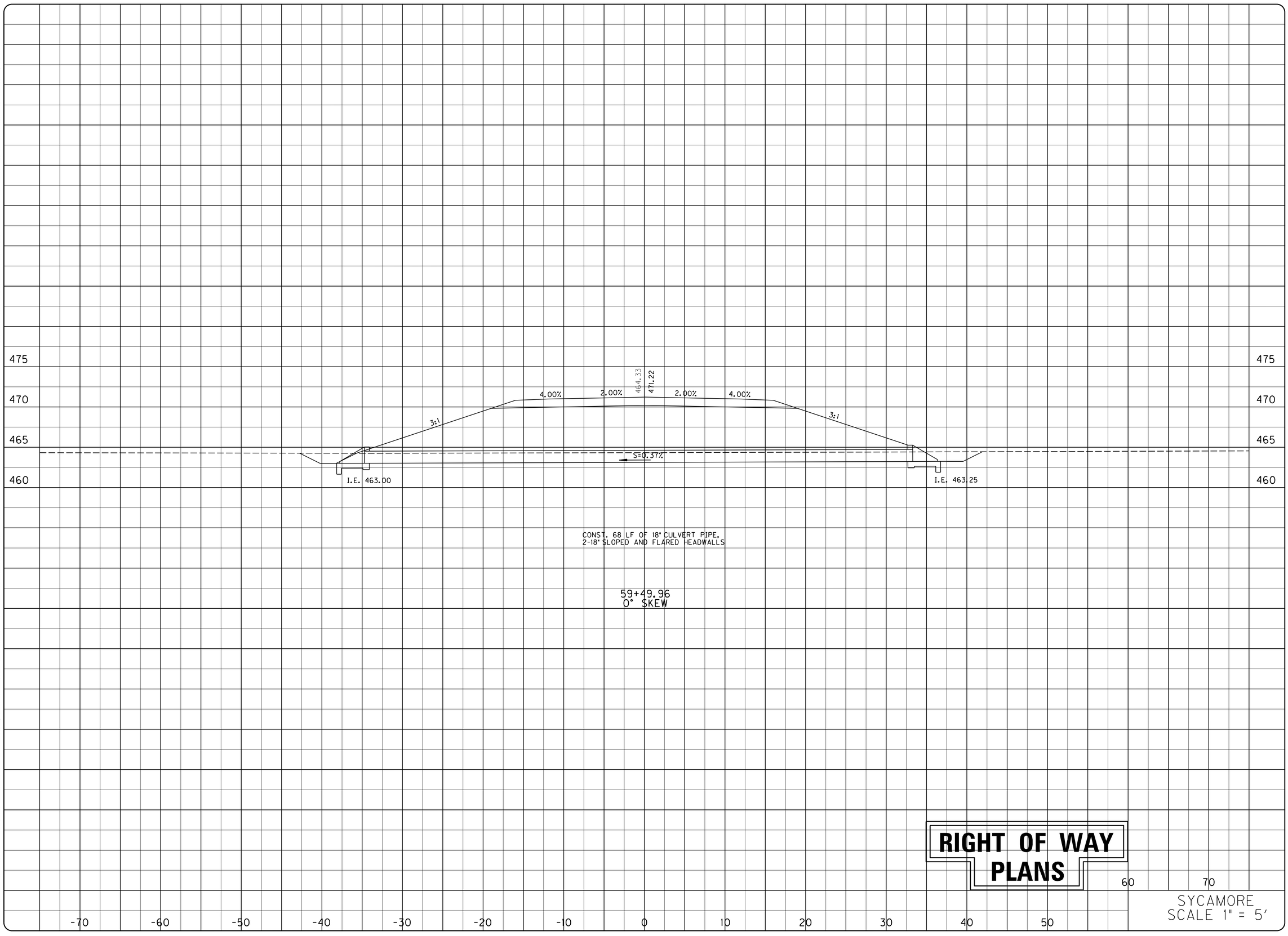
RIVER RD. - PIPE SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
57



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PROJECT NO.: 05093 DATE: 4/2009
DRAWING BY: MRL
REVISION DATES:
REVISION NOTES:

BACON | FARMER | WORKMAN
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BFW
1215 DUGGAN DRIVE
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PHONE: +270.753.7307
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MARION, ILLINOIS 62959
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SYCAMORE - PIPE SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
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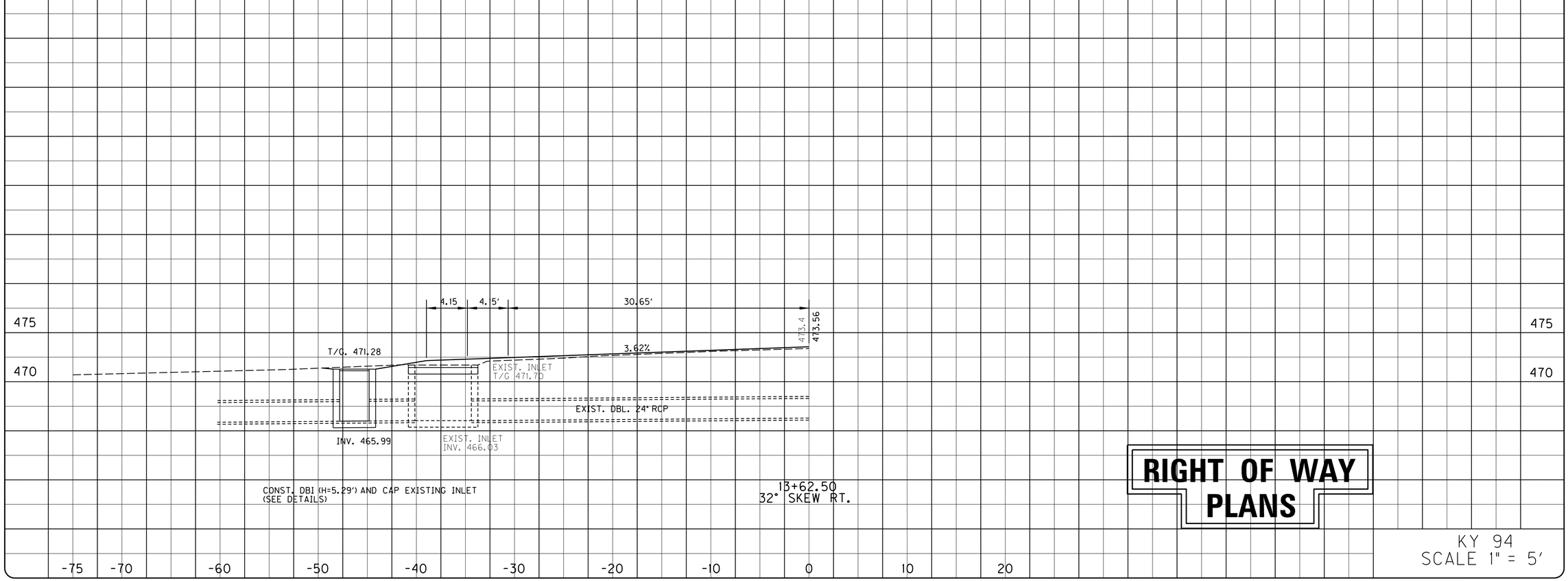
MURRAY, KY 42071

SHEET
58



RIGHT OF WAY PLANS

KY 94
SCALE 1" = 5'

PROJECT NO.: 05093 DATE: 4/2009
DRAWING BY: MRL
REVISION DATES:
REVISION NOTES:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

1215 DIXIE DRIVE
MURRAY, KENTUCKY 42071
PHONE: 270.753.7307

500 SOUTH 17th STREET
PADUCAH, KENTUCKY 42003
PHONE: 270.443.1995

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KY. 94 - PIPE SECTIONS

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MURRAY, KY 42071

SHEET
59

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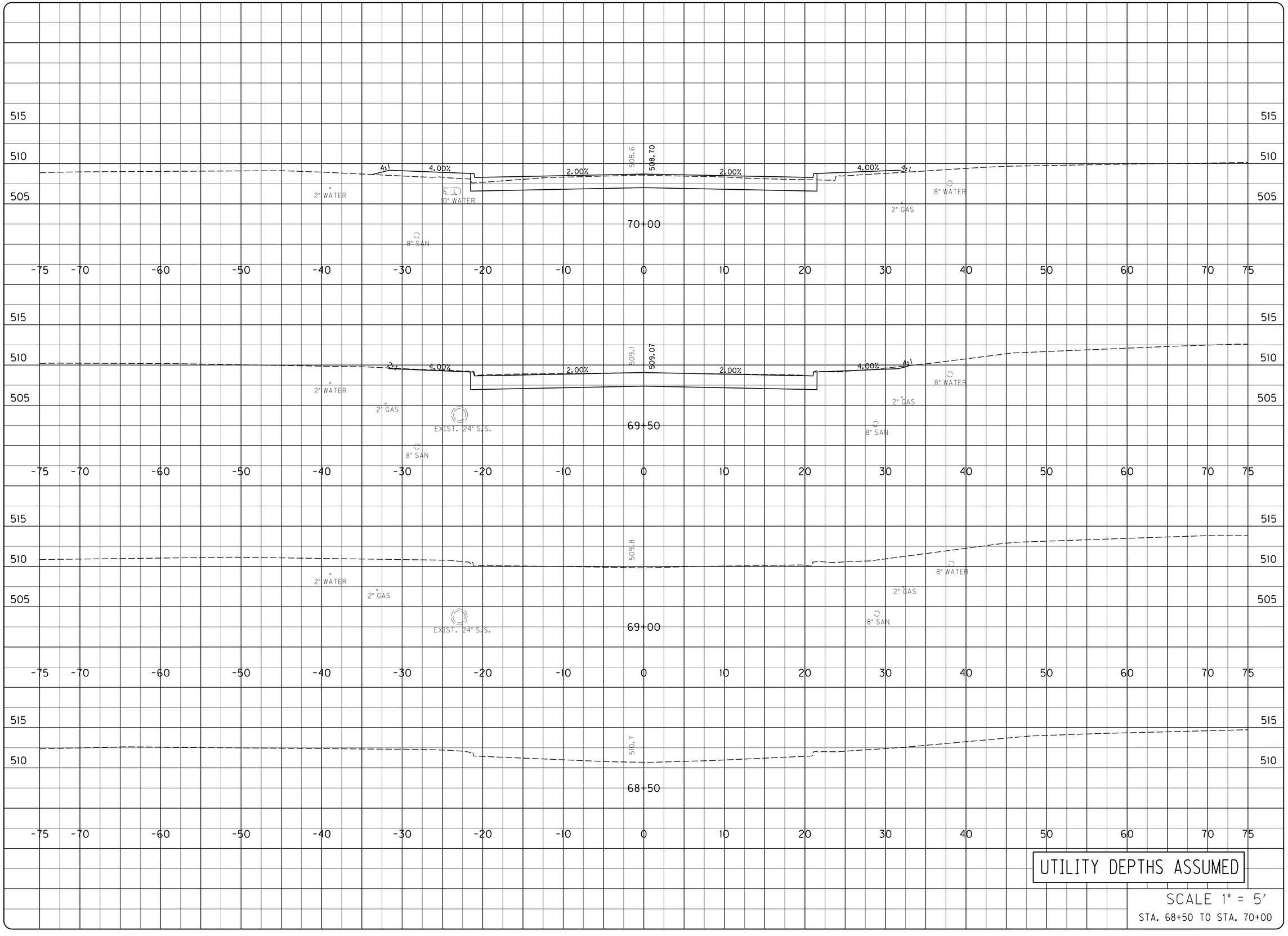

UTILITY DEPTHS ASSUMED

SCALE 1" = 5'

STA. 68+50 TO STA. 70+00

PROJECT NO.: 05093

DATE:

DRAWING BY:

REVISION DATES:

REVISION NOTES:

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MAINLINE - CROSS SECTIONS

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MURRAY, KY 42071

SHEET
X1

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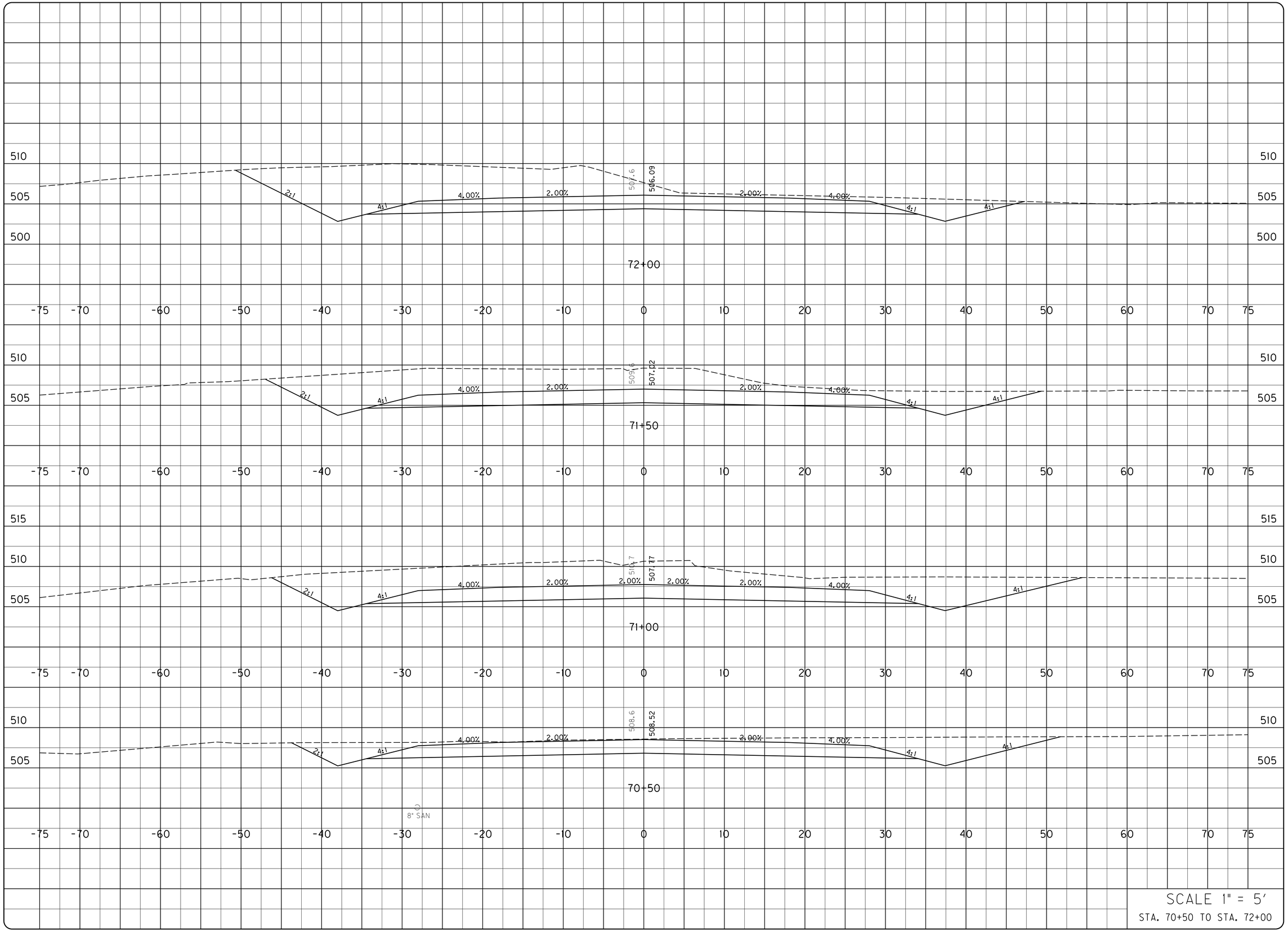

SCALE 1" = 5'

STA. 70+50 TO STA. 72+00

PROJECT NO.: 05093

DATE:

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REVISION NOTES:

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1215 DIAGONAL DRIVE
MURRAY, KENTUCKY 42071
PHONE - 270.753.7307

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PADUCAH, KENTUCKY 42003
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MAINLINE - CROSS SECTIONS

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SHEET
X2

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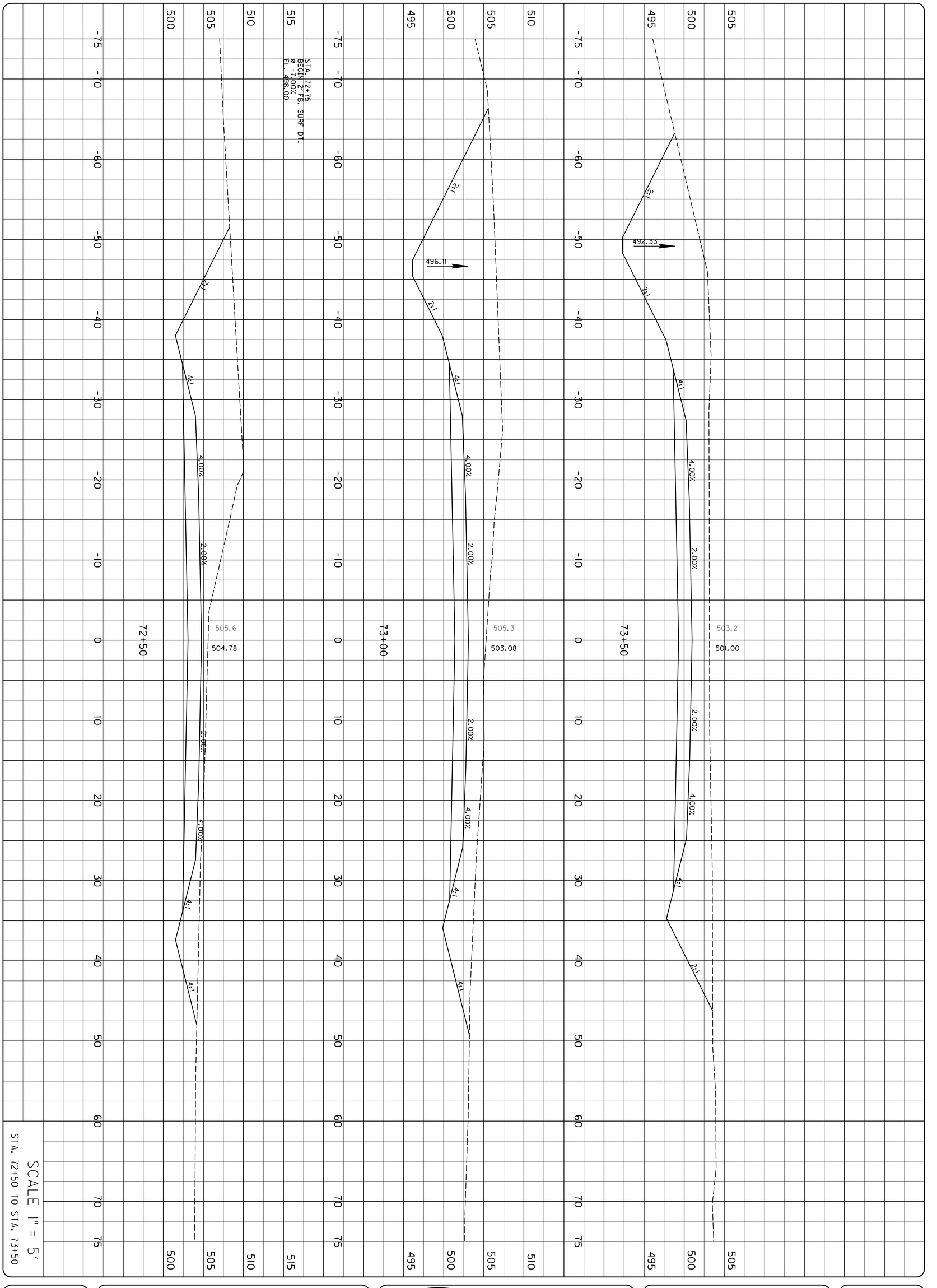

SHEET
X3

MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

BFW
BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DILQUID DRIVE
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PHONE - 270.753.7307
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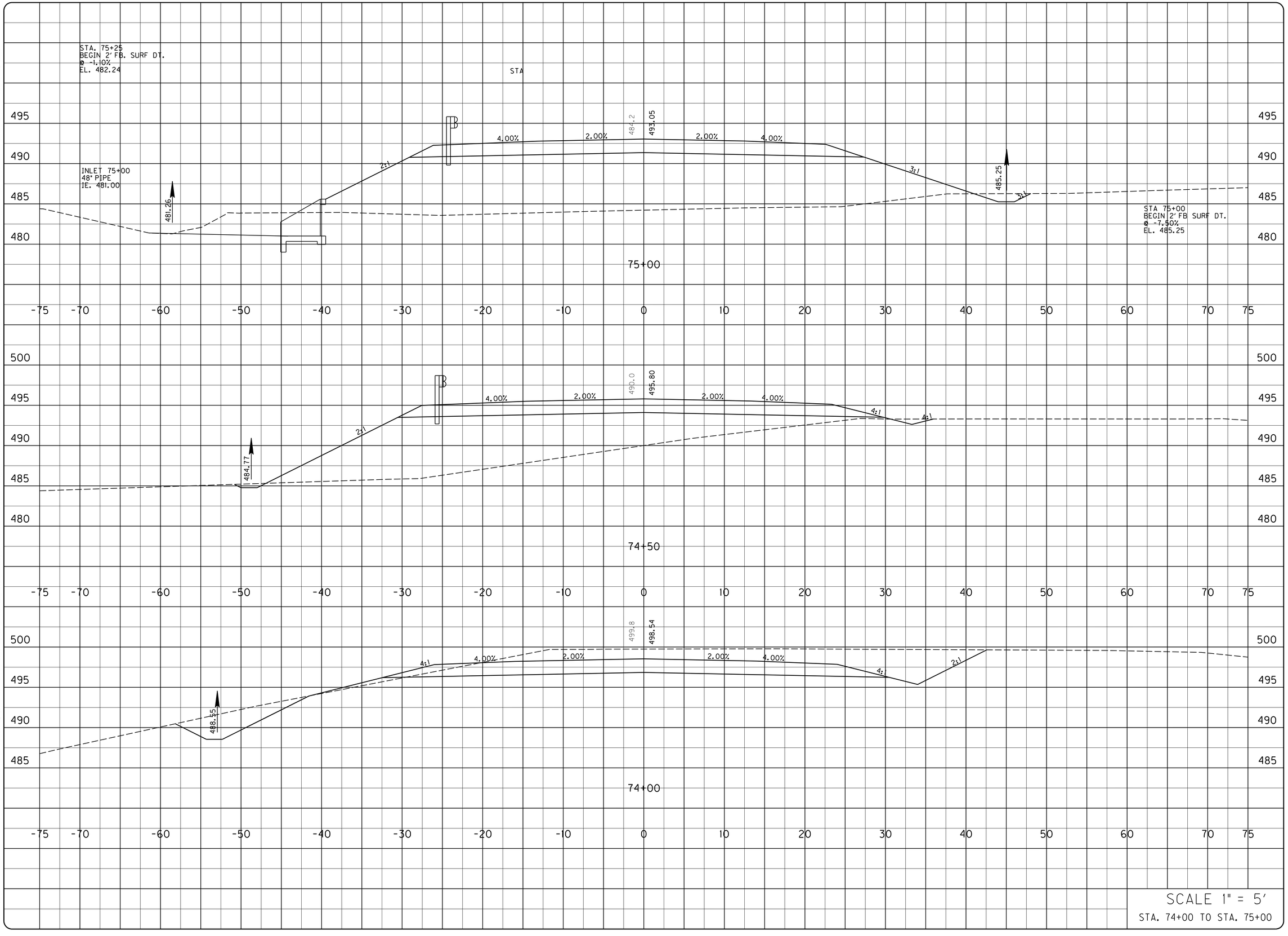
PROJECT NO. : 05093 DATE :
DRAWING BY :
REVISION DATES :
REVISION NOTES :



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PROJECT NO.: 05093
DATE:
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REVISION NOTES:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 BLUEGRASS DRIVE
MURRAY, KENTUCKY 42071
PHONE - 270.753.7307
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MAINLINE - CROSS SECTIONS

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SHEET
X4

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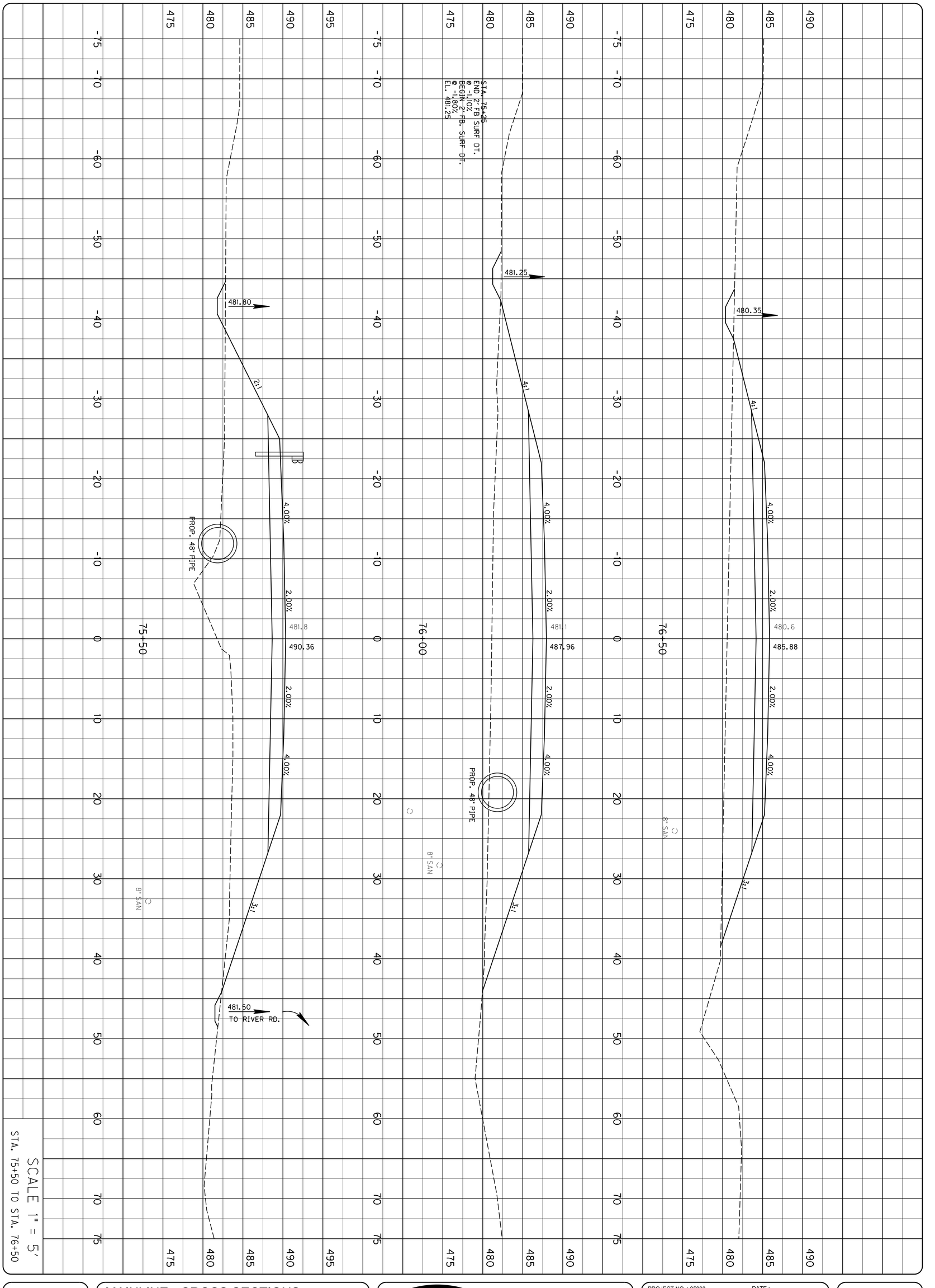

SHEET
X5

MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

BFW
BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DILGUID DRIVE
MURRAY, KENTUCKY 42071
PHONE: (270) 753-7307
500 SOUTH 17th STREET
PADUCAH, KENTUCKY 42003
PHONE: (270) 443-1395
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PHONE: (618) 997-3190
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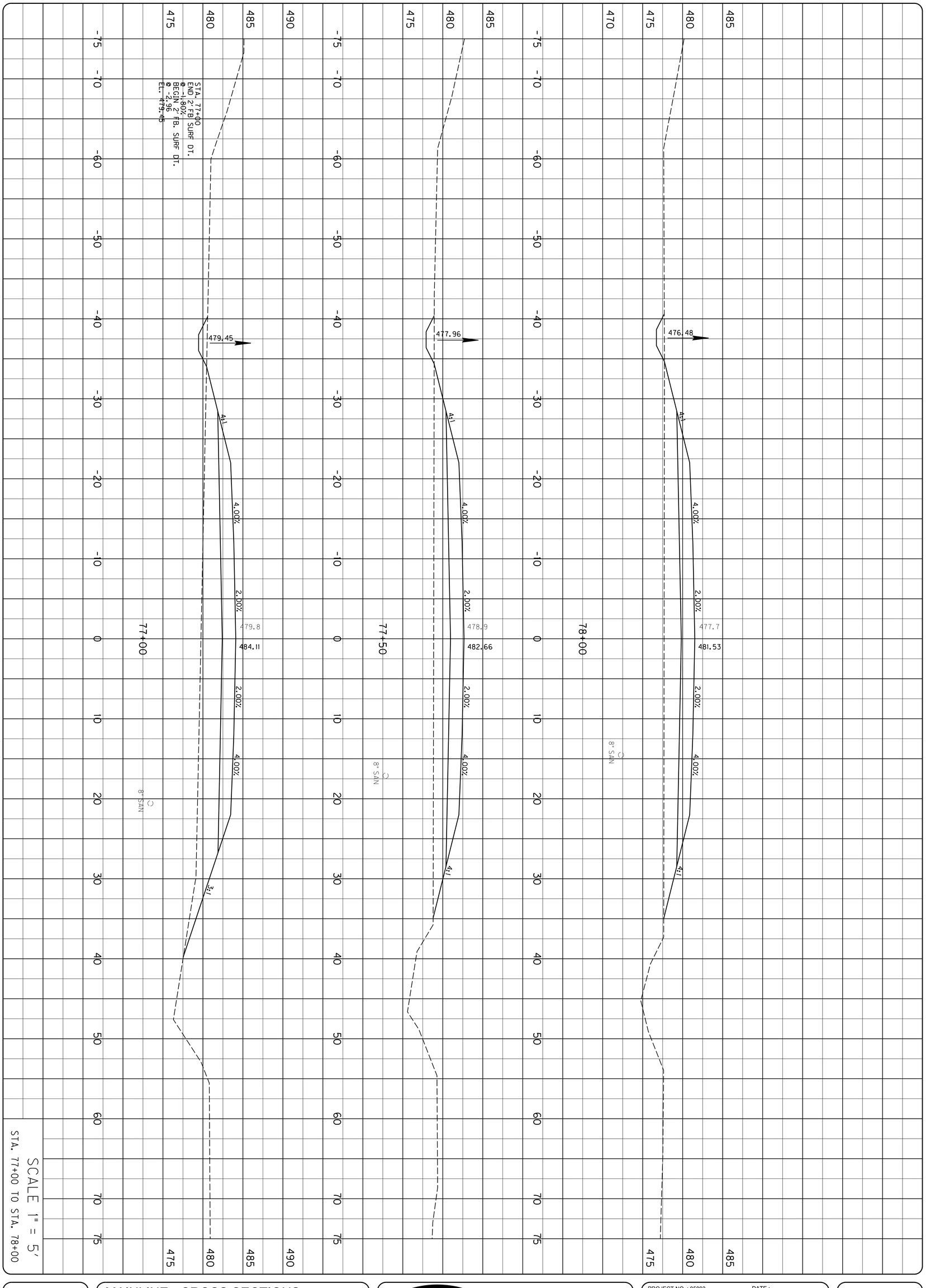

SHEET 6X

MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

BFW
BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DILGUID DRIVE, MURRAY, KENTUCKY 42071, PHONE - 270.753.7307
500 SOUTH 17th STREET, PADUCAH, KENTUCKY 42003, PHONE - 270.443.1395
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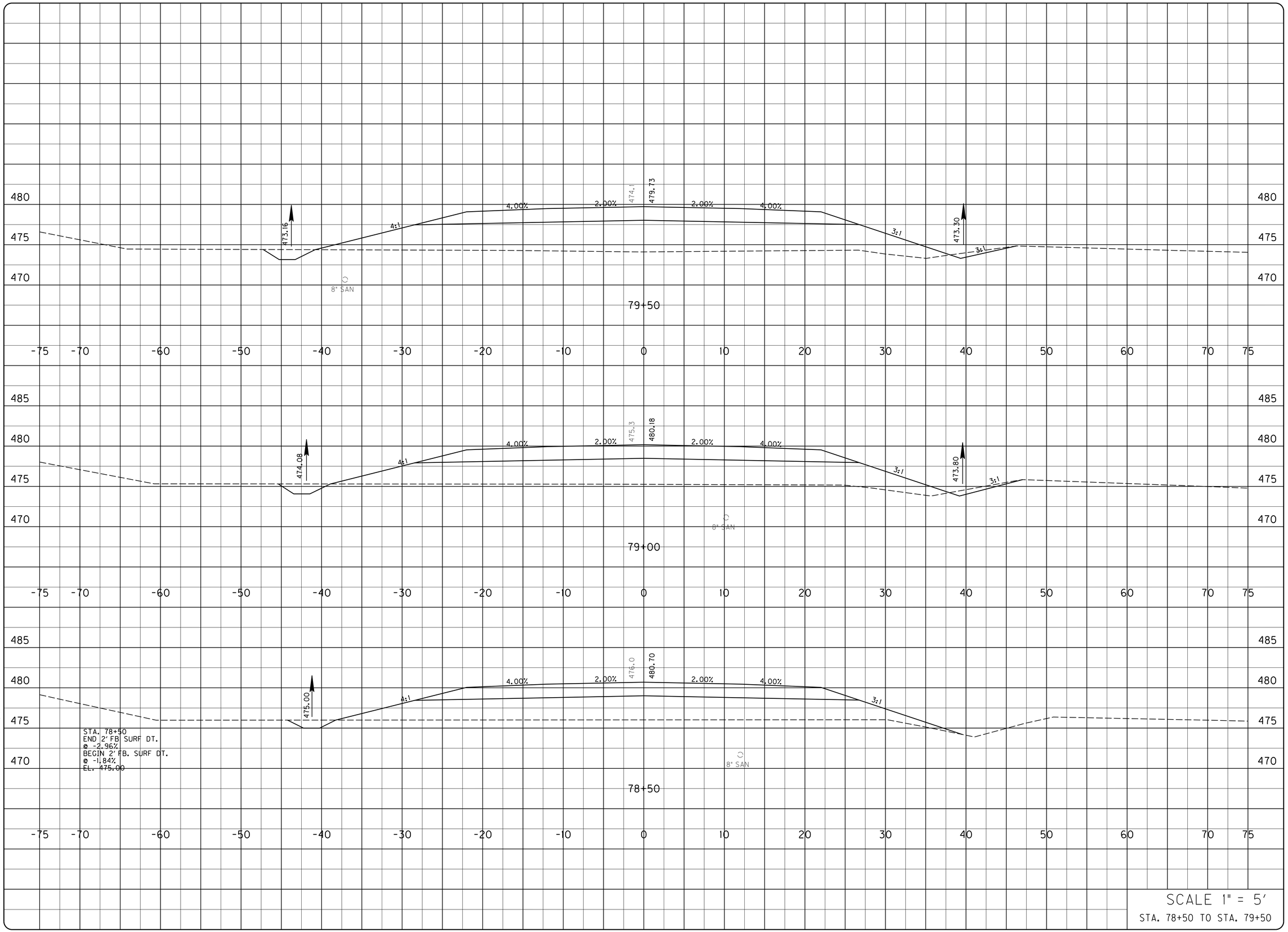

STA. 78+50
END 2' FB SURF DT.
@ -2.96%
BEGIN 2' FB. SURF DT.
@ -1.84%
EL. 475.00

SCALE 1" = 5'

STA. 78+50 TO STA. 79+50

PROJECT NO.: 05093
DATE:
DRAWING BY:
REVISION DATES:
REVISION NOTES:

MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
X7

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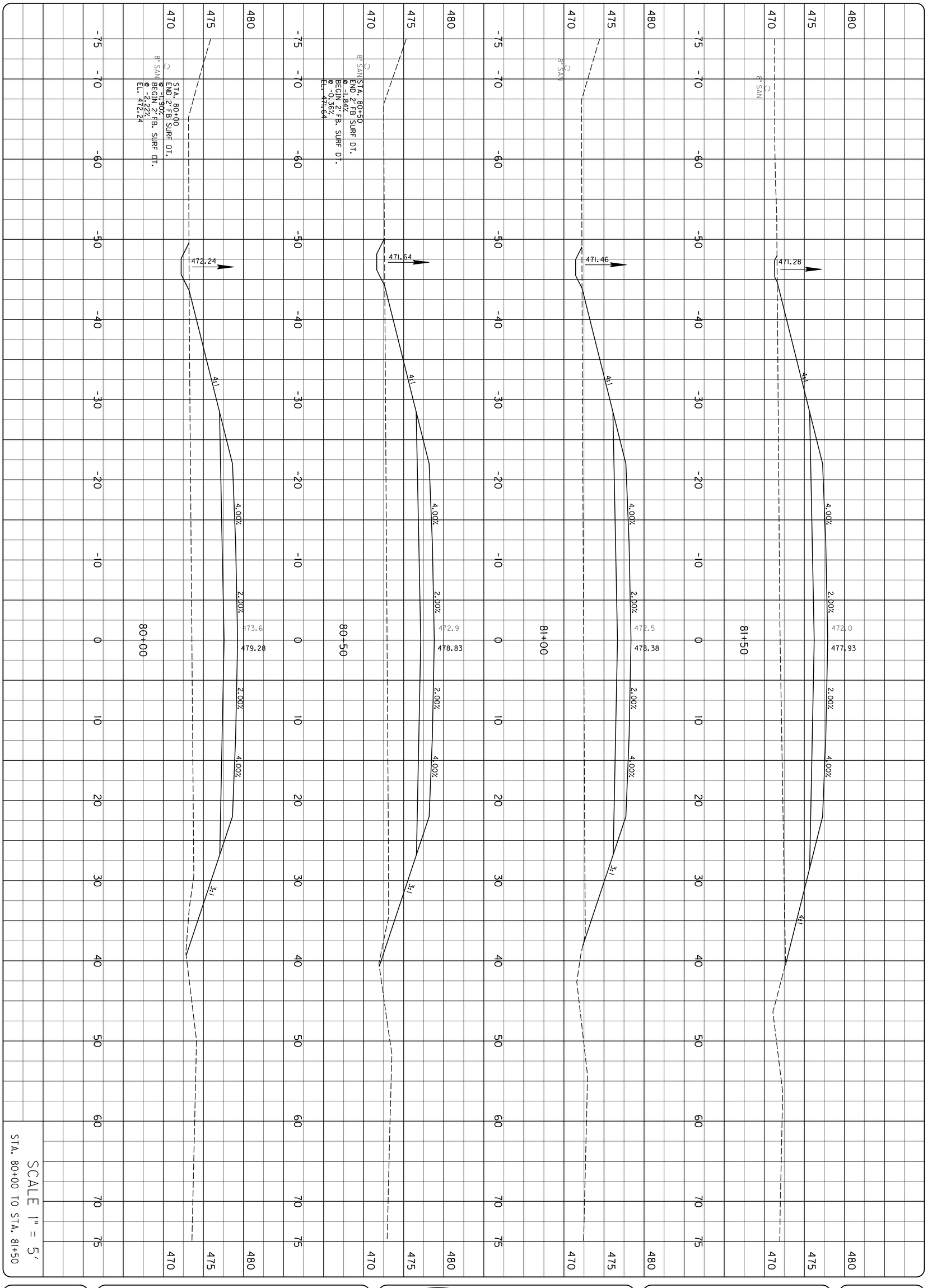

SCALE 1" = 5'
STA. 80+00 TO STA. 81+50

SHEET 8X

MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

BFW
BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DILGUID DRIVE, MURRAY, KENTUCKY 42071, PHONE: (270) 753-7307
500 SOUTH 17th STREET, PADUCAH, KENTUCKY 42003, PHONE: (270) 443-1999
403 NORTH COURT STREET, MARION, ILLINOIS 62959, PHONE: (618) 997-3190
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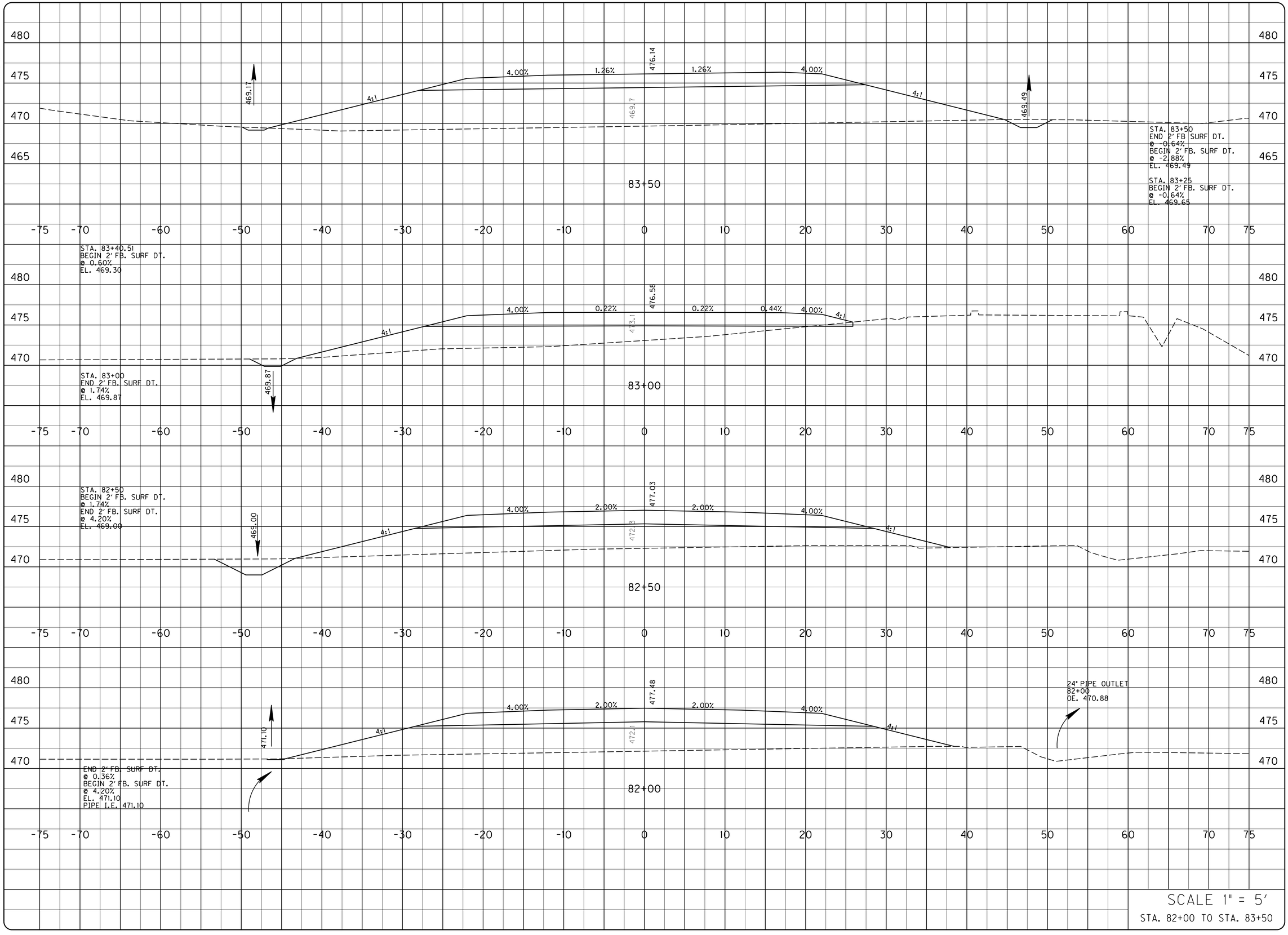

PROJECT NO.: 05093
DRAWING BY :
REVISION DATES :
REVISION NOTES :
DATE :

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
151 EXCELSIOR DRIVE
MURRAY, KENTUCKY 42071
PHONE - 270.753.7307
400 NORTH COURT STREET
PADUCAH, KENTUCKY 42001
PHONE - 270.443.1995
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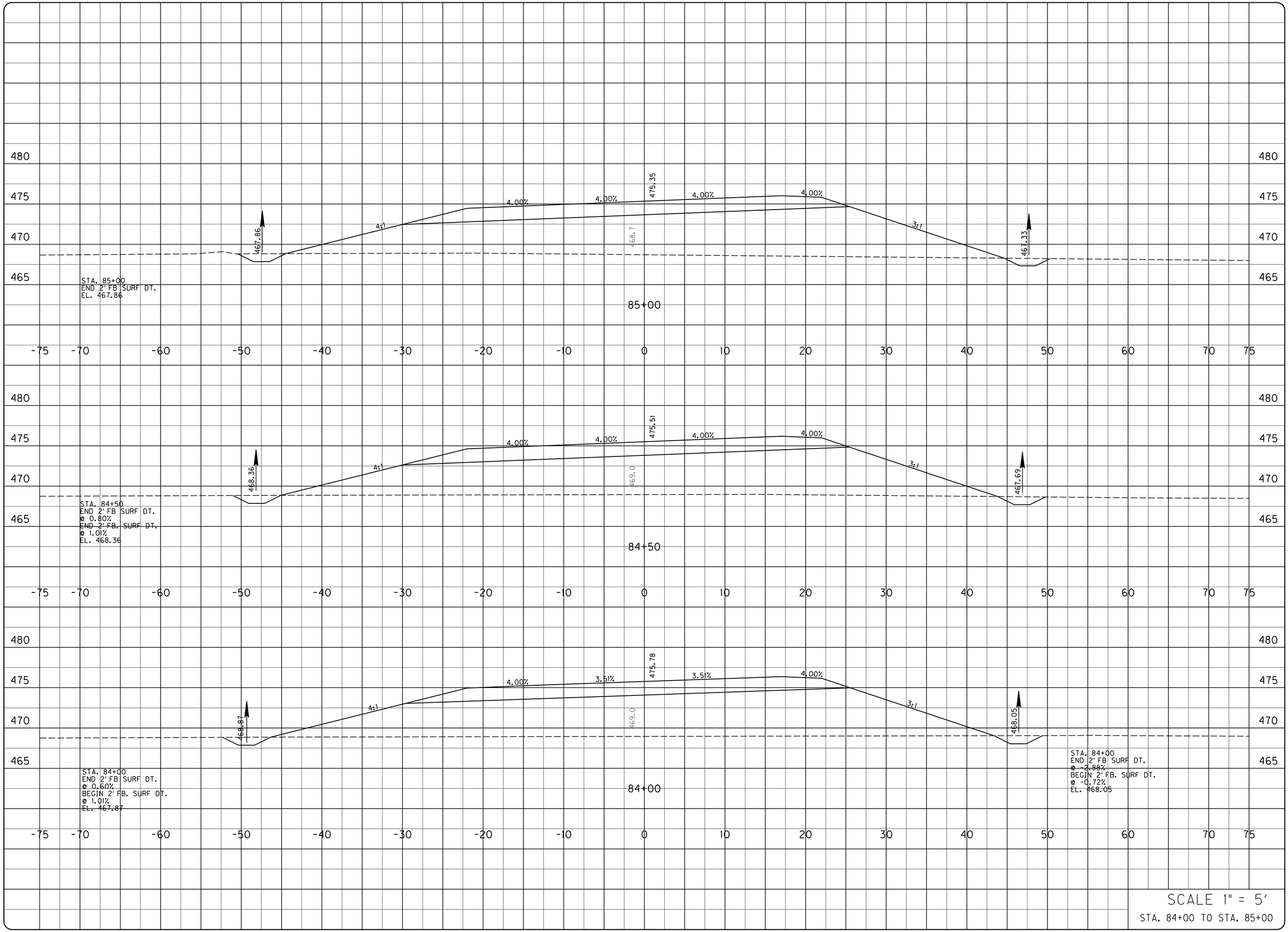
MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
X9



PROJECT NO.: 05093 DATE:

DRAWING BY:

REVISION DATES:

REVISION NOTES:

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ENGINEERING & TESTING, INC.

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MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
X10

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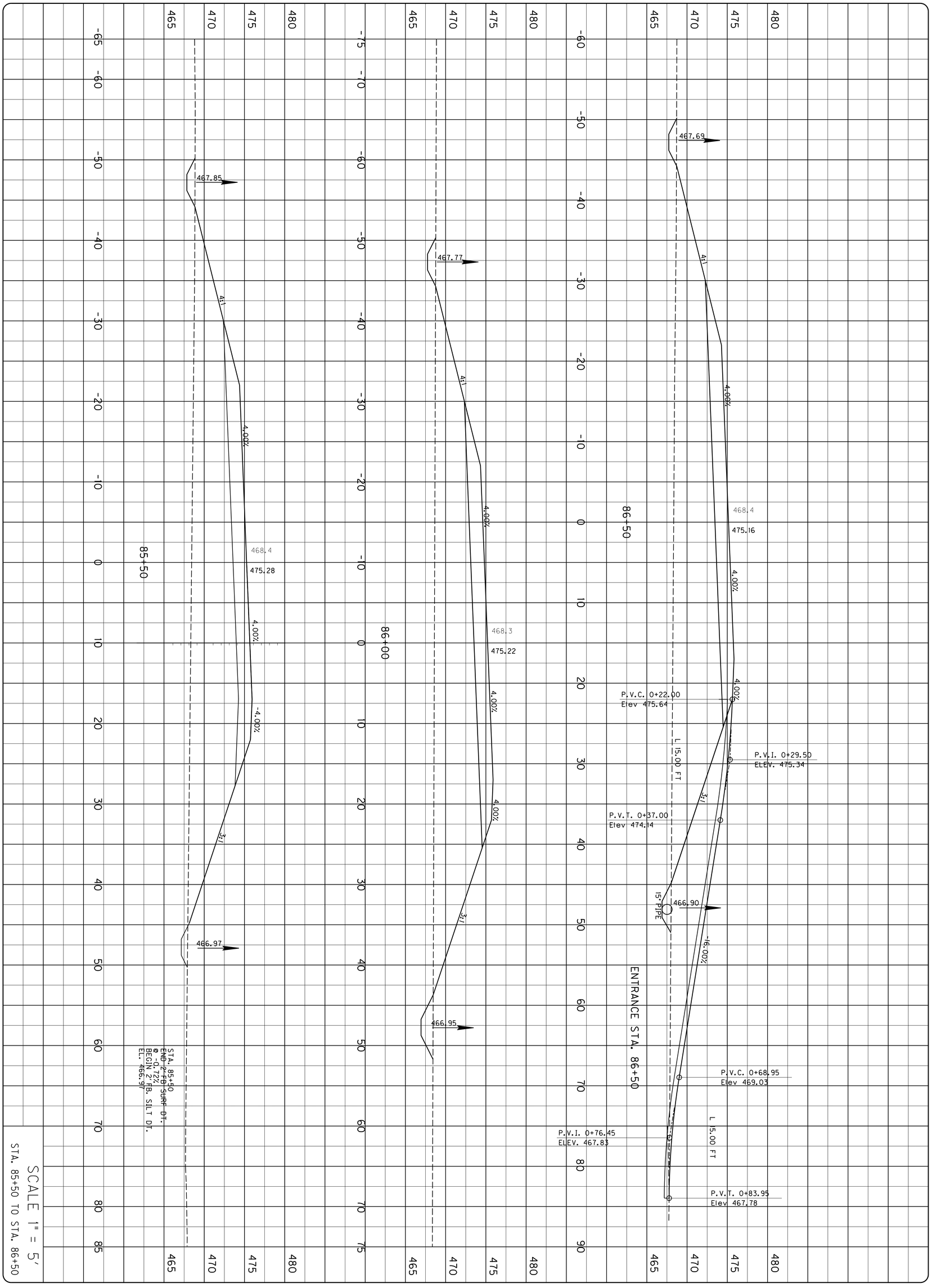

SCALE 1" = 5'

STA. 85+50 TO STA. 86+50

SHEET X11

MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

BFW
BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DILGUID DRIVE, MURRAY, KENTUCKY 42071, PHONE - 270.753.7307
500 SOUTH 17th STREET, PADUCAH, KENTUCKY 42003, PHONE - 270.443.1399
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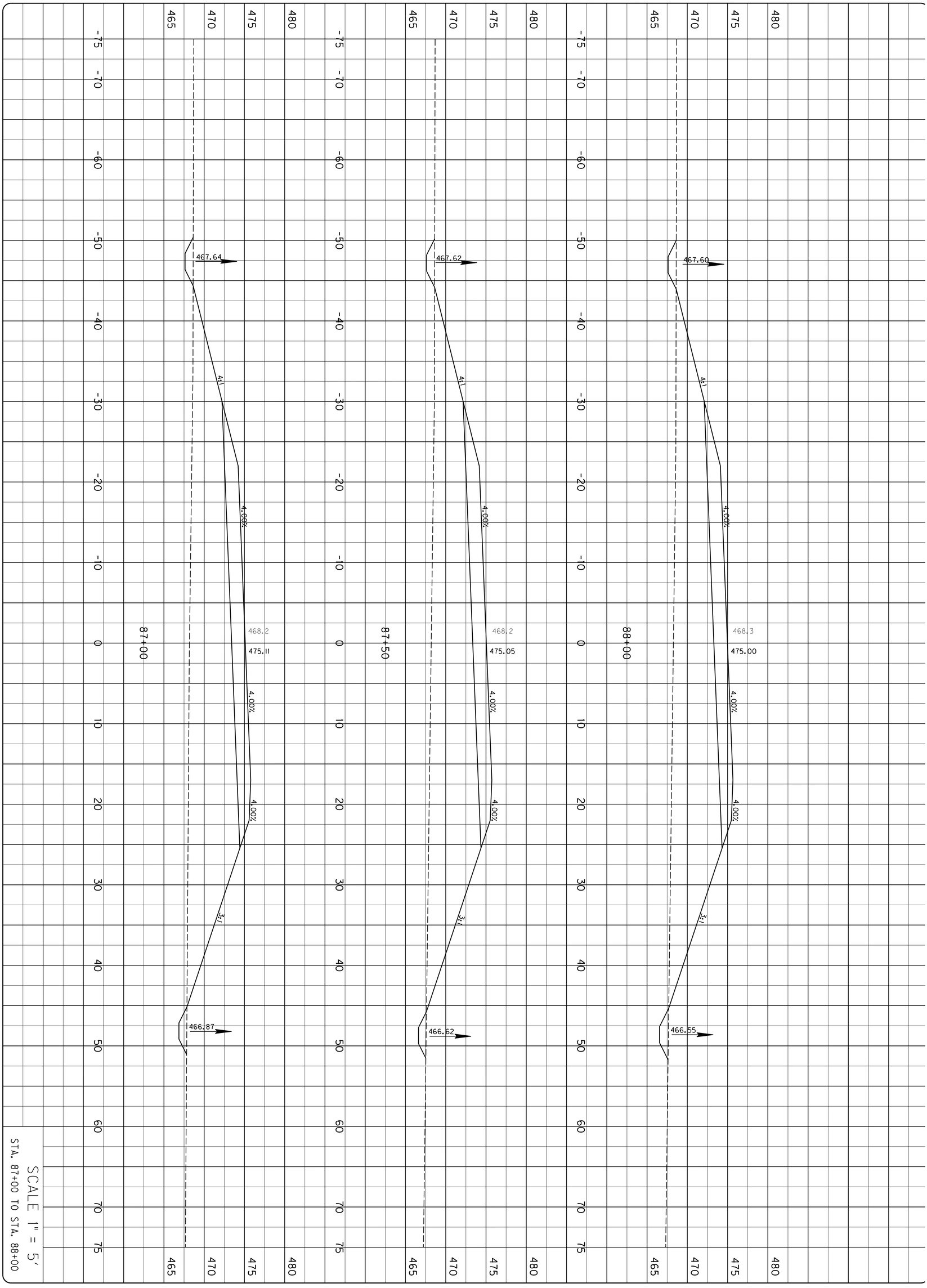

SHEET X12

MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

BFW

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ENGINEERING & TESTING, INC.

1215 DILIGUID DRIVE
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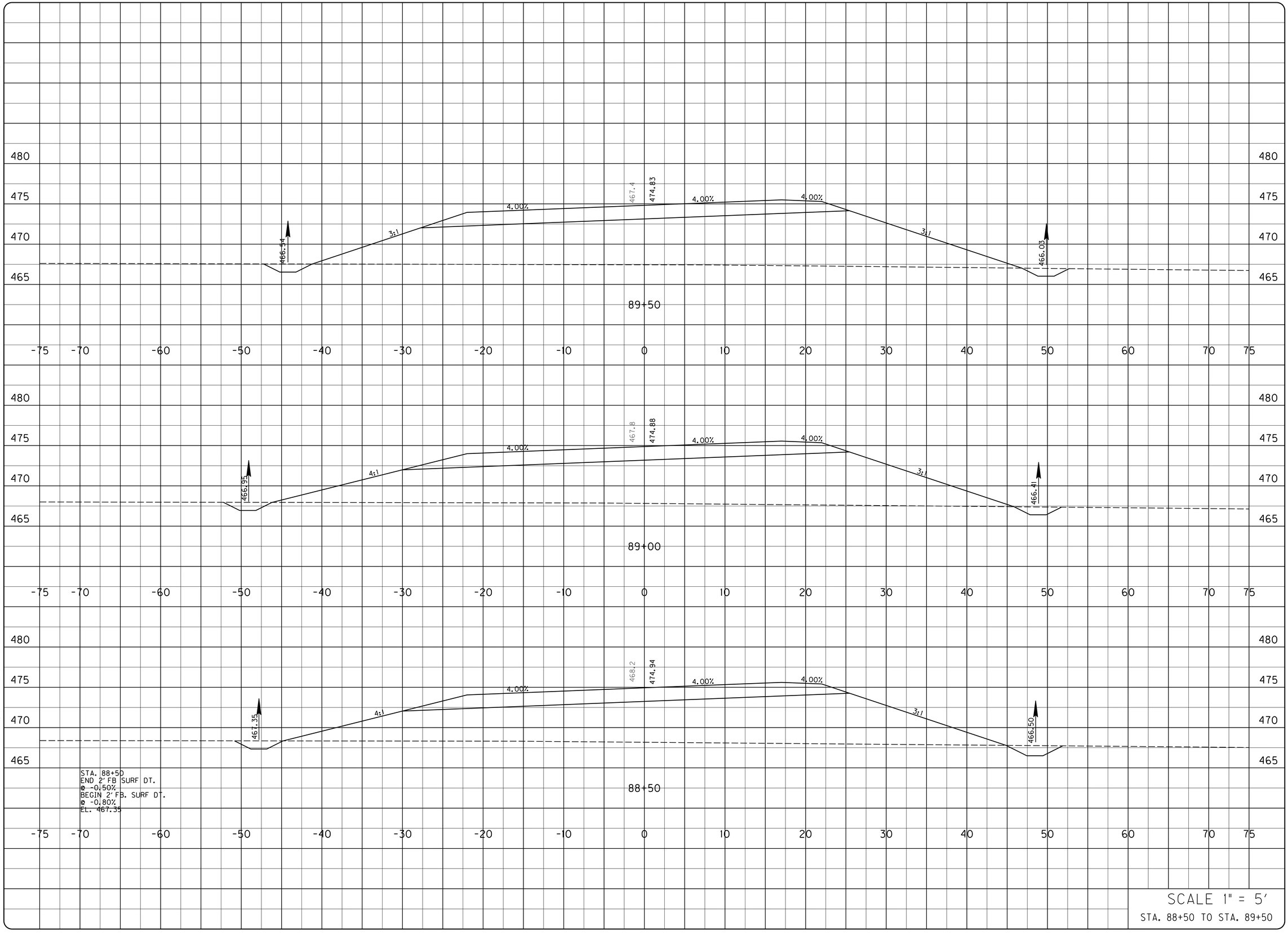

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1215 BLUEGRASS DRIVE
MURRAY, KENTUCKY 42071
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MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
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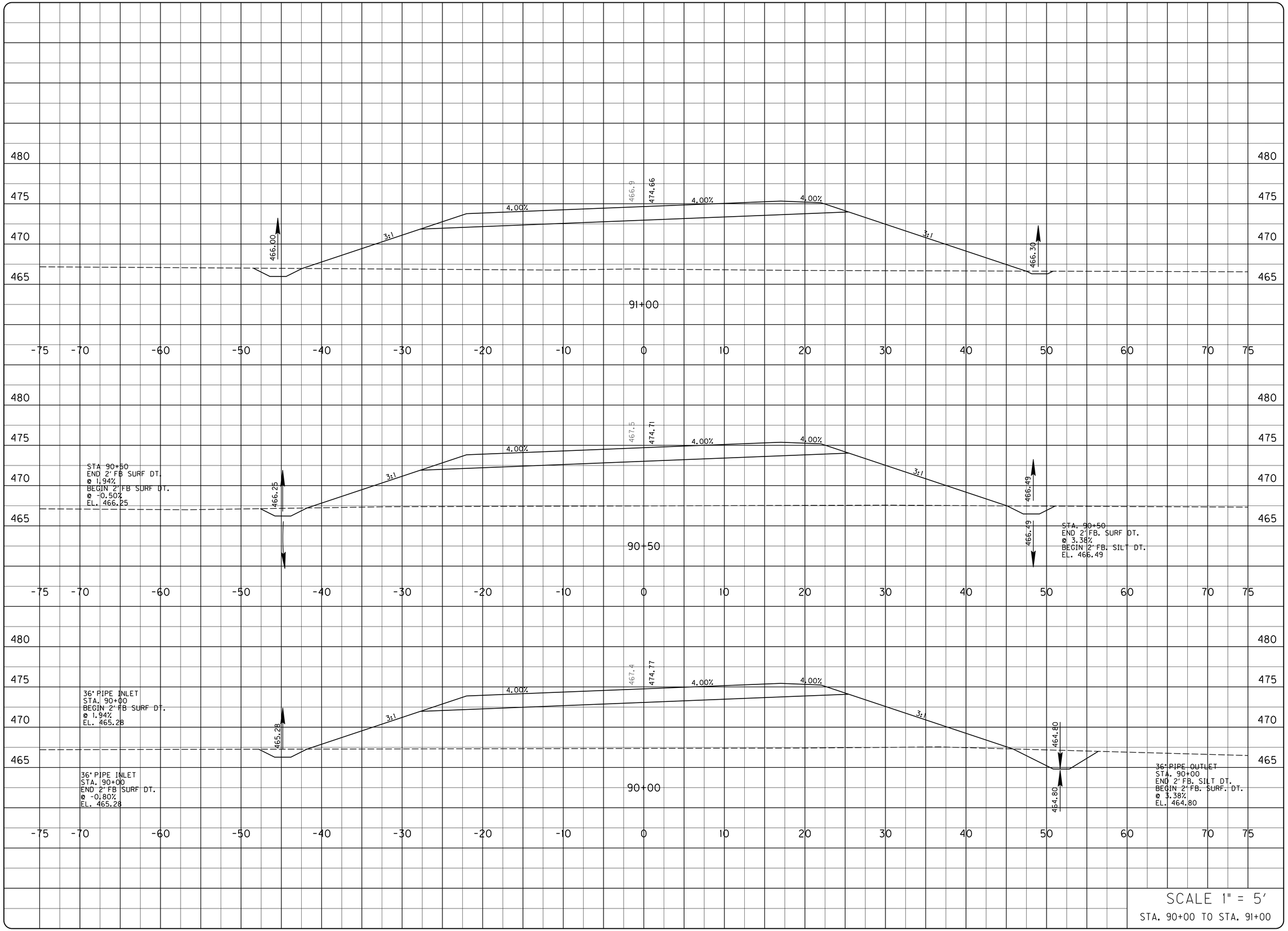
MURRAY, KY 42071

SHEET
X13



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MAINLINE - CROSS SECTIONS

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SHEET
X14

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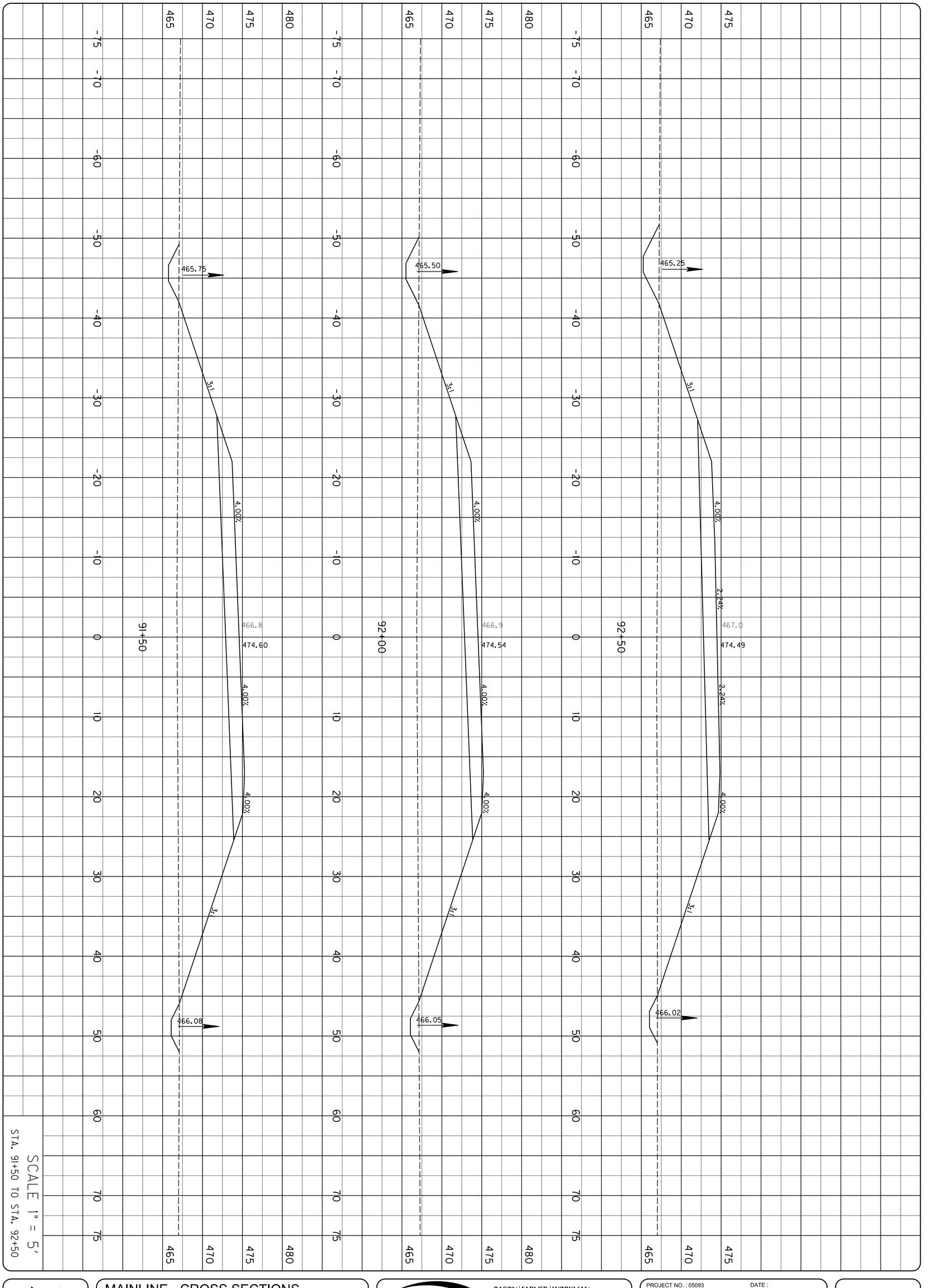

SCALE 1" = 5'

STA. 91+50 TO STA. 92+50

SHEET X15

MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

BFW
BACON | FARMER | WORKMAN
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1215 DILQUID DRIVE, MURRAY, KENTUCKY 42071, PHONE - 270.753.7307
500 SOUTH 17th STREET, PADUCAH, KENTUCKY 42003, PHONE - 270.443.1999
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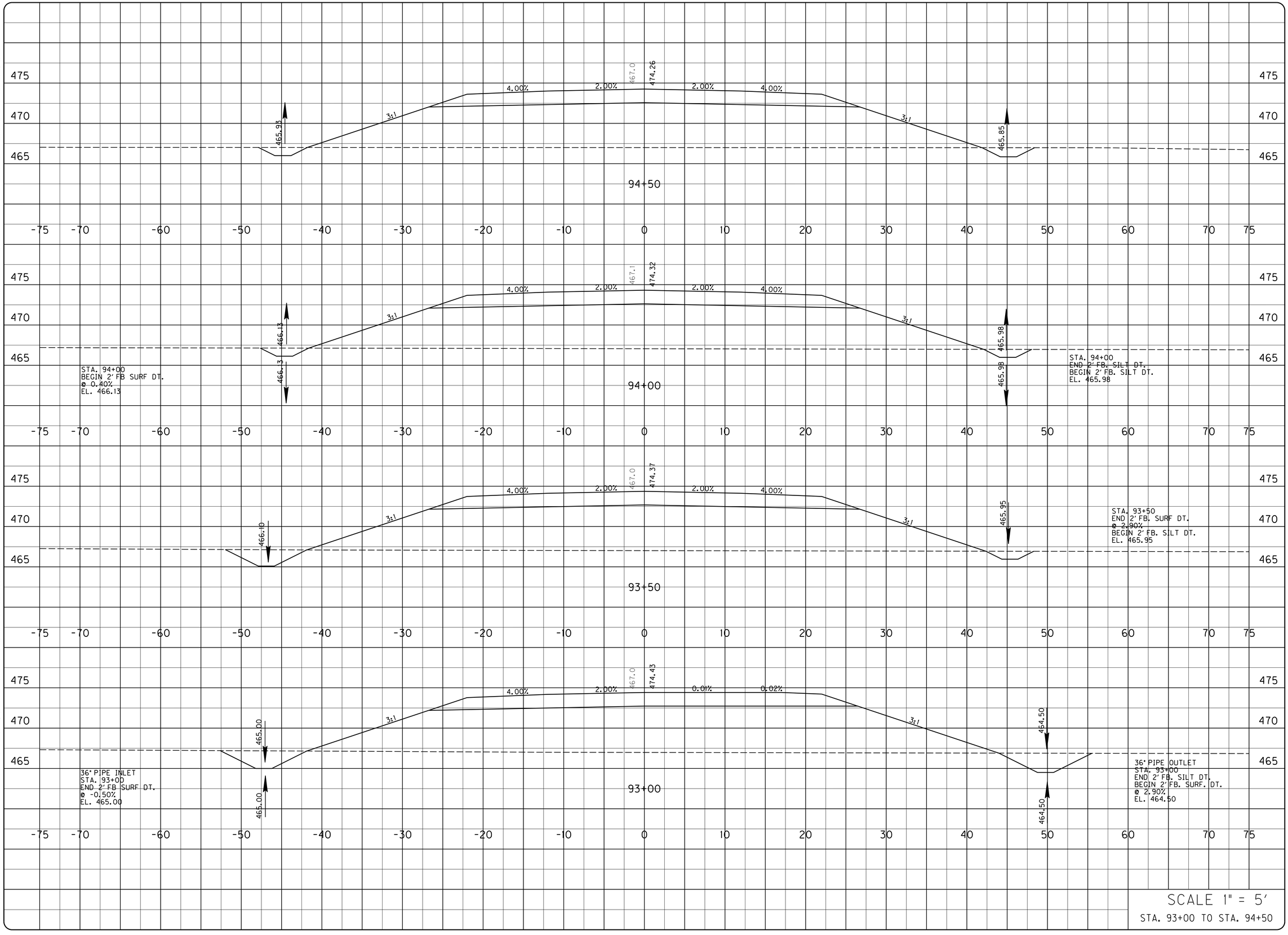

SCALE 1" = 5'

STA. 93+00 TO STA. 94+50

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1215 DUGUID DRIVE
MURRAY, KENTUCKY 42071
PHONE - 270.753.7307
500 SOUTH 7TH STREET
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PHONE - 270.443.1995
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MAINLINE - CROSS SECTIONS

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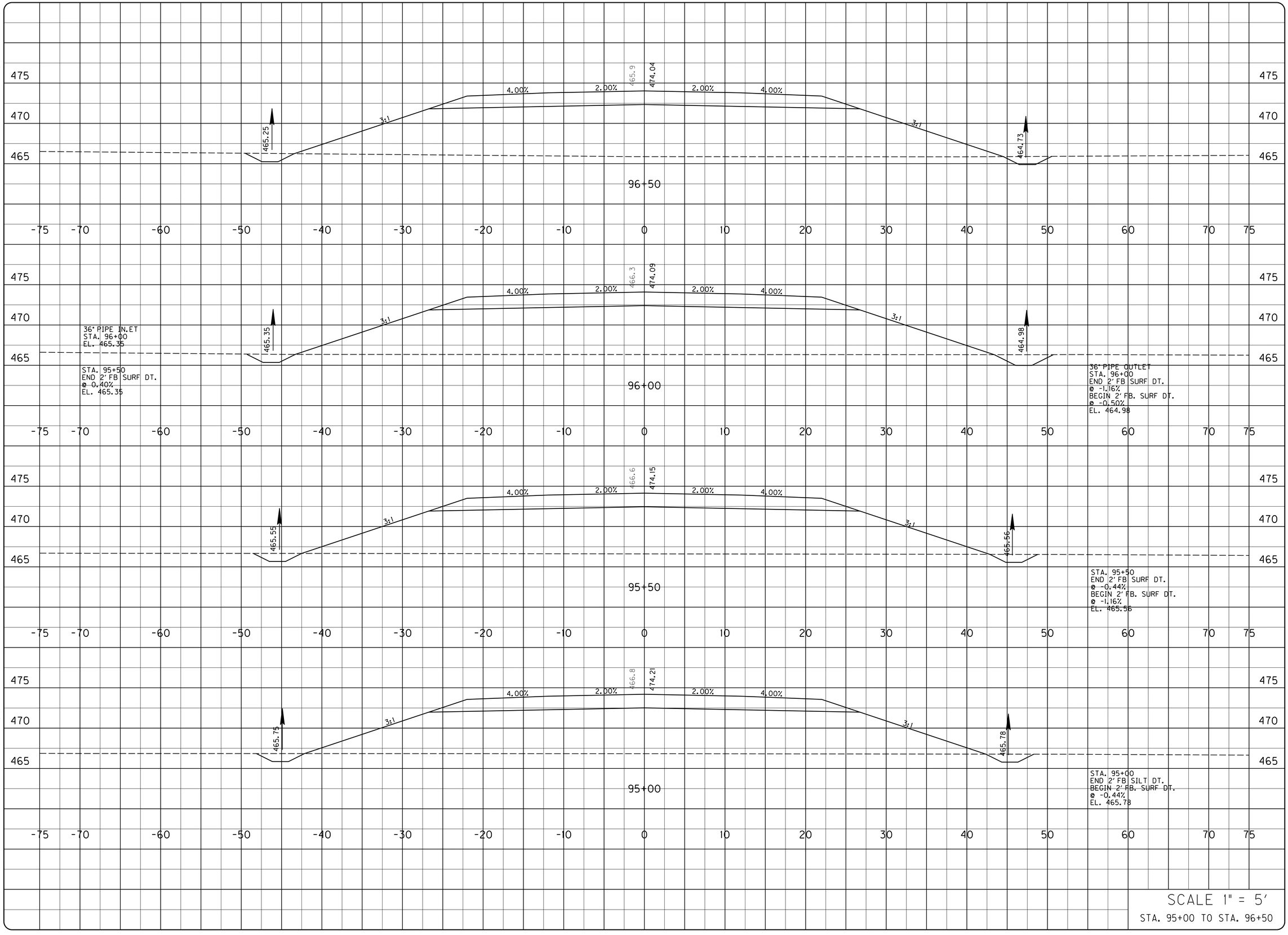
SHEET
X16



SCALE 1" = 5'

STA. 95+00 TO STA. 96+50

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BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DUGUID DRIVE
MURRAY, KENTUCKY 42071
PHONE - 270.753.7307
500 SOUTH 7TH STREET
PADUCAH, KENTUCKY 42003
PHONE - 270.443.1995
403 NORTH COURT STREET
MARION, ILLINOIS 62959
PHONE - 618.997.5190
WWW.BFWENGINEERS.COM

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MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
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MURRAY, KY 42071

SHEET
X17

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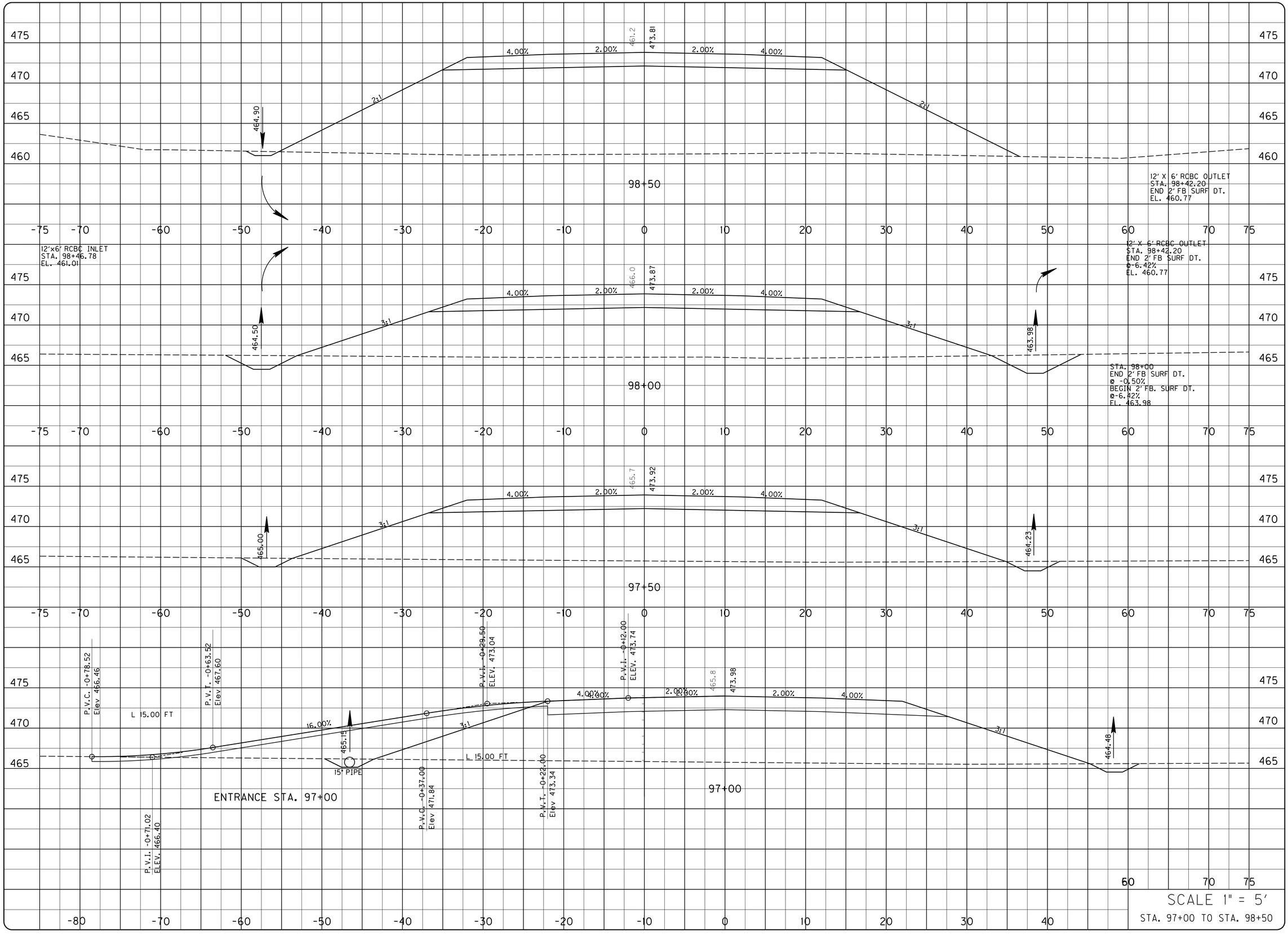

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REVISION NOTES :
DATE :

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
111 CHOUTEAU DRIVE
MURRAY, KENTUCKY 42071
PHONE - 270.753.7307
400 NORTH COURT STREET
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MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
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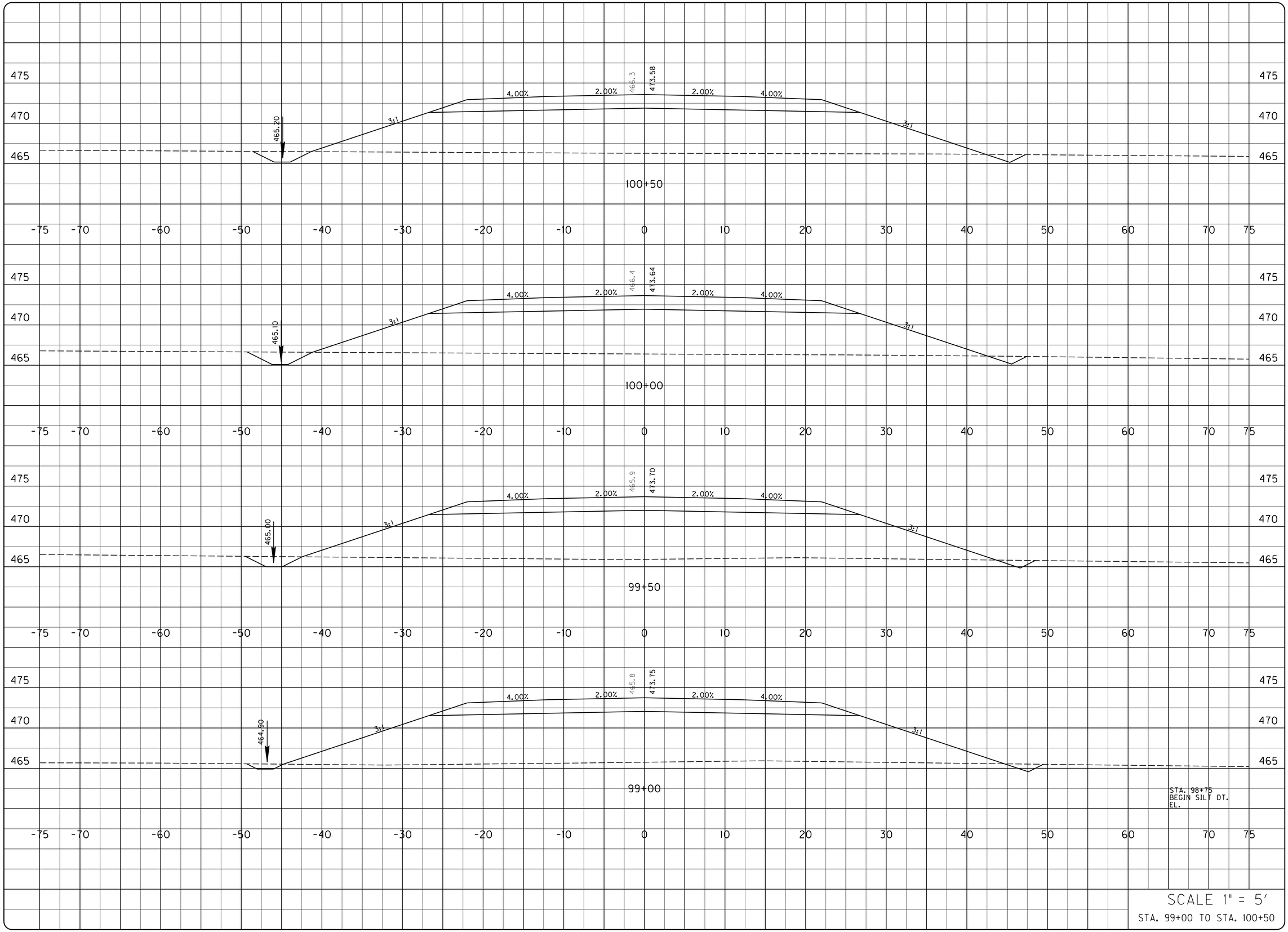
MURRAY, KY 42071

SHEET
X18



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PROJECT NO.: 05093
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BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DUGUID DRIVE
MURRAY, KENTUCKY 42071
PHONE - 270.753.7307
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SHEET
X19

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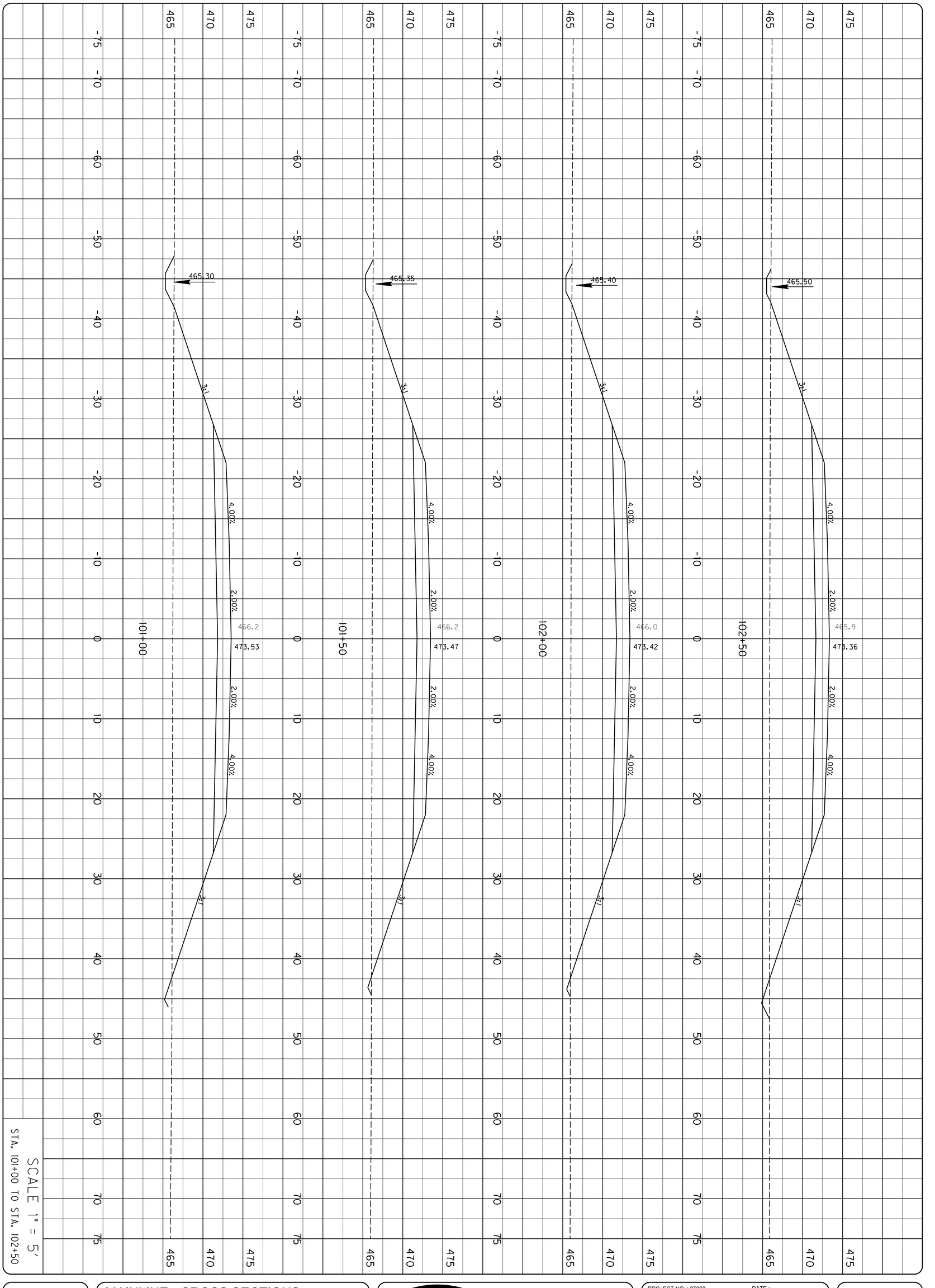

SCALE 1" = 5'

STA. 101+00 TO STA. 102+50

SHEET X20

MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

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ENGINEERING & TESTING, INC.
1215 DILGUID DRIVE, MURRAY, KENTUCKY 42071, PHONE: (270) 753-7307
500 SOUTH 17th STREET, PADUCAH, KENTUCKY 42003, PHONE: (270) 443-1999
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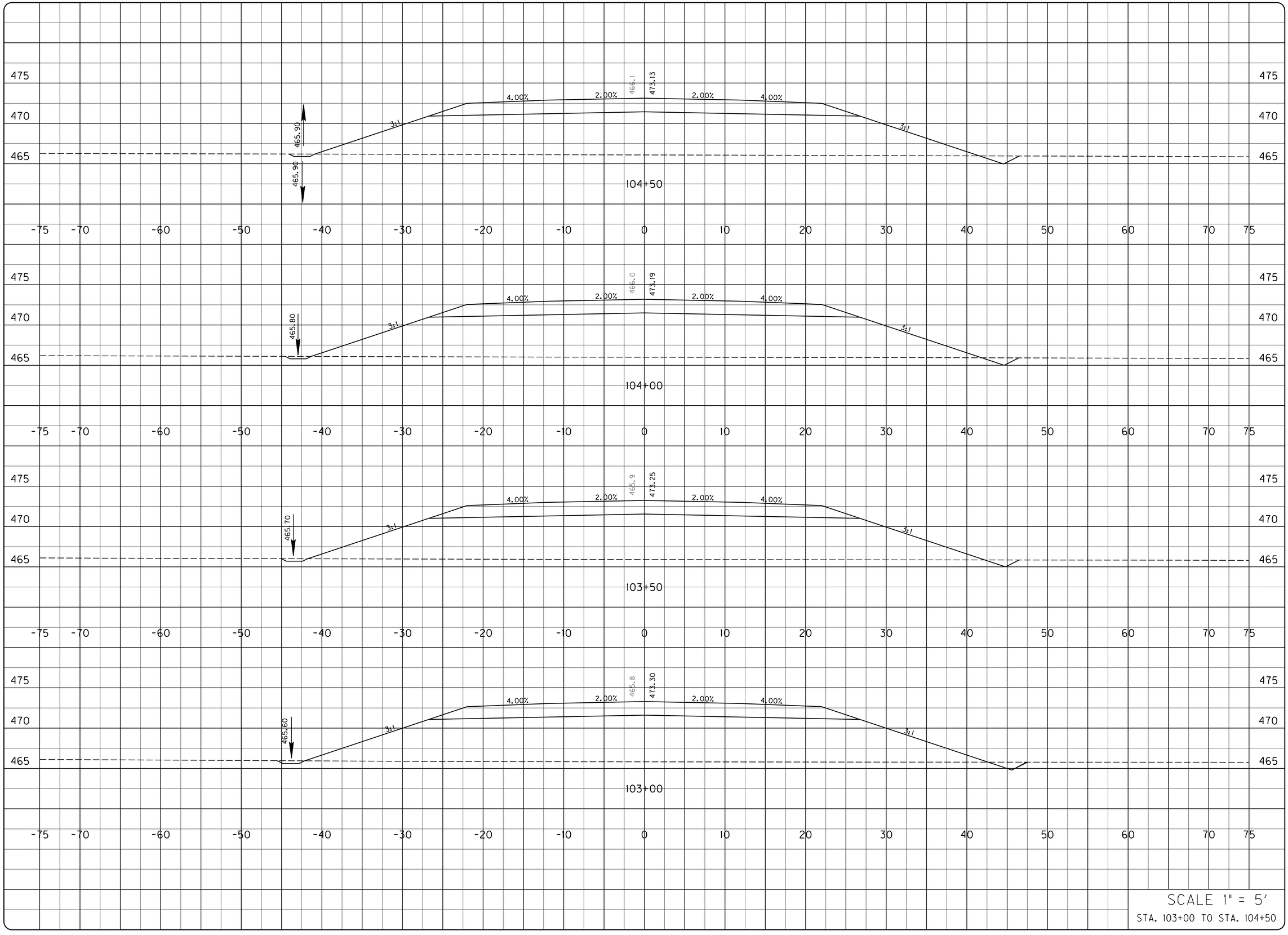

SCALE 1" = 5'

STA. 103+00 TO STA. 104+50

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SHEET

X21

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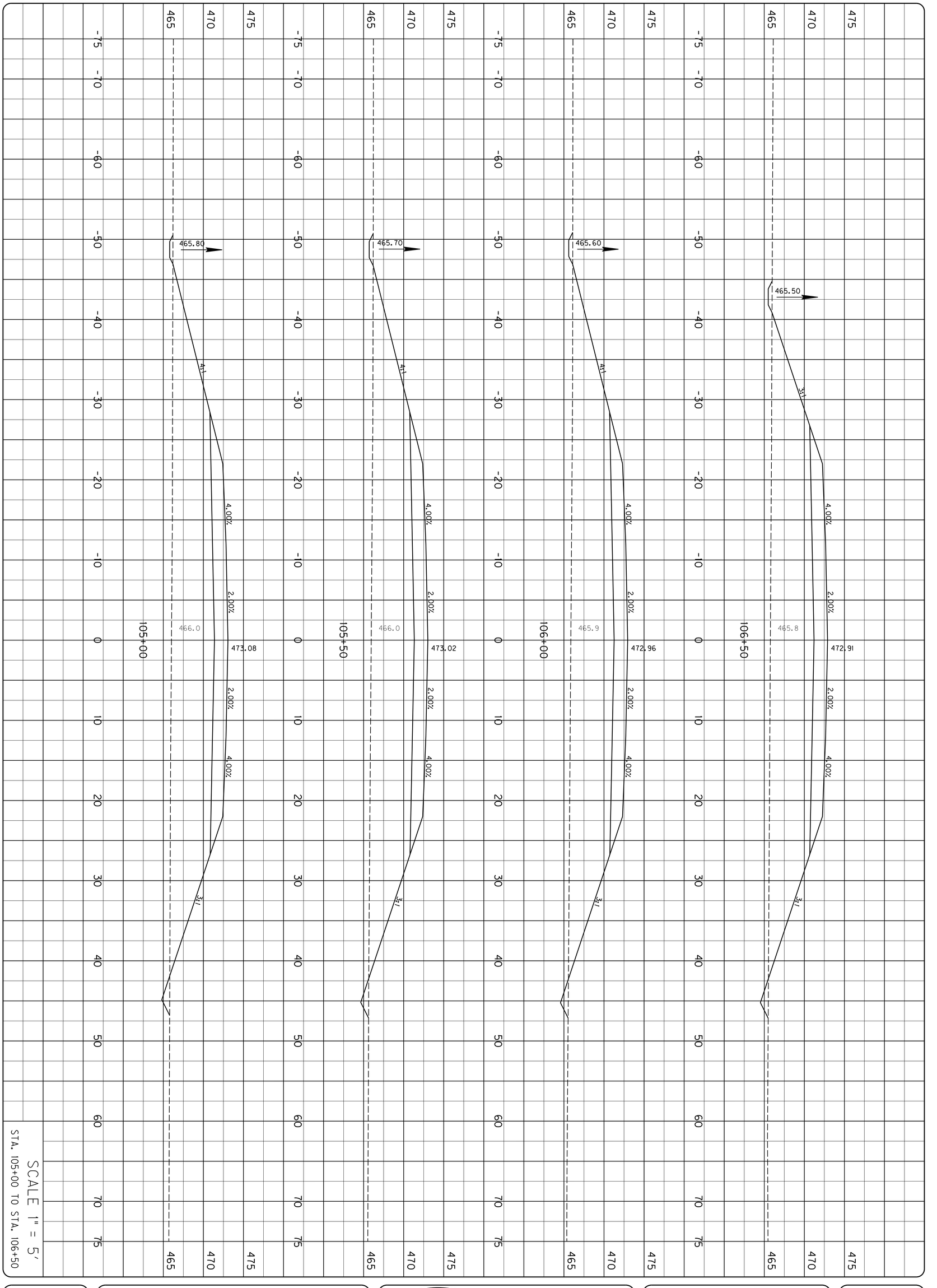

SHEET
X22

MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

BFW
BACON | FARMER | WORKMAN
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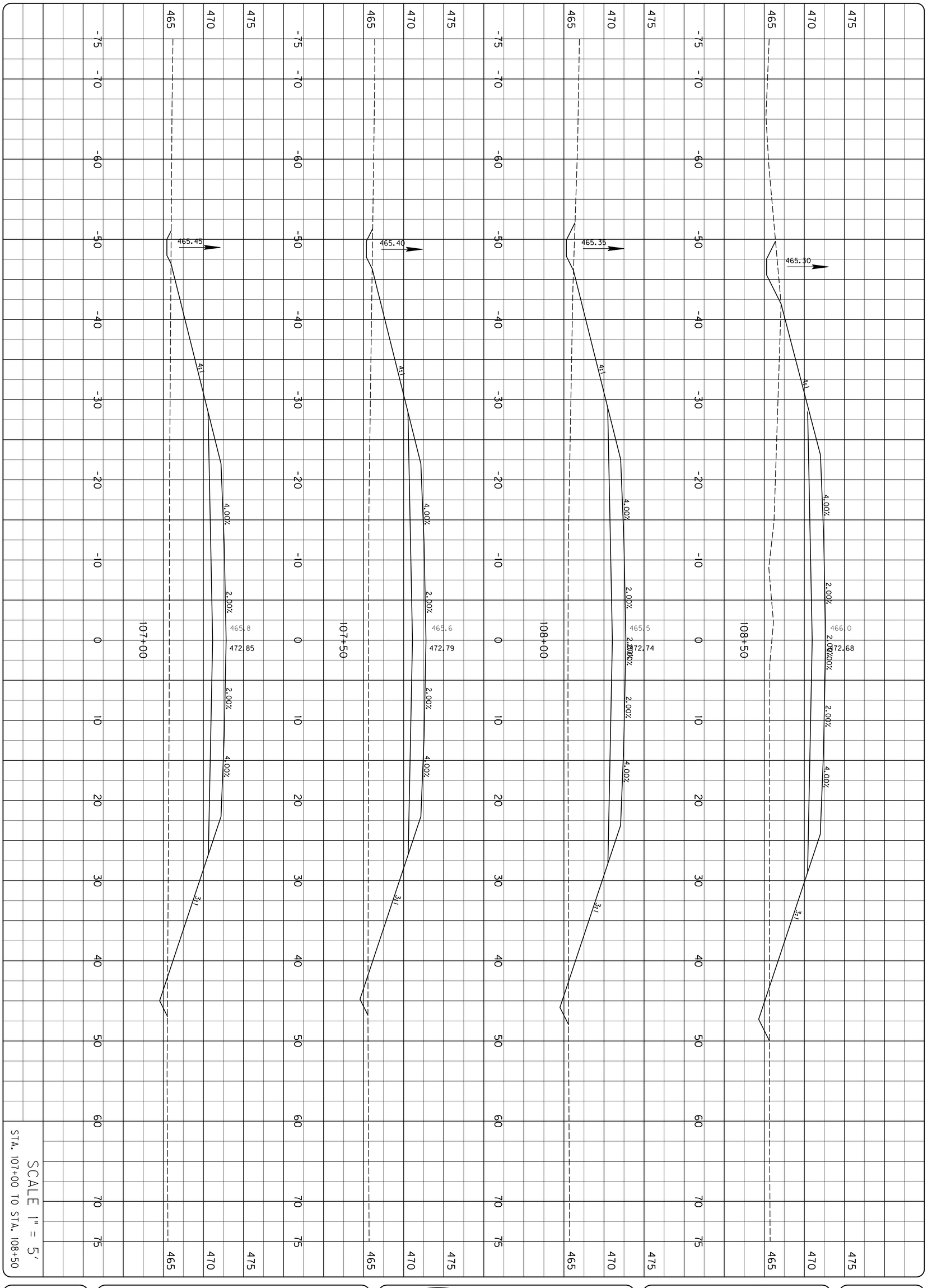

SHEET X23

MAINLINE - CROSS SECTIONS

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104 NORTH 5TH STREET
MURRAY, KY 42071

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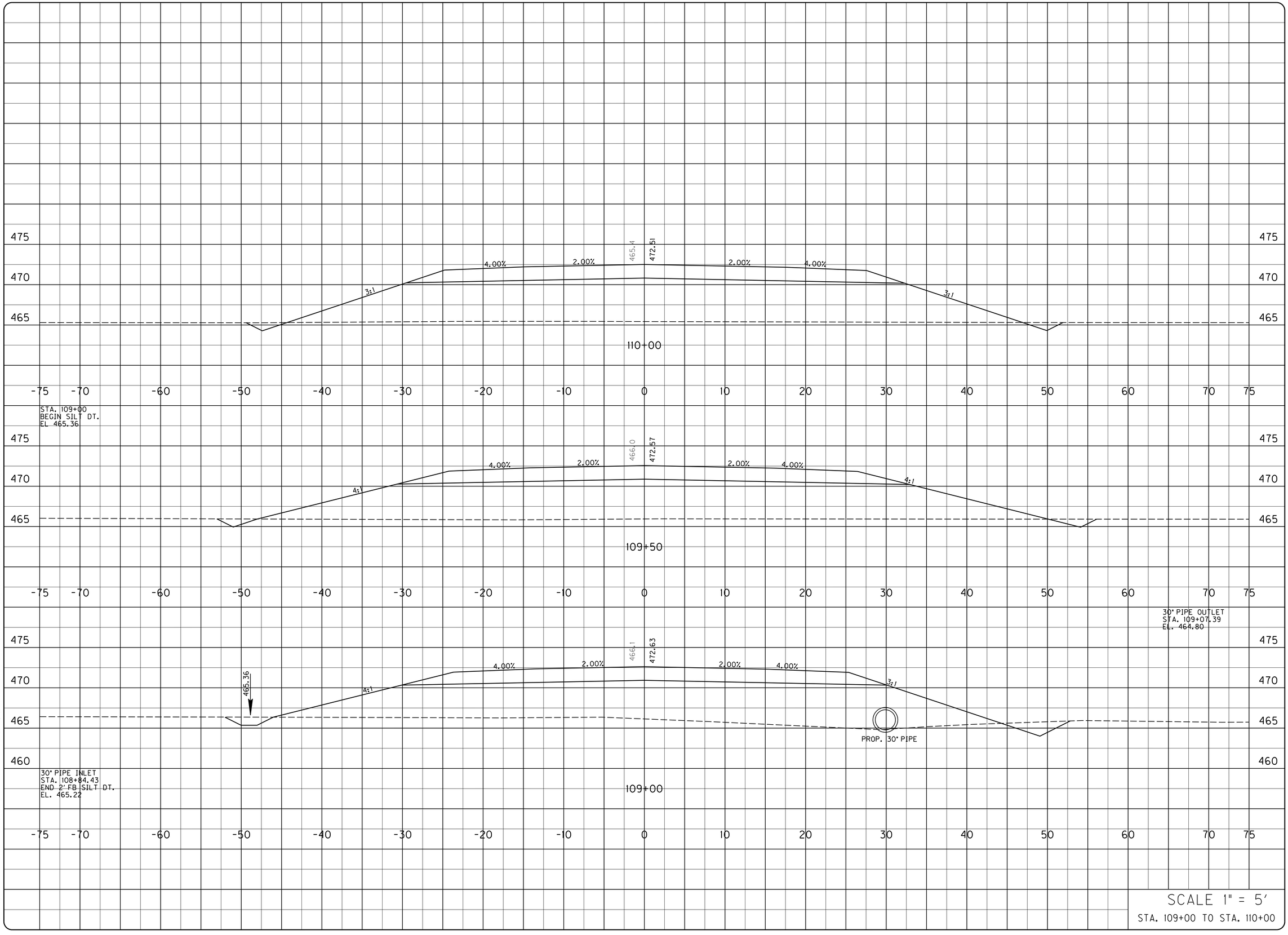

SCALE 1" = 5'

STA. 109+00 TO STA. 110+00

PROJECT NO.: 05093

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SHEET
X24

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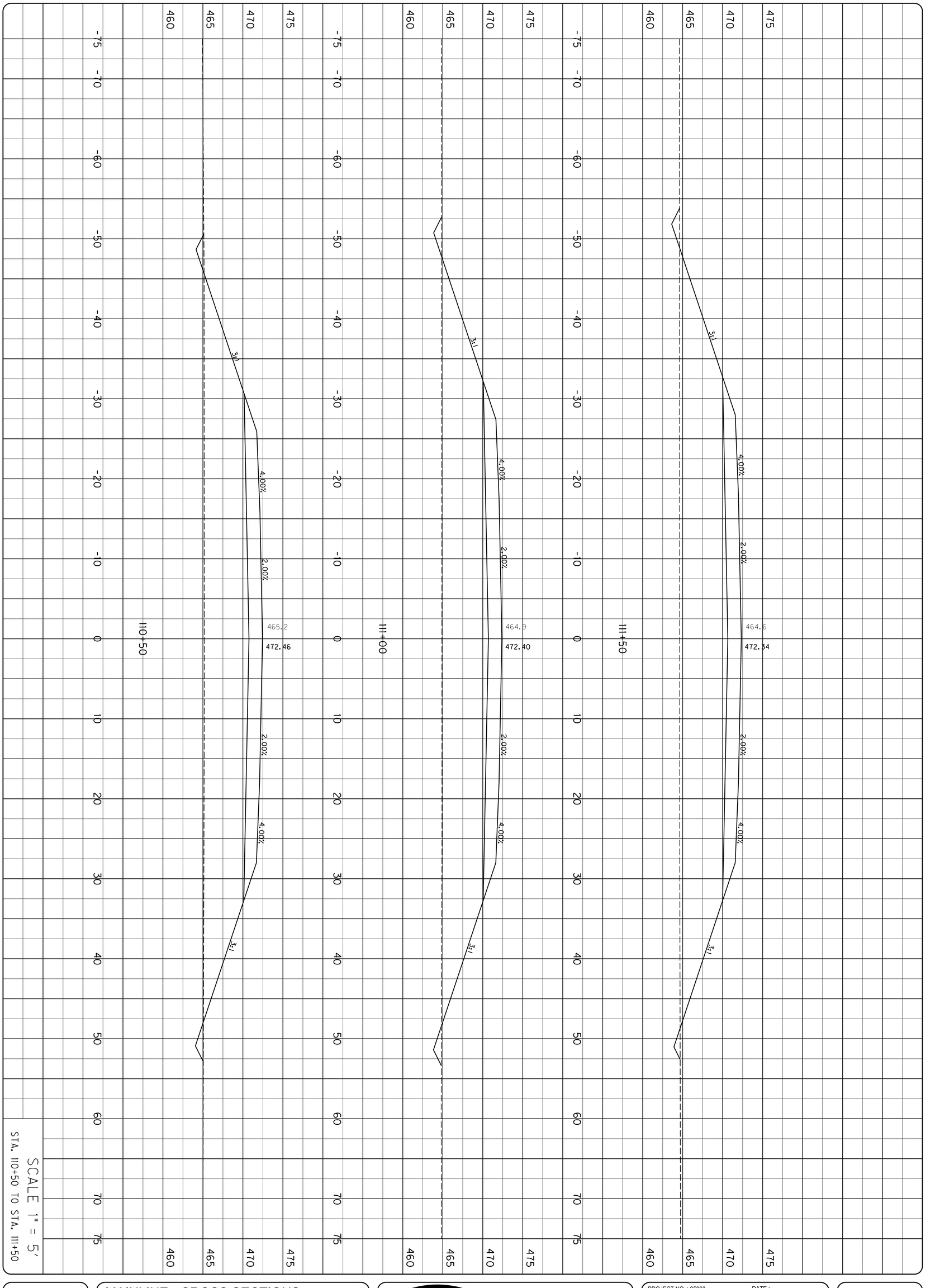

SHEET
X25

MAINLINE - CROSS SECTIONS

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CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

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500 SOUTH 17th STREET, PADUCAH, KENTUCKY 42003, PHONE - (270) 443-1395
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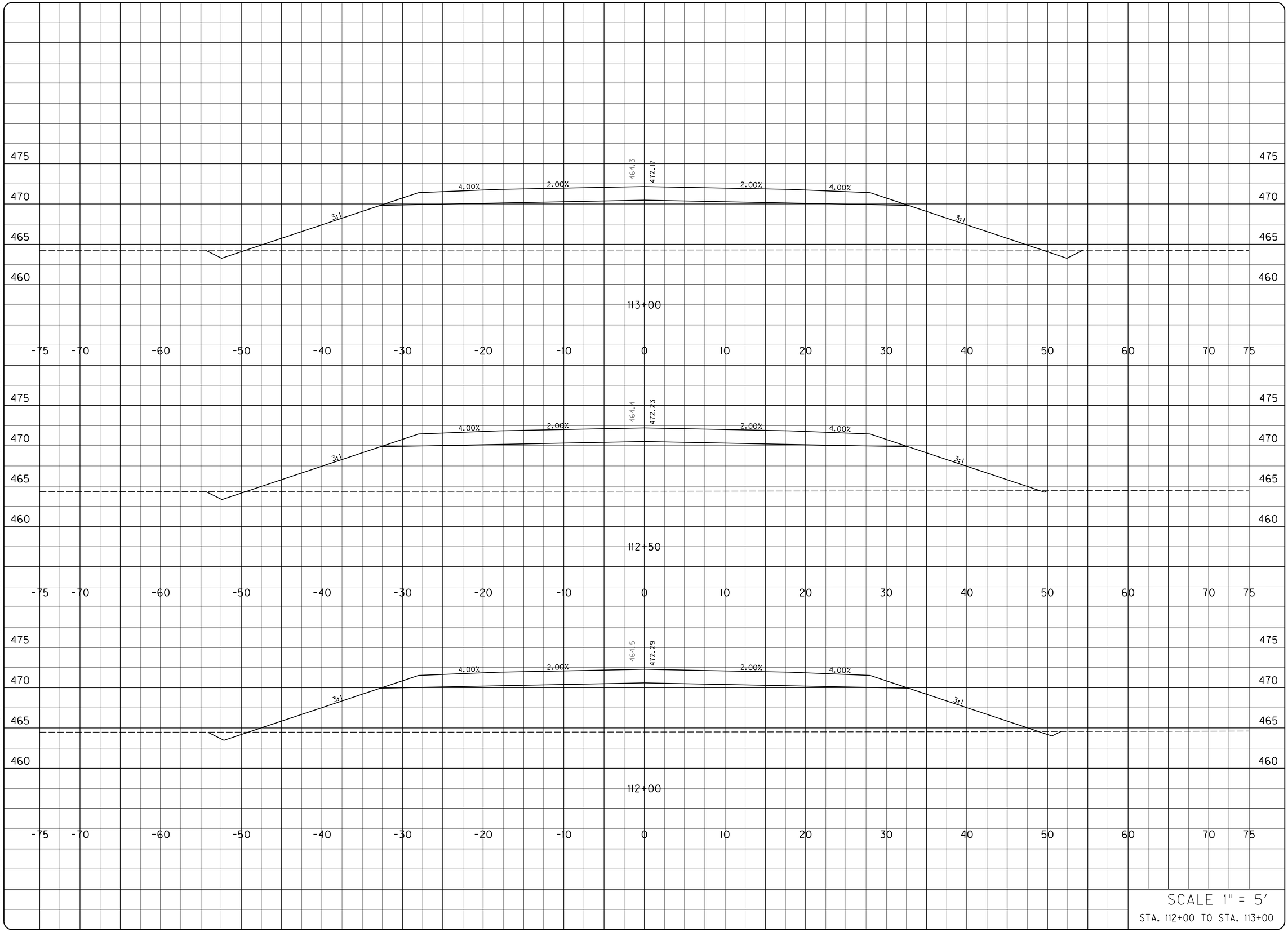

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1215 BLAUGUD DRIVE
MURRAY, KENTUCKY 42071
PHONE: 270.753.7307
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MURRAY BUSINESS LOOP
CITY OF MURRAY
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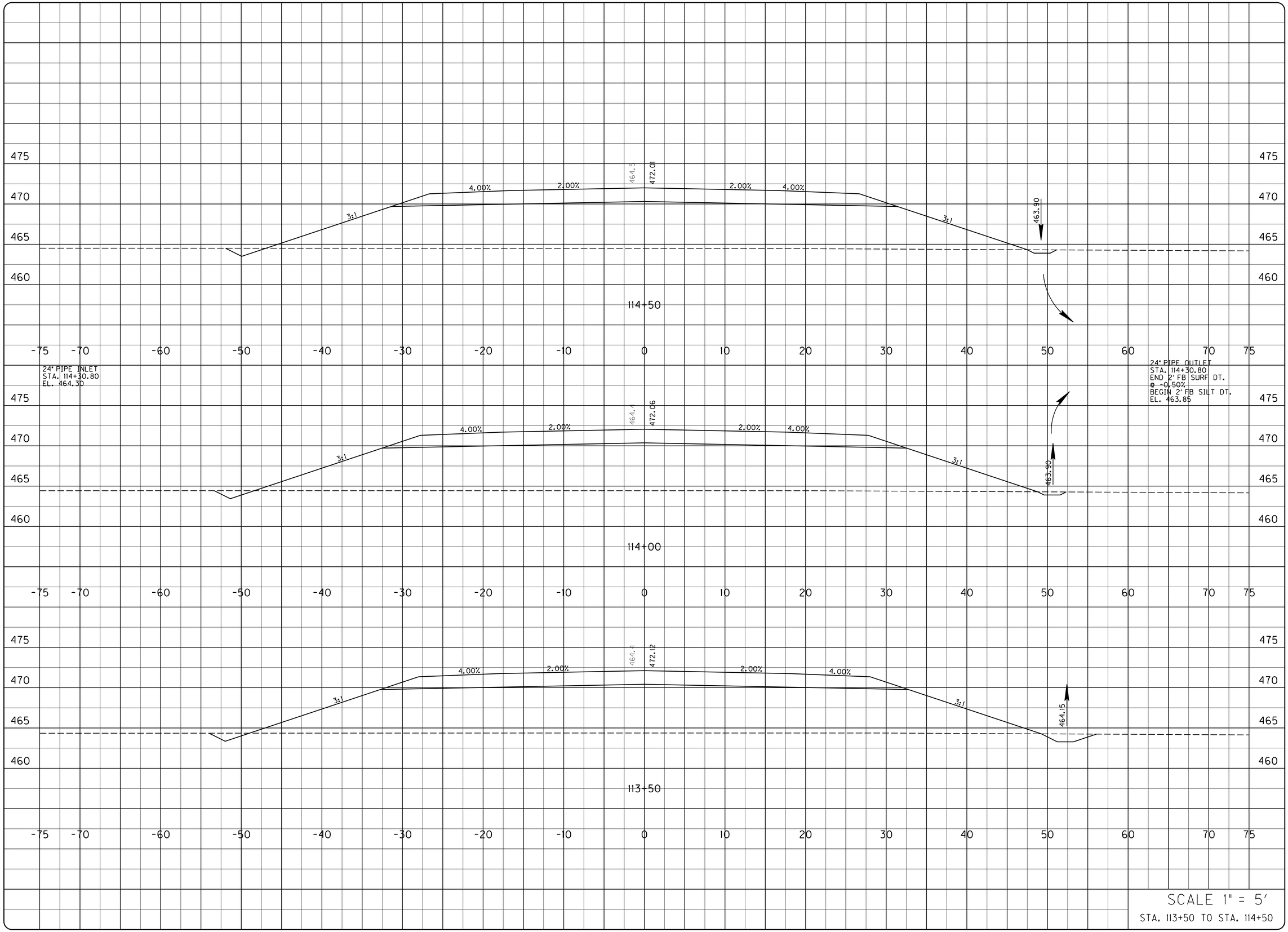
MURRAY, KY 42071

SHEET
X26



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ENGINEERING & TESTING, INC.
1215 BLAUGUD DRIVE
MURRAY, KENTUCKY 42071
PHONE: 270.753.7307
500 SOUTH 7TH STREET
PADUCAH, KENTUCKY 42003
PHONE: 270.443.1995
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MURRAY, KY 42071

SHEET
X27

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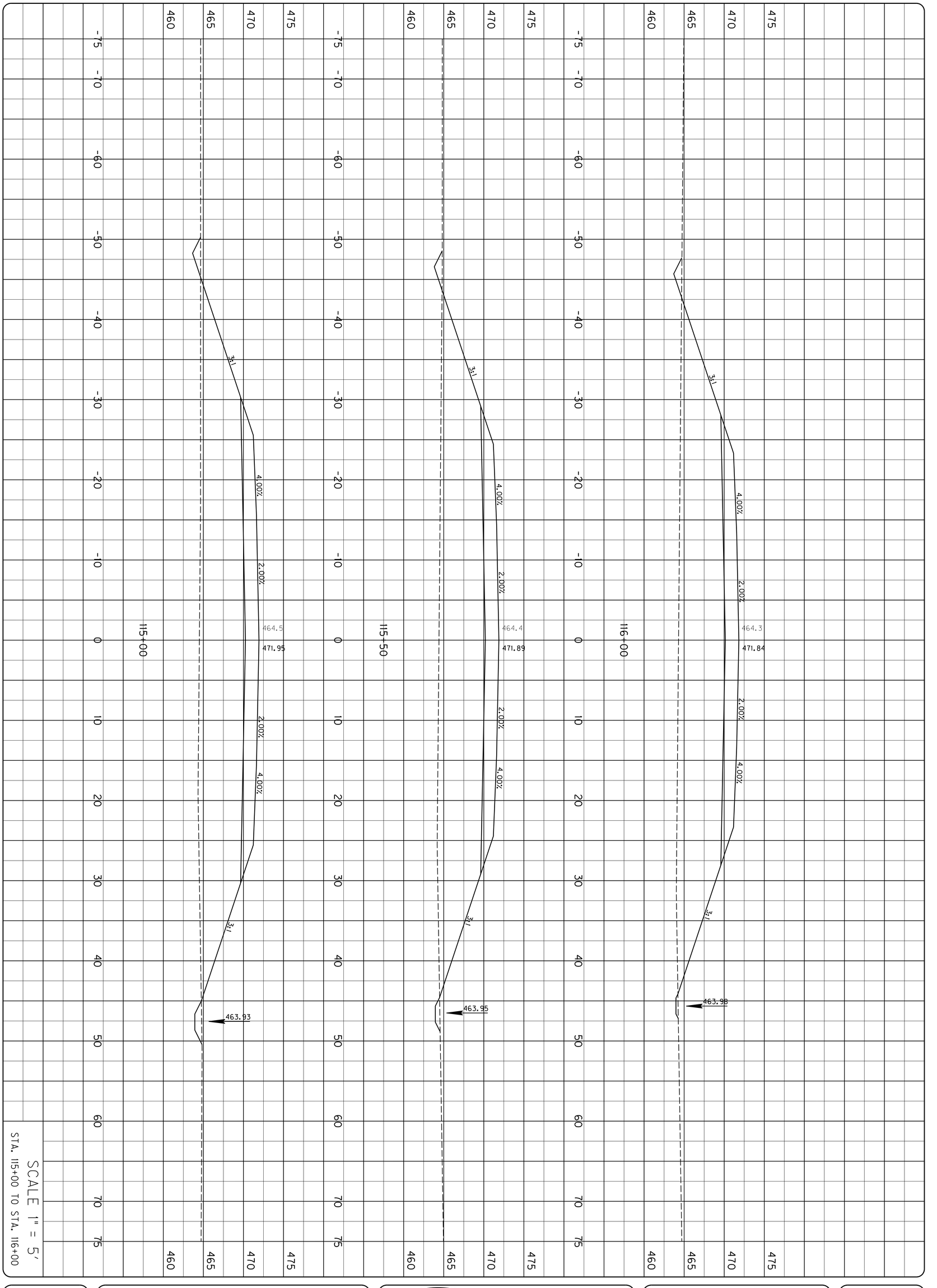

SHEET
X28

MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

BFW
BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DILGUID DRIVE
MURRAY, KENTUCKY 42071
PHONE - (270) 753-7307
500 SOUTH 17th STREET
PADUCAH, KENTUCKY 42003
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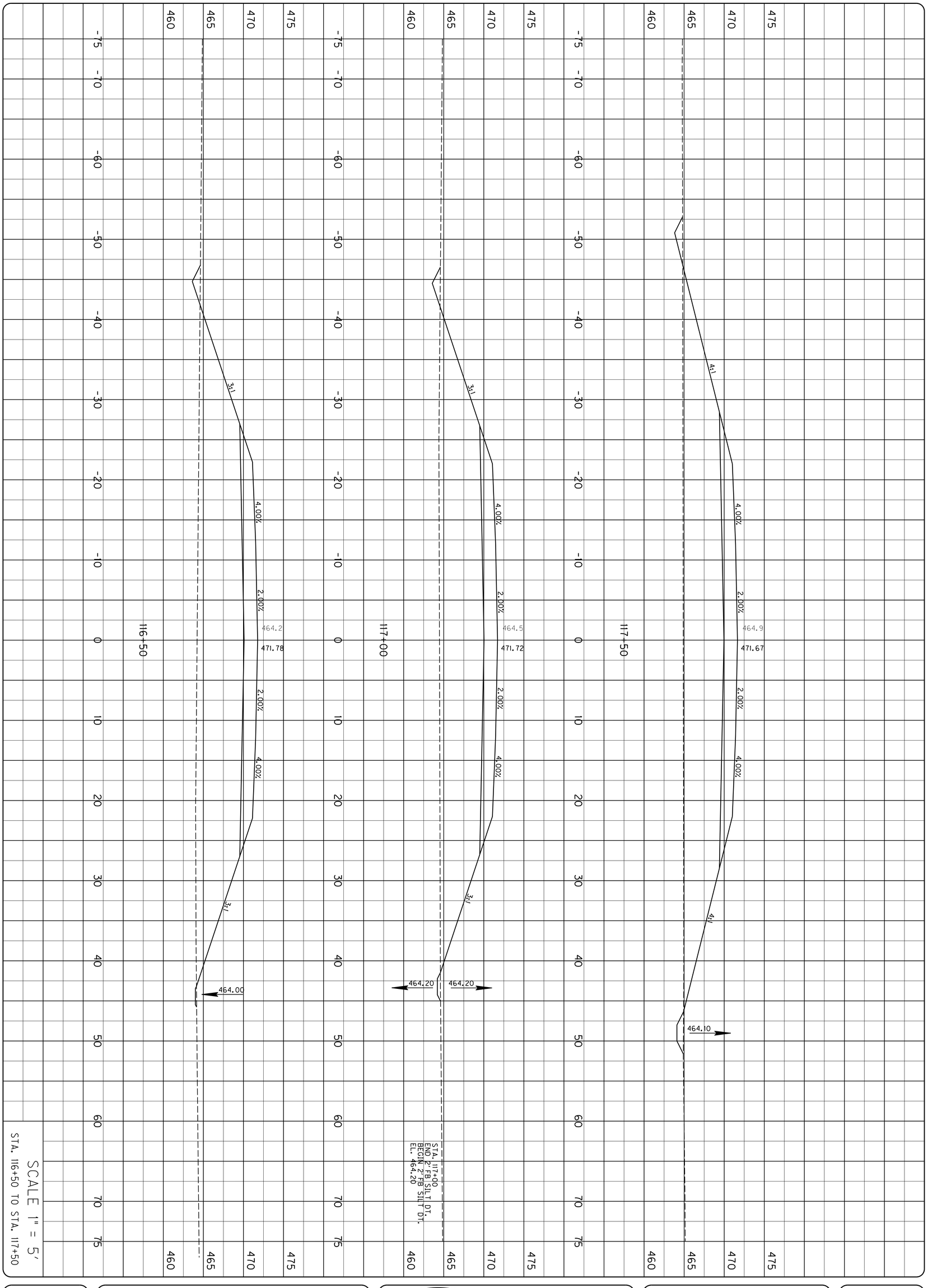

SHEET
X29

MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

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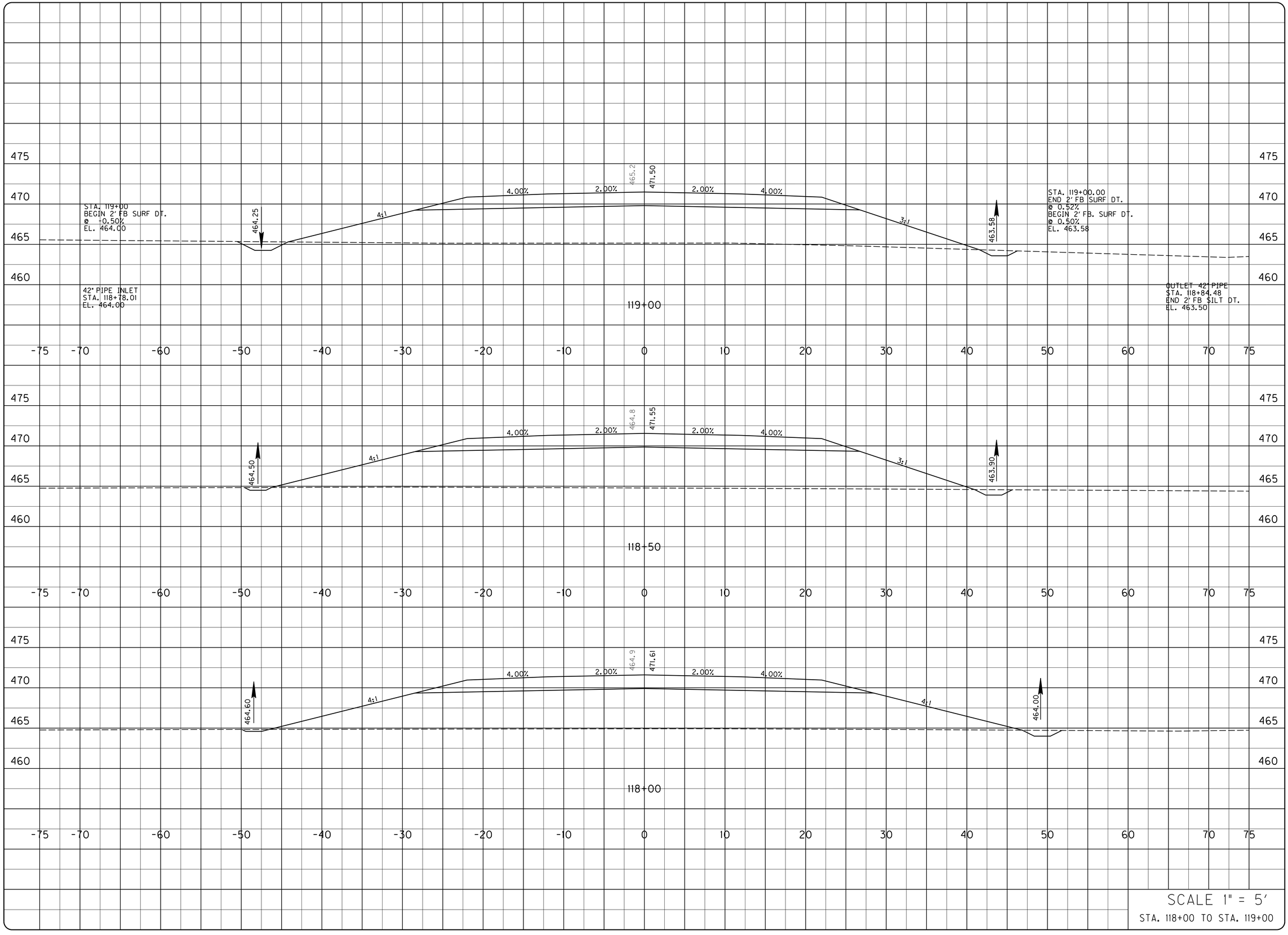

SCALE 1" = 5'

STA. 118+00 TO STA. 119+00

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1215 DIAGONAL DRIVE
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PHONE: 270.753.7207
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PADUCAH, KENTUCKY 42003
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SHEET

X30

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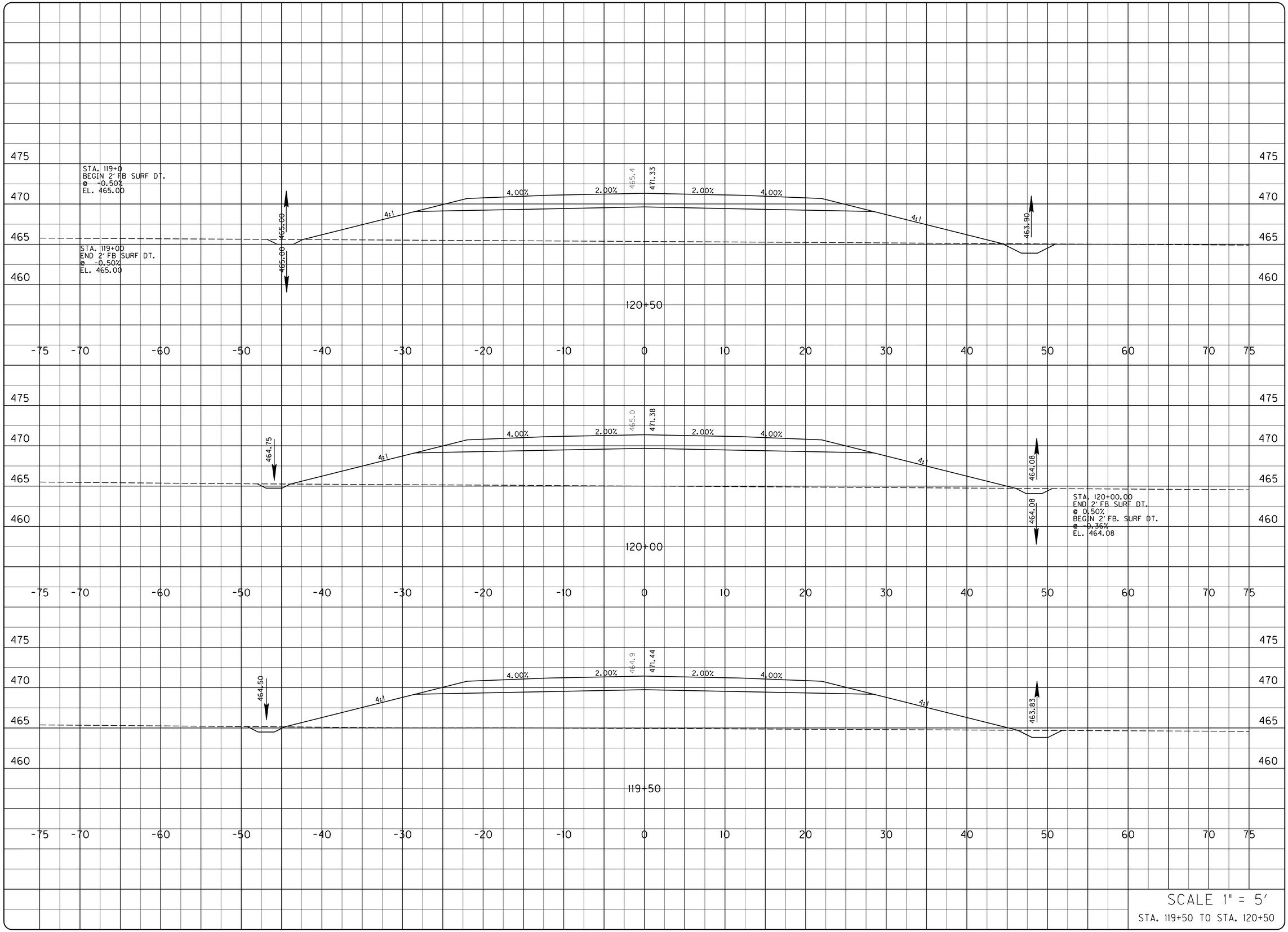

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ENGINEERING & TESTING, INC.
201 SOUTH 7TH STREET
LOUISVILLE, KENTUCKY 40202
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MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
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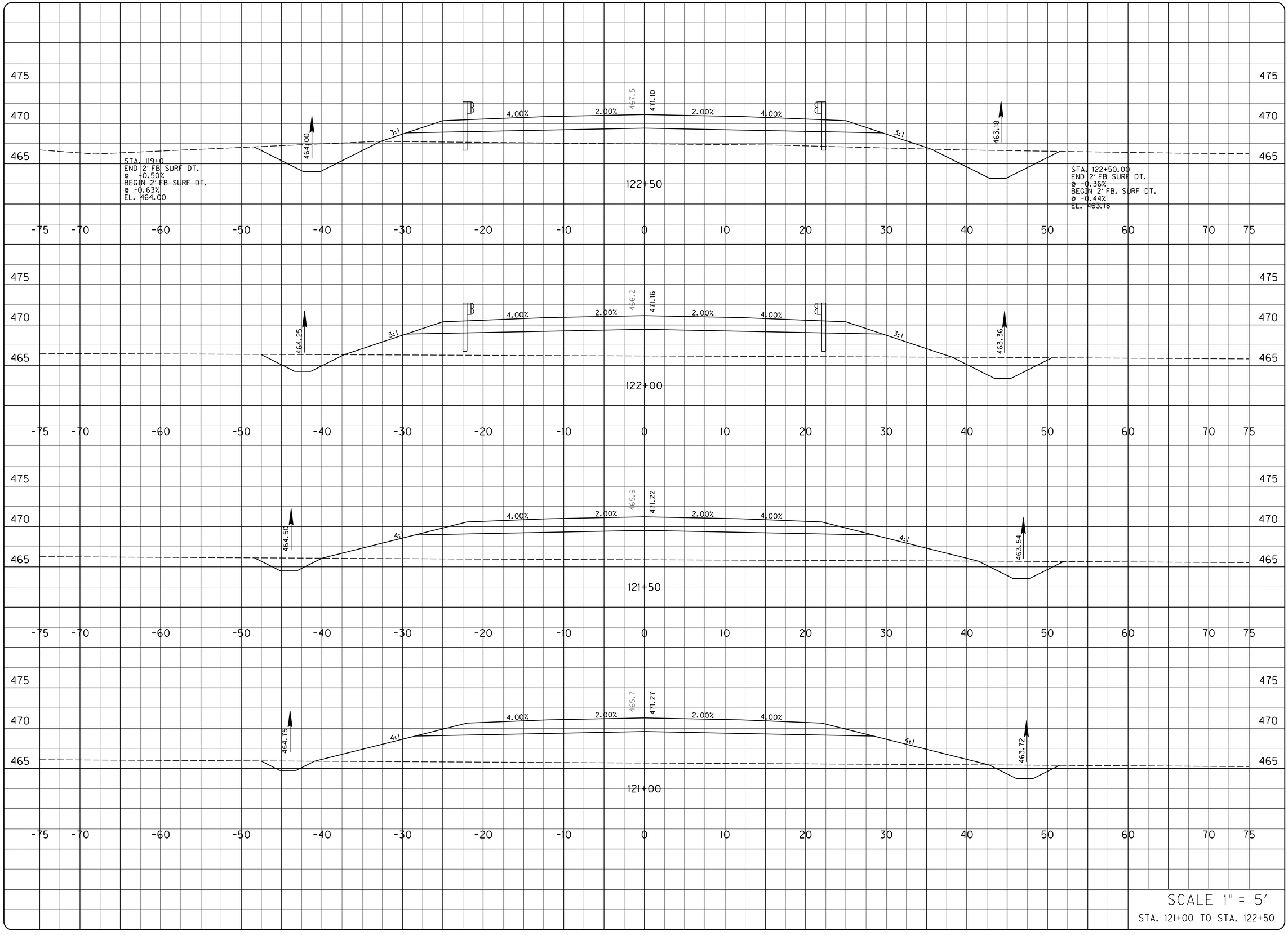
SHEET
X31



SCALE 1" = 5'

STA. 121+00 TO STA. 122+50

PROJECT NO.: 05093

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500 SOUTH 7TH STREET
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SHEET

X32

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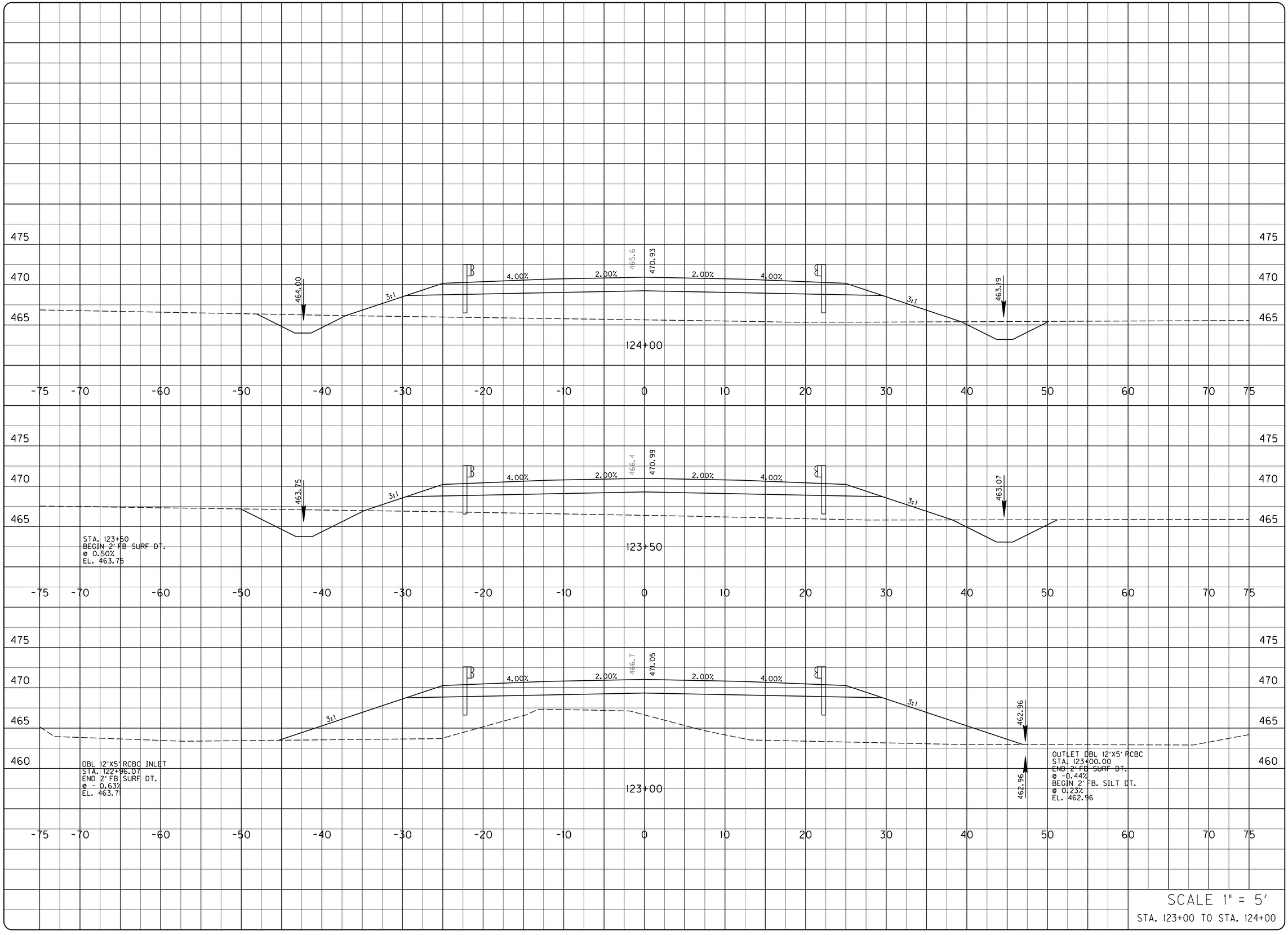

SCALE 1" = 5'

STA. 123+00 TO STA. 124+00

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PHONE - 270.753.7307
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SHEET
X33

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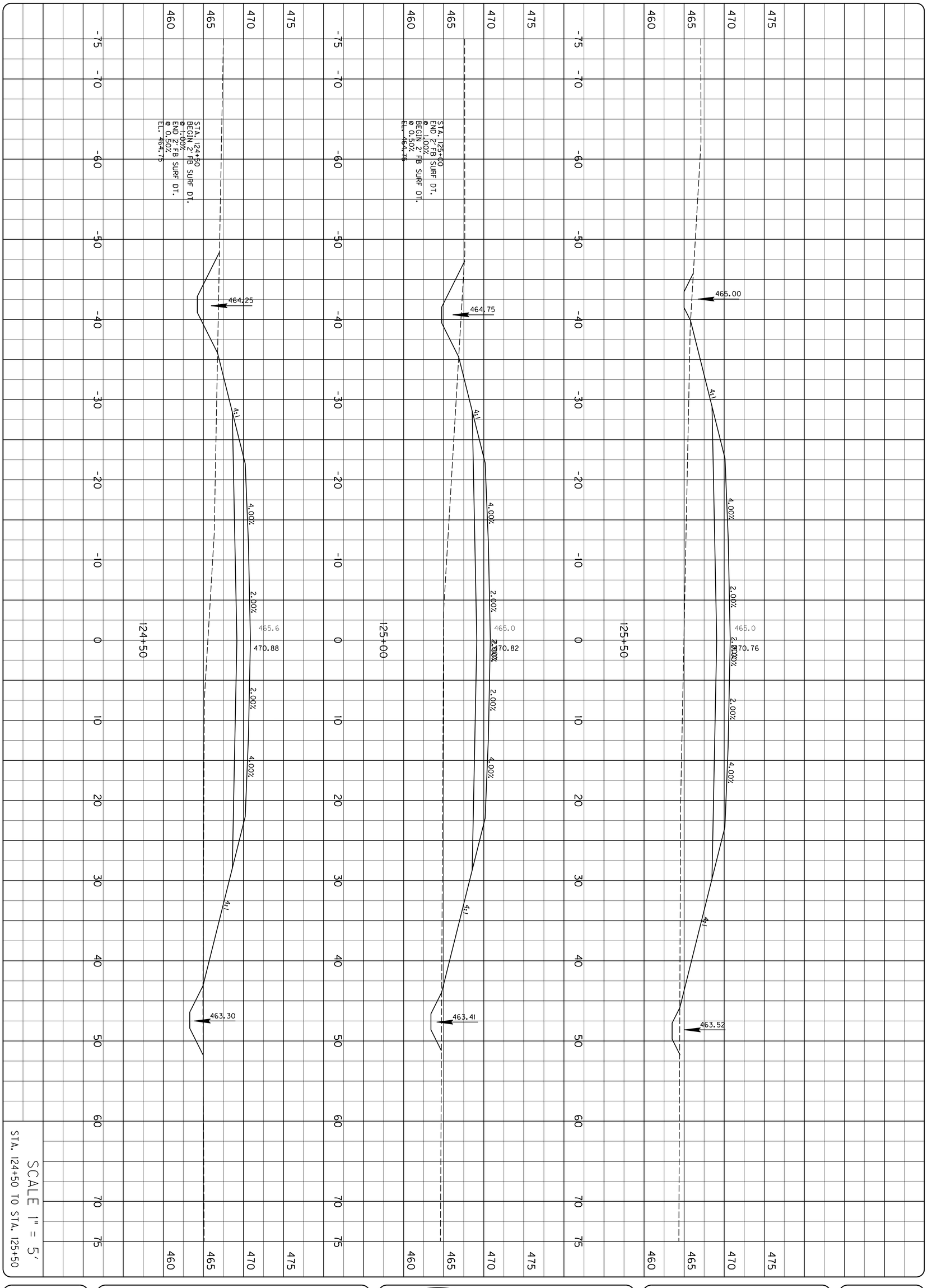

SCALE 1" = 5'

STA. 124+50 TO STA. 125+50

SHEET X34

MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

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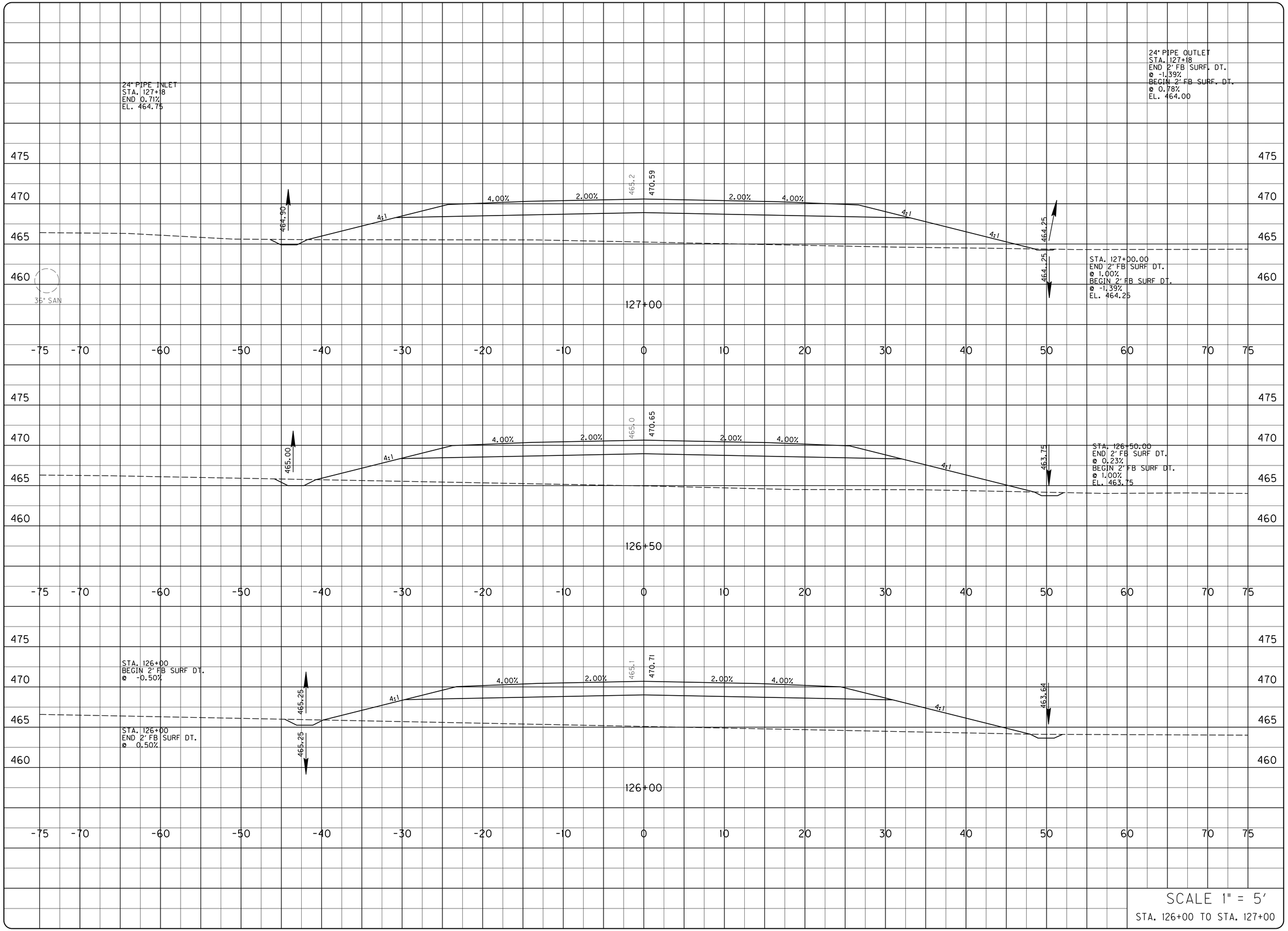

DATE :

PROJECT NO. : 05093

DRAWING BY :

REVISION DATES :

REVISION NOTES :

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

100 SOUTH 7TH STREET
LOUISVILLE, KENTUCKY 40202-2273
PHONE - 502.540.8300

401 KENTUCKY STREET
PADUCAH, KENTUCKY 42003
PHONE - 270.443.5995

151 DUCKS CREEK DRIVE
MURRAY, KENTUCKY 42071
PHONE - 270.753.7307

BFW

WWW.BFWENGINEERS.COM

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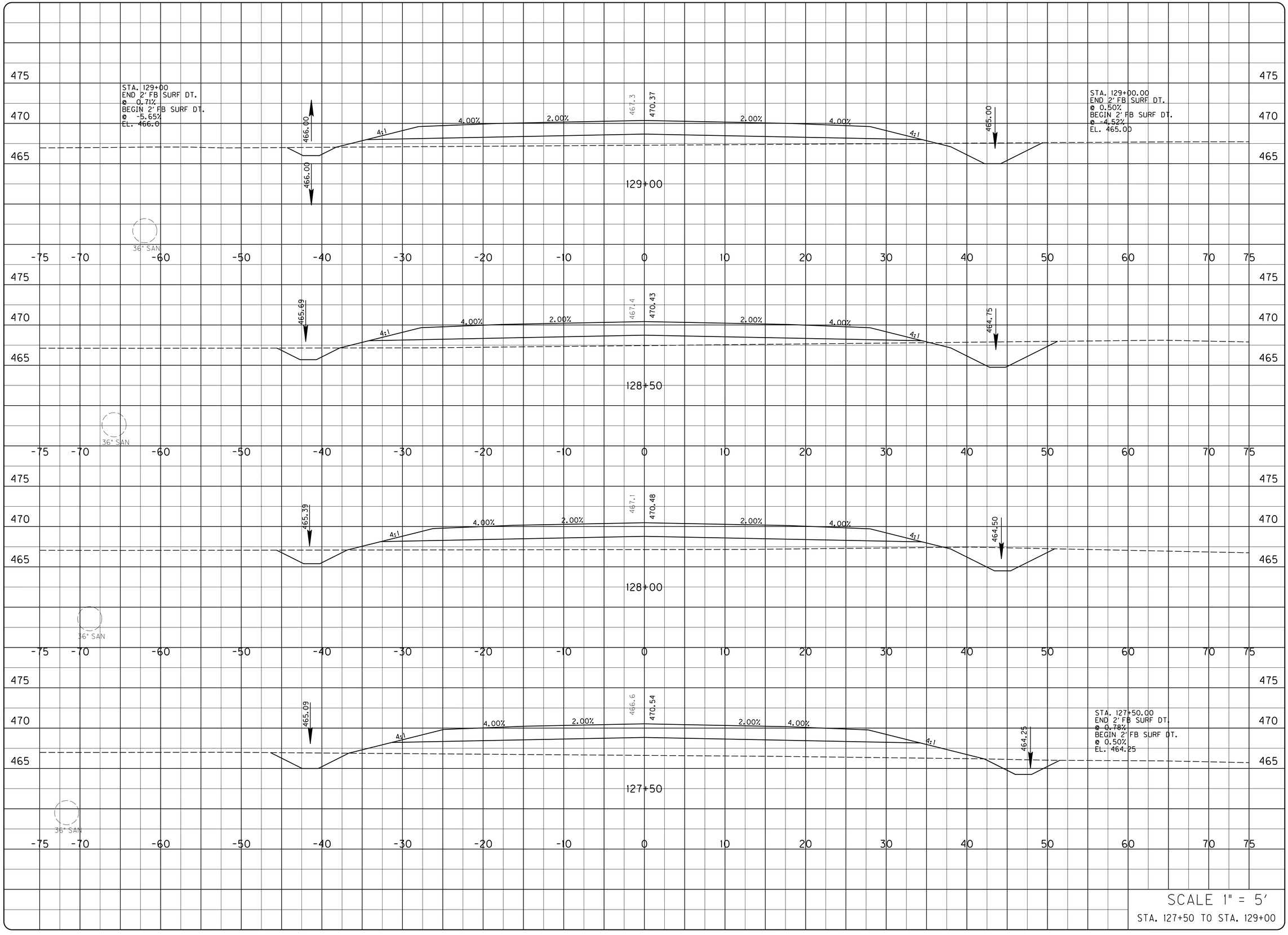
MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET

X35



SCALE 1" = 5'

STA. 127+50 TO STA. 129+00

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PROJECT NO.: 05093

DATE:

DRAWING BY:

REVISION DATES:

REVISION NOTES:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DUGUID DRIVE
MURRAY, KENTUCKY 42071
PHONE - 270.753.7307
500 SOUTH 7TH STREET
PADUCAH, KENTUCKY 42003
PHONE - 270.443.1995
400 NORTH COURT STREET
MARION, ILLINOIS 62959
PHONE - 618.997.5190
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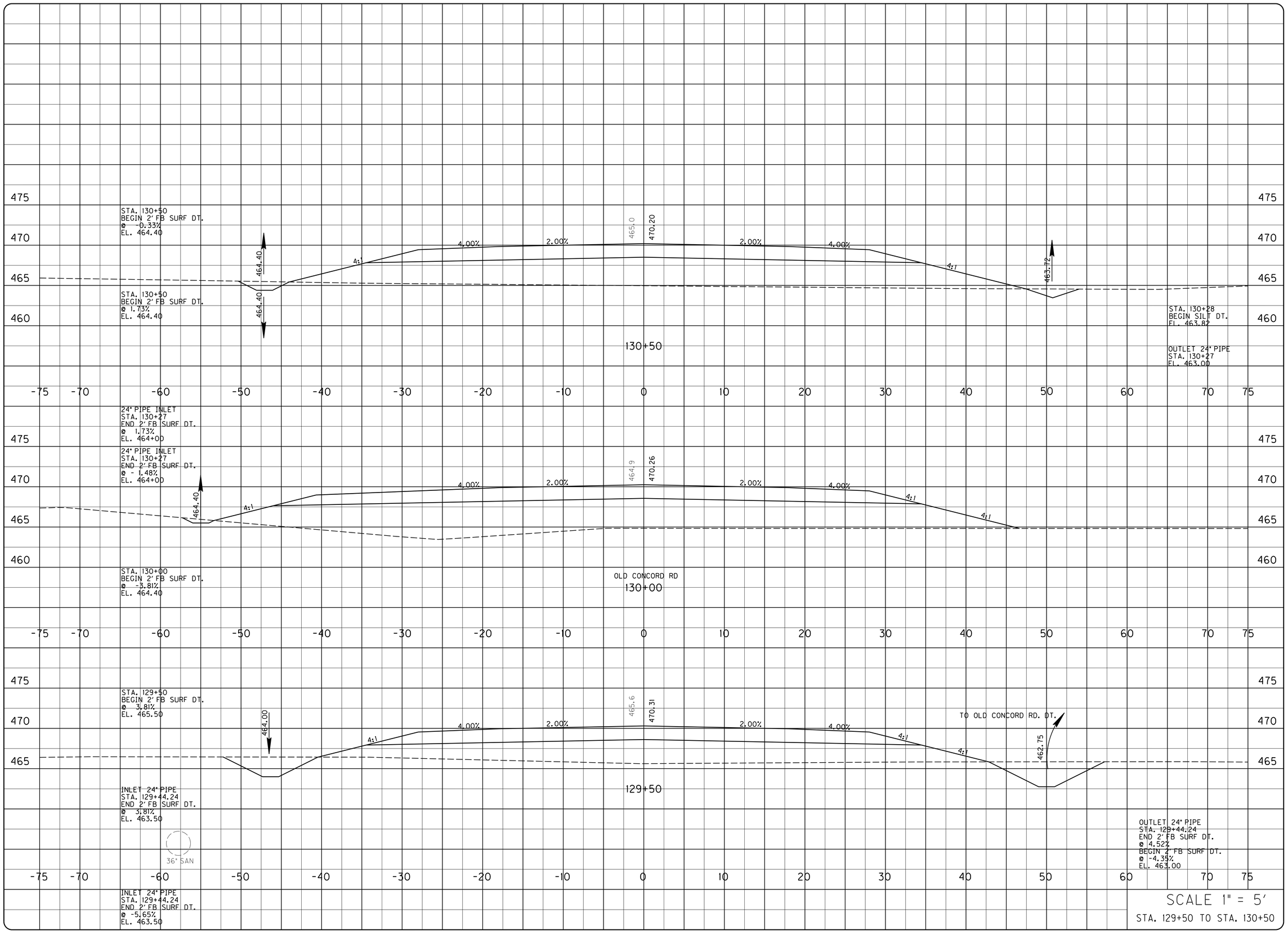
MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
X36



SCALE 1" = 5'

STA. 129+50 TO STA. 130+50

PROJECT NO.: 05093 DATE:

DRAWING BY:

REVISION DATES:

REVISION NOTES:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

BFW

MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
X37

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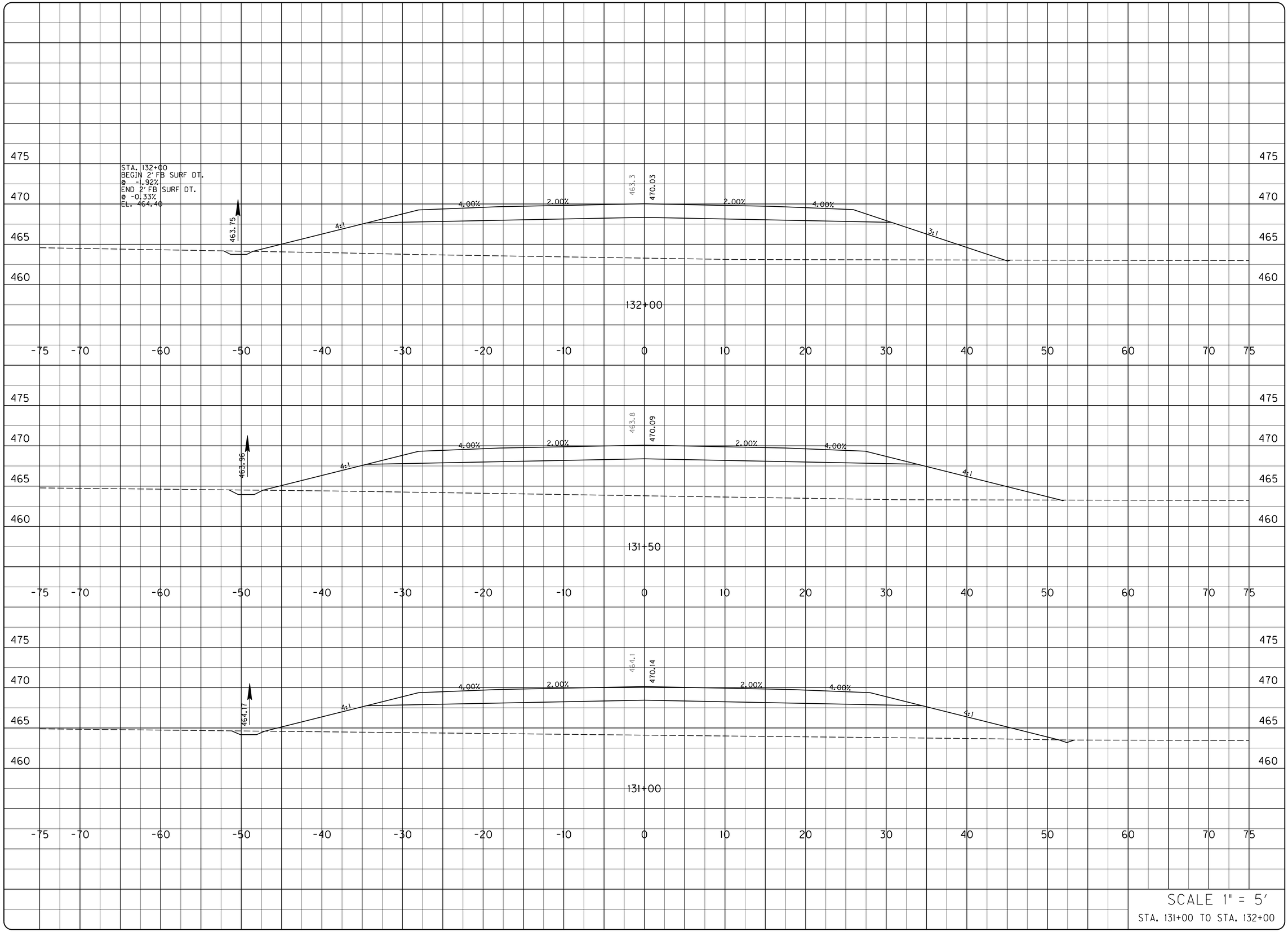

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PROJECT NO.: 05093
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REVISION NOTES:

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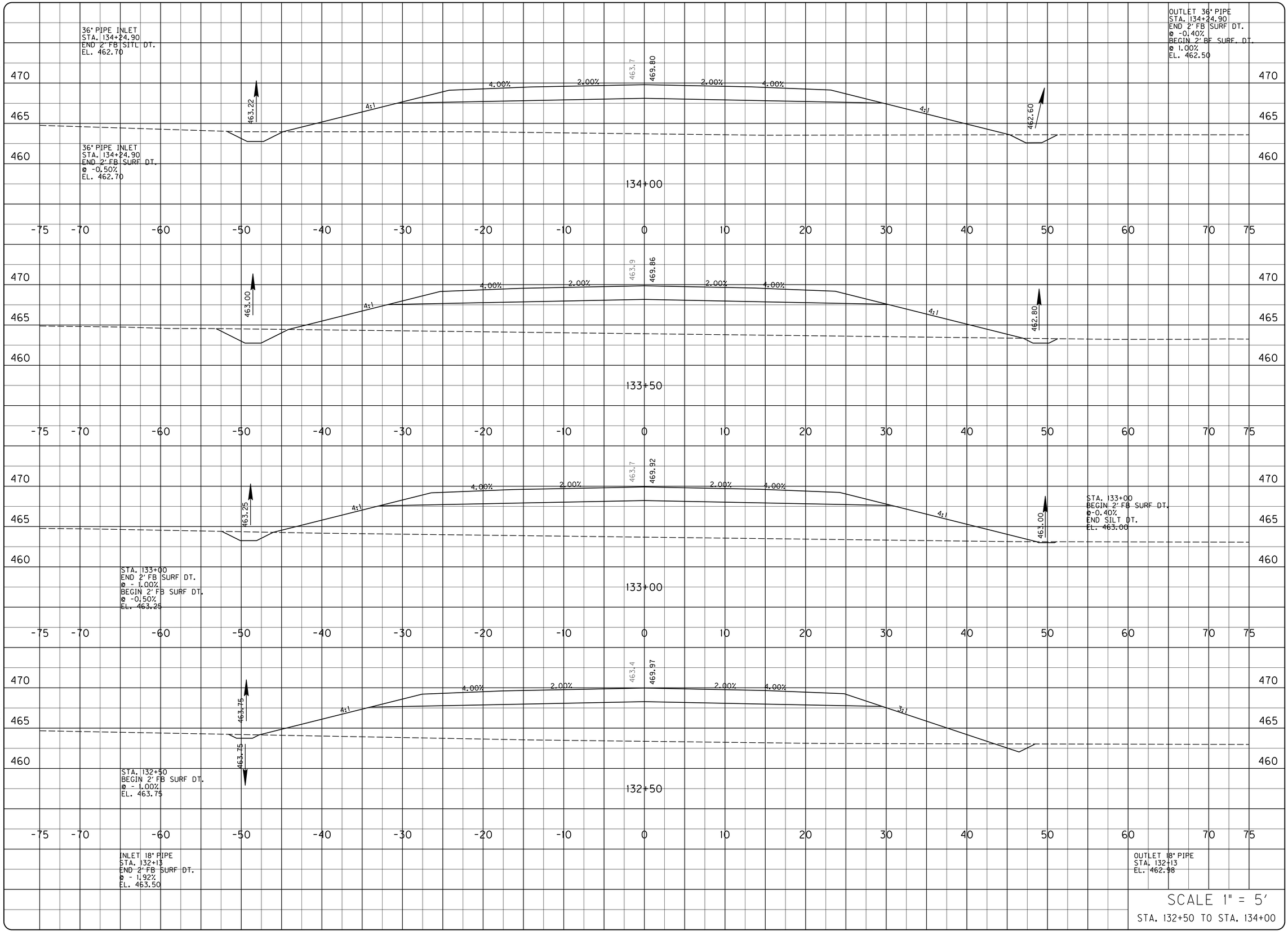
MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
X38



SCALE 1" = 5'

STA. 132+50 TO STA. 134+00

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PROJECT NO.: 05093

DATE:

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REVISION DATES:

REVISION NOTES:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DUGUID DRIVE
MURRAY, KENTUCKY 42071
PHONE - 270.753.7307
500 SOUTH 7TH STREET
PADUCAH, KENTUCKY 42003
PHONE - 270.443.1995
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MARION, ILLINOIS 62959
PHONE - 618.997.9190
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MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
X39

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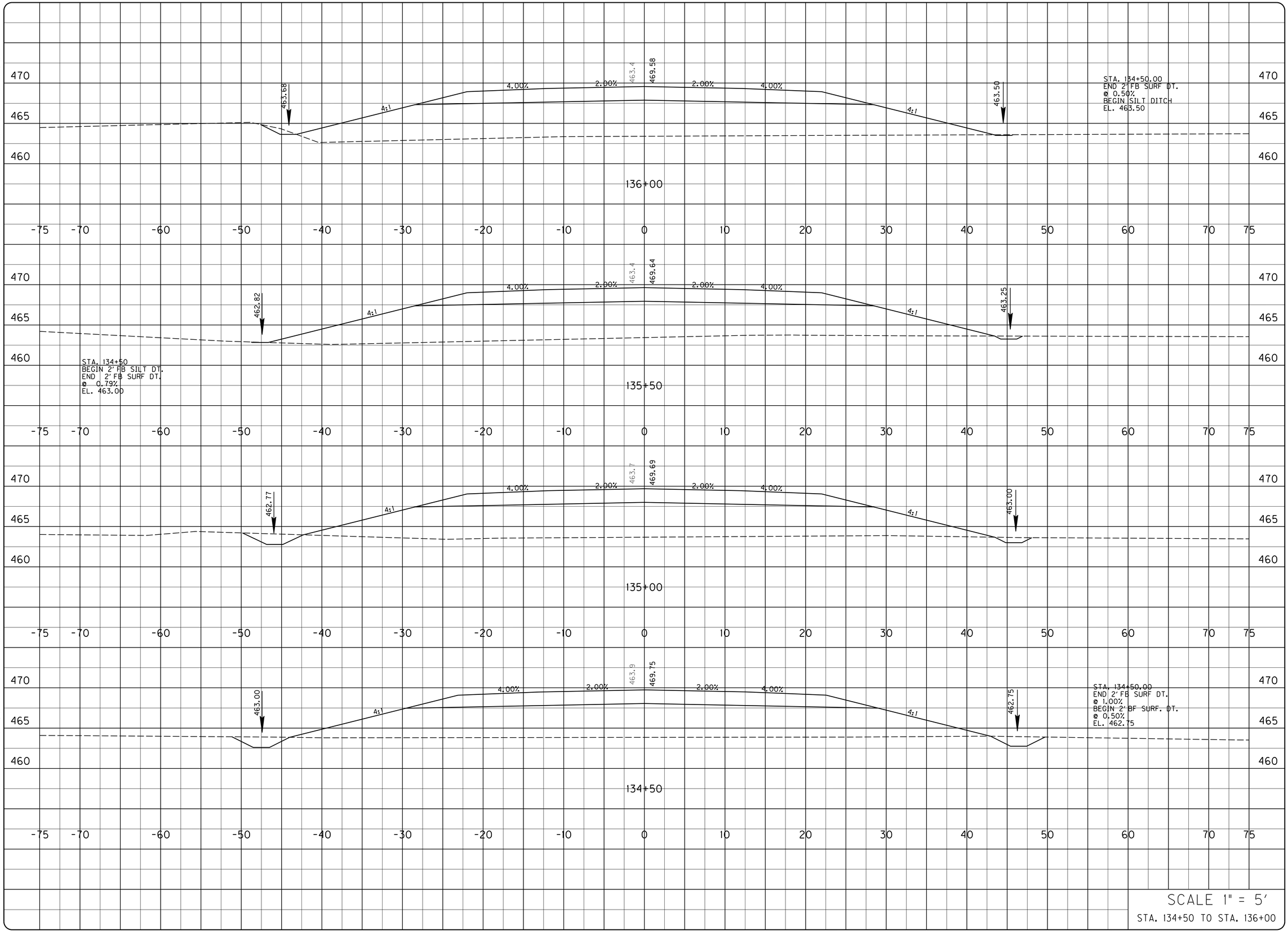

SCALE 1" = 5'

STA. 134+50 TO STA. 136+00

PROJECT NO.: 05093

DATE:

DRAWING BY :

REVISION DATES :

REVISION NOTES :

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
151 DUDLEY DRIVE
LEXINGTON, KENTUCKY 40503
PHONE - 270.753.7307
400 NORTH COURT STREET
PADUCAH, KENTUCKY 42001
PHONE - 270.443.1995
BFW
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MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
X40

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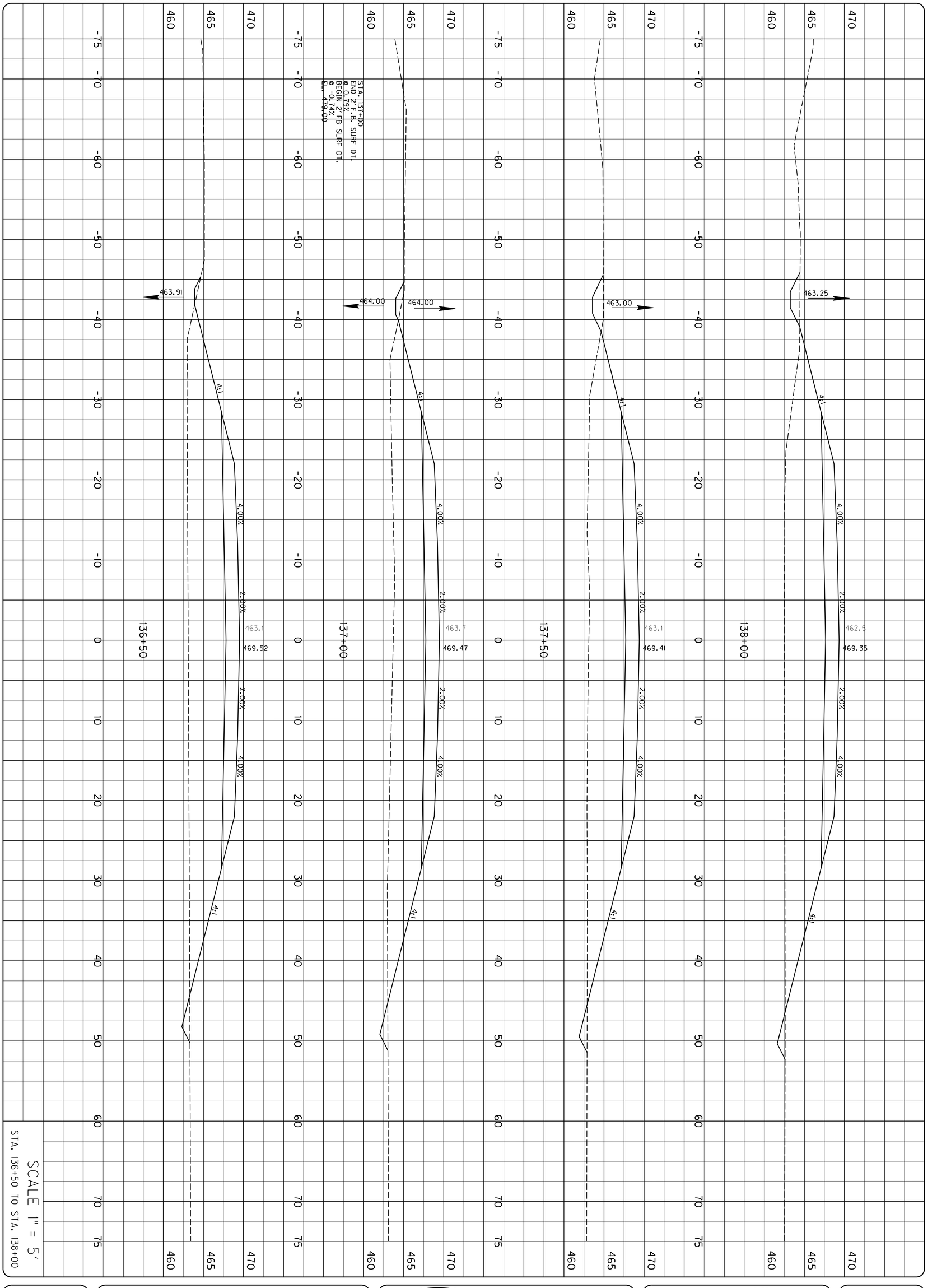

SCALE 1" = 5'
STA. 136+50 TO STA. 138+00

SHEET
X41

MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

BFW
BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DILGUID DRIVE
MURRAY, KENTUCKY 42071
PHONE - 270.753.7307
500 SOUTH 17th STREET
PADUCAH, KENTUCKY 42003
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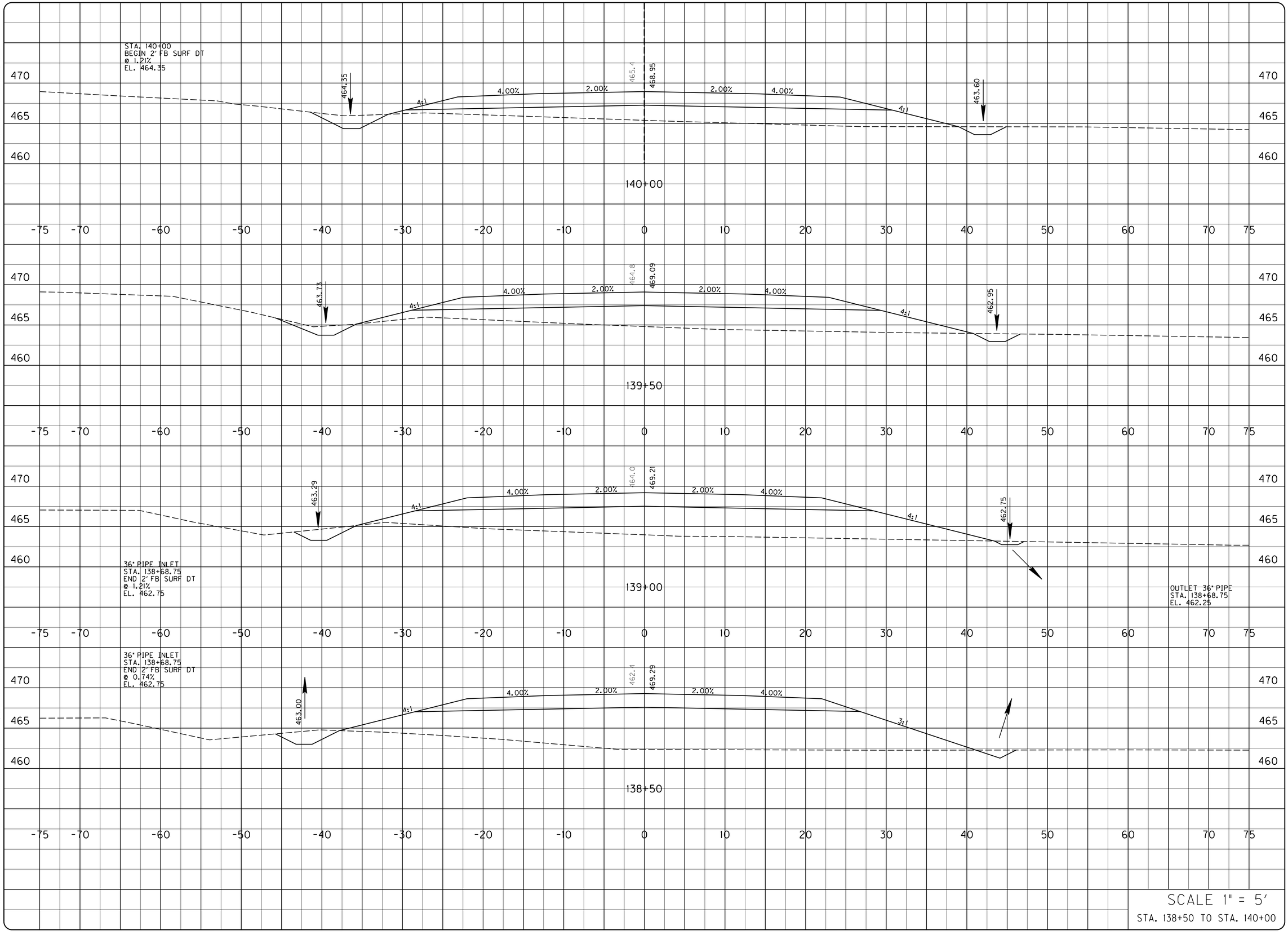

SCALE 1" = 5'

STA. 138+50 TO STA. 140+00

PROJECT NO.: 05093
DRAWING BY :
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REVISION NOTES :
DATE :

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ENGINEERING & TESTING, INC.
151 DUDLEY DRIVE
LEXINGTON, KENTUCKY 40503
PHONE - 270.753.7307
400 NORTH COURT STREET
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PHONE - 615.995.9190
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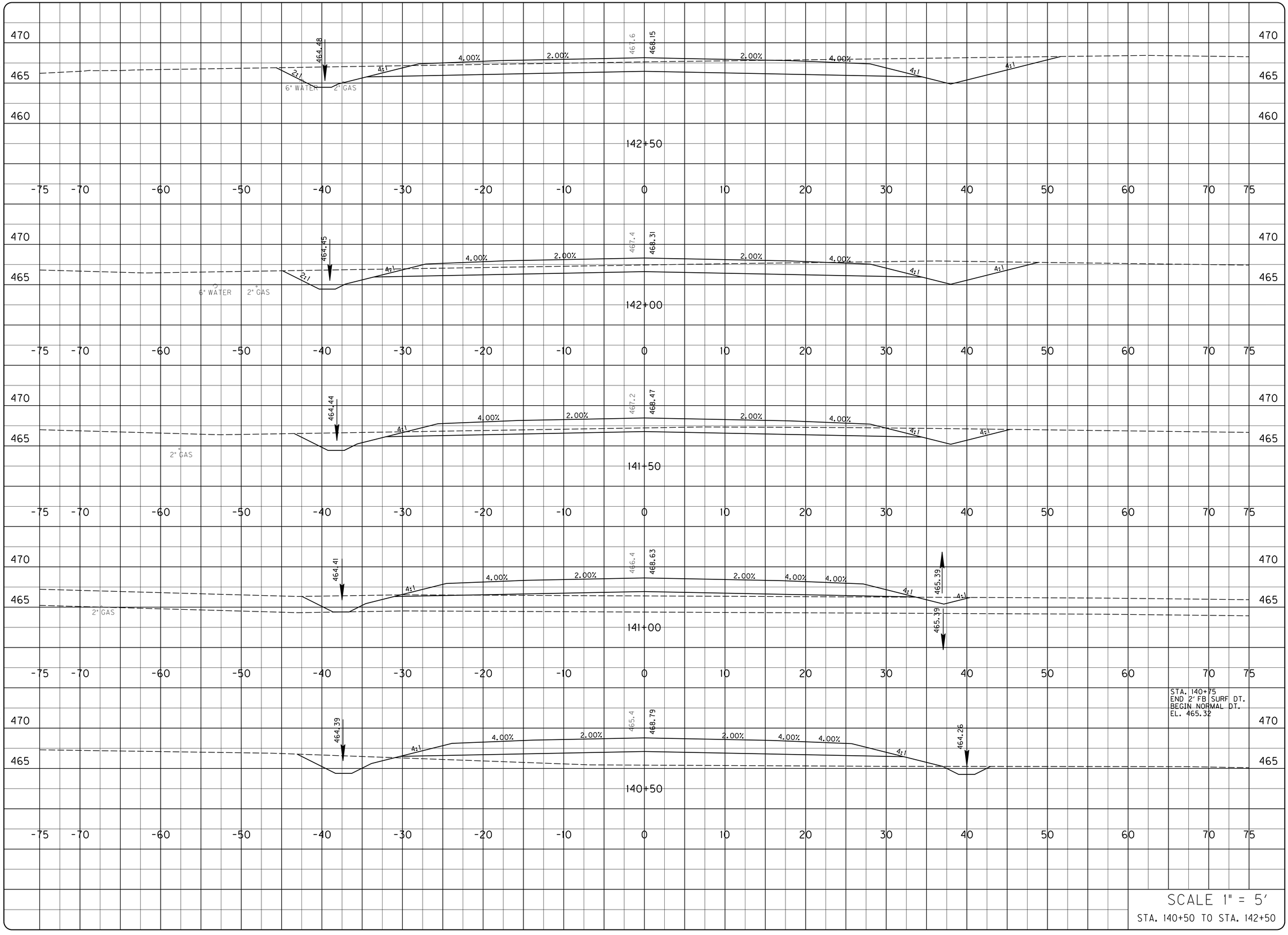
MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
X42



SCALE 1" = 5'

STA. 140+50 TO STA. 142+50

PROJECT NO.: 05093

DATE:

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MAINLINE - CROSS SECTIONS

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SHEET

X43

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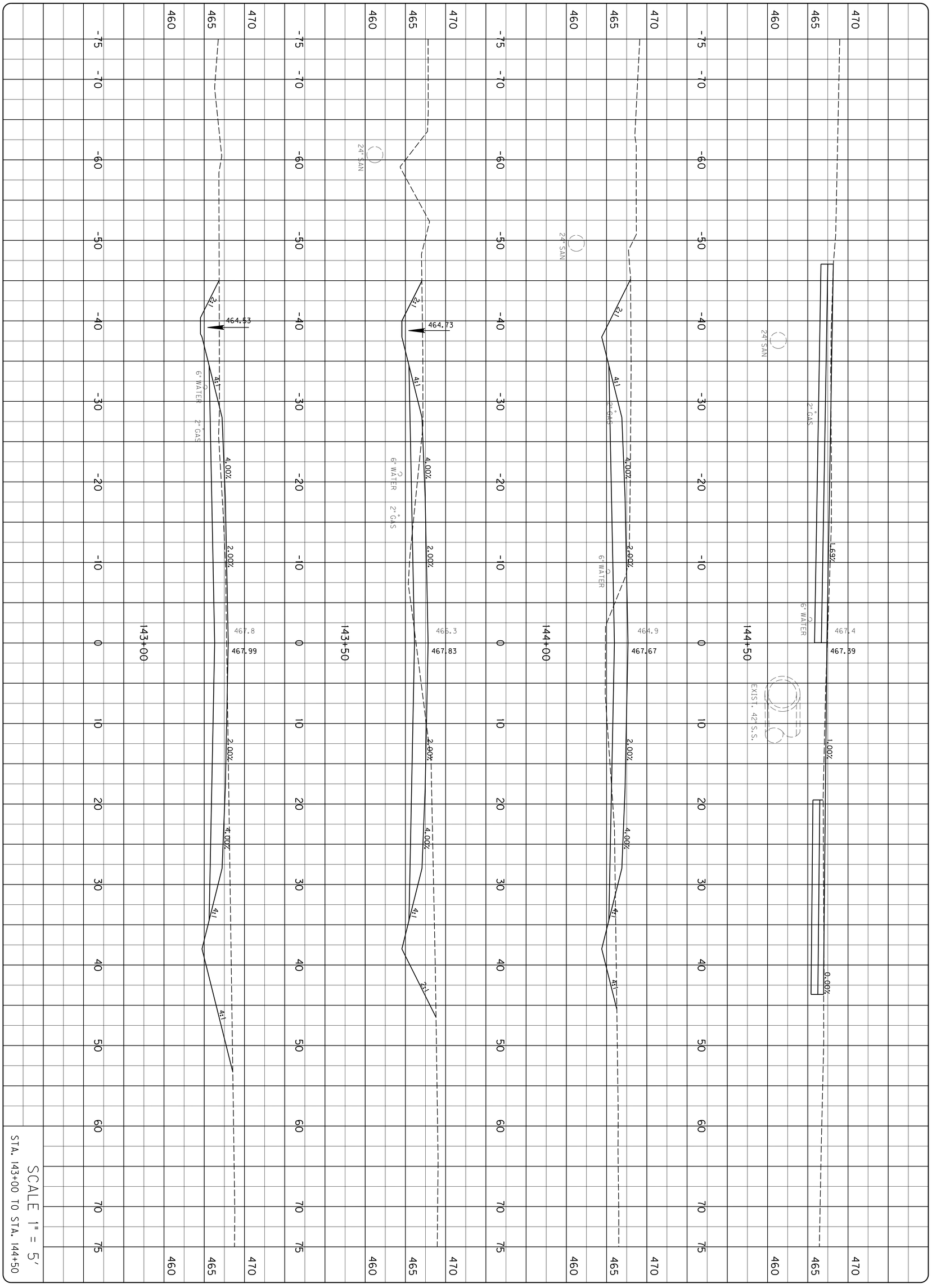

SHEET X44

MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

BFW
BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DILGUID DRIVE, MURRAY, KENTUCKY 42071, PHONE - 270.753.7307
500 SOUTH 17th STREET, PADUCAH, KENTUCKY 42003, PHONE - 270.443.1999
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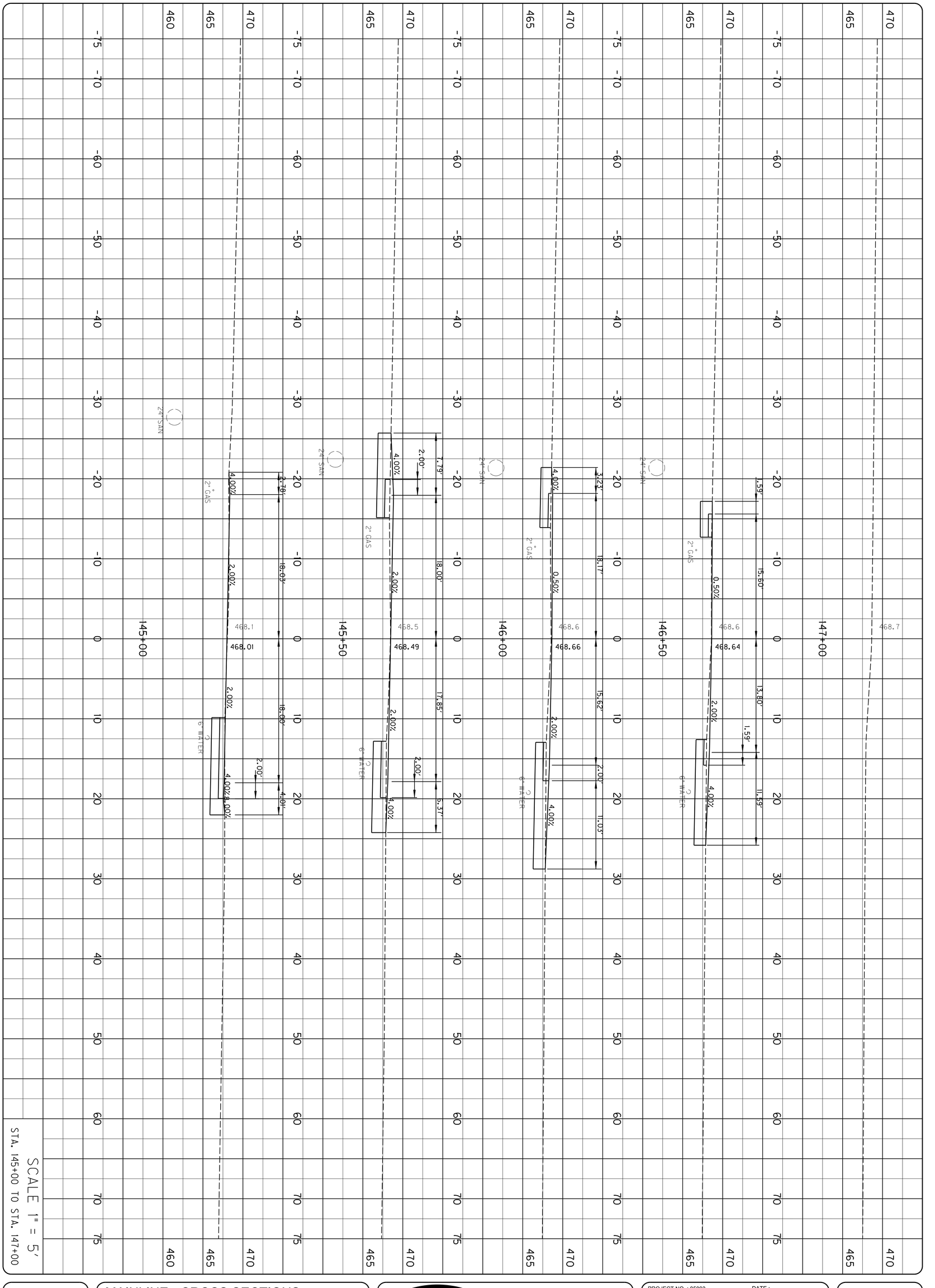

SCALE 1" = 5'
STA. 145+00 TO STA. 147+00

SHEET
X45

MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

BFW
BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DILGUID DRIVE
MURRAY, KENTUCKY 42071
PHONE - 270.753.7307
500 SOUTH 17th STREET
PADUCAH, KENTUCKY 42003
PHONE - 270.443.1999
403 NORTH COURT STREET
MARION, ILLINOIS 62959
PHONE - 618.997.3190
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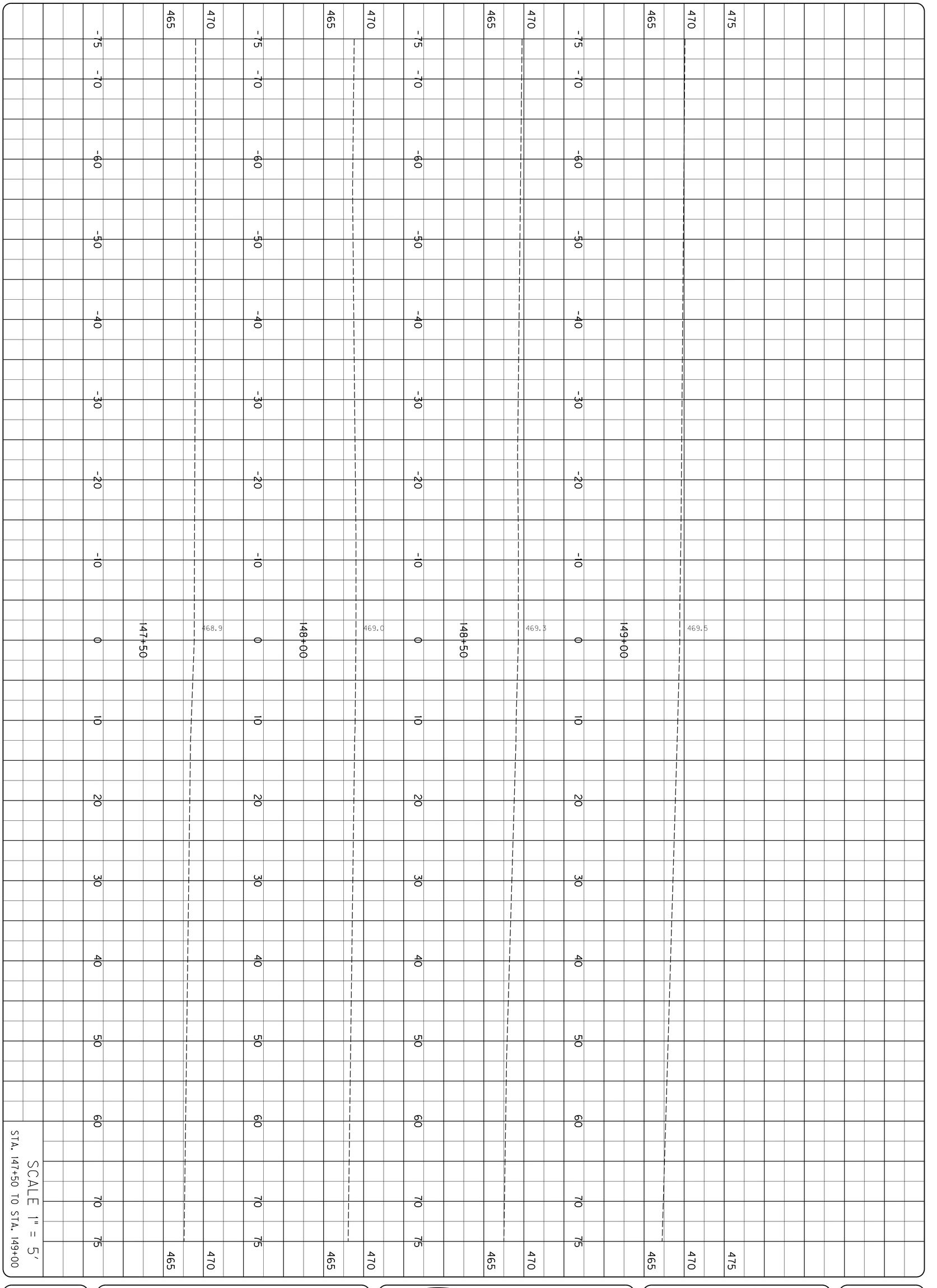

SHEET X46

MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

BFW
BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DILGUID DRIVE, MURRAY, KENTUCKY 42071 • PHONE - 270.753.7307
500 SOUTH 17th STREET, PADUCAH, KENTUCKY 42003 • PHONE - 270.443.1395
403 NORTH COURT STREET, MARION, ILLINOIS 62959 • PHONE - 618.997.3190
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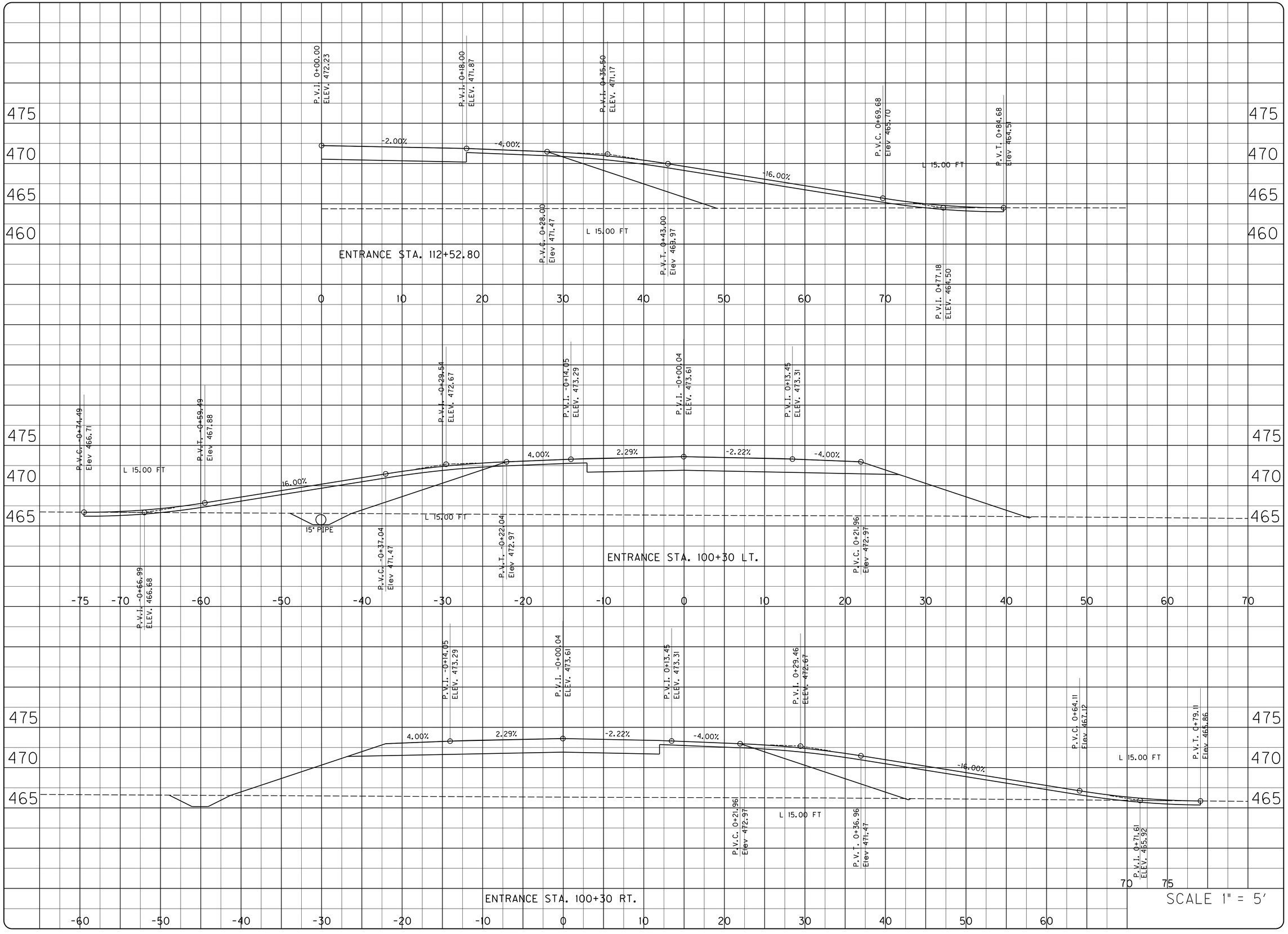
PROJECT NO. : 05093 DATE :
DRAWING BY :
REVISION DATES :
REVISION NOTES :



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PROJECT NO.: 05093 DATE: 4/2009
DRAWING BY:
REVISION DATES:
REVISION NOTES:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
BFW
1215 DAVIDSON DRIVE
MURRAY, KENTUCKY 42071
PHONE: 270.753.7207
500 SOUTH 7TH STREET
PADUCAH, KENTUCKY 42003
PHONE: 270.443.1995
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MARION, ILLINOIS 62959
PHONE: 618.997.2190
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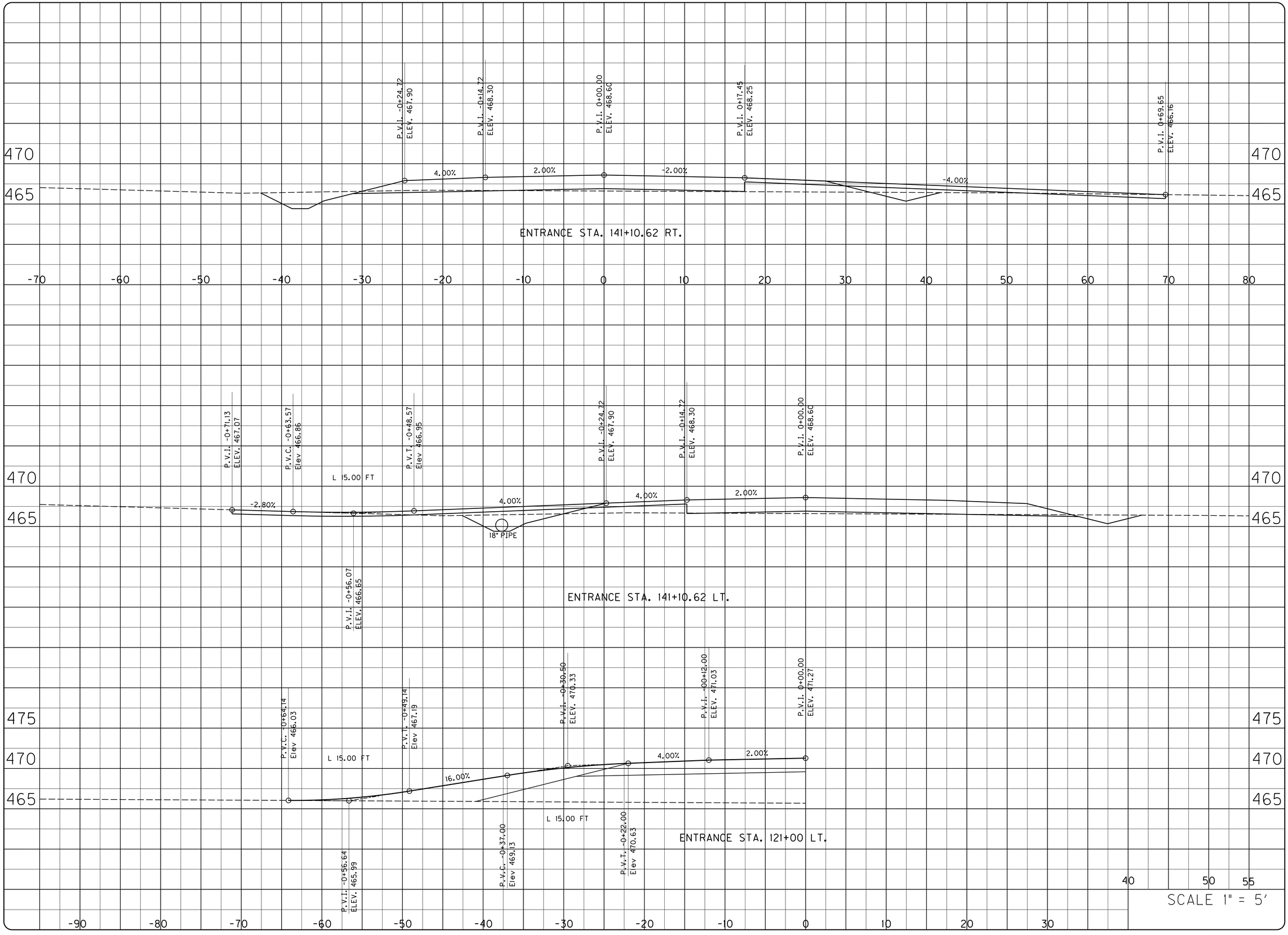
MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
X47



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PROJECT NO.: 05093 DATE: 4/2009
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REVISION DATES:
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BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

BFW
1215 DIAGONAL DRIVE
MURRAY, KENTUCKY 42071
PHONE - 270.753.7307
500 SOUTH 7TH STREET
PADUCAH, KENTUCKY 42003
PHONE - 270.443.1995
403 NORTH COURT STREET
MARION, ILLINOIS 62959
PHONE - 618.997.3190
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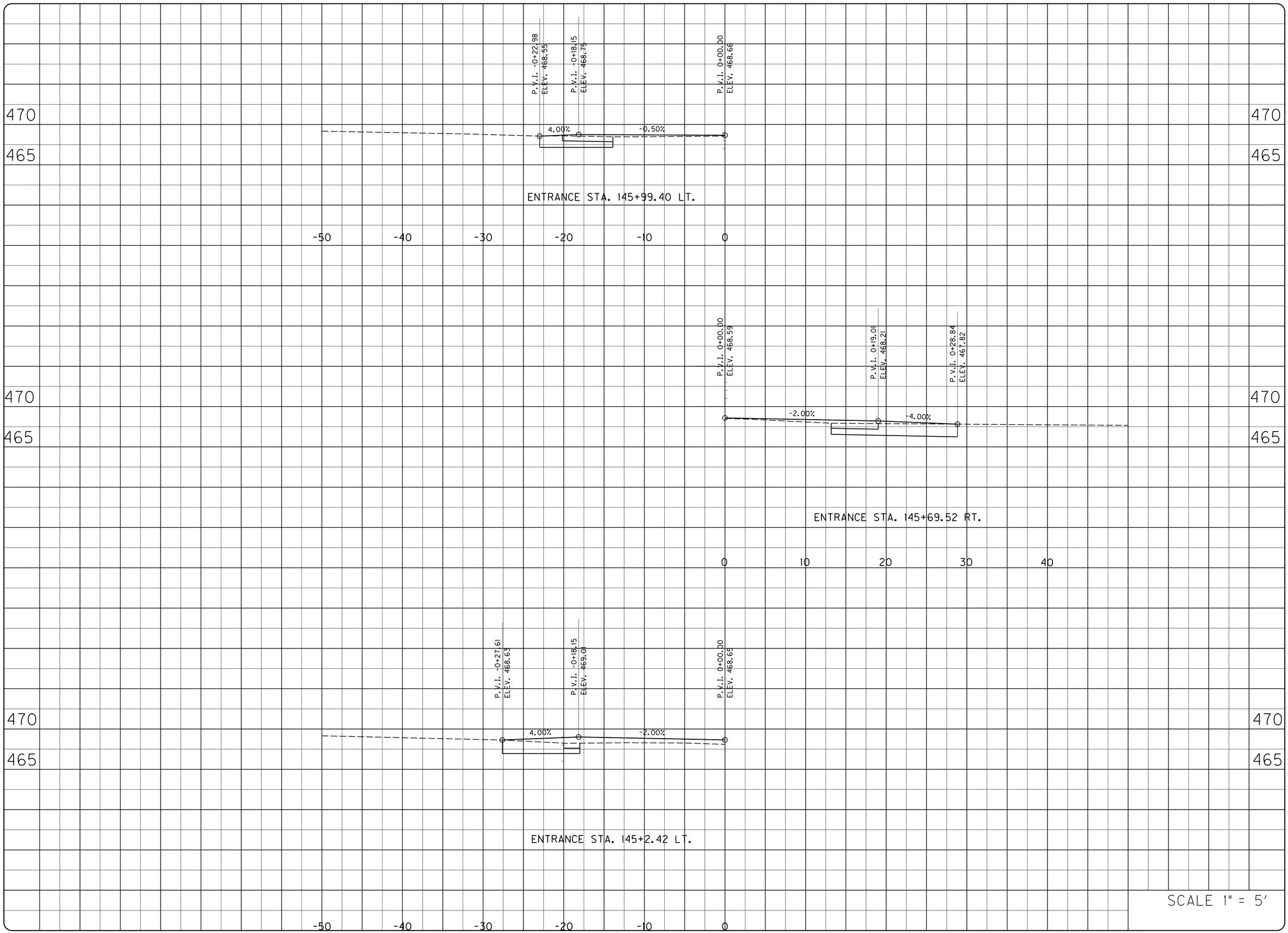
MAINLINE - ENTRANCES

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
X48



SCALE 1" = 5'

PROJECT NO.: 05093 DATE: 4/2009

DRAWING BY:

REVISION DATES:

REVISION NOTES:

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

1215 BLOUND DRIVE
MURRAY, KENTUCKY 42071
PHONE: 270.753.7307

500 SOUTH 7TH STREET
PADUCAH, KENTUCKY 42003
PHONE: 270.443.1995

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MARION, ILLINOIS 62959
PHONE: 618.997.3190

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MAINLINE - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
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MURRAY, KY 42071

SHEET
X49

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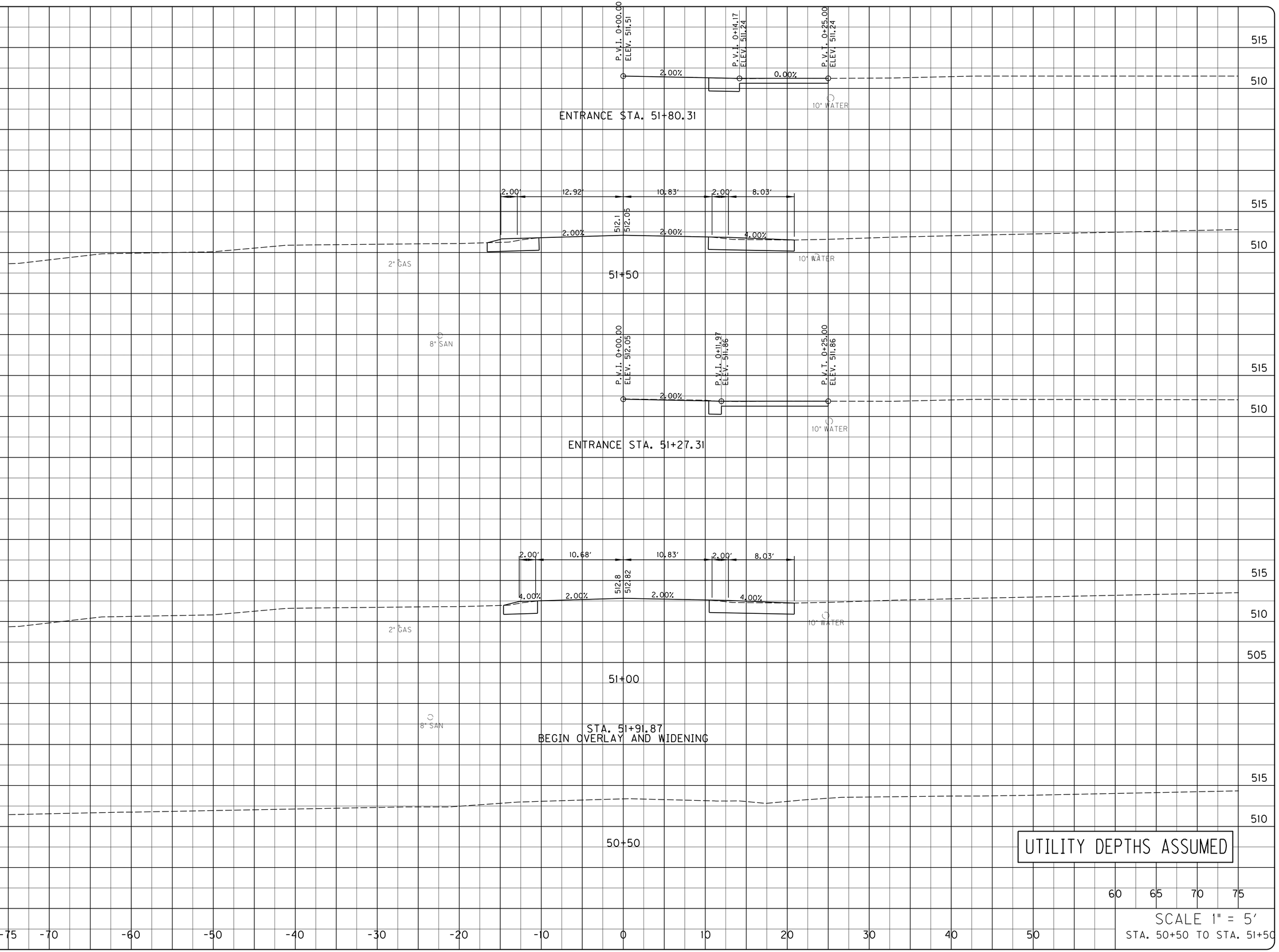

DATE:

PROJECT NO. :

DRAWING BY :

REVISION DATES :

REVISION NOTES :

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
215 DEADLOAD DRIVE
FRANKFORT, KENTUCKY 40601
PHONE: (502) 223-3027
400 SOUTH 7TH STREET
LOUISVILLE, KENTUCKY 40202
PHONE: (502) 587-3939
WWW.BFWENGINEERS.COM

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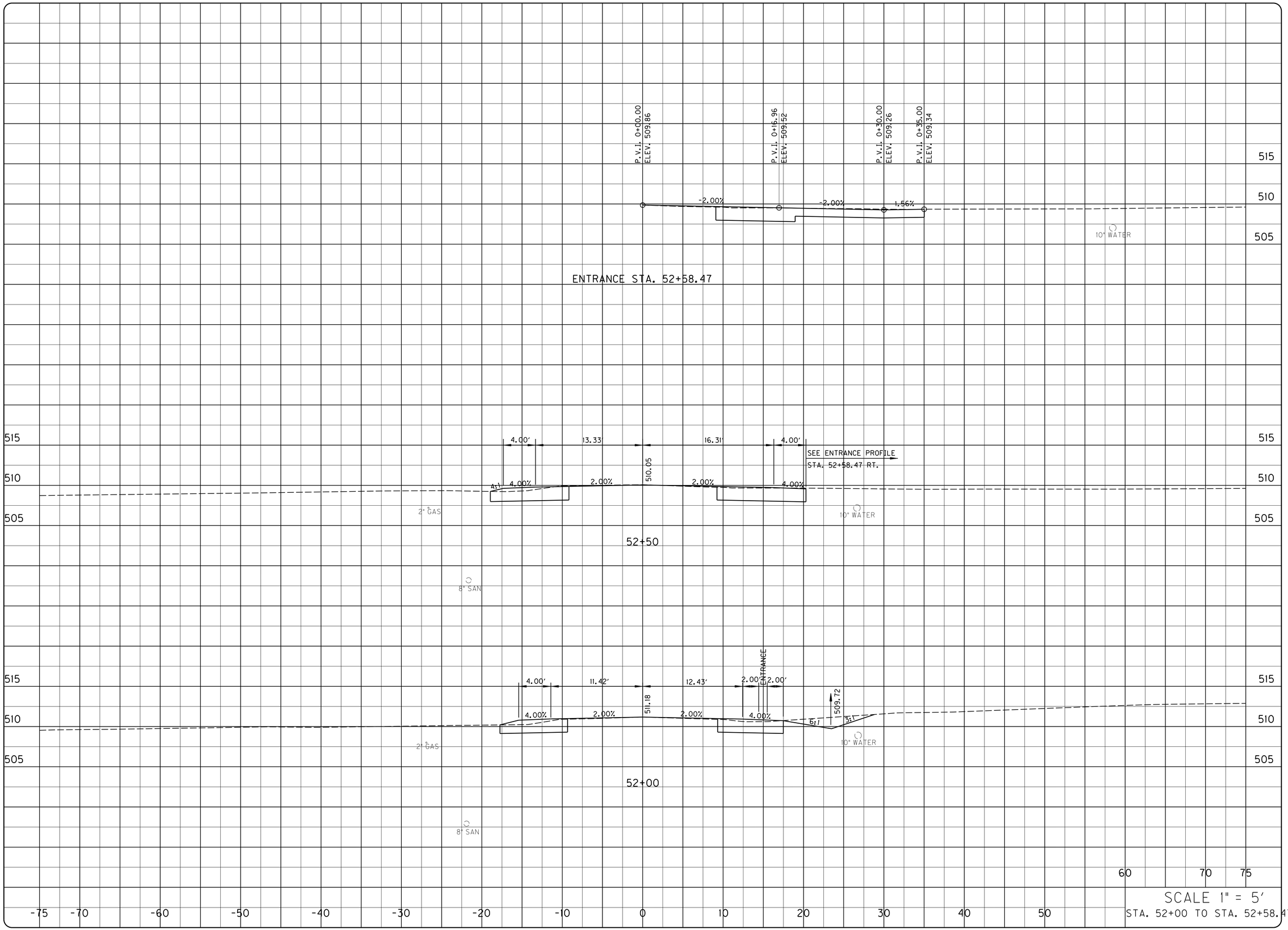
KY. 121 - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
X50



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PROJECT NO. :
DRAWING BY :
REVISION DATES :
REVISION NOTES :
DATE :

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DECKLOCK DRIVE
MURRAY, KENTUCKY 42071
PHONE: 270.753.7307
500 SOUTH 17th STREET
PADUCAH, KENTUCKY 42003
PHONE: 270.443.0951
403 NORTH COURT STREET
MARION, ILLINOIS 62959
PHONE: 618.997.3190
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KY. 121 - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
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MURRAY, KY 42071

SHEET
X51

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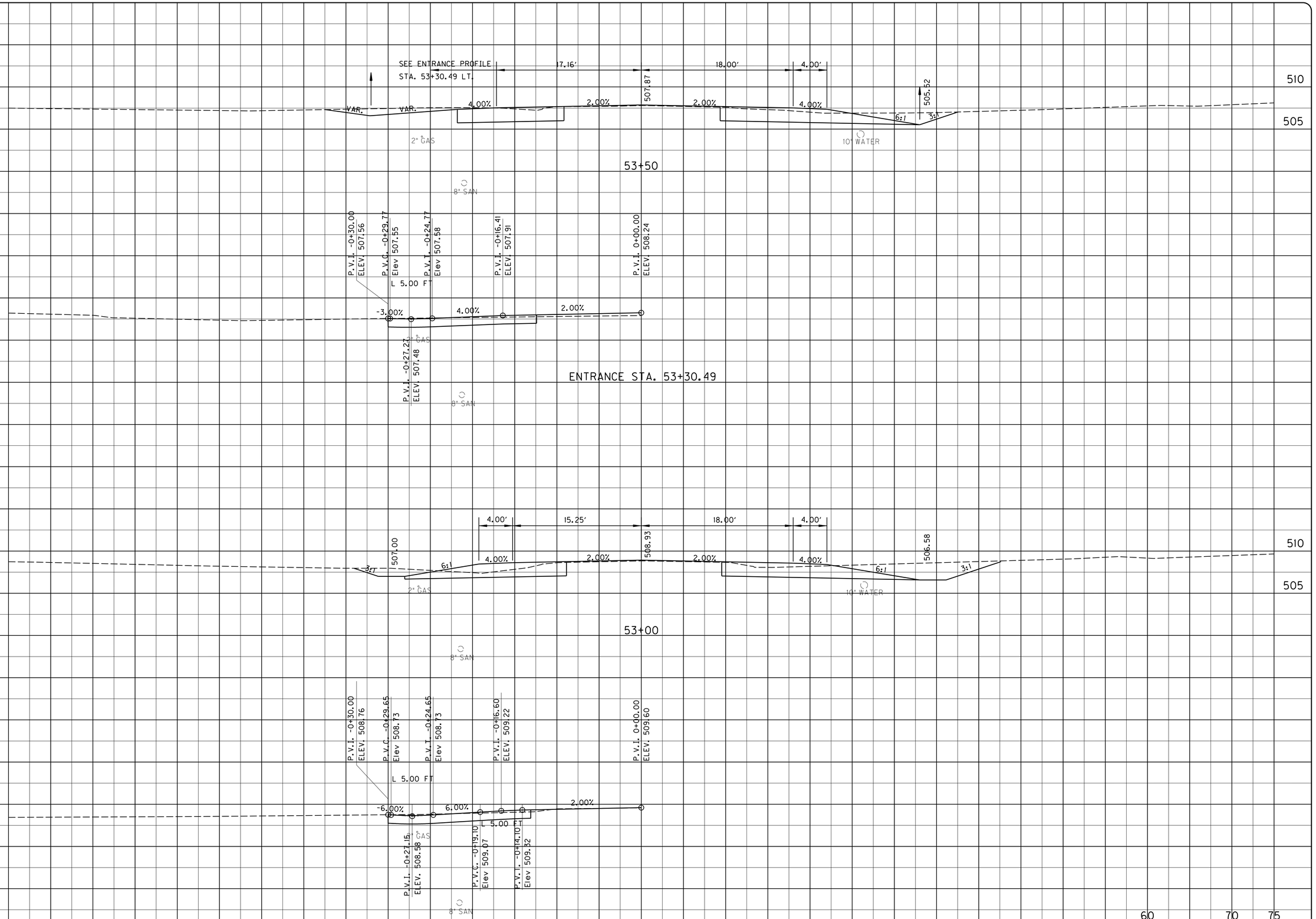

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PROJECT NO. :

DRAWING BY :

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REVISION NOTES :

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
215 LIBOLAD DRIVE
NICHOLASVILLE, KY 40371
PHONE: (859) 523-3227
400 SOUTH 7TH STREET
LOUISVILLE, KY 40202
PHONE: (502) 587-3939
WWW.BFWENGINEERS.COM

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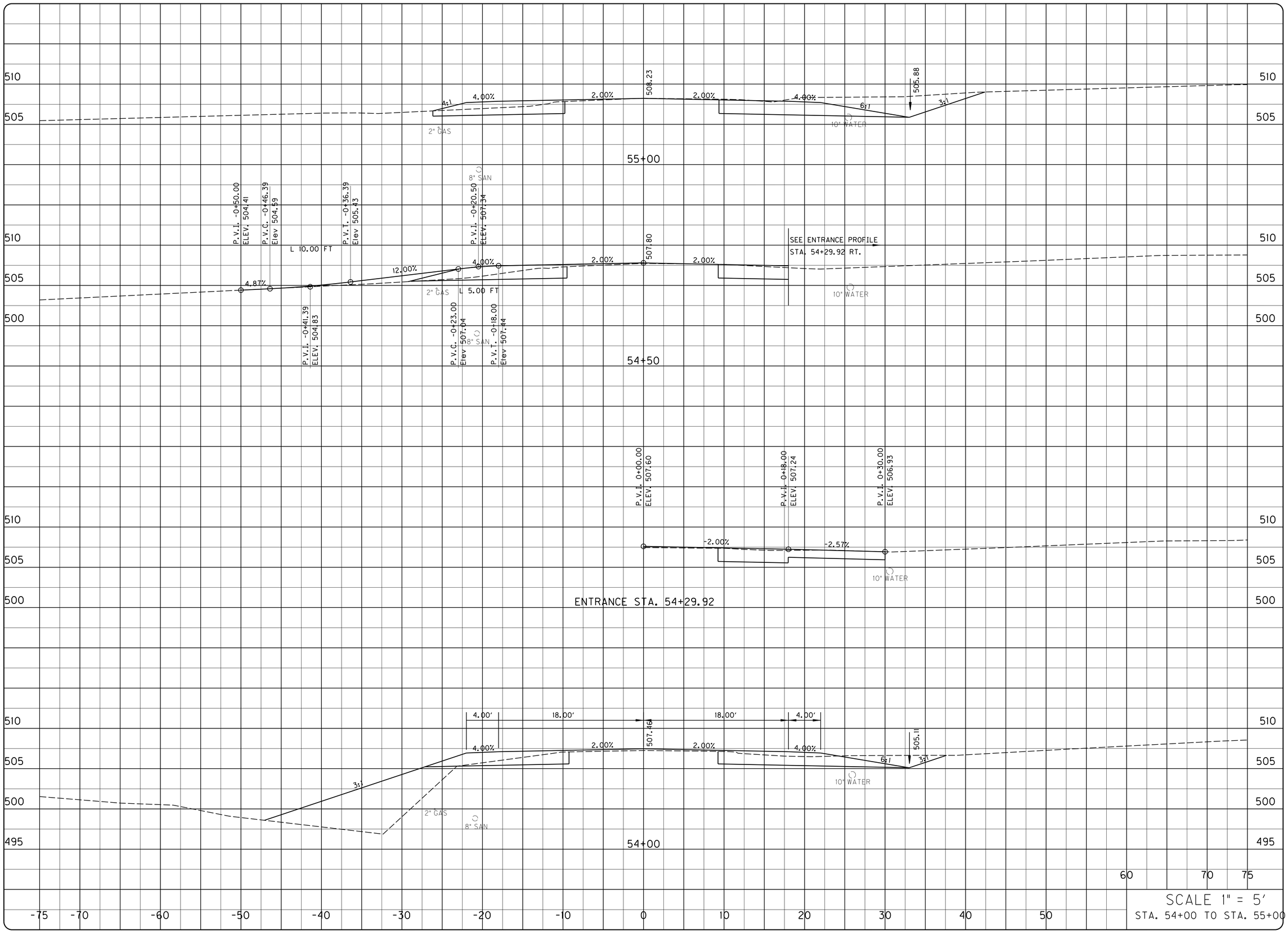
KY. 121 - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
X52



SCALE 1" = 5'

STA. 54+00 TO STA. 55+00

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BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1215 DUGGAN DRIVE
MURRAY, KENTUCKY 42071
PHONE: 270.753.7307
500 SOUTH 17th STREET
PADUCAH, KENTUCKY 42003
PHONE: 270.443.1995
403 NORTH COURT STREET
MARION, ILLINOIS 62959
PHONE: 618.997.7190
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KY. 121 - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
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MURRAY, KY 42071

SHEET
X53

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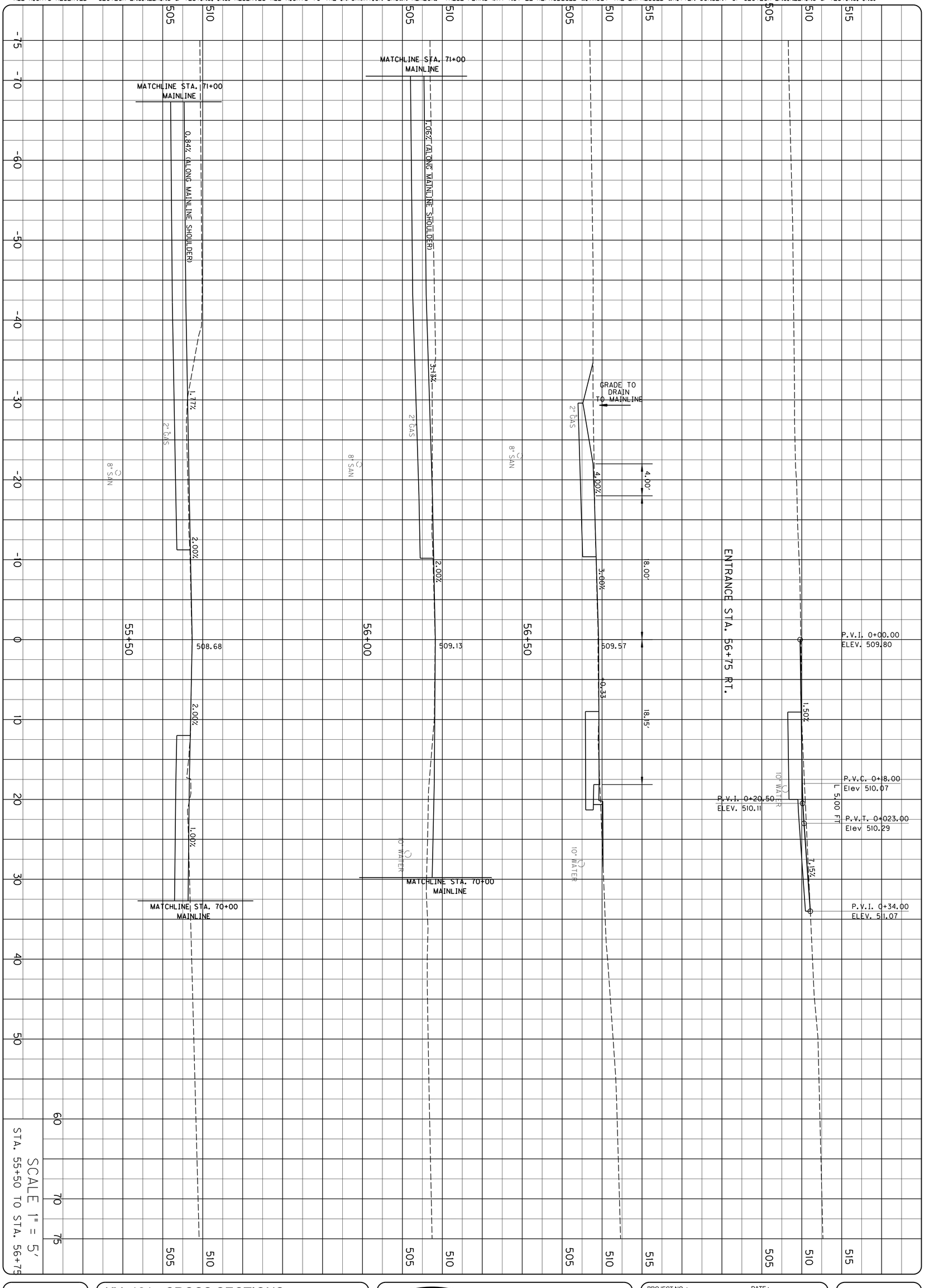

SHEET
X54

KY. 121 - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

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BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
1241 DUGAN DRIVE
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PHONE: (270) 753-7307
500 SOUTH 17th STREET
PADUCAH, KENTUCKY 42003
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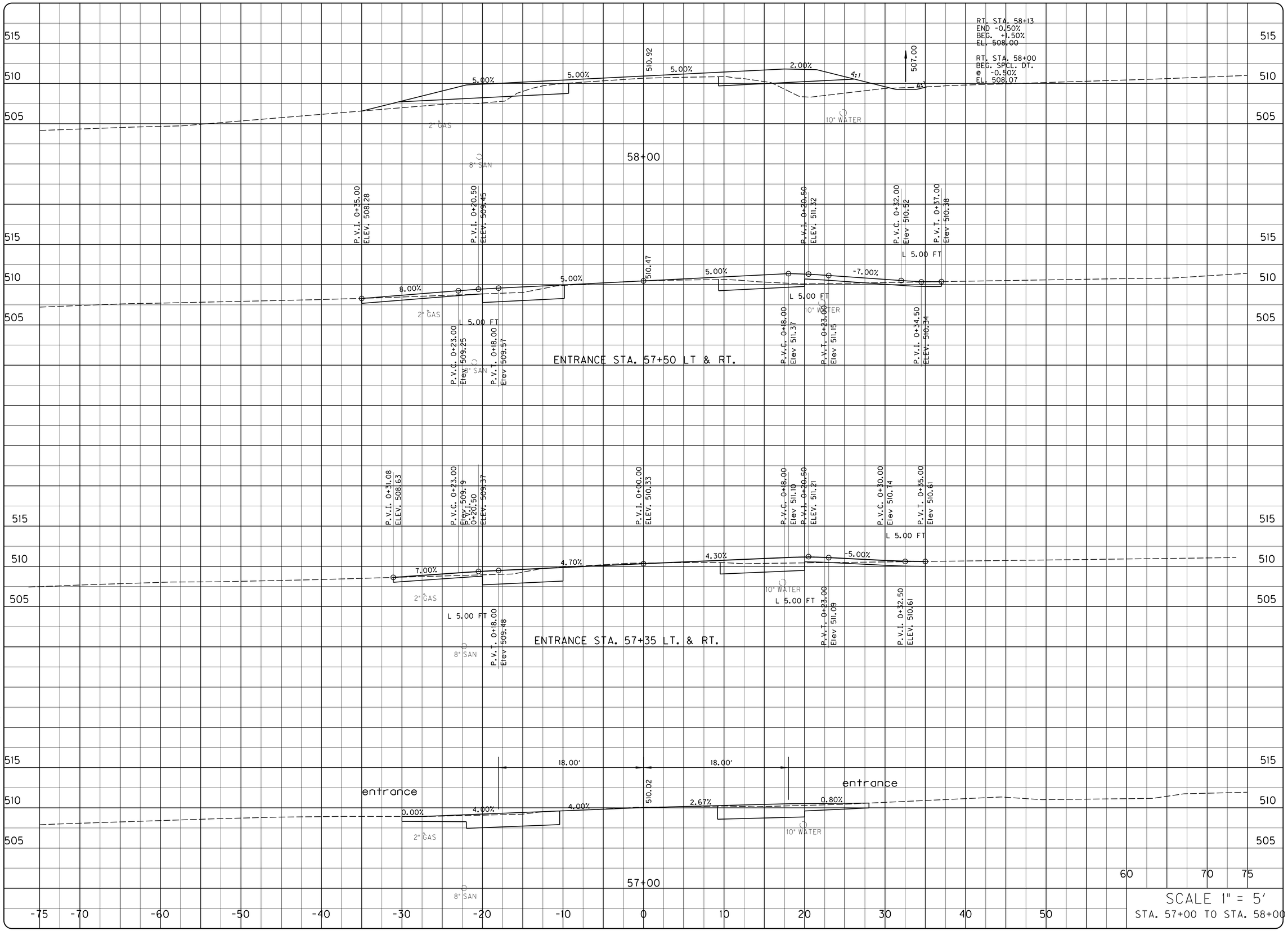

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PHONE: 270.753.7307
500 SOUTH 17th STREET
PADUCAH, KENTUCKY 42003
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KY. 121 - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
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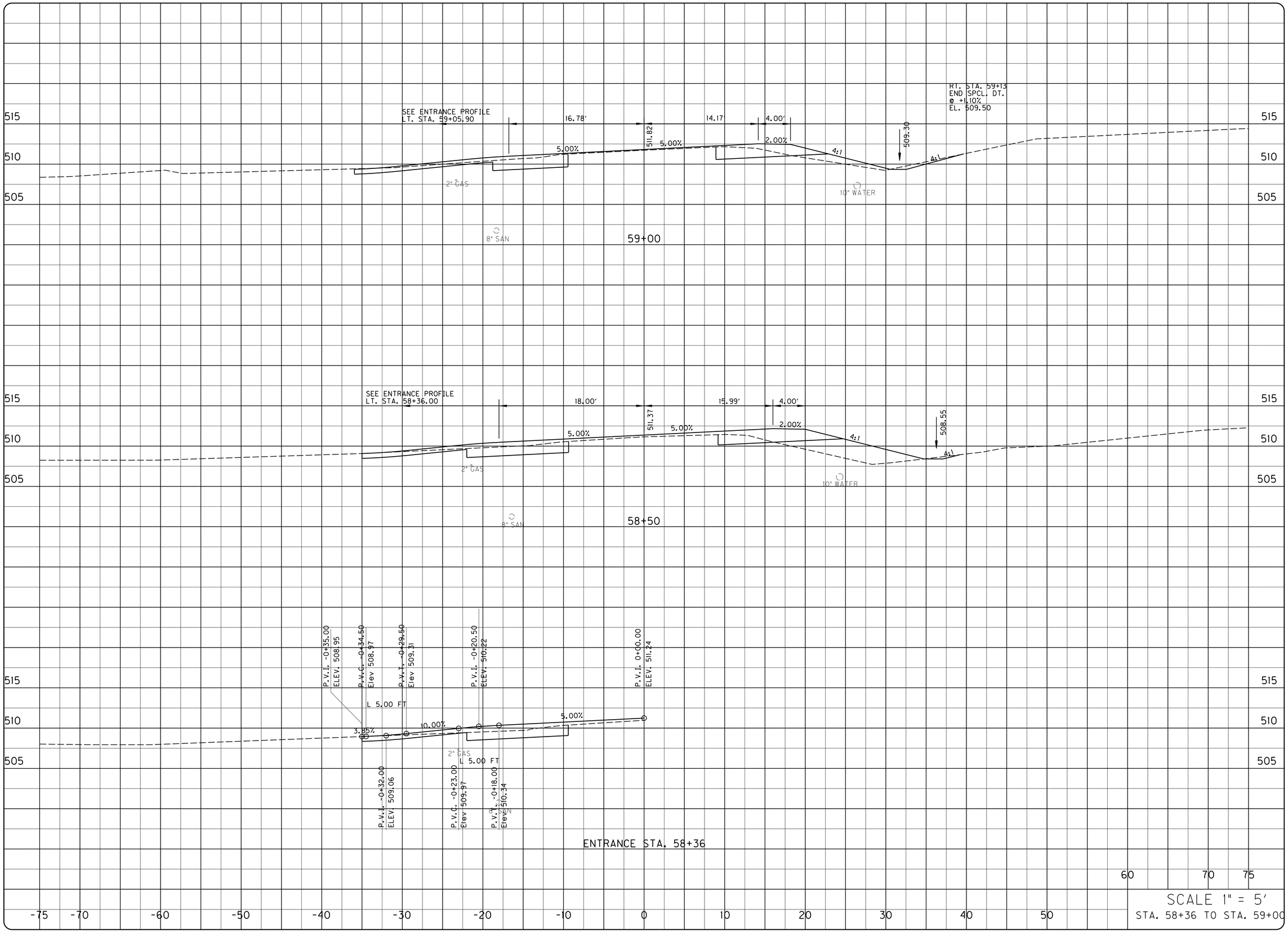
MURRAY, KY 42071

SHEET
X55



SCALE 1" = 5'

STA. 58+36 TO STA. 59+00

PROJECT NO. :

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KY. 121 - CROSS SECTIONS

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SHEET

X56

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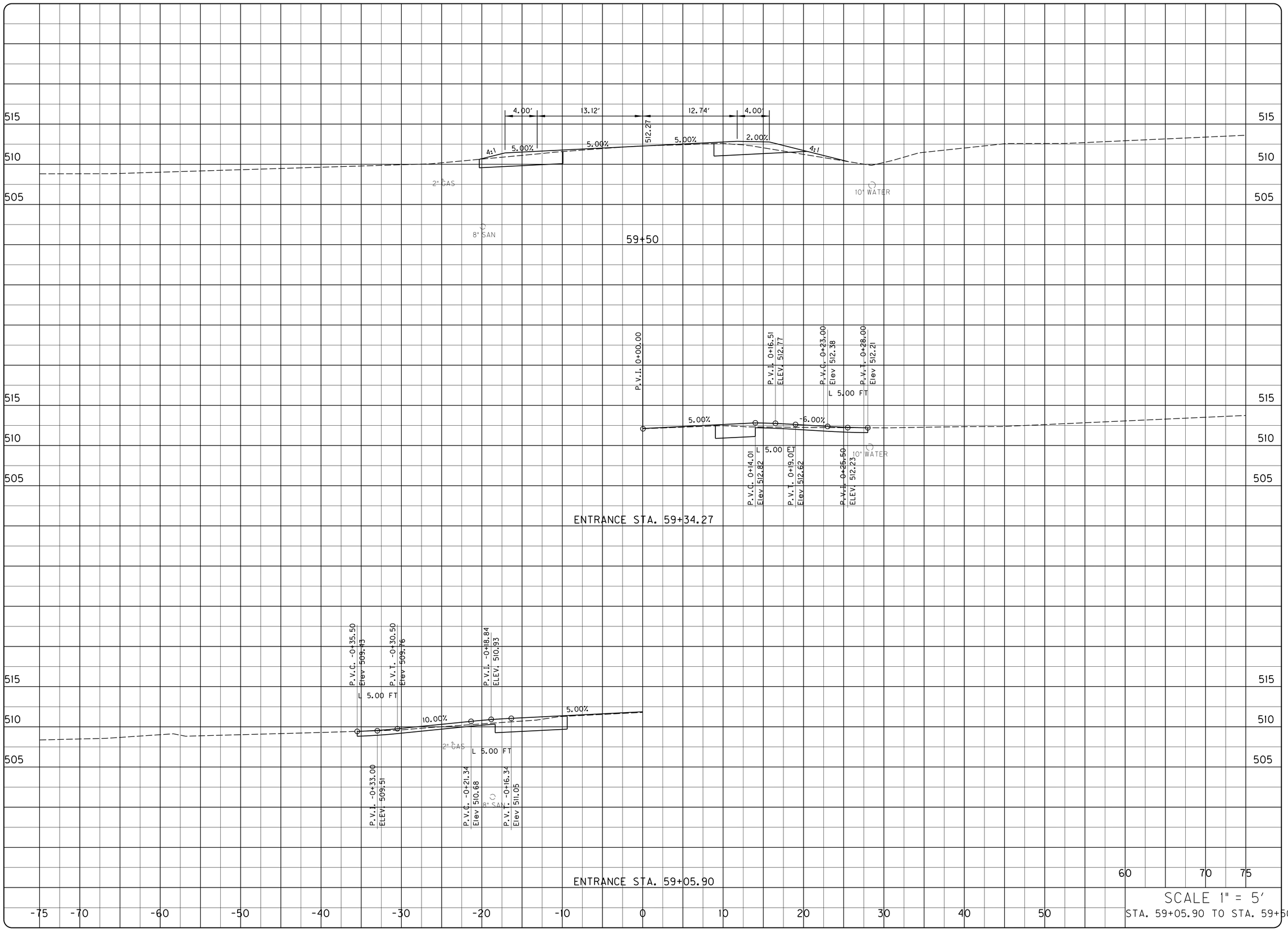

SCALE 1" = 5'

STA. 59+05.90 TO STA. 59+50

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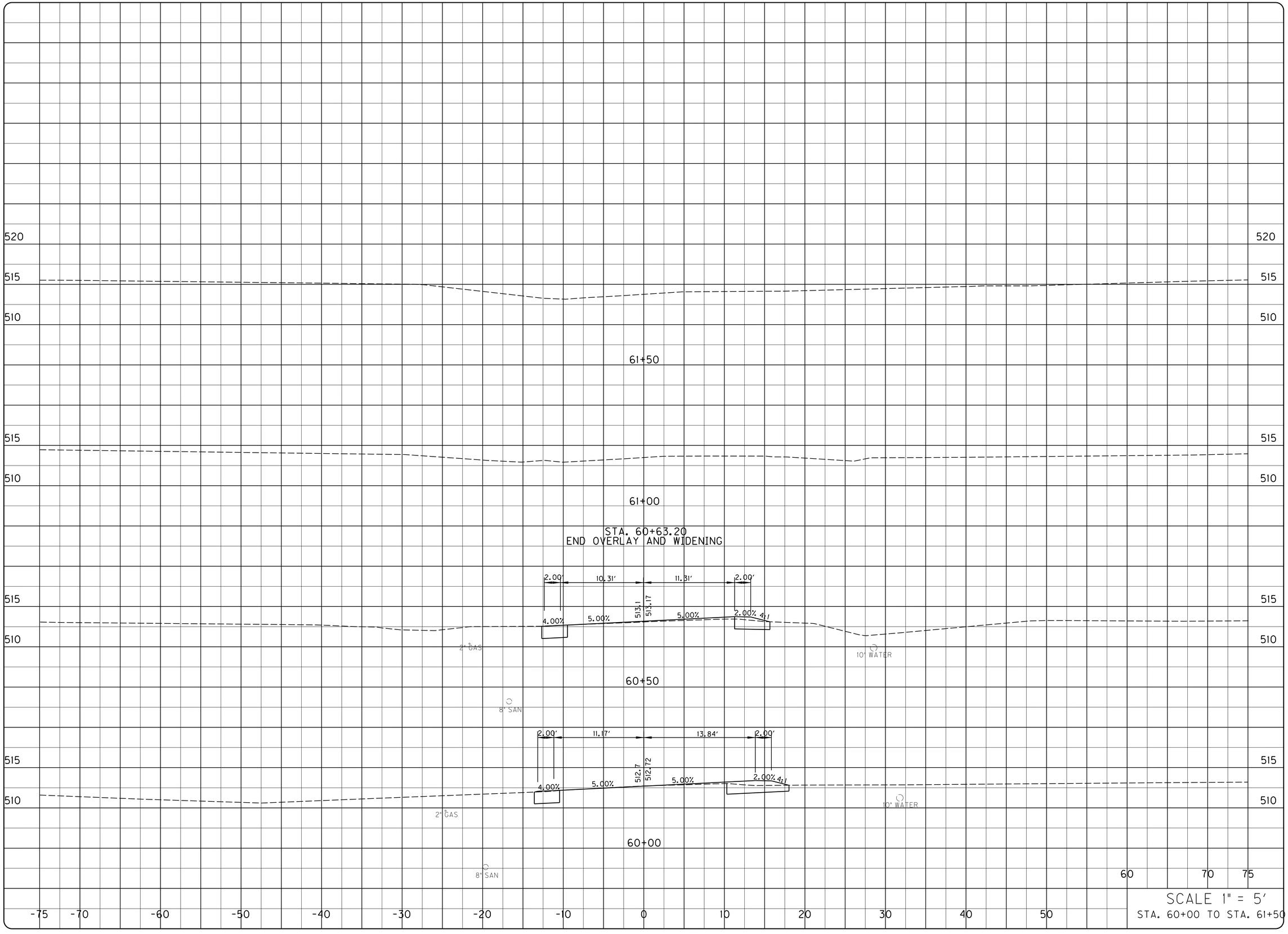

SCALE 1" = 5'

STA. 60+00 TO STA. 61+50

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SHEET

X58

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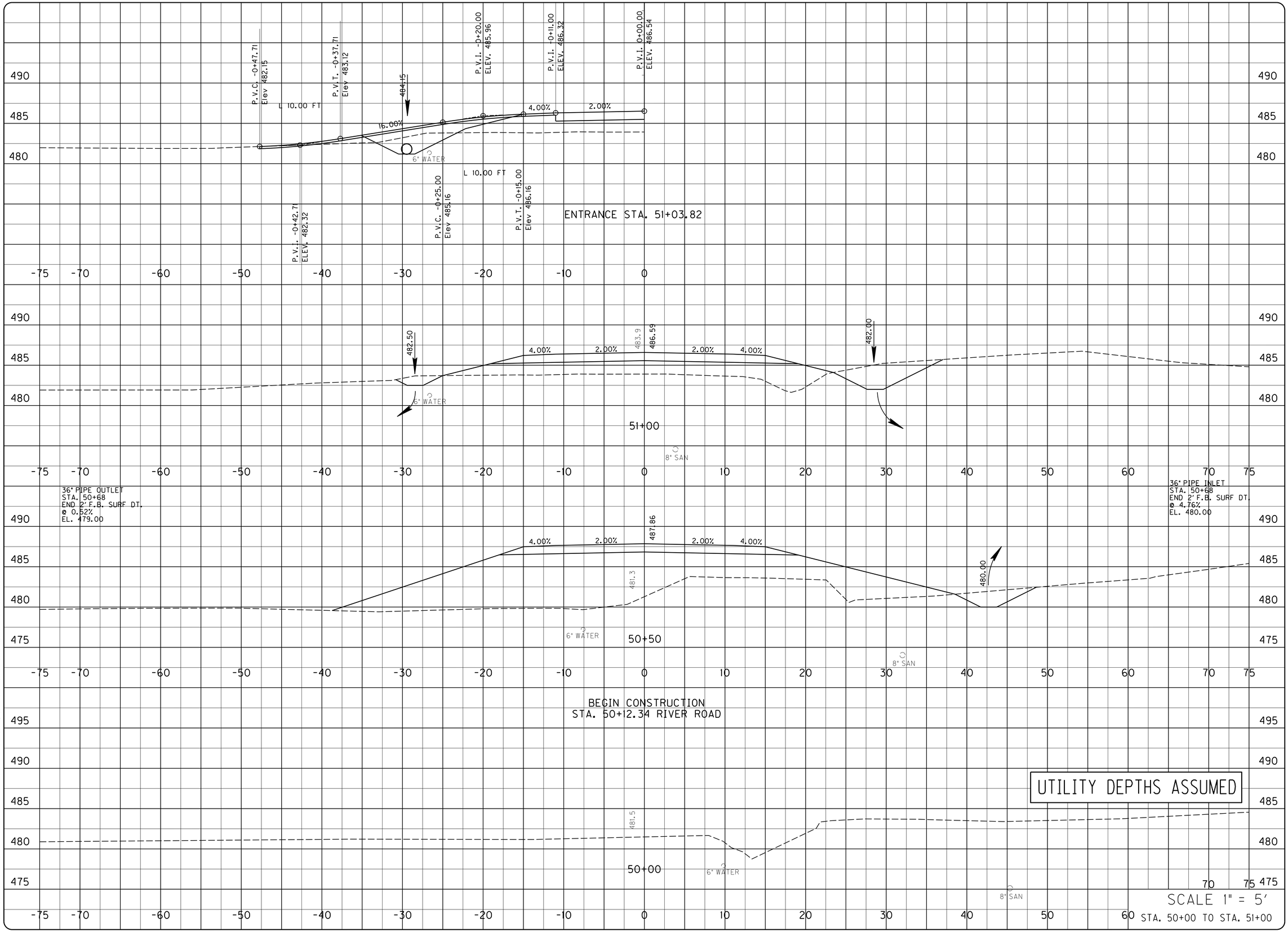

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RIVER ROAD - CROSS SECTIONS

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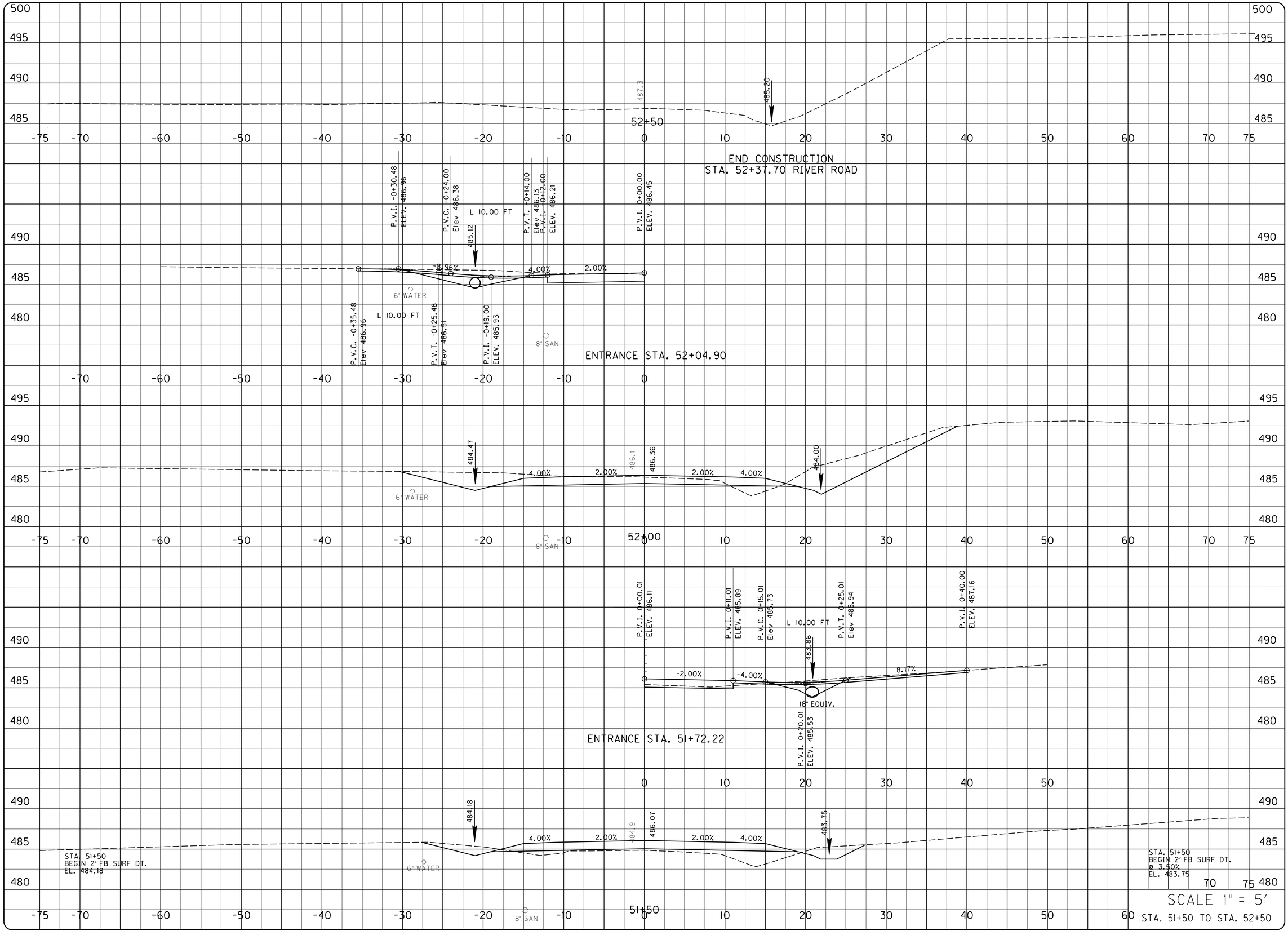
SHEET
X59



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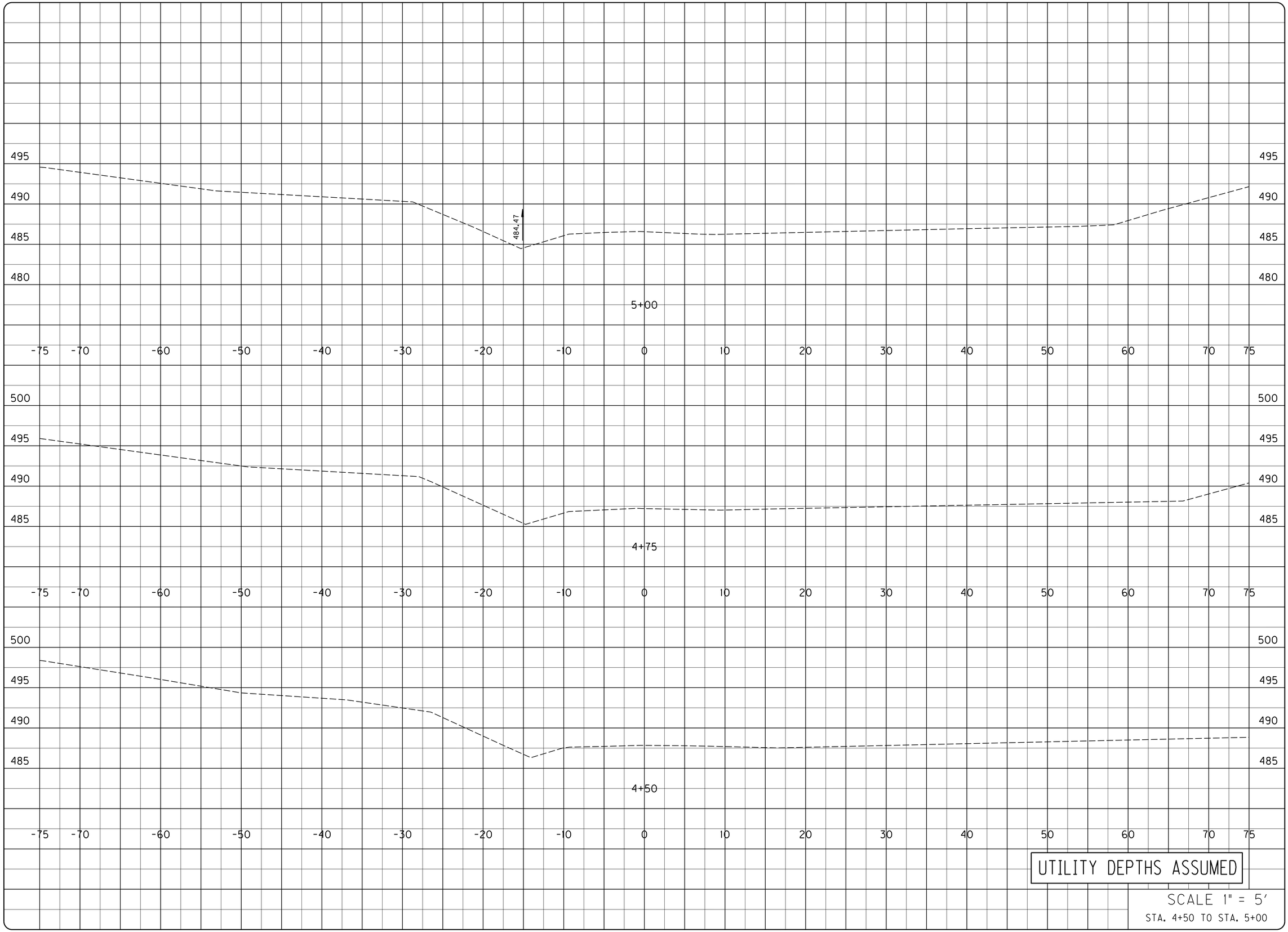
RIVER ROAD - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
X60



UTILITY DEPTHS ASSUMED

SCALE 1" = 5'

STA. 4+50 TO STA. 5+00

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RIVER ROAD (CUL-DE-SAC) - CROSS SECTIONS

MURRAY BUSINESS LOOP
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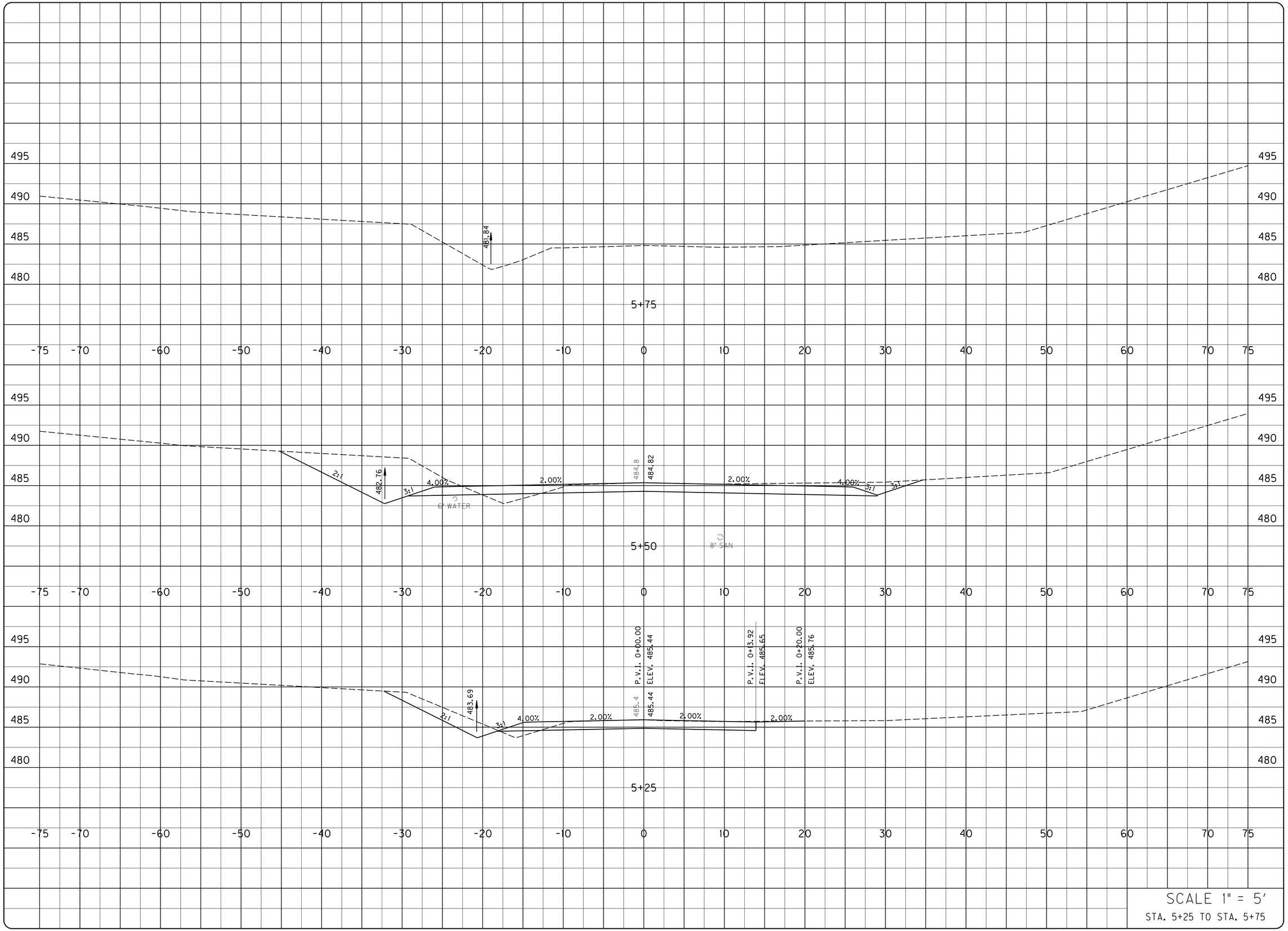
MURRAY, KY 42071

SHEET
X61



SCALE 1" = 5'

STA. 5+25 TO STA. 5+75

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PADUCAH, KENTUCKY 42003
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RIVER ROAD (CUL-DE-SAC) - CROSS SECTIONS

MURRAY BUSINESS LOOP
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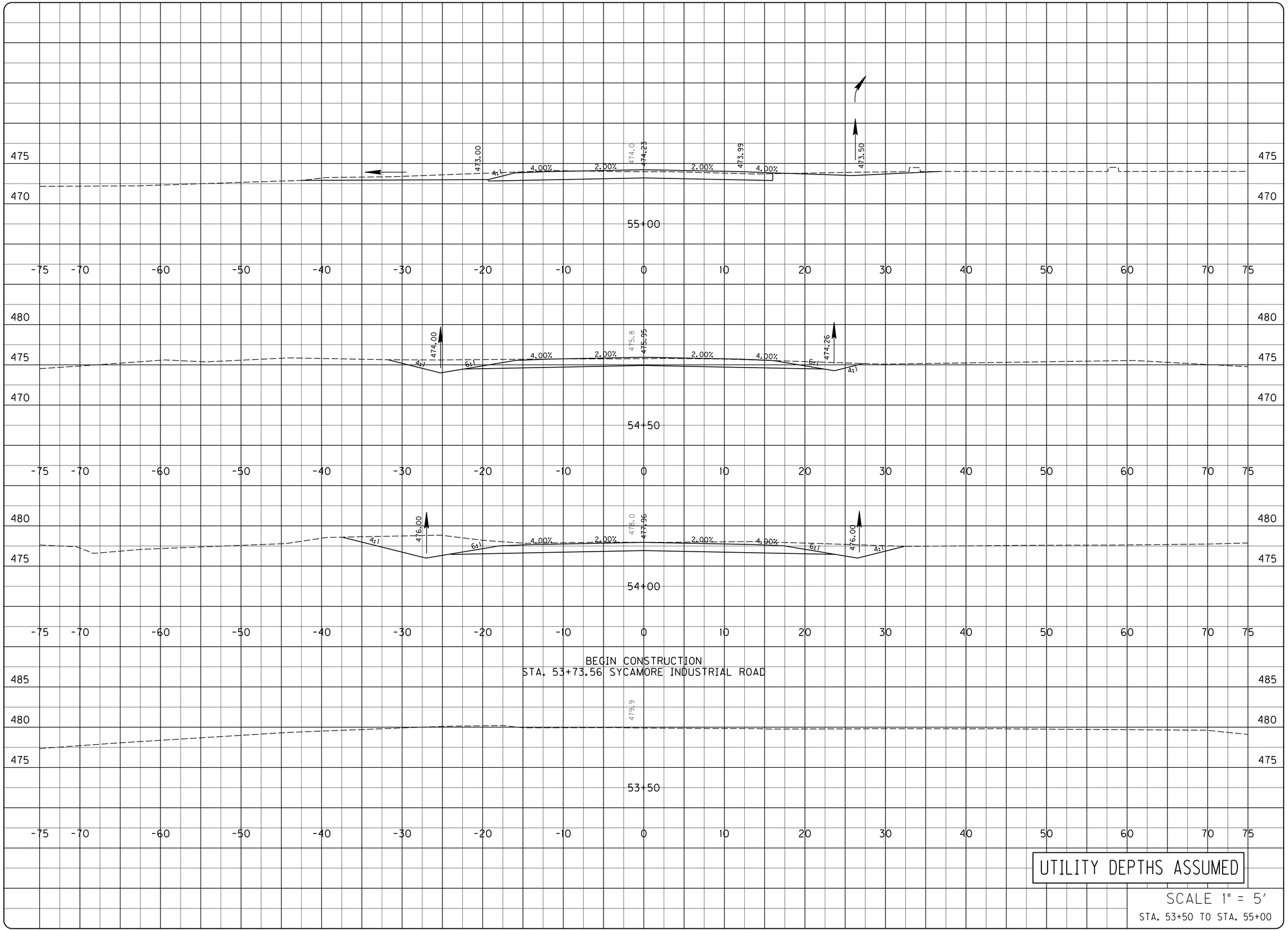
MURRAY, KY 42071

SHEET
X62



UTILITY DEPTHS ASSUMED

SCALE 1" = 5'

STA. 53+50 TO STA. 55+00

PROJECT NO. :

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SYCAMORE INDUSTIRAL RD - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET
X63

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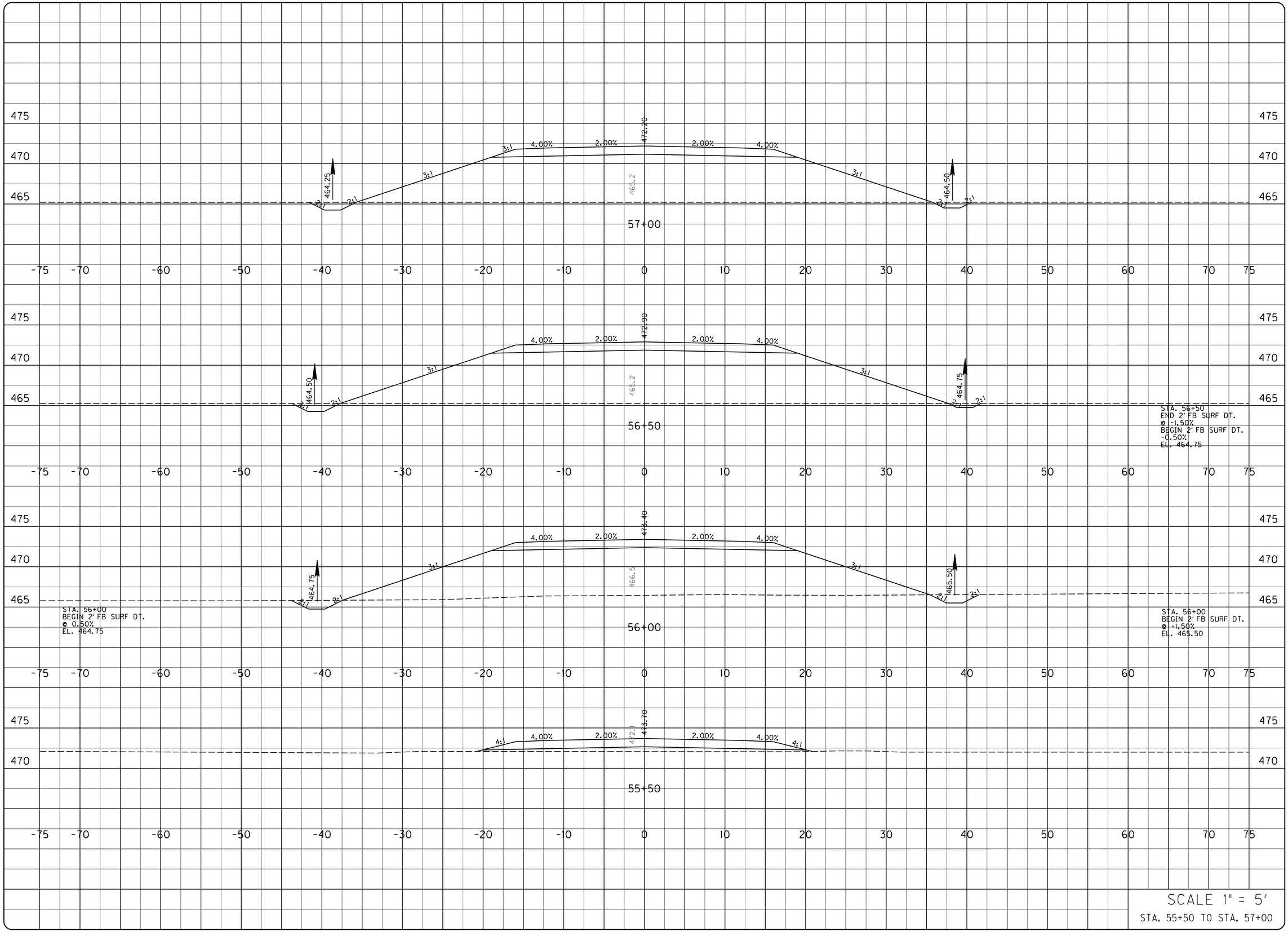

SCALE 1" = 5'

STA. 55+50 TO STA. 57+00

PROJECT NO. :

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SYCAMORE INDUSTIRAL RD - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

SHEET

X64

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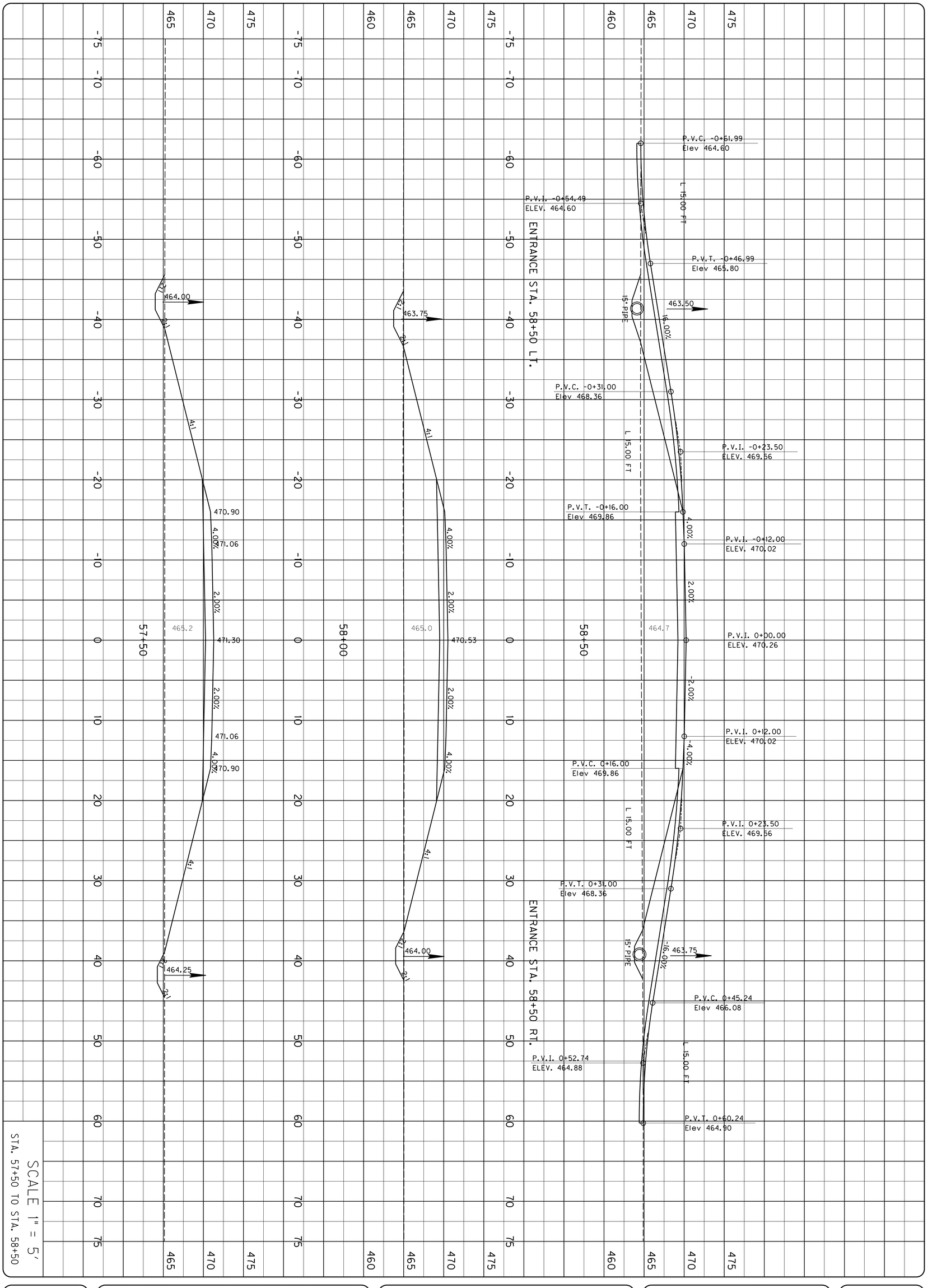

SCALE 1" = 5'

STA. 57+50 TO STA. 58+50

SHEET

59X65

SYCAMORE INDUSTIRAL RD - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
104 NORTH 5TH STREET
MURRAY, KY 42071

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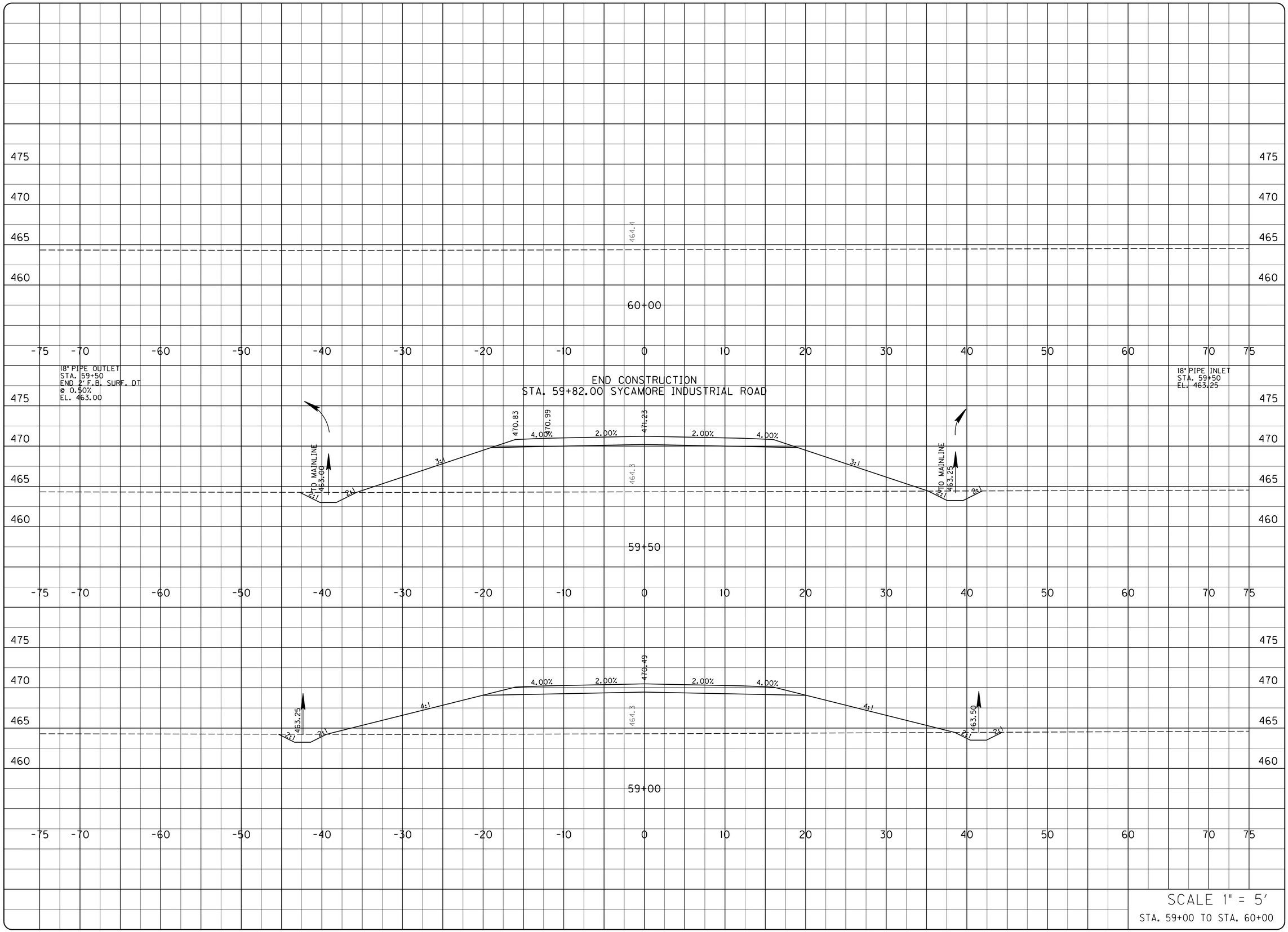

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500 SOUTH 17th STREET
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SYCAMORE INDUSTIRAL RD - CROSS SECTIONS

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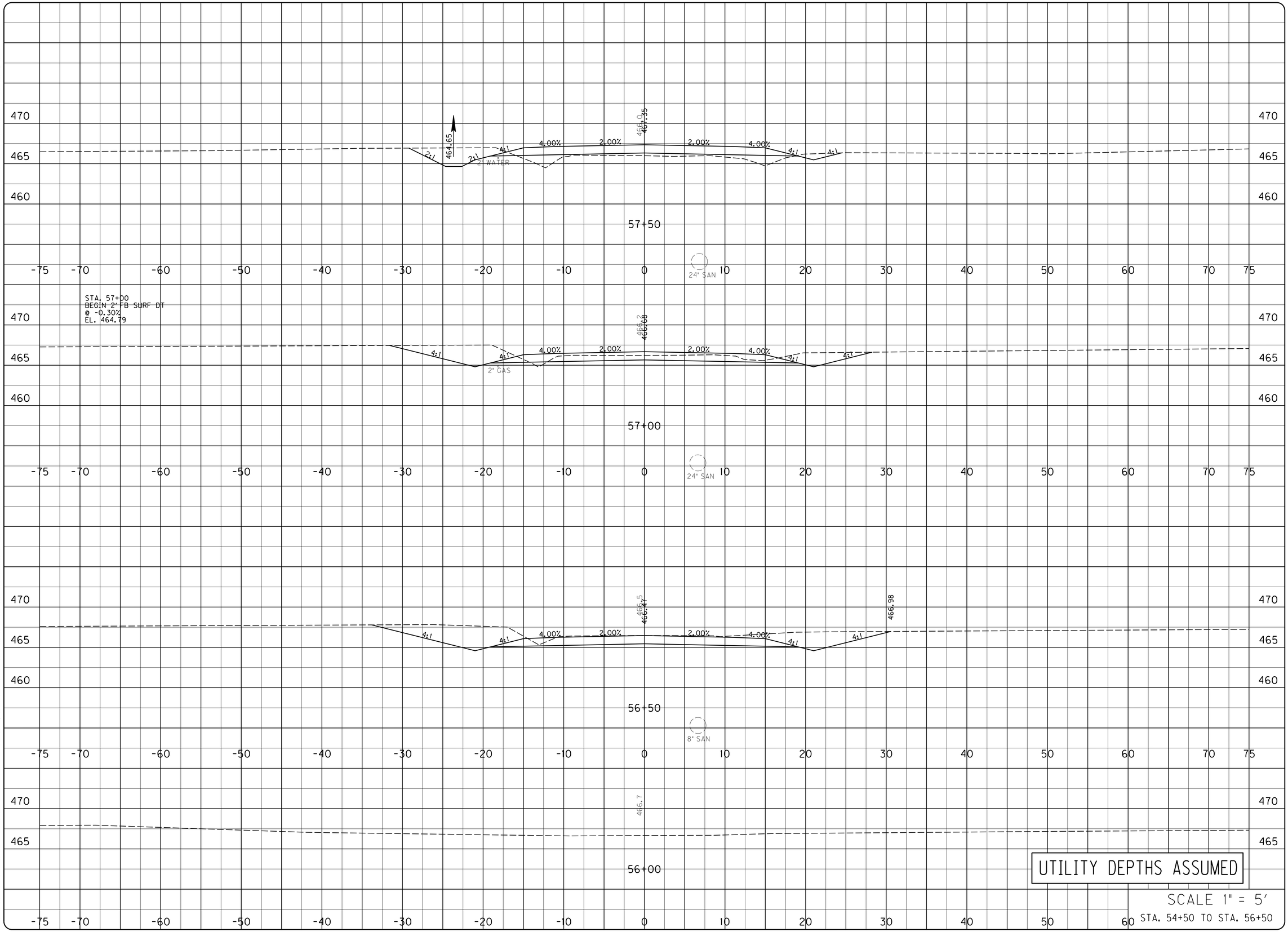
SHEET
X66



UTILITY DEPTHS ASSUMED

SCALE 1" = 5'

STA. 54+50 TO STA. 56+50

PROJECT NO. :

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OLD CONCORD ROAD - CROSS SECTIONS

MURRAY BUSINESS LOOP
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SHEET
X67

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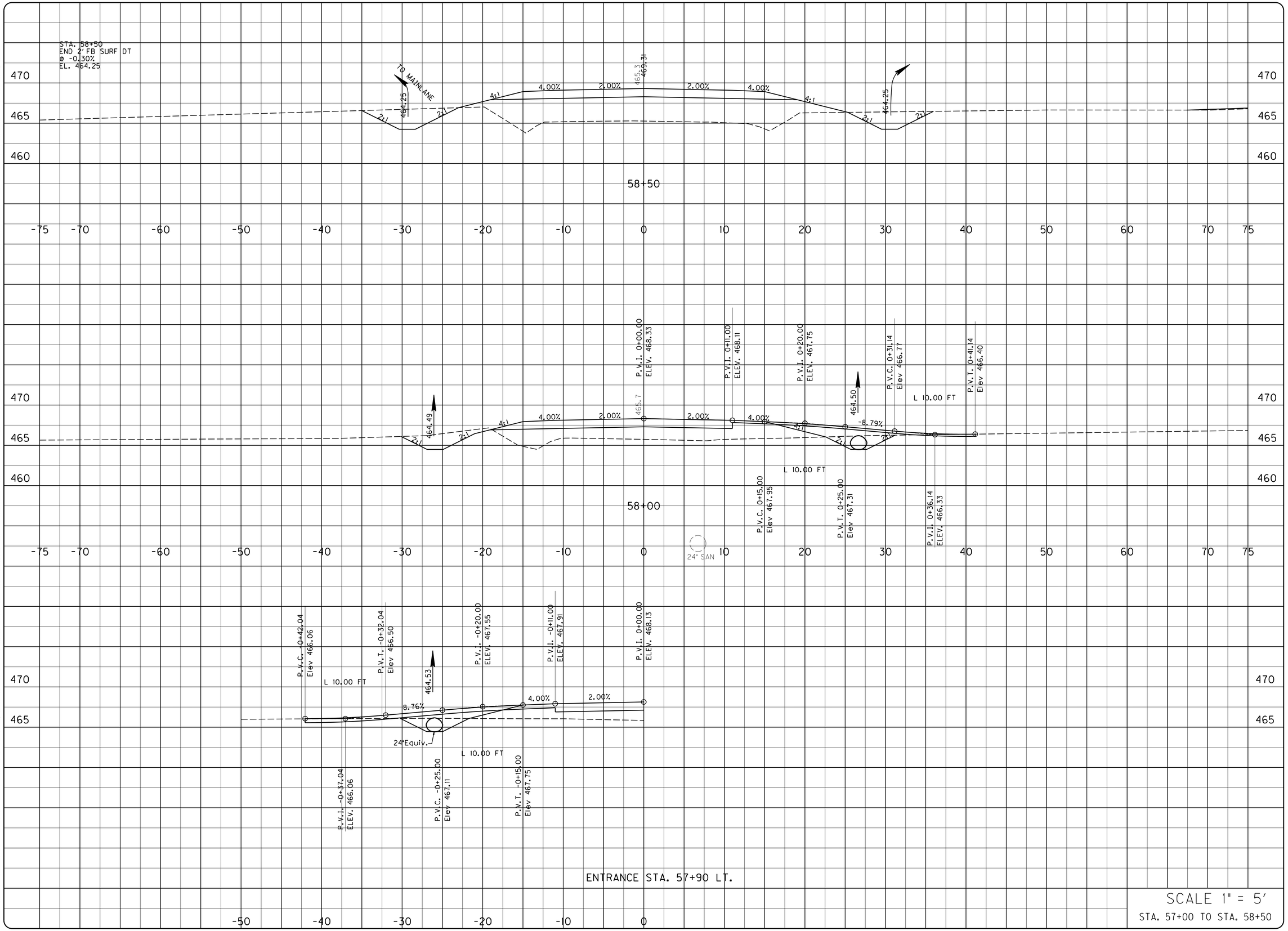

SCALE 1" = 5'

STA. 57+00 TO STA. 58+50

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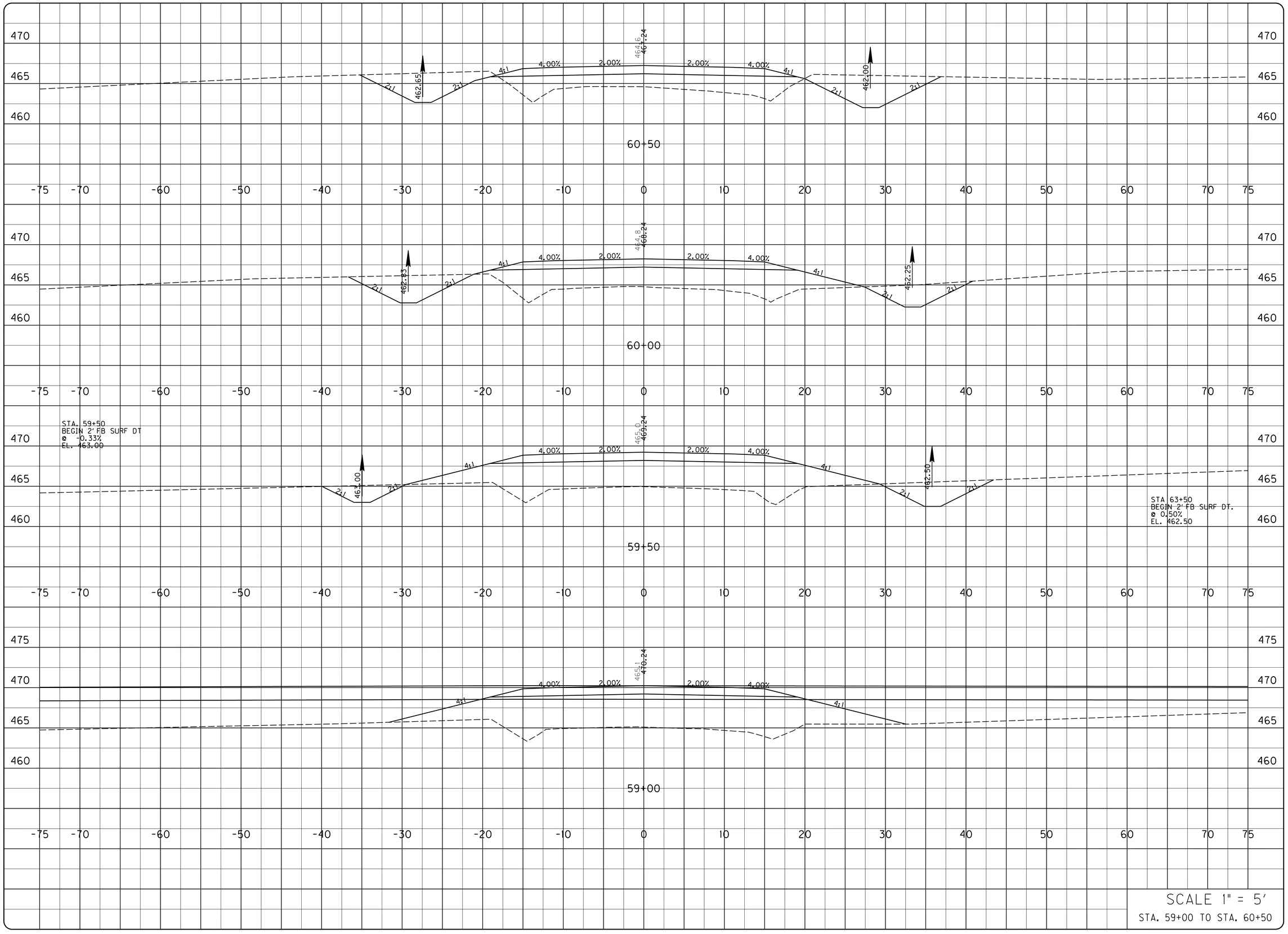
SHEET
X68



SCALE 1" = 5'

STA. 59+00 TO STA. 60+50

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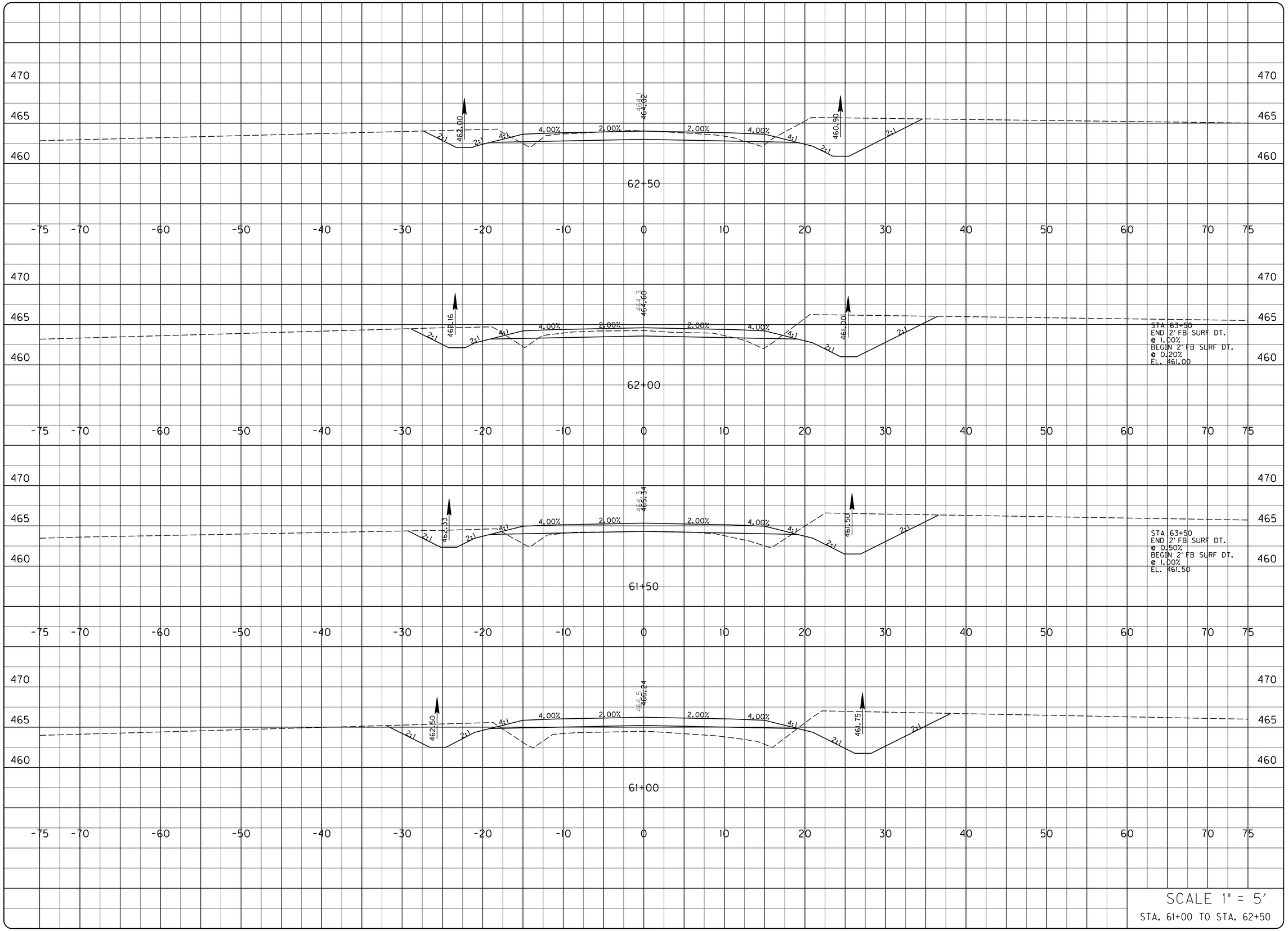
SHEET
X69



SCALE 1" = 5'

STA. 61+00 TO STA. 62+50

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SHEET

X70

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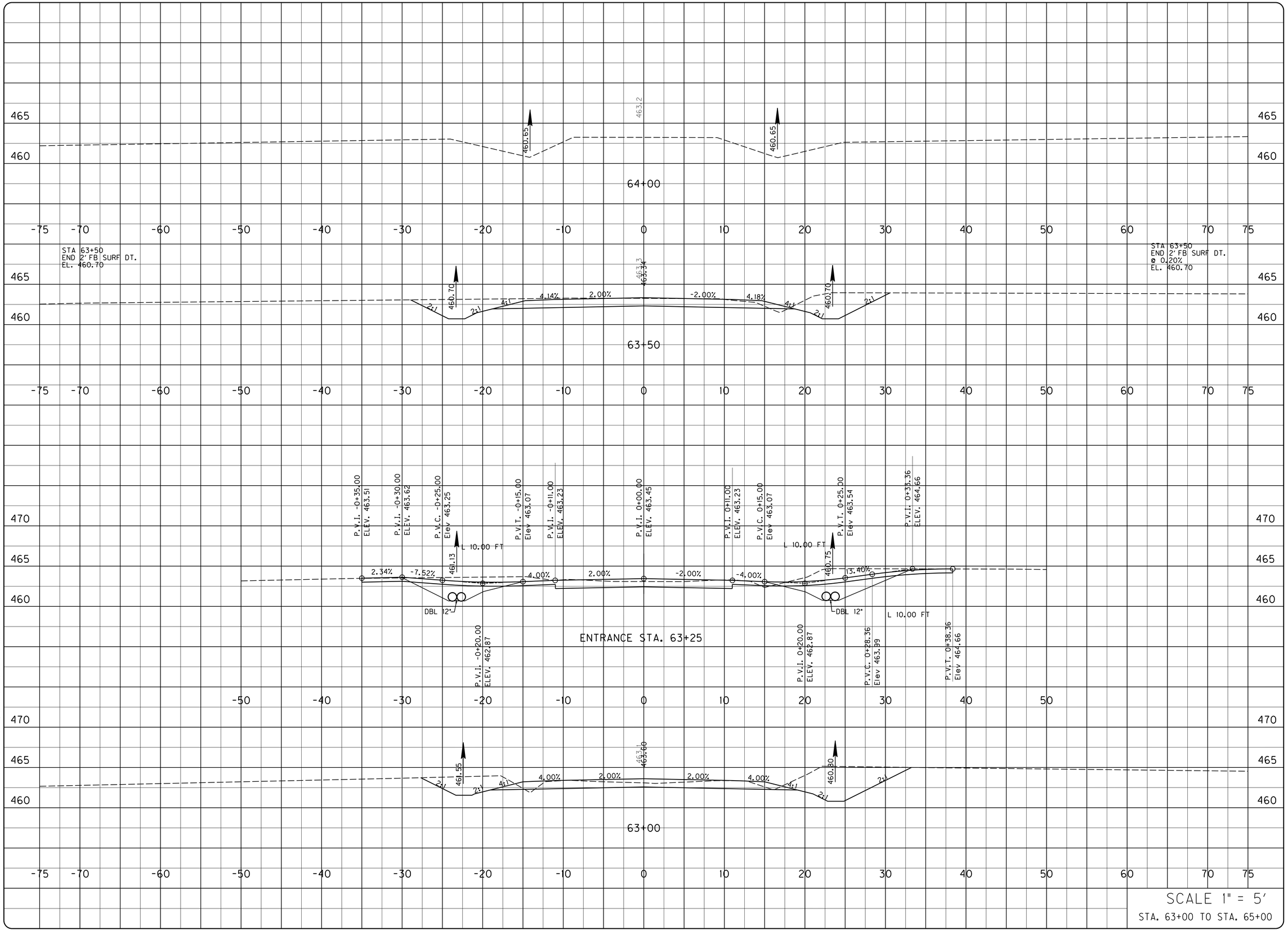

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500 SOUTH 17th STREET
PADUCAH, KENTUCKY 42003
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OLD CONCORD ROAD - CROSS SECTIONS

MURRAY BUSINESS LOOP
CITY OF MURRAY
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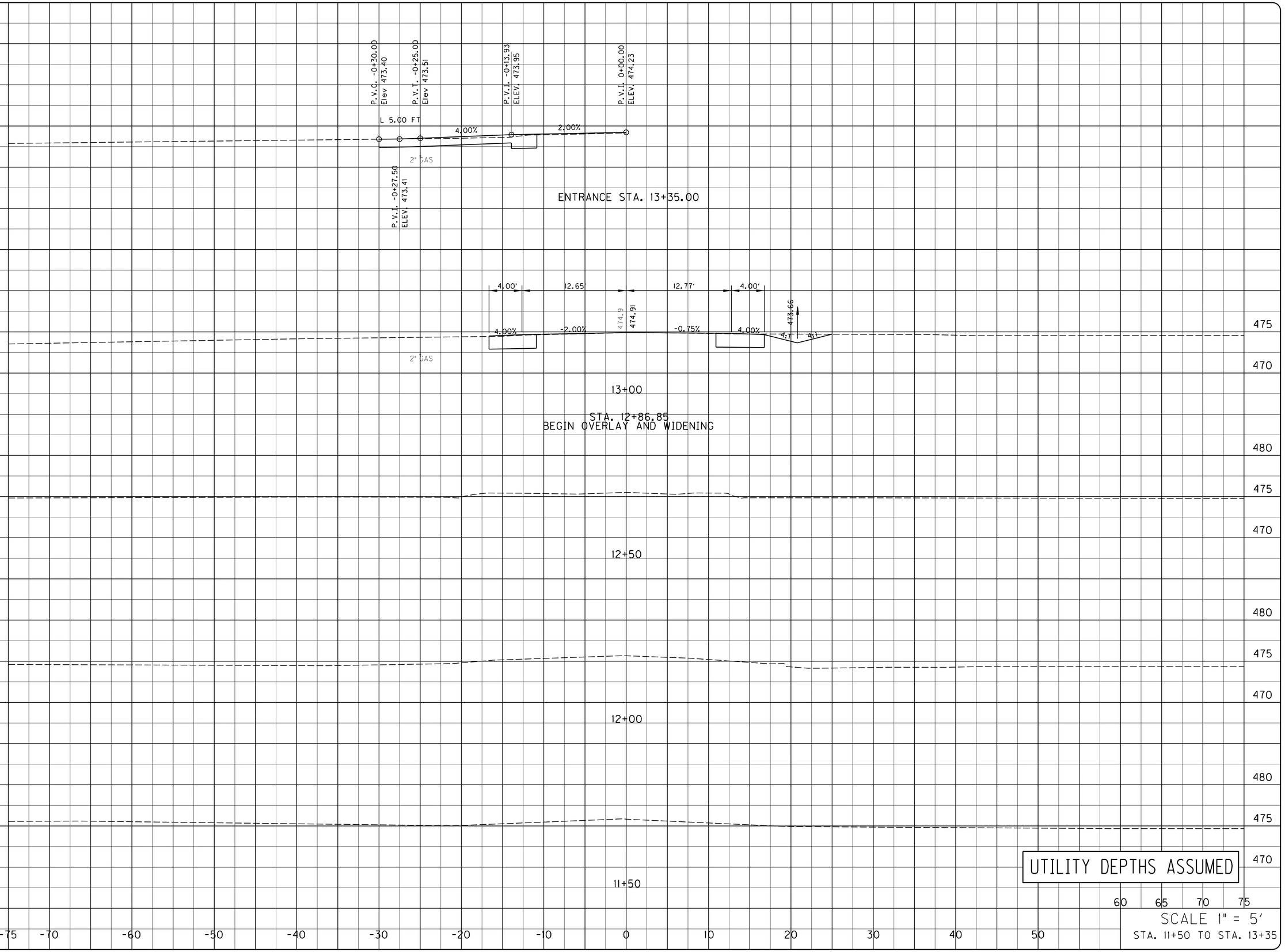
MURRAY, KY 42071

SHEET
X71



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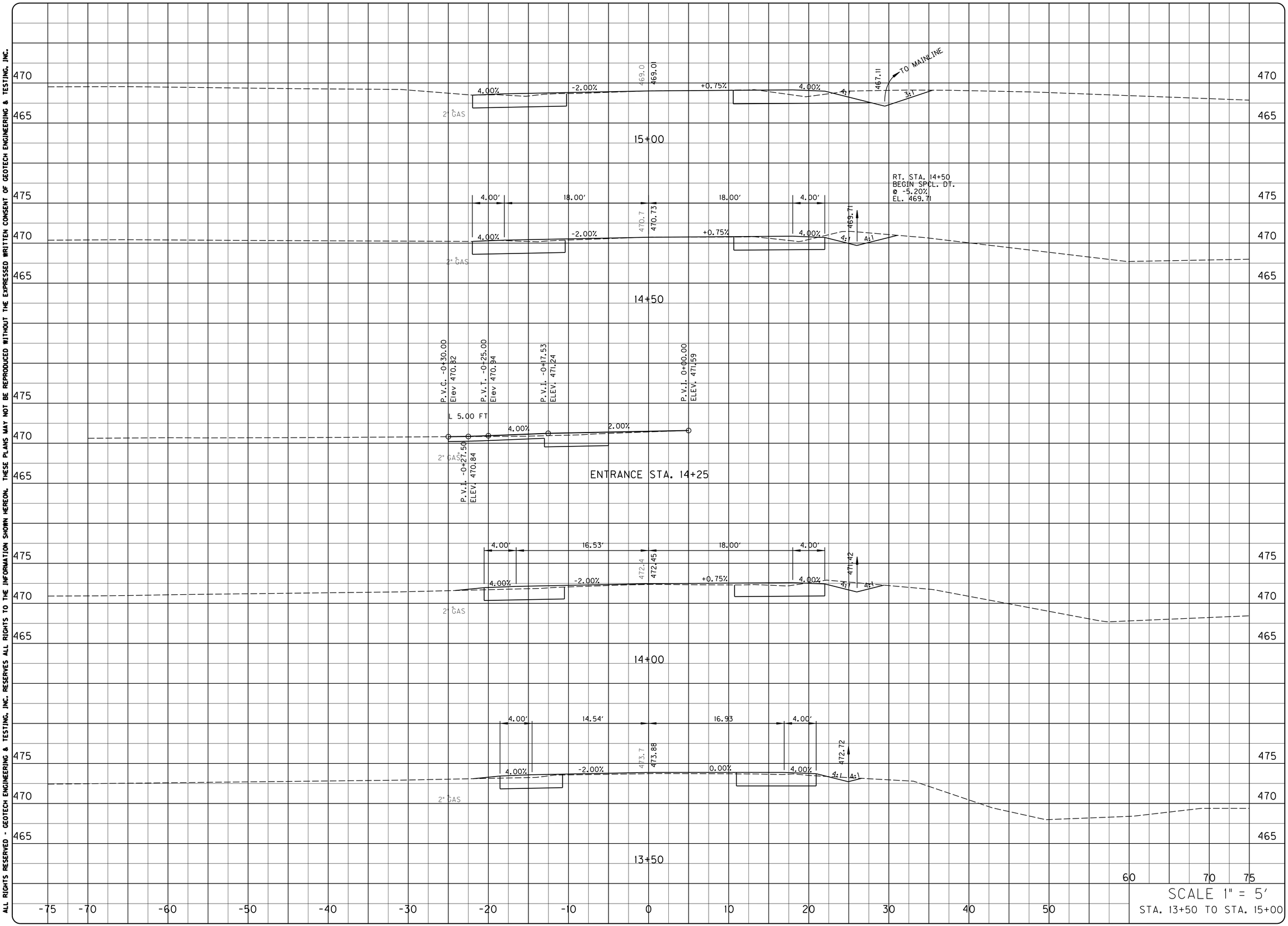
SHEET
X72



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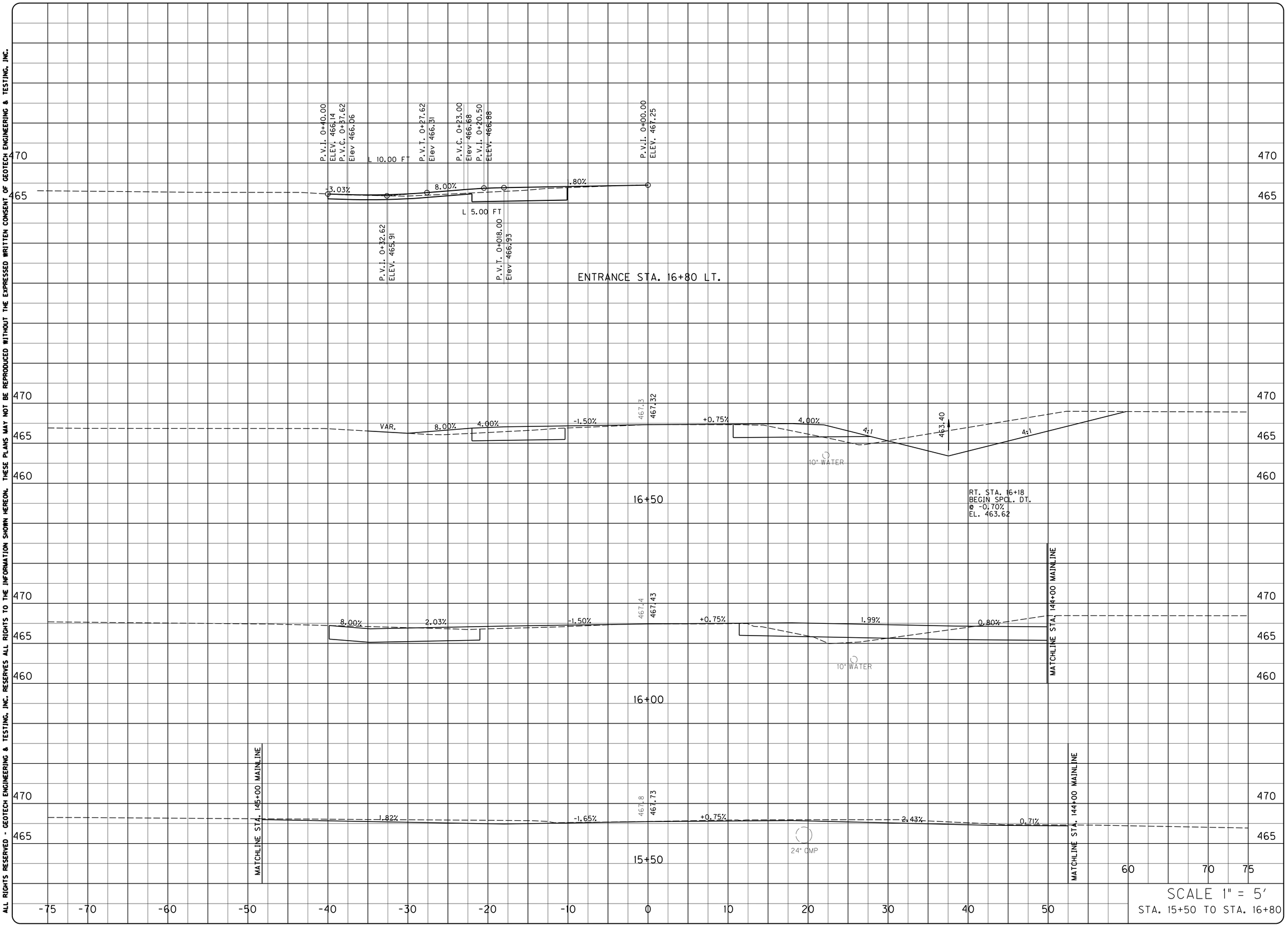
SHEET
X73



SCALE 1" = 5'

STA. 15+50 TO STA. 16+80

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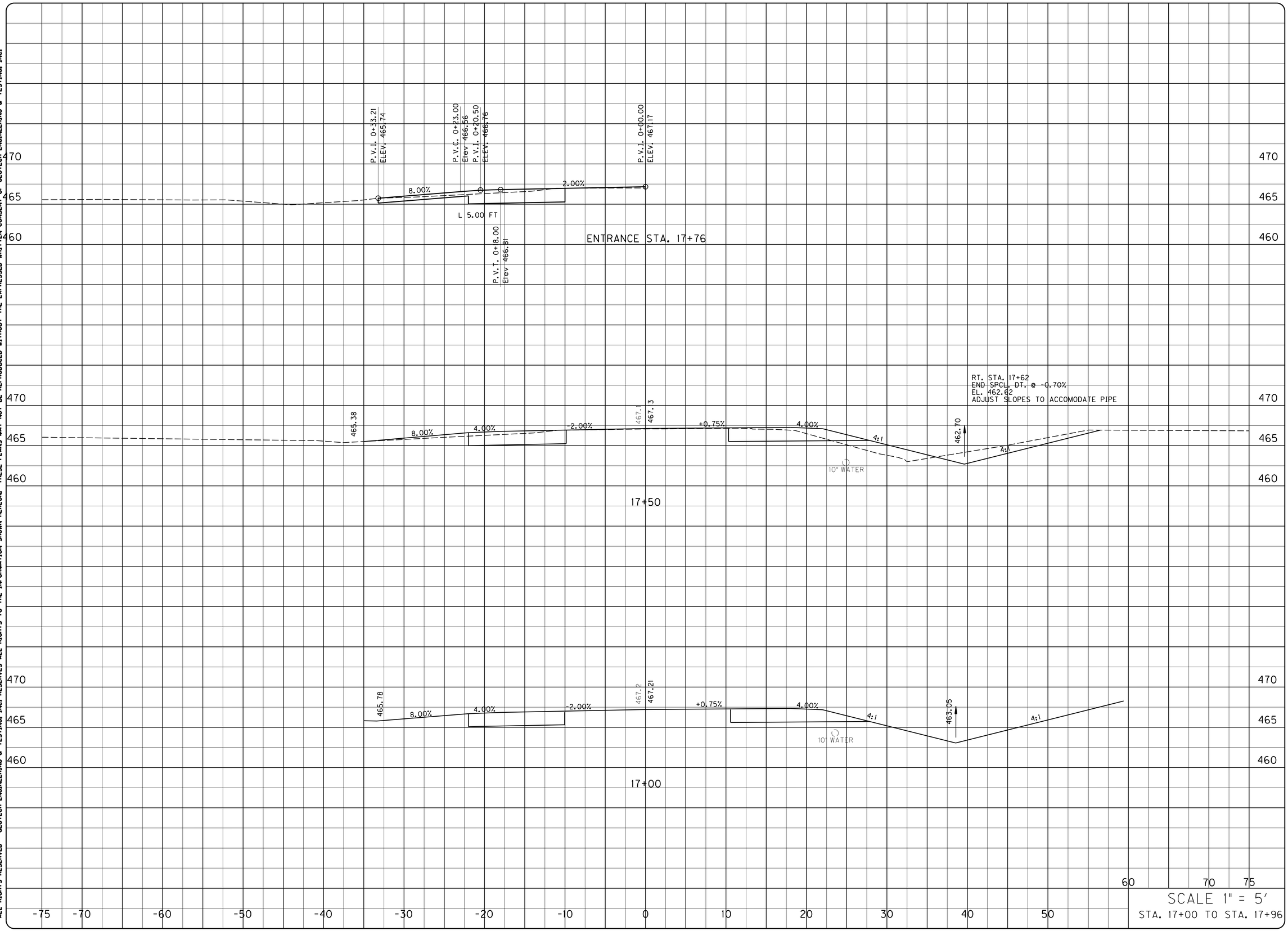
SHEET
X74



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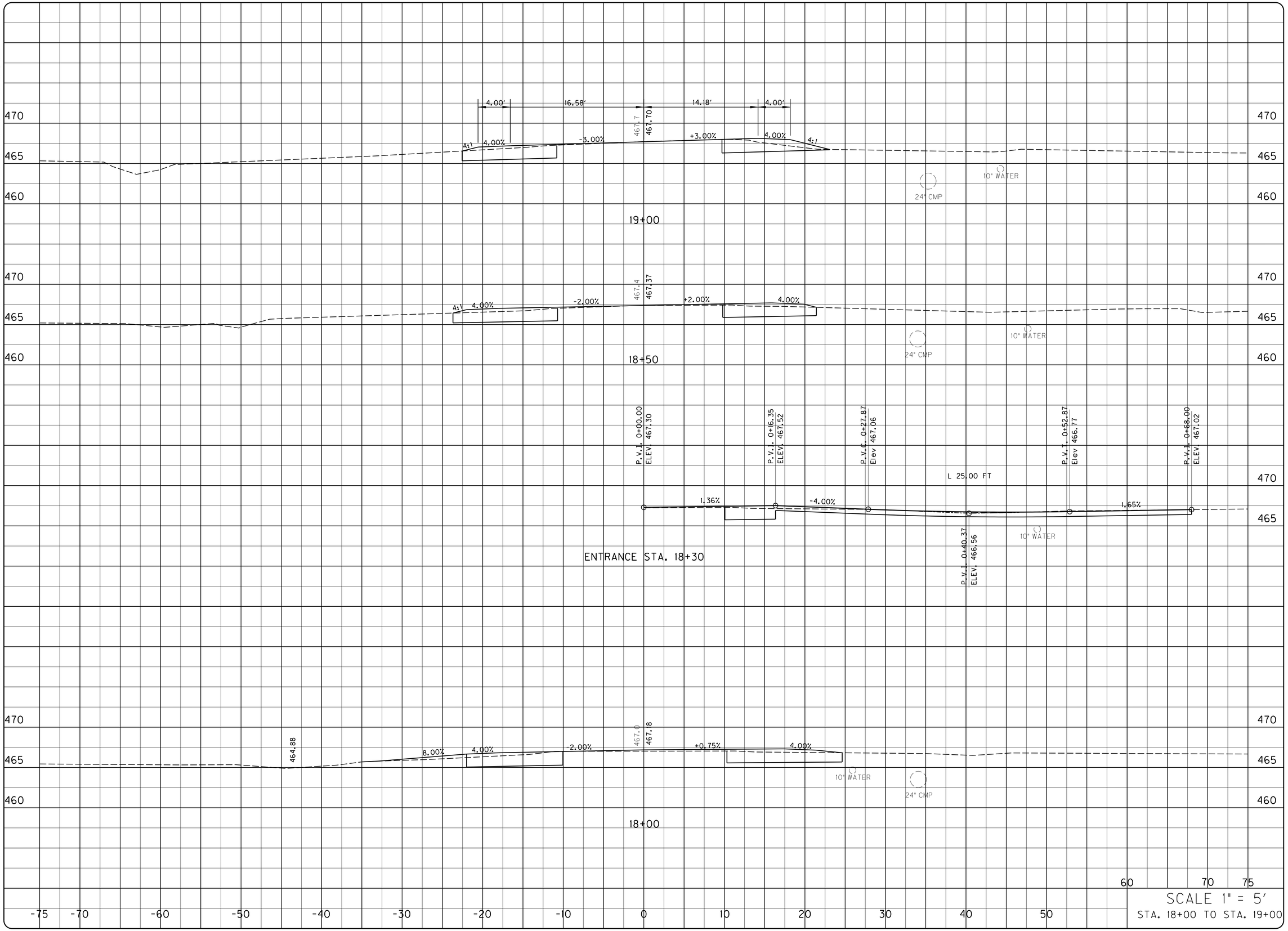
SHEET
X75



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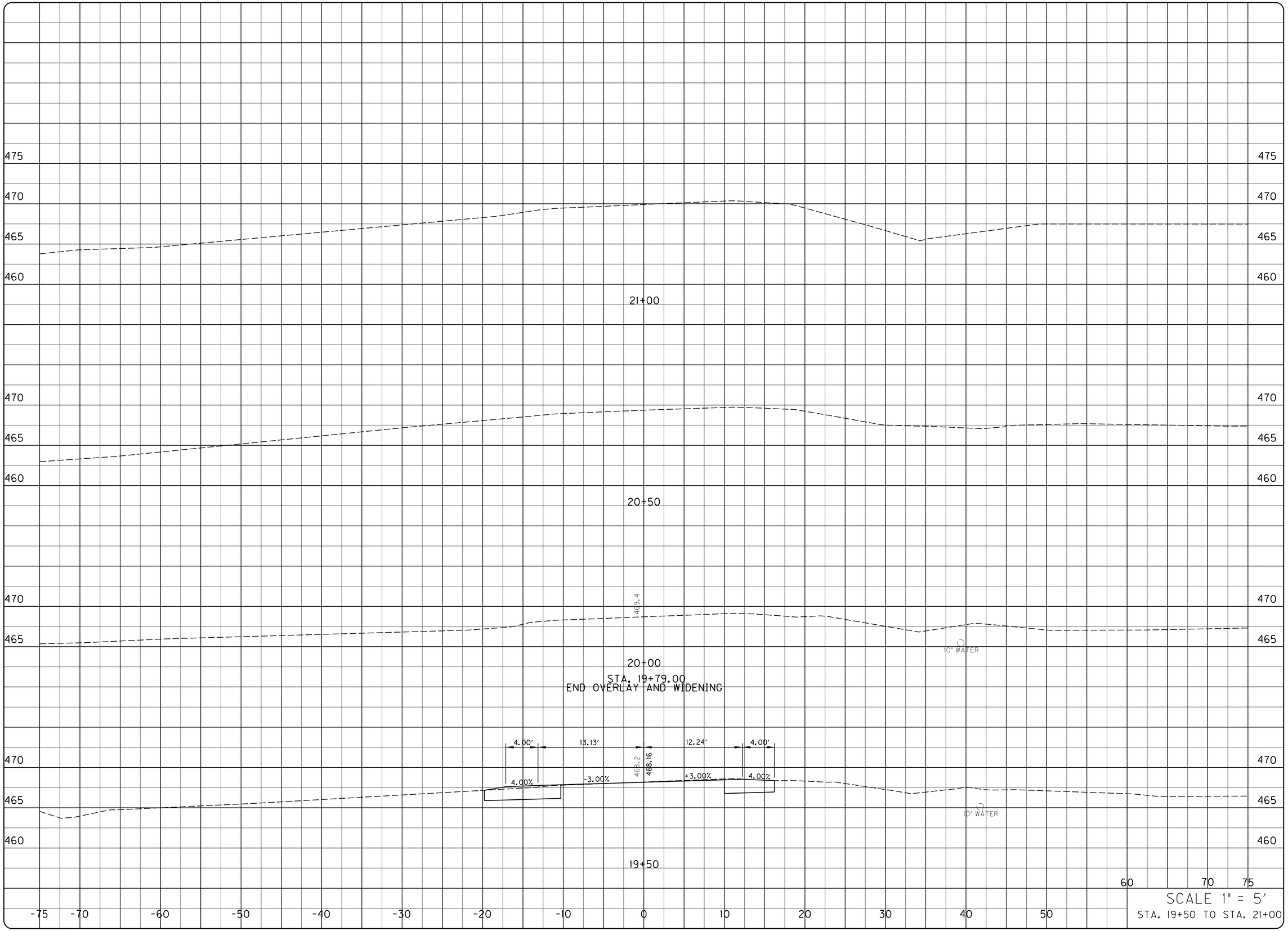
SHEET
X76



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