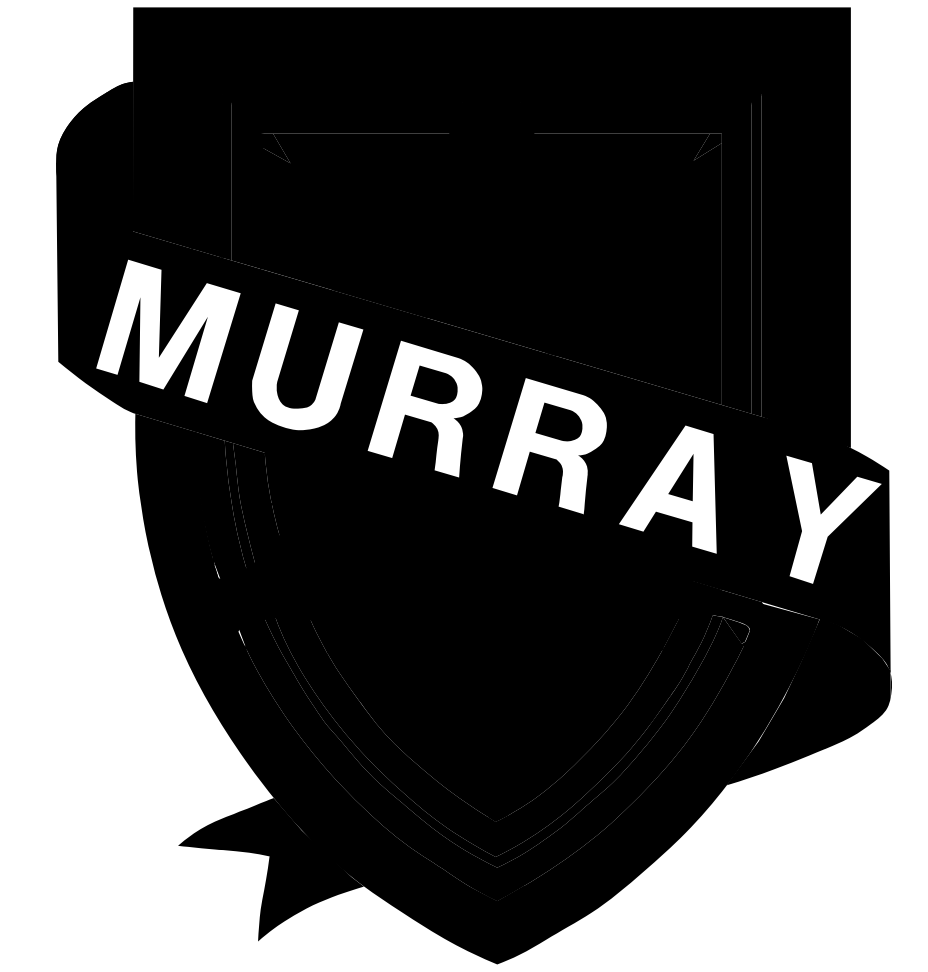


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# Murray Business Loop

## for the City of Murray, Kentucky

### RIGHT-OF-WAY PLANS



**Mayor:**  
**Bill Wells**

**City Administrator:**  
**Matt Mattingly**

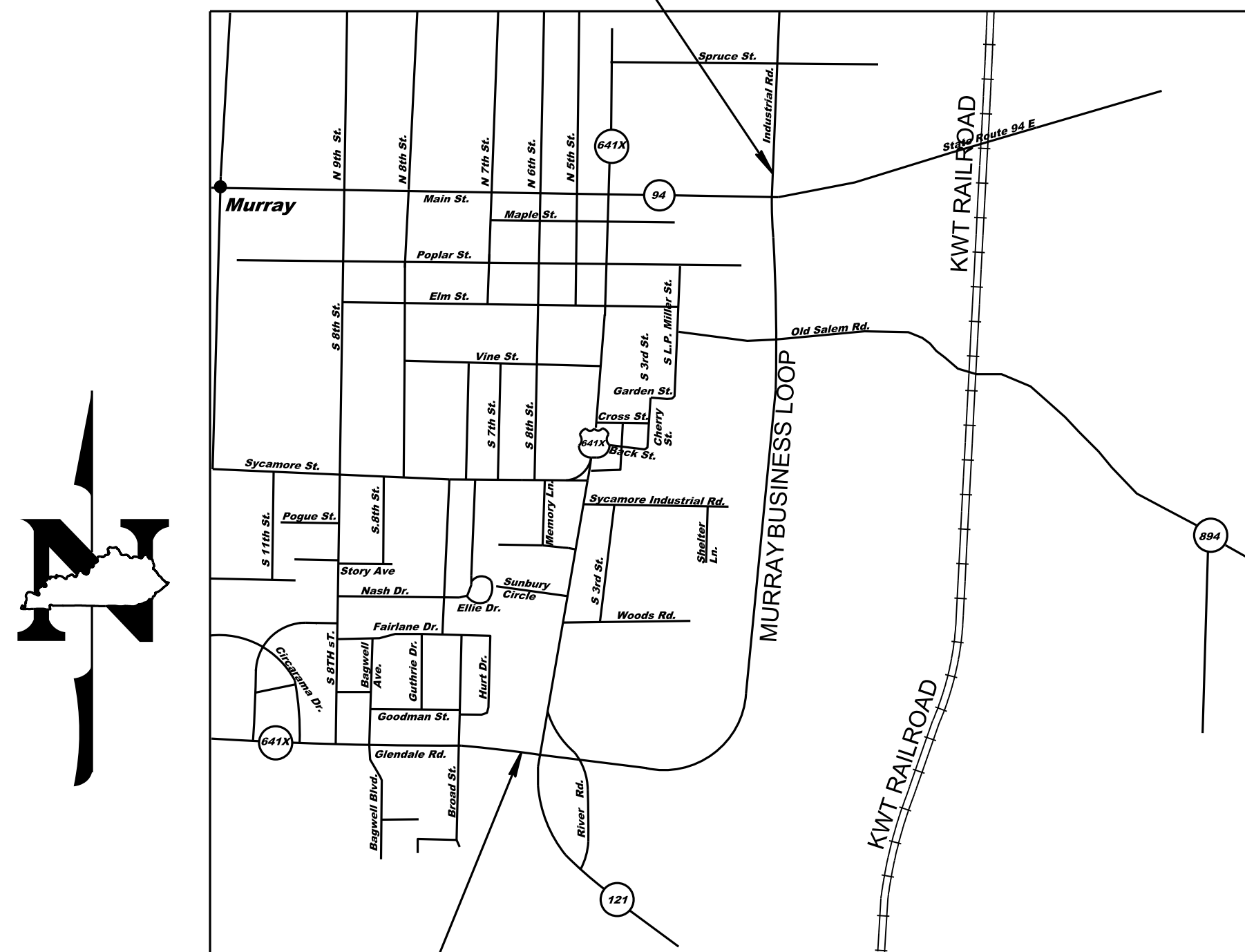
**City Engineer:**  
**David Roberts**

**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**

**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	
	RDB-013-05	RPM-110-04
	RDB-014-05	RRE-002-04
	RDB-015-03	TTC-260-11
	RDB-016-02	TTC-261-08
	RDD-040-04	
	RDH-020-03	BBP-001-10
		BBP-002-04
		BBP-003-01
	RDI-001-07	BGX-006-08
	RDI-020-08	
	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**

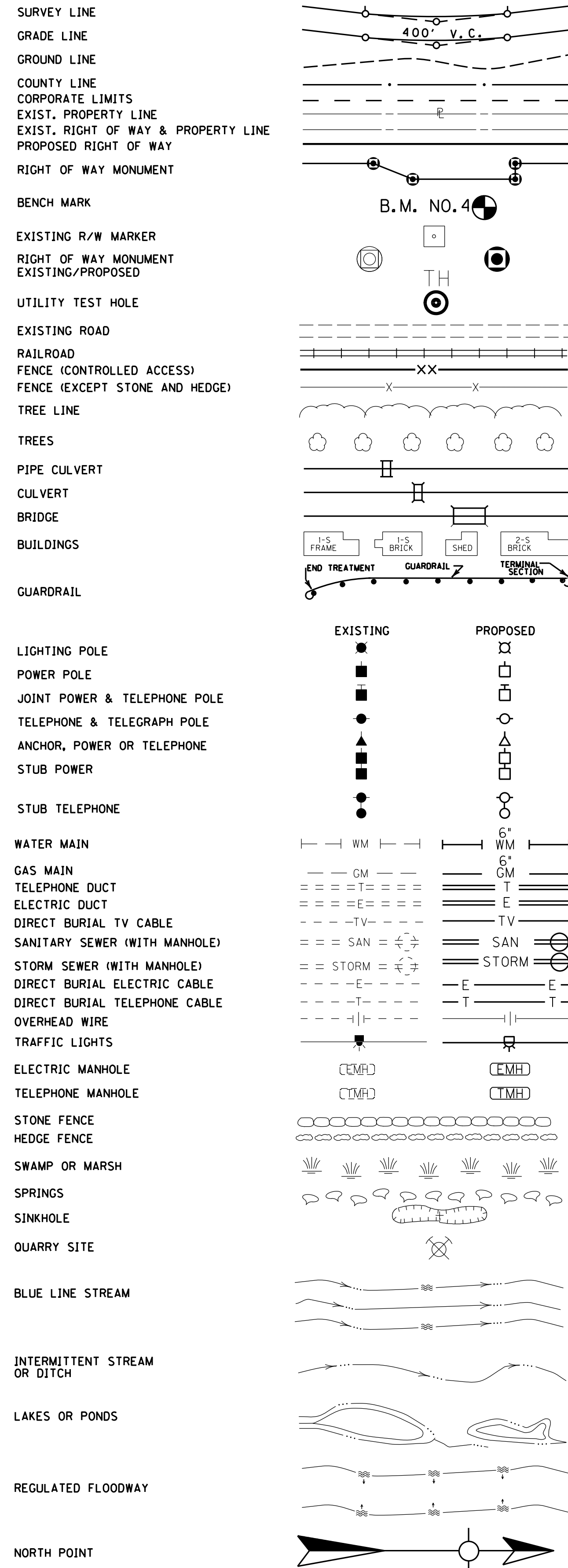
% RESTRICTED SD	
LEVEL OF SERVICE	
MAX. DISTANCE W/O PASSING	

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 FOR EQUALITIES _____ LIN. FT. NOT INCLUDED	ADDED FOR EQUALITIES _____ LIN. FT. NOT INCLUDED	ADDED FOR EQUALITIES _____ LIN. FT. NOT INCLUDED	ADDED FOR EQUALITIES _____ LIN. FT. NOT INCLUDED	ADDED 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.

**RIGHT OF WAY  
PLANS**

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**CONVENTIONAL SIGNS**



**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION	SHEET NO.	DESCRIPTION
1	INDEX / LEGEND SHEET/ UTILITY REFERENCES	21-24	PLAN SHEETS (20 SCALE)
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
14	PLAN SHEET	45-52	PIPE SECTIONS - MAINLINE
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

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

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

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

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

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

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

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

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

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

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

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 :

**BACON | FARMER | WORKMAN**  
 ENGINEERING & TESTING, INC.

1101 MARKET STREET  
 MURRAY, KY 42071  
 PHONE: 270.762.0336

1101 MARKET STREET  
 MURRAY, KY 42071  
 PHONE: 270.762.0336

WWW.BFWENGINEERS.COM

LEGEND, UTILITY CONTACTS & INDEX OF SHEETS

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

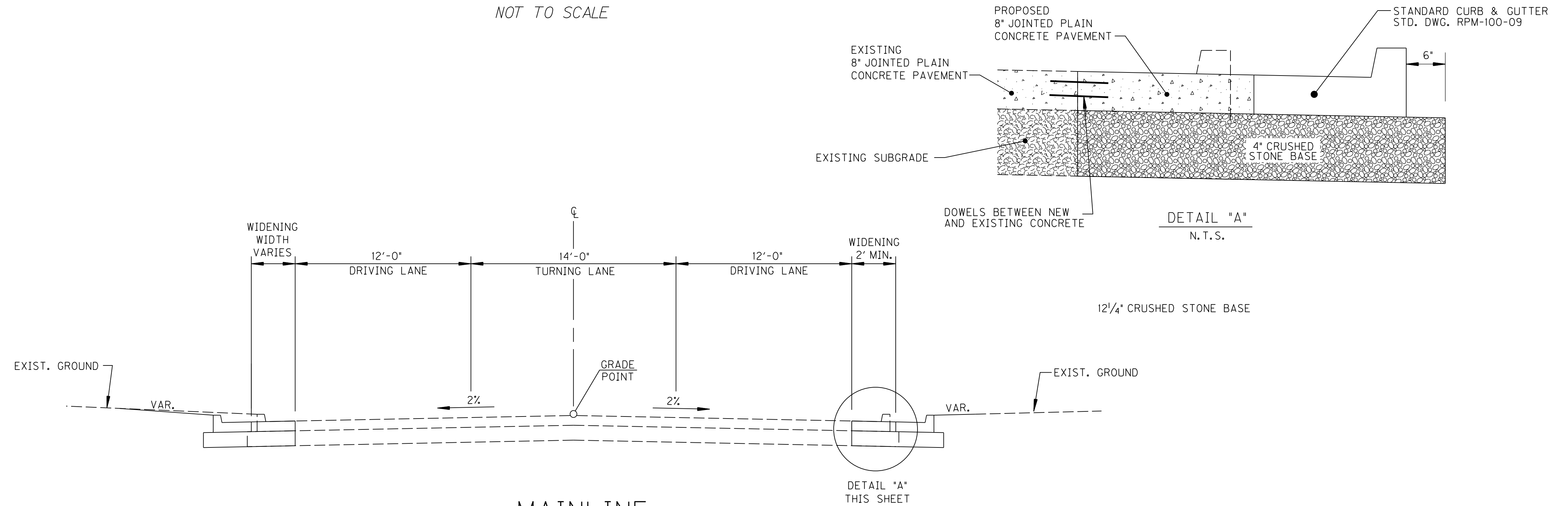
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# TYPICAL SECTIONS

NOT TO SCALE

## PAVEMENT

- 4" CRUSHED STONE BASE
- 8" JOINTED PLAIN CONCRETE PAVEMENT



## MAINLINE CONCRETE CURB AND GUTTER SECTION

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

## PAVEMENT

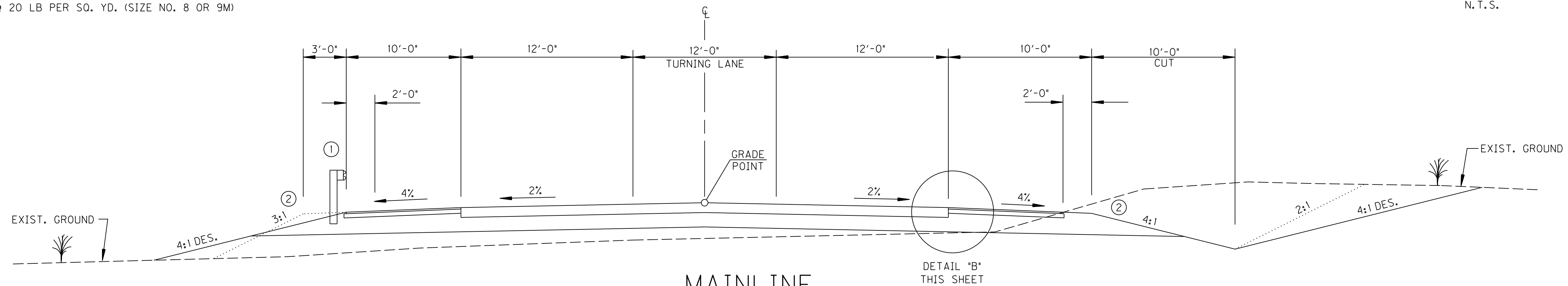
- 4" CRUSHED STONE BASE
- 8" JOINTED PLAIN CONCRETE PAVEMENT

## SHOULDERS

- FULL DEPTH CRUSHED STONE BASE
- 3" ASPHALT BASE, CLASS 2 0.75D PG 64-22
- 1/4" 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 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**

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

BACON | FARMER | WORKMAN  
ENGINEERING & TESTING, INC.

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

WWW.BFWENGINEERS.COM

TYPICALS

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

SHEET  
**2**

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**PAVEMENT**

- 12" CRUSHED STONE BASE
- 6" ASPHALT BASE (3" + 3"), CLASS 2 0.75D PG 64-22
- 1/4" ASPHALT SURFACE, CLASS 2 0.38D PG 64-22

**SHOULDERS**

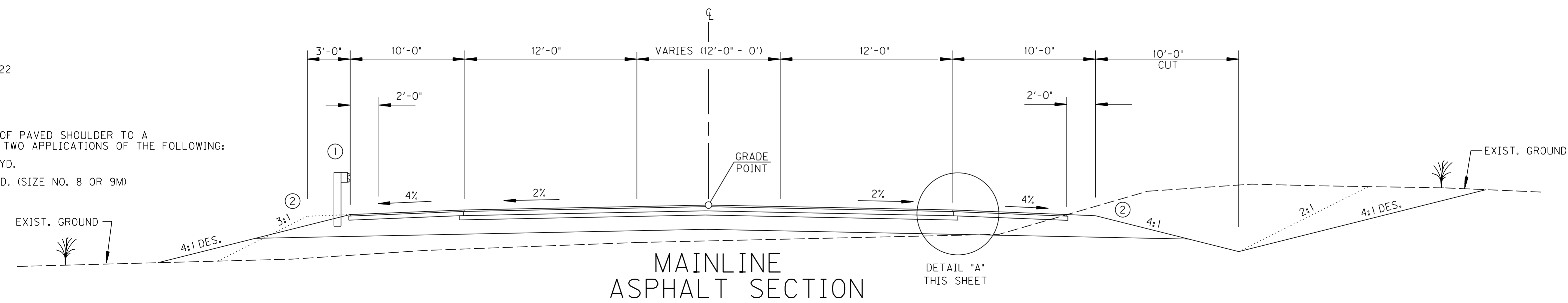
- FULL DEPTH CRUSHED STONE BASE
- 3" ASPHALT BASE, CLASS 2 0.75D PG 76-22
- 1/4" ASPHALT SURFACE, CLASS 2 0.38D PG 64-22

**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)

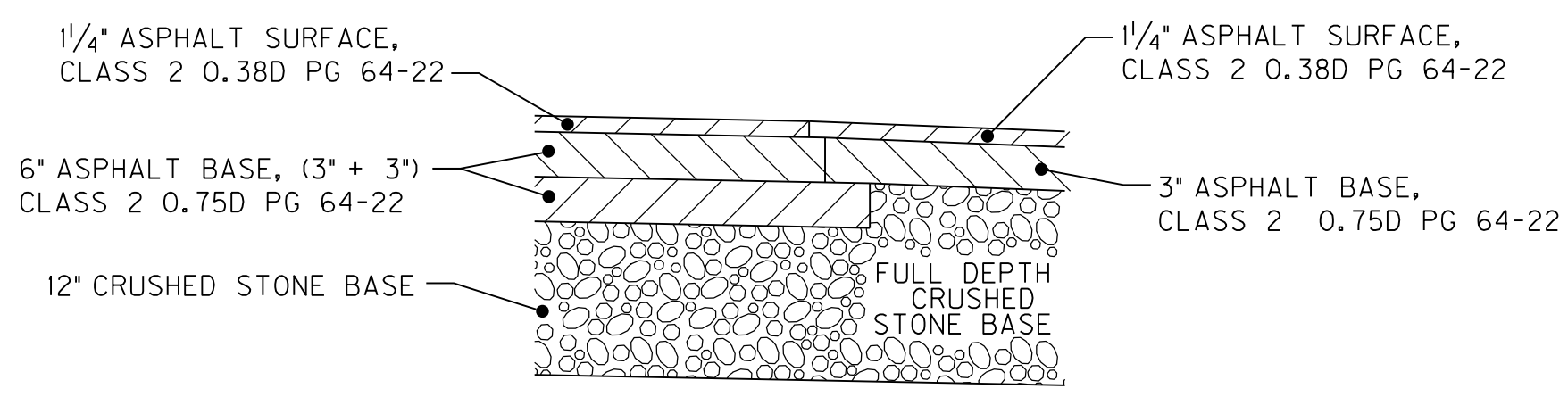
# TYPICAL SECTIONS

NOT TO SCALE

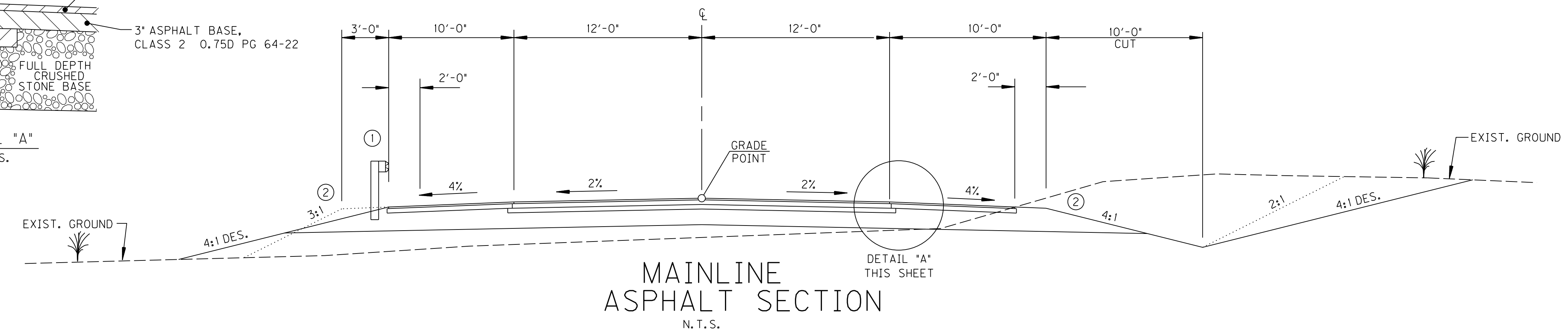


**MAINLINE ASPHALT SECTION**  
N.T.S.

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



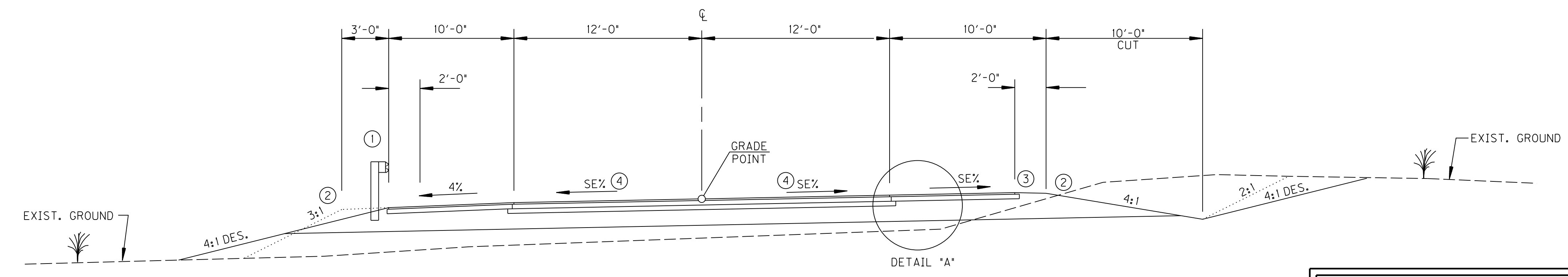
**DETAIL "A"**  
N.T.S.



**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**

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

**BACON | FARMER | WORKMAN**  
ENGINEERING & TESTING, INC.

**BFW**

1000 W. MARKET STREET  
MURRAY, KY 40271  
PHONE: 502.333.2207  
FAX: 502.333.2208  
WWW.BFWENGINEERS.COM

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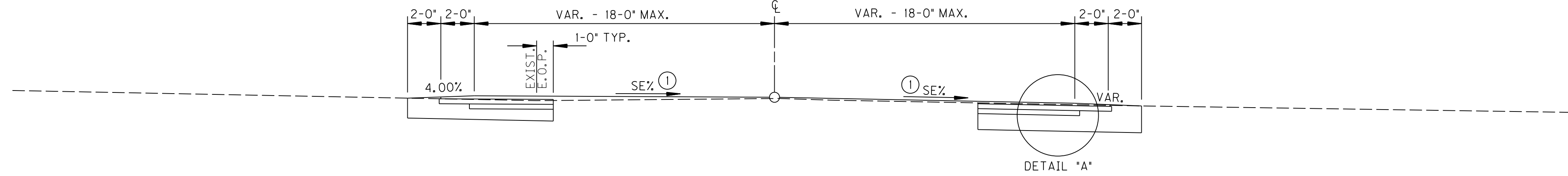
**TYPICALS**

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

SHEET  
**3**

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# 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**

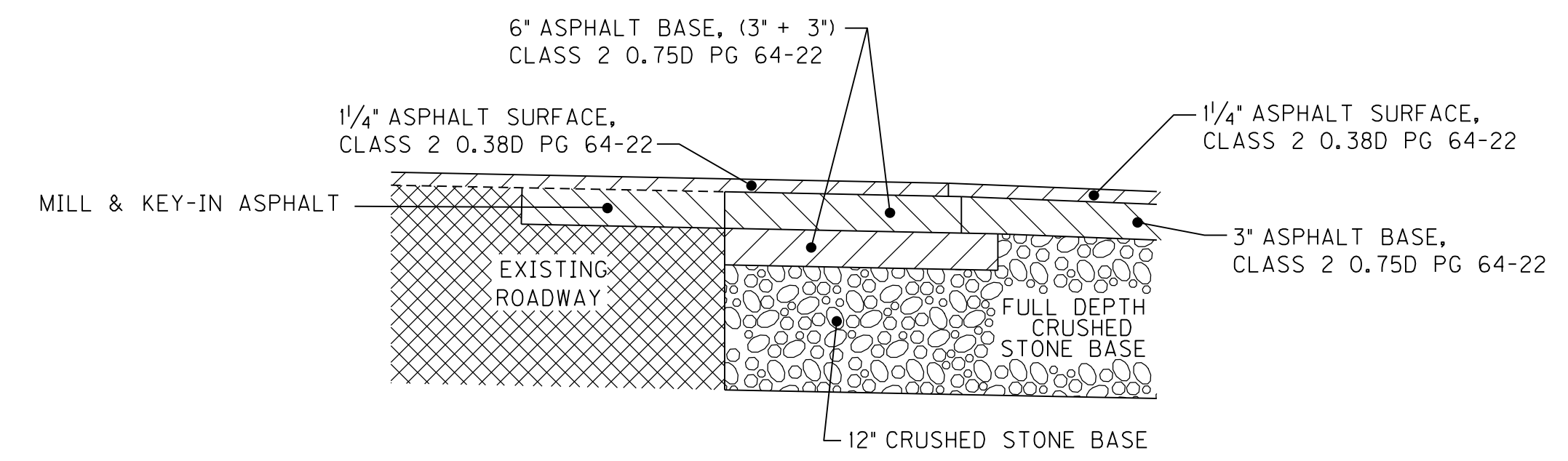
- 12" CRUSHED STONE BASE
- 6" ASPHALT BASE (3" + 3"), CLASS 2 0.75D PG 64-22
- 1/4" ASPHALT SURFACE, CLASS 2 0.38D PG 64-22

**SHOULDERS**

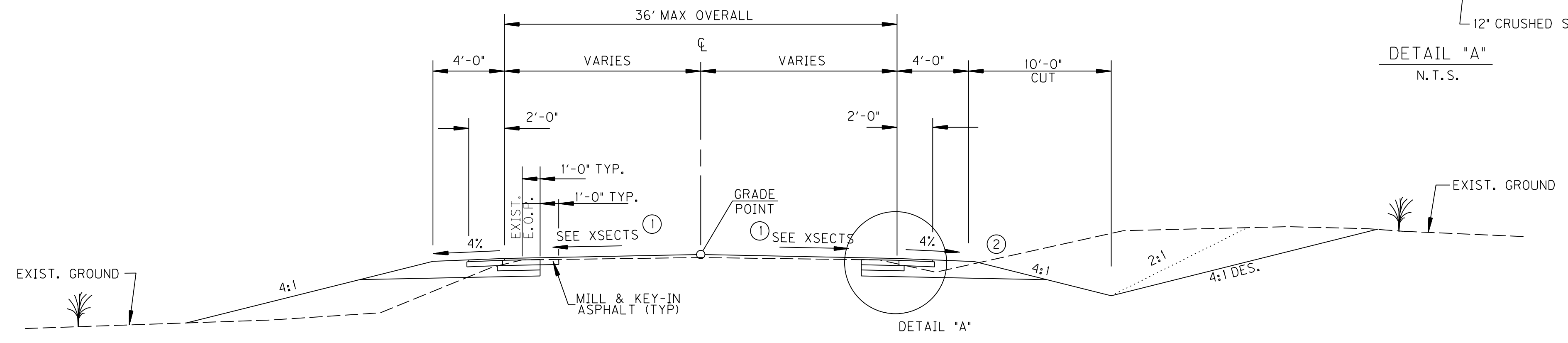
- FULL DEPTH CRUSHED STONE BASE
- 3" ASPHALT BASE, CLASS 2 0.75D PG 76-22
- 1/4" ASPHALT SURFACE, CLASS 2 0.38D PG 64-22

**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"**  
N.T.S.



**CROSS ROAD  
OVERLAY AND WIDENING SECTION**  
N.T.S.  
KY. 121 / US 641x  
KY. 94

① SEE CROSS SECTIONS FOR SLOPES

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

**BACON | FARMER | WORKMAN**  
ENGINEERING & TESTING, INC.

**BFW**

REGISTERED PROFESSIONAL ENGINEER  
MURRAY, KY 40371  
PHONE: 502.833.2207  
FAX: 502.833.2207  
WWW.BFWENGINEERS.COM

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**TYPICALS**

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

**RIGHT OF WAY  
PLANS**

**SHEET  
4**

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# TYPICAL SECTIONS

## PAVEMENT

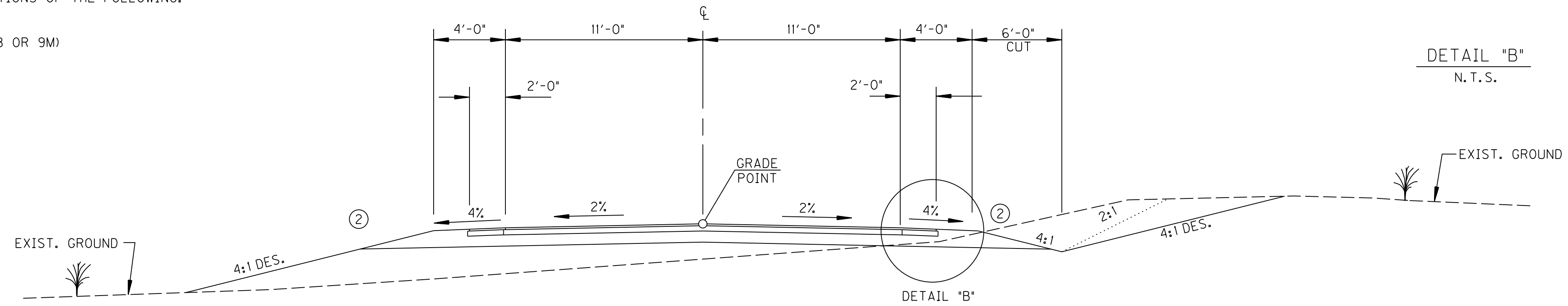
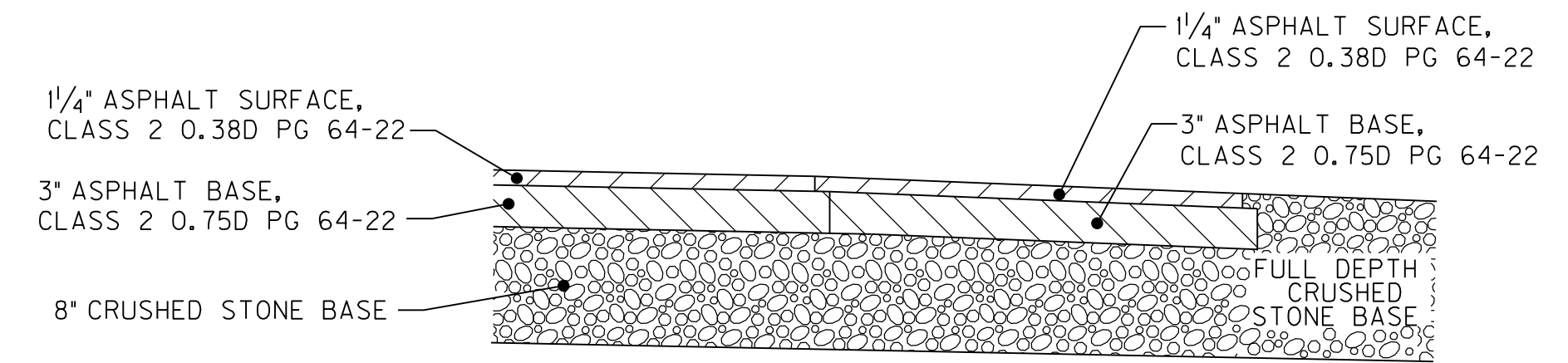
- 8" CRUSHED STONE BASE
- 3" ASPHALT BASE, CLASS 2 0.75D PG 64-22
- 1/4" ASPHALT SURFACE, CLASS 2 0.38D PG 64-22

## SHOULDERS

- FULL DEPTH CRUSHED STONE BASE
- 3" ASPHALT BASE, CLASS 2 0.75D PG 64-22
- 1/4" ASPHALT SURFACE, CLASS 2 0.38D PG 64-22

## ASPHALT SEAL

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



## CROSS ROAD NORMAL SECTION

N. T. S.

RIVER ROAD OLD CONCORD ROAD  
 STA. 50+12.18 - STA. 53+40.00 STA. 57+62.91 - STA. 62+50.00

SYCAMORE INDUSTRIAL ROAD

## PAVEMENT

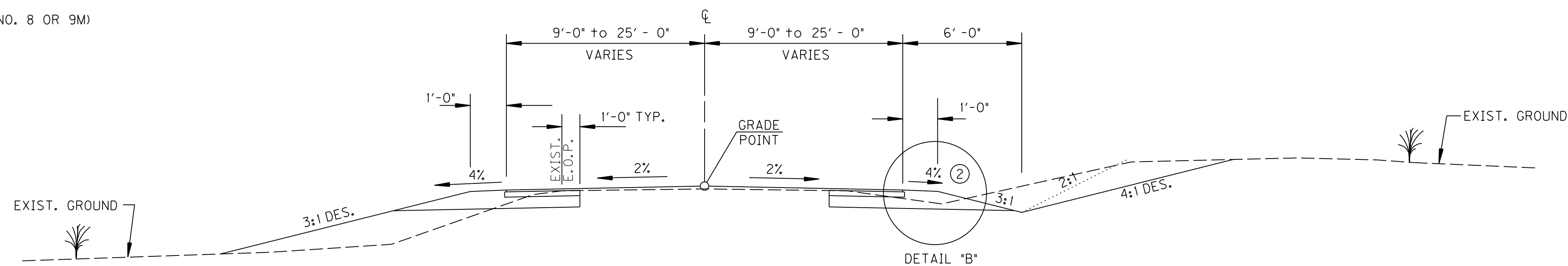
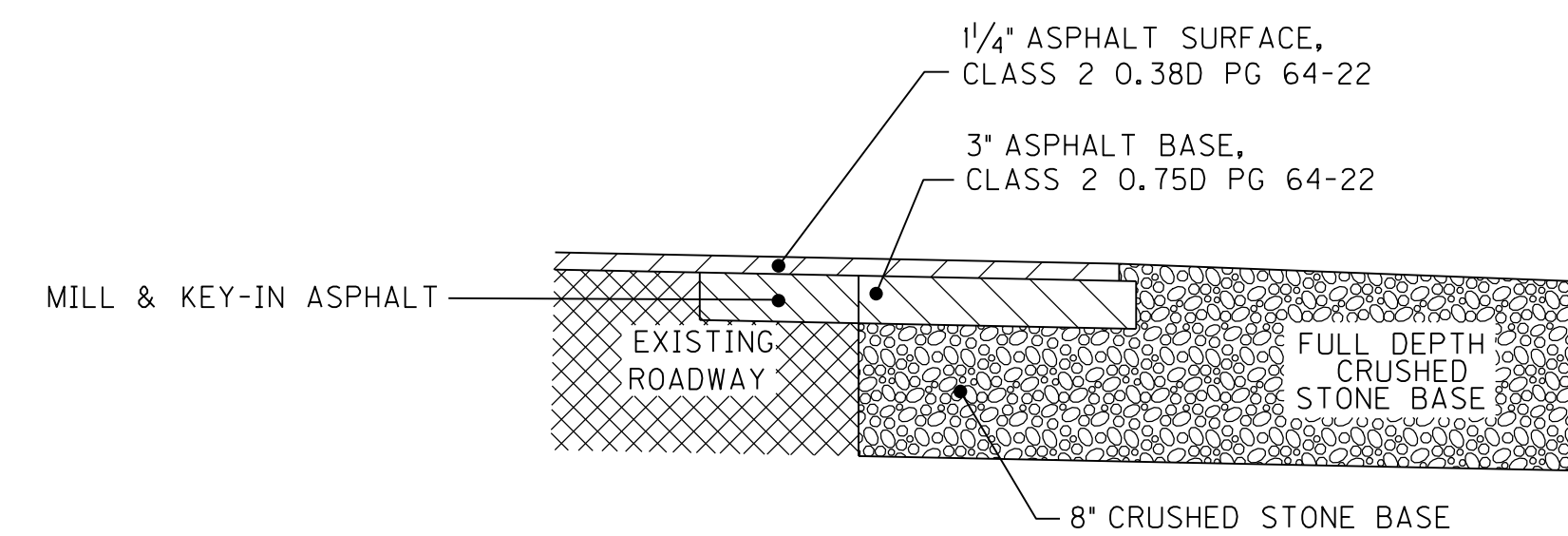
- 8" CRUSHED STONE BASE
- 3" ASPHALT BASE, CLASS 2 0.75D PG 64-22
- 1/4" ASPHALT SURFACE, CLASS 2 0.38D PG 64-22

## SHOULDERS

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## ASPHALT SEAL

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  - 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

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

BACON | FARMER | WORKMAN  
 ENGINEERING & TESTING, INC.  
 104 NORTH 5TH STREET  
 MURRAY, KY 40371  
 (502) 251-1234  
 WWW.BFWENGINEERS.COM



TYPICALS

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

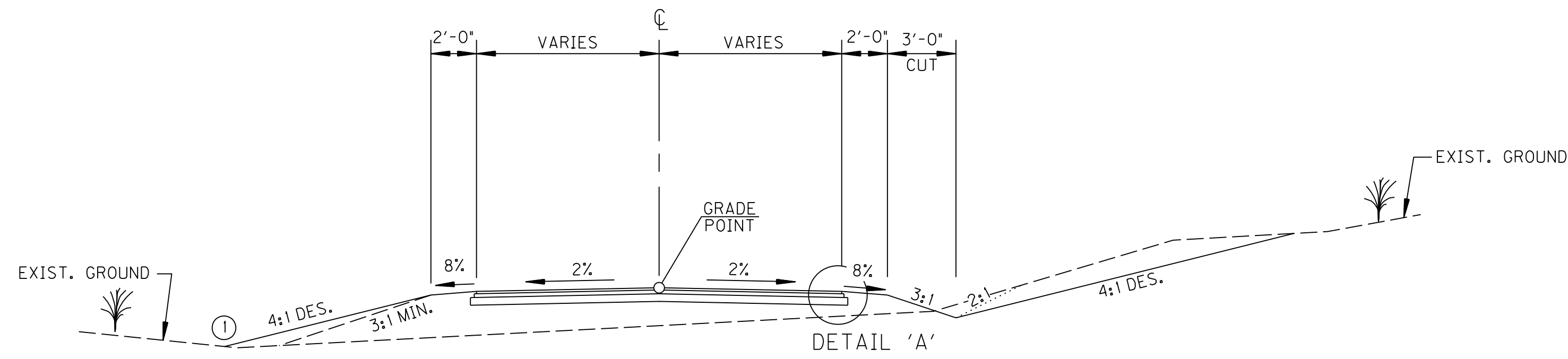
**RIGHT OF WAY  
 PLANS**

SHEET  
**5**

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# TYPICAL SECTIONS

NOT TO SCALE

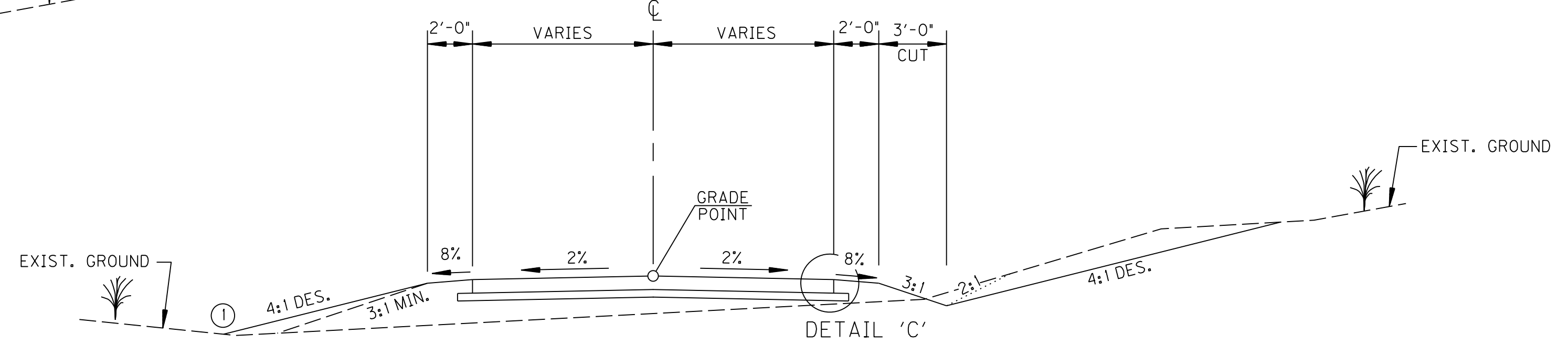


RESIDENTIAL/COMMERCIAL FLEXIBLE PAVEMENT ENTRANCE SECTION  
N.T.S.

LT. STA. 54+50.00 US 64X / 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.

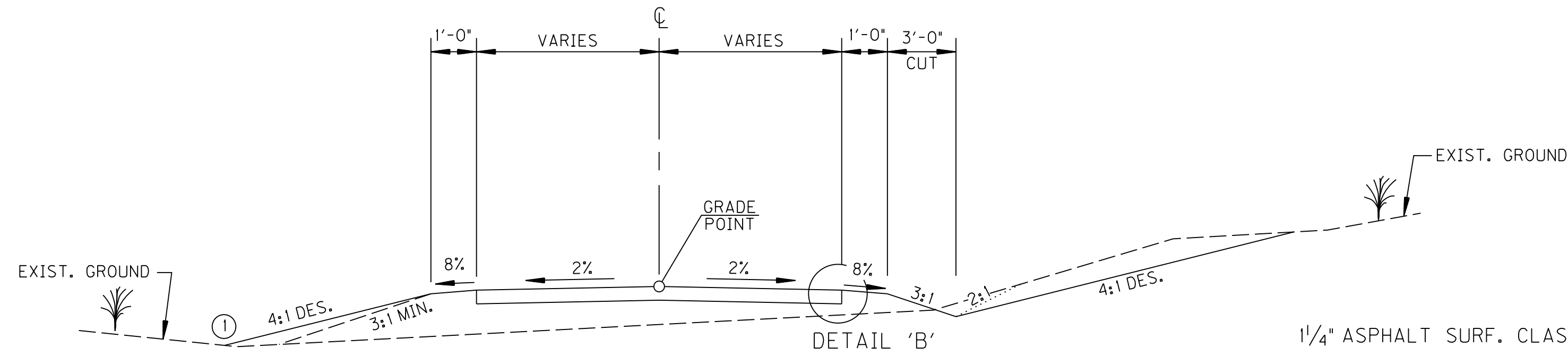
LT. STA. 16+80.00 KY 94  
RT. STA. 17+76.00 KY 94  
RT. STA. 58+50.00 SYCAMORE INDUSTRIAL RD.  
LT. STA. 58+50.00 SYCAMORE INDUSTRIAL RD.  
LT. STA. 57+90.00 OLD CONCORD RD.  
RT. STA. 58+00.00 OLD CONCORD RD.  
RT. STA. 63+25.00 OLD CONCORD RD.  
LT. STA. 77+35.00 MAINLINE

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



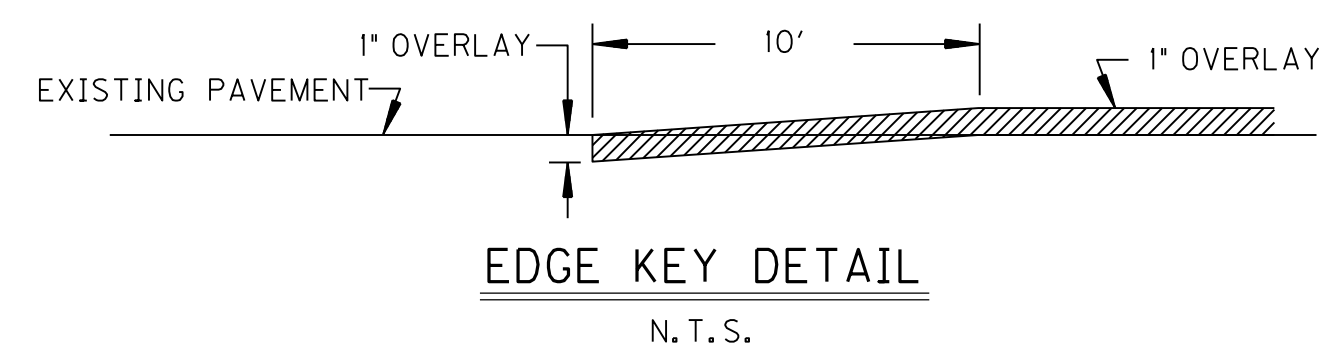
RESIDENTIAL/COMMERCIAL CONCRETE ENTRANCE SECTION  
N.T.S.

RT. STA. 52+58.47 US 64X / KY 121  
LT. STA. 52+70.09 US 64X / KY 121  
LT. STA. 53+30.49 US 64X / KY 121  
LT. STA. 54+30.49 US 64X / KY 121  
RT. STA. 54+29.92 US 64X / 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



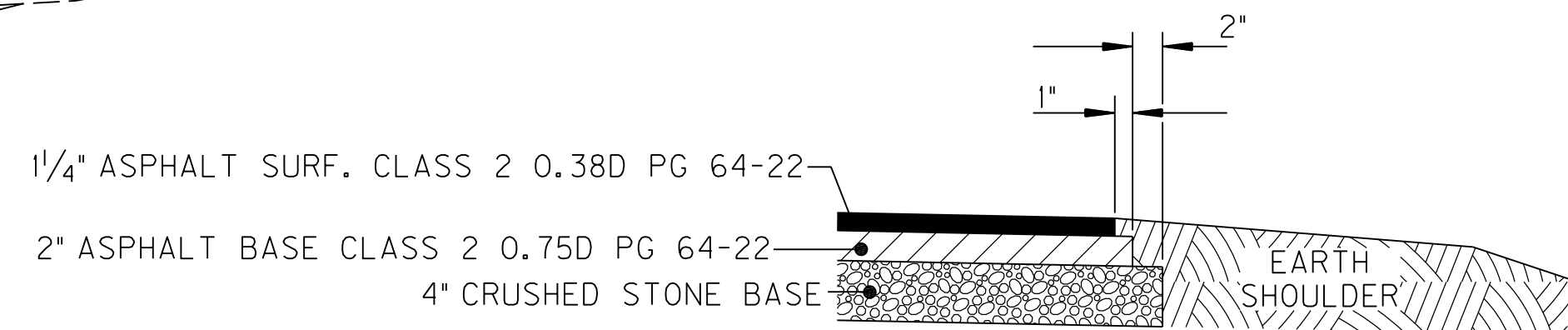
FIELD ENTRANCE SECTION  
N.T.S.

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

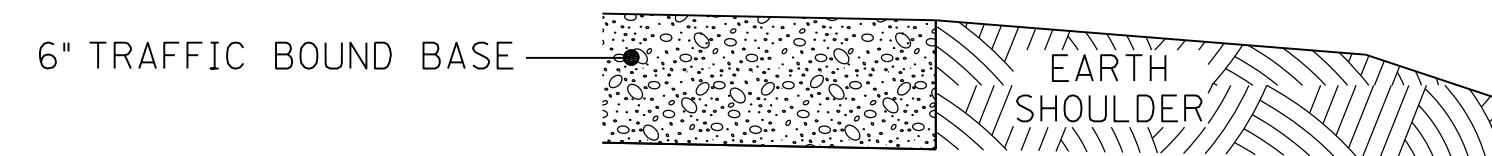


EDGE KEY DETAIL  
N.T.S.

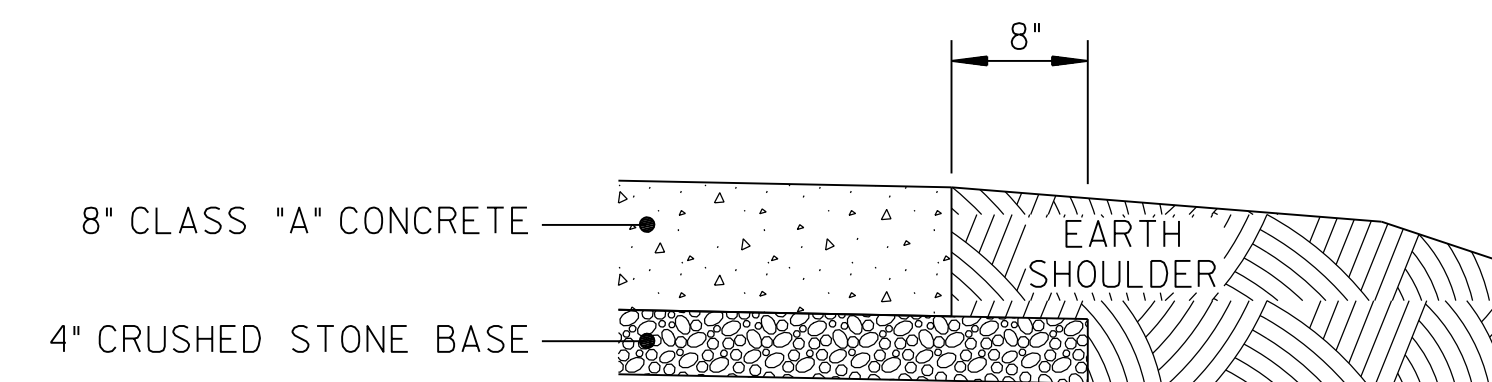
WORK UNDER THIS ITEM SHALL INCLUDE CUTTING OUT THE EXISTING ASPHALT SURFACE TO A MINIMUM DEPTH AND WIDTH AS SHOWN, SO THE NEW SURFACE MAY HEEL INTO THE EXISTING SURFACE. THE CONTRACT UNIT PRICE BID PER LINEAR FOOT FOR "EDGE KEY" SHALL INCLUDE ALL NECESSARY MATERIALS, LABOR, EQUIPMENT, ETC. TO PERFORM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

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

BACON FARMER WORKMAN ENGINEERING & TESTING, INC.



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

SHEET  
**6**

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## 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 I	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**

PROJECT NO. : \_\_\_\_\_ DATE: \_\_\_\_\_

DRAWING BY: \_\_\_\_\_

REVISION DATES: \_\_\_\_\_

REVISION NOTES: \_\_\_\_\_

**BACON | FARMER | WORKMAN**  
 ENGINEERING & TESTING, INC.

1070 BRIMLEY DRIVE • MURRAY, KY 40371 • PHONE: 270.443.9900  
 104 N. MURRAY STREET • MURRAY, KY 40371 • PHONE: 270.443.9900

WWW.BACONFARMER.COM

GENERAL SUMMARY

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

SHEET  
**6A**



### 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													
3 1/2" ASPHALT BASE, CLASS I 0.75D PG 64-22													
3 1/2" 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. : \_\_\_\_\_  
 DATE: \_\_\_\_\_

DRAWING BY: \_\_\_\_\_  
 REVISION DATES: \_\_\_\_\_  
 REVISION NOTES: \_\_\_\_\_

**BACON | FARMER | WORKMAN**  
 ENGINEERING & TESTING, INC.

**BFW**

1020 BRIMLEY DRIVE • MURRAY, KY 42071 • PHONE: 270.443.2907  
 800 SOUTH 10TH STREET • MURRAY, KY 42071 • PHONE: 270.443.1996

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

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.		L I N E A R   F E E T																							
8	LT STA. 52+30 KY 121			M														15										
8	RT. STA. 53+00 KY 121			M														62							I			
8	LT. STA. 53+00 KY 121			M														63							I			
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																								
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																								
21	RT. STA. 58+00 OLD CONCORD	0°	1.0	M																								
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

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

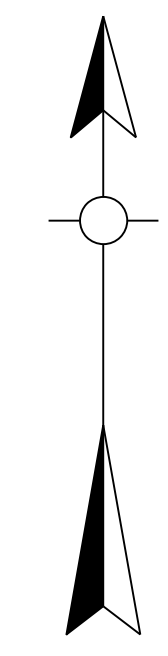
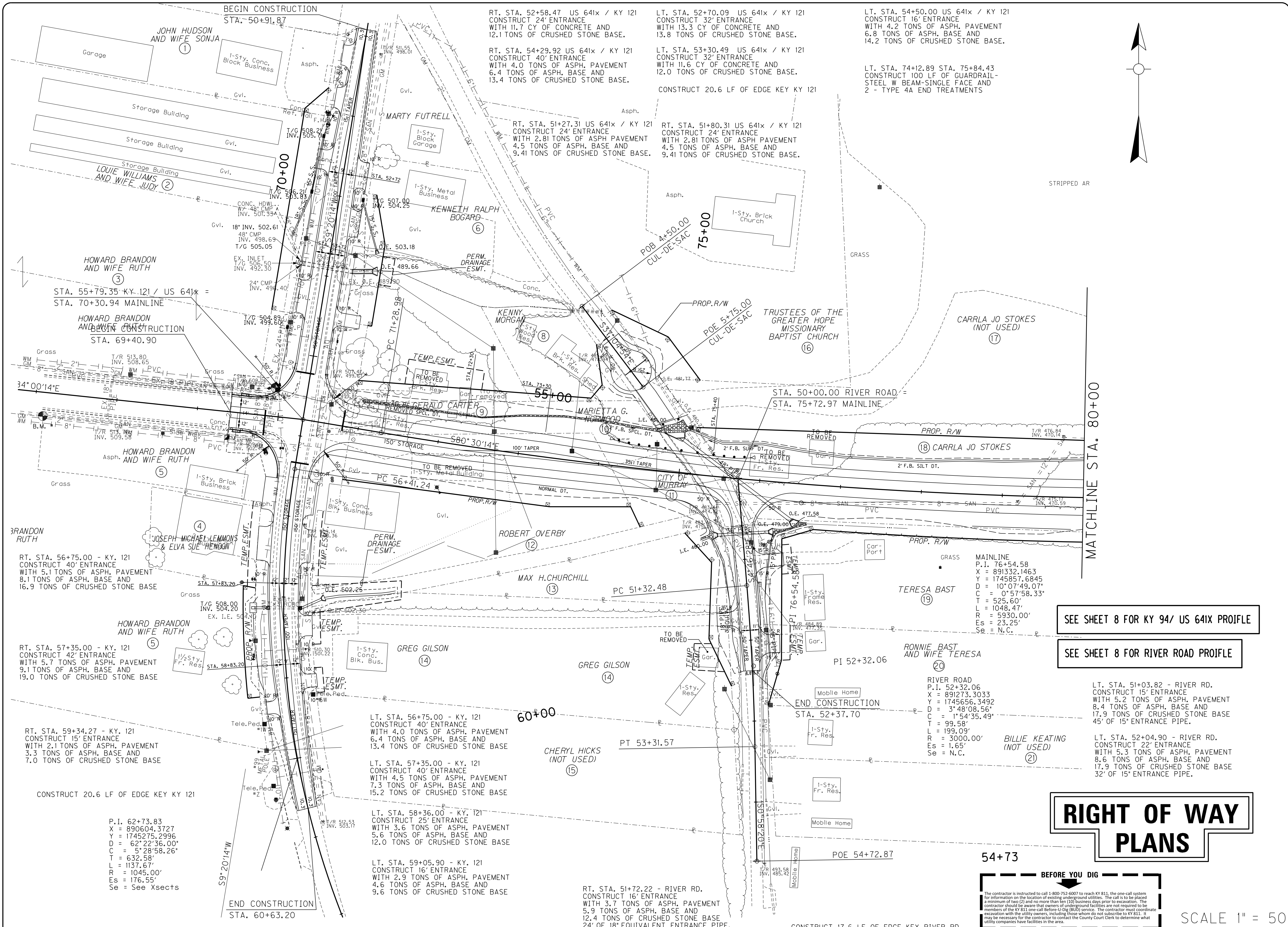
SHEET  
6C

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

DATE:

**BFW**  
BACON FARMER WORKMAN  
ENGINEERING & TESTING, INC.  
1100 BROADWAY DRIVE  
MURRAY, KY 40339  
PHONE: 270.637.9201

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STRIPPED AR

MATCHLINE STA. 80+00

SEE SHEET 8 FOR KY 94/ US 64IX PROFILE

SEE SHEET 8 FOR RIVER ROAD PROFILE

# 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-dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those who 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'

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

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.

RT. STA. 52+58.47 US 64IX / 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 64IX / 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 64IX / KY 121  
CONSTRUCT 32' ENTRANCE  
WITH 13.3 CY OF CONCRETE AND  
13.8 TONS OF CRUSHED STONE BASE.

LT. STA. 54+50.00 US 64IX / 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.

RT. STA. 51+27.31 US 64IX / 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+27.31 US 64IX / 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.

CONSTRUCT 20.6 LF OF EDGE KEY KY 121

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.

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

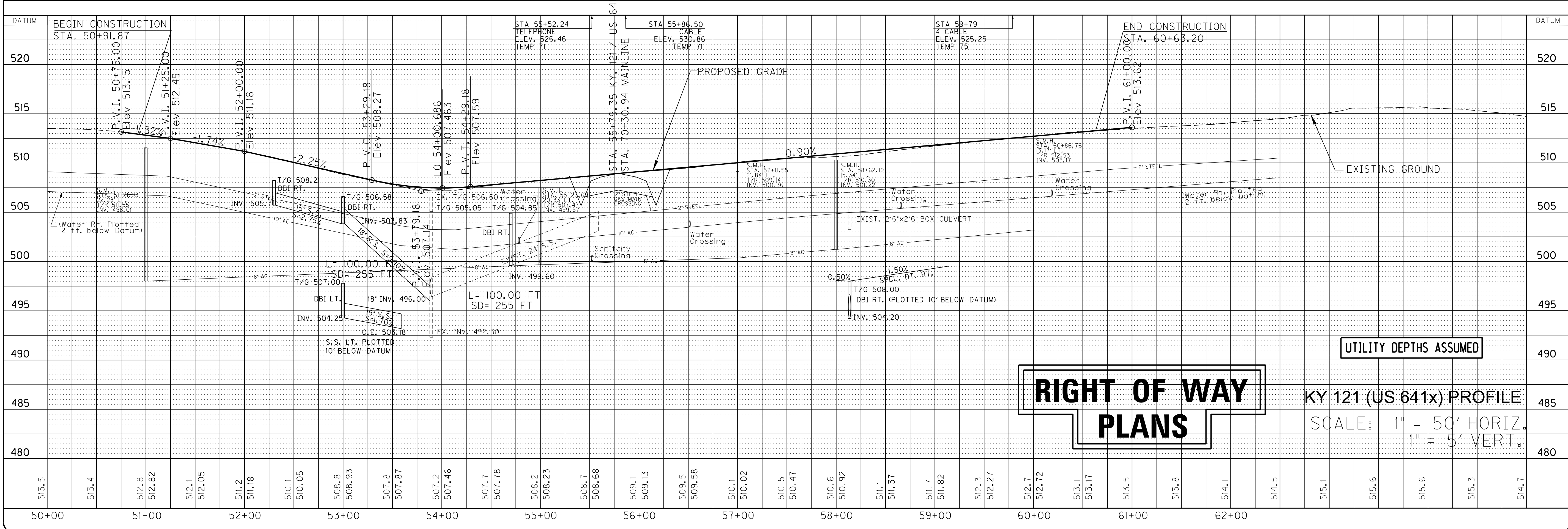
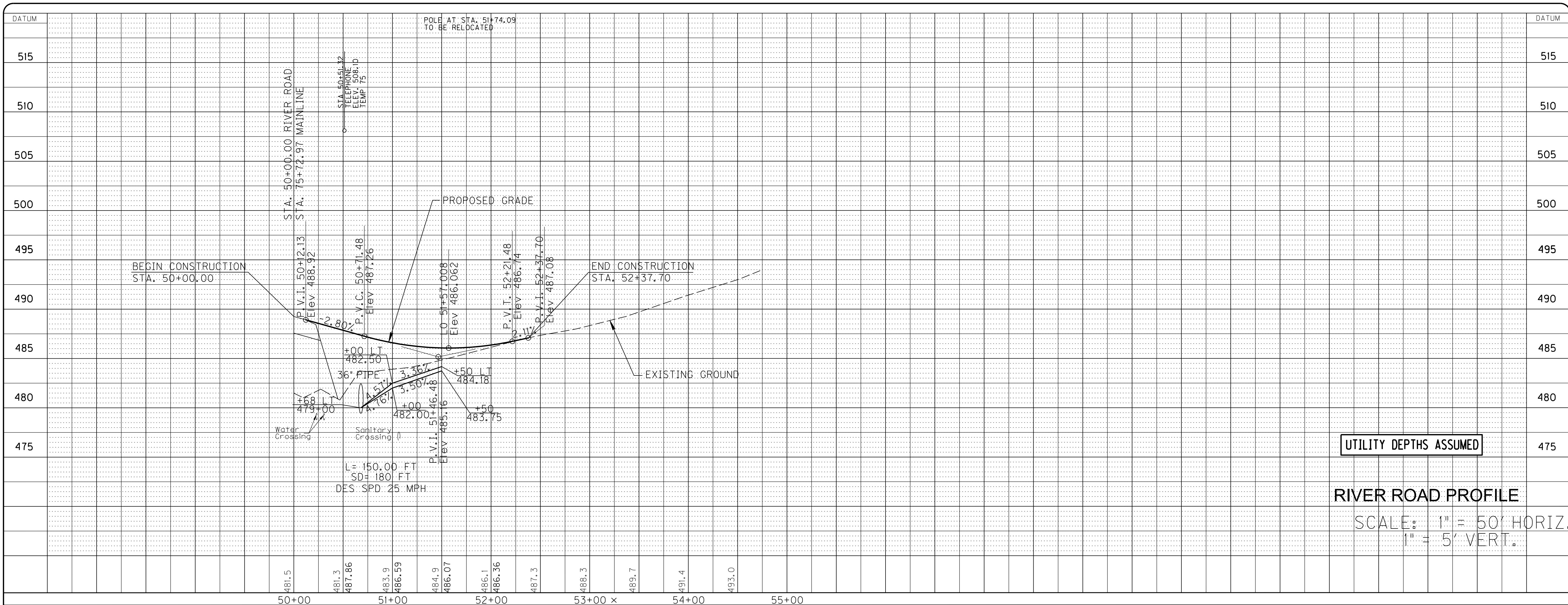
DATE:  
BACON | FARMER | WORKMAN  
ENGINEERING & TESTING, INC.  
BACON | FARMER | WORKMAN  
ENGINEERING & TESTING, INC.  
1000 W. MAIN STREET  
MURRAY, KY 40375  
PHONE: 270.643.1995  
FAX: 270.643.1996  
WWW.BFWENGINEERS.COM



PLAN - B.O.P. TO STA. 80+00  
MURRAY BUSINESS LOOP  
CITY OF MURRAY  
104 NORTH 5TH STREET  
MURRAY, KY 42071

SHEET  
7

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PROJECT NO.: 65083  
DATE:

DRAWING BY:  
REVISION DATES:  
REVISION NOTES:

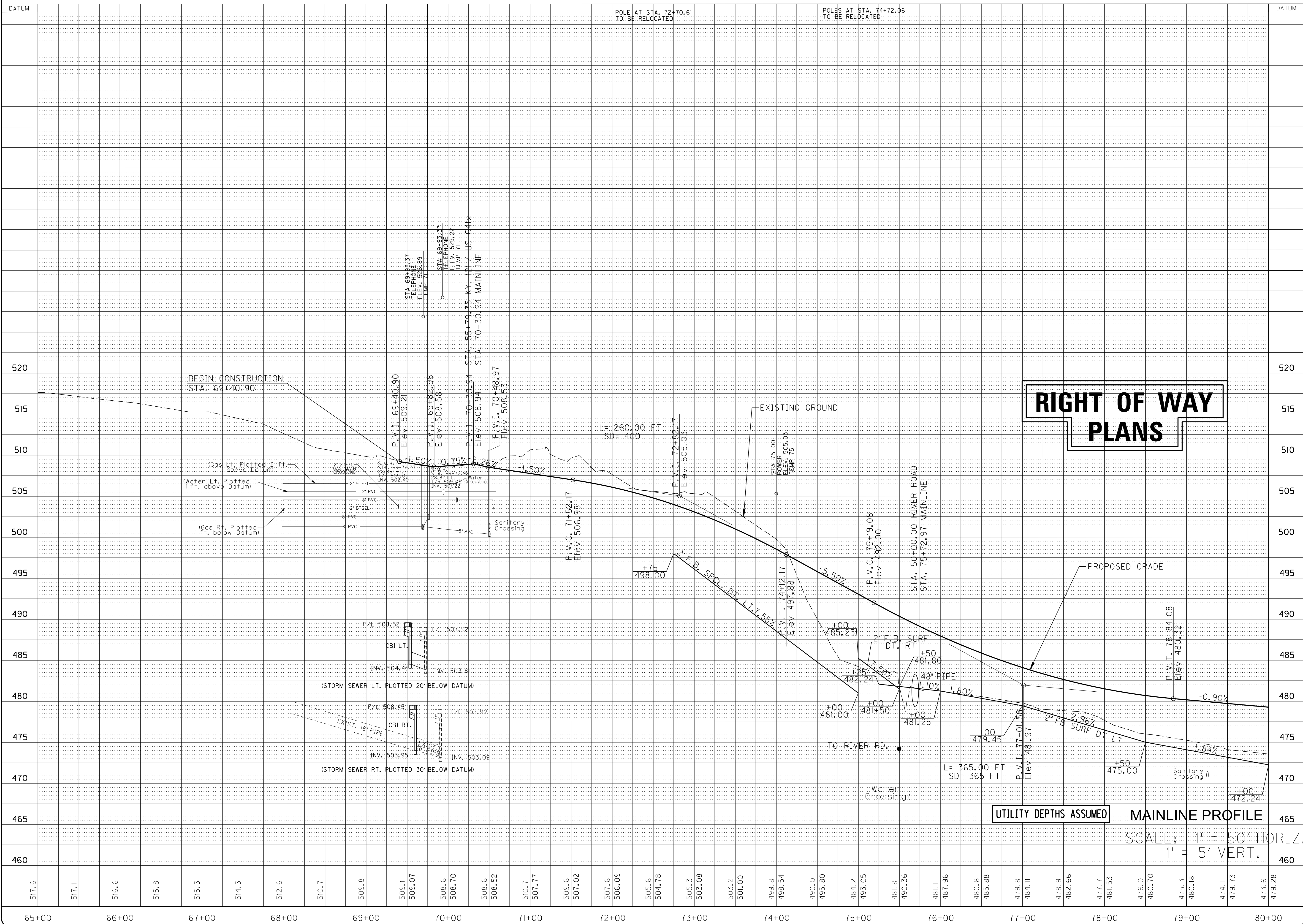
BACON | FARMER | WORKMAN  
ENGINEERING & TESTING, INC.  
1000 W. UNIVERSITY BLVD.  
MURRAY, KY 40371  
PHONE: 502.333.2207  
FAX: 502.333.2208  
WWW.BFWENGINEERS.COM



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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**RIGHT OF WAY PLANS**

**UTILITY DEPTHS ASSUMED**  
**MAINLINE PROFILE**  
SCALE: 1" = 50' HORIZ.  
1" = 5' VERT.

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

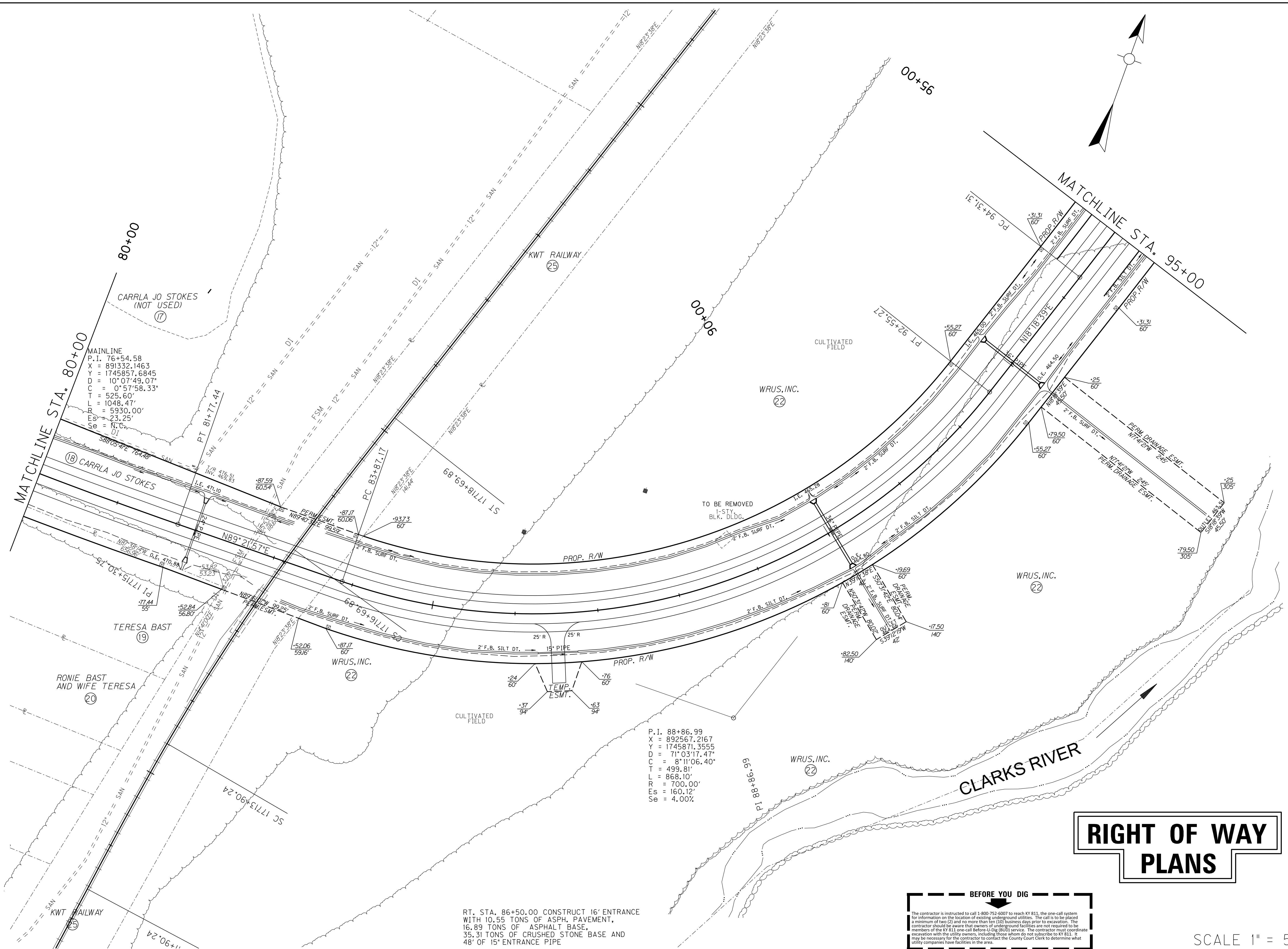
DATE :  
DATE :  
DATE :  
DATE :

BACON FARMER WORKMAN  
ENGINEERING & TESTING, INC.

1004 NORTH 5TH STREET  
MURRAY, KY 42071  
PHONE: 275.753.2027  
FAX: 275.753.2028  
WWW.BACONFARMER.COM

PROFILE - B.O.P. TO STA. 80+00  
MURRAY BUSINESS LOOP  
CITY OF MURRAY  
104 NORTH 5TH STREET  
MURRAY, KY 42071  
**9**  
SHEET

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MAINLINE  
 P.I. = 76+54.58  
 X = 891332.1463  
 Y = 1745857.6845  
 D = 10° 07' 49.07"  
 C = 915' 78.33"  
 T = 525.60'  
 L = 1048.47'  
 R = 5930.00'  
 Es = 23.25'  
 Se = N 12° 00' 00" E

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%

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-5-6 (B56) service. The contractor must coordinate excavation with the utility owners, including those who 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'

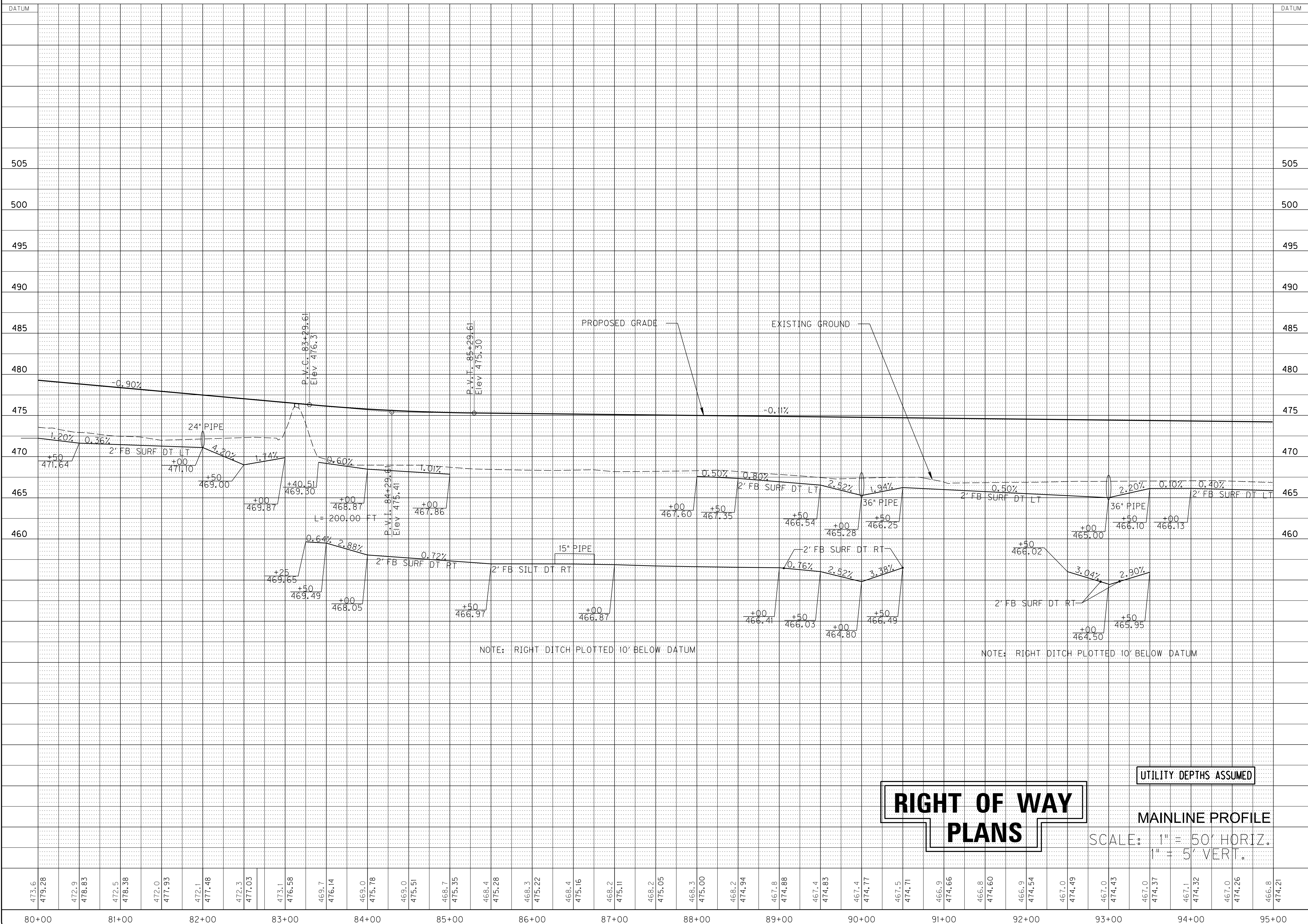
PROJECT NO.: 06093  
 DATE:  
 DRAWING BY:  
 REVISION DATES:  
 REVISION NOTES:

**BACON FARMER WORKMAN**  
 ENGINEERING & TESTING, INC.  
  
 104 NORTH 5TH STREET  
 MURRAY, KY 42071  
 PHONE: 502-233-2207  
 FAX: 502-233-2208  
 WWW.BFWENGINEERS.COM

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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NOTE: RIGHT DITCH PLOTTED 10' BELOW DATUM

NOTE: RIGHT DITCH PLOTTED 10' BELOW DATUM

**RIGHT OF WAY  
PLANS**

UTILITY DEPTHS ASSUMED

MAINLINE PROFILE

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

STATION	ELEVATION
473.6	473.6
479.28	479.28
472.9	472.9
478.83	478.83
472.5	472.5
478.38	478.38
472.0	472.0
477.93	477.93
472.1	472.1
477.48	477.48
472.3	472.3
477.03	477.03
473.1	473.1
476.58	476.58
469.7	469.7
476.14	476.14
469.0	469.0
475.78	475.78
469.0	469.0
475.51	475.51
468.7	468.7
475.35	475.35
468.4	468.4
475.28	475.28
468.3	468.3
475.22	475.22
468.4	468.4
475.16	475.16
468.2	468.2
475.05	475.05
468.3	468.3
475.00	475.00
468.2	468.2
474.94	474.94
467.8	467.8
474.88	474.88
467.4	467.4
474.83	474.83
467.4	467.4
474.77	474.77
467.5	467.5
474.71	474.71
466.9	466.9
474.66	474.66
466.8	466.8
474.60	474.60
466.9	466.9
474.54	474.54
467.0	467.0
474.49	474.49
467.0	467.0
474.43	474.43
467.0	467.0
474.37	474.37
467.1	467.1
474.32	474.32
467.0	467.0
474.26	474.26
466.8	466.8
474.21	474.21

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

BACON FARMER WORKMAN  
ENGINEERING & TESTING, INC.

**BFW**

11111 FARMER WORKMAN DRIVE  
MURRAY, KY 40371  
PHONE: (502) 231-1111  
FAX: (502) 231-1112  
WWW.BFWENGINEERS.COM

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PROFILE - STA. 80+00 TO S STA. 95+00

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

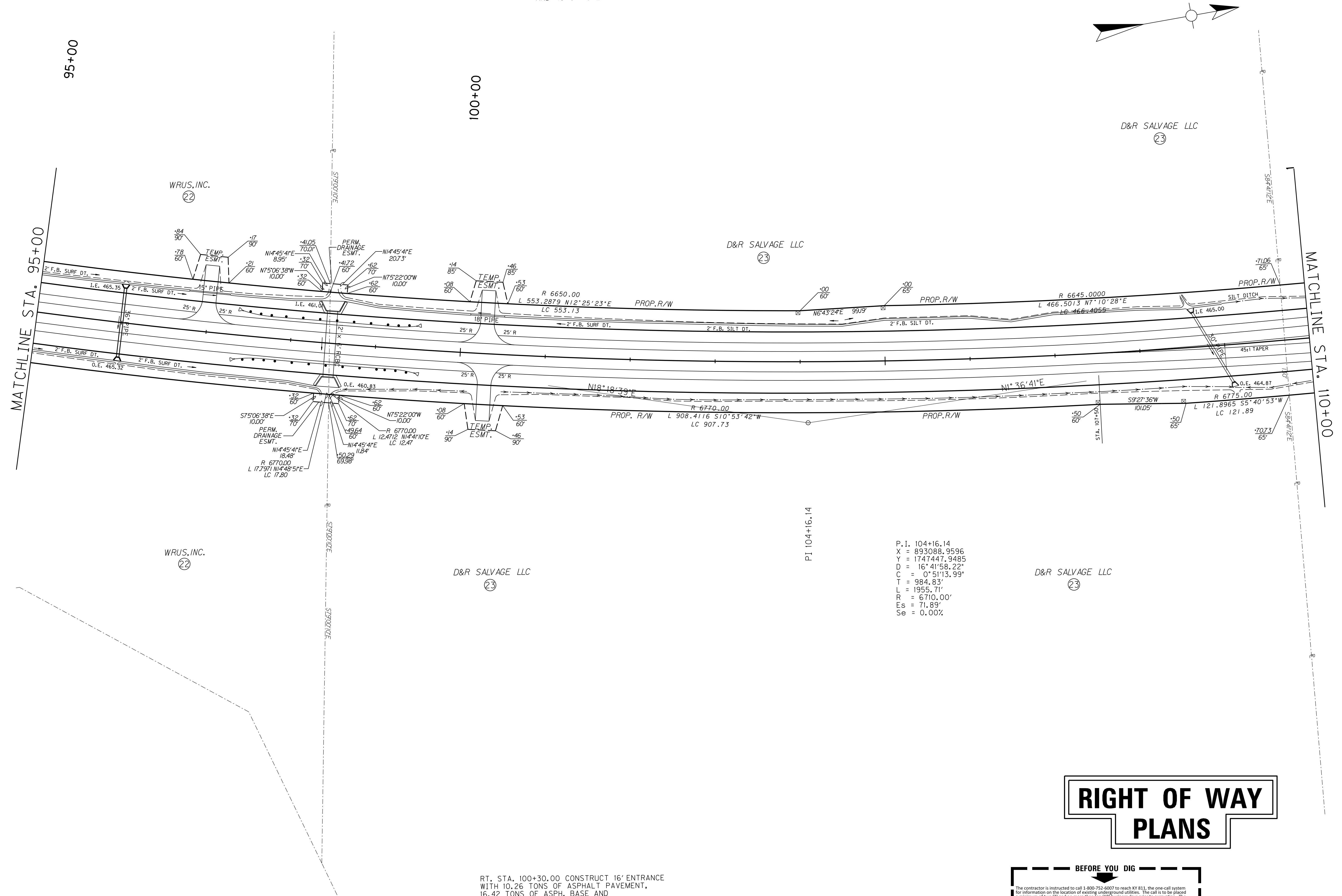
SHEET  
**11**

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LT. STA. 97+00.00 CONSTRUCT 16' ENTRANCE WITH 10.14 TONS OF ASPH. PAVEMENT, 16.26 TONS OF ASPH. BASE AND 34 TONS OF CRUSHED STONE BASE.

LT. STA. 100+30.00 CONSTRUCT 16' ENTRANCE WITH 9.67 TONS OF ASPH. PAVEMENT, 15.48 TONS OF ASPH. BASE, 32.36 TONS OF CRUSHED STONE BASE AND 40' OF 18" ENTRANCE PIPE.

RT. STA. 100+30.00 CONSTRUCT 16' ENTRANCE WITH 10.26 TONS OF ASPHALT PAVEMENT, 16.42 TONS OF ASPH. BASE AND 34.34 TONS OF CRUSHED STONE BASE.



# 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 (BU-DIG) 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 :  
 PROJECT NO. : 05093  
 DRAWING BY :  
 REVISION DATES :  
 REVISION NOTES :

**BACON | FARMER | WORKMAN**  
 ENGINEERING & TESTING, INC.

**BFW**

1000 W. PARKWAY DRIVE  
 MURRAY, KY 42071  
 PHONE: 270.452.1900  
 FAX: 270.452.1901  
 WWW.BFWENGINEERS.COM

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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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① STA 107+42.65  
ELECTRIC  
ELEV. 524.96  
TEMP 92'

② STA 108+41.44  
ELECTRIC  
ELEV. 491.48  
TEMP 92'

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

**BACON | FARMER | WORKMAN**  
ENGINEERING & TESTING, INC.

**BFW**

2117 HUNTERS LANE  
MURRAY, KY 42071  
PHONE: 270.441.9999

4140 W. CENTRAL STREET  
MURRAY, KY 42071  
PHONE: 270.441.9999

WWW.BFWENGINEERS.COM

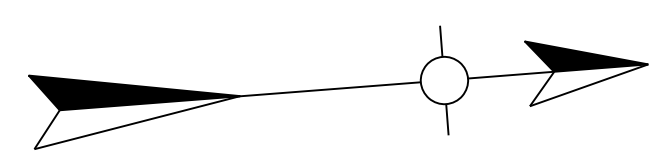
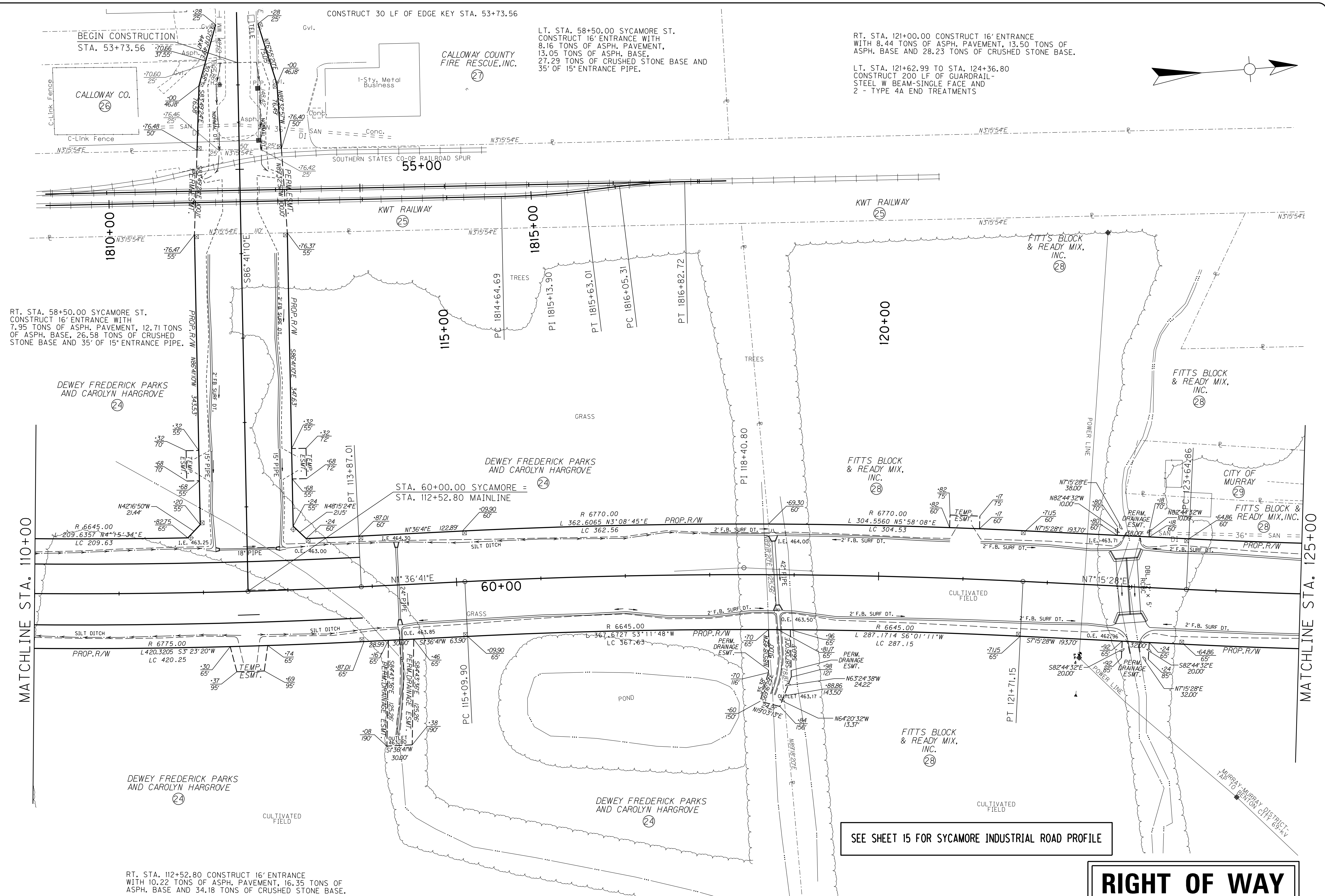
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**PROFILE - MAINLINE**

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

**SHEET**  
**13**

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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.

BEGIN CONSTRUCTION  
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

DEWEY FREDERICK PARKS  
AND CAROLYN HARGROVE (24)

DEWEY FREDERICK PARKS  
AND CAROLYN HARGROVE (24)

FITTS BLOCK  
& READY MIX,  
INC. (28)

FITTS BLOCK  
& READY MIX,  
INC. (28)

CITY OF MURRAY (29)

DEWEY FREDERICK PARKS  
AND CAROLYN HARGROVE (24)

DEWEY FREDERICK PARKS  
AND CAROLYN HARGROVE (24)

FITTS BLOCK  
& READY MIX,  
INC. (28)

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

SEE SHEET 15 FOR SYCAMORE INDUSTRIAL ROAD PROFILE

# RIGHT OF WAY PLANS

SCALE 1" = 50'

**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-a-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.

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

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

BACON FARMER WORKMAN  
ENGINEERING & TESTING, INC.

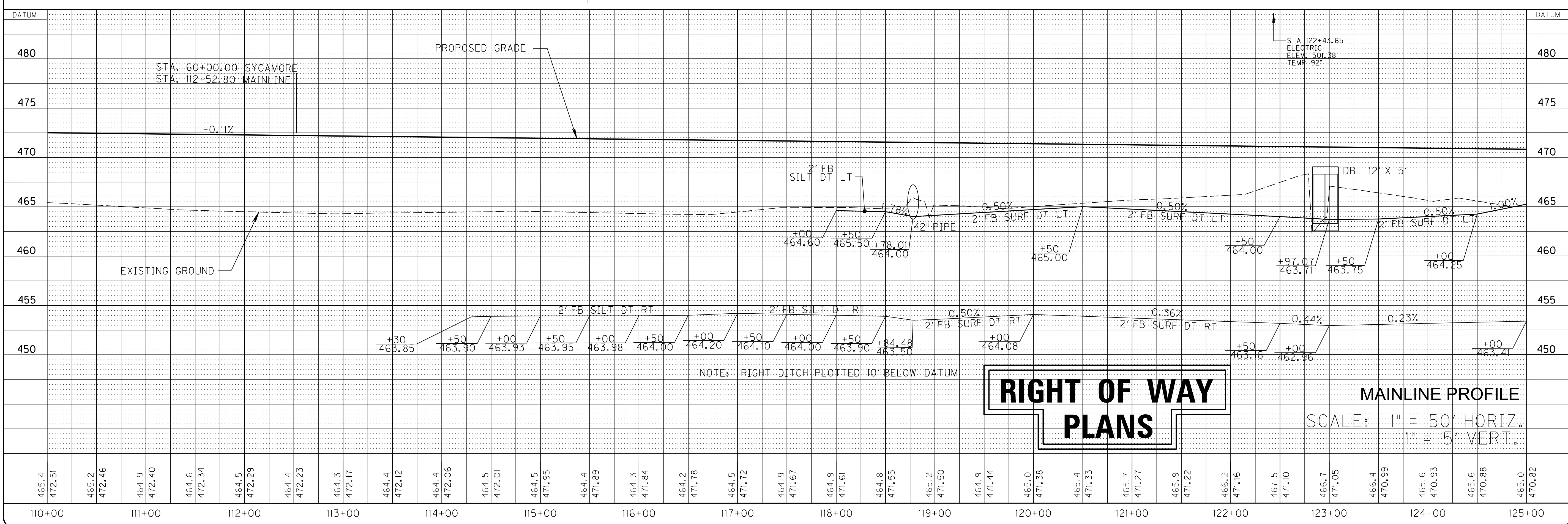
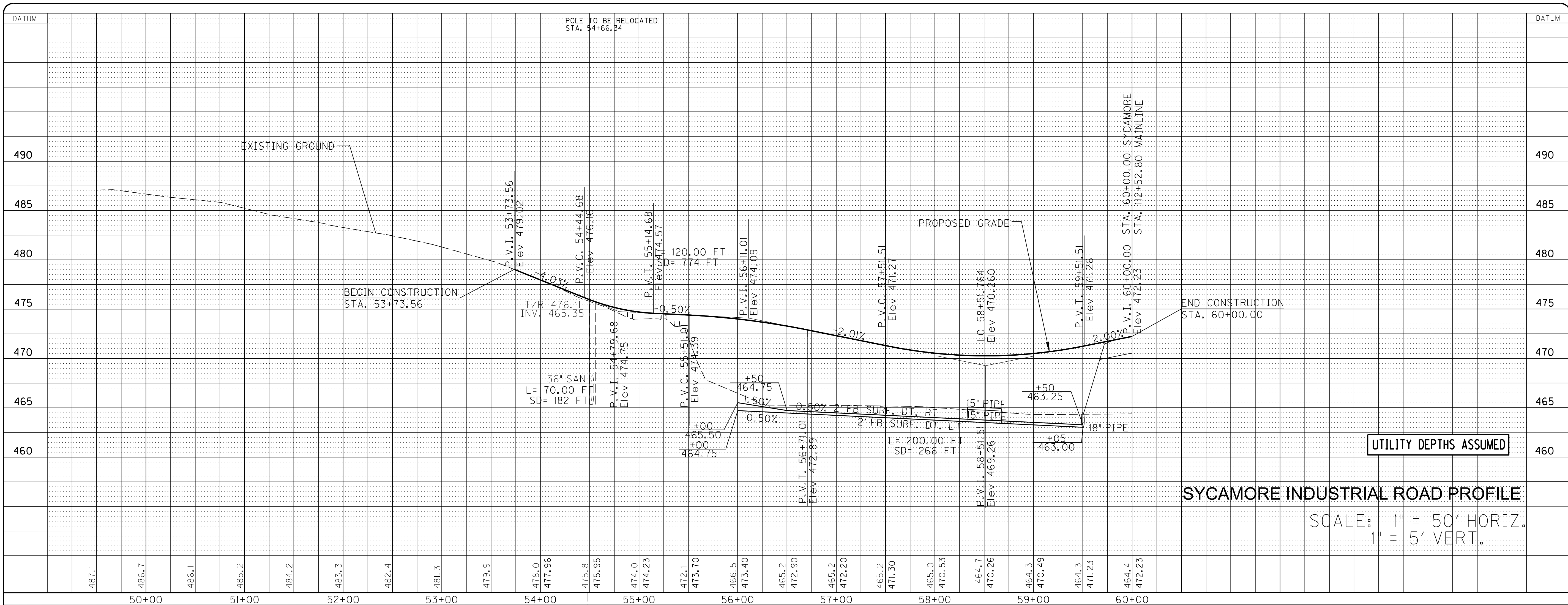
445 SOUTH COUNTY STREET  
MURRAY, KY 40375  
PHONE: (502) 253-2200  
FAX: (502) 253-2201

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www.bfw-engineering.com

PLAN - STA. 110+00 TO STA. 125+00  
MURRAY BUSINESS LOOP  
CITY OF MURRAY  
104 NORTH 5TH STREET  
MURRAY, KY 42071

SHEET  
**14**

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PROJECT NO.:  
DATE:

DRAWING BY:  
REVISION DATES:  
REVISION NOTES:

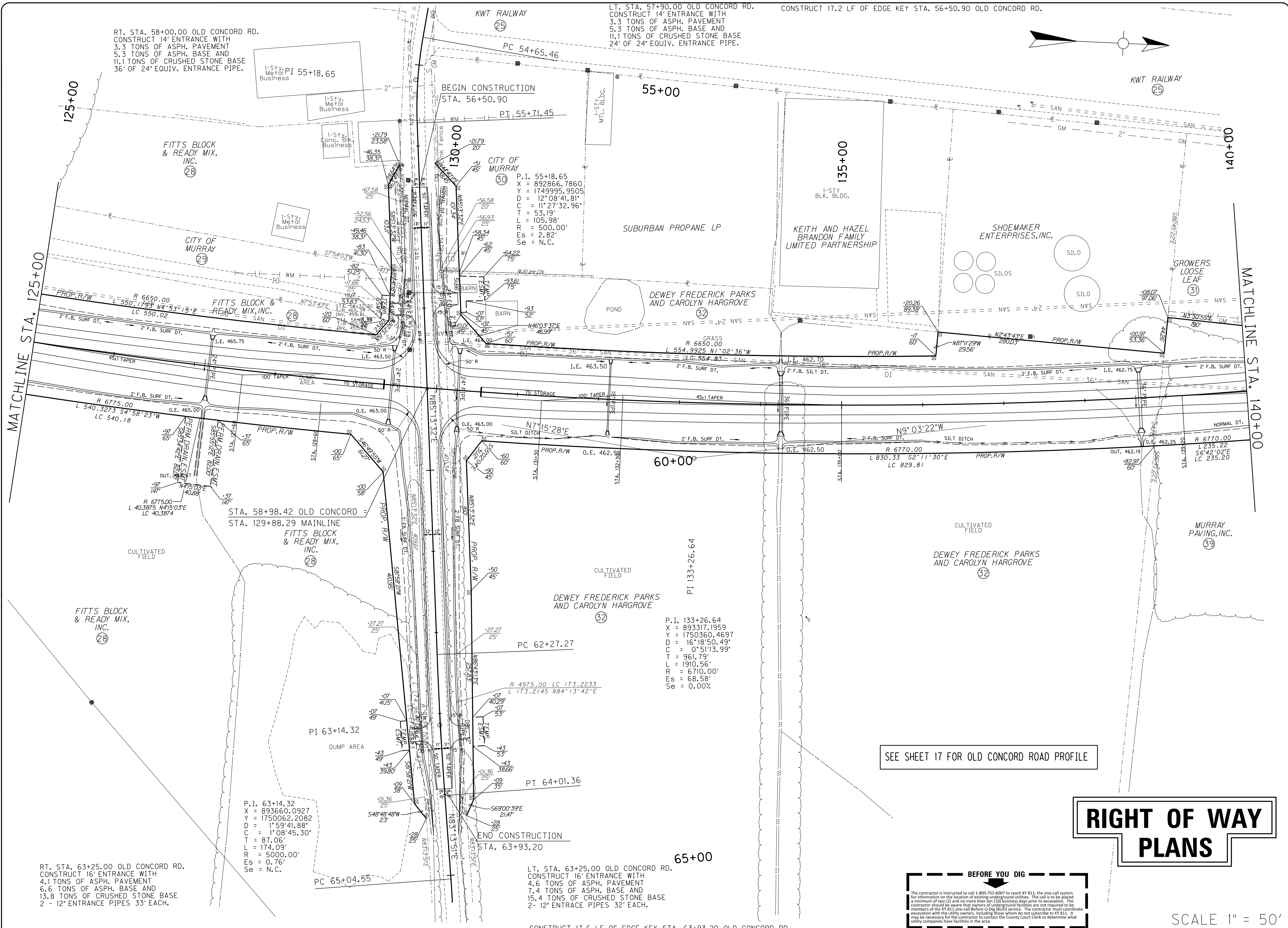
BACON | FARMER | WORKMAN  
ENGINEERING & TESTING, INC.  
1000 S. MAIN ST. SUITE 200  
MURRAY, KY 42071  
PHONE: 502.885.1234  
FAX: 502.885.1235  
WWW.BFWENGINEERS.COM



PROFILE - MAINLINE & SYCAMORE IND. RD.  
MURRAY BUSINESS LOOP  
CITY OF MURRAY  
104 NORTH 5TH STREET  
MURRAY, KY 42071

SHEET  
**15**

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# RIGHT OF WAY PLANS

SEE SHEET 17 FOR OLD CONCORD 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-dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those who 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.:	DATE:
DRAWING BY:	REVISION DATES:
REVISION NOTES:	

**BACON | FARMER | WORKMAN**  
ENGINEERING & TESTING, INC.



400 EAST MAIN STREET  
MURRAY, KY 40375  
PHONE: 270.443.1000  
FAX: 270.443.1001  
WWW.BFWENGINEERS.COM

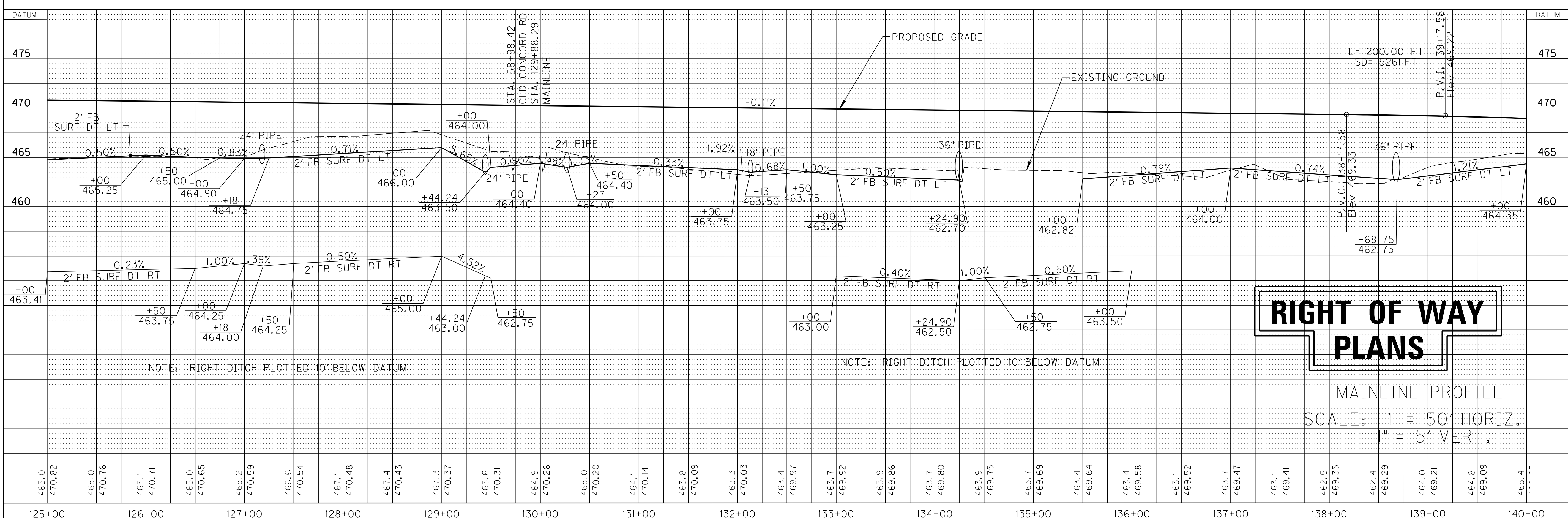
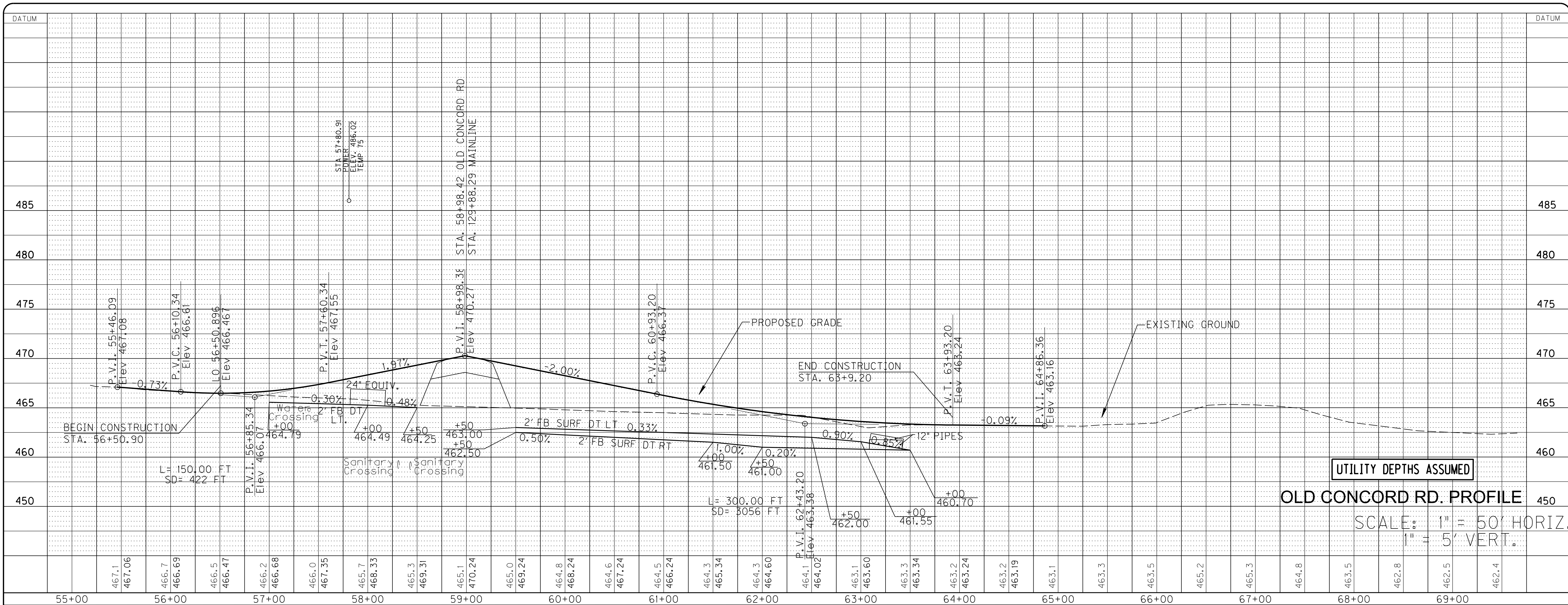
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PLAN - STA. 125+00 TO STA. 140+00

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

SHEET  
**16**

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PROJECT NO.:  
DATE:

DRAWING BY:  
REVISION DATES:  
REVISION NOTES:

**BACON FARMER WORKMAN**  
ENGINEERING & TESTING, INC.  
100 SOUTH 17TH STREET  
MURRAY, KY 42071  
PHONE: 502.333.1000  
FAX: 502.333.1001  
WWW.BFWEINR.COM

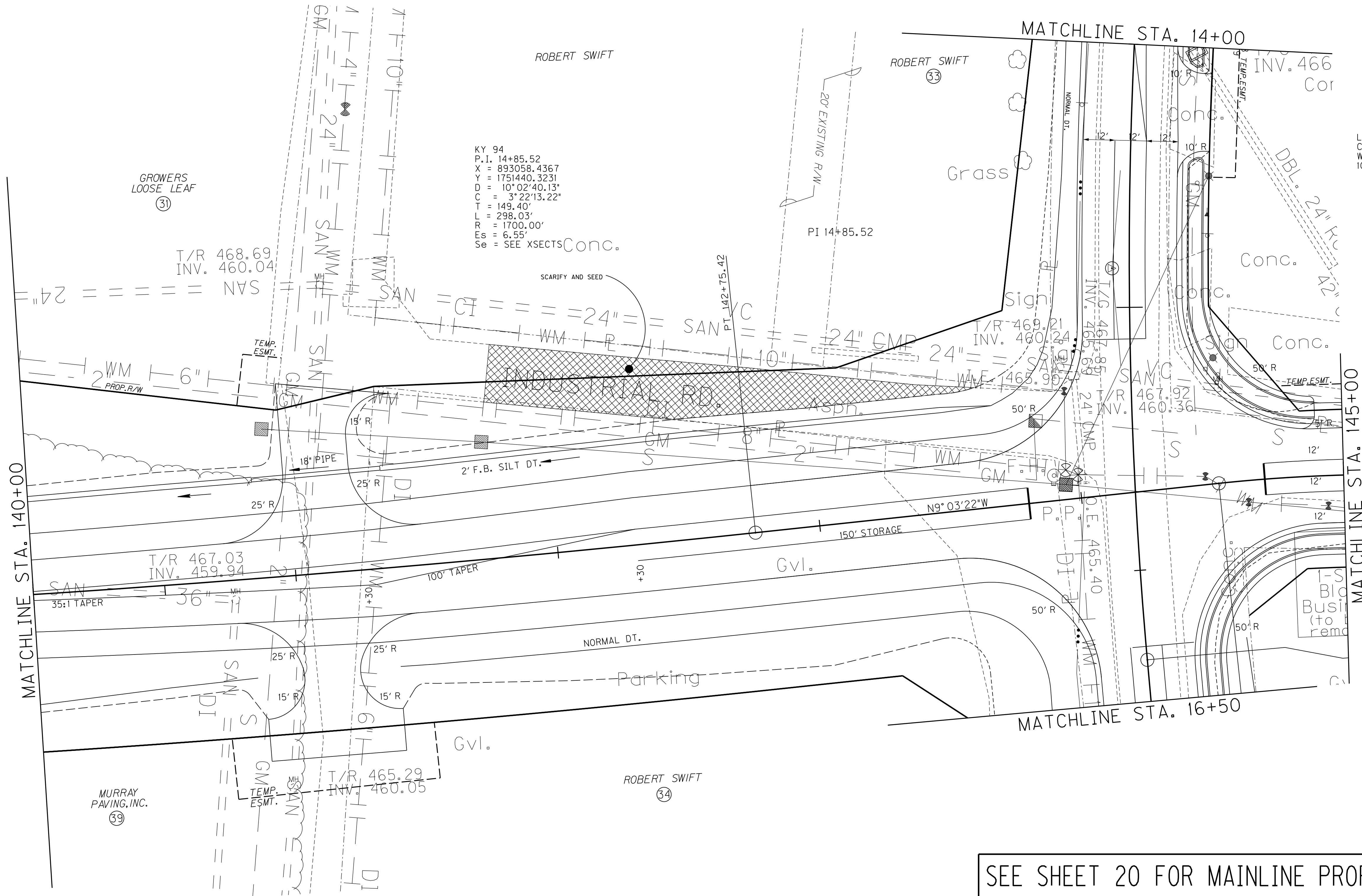


**PROFILE - MAINLINE & OLD CONCORD ROAD**  
**MURRAY BUSINESS LOOP**  
**CITY OF MURRAY**  
**104 NORTH 5TH STREET**  
**MURRAY, KY 42071**

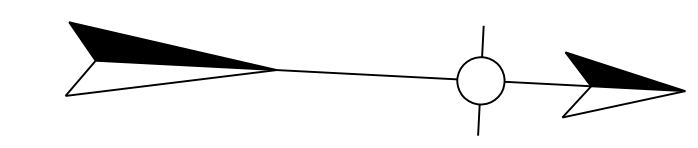
SHEET  
**17**

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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



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



SEE SHEET 20 FOR MAINLINE 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 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.

SCALE 1" = 20'

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

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

**BACON FARMER | WORKMAN**  
ENGINEERING & TESTING, INC.

**BFW**

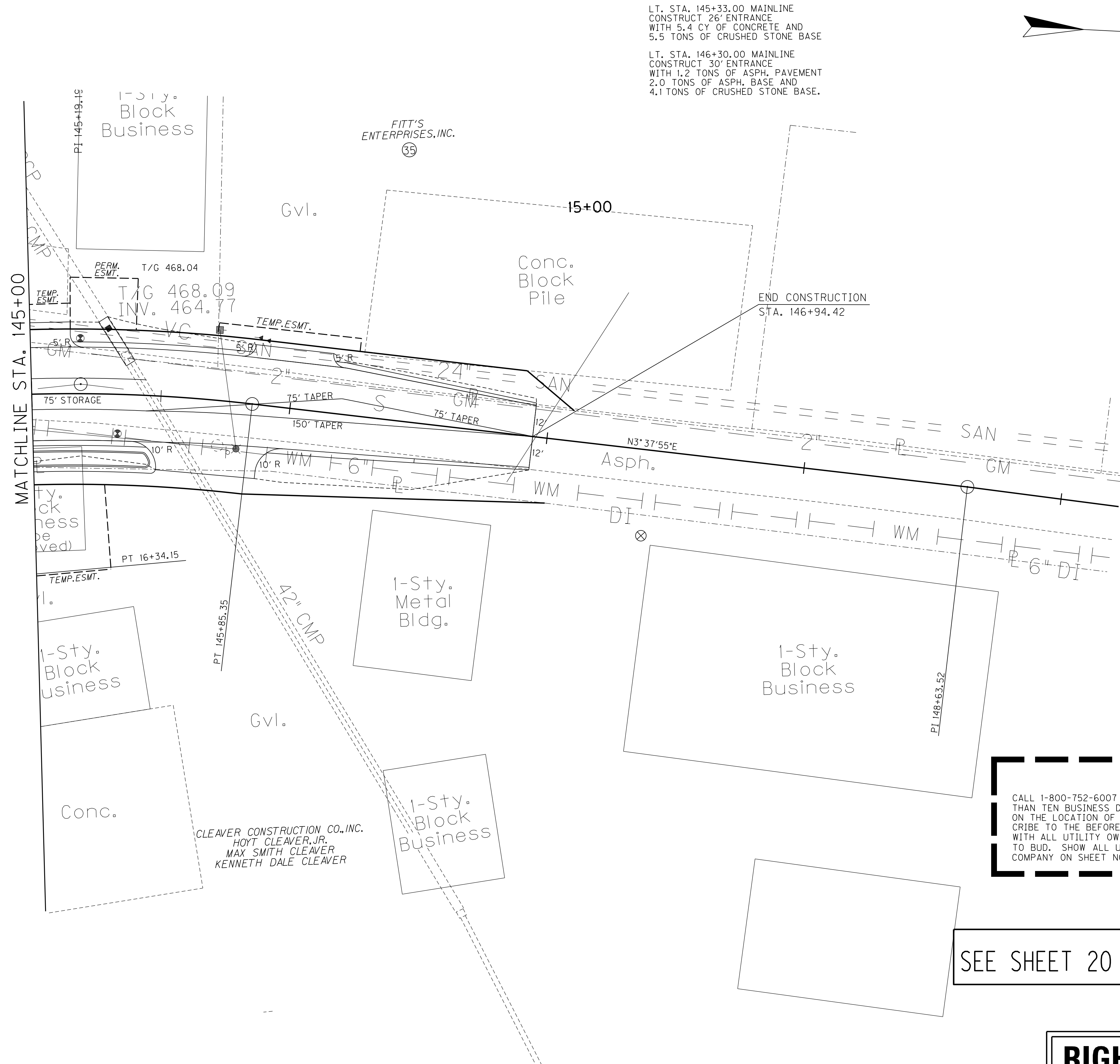
1000 W. MAIN ST. SUITE 100  
MURRAY, KY 40339  
PHONE: 502-241-1000  
FAX: 502-241-1001  
WWW.BFWENGINEERS.COM

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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**

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**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.

SEE SHEET 20 FOR MAINLINE PROFILE

**RIGHT OF WAY PLANS**

SCALE 1" = 20'

PLAN - STA. 144+50 - E.O.P.  
 MURRAY BUSINESS LOOP  
 CITY OF MURRAY  
 104 NORTH 5TH STREET  
 MURRAY, KY 42071

SHEET  
**19**

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

**BACON FARMER | WORKMAN**  
 ENGINEERING & TESTING, INC.

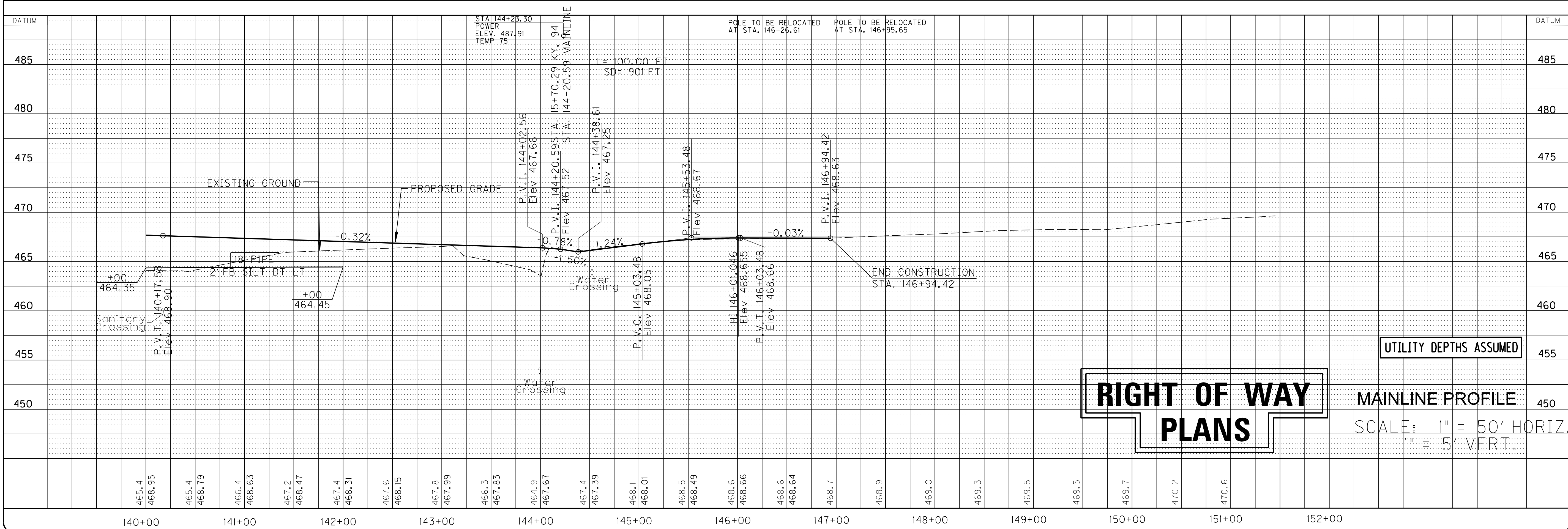
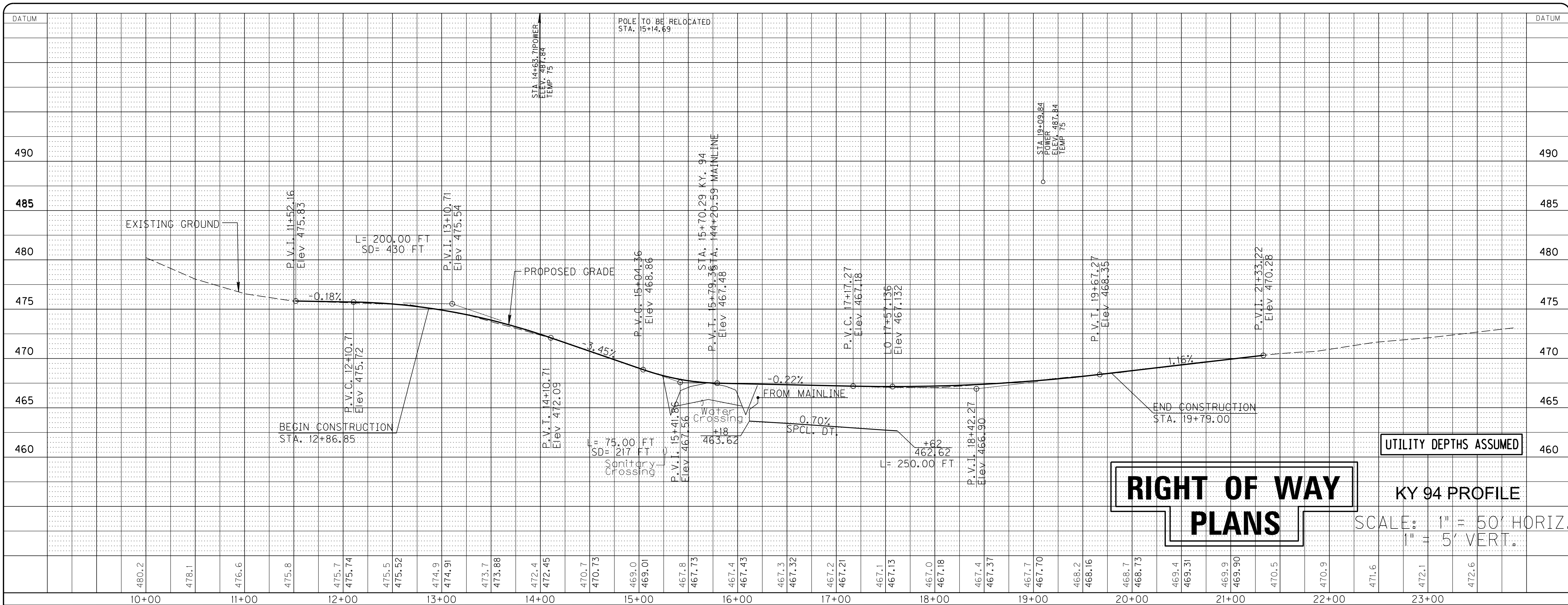
**BFW**

MEMBER: NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL LAND SURVEYORS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL GEOTECHNICAL ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL CIVIL ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL ELECTRICAL ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL MECHANICAL ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL CHEMICAL ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL METALLURGICAL ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL INDUSTRIAL ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL AERONAUTICAL ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL AGRICULTURAL ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL MARINE ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL NUCLEAR ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL PETROLEUM ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL THERMAL ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL TRANSPORTATION ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL WATER RESOURCES ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL WIND ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL POLYMER ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL RADIATION ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL SOUND ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL VIBRATION ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL WAVE ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL OPTICAL ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL LASER ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL MICROWAVE ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL RADIATION ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL THERMAL ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL TRANSPORTATION ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL WATER RESOURCES ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL WIND ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL POLYMER ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL RADIATION ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL SOUND ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL VIBRATION ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL WAVE ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL OPTICAL ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL LASER ENGINEERS  
 MEMBER: NATIONAL SOCIETY OF PROFESSIONAL MICROWAVE ENGINEERS

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DATE:

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PROJECT NO.: 05683 DATE: \_\_\_\_\_  
 DRAWING BY: \_\_\_\_\_  
 REVISION DATES: \_\_\_\_\_  
 REVISION NOTES: \_\_\_\_\_

BACON FARMER WORKMAN  
 ENGINEERING & TESTING, INC.

**BFW**

REGISTERED PROFESSIONAL ENGINEER  
 MURRAY, KY 40371  
 LICENSE NO. 19883  
 PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER  
 MURRAY, KY 40371  
 LICENSE NO. 19883  
 PROFESSIONAL SEAL

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 WWW.BFWENGINEER.COM

PROFILE - MAINLINE & KY. 94

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

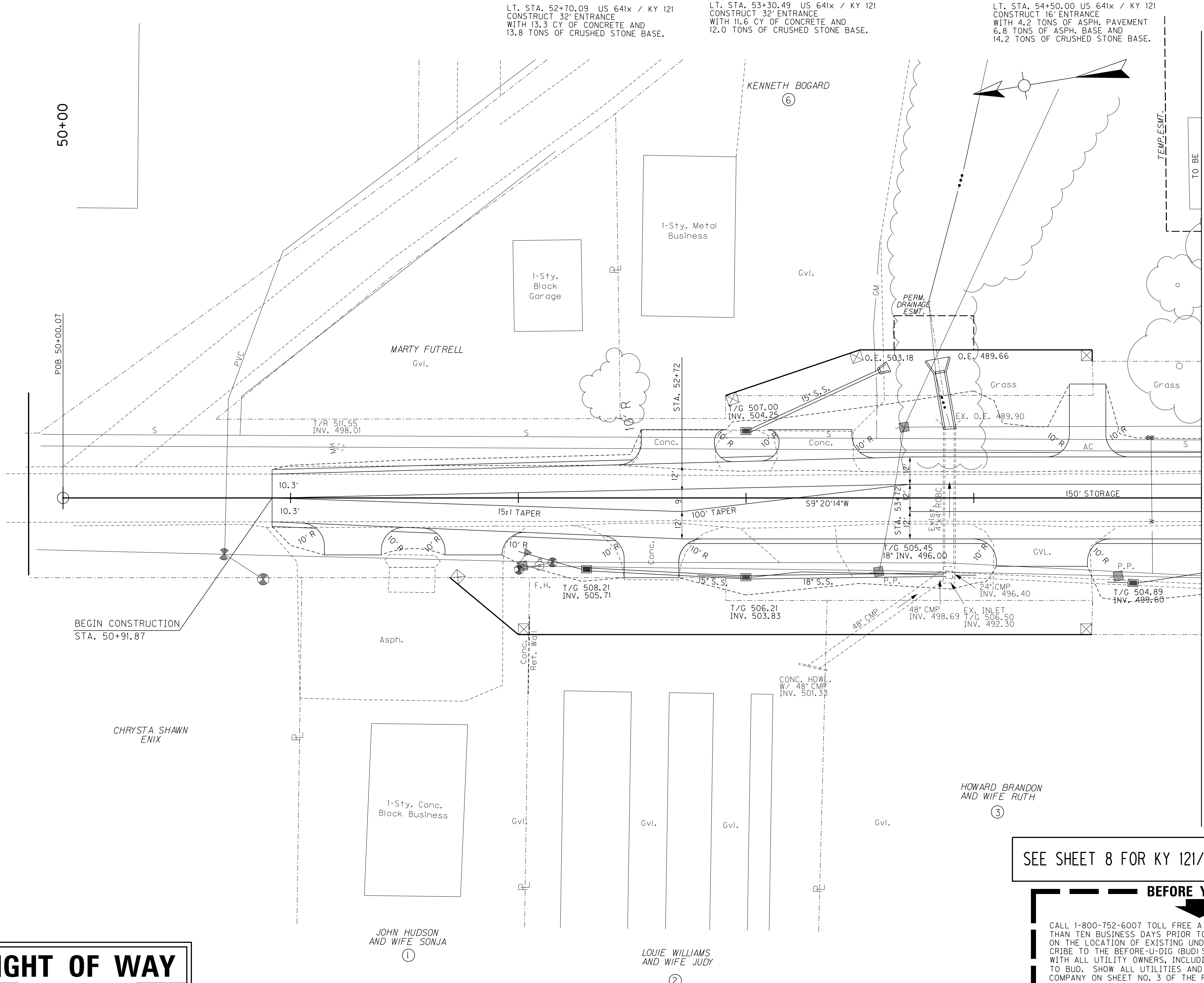
SHEET  
**20**



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50+00

POB 50+00.07



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.

BEGIN CONSTRUCTION  
STA. 50+91.87

MATCHLINE STA. 55+00

# 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 2.81 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.

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.

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.

SCALE 1" = 20'

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

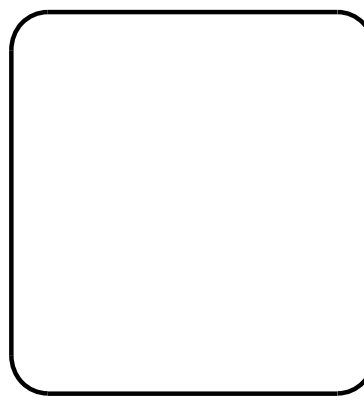
MURRAY BUSINESS LOOP  
CITY OF MURRAY  
104 NORTH 5TH STREET  
MURRAY, KY 42071

SHEET  
**21**

BACON | FARMER | WORKMAN  
ENGINEERING & TESTING, INC.



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



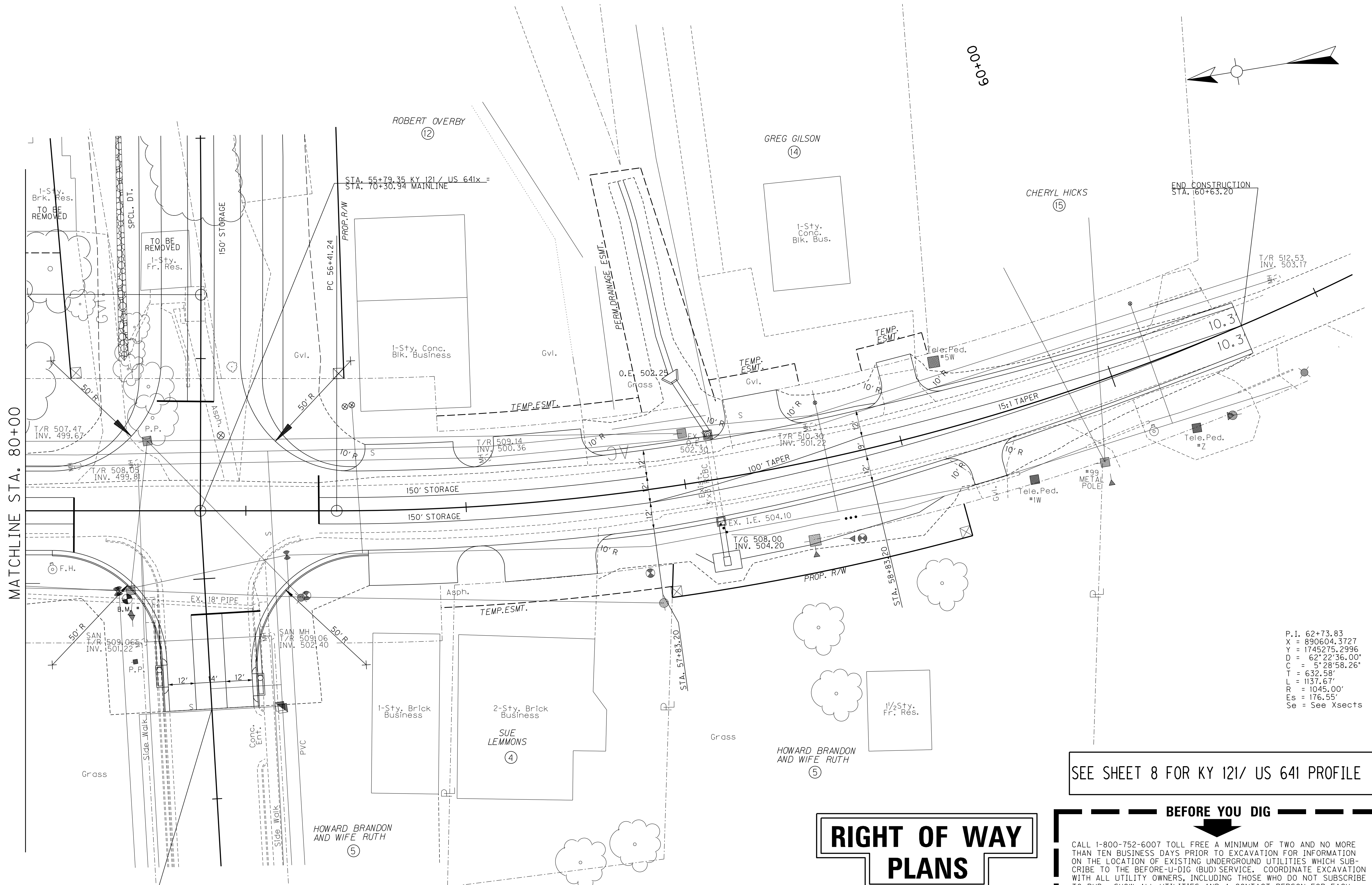
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LT. STA. 56+75.00 - KY. 121  
CONSTRUCT 40' ENTRANCE  
WITH 4.0 TONS OF ASPH. PAVEMENT  
6.4 TONS OF ASPH. BASE AND  
13.4 TONS OF CRUSHED STONE BASE

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



MATCHLINE STA. 80+00

00+00

END CONSTRUCTION  
STA. 160+63.20

BEGIN CONSTRUCTION  
STA. 69+40.90

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'

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 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.

P.I. 62+73.83  
X = 890604.3727  
Y = 1745275.2996  
D = 62°22'36.00"  
C = 57°28'58.26"  
T = 632.58'  
R = 1137.67'  
E = 1045.00'  
S = 176.55'  
Se = See Xsects

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**

BACON | FARMER | WORKMAN  
ENGINEERING & TESTING, INC.



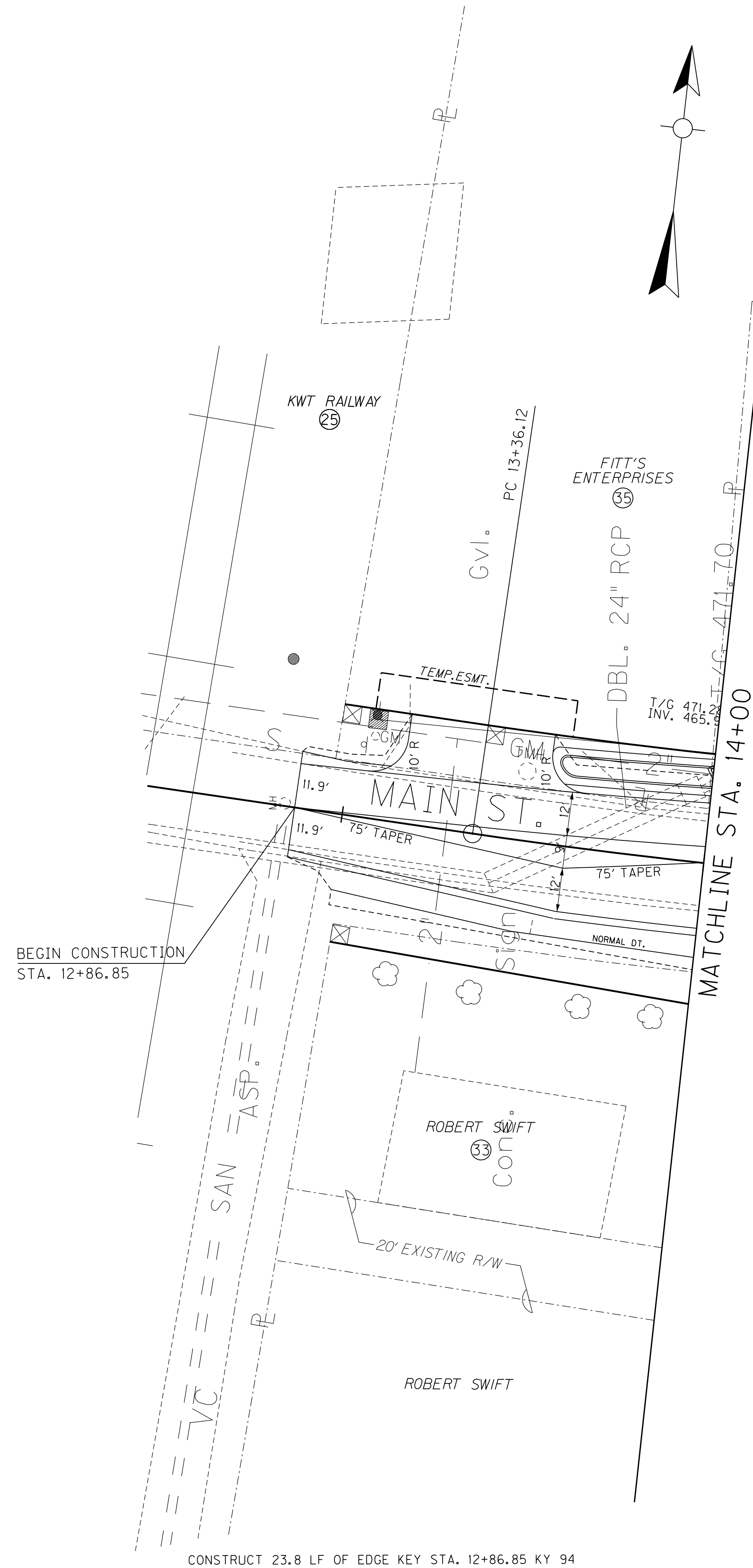
PROJECT NO.:  
DRAWING BY:  
REVISION DATES:  
REVISION NOTES:

DATE:

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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 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**

SCALE 1" = 20'

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**

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

**BFW**

BACON | FARMER | WORKMAN  
 ENGINEERING & TESTING, INC.

1000 W. 10TH STREET  
 MURRAY, KY 42071  
 PHONE: 270.443.1980

1000 W. 10TH STREET  
 MURRAY, KY 42071  
 PHONE: 270.443.1980

WWW.BFWENGINEERS.COM

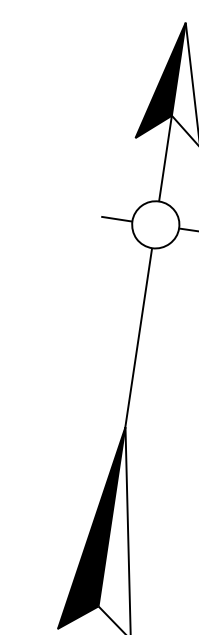
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LT. STA. 16+80.00 KY .94  
CONSTRUCT 40' ENTRANCE WITH  
7.1 TONS OF ASPH. PAVEMENT  
11.3 TONS OF ASPH. BASE AND  
23.6 TONS OF CRUSHED STONE BASE

LT. STA. 17+76 KY .94  
CONSTRUCT 40' ENTRANCE WITH  
5.0 TONS OF ASPH. PAVEMENT  
8.0 TONS OF ASPH. BASE AND  
16.6 TONS OF CRUSHED STONE BASE

CONSTRUCT 22 LF OF EDGE KEY STA. 20+59.25 KY 94

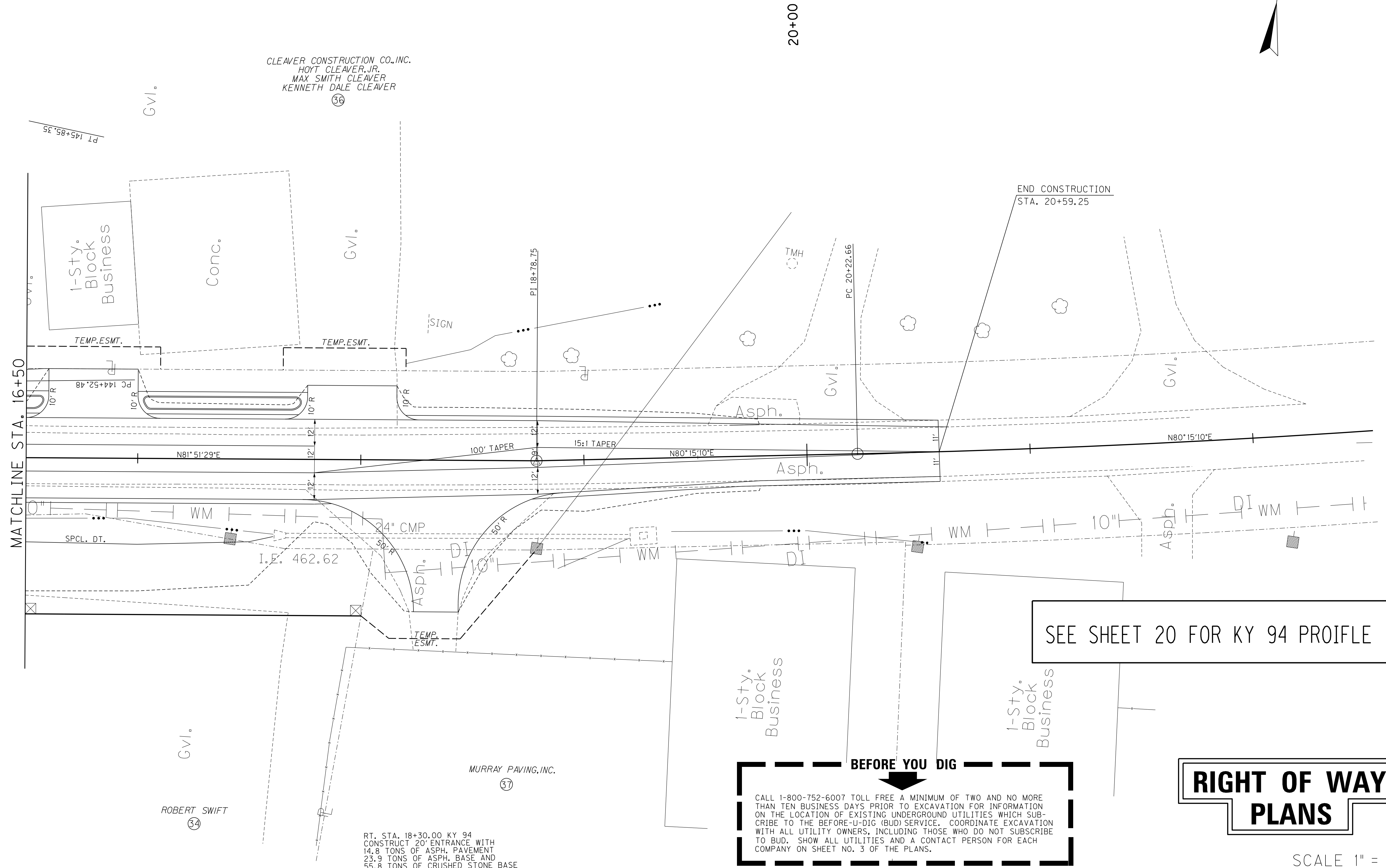


CLEAVER CONSTRUCTION CO., INC.  
HOYT CLEAVER, JR.  
MAX SMITH CLEAVER  
KENNETH DALE CLEAVER  
36

MURRAY PAVING, INC.  
37

ROBERT SWIFT  
34

RT. STA. 18+30.00 KY 94  
CONSTRUCT 20' ENTRANCE WITH  
14.8 TONS OF ASPH. PAVEMENT  
23.9 TONS OF ASPH. BASE AND  
55.8 TONS OF CRUSHED STONE BASE



SEE SHEET 20 FOR KY 94 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**

SCALE 1" = 20'

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

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

**BFW**

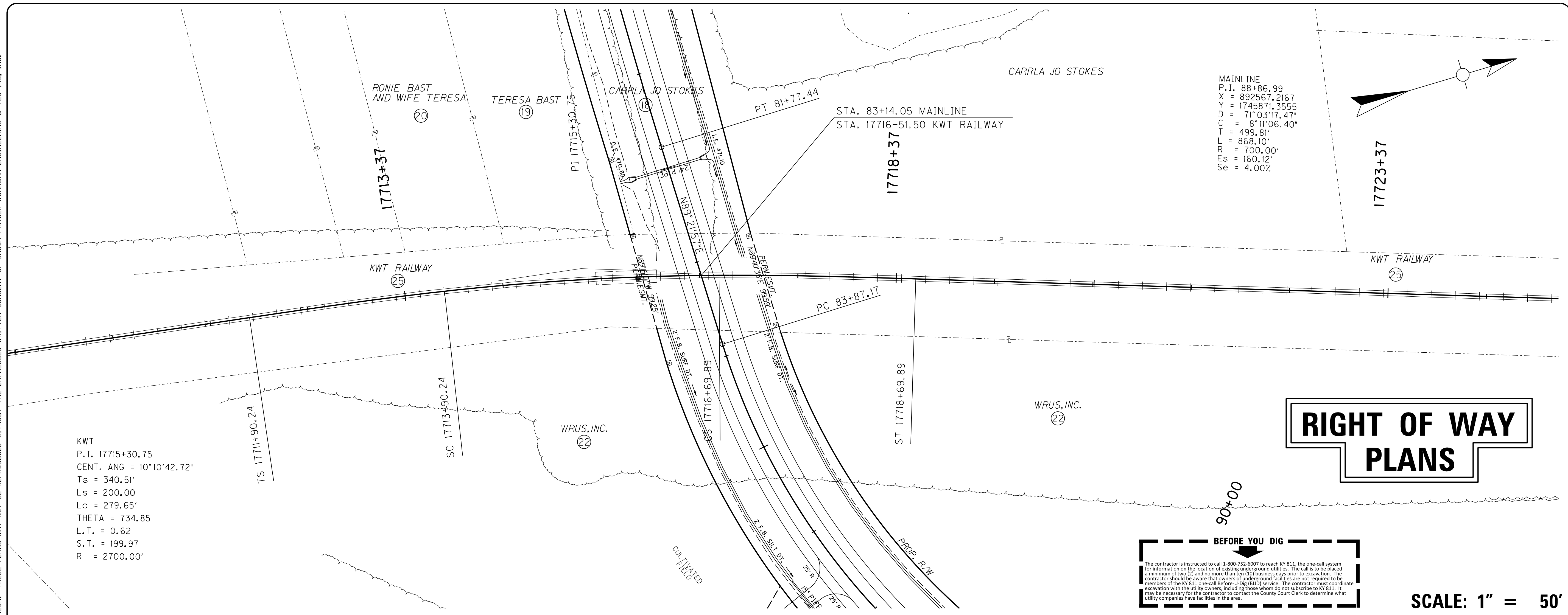
BACON | FARMER | WORKMAN  
ENGINEERING & TESTING, INC.

1000 SOUTH LEXINGTON AVENUE, SUITE 200  
LEXINGTON, KY 40503  
TEL: 606-271-1111 FAX: 606-271-1112  
WWW.BFWENGINEERING.COM

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**

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KWT  
 P.I. 17715+30.75  
 CENT. ANG = 10°10'42.72"  
 Ts = 340.51'  
 Ls = 200.00  
 Lc = 279.65'  
 THETA = 734.85  
 L.T. = 0.62  
 S.T. = 199.97  
 R = 2700.00'

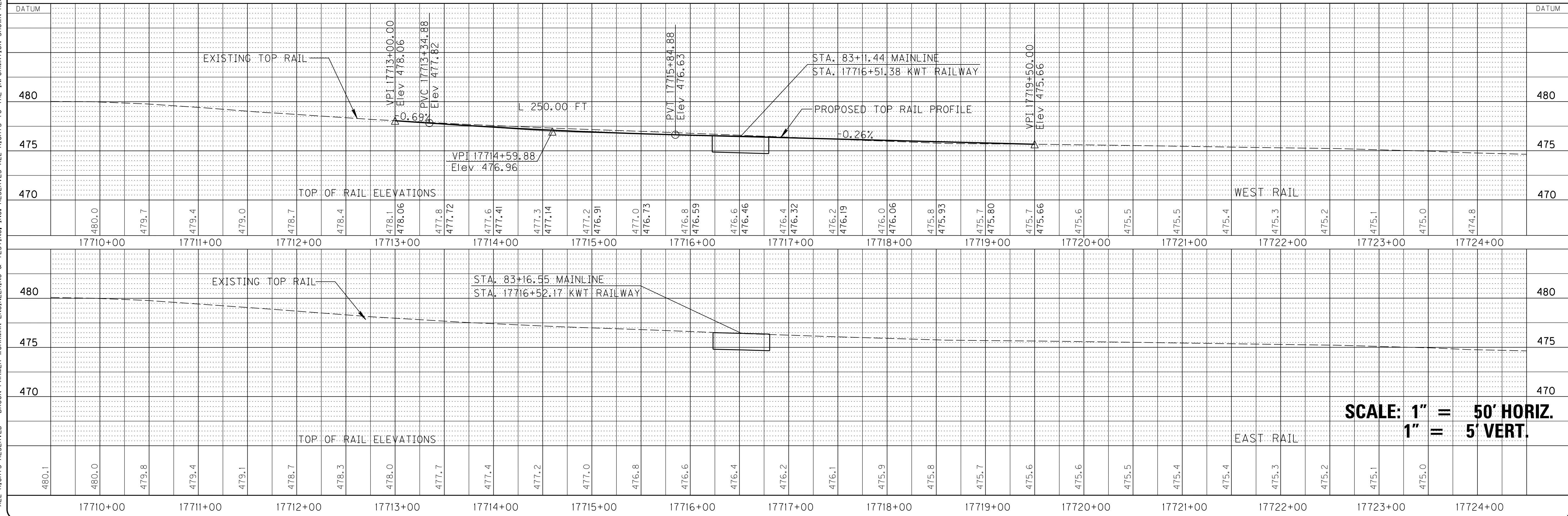
MAINLINE  
 P.I. 88+86.99  
 X = 892567.2167  
 Y = 1745871.3555  
 D = 71°03'17.47"  
 C = 8'11"06.40"  
 T = 499.81'  
 L = 868.10'  
 R = 700.00'  
 ES = 160.12'  
 Se = 4.00%

# RIGHT OF WAY PLANS

**BEFORE YOU DIG**

The contractor is instructed to call 1-800-752-6607 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-You-Dig (BYD) 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.

PROJECT NO. 0693  
 DATE: DECEMBER 7, 2012  
 DRAWING BY:  
 REVISION DATES:  
 REVISION NOTES:

500 SOUTH 4TH STREET  
 PADUCAH, KENTUCKY 42003  
 PHONE - 270.443.1995

1315 DINGLID DRIVE  
 MURRAY, KENTUCKY 42071  
 PHONE - 270.753.7307

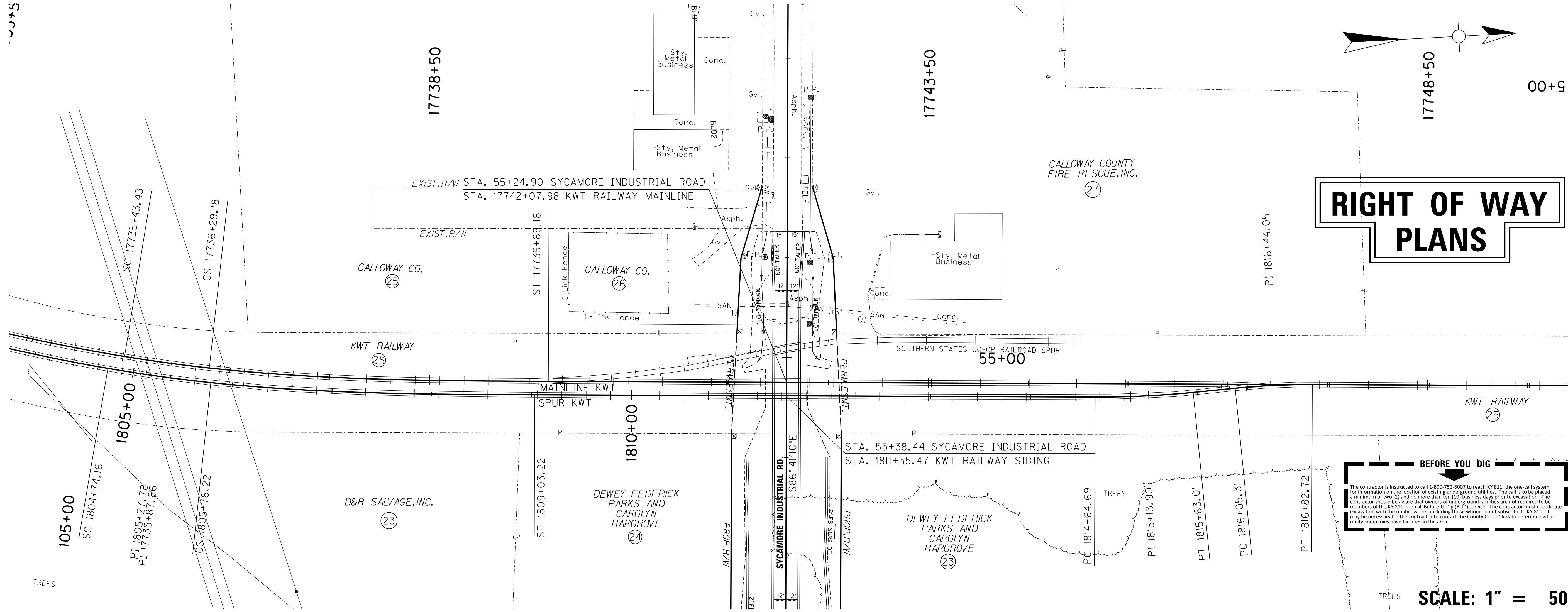
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RAIL CROSSING - MURRAY BUS. LOOP  
 MURRAY BUSINESS LOOP  
 CITY OF MURRAY  
 104 NORTH 4TH STREET  
 MURRAY, KY 42071

SHEET  
**25**

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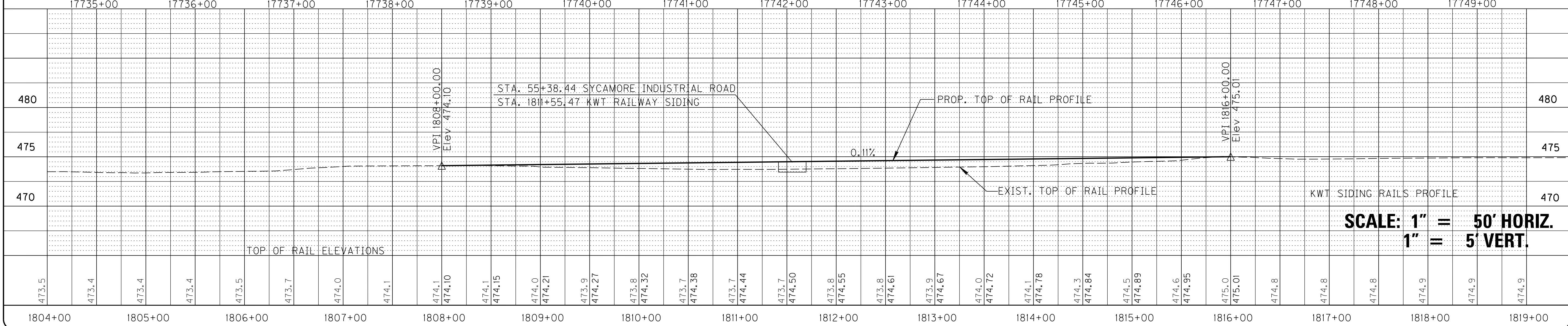
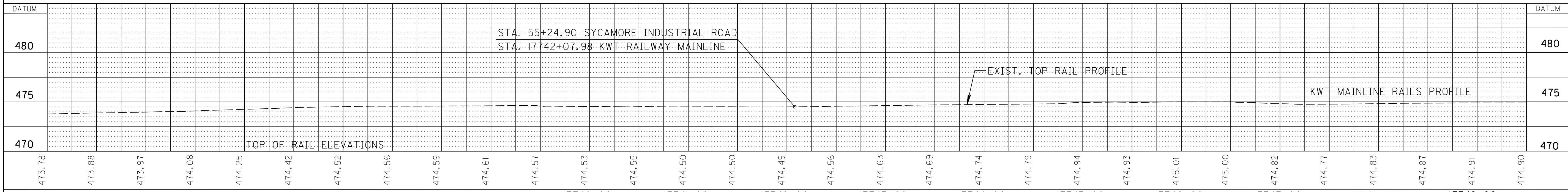


# RIGHT OF WAY PLANS

**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-You-Dig (BYD) 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.**

PROJECT NO. 0693  
DATE: DECEMBER 7, 2012  
DRAWING BY:  
REVISION DATES:  
REVISION NOTES:

600 SOUTH 7TH STREET  
PADUCAH, KENTUCKY 42003  
PHONE - 270.443.1985

1315 DINGLID DRIVE  
MURRAY, KENTUCKY 42071  
PHONE - 270.753.7307

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WWW.BFWENGINEERS.COM



**RAIL CROSSING - SYCAMORE IND. RD.**  
**MURRAY BUSINESS LOOP**  
**CITY OF MURRAY**  
**104 NORTH 5TH STREET**  
**MURRAY, KY 42071**

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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
		ACRES	SQ. FT.	ACRES	SQ. FT.	SO. FT.	SO. FT.	SO. FT.	LEFT		RIGHT		ACRES	SQ. FT.	ACRES	SQ. FT.		YES	NO	C	R	F	S			
									ACRES	SO. FT.	ACRES	SO. FT.														
1	JOHN HUDSON & WIFE SONJA	1.00 (C)	-	-	497	-	-	-	-	-	-	-	-	-	-	-	-	✓						D.B. 838 PG. 192 TAX MAP 8-15-4A		
2	LOUIE WILLIAMS & WIFE JUDY	1.21 (C)	-	-	2821	-	-	-	-	-	-	-	-	-	-	-	-	✓						D.B. 512 PG. 701 TAX MAP 8-15-5		
3	HOWARD BRANDON & WIFE RUTH	1.86	-	-	1748	-	-	-	-	-	-	-	-	-	-	-	-	✓						D.B. 173 PG. 943 TAX MAP 8-15-5A D.B. 106 PG. 253 TAX MAP 8-15-6		
4	JOSEPH MICHAEL LEMMONS & ELVA SUE HENDON	0.31 (C)	-	-	-	-	-	997	-	-	-	-	-	-	-	-	-	✓						D.B. 204 PG. 179 TAX MAP 51-1		
5	HOWARD BRANDON & WIFE RUTH	4.33 (C)	-	-	2056	-	-	62	-	-	-	-	-	-	-	-	-	✓						D.B. 125 PG. 52 TAX MAP 51-105, 51-1A D.B. 108 PG. 523 TAX MAP 51-105, 51-1A D.B. 172 PG. 600 TAX MAP 51-105, 51-1A		
6	KENNETH RALPH BOGARD	0.66 (C)	-	-	1294	261	-	-	-	-	-	-	-	-	-	-	-	✓						D.B. 180 PG. 1953 TAX MAP 51-56F		
7	OLLIE HUTCHENS	0.58(C)	-	0.12	-	264	2587	-	-	-	-	-	-	-	-	-	✓			I		I		D.B. 60 PG. 213 TAX MAP 51-70		
8	KENNY MORGAN	0.32 (C)	-	-	2084	-	-	-	-	-	-	-	-	-	-	-	-	✓						D.B. 122 PG. 213 TAX MAP 51-108		
9	GERALD CARTER	0.16 (C)	-	0.16	-	-	-	-	-	-	-	-	-	-	-	-	-	✓						D.B. 425 PG. 115 TAX MAP 51-69		
10	MARIETTA C. NORWOOD	0.24 (C)	-	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	✓						D.B. 422 PG. 603 TAX MAP 51-62		
11	CITY OF MURRAY, KY	0.16 (C)	-	0.16	-	-	-	-	-	-	-	-	-	-	-	-	-	✓						D.B. 422 PG. 601 TAX MAP 51-73A		
12	ROBERT OVERBY	1.52 (C)	-	0.58	-	2245	649	-	-	-	-	-	-	-	-	-	-	✓		I				D.B. 198 PG. 417 TAX MAP 51-72		
13	MAX H. CHURCHILL	0.50	-	-	2028	-	-	-	-	-	-	-	-	-	-	-	-	✓						D.B. 149 PG. 327 TAX MAP 51-71		
14	GREG GILSON	1.64 (C)	-	-	1650	896	1710	-	-	-	-	-	-	-	-	-	-	✓					I	D.B. 736 PG. 633 TAX MAP 51-64		
15	-NOT USED-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
16	TRUSTEES OF THE GREATER HOPE MISSIONARY BAPTIST CHURCH	2.51	-	-	3194	-	-	-	-	-	-	-	-	-	-	-	-	✓						D.B. 204 PG. 169 TAX MAP 51-56D		
17	-NOT USED-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
18	CARRLA JO STOKES	1.84 (C)	-	1.84	-	-	-	-	-	-	-	-	-	-	-	-	-	✓			I		I		D.B. 596 PG. 502 TAX MAP 51-57	
19	TERESA BAST	1.91	-	0.24	-	-	446	-	-	-	-	-	-	-	-	-	-	✓						D.B. 261 PG. 322 TAX MAP 51-117		
20	RONNIE BAST & TERESA BAST	1.39	-	-	1451	-	454	-	-	-	-	-	-	-	-	-	-	✓						D.B. 332 PG. 521 TAX MAP 51-118		
21	-NOT USED-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
22	WRUS, INC.	30.77	-	4.06	-	14,783	2585	-	9.70	-	17.01	-	-	-	-	-	-	✓					I	D.B. 248 PG. 242 TAX MAP 51-56A		
23	D&R SALVAGE LLC	31.71	-	3.18	-	325	2120	-	9.32	-	19.21	-	-	-	-	-	-	✓						D.B. 769 PG. 56 TAX MAP 51-56		
24	DEWEY FREDERICK PARKS & CAROLYN HARGROVE	35.00	-	3.54	-	5264	2305	-	6.30	-	25.16	-	-	-	-	-	-	✓						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)	-	-	2528	-	-	-	-	-	-	-	-	-	-	-	-	✓						D.B. 154 PG. 2583 TAX MAP 10-31-34		
27	CALLOWAY COUNTY FIRE RESCUE, INC.	5.93	-	-	2527	-	-	-	-	-	-	-	-	-	-	-	-	✓						D.B. 161 PG. 2366 TAX MAP 10-31-35		
28	FITTS BLOCK & READY MIX, INC.	29.00 (C)	-	3.43	-	5200	840	-	6.52	-	19.05	-	-	-	-	-	-	✓						D.B. 173 PG. 1138 TAX MAP 51-75		
29	CITY OF MURRAY	1.00	-	-	1069	-	299	-	-	-	-	-	-	-	-	-	-	✓						D.B. 157 PG. 2017 TAX MAP 51-75A		
30	CITY OF MURRAY	1.10 (C)	-	-	3027	-	-	-	-	-	-	-	-	-	-	-	-	✓						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	-	-	-	-	-	-	-	-	-	-	✓						D.B. 87 PG. 479 TAX MAP 10-29-1		
32	DEWEY FREDERICK PARKS & CAROLYN HARGROVE	62.15	-	2.74	-	-	1484	-	-	41,087	58.47	-	-	-	-	-	-	✓						D.B. 179 PG. 1537 TAX MAP 51-92		
33	ROBERT SWIFT	1.40	-	-	3479	-	-	-	-	-	-	-	-	-	-	-	-	✓						D.B. 753 PG. 512 TAX MAP 10-28-1, 10-28-2		
34	ROBERT SWIFT	1.60	-	0.79	-	-	726	-	-	-	-	-	-	-	-	-	-	✓						D.B. 753 PG. 512 TAX MAP 51-93		
35	FITT'S ENTERPRISES, INC.	0.46 (C)	-	-	3685	516	855	-	-	-	-	-	-	-	-	-	-	✓						D.B. 222 PG. 124 TAX MAP 9-33-7&7A		
36	CLEAVER CONSTRUCTION CO., INC	15.152	-	-	1639	-	3340	-	-	-	-	-	-	-	-	-	-	✓			I			UST	D.B. 777 PG. 293 TAX MAP 50-21	
37	MURRAY PAVING, INC.	1.84	-	-	-	-	2313	-	-	-	-	-	-	-	-	-	-	✓							D.B. 180 PG. 1045 TAX MAP 51-94	
38	FITT'S BLOCK & READY MIX, INC.	4.02 (C)	-	-	3226	-	820	-	-	-	-	-	-	-	-	-	-	✓							D.B. 505 PG. 279 TAX MAP 9-33-7&7A	
39	MURRAY PAVING, INC.	5.85	-	0.74	-	-	979	-	-	-	-	-	-	-	-	-	-	✓							D.B. 991 PG. 303 TAX MAP 51-92	

(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 - COMMERCIAL  
R - RESIDENTIAL  
F - FARM  
S - STORAGE
- HAZARDOUS WASTE**  
UST - UNDERGROUND STORAGE TANK

## RIGHT OF WAY PLANS

DATE: \_\_\_\_\_

PROJECT NO.: \_\_\_\_\_  
DRAWING BY: \_\_\_\_\_  
REVISION DATES: \_\_\_\_\_  
REVISION NOTES: \_\_\_\_\_

BACON | FARMER | WORKMAN  
ENGINEERING & TESTING, INC.

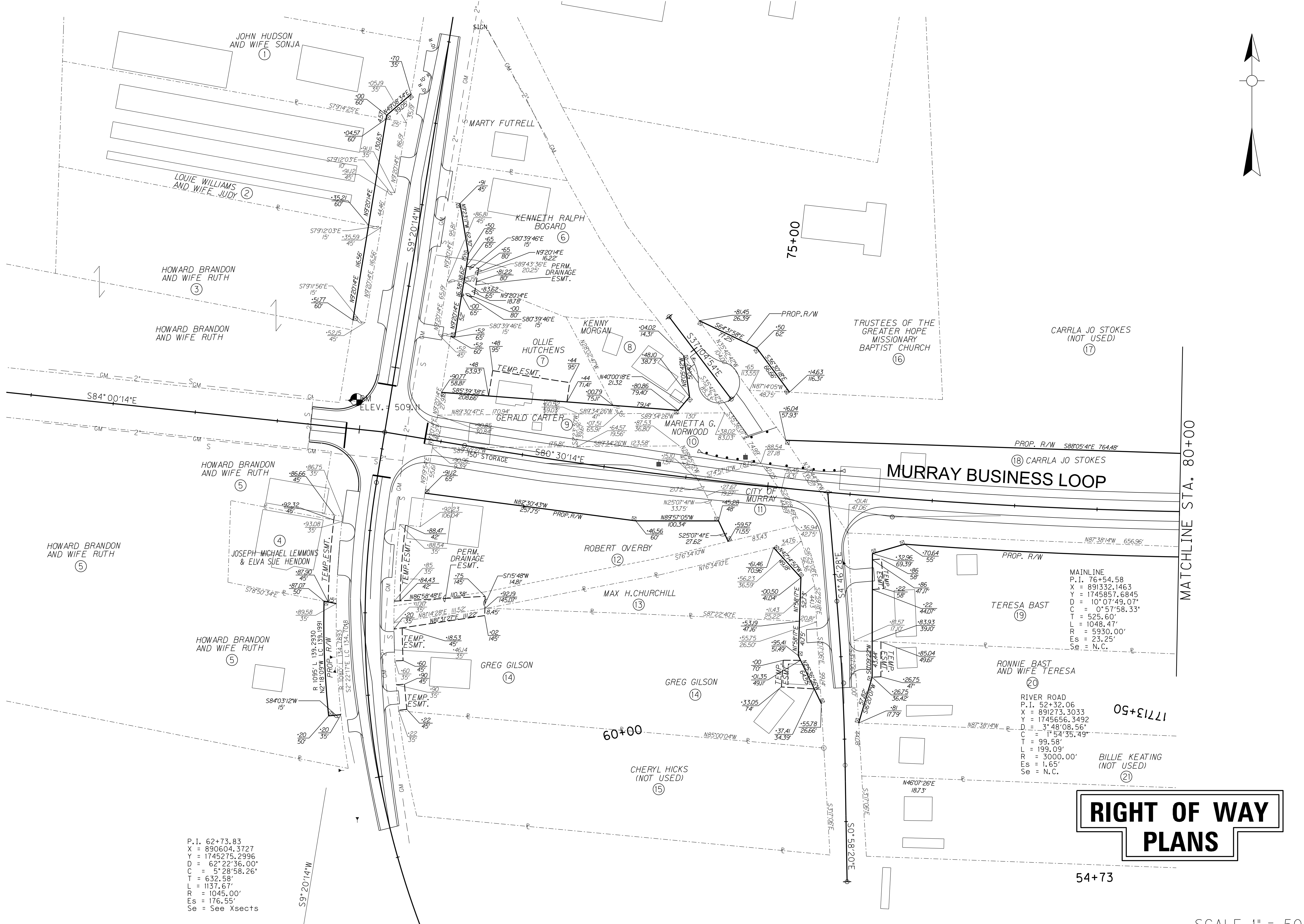
**BFW**

GEOTECH ENGINEERING & TESTING, INC.  
520 SOUTH CENTRAL AVENUE  
MURRAY, KY 40374  
PHONE: 502.935.1337

www.bfwengineers.com  
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RIGHT-OF-WAY SUMMARY  
MURRAY BUSINESS LOOP  
CITY OF MURRAY  
104 NORTH 5TH STREET  
MURRAY, KY 42071

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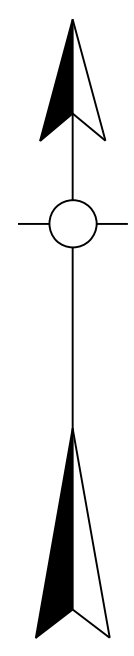


P.I. = 62+73.83  
 X = 890604.3727  
 Y = 1745275.2996  
 D = 62°22'36.00"  
 C = 5'28'58.26"  
 T = 632.58'  
 L = 1137.67'  
 R = 1045.00'  
 Es = 176.55'  
 Se = See Xsects

# RIGHT OF WAY PLANS

54+73

SCALE 1" = 50'



PROJECT NO. : 06093
DRAWING BY :
REVISION DATES :
REVISION NOTES :
DATE :

**BACON | FARMER | WORKMAN**  
 ENGINEERING & TESTING, INC.

1014 BRADSHAW DRIVE  
 MURRAY, KENTUCKY 40340  
 PHONE: 502-338-1100  
 FAX: 502-338-1101

ASSOCIATE ENGINEER  
 PROFESSIONAL ENGINEER  
 PROFESSIONAL SURVEYOR  
 PROFESSIONAL LAND SURVEYOR  
 PROFESSIONAL GEOTECHNICAL ENGINEER

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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

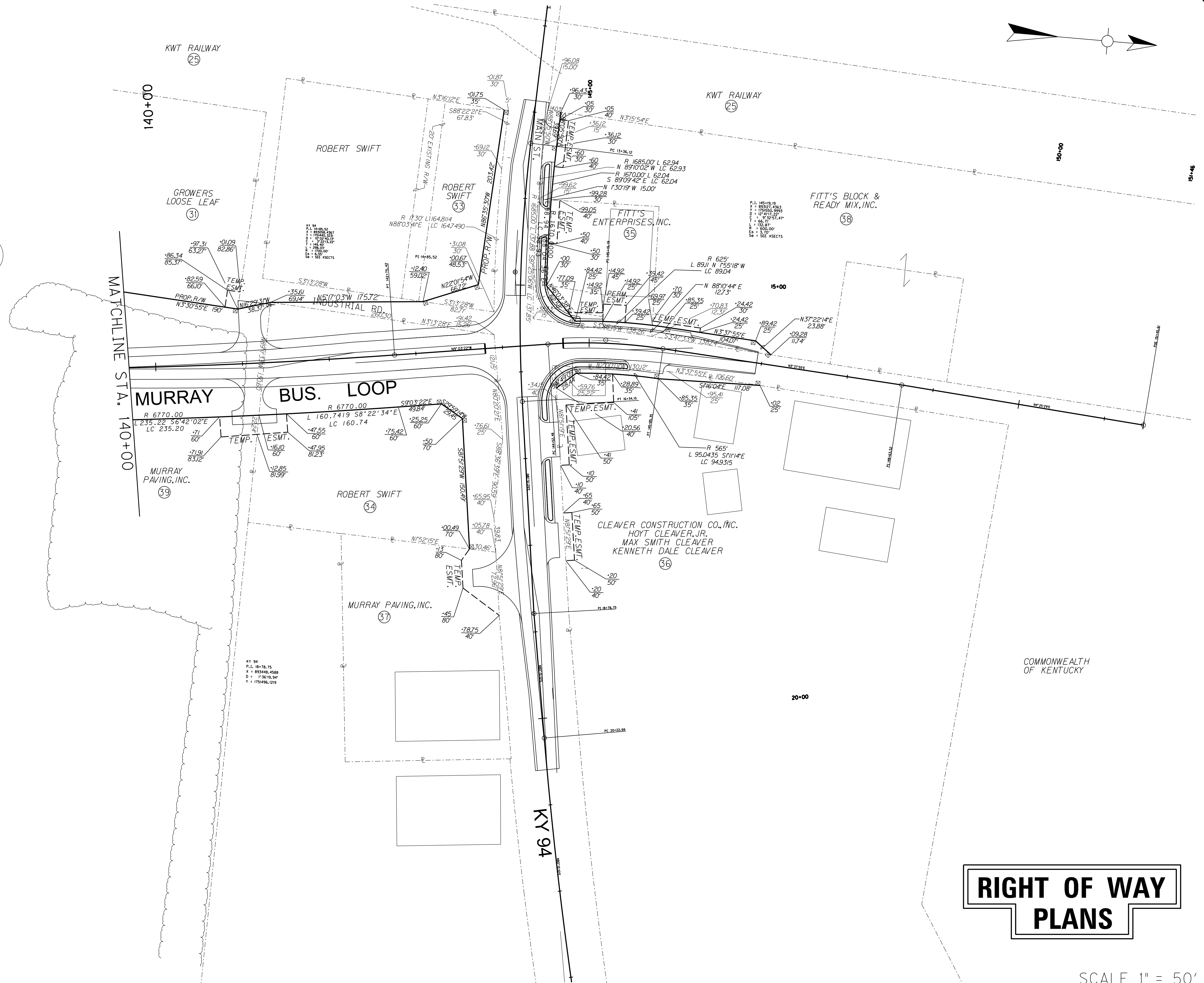
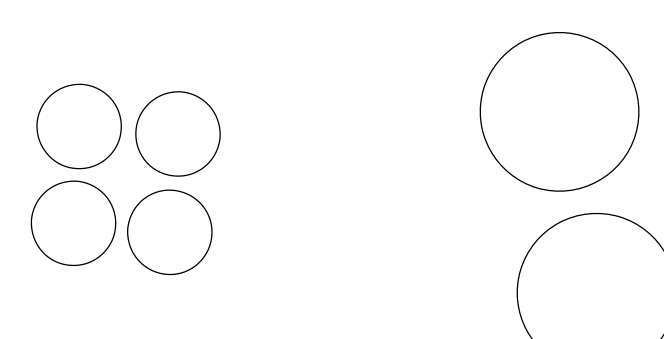
SHEET  
**28**

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.



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# RIGHT OF WAY PLANS

SCALE 1" = 50'

PROJECT NO.:  
DATE:

DRAWING BY:  
REVISION DATES:  
REVISION NOTES:

**BACON | FARMER | WORKMAN**  
ENGINEERING & TESTING, INC.

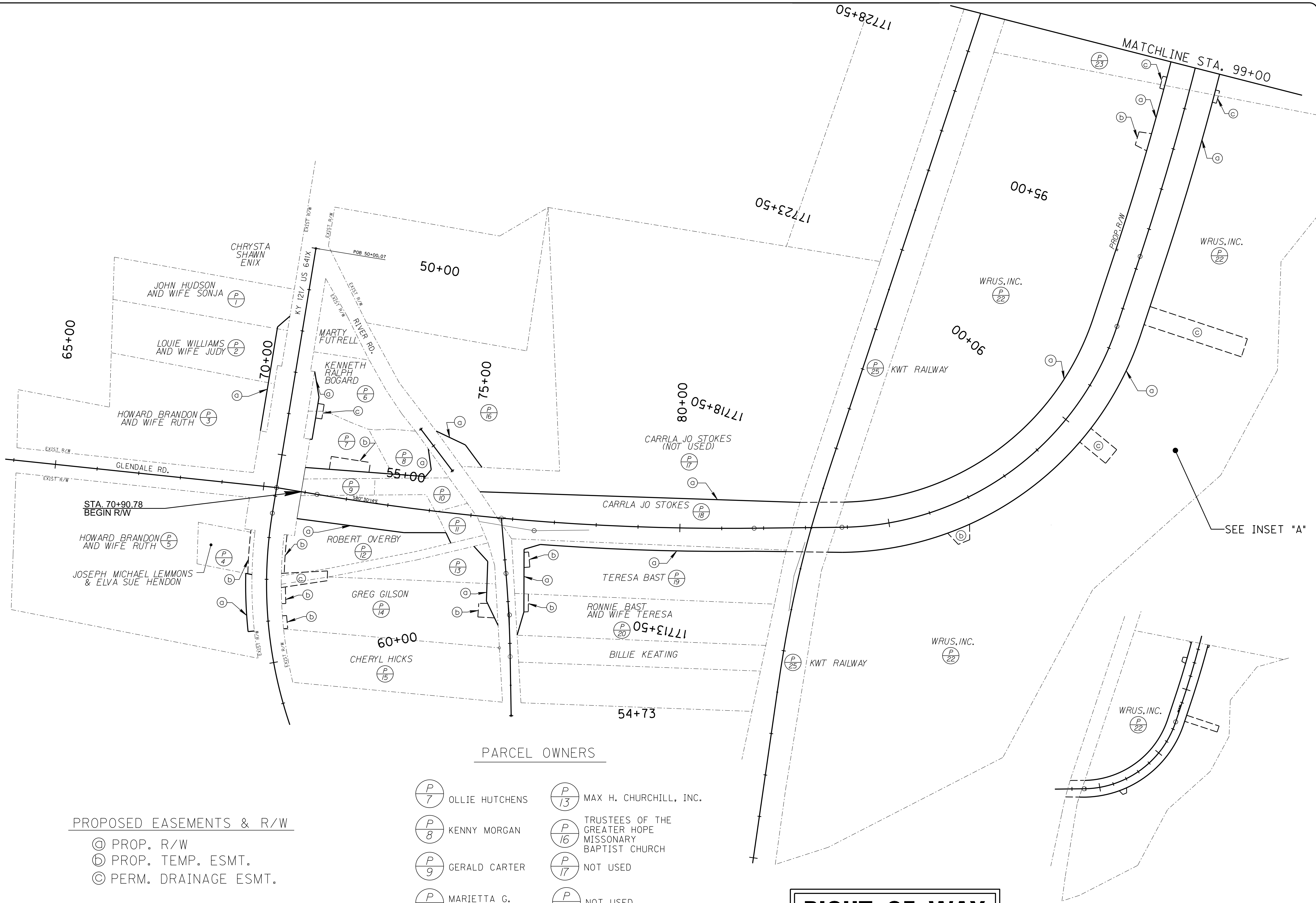
400 SOUTH 17TH STREET  
MURRAY, KY 42071  
PHONE: 270.743.1985  
FAX: 270.743.2307  
WWW.BACONFARMERWORKMAN.COM

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RIGHT OF WAY PLAN SHEET  
MURRAY BUSINESS LOOP  
CITY OF MURRAY  
MURRAY, KY 42071

SHEET  
**29**

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PROPOSED EASEMENTS & R/W

- Ⓐ PROP. R/W
- Ⓑ PROP. TEMP. ESMT.
- Ⓒ PERM. DRAINAGE ESMT.

PARCEL OWNERS

- |                            |   |
|----------------------------|---|
| Ⓐ P 7 OLLIE HUTCHENS       | Ⓐ P 13 MAX H. CHURCHILL, INC.                                 |
| Ⓐ P 8 KENNY MORGAN         | Ⓐ P 16 TRUSTEES OF THE GREATER HOPE MISSIONARY BAPTIST CHURCH |
| Ⓐ P 9 GERALD CARTER        | Ⓐ P 17 NOT USED   |
| Ⓐ P 10 MARIETTA G. NORWOOD | Ⓐ P 21 NOT USED   |
| Ⓐ P 11 CITY OF MURRAY      |   |

**RIGHT OF WAY PLANS**

INSET "A"  
SCALE: 300' = 1"

SCALE 1" = 100'

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

BACON FARMER | WORKMAN  
ENGINEERING & TESTING, INC.



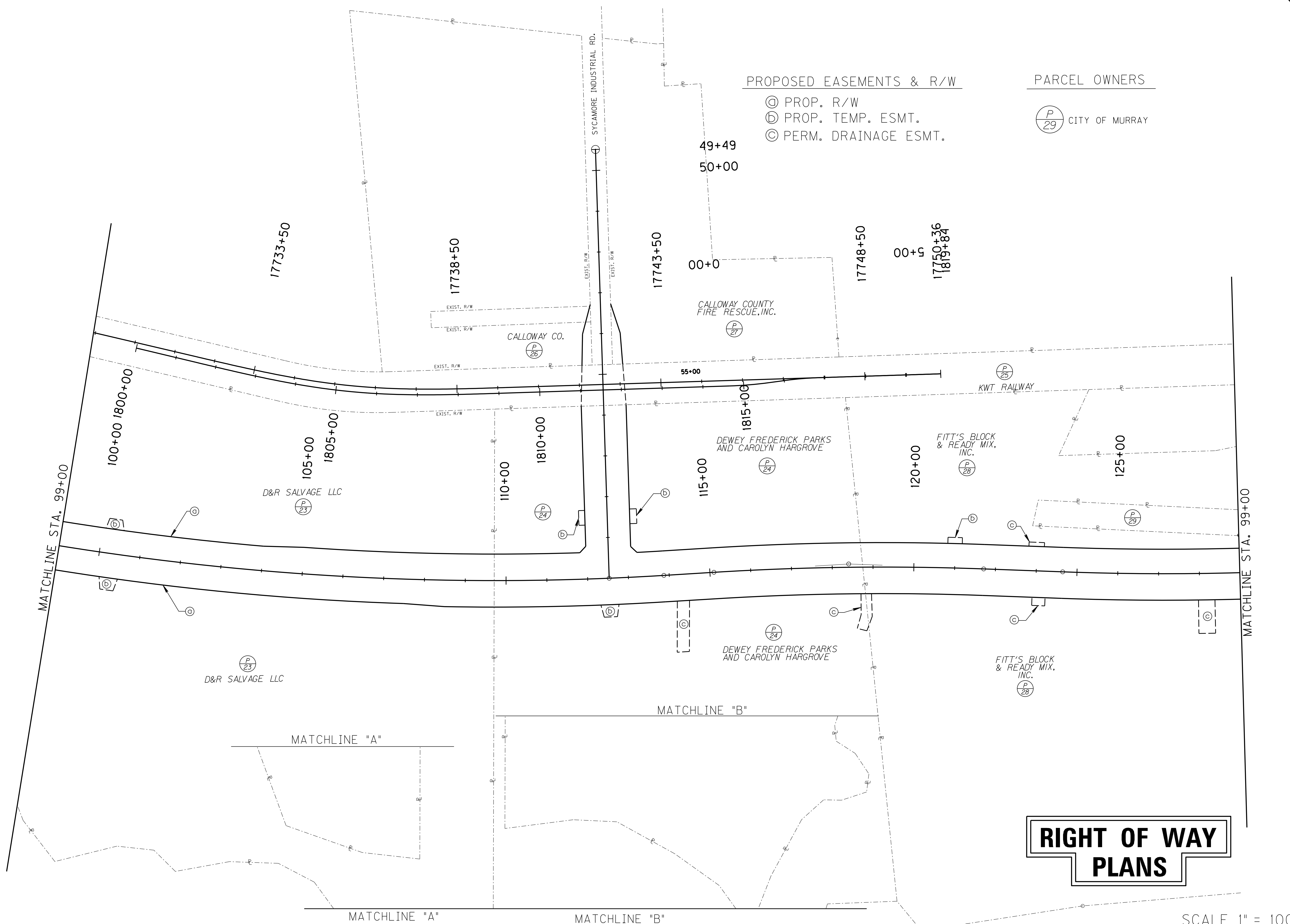
RIGHT OF WAY STRIP MAP 1

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

SHEET  
**30**

100 SOUTH 17TH STREET  
MURRAY, KY 42071  
PHONE: 270-251-1207  
FAX: 270-251-1208  
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PROPOSED EASEMENTS & R/W

- Ⓒ PROP. R/W
- Ⓓ PROP. TEMP. ESMT.
- Ⓒ PERM. DRAINAGE ESMT.

PARCEL OWNERS

(P/29) CITY OF MURRAY

**RIGHT OF WAY  
PLANS**

SCALE 1" = 100'

PROJECT NO. : \_\_\_\_\_ DATE: \_\_\_\_\_

DRAWING BY: \_\_\_\_\_

REVISION DATES: \_\_\_\_\_

REVISION NOTES: \_\_\_\_\_

**BACON | FARMER | WORKMAN**  
ENGINEERING & TESTING, INC.

**BFW**

100 SOUTH FULTON STREET  
MURRAY, KY 42071  
PHONE: 270.753.3307

100 SOUTH FULTON STREET  
MURRAY, KY 42071  
PHONE: 270.753.3307

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RIGHT OF WAY STRIPMAP 2

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

SHEET  
**31**

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PROPOSED EASEMENTS & R/W

- Ⓐ PROP. R/W
- Ⓑ PROP. TEMP. ESMT.
- Ⓒ PERM. DRAINAGE ESMT.

PARCEL OWNERS

- Ⓐ CITY OF MURRAY
- Ⓒ FITT'S ENTERPRISES, INC.

**RIGHT OF WAY  
PLANS**

INSET "A"  
SCALE: 300' = 1"

SCALE 1" = 100'

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

BACON | FARMER | WORKMAN  
ENGINEERING & TESTING, INC.  
1002 SOUTH MURRAY STREET  
MURRAY, KY 40371  
PHONE: 270.423.3327  
FAX: 270.423.3328  
WWW.BFWENGINEERS.COM

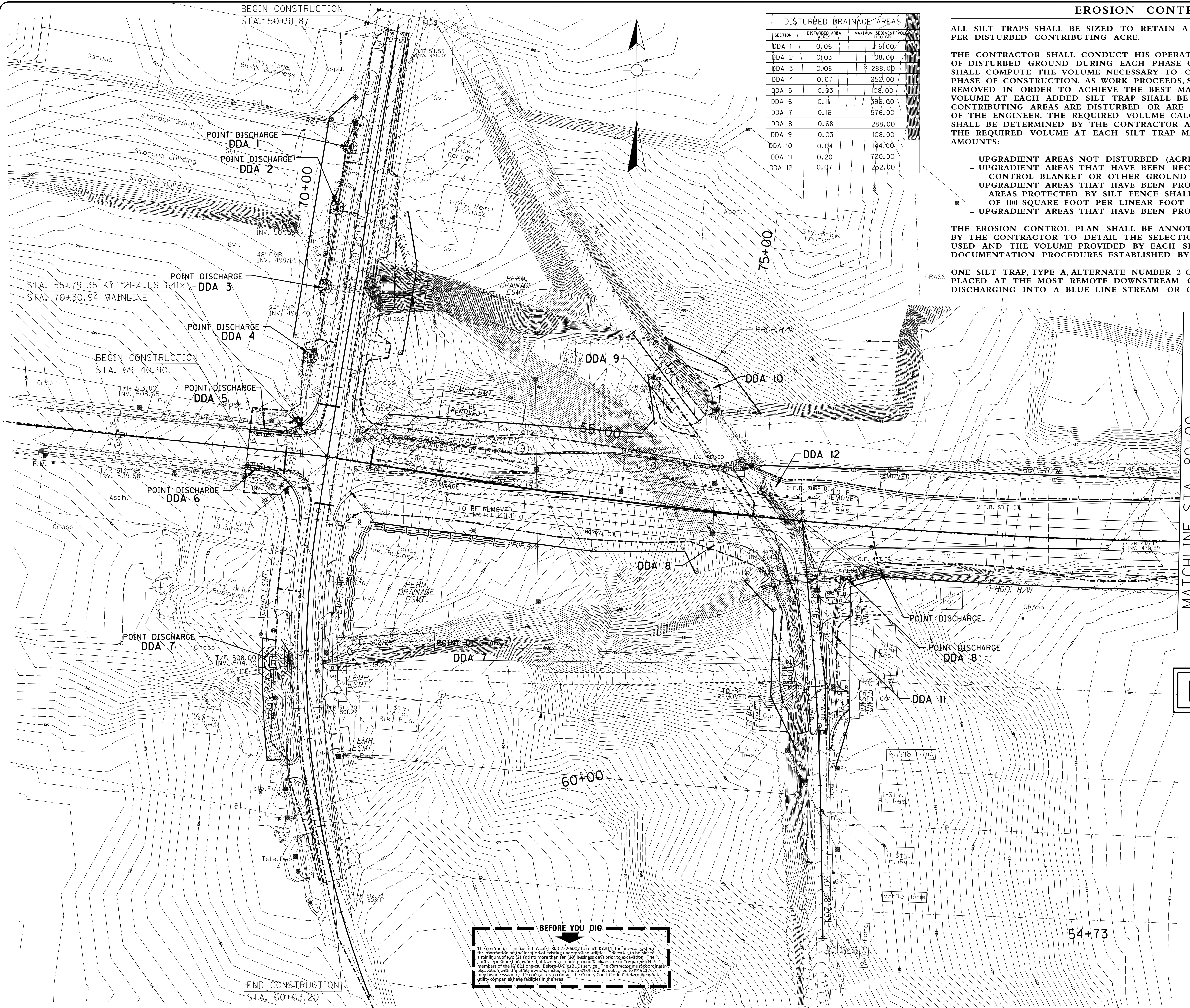


RIGHT OF WAY STRIP MAP 3

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

SHEET  
**32**

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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.
- 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.

**RIGHT OF WAY PLANS**

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

**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 calls to be placed a minimum of two (2) and no more than 10m (33ft) before any excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call before-dig (BID) service. The contractor must coordinate excavation with the utility owners, including those who do not subscribe to KY 811. It may be necessary for the contractor to contact the County Clerk to determine what utility companies have facilities in the area.

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

BACON FARMER WORKMAN ENGINEERING & TESTING, INC.  
 104 NORTH 5TH STREET  
 MURRAY, KY 42071  
 PHONE: 270-441-1986  
 FAX: 270-441-1987  
 WWW.BFWENGINEERS.COM



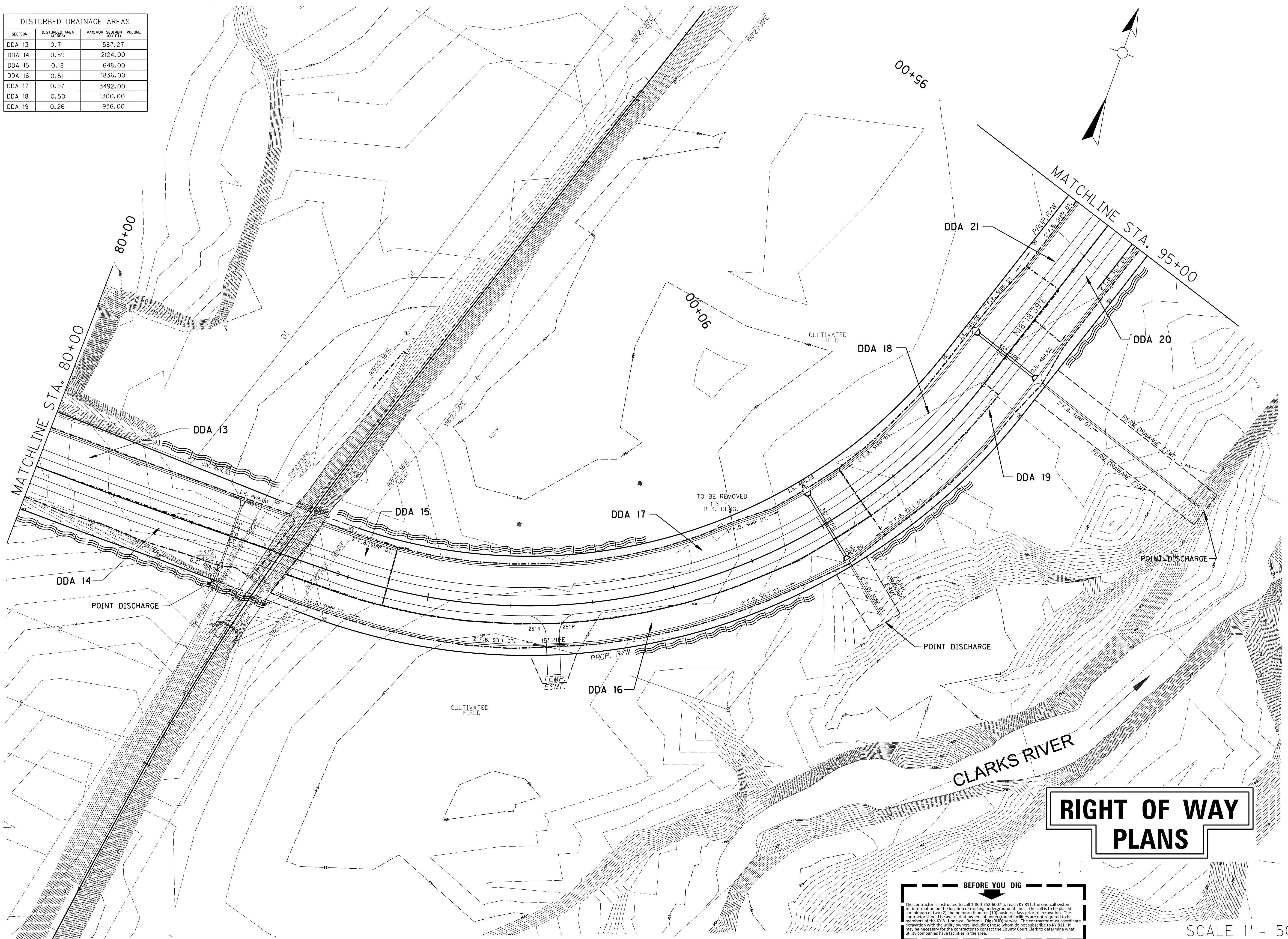
B.O.P. TO STA. 80+00  
 MURRAY BUSINESS LOOP  
 CITY OF MURRAY  
 104 NORTH 5TH STREET  
 MURRAY, KY 42071

SHEET  
**33**

SCALE 1" = 50'

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DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU YD)
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-5-Dig (B5D) 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. : 06093  
 DATE :  
 DRAWING BY :  
 REVISION DATES :  
 REVISION NOTES :

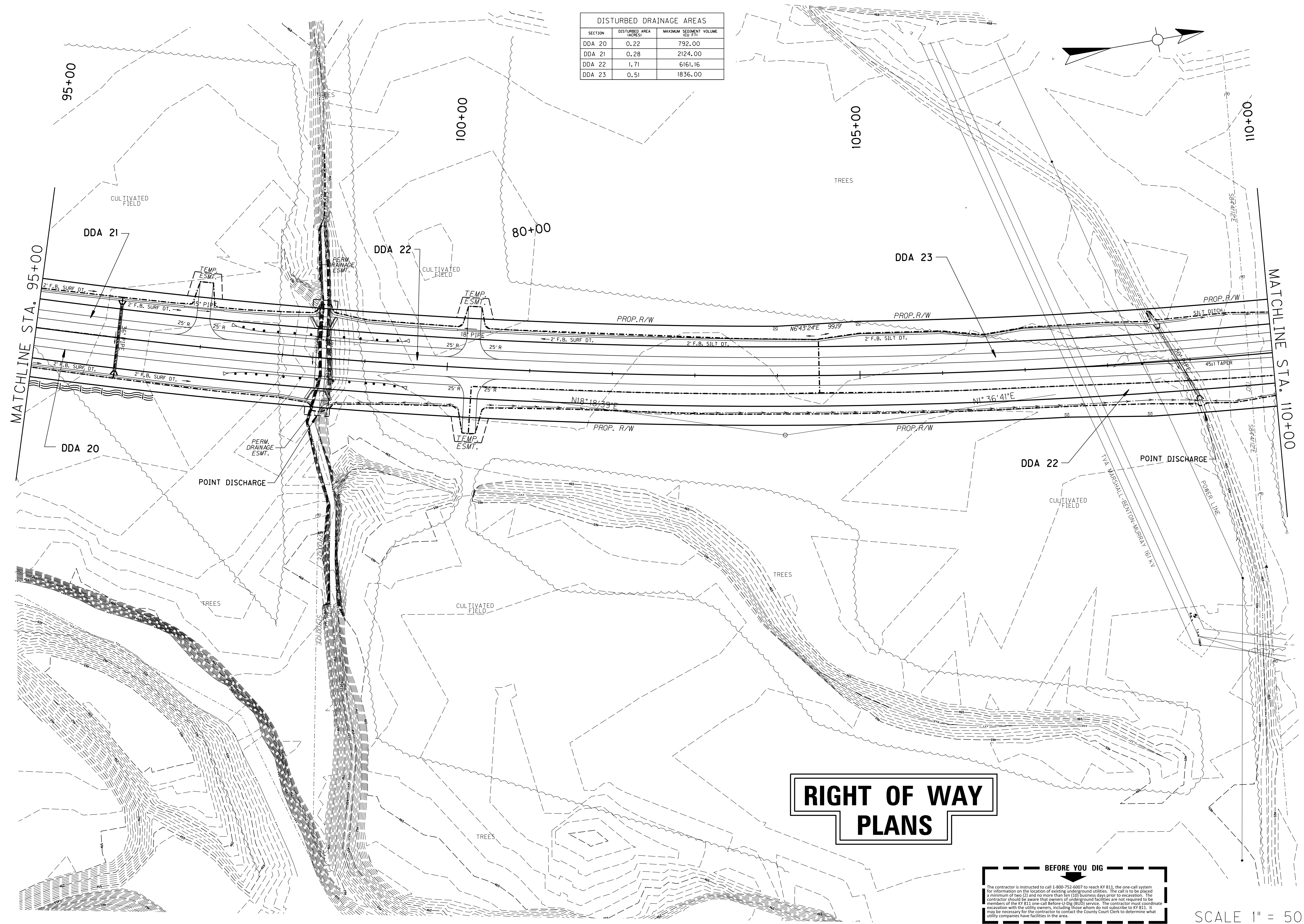
**BACON | FARMER | WORKMAN**  
 ENGINEERING & TESTING, INC.  
  
 104 NORTH 5TH STREET  
 MURRAY, KY 42071  
 PHONE: 270.253.2207  
 FAX: 270.253.2208  
 WWW.BFWENGINEERS.COM  
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PLAN - STA. 80+00 TO STA. 95+00  
 MURRAY BUSINESS LOOP  
 CITY OF MURRAY  
 104 NORTH 5TH STREET  
 MURRAY, KY 42071

SHEET  
**34**

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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



**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-Dig (BD) 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'

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

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

SHEET  
**35**

BACON | FARMER | WORKMAN  
ENGINEERING & TESTING, INC.

PROJECT NO. : 06093  
DRAWING BY :  
REVISION DATES :  
REVISION NOTES :

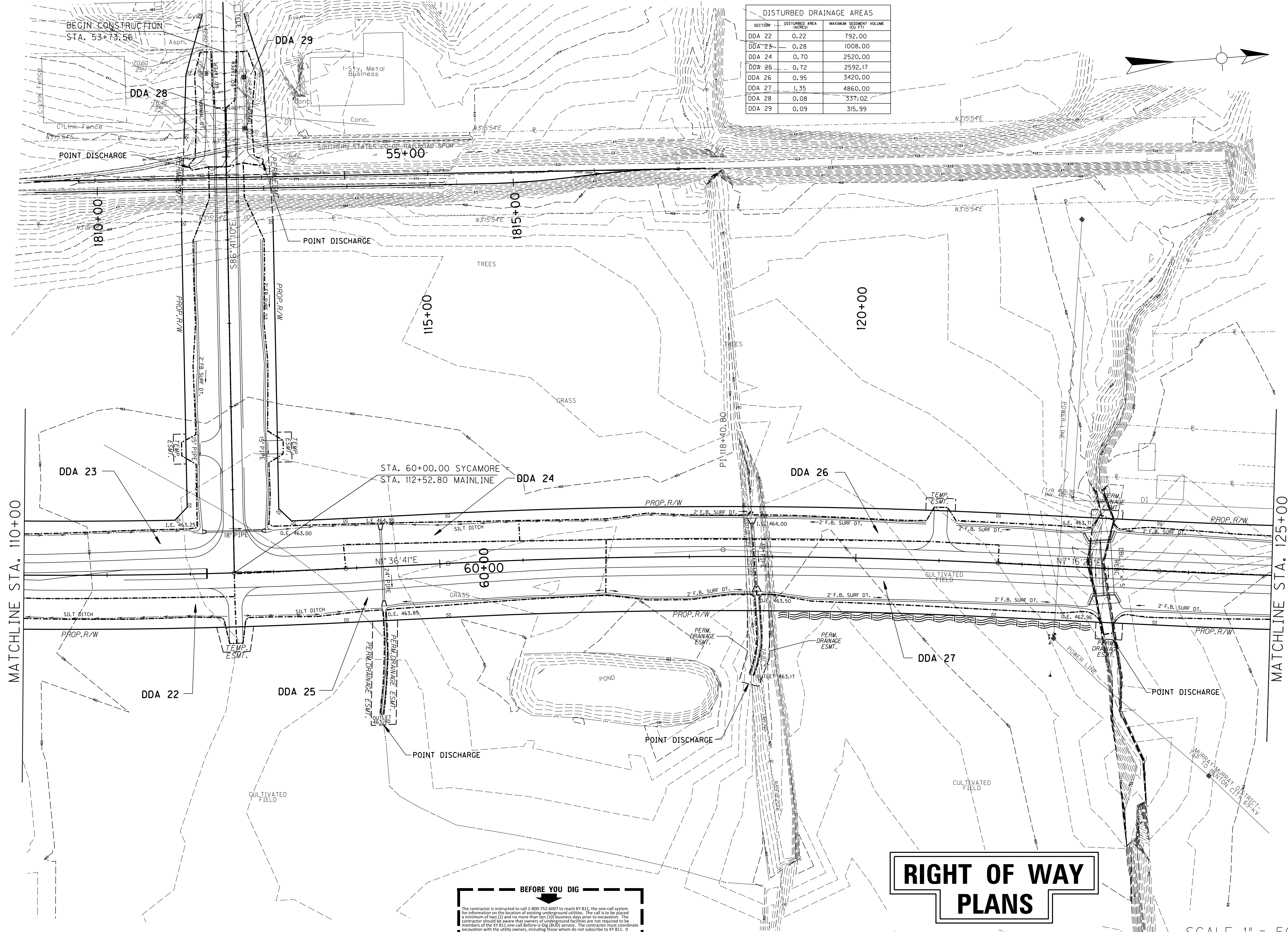
DATE :

1000 W. MARKET STREET  
MURRAY, KY 42071  
PHONE : 270-462-1900  
FAX : 270-462-1901  
WWW.BFWENGINEERS.COM

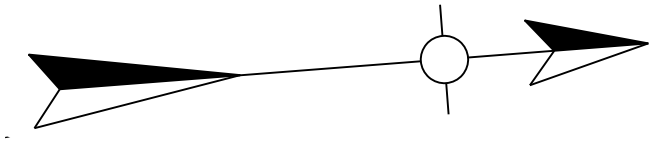


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DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 22	0.22	792.00
DDA 23	0.28	1008.00
DDA 24	0.70	2520.00
DDA 25	0.72	2592.17
DDA 26	0.95	3420.00
DDA 27	1.35	4860.00
DDA 28	0.08	337.02
DDA 29	0.09	315.99



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

BACON FARMER WORKMAN  
 ENGINEERING & TESTING, INC.  
 445 SOUTH COUNTY STREET  
 MURRAY, KY 42071  
 PHONE: 502.221.2207



PLAN - STA. 110+00 TO STA. 125+00  
 MURRAY BUSINESS LOOP  
 CITY OF MURRAY  
 104 NORTH 5TH STREET  
 MURRAY, KY 42071

SHEET  
**36**

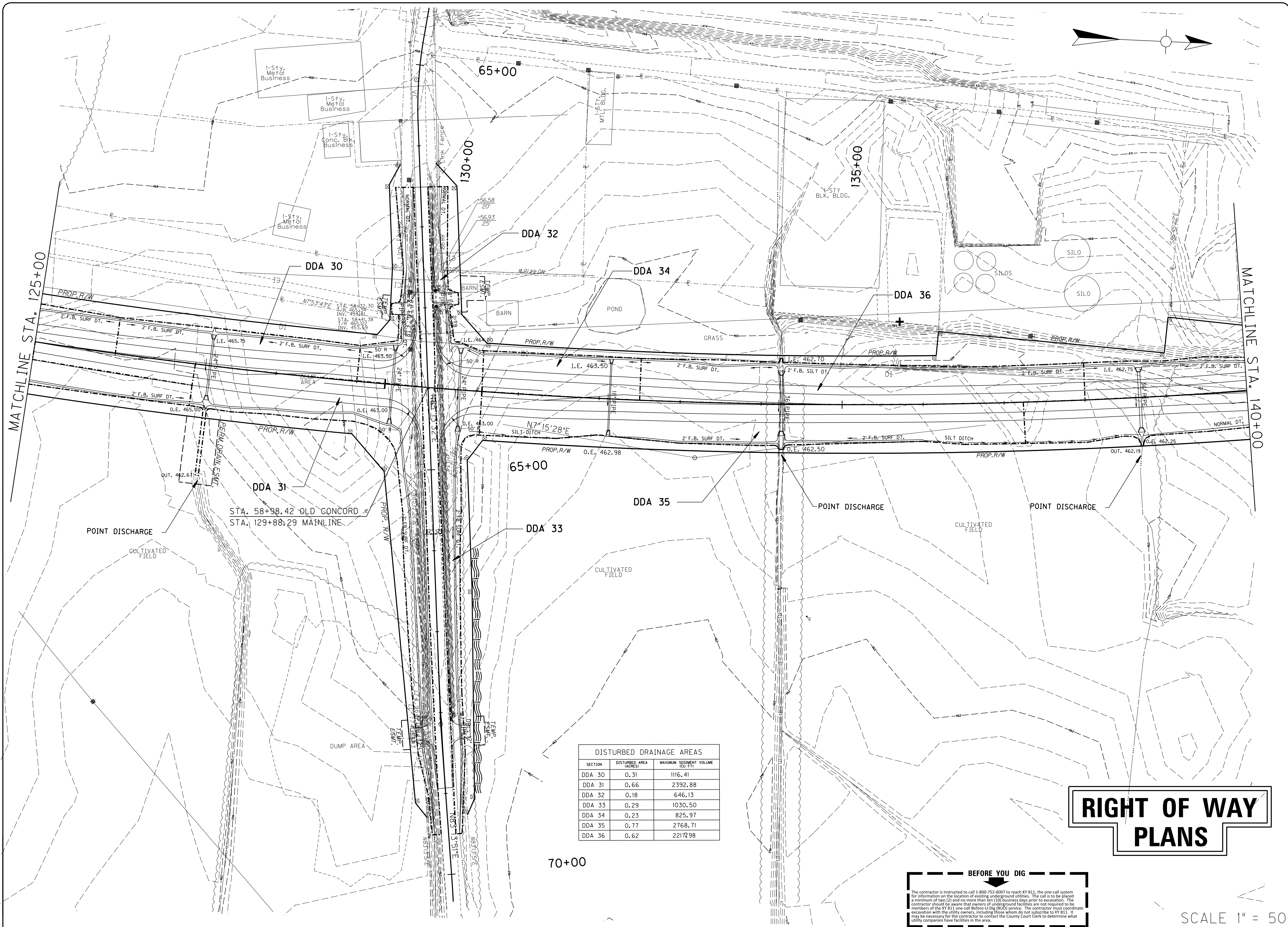
**RIGHT OF WAY  
 PLANS**

SCALE 1" = 50'

**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-a-dig (800) 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.



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**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

**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-a-dig (BU) service. The contractor must coordinate excavation with the utility owners, including those who 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. :  
DRAWING BY :  
REVISION DATES :  
REVISION NOTES :

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

**BACON FARMER WORKMAN**  
ENGINEERING & TESTING, INC.

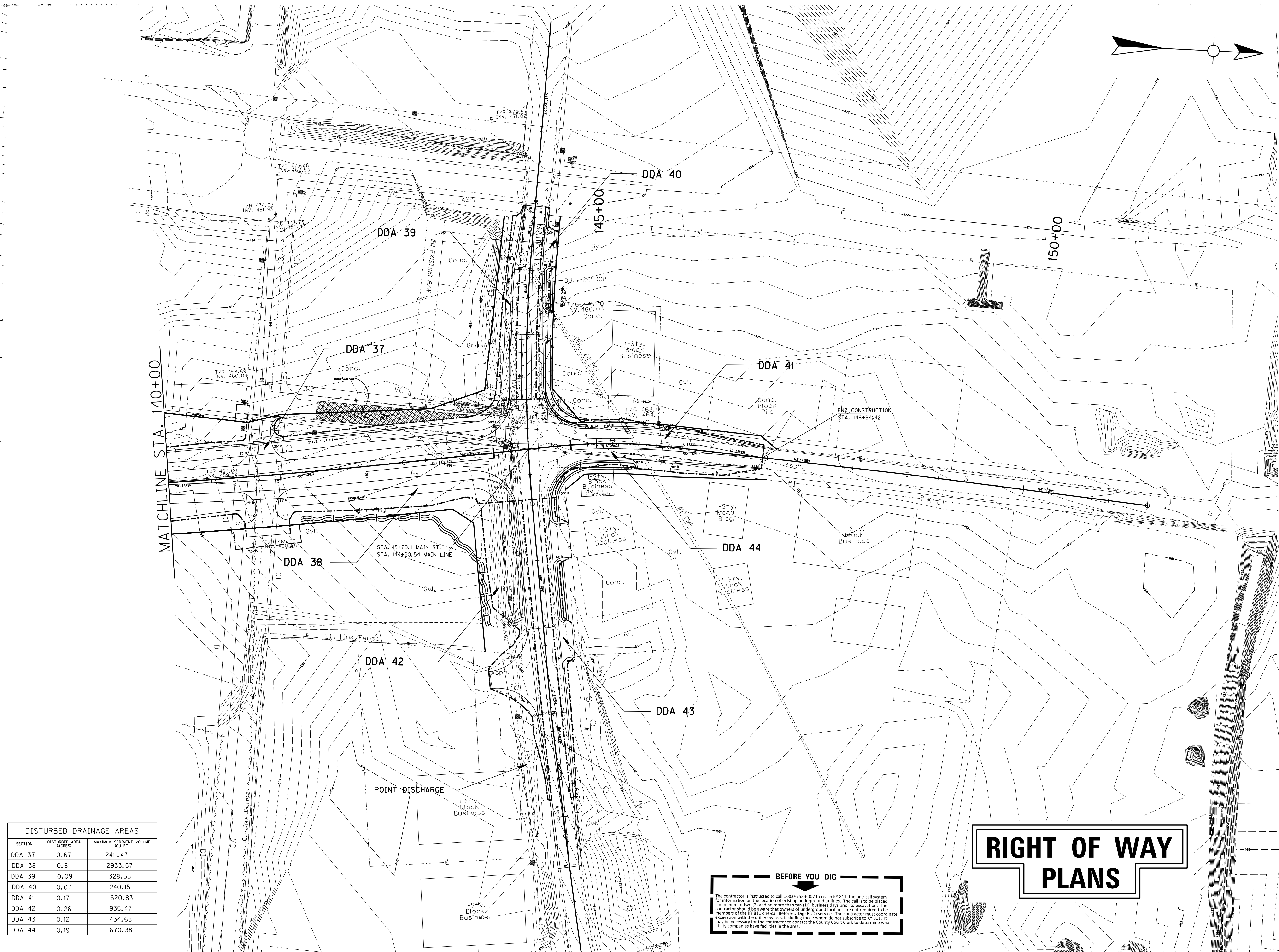
**BFW**

BACON FARMER WORKMAN ENGINEERING & TESTING, INC.  
1000 SOUTH COUNTY STREET  
MURRAY, KY 42071  
PHONE: 270.443.1200  
FAX: 270.443.1209  
WWW.BFWENGINEERS.COM

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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MATCHLINE STA. 140+00

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

**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. If necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

**RIGHT OF WAY PLANS**

SCALE 1" = 50'

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

**BACON FARMER WORKMAN**  
 ENGINEERING & TESTING, INC.

**BFW**

1000 W. MAIN STREET  
 MURRAY, KY 40371  
 PHONE: 502.333.1111  
 FAX: 502.333.1112

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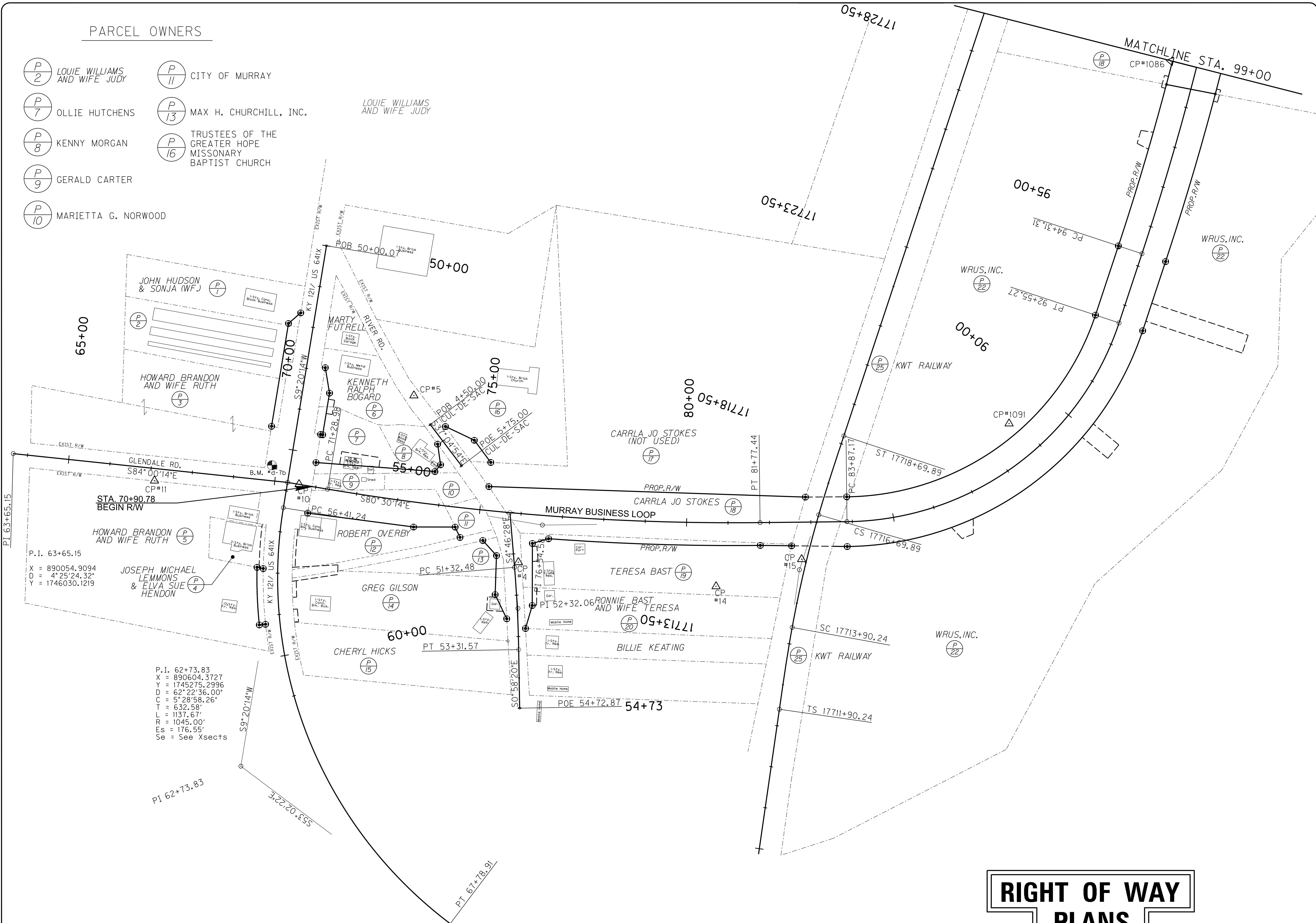
PLAN - STA. 140+00 TO STA. 151+00  
 MURRAY BUSINESS LOOP  
 CITY OF MURRAY  
 104 NORTH 5TH STREET  
 MURRAY, KY 42071

SHEET  
**38**

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PARCEL OWNERS

- P  
2 LOUIE WILLIAMS AND WIFE JUDY
- P  
7 OLLIE HUTCHENS
- P  
8 KENNY MORGAN
- P  
9 GERALD CARTER
- P  
10 MARIETTA G. NORWOOD
- P  
11 CITY OF MURRAY
- P  
13 MAX H. CHURCHILL, INC.
- P  
16 TRUSTEES OF THE GREATER HOPE MISSIONARY BAPTIST CHURCH



**RIGHT OF WAY  
PLANS**

SCALE 1" = 100'

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

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

**BACON | FARMER | WORKMAN**  
ENGINEERING & TESTING, INC.

**BFW**

100 SOUTH 17TH STREET  
MURRAY, KY 40375  
PHONE: 270.253.7927  
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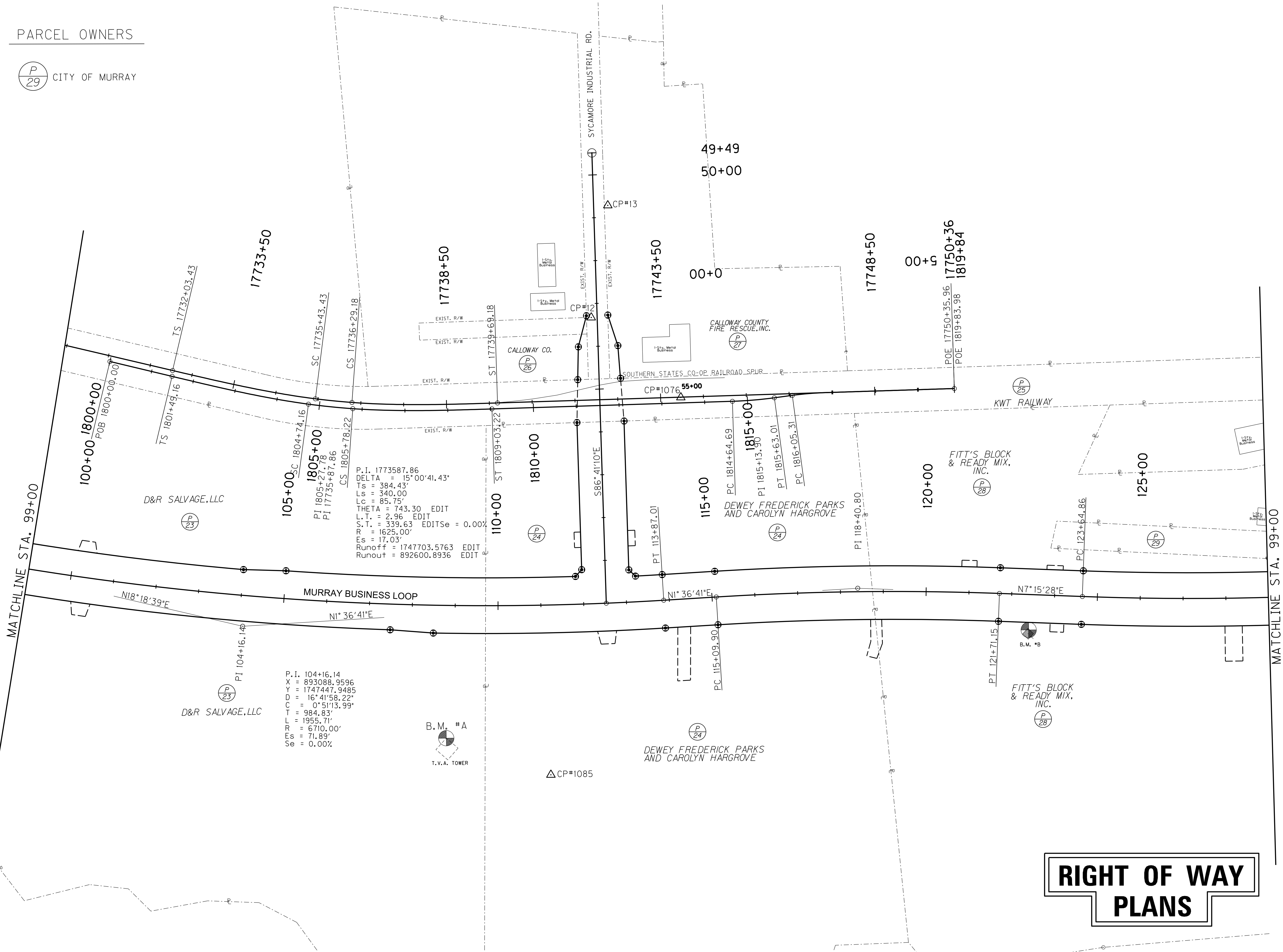
COORDINATE CONTROL  
MURRY BUSINESS LOOP  
CITY OF MURRAY  
104 NORTH 5TH STREET  
MURRAY, KY 42071

SHEET  
**39**

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PARCEL OWNERS

 CITY OF MURRAY



**RIGHT OF WAY  
PLANS**

SCALE 1" = 100'

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

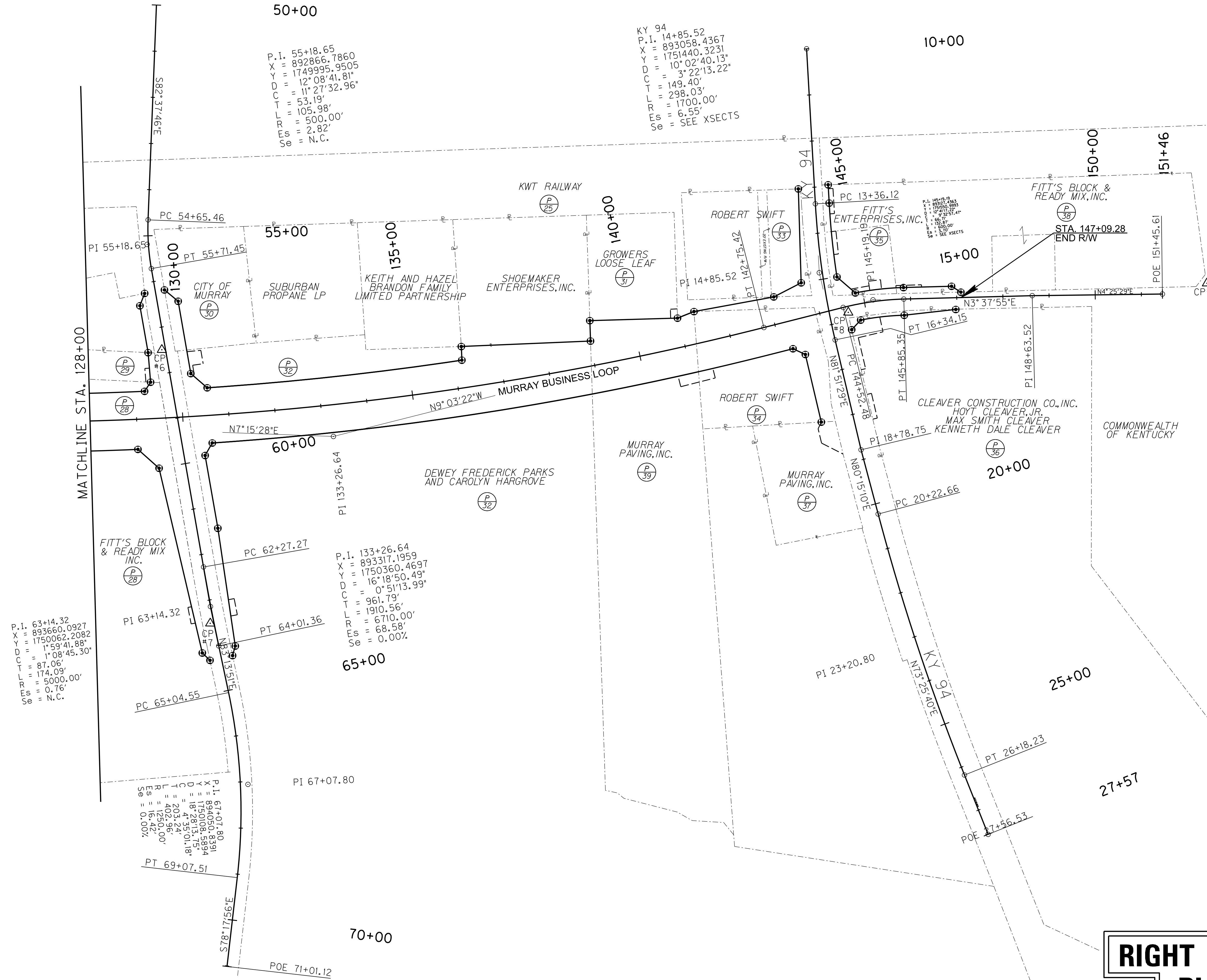
**BFW**  
BACON | FARMER | WORKMAN  
ENGINEERING & TESTING, INC.  
104 NORTH 5TH STREET  
MURRAY, KY 42071  
PHONE: 773-757-2707  
FAX: 773-757-2708  
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PROJECT NO.:	DATE:
DRAWING BY:	
REVISION DATES:	
REVISION NOTES:	

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PARCEL OWNERS

$\frac{P}{29}$  CITY OF MURRAY



# RIGHT OF WAY PLANS

SCALE 1" = 100'

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

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

**BFW**  
BACON | FARMER | WORKMAN  
ENGINEERING & TESTING, INC.

REGISTERED PROFESSIONAL ENGINEERS  
COMMONWEALTH OF KENTUCKY  
PROFESSIONAL LICENSE NO. 10001  
PROFESSIONAL LICENSE NO. 10002

REGISTERED PROFESSIONAL SURVEYORS  
COMMONWEALTH OF KENTUCKY  
PROFESSIONAL LICENSE NO. 10001  
PROFESSIONAL LICENSE NO. 10002

REGISTERED PROFESSIONAL LAND SURVEYORS  
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REGISTERED PROFESSIONAL PAPER ENGINEERS  
COMMONWEALTH OF KENTUCKY  
PROFESSIONAL LICENSE NO. 10001  
PROFESSIONAL LICENSE NO. 10002

DATE:

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

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

BACON FARMER WORKMAN  
ENGINEERING & TESTING, INC.



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MURRAY, KY 40375  
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FAX: 502.851.1001  
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GEOMETRIC LAYOUT SHEET DESCRIPTIONS

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

RIGHT OF WAY  
PLANS

SCALE 1" = 100'

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'

R/W COORDINATE LAYOUT DESCRIPTIONS

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

SHEET  
**43**

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

BACON FARMER WORKMAN  
ENGINEERING & TESTING, INC.  
100 SOUTH 10TH STREET  
MURRAY, KY 42071  
PHONE: 502.333.7007  
FAX: 502.333.7008



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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

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

BACON | FARMER | WORKMAN  
ENGINEERING & TESTING, INC.  
100 SOUTH 17th STREET  
MURRAY, KY 42071  
PHONE: 270-253-7227



R/W COORDINATE LAYOUT DESCRIPTIONS

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

**RIGHT OF WAY  
PLANS**

SCALE 1" = 100'

SHEET  
**44**