

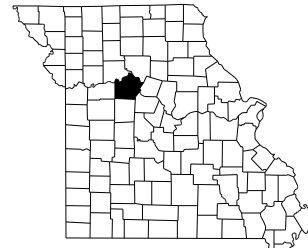
DESIGN DESIGNATION

A.A.D.T. (CR 211) - 2023 = 62
 A.A.D.T. (CR 225) - 2023 = 62
 D.H.V. = 6.5%
 T = 35.5%
 V = 35 M.P.H.
 D = 50%

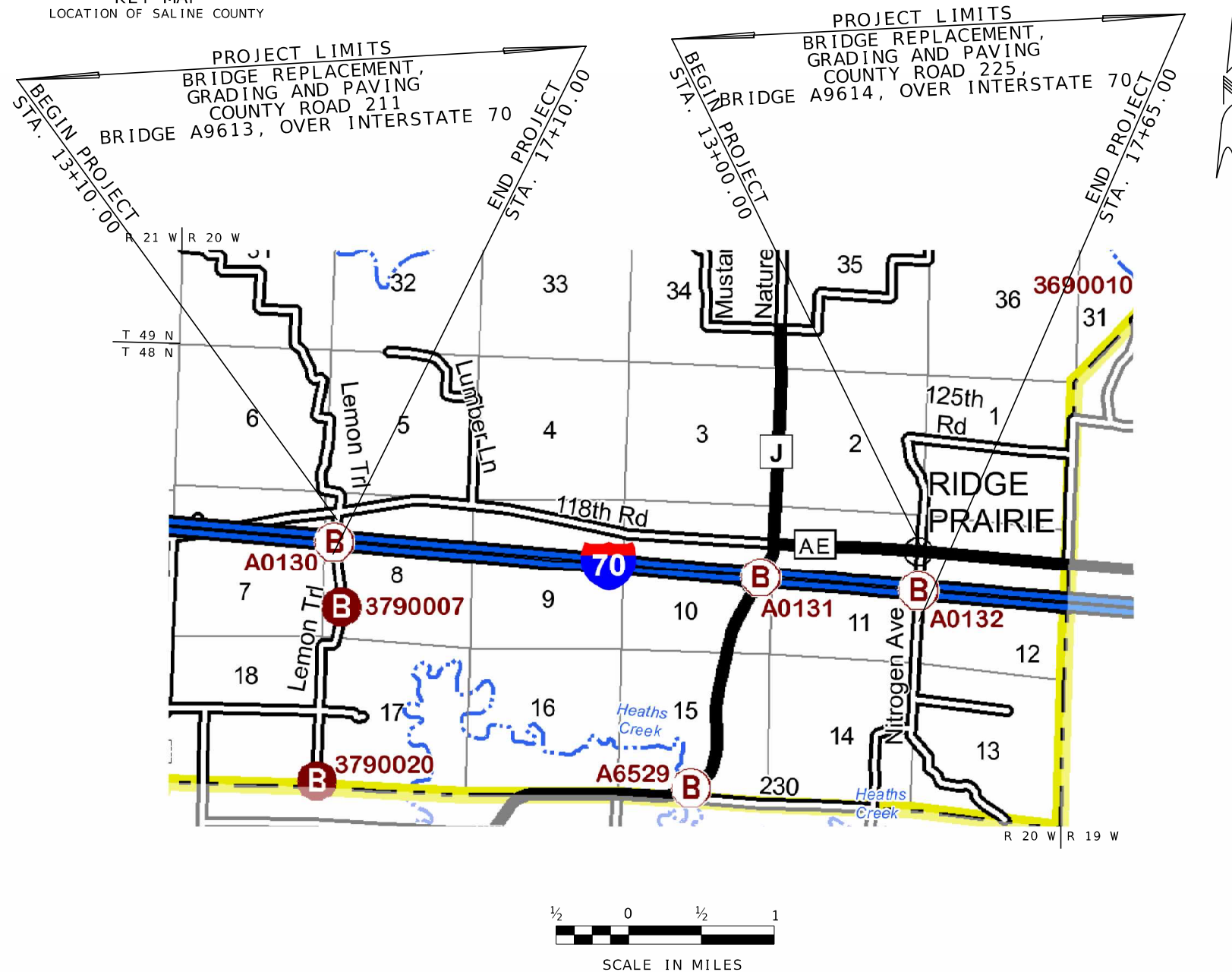
FUNCTIONAL CLASSIFICATION - LOCAL

NO RIGHT OF WAY ACQUISITION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION PLANS FOR PROPOSED STATE HIGHWAY SALINE COUNTY



KEY MAP
 LOCATION OF SALINE COUNTY



THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (3 SHEETS)	2
QUANTITIES (QU) (4 SHEETS)	3
PLAN-PROFILE (PP)	4-9
REFERENCE POINTS (RP)	10
COORDINATE POINTS (CP)	11-12
SPECIAL SHEETS (SS)	13-14
TRAFFIC CONTROL SHEETS (TC)	15-70
EROSION CONTROL SHEETS (EC)	71-74
SIGNING (SN)	75-78
CULVERT SECTIONS (CS)	79
BRIDGE DRAWINGS (B)	
A9613	1-32
A9614	1-32
CROSS SECTIONS (XS)	1-24



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED: 11/4/2024
 ROUTE: I-70 STATE: MO
 DISTRICT: KC SHEET NO.: 1
 COUNTY: SALINE
 JOB NO.: JST0016B
 CONTRACT ID:

PROJECT NO.:
 BRIDGE NO.:

DESCRIPTION	DATE

LENGTH OF PROJECT

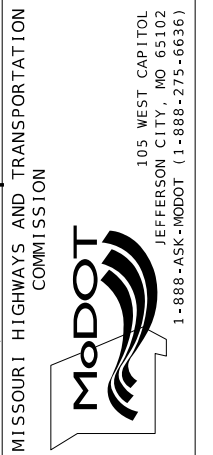
CR 211 BEGIN OF PROJECT	STA. 13+ 10.00
CR 211 END OF PROJECT	STA. 17+ 10.00
APPARENT LENGTH	400.00 FEET
CR 225 BEGIN OF PROJECT	STA. 13+ 00.00
CR 225 END OF PROJECT	STA. 17+ 65.00
APPARENT LENGTH	465.00 FEET

NET LENGTH OF PROJECT	865.00 FEET
STATE LENGTH	0.198 MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0.50 ACRES

**CONVENTIONAL SYMBOLS
 (USED IN PLANS)**

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	-FO-
OVERHEAD CABLE TV	-OTV-	-OTV-
UNDERGROUND CABLE TV	-UTV-	-UTV-
OVERHEAD TELEPHONE	-OT-	-OT-
UNDERGROUND TELEPHONE	-UT-	-UT-
OVERHEAD POWER	-OE-	-OE-
UNDERGROUND POWER	-UE-	-UE-
SANITARY SEWER	-S-	-S-
STORM SEWER	-SS-	-SS-
GAS	-G-	-G-
WATER	-W-	-W-
MANHOLE		
FIRE HYDRANT		
WATER VALVE		
WATER METER		
DROP INLET		
DITCH BLOCK		
GROUND MOUNTED SIGN		
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL		
FENCE		
CHAIN LINK		
WOVEN WIRE		
GATE POST		
BENCHMARK		

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

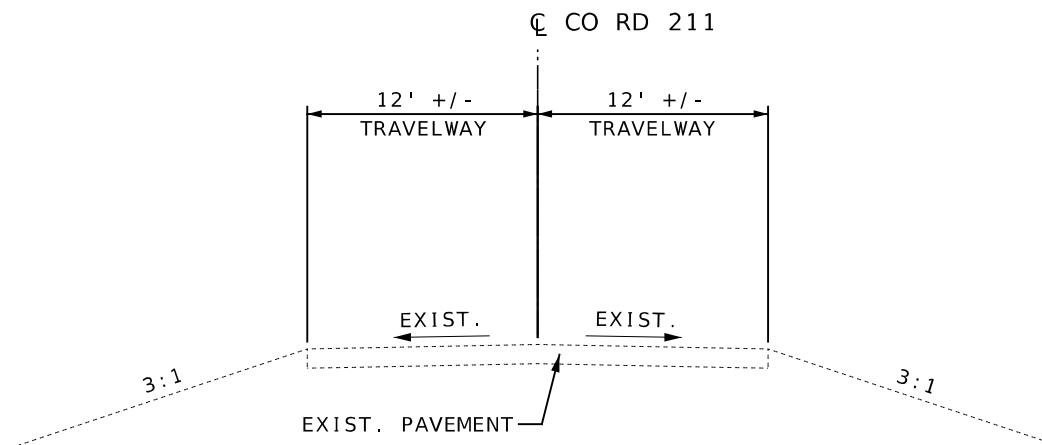


Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 BmC Project No. 171819

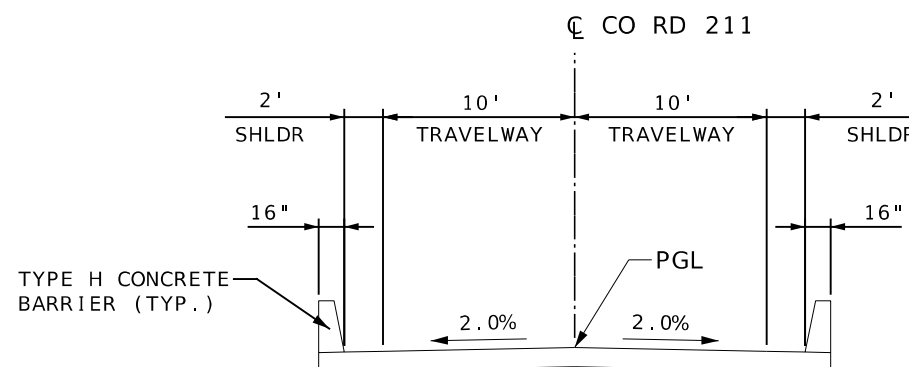
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

NOTES:

1. ANY DAMAGE TO EXISTING ROADWAY DUE TO CONTRACTOR OPERATIONS WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
2. ANY ADDITIONAL EARTHWORK AND GRADING NECESSARY TO THE COMPLETION OF THE PROJECT AND NOT SHOWN IN THE PLANS SHALL BE CONSIDERED INCIDENTAL TO AND COMPLETELY COVERED BY THE OTHER PAY ITEMS IN THE CONTRACT. THERE WILL BE NO DIRECT PAY FOR ANY ADDITIONAL GRADING OPERATIONS NECESSARY TO COMPLETE THE PROJECT.



SECTION ON TANGENT
EXISTING TYPICAL SECTION CO RD 211
STA. 13+10.00 TO STA. 13+89.50
STA. 16+10.50 TO STA. 17+10.00

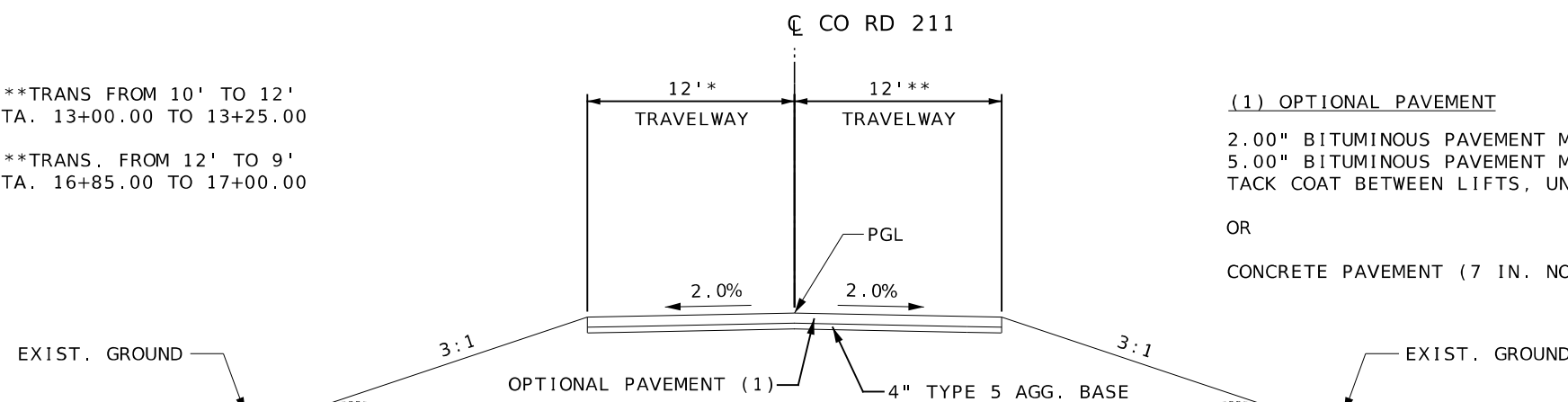


SECTION ON TANGENT
BRIDGE TYPICAL SECTION CO RD 211
STA. 13+89.50 TO STA. 16+10.50
(FOR INFORMATION ONLY; SEE BRIDGE
PLANS FOR CONSTRUCTION DETAIL)

*TRANS. FROM 10' TO 12'
STA. 13+00.00 TO 13+25.00

**TRANS FROM 10' TO 12'
STA. 13+00.00 TO 13+25.00

**TRANS. FROM 12' TO 9'
STA. 16+85.00 TO 17+00.00



SECTION ON TANGENT
ROADWAY TYPICAL SECTION CO RD 211
STA 13+10.00 TO STA 13+89.50
STA 16+10.50 TO 17+10.00

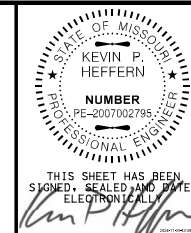
(1) OPTIONAL PAVEMENT

2.00" BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1)
5.00" BITUMINOUS PAVEMENT MIXTURE PG64-22 (BASE)
TACK COAT BETWEEN LIFTS, UNDELUTED = 0.05GAL/S.Y.

OR

CONCRETE PAVEMENT (7 IN. NON-REINFORCED, 15 FT. JOINTS)

TYPICAL SECTIONS
COUNTY ROAD 211
SHEET 1 OF 3



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY

DATE PREPARED
11/4/2024

ROUTE STATE
1-70 MO

DISTRICT SHEET NO.
KC 2

COUNTY
SALINE

JOB NO.
JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

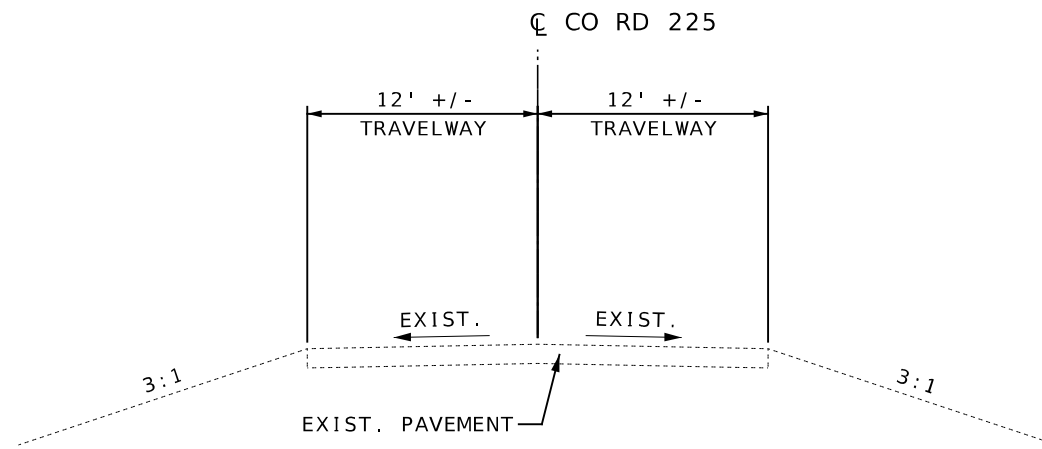
Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165
BMcD Project No. 171819

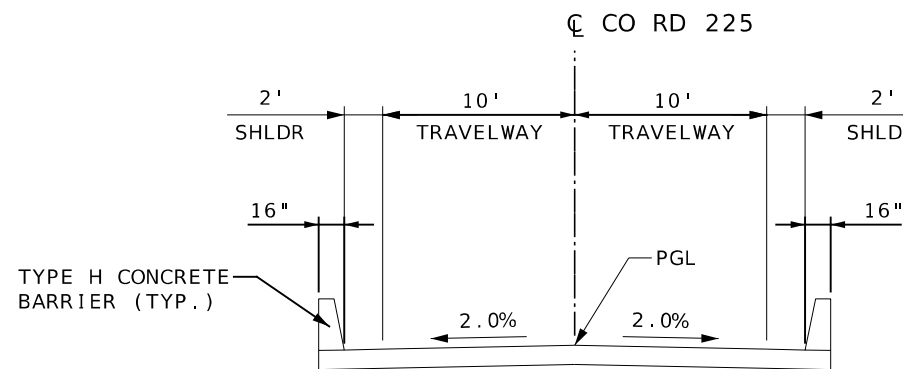
NOTES:

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SECTION ON TANGENT
EXISTING TYPICAL SECTION CO RD 225

STA. 13+00.00 TO STA. 13+89.24
STA. 16+10.24 TO STA. 16+65.00



SECTION ON TANGENT
BRIDGE TYPICAL SECTION CO RD 225

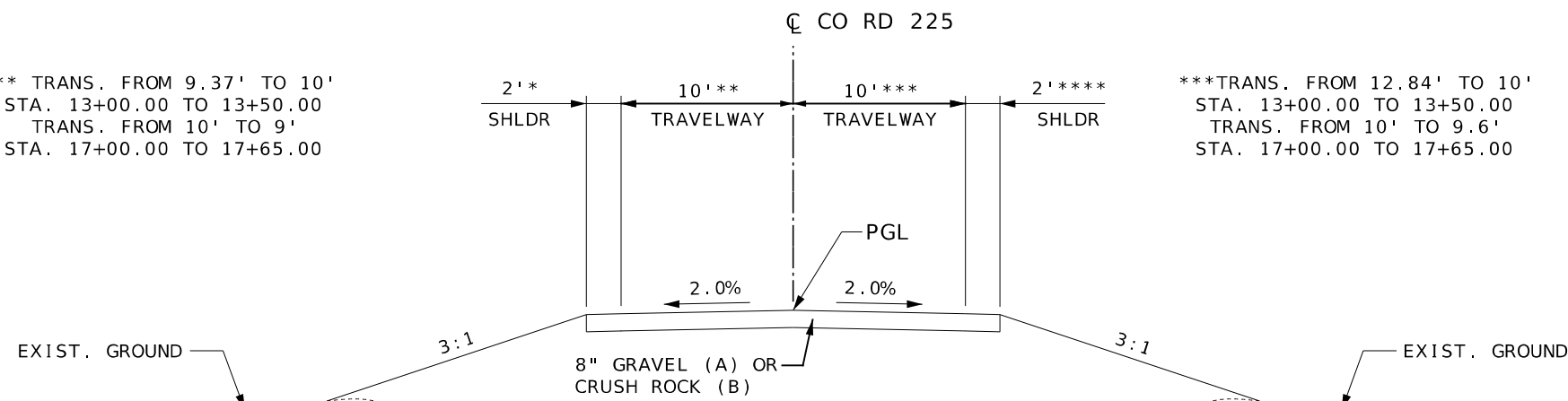
STA. 13+89.24 TO STA. 16+10.24
(FOR INFORMATION ONLY: SEE BRIDGE
PLANS FOR CONSTRUCTION DETAIL)

*TRANS. FROM 0' TO 2'
STA. 13+00.00 TO 13+14.00
TRANS. FROM 2' TO 0'
STA. 17+00.00 TO 17+65.00

** TRANS. FROM 9.37' TO 10'
STA. 13+00.00 TO 13+50.00
TRANS. FROM 10' TO 9'
STA. 17+00.00 TO 17+65.00

***TRANS. FROM 12.84' TO 10'
STA. 13+00.00 TO 13+50.00
TRANS. FROM 10' TO 9.6'
STA. 17+00.00 TO 17+65.00

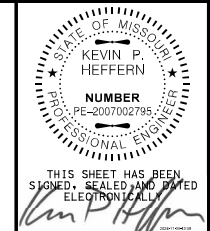
**** TRANS. FROM 0' TO 2'
STA. 13+00.00 TO 13+40.00
TRANS. FROM 10' TO 9.6'
STA. 17+00.00 TO 17+65.00



SECTION ON TANGENT
ROADWAY TYPICAL SECTION CO RD 225

STA. 13+00.00 TO STA. 13+89.24
STA. 16+10.24 TO STA. 17+65.00

TYPICAL SECTIONS
COUNTY ROAD 225
SHEET 2 OF 3



DATE PREPARED 11/4/2024	
ROUTE I-70	STATE MO
DISTRICT KC	SHEET NO. 2
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165
BMcD Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
11/4/2024

ROUTE STATE
I - 70 MO

DISTRICT SHEET NO.
KC 2

COUNTY
SALINE

JOB NO.
JST0016B

CONTRACT ID.

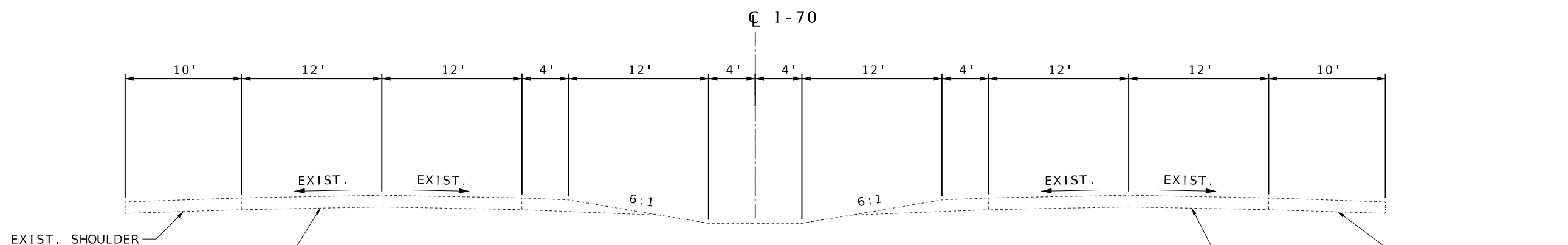
PROJECT NO.

BRIDGE NO.

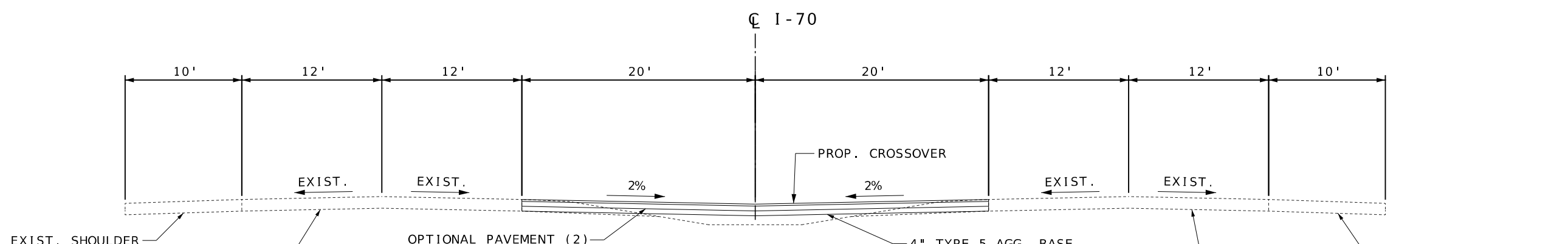
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

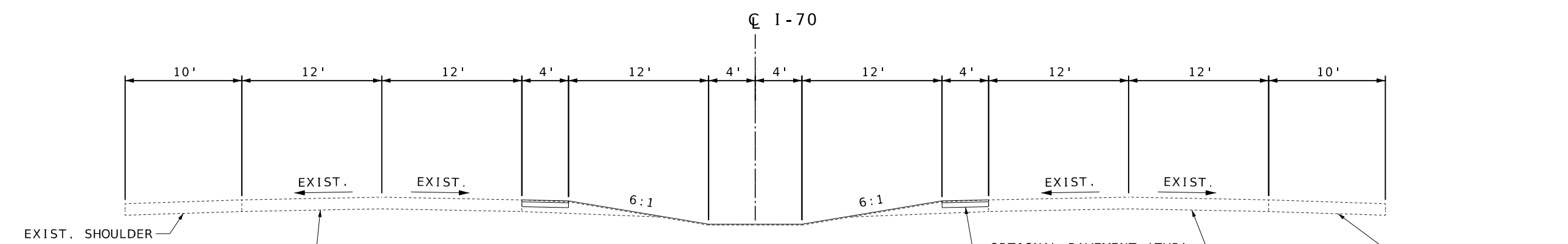
Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BlcD Project No. 171819



SECTION ON TANGENT
EXISTING TYPICAL SECTION I-70
STA. 1000+11.65 TO STA. 1006+40.00
STA. 1012+50.00 TO STA. 1018+78.15
STA. 1213+70.00 TO STA. 1220+00.00
STA. 1224+97.21 TO STA. 1231+27.21



SECTION ON TANGENT
CROSSOVER TYPICAL SECTION I-70
STA. 1000+11.65 TO STA. 1006+40.00
STA. 1012+50.00 TO STA. 1018+78.15
STA. 1213+70.00 TO STA. 1220+00.00
STA. 1224+97.21 TO STA. 1231+27.21



SECTION ON TANGENT
PROPOSED TYPICAL SECTION I-70
STA. 1000+11.65 TO STA. 1006+40.00
STA. 1012+50.00 TO STA. 1018+78.15
STA. 1213+70.00 TO STA. 1220+00.00
STA. 1224+97.21 TO STA. 1231+27.21

(2) OPTIONAL PAVEMENT
2.00" SP125C W/ PG 70-22
2.00" SP125C W/ PG 70-22
4.50" SP190C W/ PG 64-22
OR
CONCRETE PAVEMENT (8" JPCP 13.5' SLAB,
15FT. JOINT SPACING WITH 1 1/4" DOWELS)

TYPICAL SECTIONS
INTERSTATE 70
SHEET 3 OF 3

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MOBILIZATION
1 LUMP SUM

CONTRACTOR FURNISHED SURVEY AND STAKING
1 LUMP SUM

ADDITIONAL MOBILIZATION FOR SEEDING	
LOCATION	QUANTITY (EACH)
PROJECT	2
PAY TOTAL:	2

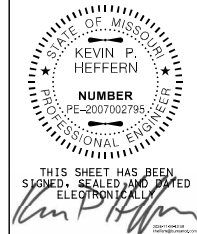
CLEARING AND GRUBBING
1 ACRE

GUARDRAIL							
STA.	STA.	ROUTE	SIDE	MGS GUARDRAIL (LF)	TYPE A END TERMINAL (EA)	MGS END ANCHOR (EA)	SHAPING SLOPES, CL III (100 FT)
1006+35.00	1011+60.00	I-70	RT	462.5	1	1	4.1
1009+40.00	1014+52.50	I-70	LT	450	1	1	4.1
1009+89.56	1010+77.06	I-70	RT	75		1	1
1010+22.70	1012+72.70	I-70	LT	187.5	1	1	2.5
1218+37.50	1223+50.00	I-70	RT	450	1	1	2.0
1221+20.00	1226+32.50	I-70	LT	450	1	1	2.0
1221+75.94	1222+63.44	I-70	RT	75		1	0.88
1222+07.79	1222+65.29	I-70	LT	75		1	0.88
TOTAL				2225	5	8	17

PERMANENT PAVEMENT MARKING					
STA.	STA.	ROUTE	WATERBORNE PAINT WITH TYPE P BEADS		REMARKS
			4" SOLID YELLOW (LF)		
13+00.00	17+10.00	CR211	820		
TOTAL			820.00		

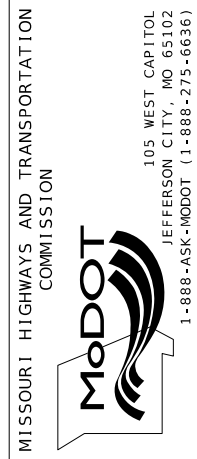
SEEDING AND MULCHING					
BEGIN STA.	END STA.	ROUTE	SEEDING - COOL SEASON GRASSES		MULCHING (ACRE)
			(ACRE)		
13+00.00	13+69.50	CR 211	0.02		0.02
16+30.50	17+10.00	CR 211	0.04		0.04
13+00.00	13+69.25	CR 225	0.02		0.02
16+30.25	17+65.00	CR 225	0.04		0.04
1001+11.65	1006+40.00	I-70	0.46		0.46
1012+50.00	1018+78.15	I-70	0.46		0.46
1213+71.85	1220+00.00	I-70	0.46		0.46
1225+00.00	1231+28.15	I-70	0.46		0.46
TOTAL			2		2

REMOVAL OF IMPROVEMENTS							
STA.	STA.	ROUTE	OFFSET	DESCRIPTION	QUANTITY	UNITS	REMARKS
1009+52.10	1011+49.90	I-70	CT	CULVERT AND FES	1	EA	
1009+89.56	1010+77.06	I-70	RT	BARRIER TRANSITION AND BARRIER	1	EA	
1010+22.70	1012+72.70	I-70	LT	BARRIER TRANSITION AND BARRIER	200	LF	
1221+75.94	1222+63.44	I-70	RT	BARRIER TRANSITION AND BARRIER	1	EA	
1222+07.79	1222+65.29	I-70	LT	BARRIER TRANSITION AND BARRIER	1	EA	
1009+65.82	1011+34.71	I-70	CT	BULLNOSE GUARDRAIL SYSTEM	170	LF	
1221+38.20	1223+36.10	I-70	CT	CULVERT AND FES	1	EA	
1221+51.28	1223+20.16	I-70	CT	BULLNOSE GUARDRAIL SYSTEM	170	LF	
13+74.58	14+07.65	CR 211	LT	GUARDRAIL	28	LF	
13+47.27	13+99.75	CR 211	RT	GUARDRAIL	54	LF	
15+99.96	16+53.15	CR 211	LT	GUARDRAIL	54	LF	
15+99.71	16+27.17	CR 211	RT	GUARDRAIL	28	LF	
13+81.81		CR 211	LT	DROP INLET AND OUTFALL	1	EA	
13+83.02		CR 211	RT	DROP INLET AND OUTFALL	1	EA	
16+16.17		CR 211	RT	DROP INLET AND OUTFALL	1	EA	
16+17.42		CR 211	LT	DROP INLET AND OUTFALL	1	EA	
14+02.31		CR 211	LT	SIGN	1	EA	
14+02.31		CR 211	RT	SIGN	1	EA	
15+98.13		CR 211	LT	SIGN	1	EA	
15+98.13		CR 211	RT	SIGN	1	EA	
13+59.46	13+99.00	CR 225	RT	GUARDRAIL	40	LF	
13+73.06	13+99.00	CR 225	LT	GUARDRAIL	28	LF	
15+98.96	16+53.29	CR 225	RT	GUARDRAIL	28	LF	
15+99.93	16+40.98	CR 225	LT	GUARDRAIL	40	LF	
13+81.90		CR 225	LT	DROP INLET AND OUTFALL	1	EA	
13+82.29		CR 225	RT	DROP INLET AND OUTFALL	1	EA	
16+17.10		CR 225	RT	DROP INLET AND OUTFALL	1	EA	
16+17.81		CR 225	LT	DROP INLET AND OUTFALL	1	EA	
14+01.60		CR 225	RT	SIGN	1	EA	
14+02.65		CR 225	LT	SIGN	1	EA	
15+97.14		CR 225	RT	SIGN	1	EA	
15+98.29		CR 225	LT	SIGN	1	EA	
13+00.00		CR 225	CT	SAW CUT	20	LF	
17+10.00		CR 225	CT	SAW CUT	21	LF	
1000+00.00	1009+39.75	I-70	CT	MEDIAN CABLE	940	LF	
1011+58.30	1019+00.00	I-70	CT	MEDIAN CABLE	742	LF	
1213+71.85	1221+28.30	I-70	CT	MEDIAN CABLE	757	LF	
1223+43.36	1231+28.15	I-70	CT	MEDIAN CABLE	757	LF	
1000+12.05	1006+40.00	I-70	LT	SAW CUT	628	LF	
1000+12.05	1006+40.00	I-70	RT	SAW CUT	628	LF	
1012+50.00	1018+75.15	I-70	LT	SAW CUT	628	LF	
1012+50.00	1018+75.15	I-70	RT	SAW CUT	628	LF	
1213+71.85	1220+00.00	I-70	LT	SAW CUT	628	LF	
1213+71.85	1220+00.00	I-70	RT	SAW CUT	628	LF	
1225+00.00	1231+28.15	I-70	LT	SAW CUT	628	LF	
1225+00.00	1231+28.15	I-70	RT	SAW CUT	628	LF	
1001+12.04	1006+40.00	I-70	CT	CROSSOVER PAVEMENT	1837.00	SY	
1012+50.00	1018+78.15	I-70	CT	CROSSOVER PAVEMENT	1837.00	SY	
1213+74.85	1220+00.00	I-70	CT	CROSSOVER PAVEMENT	1837.00	SY	
1225+00.00	1231+28.15	I-70	CT	CROSSOVER PAVEMENT	1837.00	SY	
TOTAL					LUMP SUM		



DATE PREPARED
11/4/2024
ROUTE
I-70
STATE
MO
DISTRICT
KC
SHEET NO.
3
COUNTY
SALINE
JOB NO.
JST0016B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.
A0130

DATE	DESCRIPTION



Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 171819

SUMMARY OF QUANTITIES
SHEET 1 OF 4

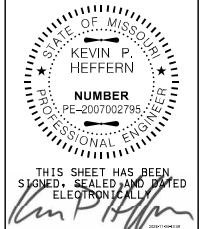
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LINEAR GRADING, CLASS 1							
STA.	STA.	LOCATION	DESCRIPTION	QUANTITY LF/100	ESTIMATED VOLUME, CY		REMARKS
					EXCAVATION	EMBANKMENT	
1220+00.10	1213+71.60	1-70	CLASS 1	6.3	488	104	CR 211 WEST CROSSOVER
1224+84.00	1231+27.80	1-70	CLASS 1	6.3	386	86	CR 211 EAST CROSSOVER
1000+12.50	1006+40.20	1-70	CLASS 1	6.3	436	123	CR 225 WEST CROSSOVER
1012+49.90	1018+77.90	1-70	CLASS 1	6.3	340	75	CR 225 EAST CROSSOVER
TOTAL				25.2			

LINEAR GRADING, CLASS 2							
STA.	STA.	LOCATION	DESCRIPTION	QUANTITY LF/100	ESTIMATED VOLUME, CY		NOTE
					EXCAVATION	EMBANKMENT	
13+00.00	13+89.50	CR 211	NORTH	0.9	67.4	1	
16+10.50	17+10.00	CR 211	SOUTH	1	80.5	2	
13+00.00	13+89.24	CR 255	NORTH	0.9	44	1	
16+10.24	17+65.00	CR 255	SOUTH	1.6	86	1	
1010+30.00	1011+25.00	1-70	NORTH	1			DRAINAGE DITCH
1009+90.00	1010+85.00	1-70	SOUTH	1			DRAINAGE DITCH
1221+75.00	1222+75.00	1-70	NORTH	1			DRAINAGE DITCH
1221+75.00	1222+75.00	1-70	SOUTH	1			DRAINAGE DITCH
TOTAL				8.4			

MEDIAN GUARD CABLE 3-STRAND						
STA.	STA.	ROUTE	SIDE	ANCHOR ASSEMBLY	MEDIAN GUARD CABLE 3 - STRAND	REMARKS
				(EA)	(LF)	
	999+73.5	1-70	MED	1		ANCHOR TO EAST
	1000+26.5	1-70	MED	1		ANCHOR TO WEST
	1018+75.5	1-70	MED	1		ANCHOR TO EAST
	1019+26.5	1-70	MED	1		ANCHOR TO WEST
	1213+46	1-70	MED	1		ANCHOR TO EAST
	1213+98	1-70	MED	1		ANCHOR TO WEST
	1231+02	1-70	MED	1		ANCHOR TO EAST
	1231+54	1-70	MED	1		ANCHOR TO WEST
1000+00.00	1009+13.5	1-70	MED		914	
1011+59.30	1019+00	1-70	MED		741	
1213+71.85	1221+28.30	1-70	MED		757	
1224+43.36	1231+28.15	1-70	MED		785	
TOTAL				8	3197	

DRAINAGE						
STA.	STA.	LOCATION	12 IN. PIPE GROUP A	12 IN GROUP A END SECTION	CLASS 3 EXCAVATION	
			(LF)	(EA)	(CY)	
1001+50	1005+50	1-70	400	2	150	
1013+50	1017+50	1-70	400	2	150	
1215+00	1219+00	1-70	400	2	150	
1226+00	1230+00	1-70	400	2	150	
TOTAL			1600	8	600	



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 11/4/2024

ROUTE 1-70 STATE MO

DISTRICT KC SHEET NO. 3

COUNTY SALINE

JOB NO. JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A0132

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

MoDOT

9400 Ward Parkway Kansas City, Missouri 64114 816-333-9400

Certificate of Authority No. : 000165

BMcD Project No. 171819

BURNS & MCDONNELL

SUMMARY OF QUANTITIES SHEET 2 OF 4

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

BASE AND PAVEMENT							
STA.	STA.	ROUTE	OPTIONAL PAVEMENT		GRAVEL (A) OR CRUSHED STONE (B) (SY)	TYPE 5 AGG. BASE (4") (SY)	REMARKS
			OPTIONAL PAVEMENT 1 (SY)	OPTIONAL PAVEMENT 2 (SY)			
1001+11.65	1006+40.00	I-70		1837		1837	CROSSOVER 1
1012+50.00	1018+78.15	I-70		1837		1837	CROSSOVER 2
13+00.00	13+69.50	CR 211	180			180	CR 211
16+30.50	17+10.00	CR 211	208			208	CR 211
1213+71.85	1220+00.00	I-70		1837		1837	CROSSOVER 3
1225+00.00	1231+28.15	I-70		1837		1837	CROSSOVER 4
13+00.00	13+69.25	CR 225			180		CR 225
16+30.25	17+65.00	CR 225			335		CR 225
		TOTAL	388	7348	515	7736	

TEMPORARY EROSION CONTROL							
BEGIN STA.	END STA.	ROUTE	SIDE	SILT FENCE	ROCK DITCH CHECK	ALTERNATE DITCH CHECK	SEDIMENT REMOVAL
				L.F.	L.F.	L.F.	(CUYD)
13+00.00	13+70.50	CR 211	LT	80			0.8
13+73.50	14+37.00	CR 211	LT	66			0.7
13+00.00	13+70.50	CR 211	RT	78			0.8
13+73.50	14+37.00	CR 211	RT	78			0.8
15+63.00	16+26.50	CR 211	LT	80			0.8
16+26.50	17+10.00	CR 211	LT	83			0.8
15+63.00	16+26.50	CR 211	RT	63			0.6
16+26.50	17+10.00	CR 211	RT	85			0.9
13+72.00		CR 211	LT		10		1
13+72.00		CR 211	RT		10		1
16+28.00		CR 211	LT		10		1
16+28.00		CR 211	RT		10		1
1000+10	1006+50.00	I-70	MED			30	3
1012+50.00	1018+78.15	I-70	MED			30	3
1009+10.00	1010+00.00	I-70	LT			20	2
1009+10.00	1009+90.00	I-70	RT			20	2
13+00.00	13+70.00	CR 225	LT	90			0.9
13+73.00	14+33.00	CR 225	LT	60			0.6
13+00.00	13+70.00	CR 225	RT	85			0.9
13+73.00	14+33.00	CR 225	RT	80			0.8
15+67.00	16+26.00	CR 225	LT	70			0.7
15+67.00	16+16.00	CR 225	RT	70			0.7
16+29.00	17+65.00	CR 225	LT	150			1.5
16+20.00	17+65.00	CR 225	RT	165			1.7
1213+71.85	1220+00.00	I-70	MED			30	3
1225+00.00	1231+28.15	I-70	MED			30	3
1223+00.00	1224+00.00	I-70	LT			20	2
1223+00.00	1224+00.00	I-70	RT			20	2
		TOTAL		1383	40	200	38

PERMANENT EROSION CONTROL									
STA.	OFFSET (FT)	BRIDGE	ROUTE	SIDE	TYPE 2 ROCK BLANKET (2' THICK) (CUYD)		TYPE 1 ROCK DITCH LINER (8" THICK) (CUYD)		PERMANENT EROSION CONTROL GEOTEXTILE (SQYD)
					FURNISH	PLACE	FURNISH	PLACE	
13+72.50	12.18		CR 211	LT			2.2	2.2	13.8
13+72.50	12.18		CR 211	RT			1.9	1.9	11.6
16+27.50	12.18		CR 211	LT			2.6	2.6	16.0
16+27.50	12.18		CR 211	RT			2.6	2.6	16.0
13+72.25	12.18		CR 225	LT			2.2	2.2	13.8
13+72.25	12.18		CR 225	RT			1.9	1.9	11.6
16+27.24	12.18		CR 225	LT			2.2	2.2	13.8
16+27.24	12.18		CR 225	RT			2.9	2.9	17.9
		A9613		LT	129.6	129.6			234
		A9613		RT	137.4	137.4			247
		A9614		LT	129.6	129.6			234
		A9614		RT	142.6	142.6			255.7
			TOTAL		540	540	19	19	1085

SUMMARY OF QUANTITIES
SHEET 3 OF 4



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY

DATE PREPARED
11/4/2024

ROUTE STATE
I-70 MO
DISTRICT SHEET NO.
KC 3

COUNTY

SALINE

JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

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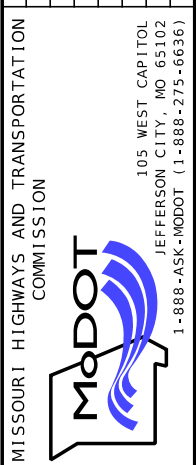
DATE

DESCRIPTION

DATE

DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



BURNS & McDONNELL Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 171819

NOTES:

- 1. ALL BEARINGS SHOWN ARE MODIFIED STATE PLAN BEARING, WESTERN ZONE.
- 2. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
- 3. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES.
- 4. UTILITIES PLOTTED ARE APPROXIMATE ONLY AND IT IS POSSIBLE THERE MAY BE OTHERS WHICH ARE NOT SHOWN ON PLANS.



THIS SHEET HAS BEEN SIGNED, SEALED AND PLOTTED ELECTRONICALLY
Kevin P. Heffern

DATE PREPARED
11/4/2024

ROUTE I - 70	STATE MO
DISTRICT KC	SHEET NO. 4

COUNTY
SALINE

JOB NO.
JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

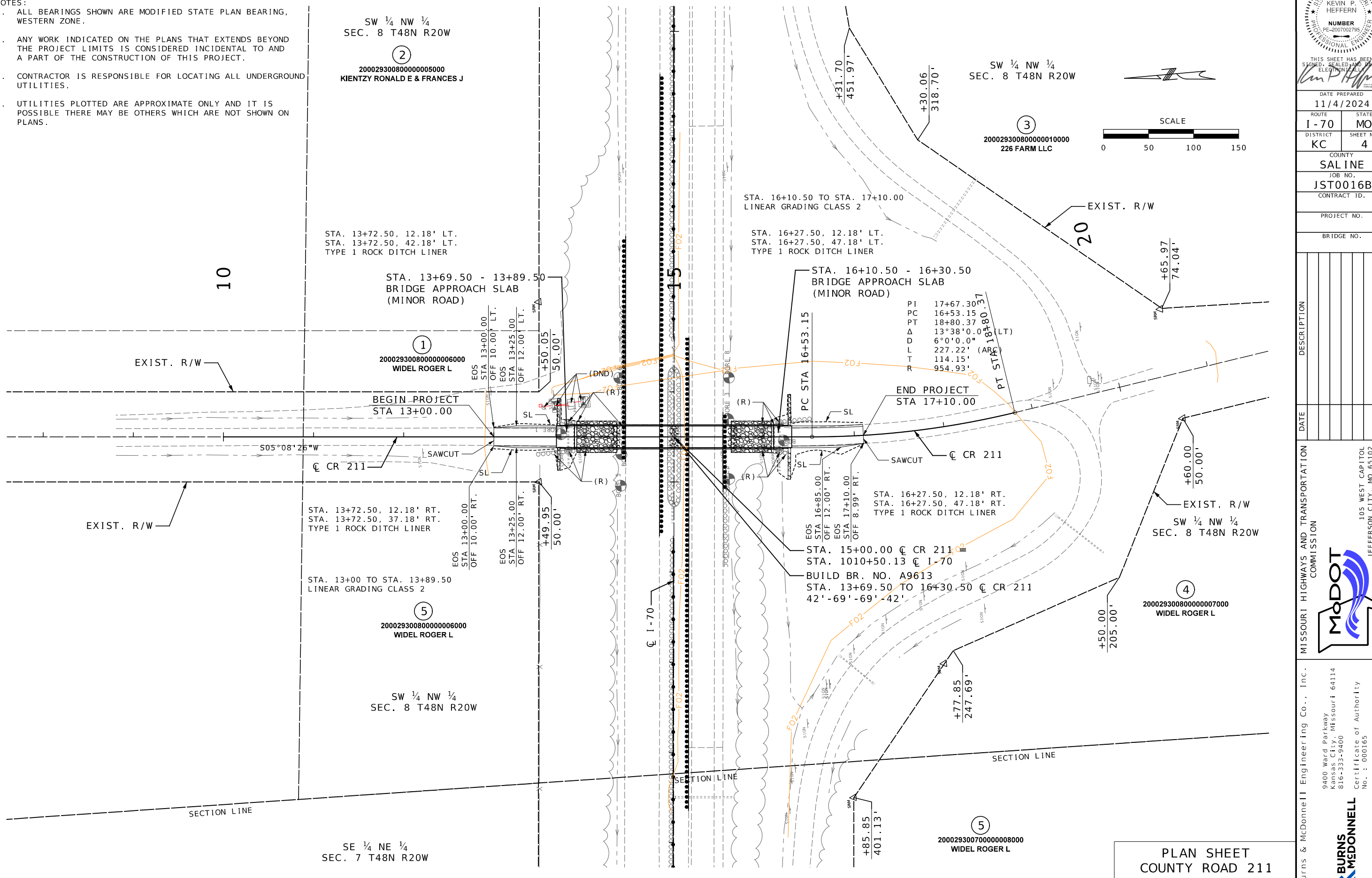
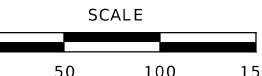
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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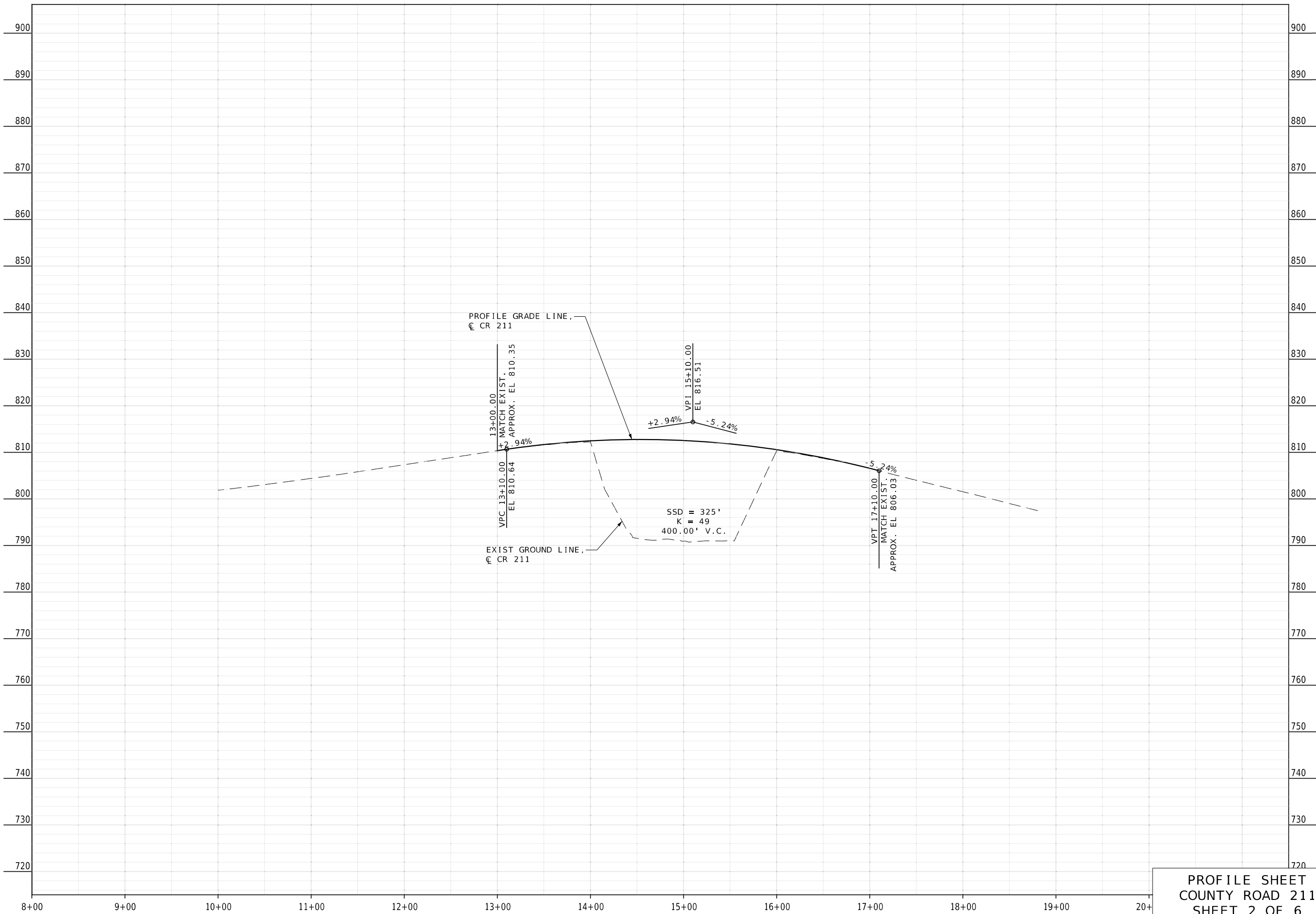
105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165
BMcD Project No. 171819



PLAN SHEET
COUNTY ROAD 211
SHEET 1 OF 6



PROFILE SHEET
COUNTY ROAD 211
SHEET 2 OF 6



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY

DATE PREPARED
11/4/2024

ROUTE 1-70	STATE MO
DISTRICT KC	SHEET NO. 5

COUNTY
SALINE

JOB NO.
JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

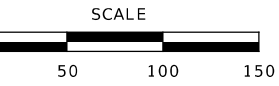
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WIDEL ROGER L
SE 1/4 NE 1/4
SEC. 7 T48N R20W

STA. 1000+00.00, 1.0' LT.
STA. 1009+39.75, 1.0' LT.
MEDIAN GUARD CABLE 3-STRAND
GUARD CABLE ANCHOR ASSEMBLIES
STA. 999+75.50, TERMINAL ANCHOR (TO EAST)
STA. 1000+26.50, TERMINAL ANCHOR (TO WEST)
SEE STANDARD 606.41 FOR
INTERMEDIATE TERMINAL DETAILS

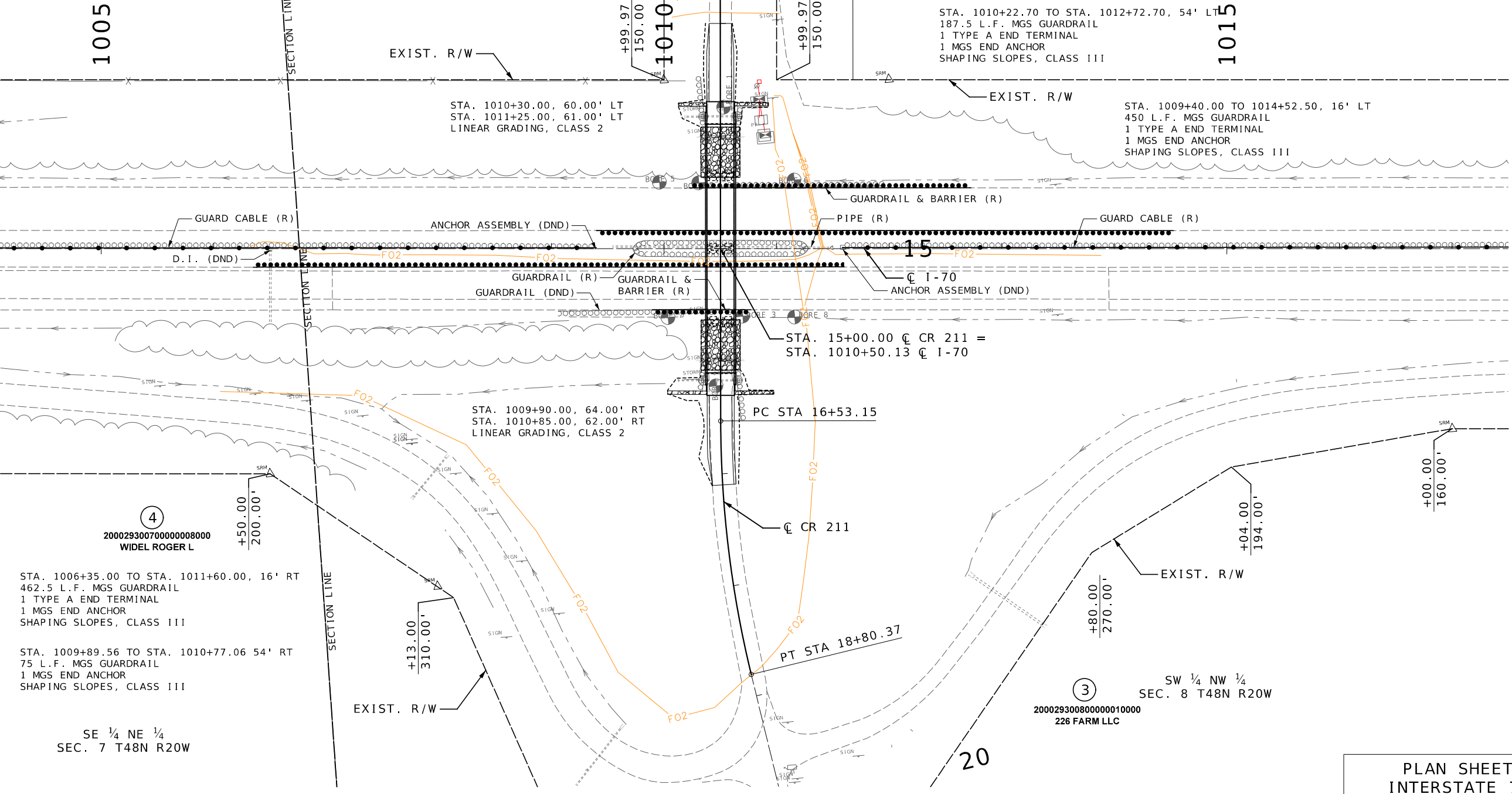
SW 1/4 NW 1/4
SEC. 8 T48N R20W
⑤
200029300800000006000
WIDEL ROGER L

②
200029300800000005000
KIENTZY RONALD E & FRANCES J

STA. 1011+58.30, 1.0' LT.
STA. 1019+00.00, 1.0' LT.
MEDIAN GUARD CABLE 3-STRAND
GUARD CABLE ANCHOR ASSEMBLIES
STA. 1018+75.50, TERMINAL ANCHOR (TO EAST)
STA. 1019+26.50, TERMINAL ANCHOR (TO WEST)
SEE STANDARD 606.41 FOR
INTERMEDIATE TERMINAL DETAILS



SW 1/4 NW 1/4
SEC. 8 T48N R20W



1005

1010

①

200029300800000006000
WIDEL ROGER L

1015

④

200029300700000008000
WIDEL ROGER L

STA. 1006+35.00 TO STA. 1011+60.00, 16' RT
462.5 L.F. MGS GUARDRAIL
1 TYPE A END TERMINAL
1 MGS END ANCHOR
SHAPING SLOPES, CLASS III

STA. 1009+89.56 TO STA. 1010+77.06 54' RT
75 L.F. MGS GUARDRAIL
1 MGS END ANCHOR
SHAPING SLOPES, CLASS III

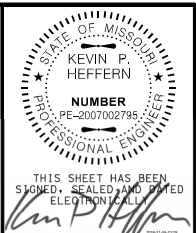
SE 1/4 NE 1/4
SEC. 7 T48N R20W

③

200029300800000010000
226 FARM LLC

SW 1/4 NW 1/4
SEC. 8 T48N R20W

PLAN SHEET
INTERSTATE 70
SHEET 3 OF 6



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED: 11/4/2024

ROUTE	STATE
I-70	MO
DISTRICT	SHEET NO.
KC	6

COUNTY: SALINE
JOB NO.: JST0016B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

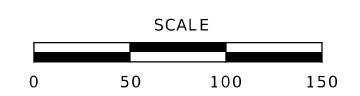
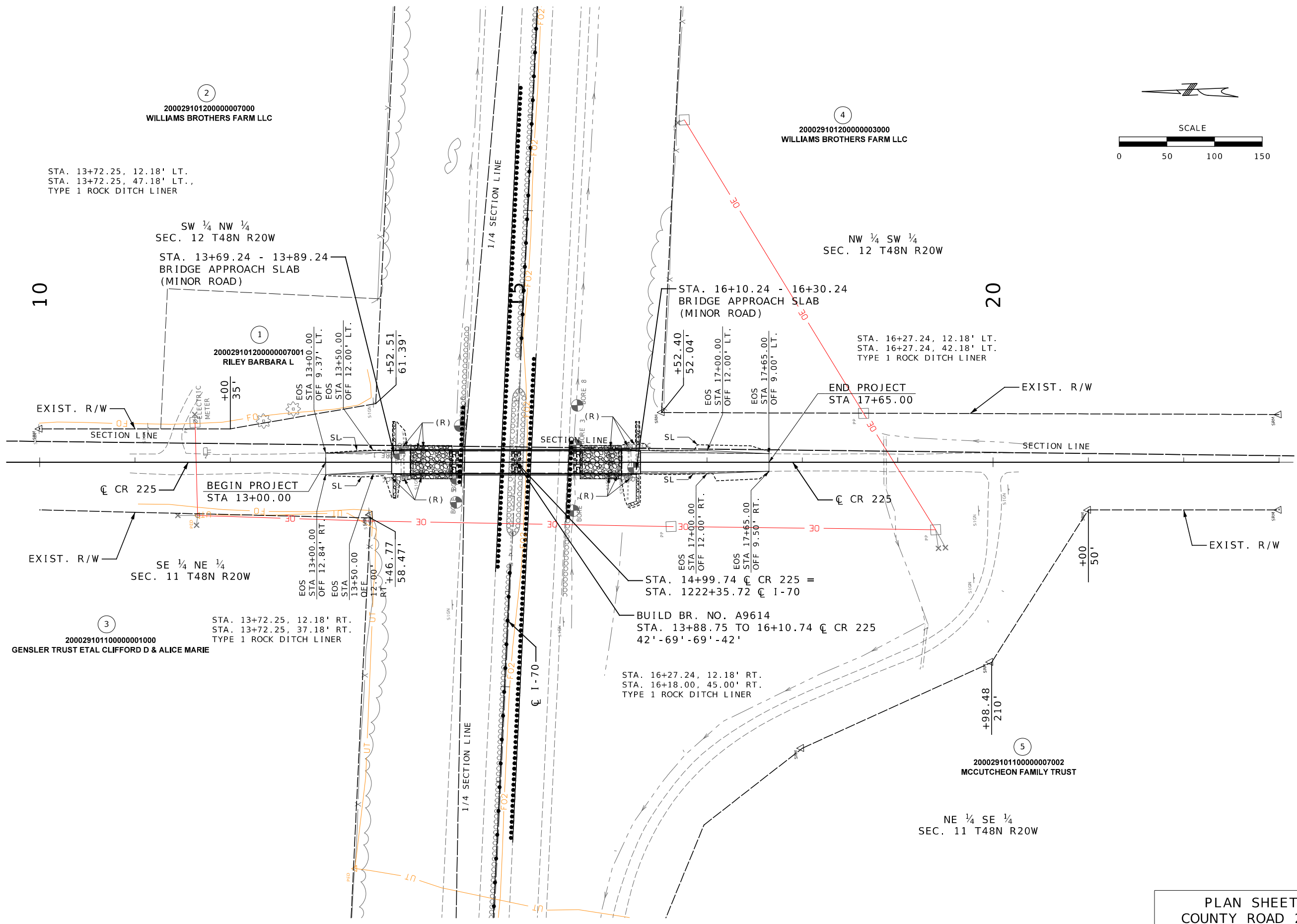
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165
BMcD Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
11/4/2024

ROUTE	STATE
1-70	MO
DISTRICT	SHEET NO.
KC	7

COUNTY
SALINE

JOB NO.
JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

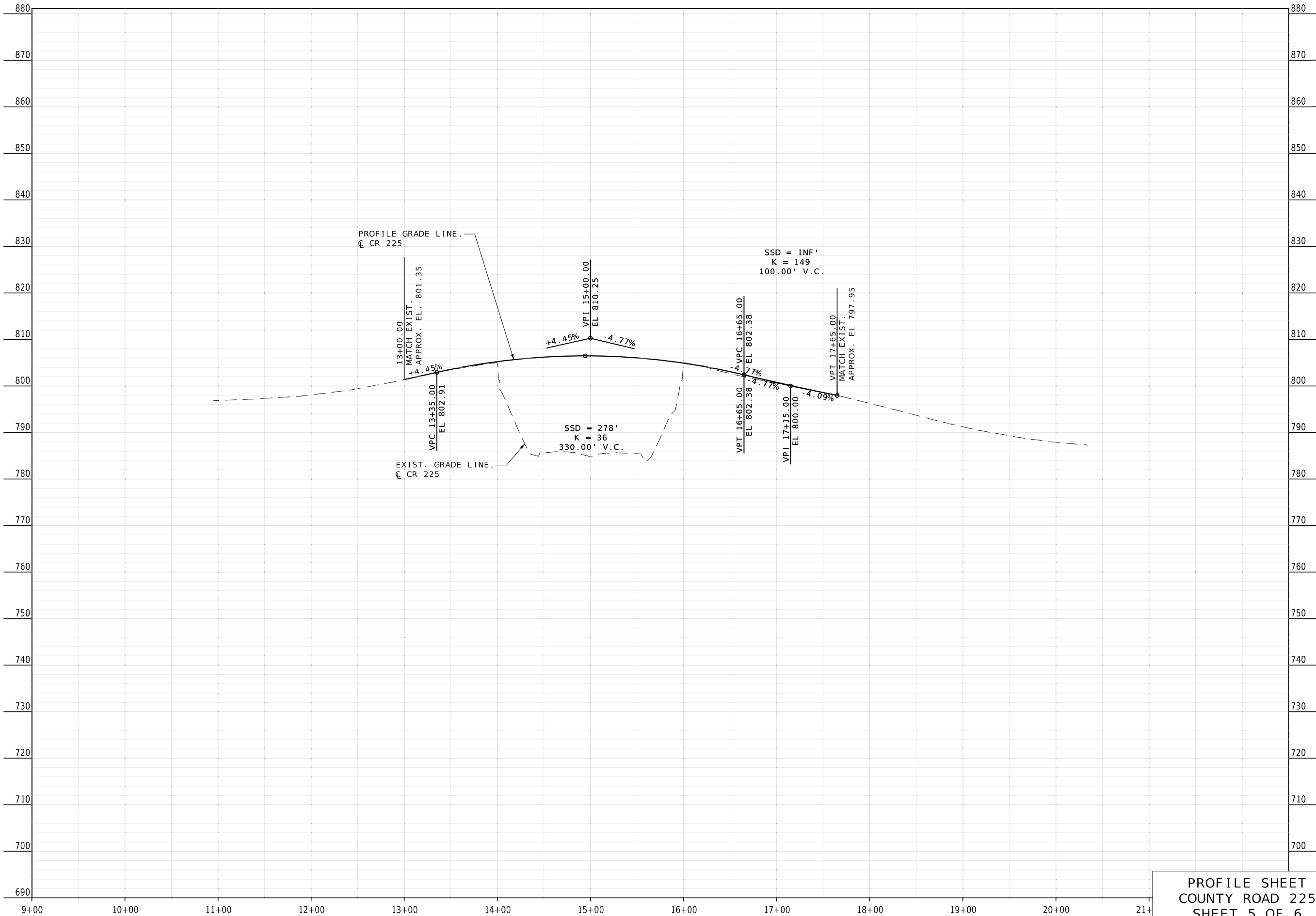
Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

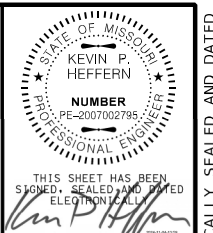
Certificate of Authority
No. : 000165
BMcD Project No. 171819

PLAN SHEET
COUNTY ROAD 225
SHEET 4 OF 6

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



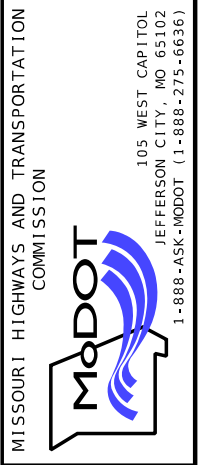
PROFILE SHEET
 COUNTY ROAD 225
 SHEET 5 OF 6



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.
 DATE PREPARED: 11/4/2024
 ROUTE: I-70, STATE: MO, DISTRICT: KC, SHEET NO.: 8
 COUNTY: SALINE, JOB NO.: JST0016B, CONTRACT ID.

PROJECT NO.:
 BRIDGE NO.:

DATE	DESCRIPTION



Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway, Kansas City, Missouri 64114, 816-333-9400
 Certificate of Authority No.: 000165
 BMCd Project No.: 171819

<p>CP #100 STA. 10+11.48' N = 1680142.750 E = 516184.050 Z = 801.510</p> <p>STA. 10+11.48' 14.47' LT COUNTY ROAD 211</p> <p>1/2" IRON PIPE EAST OF COUNTY ROAD 211 AND NORTH OF INTERSTATE 70</p>	<p>CP #102 STA. 13+81.28' N = 1679774.029 E = 516155.505 Z = 811.750</p> <p>STA. 13+81.28' 19.08' LT COUNTY ROAD 211</p> <p>1/2" IRON PIPE EAST OF COUNTY ROAD 211 AND NORTH OF INTERSTATE 70</p>	<p>CP #104 STA. 16+05.76' N = 1679550.660 E = 516133.082 Z = 809.950</p> <p>STA. 16+05.76' 16.76' LT COUNTY ROAD 211</p> <p>1/2" IRON PIPE EAST OF COUNTY ROAD 211 AND SOUTH OF INTERSTATE 70</p>	<p>CP #106 STA. 20+37.70' N = 1679125.818 E = 516162.478 Z = 786.840</p> <p>STA. 20+37.70' 20.70' LT COUNTY ROAD 211</p> <p>1/2" IRON PIPE EAST OF COUNTY ROAD 211 AND SOUTH OF 116TH TRAIL</p>				<p>THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY</p> <p>DATE PREPARED 11/4/2024</p> <p>ROUTE STATE 1 - 70 MO</p> <p>DISTRICT SHEET NO. KC 10</p> <p>COUNTY SALINE</p> <p>JOB NO. JST0016B</p> <p>CONTRACT ID.</p> <p>PROJECT NO.</p> <p>BRIDGE NO.</p>
<p>CP #108 STA. 11+15.23' N = 1678129.599 E = 537197.227 Z = 797.240</p> <p>STA. 11+15.23' 25.69' RT COUNTY ROAD 225</p> <p>1/2" IRON PIPE WEST OF COUNTY ROAD 225 AND NORTH OF INTERSTATE 70</p>	<p>CP #109 STA. 13+95.95' N = 1677848.713 E = 537195.305 Z = 804.980</p> <p>STA. 13+95.95' 15.67' RT COUNTY ROAD 225</p> <p>1/2" IRON PIPE WEST OF COUNTY ROAD 225 AND NORTH OF INTERSTATE 70</p>	<p>CP #111 STA. 16+06.66' N = 1677638.210 E = 537185.916 Z = 804.550</p> <p>STA. 16+06.66' 16.10' RT COUNTY ROAD 225</p> <p>1/2" IRON PIPE WEST OF COUNTY ROAD 225 AND SOUTH OF INTERSTATE 70</p>	<p>CP #114 STA. 20+43.48' N = 1677201.987 E = 537162.674 Z = 785.930</p> <p>STA. 20+43.48' 20.78' RT COUNTY ROAD 225</p> <p>1/2" IRON PIPE WEST OF COUNTY ROAD 225 AND SOUTH OF 115TH LANE</p>				<p>DESCRIPTION</p> <p>DATE</p>
							<p>MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION</p> <p>105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-273-6636)</p>
							<p>Burns & McDonnell Engineering Co., Inc.</p> <p>9400 Ward Parkway Kansas City, Missouri 64114 816-333-9400</p> <p>Certificate of Authority No. : 000165</p> <p>BMcD Project No. 171819</p>
						<p>REFERENCE POINTS SHEET 1 OF 1</p>	<p>IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.</p>

ALL PROJECT COORDINATES HAVE BEEN PROJECTED FROM THE MISSOURI STATE PLANE COORDINATE (SPC) SYSTEM OF 1983 USING AN AVERAGE PROJECT PROJECTION (GRID TO GROUND) FACTOR. TO GET BACK TO STATE PLANE COORDINATES MULTIPLY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION" PORTION OF THIS TABLE.

PROJECT COORDINATE INFORMATION
 COORDINATE SYSTEM | MODIFIED STATE PLANE (GROUND)
 HORIZONTAL DATUM | NAD83 (2011)
 VERTICAL DATUM | NAVD 88 GNSS DERIVED
 GEOID MODEL | GEOID 18
 ELEVATIONS DETERMINED BY | GPS/DIFFERENTIAL LEVELS
 PROJECT PROJECTION FACTOR | 1.00002900

REFERENCE CONTROL INFORMATION
 COORDINATE SYSTEM | MO COOR. SYS. 1983
 CONTROL STATION | MODOT MARSHALL VRS STATION
 DESIGNATION | MOM2
 CORS_ID | .
 PID | .
 LATITUDE | N39°07'07.44369"
 LONGITUDE | W-93°12'58.55506"
 NORTHING (M) | 364855.680
 EASTING (M) | 438060.145
 ZONE | 2402 (MO-CENTRAL)
 PROJECT AVERAGE GRID FACTOR | 0.9999710

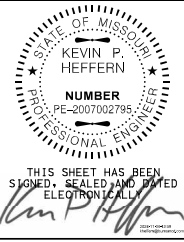
EXAMPLE OF PROJECT COORDINATE TO S.P.C.

PROJECT NORTHING X AVERAGE GRID FACTOR = STATE PLANE NORTHING
 PROJECT EASTING X AVERAGE GRID FACTOR = STATE PLANE EASTING
 EXAMPLE: CONTROL POINT # 1
 N 1133073.4730 X 1.00007385 = N 1133157.1520
 E 1799359.9110 X 1.00007385 = E 1799492.7960

LINEAR UNIT CONVERSION
 1 METER = 3.28083333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND)			DESCRIPTION	GPK POINT ID
				NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)		
PROJECT CONTROL POINTS								
	10+11.48	CR 211	14.47'L	1680142.750	516184.050	801.510	1/2" IRON PIPE	
	13+81.28	CR 211	19.08'L	1679774.029	516155.505	811.750	1/2" IRON PIPE	
	16+05.76	CR 211	16.76'L	1679550.660	516133.082	809.950	1/2" IRON PIPE	
	20+37.70	CR 211	20.70'L	1679125.818	516162.478	786.840	1/2" IRON PIPE	
	11+15.23	CR 225	25.69'R	1678129.599	537197.227	797.240	1/2" IRON PIPE	
	13+95.95	CR 225	15.67'R	1677848.713	537195.305	804.980	1/2" IRON PIPE	
	16+06.66	CR 225	16.10'R	1677638.210	537185.916	804.550	1/2" IRON PIPE	
	20+43.48	CR 225	20.78'R	1677201.987	537162.674	785.930	1/2" IRON PIPE	
ALIGNMENTS								
CR 211								
	13+00.00			1679856.6869	516143.7861		BEGIN POINT	
	16+53.15			1679504.96	516112.14		P.C.	
	17+67.30			1679391.27	516101.92		P.I.	
	18+80.37			1679278.37	516118.77		P.T.	
CL 1-70								
	1000+00.00			1679752.8800	515080.0799		BEGIN POINT	
	1002+79.00			1679727.39	515357.91		P.I.	
	1020+00.00			1679571.3859	517071.8277		END POINT	
CR 211 TEMPORARY CONNECTION 1								
	10+00.00 R1			1679777.67	515094.45		P.C.	
	11+57.73 R1			1679763.26	515251.52		P.I.	
	13+14.74 R1			1679723.28	515404.09		P.R.C.	
	14+73.14 R1			1679683.14	515557.32		P.I.	
	16+30.82 R1			1679668.78	515715.07		P.T.	
CR 211 TEMPORARY CONNECTION 2								
	20+00.00 R1			1679725.92	515089.31		P.C.	
	21+58.50 R1			1679711.45	515247.15		P.I.	
	23+16.28 R1			1679723.18	515405.21		P.R.C.	
	24+74.11 R1			1679734.87	515562.61		P.I.	
	26+31.22 R1			1679720.56	515719.78		P.T.	
CR 211 TEMPORARY CONNECTION 3								
	30+00.00 R1			1679665.27	516322.56		P.C.	
	31+58.11 R1			1679650.93	516480.02		P.I.	
	33+15.51 R1			1679610.90	516637.70		P.T.	
	34+73.62 R1			1679570.87	516790.66		P.I.	
	36+31.02 R1			1679556.54	516948.13		P.T.	
CR 211 TEMPORARY CONNECTION 4								
	40+00.00 R1			1679613.48	516322.56		P.C.	
	41+58.11 R1			1679599.15	516480.02		P.I.	
	43+15.51 R1			1679610.90	516637.70		P.T.	
	44+73.62 R1			1679622.66	516795.38		P.I.	
	46+31.02 R1			1679608.32	516952.84		P.T.	

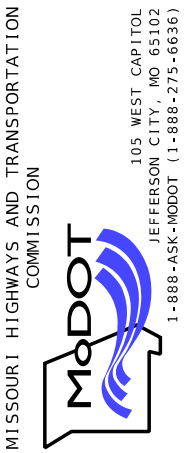


THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED: 11/4/2024

ROUTE: I-70 STATE: MO DISTRICT: KC SHEET NO.: 11 COUNTY: SALINE JOB NO.: JST0016B CONTRACT ID: PROJECT NO.: BRIDGE NO.:

DATE	DESCRIPTION



Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 BMcD Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



COORDINATE POINT LISTING								
SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND)			DESCRIPTION	GPK POINT ID
				NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)		
ALIGNMENTS								
CR 225								
	13+00.00			1677943.9088	537215.0398		BEGIN POINT	
	17+65.00			1677479.3291	537195.2746		END POINT	
CL I-70								
	1210+00.00			1577855.8602	535975.8695		BEGIN POINT	
	1235+00.00			1677630.2659	538465.6701		END POINT	
CR 225 TEMPORARY CONNECTION 1								
	10+00.00	R1		1677848.20	536348.55		P. C.	
	11+58.11	R1		1677833.93	536506.02		P. I.	
	13+15.51	R1		1677793.96	536658.99		P. T.	
	14+73.62	R1		1679683.14	515557.32		P. I.	
	16+31.02	R1		1677739.73	515715.07		P. T.	
CR 225 TEMPORARY CONNECTION 2								
	20+00.00	R1		1677796.41	536343.85		P. C.	
	21+58.11	R1		1677782.14	536501.32		P. I.	
	23+15.51	R1		1677793.96	536658.99		P. R. C.	
	24+73.62	R1		1677805.78	536816.67		P. I.	
	26+31.02	R1		1677791.52	536974.14		P. T.	
CR 225 TEMPORARY CONNECTION 3								
	30+00.00	R1		1677746.40	537472.10		P. C.	
	31+58.11	R1		1677732.13	537629.57		P. I.	
	33+15.51	R1		1677692.16	537782.54		P. T.	
	34+73.62	R1		1677652.19	537935.52		P. I.	
	36+31.02	R1		1677637.93	538092.99		P. T.	
CR 225 TEMPORARY CONNECTION 4								
	40+00.00	R1		1677694.61	537467.40		P. C.	
	41+58.11	R1		1677680.34	537624.87		P. I.	
	43+15.51	R1		1677692.16	537782.54		P. R. C.	
	44+73.62	R1		1677703.98	537940.22		P. I.	
	46+31.02	R1		1677689.71	538097.69		P. T.	



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

Kevin P. Heffern

DATE PREPARED
11/4/2024

ROUTE
I-70

STATE
MO

DISTRICT
KC

SHEET NO.
12

COUNTY
SALINE

JOB NO.
JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.

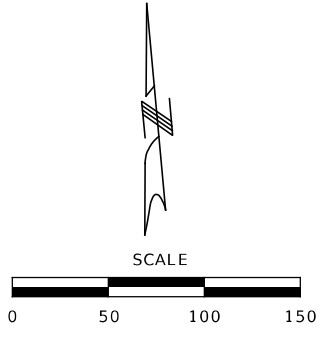
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165

BMcD Project No. 171819

COORDINATE POINTS
SHEET 2 OF 2

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



PC STA 10+00.00
 TEMP CONNECT 1 = 1000
 STA. 1001+12.04, 26' LT.
 I-70

TEMP CONN 1-1		TEMP CONN 2-1	
PI	11+57.73	PI	24+74.11
PC	10+00.00	PC	23+16.28
PT	13+14.74	PT	26+31.22
Δ	9°26'29.2" (RT)	Δ	9°26'50.9" (RT)
D	2°59'59.2"	D	2°59'59.3"
L	314.74' (ARC)	L	314.94' (ARC)
T	157.73'	T	157.83'
R	1,910.00'	R	1,910.00'

PC STA 20+00.00
 TEMP CONNECT 2 = 1005
 STA. 1001+11.65, 26' RT.
 I-70

TEMP CONN 1-2		TEMP CONN 2-2	
PI	14+73.14	PI	21+58.50
PC	13+14.74	PC	20+00.00
PT	16+30.82	PT	23+16.28
Δ	9°28'54.2" (LT)	Δ	9°29'15.9" (LT)
D	2°59'59.2"	D	2°59'59.2"
L	316.08' (ARC)	L	316.28' (ARC)
T	158.40'	T	158.50'
R	1,910.00'	R	1,910.00'

END STA 26+31.22
 TEMP CONNECT 1 = 1010
 STA. 1006+40.00, 26' LT.
 I-70

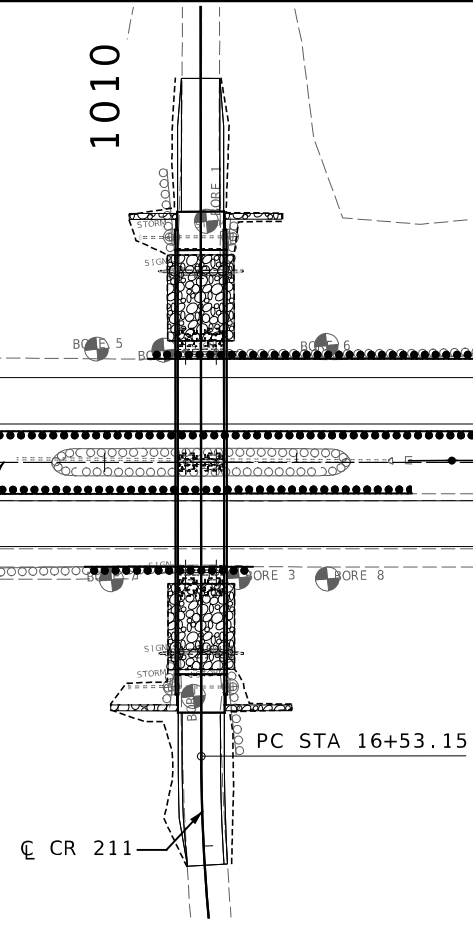
PC STA 20+00.00
 TEMP CONNECT 2 = 1015
 STA. 1001+11.65, 26' RT.
 I-70

STA. 1001+50.00 TO 1005+50.00
 INSTALL 12" X 400' L.F. GR. A PIPE & FES

TEMP. CONN 3-1		TEMP. CONN 4-1	
PI	31+58.11	PI	41+58.11
PC	30+00.00	PC	40+00.00
PT	33+15.51	PT	43+15.51
Δ	9°27'52.5" (RT)	Δ	9°27'52.5" (LT)
D	2°59'59.2"	D	2°59'59.2"
L	315.51' (ARC)	L	315.51' (ARC)
T	158.11'	T	158.11'
R	1,910.00'	R	1,910.00'

END STA 16+30.82
 TEMP CONNECT 1 = 1020
 STA. 1006+40.00, 26' RT.
 I-70

1010

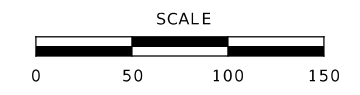


PC STA 40+00.00
 TEMP CONNECT 4 = 1015
 STA. 1012+50.00, 26' LT.
 I-70

TEMP. CONN 3-2		TEMP. CONN 4-2	
PI	34+73.62	PI	44+73.62
PC	33+15.51	PC	43+15.51
PT	36+31.02	PT	46+31.02
Δ	9°27'52.7" (LT)	Δ	9°27'52.5" (RT)
D	2°59'59.3"	D	2°59'59.3"
L	315.51' (ARC)	L	315.51' (ARC)
T	158.11'	T	158.11'
R	1,910.00'	R	1,910.00'

PT STA 36+31.02
 TEMP CONNECT 3 = 1020
 STA. 1018+78.15, 26' LT.
 I-70

STA. 1013+50.00 TO 1017+50.00
 INSTALL 12" X 400' L.F. GR. A PIPE & FES



SPECIAL SHEET
 COUNTY ROAD 211
 CROSSOVER DETAIL
 SHEET 1 OF 2

STATE OF MISSOURI
 KEVIN P. HEFFERN
 NUMBER PE-2007002795
 PROFESSIONAL ENGINEER
 THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY
 DATE PREPARED 11/4/2024

ROUTE	STATE
I-70	MO
DISTRICT	SHEET NO.
KC	13

COUNTY
 SALINE
 JOB NO.
 JST0016B
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

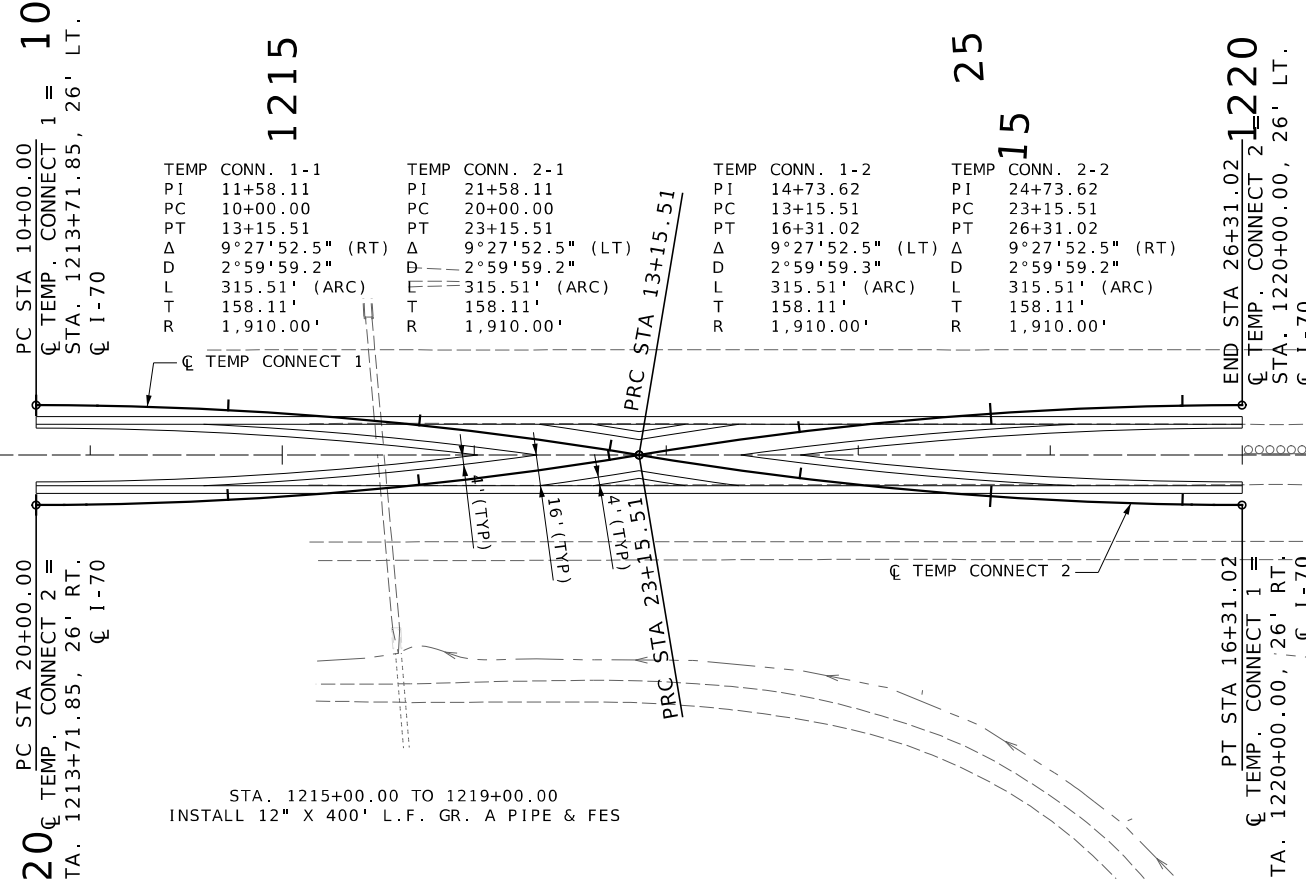
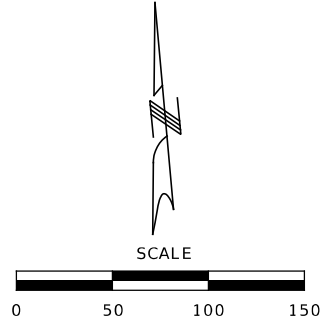
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

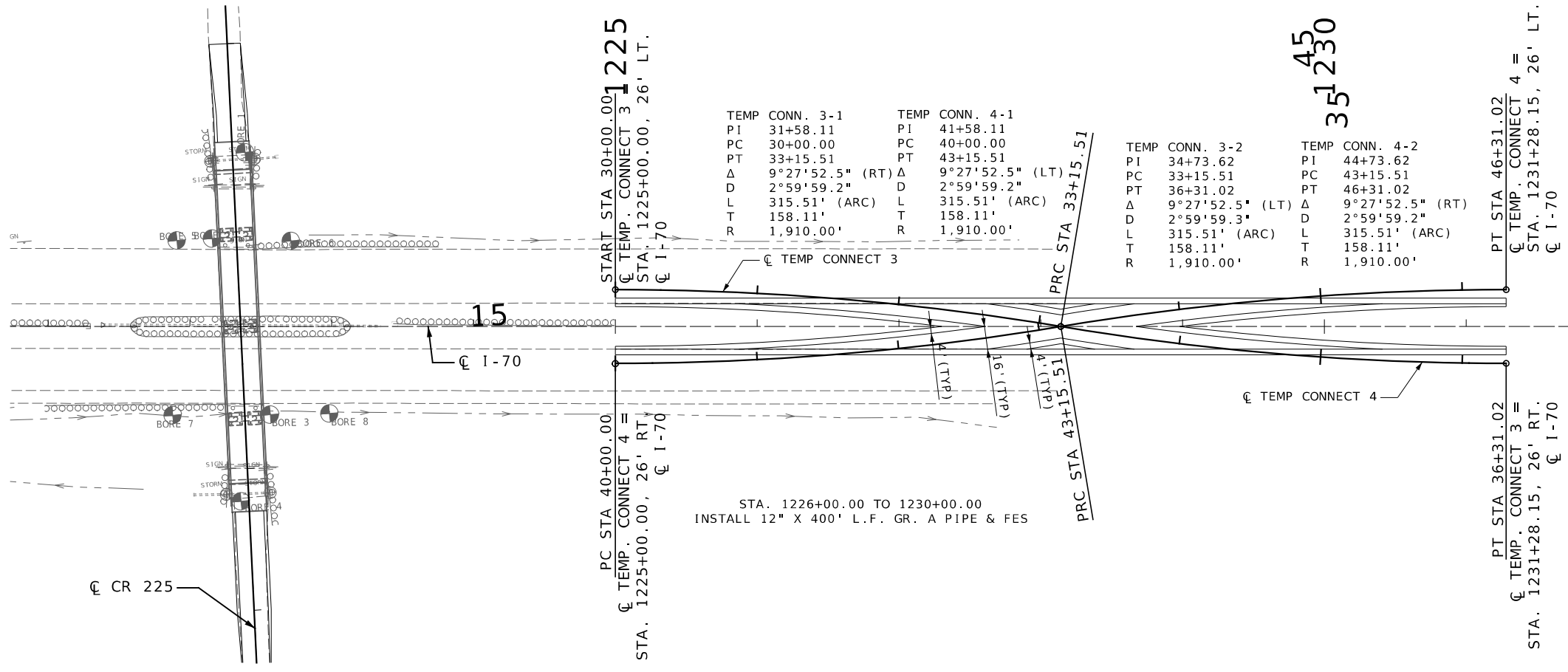
Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 BmCd Project No. 171819

SPECIAL SHEET
 COUNTY ROAD 211
 CROSSOVER DETAIL
 SHEET 1 OF 2

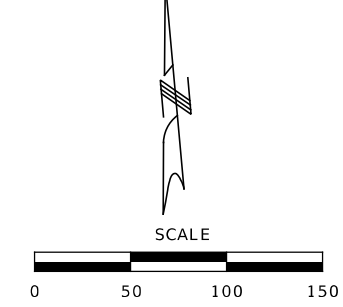
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



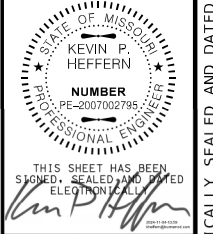
TEMP CONN. 1-1	TEMP CONN. 2-1	TEMP CONN. 1-2	TEMP CONN. 2-2
PI 11+58.11	PI 21+58.11	PI 14+73.62	PI 24+73.62
PC 10+00.00	PC 20+00.00	PC 13+15.51	PC 23+15.51
PT 13+15.51	PT 23+15.51	PT 16+31.02	PT 26+31.02
Δ 9°27'52.5" (RT)	Δ 9°27'52.5" (LT)	Δ 9°27'52.5" (LT)	Δ 9°27'52.5" (RT)
D 2°59'59.2"	D 2°59'59.2"	D 2°59'59.3"	D 2°59'59.2"
L 315.51' (ARC)	L 315.51' (ARC)	L 315.51' (ARC)	L 315.51' (ARC)
T 158.11'	T 158.11'	T 158.11'	T 158.11'
R 1,910.00'	R 1,910.00'	R 1,910.00'	R 1,910.00'



TEMP CONN. 3-1	TEMP CONN. 4-1	TEMP CONN. 3-2	TEMP CONN. 4-2
PI 31+58.11	PI 41+58.11	PI 34+73.62	PI 44+73.62
PC 30+00.00	PC 40+00.00	PC 33+15.51	PC 43+15.51
PT 33+15.51	PT 43+15.51	PT 36+31.02	PT 46+31.02
Δ 9°27'52.5" (RT)	Δ 9°27'52.5" (LT)	Δ 9°27'52.5" (LT)	Δ 9°27'52.5" (RT)
D 2°59'59.2"	D 2°59'59.2"	D 2°59'59.3"	D 2°59'59.2"
L 315.51' (ARC)	L 315.51' (ARC)	L 315.51' (ARC)	L 315.51' (ARC)
T 158.11'	T 158.11'	T 158.11'	T 158.11'
R 1,910.00'	R 1,910.00'	R 1,910.00'	R 1,910.00'



SPECIAL SHEET
 COUNTY ROAD 225
 CROSSOVER DETAIL
 SHEET 2 OF 2



THIS SHEET HAS BEEN
 SIGNED, SEALED AND DATED
 ELECTRONICALLY
 DATE PREPARED
 11/4/2024
 ROUTE 1-70 STATE MO
 DISTRICT KC SHEET NO. 14

COUNTY
 SALINE
 JOB NO.
 JST0016B
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION




 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 BmCD Project No. 171819

SPECIAL SHEET
 COUNTY ROAD 225
 CROSSOVER DETAIL
 SHEET 2 OF 2

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

1000

- LEGEND**
-  CONSTRUCTION AREA
 -  REMOVAL AREA
 -  TRAFFIC FLOW ARROWS

1005

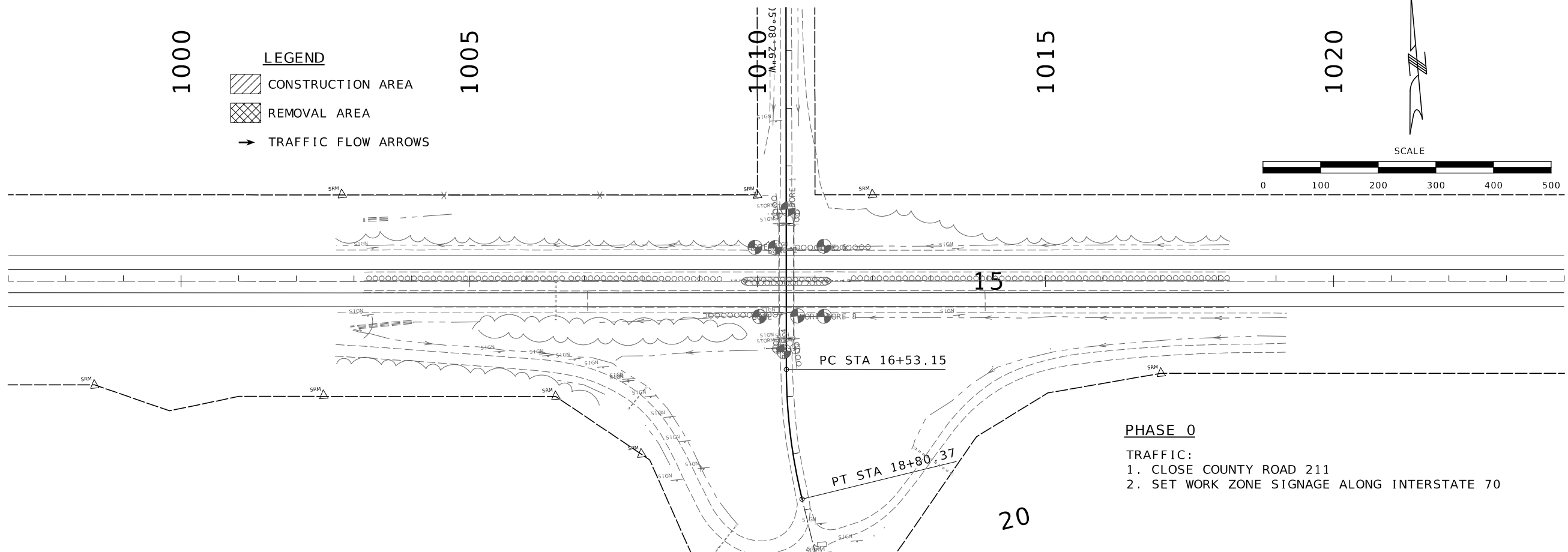
1010

1015

1020



SCALE






PHASE 0

- TRAFFIC:**
1. CLOSE COUNTY ROAD 211
 2. SET WORK ZONE SIGNAGE ALONG INTERSTATE 70

20

1000

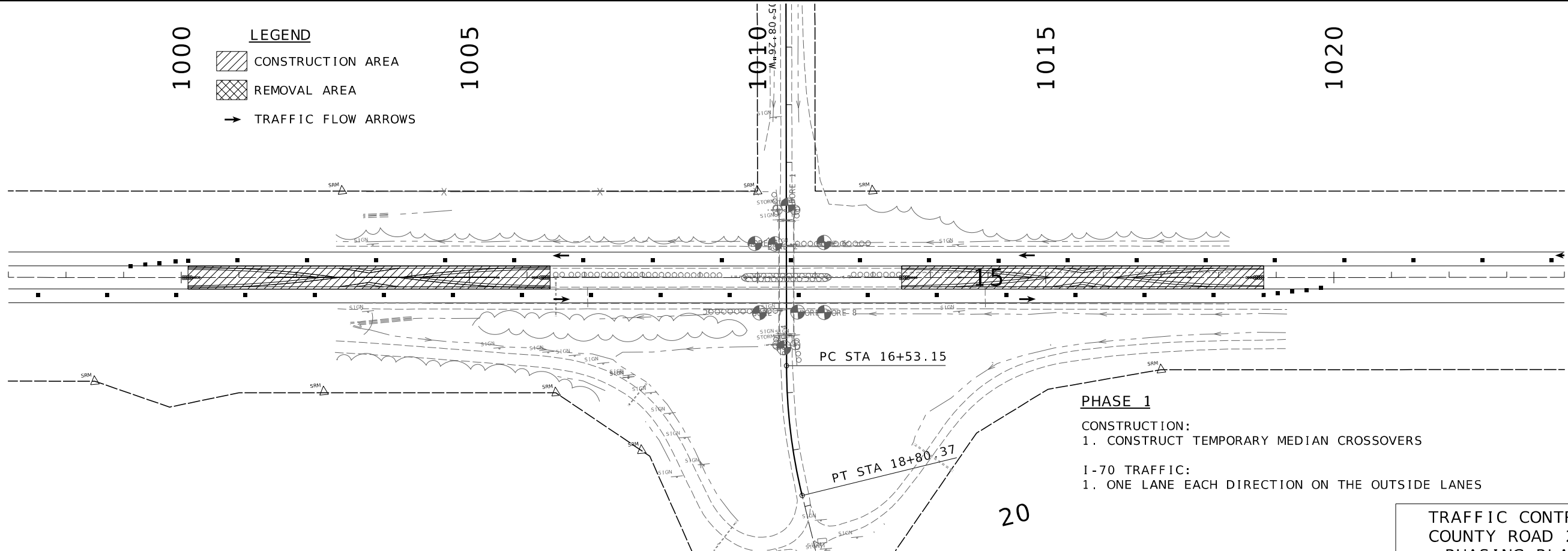
- LEGEND**
-  CONSTRUCTION AREA
 -  REMOVAL AREA
 -  TRAFFIC FLOW ARROWS

1005

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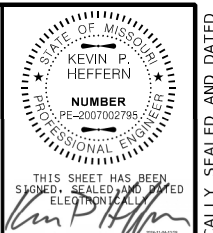


PHASE 1

- CONSTRUCTION:**
1. CONSTRUCT TEMPORARY MEDIAN CROSSOVERS
- I-70 TRAFFIC:**
1. ONE LANE EACH DIRECTION ON THE OUTSIDE LANES

20

**TRAFFIC CONTROL
COUNTY ROAD 211
PHASING PLAN
SHEET 1 OF 56**



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 11/4/2024

ROUTE	STATE
I-70	MO
DISTRICT	SHEET NO.
KC	15

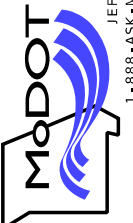
COUNTY: SALINE
JOB NO.: JST0016B
CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION




105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165
BMcD Project No. 171819



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1000

LEGEND

CONSTRUCTION AREA

REMOVAL AREA

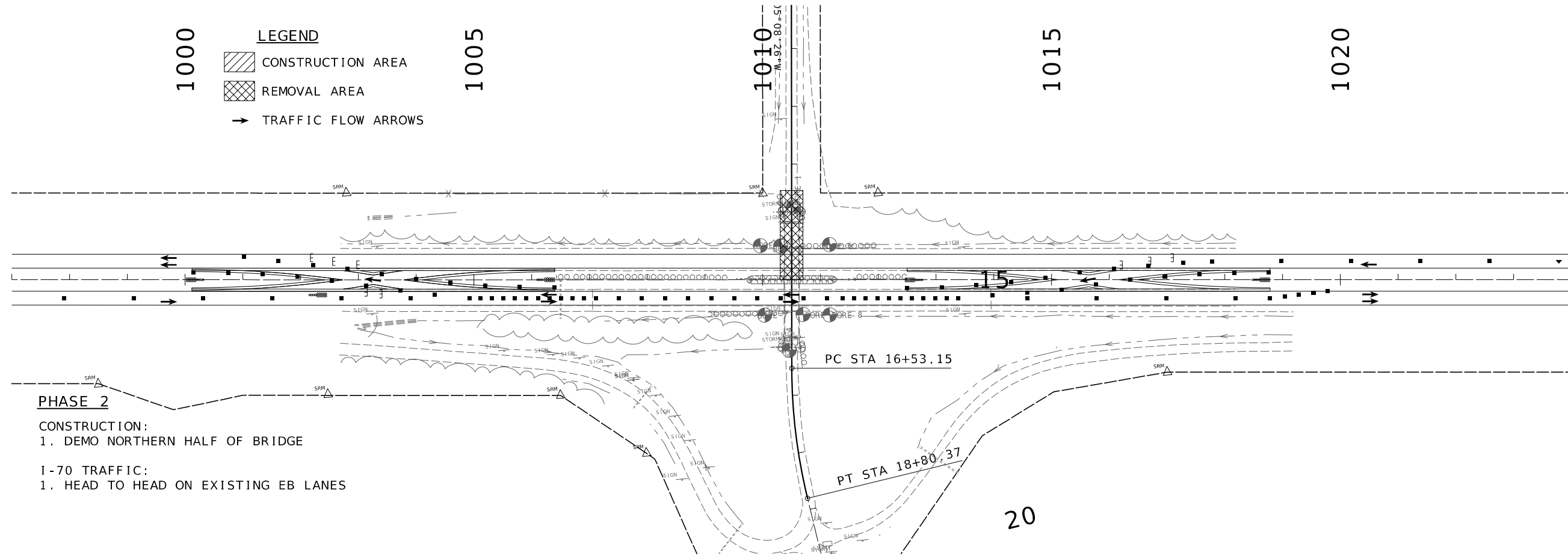
TRAFFIC FLOW ARROWS

1005

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PHASE 2

CONSTRUCTION:
1. DEMO NORTHERN HALF OF BRIDGE

I-70 TRAFFIC:
1. HEAD TO HEAD ON EXISTING EB LANES

1000

LEGEND

CONSTRUCTION AREA

REMOVAL AREA

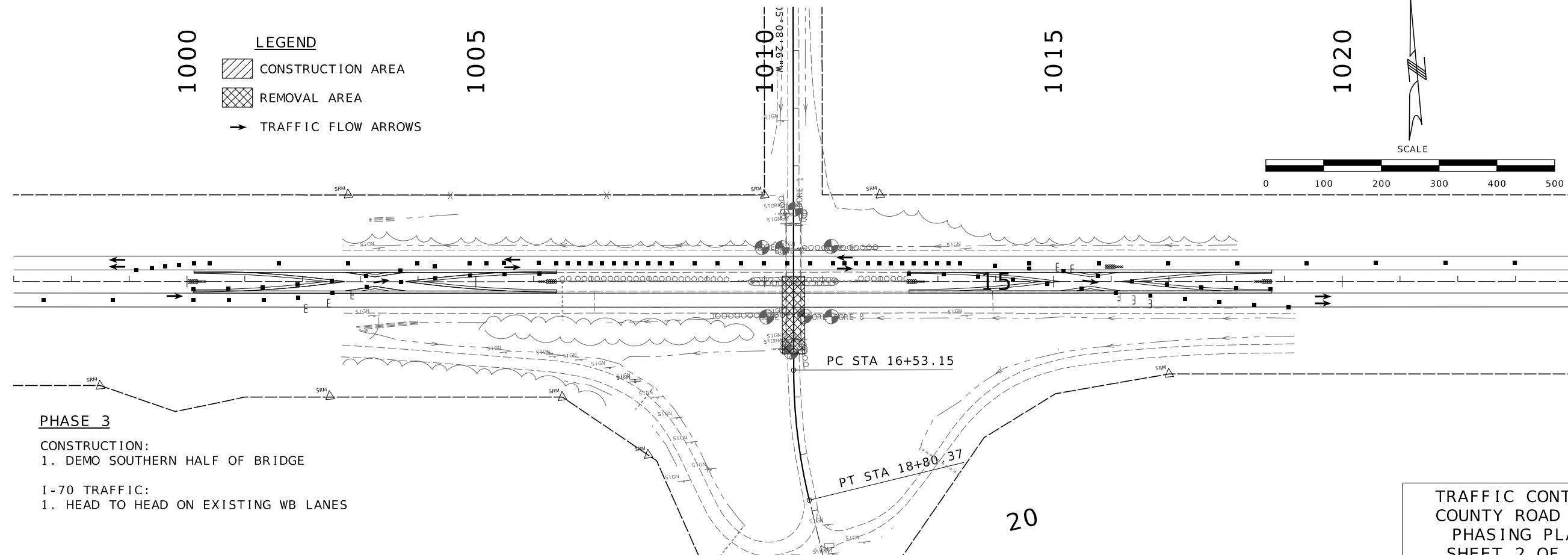
TRAFFIC FLOW ARROWS

1005

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1015

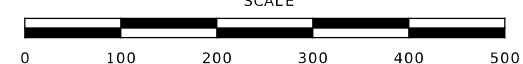
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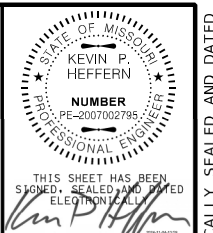
PHASE 3

CONSTRUCTION:
1. DEMO SOUTHERN HALF OF BRIDGE

I-70 TRAFFIC:
1. HEAD TO HEAD ON EXISTING WB LANES



TRAFFIC CONTROL
 COUNTY ROAD 211
 PHASING PLAN
 SHEET 2 OF 56



DATE PREPARED	
11/4/2024	
ROUTE	STATE
I-70	MO
DISTRICT	SHEET NO.
KC	16
COUNTY	
SALINE	
JOB NO.	
JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Burns & McDonnell Engineering Co., Inc.




9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400

Certificate of Authority
 No. : 000165
 BmCd Project No. 171819

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1000

LEGEND

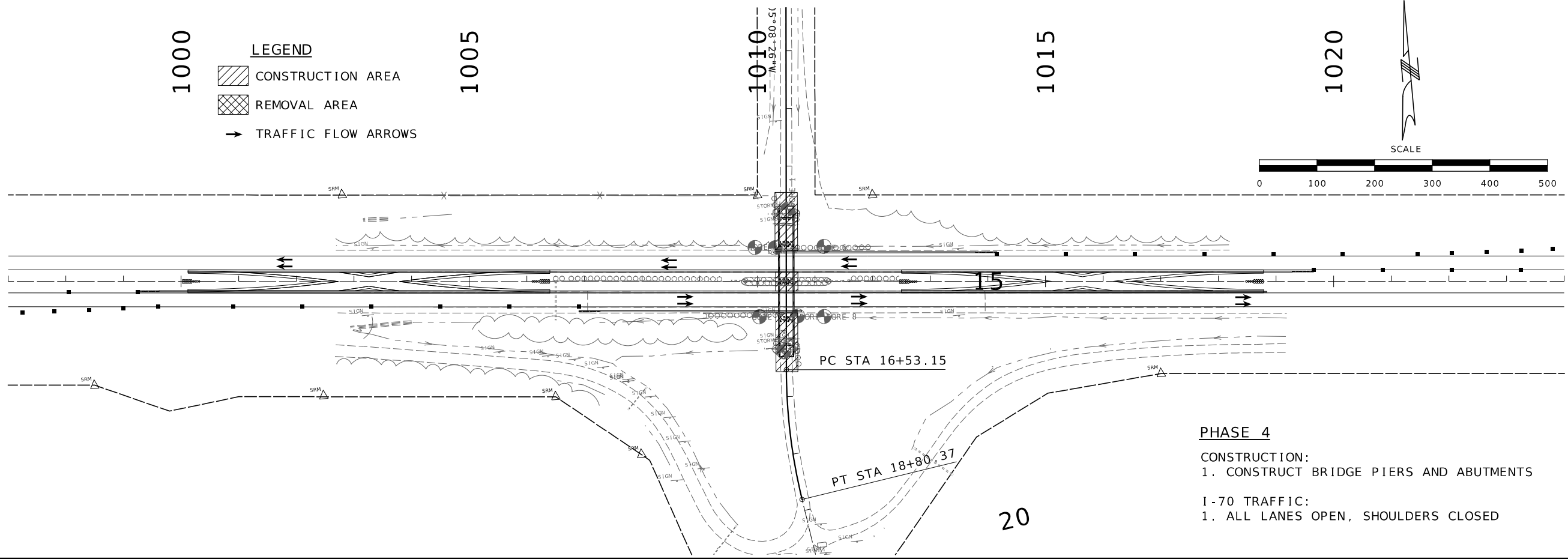
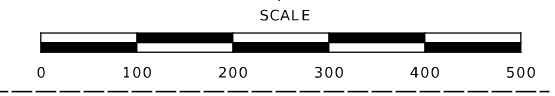
-  CONSTRUCTION AREA
-  REMOVAL AREA
-  TRAFFIC FLOW ARROWS

1005

1010

1015

1020






PHASE 4
 CONSTRUCTION:
 1. CONSTRUCT BRIDGE PIERS AND ABUTMENTS

I-70 TRAFFIC:
 1. ALL LANES OPEN, SHOULDERS CLOSED

1000

LEGEND

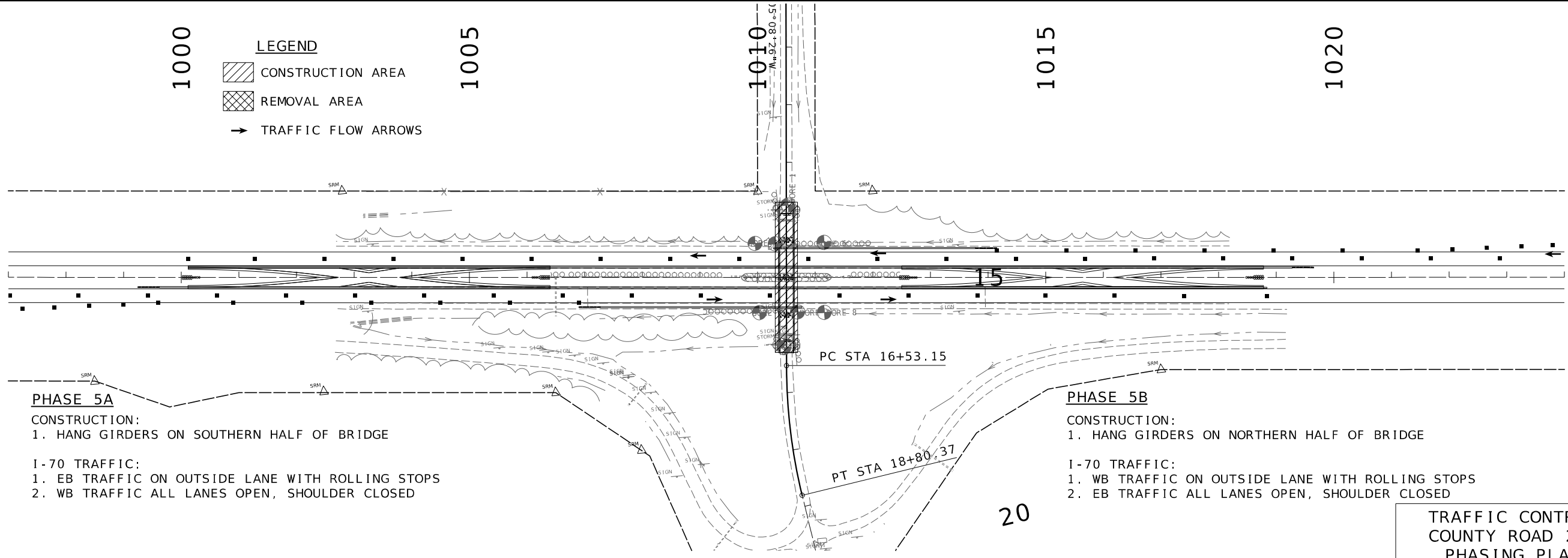
-  CONSTRUCTION AREA
-  REMOVAL AREA
-  TRAFFIC FLOW ARROWS

1005

1010

1015

1020



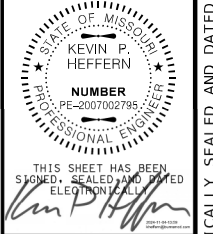
PHASE 5A
 CONSTRUCTION:
 1. HANG GIRDERS ON SOUTHERN HALF OF BRIDGE

I-70 TRAFFIC:
 1. EB TRAFFIC ON OUTSIDE LANE WITH ROLLING STOPS
 2. WB TRAFFIC ALL LANES OPEN, SHOULDER CLOSED

PHASE 5B
 CONSTRUCTION:
 1. HANG GIRDERS ON NORTHERN HALF OF BRIDGE

I-70 TRAFFIC:
 1. WB TRAFFIC ON OUTSIDE LANE WITH ROLLING STOPS
 2. EB TRAFFIC ALL LANES OPEN, SHOULDER CLOSED

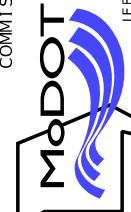
TRAFFIC CONTROL
 COUNTY ROAD 211
 PHASING PLAN
 SHEET 3 OF 56



DATE PREPARED 11/4/2024	
ROUTE I-70	STATE MO
DISTRICT KC	SHEET NO. 17
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION




105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400

Certificate of Authority
 No. : 000165
 Bldg Project No. 171819



IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.




1000

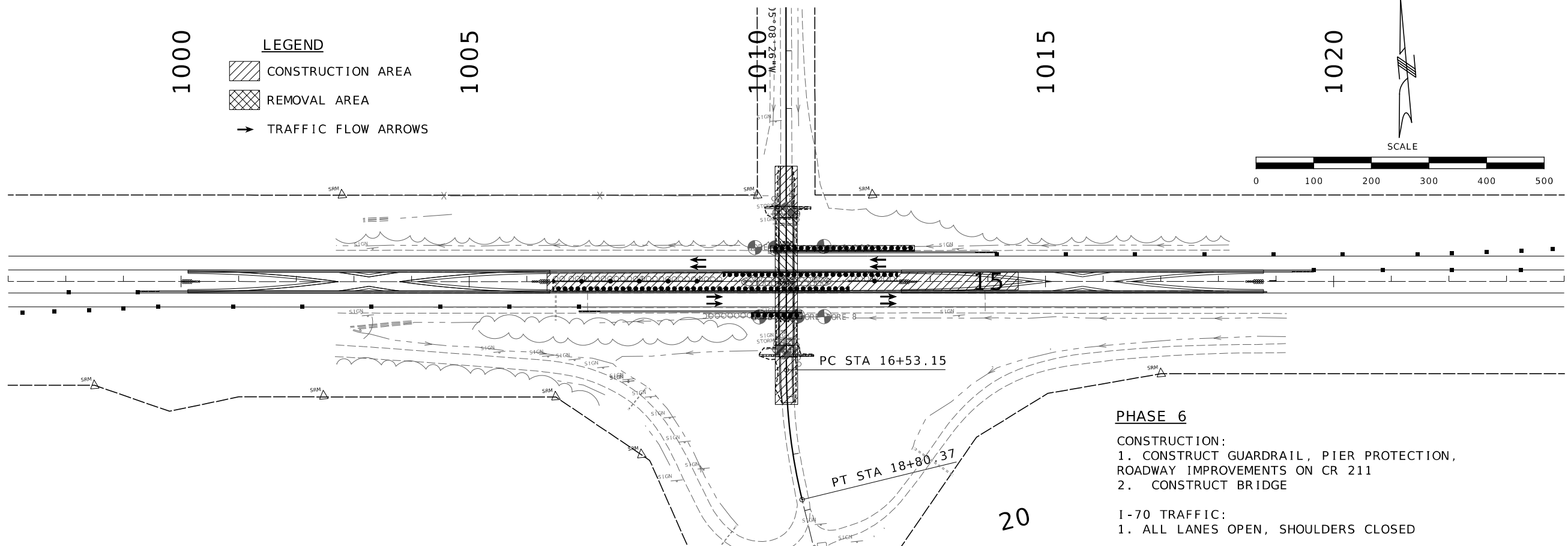
1005

1010

1015

1020

- LEGEND**
-  CONSTRUCTION AREA
 -  REMOVAL AREA
 -  TRAFFIC FLOW ARROWS



PHASE 6

CONSTRUCTION:
 1. CONSTRUCT GUARDRAIL, PIER PROTECTION,
 ROADWAY IMPROVEMENTS ON CR 211
 2. CONSTRUCT BRIDGE

I-70 TRAFFIC:
 1. ALL LANES OPEN, SHOULDERS CLOSED




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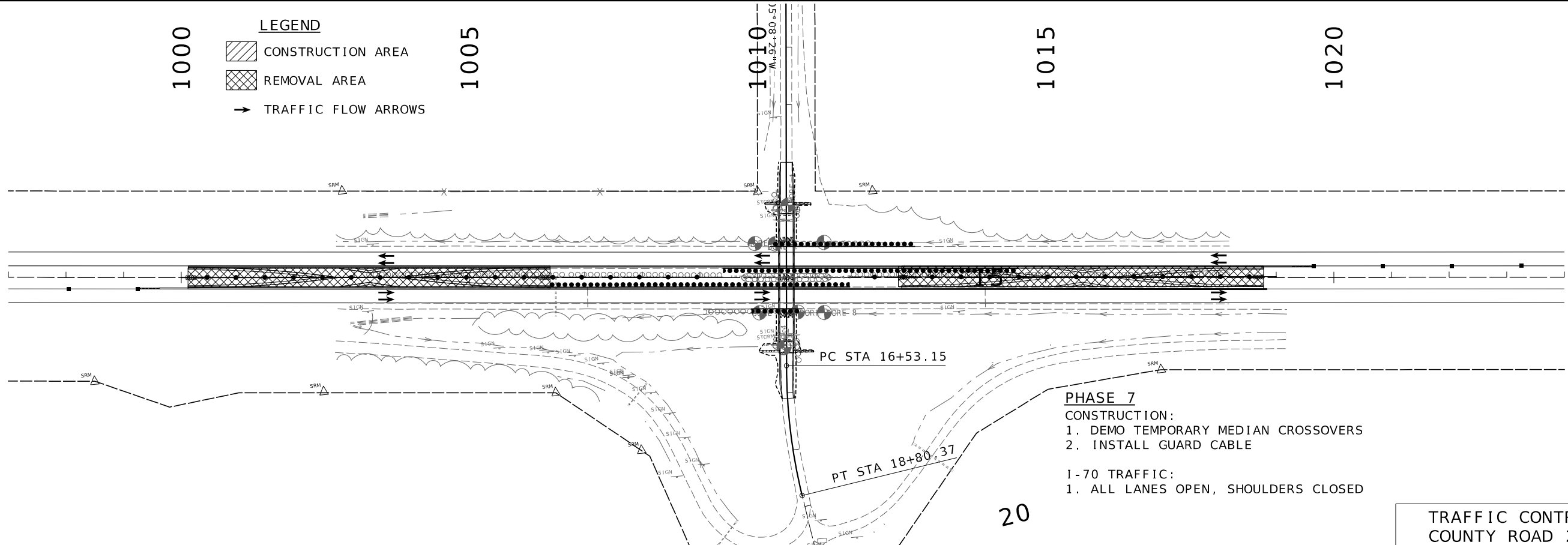
1005

1010

1015

1020

- LEGEND**
-  CONSTRUCTION AREA
 -  REMOVAL AREA
 -  TRAFFIC FLOW ARROWS

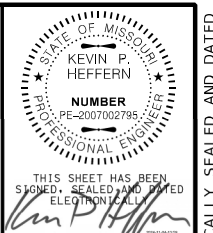


PHASE 7

CONSTRUCTION:
 1. DEMO TEMPORARY MEDIAN CROSSOVERS
 2. INSTALL GUARD CABLE

I-70 TRAFFIC:
 1. ALL LANES OPEN, SHOULDERS CLOSED

TRAFFIC CONTROL
 COUNTY ROAD 211
 PHASING PLAN
 SHEET 4 OF 56



DATE PREPARED
11/4/2024

ROUTE
I-70

STATE
MO

DISTRICT
KC

SHEET NO.
18

COUNTY
SALINE

JOB NO.
JST0016B

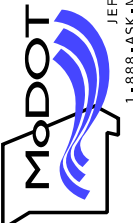
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION




105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.

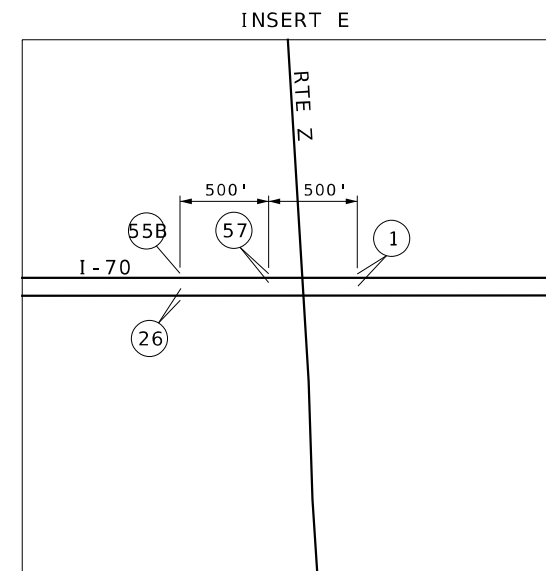
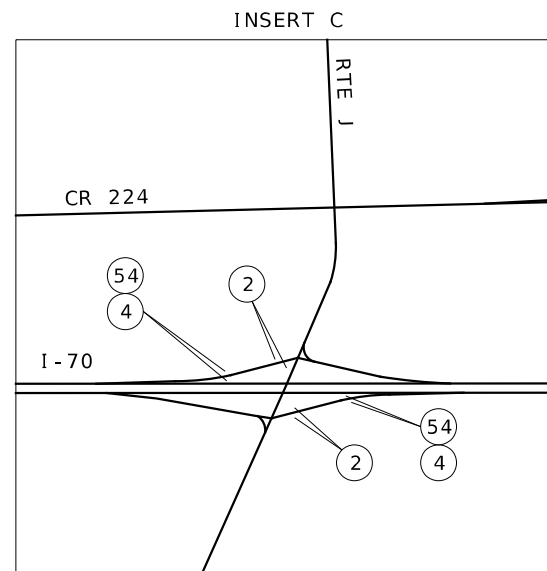
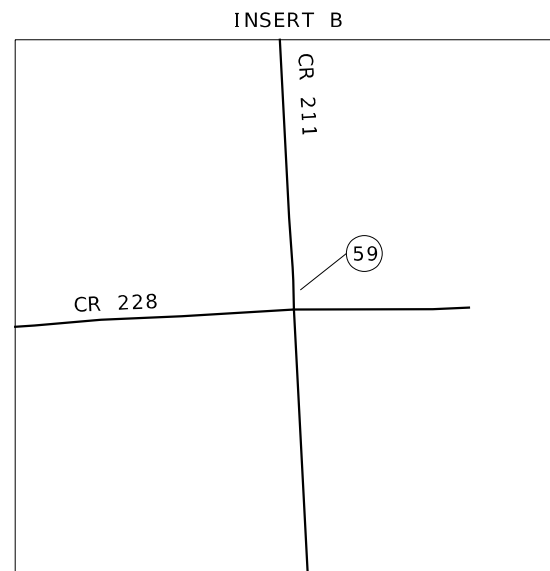
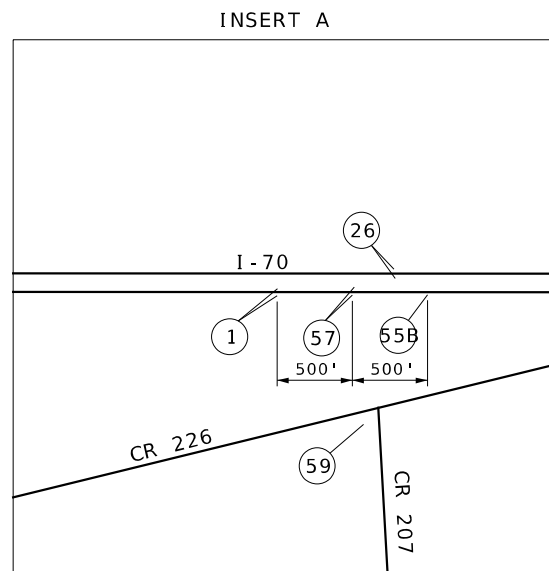
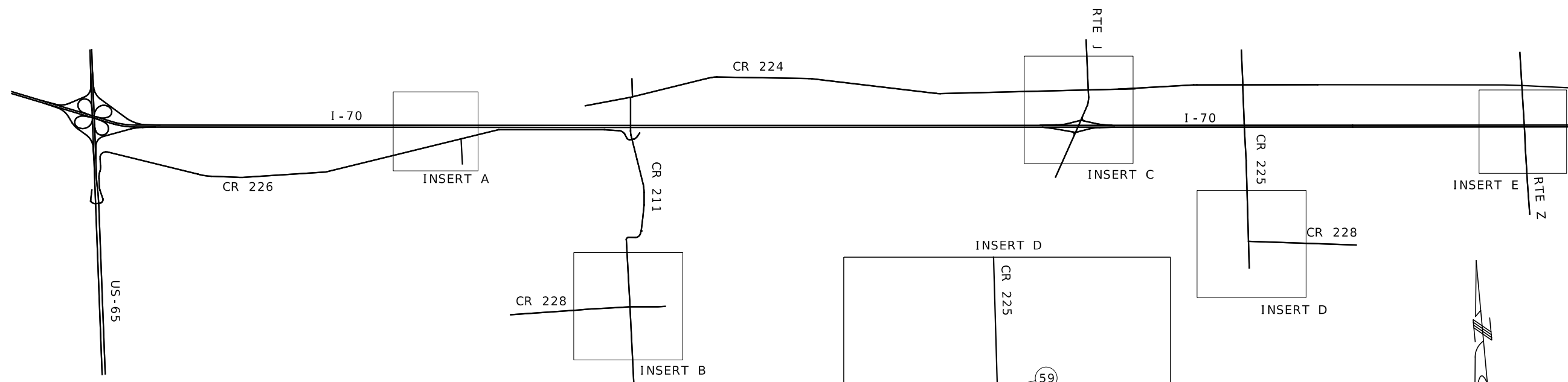
9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400

Certificate of Authority
 No. : 000165

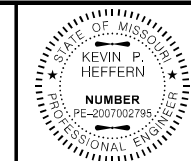
BMcD Project No. 171819



IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



TRAFFIC CONTROL
PHASE 0
SHEET 5 OF 59



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY

DATE PREPARED
11/4/2024

ROUTE STATE
I-70 MO

DISTRICT SHEET NO.
KC 19

COUNTY
SALINE

JOB NO.
JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165

BMcD Project No. 171819

BURNS
MCDONNELL



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
11/4/2024

ROUTE	STATE
1-70	MO
DISTRICT	SHEET NO.
KC	20

COUNTY
SALINE

JOB NO.
JST0016B

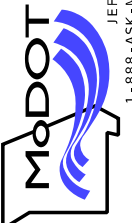
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION




105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

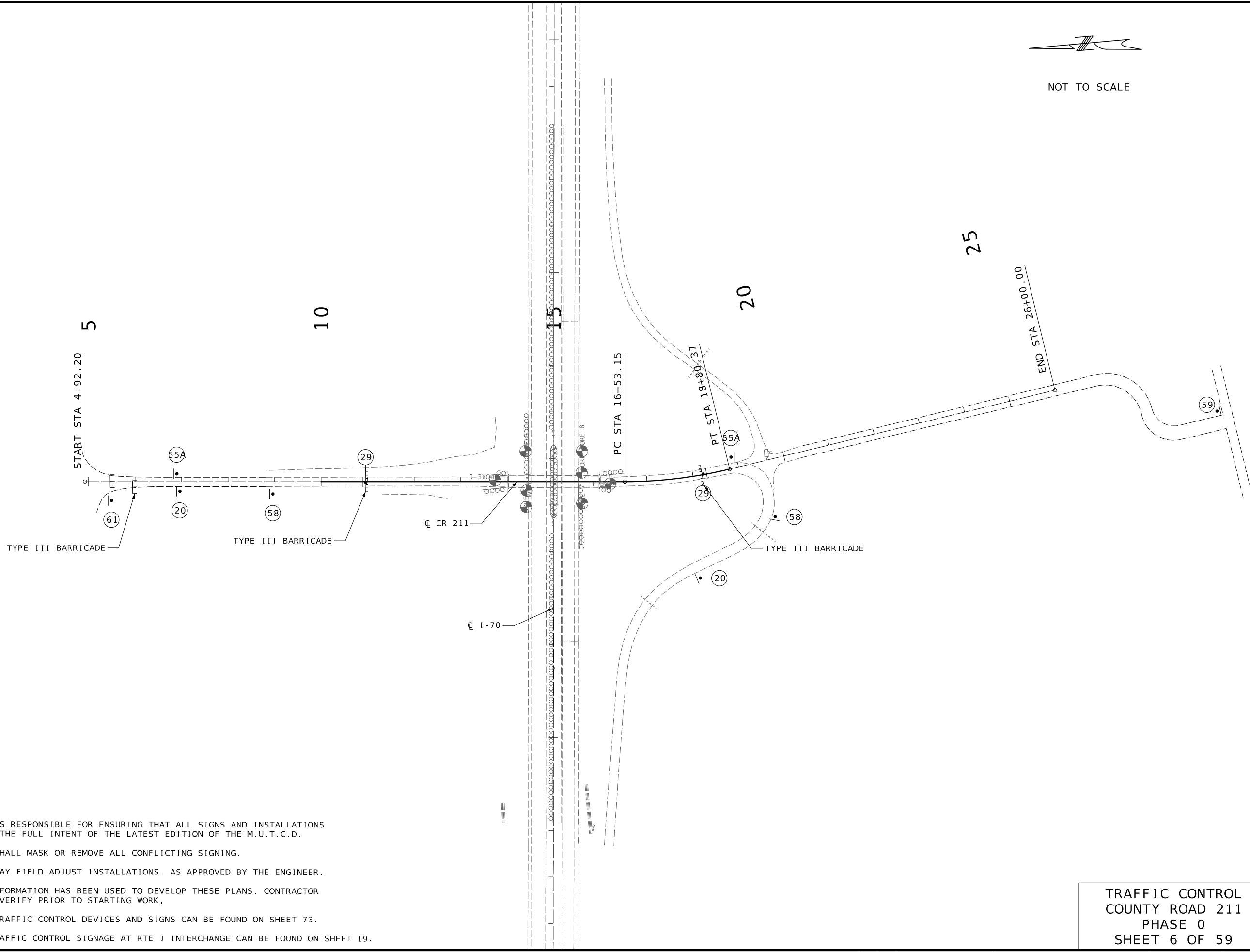
Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165
BMcD Project No. 171819



NOT TO SCALE



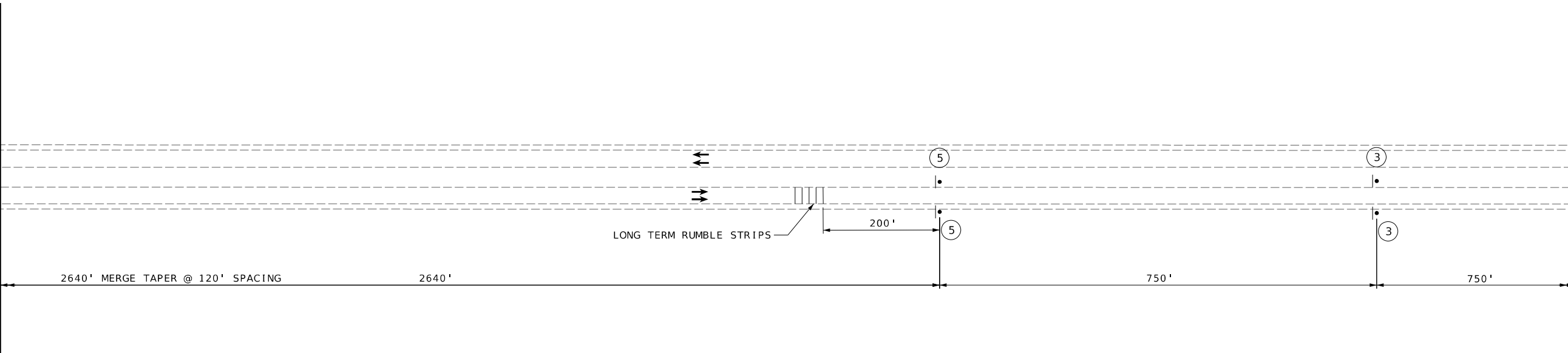
- NOTES:
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 2. CONTRACTOR SHALL MASK OR REMOVE ALL CONFLICTING SIGNING.
 3. CONTRACTOR MAY FIELD ADJUST INSTALLATIONS. AS APPROVED BY THE ENGINEER.
 4. NO SURVEY INFORMATION HAS BEEN USED TO DEVELOP THESE PLANS. CONTRACTOR SHALL FIELD VERIFY PRIOR TO STARTING WORK.
 5. LEGEND FOR TRAFFIC CONTROL DEVICES AND SIGNS CAN BE FOUND ON SHEET 73.
 6. TEMPORARY TRAFFIC CONTROL SIGNAGE AT RTE J INTERCHANGE CAN BE FOUND ON SHEET 19.

TRAFFIC CONTROL
COUNTY ROAD 211
PHASE 0
SHEET 6 OF 59

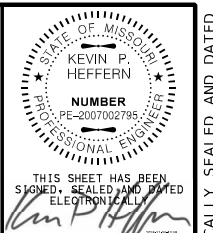
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



- NOTES:
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TRAFFIC CONTROL
 COUNTY ROAD 211
 PHASE 1
 SHEET 7 OF 59



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
11/4/2024

ROUTE 1-70	STATE MO
DISTRICT KC	SHEET NO. 21

COUNTY
SALINE

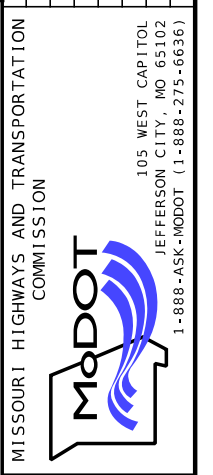
JOB NO.
JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION



Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 BMcD Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MATCHLINE STA. 969+00.00

980

985

990

995

750'

765'

START STA 980+00.00

4 54

4 54

235' SHOULDER TAPER CHANNELIZERS @ 60' SPACING

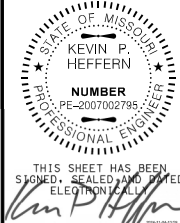
840' MERGE TAPER DIRECTIONAL BARRIERS WITH SEQUENTIAL FLASHING WARNING LIGHT @ 60' SPACING

€ I-70

2727' TANGENT CHANNELIZERS @ 120' SPACING

NOT TO SCALE

MATCHLINE STA. 996+00.00



DATE PREPARED
11/4/2024

ROUTE STATE
I-70 MO

DISTRICT SHEET NO.
KC 22

COUNTY
SALINE

JOB NO.
JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MATCHLINE STA. 996+00.00

1000

1005

1010

1015

1020

100' DOWNSTREAM TAPER 5 CHANNELIZERS MIN.

€ I-70

IMPACT ATTENUATOR

IMPACT ATTENUATOR

2727' TANGENT CHANNELIZERS @ 120' SPACING

€ CR 211

IMPACT ATTENUATOR

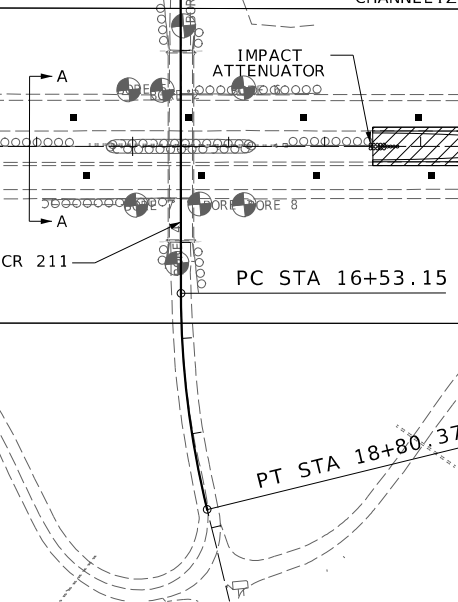
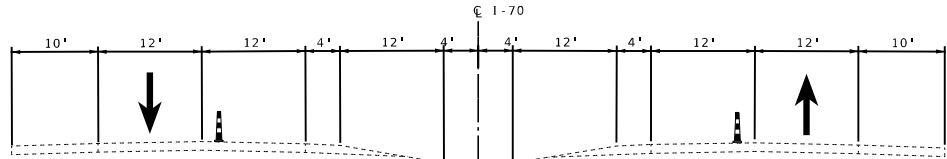
2646' TANGENT CHANNELIZERS @ 120' SPACING

IMPACT ATTENUATOR

100' DOWNSTREAM TAPER 5 CHANNELIZERS MIN.

€ I-70

MATCHLINE STA. 1023+00.00



20

TRAFFIC CONTROL
COUNTY ROAD 211
PHASE 1
SHEET 8 OF 59

MATCHLINE STA. 1023+00.00

1025

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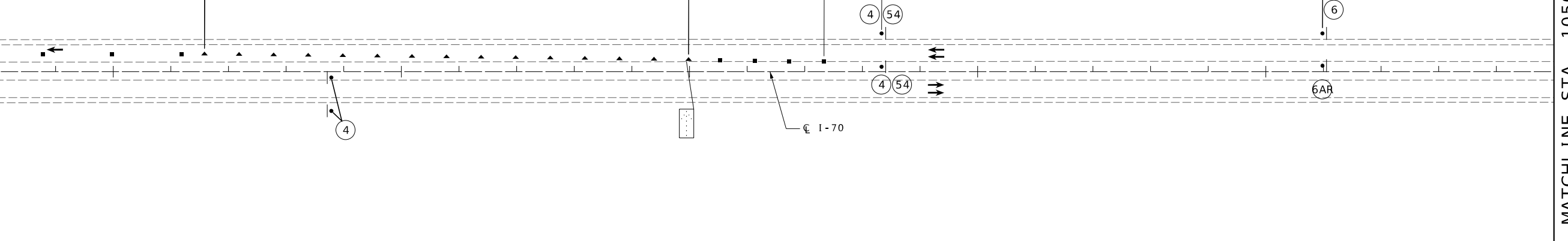
1050

2646' TANGENT CHANNELIZERS @ 120' SPACING

840' MERGE TAPER DIRECTIONAL BARRIERS WITH SEQUENTIAL FLASHING WARNING LIGHT @ 60' SPACING

235' SHOULDER TAPER CHANNELIZERS @ 60' SPACING

NOT TO SCALE



MATCHLINE STA. 1050+00.00

MATCHLINE STA. 1050+00.00

1055

1060

1065

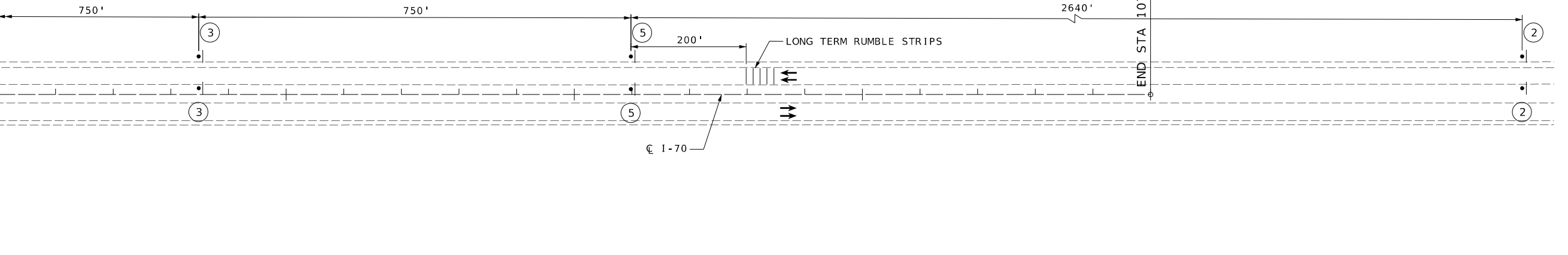
1070

750'

750'

200'

2640'



TRAFFIC CONTROL
COUNTY ROAD 211
PHASE 1
SHEET 9 OF 59



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 11/4/2024

ROUTE 1-70 STATE MO

DISTRICT KC SHEET NO. 23

COUNTY SALINE

JOB NO. JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

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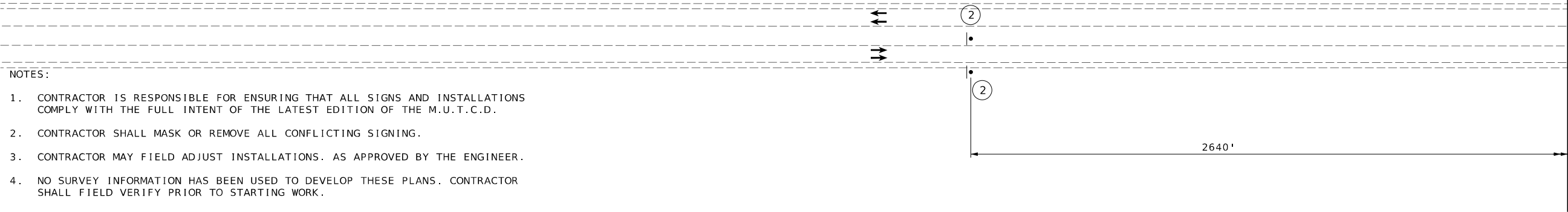
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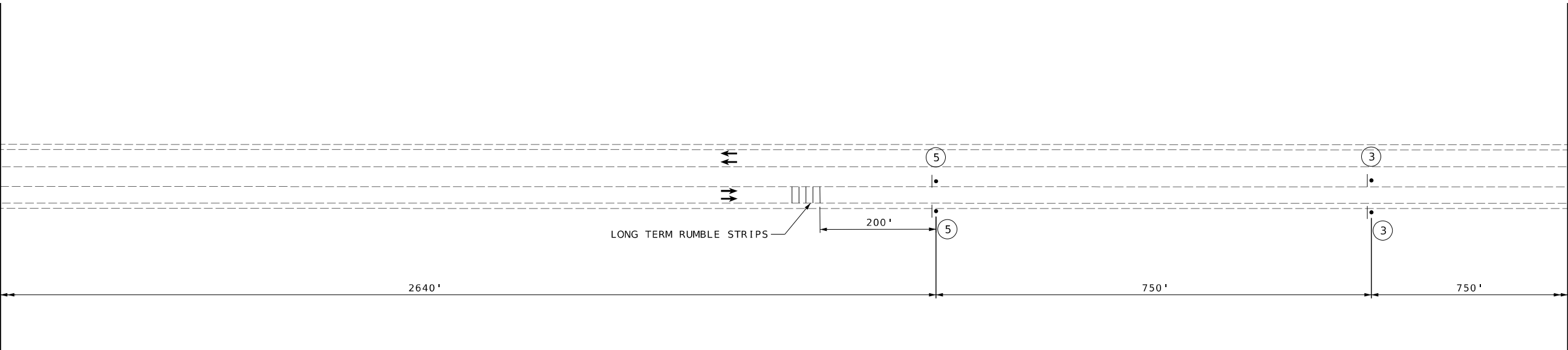
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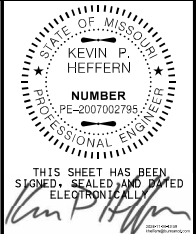
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



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TRAFFIC CONTROL
 COUNTY ROAD 211
 PHASE 2
 SHEET 10 OF 56



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
11/4/2024

ROUTE	STATE
I - 70	MO
DISTRICT	SHEET NO.
KC	24

COUNTY
SALINE

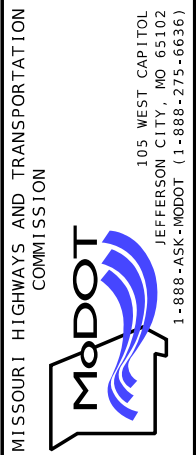
JOB NO.
JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

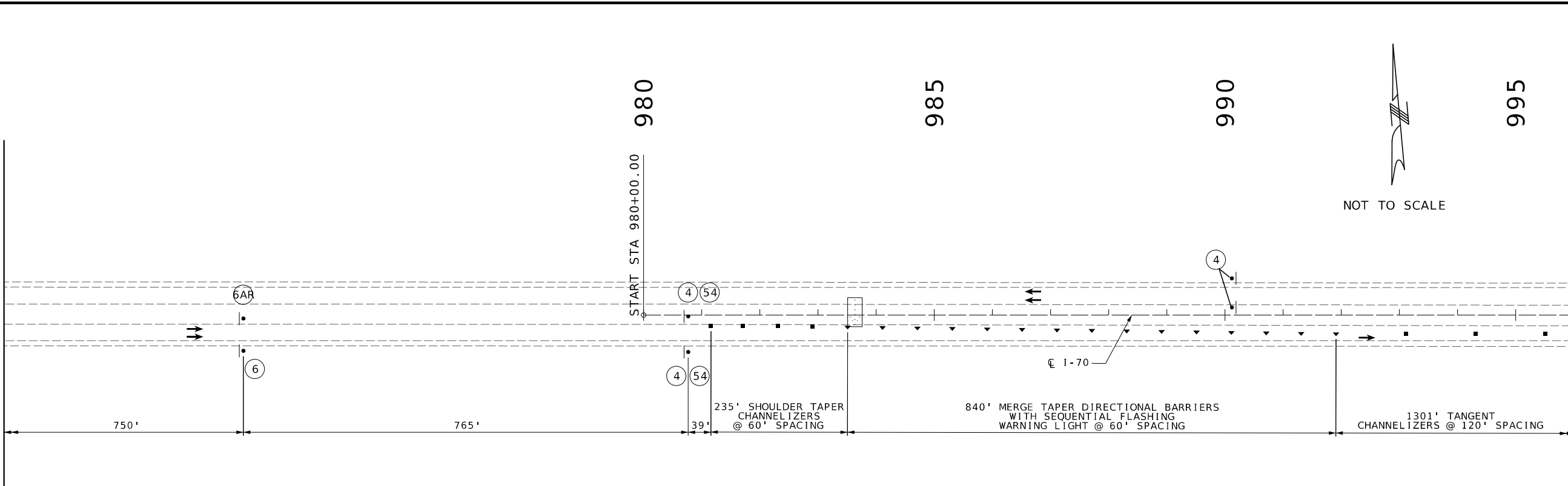
DATE	DESCRIPTION



Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 BMcD Project No. 171819

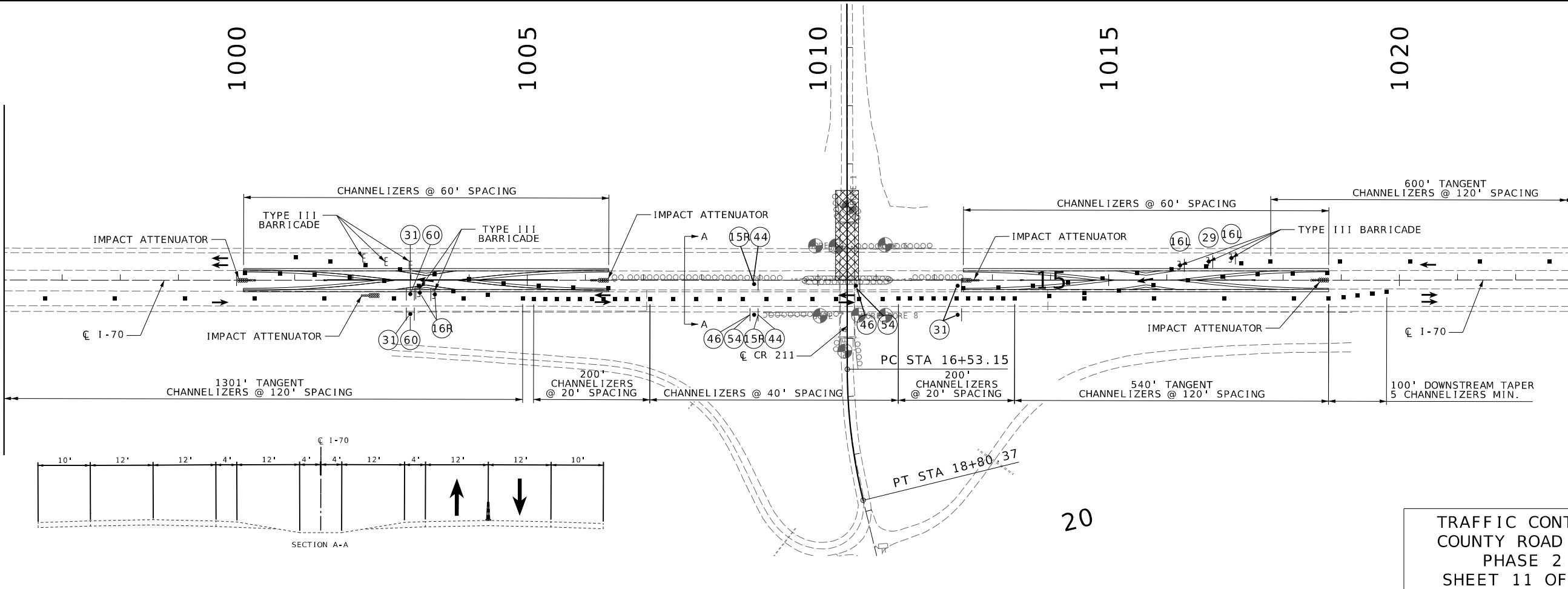
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MATCHLINE STA. 969+00.00



MATCHLINE STA. 996+00.00

MATCHLINE STA. 996+00.00



MATCHLINE STA. 1023+00.00

TRAFFIC CONTROL
 COUNTY ROAD 211
 PHASE 2
 SHEET 11 OF 56

DATE PREPARED	11/4/2024
ROUTE	I-70
STATE	MO
DISTRICT	KC
SHEET NO.	25
COUNTY	SALINE
JOB NO.	JST0016B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 BMCd Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MATCHLINE STA. 1023+00.00

1025

1030

1035

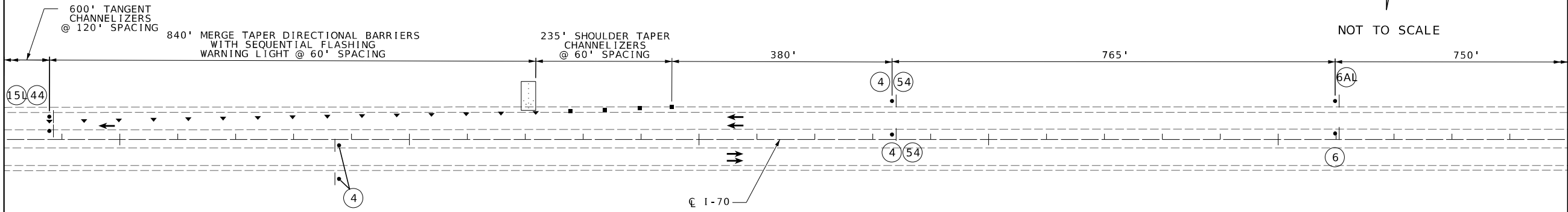
1040

1045

1050

MATCHLINE STA. 1050+00.00

NOT TO SCALE



MATCHLINE STA. 1050+00.00

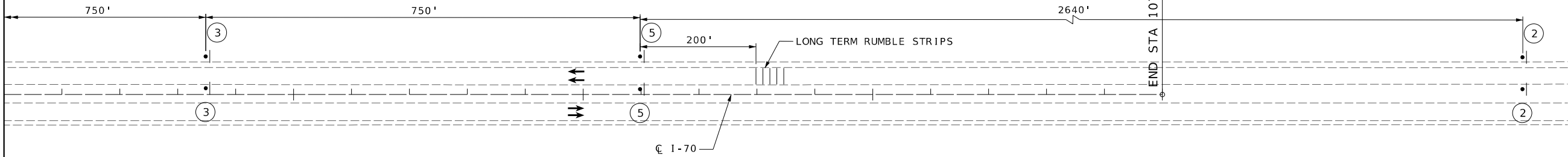
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1060

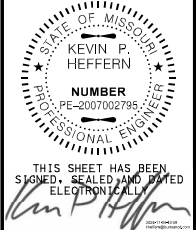
1065

1070

END STA 1070+00.00



TRAFFIC CONTROL
 COUNTY ROAD 211
 PHASE 2
 SHEET 12 OF 56



DATE PREPARED
11/4/2024

ROUTE 1-70	STATE MO
DISTRICT KC	SHEET NO. 26

COUNTY
SALINE

JOB NO.
JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

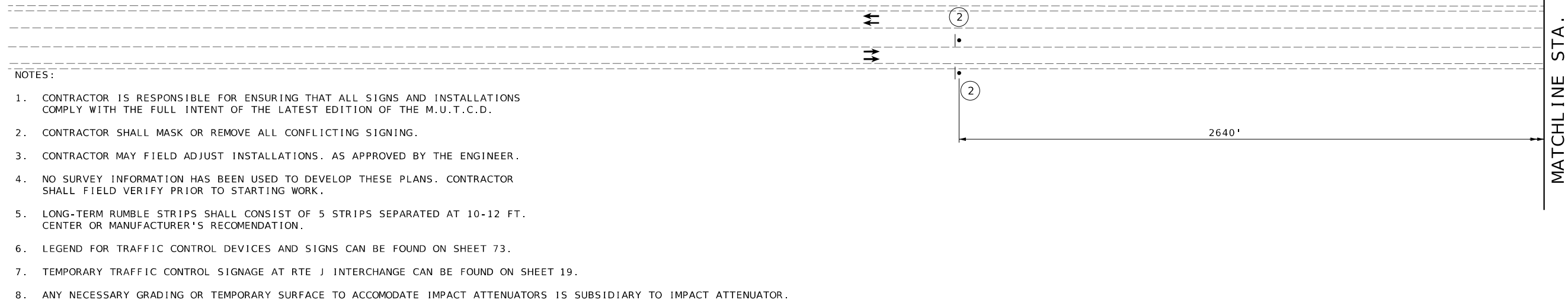
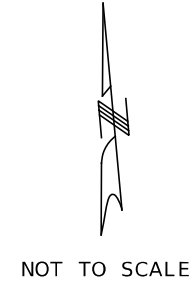
MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

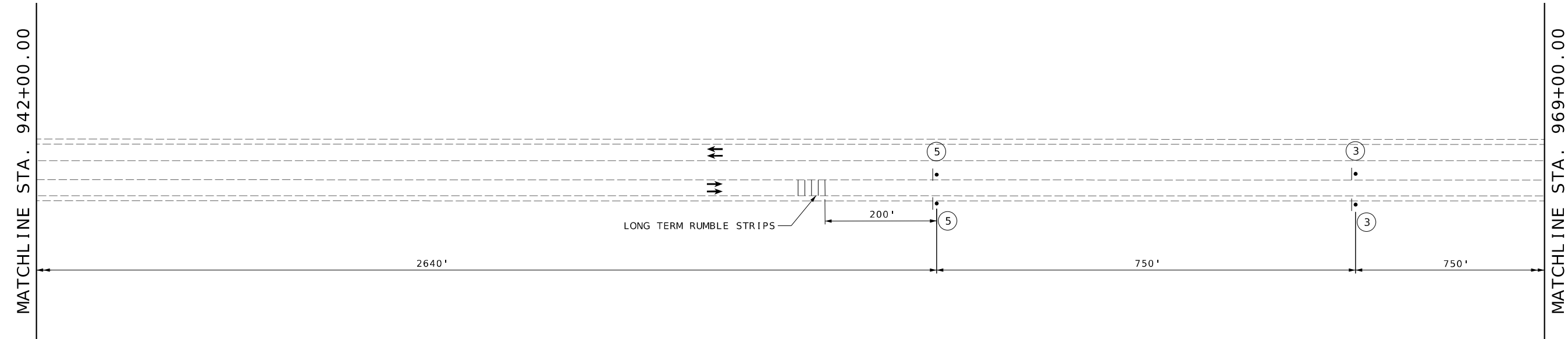
Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400

Certificate of Authority
 No. : 000165
 BMcD Project No. 171819

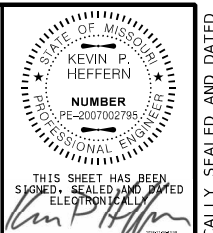
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TRAFFIC CONTROL
 COUNTY ROAD 211
 PHASE 3
 SHEET 13 OF 56



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
11/4/2024

ROUTE	STATE
I - 70	MO
DISTRICT	SHEET NO.
KC	27

COUNTY
SALINE

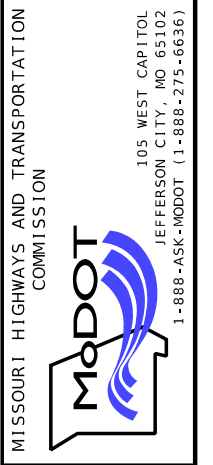
JOB NO.
JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION



Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 BMcD Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MATCHLINE STA. 969+00.00

980

985

990

995

START STA 980+00.00

NOT TO SCALE

MATCHLINE STA. 996+00.00

750'

765'

360'

235' SHOULDER TAPER CHANNELIZERS @ 60' SPACING

840' MERGE TAPER DIRECTIONAL BARRIERS WITH SEQUENTIAL FLASHING WARNING LIGHTS @ 60' SPACING

500' TANGENT CHANNELIZERS @ 120' SPACING

1000

1005

1010

1015

1020

MATCHLINE STA. 996+00.00

MATCHLINE STA. 1023+00.00

100' DOWNSTREAM TAPER 5 CHANNELIZERS MIN.

600' CHANNELIZERS @ 120' SPACING

200' CHANNELIZERS @ 20' SPACING

220' CHANNELIZERS @ 20' SPACING

1320' TANGENT CHANNELIZERS @ 120' SPACING

IMPACT ATTENUATOR

TYPE III BARRICADE

IMPACT ATTENUATOR

500' TANGENT CHANNELIZERS @ 120' SPACING

TYPE III BARRICADE

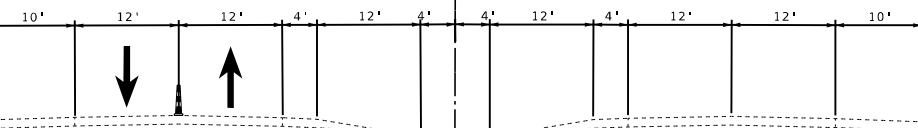
CHANNELIZERS @ 60' SPACING

CHANNELIZERS @ 40' SPACING

TYPE III BARRICADE

CHANNELIZERS @ 60' SPACING

IMPACT ATTENUATOR



SECTION A-A

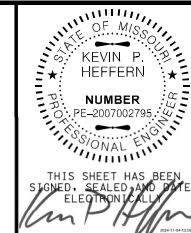
CR 211

PC STA 16+53.15

PT STA 18+80.37

20

TRAFFIC CONTROL
COUNTY ROAD 211
PHASE 3
SHEET 14 OF 56



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 11/4/2024

ROUTE 1-70 STATE MO

DISTRICT KC SHEET NO. 28

COUNTY SALINE

JOB NO. JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-273-6636)

MoDOT logo

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway Kansas City, Missouri 64114 816-333-9400

Certificate of Authority No. : 000165

BMcD Project No. 171819

BURNS MCDONNELL logo

MATCHLINE STA. 1023+00.00

1025

1030

1035

1040

1045

1050

MATCHLINE STA. 1050+00.00

1320' TANGENT CHANNELIZERS @ 120' SPACING

840' MERGE TAPER DIRECTIONAL BARRIERS WITH SEQUENTIAL FLASHING WARNING LIGHTS @ 60' SPACING

235' SHOULDER TAPER CHANNELIZERS @ 60' SPACING

100'

765'

NOT TO SCALE

750'

4

4 54

4 54

6

6A

1-70

MATCHLINE STA. 1050+00.00

1055

1060

1065

1070

1070

END STA 1070+00.00

750'

750'

2640'

3

3

5

5

200'

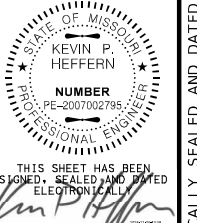
LONG TERM RUMBLE STRIPS

2

2

1-70

TRAFFIC CONTROL
COUNTY ROAD 211
PHASE 3
SHEET 15 OF 56



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 11/4/2024

ROUTE 1-70 STATE MO

DISTRICT KC SHEET NO. 29

COUNTY SALINE

JOB NO. JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

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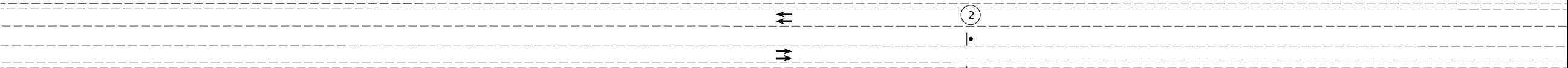
DATE

DESCRIPTION

DATE

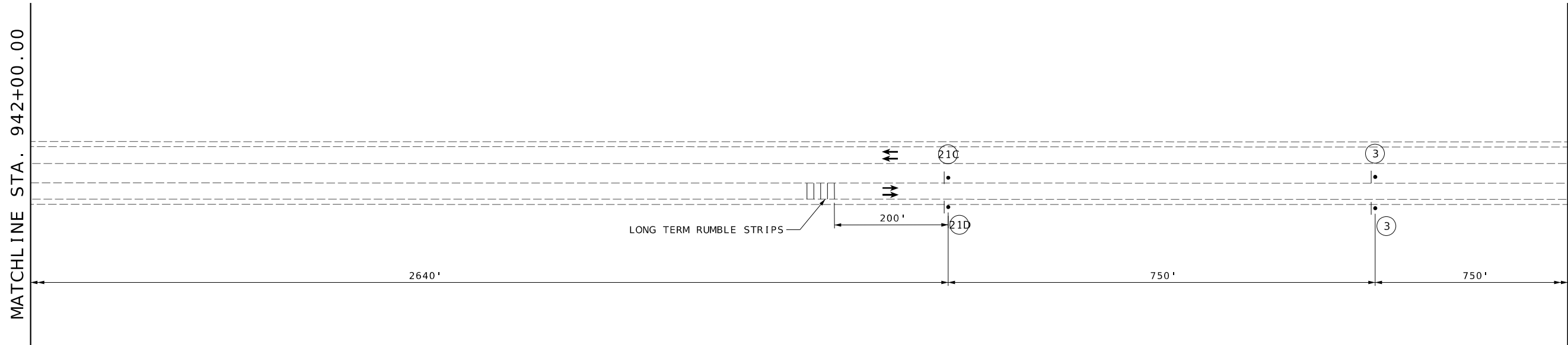
DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

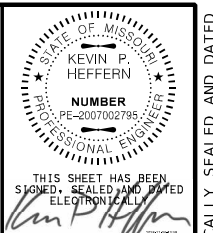


NOTES:

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6. LEGEND FOR TRAFFIC CONTROL DEVICES AND SIGNS CAN BE FOUND ON SHEET 73.
7. TEMPORARY TRAFFIC CONTROL SIGNAGE AT RTE J INTERCHANGE CAN BE FOUND ON SHEET 19.
8. ANY NECESSARY GRADING OR TEMPORARY SURFACE TO ACCOMODATE IMPACT ATTENUATORS IS SUBSIDIARY TO IMPACT ATTENUATOR.



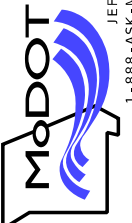
TRAFFIC CONTROL
 COUNTY ROAD 211
 PHASE 4
 SHEET 16 OF 56



DATE PREPARED 11/4/2024	
ROUTE I-70	STATE MO
DISTRICT KC	SHEET NO. 30
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	


DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

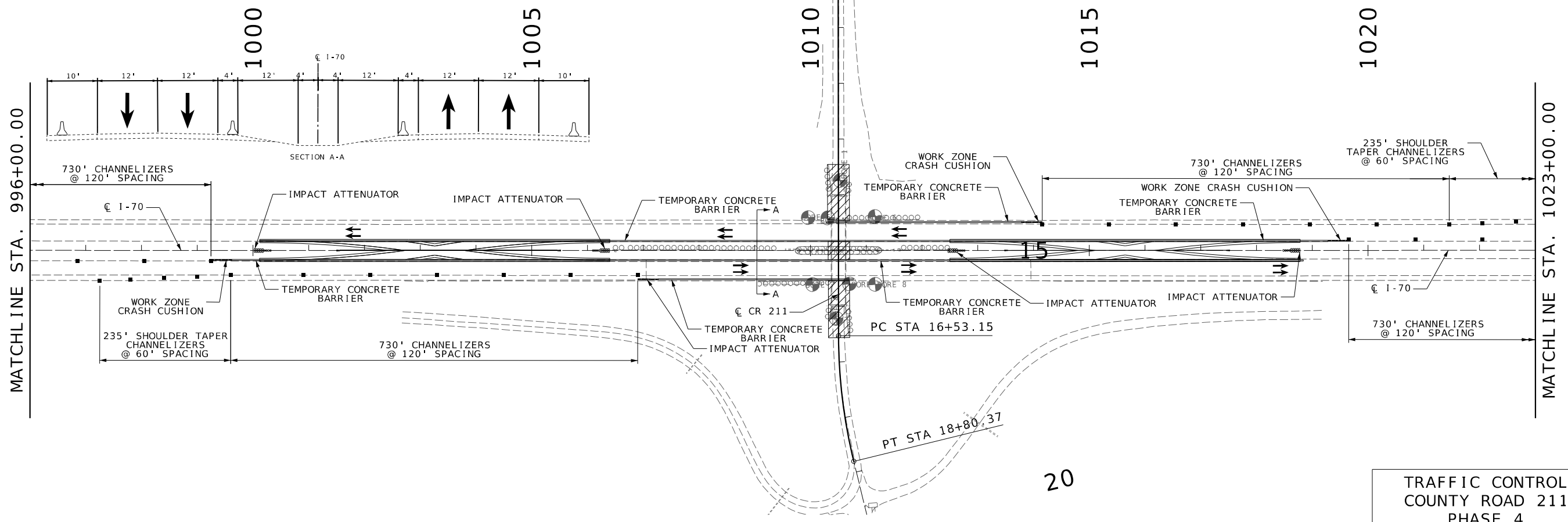
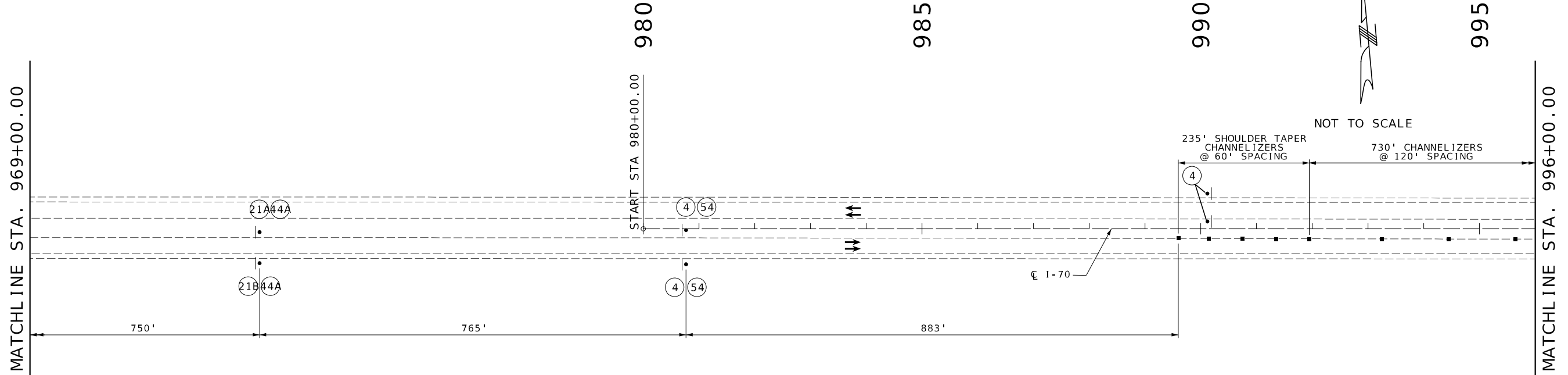


105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

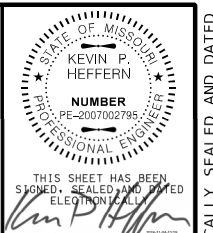
Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 BMcD Project No. 171819



IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



TRAFFIC CONTROL
 COUNTY ROAD 211
 PHASE 4
 SHEET 17 OF 56



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 11/4/2024

ROUTE	STATE
I-70	MO
DISTRICT	SHEET NO.
KC	31

COUNTY: SALINE
 JOB NO.: JST0016B
 CONTRACT ID.:
 PROJECT NO.:
 BRIDGE NO.:

DATE	DESCRIPTION

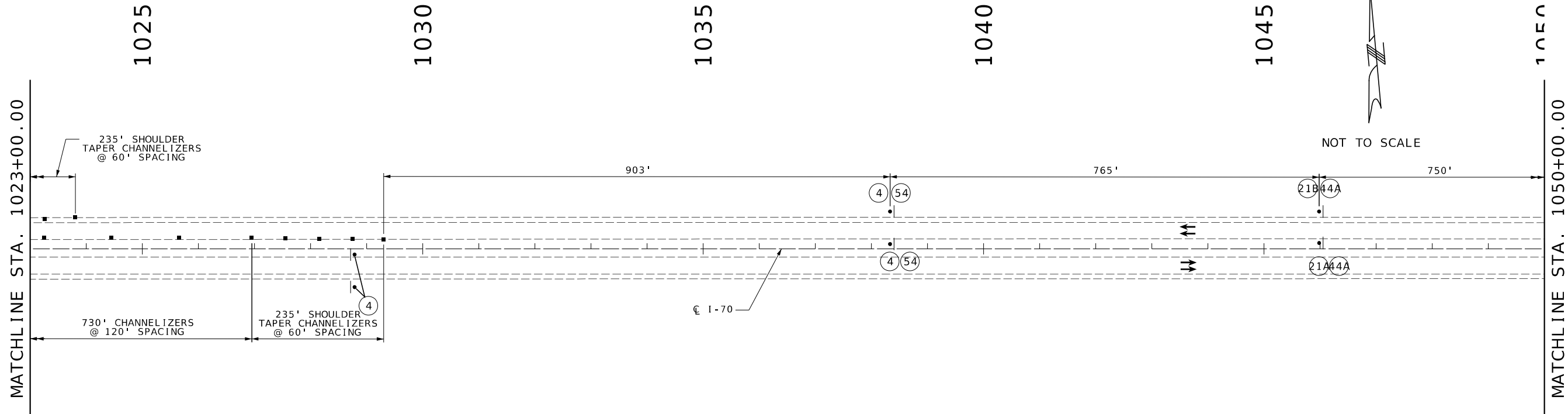
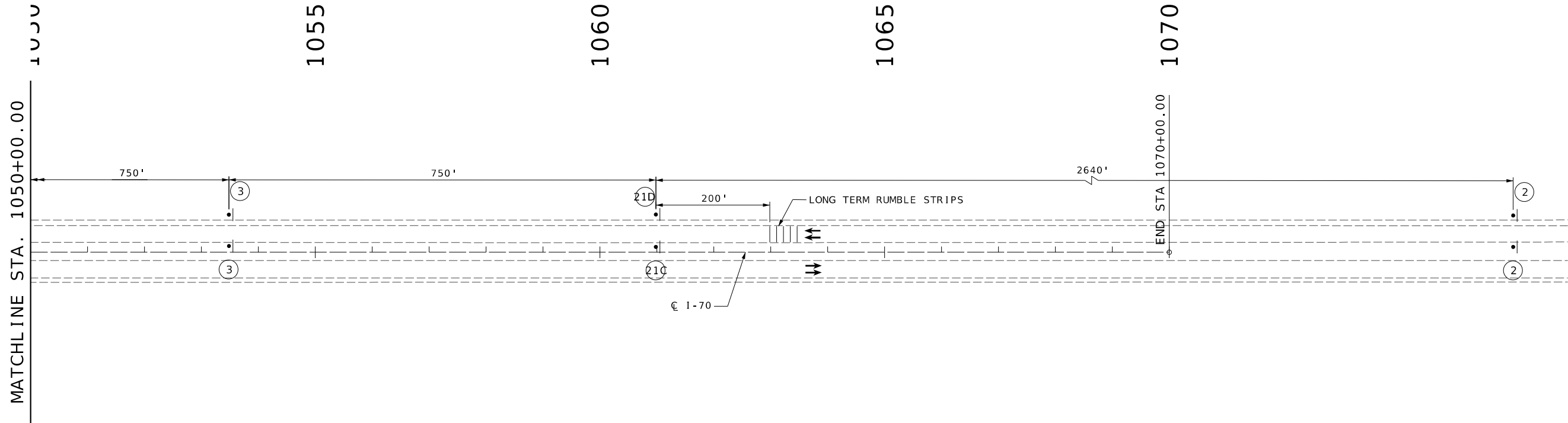
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400

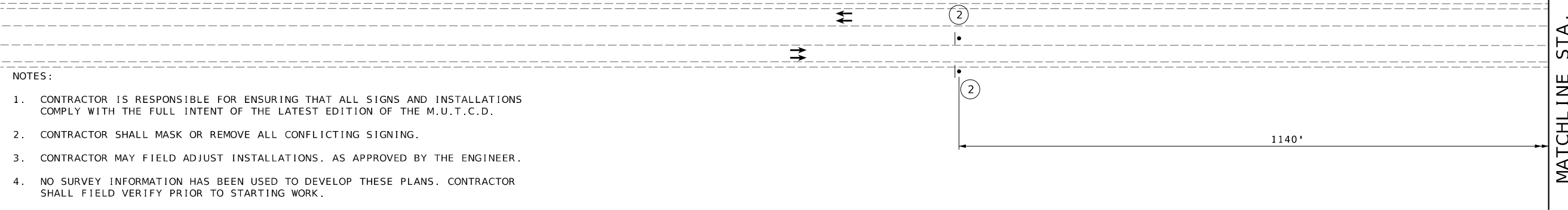
Certificate of Authority
 No. : 000165
 BmCD Project No. 171819



TRAFFIC CONTROL
 COUNTY ROAD 211
 PHASE 4
 SHEET 18 OF 56

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY. <i>Kevin P. Heffern</i>	
DATE PREPARED	11/4/2024
ROUTE	1-70
STATE	MO
DISTRICT	KC
SHEET NO.	32
COUNTY	SALINE
JOB NO.	JST0016B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
DATE	
DESCRIPTION	
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 	
9400 Ward Parkway Kansas City, Missouri 64114 816-333-9400 Certificate of Authority No. : 000165 BMcD Project No. 171819	
105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-273-6636)	

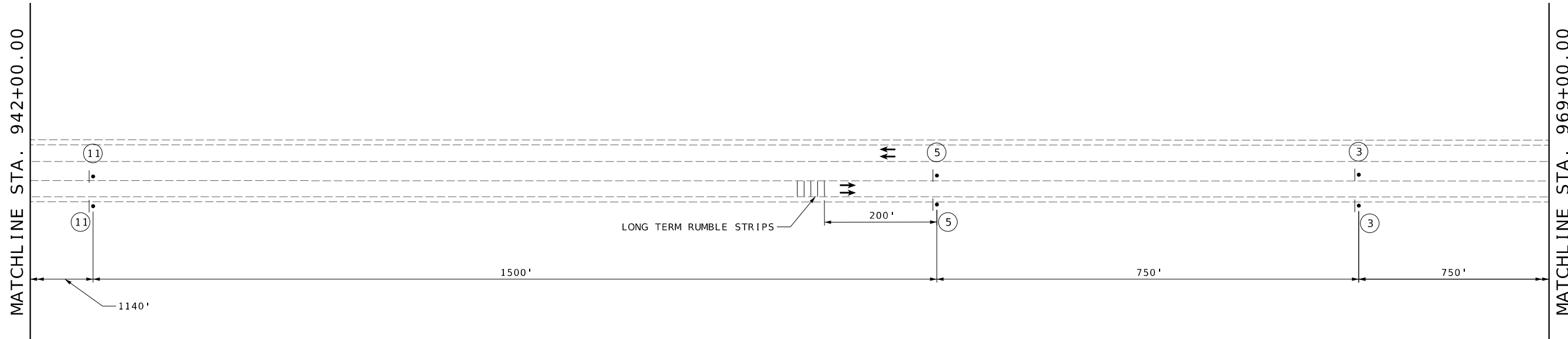
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



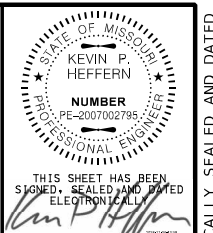
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6. LEGEND FOR TRAFFIC CONTROL DEVICES AND SIGNS CAN BE FOUND ON SHEET 73.
7. TEMPORARY TRAFFIC CONTROL SIGNAGE AT RTE J INTERCHANGE CAN BE FOUND ON SHEET 19.
8. ANY NECESSARY GRADING OR TEMPORARY SURFACE TO ACCOMODATE IMPACT ATTENUATORS IS SUBSIDIARY TO IMPACT ATTENUATOR.

PHASE 5 TRAFFIC CONTROL PLANS SHOW LANE CLOSURE AND ROLLING STOP WHEN IMPACTED BY SETTING GIRDERS. REFER TO PHASE 6 TRAFFIC CONTROL PLANS FOR TRAFFIC CONTROL WHEN NOT IMPACTED BY SETTING GIRDERS.
 A DYNAMIC LATE MERGE SYSTEM SHALL BE IN PLACE ALONG LANES IMPACTED BY SETTING GIRDERS DURING PHASE 5. REFER TO JOB SPECIAL PROVISIONS FOR DETAILS.



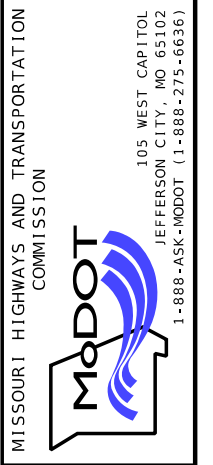
TRAFFIC CONTROL
 COUNTY ROAD 211
 PHASE 5
 SHEET 19 OF 56



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 11/4/2024	
ROUTE 1-70	STATE MO
DISTRICT KC	SHEET NO. 33
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION



Missouri Highways and Transportation Commission
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 BMcD Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MATCHLINE STA. 969+00.00

980

985

990

995

START STA 980+00.00

MATCHLINE STA. 996+00.00

NOT TO SCALE

750'

765'

80'

235' SHOULDER TAPER CHANNELIZERS @ 60' SPACING PHASE 5A

840' MERGE TAPER DIRECTIONAL BARRIERS WITH SEQUENTIAL FLASHING WARNING LIGHTS @ 60' SPACING PHASE 5A

2652' CHANNELIZERS @ 120' SPACING PHASE 5A

PHASE 5 TRAFFIC CONTROL PLANS SHOW LANE CLOSURE AND ROLLING STOP WHEN IMPACTED BY SETTING GIRDERS. REFER TO PHASE 6 TRAFFIC CONTROL PLANS FOR TRAFFIC CONTROL WHEN NOT IMPACTED BY SETTING GIRDERS.

MATCHLINE STA. 996+00.00

1000

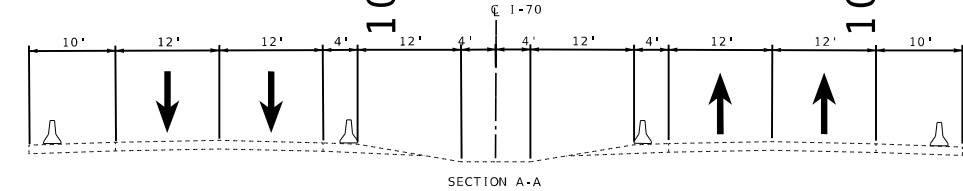
1005

1010

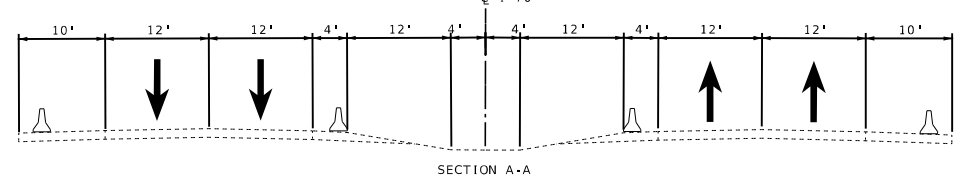
1015

1020

MATCHLINE STA. 1023+00.00



SECTION A-A



SECTION A-A

2646' CHANNELIZERS @ 120' SPACING PHASE 5B

2652' CHANNELIZERS @ 120' SPACING PHASE 5A

IMPACT ATTENUATOR

WORK ZONE CRASH CUSHION

WORK ZONE CRASH CUSHION

WORK ZONE CRASH CUSHION

IMPACT ATTENUATOR

CR 211

PC STA 16+53.15

PT STA 18+80.37

20

TRAFFIC CONTROL
COUNTY ROAD 211
PHASE 5
SHEET 20 OF 56

DATE PREPARED 11/4/2024	
ROUTE I-70	STATE MO
DISTRICT KC	SHEET NO. 34
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165
BMcD Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MATCHLINE STA. 1023+00.00

1025

1030

1035

1040

1045

1050

MATCHLINE STA. 1050+00.00

2646' CHANNELIZERS @
120' SPACING
PHASE 5B

840' MERGE TAPER DIRECTIONAL BARRIERS
WITH SEQUENTIAL FLASHING
WARNING LIGHTS @ 60' SPACING PHASE 5B

235' SHOULDER TAPER
CHANNELIZERS @ 60'
SPACING PHASE 5B

865'

750'

NOT TO SCALE

4

4

54

6A

6

€ I-70

PHASE 5 TRAFFIC CONTROL PLANS SHOW LANE CLOSURE AND ROLLING STOP WHEN IMPACTED BY SETTING GIRDERS.
REFER TO PHASE 6 TRAFFIC CONTROL PLANS FOR TRAFFIC CONTROL WHEN NOT IMPACTED BY SETTING GIRDERS.

MATCHLINE STA. 1050+00.00

1055

1060

1065

1070

END STA 1070+00.00

750'

750'

1480'

1160'

3

3

5

5

200'

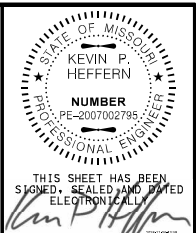
LONG TERM RUMBLE STRIPS

€ I-70

11

11

TRAFFIC CONTROL
COUNTY ROAD 211
PHASE 5
SHEET 21 OF 56



DATE PREPARED 11/4/2024	
ROUTE I-70	STATE MO
DISTRICT KC	SHEET NO. 35
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

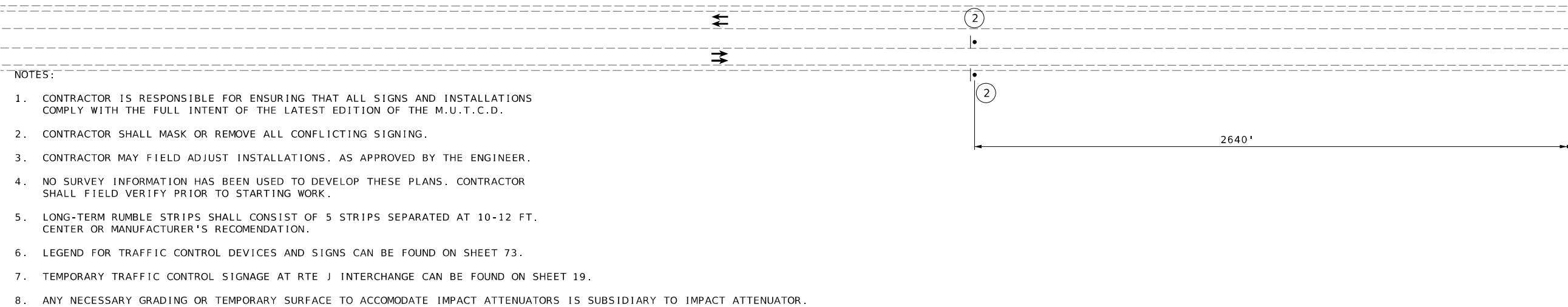
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

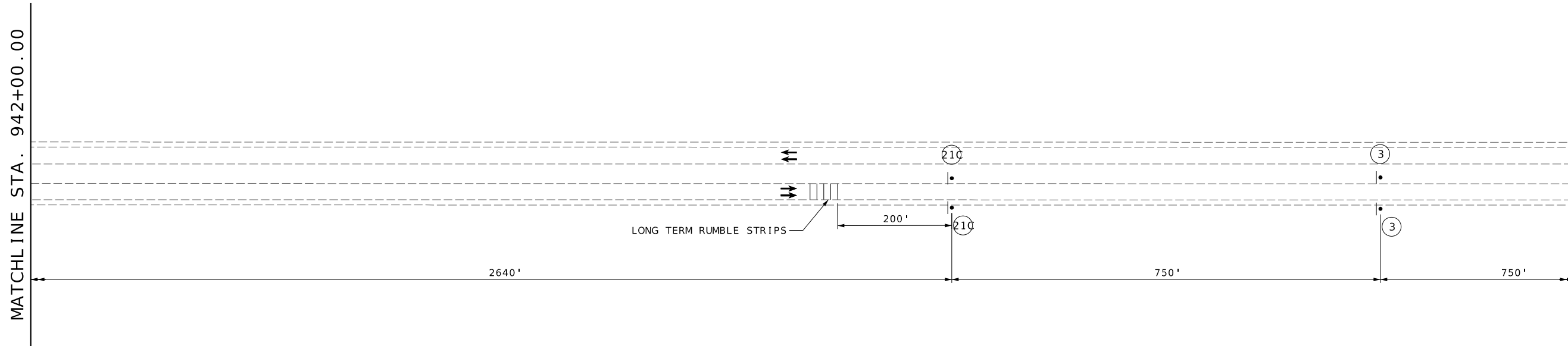
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JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 171819

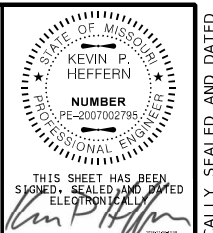
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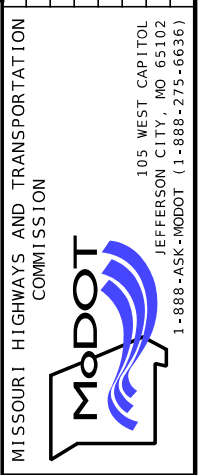


TRAFFIC CONTROL
 COUNTY ROAD 211
 PHASE 6
 SHEET 22 OF 56



DATE PREPARED 11/4/2024	
ROUTE I-70	STATE MO
DISTRICT KC	SHEET NO. 36
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION



Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 BMcD Project No. 171819

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MATCHLINE STA. 969+00.00

980

985

990

995

MATCHLINE STA. 996+00.00

750'

765'

883'

START STA 980+00.00

NOT TO SCALE

235' SHOULDER TAPER CHANNELIZERS @ 60' SPACING

730' TANGENT CHANNELIZERS @ 120' SPACING

21A44A

21A44A

4 54

4 54

4

€ I-70

MATCHLINE STA. 996+00.00

1000

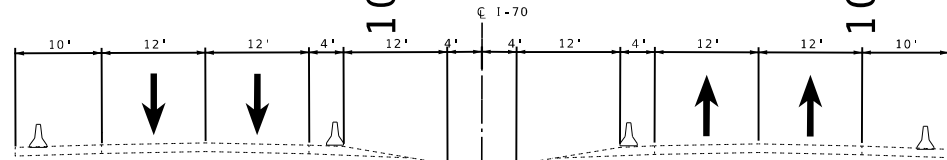
1005

1010

1015

1020

MATCHLINE STA. 1023+00.00



SECTION A-A

730' TANGENT CHANNELIZERS @ 120' SPACING

235' SHOULDER TAPER CHANNELIZERS @ 60' SPACING

730' TANGENT CHANNELIZERS @ 120' SPACING

730' TANGENT CHANNELIZERS @ 120' SPACING

235' SHOULDER TAPER CHANNELIZERS @ 60' SPACING

€ I-70

€ I-70

IMPACT ATTENUATOR

IMPACT ATTENUATOR

TEMPORARY CONCRETE BARRIER

IMPACT ATTENUATOR

WORK ZONE CRASH CUSHION

WORK ZONE CRASH CUSHION

WORK ZONE CRASH CUSHION

WORK ZONE CRASH CUSHION

TEMPORARY CONCRETE BARRIER

IMPACT ATTENUATOR

730' TANGENT CHANNELIZERS @ 120' SPACING

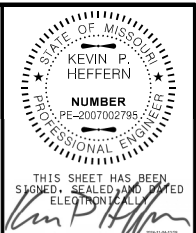
€ CR 211

PC STA 16+53.15

PT STA 18+80.37

20

TRAFFIC CONTROL
COUNTY ROAD 211
PHASE 6
SHEET 23 OF 56



DATE PREPARED	11/4/2024		
ROUTE	I-70	STATE	MO
DISTRICT	KC	SHEET NO.	37
COUNTY	SALINE		
JOB NO.	JST0016B		
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			

DATE	DESCRIPTION

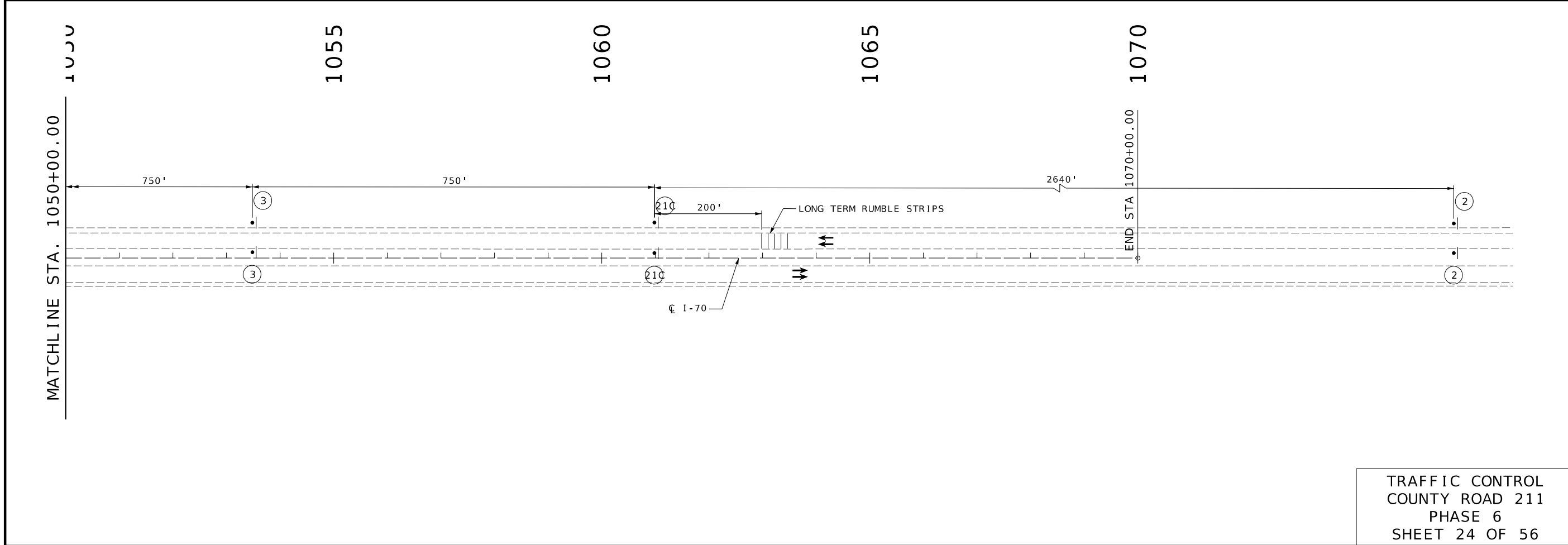
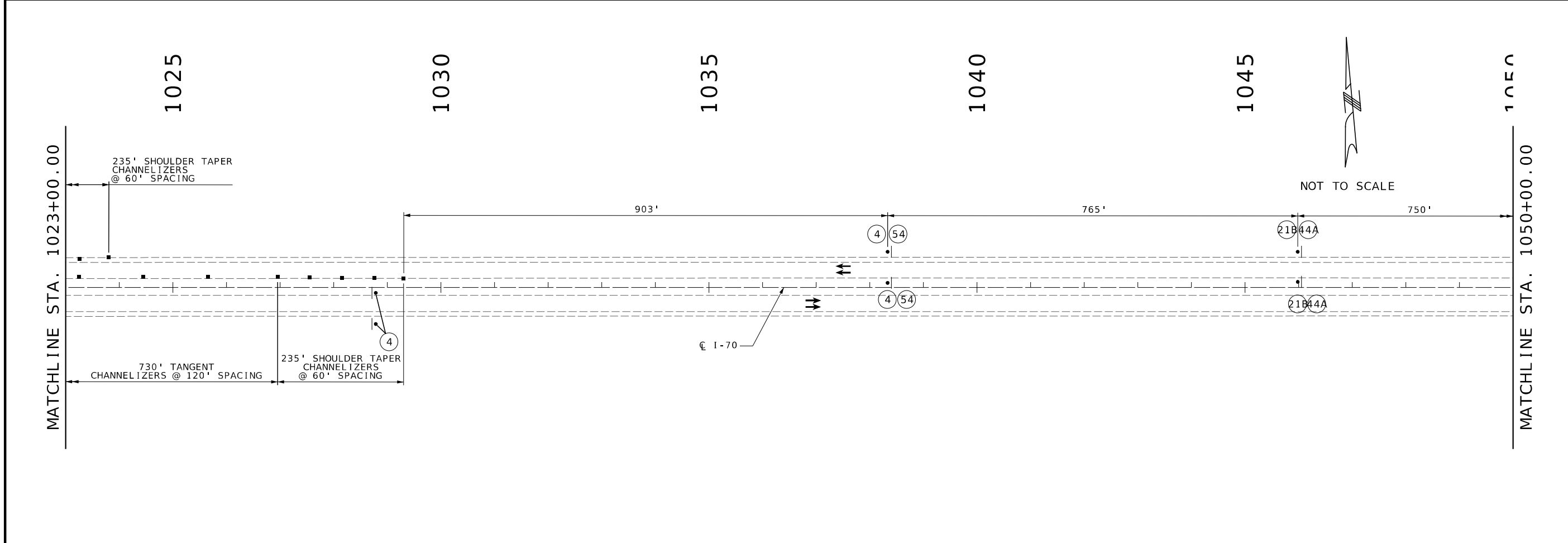
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165
Bmcd Project No. 171819



TRAFFIC CONTROL
 COUNTY ROAD 211
 PHASE 6
 SHEET 24 OF 56

STATE OF MISSOURI
 KEVIN P. HEFFERN
 NUMBER
 PE-2007002795
 PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN
 SIGNED, SEALED AND DATED
 ELECTRONICALLY

DATE PREPARED 11/4/2024	
ROUTE I-70	STATE MO
DISTRICT KC	SHEET NO. 38
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE

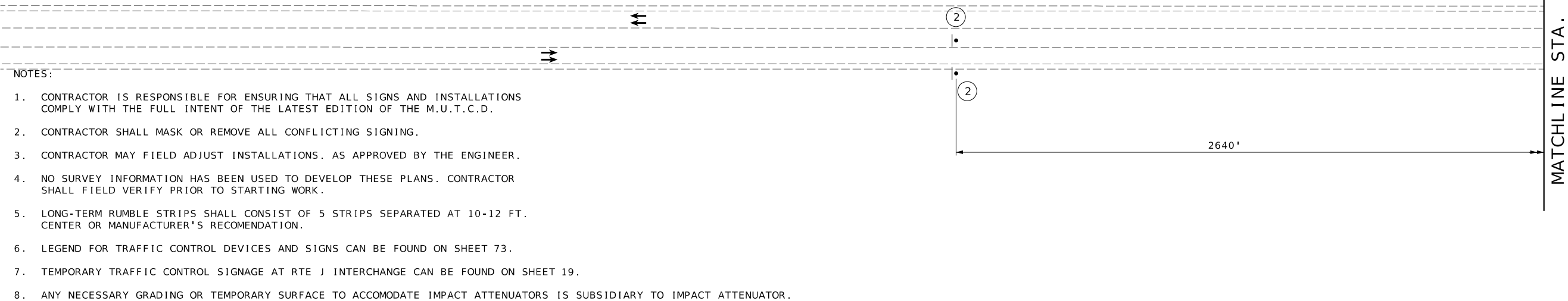
DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

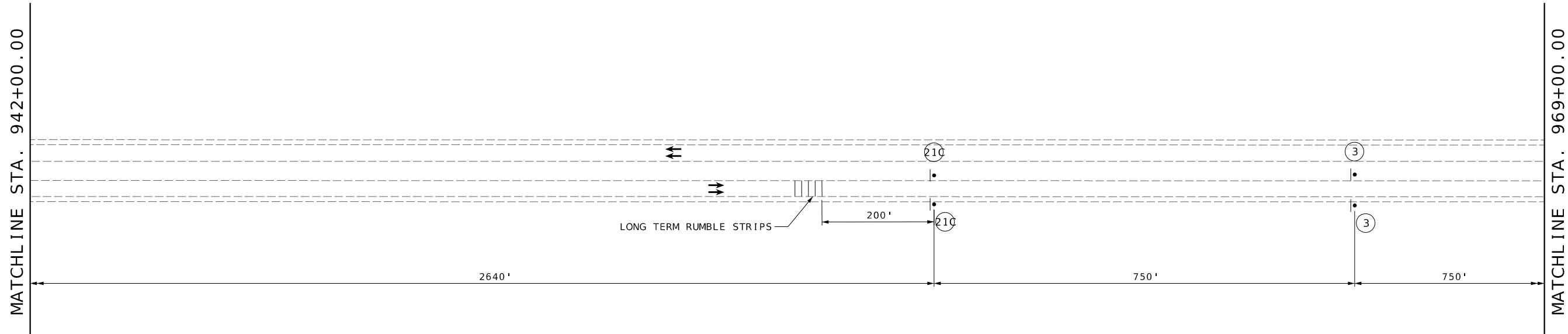
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 BMcD Project No. 171819

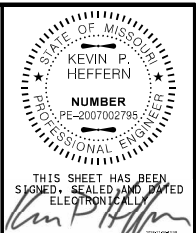
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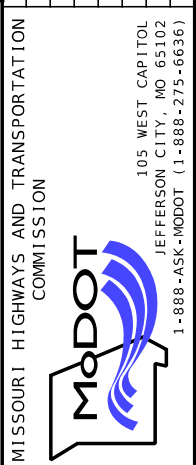


TRAFFIC CONTROL
 COUNTY ROAD 211
 PHASE 7
 SHEET 25 OF 56



DATE PREPARED 11/4/2024	
ROUTE I-70	STATE MO
DISTRICT KC	SHEET NO. 39
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION



Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 BMcD Project No. 171819

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MATCHLINE STA. 969+00.00

980

985

990

995

START STA 980+00.00

NOT TO SCALE

750'

765'

883'

4

21A44A

21A44A

4 54

4 54

235' SHOULDER TAPER CHANNELIZERS @ 60' SPACING

730' MERGE TAPER CHANNELIZERS @ 60' SPACING

MATCHLINE STA. 996+00.00

1000

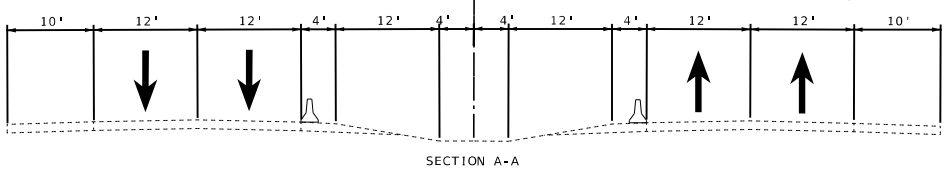
1005

1010

1015

1020

MATCHLINE STA. 1023+00.00



IMPACT ATTENUATOR

IMPACT ATTENUATOR

TEMPORARY CONCRETE BARRIER

IMPACT ATTENUATOR

WORK ZONE CRASH CUSHION

TEMPORARY CONCRETE BARRIER

IMPACT ATTENUATOR

730' TANGENT CHANNELIZERS @ 60' SPACING

€ I-70

TEMPORARY CONCRETE BARRIER

WORK ZONE CRASH CUSHION

€ CR 211

PC STA 16+53.15

PT STA 18+80.37

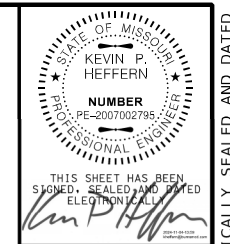
TEMPORARY CONCRETE BARRIER

€ I-70

730' MERGE TAPER CHANNELIZERS @ 60' SPACING

20

TRAFFIC CONTROL
COUNTY ROAD 211
PHASE 7
SHEET 26 OF 56



DATE PREPARED 11/4/2024	
ROUTE I-70	STATE MO
DISTRICT KC	SHEET NO. 40
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

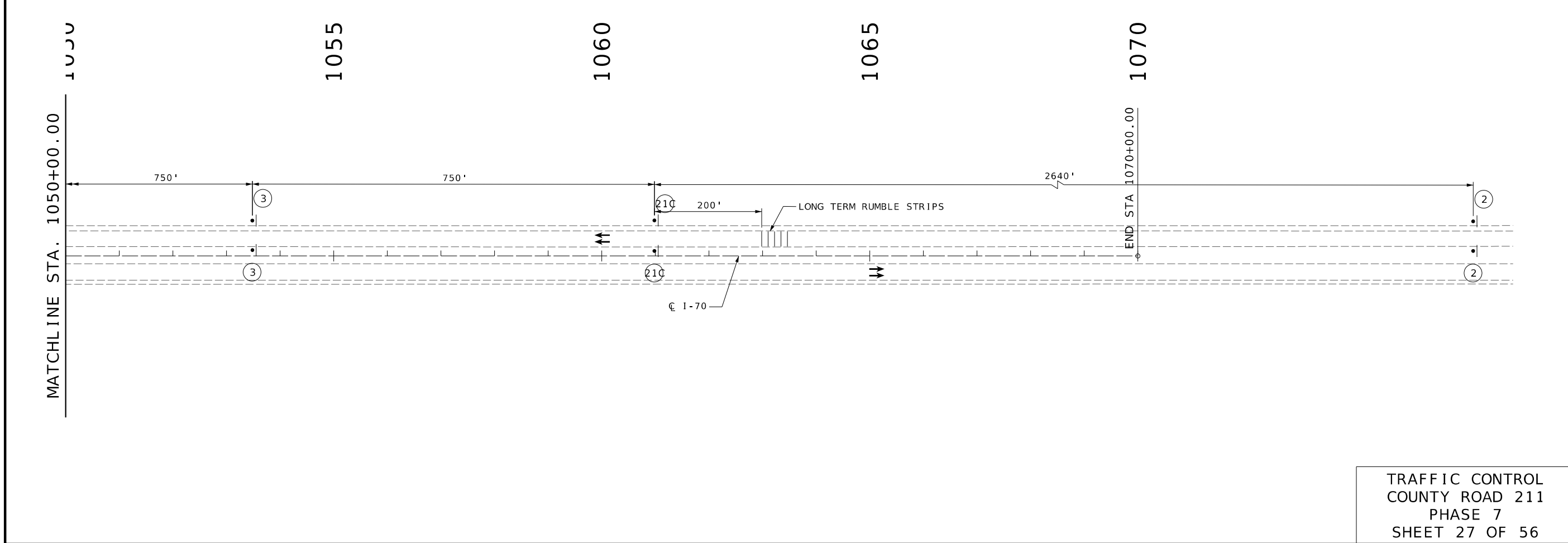
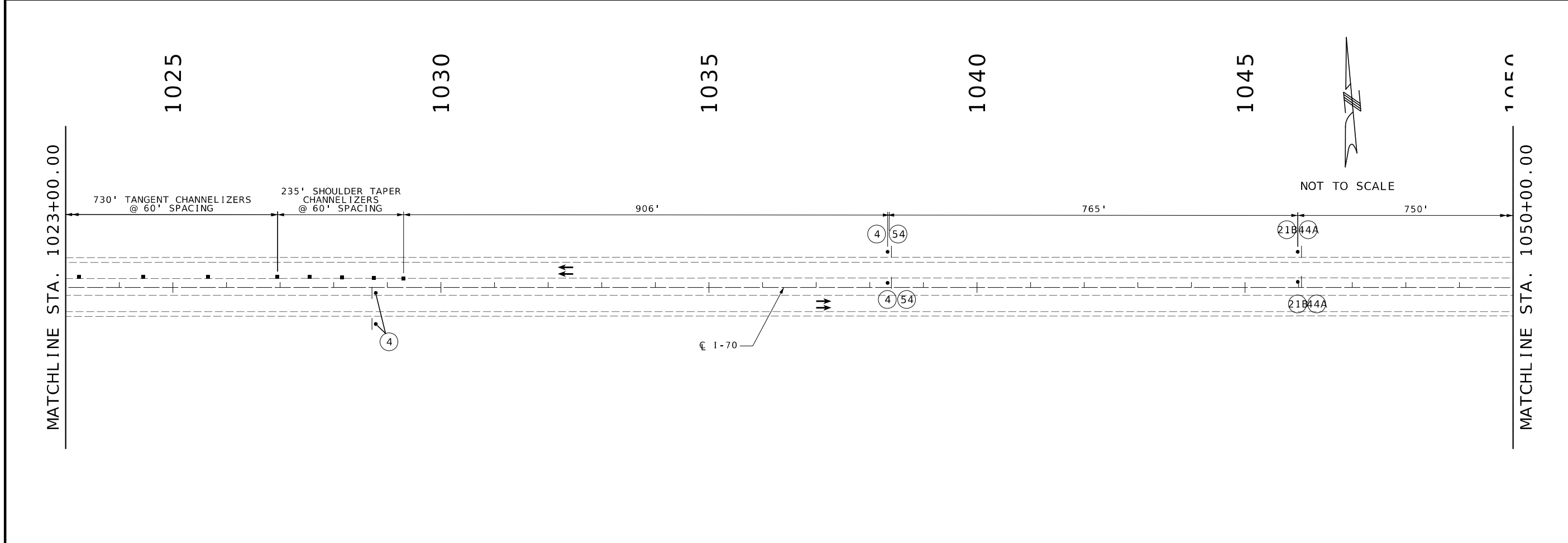
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

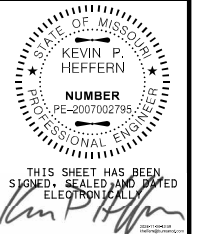
Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165
Bmcd Project No. 171819



TRAFFIC CONTROL
 COUNTY ROAD 211
 PHASE 7
 SHEET 27 OF 56



THIS SHEET HAS BEEN
 SIGNED, SEALED AND DATED
 ELECTRONICALLY

DATE PREPARED
 11/4/2024

ROUTE 1-70	STATE MO
DISTRICT KC	SHEET NO. 41

COUNTY
 SALINE

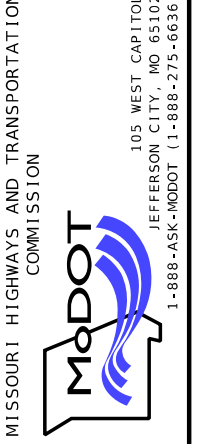
JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION



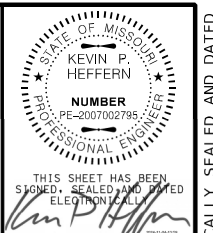
Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400

Certificate of Authority
 No. : 000165

BMcD Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED: 11/4/2024

ROUTE: I-70 STATE: MO

DISTRICT: KC SHEET NO.: 42

COUNTY: SALINE

JOB NO.: JST0016B

CONTRACT ID:

PROJECT NO.:

BRIDGE NO.:

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-273-6636)

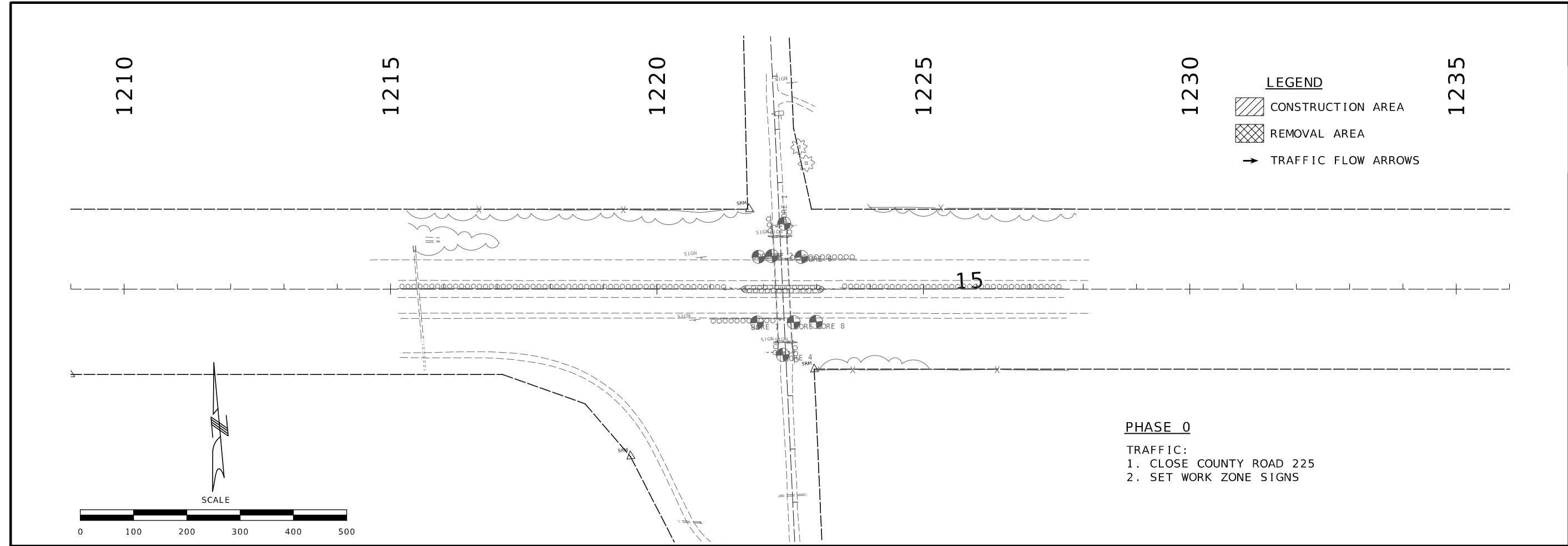
Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165

BMcD Project No. 171819

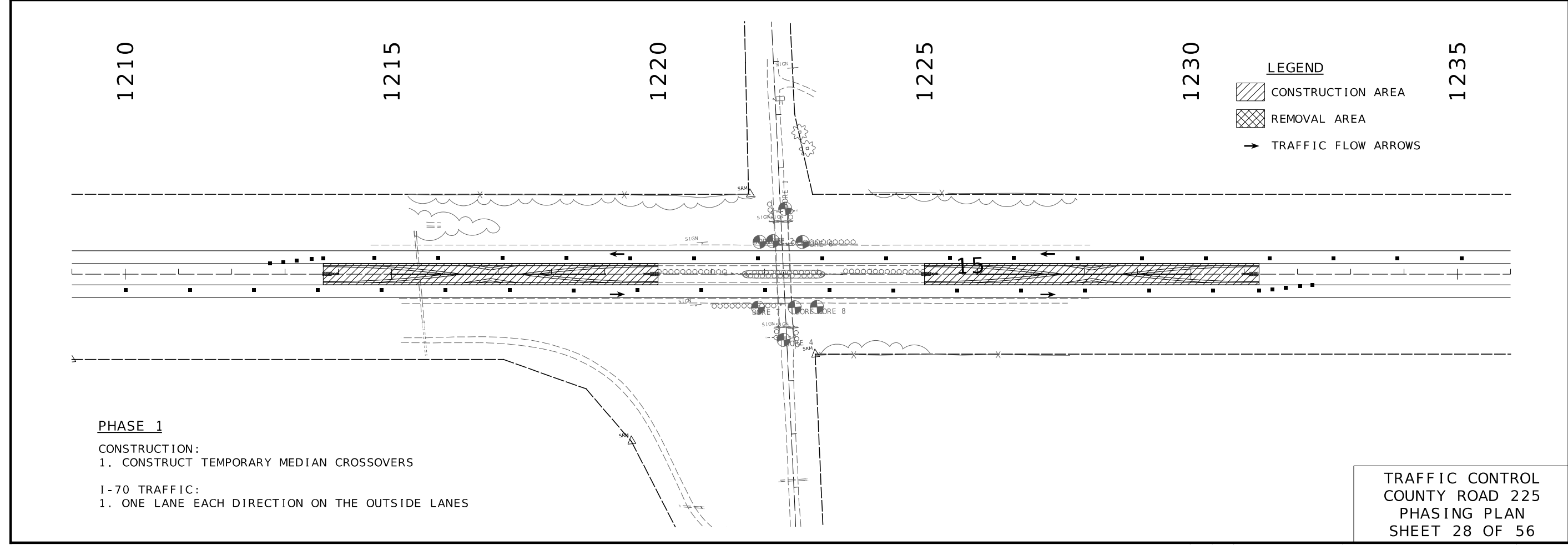
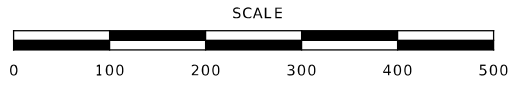
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



PHASE 0

TRAFFIC:

1. CLOSE COUNTY ROAD 225
2. SET WORK ZONE SIGNS



PHASE 1

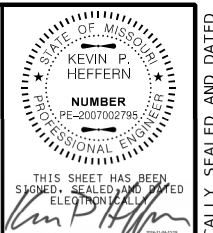
CONSTRUCTION:

1. CONSTRUCT TEMPORARY MEDIAN CROSSOVERS

I-70 TRAFFIC:

1. ONE LANE EACH DIRECTION ON THE OUTSIDE LANES

TRAFFIC CONTROL
COUNTY ROAD 225
PHASING PLAN
SHEET 28 OF 56



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 11/4/2024

ROUTE: I-70 STATE: MO

DISTRICT: KC SHEET NO.: 43

COUNTY: SALINE

JOB NO.: JST0016B

CONTRACT ID:

PROJECT NO.:

BRIDGE NO.:

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

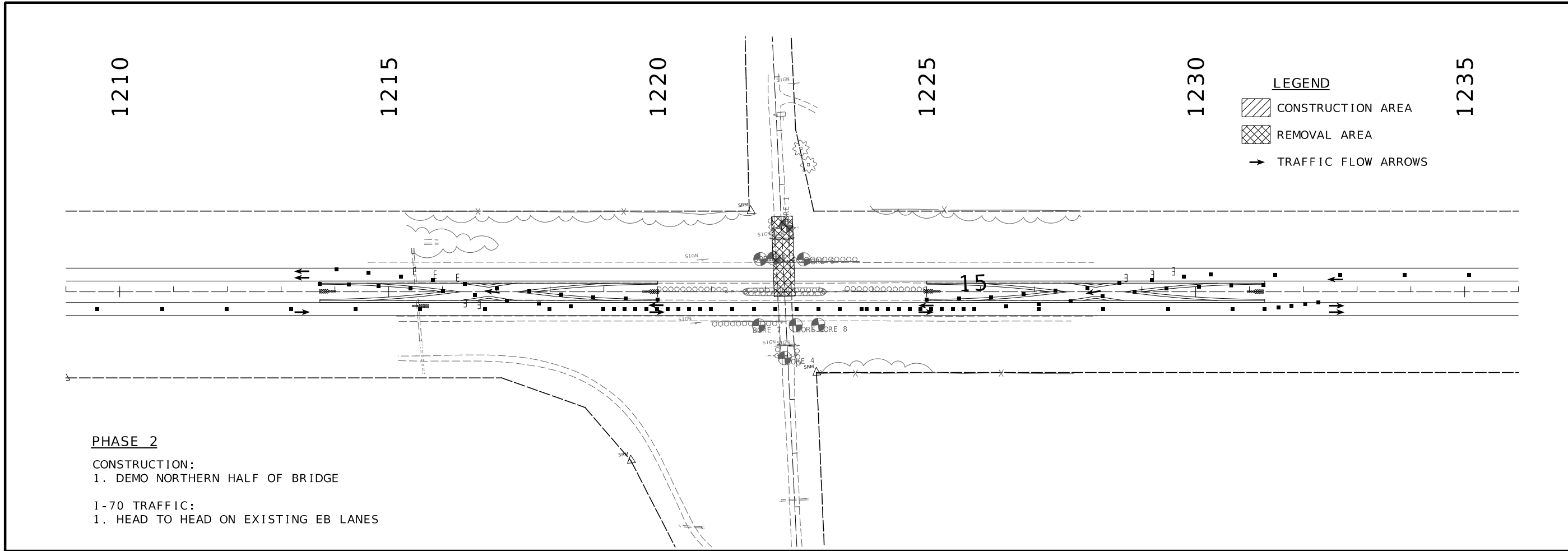
Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165

BMcD Project No. 171819

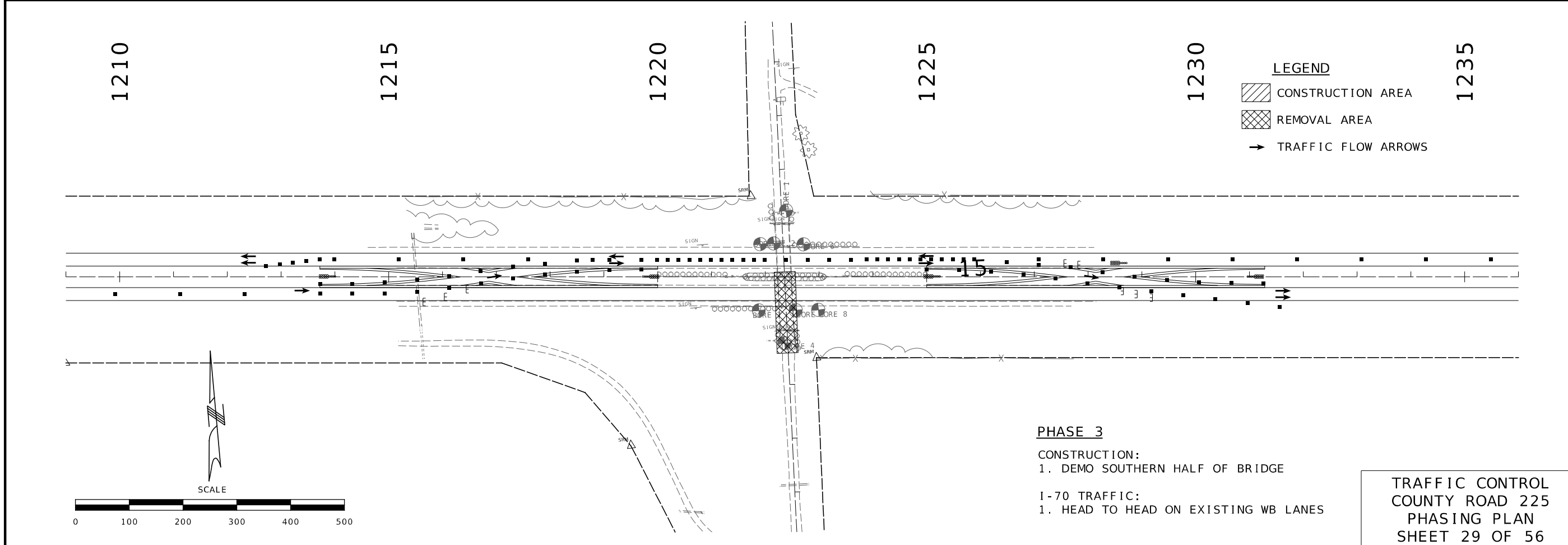
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



PHASE 2

CONSTRUCTION:
1. DEMO NORTHERN HALF OF BRIDGE

I-70 TRAFFIC:
1. HEAD TO HEAD ON EXISTING EB LANES

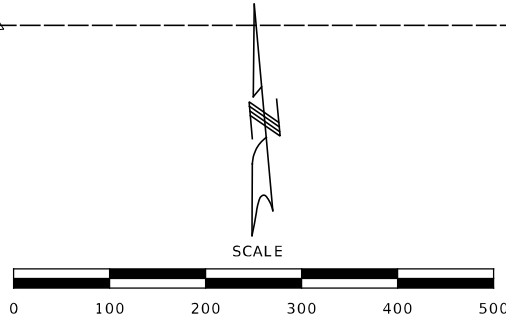


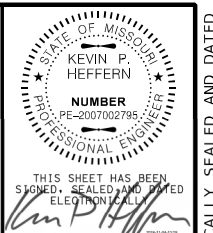
PHASE 3

CONSTRUCTION:
1. DEMO SOUTHERN HALF OF BRIDGE

I-70 TRAFFIC:
1. HEAD TO HEAD ON EXISTING WB LANES

TRAFFIC CONTROL
COUNTY ROAD 225
PHASING PLAN
SHEET 29 OF 56





THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.
 DATE PREPARED: 11/4/2024
 ROUTE: I-70 STATE: MO
 DISTRICT: KC SHEET NO.: 44

COUNTY: SALINE
 JOB NO.: JST0016B
 CONTRACT ID:

PROJECT NO.:
 BRIDGE NO.:

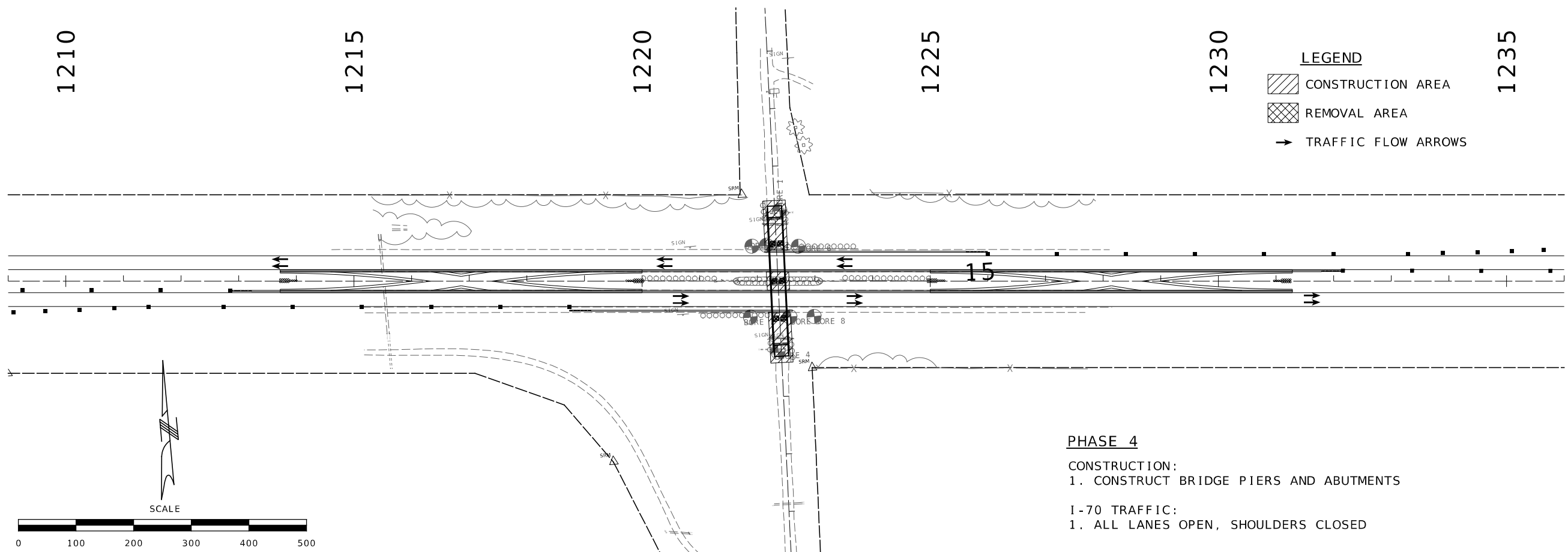
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

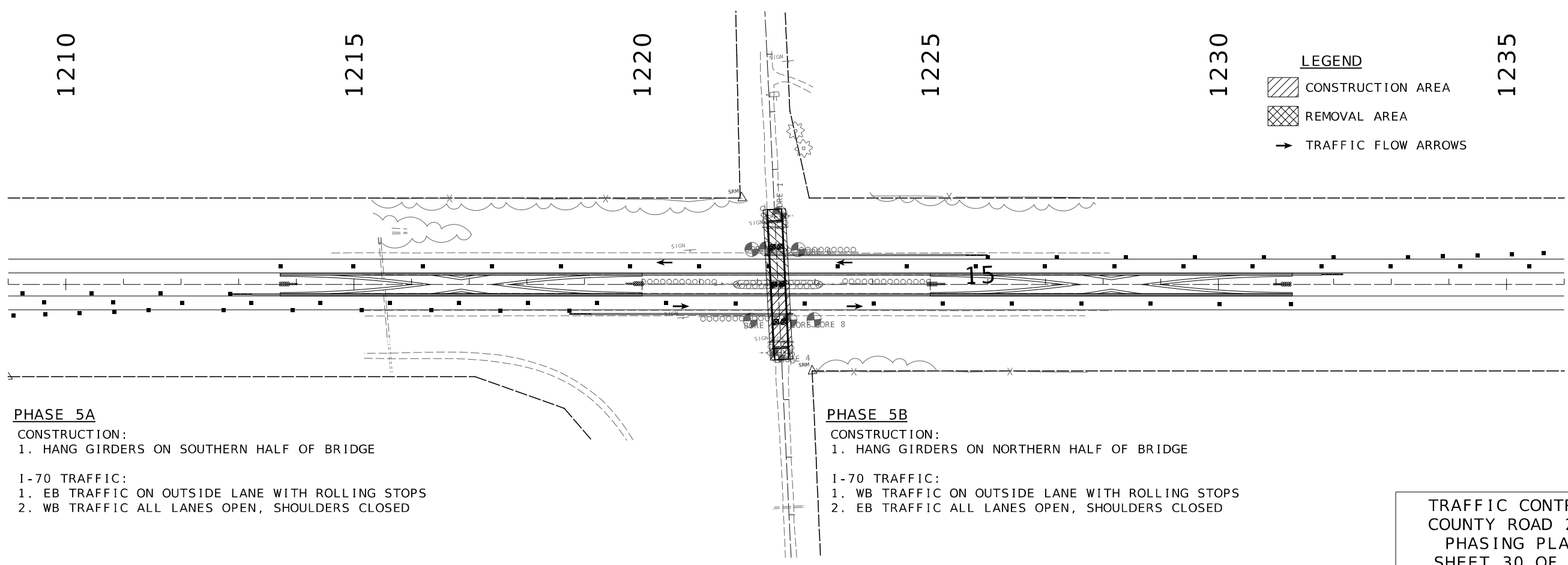
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway Kansas City, Missouri 64114 816-333-9400
 Certificate of Authority No. : 000165
 Bldg Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



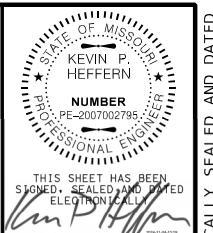
PHASE 4
 CONSTRUCTION:
 1. CONSTRUCT BRIDGE PIERS AND ABUTMENTS
 I-70 TRAFFIC:
 1. ALL LANES OPEN, SHOULDERS CLOSED



PHASE 5A
 CONSTRUCTION:
 1. HANG GIRDERS ON SOUTHERN HALF OF BRIDGE
 I-70 TRAFFIC:
 1. EB TRAFFIC ON OUTSIDE LANE WITH ROLLING STOPS
 2. WB TRAFFIC ALL LANES OPEN, SHOULDERS CLOSED

PHASE 5B
 CONSTRUCTION:
 1. HANG GIRDERS ON NORTHERN HALF OF BRIDGE
 I-70 TRAFFIC:
 1. WB TRAFFIC ON OUTSIDE LANE WITH ROLLING STOPS
 2. EB TRAFFIC ALL LANES OPEN, SHOULDERS CLOSED

TRAFFIC CONTROL
 COUNTY ROAD 225
 PHASING PLAN
 SHEET 30 OF 56



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 11/4/2024

ROUTE: I-70 STATE: MO

DISTRICT: KC SHEET NO.: 45

COUNTY: SALINE

JOB NO.: JST0016B

CONTRACT ID:

PROJECT NO.:

BRIDGE NO.:

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

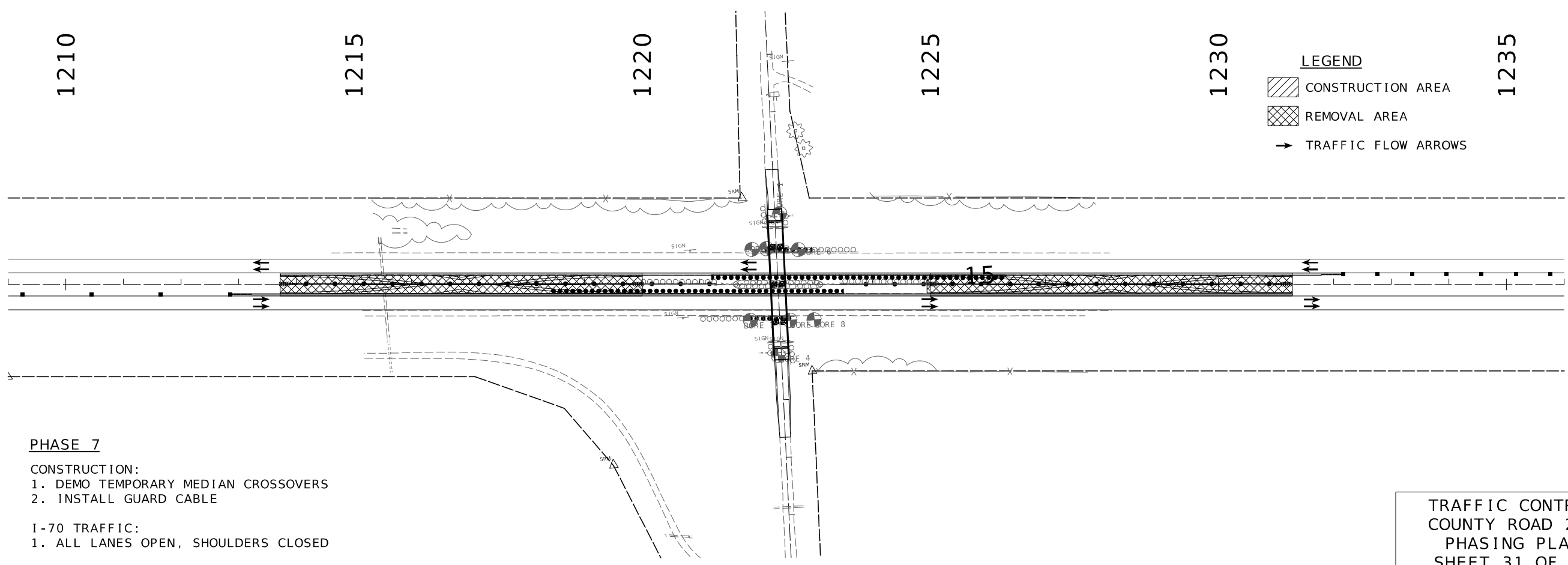
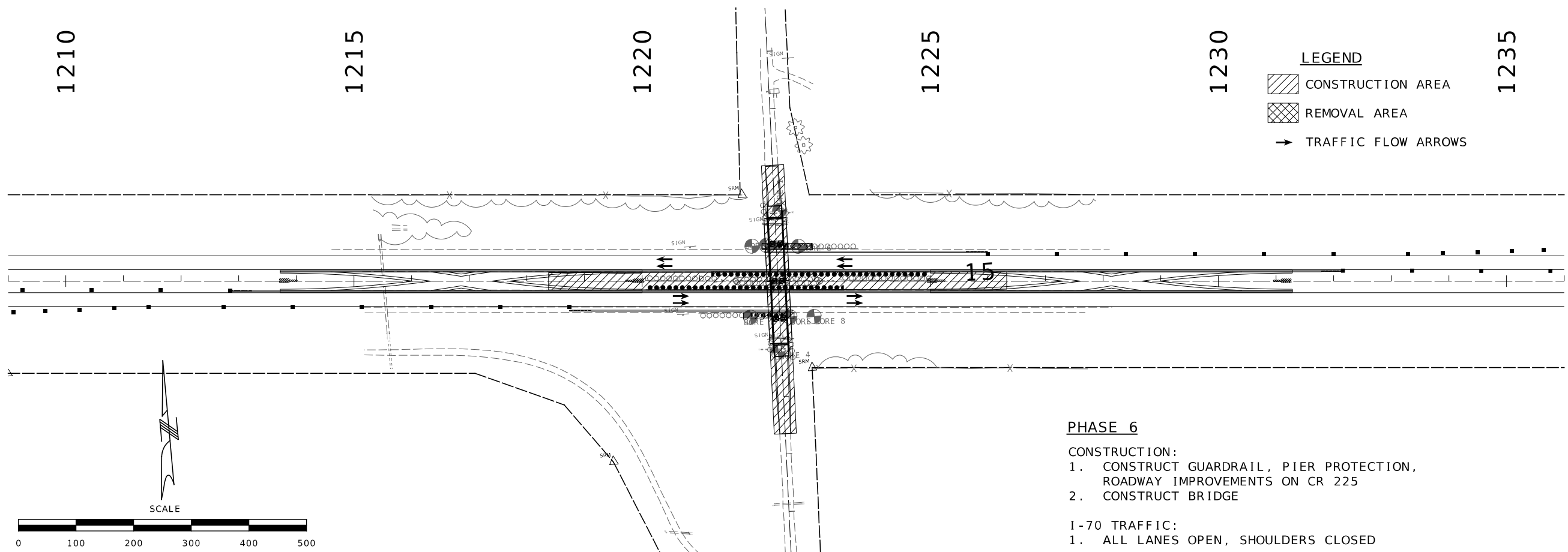
105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

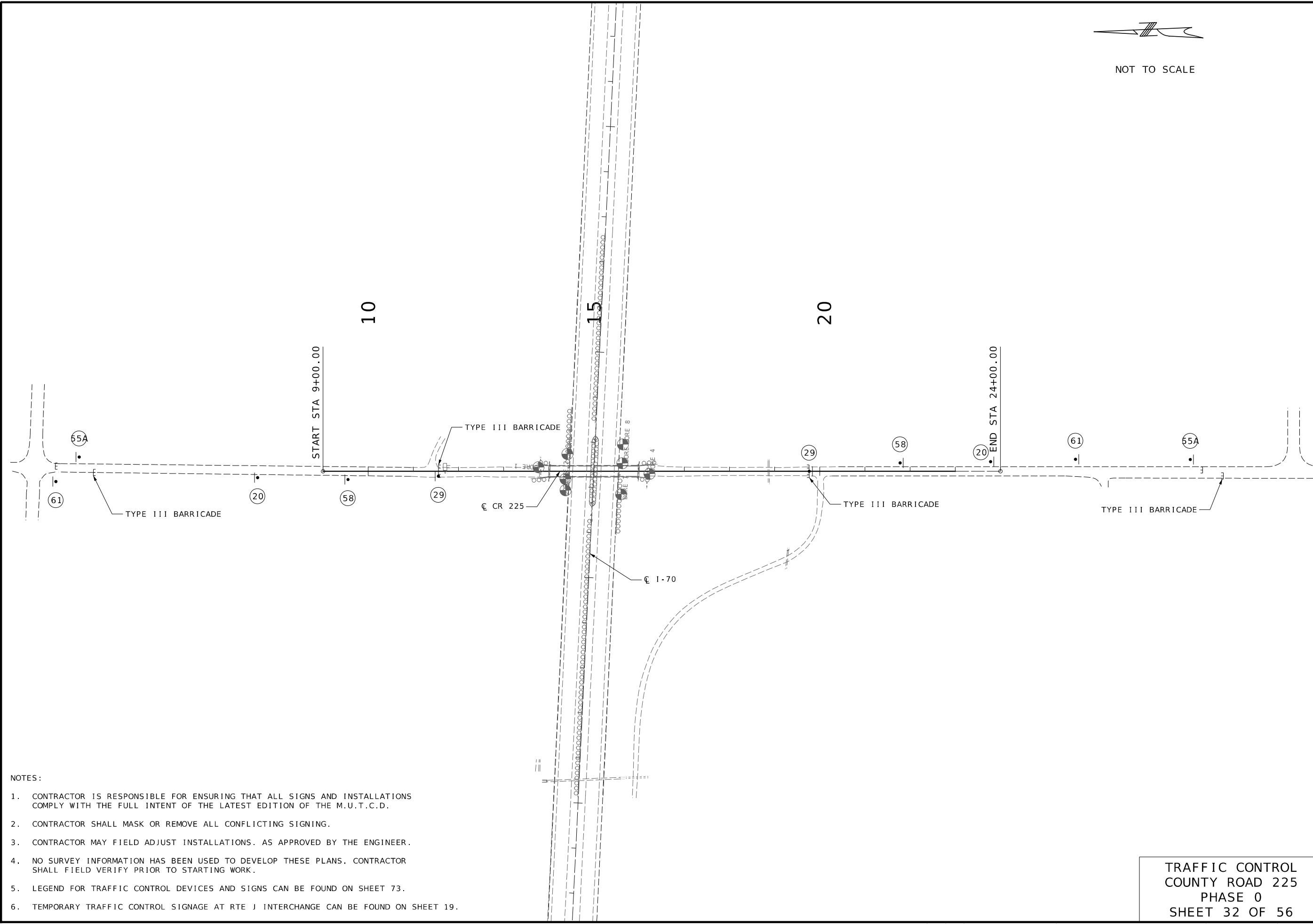
Certificate of Authority
No. : 000165
BMcD Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



TRAFFIC CONTROL
COUNTY ROAD 225
PHASING PLAN
SHEET 31 OF 56

NOT TO SCALE



- NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGNS AND INSTALLATIONS COMPLY WITH THE FULL INTENT OF THE LATEST EDITION OF THE M.U.T.C.D.
 2. CONTRACTOR SHALL MASK OR REMOVE ALL CONFLICTING SIGNING.
 3. CONTRACTOR MAY FIELD ADJUST INSTALLATIONS. AS APPROVED BY THE ENGINEER.
 4. NO SURVEY INFORMATION HAS BEEN USED TO DEVELOP THESE PLANS. CONTRACTOR SHALL FIELD VERIFY PRIOR TO STARTING WORK.
 5. LEGEND FOR TRAFFIC CONTROL DEVICES AND SIGNS CAN BE FOUND ON SHEET 73.
 6. TEMPORARY TRAFFIC CONTROL SIGNAGE AT RTE J INTERCHANGE CAN BE FOUND ON SHEET 19.

TRAFFIC CONTROL
 COUNTY ROAD 225
 PHASE 0
 SHEET 32 OF 56



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 11/4/2024	
ROUTE I-70	STATE MO
DISTRICT KC	SHEET NO. 46
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400

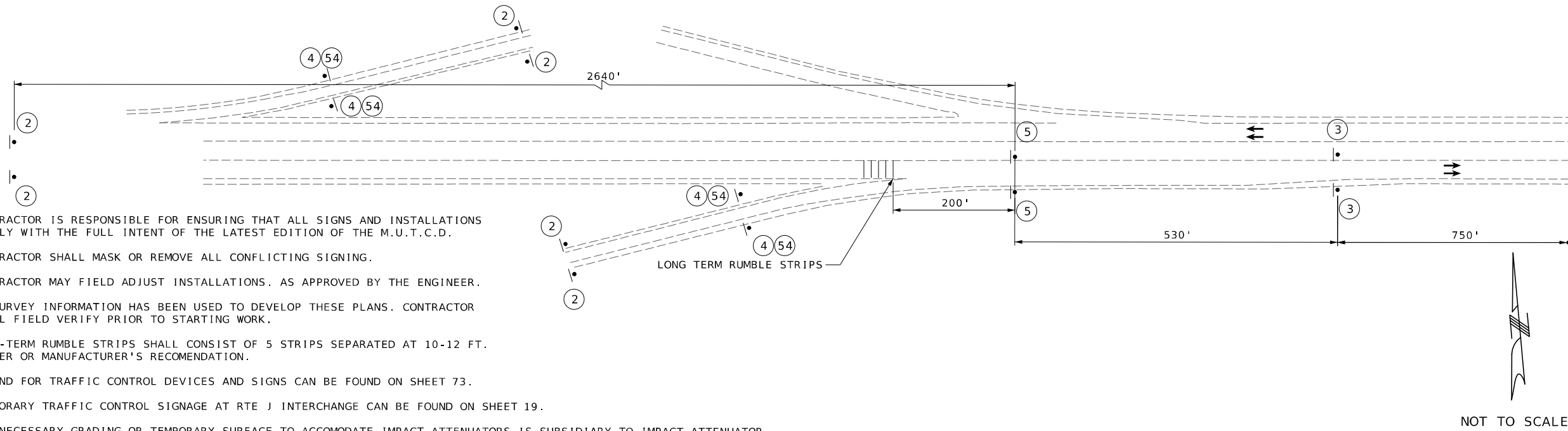
Certificate of Authority
 No. : 000165

BMcD Project No. 171819

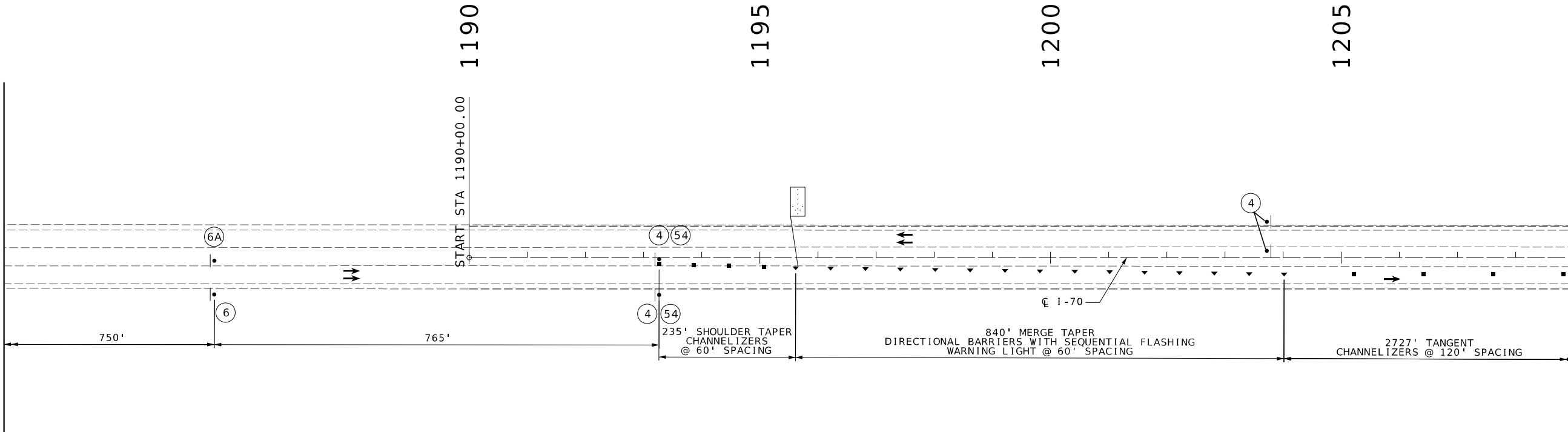
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGNS AND INSTALLATIONS COMPLY WITH THE FULL INTENT OF THE LATEST EDITION OF THE M.U.T.C.D.
2. CONTRACTOR SHALL MASK OR REMOVE ALL CONFLICTING SIGNING.
3. CONTRACTOR MAY FIELD ADJUST INSTALLATIONS. AS APPROVED BY THE ENGINEER.
4. NO SURVEY INFORMATION HAS BEEN USED TO DEVELOP THESE PLANS. CONTRACTOR SHALL FIELD VERIFY PRIOR TO STARTING WORK.
5. LONG-TERM RUMBLE STRIPS SHALL CONSIST OF 5 STRIPS SEPARATED AT 10-12 FT. CENTER OR MANUFACTURER'S RECOMMENDATION.
6. LEGEND FOR TRAFFIC CONTROL DEVICES AND SIGNS CAN BE FOUND ON SHEET 73.
7. TEMPORARY TRAFFIC CONTROL SIGNAGE AT RTE J INTERCHANGE CAN BE FOUND ON SHEET 19.
8. ANY NECESSARY GRADING OR TEMPORARY SURFACE TO ACCOMODATE IMPACT ATTENUATORS IS SUBSIDIARY TO IMPACT ATTENUATOR.



MATCHLINE STA. 1182+00.00



MATCHLINE STA. 1209+00.00

TRAFFIC CONTROL
COUNTY ROAD 225
PHASE 1
SHEET 33 OF 56



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 11/4/2024	
ROUTE I-70	STATE MO
DISTRICT KC	SHEET NO. 47
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

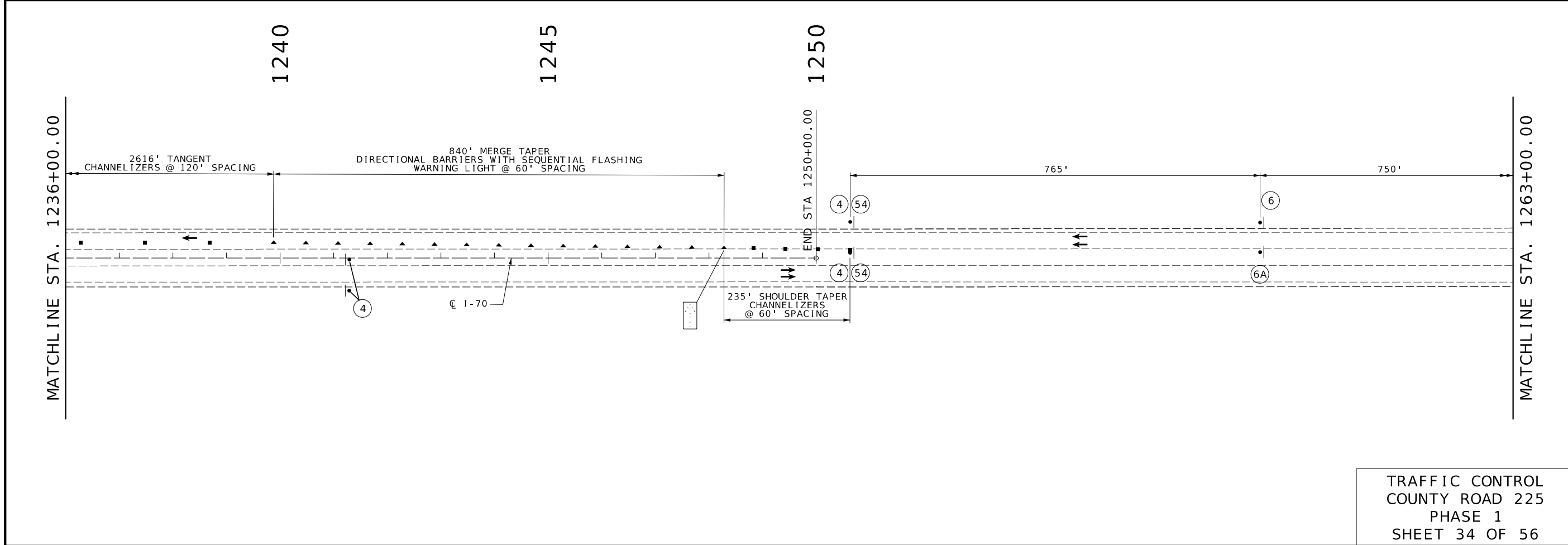
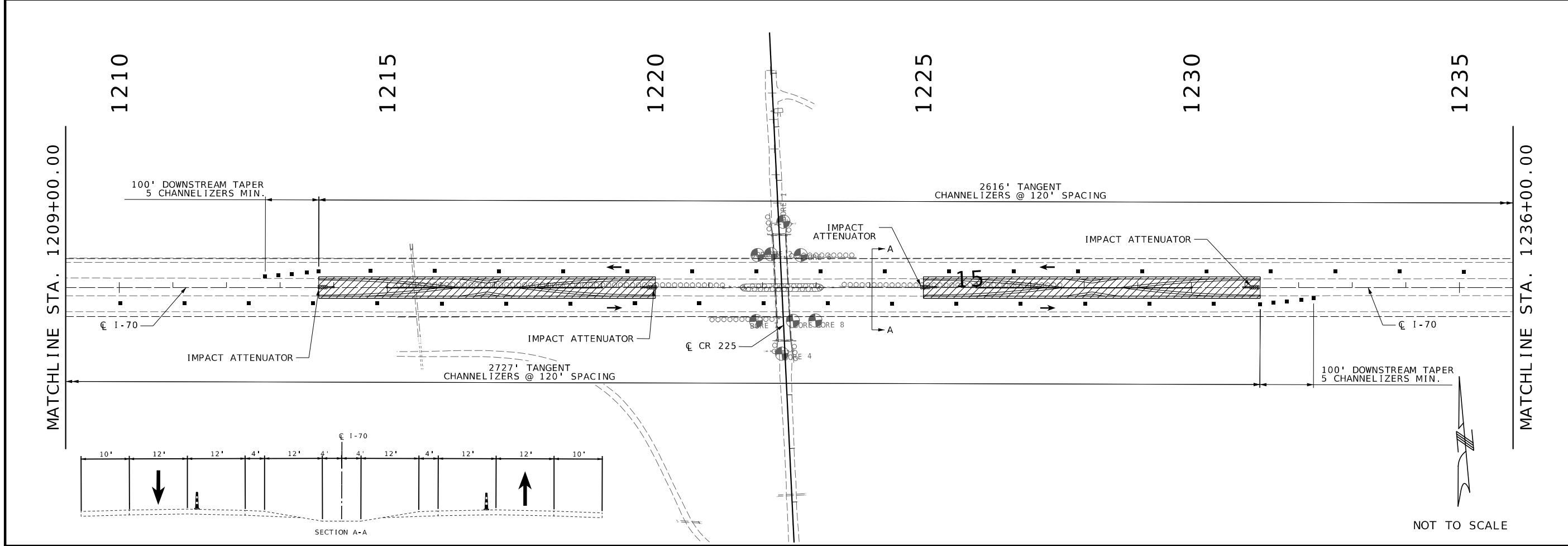
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

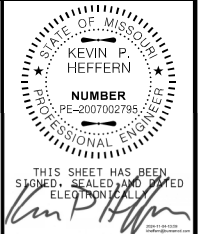
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



TRAFFIC CONTROL
 COUNTY ROAD 225
 PHASE 1
 SHEET 34 OF 56



THIS SHEET HAS BEEN
 SIGNED, SEALED AND DATED
 ELECTRONICALLY

DATE PREPARED
 11/4/2024

ROUTE STATE
 I-70 MO

DISTRICT SHEET NO.
 KC 48

COUNTY
 SALINE

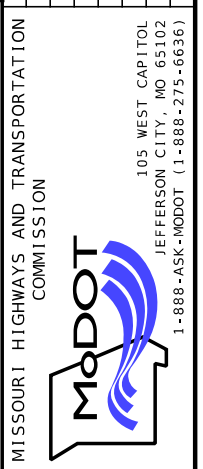
JOB NO.
 JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION



Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 Bmcd Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MATCHLINE STA. 1263+00.00

750'

750'

2640'

MATCHLINE STA. 1290+00.00

3

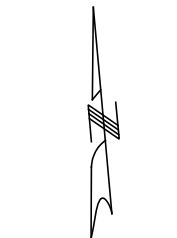
3

5

5

200'

LONG TERM RUMBLE STRIPS



NOT TO SCALE

MATCHLINE STA. 1290+00.00

2640'

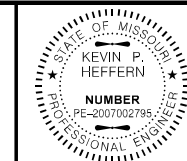
2

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TRAFFIC CONTROL
COUNTY ROAD 225
PHASE 1
SHEET 35 OF 56



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY

DATE PREPARED

11/4/2024

ROUTE STATE

I - 70 MO

DISTRICT SHEET NO.

KC 49

COUNTY

SALINE

JOB NO.

JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165

BMcD Project No. 171819

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 11/4/2024	
ROUTE I-70	STATE MO
DISTRICT KC	SHEET NO. 50
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

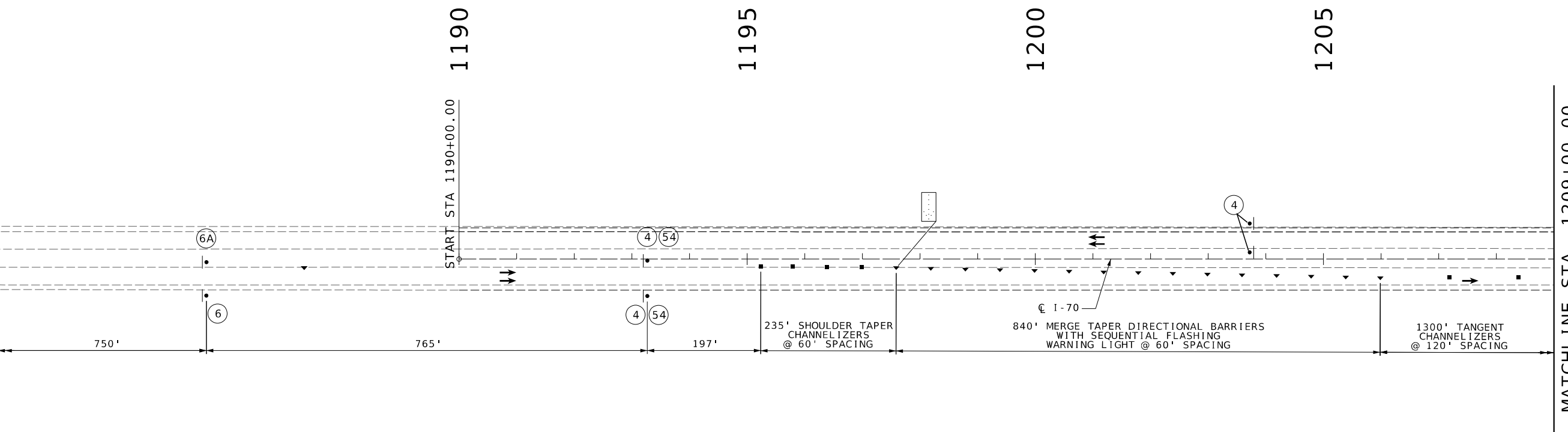
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

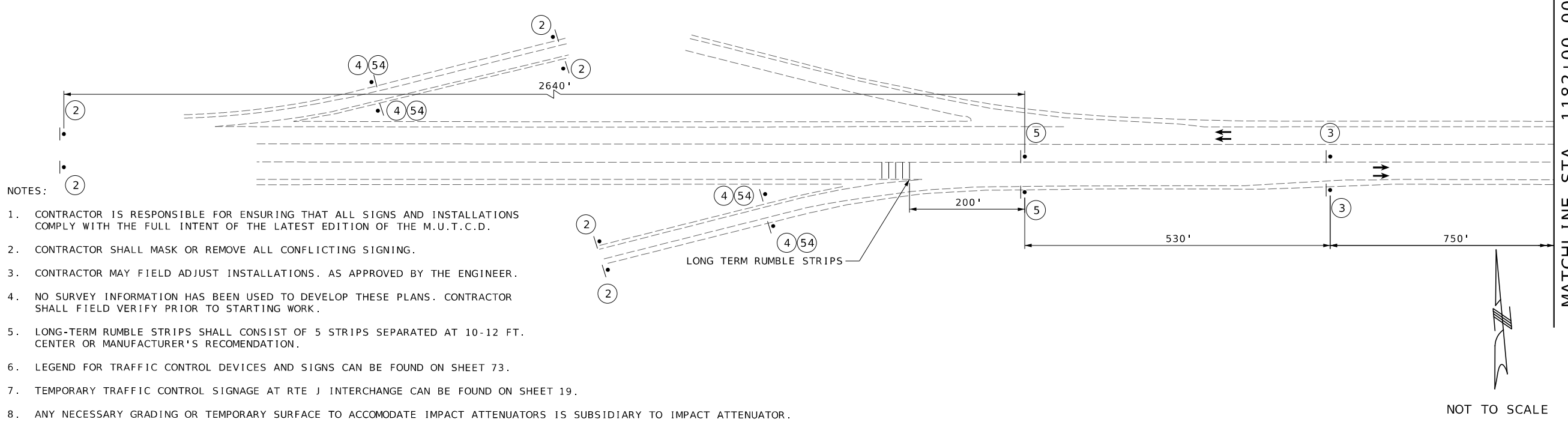
Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 171819

TRAFFIC CONTROL
COUNTY ROAD 225
PHASE 2
SHEET 36 OF 56

MATCHLINE STA. 1182+00.00



MATCHLINE STA. 1209+00.00



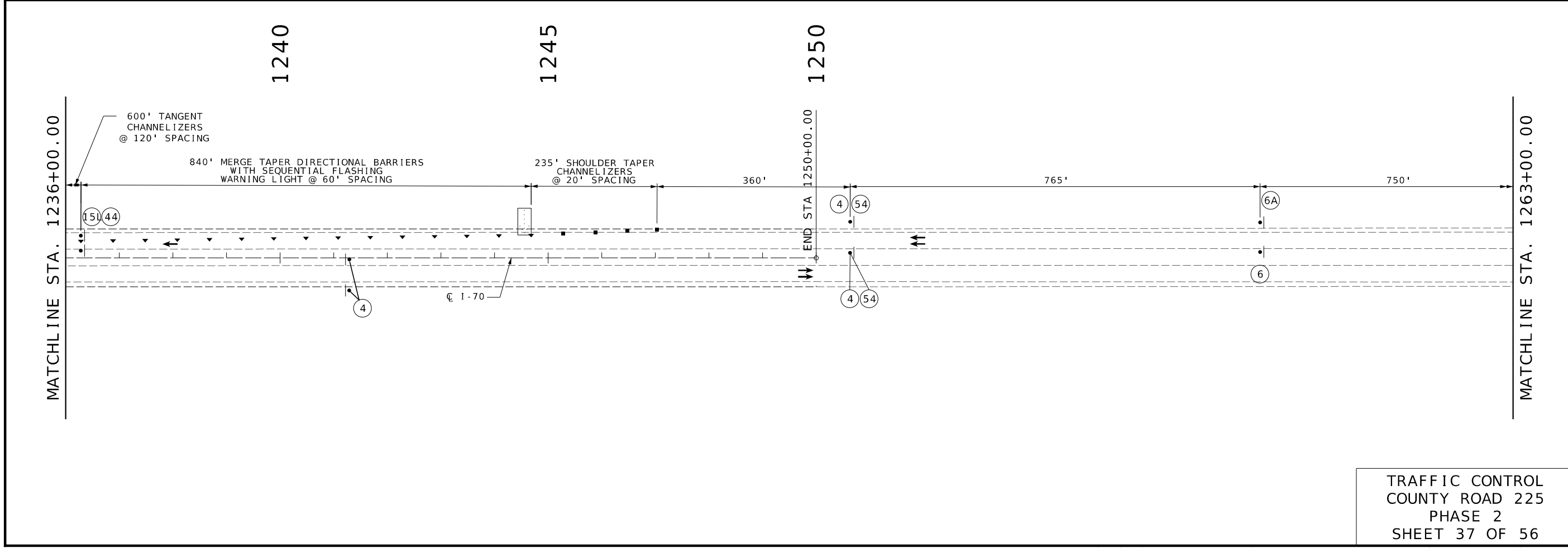
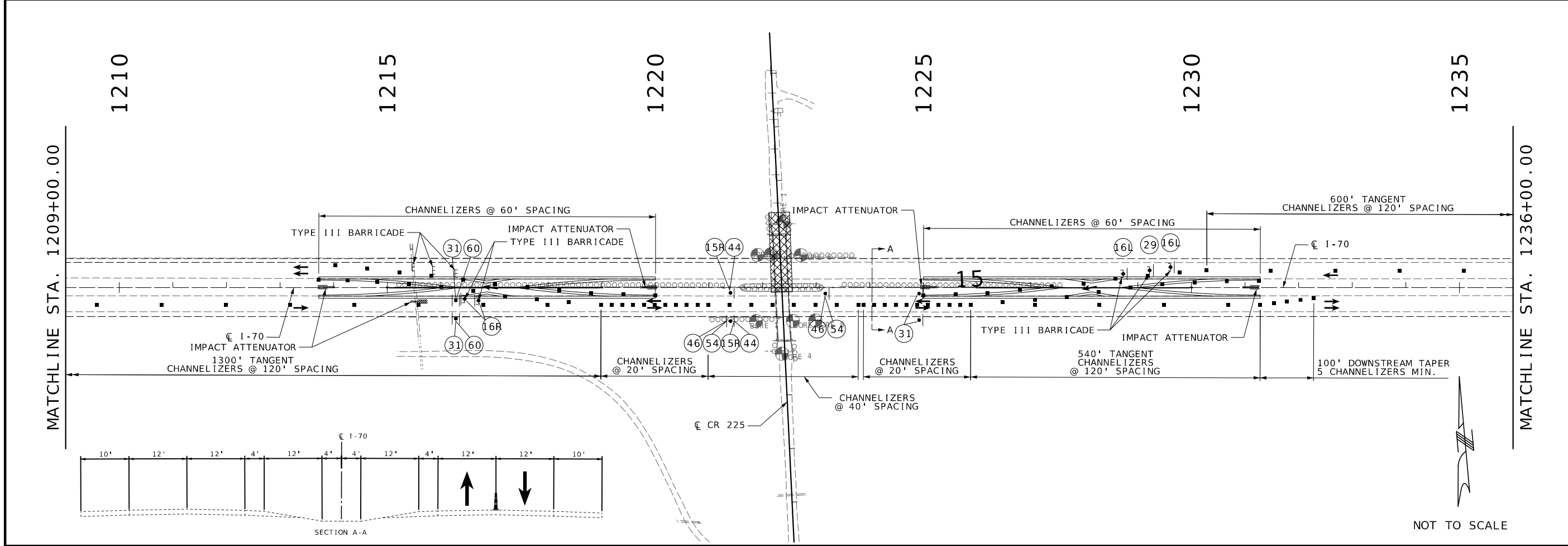
MATCHLINE STA. 1182+00.00

NOTES:

- CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGNS AND INSTALLATIONS COMPLY WITH THE FULL INTENT OF THE LATEST EDITION OF THE M.U.T.C.D.
- CONTRACTOR SHALL MASK OR REMOVE ALL CONFLICTING SIGNING.
- CONTRACTOR MAY FIELD ADJUST INSTALLATIONS. AS APPROVED BY THE ENGINEER.
- NO SURVEY INFORMATION HAS BEEN USED TO DEVELOP THESE PLANS. CONTRACTOR SHALL FIELD VERIFY PRIOR TO STARTING WORK.
- LONG-TERM RUMBLE STRIPS SHALL CONSIST OF 5 STRIPS SEPARATED AT 10-12 FT. CENTER OR MANUFACTURER'S RECOMENDATION.
- LEGEND FOR TRAFFIC CONTROL DEVICES AND SIGNS CAN BE FOUND ON SHEET 73.
- TEMPORARY TRAFFIC CONTROL SIGNAGE AT RTE J INTERCHANGE CAN BE FOUND ON SHEET 19.
- ANY NECESSARY GRADING OR TEMPORARY SURFACE TO ACCOMODATE IMPACT ATTENUATORS IS SUBSIDIARY TO IMPACT ATTENUATOR.

NOT TO SCALE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



STATE OF MISSOURI
 KEVIN P. HEFFERN
 NUMBER PE-2007002795
 PROFESSIONAL ENGINEER
 THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY
 [Signature]

DATE PREPARED 11/4/2024
 ROUTE 1-70 STATE MO
 DISTRICT KC SHEET NO. 51

COUNTY SALINE
 JOB NO. JST0016B
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 MoDOT
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority No. : 000165
 Bmcd Project No. 171819

TRAFFIC CONTROL
 COUNTY ROAD 225
 PHASE 2
 SHEET 37 OF 56

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MATCHLINE STA. 1290+00.00

2640'

②

②



MATCHLINE STA. 1263+00.00

750'

750'

200'

LONG TERM RUMBLE STRIPS

2640'

③

③

⑤

⑤



NOT TO SCALE



MATCHLINE STA. 1290+00.00

TRAFFIC CONTROL
COUNTY ROAD 225
PHASE 2
SHEET 38 OF 56

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165

BMcD Project No. 171819



MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

DESCRIPTION

DATE

DATE	DESCRIPTION

PROJECT NO.

BRIDGE NO.

CONTRACT ID.

JST0016B

JOB NO.

SALINE

COUNTY

DISTRICT

KC 52

ROUTE

1-70 MO

STATE

DATE PREPARED

11/4/2024

THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY

PROFESSIONAL ENGINEER

NUMBER

PE-2007002795

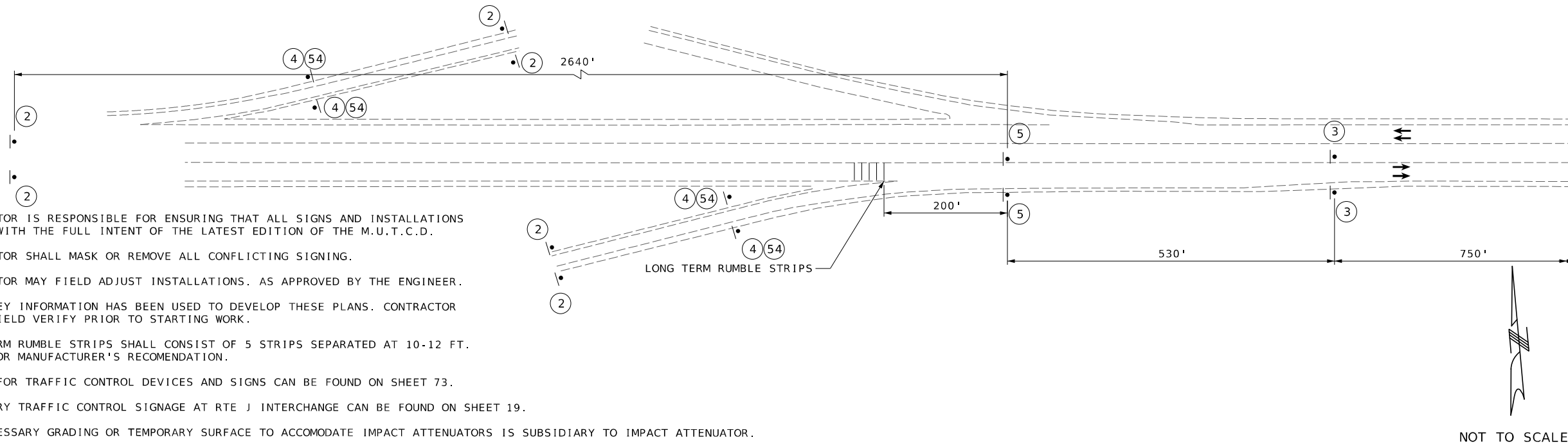
KEVIN P. HEFFERN

STATE OF MISSOURI

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

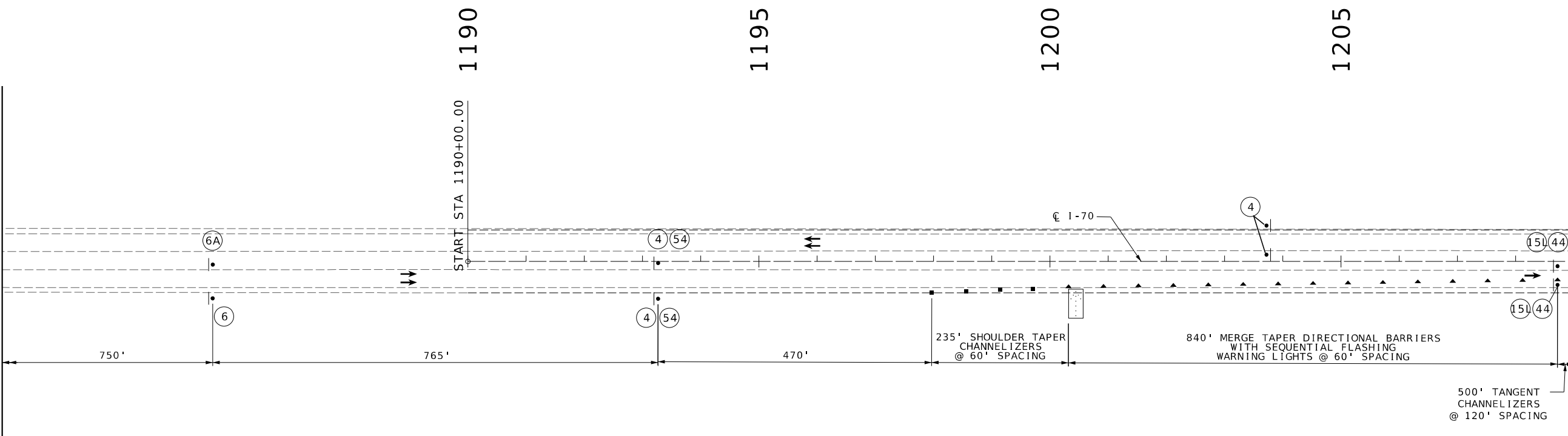
NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGNS AND INSTALLATIONS COMPLY WITH THE FULL INTENT OF THE LATEST EDITION OF THE M.U.T.C.D.
2. CONTRACTOR SHALL MASK OR REMOVE ALL CONFLICTING SIGNING.
3. CONTRACTOR MAY FIELD ADJUST INSTALLATIONS, AS APPROVED BY THE ENGINEER.
4. NO SURVEY INFORMATION HAS BEEN USED TO DEVELOP THESE PLANS. CONTRACTOR SHALL FIELD VERIFY PRIOR TO STARTING WORK.
5. LONG-TERM RUMBLE STRIPS SHALL CONSIST OF 5 STRIPS SEPARATED AT 10-12 FT. CENTER OR MANUFACTURER'S RECOMENDATION.
6. LEGEND FOR TRAFFIC CONTROL DEVICES AND SIGNS CAN BE FOUND ON SHEET 73.
7. TEMPORARY TRAFFIC CONTROL SIGNAGE AT RTE J INTERCHANGE CAN BE FOUND ON SHEET 19.
8. ANY NECESSARY GRADING OR TEMPORARY SURFACE TO ACCOMODATE IMPACT ATTENUATORS IS SUBSIDIARY TO IMPACT ATTENUATOR.

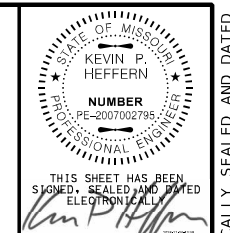


NOT TO SCALE

MATCHLINE STA. 1182+00.00



TRAFFIC CONTROL
COUNTY ROAD 225
PHASE 3
SHEET 39 OF 56



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
11/4/2024

ROUTE I-70	STATE MO
DISTRICT KC	SHEET NO. 53

COUNTY
SALINE

JOB NO.
JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

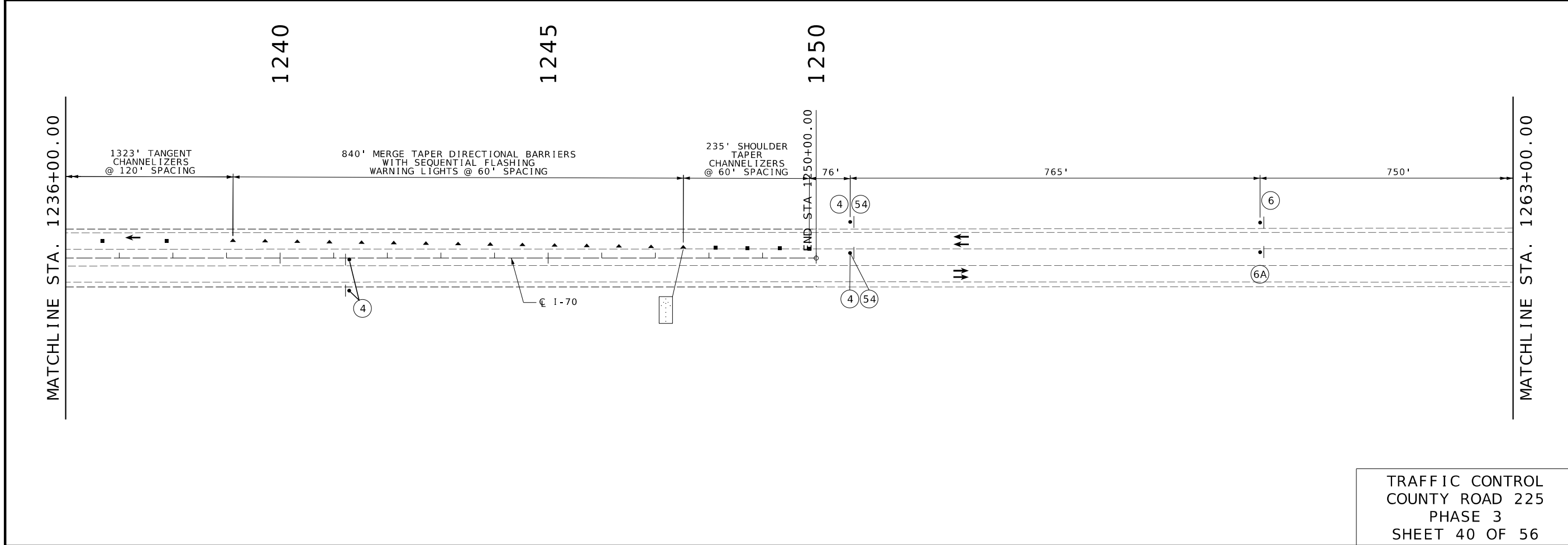
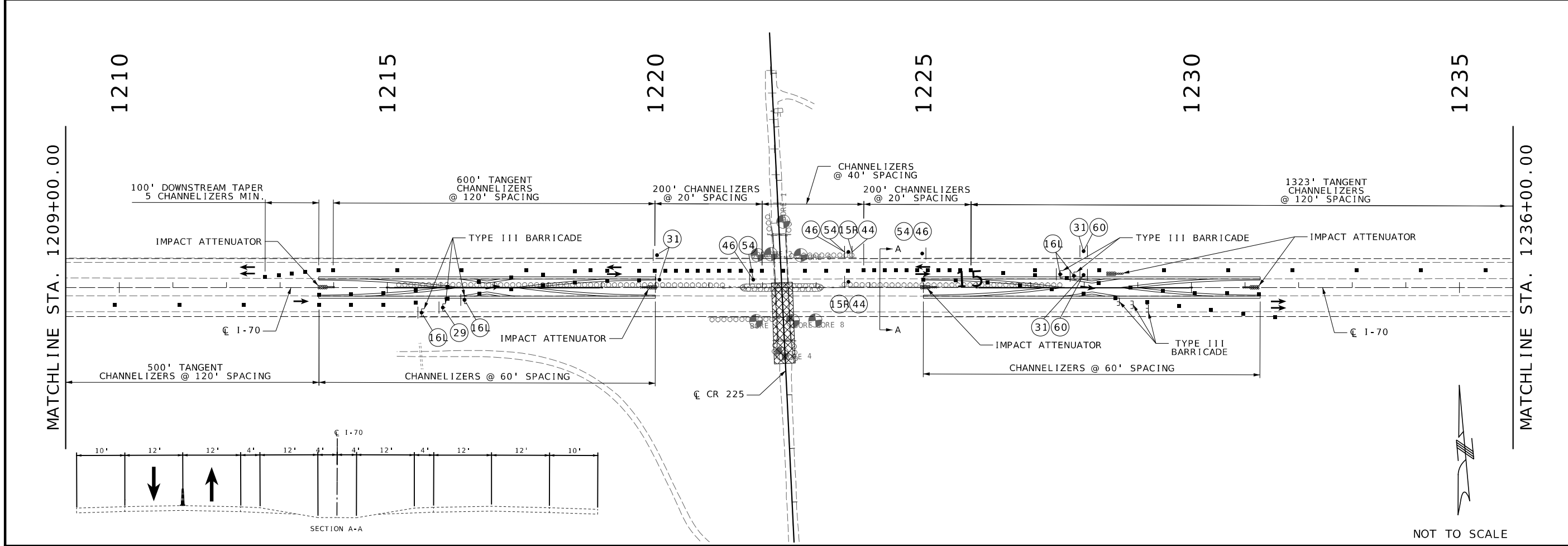
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.

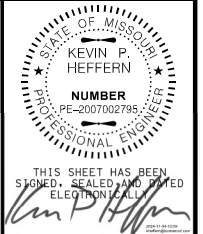
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165
BMcD Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

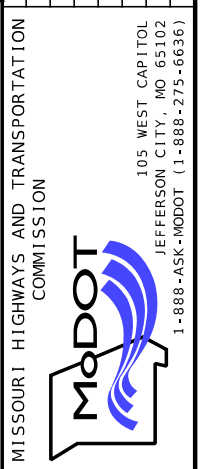


TRAFFIC CONTROL
 COUNTY ROAD 225
 PHASE 3
 SHEET 40 OF 56



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.
 DATE PREPARED: 11/4/2024
 ROUTE: I-70 STATE: MO
 DISTRICT: KC SHEET NO.: 54
 COUNTY: SALINE
 JOB NO.: JST0016B
 CONTRACT ID.:
 PROJECT NO.:
 BRIDGE NO.:

DATE	DESCRIPTION



Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 Bmcd Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MATCHLINE STA. 1290+00.00

2640'

②

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TRAFFIC CONTROL
COUNTY ROAD 225
PHASE 3
SHEET 41 OF 56

BURNS & MCDONNELL Engineering Co., Inc.

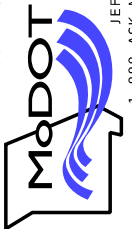
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165

BMcD Project No. 171819



MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

MATCHLINE STA. 1263+00.00

750'

750'

2640'

③

③

⑤

⑤

200'

LONG TERM RUMBLE STRIPS



NOT TO SCALE



MATCHLINE STA. 1290+00.00



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY

DATE PREPARED
11/4/2024

ROUTE STATE

I - 70 MO

DISTRICT SHEET NO.

KC 55

COUNTY

SALINE

JOB NO.

JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
11/4/2024
ROUTE STATE
I-70 MO
DISTRICT SHEET NO.
KC 56

COUNTY
SALINE
JOB NO.
JST0016B
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

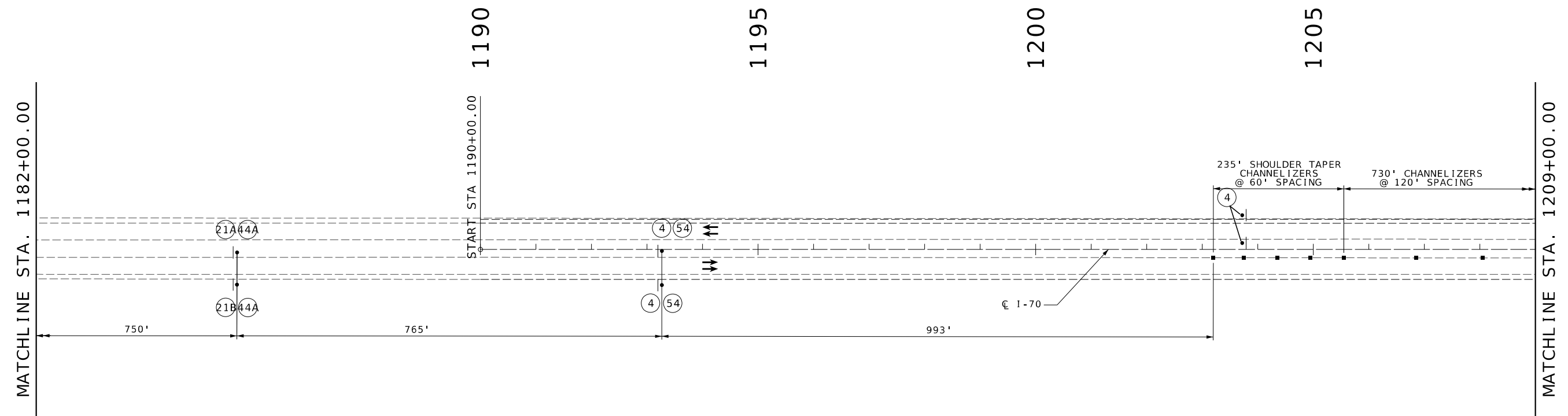
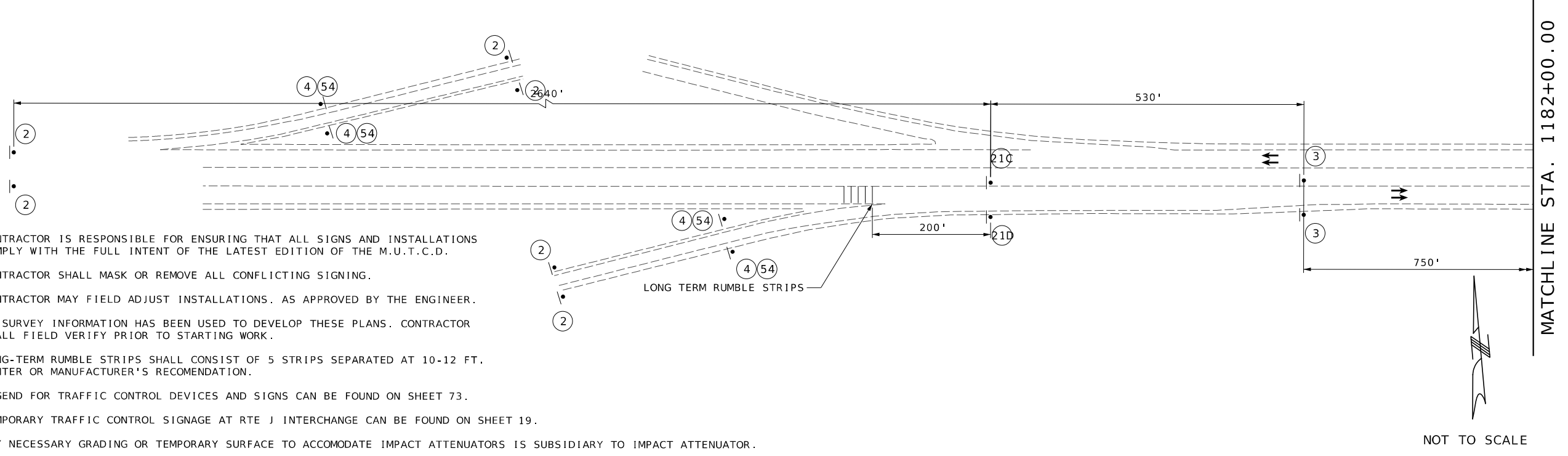
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 BmCd Project No. 171819

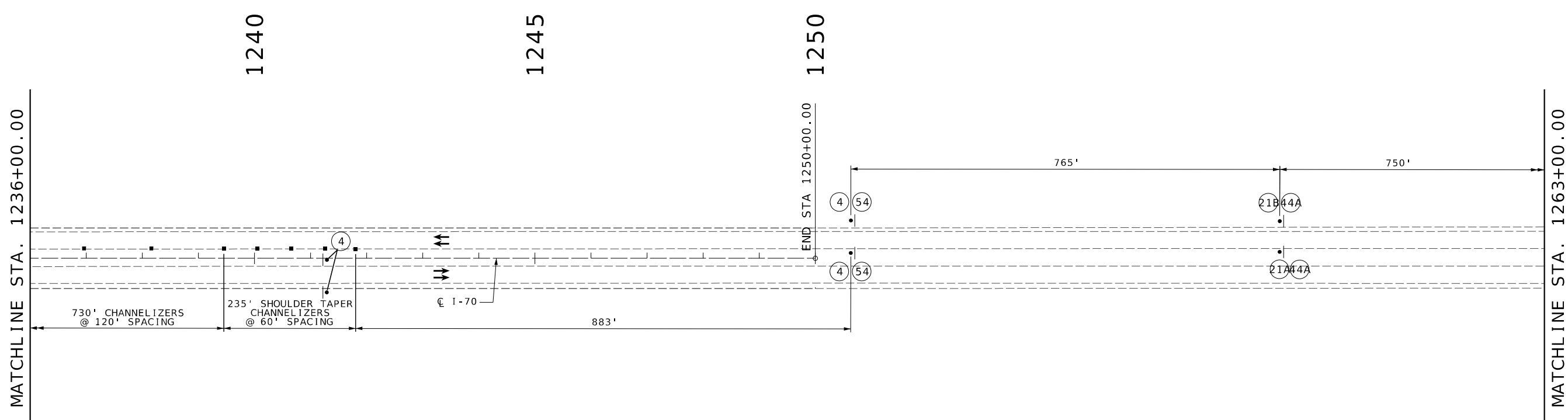
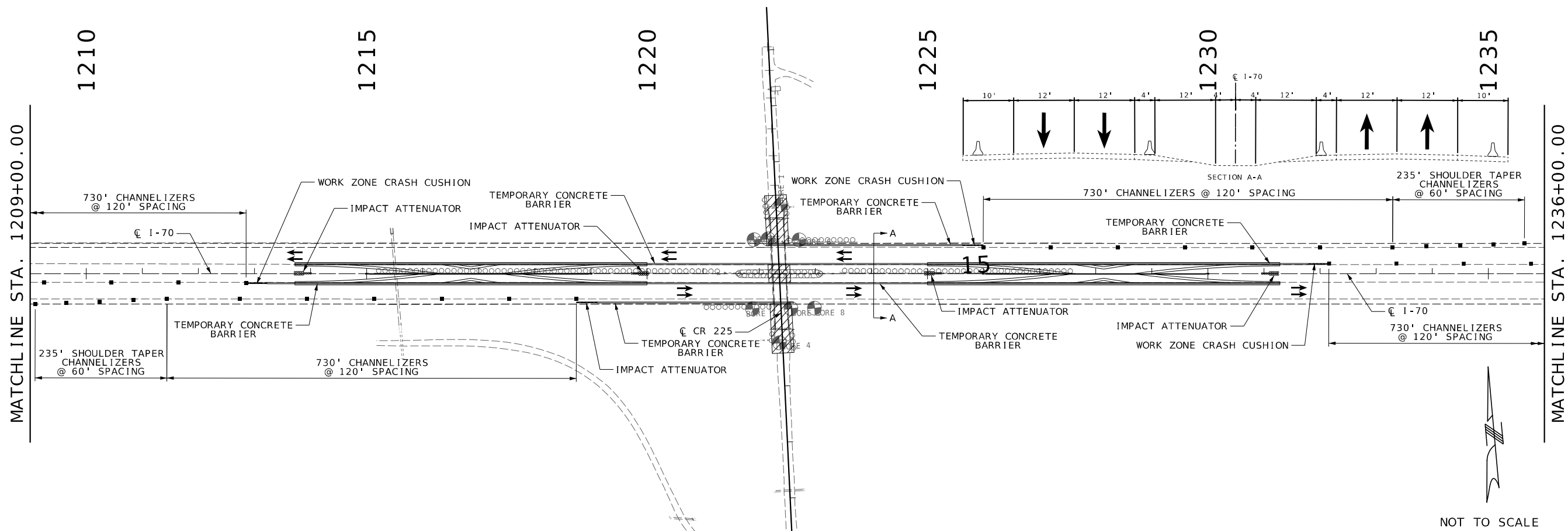
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

NOTES:

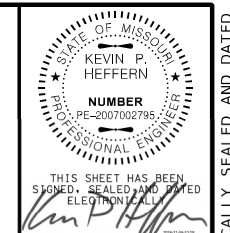
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TRAFFIC CONTROL
 COUNTY ROAD 225
 PHASE 4
 SHEET 42 OF 56



TRAFFIC CONTROL
 COUNTY ROAD 225
 PHASE 4
 SHEET 43 OF 56



DATE PREPARED 11/4/2024	
ROUTE I-70	STATE MO
DISTRICT KC	SHEET NO. 57
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 Bmcd Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MATCHLINE STA. 1290+00.00

2640'

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TRAFFIC CONTROL
COUNTY ROAD 225
PHASE 4
SHEET 44 OF 56

Burns & McDonnell Engineering Co., Inc.

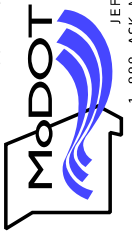
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165

BMcD Project No. 171819



MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

MATCHLINE STA. 1263+00.00

750'

750'

2640'

③

③

②1D

②1C

200'



LONG TERM RUMBLE STRIPS

NOT TO SCALE



MATCHLINE STA. 1290+00.00



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY

DATE PREPARED
11/4/2024

ROUTE STATE
I - 70 MO

DISTRICT SHEET NO.
KC 58

COUNTY
SALINE

JOB NO.
JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

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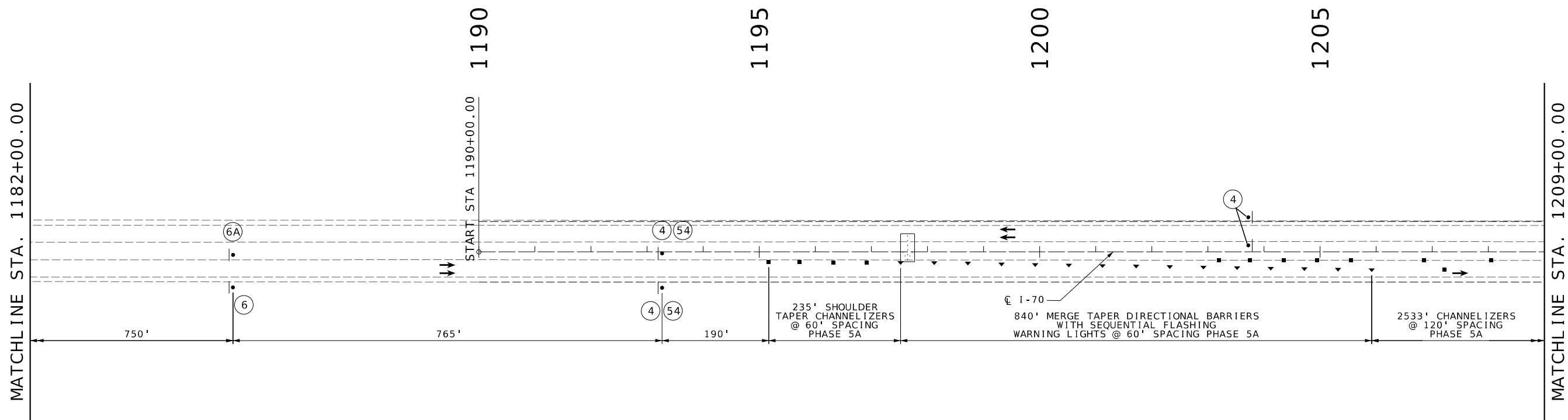
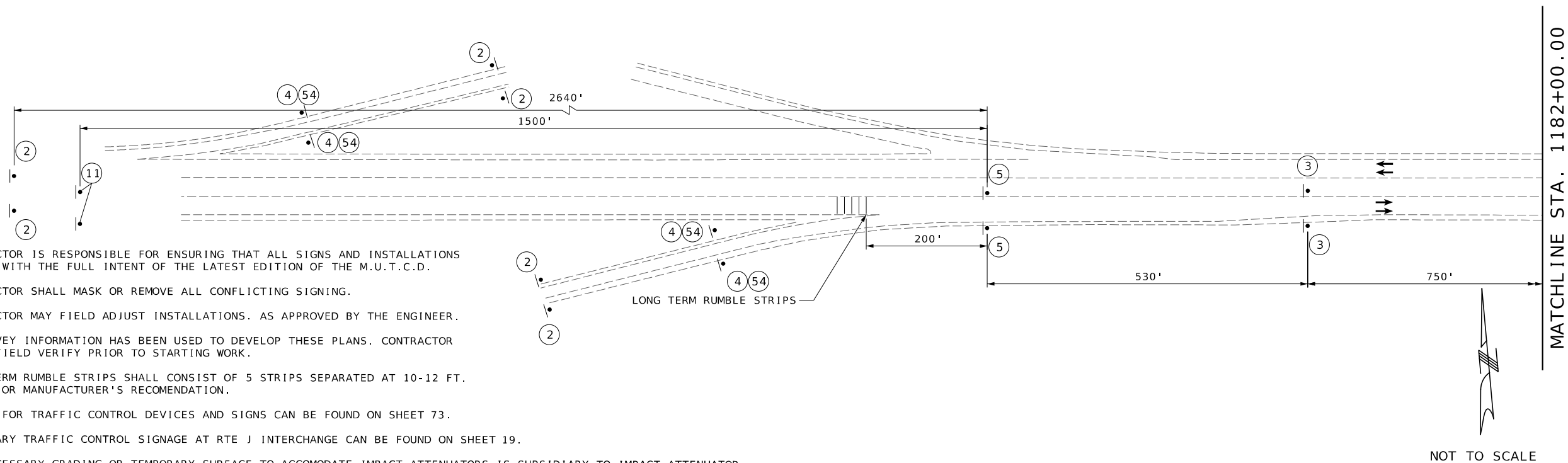
DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

PHASE 5 TRAFFIC CONTROL PLANS SHOW LANE CLOSURE AND ROLLING STOP WHEN IMPACTED BY SETTING GIRDERS.
 REFER TO PHASE 6 TRAFFIC CONTROL PLANS FOR TRAFFIC CONTROL WHEN NOT IMPACTED BY SETTING GIRDERS.
 A DYNAMIC LATE MERGE SYSTEM SHALL BE IN PLACE ALONG LANES IMPACTED BY SETTING GIRDERS DURING PHASE 5.
 REFER TO JOB SPECIAL PROVISIONS FOR DETAILS.

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGNS AND INSTALLATIONS COMPLY WITH THE FULL INTENT OF THE LATEST EDITION OF THE M.U.T.C.D.
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7. TEMPORARY TRAFFIC CONTROL SIGNAGE AT RTE J INTERCHANGE CAN BE FOUND ON SHEET 19.
8. ANY NECESSARY GRADING OR TEMPORARY SURFACE TO ACCOMODATE IMPACT ATTENUATORS IS SUBSIDIARY TO IMPACT ATTENUATOR.



TRAFFIC CONTROL
 COUNTY ROAD 225
 PHASE 5
 SHEET 45 OF 56

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 11/4/2024	
ROUTE I-70	STATE MO
DISTRICT KC	SHEET NO. 59
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

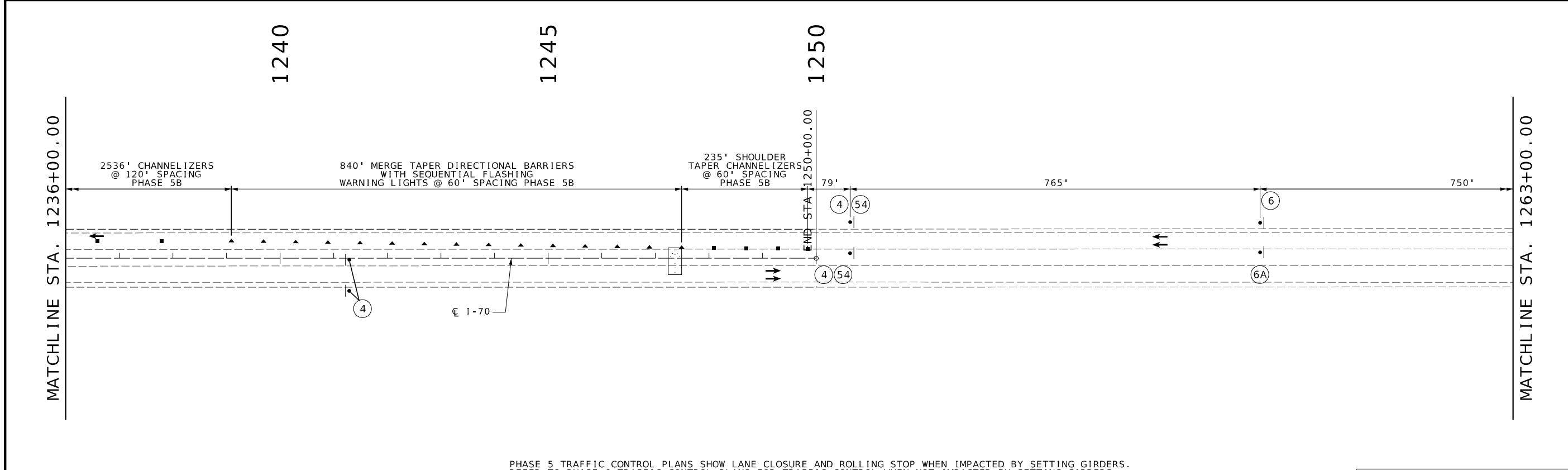
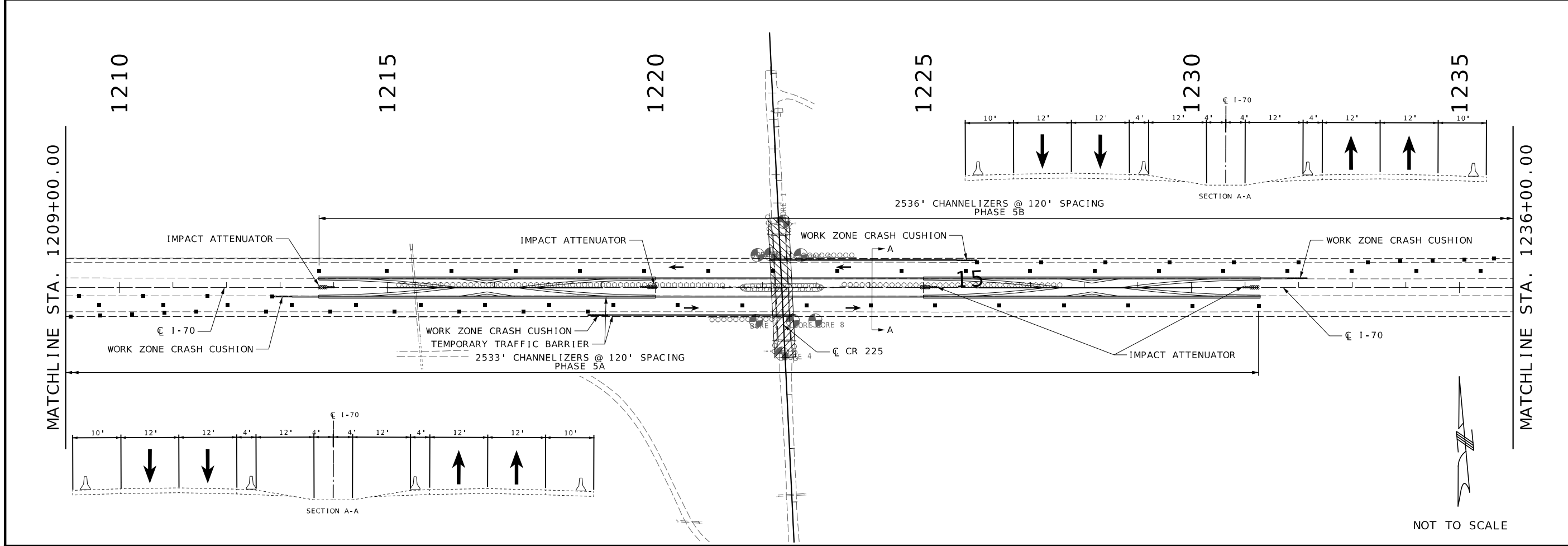
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165

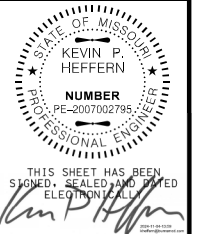
BMcD Project No. 171819



PHASE 5 TRAFFIC CONTROL PLANS SHOW LANE CLOSURE AND ROLLING STOP WHEN IMPACTED BY SETTING GIRDERS. REFER TO PHASE 6 TRAFFIC CONTROL PLANS FOR TRAFFIC CONTROL WHEN NOT IMPACTED BY SETTING GIRDERS.

A DYNAMIC LATE MERGE SYSTEM SHALL BE IN PLACE ALONG LANES IMPACTED BY SETTING GIRDERS DURING PHASE 5. REFER TO JOB SPECIAL PROVISIONS FOR DETAILS.

TRAFFIC CONTROL
 COUNTY ROAD 225
 PHASE 5
 SHEET 46 OF 56



DATE PREPARED
 11/4/2024

ROUTE
 I-70

STATE
 MO

DISTRICT
 KC

SHEET NO.
 60

COUNTY
 SALINE

JOB NO.
 JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION



Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 Bmcd Project No. 171819



IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MATCHLINE STA. 1263+00.00

750'

750'

1500'

1140'

(3)

(5)

(11)

(3)

(5)

(11)

200'

LONG TERM RUMBLE STRIPS



NOT TO SCALE

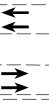
PHASE 5 TRAFFIC CONTROL PLANS SHOW LANE CLOSURE AND ROLLING STOP WHEN IMPACTED BY SETTING GIRDERS.
REFER TO PHASE 6 TRAFFIC CONTROL PLANS FOR TRAFFIC CONTROL WHEN NOT IMPACTED BY SETTING GIRDERS.
A DYNAMIC LATE MERGE SYSTEM SHALL BE IN PLACE ALONG LANES IMPACTED BY SETTING GIRDERS DURING PHASE 5.
REFER TO JOB SPECIAL PROVISIONS FOR DETAILS.

MATCHLINE STA. 1290+00.00

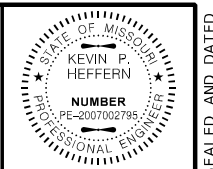
1140'

(2)

(2)



TRAFFIC CONTROL
COUNTY ROAD 225
PHASE 5
SHEET 47 OF 56



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY

DATE PREPARED 11/4/2024	
ROUTE 1-70	STATE MO
DISTRICT KC	SHEET NO. 61

COUNTY
SALINE
JOB NO.
JST0016B
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

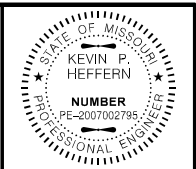
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY

DATE PREPARED
11/4/2024

ROUTE 1-70	STATE MO
DISTRICT KC	SHEET NO. 62

COUNTY
SALINE
JOB NO.
JST0016B
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

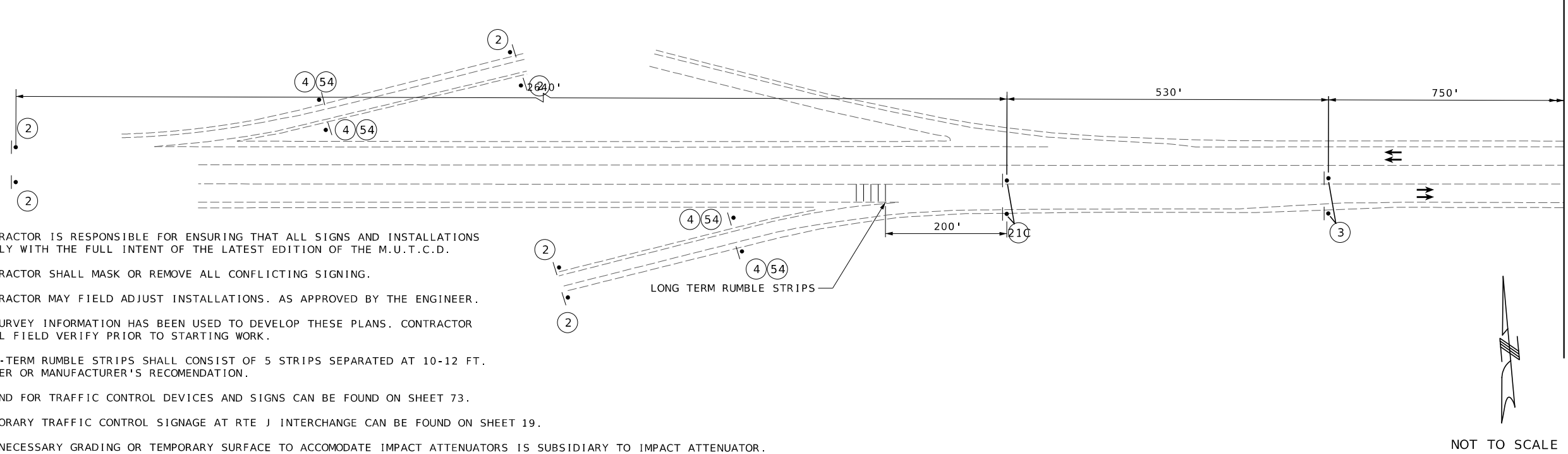
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

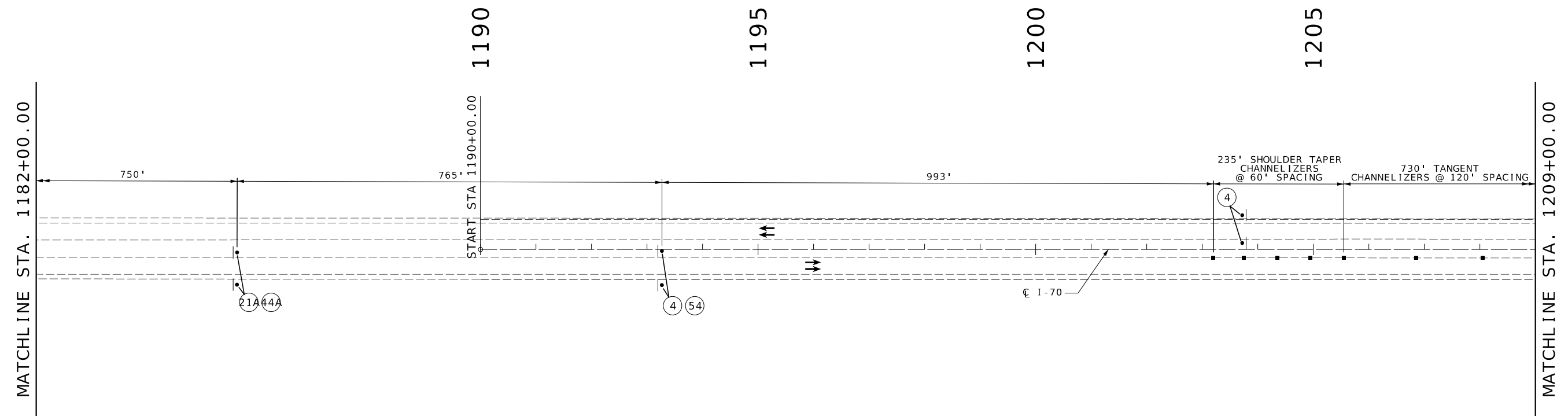
Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 171819

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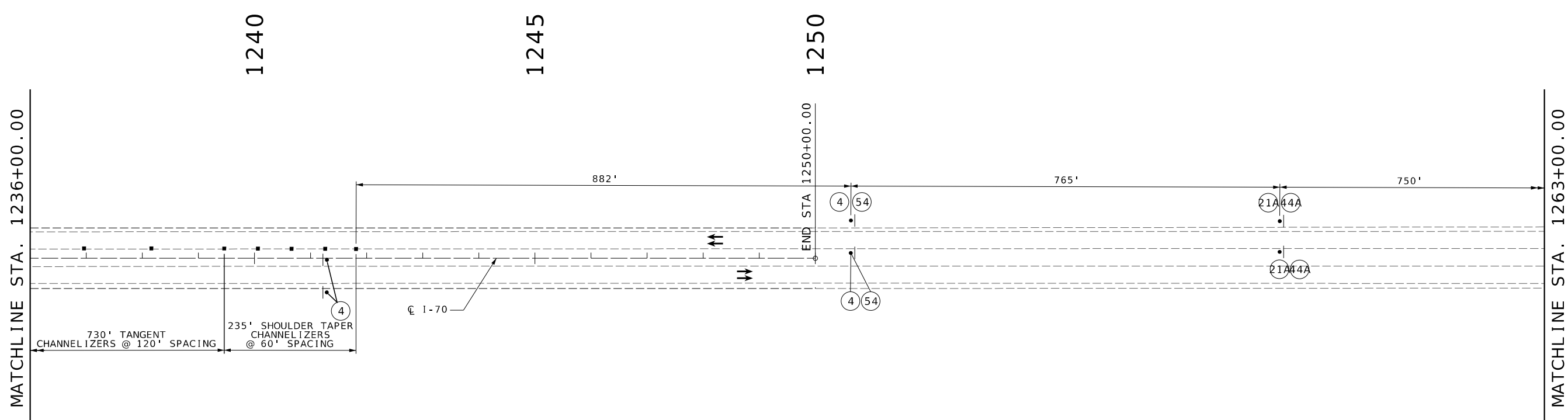
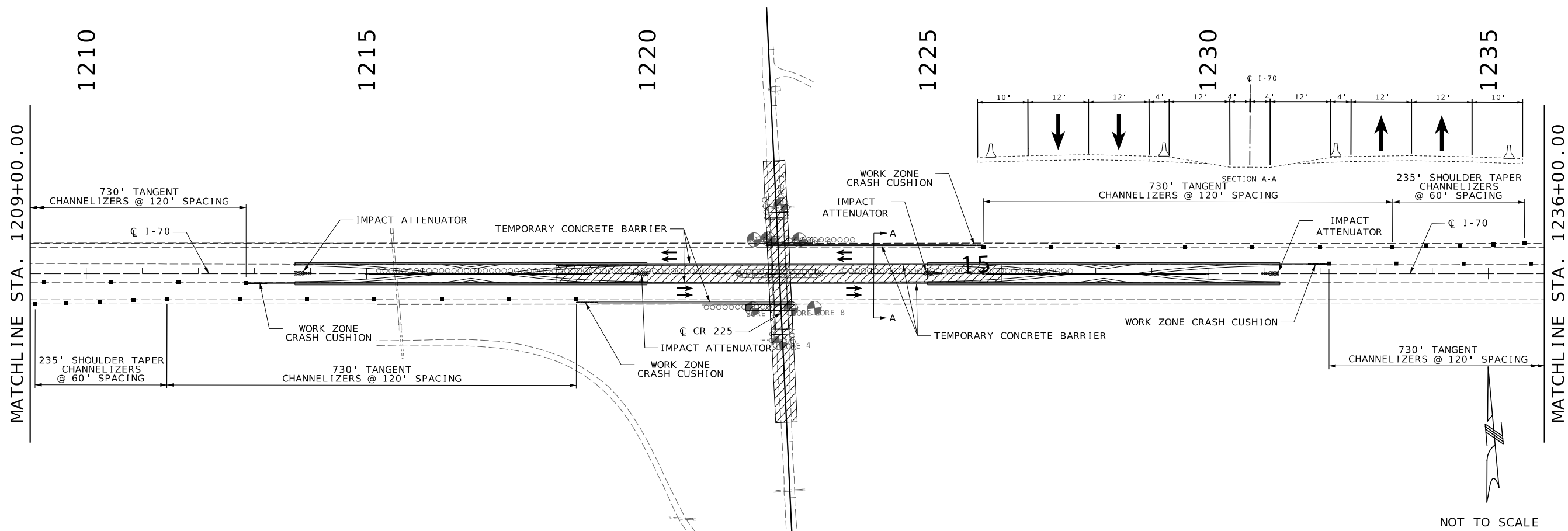
- NOTES:
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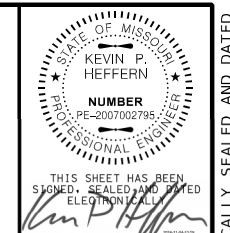
NOT TO SCALE



TRAFFIC CONTROL
COUNTY ROAD 225
PHASE 6
SHEET 48 OF 56



TRAFFIC CONTROL
 COUNTY ROAD 225
 PHASE 6
 SHEET 49 OF 56



DATE PREPARED 11/4/2024	
ROUTE I-70	STATE MO
DISTRICT KC	SHEET NO. 63
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400

Certificate of Authority
 No. : 000165
 BMcD Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MATCHLINE STA. 1290+00.00

2640'

2

2



MATCHLINE STA. 1263+00.00

750'

750'

2640'

3

3

210

210

200'

LONG TERM RUMBLE STRIPS



NOT TO SCALE



TRAFFIC CONTROL
COUNTY ROAD 225
PHASE 6
SHEET 50 OF 56

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400



Certificate of Authority
No. : 000165

BMcD Project No. 171819

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

DESCRIPTION

DATE

PROJECT NO.

BRIDGE NO.

CONTRACT ID.

JST0016B

SALINE

COUNTY

DISTRICT

KC

SHEET NO.

64

ROUTE

I - 70

STATE

MO

DATE PREPARED

11/4/2024

NUMBER

PE-2007002795

PROFESSIONAL ENGINEER

KEVIN P. HEFFERN

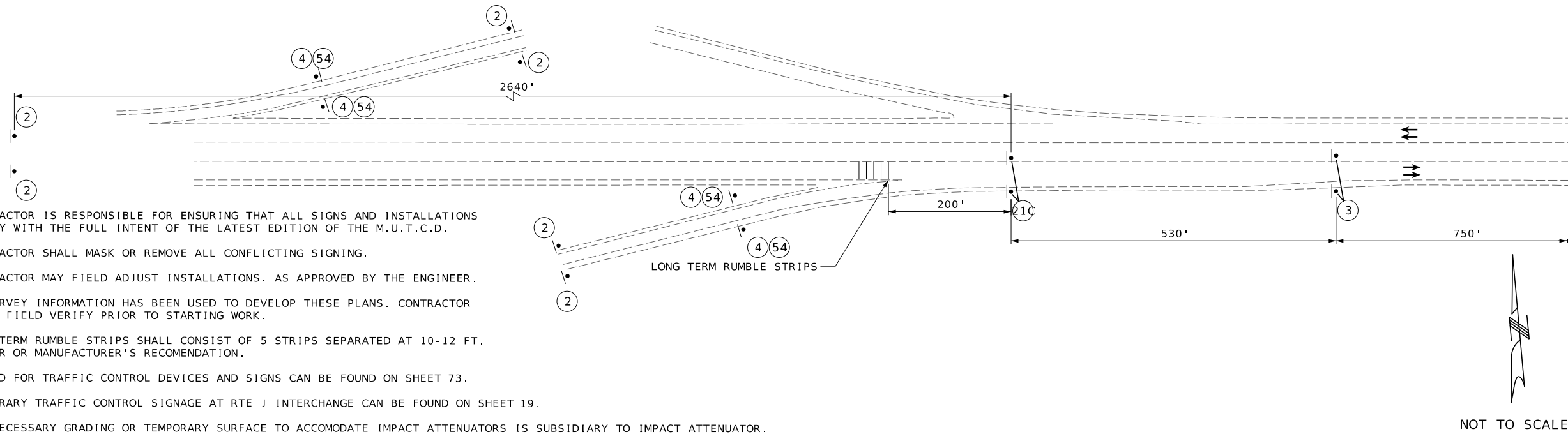
STATE OF MISSOURI

THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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MATCHLINE STA. 1182+00.00

START STA 1190+00.00

1190

1195

1200

1205

MATCHLINE STA. 1209+00.00

750'

765'

993'

235' SHOULDER TAPER CHANNELIZERS @ 60' SPACING

730' TANGENT CHANNELIZERS @ 120' SPACING

TRAFFIC CONTROL
COUNTY ROAD 225
PHASE 7
SHEET 51 OF 56

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.	
DATE PREPARED 11/4/2024	
ROUTE 1-70	STATE MO
DISTRICT KC	SHEET NO. 65
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

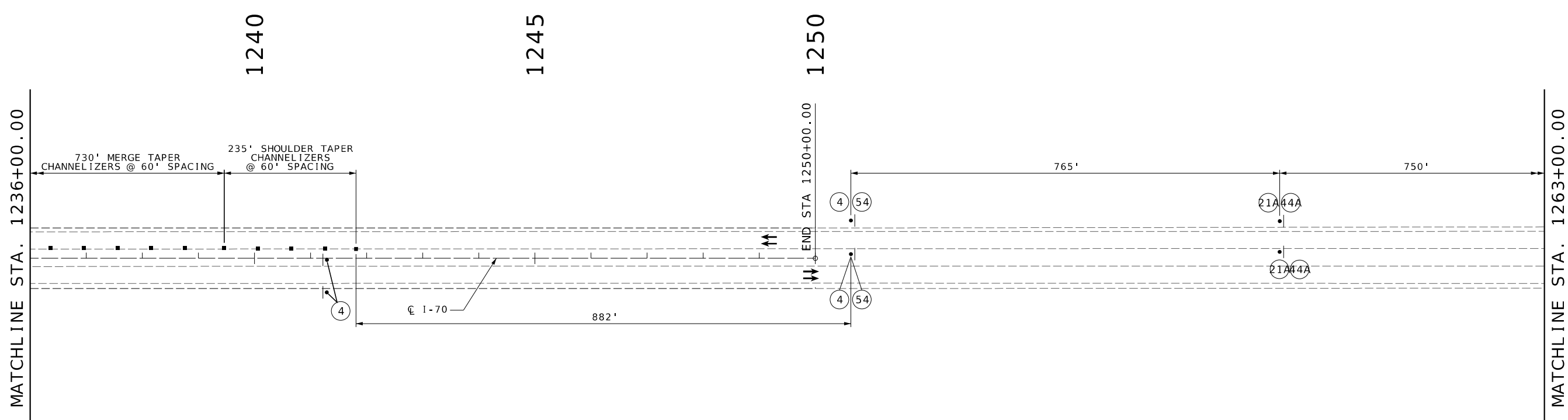
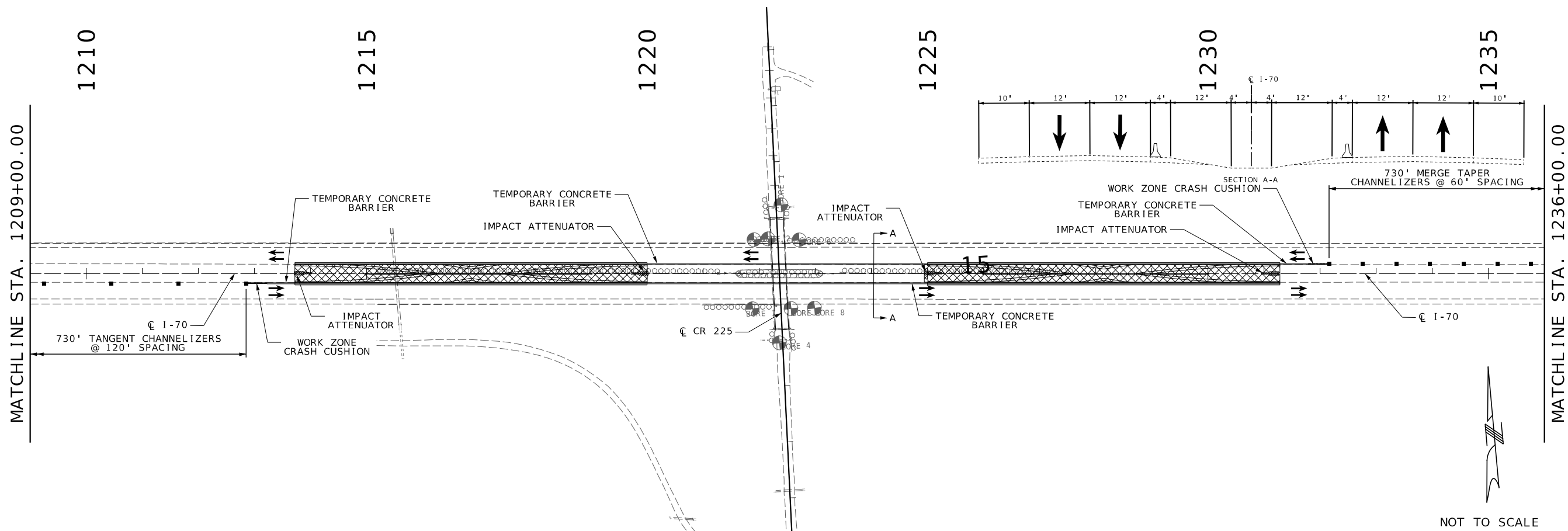
Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

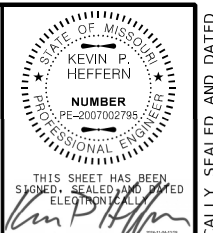
Certificate of Authority
No. : 000165

BMcD Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



TRAFFIC CONTROL
 COUNTY ROAD 225
 PHASE 7
 SHEET 52 OF 56



DATE PREPARED 11/4/2024	
ROUTE I-70	STATE MO
DISTRICT KC	SHEET NO. 66
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400

Certificate of Authority
 No. : 000165
 BmC Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MATCHLINE STA. 1263+00.00

750'

750'

2640'

MATCHLINE STA. 1290+00.00

3

3

210

210

200'

LONG TERM RUMBLE STRIPS

NOT TO SCALE

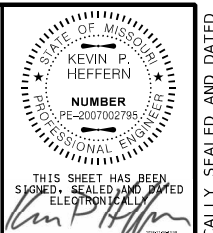
MATCHLINE STA. 1290+00.00

2640'

2

2

TRAFFIC CONTROL
 COUNTY ROAD 225
 PHASE 7
 SHEET 53 OF 56



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

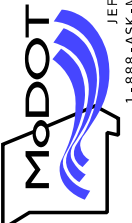
DATE PREPARED
 11/4/2024
 ROUTE STATE
 I-70 MO
 DISTRICT SHEET NO.
 KC 67

COUNTY
 SALINE
 JOB NO.
 JST0016B
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

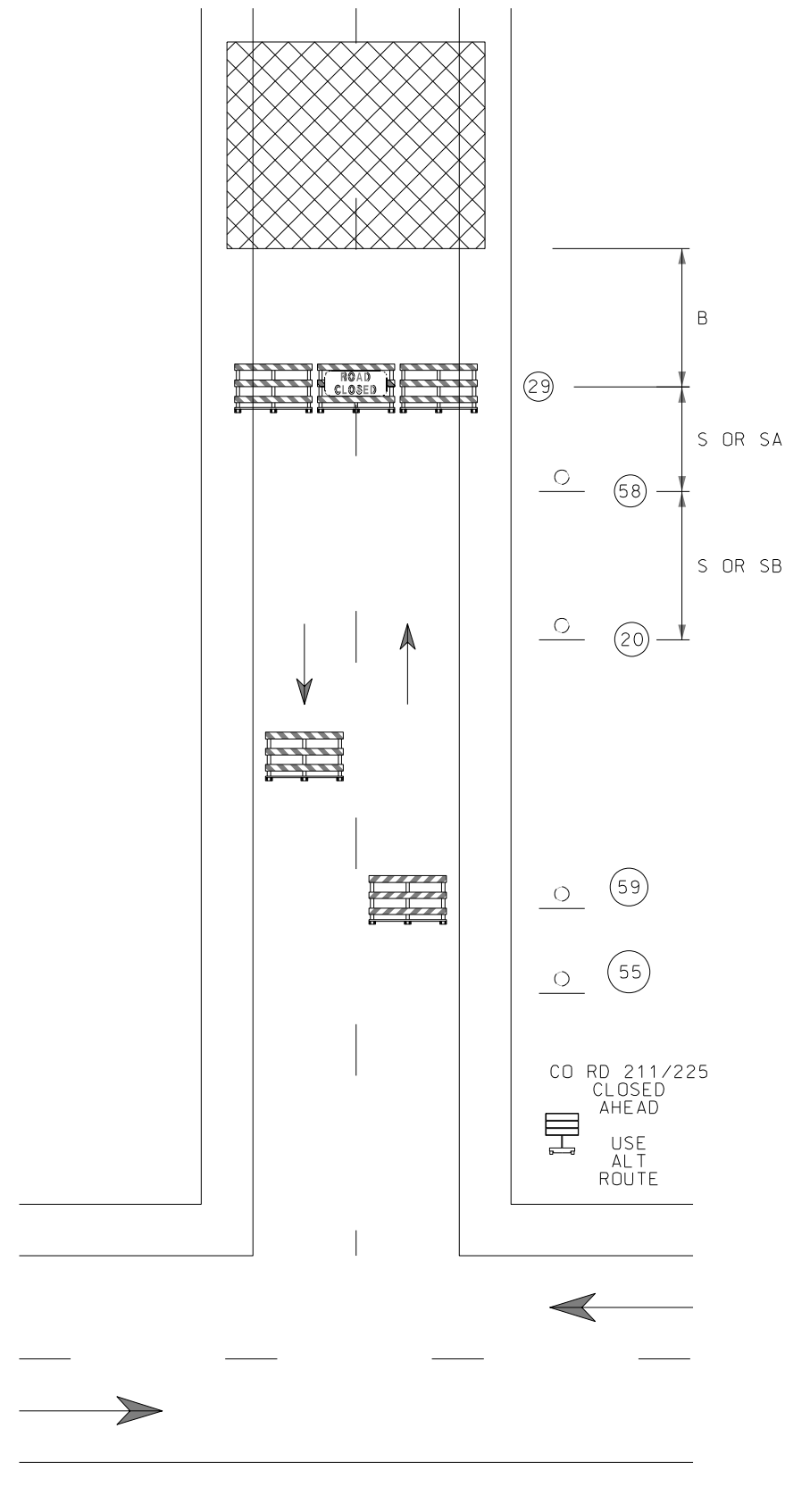


105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 BMCD Project No. 171819



IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

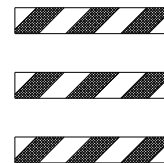


New Bridge

 CONST-5

(55)

**ROAD
 CLOSED
 AHEAD**

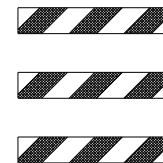


(20)

**ROAD CLOSED
 1 MILES AHEAD
 LOCAL TRAFFIC ONLY**

(59)

**ROAD
 CLOSED
 500 FT**



(58)

**ROAD
 CLOSED**

(29)

- SIGN
- CMS BOARD
- TYPE 3 BARRICADE
- WORK SPACE

(1) THE ROAD CLOSED 1 MILES AHEAD LOCAL TRAFFIC ONLY SIGN SHOULD BE LOCATED AT THE FIRST STATE ROUTE OR, UPON THE DISCRETION OF THE ENGINEER, ANY OTHER INTERSECTION IN ADVANCE OF THE CLOSURE.

(2) ADDITIONAL BARRICADES MAY BE USED AND OFFSET TO FACILITATE ACCESS FOR LOCAL TRAFFIC.

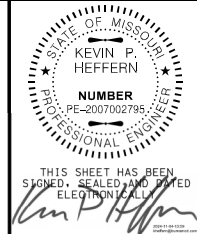
(3) PLACE CMS BOARD AT INTERSECTION OF RTE AE AND CO RD 228 AND AT INTERSECTION OF RTE AE AND CO RD 225, OR AT LOCATIONS APPROVED BY THE ENGINEER.

REFER TO STANDARD PLANS FOR HIGHWAY CONSTRUCTION 616.10 TEMPORARY TRAFFIC CONTROL DEVICES FOR TYPE 3 BARRICADES.

SIGN SPACING FOR ADVANCE SIGN SERIES
 SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.
 SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

SPEED MPH (P)	UNDIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
	0-35	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	SA-1000 FT, SB-1500 FT, SC-2640 FT	

TRAFFIC CONTROL
 SHEET 54 OF 56



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.
 DATE PREPARED: 11/4/2024
 ROUTE: I-70 STATE: MO
 DISTRICT: KC SHEET NO.: 68
 COUNTY: SALINE
 JOB NO.: JST0016B
 CONTRACT ID.:
 PROJECT NO.:
 BRIDGE NO.:

DATE	DESCRIPTION

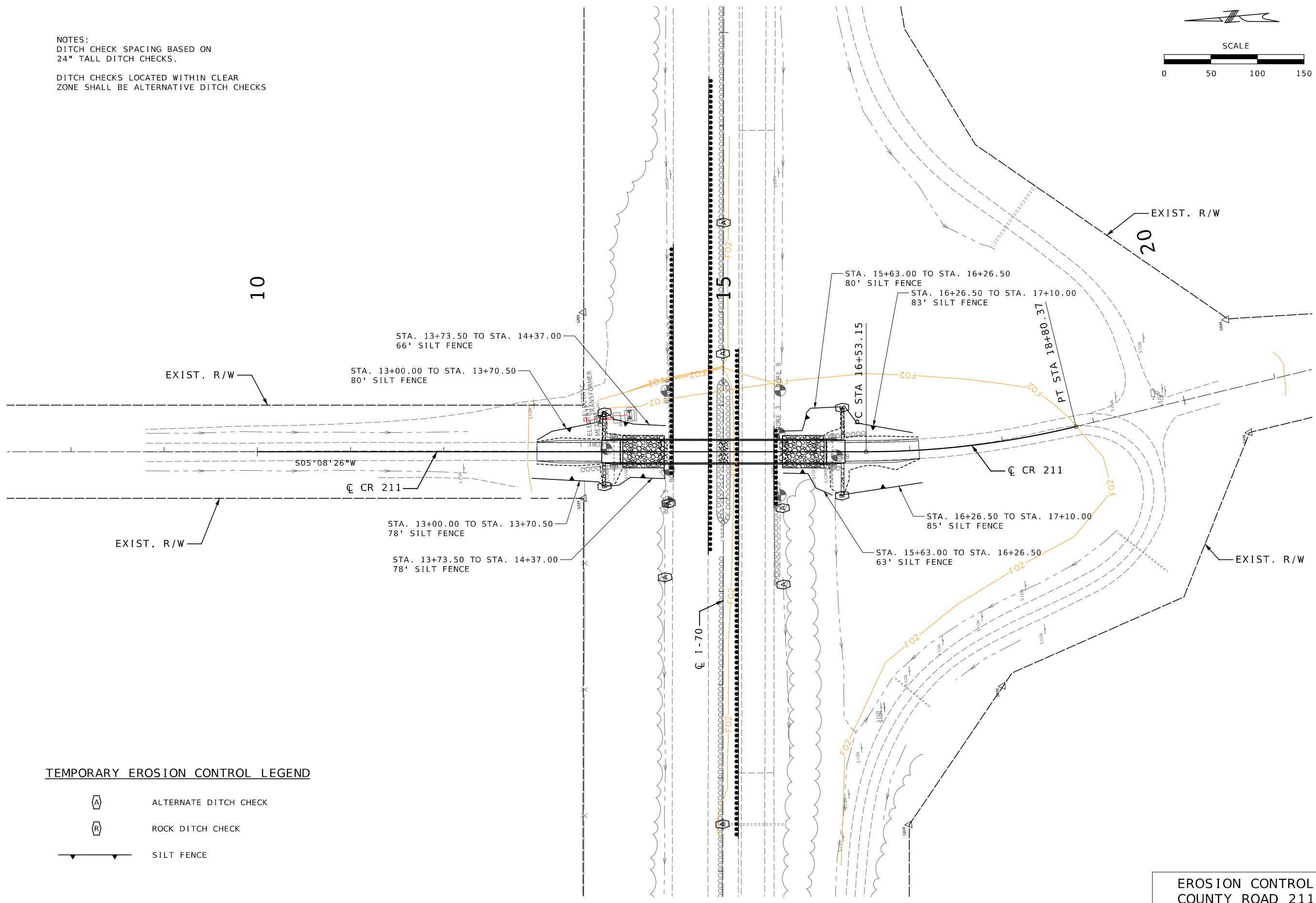
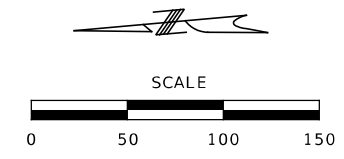
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)



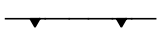
Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 BMcD Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

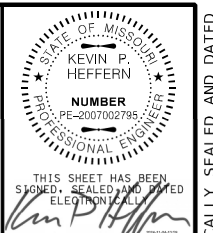
NOTES:
 DITCH CHECK SPACING BASED ON
 24" TALL DITCH CHECKS.
 DITCH CHECKS LOCATED WITHIN CLEAR
 ZONE SHALL BE ALTERNATIVE DITCH CHECKS



TEMPORARY EROSION CONTROL LEGEND

-  ALTERNATE DITCH CHECK
-  ROCK DITCH CHECK
-  SILT FENCE

**EROSION CONTROL
 COUNTY ROAD 211
 SHEET 1 OF 4**

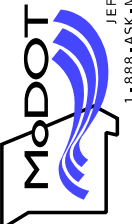


THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 11/4/2024	
ROUTE I-70	STATE MO
DISTRICT KC	SHEET NO. 71
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	


DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

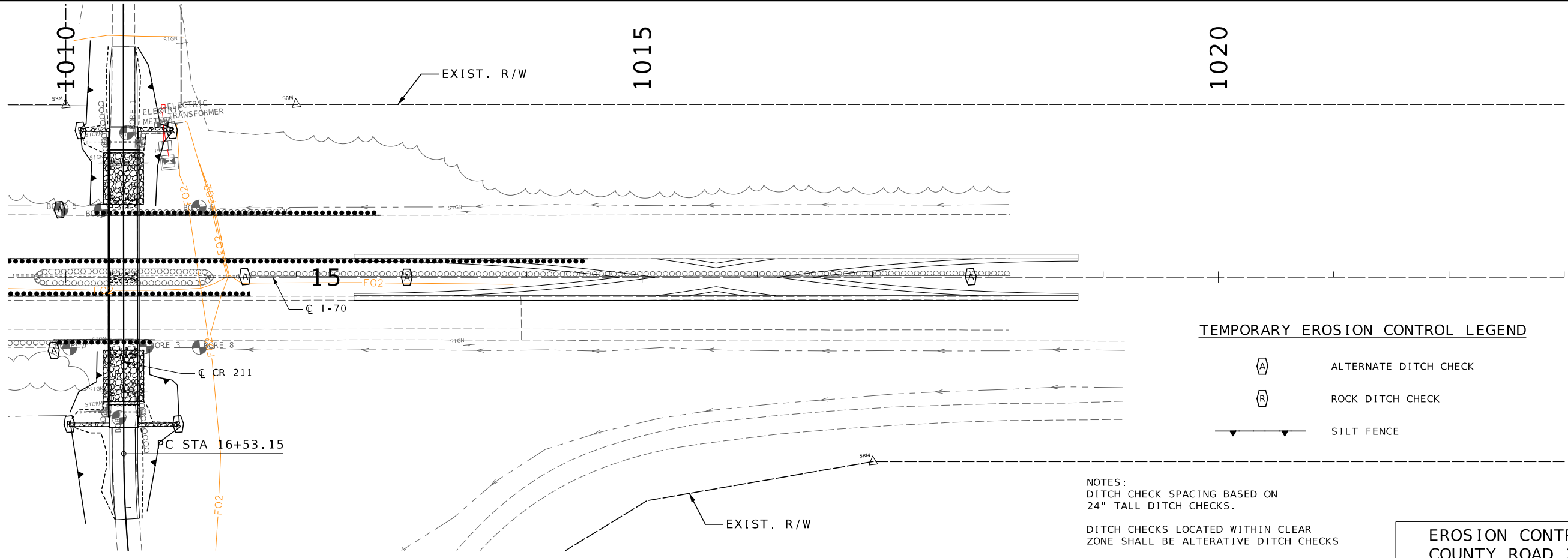
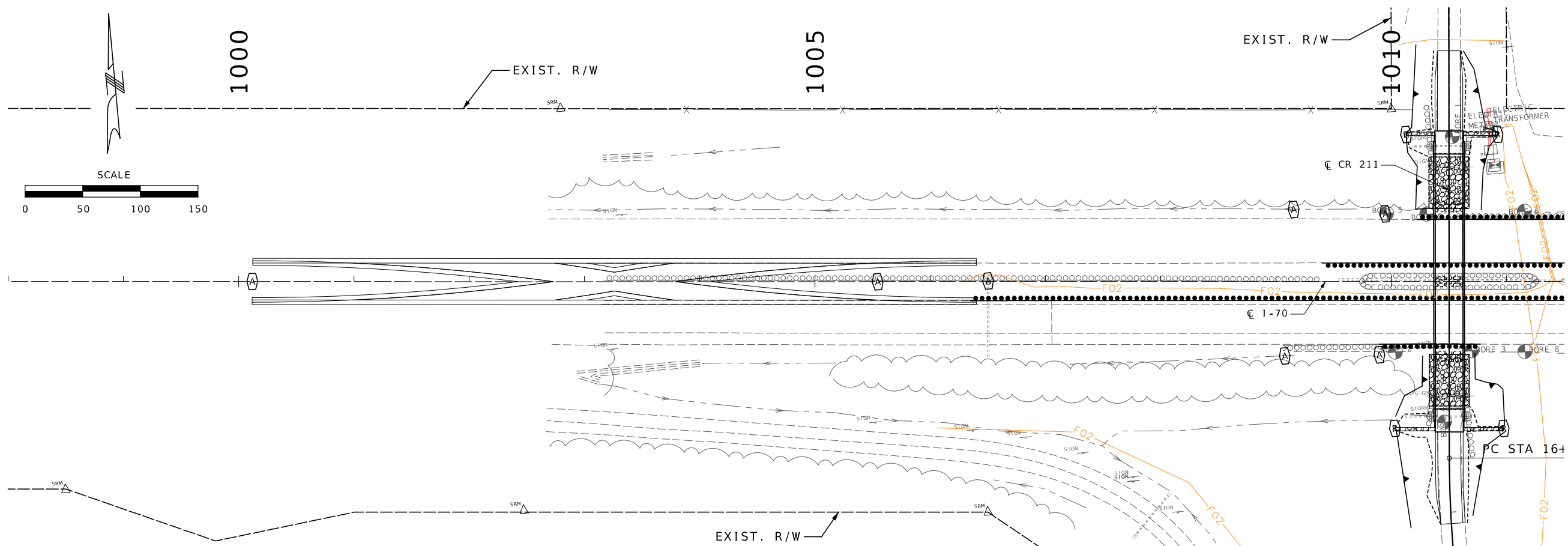


105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)



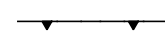
Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 Bmcd Project No. 171819



IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

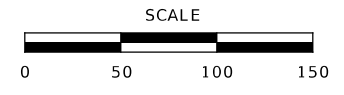


TEMPORARY EROSION CONTROL LEGEND

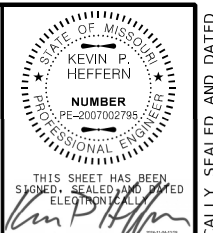
-  ALTERNATE DITCH CHECK
-  ROCK DITCH CHECK
-  SILT FENCE

NOTES:
 DITCH CHECK SPACING BASED ON
 24" TALL DITCH CHECKS.
 DITCH CHECKS LOCATED WITHIN CLEAR
 ZONE SHALL BE ALTERNATIVE DITCH CHECKS

EROSION CONTROL
COUNTY ROAD 211
SHEET 2 OF 4



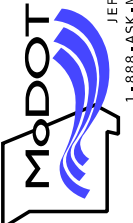
SCALE




DATE PREPARED
 11/4/2024
 ROUTE
 I-70
 STATE
 MO
 DISTRICT
 KC
 SHEET NO.
 72
 COUNTY
 SALINE
 JOB NO.
 JST0016B
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 BlcD Project No. 171819


IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY
Kevin P. Heffern

DATE PREPARED 11/4/2024	
ROUTE I-70	STATE MO
DISTRICT KC	SHEET NO. 73
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

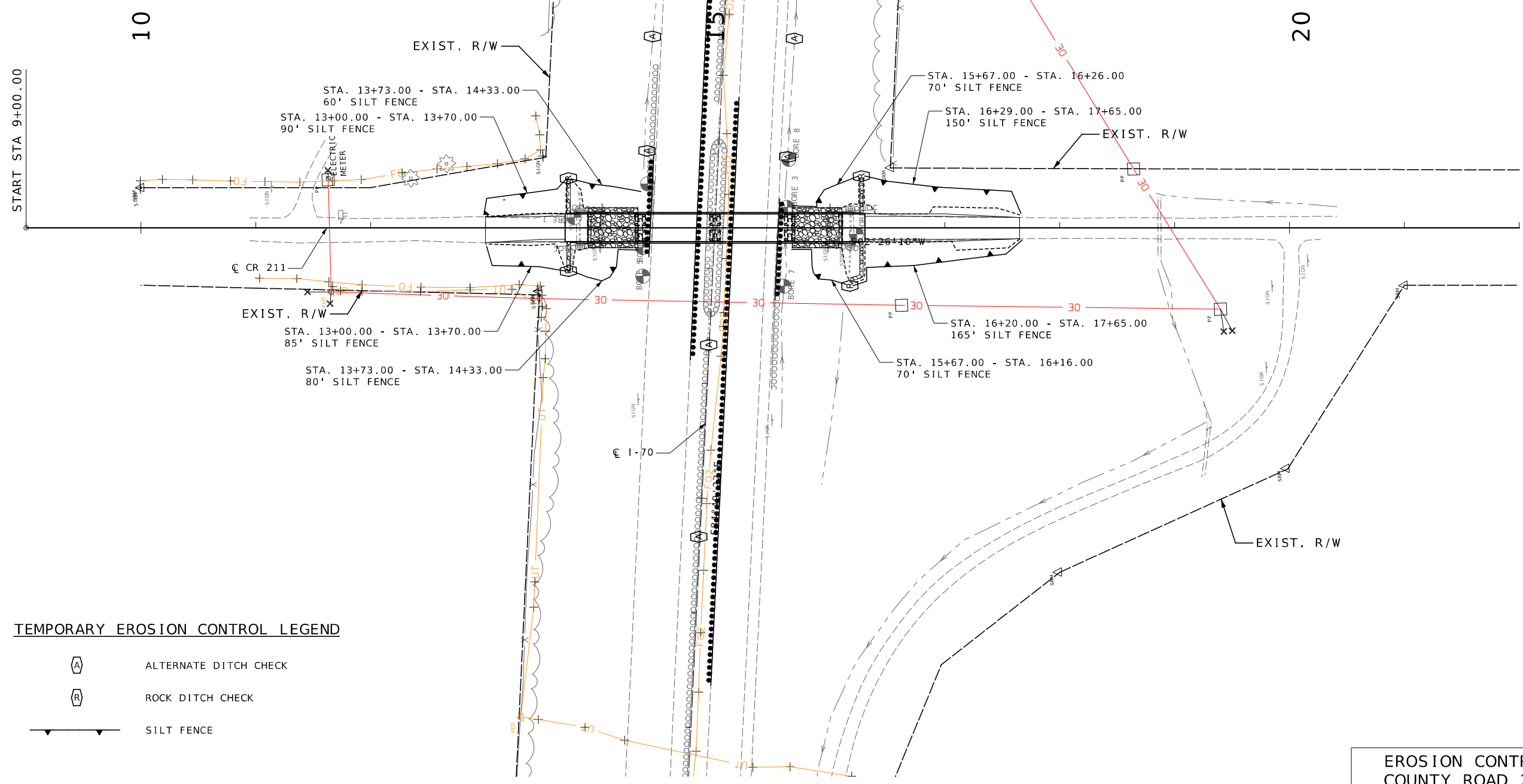
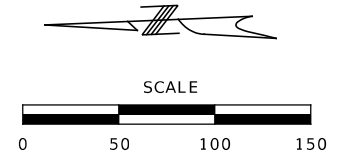
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 BMcD Project No. 171819

NOTES:
 DITCH CHECK SPACING BASED ON 24" TALL DITCH CHECKS.
 DITCH CHECKS LOCATED WITHIN CLEAR ZONE SHALL BE ALTERNATIVE DITCH CHECKS

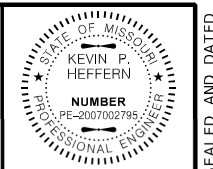


TEMPORARY EROSION CONTROL LEGEND

	ALTERNATE DITCH CHECK
	ROCK DITCH CHECK
	SILT FENCE

EROSION CONTROL
 COUNTY ROAD 225
 SHEET 3 OF 4

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



THIS SHEET HAS BEEN SIGNED, SEALED AND FILED ELECTRONICALLY

DATE PREPARED
11/4/2024

ROUTE STATE
I-70 MO

DISTRICT SHEET NO.
KC 74

COUNTY
SALINE

JOB NO.
JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

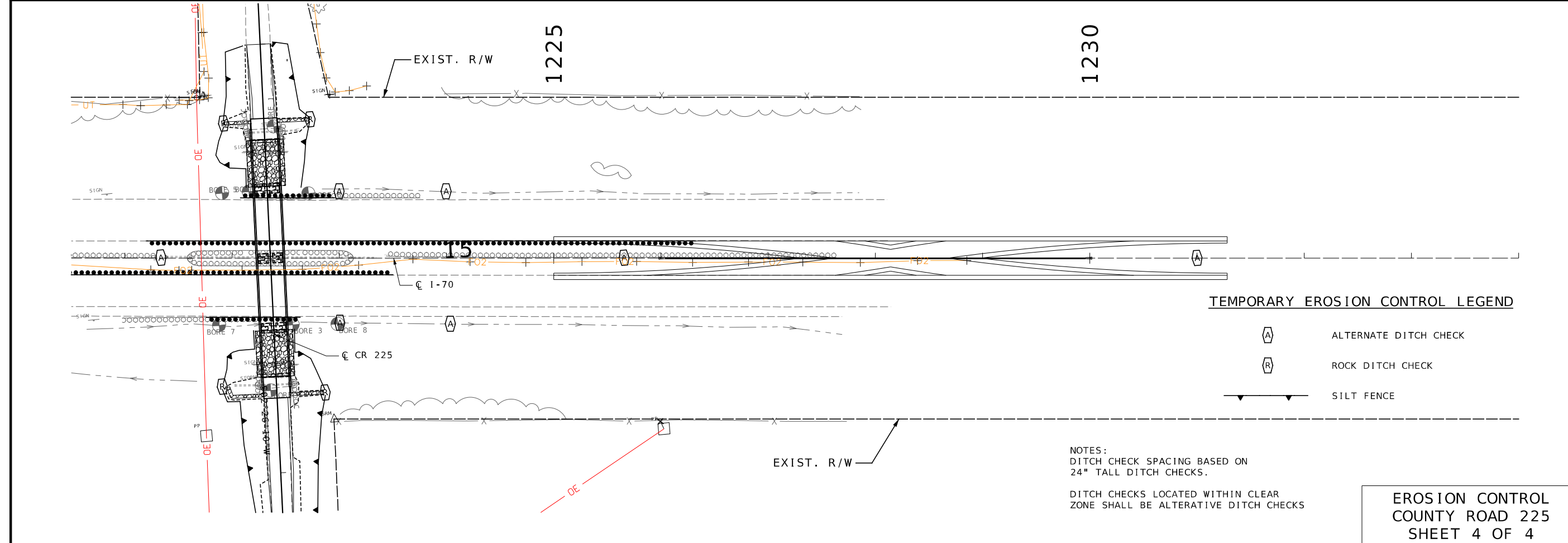
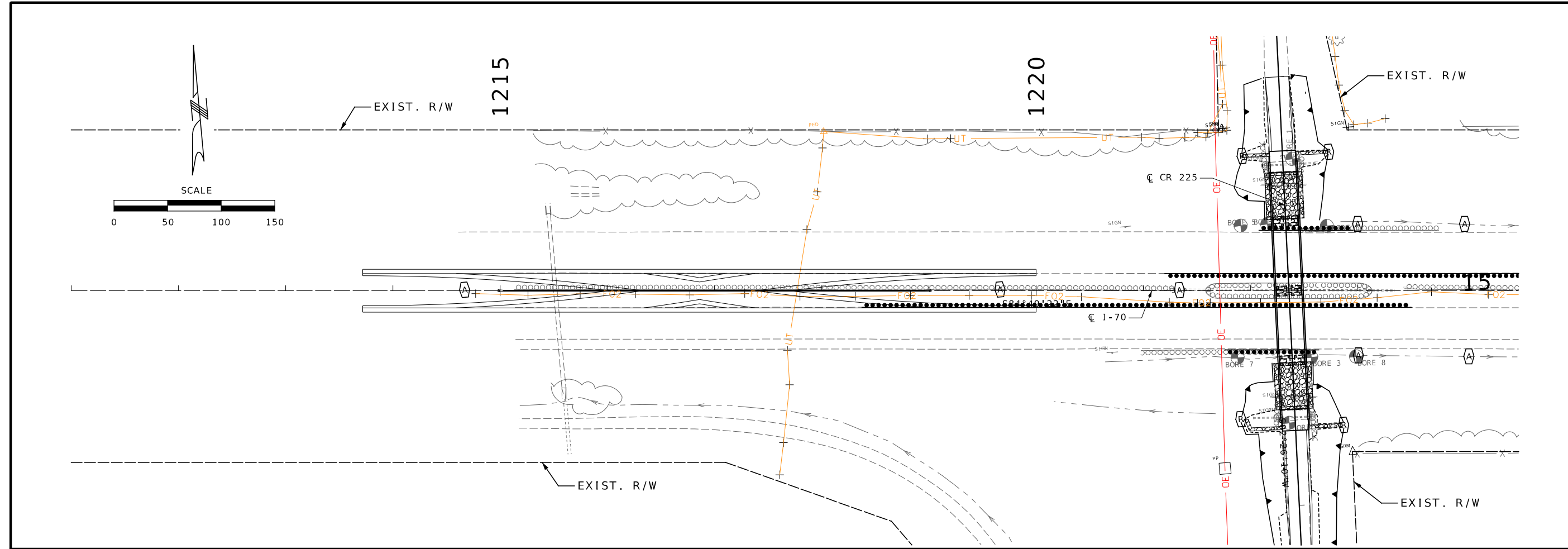
Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165

BmCd Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



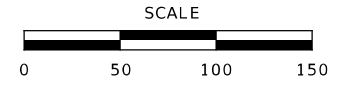
TEMPORARY EROSION CONTROL LEGEND

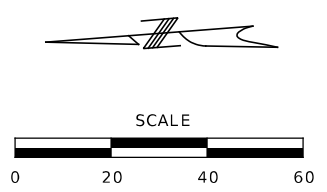
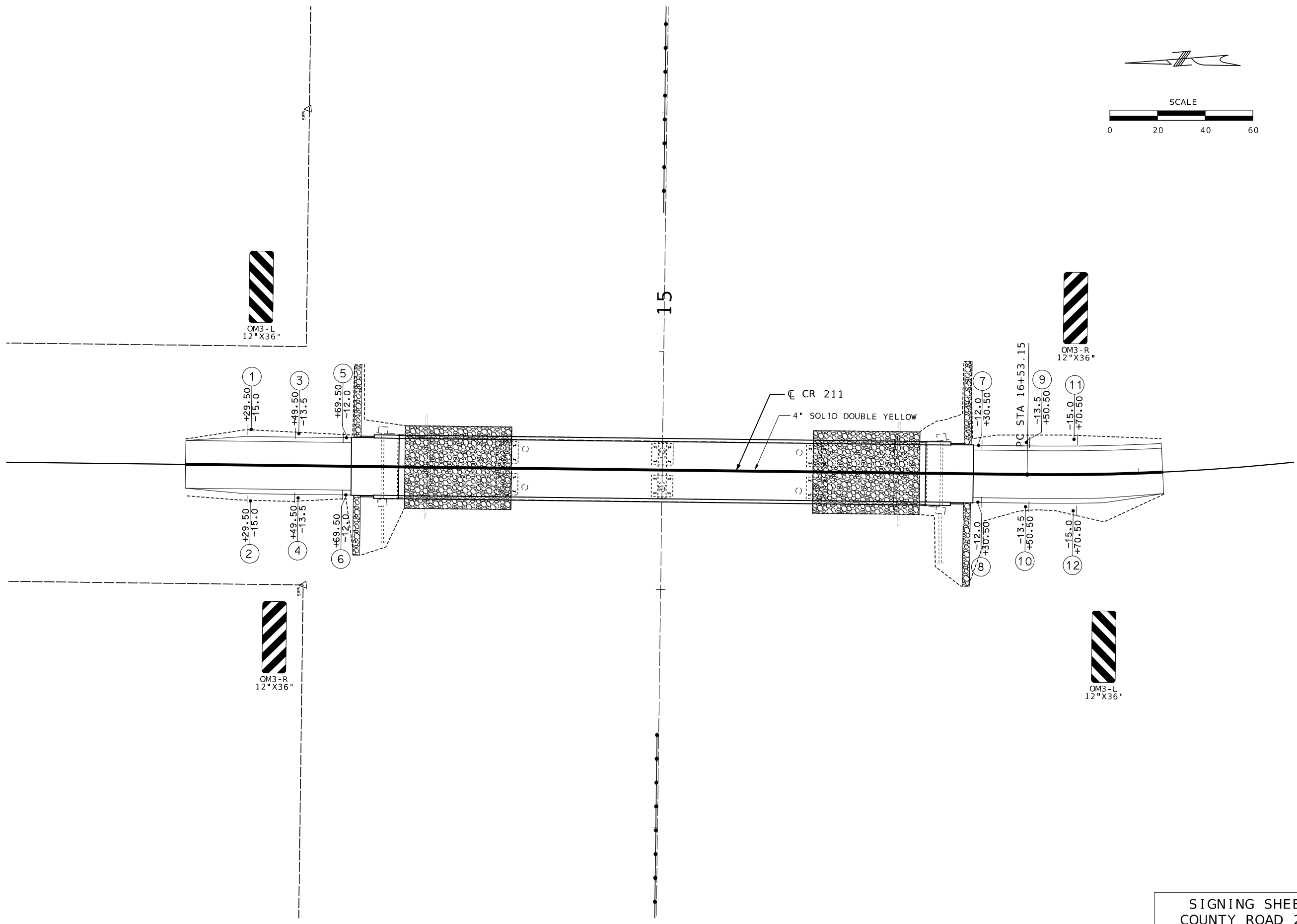
- ALTERNATE DITCH CHECK
- ROCK DITCH CHECK
- SILT FENCE

NOTES:
DITCH CHECK SPACING BASED ON 24" TALL DITCH CHECKS.

DITCH CHECKS LOCATED WITHIN CLEAR ZONE SHALL BE ALTERNATIVE DITCH CHECKS

EROSION CONTROL
COUNTY ROAD 225
SHEET 4 OF 4





SIGNING SHEET
 COUNTY ROAD 211
 SHEET 1 OF 4



THIS SHEET HAS BEEN
 SIGNED, SEALED AND DATED
 ELECTRONICALLY

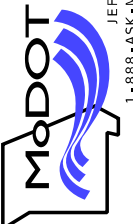
DATE PREPARED
 11/4/2024

ROUTE 1-70	STATE MO
DISTRICT KC	SHEET NO. 75

COUNTY
 SALINE
 JOB NO.
 JST0016B
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

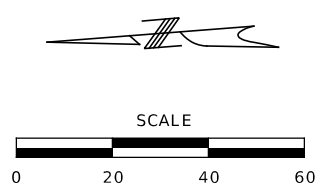
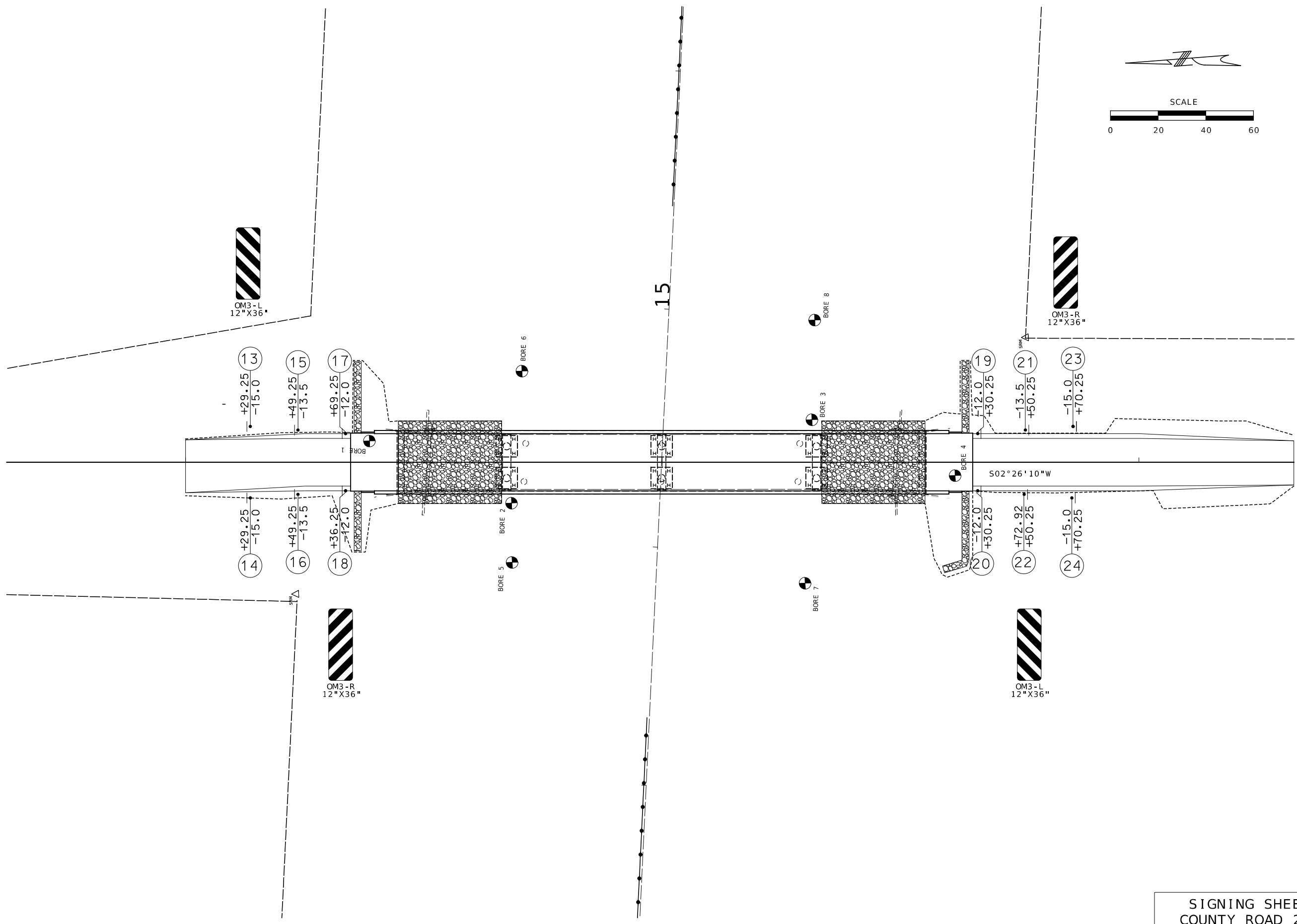
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 Bmcd Project No. 171819



IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



SIGNING SHEET
 COUNTY ROAD 225
 SHEET 2 OF 4



THIS SHEET HAS BEEN
 SIGNED, SEALED AND DATED
 ELECTRONICALLY

DATE PREPARED 11/4/2024	
ROUTE I-70	STATE MO
DISTRICT KC	SHEET NO. 76
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	

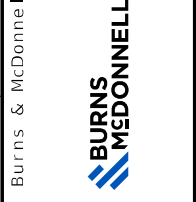
PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 BmCd Project No. 171819



IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

D-29

EFFECTIVE 07-01-2022

SIGNS						U-CHANNEL POST
902 SIGNAL SIGNS TABULATED ON D-37A SHEET						
SIGN NO.	SIGN SIZE	STATION	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	ITEM NO. 9031250A LF
1	12"x36"	13+29.50		CR 211, 15.00' LT		12'
2	12"x36"	13+29.50		CR 211, 15.00' RT		12'
3	12"x36"	13+49.50		CR 211, 13.50' LT		12'
4	12"x36"	13+49.50		CR 211, 13.50' RT		12'
5	12"x36"	13+69.50		CR 211, 12.00' LT		12'
6	12"x36"	13+69.50		CR 211, 12.00' RT		12'
7	12"x36"	16+30.50		CR 211, 12.00' LT		12'
8	12"x36"	16+30.50		CR 211, 12.00' RT		12'
9	12"x36"	16+50.50		CR 211, 13.50' LT		12'
10	12"x36"	16+50.50		CR 211, 13.50' RT		12'
11	12"x36"	16+70.50		CR 211, 15.00' LT		12'
12	12"x36"	16+70.50		CR 211, 15.00' RT		12'
SUBTOTAL						144'
TOTAL						144'

STATE OF MISSOURI
KEVIN P. HEFFERN
NUMBER PE-2007002795
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 11/4/2024

ROUTE 1-70 STATE MO

DISTRICT KC SHEET NO. 77

COUNTY SALINE

JOB NO. JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

D-30

EFFECTIVE 10-01-2016

SIGN NUMBER	STATION	LOCATION	STANDARD SIGN ASSEMBLIES												SIGN SUMMARY				
			TYPE												STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET	
			SH	SH														SIZE	FLAT SHEET SH
SIGN DESCRIPTION, SIZES & NUMBER OF EACH															ITEM NO. 9035004A				
1	13+29.50	CR 211, 15.00' LT	1												OM3-L - TYPE 3 OBJECT MARKER	6	12"x36"	18.00	
2	13+29.50	CR 211, 15.00' RT		1											OM3-R - TYPE 3 OBJECT MARKER	6	12"x36"	18.00	
3	13+49.50	CR 211, 13.50' LT	1																
4	13+49.50	CR 211, 13.50' RT		1															
5	13+69.50	CR 211, 12.00' LT	1																
6	13+69.50	CR 211, 12.00' RT		1															
7	16+30.50	CR 211, 12.00' LT	1																
8	16+30.50	CR 211, 12.00' RT		1															
9	16+50.50	CR 211, 13.50' LT	1																
10	16+50.50	CR 211, 13.50' RT		1															
11	16+70.50	CR 211, 15.00' LT	1																
12	16+70.50	CR 211, 15.00' RT		1															
TOTALS			6	6															
TOTAL																		36.00	

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-273-6636)

M&D

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 171819

SIGNING SHEET
COUNTY ROAD 211
SHEET 3 OF 4

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

D-29

EFFECTIVE 07-01-2022

SIGNS						U-CHANNEL POST
902 SIGNAL SIGNS TABULATED ON D-37A SHEET						
SIGN NO.	SIGN SIZE	STATION	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	ITEM NO. 9031250A LF
13	12"x36"	13+29.25		CR 225, 15.00' LT		12'
14	12"x36"	13+29.25		CR 225, 15.00' RT		12'
15	12"x36"	13+49.25		CR 225, 13.50' LT		12'
16	12"x36"	13+49.25		CR 225, 13.50' RT		12'
17	12"x36"	13+69.25		CR 225, 12.00' LT		12'
18	12"x36"	13+69.25		CR 225, 12.00' RT		12'
19	12"x36"	16+30.25		CR 225, 12.00' LT		12'
20	12"x36"	16+30.25		CR 225, 12.00' RT		12'
21	12"x36"	16+50.25		CR 225, 13.50' LT		12'
22	12"x36"	16+50.25		CR 225, 13.50' RT		12'
23	12"x36"	16+70.25		CR 225, 15.00' LT		12'
24	12"x36"	16+70.25		CR 225, 15.00' RT		12'
SUBTOTAL						144'
TOTAL						144'

STATE OF MISSOURI
KEVIN P. HEFFERN
NUMBER PE-2007002795
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 11/4/2024

ROUTE 1-70 STATE MO

DISTRICT KC SHEET NO. 81

COUNTY SALINE

JOB NO. JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

D-30

EFFECTIVE 10-01-2016

SIGN NUMBER	STATION	LOCATION	STANDARD SIGN ASSEMBLIES																SIGN SUMMARY				
			TYPE																STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET	
			SH	SH																			SIZE
13	13+29.25	CR 225, 15.00' LT	1															OM3-L - TYPE 3 OBJECT MARKER	6	12"x36"	18.00		
14	13+29.25	CR 225, 15.00' RT		1														OM3-R - TYPE 3 OBJECT MARKER	6	12"x36"	18.00		
15	13+49.25	CR 225, 13.50' LT	1																				
16	13+49.25	CR 225, 13.50' RT		1																			
17	13+69.25	CR 225, 12.00' LT	1																				
18	13+69.25	CR 225, 12.00' RT		1																			
19	16+30.25	CR 225, 12.00' LT	1																				
20	16+30.25	CR 225, 12.00' RT		1																			
21	16+50.25	CR 225, 13.50' LT	1																				
22	16+50.25	CR 225, 13.50' RT		1																			
23	16+70.25	CR 225, 15.00' LT	1																				
24	16+70.25	CR 225, 15.00' RT		1																			
TOTALS			6	6														TOTAL		36.00			

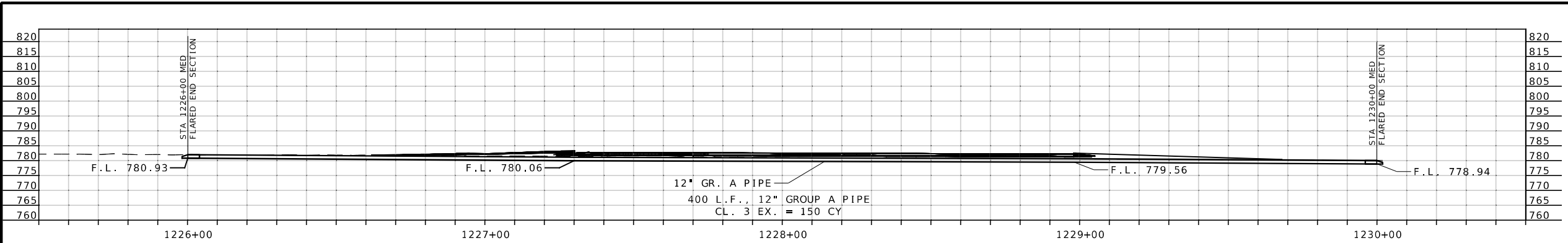
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

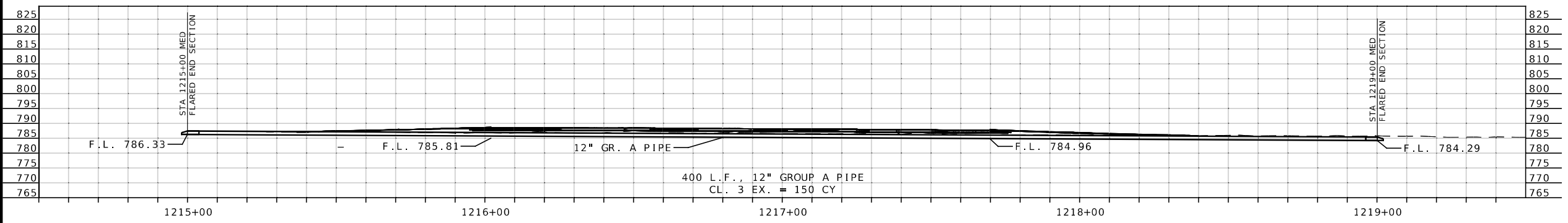
M&D
McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 171819

SIGNING SHEET
COUNTY ROAD 225
SHEET 4 OF 4

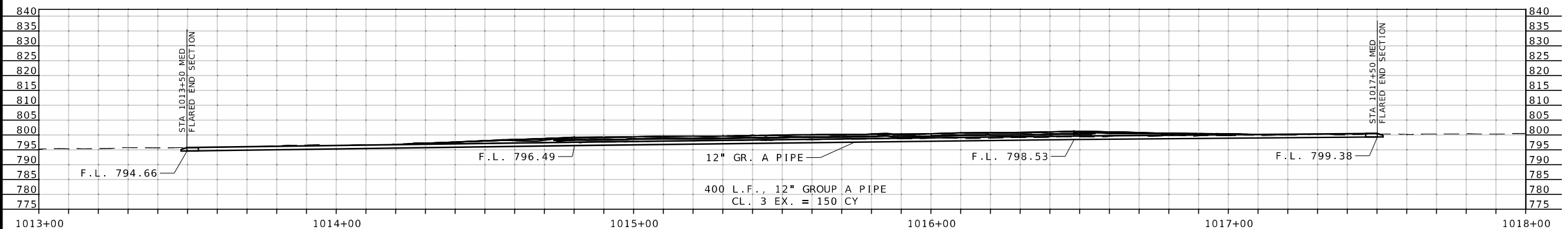
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



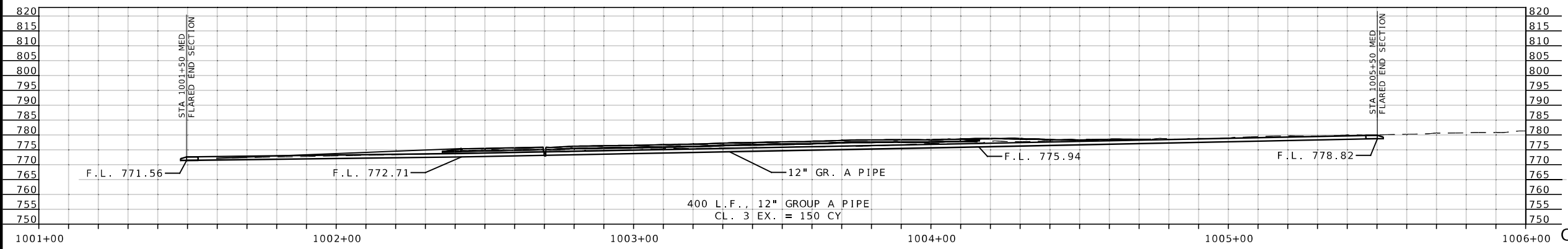
CR 225 EAST CROSSOVER



CR 225 WEST CROSSOVER

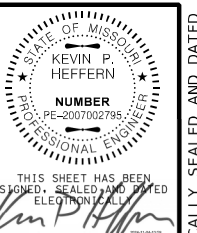


CR 211 EAST CROSSOVER



CR 211 WEST CROSSOVER

CULVERT SECTION
SHEET 1 OF 1



DATE PREPARED
11/4/2024
ROUTE
I-70 STATE
MO
DISTRICT
KC SHEET NO.
79
COUNTY
SALINE
JOB NO.
JST0016B
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION



Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

(42.3' - 67' - 67' - 42.3') PRESTRESSED CONCRETE SPREAD BOX BEAM SPANS

SEC/SUR 8 TWP 48N RGE 20W



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED	
11/5/2024	
ROUTE	STATE
I-70	MO
DISTRICT	SHEET NO.
BR	1
COUNTY	
SALINE	
JOB NO.	
JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
A9613	

NOTICE AND DISCLAIMER REGARDING BORING LOG DATA:

The locations of all subsurface borings for this structure are shown on the plan sheets for this structure. The boring data for all locations indicated, as well as any other boring logs or other factual records of subsurface data and investigations performed by the department for the design of this project, are shown on Sheets No. 27 thru 32 and may be included in the Electronic Bridge Deliverables. They will also be available from the Project Contact upon written request. No greater significance or weight should be given to the boring data depicted on the plan sheets than is given to the subsurface data available from the district or elsewhere.

The Commission does not represent or warrant that any such boring data accurately depicts the conditions to be encountered in constructing this project. A contractor assumes all risks it may encounter in basing its bid prices, time or schedule of performance on the boring data depicted here or those available from the district, or on any other documentation not expressly warranted, which the contractor may obtain from the Commission.

Notes:
 All bents are parallel.
 All longitudinal dimensions shown are horizontal.
 Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

Roadway fill shall be completed to the final roadway section and up to the elevation of the bottom of the concrete beam within the limits of the structure and not for less than 25 feet in back of the fill face of the end bents before any piles are driven for any bents falling within the embankment section.

Existing roadway fill under the ends of the bridge shall be removed as shown. Removal of existing roadway fill will be considered completely covered by the contract unit price for roadway excavation.

Point	Station	Offset	Vertical Clearance
A	1480.00	11.0 Lt.	17'-11" to inside EOP
B	1484.00	11.0 Lt.	18'-0" to inside EOS
C	1544.00	11.0 Lt.	17'-9" to outside EOP
D	1554.00	11.0 Lt.	17'-7" to outside EOS

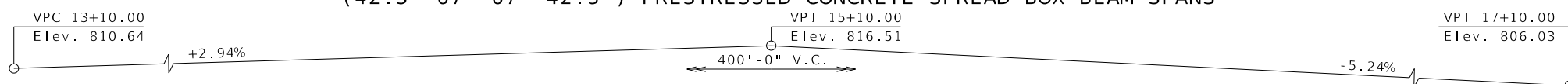
Station and offset in reference to C.R. 211.

Notes:
 ● Indicates location of proposed borings.
 (1) 18'-5" Horizontal Clearance
 (2) 21'-5" Horizontal Clearance

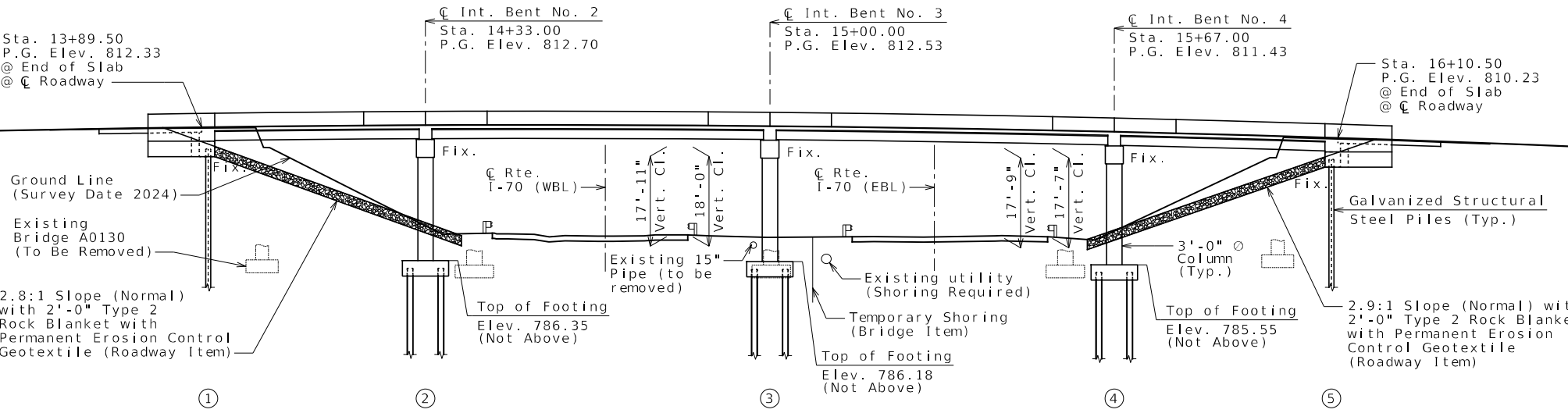


CP #104:
 1/2" Iron Pipe East of County Road 211 and South of I-70
 Elev. 809.950
 N=1679550.660
 E=516133.082

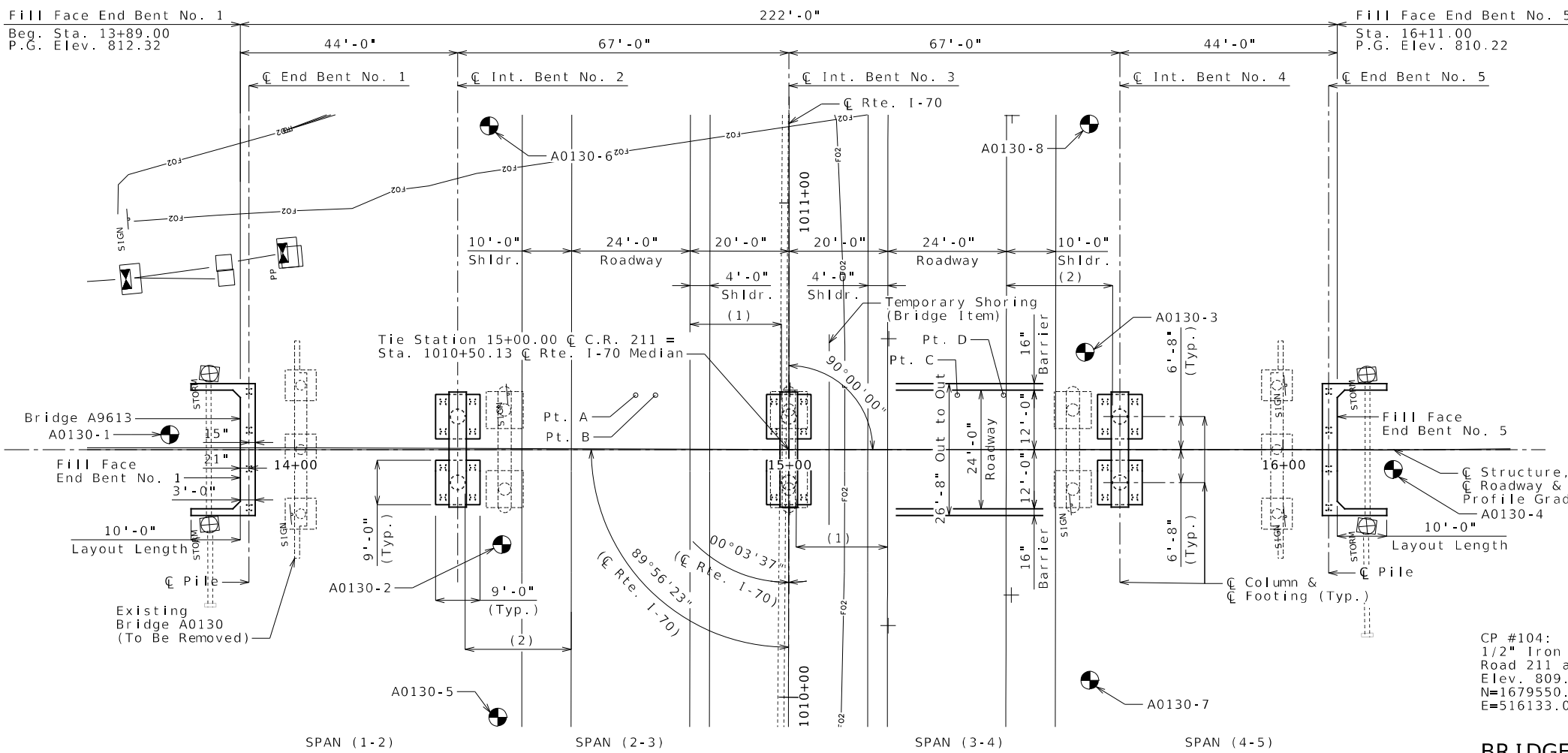
BRIDGE: COUNTY ROAD 211 OVER ROUTE 1-70
 ROUTE 1-70 FROM ROUTE 65 TO ROUTE J
 ABOUT 2.9 MILES WEST OF ROUTE J
 TIE STATION 1010+50.13



PROFILE



GENERAL ELEVATION



PLAN

Detailed: Sep. 2024
 Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of 32

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

BURNS & McDONNELL Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 BmCd Project No. 171819

Estimated Quantities				
Item		Substr.	Superstr.	Total
Class 1 Excavation	cu. yard	345		345
Temporary Shoring	lump sum			1
Removal of Bridges (A0130)	lump sum			1
Bridge Approach Slab (Minor)	sq. yard		109	109
Galvanized Structural Steel Piles (12 in.)	linear foot	844		844
Pre-Bore for Piling	linear foot	788		788
Pile Point Reinforcement	each	32		32
Class B Concrete (Substructure)	cu. yard	24.6		24.6
Class B-1 Concrete (Substructure)	cu. yard	117.3		117.3
Type H Barrier	linear foot		484	484
Slab on Concrete Beam	sq. yard		655	655
21 in., Prestressed Concrete Spread Box Beam	linear foot		654	654
Reinforcing Steel (Epoxy Coated)	pound	20,990		20,990
Vertical Drain at End Bents	each	2		2
Plain Neoprene Bearing Pad	each		3	3
Laminated Neoprene Bearing Pad	each		15	15
Laminated Neoprene Bearing Pad (Tapered)	each		6	6

All concrete above the construction joint in the end bents is included in the Estimated Quantities for Slab on Concrete Beam.

All reinforcement in the end bents is included in the Estimated Quantities for Slab on Concrete Beam.

All reinforcement in the intermediate bent concrete diaphragms except reinforcement embedded in the beam cap is included in the Estimated Quantities for Slab on Concrete Beam.

All concrete above the intermediate beam cap is included in the Estimated Quantities for Slab on Concrete Beam.

Estimated Quantities for Slab on Concrete Beam		
Item		Total
Class B-2 Concrete	cu. yard	153
Reinforcing Steel (Epoxy Coated)	pound	53,170

The table of Estimated Quantities for Slab on Concrete Beam represents the quantities used by the State in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard longitudinally from end of slab to end of slab and transversely from out to out of bridge slab (or with the horizontal dimensions as shown on the plan of slab). Payment for prestressed panels, conventional forms, all concrete and epoxy coated reinforcing steel will be considered completely covered by the contract unit price for the slab. Variations may be encountered in the estimated quantities but the variations cannot be used for an adjustment in the contract unit price.

Method of forming the slab shall be as shown on the plans and in accordance with Sec 703. All hardware for forming the slab to be left in place as a permanent part of the structure shall be coated in accordance with ASTM A123 or ASTM B633 with a thickness class SC 4 and a finish type I, II or III.

Class B-2 Concrete quantity is based on minimum top flange thickness and minimum joint material thickness.

The prestressed panel quantities are not included in the table of Estimated Quantities for Slab on Concrete Beam.

GENERAL NOTES:

DESIGN SPECIFICATIONS:
2020 AASHTO LRFD Bridge Design Specifications (9th Ed.)
Seismic Design Category = A

DESIGN LOADING:
Vehicular = HL-93 (95% per LRFD C3.6.1.1.2, ADTT = 22)
Future Wearing Surface = 35 lb/sf
Earth = 120 lb/cf
Equivalent Fluid Pressure = 45 lb/cf (Min.)
Superstructure: Simply-Supported, Non-composite for dead load.
Continuous Composite for live load.

DESIGN UNIT STRESSES:
Class B Concrete (Substructure, End Bents) f'c = 3,000 psi
Class B-1 Concrete (Substructure Intermediate Bents & Barrier) f'c = 4,000 psi
Class B-2 Concrete (Superstructure, except Prestressed Beams & Barrier) f'c = 4,000 psi
Reinforcing Steel (ASTM A615 Grade 60) fy = 60,000 psi
Structural Steel HP Pile (ASTM A709 Grade 50) fy = 50,000 psi

For precast prestressed panel stresses, see Sheet No. 16.
For prestressed box beam stresses, see Sheets No. 13 thru 14.

NEOPRENE PADS:
Neoprene bearing pads shall be 60 durometer and shall be in accordance with Sec 716.

JOINT FILLER:
All joint filler shall be in accordance with Sec. 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

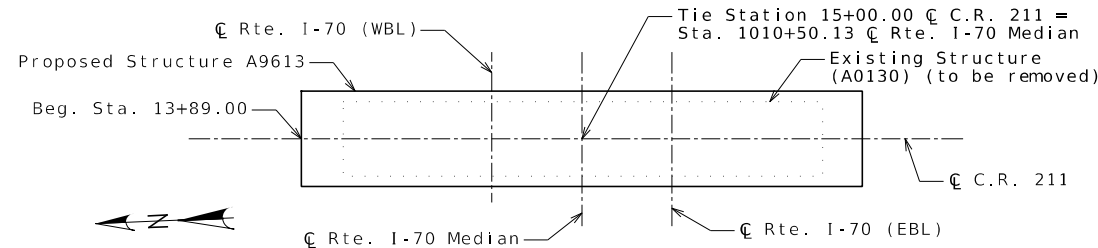
REINFORCING STEEL:
Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

TRAFFIC HANDLING:
Vertical clearance for Route I-70 traffic during construction shall be 15'-6" minimum over a 24'-0" wide horizontal opening of the roadway in each direction.

Structure to be closed during construction. Traffic to be maintained on other routes during construction. See roadway plans for traffic control.

MISCELLANEOUS:
MoDOT Construction personnel will indicate the type of joint filler option used under the precast panels for this structure:

- Constant Joint Filler
- Variable Joint Filler



LOCATION SKETCH

Foundation Data						
Type	Design Data	Bent Number				
		1	2	3	4	5
Load Bearing Pile	Pile Type and Size	HP 12x53	HP 12x53	HP 12x53	HP 12x53	HP 12x53
	Number	4	8	8	8	4
	Approximate Length Per Each	ft 36	24	24	23	33
	Pile Point Reinforcement	ea ALL	ALL	ALL	ALL	ALL
	Min. Galvanized Penetration (Elev.)	ft Full Length	Full Length	Full Length	Full Length	Full Length
	Pile Driving Verification Method	Hard Rock*	Hard Rock*	Hard Rock*	Hard Rock*	Hard Rock*

*Prebore for piles at Bents No. 1, 2, 3, 4 and 5 to elevations 773.0, 761.0, 761.0, 761.0 and 773.0, respectively. Ensure Piles are seated on sound rock and not rubble. Piles shall be seated with the pile hammer to ensure refusal on hard rock in accordance with Sec 702 and no additional pile driving verification method is required.

Manufactured pile point reinforcement shall be used on all piles in this structure.

All piles shall be galvanized down to minimum galvanized penetration (elevation).

Pile point reinforcement need not be galvanized. Shop drawings will not be required for pile point reinforcement.

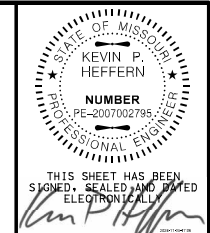
HP piles are anticipated to be driven to refusal on rock. Review all borings for depth of rock and restrict driving as appropriate to comply with hard rock driving criteria in accordance with Sec 702. When pile refusal on rock occurs, as approved by the engineer, the minimum nominal axial compressive resistance is verified and no additional pile driving verification method is required.

GENERAL NOTES & QUANTITIES

Detailed: Sep. 2024
Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 2 of 32



DATE PREPARED		11/5/2024	
ROUTE	STATE		
I-70	MO		
DISTRICT	SHEET NO.		
BR	2		
COUNTY			
SALINE			
JOB NO.			
JST0016B			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			
A9613			

DATE	DESCRIPTION

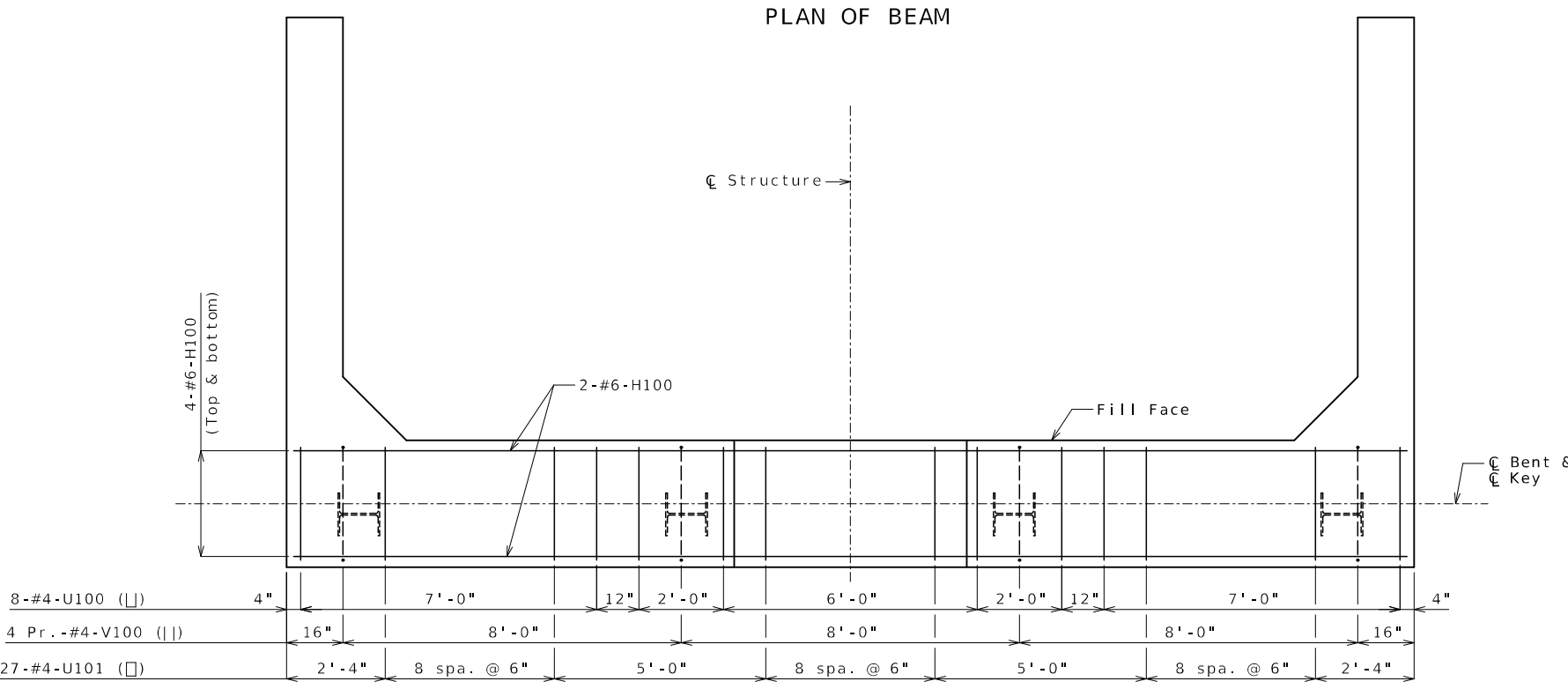
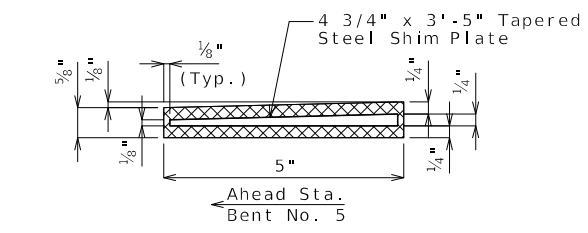
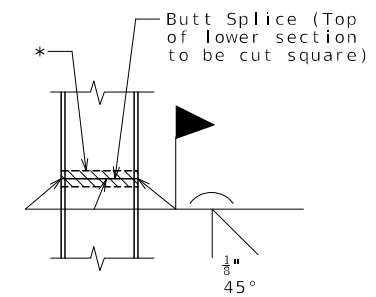
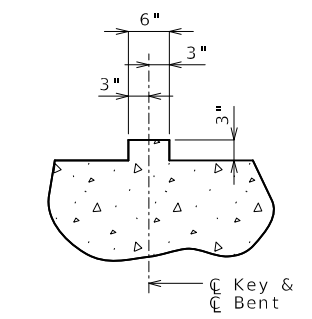
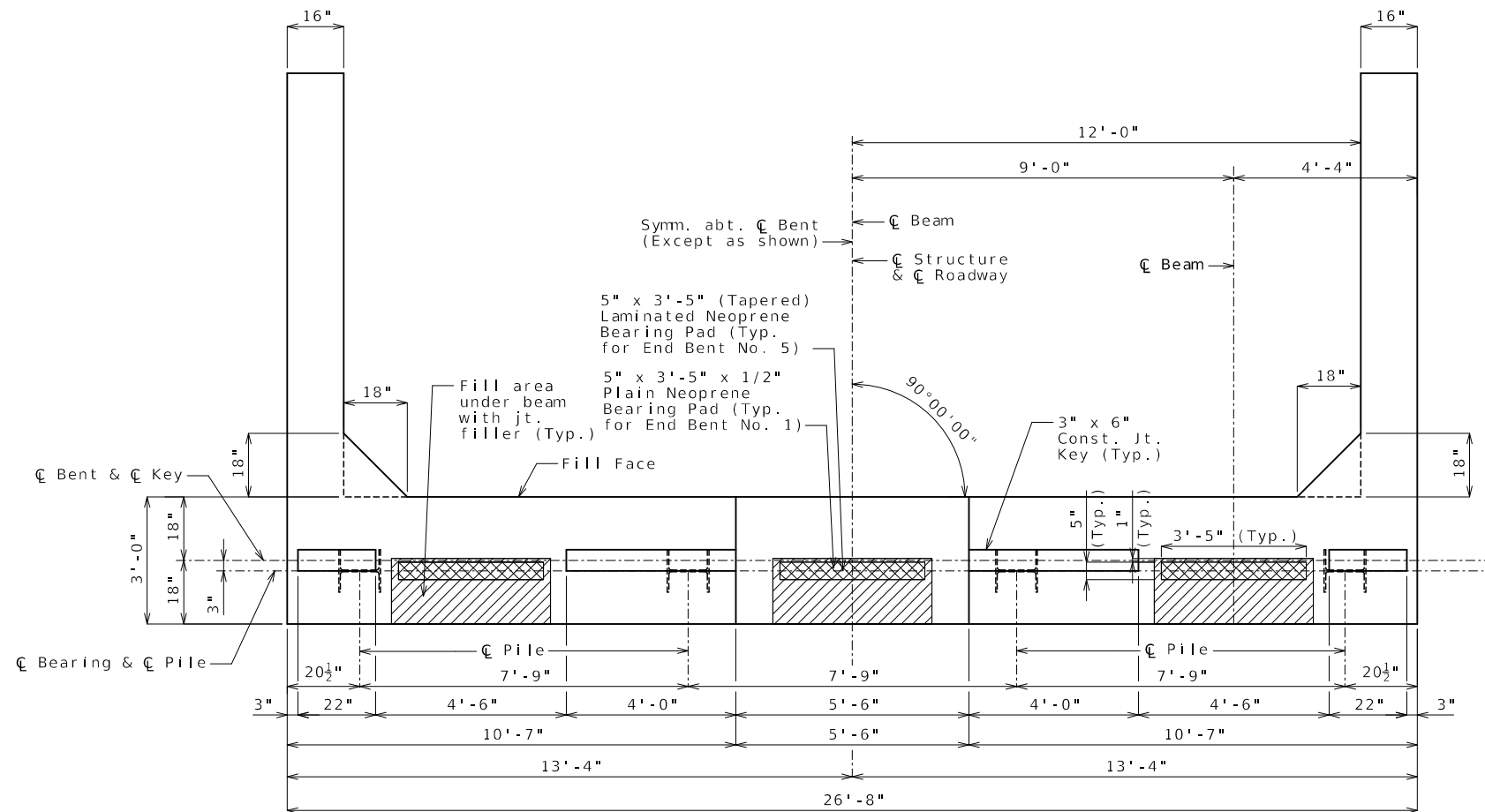
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165
BMcD Project No. 171819



SECTION THRU KEY

STEEL PILE SPLICE
(If required)

SECTION THRU LAMINATED NEOPRENE BEARING PAD (TAPERED)

PLAN OF BEAM

PLAN OF BEAM SHOWING REINFORCEMENT

Keys not shown for clarity.

Notes:

Work this sheet with Sheets No. 4 & 5.

Reinforcing steel shall be shifted to clear piles. U bars shall clear piles by at least 1 1/2 inches.

Substructure Quantity Table for Bent No. 1		
Item		Quantity
Class 1 Excavation	cu. yard	30
Galvanized Structural Steel Pile (12 in.)	linear foot	144
Pre-Bore for Piling	linear foot	136
Pile Point Reinforcement	each	8
Class B Concrete (Substructure)	cu. yard	12.3

These quantities are included in the Estimated Quantities table on Sheet No. 2.

Substructure Quantity Table for Bent No. 5		
Item		Quantity
Class 1 Excavation	cu. yard	30
Galvanized Structural Steel Pile (12 in.)	linear foot	132
Pre-Bore for Piling	linear foot	124
Pile Point Reinforcement	each	8
Class B Concrete (Substructure)	cu. yard	12.3

These quantities are included in the Estimated Quantities table on Sheet No. 2.

END BENTS NO. 1 & 5
PLAN AND REINFORCING DETAILS



Alex C. Benz
11/05/2024 9:31:23 AM
Alex Benz - Civil
MO PE-2018003121

DATE PREPARED 11/5/2024	
ROUTE I-70	STATE MO
DISTRICT BR	SHEET NO. 3
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9613	

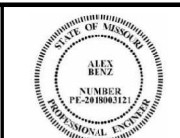
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.


 Alex Benz
 11/05/2024 9:33:13 AM
 Alex Benz - Civil
 MO PE-201800312

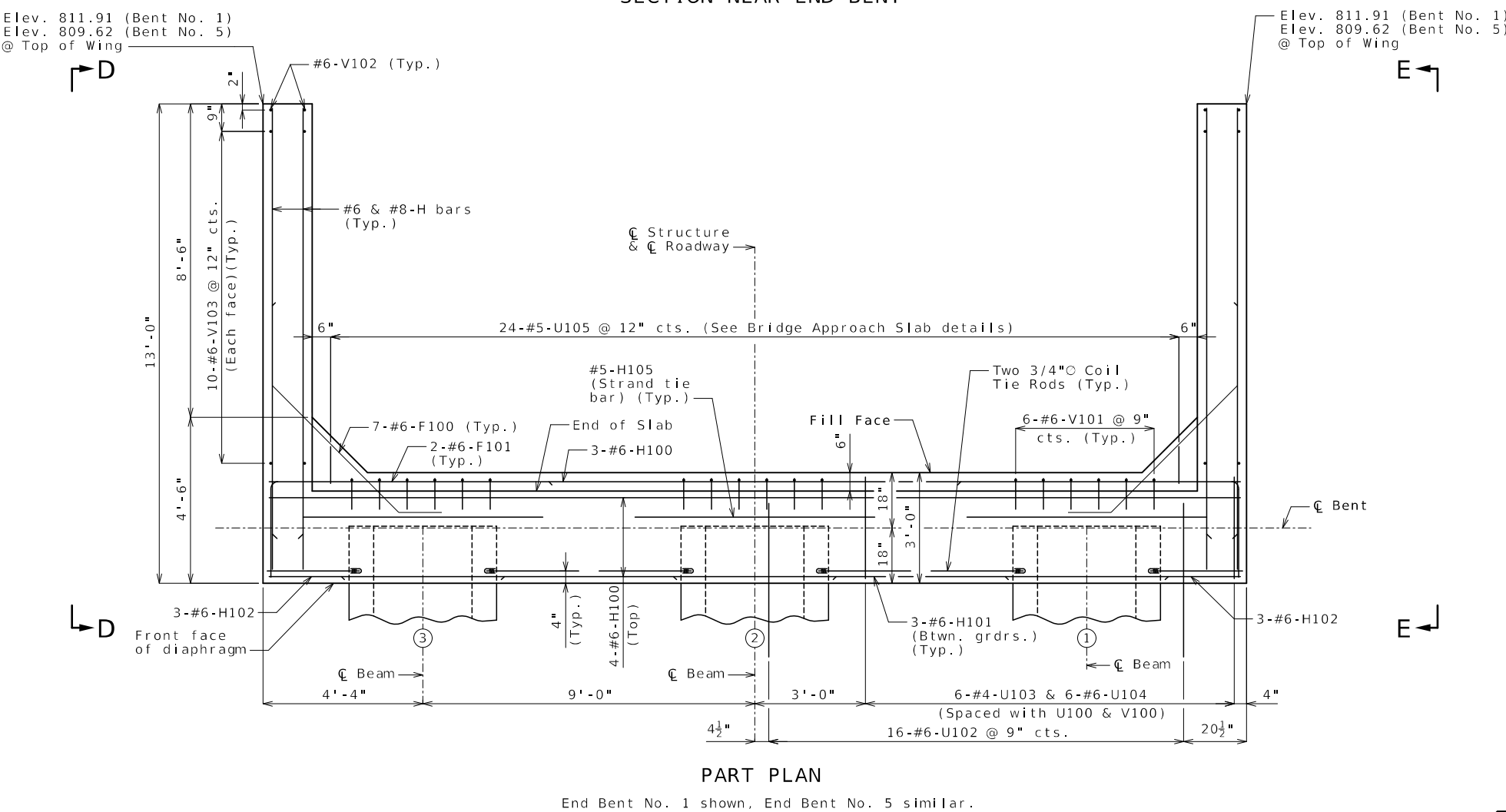
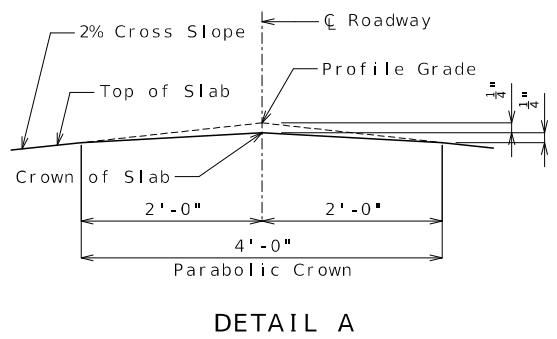
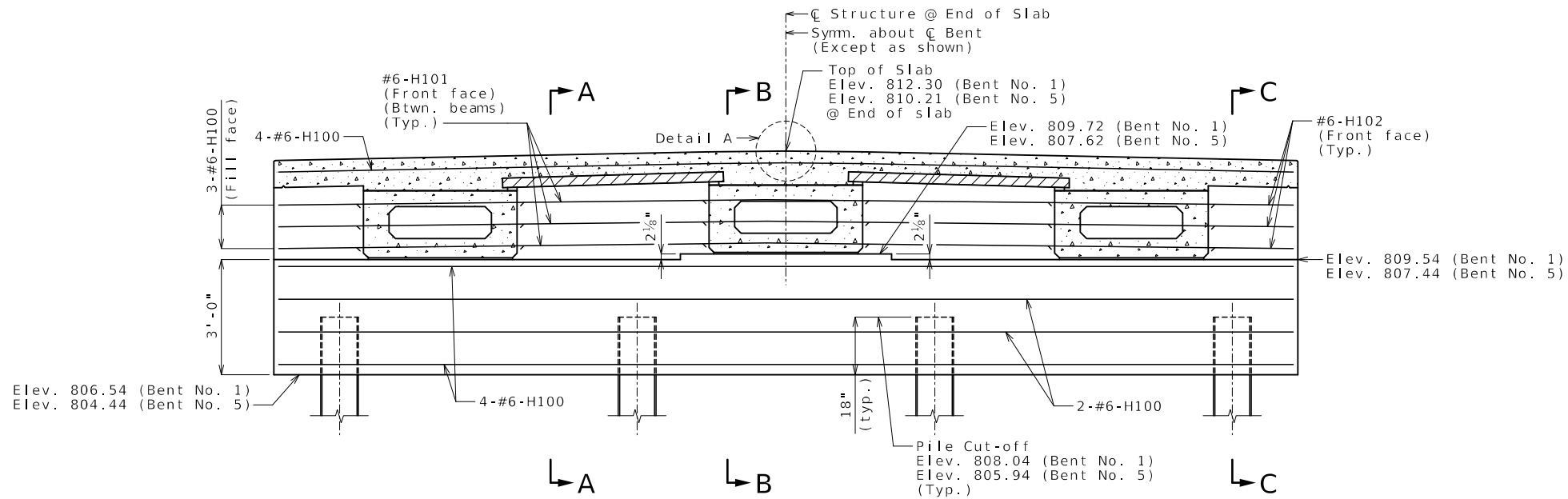
DATE PREPARED
 11/5/2024
 ROUTE I-70 STATE MO
 DISTRICT BR SHEET NO. 4
 COUNTY SALINE
 JOB NO. JST0016B
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO. A9613

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578



General Notes:
 Work this sheet with Sheets No. 3 & 5.
 For Sections A-A, B-B & C-C and Elevation D-D & E-E, see Sheet No. 5.
 The #6-F100 bars shall be bent in the field to clear beams.
 All concrete in the end bent above top of beam and below top of slab shall be Class B-2.
 Strands at end of beams shall be field bent or, if necessary, cut in field to maintain 1/2-inch minimum clearance to fill face of end bent.
 For location of coil tie rods and #5-H105 (strand tie bar), see Sheet No. 13.
 For details of vertical drain at end bents, see Sheet No. 6.
 For details of bridge approach slab, see Sheet No. 22.

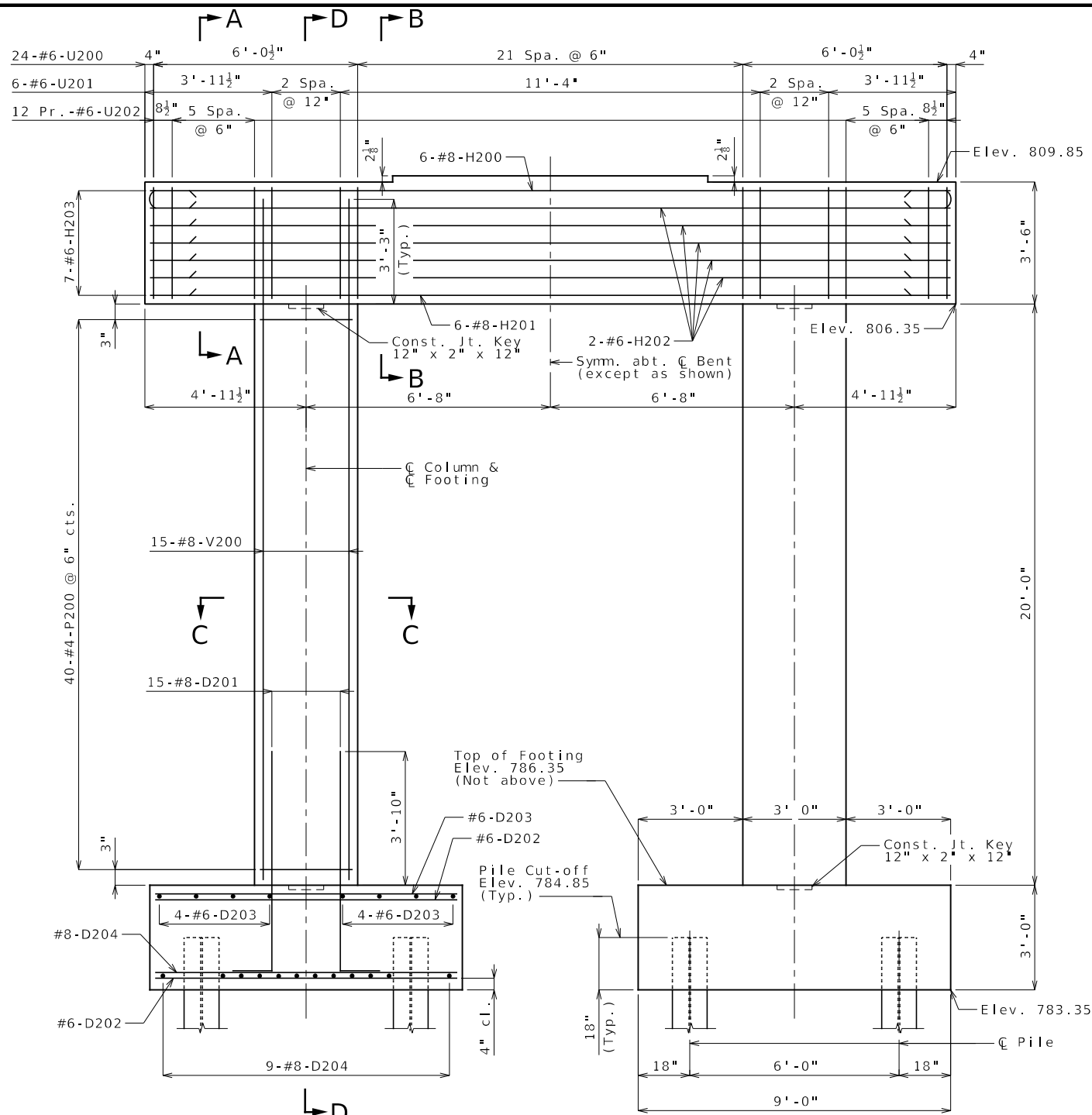
**END BENTS NO. 1 & 5
 PLAN AND ELEVATION**

Detailed: Sep. 2024
 Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

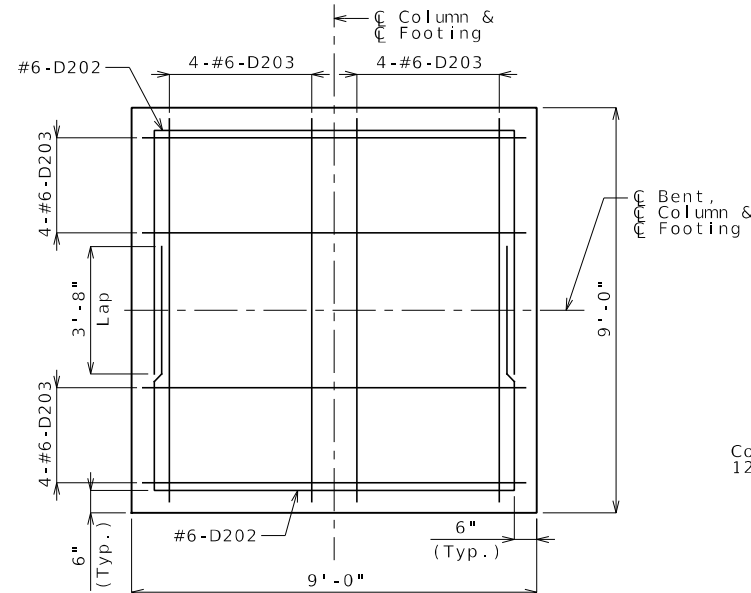
Sheet No. 4 of 32

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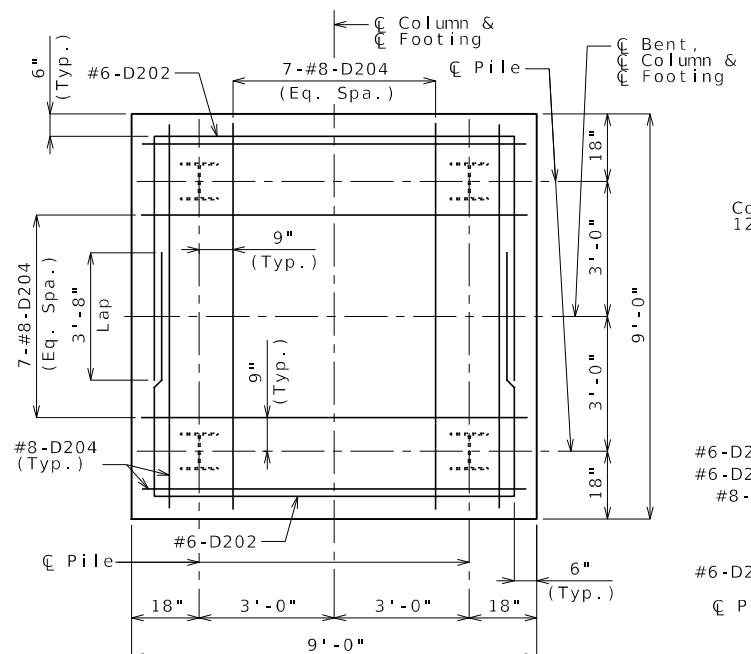


ELEVATION

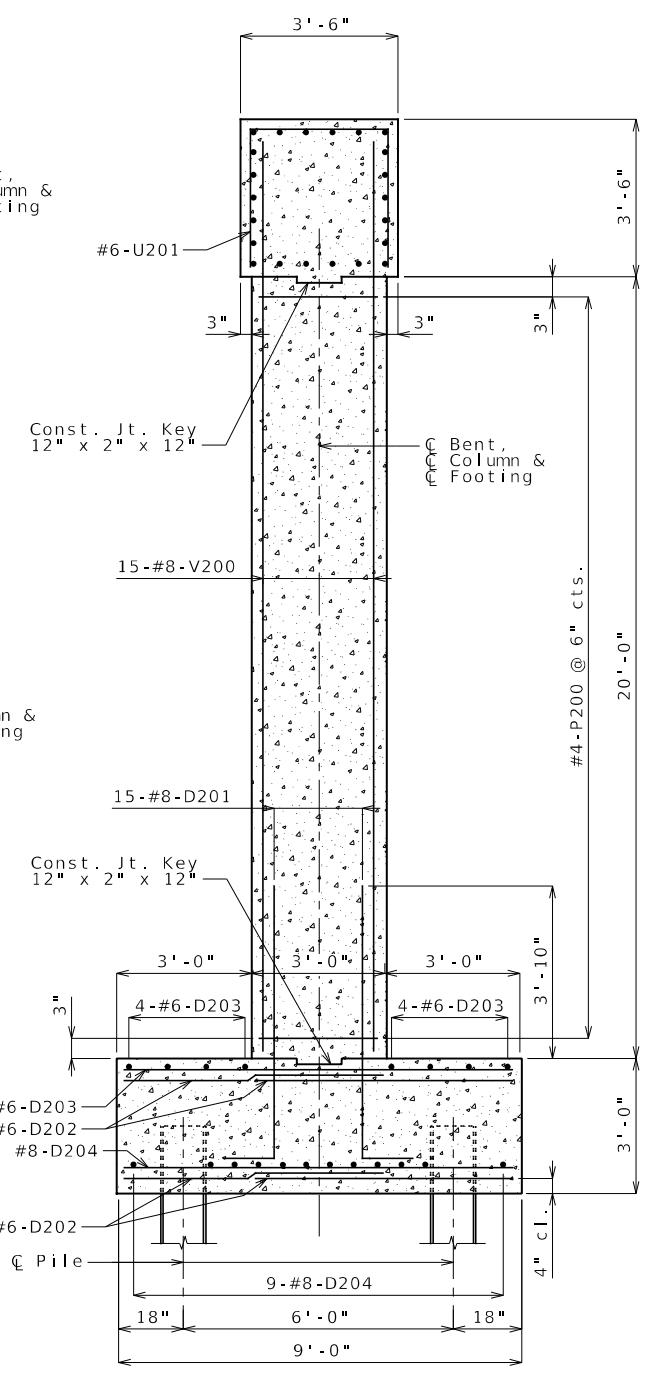
Note: Keys on beam not shown for clarity.



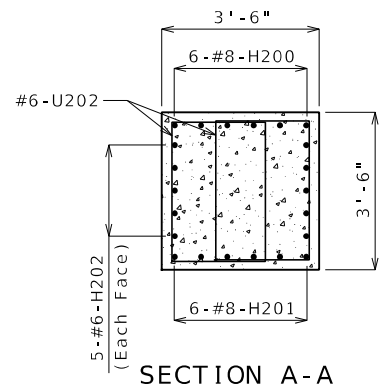
PLAN OF FOOTING SHOWING TOP REINFORCEMENT



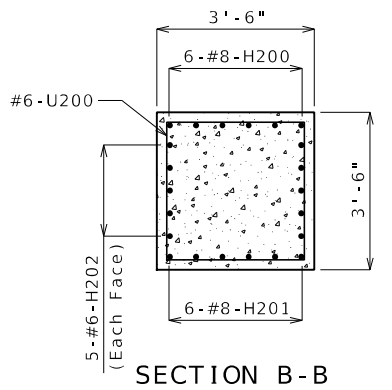
PLAN OF FOOTING SHOWING BOTTOM REINFORCEMENT



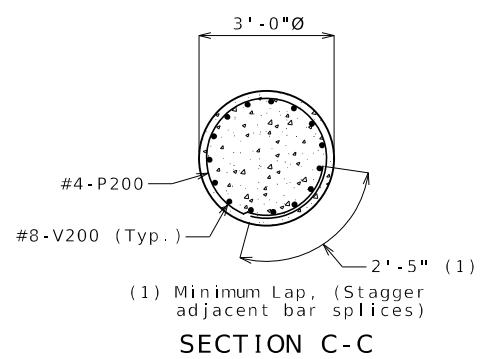
SECTION D-D



SECTION A-A



SECTION B-B



SECTION C-C

NOTES:
Work this sheet with Sheet No. 8.

DETAILS OF INTERMEDIATE BENT NO. 2

Detailed: Sep. 2024
Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 7 of 32



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

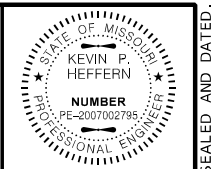
DATE PREPARED 11/5/2024	
ROUTE I-70	STATE MO
DISTRICT BR	SHEET NO. 7
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9613	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BlcD Project No. 171819



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
11/5/2024
ROUTE
I-70
STATE
MO
DISTRICT
BR
SHEET NO.
8
COUNTY
SALINE
JOB NO.
JST0016B
CONTRACT ID.

PROJECT NO.

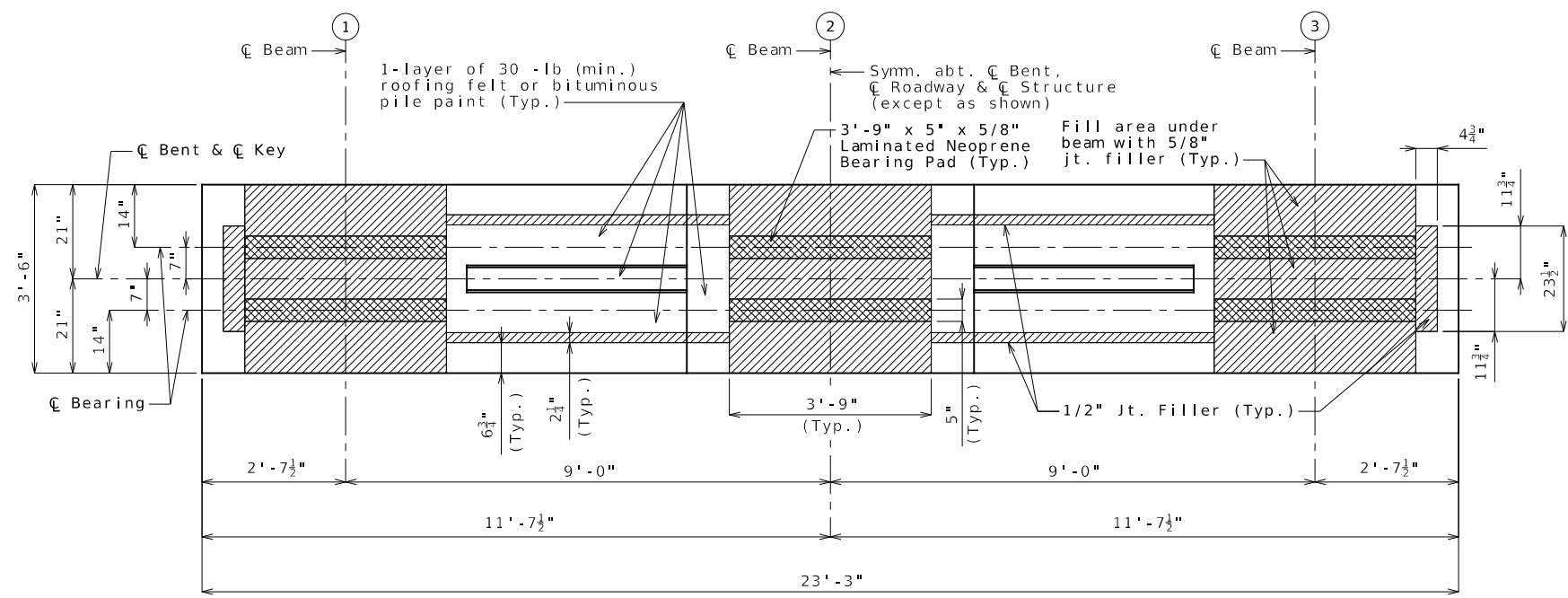
BRIDGE NO.
A9613

DESCRIPTION	DATE

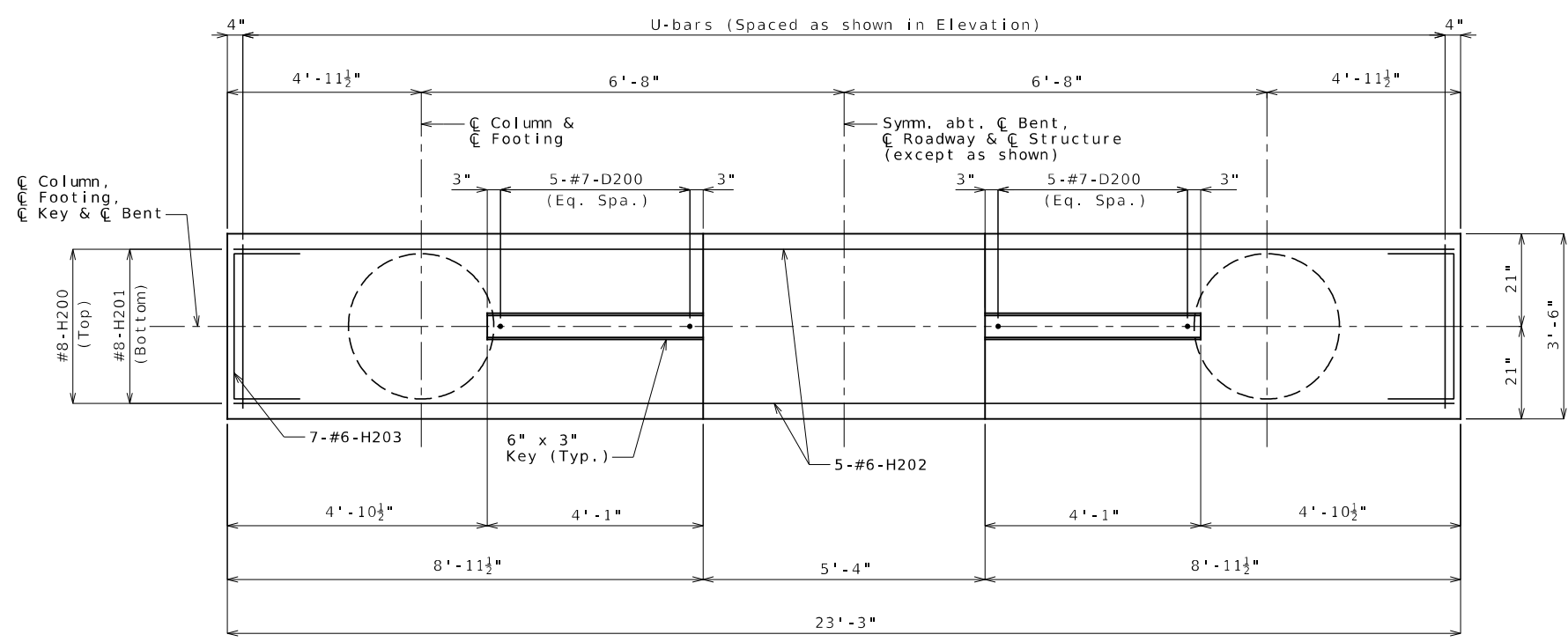
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

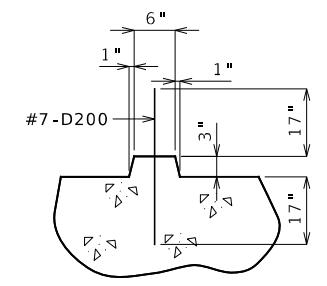
Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 Bmcd Project No. 171819



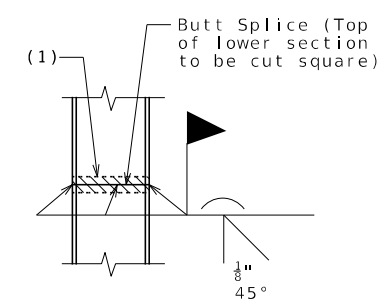
PLAN OF BEAM



PLAN OF BEAM SHOWING REINFORCEMENT



SECTION THRU KEY

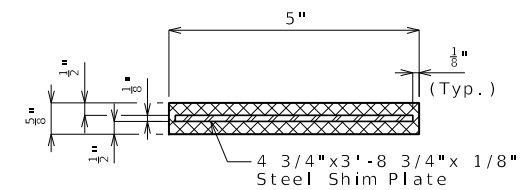


STEEL PILE SPLICE (If required)

(1) Galvanizing material shall be omitted or removed one inch clear of weld locations in accordance with Sec 702.

NOTES:
 Work this sheet with Sheet No. 7.
 For steps 2 inches or more, use 2 1/4 x 1/2 inch joint filler up vertical face.

Item	Quantity
Class 1 Excavation	cu. yard 105
Galvanized Structural Steel Piles (12 in.)	linear foot 192
Pre-Bore for Piling	linear foot 176
Class B-1 Concrete (Substructure)	cu. yard 39.2
Reinforcing Steel (Epoxy Coated)	pound 7,010



SECTION THRU 5" X 3'-9" X 5/8" LAMINATED NEOPRENE BEARING PAD

These quantities are included in the Estimated Quantities table on Sheet No. 2.
 Detailed: Sep. 2024
 Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 8 of 32

DETAILS OF INTERMEDIATE BENT NO. 2



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
11/5/2024

ROUTE 1-70 STATE MO
DISTRICT BR SHEET NO. 10

COUNTY SALINE
JOB NO. JST0016B
CONTRACT ID.

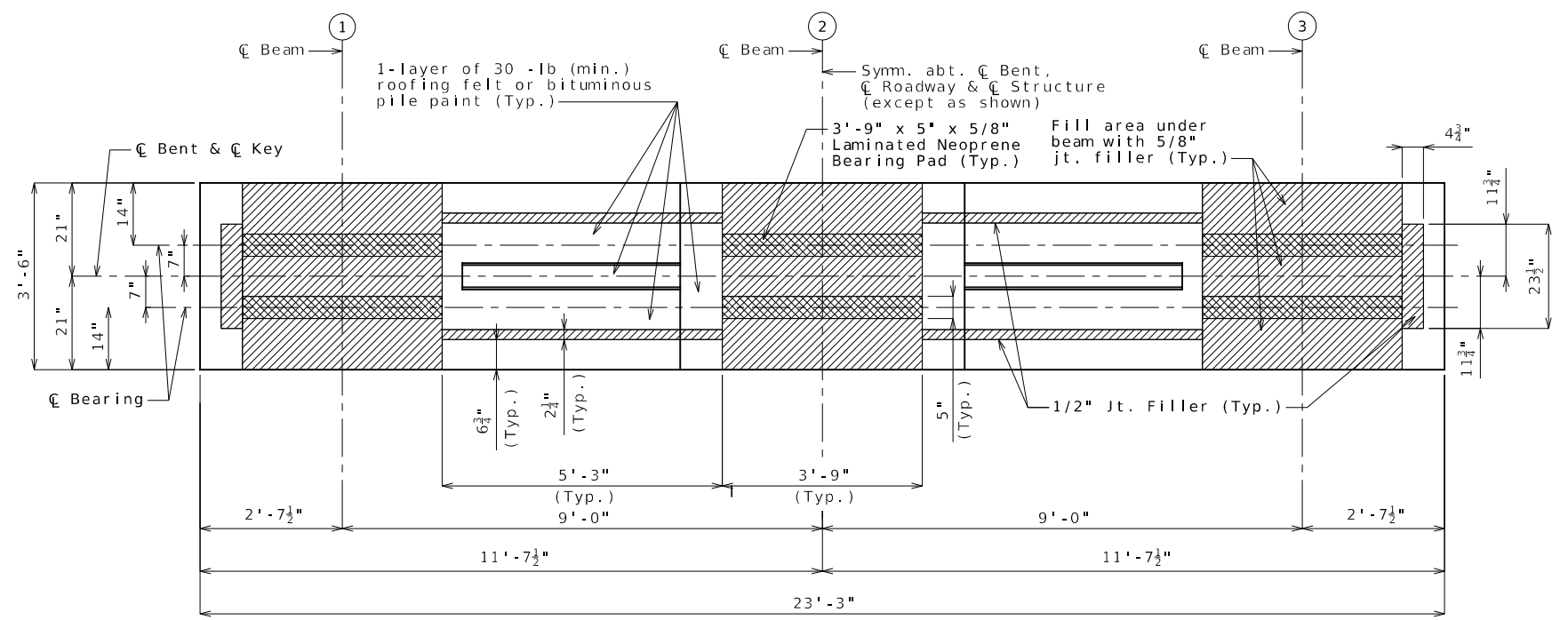
PROJECT NO.
BRIDGE NO. A9613

DATE	DESCRIPTION

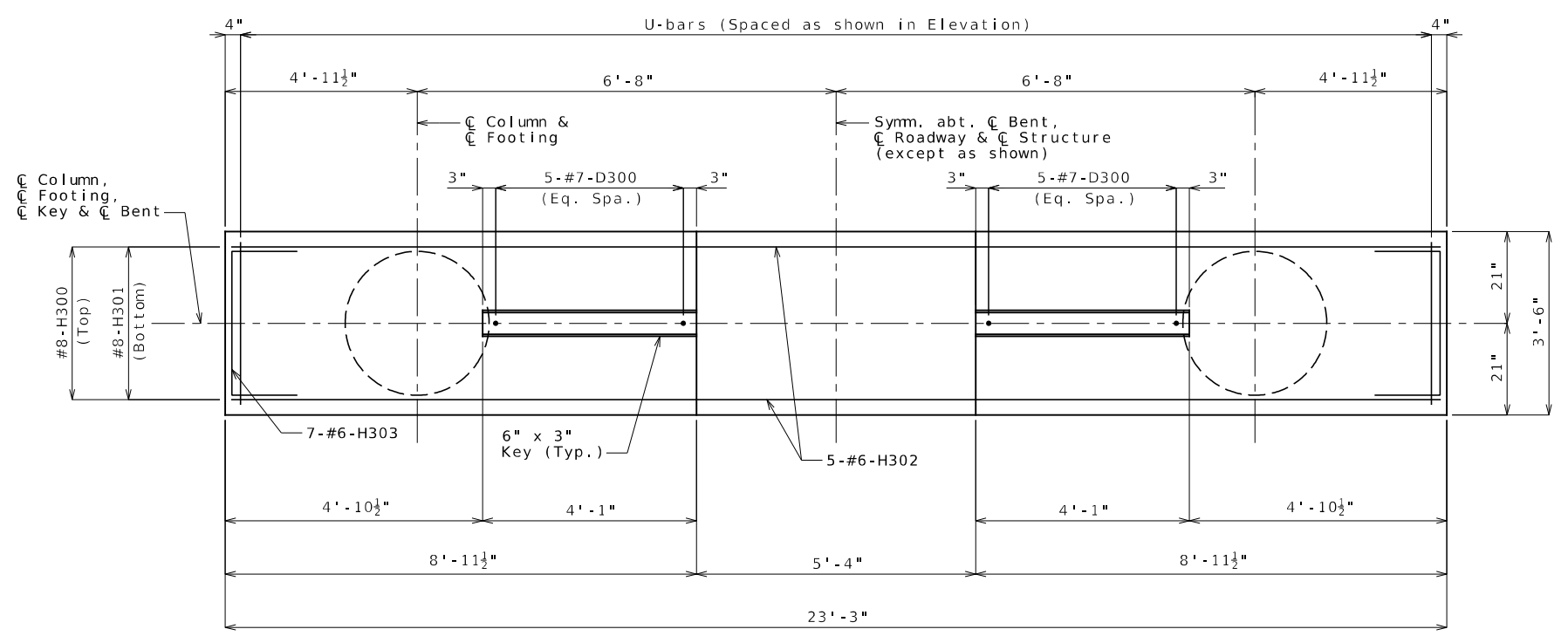
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

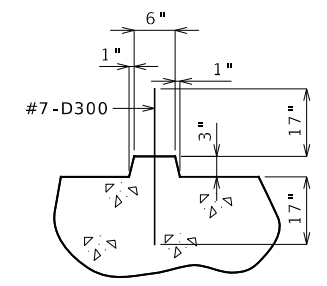
Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority No. : 000165
 Bldg Project No. 171819



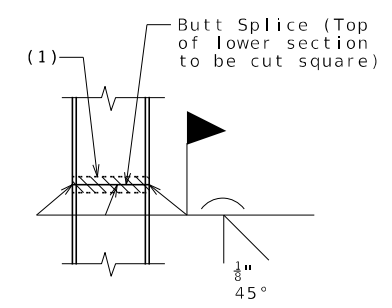
PLAN OF BEAM



PLAN OF BEAM SHOWING REINFORCEMENT



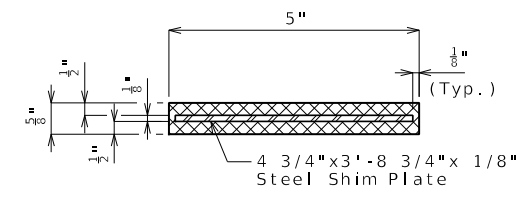
SECTION THRU KEY



STEEL PILE SPLICE (If required)

(1) Galvanizing material shall be omitted or removed one inch clear of weld locations in accordance with Sec 702.

NOTES:
 Work this sheet with Sheet No. 9.
 For steps 2 inches or more, use 2 1/4 x 1/2 inch joint filler up vertical face.



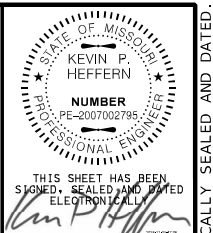
SECTION THRU 5" X 3'-9" X 5/8" LAMINATED NEOPRENE BEARING PAD

Item	Quantity
Class 1 Excavation	cu. yard 70
Galvanized Structural Steel Piles (12 in.)	linear foot 192
Pre-Bore for Piling	linear foot 176
Class B-1 Concrete (Substructure)	cu. yard 39.2
Reinforcing Steel (Epoxy Coated)	pound 7,010

These quantities are included in the Estimated Quantities table on Sheet No. 2.
 Detailed: Sep. 2024
 Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 10 of 32

DETAILS OF INTERMEDIATE BENT NO. 3



DATE PREPARED 11/5/2024	
ROUTE I-70	STATE MO
DISTRICT BR	SHEET NO. 12
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9613	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

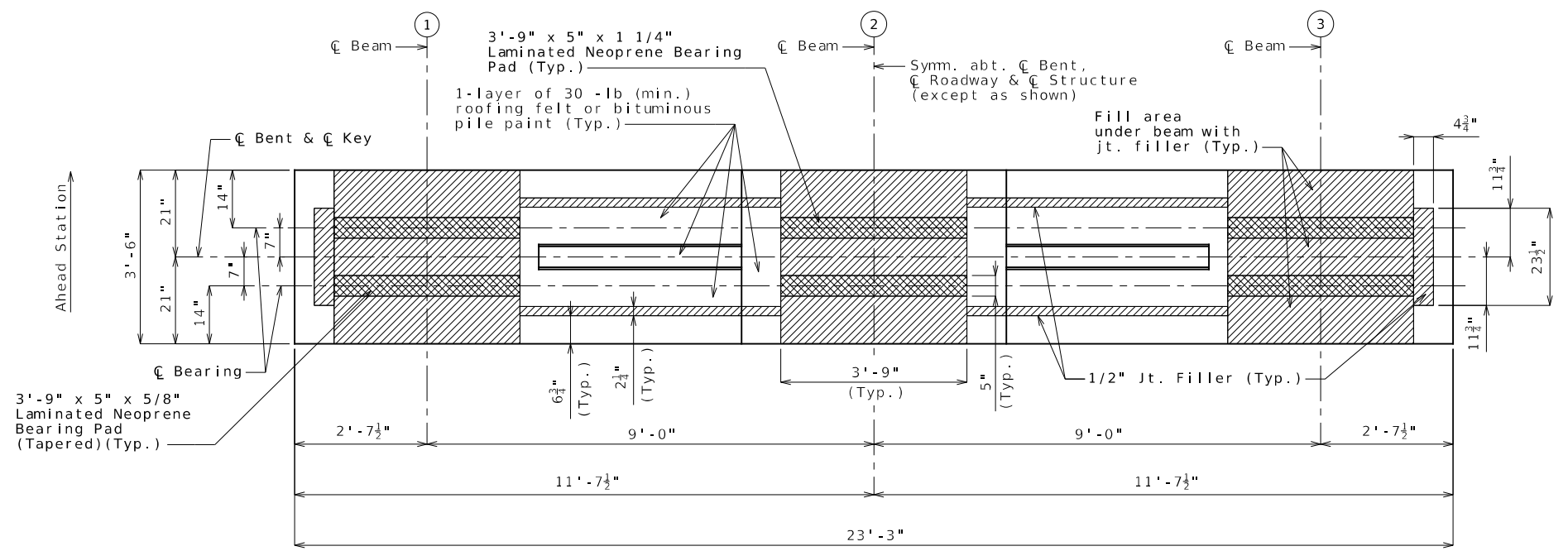
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

Burns & McDonnell Engineering Co., Inc.

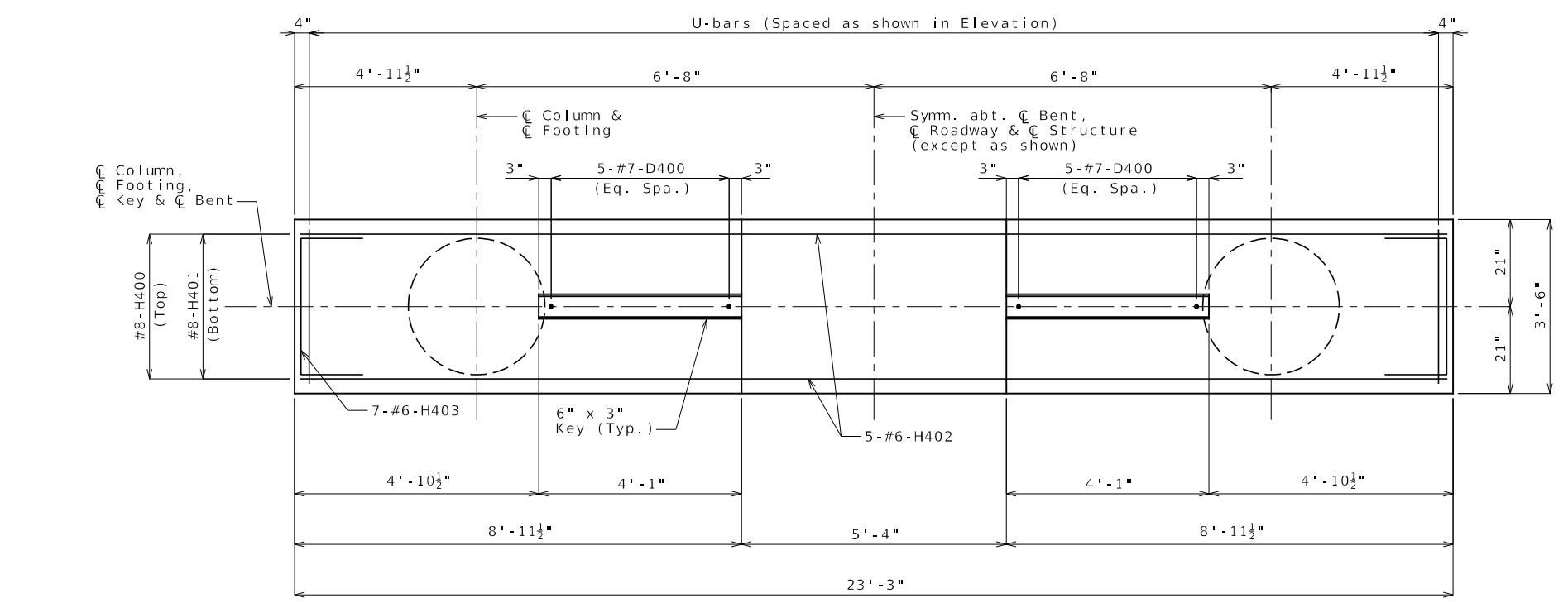
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165
BMcD Project No. 171819

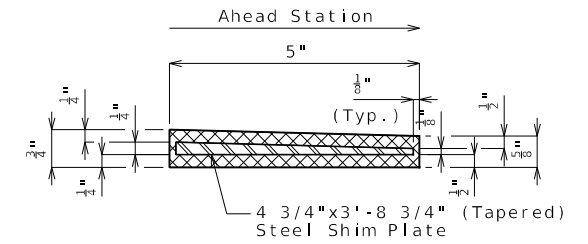
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



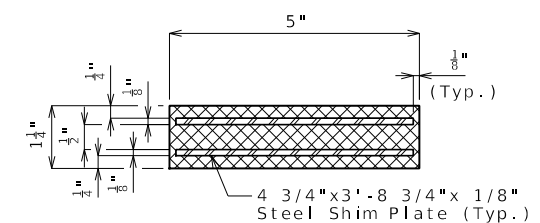
PLAN OF BEAM



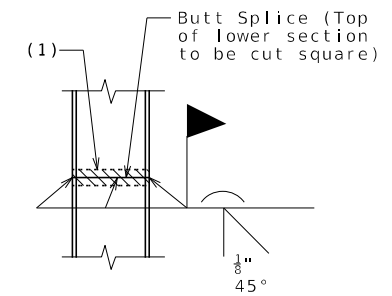
PLAN OF BEAM SHOWING REINFORCEMENT



SECTION THRU 5" X 3'-9" X 5/8" LAMINATED NEOPRENE BEARING PAD (TAPERED)
(3 Required at back bearing)



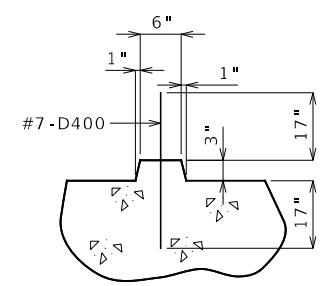
SECTION THRU 5" X 3'-9" X 1 1/4" LAMINATED NEOPRENE BEARING PAD
(3 Required at forward bearing)



STEEL PILE SPLICE
(If required)

(1) Galvanizing material shall be omitted or removed one inch clear of weld locations in accordance with Sec 702.

NOTES:
Work this sheet with Sheet No. 11.
For steps 2 inches or more, use 2 1/4 x 1/2 inch joint filler up vertical face.



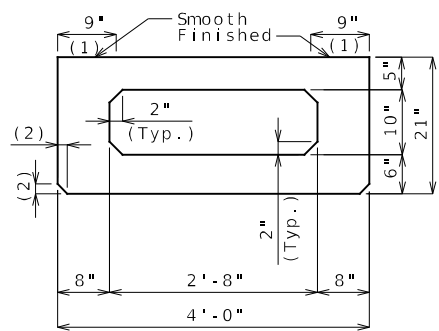
SECTION THRU KEY

Item	Quantity
Class 1 Excavation	cu. yard 110
Galvanized Structural Steel Piles (12 in.)	linear foot 184
Pre-Bore for Piling	linear foot 176
Class B-1 Concrete (Substructure)	cu. yard 38.9
Reinforcing Steel (Epoxy Coated)	pound 6,960

These quantities are included in the Estimated Quantities table on Sheet No. 2.
Detailed: Sep. 2024
Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

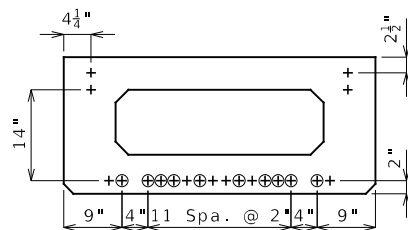
DETAILS OF INTERMEDIATE BENT NO. 4



DIMENSIONS

(1) Fabricator shall apply a bond breaker to this region excluding where joint filler will be applied.

(2) 1 1/2" (Typ.) (3/4" Optional)

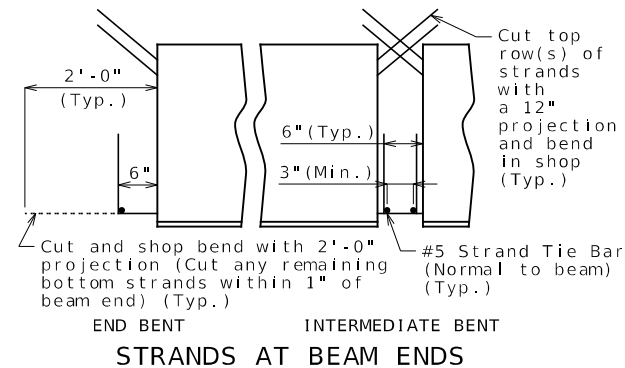


STRAND ARRANGEMENT

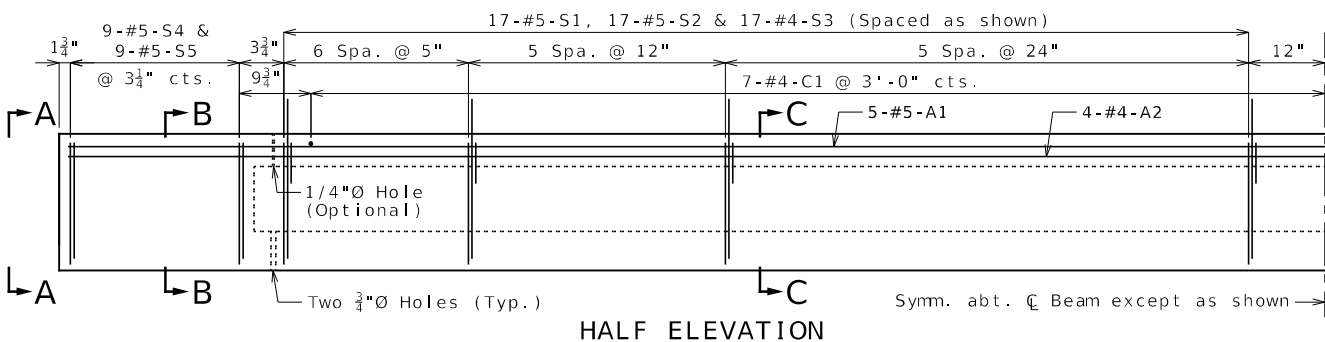
All strands are fully bonded unless otherwise noted.

+ Indicates prestressing strand.

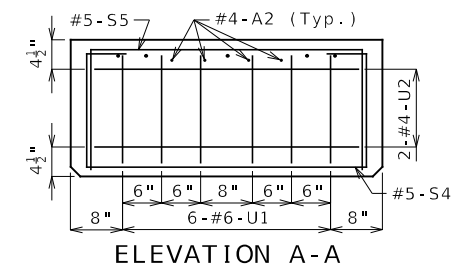
O Indicates cut and shop bend with 2'-0" projection.



STRANDS AT BEAM ENDS

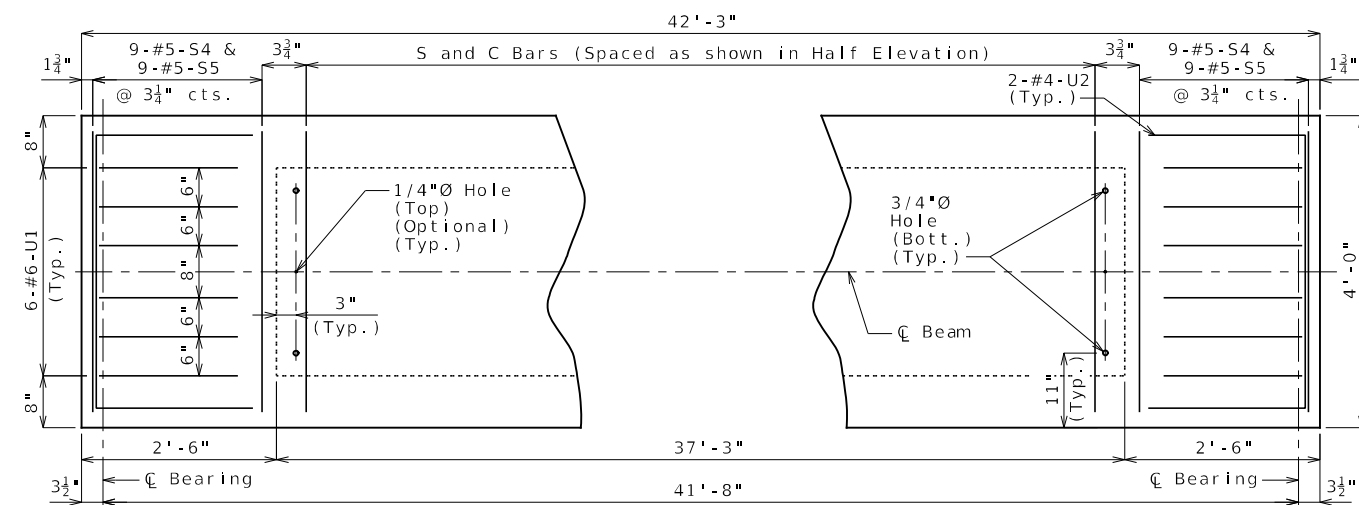


HALF ELEVATION

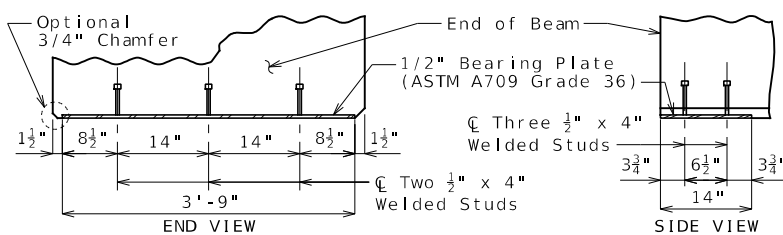


ELEVATION A-A

Strands not shown for clarity.



PART PLAN

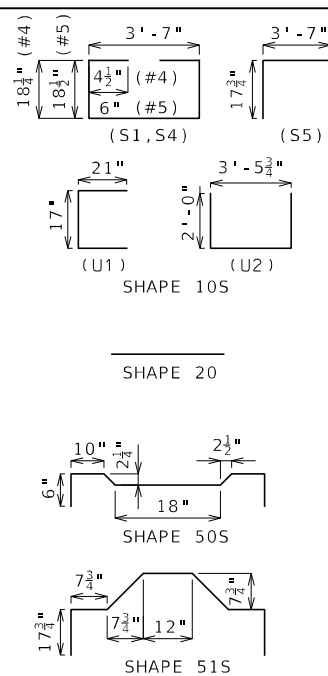


BEARING PLATE

Detailed: Sep. 2024
Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

BILL OF REINFORCING STEEL - EACH BEAM			
NO.	SIZE & MARK	ACTUAL LENGTH	SHAPE
5	5 A1	42'-0"	20
4	4 A2	42'-0"	20
13	4 C1	3'-7"	20
34	5 S1	7'-3"	10S
34	5 S2	6'-9"	51S
34	4 S3	4'-6"	50S
18	5 S4	7'-3"	10S
18	5 S5	6'-4"	10S
12	6 U1	4'-7"	10S
4	4 U2	7'-4"	10S



All dimensions are out to out. Use symmetry for dimensions not shown.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Actual lengths are measured along centerline of bar to the nearest inch.

Minimum clearance to reinforcing shall be one inch, unless otherwise shown.

All reinforcement shall be Grade 60.
All S2 bars shall be epoxy coated.

General Notes:

Concrete for prestressed beams shall be Class A-1 with f'c = 8000 psi and f'ci = 6500 psi.

Use 20 strands, 0.6"Ø Grade 270, with an initial prestress force of 879 kips.

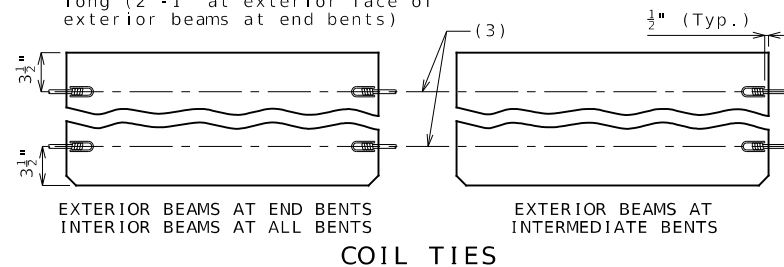
Pretensioned members shall be in accordance with Sec 1029.

Fabricator shall be responsible for location and design of lifting devices.

Exterior and interior beams are the same except: coil ties.
For Beam Camber Diagram, see Sheet No. 17.

For location of coil ties at concrete bent diaphragms, see Sheets No. 4 and 15.

(3) 3/4"Ø (Min.) Coil Tie Rods 2'-6" long (2'-1" at exterior face of exterior beams at end bents)



COIL TIES

**SPREAD BOX BEAMS
SPANS (1-2) AND (4-5)**



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
11/5/2024

ROUTE I-70 STATE MO

DISTRICT BR SHEET NO. 13

COUNTY SALINE

JOB NO. JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A9613

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

BURNS & McDONNELL Engineering Co., Inc.

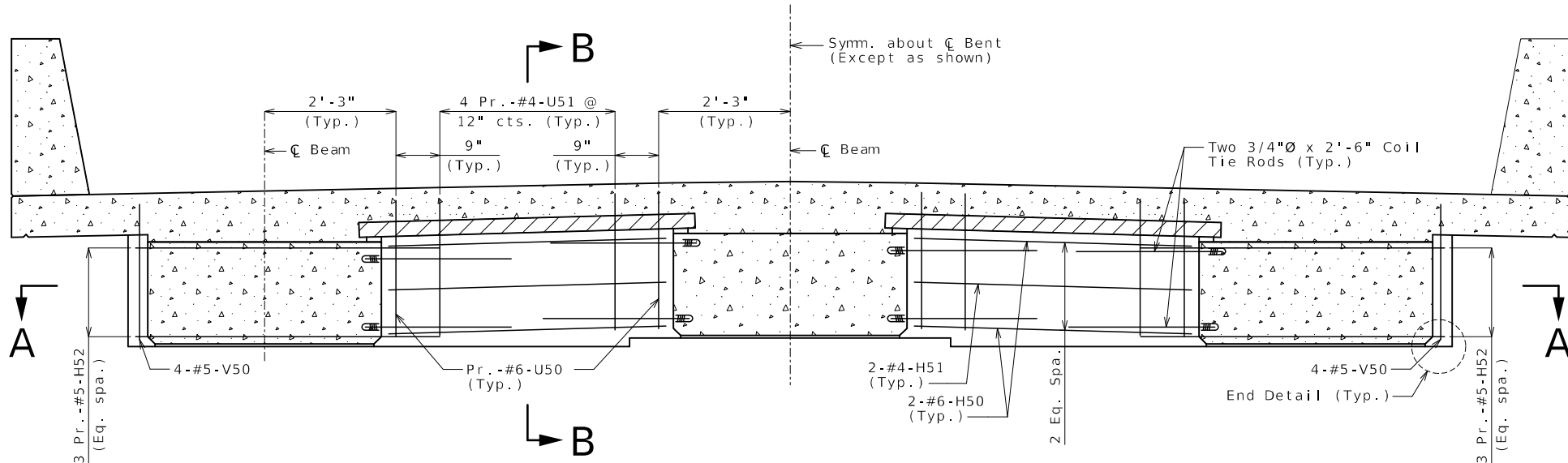
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400

Certificate of Authority
No. : 000165

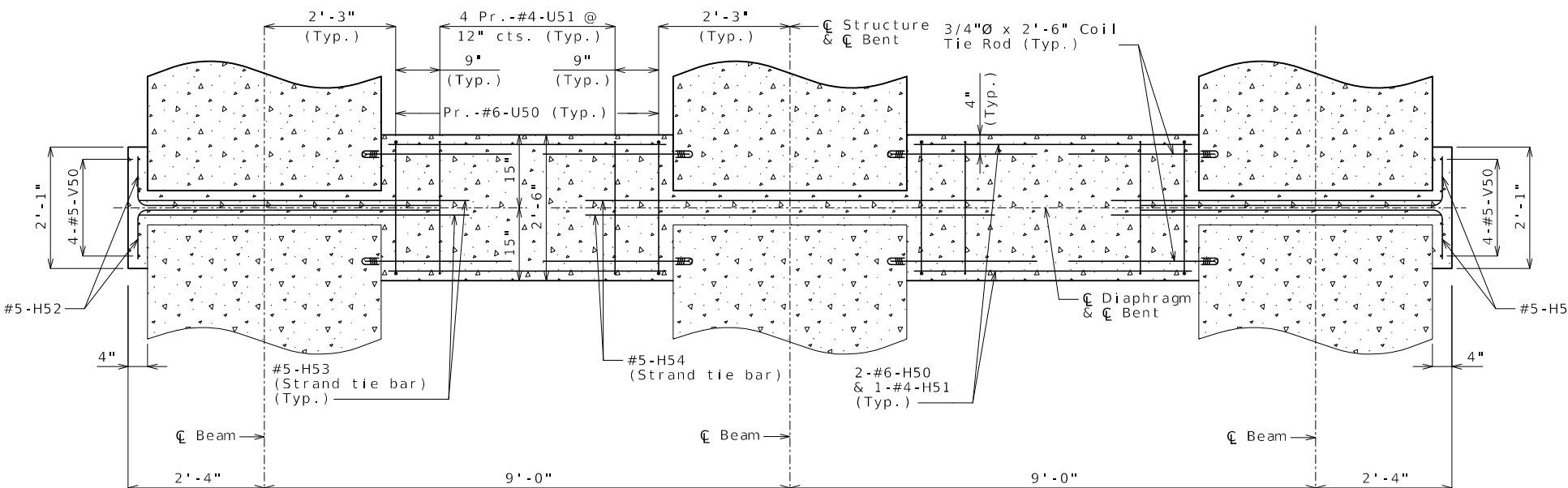
BMcD Project No. 171819

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

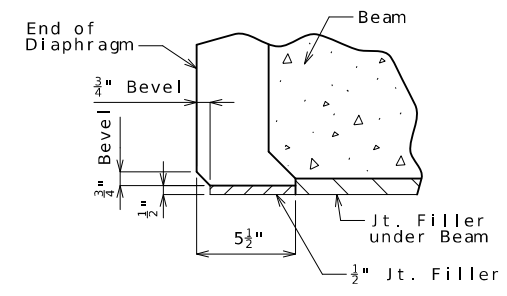
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



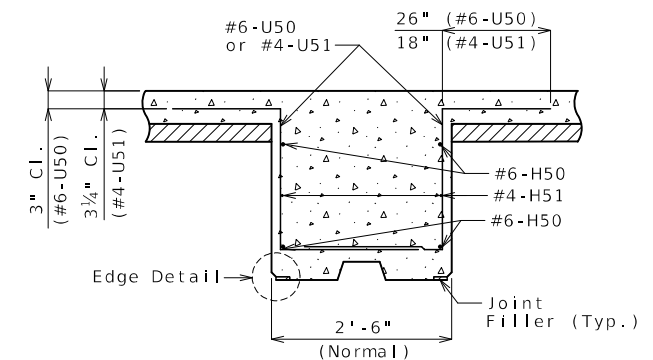
SECTION NEAR INTERMEDIATE BENT



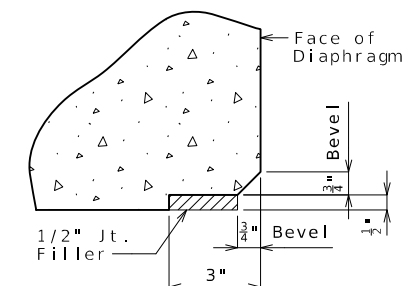
SECTION A-A



END DETAIL



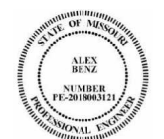
SECTION B-B



EDGE DETAIL

General Notes:
 For location of Strand Tie Bars, see Sheets No. 13 & 14.
 For location and details of Coil Tie Rods, see Sheets No. 13 & 14.
 Diaphragms at intermediate bents shall be built vertical.

CONCRETE DIAPHRAGMS
 AT INTERMEDIATE BENTS



Alex Benz
 11/05/2024 9:34:15 AM
 Alex Benz - Civil
 MO PE-2018003121

DATE PREPARED
 11/5/2024
 ROUTE I-70 STATE MO
 DISTRICT BR SHEET NO. 15
 COUNTY SALINE
 JOB NO. JST0016B
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO. A9613

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 MoDOT
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

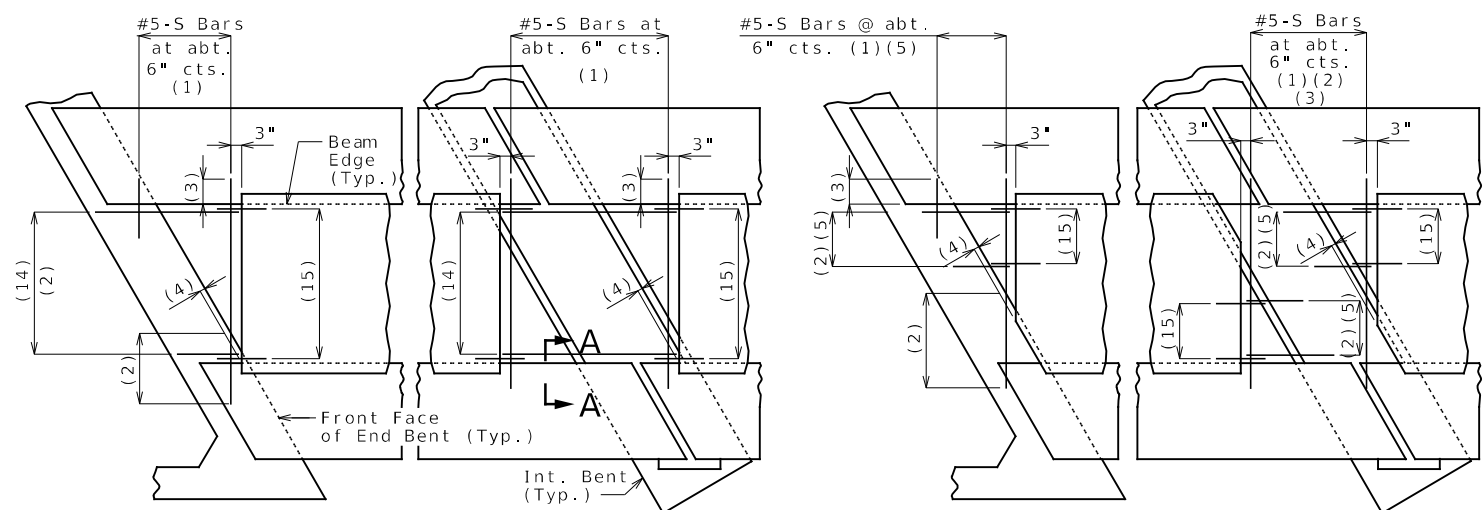
EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

Detailed: Sep. 2024
 Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

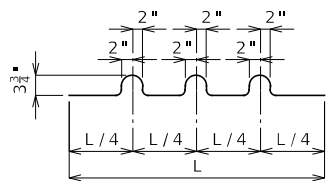
Sheet No. 15 of 32

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



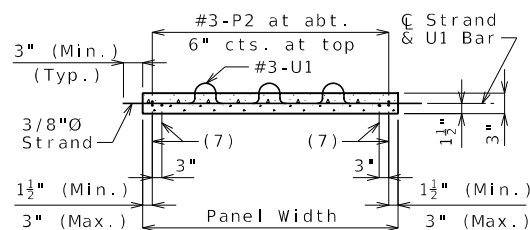
SQUARED END PANELS OR TRUNCATED END PANELS
PLAN SHOWING PANEL PLACEMENT

(14) #5-S Bars at abt. 9" cts. (1)
(15) #3-P1 at 12" cts. (End panels only)

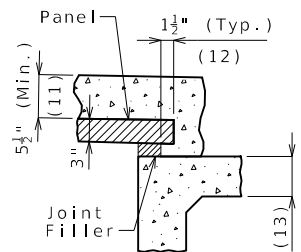


BENDING DIAGRAM FOR U1 BAR

U1 Bars may be oriented at right angles to location and spacing shown. U1 Bars shall be placed between P1 bars.



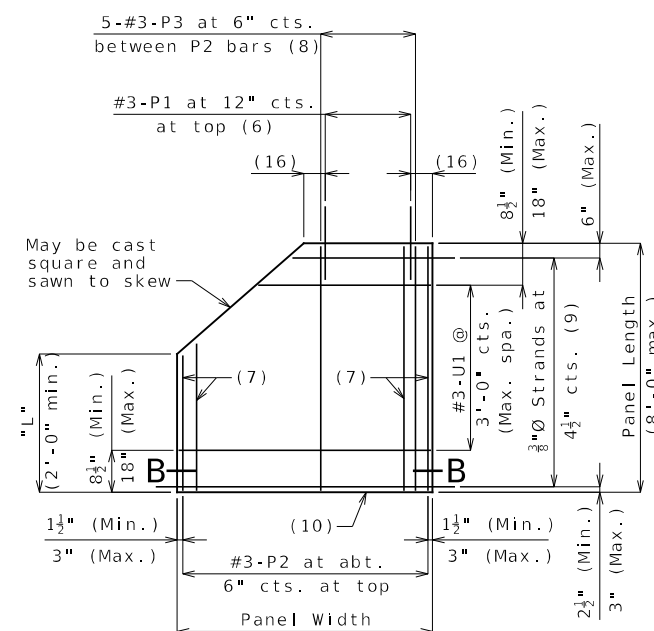
SECTION B-B



SECTION A-A

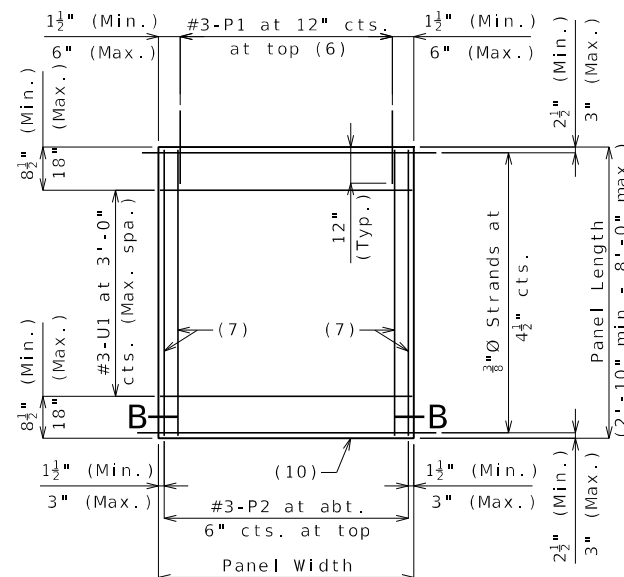
Joint Filler Dimensions

Width	Height	
	Min.	Max.
3"	1"	4"



PLAN OF OPTIONAL TRUNCATED END PANEL

(16) 3" (Min.), 6" (Max.)



PLAN OF SQUARED PANEL

Reference Notes:

Plan of Panel Placement:
(1) S-bars shown are bottom steel in slab between panels and used with squared and truncated end panels only.

(2) Extend S-bars 18 inches beyond the front face of end bents and int. bents for squared and truncated end panels only.

(3) Extend S-bars 9 inches beyond edge of beam (Typ.).

(4) End panels shall be dimensioned 1/2" min. to 1 1/2" max. from the inside face of diaphragm.

(5) For truncated end panels, use a min. of #5-S bars at 6" crossings in openings, or min. 4x4-W7xW7.

Plans of Panels:
(6) For end panels only, P1 bars shall be 2'-0" in length and embedded 12". P1 bars will not be required for panels at squared integral end bents.

(7) #3-P2 bars near edge of panel at bottom (under strands).

(8) Use #3-P3 bars if panel is skewed 45° or greater.

(9) Any strand 2'-0" or shorter shall have a #4 reinforcing bar on each side of it, centered between strands. Strands 2'-0" or shorter may then be debonded at the fabricator's option.

(10) Optional 1/2" x 45° Chamfer one or both sides at bottom.

Section A-A:

(11) Slab thickness over prestressed panels varies due to beam camber. In order to maintain minimum slab thickness, it may be necessary to raise the grade uniformly throughout the structure. No payment will be made for additional labor or materials required for necessary grade adjustment.

(12) Contractor shall ensure proper consolidation under and between panels.

(13) At the contractor's option, the variation in slab thickness over prestressed panels may be eliminated or reduced by increasing and varying the beam top flange thickness. Dimensions shall be shown on the shop drawings.

General Notes:

Prestressed Panels:
Concrete for prestressed panels shall be Class A-1 with $f'c = 6,000$ psi, $f'ci = 4,000$ psi.

The top surface of all panels shall receive a scored finish with a depth of scoring of 1/8" perpendicular to the prestressing strands in the panels.

Prestressing tendons shall be high-tensile strength, uncoated, seven-wire, low-relaxation strands for prestressed concrete in accordance with AASHTO M 203 Grade 270, with nominal diameter of strand = 3/8" and nominal area = 0.085 sq. in. and minimum ultimate strength = 22.95 kips (270 ksi). Larger strands may be used with the same spacing and initial tension.

Initial prestressing force = 17.2 kips/strand.

The method and sequence of releasing the strands shall be shown on the shop drawings.

Suitable anchorage devices for lifting panels may be cast in panels, provided the devices are shown on the shop drawings and approved by the engineer. Panel lengths shall be determined by the contractor and shown on the shop drawings.

When squared end panels are used at skewed bents, the skewed portion shall be cast full depth. No separate payment will be made for additional concrete and reinforcing required.

Support from diaphragm forms is required under the optional skewed end until cast-in-place concrete has reached 3,000 psi compressive strength.

Prestressed panels shall be brought to saturated surface-dry (SSD) condition just prior to the deck pour. There shall be no free standing water on the panels or in the area to be cast.

The prestressed panel quantities are not included in the table of estimated quantities for the slab.

Reinforcing Steel:
All dimensions are out to out.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

If U1 bars interfere with placement of slab steel, U1 loops may be bent over, as necessary, to clear slab steel.

Deformed welded wire reinforcement (WWR) providing a minimum area of reinforcing perpendicular to strands of 0.22 sq in./ft, with spacing parallel to strands sufficient to ensure proper handling, may be used in lieu of the #3-P2 bars shown. Wire diameter shall not be larger than 0.375 inch. The above alternative reinforcement criteria may be used in lieu of the #3-P3 bars, when required, and placed over a width not less than 2 feet.

The following reinforcing steel shall be tied securely to the strands with the following maximum spacing in each direction:
#3-P2 bars at 16 inches.
WWR at 24 inches.

The #3-U1 bars shall be tied securely to #3-P2 bars, to WWR or to strands (when placed between P1 bars) at about 3-foot centers.

Minimum reinforcement steel length shall be 2'-0".

All reinforcement other than prestressing strands shall be epoxy coated.

Precast panels may be in contact with stirrup reinforcing in diaphragms.

S-bars are not listed in the bill of reinforcing.

Cost of S-bars will be considered completely covered by the contract unit price for the slab.

Joint Filler:

Joint filler shall be preformed fiber expansion joint material in accordance with Sec 1057 or expanded or extruded polystyrene bedding material in accordance with Sec 1073.

Use Slab Haunching Diagram on Sheet No. 17 for determining thickness of joint filler within the limits noted in the table of Joint Filler Dimensions.

Thicker material may be used on one or both sides of the beam to reduce cast-in-place concrete thickness to within tolerances.

The same thickness of preformed fiber expansion joint material shall be used under any one edge of any panel except at locations where top flange thickness may be stepped. The maximum change in thickness between adjacent panels shall be 1/2 inch. The polystyrene bedding material may be cut with a transition to match haunch height above top of flange.

Joint filler shall be glued to the beam. When thickness exceeds 1 1/2 inches, the joint filler shall be glued top and bottom. The glue used shall be the type recommended by the joint filler manufacturer.

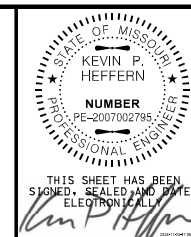
Edges of panels shall be uniformly seated on the joint filler before slab reinforcement is placed.

DETAILS OF PRESTRESSED PANELS

Detailed: Sep. 2024
Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 16 of 32



DATE PREPARED
11/5/2024

ROUTE
I-70

STATE
MO

DISTRICT
BR

SHEET NO.
16

COUNTY
SALINE

JOB NO.
JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9613

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

BURNS & McDONNELL Engineering Co., Inc.

9400 Ward Parkway Kansas City, Missouri 64114

816-333-9400

Certificate of Authority No. : 000165

BMcD Project No. 171819

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THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

PROFESSIONAL ENGINEER

NUMBER

KEVIN P. HEFFERN

STATE OF MISSOURI

Professional Engineer

PE-2007002795

Professional Engineer

Professional Engineer

Professional Engineer

Professional Engineer

Professional Engineer

Professional Engineer

Professional Engineer

Professional Engineer

Professional Engineer

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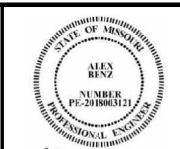
Professional Engineer

Professional Engineer

Professional Engineer

Professional Engineer

Professional Engineer



Alex C. Benz
11/05/2024 9:34:44 AM
Alex Benz - Civil
MO PE-2018003121

DATE PREPARED
11/5/2024
ROUTE STATE
I - 70 MO
DISTRICT SHEET NO.
BR 19

COUNTY
SALINE
JOB NO.
JST0016B
CONTRACT ID.

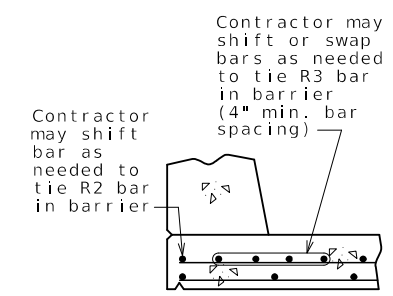
PROJECT NO.

BRIDGE NO.
A9613

DATE	DESCRIPTION

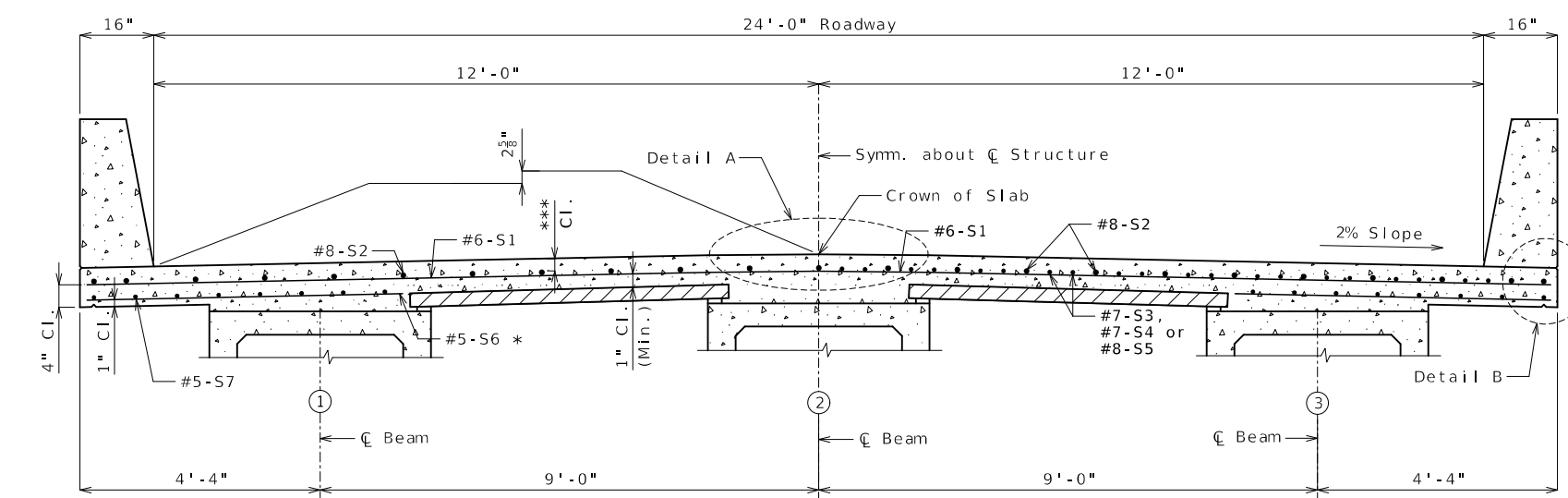
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



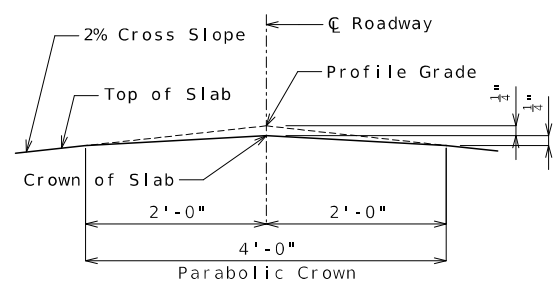
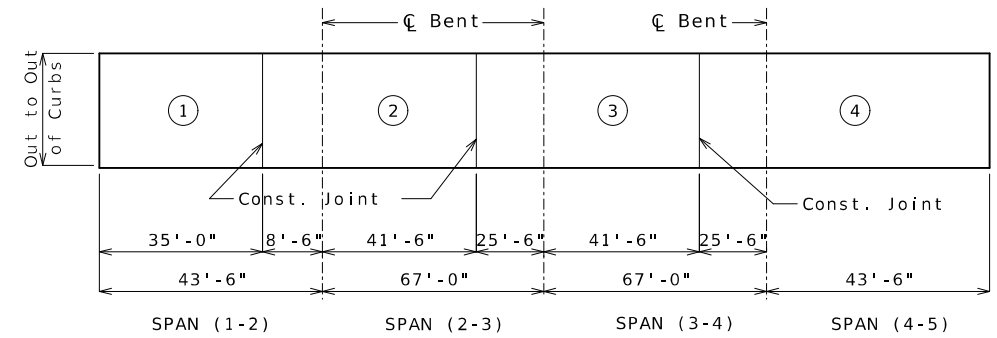
OPTIONAL SHIFTING TOP BARS AT BARRIER

*** 2 7/8" (#7)
2 3/4" (#8)

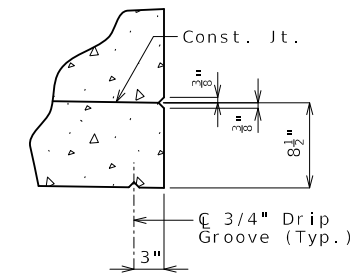


HALF SECTION NEAR MIDSPAN SECTION THRU SLAB HALF SECTION NEAR INTERMEDIATE BENT

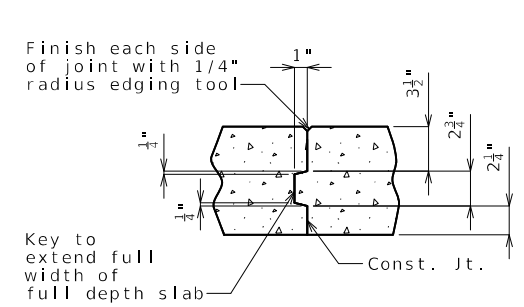
* Alternate bar shape available, see barrier sheet.



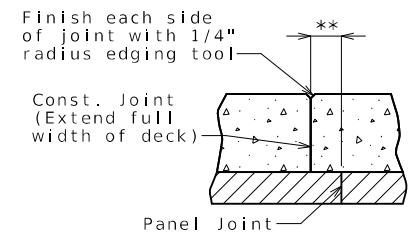
DETAIL A



DETAIL B



FULL DEPTH SLAB



** Adjust the construction joint to a clearance of 6 inches minimum from the panel joint.

SLAB ON PANELS

SLAB CONSTRUCTION JOINT

Notes:

For details of precast prestressed panels, see Sheet No. 16.

For reinforcement of barrier not shown, see Sheet No. 20.

For Theoretical Bottom of Slab Elevations, Girder Camber Diagram and Theoretical Slab Haunching Diagram, see Sheet No. 17.

For Plan of Slab Showing Reinforcement, see Sheet No. 18.

Sequence of Pours	Direction				Min. Rate of Pour Cu. Yds./Hr.
	1	2	3	4	
Basic Sequence	End to 2	1 to 3	2 to 4	3 to End	25
Alternate pours to the basic sequence are subject to the approval of the engineer in accordance with Sec 703.					
Alternate A Pours	1 + 2	3	4		25
Alternate B Pours	1 + 2	3 + 4			25
Alternate C Pours	1 + 2 + 3 + 4				25

The contractor shall furnish an approved retarder to retard the set of the concrete to 2.5 hours, and shall pour and satisfactorily finish the slab pours at the rate given.

The concrete diaphragm at the intermediate bents and integral end bents shall be poured a minimum of 30 minutes and a maximum of 2 hours before the slab is poured.

SLAB POURING SEQUENCE

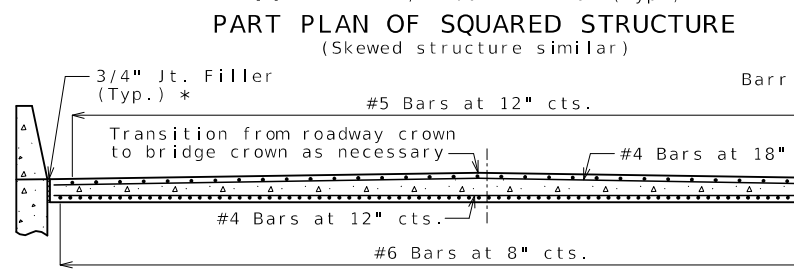
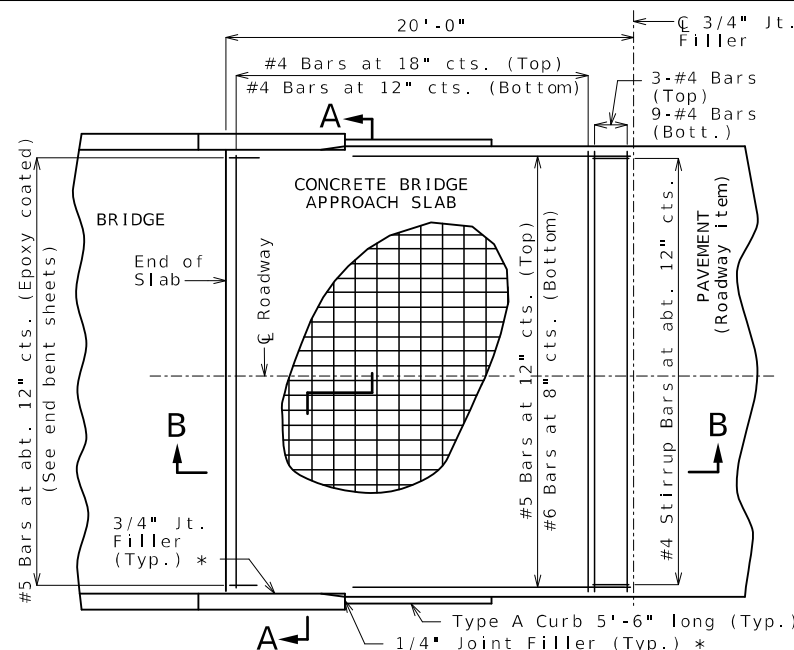
Detailed: Sep. 2024
Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

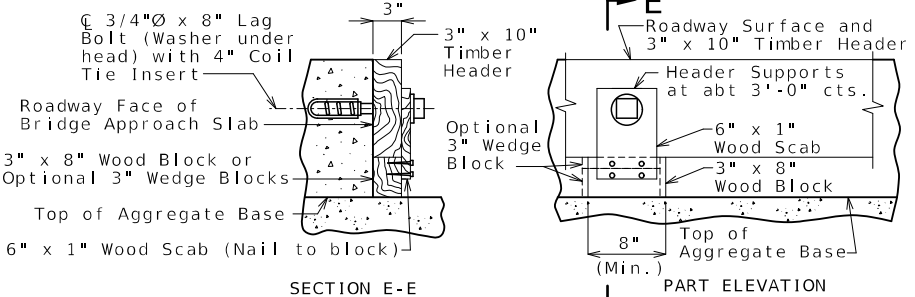
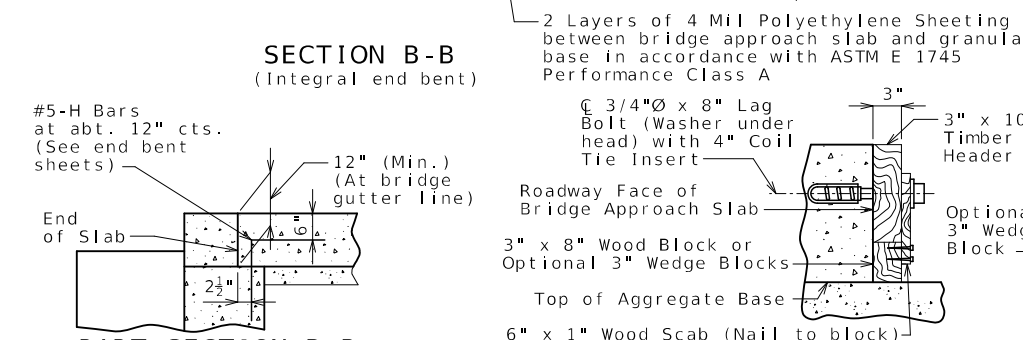
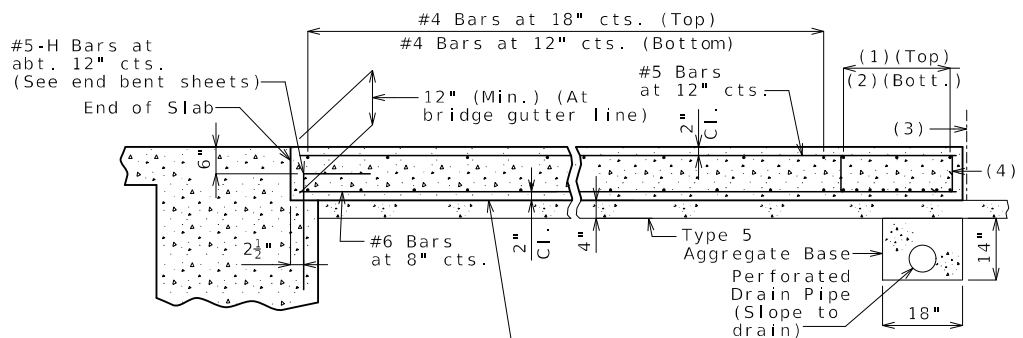
Sheet No. 19 of 32

SLAB SECTION & DETAILS

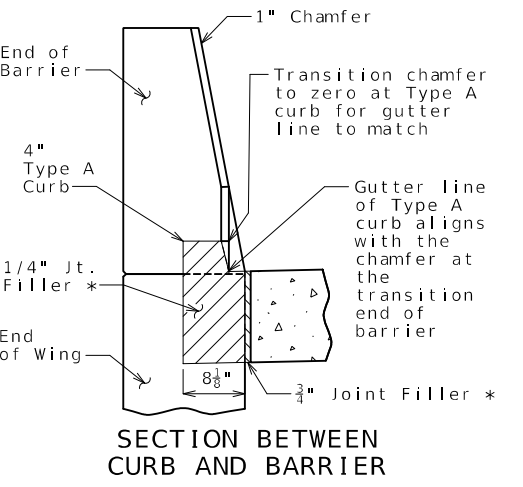
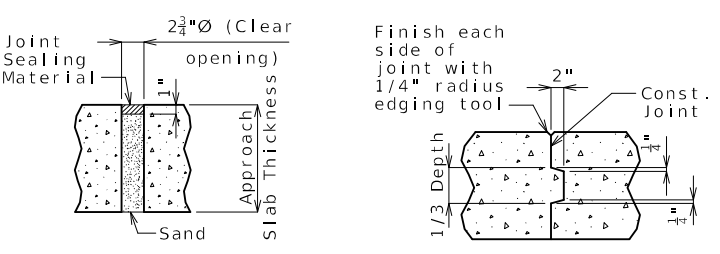
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.



DETAILS OF TIMBER HEADER
Remove timber header when concrete pavement is placed.
OPTIONAL CONCRETE SLAB



Notes For Concrete Slab Only:
All concrete for the bridge approach slab shall be in accordance with Sec 503 (f'c = 4,000 psi).
The reinforcing steel in the bridge approach slab shall be epoxy coated Grade 60 with fy = 60,000 psi.
Longitudinal construction joints in bridge approach slab shall be aligned with longitudinal construction joints in bridge slab.
Minimum clearance to reinforcing steel shall be 1 1/2\", unless otherwise shown.
The reinforcing steel in the bridge approach slab shall be continuous. The transverse reinforcing steel may be made continuous by providing a minimum lap splice of 23 inches for #4 bars, or by mechanical bar splice.
Mechanical bar splices shall be in accordance with Sec 710.
All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.
Payment for furnishing all materials, labor and excavation necessary to construct the concrete bridge approach slab, including the timber header, underdrain, Type 5 aggregate base, joint filler, and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Minor) per square yard.
Drain pipe may be either 6\"/>

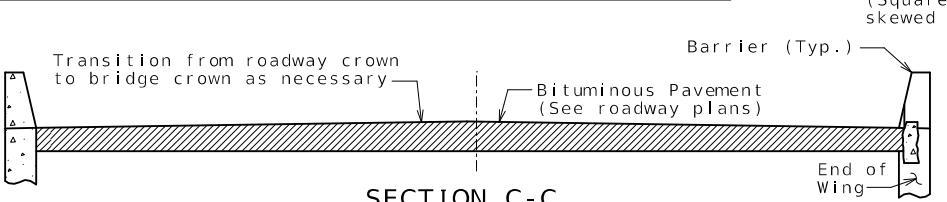
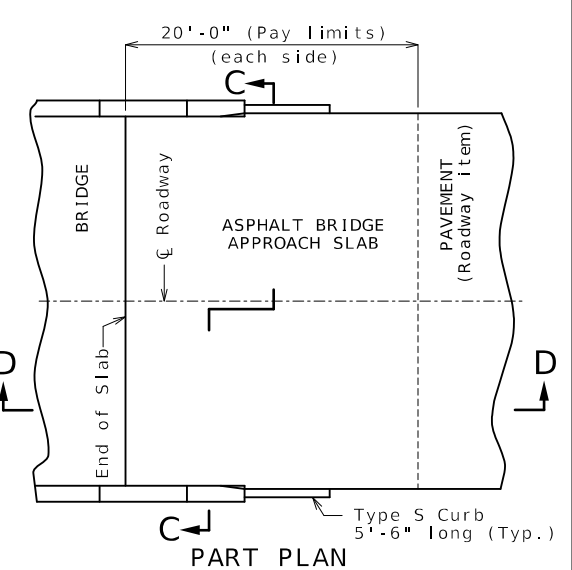
General Notes:
Contractor shall have the option to construct either slab except as noted.
The contractor shall pour and satisfactorily finish the bridge slab before placing the bridge approach slab.
MoDOT Construction personnel will indicate the bridge approach slab used for this structure:
 Concrete Bridge Approach Slab
 Asphalt Bridge Approach Slab

Notes For Asphalt Slab Only:
Payment for furnishing all materials, labor and excavation necessary to construct the asphalt bridge approach slab, including tack, curb, and Type 5 aggregate base within the pay limits shown, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Minor) per square yard.
Application of tack is required between lifts per Sec 403.

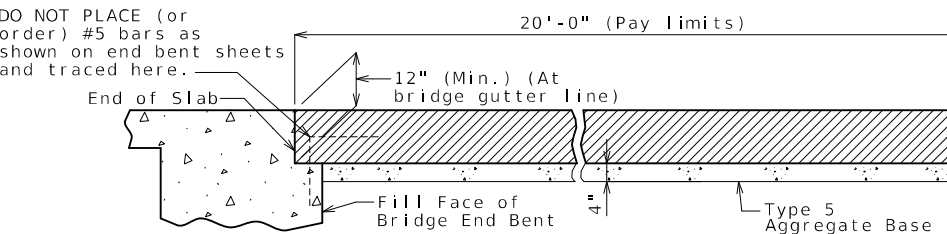
See Missouri Standard Plan 609.00 for details of Type A curb.
* Seal joint between vertical face of approach slab and wing with sealant in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

Notes For Asphalt Slab Only:
Payment for furnishing all materials, labor and excavation necessary to construct the asphalt bridge approach slab, including tack, curb, and Type 5 aggregate base within the pay limits shown, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Minor) per square yard.
Application of tack is required between lifts per Sec 403.

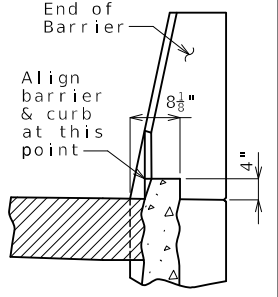
Application of tack is required between lifts per Sec 403.



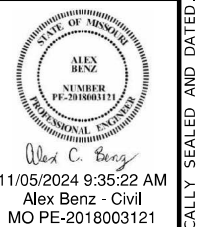
With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.



OPTIONAL ASPHALT SLAB (NOT ALLOWED WITH CONCRETE PAVEMENT)



4\"/>



DATE PREPARED: 11/5/2024
ROUTE: I-70 STATE: MO
DISTRICT: BR SHEET NO.: 22

COUNTY: SALINE
JOB NO.: JST0016B
CONTRACT ID.

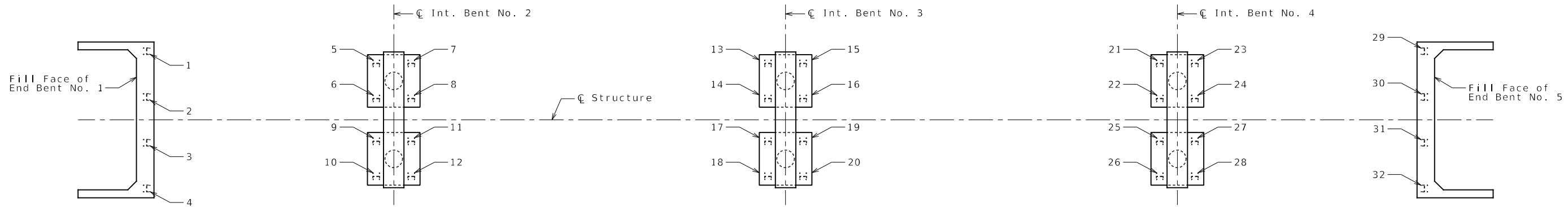
PROJECT NO.
BRIDGE NO.: A9613

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



PART PLAN SHOWING PILE NUMBERING FOR RECORDING AS-BUILT PILE DATA

As-Built Pile Data			
Pile No.	Length in Place (ft)	Computed Nominal Axial Compressive Resistance (kips)	Remarks
End Bent No. 1			
1			
2			
3			
4			
Int. Bent No. 2			
5			
6			
7			
8			
9			
10			
11			
12			
Int. Bent No. 3			
13			
14			
15			
16			
17			
18			
19			
20			

As-Built Pile Data			
Pile No.	Length in Place (ft)	Computed Nominal Axial Compressive Resistance (kips)	Remarks
Int. Bent No. 4			
21			
22			
23			
24			
25			
26			
27			
28			
End Bent No. 5			
29			
30			
31			
32			

Notes:
 Indicate in remarks column:
 A. Pile type and grade
 B. Batter
 C. Driven to practical refusal

This sheet to be completed by MoDOT construction personnel.

AS-BUILT PILE DATA

Detailed: Sep. 2024
 Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 26 of 32

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 11/5/2024

ROUTE: I-70 STATE: MO

DISTRICT: BR SHEET NO.: 26

COUNTY: SALINE

JOB NO.: JST0016B

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.: A9613

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 MoDOT Project No. 171819

Missouri Department of Transportation
Construction and Materials

BORING NO. A0130-5
Page 1 of 1

Job No.: ST0016B County: Saline Route: County Road 211
 Design: _____ Skew: _____ Location: Over Interstate 70
 Bent: 2 Logged By: RAW Operator: DJT
 Station: _____ Northing: _____ Date of Work: 08/28/24-08/28/24
 Offset: _____ Easting: _____ Depth to Water: _____
 Elevation: 789.9 Requested Northing: _____ Depth Hole Open: _____
 Requested Station: _____ Requested Easting: _____ Time Change: _____
 Requested Offset: _____ Equipment: CME 55LC Split-Spoon Sampler, Split-Spoon
 Requested Elevation: _____ Location Note: Bridge A9613
 Drill No.: S/N 424035 Hammer Efficiency: 75% Drilling Method: Flight Auger

Missouri Department of Transportation
Construction and Materials

BORING NO. A0130-6
Page 1 of 1

Job No.: ST0016B County: Saline Route: County Road 211
 Design: _____ Skew: _____ Location: Over Interstate 70
 Bent: 2 Logged By: RAW Operator: DJT
 Station: _____ Northing: _____ Date of Work: 08/30/24-08/30/24
 Offset: _____ Easting: _____ Depth to Water: _____
 Elevation: 791.8 Requested Northing: _____ Depth Hole Open: _____
 Requested Station: _____ Requested Easting: _____ Time Change: _____
 Requested Offset: _____ Equipment: CME 55LC Split-Spoon Sampler
 Requested Elevation: _____ Location Note: Bridge A9613
 Drill No.: S/N 424035 Hammer Efficiency: 75% Drilling Method: Flight Auger

LETTER BOREHOLE - MODOT_20151118.GDT - 10/25/24 09:31 - K:\PROJECTS\J045\J045955.01-MODOT SALINE COUNTY BRIDGE REPLACEMENTS\MODOT FORMAT.GINT\J045955.01-MODOT SALINE COUNTY - COUNTY ROAD 211.GPJ

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (ROD %)	Blow Counts (N ₆₀)	Shear Data	Field Tests	Index Tests
0		0.0-1.5' FILL - dark brown fat clay							MC = 14.7%
		1.5-3.0' CLAY and ROCK FRAGMENTS			89	4-6-11 (21)			
5		3.0-13.0' Weathered SANDSTONE, CHERT and CLAY 4.2' sampler refusal	785		100	35-50/0.2'			LL = 48 PL = 20 MC = 14.2%
		6.4' sampler refusal			100	50/0.4'			MC = 17.1%
10			780		83	40-27-20 (59)			
					100	15-39-36 (94)			MC = 9.5%
15		13.0-15.0' CLAY - tan and yellow, very stiff, fat, some limestone gravel - CH	775		56	7-10-10 (25)			MC = 16.8%
Bottom of borehole at 15.0 feet.									

N₆₀ = (Em/60)N_m N_{60c} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; N_m - Observed N-value; (1) = Assumed, (2) = Actual

Coordinate System: _____ Coordinate Zone: _____ Coordinate Proj. Factor: _____

Coordinate Datum: NAVD88 Coordinate Units: U.S. Survey Feet

* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.

LETTER BOREHOLE - MODOT_20151118.GDT - 10/25/24 09:31 - K:\PROJECTS\J045\J045955.01-MODOT SALINE COUNTY BRIDGE REPLACEMENTS\MODOT FORMAT.GINT\J045955.01-MODOT SALINE COUNTY - COUNTY ROAD 211.GPJ

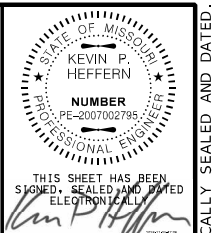
Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (ROD %)	Blow Counts (N ₆₀)	Shear Data	Field Tests	Index Tests
0		0.0-3.0' FILL - brown and gray fat clay	790		39	17-44-31 (94)			MC = 23.2%
5		3.0-5.5' CLAY - brown and gray, stiff, lean, some rock fragments - (CL)			56	6-4-7 (14)			LL = 48 PL = 20 MC = 14.2%
		5.5-13.0' BOULDERS, COBBLES AND CLAY	785		72	4-10-12 (28)			MC = 17.1%
10					100	21-16-26 (53)			
			780		100	5-5-10 (19)		PP = 2.75 tsf	MC = 51.5%
15		13.0-15.0' CLAY - black and tan, stiff, fat, some rock fragments - CH			67	7-5-6 (14)			MC = 41.1%
Bottom of borehole at 15.0 feet.									

N₆₀ = (Em/60)N_m N_{60c} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; N_m - Observed N-value; (1) = Assumed, (2) = Actual

Coordinate System: _____ Coordinate Zone: _____ Coordinate Proj. Factor: _____

Coordinate Datum: NAVD88 Coordinate Units: U.S. Survey Feet

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DATE PREPARED: 11/5/2024
 ROUTE: I-70 STATE: MO
 DISTRICT: BR SHEET NO.: 31

COUNTY: SALINE
 JOB NO.: JST0016B
 CONTRACT ID.: _____
 PROJECT NO.: _____
 BRIDGE NO.: A9613

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority No.: 000165
 BICD Project No.: 171819

Detailed: Sep. 2024
 Checked: Oct. 2024

Note: For locations of borings, see Sheet No. 1.
 Note: This drawing is not to scale. Follow dimensions.
 Sheet No. 31 of 32

BORING DATA

Missouri Department of Transportation
Construction and Materials

BORING NO. A0130-7
Page 1 of 1

Job No.: ST0016B County: Saline Route: County Road 211
 Design: Skew: Location: Over Interstate 70
 Bent: 4 Logged By: EER Operator: DJT
 Station: Northing: Date of Work: 07/29/24-07/29/24
 Offset: Easting: Depth to Water:
 Elevation: 789.5 Requested Northing: Depth Hole Open:
 Requested Station: Requested Easting: Time Change:
 Requested Offset: Equipment: CME 55LC, Shelby Tube, Split-Spoon Sampler
 Requested Elevation: Location Note: Bridge A9613
 Drill No.: S/N 424035 Hammer Efficiency: 75% Drilling Method: Flight Auger

Missouri Department of Transportation
Construction and Materials

BORING NO. A0130-8
Page 1 of 1

Job No.: ST0016B County: Saline Route: County Road 211
 Design: Skew: Location: Over Interstate 70
 Bent: 4 Logged By: EER Operator: DJT
 Station: Northing: Date of Work: 07/30/24-07/30/24
 Offset: Easting: Depth to Water:
 Elevation: 791.8 Requested Northing: Depth Hole Open:
 Requested Station: Requested Easting: Time Change:
 Requested Offset: Equipment: CME 55LC, Shelby Tube, Split-Spoon Sampler
 Requested Elevation: Location Note: Bridge A9613
 Drill No.: S/N 424035 Hammer Efficiency: 75% Drilling Method: Flight Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (ROD %)	Blow Counts (N ₆₀)	Shear Data	Field Tests	Index Tests
0		0.0-3.0' FILL - brown sandy clay, gravel			33	2-3-3 (8)			MC = 14.8%
5		3.0-14.4' BOULDERS, COBBLES AND CLAY 3.8' sampler refusal	785		100				
		6.3' sampler refusal			100	50/0.3'			
10			780		78	11-48-31 (99)			
					91	21-50/0.4'			
		Bottom of borehole at 14.4 feet.							

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (ROD %)	Blow Counts (N ₆₀)	Shear Data	Field Tests	Index Tests
0		0.0-2.0' CLAY - brown, stiff, fat - (CH)	790		100				LL = 73 PL = 22
5		2.0' sampler refusal 2.0-5.5' COBBLES AND CLAY			44	4-12-12 (30)			MC = 22.0%
		5.5-10.5' CLAY - brown and tan, medium stiff to soft, fat, some rock fragments - CH	785		100	5-4-4 (10)			MC = 25.6%
10		10.5-14.3' BOULDERS, COBBLES AND CLAY	780		78	5-2-2 (5)			MC = 38.7%
					78	9-28-50 (98)			
					60	5-50/0.3'			
		Bottom of borehole at 14.3 feet.							

N₆₀ = (Em/60)N_m N_{60c} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; N_m - Observed N-value; (1) = Assumed, (2) = Actual

Coordinate System: Coordinate Zone: Coordinate Proj. Factor:
 Coordinate Datum: NAVD88 Coordinate Units: U.S. Survey Feet

* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.

N₆₀ = (Em/60)N_m N_{60c} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; N_m - Observed N-value; (1) = Assumed, (2) = Actual

Coordinate System: Coordinate Zone: Coordinate Proj. Factor:
 Coordinate Datum: NAVD88 Coordinate Units: U.S. Survey Feet

* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED: 11/5/2024
 ROUTE: I-70 STATE: MO
 DISTRICT: BR SHEET NO.: 32

COUNTY: SALINE
 JOB NO.: JST0016B
 CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.: A9613

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority No.: 000165
 BlcD Project No.: 171819

Detailed: Sep. 2024
 Checked: Oct. 2024

Note: For locations of borings, see Sheet No. 1.
 Note: This drawing is not to scale. Follow dimensions.
 Sheet No. 32 of 32

BORING DATA

(42.3' - 67' - 67' - 42.3') PRESTRESSED CONCRETE SPREAD BOX BEAM SPANS

SEC/SUR 11 TWP 48N RGE 20W



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
11/5/2024
ROUTE STATE
I-70 MO
DISTRICT SHEET NO.
BR 1

COUNTY
SALINE
JOB NO.
JST0016B
CONTRACT ID.

PROJECT NO.
BRIDGE NO.
A9614

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 171819

NOTICE AND DISCLAIMER REGARDING BORING LOG DATA:

The locations of all subsurface borings for this structure are shown on the plan sheets for this structure. The boring data for all locations indicated, as well as any other boring logs or other factual records of subsurface data and investigations performed by the department for the design of the project, are shown on Sheets No. 27 thru 32 and may be included in the Electronic Bridge Deliverables. They will also be available from the Project Contact upon written request. No greater significance or weight should be given to the boring data depicted on the plan sheets than is given to the subsurface data available from the district or elsewhere.

The Commission does not represent or warrant that any such boring data accurately depicts the conditions to be encountered in constructing this project. A contractor assumes all risks it may encounter in basing its bid prices, time or schedule of performance on the boring data depicted here or those available from the district, or on any other documentation not expressly warranted, which the contractor may obtain from the Commission.

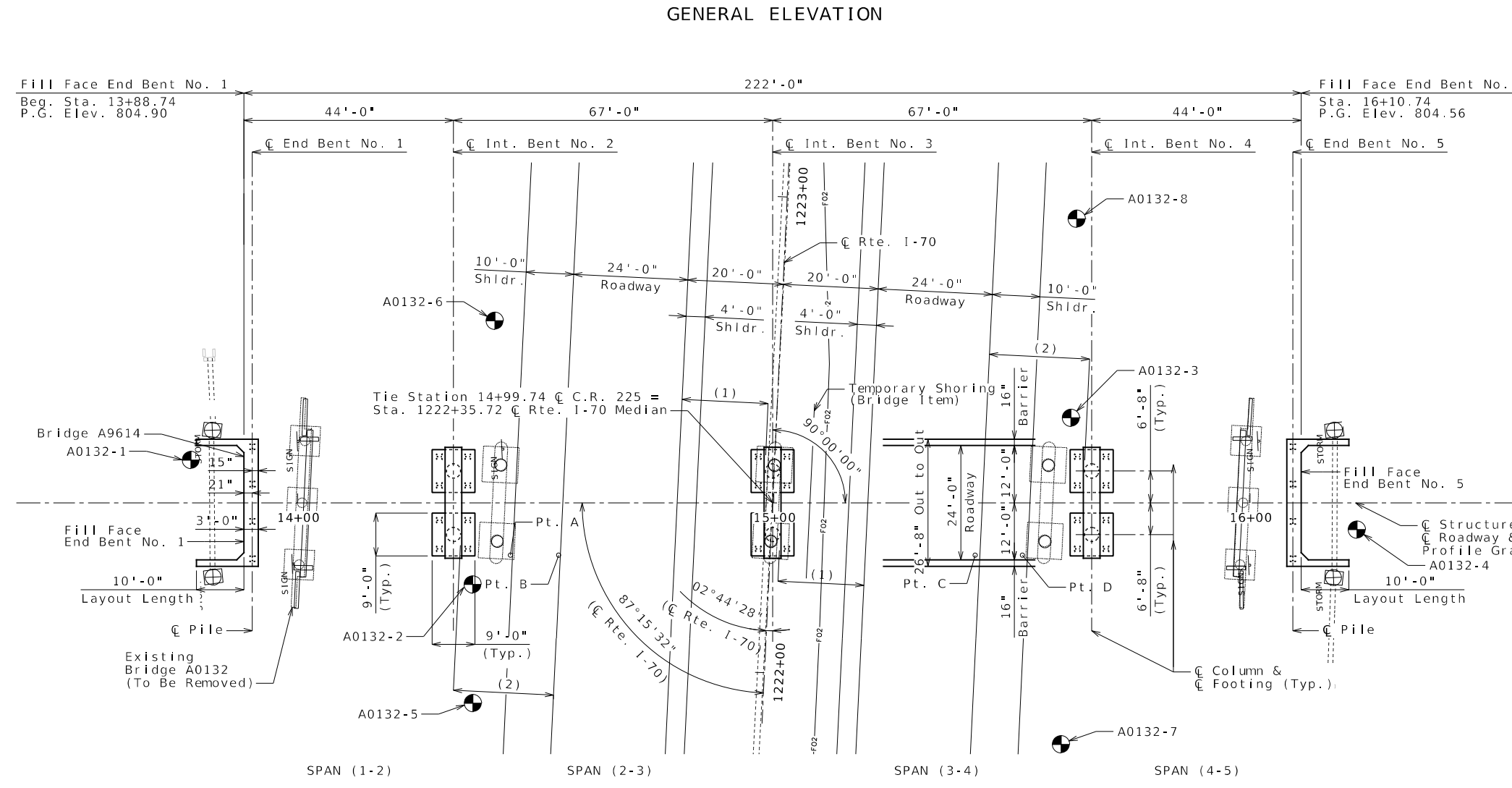
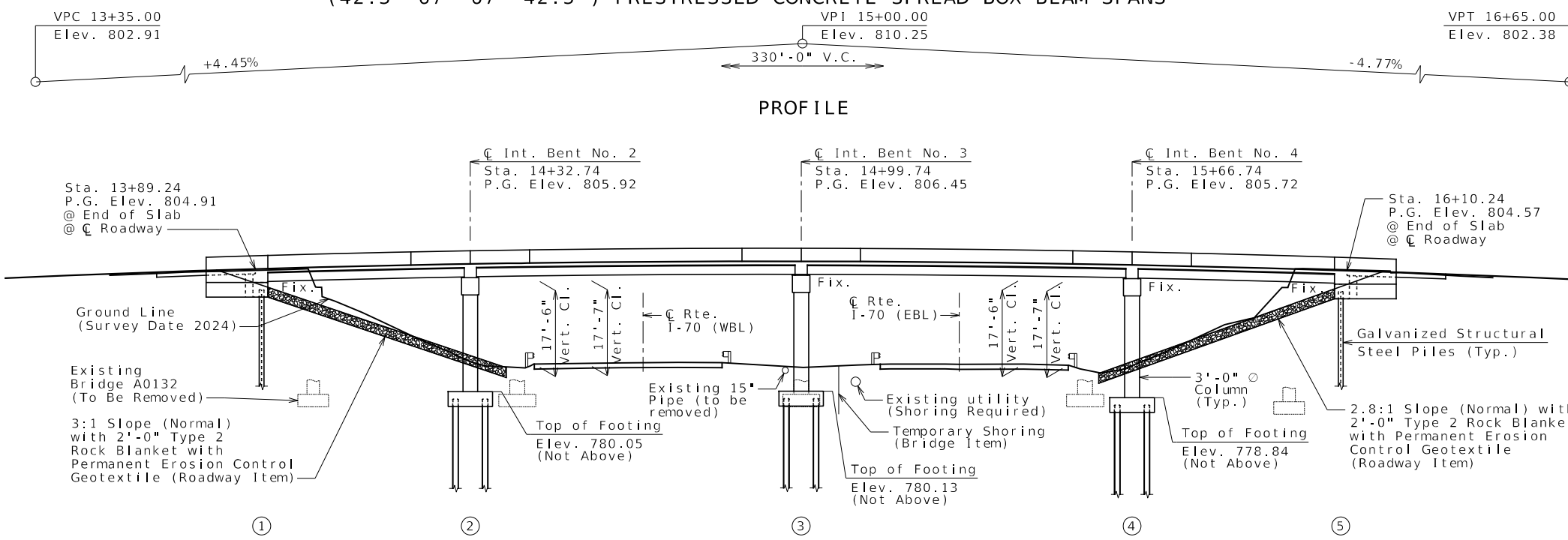
Notes:
All bents are parallel.
All longitudinal dimensions shown are horizontal.
Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.
Roadway fill shall be completed to the final roadway section and up to the elevation of the bottom of the concrete beam within the limits of the structure and not for less than 25 feet in back of the fill face of the end bents before any piles are driven for any bents falling within the embankment section.

Existing roadway fill under the ends of the bridge shall be removed as shown. Removal of existing roadway fill will be considered completely covered by the contract unit price for roadway excavation.

Point	Station	Offset	Vertical Clearance
A	1445.15	11.0 Rt.	17'-6" to inside EOS
B	1455.15	11.0 Rt.	17'-7" to inside EOP
C	1543.25	11.0 Rt.	17'-6" to inside EOP
D	1553.30	11.0 Rt.	17'-7" to inside EOS

Station and offset in reference to C.R. 225.
Notes:
● Indicates location of proposed borings.
(1) 18'-1" Horizontal Clearance
(2) 21'-0" Horizontal Clearance

CP #109:
1/2" Iron Pipe West of County Road 225 and North of I-70
Elev. 804.980
N = 1677848.713
E = 537195.305



BRIDGE: COUNTY ROAD 225 OVER ROUTE I-70
ROUTE I-70 FROM ROUTE 65 TO COOPER COUNTY LINE
ABOUT 1.1 MILES EAST OF ROUTE J
TIE STATION 1222+35.72

Detailed: Sep. 2024
Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 1 of 32

Estimated Quantities				
Item		Substr.	Superstr.	Total
Class 1 Excavation	cu. yard	335		335
Temporary Shoring	lump sum			1
Removal of Bridges (A0132)	lump sum			1
Bridge Approach Slab (Minor)	sq. yard		109	109
Galvanized Structural Steel Piles (12 in.)	linear foot	1,292		1,292
Pre-Bore for Piling	linear foot	1,236		1,236
Point Pile Reinforcement	each	32		32
Class B Concrete (Substructure)	cu. yard	24.6		24.6
Class B-1 Concrete (Substructure)	cu. yard	117.6		117.6
Type H Barrier	linear foot		484	484
Slab on Concrete Beam	sq. yard		655	655
21 in., Prestressed Concrete Spread Box Beam	linear foot		654	654
Reinforcing Steel (Epoxy Coated)	pound	21,040		21,040
Vertical Drain at End Bents	each	2		2
Laminated Neoprene Bearing Pad	each		12	12
Laminated Neoprene Bearing Pad (Tapered)	each		12	12

All concrete above the construction joint in the end bents is included in the Estimated Quantities for Slab on Concrete Beam.

All reinforcement in the end bents is included in the Estimated Quantities for Slab on Concrete Beam.

All reinforcement in the intermediate bent concrete diaphragms except reinforcement embedded in the beam cap is included in the Estimated Quantities for Slab on Concrete Beam.

All concrete above the intermediate beam cap is included in the Estimated Quantities for Slab on Concrete Beam.

Estimated Quantities for Slab on Concrete Beam		
Item		Total
Class B-2 Concrete	cu. yard	153
Reinforcing Steel (Epoxy Coated)	pound	53,170

The table of Estimated Quantities for Slab on Concrete Beam represents the quantities used by the State in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard longitudinally from end of slab to end of slab and transversely from out to out of bridge slab (or with the horizontal dimensions as shown on the plan of slab). Payment for prestressed panels, conventional forms, all concrete and epoxy coated reinforcing steel will be considered completely covered by the contract unit price for the slab. Variations may be encountered in the estimated quantities but the variations cannot be used for an adjustment in the contract unit price.

Method of forming the slab shall be as shown on the plans and in accordance with Sec 703. All hardware for forming the slab to be left in place as a permanent part of the structure shall be coated in accordance with ASTM A123 or ASTM B633 with a thickness class SC 4 and a finish type I, II or III.

Class B-2 Concrete quantity is based on minimum top flange thickness and minimum joint material thickness.

The prestressed panel quantities are not included in the table of Estimated Quantities for Slab on Concrete Beam.

GENERAL NOTES:

DESIGN SPECIFICATIONS:
2020 AASHTO LRFD Bridge Design Specifications (9th Ed.)
Seismic Design Category = A

DESIGN LOADING:
Vehicular = HL-93 (95% per LRFD C3.6.1.1.2, ADTT = 22)
Future Wearing Surface = 35 lb/sf
Earth = 120 lb/cf
Equivalent Fluid Pressure = 45 lb/cf (Min.)
Superstructure: Simply-Supported, Non-composite for dead load.
Continuous Composite for live load.

DESIGN UNIT STRESSES:
Class B Concrete (Substructure, End Bents) f'c = 3,000 psi
Class B-1 Concrete (Substructure Intermediate Bents & Barrier) f'c = 4,000 psi
Class B-2 Concrete (Superstructure, except Prestressed Beams & Barrier) f'c = 4,000 psi
Reinforcing Steel (ASTM A615 Grade 60) fy = 60,000 psi
Structural Steel HP Pile (ASTM A709 Grade 50) fy = 50,000 psi

For precast prestressed panel stresses, see Sheet No. 16.
For prestressed box beam stresses, see Sheets No. 13 thru 14.

NEOPRENE PADS:
Neoprene bearing pads shall be 60 durometer and shall be in accordance with Sec 716.

JOINT FILLER:
All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

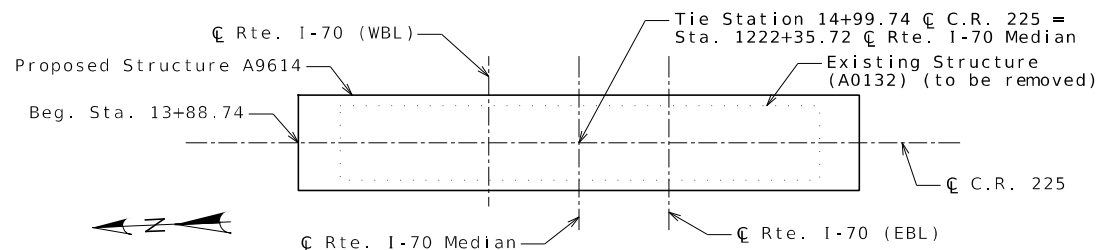
REINFORCING STEEL:
Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

TRAFFIC HANDLING:
Vertical clearance for Route I-70 traffic during construction shall be 15'-6" minimum over a 24'-0" wide horizontal opening of the roadway in each direction.

Structure to be closed during construction. Traffic to be maintained on other routes during construction. See roadway plans for traffic control.

MISCELLANEOUS:
MoDOT Construction personnel will indicate the type of joint filler option used under the precast panels for this structure:

- Constant Joint Filler
- Variable Joint Filler



LOCATION SKETCH

Foundation Data						
Type	Design Data	Bent Number				
		1	2	3	4	5
Load Bearing Pile	Pile Type and Size	HP 12x53	HP 12x53	HP 12x53	HP 12x53	HP 12x53
	Number	4	8	8	8	4
	Approximate Length Per Each	41	48	48	23	44
	Point Pile Reinforcement	All	All	All	All	All
	Min. Galvanized Penetration (Elev.)	Full Length	Full Length	Full Length	Full Length	Full Length
	Pile Driving Verification Method	Hard Rock*	Hard Rock*	Hard Rock*	Hard Rock*	Hard Rock*

*Prebore for piles at Bents No. 1, 2, 3, 4 and 5 to elevations 760.0, 731.0, 731.0, 754.0 and 757.0, respectively. Ensure Piles are seated on sound rock and not rubble. Piles shall be seated with the pile hammer to ensure refusal on hard rock in accordance with Sec 702 and no additional pile driving verification method is required.

Manufactured pile point reinforcement shall be used on all piles in this structure.

All piles shall be galvanized down to minimum galvanized penetration (elevation).

Pile point reinforcement need not be galvanized. Shop drawings will not be required for pile point reinforcement.

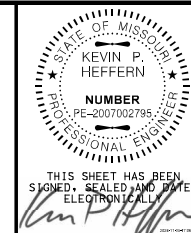
HP piles are anticipated to be driven to refusal on rock. Review all borings for depth of rock and restrict driving as appropriate to comply with hard rock driving criteria in accordance with Sec 702. When pile refusal on rock occurs, as approved by the engineer, the minimum nominal axial compressive resistance is verified and no additional pile driving verification method is required.

GENERAL NOTES & QUANTITIES

Detailed: Sep. 2024
Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 2 of 32



DATE PREPARED
11/5/2024

ROUTE STATE
I-70 MO
DISTRICT SHEET NO.
BR 2

COUNTY
SALINE

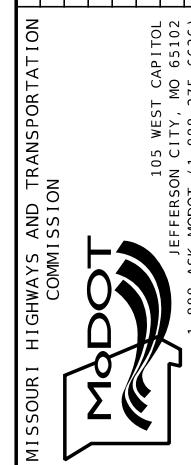
JOB NO.
JST0016B

CONTRACT ID.

PROJECT NO.

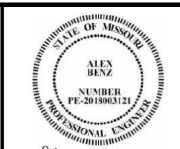
BRIDGE NO.
A9614

DATE	DESCRIPTION



Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BMcD Project No. 171819

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



Alex C. Benz
 11/05/2024 9:37:08 AM
 Alex Benz - Civil
 MO PE-201803121

DATE PREPARED
 11/5/2024

ROUTE STATE
 I - 70 MO
 DISTRICT SHEET NO.
 BR 5

COUNTY
 SALINE
 JOB NO.
 JST0016B
 CONTRACT ID.

PROJECT NO.

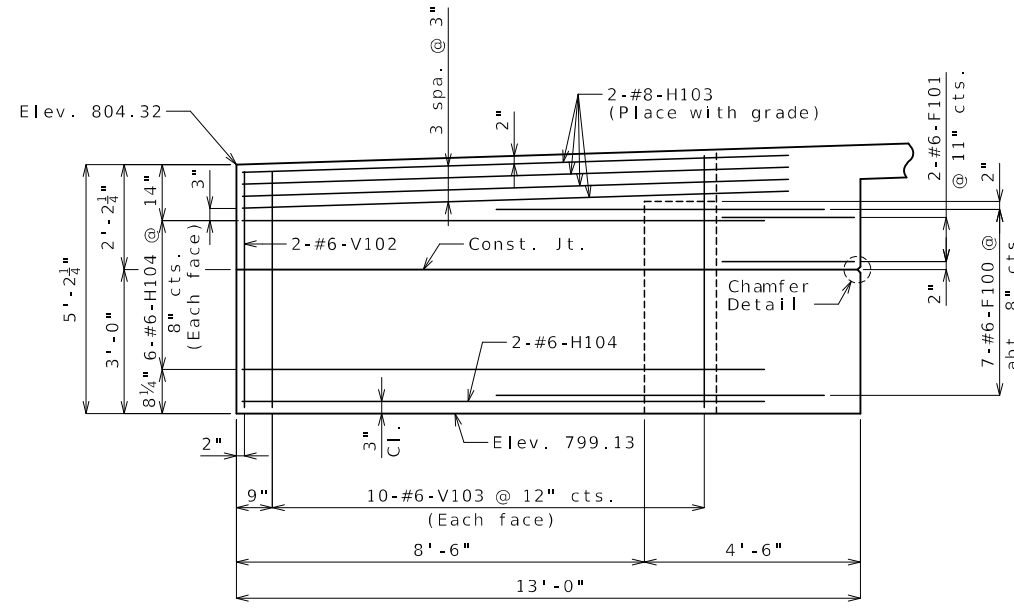
BRIDGE NO.
 A9614

DATE	DESCRIPTION

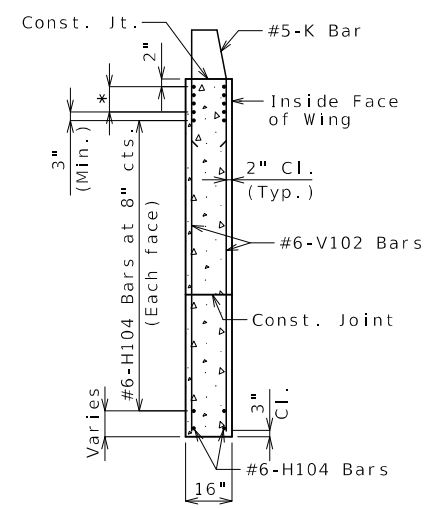
MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

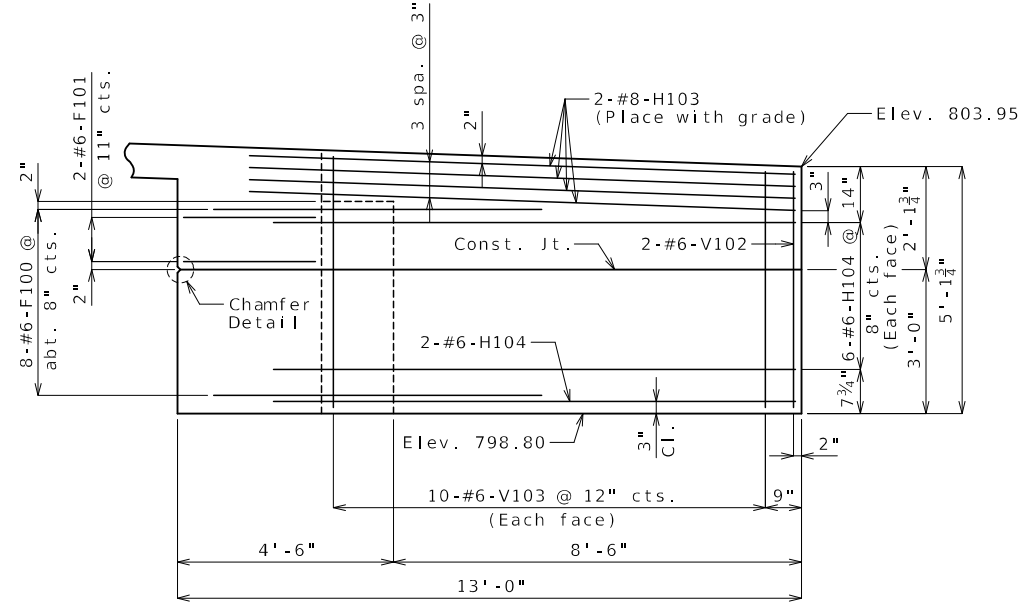
EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578



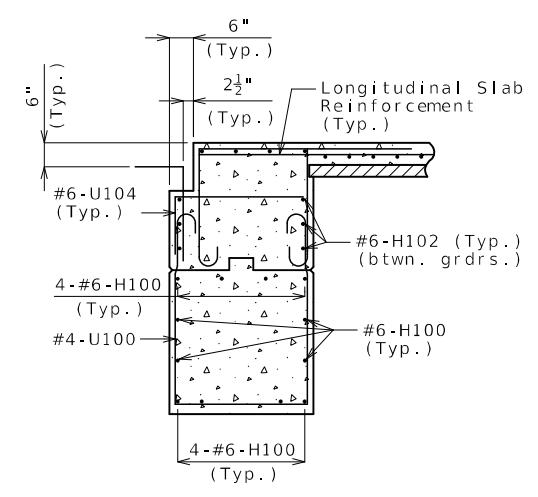
ELEVATION D-D (END BENT NO. 1)
 Right wingwall shown, left wingwall similar



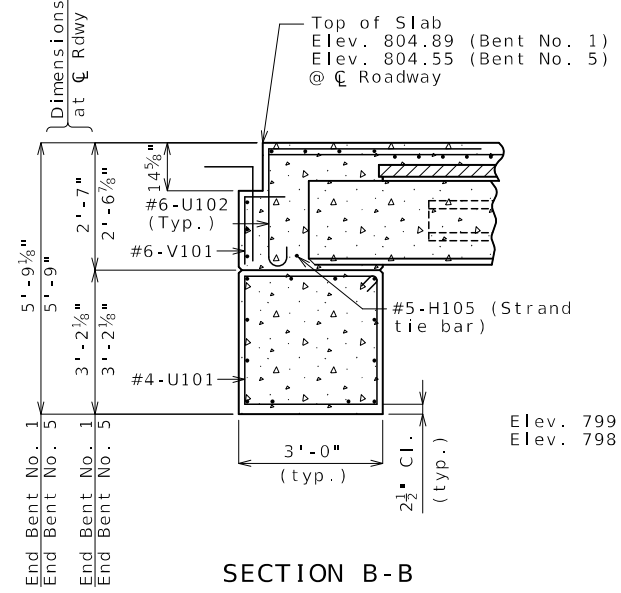
TYPICAL SECTION THRU WING
 * #8-H103 Bars at 3" cts. (Each face) (Place with grade)



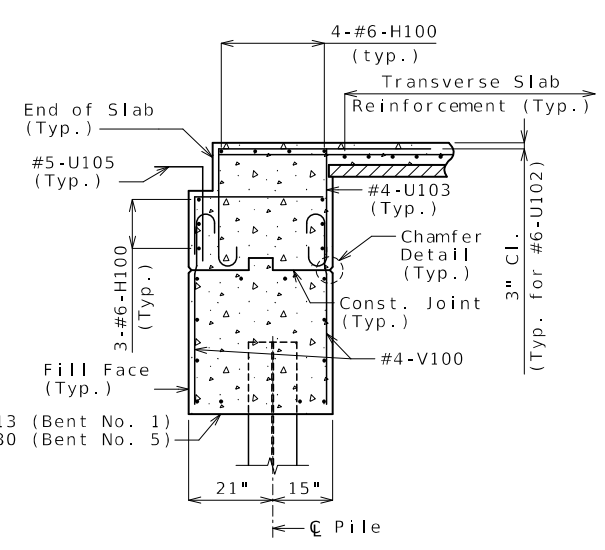
ELEVATION E-E (END BENT NO. 5)
 Right wingwall shown, left wingwall similar



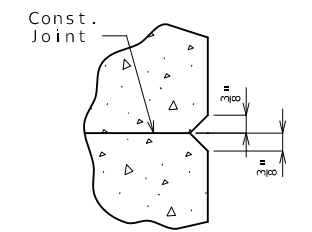
SECTION A-A



SECTION B-B



SECTION C-C



CHAMFER DETAIL

General Notes:
 Work this sheet with Sheets No. 3 & 4.
 For reinforcement of the Type H Barrier, see Sheets No. 20 & 21.

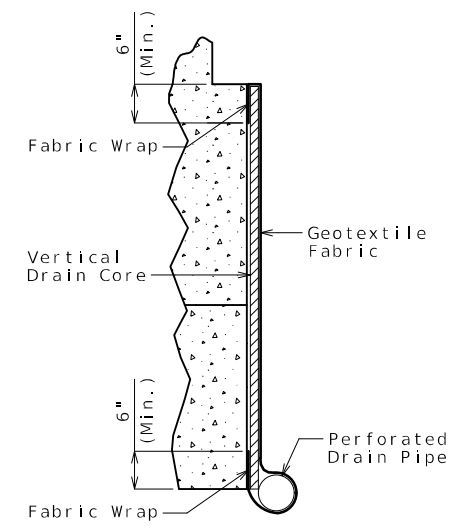
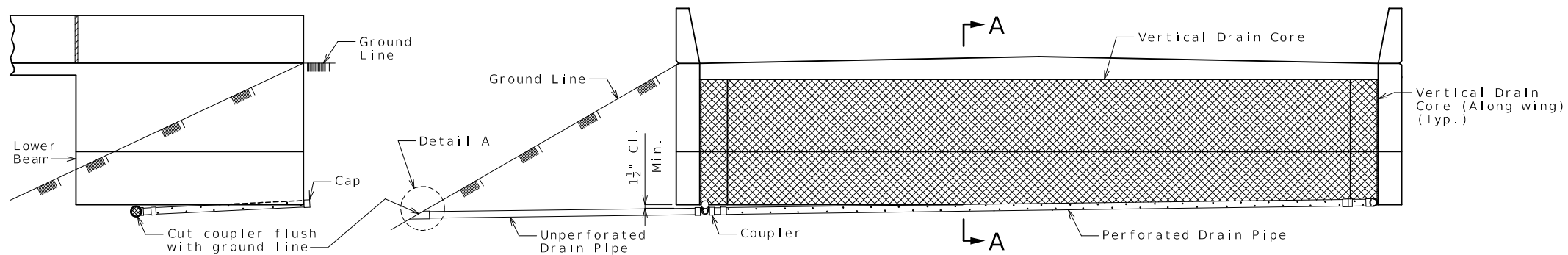
**END BENTS NO. 1 & 5
 WING DETAILS & SECTIONS**

Detailed: Sep. 2024
 Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

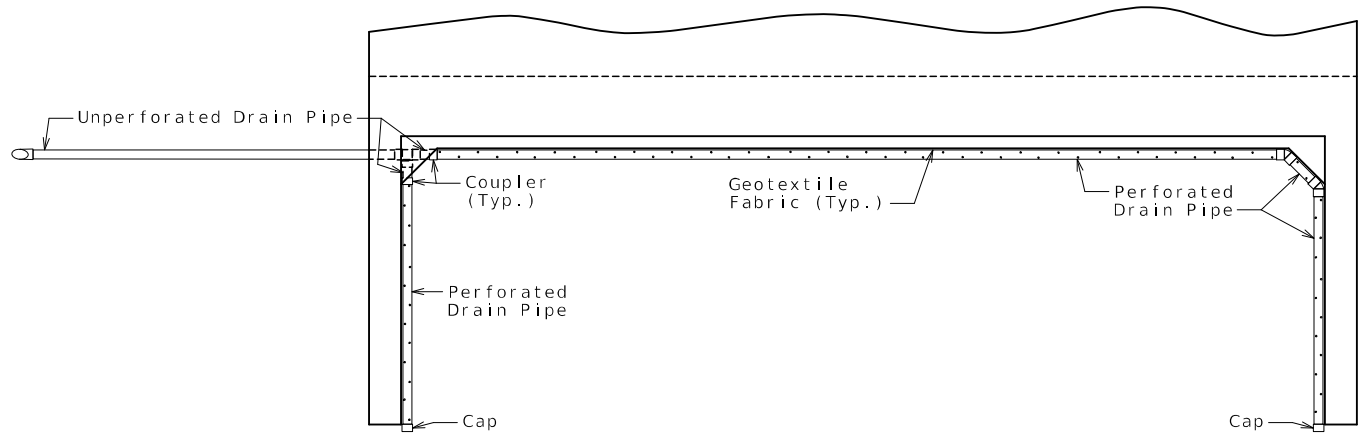
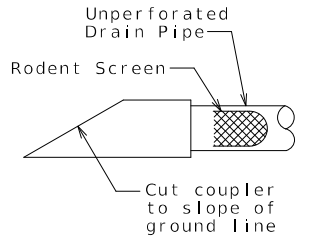
Sheet No. 5 of 32

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

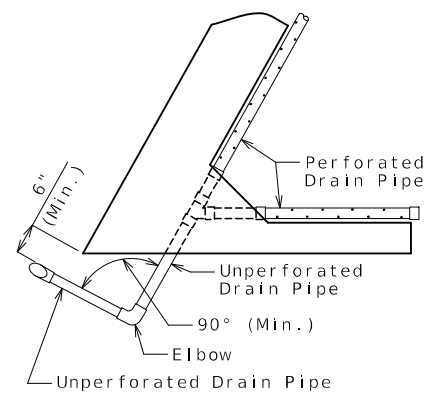
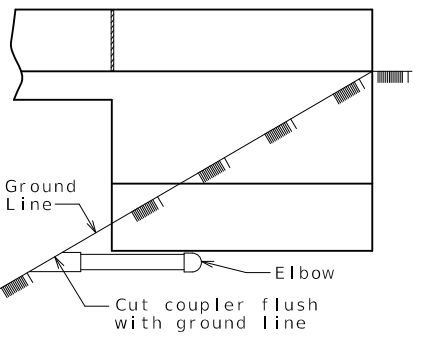


ELEVATION OF WING

ELEVATION OF END BENT



PLAN OF END BENT



OPTIONAL TURNED DRAIN
(Use only when straight drain is not practical.)

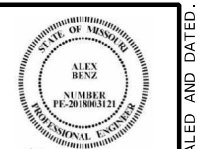
General Notes:

All drain pipe shall be sloped 1 to 2 percent.

Drain pipe may be either 6-inch diameter corrugated metallic-coated steel pipe underdrain, 4-inch diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4-inch diameter corrugated polyethylene (PE) drain pipe.

Drain pipe shall be placed at fill face of end bent and inside face of wings. The pipe shall slope to lowest grade of ground line, also missing the lower beam of end bent by a minimum of 1 1/2 inches.

Perforated pipe shall be placed at fill face side and inside face of wings at the bottom of end bent and plain pipe shall be used where the vertical drain ends to the exit at ground line.



Alex C. Benz
11/05/2024 9:37:18 AM
Alex Benz - Civil
MO PE-2018003121

DATE PREPARED 11/5/2024	
ROUTE I - 70	STATE MO
DISTRICT BR	SHEET NO. 6
COUNTY SALINE	
JOB NO. JST0016B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9614	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

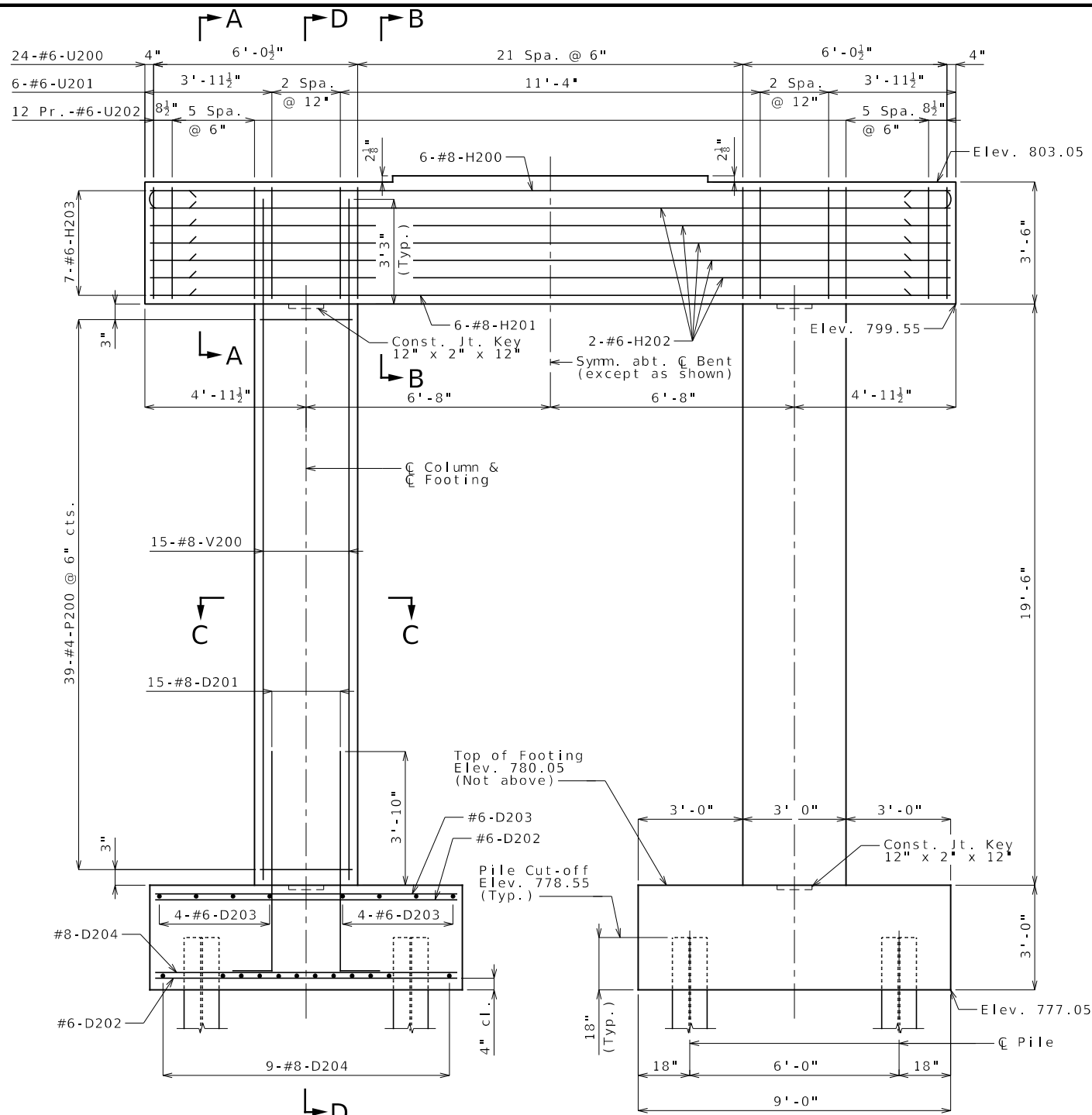
VERTICAL DRAIN AT END BENTS

Detailed: Sep. 2024
Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

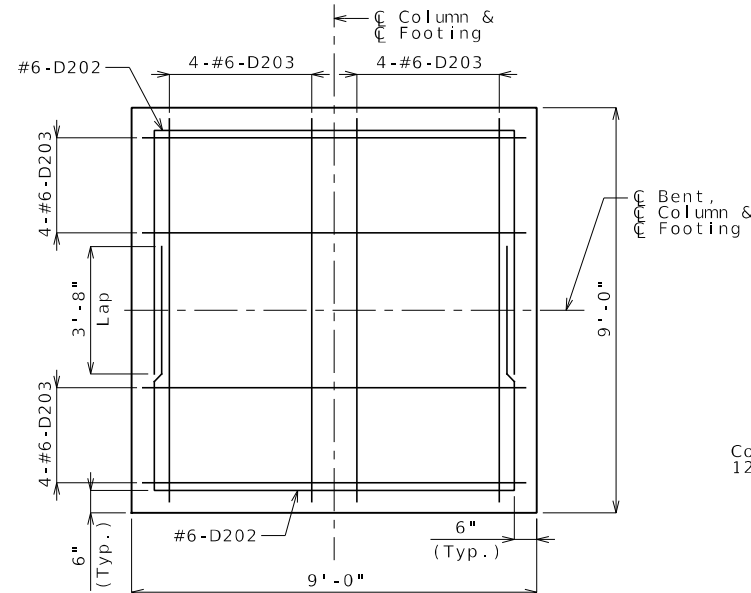
Sheet No. 6 of 32

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

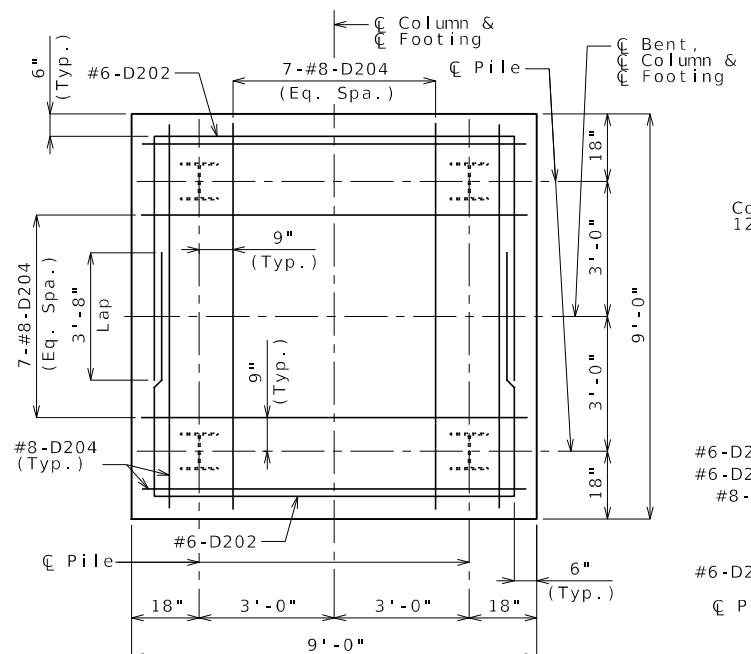


ELEVATION

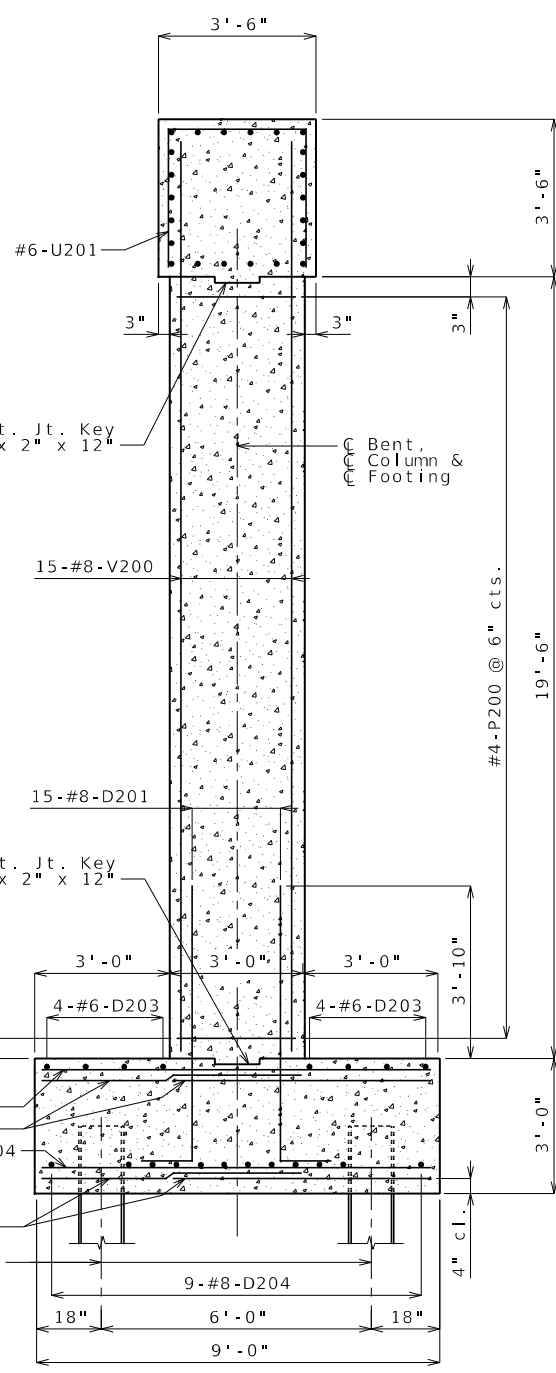
Note: Keys on beam not shown for clarity.



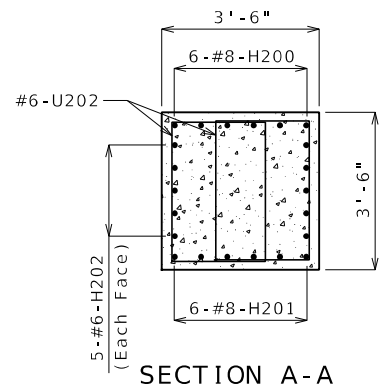
PLAN OF FOOTING SHOWING TOP REINFORCEMENT



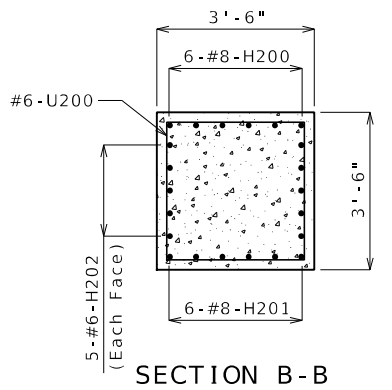
PLAN OF FOOTING SHOWING BOTTOM REINFORCEMENT



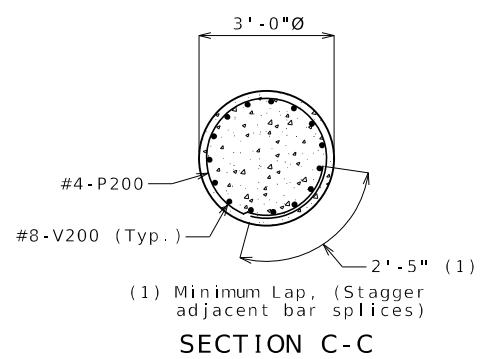
SECTION D-D



SECTION A-A



SECTION B-B



SECTION C-C

(1) Minimum Lap, (Stagger adjacent bar splices)

NOTES:
Work this sheet with Sheet No. 8.

DETAILS OF INTERMEDIATE BENT NO. 2

Detailed: Sep. 2024
Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 7 of 32



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED: 11/5/2024
ROUTE: I-70 STATE: MO
DISTRICT: BR SHEET NO.: 7

COUNTY: SALINE
JOB NO.: JST0016B
CONTRACT ID.

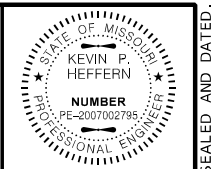
PROJECT NO.
BRIDGE NO.: A9614

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
9400 Ward Parkway
Kansas City, Missouri 64114
816-333-9400
Certificate of Authority
No. : 000165
BlcD Project No. 171819





THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY
 Kevin P. Heffern

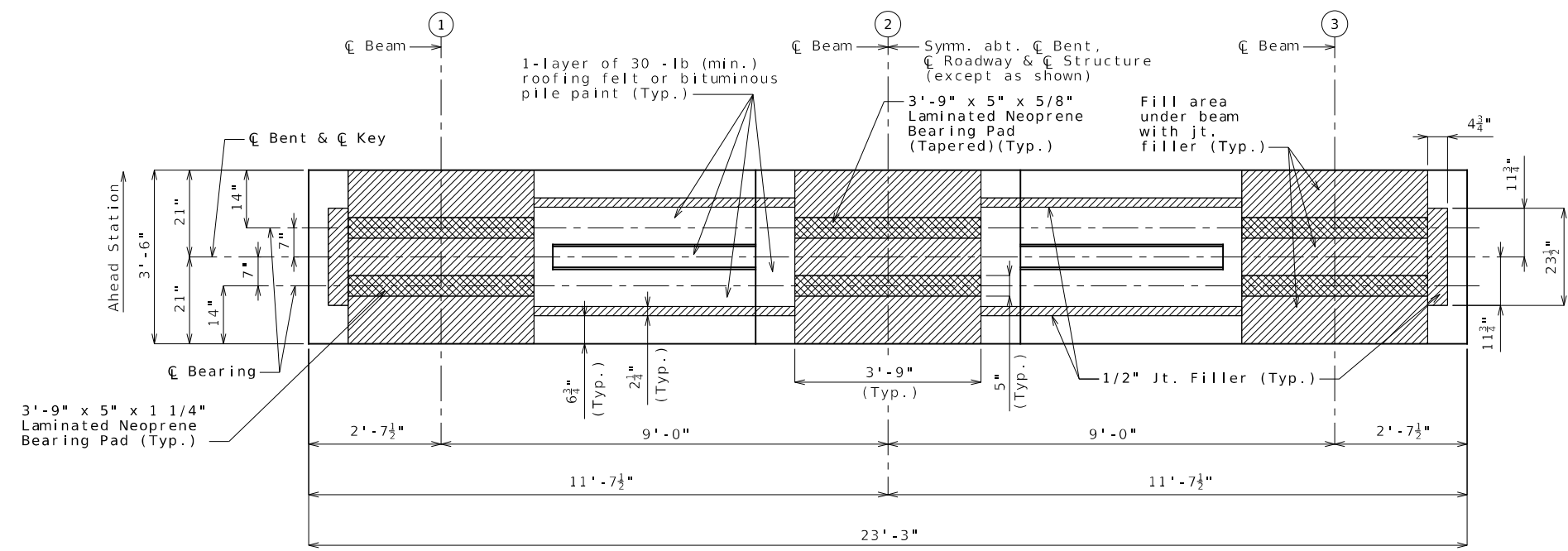
DATE PREPARED
 11/5/2024
 ROUTE STATE
 I-70 MO
 DISTRICT SHEET NO.
 BR 8
 COUNTY
 SALINE
 JOB NO.
 JST0016B
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.
 A9614

DATE	DESCRIPTION

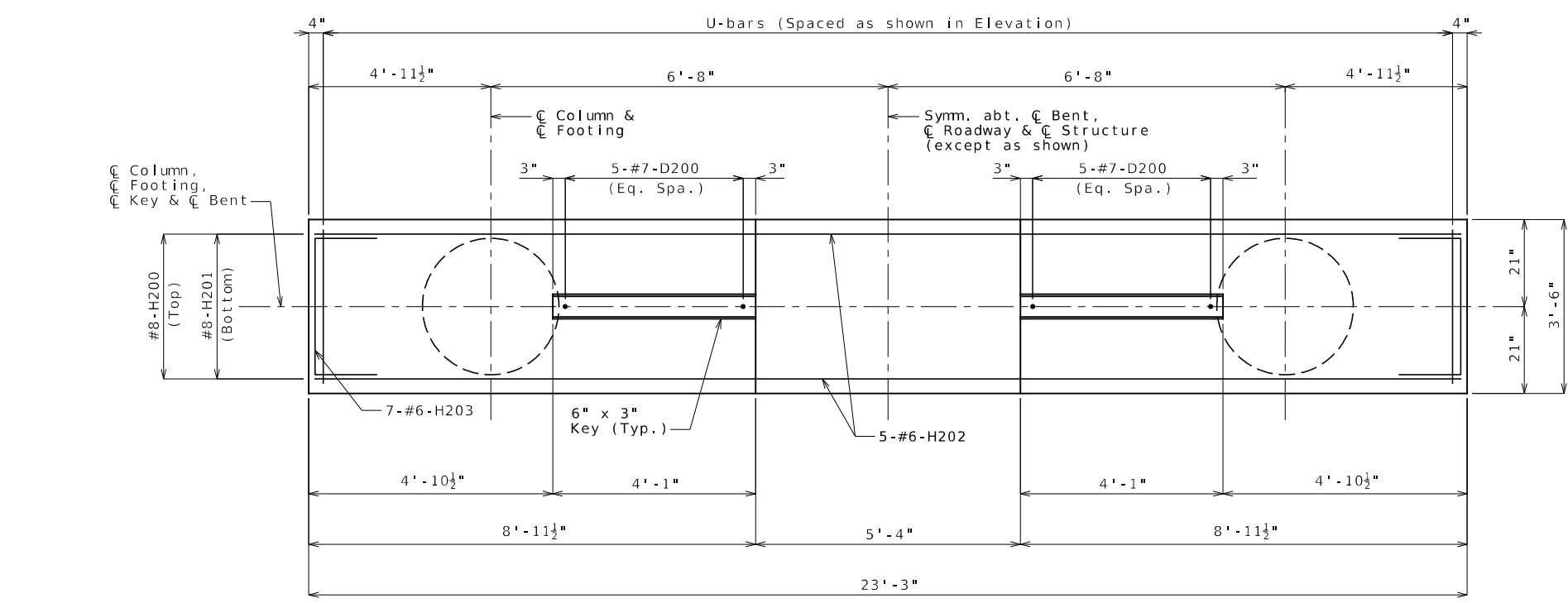
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 Bmcd Project No. 171819

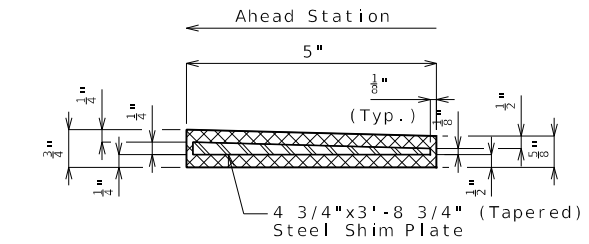
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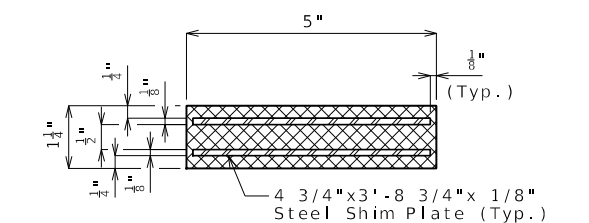
PLAN OF BEAM



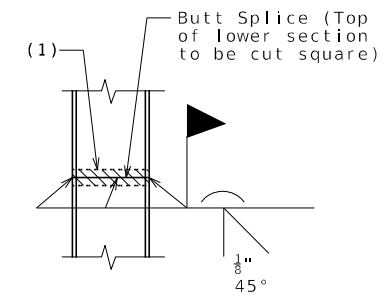
PLAN OF BEAM SHOWING REINFORCEMENT



SECTION THRU 5" X 3'-9" X 5/8" LAMINATED NEOPRENE BEARING PAD (TAPERED)
 (3 Required at forward bearing)



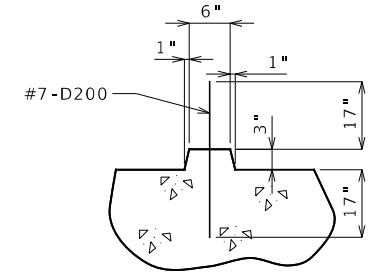
SECTION THRU 5" X 3'-9" X 1 1/4" LAMINATED NEOPRENE BEARING PAD
 (3 Required at back bearing)



STEEL PILE SPLICE
 (If required)

(1) Galvanizing material shall be omitted or removed one inch clear of weld locations in accordance with Sec 702.

NOTES:
 Work this sheet with Sheet No. 7.
 For steps 2 inches or more, use 2 1/4 x 1/2 inch joint filler up vertical face.



SECTION THRU KEY

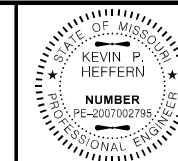
Item	Quantity
Class 1 Excavation	cu. yard 100
Galvanized Structural Steel Piles (12 in.)	linear foot 384
Pre-Bore for Piling	linear foot 368
Class B-1 Concrete (Substructure)	cu. yard 38.9
Reinforcing Steel (Epoxy Coated)	pound 6,960

These quantities are included in the Estimated Quantities table on Sheet No. 2.
 Detailed: Sep. 2024
 Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 8 of 32

DETAILS OF INTERMEDIATE BENT NO. 2



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 11/5/2024

ROUTE I-70 STATE MO

DISTRICT BR SHEET NO. 10

COUNTY SALINE

JOB NO. JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A9614

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

9400 Ward Parkway Kansas City, Missouri 64114 816-333-9400

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

Certificate of Authority No. : 000165

BMcD Project No. 171819

Burns & McDonnell Engineering Co., Inc.

1-888-ASK-MODOT (1-888-275-6636)

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

Certificate of Authority No. : 000165

BMcD Project No. 171819

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway Kansas City, Missouri 64114 816-333-9400

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

Certificate of Authority No. : 000165

BMcD Project No. 171819

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway Kansas City, Missouri 64114 816-333-9400

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

Certificate of Authority No. : 000165

BMcD Project No. 171819

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway Kansas City, Missouri 64114 816-333-9400

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

Certificate of Authority No. : 000165

BMcD Project No. 171819

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway Kansas City, Missouri 64114 816-333-9400

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

Certificate of Authority No. : 000165

BMcD Project No. 171819

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway Kansas City, Missouri 64114 816-333-9400

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

Certificate of Authority No. : 000165

BMcD Project No. 171819

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway Kansas City, Missouri 64114 816-333-9400

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

Certificate of Authority No. : 000165

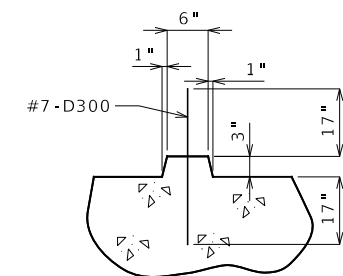
BMcD Project No. 171819

Burns & McDonnell Engineering Co., Inc.

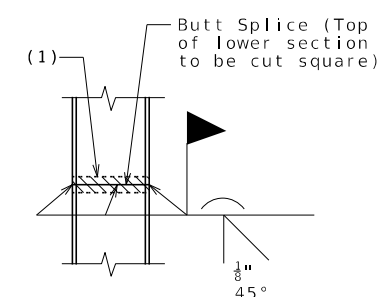
9400 Ward Parkway Kansas City, Missouri 64114 816-333-9400

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)



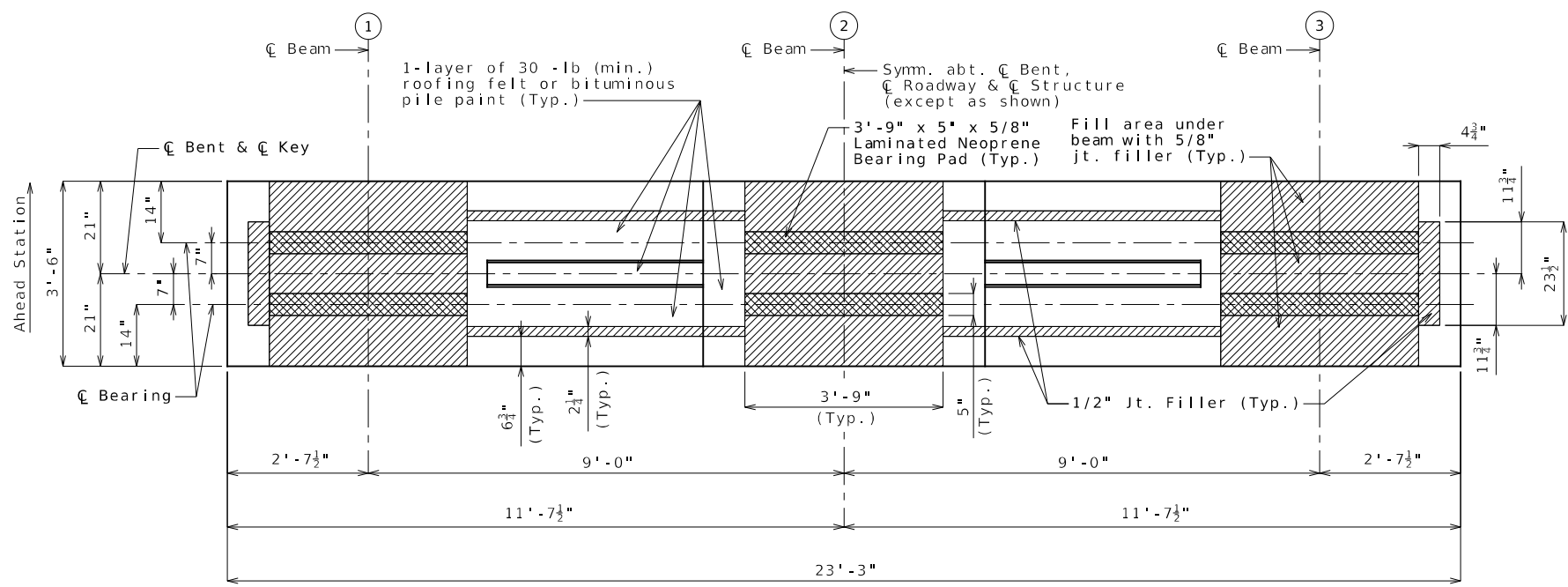
SECTION THRU KEY



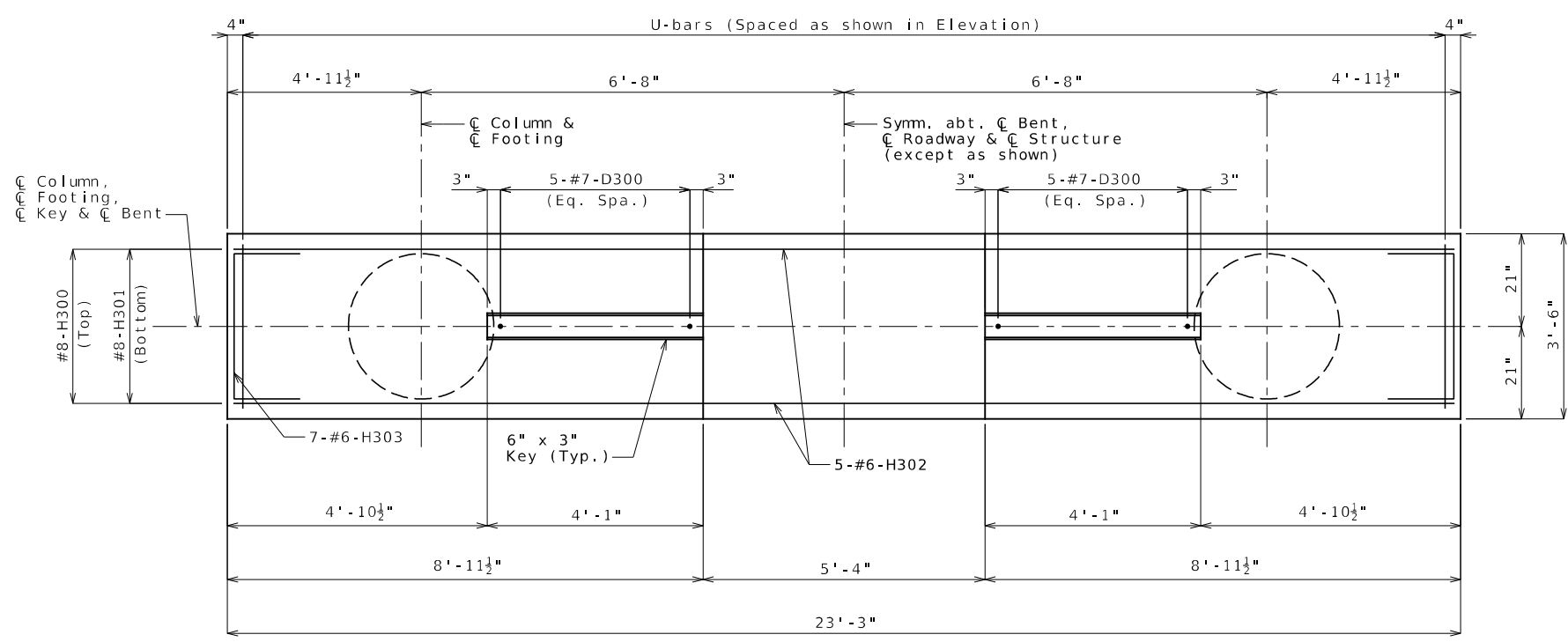
STEEL PILE SPLICE (If required)

(1) Galvanizing material shall be omitted or removed one inch clear of weld locations in accordance with Sec 702.

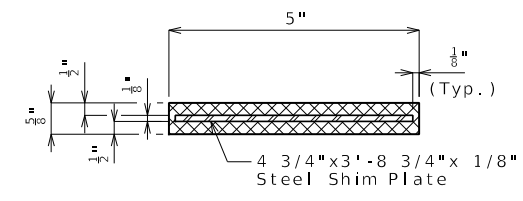
NOTES:
Work this sheet with Sheet No. 9.
For steps 2 inches or more, use 2 1/4 x 1/2 inch joint filler up vertical face.



PLAN OF BEAM



PLAN OF BEAM SHOWING REINFORCEMENT



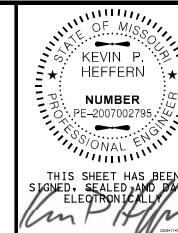
SECTION THRU 5" X 3'-9" X 5/8" LAMINATED NEOPRENE BEARING PAD

Substructure Quantity Table for Int. Bent No. 3		
Item		Quantity
Class 1 Excavation	cu. yard	70
Galvanized Structural Steel Piles (12 in.)	linear foot	384
Pre-Bore for Piling	linear foot	368
Class B-1 Concrete (Substructure)	cu. yard	39.2
Reinforcing Steel (Epoxy Coated)	pound	7,010

These quantities are included in the Estimated Quantities table on Sheet No. 2.
Detailed: Sep. 2024
Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 10 of 32

DETAILS OF INTERMEDIATE BENT NO. 3



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 11/5/2024

ROUTE I-70 STATE MO

DISTRICT BR SHEET NO. 12

COUNTY SALINE

JOB NO. JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A9614

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-273-6636)

Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway Kansas City, Missouri 64114 816-333-9400

Certificate of Authority No. : 000165

BMcD Project No. 171819

1-888-ASK-MODOT (1-888-273-6636)

1-888-ASK-MODOT (1-888-273-6636)

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1-888-ASK-MODOT (1-888-273-6636)

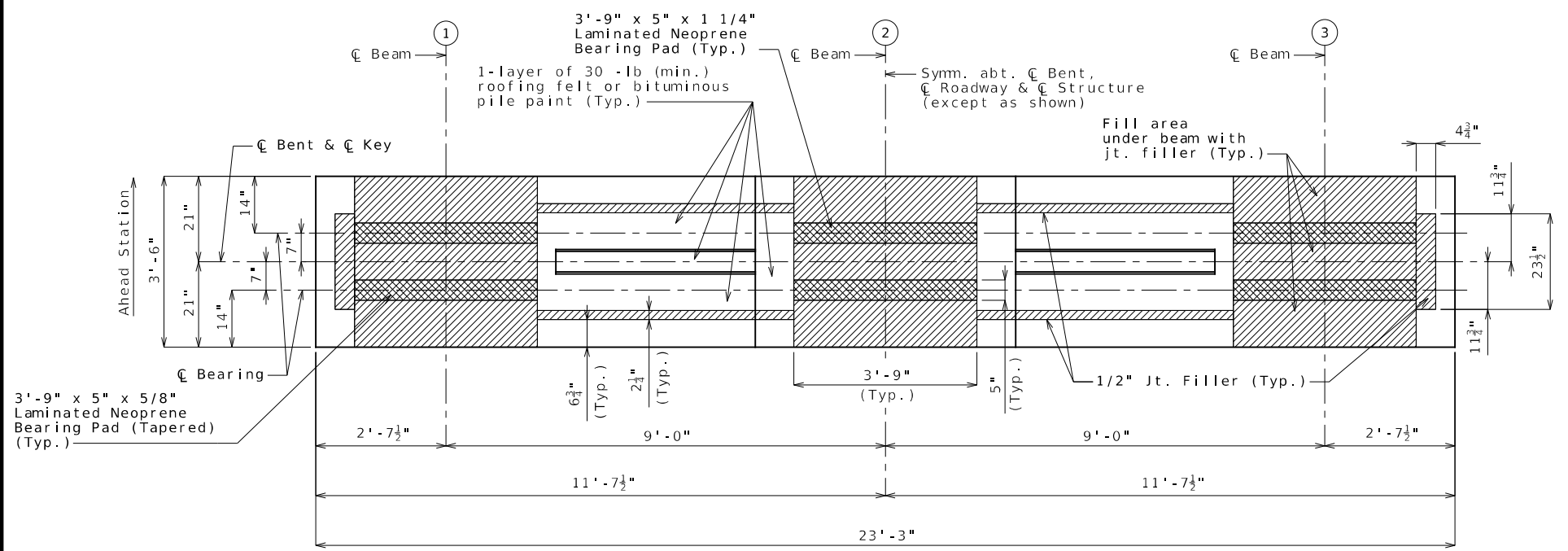
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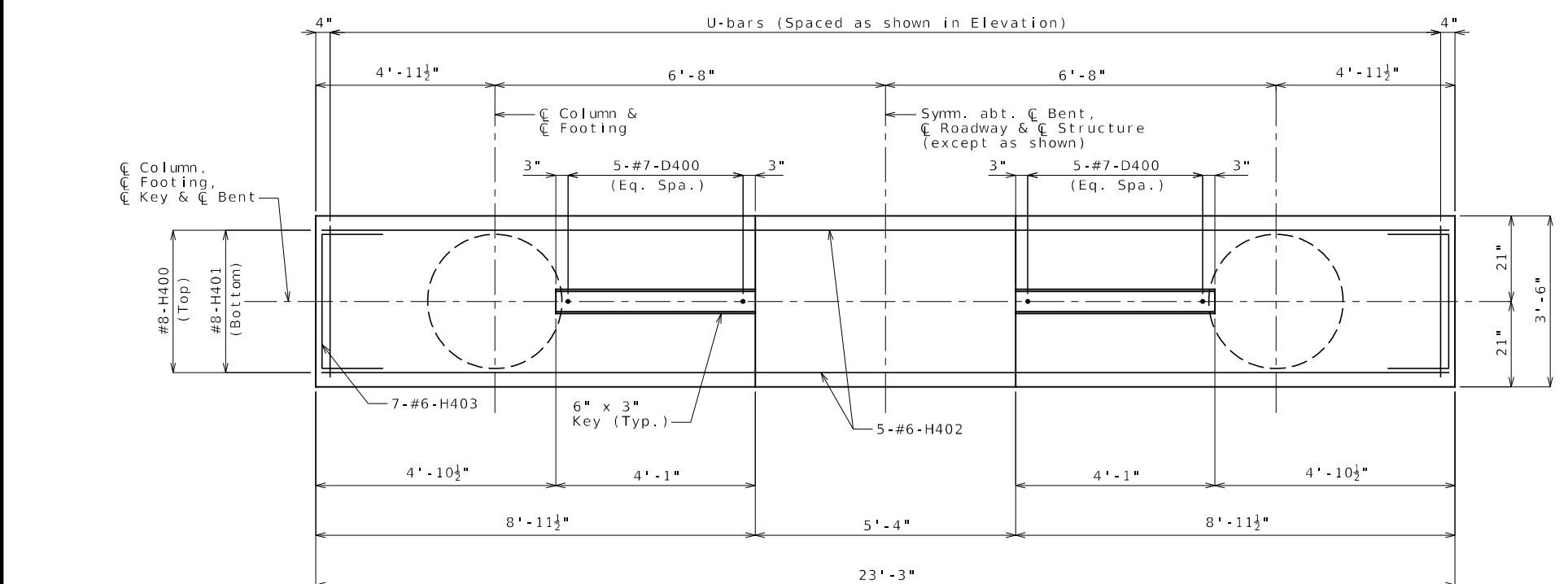
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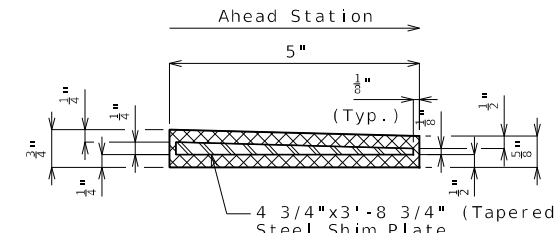
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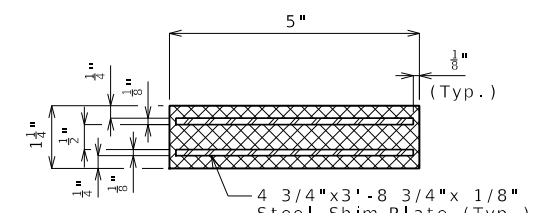
PLAN OF BEAM



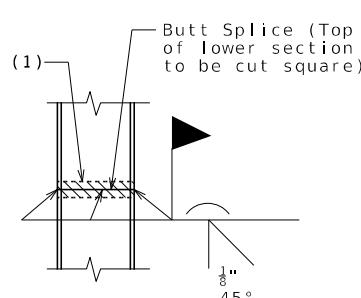
PLAN OF BEAM SHOWING REINFORCEMENT



SECTION THRU 5" X 3'-9" X 5/8" LAMINATED NEOPRENE BEARING PAD (TAPERED) (3 Required at back bearing)



SECTION THRU 5" X 3'-9" X 1 1/4" LAMINATED NEOPRENE BEARING PAD (3 Required at forward bearing)

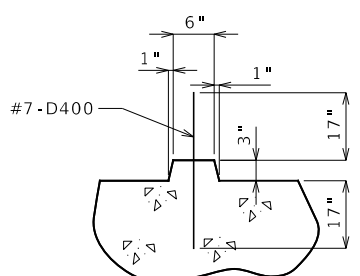


STEEL PILE SPLICE (If required)

NOTES:
 (1) Galvanizing material shall be omitted or removed one inch clear of weld locations in accordance with Sec 702.

Work this sheet with Sheet No. 11.

For steps 2 inches or more, use 2 1/4 x 1/2 inch joint filler up vertical face.



SECTION THRU KEY

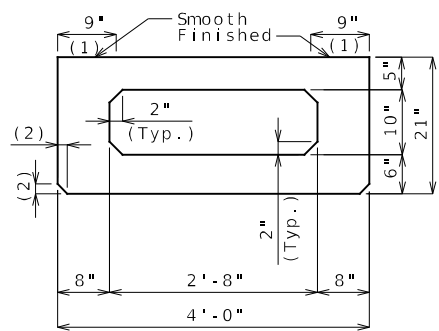
Substructure Quantity Table for Int. Bent No. 4		
Item		Quantity
Class 1 Excavation	cu. yard	105
Galvanized Structural Steel Piles (12 in.)	linear foot	184
Pre-Bore for Piling	linear foot	176
Class B-1 Concrete (Substructure)	cu. yard	39.5
Reinforcing Steel (Epoxy Coated)	pound	7,070

These quantities are included in the Estimated Quantities table on Sheet No. 2.
 Detailed: Sep. 2024
 Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 12 of 32

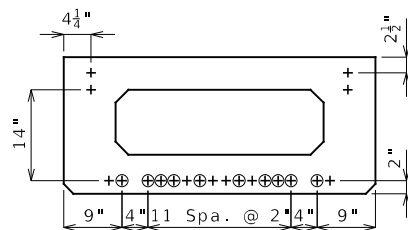
DETAILS OF INTERMEDIATE BENT NO. 4



DIMENSIONS

(1) Fabricator shall apply a bond breaker to this region excluding where joint filler will be applied.

(2) 1 1/2" (Typ.) (3/4" Optional)

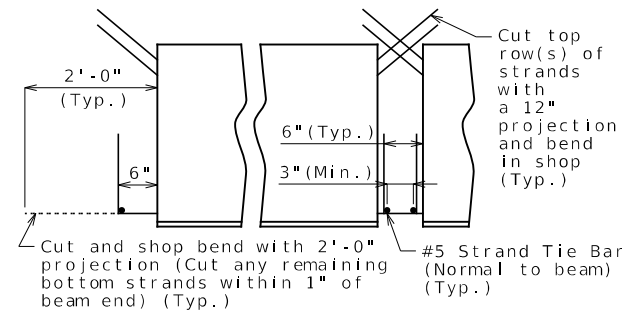


STRAND ARRANGEMENT

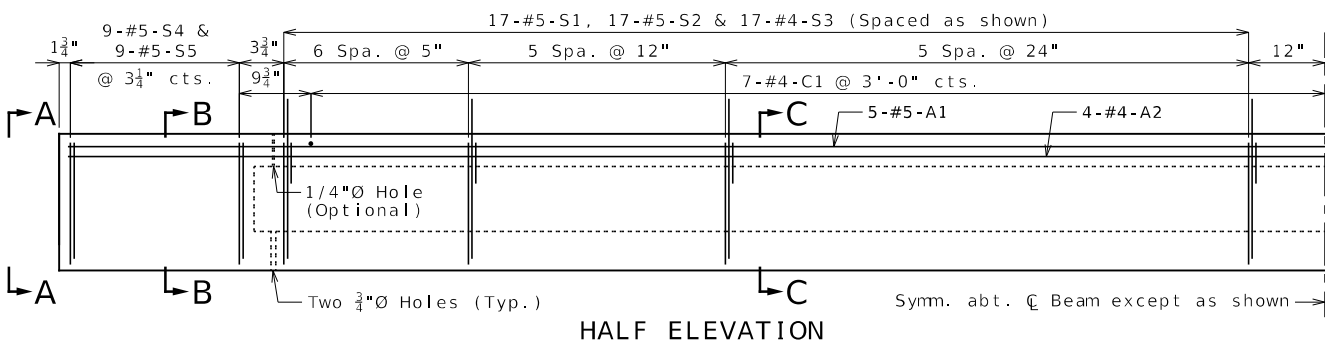
All strands are fully bonded unless otherwise noted.

+ Indicates prestressing strand.

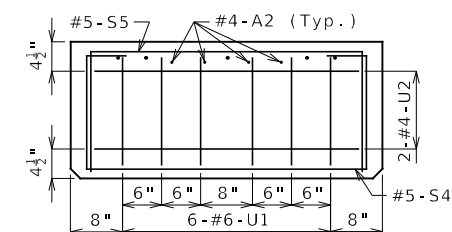
O Indicates cut and shop bend with 2'-0" projection.



STRANDS AT BEAM ENDS

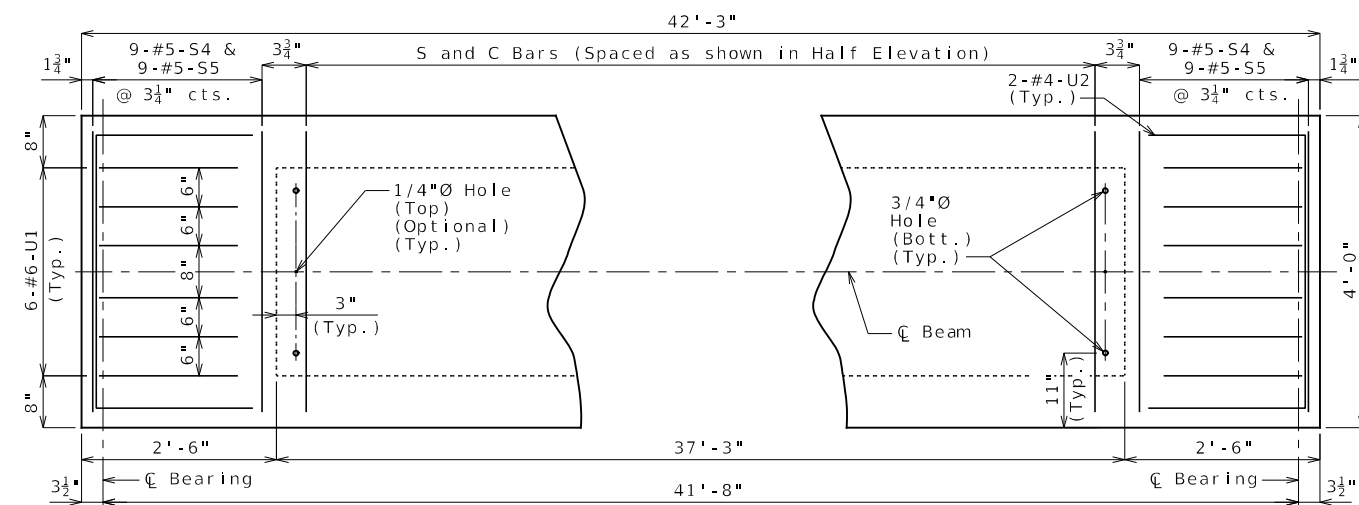


HALF ELEVATION

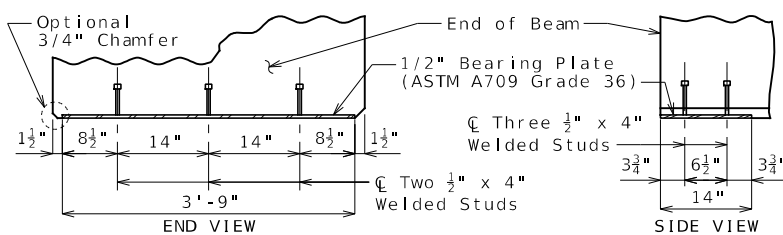


ELEVATION A-A

Strands not shown for clarity.



PART PLAN

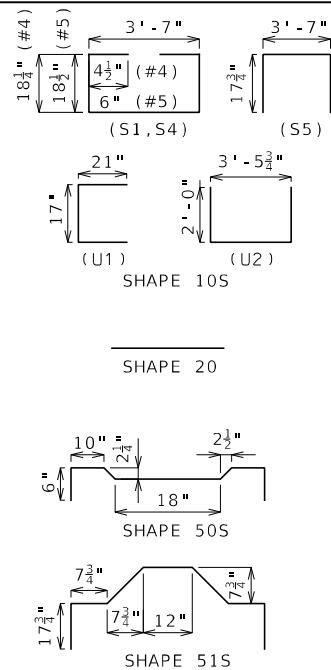


BEARING PLATE

Detailed: Sep. 2024
Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

BILL OF REINFORCING STEEL - EACH BEAM			
NO.	SIZE & MARK	ACTUAL LENGTH	SHAPE
5	5 A1	42'-0"	20
4	4 A2	42'-0"	20
13	4 C1	3'-7"	20
34	5 S1	7'-3"	10S
34	5 S2	6'-9"	51S
34	4 S3	4'-6"	50S
18	5 S4	7'-3"	10S
18	5 S5	6'-4"	10S
12	6 U1	4'-7"	10S
4	4 U2	7'-4"	10S



All dimensions are out to out. Use symmetry for dimensions not shown.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Actual lengths are measured along centerline of bar to the nearest inch.

Minimum clearance to reinforcing shall be one inch, unless otherwise shown.

All reinforcement shall be Grade 60.
All S2 bars shall be epoxy coated.

General Notes:

Concrete for prestressed beams shall be Class A-1 with f'c = 8000 psi and f'ci = 6500 psi.

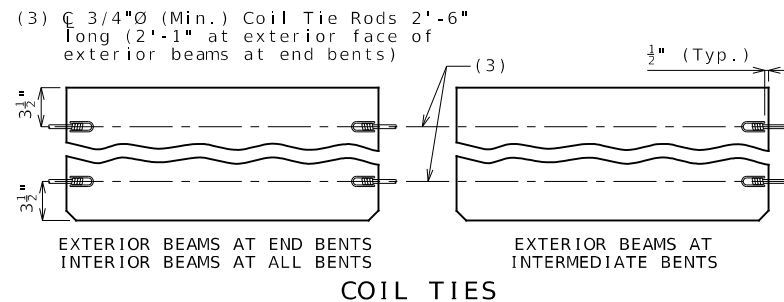
Use 20 strands, 0.6"Ø Grade 270, with an initial prestress force of 879 kips.

Pretensioned members shall be in accordance with Sec 1029.

Fabricator shall be responsible for location and design of lifting devices.

Exterior and interior beams are the same except: coil ties.
For Beam Camber Diagram, see Sheet No. 17.

For location of coil ties at concrete bent diaphragms, see Sheets No. 4 and 15.



COIL TIES

**SPREAD BOX BEAMS
SPANS (1-2) AND (4-5)**

Sheet No. 13 of 32

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 11/5/2024

ROUTE: I-70 STATE: MO

DISTRICT: BR SHEET NO.: 13

COUNTY: SALINE

JOB NO.: JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.: A9614

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

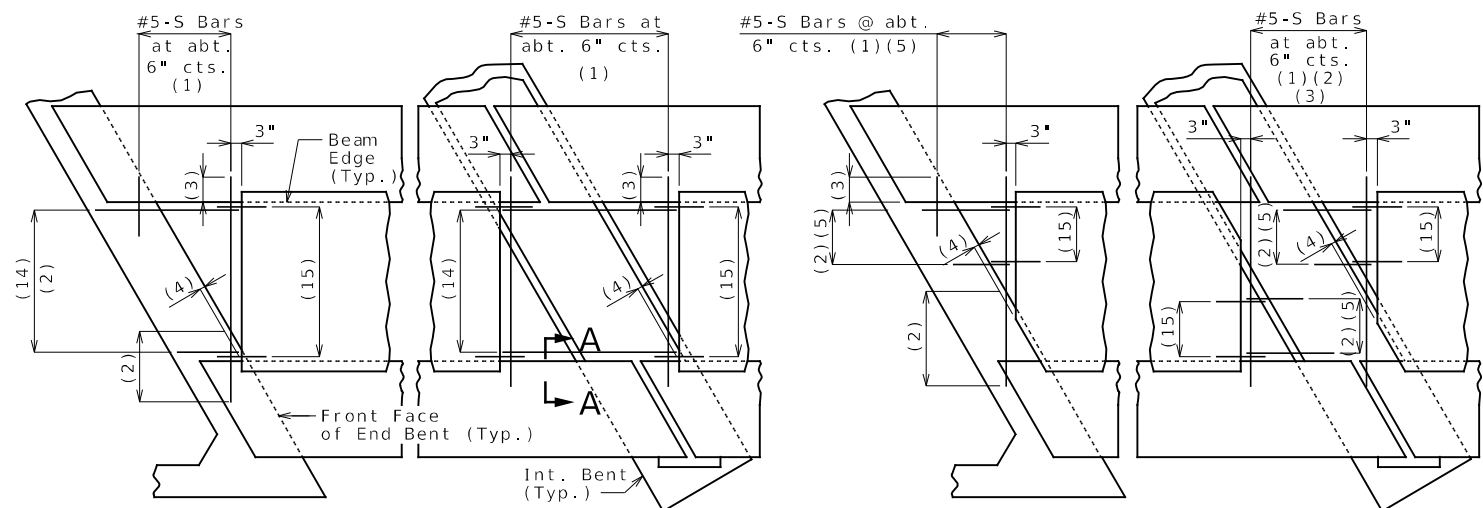
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.

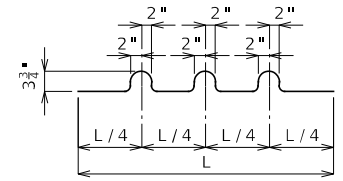
9400 Ward Parkway Kansas City, Missouri 64114 816-333-9400

Certificate of Authority No.: 000165

BMcD Project No. 171819

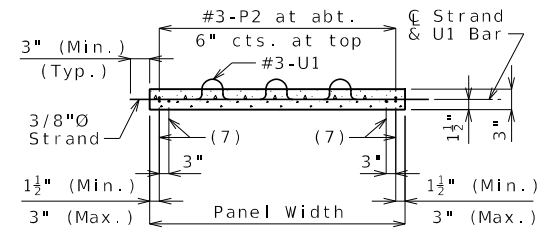


SQUARED END PANELS OR TRUNCATED END PANELS
 PLAN SHOWING PANEL PLACEMENT
 (14) #5-S Bars at abt. 9" cts. (1)
 (15) #3-P1 at 12" cts. (End panels only)

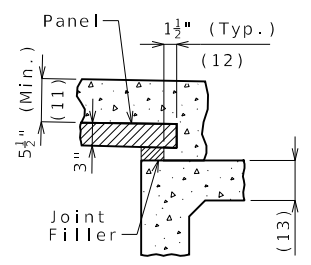


BENDING DIAGRAM FOR U1 BAR

U1 Bars may be oriented at right angles to location and spacing shown. U1 Bars shall be placed between P1 bars.



SECTION B-B

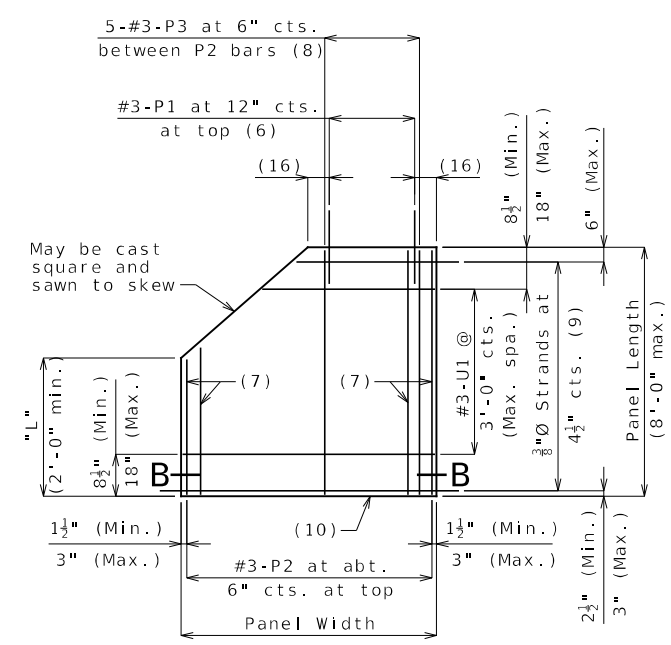


SECTION A-A

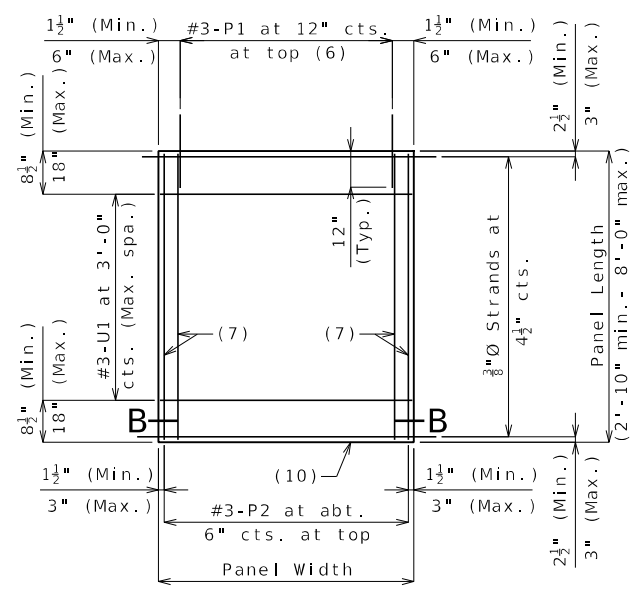
Joint Filler Dimensions		
Width	Height	
	Min.	Max.
3"	1"	4"

Reference Notes:

- Plan of Panel Placement:
 (1) S-bars shown are bottom steel in slab between panels and used with squared and truncated end panels only.
- (2) Extend S-bars 18 inches beyond the front face of end bents and int. bents for squared and truncated end panels only.
- (3) Extend S-bars 9 inches beyond edge of beam (Typ.).
- (4) End panels shall be dimensioned 1/2" min. to 1 1/2" max. from the inside face of diaphragm.
- (5) For truncated end panels, use a min. of #5-S bars at 6" crossings in openings, or min. 4x4-W7xW7.
- Plans of Panels:
 (6) For end panels only, P1 bars shall be 2'-0" in length and embedded 12". P1 bars will not be required for panels at squared integral end bents.
- (7) #3-P2 bars near edge of panel at bottom (under strands).
- (8) Use #3-P3 bars if panel is skewed 45° or greater.
- (9) Any strand 2'-0" or shorter shall have a #4 reinforcing bar on each side of it, centered between strands. Strands 2'-0" or shorter may then be debonded at the fabricator's option.
- (10) Optional 1/2" x 45° Chamfer one or both sides at bottom.
- Section A-A:
 (11) Slab thickness over prestressed panels varies due to beam camber. In order to maintain minimum slab thickness, it may be necessary to raise the grade uniformly throughout the structure. No payment will be made for additional labor or materials required for necessary grade adjustment.
- (12) Contractor shall ensure proper consolidation under and between panels.
- (13) At the contractor's option, the variation in slab thickness over prestressed panels may be eliminated or reduced by increasing and varying the beam top flange thickness. Dimensions shall be shown on the shop drawings.



PLAN OF OPTIONAL TRUNCATED END PANEL
 (16) 3" (Min.), 6" (Max.)



PLAN OF SQUARED PANEL

General Notes:

Prestressed Panels:
 Concrete for prestressed panels shall be Class A-1 with $f'c = 6,000$ psi, $f'ci = 4,000$ psi.

The top surface of all panels shall receive a scored finish with a depth of scoring of 1/8" perpendicular to the prestressing strands in the panels.

Prestressing tendons shall be high-tensile strength, uncoated, seven-wire, low-relaxation strands for prestressed concrete in accordance with AASHTO M 203 Grade 270, with nominal diameter of strand = 3/8" and nominal area = 0.85 sq. in. and minimum ultimate strength = 22.95 kips (270 ksi). Larger strands may be used with the same spacing and initial tension.

Initial prestressing force = 17.2 kips/strand.

The method and sequence of releasing the strands shall be shown on the shop drawings.

Suitable anchorage devices for lifting panels may be cast in panels, provided the devices are shown on the shop drawings and approved by the engineer. Panel lengths shall be determined by the contractor and shown on the shop drawings.

When squared end panels are used at skewed bents, the skewed portion shall be cast full depth. No separate payment will be made for additional concrete and reinforcing required.

Support from diaphragm forms is required under the optional skewed end until cast-in-place concrete has reached 3,000 psi compressive strength.

Prestressed panels shall be brought to saturated surface-dry (SSD) condition just prior to the deck pour. There shall be no free standing water on the panels or in the area to be cast.

The prestressed panel quantities are not included in the table of estimated quantities for the slab.

Reinforcing Steel:
 All dimensions are out to out.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

If U1 bars interfere with placement of slab steel, U1 loops may be bent over, as necessary, to clear slab steel.

Deformed welded wire reinforcement (WWR) providing a minimum area of reinforcing perpendicular to strands of 0.22 sq in./ft, with spacing parallel to strands sufficient to ensure proper handling, may be used in lieu of the #3-P2 bars shown. Wire diameter shall not be larger than 0.375 inch. The above alternative reinforcement criteria may be used in lieu of the #3-P3 bars, when required, and placed over a width not less than 2 feet.

The following reinforcing steel shall be tied securely to the strands with the following maximum spacing in each direction:
 #3-P2 bars at 16 inches.
 WWR at 24 inches.

The #3-U1 bars shall be tied securely to #3-P2 bars, to WWR or to strands (when placed between P1 bars) at about 3-foot centers.

Minimum reinforcement steel length shall be 2'-0".

All reinforcement other than prestressing strands shall be epoxy coated.

Precast panels may be in contact with stirrup reinforcing in diaphragms.

S-bars are not listed in the bill of reinforcing.

Cost of S-bars will be considered completely covered by the contract unit price for the slab.

Joint Filler:
 Joint filler shall be preformed fiber expansion joint material in accordance with Sec 1057 or expanded or extruded polystyrene bedding material in accordance with Sec 1073.

Use Slab Haunching Diagram on Sheet No. 17 for determining thickness of joint filler within the limits noted in the table of Joint Filler Dimensions.

Thicker material may be used on one or both sides of the beam to reduce cast-in-place concrete thickness to within tolerances.

The same thickness of preformed fiber expansion joint material shall be used under any one edge of any panel except at locations where top flange thickness may be stepped. The maximum change in thickness between adjacent panels shall be 1/2 inch. The polystyrene bedding material may be cut with a transition to match haunch height above top of flange.

Joint filler shall be glued to the beam. When thickness exceeds 1 1/2 inches, the joint filler shall be glued top and bottom. The glue used shall be the type recommended by the joint filler manufacturer.

Edges of panels shall be uniformly seated on the joint filler before slab reinforcement is placed.

DETAILS OF PRESTRESSED PANELS

Detailed: Sep. 2024
 Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 16 of 32

STATE OF MISSOURI
 KEVIN P. HEFFERN
 NUMBER PE-2007002795
 PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY
 Kevin P. Heffern

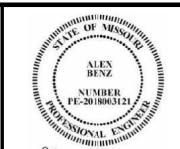
DATE PREPARED: 11/5/2024
 ROUTE: I-70 STATE: MO
 DISTRICT: BR SHEET NO.: 16
 COUNTY: SALINE
 JOB NO.: JST0016B
 CONTRACT ID.:
 PROJECT NO.:
 BRIDGE NO.: A9614

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority
 No. : 000165
 Bmcd Project No. 171819



Alex C. Benz
11/05/2024 9:37:37 AM
Alex Benz - Civil
MO PE-2018003121

DATE PREPARED
11/5/2024

ROUTE STATE
I - 70 MO

DISTRICT SHEET NO.
BR 19

COUNTY
SALINE

JOB NO.
JST0016B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9614

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

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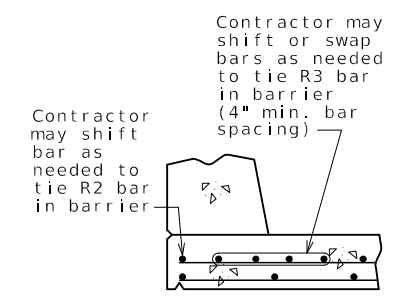
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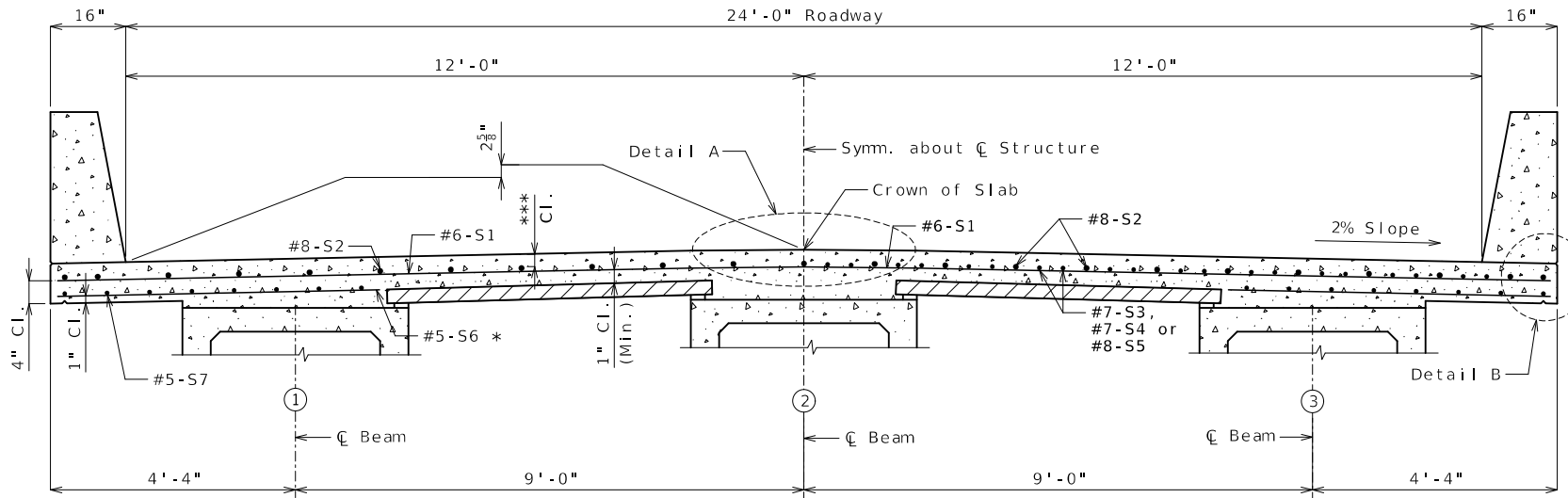
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



OPTIONAL SHIFTING TOP BARS AT BARRIER

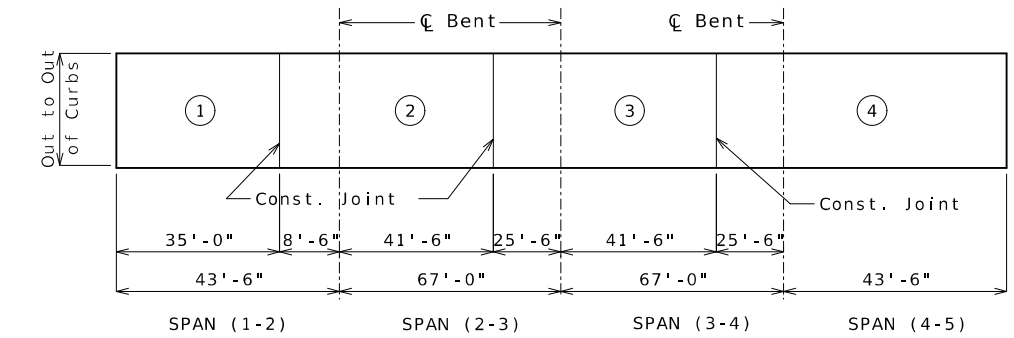
*** 2 7/8" (#7)
2 3/4" (#8)



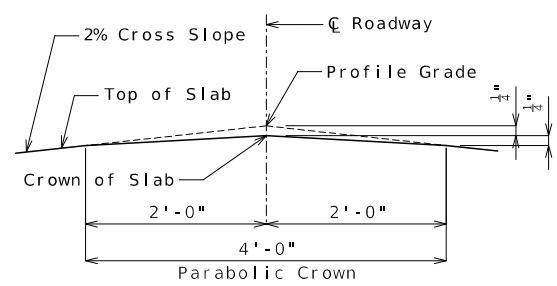
HALF SECTION NEAR MIDSPAN HALF SECTION NEAR INTERMEDIATE BENT

SECTION THRU SLAB

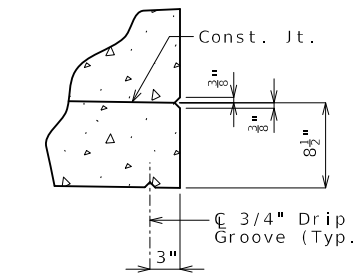
* Alternate bar shape available, see barrier sheet.



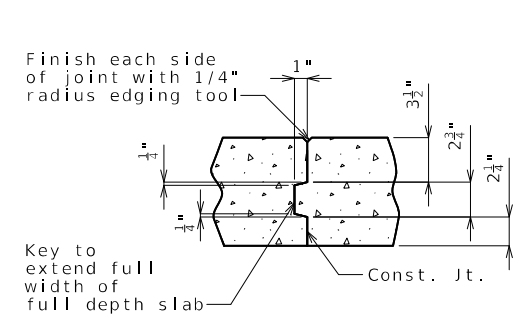
SPAN (1-2) SPAN (2-3) SPAN (3-4) SPAN (4-5)



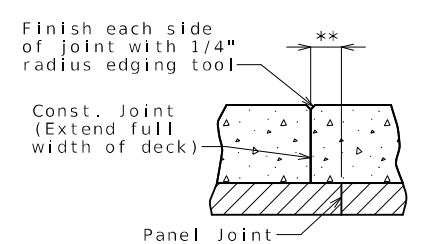
DETAIL A



DETAIL B



FULL DEPTH SLAB



SLAB ON PANELS

SLAB CONSTRUCTION JOINT

** Adjust the construction joint to a clearance of 6 inches minimum from the panel joint.

	Sequence of Pours				Min. Rate of Pour Cu. Yds./Hr.
	Direction				
Basic Sequence	1	2	3	4	25
	End to 2	1 to 3	2 to 4	3 to End	
Alternate pours to the basic sequence are subject to the approval of the engineer in accordance with Sec 703.					
Alternate A Pours	1 + 2	3	4		25
	End to 3	2 to 4	3 to End		
Alternate B Pours	1 + 2	3 + 4			25
	End to 3	2 to End			
Alternate C Pours	1 + 2 + 3 + 4				25
	End to End				

The contractor shall furnish an approved retarder to retard the set of the concrete to 2.5 hours, and shall pour and satisfactorily finish the slab pours at the rate given.

The concrete diaphragm at the intermediate bents and integral end bents shall be poured a minimum of 30 minutes and a maximum of 2 hours before the slab is poured.

SLAB POURING SEQUENCE

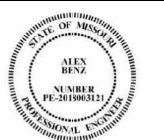
- Notes:
- For details of precast prestressed panels, see Sheet No. 16.
 - For reinforcement of barrier not shown, see Sheet No. 20.
 - For Theoretical Bottom of Slab Elevations, Girder Camber Diagram and Theoretical Slab Haunching Diagram, see Sheet No. 17.
 - For Plan of Slab Showing Reinforcement, see Sheet No. 18.

SLAB SECTION & DETAILS

Detailed: Sep. 2024
Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 19 of 32



11/05/2024 9:37:44 AM
Alex Benz - Civil
MO PE-2018003121

DATE PREPARED
11/5/2024

ROUTE I-70 STATE MO
DISTRICT BR SHEET NO. 20

COUNTY SALINE
JOB NO. JST0016B
CONTRACT ID.

PROJECT NO.

BRIDGE NO. A9614

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

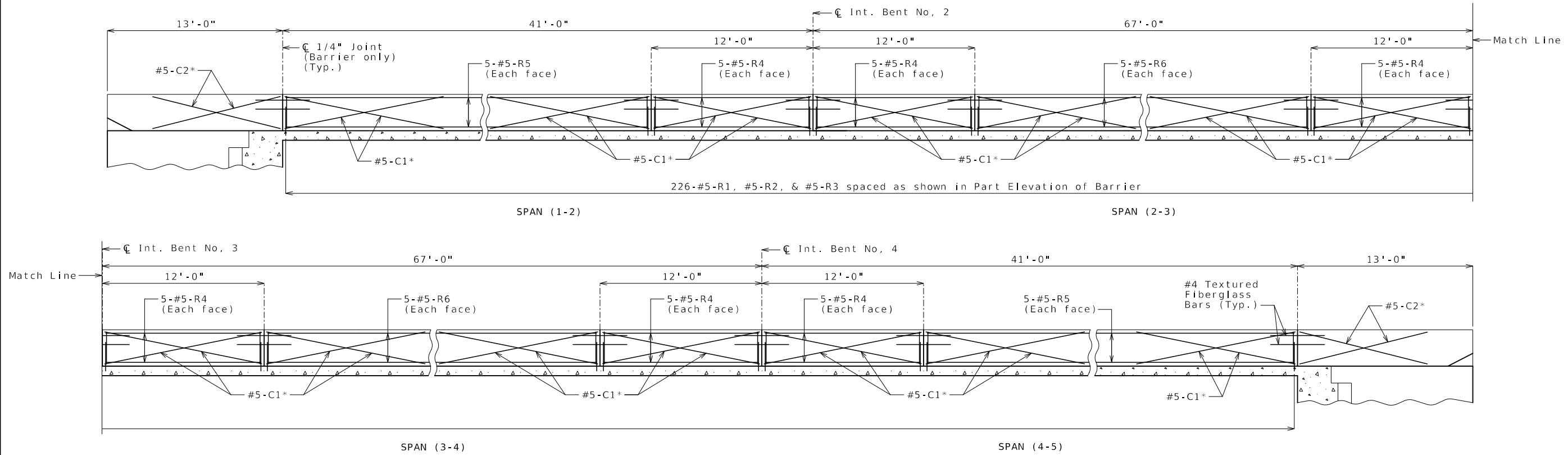


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

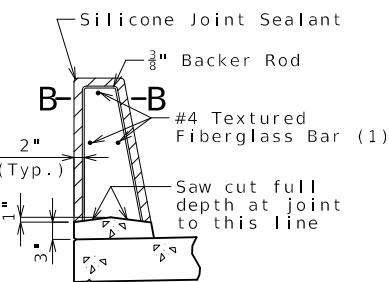


Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

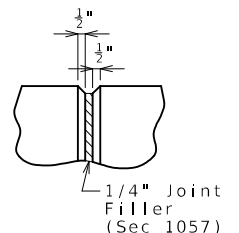
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



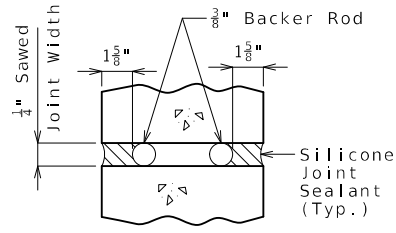
ELEVATION OF BARRIER
(Left barrier shown, right barrier similar)
Longitudinal dimensions are horizontal.



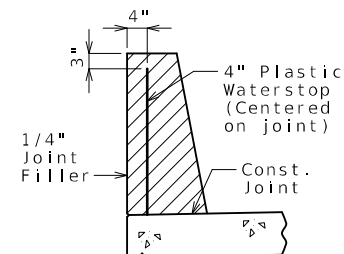
SECTION THRU SAW CUT JOINT



PART ELEVATION AT FORMED JOINT



SECTION B-B



WATERSTOP DETAIL

Plastic waterstop shall be placed in all formed joints except structures with superelevation, use on lower joints only.

Cost of plastic waterstop, complete in place, will be considered completely covered by the contract unit price for Type H Barrier.

General Notes:

* Slip-formed option only.
Conventional forming or slip forming may be used. Saw cut joints may be used with conventional forming.

Top of barrier shall be built parallel to grade and barrier joints (except at end bents) normal to grade.

All exposed edges of barrier shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.

Payment for all concrete and reinforcement, complete in place, will be considered completely covered by the contract price for Type H Barrier per linear foot.

Concrete in barrier shall be Class B-1.

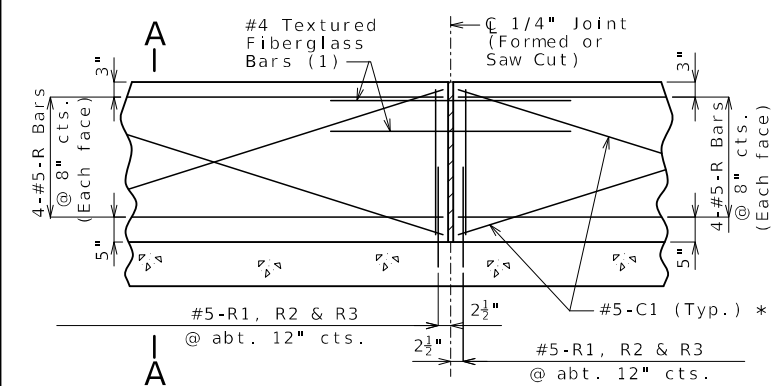
Measurement of barrier is to the nearest linear foot for each structure, measured along the outside top of slab from end of wing to end of wing.

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type H Barrier.

Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

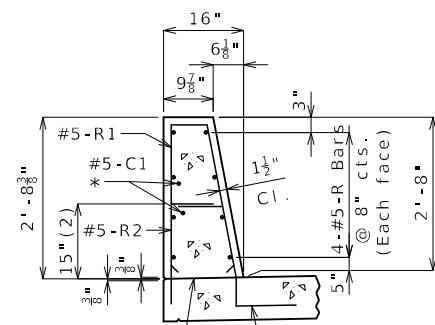
For slip-formed option, both sides of barrier shall have a vertically broomed finish and the top shall have a transversely broomed finish.

Plastic waterstop shall not be used with saw cut joints.



PART ELEVATION OF BARRIER

(1) Four feet long, centered on joint, slip-formed option only

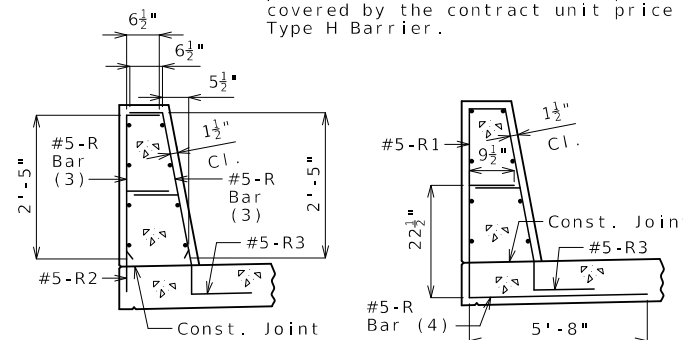


SECTION A-A

Use a minimum lap of 3'-1" for #5 horizontal barrier bars.

The cross-sectional area above the slab is 2.89 square feet.

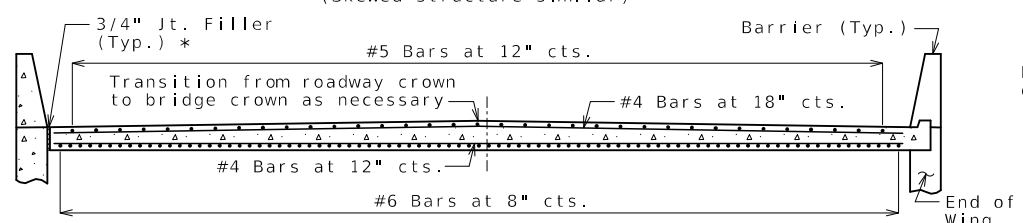
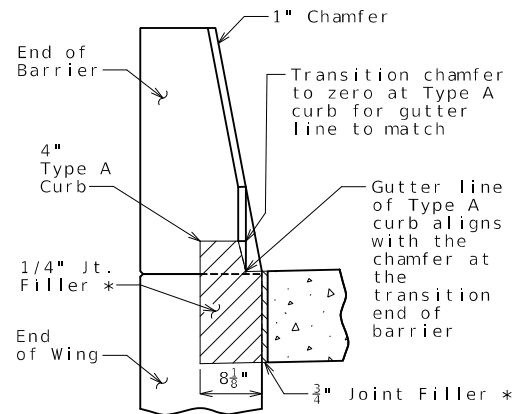
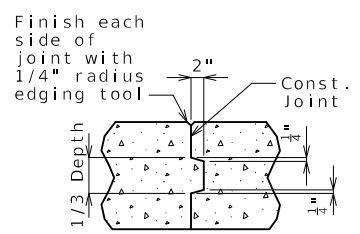
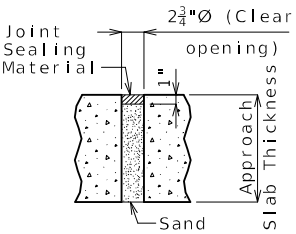
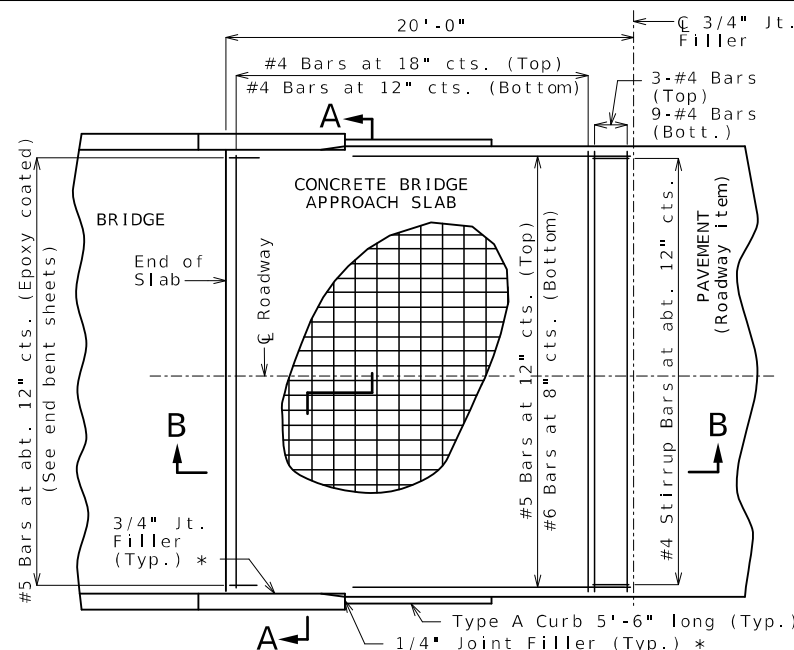
(2) To top of bar



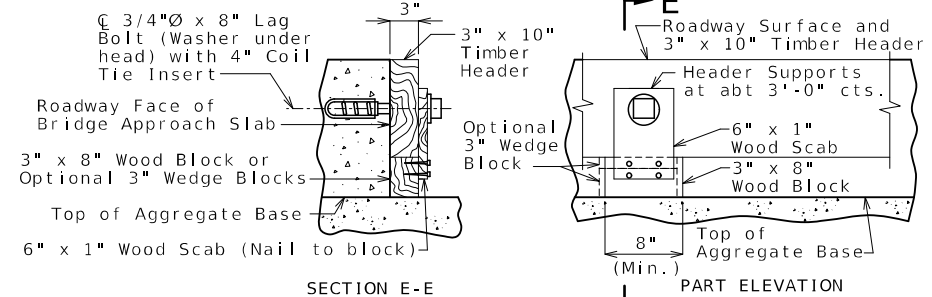
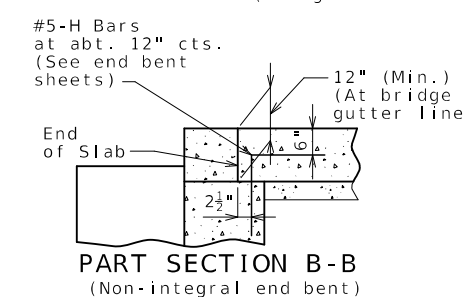
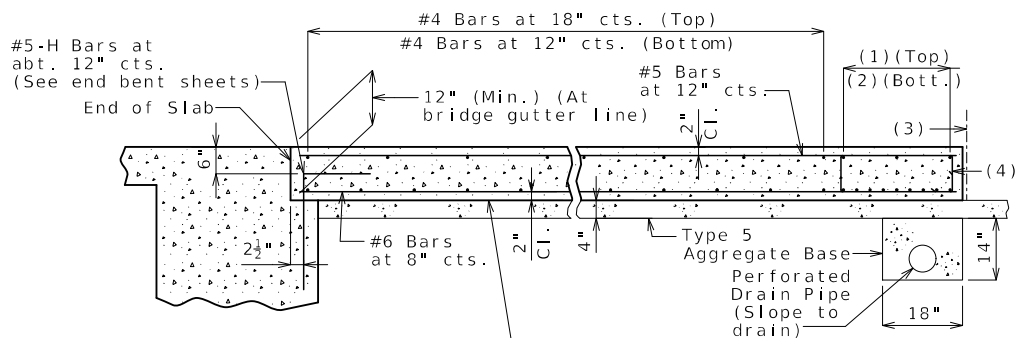
R-BAR PERMISSIBLE ALTERNATE SHAPE

(3) The R1 bar may be separated into two bars as shown, at the contractor's option, only when slip forming is not used. (All dimensions are out to out.)

(4) The R2 bar and #5 bottom transverse slab bar in cantilever (prestressed panels only) combination may be furnished as one bar as shown, at the contractor's option.



With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.



Remove timber header when concrete pavement is placed.
OPTIONAL CONCRETE SLAB

- (1) 3-#4 Bars
- (2) 9-#4 Bars
- (3) 3/4" Jt. Filler
- (4) #4 Stirrup Bars at abt. 12" cts.; 2'-0" x 8" (Min.) out to out; Actual length = 5'-10" (Min.); 90° stirrup hook at bottom; Stirrup height (8") and actual length vary due to crown.

Notes For Concrete Slab Only:
 All concrete for the bridge approach slab shall be in accordance with Sec 503 (f'c = 4,000 psi).
 The reinforcing steel in the bridge approach slab shall be epoxy coated Grade 60 with fy = 60,000 psi.

Longitudinal construction joints in bridge approach slab shall be aligned with longitudinal construction joints in bridge slab.
 Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

The reinforcing steel in the bridge approach slab shall be continuous. The transverse reinforcing steel may be made continuous by providing a minimum lap splice of 23 inches for #4 bars, or by mechanical bar splice.

Mechanical bar splices shall be in accordance with Sec 710.

All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.

Payment for furnishing all materials, labor and excavation necessary to construct the concrete bridge approach slab, including the timber header, underdrain, Type 5 aggregate base, joint filler, and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Minor) per square yard.

See Missouri Standard Plan 609.00 for details of Type A curb.

Drain pipe may be either 6" diameter corrugated metallic-coated pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.

* Seal joint between vertical face of approach slab and wing with sealant in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

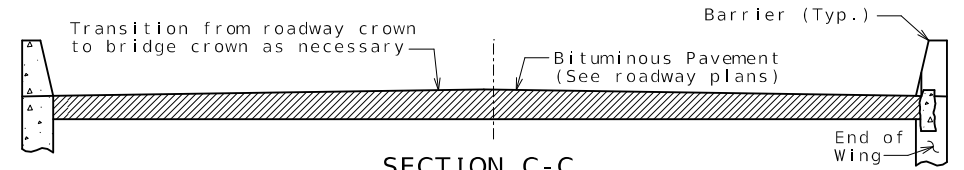
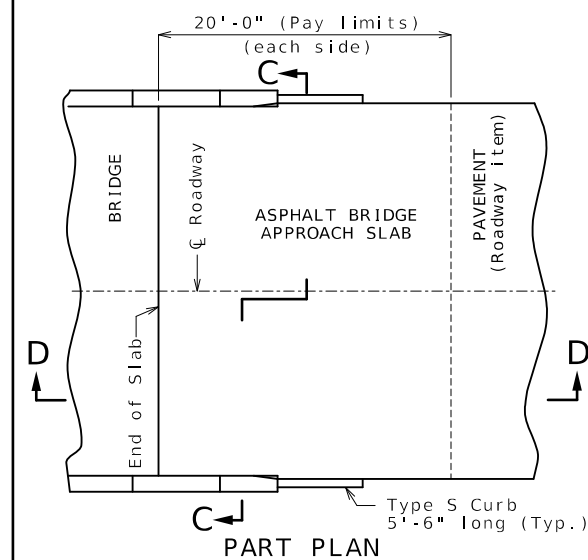
General Notes:
 Contractor shall have the option to construct either slab except as noted.
 The contractor shall pour and satisfactorily finish the bridge slab before placing the bridge approach slab.

MoDOT Construction personnel will indicate the bridge approach slab used for this structure:

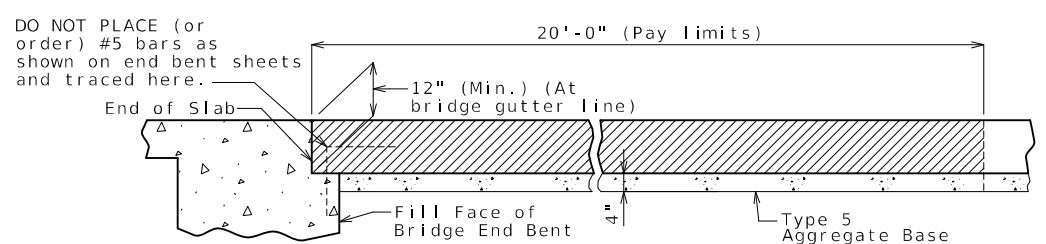
Concrete Bridge Approach Slab
 Asphalt Bridge Approach Slab

Notes For Asphalt Slab Only:
 Payment for furnishing all materials, labor and excavation necessary to construct the asphalt bridge approach slab, including tack, curb, and Type 5 aggregate base within the pay limits shown, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Minor) per square yard.

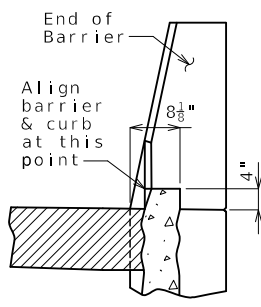
Application of tack is required between lifts per Sec 403.



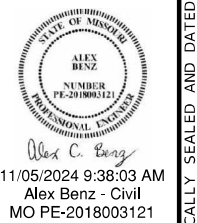
With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.



OPTIONAL ASPHALT SLAB (NOT ALLOWED WITH CONCRETE PAVEMENT)



See Missouri Standard Plan 609.00 for details of Type S curb.



DATE PREPARED: 11/5/2024
 ROUTE: I-70 STATE: MO
 DISTRICT: BR SHEET NO.: 22

COUNTY: SALINE
 JOB NO.: JST0016B
 CONTRACT ID.:

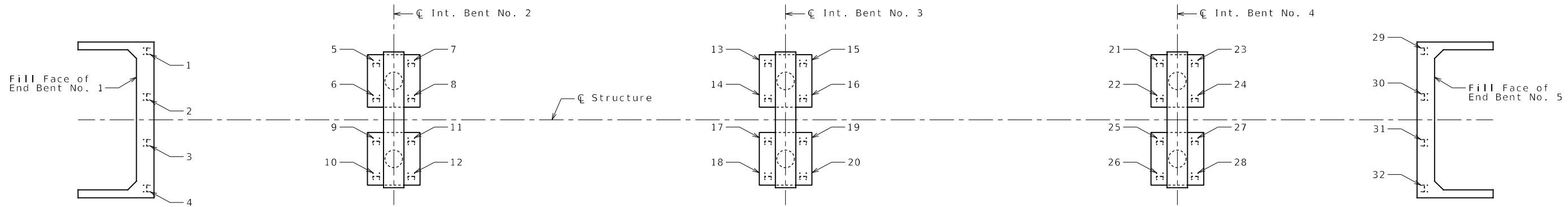
PROJECT NO.:
 BRIDGE NO.: A9614

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 MoDOT
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

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PART PLAN SHOWING PILE NUMBERING FOR RECORDING AS-BUILT PILE DATA

As-Built Pile Data			
Pile No.	Length in Place (ft)	Computed Nominal Axial Compressive Resistance (kips)	Remarks
End Bent No. 1			
1			
2			
3			
4			
Int. Bent No. 2			
5			
6			
7			
8			
9			
10			
11			
12			
Int. Bent No. 3			
13			
14			
15			
16			
17			
18			
19			
20			

As-Built Pile Data			
Pile No.	Length in Place (ft)	Computed Nominal Axial Compressive Resistance (kips)	Remarks
Int. Bent No. 4			
21			
22			
23			
24			
25			
26			
27			
28			
End Bent No. 5			
29			
30			
31			
32			

Notes:
 Indicate in remarks column:
 A. Pile type and grade
 B. Batter
 C. Driven to practical refusal

This sheet to be completed by MoDOT construction personnel.

AS-BUILT PILE DATA

Detailed: Sep. 2024
 Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 26 of 32

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 11/5/2024

ROUTE: I-70 STATE: MO

DISTRICT: BR SHEET NO.: 26

COUNTY: SALINE

JOB NO.: JST0016B

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.: A9614

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway
 Kansas City, Missouri 64114
 816-333-9400

Certificate of Authority
 No. : 000165
 BmCD Project No. 171819

Missouri Department of Transportation
Construction and Materials

BORING NO. A0132-5
Page 1 of 1

Job No.: ST0016B County: Saline Route: County Road 225
 Design: _____ Skew: _____ Location: Over Interstate 70
 Bent: 2 Logged By: EER Operator: DJT
 Station: _____ Northing: _____ Date of Work: 08/02/24-08/02/24
 Offset: _____ Easting: _____ Depth to Water: _____
 Elevation: 784.6 Requested Northing: _____ Depth Hole Open: _____
 Requested Station: _____ Requested Easting: _____ Time Change: _____
 Requested Offset: _____ Equipment: CME 55LC Split-Spoon Sampler
 Requested Elevation: _____ Location Note: Bridge A9614
 Drill No.: S/N 424035 Hammer Efficiency: 75% Drilling Method: Flight Auger

Missouri Department of Transportation
Construction and Materials

BORING NO. A0132-6
Page 1 of 1

Job No.: ST0016B County: Saline Route: County Road 225
 Design: _____ Skew: _____ Location: Over Interstate 70
 Bent: 2 Logged By: RAW Operator: DJT
 Station: _____ Northing: _____ Date of Work: 08/19/24-08/19/24
 Offset: _____ Easting: _____ Depth to Water: _____
 Elevation: 784.4 Requested Northing: _____ Depth Hole Open: _____
 Requested Station: _____ Requested Easting: _____ Time Change: _____
 Requested Offset: _____ Equipment: CME 55LC Split-Spoon Sampler
 Requested Elevation: _____ Location Note: Bridge A9614
 Drill No.: S/N 424035 Hammer Efficiency: 75% Drilling Method: Flight Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (ROD %)	Blow Counts (N ₆₀)	Shear Data	Field Tests	Index Tests
0		0.0-0.5' ROOT ZONE - 6 inches							
		0.5-3.5' CLAY - brown and gray, soft, fat - (CH)			44	1-1-2 (4)		PP = 1.25 tsf	LL = 50 PL = 17 MC = 22.5%
5		3.5-15.0' BOULDERS, COBBLES AND CLAY	780		44	10-3-8 (14)			MC = 20.5%
					56	6-10-15 (31)	PP = 3.40 tsf		MC = 15.2%
10			775		78	18-24-23 (59)			MC = 14.5%
		11.3' sampler refusal			100	50/0.3'			MC = 17.2%
15			770		100	13-42-30 (90)			
		Bottom of borehole at 15.0 feet.							

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (ROD %)	Blow Counts (N ₆₀)	Shear Data	Field Tests	Index Tests
0		0.0-0.5' ROOT ZONE - 6 inches							
		0.5-5.5' FILL - brown and gray fat clay, limestone fragments, shaley clay			39	0-0-9 (11)			MC = 33.2%
5			780		100	2-2-2 (5)			MC = 22.0%
		5.5-15.0' BOULDERS, COBBLES AND CLAY			91	9-50/0.4'			MC = 13.3%
10		6.9' sampler refusal	775		78	11-22-29 (64)			MC = 15.3%
					94	13-10-11 (26)			MC = 18.7%
15			770		89	5-39-39 (98)			MC = 16.1%
		Bottom of borehole at 15.0 feet.							

N₆₀ = (Em/60)N_m N_{60c} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; N_m - Observed N-value; (1) = Assumed, (2) = Actual

Coordinate System: _____ Coordinate Zone: _____ Coordinate Proj. Factor: _____

Coordinate Datum: NAVD88 Coordinate Units: U.S. Survey Feet

* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.

N₆₀ = (Em/60)N_m N_{60c} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; N_m - Observed N-value; (1) = Assumed, (2) = Actual

Coordinate System: _____ Coordinate Zone: _____ Coordinate Proj. Factor: _____

Coordinate Datum: NAVD88 Coordinate Units: U.S. Survey Feet

* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED: 11/5/2024
 ROUTE: I-70 STATE: MO
 DISTRICT: BR SHEET NO.: 31

COUNTY: SALINE
 JOB NO.: JST0016B
 CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.: A9614

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
 9400 Ward Parkway Kansas City, Missouri 64114
 816-333-9400
 Certificate of Authority No.: 000165
 BmCd Project No.: 171819

Detailed: Sep. 2024
 Checked: Oct. 2024

Note: This drawing is not to scale. Follow dimensions.

Note: For locations of borings, see Sheet No. 1.

Sheet No. 31 of 32

BORING DATA

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