

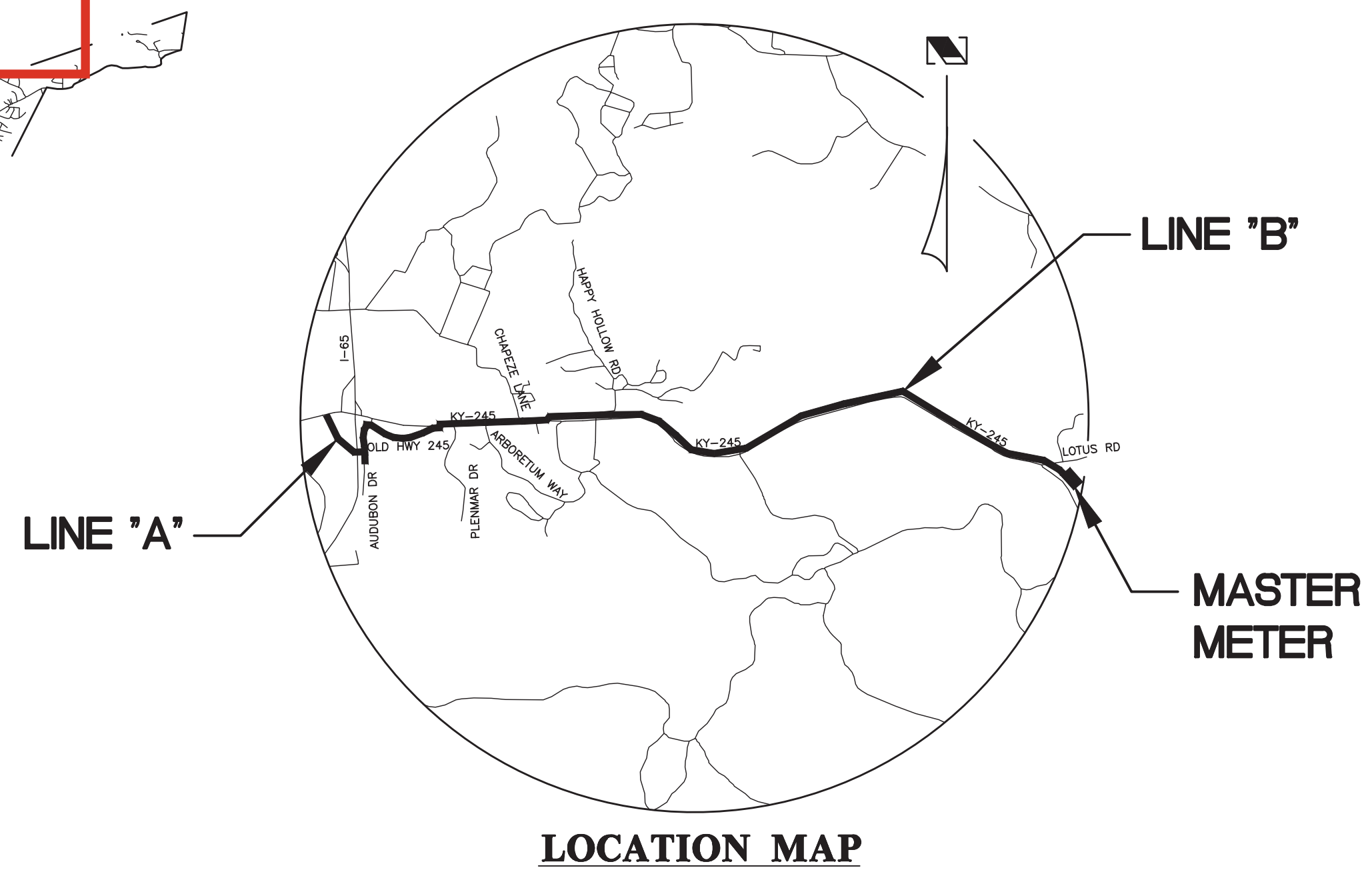
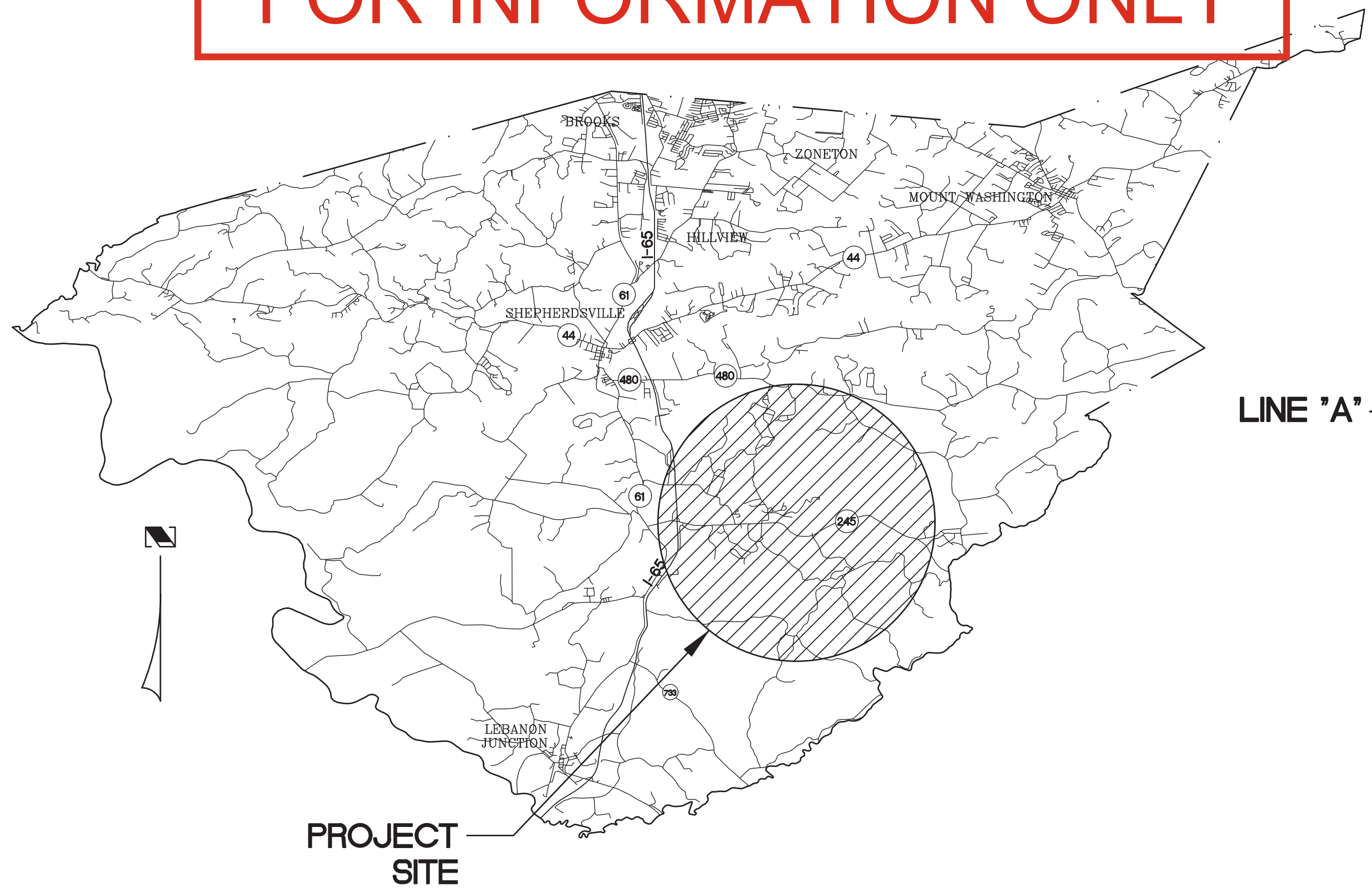
CONSTRUCTION DRAWINGS FOR 690 PLAN N. NELSON WATER DISTRICT HWY. 245 TRANSMISSION MAIN AND MASTER METER

PROJECT NO. 16426
MARCH 2024

Timothy Kraus, PE
VICE PRESIDENT / CHIEF ENGINEER

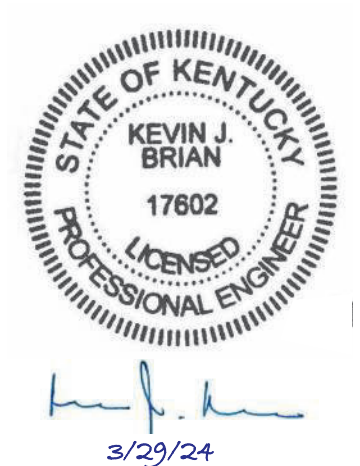
Michael J. Meyer PE
PROJECT MANAGER

FOR INFORMATION ONLY



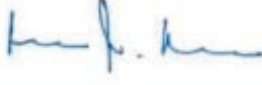
LOUISVILLE WATER COMPANY SYMBOLOGY LEGEND		
	1..... GATE VALVE (LWC STD - OPENS CLOCKWISE)	15..... OUTLET
	2..... GATE VALVE (AWWA STD - CLOSERS CLOCKWISE)	16..... ACCESS MANHOLE
	3..... BUTTERFLY VALVE (LWC STD - OPENS CLOCKWISE)	17..... CHECK VALVE
	4..... BUTTERFLY VALVE (AWWA STD - CLOSERS CLOCKWISE)	18..... PRESSURE PLANE BOUNDARY VALVE
	5..... GATE VALVE WITH BY-PASS VALVE	19..... REDUCER
	6..... BY-PASS GATE VALVE OR LOW DETECTION METER	20..... SAMPLE STATION
	7..... CONNECTING VALVE, INDICATE AS GATE, BUTTERFLY OR LEFT HAND OPEN	21..... ABANDONED VALVE
	8..... TAPPING SLEEVE AND GATE VALVE	22..... VERTICAL BEND
	9..... AIR VALVE, LABEL AS AUTOMATIC OR MANUAL	23..... VERTICAL OFFSET
	10..... PITOMETER W/ ACCESS MANHOLE	24..... ALTITUDE VALVE
	11..... DRAIN, INDICATE AS GATE OR BUTTERFLY	25..... STORAGE TANK
	12..... FIRE HYDRANT, INDICATE AS GATE OR BUTTERFLY	26..... PUMP STATION
	13..... FIRE DOMESTIC SERVICE	27..... CASING PIPE
	14..... INDICATE AS GATE OR BUTTERFLY	28..... PRIVATE WATER MAIN
	15..... PRESSURE REGULATING VALVE	29..... VERTICAL TEE
	16..... ACCESS MANHOLE	30..... PRESSURE REDUCING STATION
	17..... CHECK VALVE	
	18..... PRESSURE PLANE BOUNDARY VALVE	
	19..... REDUCER	
	20..... SAMPLE STATION	
	21..... ABANDONED VALVE	
	22..... VERTICAL BEND	
	23..... VERTICAL OFFSET	
	24..... ALTITUDE VALVE	
	25..... STORAGE TANK	
	26..... PUMP STATION	
	27..... CASING PIPE	
	28..... PRIVATE WATER MAIN	
	29..... VERTICAL TEE	
	30..... PRESSURE REDUCING STATION	

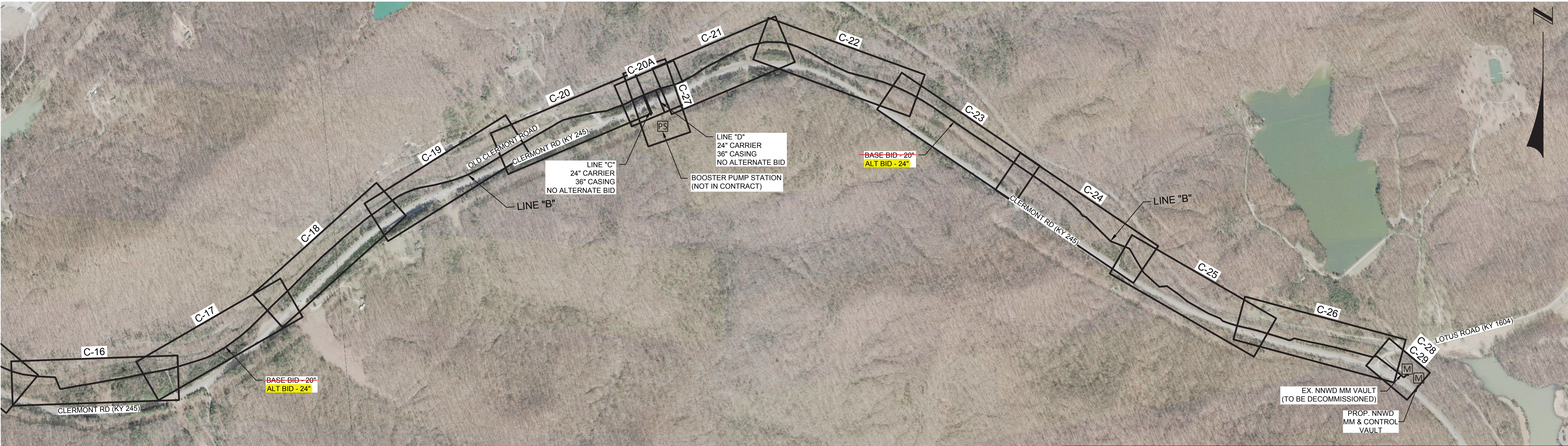
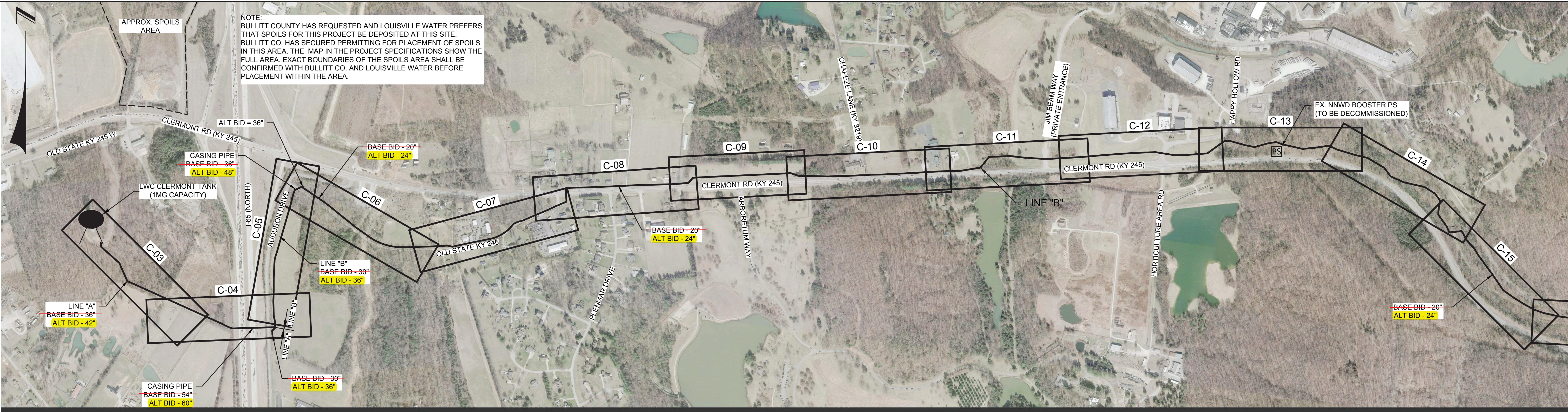
CONFORMED SET



INDEX OF DRAWINGS			
SHEET NO.	DESCRIPTION	SHEET NO.	DESCRIPTION
G-01	COVER SHEET	C-32	TANK SITE WATER MAIN TIE IN DETAILS
G-02	INDEX OF SHEETS	C-33	TANK SITE WATER MAIN TIE IN DETAILS
G-03	SHEET LAYOUT	C-34	TANK SITE WATER MAIN TIE IN DETAILS
G-04	GENERAL NOTES AND LEGEND	C-35	LWC STANDARD DETAILS
G-05	PROPOSED FLOW SCHEMATIC	C-36	SPECIAL WATER MAIN DETAILS
C-01	HYDRAULIC GRADE & COMPRESSED PROFILE	C-36A	SPECIAL WATER MAIN DETAILS
C-02	HYDRAULIC GRADE & COMPRESSED PROFILE	C-36B	SPECIAL WATER MAIN DETAILS
C-03	LINE "A" - STA 10+00 TO 21+00	C-36C	SPECIAL WATER MAIN DETAILS
C-04	LINE "A" - STA 21+00 TO END	C-37	SPECIAL WATER MAIN DETAILS
C-05	LINE "B" - STA 4+84 TO 20+00	C-37A	SPECIAL WATER MAIN DETAILS
C-06	LINE "B" - STA 20+00 TO 34+00	C-38	SPECIAL WATER MAIN DETAILS
C-07	LINE "B" - STA 34+00 TO 47+00	C-39	SPECIAL WATER MAIN DETAILS
C-08	LINE "B" - STA 47+00 TO 62+00	C-39A	CATHODIC PROTECTION DETAILS
C-08A	LINE "B" - STA 47+00 TO 62+00 - ROADWAY ALIGNMENT CROSS SECTIONS	C-40	SITE AND RESTORATION DETAILS
C-08B	LINE "B" - STA 47+00 TO 62+00 - ROADWAY ALIGNMENT CROSS SECTIONS	C-41	EPSC DETAILS
C-09	LINE "B" - STA 62+00 TO 74+00	C-42	EPSC DETAILS
C-10	LINE "B" - STA 74+00 TO 88+00	C-43	EPSC DETAILS
C-11	LINE "B" - STA 88+00 TO 102+00	C-44	THRUST BLOCK NOTES
C-12	LINE "B" - STA 102+00 TO 116+00	C-45	THRUST BLOCK DETAILS
C-13	LINE "B" - STA 116+00 TO 130+00	C-46	THRUST BLOCK DETAILS
C-14	LINE "B" - STA 130+00 TO 143+00	MT-01	MAINTENANCE OF TRAFFIC GENERAL NOTES & PHASING
C-15	LINE "B" - STA 143+00 TO 158+00	MT-02	MAINTENANCE OF TRAFFIC OVERVIEW & TEMPORARY CROSSINGS
C-16	LINE "B" - STA 158+00 TO 172+00	D-01	MASTER METER & CONTROL VAULT INTERIOR PLAN & SECTION VIEWS
C-17	LINE "B" - STA 172+00 TO 186+00	D-02	MASTER METER & CONTROL VAULT EXTERIOR PLAN & DETAILS
C-18	LINE "B" - STA 186+00 TO 200+00	D-03	MASTER METER & CONTROL VAULT DETAILS
C-19	LINE "B" - STA 200+00 TO 214+00	E-01	MASTER METER & CONTROL VAULT STATION ELECTRICAL SITE PLAN
C-20	LINE "B" - STA 214+00 TO 227+00	E-02	BARDSTOWN WITHROW TANK ELECTRICAL SITE PLAN
C-20A	LINE "B" - STA 227+00 TO 231+00	E-03	MASTER METER & CONTROL VAULT ELECTRICAL DETAILS
C-21	LINE "B" - STA 231+00 TO 242+00	E-04	MASTER METER & CONTROL VAULT ELECTRICAL DETAILS
C-22	LINE "B" - STA 242+00 TO 256+00	E-05	MASTER METER & CONTROL VAULT ELECTRICAL DETAILS
C-23	LINE "B" - STA 256+00 TO 270+00	E-06	BARDSTOWN WITHROW TANK ELECTRICAL DETAILS
C-24	LINE "B" - STA 270+00 TO 284+00	I-01	MASTER METER VAULT & BARDSTOWN WITHROW TANK P& ID
C-25	LINE "B" - STA 284+00 TO 298+00	I-02	MASTER METER VAULT & BARDSTOWN WITHROW TANK P& ID
C-26	LINE "B" - STA 298+00 TO 310+73	I-03	MASTER METER VAULT & BARDSTOWN WITHROW TANK P& ID
C-27	LINE "C" & LINE "D" - 24" BPS PIPES PLANS & PROFILES	I-04	SYSTEM ARCHITECTURE
C-28	MASTER METER & CONTROL VAULT EXISTING SITE & DEMOLITION PLAN		
C-29	MASTER METER & CONTROL VAULT YARD PIPING, GRADING, & EPSC PLAN		
C-30	MASTER METER & CONTROL VAULT YARD PIPING PROFILE (1 OF 2)		
C-30A	MASTER METER & CONTROL VAULT YARD PIPING PROFILE (2 OF 2)		
C-31	NOT USED		



INSPECTION CERTIFICATION I hereby certify, to the best of my knowledge and belief, that the water main project has been constructed and tested in accordance with the approved plans and specifications.		  SIGNATURE 3/29/24 DATE	LOUISVILLE WATER COMPANY 550 S. 3RD STREET • LOUISVILLE, KENTUCKY 40202 (502) 569-3600 SPENCER W. BRUCE, PE - PRESIDENT TIMOTHY KRAUS, P.E. - VICE PRESIDENT/CHIEF ENGINEER
NAME (PRINT) _____ NAME (SIGNATURE) _____ DATE _____			690 PLAN N. NELSON WATER DISTRICT HWY. 245 TRANSMISSION MAIN AND MASTER METER
INDEX OF DRAWINGS			
DATE 03/21/24	SCALE NTS	MAP NO. -----	SHEET G-02 of 74
DRAWN BY TMA	CHECKED BY RLG	ENGR. KJB	
PROJECT NUMBER 16426	TASK NUMBER ---		



INSPECTION CERTIFICATION

I hereby certify, to the best of my knowledge and belief, that the water main project has been constructed and tested in accordance with the approved plans and specifications.

NAME (PRINT)	
NAME (SIGNATURE)	
DATE	



SIGNATURE	
DATE	3/29/24

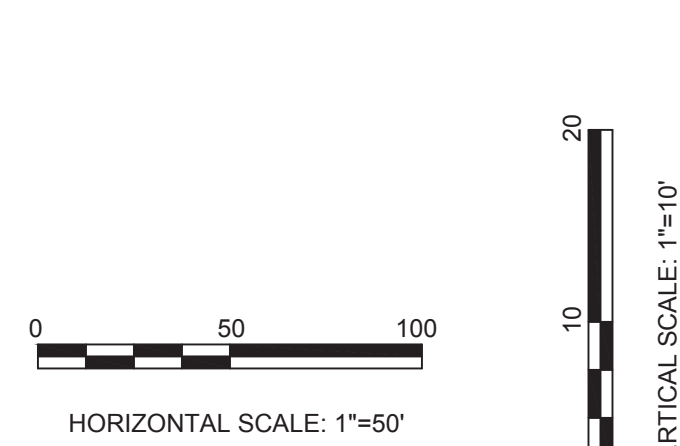
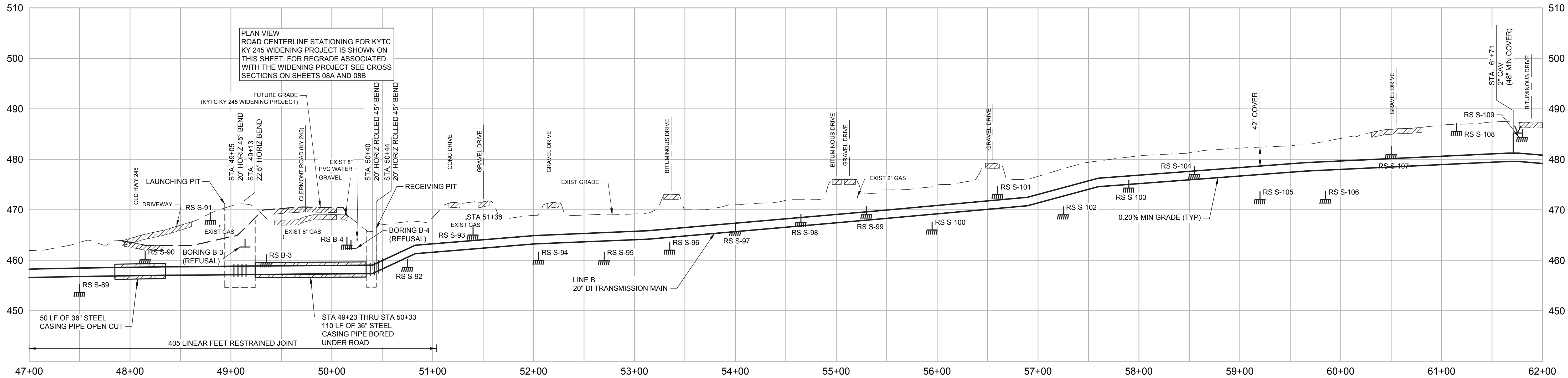
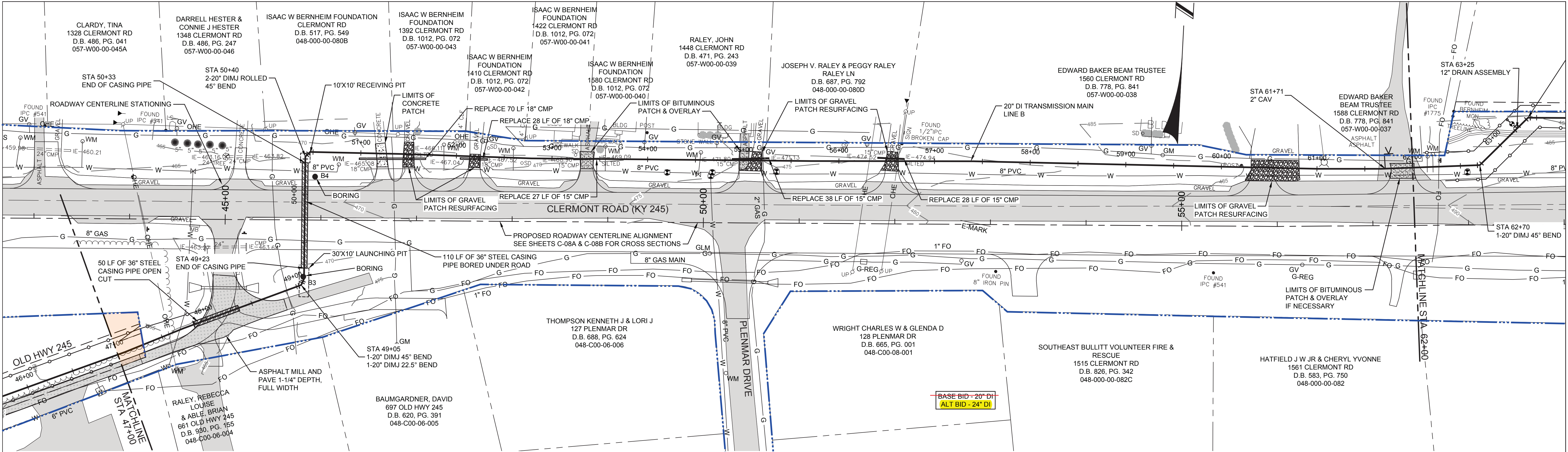
LOUISVILLE WATER COMPANY

550 S. 3RD STREET • LOUISVILLE, KENTUCKY 40202 (502) 569-3600
SPENCER W. BRUCE, PE - PRESIDENT
TIMOTHY KRAUS, P.E. - VICE PRESIDENT/CHIEF ENGINEER

690 PLAN N. NELSON WATER DISTRICT
HWY. 245 TRANSMISSION MAIN AND MASTER METER

SHEET LAYOUT

DATE	03/21/24	SCALE	1" = 500'	MAP NO.	-----
DRAWN BY	TMA	CHECKED BY	RLG	ENGR.	KJB
PROJECT NUMBER	16426	SHEET	G-03 of 74		
TASK NUMBER	---				



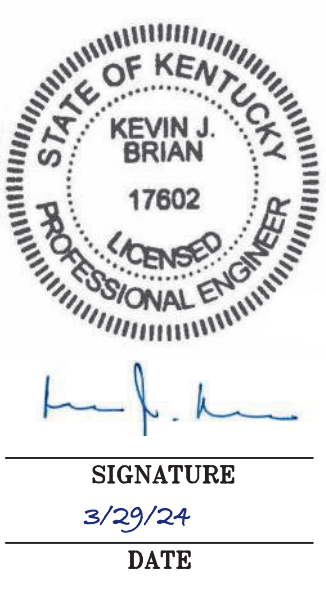
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PIPE PROFILE
IF ALT BID WITH LARGER PIPE DIAMETER IS SELECTED, CONTRACTOR SHALL HOLD THE TOP OF PIPE ELEVATION.



INSPECTION CERTIFICATION
I hereby certify, to the best of my knowledge and belief, that the water main project has been constructed and tested in accordance with the approved plans and specifications.

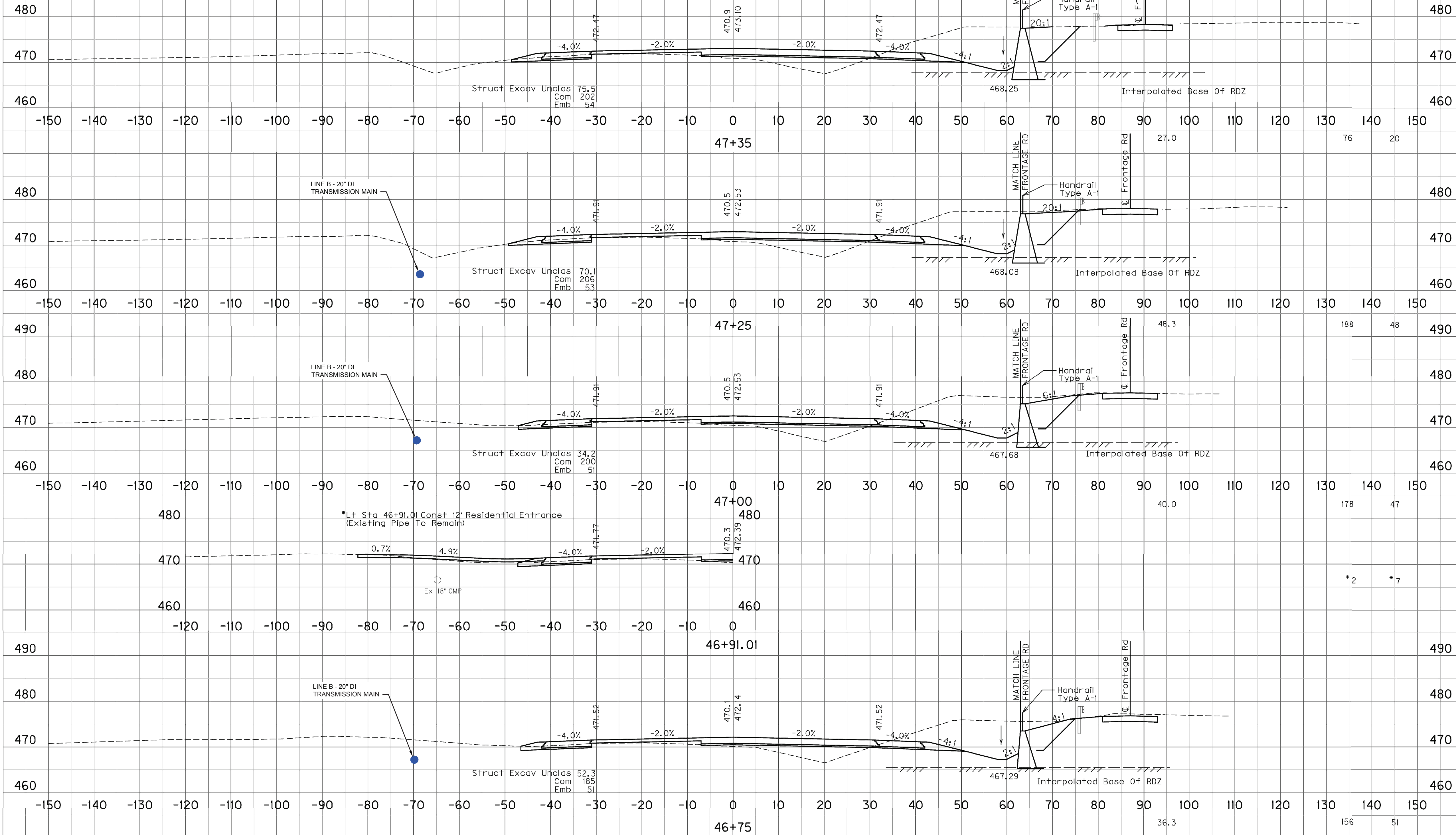
NAME (PRINT) _____
NAME (SIGNATURE) _____
DATE _____



LOUISVILLE WATER COMPANY 550 S. 3RD STREET • LOUISVILLE, KENTUCKY 40202 (502) 569-3600 SPENCER W. BRUCE, PE - PRESIDENT TIMOTHY KRAUS, P.E. - VICE PRESIDENT/CHIEF ENGINEER			
690 PLAN N. NELSON WATER DISTRICT HWY. 245 TRANSMISSION MAIN AND MASTER METER			
LINE B - STA 47+00 TO 62+00 20" DI TRANSMISSION MAIN			
DATE 03/21/24	SCALE 1"=50'	MAP NO. _____	
DRAWN BY TMA	CHECKED BY RLK	ENGR. KJB	
PROJECT NUMBER 16426	SHEET		C-08 of 74
TASK NUMBER			

COUNTY OF	ITEM NO.	SHEET NO.
BULLITT	5-8509.00	X22

Com Emb



SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

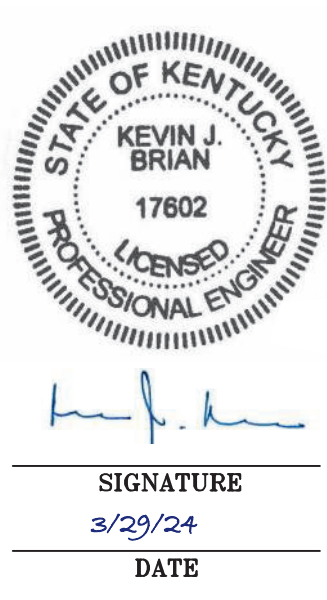
KY 245
STA. 46+75 TO STA. 47+35

NOTE:
FUTURE ROAD IMPROVEMENTS CROSS SECTIONS
ARE SHOWN FOR REFERENCE ONLY. ROAD
IMPROVEMENTS ARE NOT PART OF THIS CONTRACT.

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LOUISVILLE WATER COMPANY
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TIMOTHY KRAUS, P.E. - VICE PRESIDENT/CHIEF ENGINEER

690 PLAN N. NELSON WATER DISTRICT
HWY. 245 TRANSMISSION MAIN AND MASTER METER

LINE B - STA 47+00 TO 62+00
ROADWAY ALIGNMENT CROSS SECTIONS

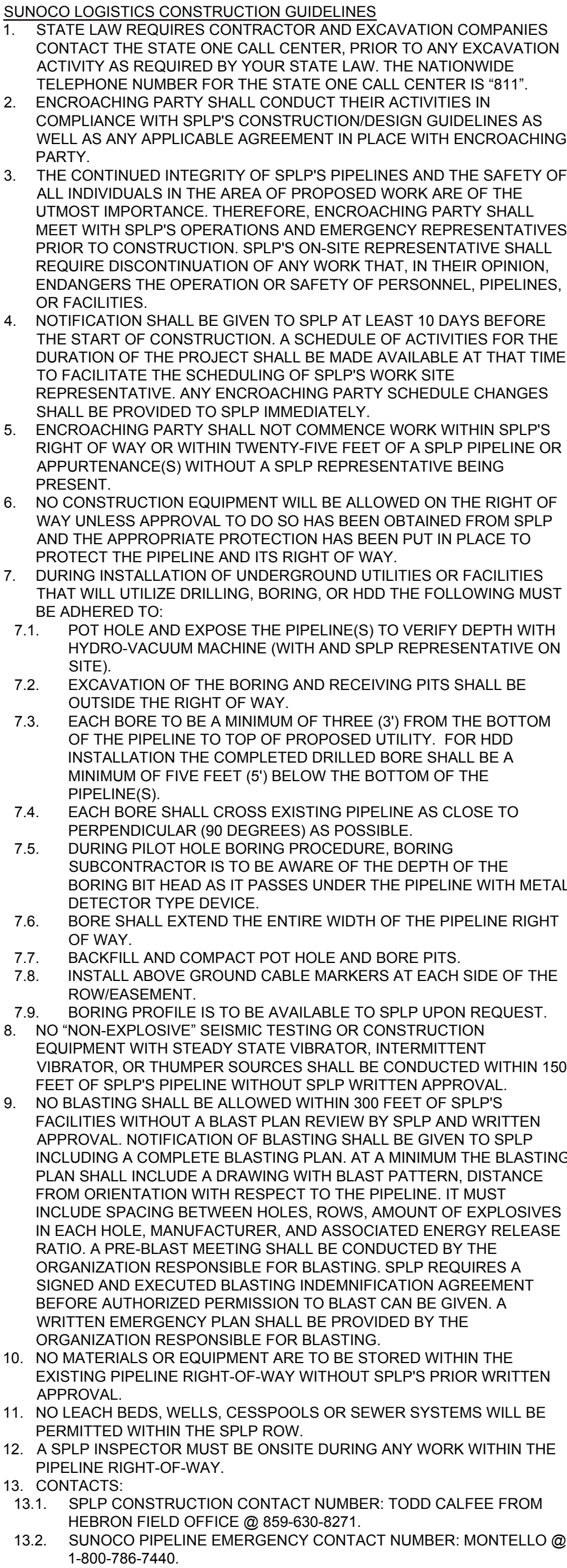
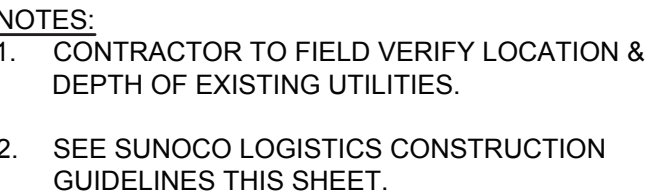
DATE	03/21/24	SCALE AS NOTED	MAP NO.
DRAWN BY	TMA	CHECKED BY	ENGR. KJB
PROJECT NUMBER	16426	SHEET	C-08B OF 74
TASK NUMBER	---		

HORIZONTAL SCALE: 1"=10'

VERTICAL SCALE: 1"=10'



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CATHODIC PROTECTION NOTES:
TO PROTECT THE NEW DI WATER MAIN FROM STRAY CURRENTS FROM THE FOREIGN PIPELINE CP SYSTEM THE CONTRACTOR SHALL PROVIDE THE FOLLOWING:

1. INSTALL DI WATER MAIN IN PVC CASING AS SHOWN. PROVIDE NEOPRENE RUBBER END SEALS EACH END.
2. DI PIPE JOINTS THROUGH AND 5 FEET BEYOND PVC CASING ON EACH SIDE SHALL BE BONDED.
3. TWO (2) SACRIFICIAL ANODES SHALL BE INSTALLED WITH A FLUSH MOUNTED TEST STATION.
4. SEE CP DETAILS ON SHEET C-39A.



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PIPE PROFILE
IF ALT BID WITH LARGER PIPE DIAMETER IS
SELECTED, CONTRACTOR SHALL HOLD THE
TOP OF PIPE ELEVATION.

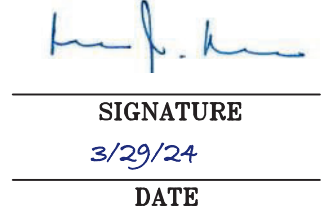
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NAME (PRINT)

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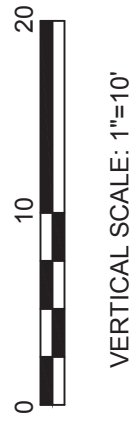
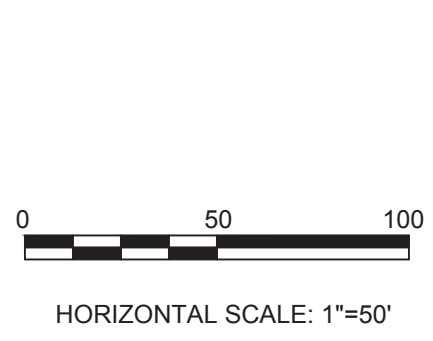
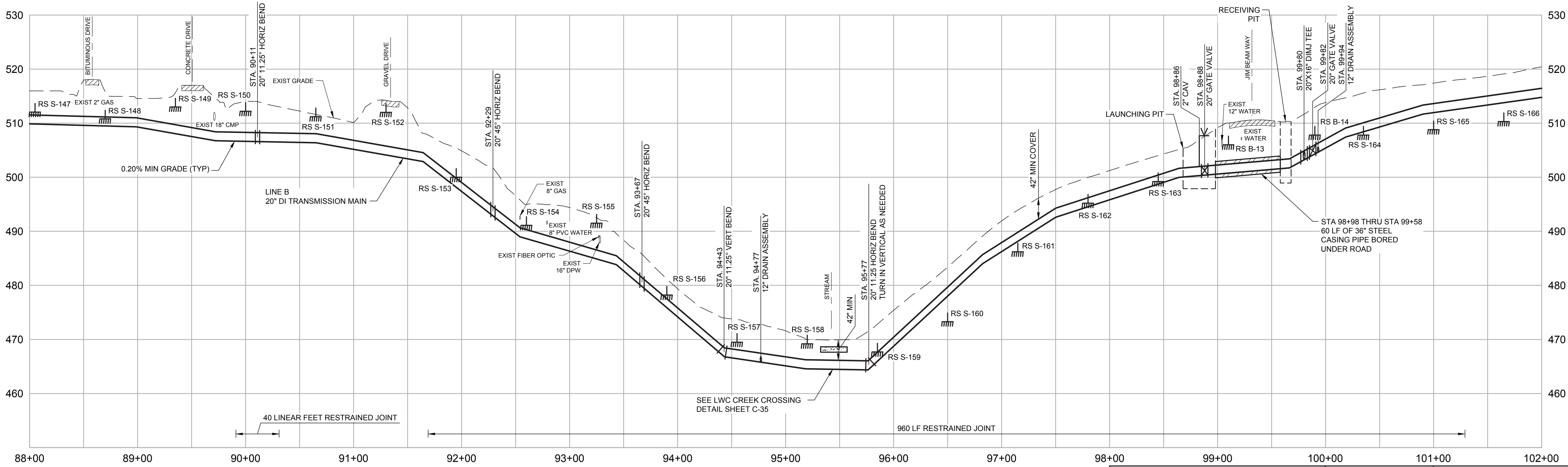
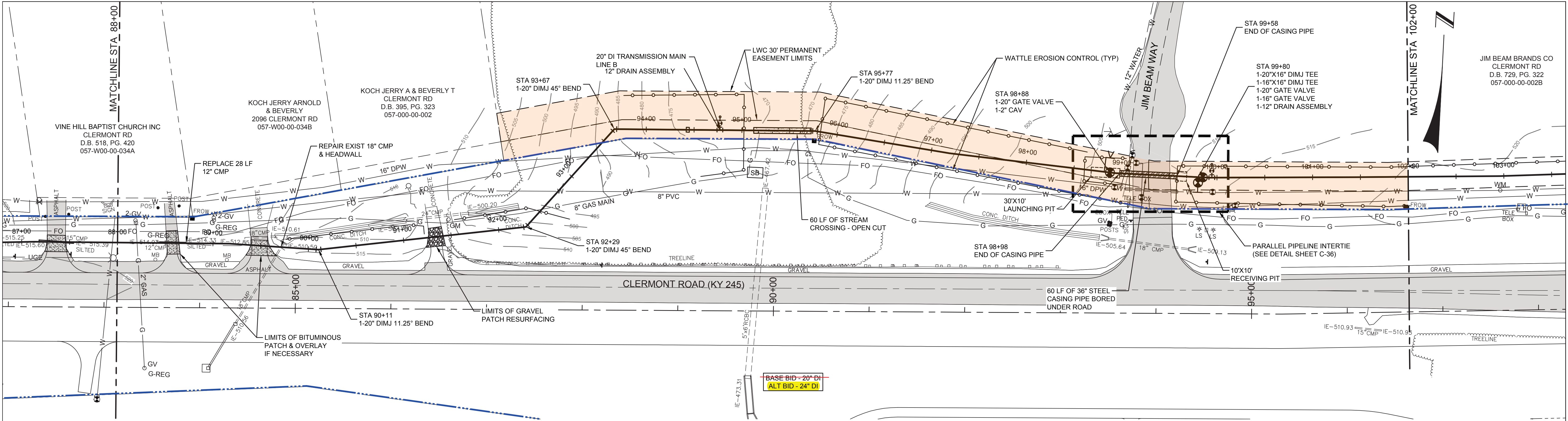
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690 PLAN N. NELSON WATER DISTRICT
HWY. 245 TRANSMISSION MAIN AND MASTER METER

LINE B - STA 62+00 TO 74+00
20" DI TRANSMISSION MAIN

DATE	03/21/24	SCALE	1"=50'	MAP	NO. _____
DRAWN BY	TMA	CHECKED BY	RLG	ENGR.	KJB
PROJECT NUMBER	16426		SHEET	C-09 OF 74	
TASK NUMBER					





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BASE BID - 20" DI
ALT BID - 24" DI

PIPE PROFILE
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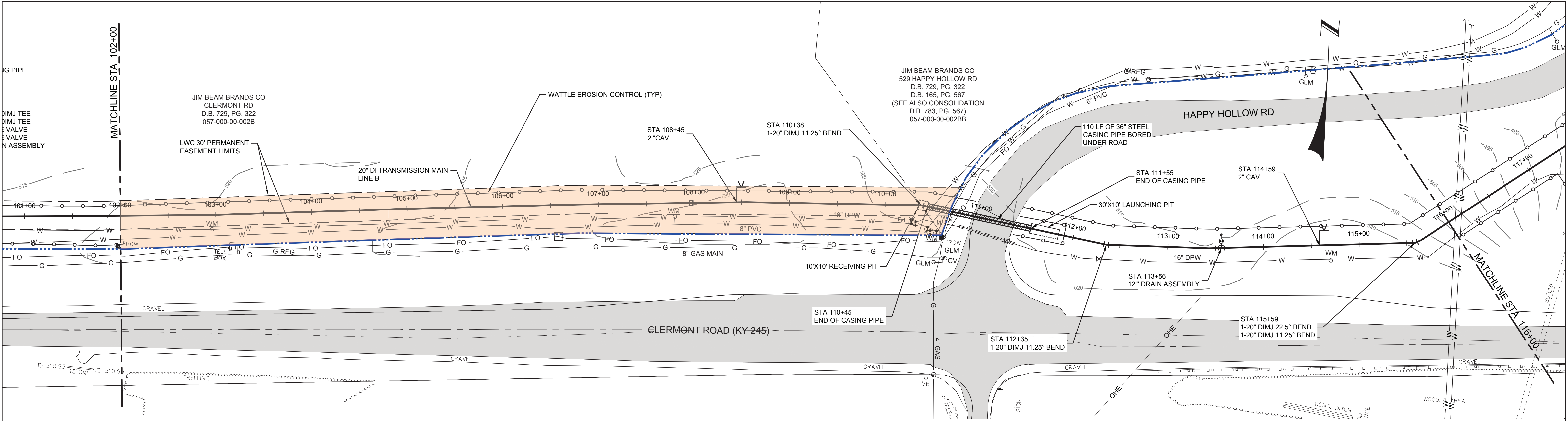


SIGNATURE
3/29/24
DATE

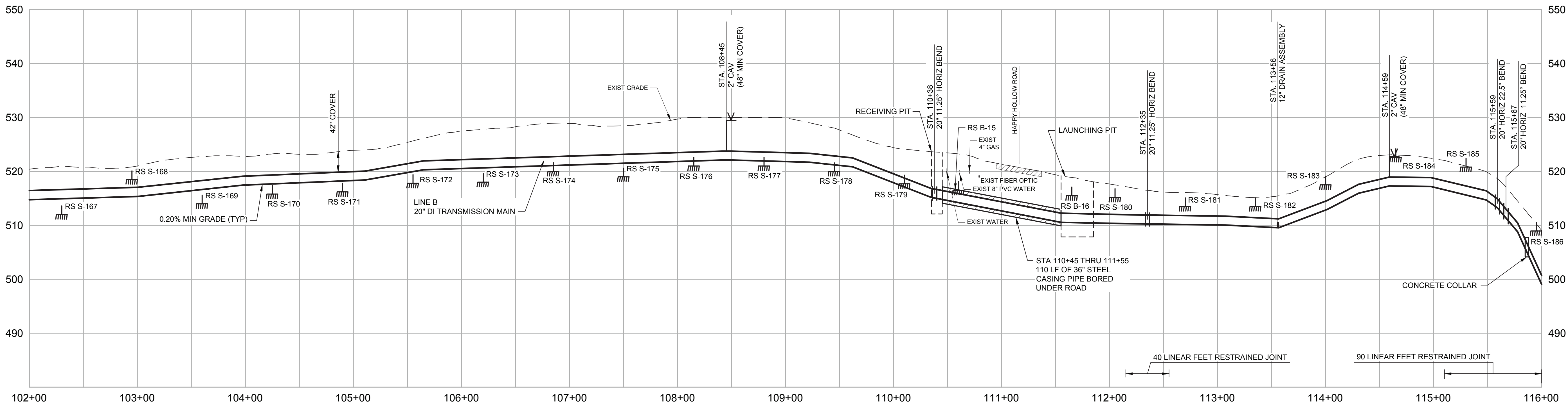
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690 PLAN N. NELSON WATER DISTRICT
HWY. 245 TRANSMISSION MAIN AND MASTER METER
LINE B - STA 88+00 TO 102+00
20" DI TRANSMISSION MAIN

DATE	03/21/24	SCALE	1"=50'	MAP NO.	----
DRAWN BY	TMA	CHECKED BY	RLG	ENGR.	KJB
PROJECT NUMBER	16426	SHEET	C-11 of 74		
TASK NUMBER	---				

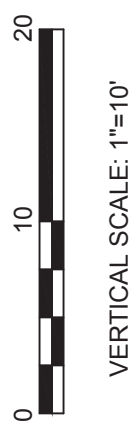
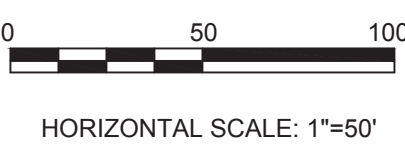


BASE BID - 20" DI
ALT BID - 24" DI



BASE BID - 20" DI
ALT BID - 24" DI

PIPE PROFILE
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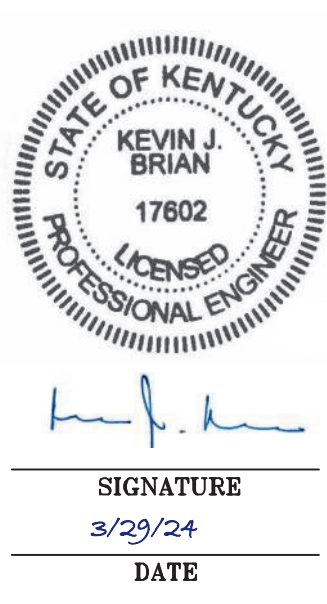
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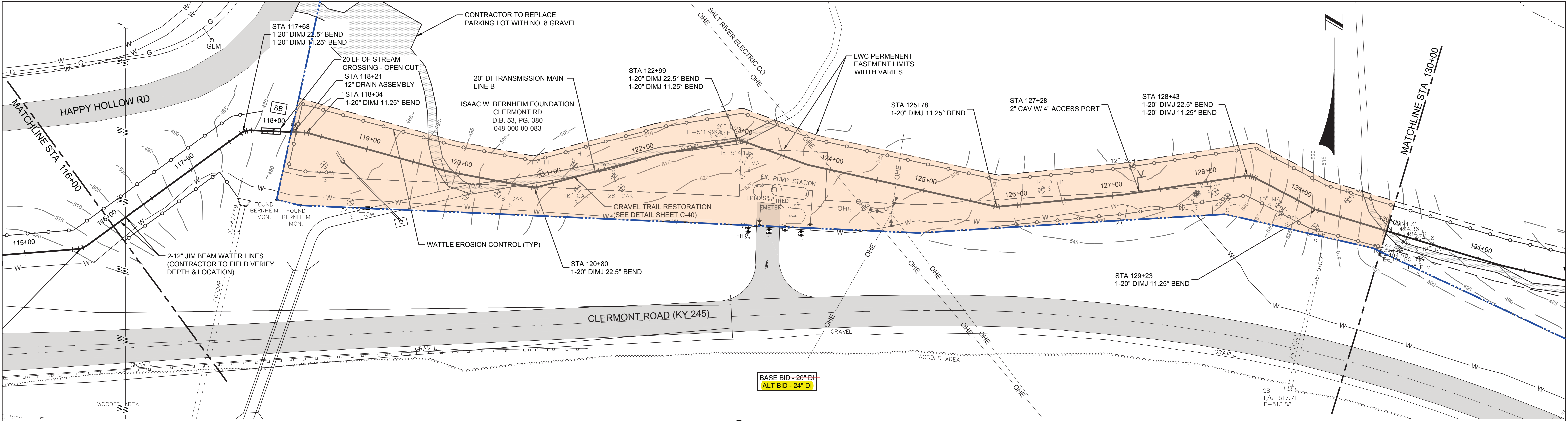


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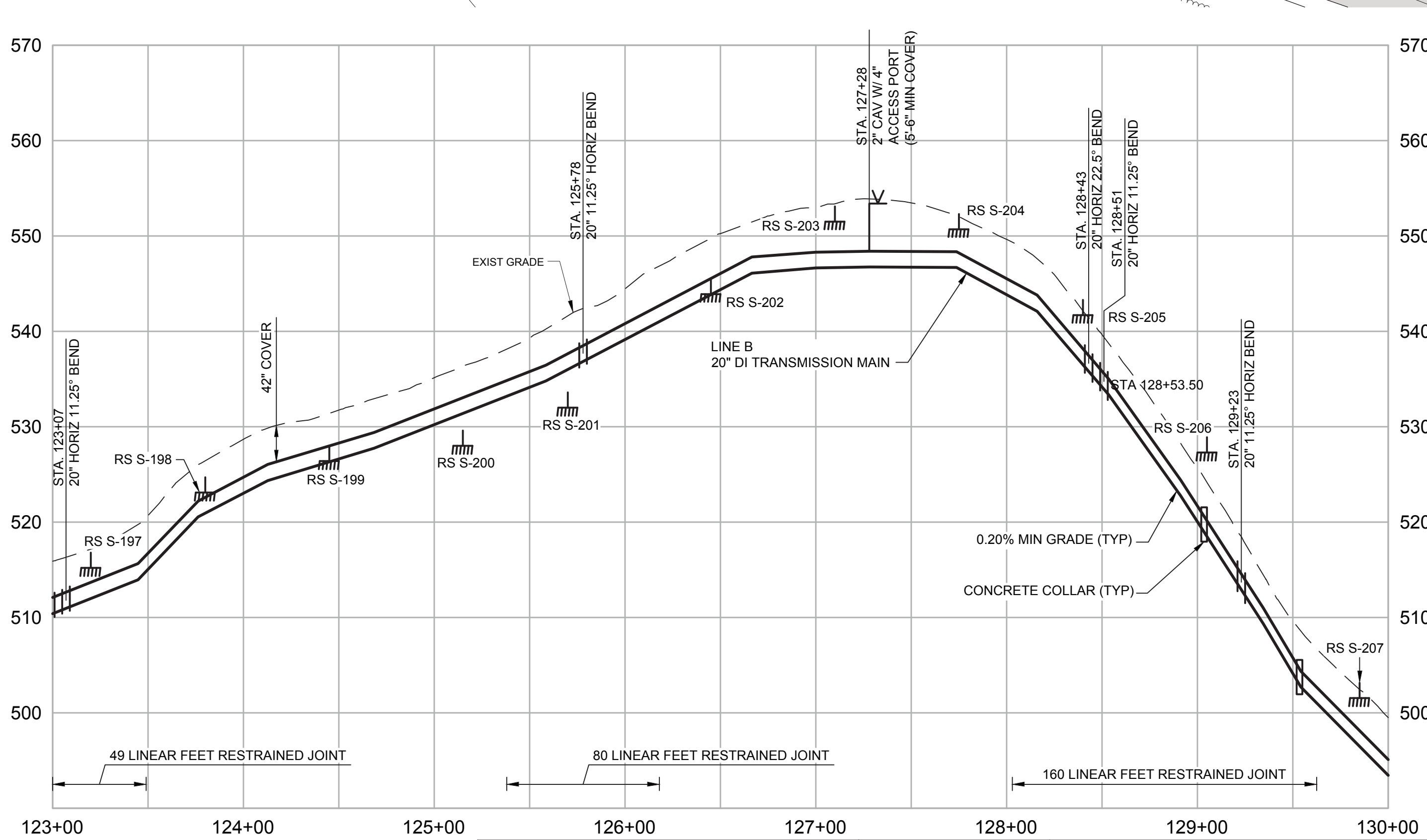
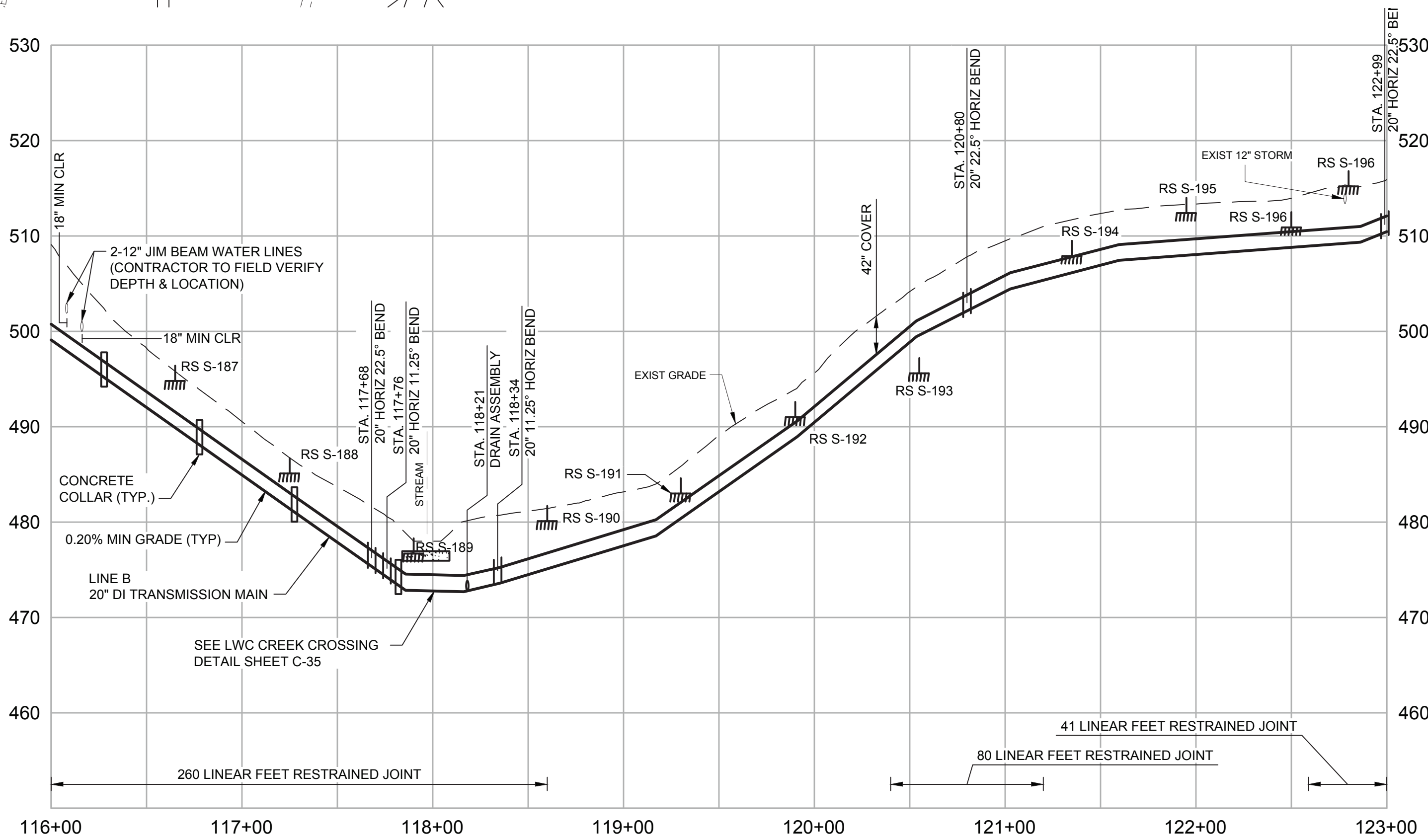
690 PLAN N. NELSON WATER DISTRICT
HWY. 245 TRANSMISSION MAIN AND MASTER METER

LINE B - STA 102+00 TO 116+00
20" DI TRANSMISSION MAIN

DATE 03/21/24	SCALE 1"=50'	MAP NO. _____
DRAWN BY TMA	CHECKED BY RLG	ENGR. KJB
PROJECT NUMBER 16426	SHEET	C-12 OF 74
TASK NUMBER		

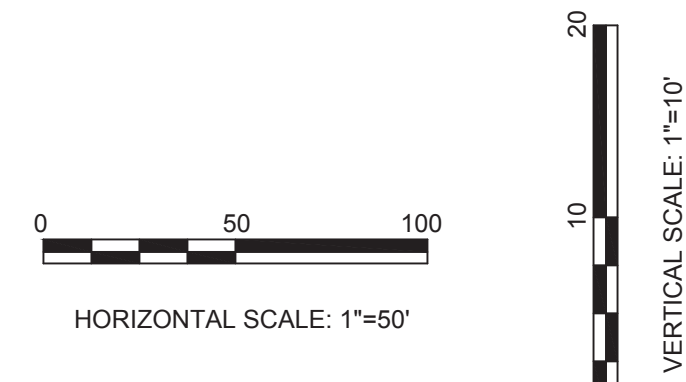


BASE BID - 20" DI
ALT BID - 24" DI



BASE BID - 20" DI
ALT BID - 24" DI

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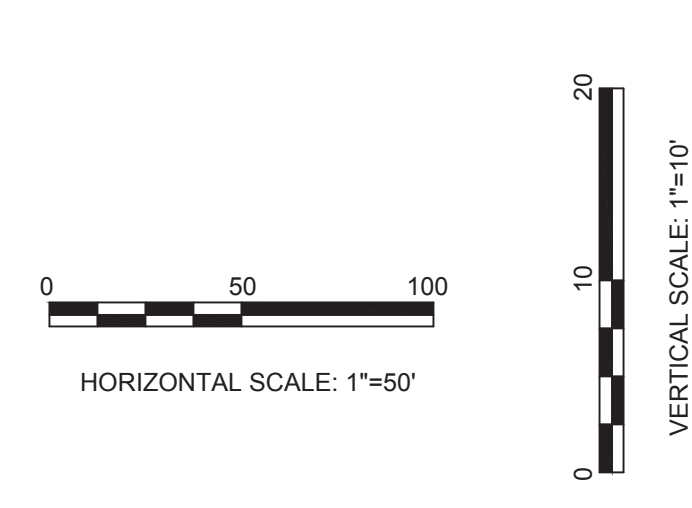
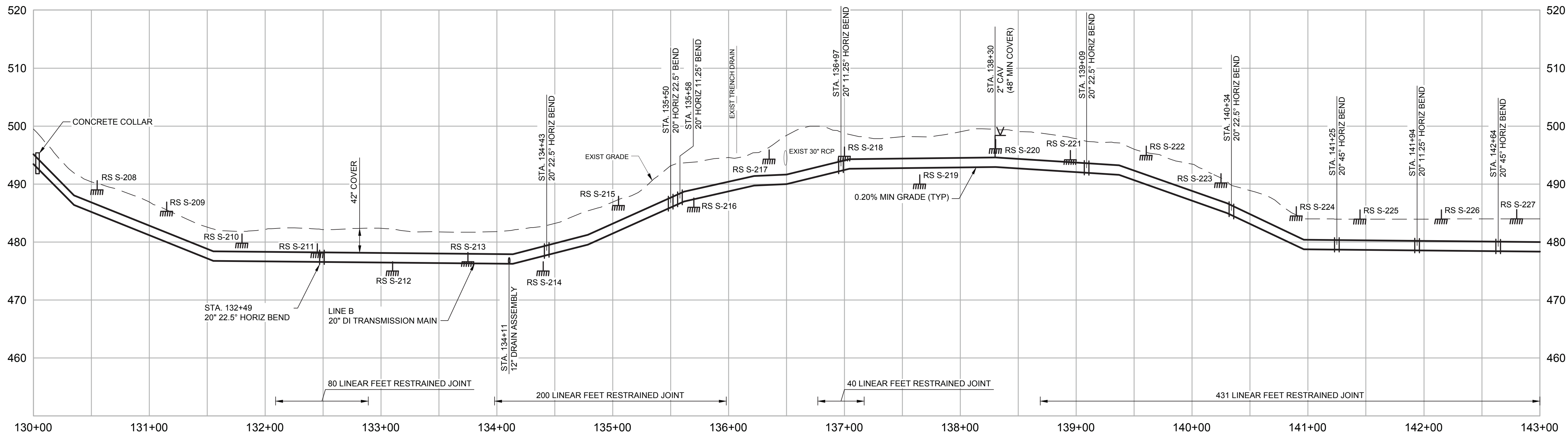
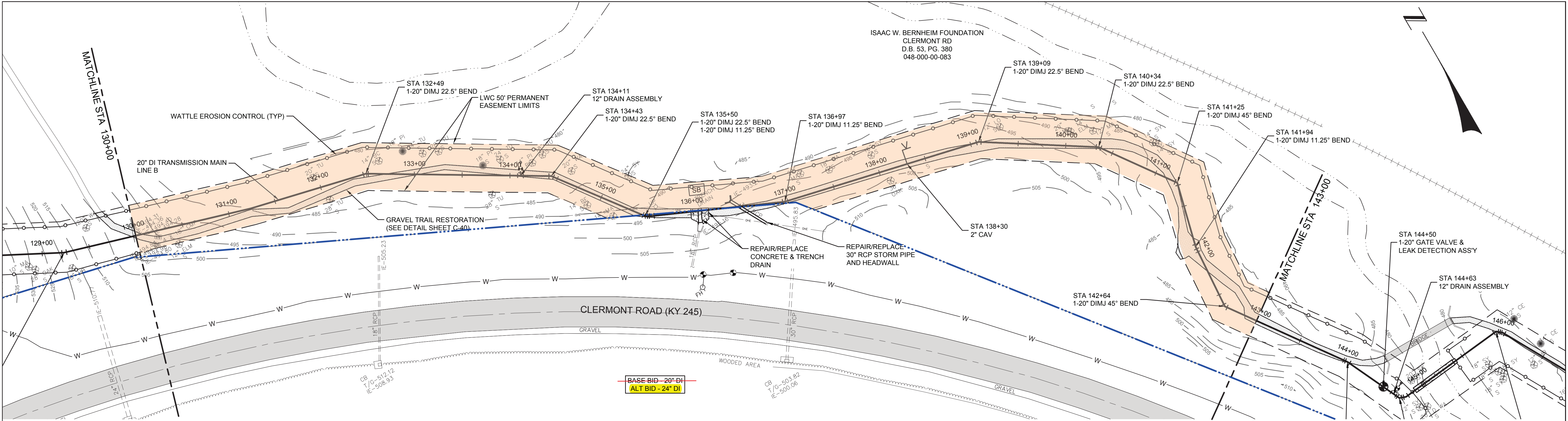


SIGNATURE
DATE

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690 PLAN N. NELSON WATER DISTRICT
HWY. 245 TRANSMISSION MAIN AND MASTER METER
LINE B - STA 116+00 TO 130+00
20" DI TRANSMISSION MAIN

DATE 03/21/24 SCALE 1"=50' MAP NO. ---
DRAWN BY TMA CHECKED BY RLG ENGR. KJB
PROJECT NUMBER 16426 SHEET C-13 of 74
TASK NUMBER ---



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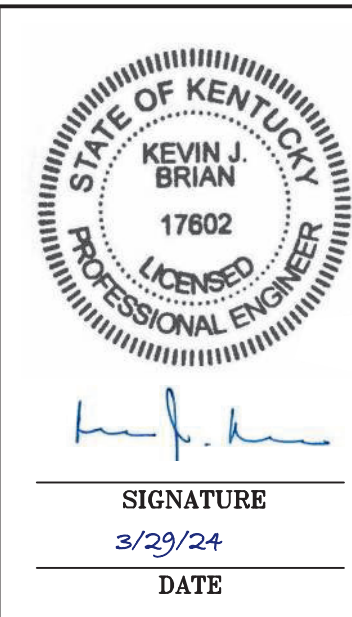
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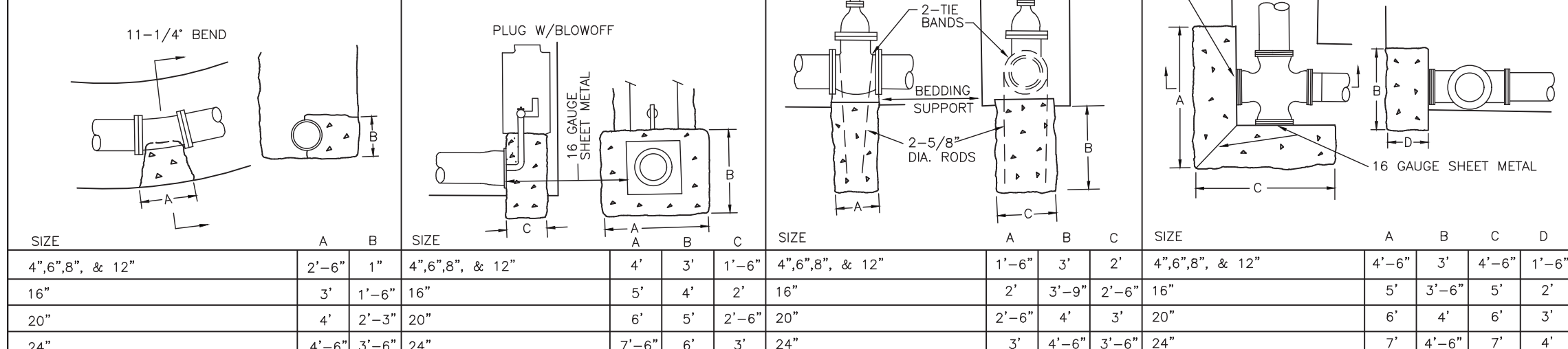
INSPECTION CERTIFICATION
I hereby certify, to the best of my knowledge and belief, that the water main project has been constructed and tested in accordance with the approved plans and specifications.

NAME (PRINT)
NAME (SIGNATURE)
DATE



LOUISVILLE WATER COMPANY 550 S. 3RD STREET • LOUISVILLE, KENTUCKY 40202 (502) 569-3600 SPENCER W. BRUCE, PE - PRESIDENT TIMOTHY KRAUS, P.E. - VICE PRESIDENT/CHIEF ENGINEER		
690 PLAN N. NELSON WATER DISTRICT HWY. 245 TRANSMISSION MAIN AND MASTER METER		
LINE B - STA 130+00 TO 143+00 20" DI TRANSMISSION MAIN		
DATE 03/21/24	SCALE 1"=50'	MAP NO. ---
DRAWN BY TMA	CHECKED BY RLG	ENGR. KJB
PROJECT NUMBER 16426	SHEET	C-14 of 74
TASK NUMBER		

ADDENDUM NO. 2 4/19/24

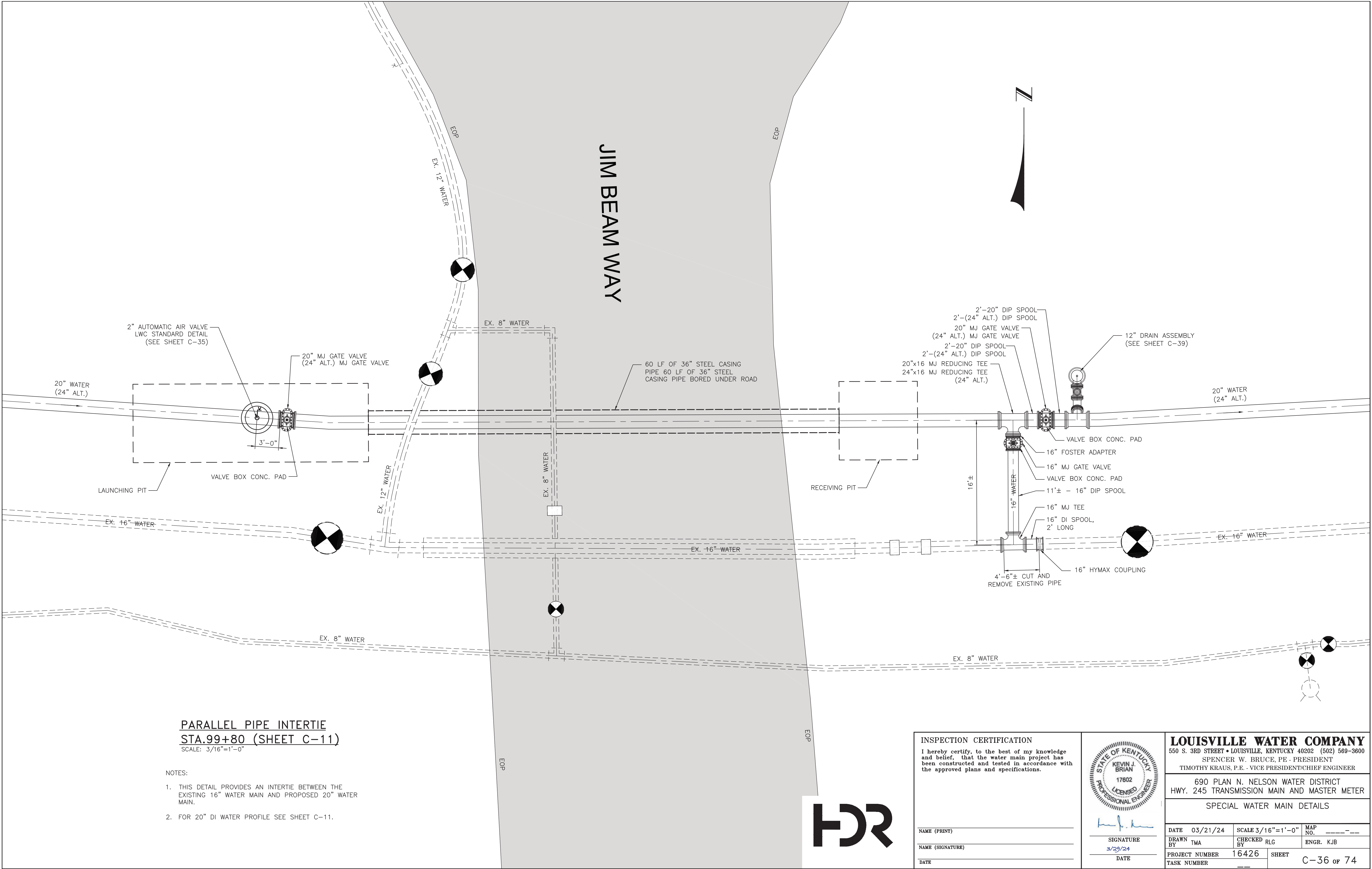


1. COMPLY WITH SECTION 1.3.5, SOIL AND SEDIMENT CONTROL.
2. THIS DETAIL APPLIES ONLY TO BLUE-LINE STREAMS, AS SHOWN ON THE PERTINENT USGS QUADRANGLE MAP.
3. BEST MANAGEMENT CONSTRUCTION PRACTICES MUST BE USED AT ALL TIMES DURING CONSTRUCTION. REGULATE SILT CONTROL. MUST BE PLACED PRIOR TO THE START OF CONSTRUCTION AND MAINTAINED UNTIL VEGETATION IS ESTABLISHED.
4. REVEGETATE ALL DISTURBED GRASSY AREAS ON THE STREAM SLOPES. 500 SODS MAY BE REQUIRED TO SECURE 500' ON THE STREAM BANKS.
5. MAINTAIN AT LEAST 3' OF BACKFILL AT THE STREAM CROSSING FROM THE TOP SIDE OF THE ORIGINAL STREAM BED ELEVATION.
6. OBTAIN APPROVAL FROM THE METROPOLITAN SEWER DISTRICT PRIOR TO THE START OF THE STREAM CROSSING WHEN CONSTRUCTION IS UNDER THEIR JURISDICTION.
7. THRUST BLOCKING SHALL BE CONSTRUCTED AT ALL BENDS.
8. NO MATERIAL MAY BE PLACED IN THE STREAM OR IN THE FLOOD PLAIN OF THE STREAM.
9. CROSSING TRENCHES SHALL BE BACKFILLED AS CLOSELY AS POSSIBLE TO THE ORIGINAL CONTOUR.
10. ALL EXCESS MATERIAL, RESULTING FROM CONSTRUCTION DISPLACEMENT (TRENCH SPILLS) SHALL BE DISPOSED OF OUTSIDE OF FLOOD PLAIN.



SIGNATURE

DATE	03/21/24	SCALE	NONE	MAP NO.	-----
DRAWN BY	TMA	CHECKED BY	RLG	ENGR.	KJB
PROJECT NUMBER	16426		SHEET	C-35 OF 74	
TASK NUMBER					



PARALLEL PIPE INTERTIE
STA.99+80 (SHEET C-11)
SCALE: 3/16"=1'-0"

- NOTES:
1. THIS DETAIL PROVIDES AN INTERTIE BETWEEN THE EXISTING 16" WATER MAIN AND PROPOSED 20" WATER MAIN.
 2. FOR 20" DI WATER PROFILE SEE SHEET C-11.

INSPECTION CERTIFICATION

I hereby certify, to the best of my knowledge and belief, that the water main project has been constructed and tested in accordance with the approved plans and specifications.

NAME (PRINT) _____

NAME (SIGNATURE) _____

DATE _____

STATE OF KENTUCKY
KEVIN J. BRIAN
17602
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
3/29/24
DATE

LOUISVILLE WATER COMPANY
550 S. 3RD STREET • LOUISVILLE, KENTUCKY 40202 (502) 569-3600
SPENCER W. BRUCE, P.E. - PRESIDENT
TIMOTHY KRAUS, P.E. - VICE PRESIDENT/CHIEF ENGINEER

690 PLAN N. NELSON WATER DISTRICT
HWY. 245 TRANSMISSION MAIN AND MASTER METER

SPECIAL WATER MAIN DETAILS

DATE	03/21/24	SCALE	3/16"=1'-0"	MAP NO.	-----
DRAWN BY	TMA	CHECKED BY	RLG	ENGR.	KJB
PROJECT NUMBER	16426	SHEET	C-36 OF 74		
TASK NUMBER	---				