

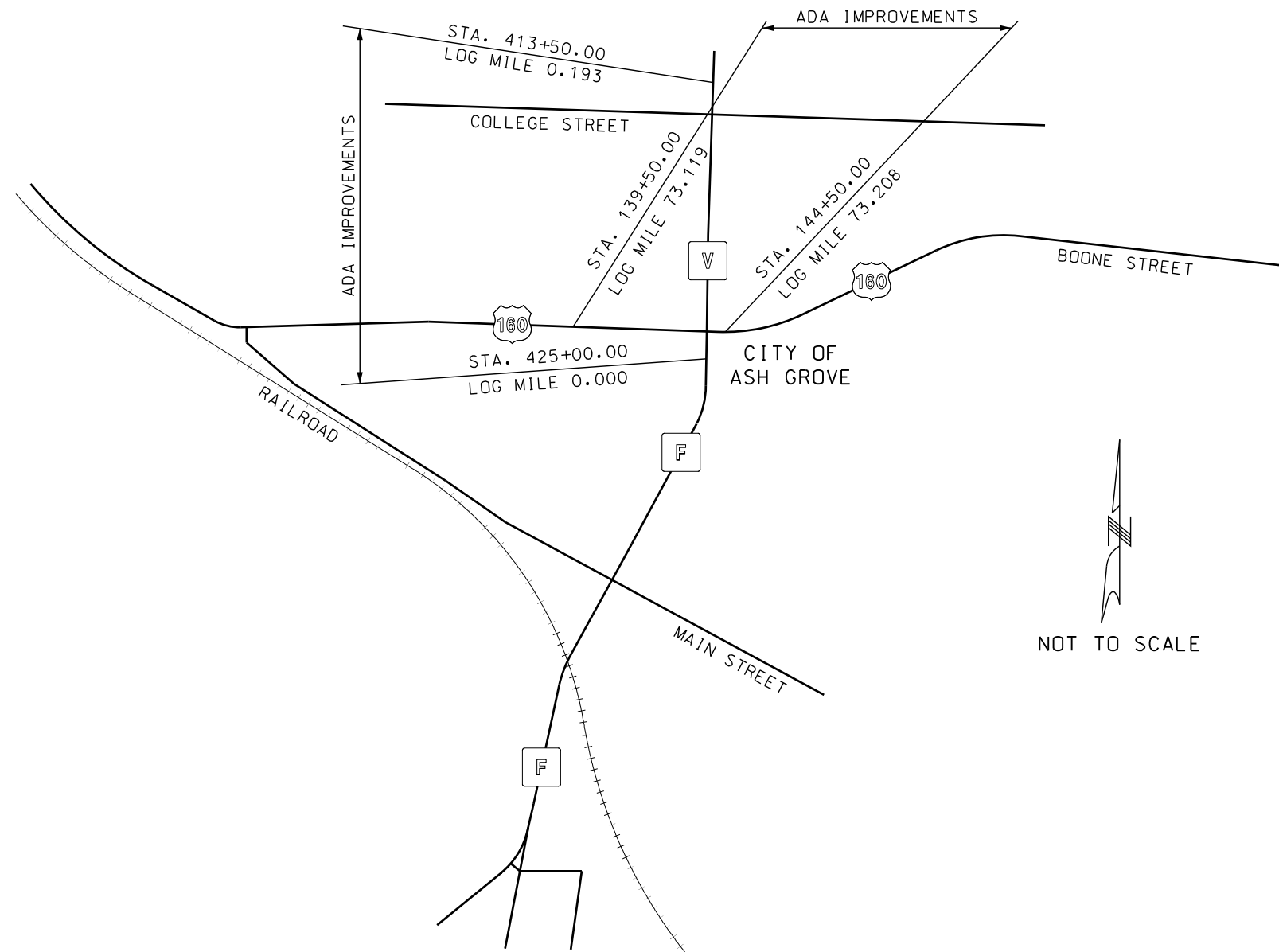
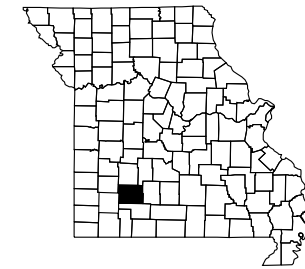
A.A.D.T. - 2021 = 1530
A.A.D.T. - 2041 = 1830
D.H.V. = 10%
T = 3%
V = 25 & 35 M.P.H.
D = 50%

FUNCTIONAL CLASSIFICATION

ROUTE V - MAJOR COLLECTOR
ROUTE 160 - MINOR ARTERIAL

CONVENTIONAL SYMBOLS (USED IN PLANS)

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
ROUTE V & ROUTE 160
GREENE COUNTY
T30N R24W SEC. 21



NOT TO SCALE

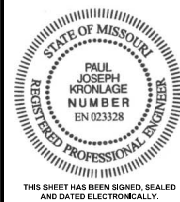
THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY 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.

DESCRIPTION	NUMBER
TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (8 SHEETS)---	2
QUANTITIES (QU) (4 SHEETS)-----	3
PLAN SHEETS (PL) -----	4-6
REFERENCE/COORDINATE POINTS (RP)---	7
SPECIAL SHEETS (SS)-----	8-11
TRAFFIC CONTROL SHEETS (TC)-----	12-16
EROSION CONTROL SHEETS (EC)-----	17
SIGNING & PAVEMENT MARKING (SN)----	18-19
CULVERT SECTIONS (CS)-----	20
CROSS SECTIONS (XS)-----	1-11

<u>ROUTE V:</u>		
BEGINNING OF PROJECT	STA.	413+50.00
END OF PROJECT	STA.	425+00.00
APPARENT LENGTH		1150.00 FEET
EQUATIONS AND EXCEPTIONS:		0.00 FEET
 <u>ROUTE 160:</u>		
BEGINNING OF PROJECT	STA.	139+50.00
END OF PROJECT	STA.	144+50.00
APPARENT LENGTH		500.00
EQUATIONS AND EXCEPTIONS:		0.00 FEET

TOTAL CORRECTIONS	0.00	FEET
NET LENGTH OF PROJECT	1650.00	FEET
STATE LENGTH	0.313	MILES

FOR INFORMATION ONLY	
ESTIMATED DISTURBED ACRES	0.4 ACRES



DATE PREPARED	
8/3/2021	
ROUTE	STATE
V/160	MO
DISTRICT	SHEET NO.
SW	1
COUNTY	
GREENE	
JOB NO.	
J7S3367D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

[illegible]

**MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION**

MoDOT

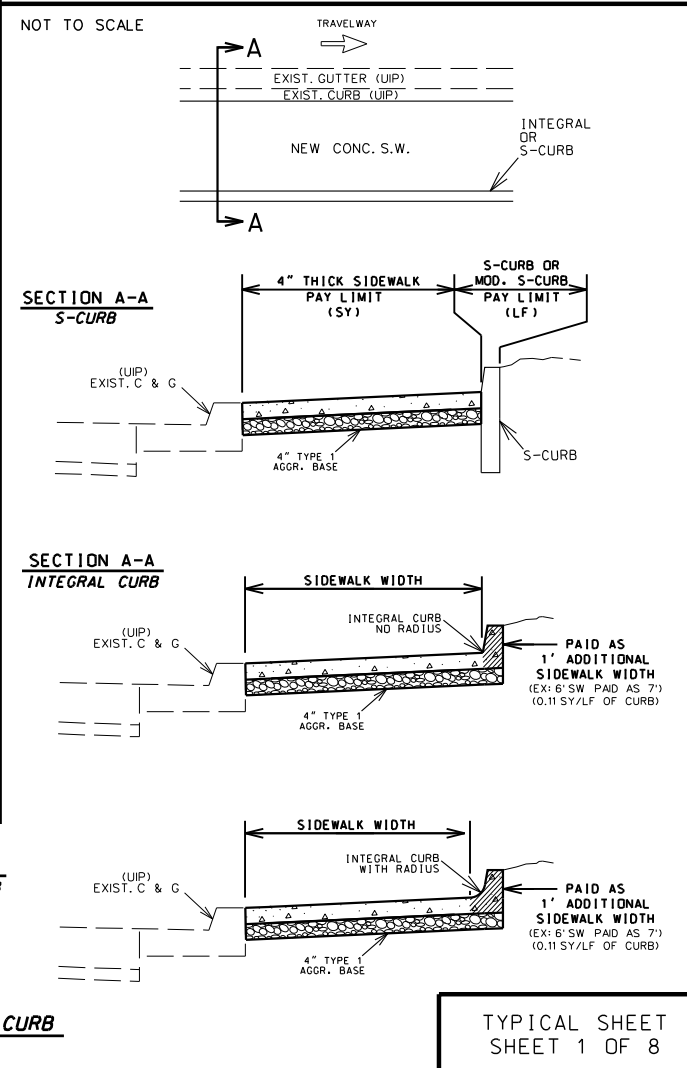
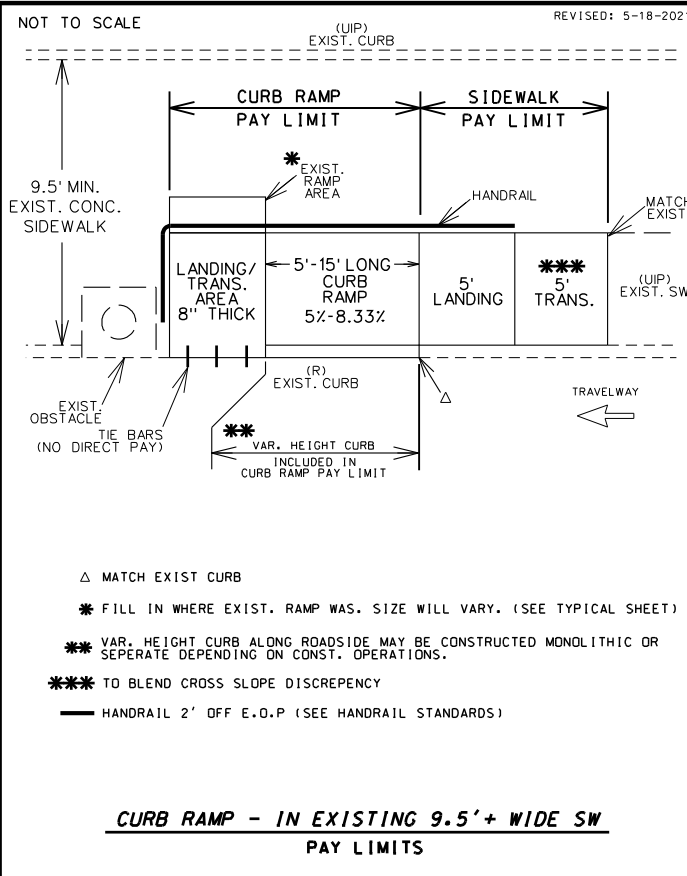
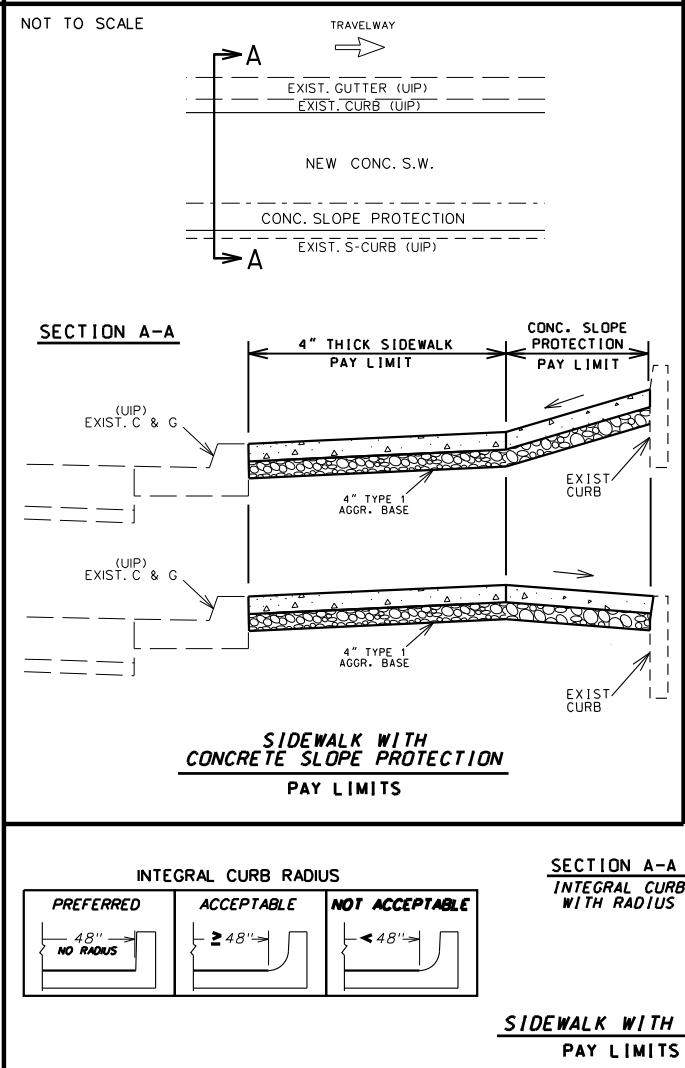
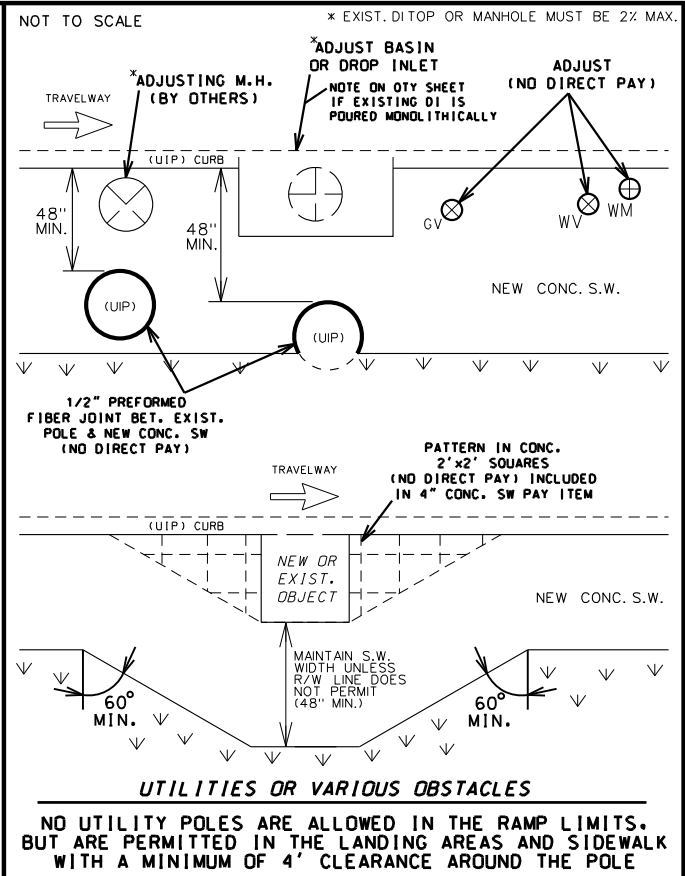
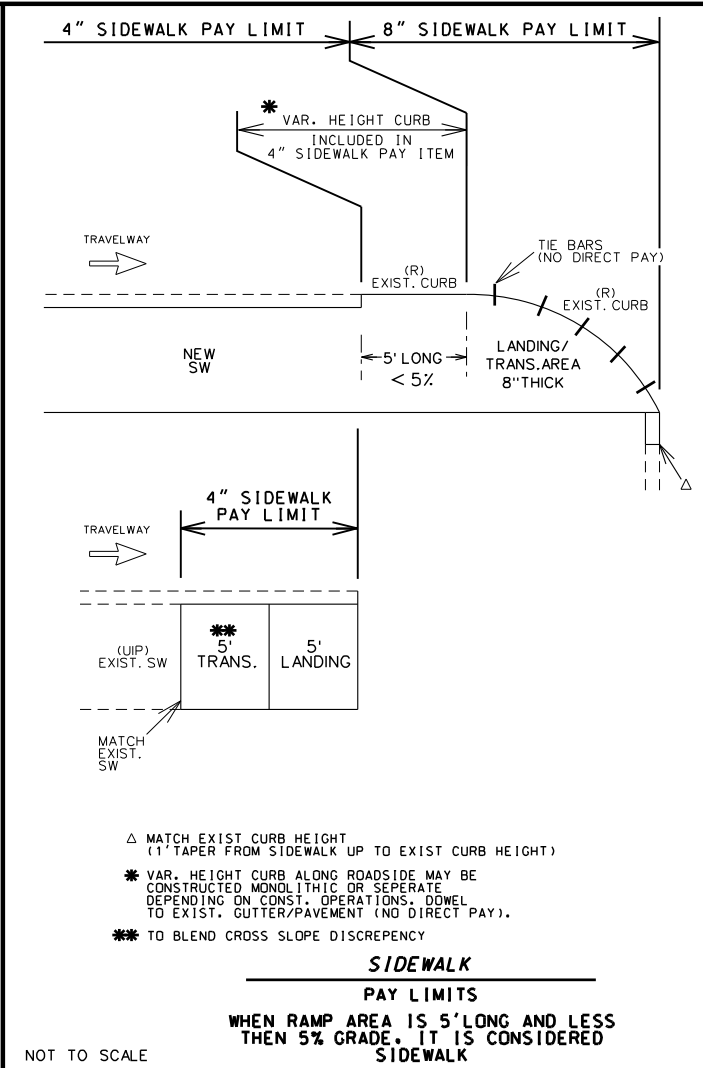
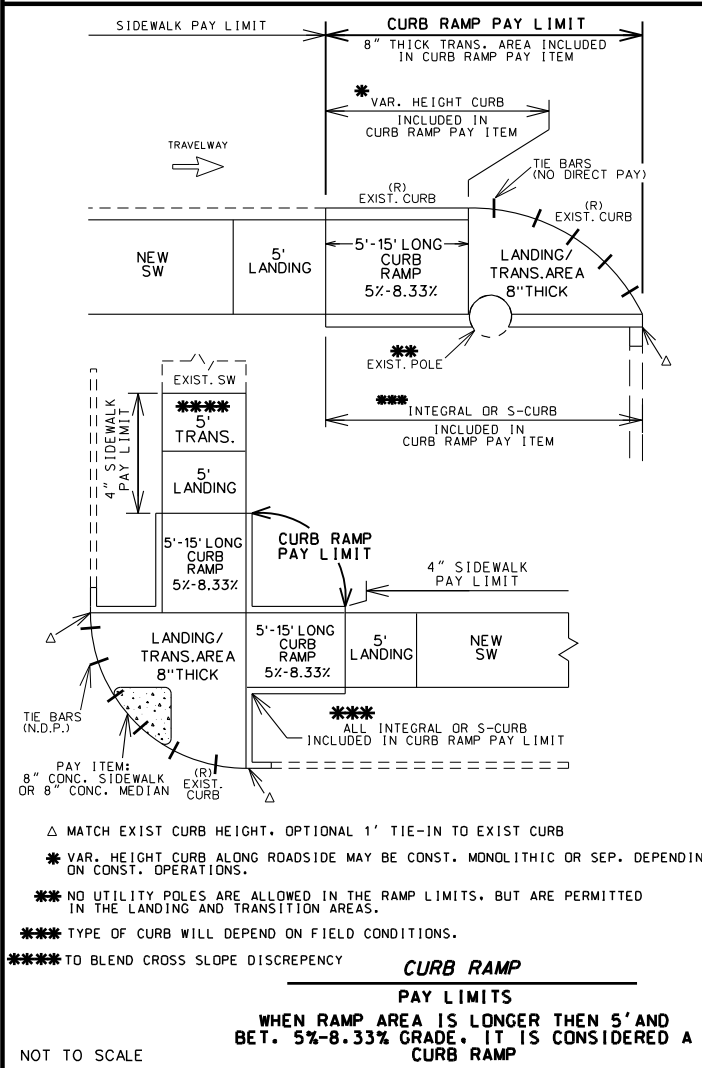
105 WEST CAPITAL
JEFFERSON CITY, MO 65102
TEL: 573-751-3000 FAX: 573-751-3001
1-888-ASK-MODOT

EEFK • Moen, LLC
Civil Engineering Design
 3523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

[illegible]

REV.

1. CONCRETE SIDEWALK, CURB RAMP AND DETECTABLE WARNING DEVICE (TRUNCATED DOMES) DETAILS SHALL CONFORM TO ADA REQUIREMENTS UNLESS NOTED OTHERWISE IN THESE PLANS. FOR SIDEWALK JOINT AND CURB DETAILS, SEE STANDARD PLAN 609.00.
2. TINTED CONCRETE SHALL NOT BE USED. TRUNCATED DOMES SHALL BE OF A COLOR CONTRASTING WITH UNTINTED CONCRETE AND APPROVED BY THE ENGINEER. TRUNCATED DOMES ARE REQ'D. AT STREET INTERSECTIONS AND COMMERCIAL ENTRANCES WITH TRAFFIC CONTROL ONLY. (STOP/YIELD SIGNS OR SIGNALS)
3. CONCRETE SHALL BE IN ACCORDANCE WITH SEC. 608 & SEC. 609. CURING COMPOUND SHALL BE TRANSPARENT.
4. ALL CONCRETE SIDEWALK AND CURB RAMP/TRANSITION/LANDING AREAS SHALL BE 4" THICK, WITH THE EXCEPTION OF THE BOTTOM TRANSITION WHICH TIES INTO THE EXISTING PAVED APPROACH AND ROADWAY. THIS TRANSITION, OR LANDING AREA, MUST BE 8" THICK IF IT FALLS WITHIN THE RADIUS OF THE APPROACH AND SITS AT THE BACK OF CURB OF THE ROADWAY. ALL CONCRETE SIDEWALK AND CURB RAMP/TRANSITION/LANDING AREAS SHALL BE ON 4" TYPE 1 AGGREGATE BASE.
5. AGGREGATE BASE DENSITY - CONTRACTOR SHALL EXERCISE GOOD COMPACTIVE EFFORT AS APPROVED BY THE ENGINEER. DENSITY REQUIREMENTS BY NUCLEAR METHOD WILL NOT BE REQUIRED DUE TO WORK AREA CONSTRAINTS.
6. CONCRETE CURB RAMP - WIDTH = 5' MIN. LENGTH = 5' MIN. TO 15' PREFERRED MAX. (16' MAX.)
RUNNING SLOPE = >5% (MIN.) TO 8.33% (MAX.) UNIFORMLY DOWN THE LENGTH OF THE RAMP.
- CONCRETE LANDING - WIDTH = TO MATCH PROPOSED CURB RAMP AND SIDEWALK WIDTH LENGTH = 5' MIN.
SLOPE IN ALL DIRECTIONS = 1% PREFERRED (2% MAX.) UNLESS TIED TO ROADWAY EXCEPTION.
7. ALL EXISTING UTILITIES SHALL BE USED IN PLACE UNLESS OTHERWISE NOTED. ALL MANHOLE OR VALVE COVER, ETC. ELEVATIONS SHALL BE ADJUSTED AS REQUIRED IF THEY ARE LOCATED WITHIN THE IMPROVEMENT AREA.
8. "PREFORMED FIBER JOINT" SHALL BE IN ACCORDANCE WITH SEC. 1057 FOR PREFORMED FIBER JOINT EXPANSION JOINT FILLER.
9. REINFORCING STEEL TIE BARS SHALL BE IN ACCORDANCE WITH SECTION 706. ALL REINFORCING STEEL SHALL BE EPOXY COATED AND USED AS APPROVED BY THE ENGINEER. WHERE TIE BARS ARE USED, THE CONCRETE SHALL BE 8" THICK (NO DIRECT PAY).
10. CONSTRUCTION AND LENGTH OF EACH CURB RAMP INCLUDING LANDINGS AND TRANSITION AREAS SHALL BE AS SHOWN ON THE PLANS UNLESS DIFFERING FIELD CONDITIONS ARE FOUND OR AS APPROVED BY THE ENGINEER. CURB RAMP CROSS SLOPES SHALL BE 1% PREFERRED (2% MAX.) TOWARD THE STREET. CURB RAMPS ARE TO BE FORMED UP AND HAVE A TRUE AND STRAIGHT LINE.
11. SIDEWALK AND CONCRETE CURB SHALL BE POURED MONOLITHICALLY. THE CONTRACTOR SHALL MATCH EXISTING GROUND SLOPES ADJACENT TO THE CURB RAMPS OR USE AN ALTERNATE METHOD APPROVED BY THE ENGINEER.
12. S-CURB 12"-30" HIGH (MODIFIED S-CURB) WILL REQUIRE #4 REINFORC. BARS ON MAX. 12" CENTERS - SEE DETAIL (NO DIRECT PAY)
13. SODDED SLOPES AT EDGES OF SIDEWALK OR S-CURB SHOULD BE GRADED TO BE 6:1 MIN.



STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
REGISTERED PROFESSIONAL ENGINEER
EN 023328

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 8/2/2021

ROUTE: V/160 STATE: MO

DISTRICT: SW SHEET NO.: 2

COUNTY: GREENE

JOB NO.: J7S3367D

CONTRACT ID: .

PROJECT NO: .

BRIDGE NO: .

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

EFK Moen, LLC
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

PERPENDICULAR - TYPE 1												
TYPE 1-A												
LENGTH (LF)	8			12			16			REMARKS		
	4	5	6	4	5	6	4	5	6			
TRUNCATED DOMES	SF	-	10.0	12.0	-	10.0	12.0	-	10.0	12.0		
CURB RAMP	SY	-	8.2	12.8	-	10.8	12.7	-	13.5	15.8		
CONC. SIDEWALK	SY	-	5.6	6.4	-	5.6	6.4	-	4.9	6.4		
TYPE 1 AGGREGATE	SY	-	13.8	16.0	-	16.4	19.1	-	18.3	22.2		
ADA LINEAR GRADING	LF	-	22.0	22.0	-	27.5	27.5	-	30.0	30.5		
SODDING	SY	-	5.8	5.7	-	6.8	6.9	-	7.5	7.9		

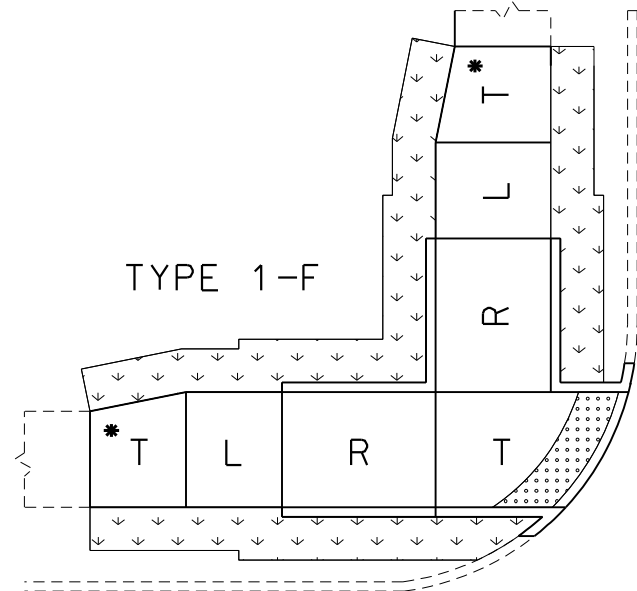
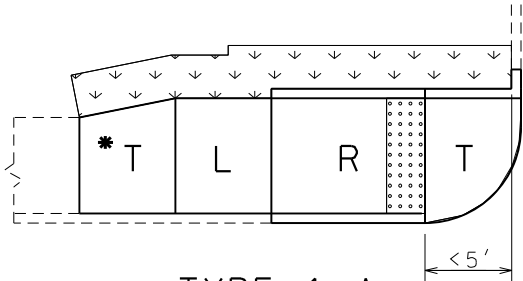
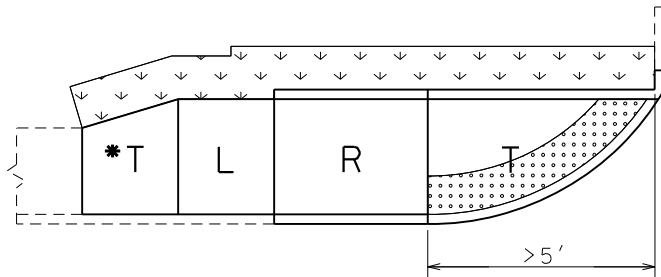
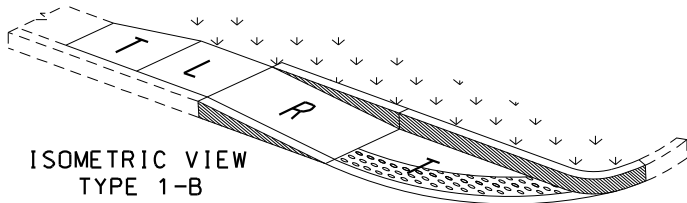
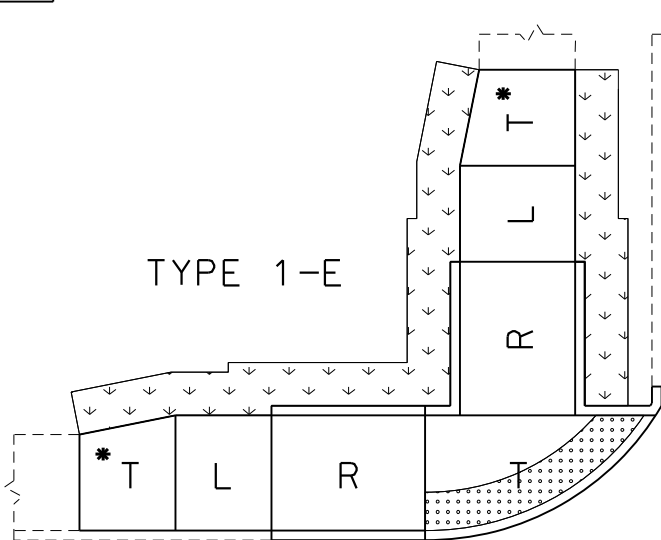
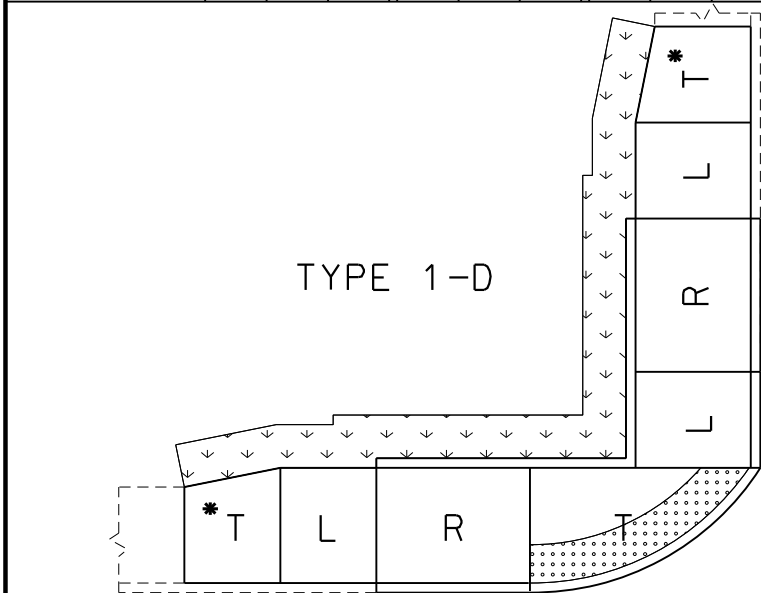
TYPE 1-B												
LENGTH (LF)	8			12			16			REMARKS		
	4	5	6	4	5	6	4	5	6			
TRUNCATED DOMES	SF	-	22.0	24.0	-	22.0	24.0	-	22.0	24.0		
CURB RAMP	SY	-	10.9	13.1	-	13.6	16.3	-	16.2	19.3		
CONC. SIDEWALK	SY	-	5.6	6.3	-	5.6	6.4	-	4.9	5.7		
TYPE 1 AGGREGATE	SY	-	16.5	19.4	-	19.2	22.7	-	21.1	25.0		
ADA LINEAR GRADING	LF	-	28.0	28.0	-	34.5	34.5	-	38.0	38.0		
SODDING	SY	-	7.4	7.8	-	8.4	8.7	-	9.1	9.5		

TYPE 1-C												
LENGTH (LF)	8			12			16			REMARKS		
	4	5	6	4	5	6	4	5	6			
TRUNCATED DOMES	SF	-	10.0	12.0	-	10.0	12.0	-	10.0	12.0		
CURB RAMP	SY	-	8.8	10.3	-	11.5	13.4	-	14.1	16.5		
CONC. SIDEWALK	SY	-	5.6	6.4	-	5.6	6.4	-	4.9	5.7		
TYPE 1 AGGREGATE	SY	-	14.4	16.7	-	17.1	19.8	-	19.0	22.1		
ADA LINEAR GRADING	LF	-	22.0	22.0	-	26.5	26.5	-	30.0	30.0		
SODDING	SY	-	11.5	11.7	-	13.5	13.5	-	15.0	15.2		

TYPE 1-D												
LENGTH (LF)	8			12			16			REMARKS		
	4	5	6	4	5	6	4	5	6			
TRUNCATED DOMES	SF	-	18.0	24.0	-	18.0	24.0	-	18.0	24.0		
CURB RAMP	SY	-	18.6	22.8	-	24.0	29.0	-	29.3	35.3		
CONC. SIDEWALK	SY	-	11.2	12.8	-	11.2	12.8	-	9.8	11.4		
TYPE 1 AGGREGATE	SY	-	29.8	35.6	-	35.2	41.8	-	39.1	46.7		
ADA LINEAR GRADING	LF	-	42.0	50.0	-	57.0	61.0	-	67.0	72.0		
SODDING	SY	-	11.0	11.3	-	13.0	13.3	-	14.5	14.9		

TYPE 1-E												
LENGTH (LF)	8			12			16			REMARKS		
	4	5	6	4	5	6	4	5	6			
TRUNCATED DOMES	SF	-	18.0	24.0	-	18.0	24.0	-	18.0	24.0		
CURB RAMP	SY	-	14.8	19.0	-	20.1	25.2	-	25.5	31.4		
CONC. SIDEWALK	SY	-	11.2	12.8	-	11.2	12.8	-	9.8	11.4		
TYPE 1 AGGREGATE	SY	-	26.0	31.8	-	31.3	38.0	-	35.3	42.8		
ADA LINEAR GRADING	LF	-	43.0	46.0	-	52.0	55.0	-	59.0	62.0		
SODDING	SY	-	13.3	13.6	-	16.0	16.9	-	18.6	19.3		

TYPE 1-F												
LENGTH (LF)	8			12			16			REMARKS		
	4	5	6	4	5	6	4	5	6			
TRUNCATED DOMES	SF	-	14.0	16.0	-	14.0	16.0	-	14.0	16.0		
CURB RAMP	SY	-	15.5	19.0	-	20.8	25.2	-	26.2	31.4		
CONC. SIDEWALK	SY	-	11.2	12.8	-	11.2	12.8	-	9.8	11.4		
TYPE 1 AGGREGATE	SY	-	26.7	31.8	-	32.0	38.0	-	36.0	42.8		
ADA LINEAR GRADING	LF	-	43.0	46.0	-	52.0	55.0	-	59.0	62.0		
SODDING	SY	-	18.4	18.8	-	22.4	22.8	-	25.6	25.9		



T - IS TO BE 8" THICK
AT ALL PAVED APPROACHES
AND STREETS. PAID FOR AS
CONCRETE CURB RAMP

T - TRANSITION TO EXISTING SW
OR PAVED APPROACH (LANDING
PREFERRED AT PAVED APPROACH
IF CONDITIONS ALLOW)
* - T IS STILL NEEDED EVEN IF THE
EXISTING SIDEWALK IS THE SAME
WIDTH AS THE NEW SIDEWALK. (IT
WILL BLEND THE EXIST XSLOPE
INTO THE NEW LANDING XSLOPE)

L - LANDING

R - RAMP

 - CURB RAMP PAY LIMITS

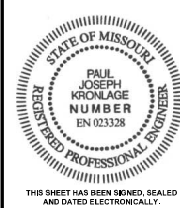
 - SOD SLOPE 6:1 MIN.

 - TRUNCATED DOME LOCATION,
IF DIST. IS < 5' OR > 5'

TRUNCATED DOMES ARE USED ONLY
AT STREETS & ENTRANCES UTILIZING
YIELD / STOP SIGNS OR SIGNALS

NOTE:
QUANTITIES ARE CALCULATED BY AREA AND
MAY NOT MATCH EXACT FIELD CONDITIONS.

REVISED: 07-16-2019



DATE PREPARED
8/2/2021

ROUTE V/160 STATE MO

DISTRICT SW SHEET NO. 2

COUNTY GREENE

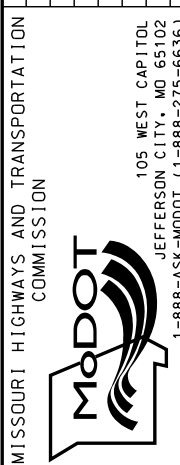
JOB NO. J7S3367D

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE



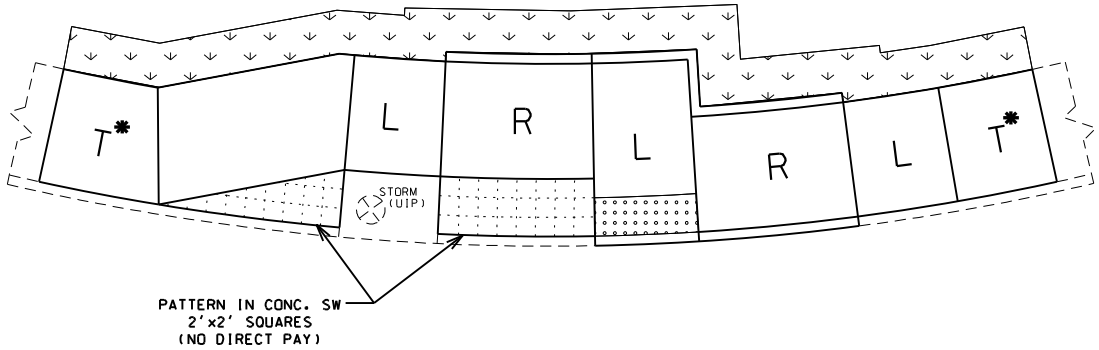
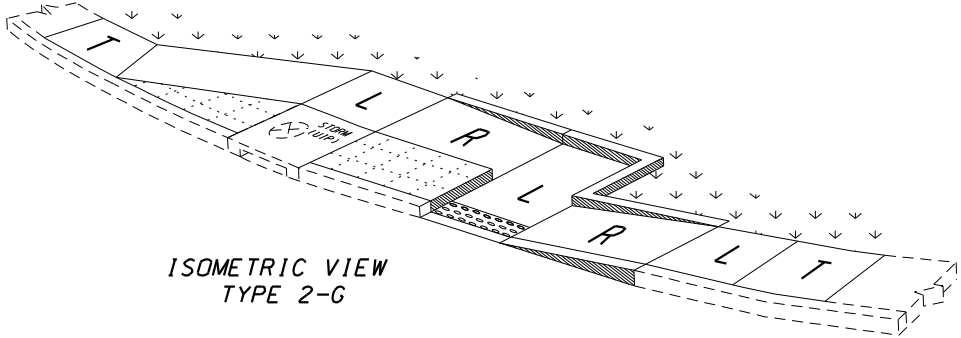
EFK Moen, LLC
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250 St. Louis, MO 63021
Phone 314-394-3100 Fax 314-394-3199
Missouri Certificate of Authority: 001578

TYPE 1
PERPENDICULAR
CURB RAMPS

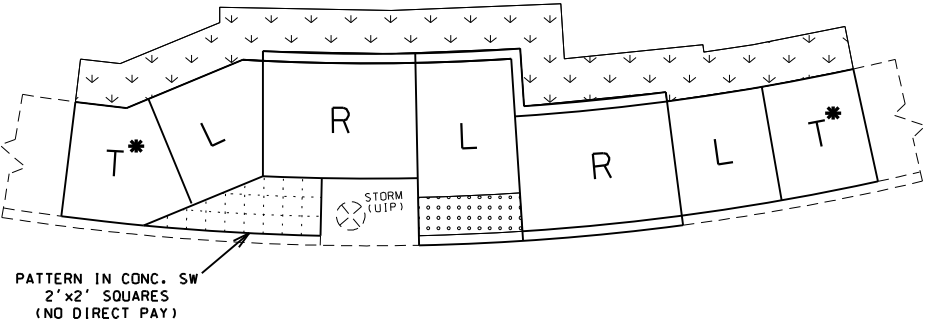
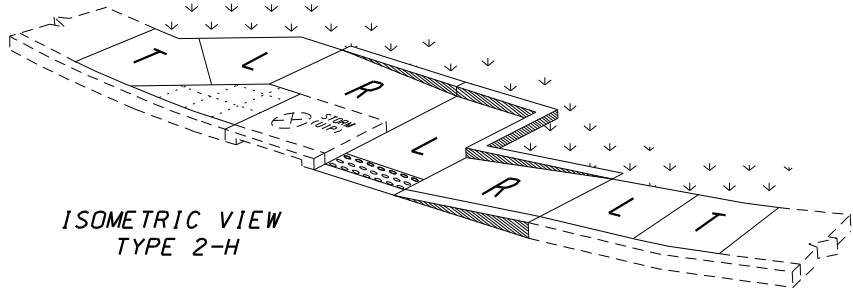
TYPICAL SHEET
2 OF 8

PARRALLEL - TYPE 2 (cont'd.)												
TYPE 2-G												
LENGTH (LF)	WIDTH (LF)	8			12			16			REMARKS	
		4	5	6	4	5	6	4	5	6		
TRUNCATED DOMES	SF	-	12.0	12.0	-	10.0	10.0	-	10.0	10.0		
CURB RAMP	SY	-	15.7	18.0	-	20.8	23.7	-	25.8	30.2		
CONC. SIDEWALK	SY	-	21.4	25.0	-	17.6	20.3	-	15.2	17.5		
TYPE 1 AGGREGATE	SY	-	37.1	43.0	-	38.4	44.0	-	41.0	47.7		
ADA LINEAR GRADING	LF	-	52.0	52.0	-	54.0	54.0	-	58.0	58.0		
SODDING	SY	-	13.6	13.6	-	13.7	13.5	-	14.5	14.9		

TYPE 2-H												
LENGTH (LF)	WIDTH (LF)	8			12			16			REMARKS	
		4	5	6	4	5	6	4	5	6		
TRUNCATED DOMES	SF	-	12.0	12.0	-	10.0	10.0	-	10.0	10.0		
CURB RAMP	SY	-	15.7	18.0	-	21.0	24.5	-	26.9	31.4		
CONC. SIDEWALK	SY	-	13.2	16.0	-	12.0	14.2	-	12.0	14.4		
TYPE 1 AGGREGATE	SY	-	28.9	34.0	-	33.0	38.6	-	38.9	45.8		
ADA LINEAR GRADING	LF	-	42.0	42.0	-	49.0	49.0	-	55.0	55.0		
SODDING	SY	-	11.1	11.2	-	12.5	12.5	-	14.5	14.9		



TYPE 2-G



TYPE 2-H

T* - IS STILL NEEDED EVEN IF THE EXISTING SIDEWALK IS THE SAME WIDTH AS THE NEW SIDEWALK. (IT WILL BLEND THE EXIST XSLOPE INTO THE NEW LANDING XSLOPE)

T - TRANSITION TO EXISTING SW

L - LANDING

R - RAMP

↓ ↓ - SOD SLOPE 6:1 MIN.

..... - TRUNCATED DOME LOCATION, IF DIST. IS <5' OR >5'

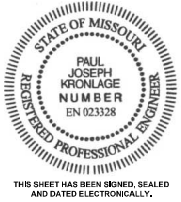
TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING YIELD / STOP SIGNS OR SIGNALS

▨ - CURB RAMP PAY LIMITS

..... - INCLUDED IN 4" CONC. SIDEWALK PAY LIMIT

NOTE: QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.

REVISED: 02-22-2017



DATE PREPARED 8/2/2021	
ROUTE V/160	STATE MO
DISTRICT SW	SHEET NO. 2
COUNTY GREENE	
JOB NO. J7S3367D	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

EFK Moen, LLC

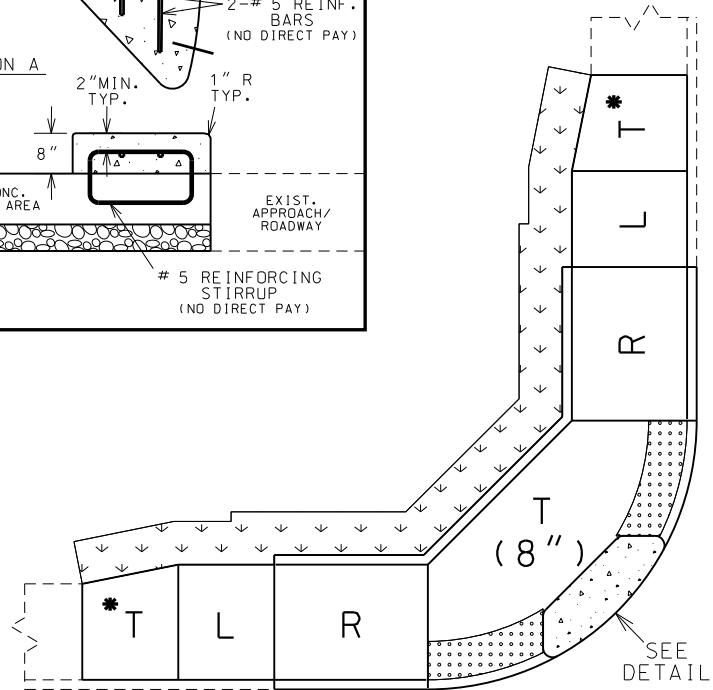
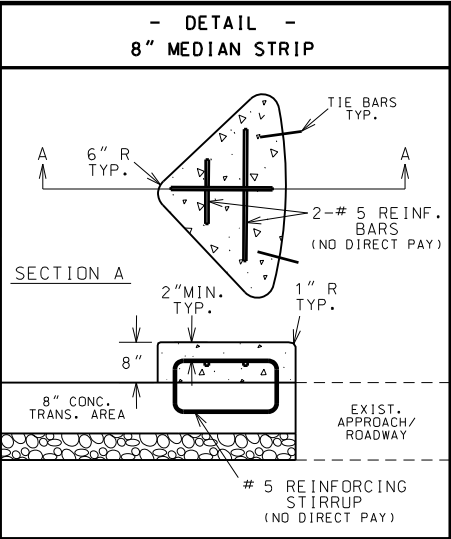
Civil Engineering Design

13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021

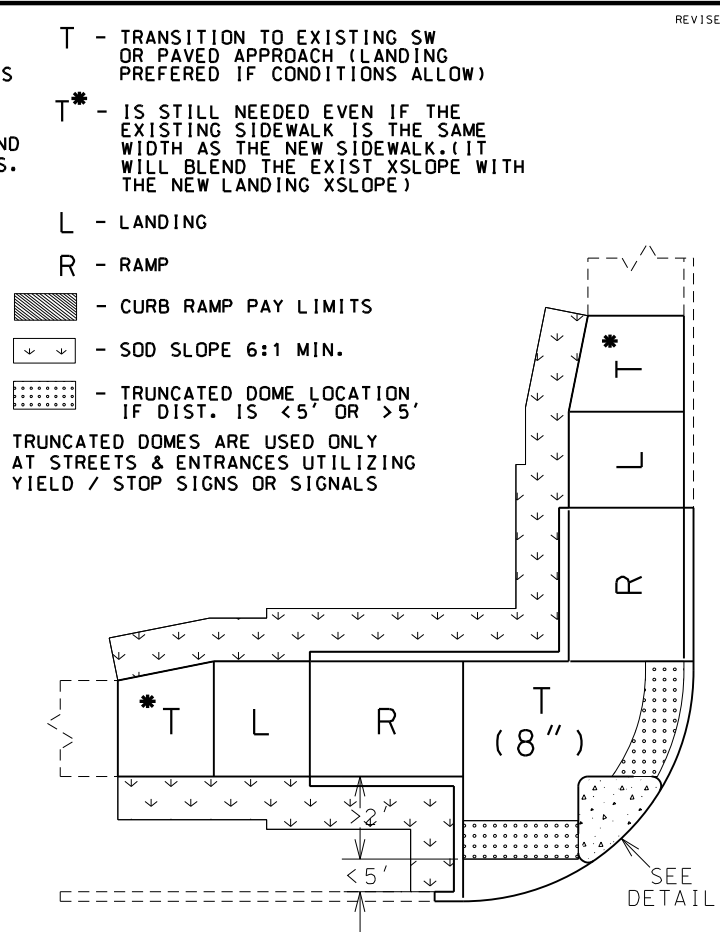
Phone 314-394-3100
Fax 314-394-3199

Missouri Certificate of Authority: 001578

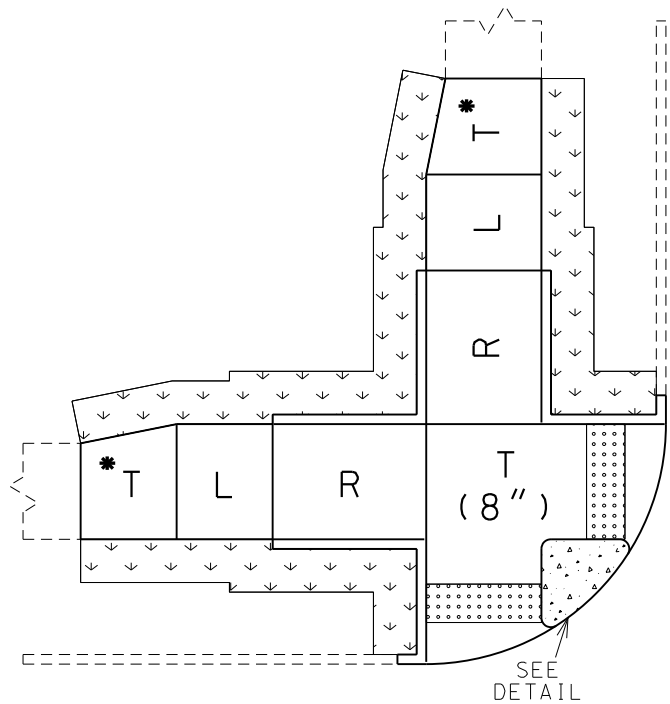
DIAGONAL - TYPE 3												
TYPE 3-A												
LENGTH (LF)	8			12			16			REMARKS		
	4	5	6	4	5	6	4	5	6			
TRUNCATED DOMES	SF	-	24.0	28.0	-	20.6	25.0	-	20.6	25.0		
CURB RAMP	SY	-	24.4	27.0	-	26.9	31.2	-	32.2	37.4		
CONC. SIDEWALK	SY	-	11.2	12.8	-	9.8	11.4	-	9.8	11.4		
TYPE 1 AGGREGATE	SY	-	35.6	39.8	-	36.7	42.6	-	42.0	48.8		
ADA LINEAR GRADING	LF	-	51.0	51.0	-	59.0	59.0	-	67.0	67.0		
SODDING	SY	-	11.6	11.4	-	12.9	12.9	-	14.9	14.9		
8" MED STRIP	SY	-	3.0	2.2	-	3.0	2.2	-	3.0	2.2		
TYPE 3-B												
LENGTH (LF)	8			12			16			REMARKS		
	4	5	6	4	5	6	4	5	6			
TRUNCATED DOMES	SF	-	24.0	28.0	-	20.6	25.0	-	20.6	25.0		
CURB RAMP	SY	-	22.0	26.3	-	25.9	31.2	-	31.2	37.4		
CONC. SIDEWALK	SY	-	11.2	12.8	-	9.8	11.4	-	9.8	11.4		
TYPE 1 AGGREGATE	SY	-	33.2	39.1	-	35.7	42.6	-	41.0	48.8		
ADA LINEAR GRADING	LF	-	51.0	51.0	-	59.0	59.0	-	67.0	67.0		
SODDING	SY	-	15.2	15.3	-	17.1	17.5	-	20.1	20.5		
8" MED STRIP	SY	-	1.5	1.5	-	1.5	1.5	-	1.5	1.5		
TYPE 3-C												
LENGTH (LF)	8			12			16			REMARKS		
	4	5	6	4	5	6	4	5	6			
TRUNCATED DOMES	SF	-	20.0	24.0	-	20.0	24.0	-	20.0	24.0		
CURB RAMP	SY	-	20.7	26.8	-	25.1	31.5	-	30.4	37.7		
CONC. SIDEWALK	SY	-	11.2	12.8	-	9.8	11.4	-	9.8	11.4		
TYPE 1 AGGREGATE	SY	-	31.9	39.6	-	34.9	42.9	-	40.2	49.1		
ADA LINEAR GRADING	LF	-	51.0	51.0	-	58.0	58.0	-	67.0	67.0		
SODDING	SY	-	18.8	19.3	-	21.3	22.1	-	25.3	26.1		
8" MED STRIP	SY	-	1.0	1.6	-	1.0	1.6	-	1.0	1.6		
TYPE 3-D												
LENGTH (LF)	8			12			16			REMARKS		
	4	5	6	4	5	6	4	5	6			
TRUNCATED DOMES	SF	-	24.0	28.0	-	22.4	26.5	-	22.4	26.5		
CURB RAMP	SY	-	15.9	19.1	-	17.7	21.4	-	20.4	24.5		
CONC. SIDEWALK	SY	-	5.6	6.4	-	4.9	5.7	-	4.9	5.7		
TYPE 1 AGGREGATE	SY	-	21.5	25.5	-	22.6	27.1	-	25.3	30.2		
ADA LINEAR GRADING	LF	-	31.0	31.0	-	34.0	34.0	-	38.0	38.0		
SODDING	SY	-	12.6	12.9	-	13.5	14.0	-	15.5	16.0		
8" MED STRIP	SY	-	1.0	0.8	-	1.0	0.8	-	1.0	0.8		
TYPE 3-E												
LENGTH (LF)	8			12			16			REMARKS		
	4	5	6	4	5	6	4	5	6			
TRUNCATED DOMES	SF	-	20.0	24.0	-	20.0	24.0	-	20.0	24.0		
CURB RAMP	SY	-	17.2	19.8	-	17.7	21.4	-	20.4	24.5		
CONC. SIDEWALK	SY	-	8.4	10.7	-	7.3	9.4	-	7.3	9.4		
TYPE 1 AGGREGATE	SY	-	25.6	30.5	-	25.0	30.8	-	27.7	33.9		
ADA LINEAR GRADING	LF	-	30.0	30.0	-	35.5	35.5	-	39.5	39.5		
SODDING	SY	-	12.4	12.4	-	12.9	13.3	-	14.9	15.3		
8" MED STRIP	SY	-	1.6	1.6	-	1.6	1.6	-	1.6	1.6		



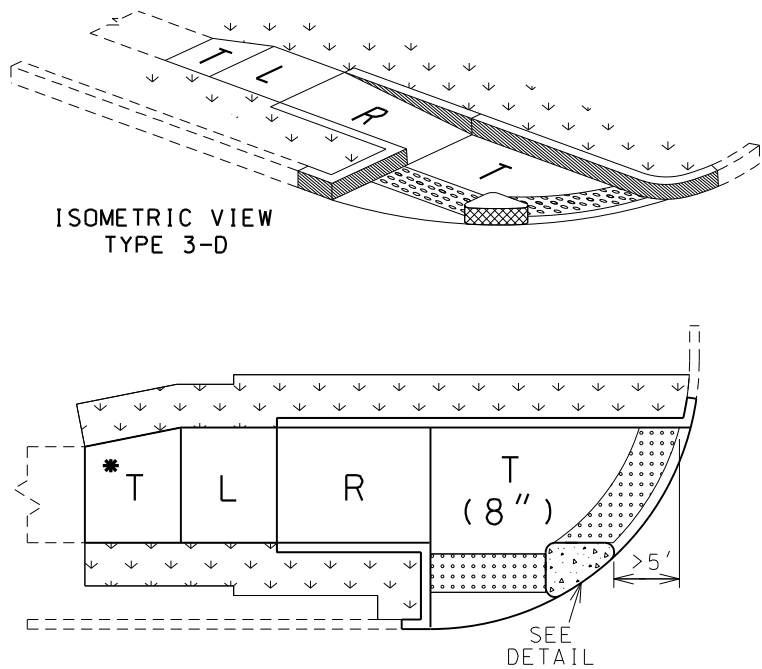
TYPE 3-A



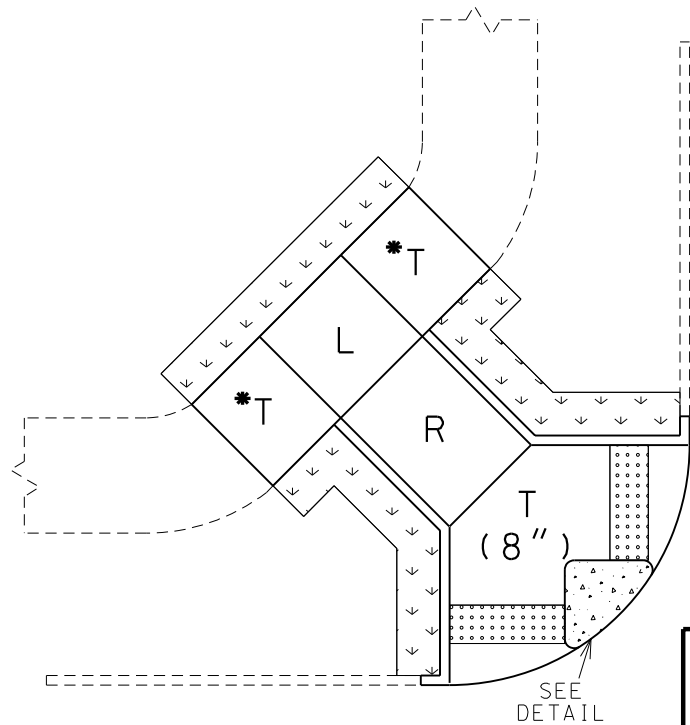
TYPE 3-B



TYPE 3-C



TYPE 3-D



TYPE 3-E

TYPE 3
DIAGONAL
CURB RAMPS

TYPICAL SHEET
5 OF 8

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
REGISTERED PROFESSIONAL ENGINEER
NO. 023328
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/2/2021

ROUTE
V/160

STATE
MO

DISTRICT
SW

SHEET NO.
2

COUNTY
GREENE

JOB NO.
J7S3367D

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

EFK Moen, LLC
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

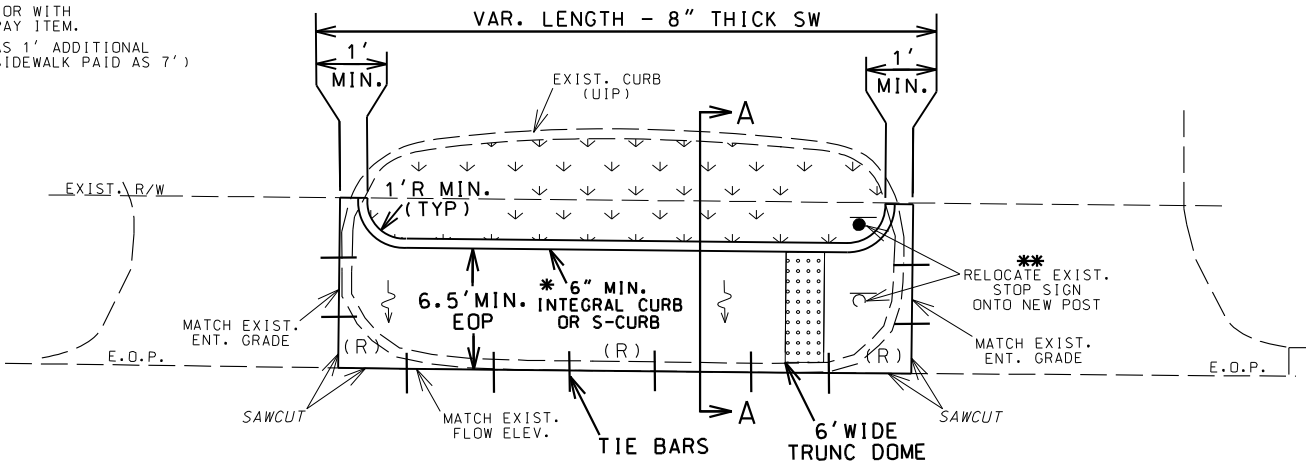
NOTES FOR MODIFIED SIDEWALK:

1. REMOVE EXIST. CURB & RAISED ISLAND WITHIN LIMITS SHOWN.
2. AREA INSIDE FINAL CURB TO BE REPAIRED OR REPLACED WITH EXISTING SURFACE MATERIAL. GRADE TO DRAIN.
3. CONSTRUCT 8" THICK CONC. SIDEWALK FLUSH WITH EXIST. CONC. PAVED APPROACH.
4. CONSTRUCT CURB ADJACENT TO MODIFIED SIDEWALK.
5. MODIFIED SIDEWALK PAID FOR AS 8" SIDEWALK.
6. 6' MINIMUM WIDTH.
7. NO DIRECT PAY FOR SAW CUTS AND TIE BARS (ON 12" CENTERS MAX.)
8. TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING STOP SIGNS OR SIGNALS.
9. X-SLOPE 1% PREFERRED (2% MAX.)
10. USE S-CURB IF CONSTRUCTING CURB ON R/W LINE.

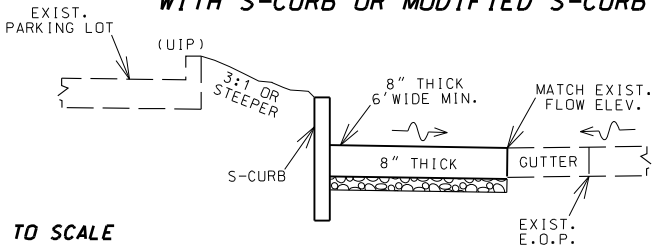
* INTEGRAL CURB IS PAID FOR WITH THE 8" CONC. SIDEWALK PAY ITEM.
INTEGRAL CURB IS PAID AS 1' ADDITIONAL SIDEWALK WIDTH (EX. 6'SIDEWALK PAID AS 7') (0.11 SY/LF OF CURB)

TYPICAL
MODIFIED SIDEWALK
8" THICK

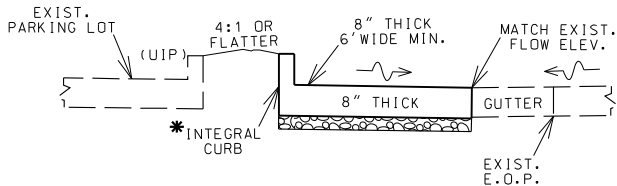
** TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING STOP/YIELD SIGNS OR SIGNALS.



SECTION A-A
WITH S-CURB OR MODIFIED S-CURB



SECTION A-A
WITH INTEGRAL CURB



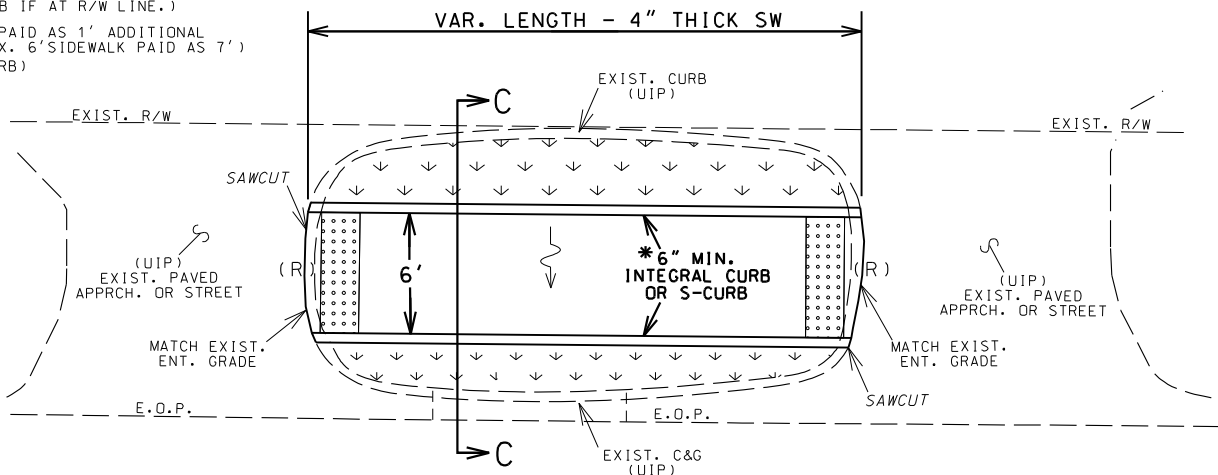
NOT TO SCALE

NOTES FOR CUT-THRU SIDEWALK:

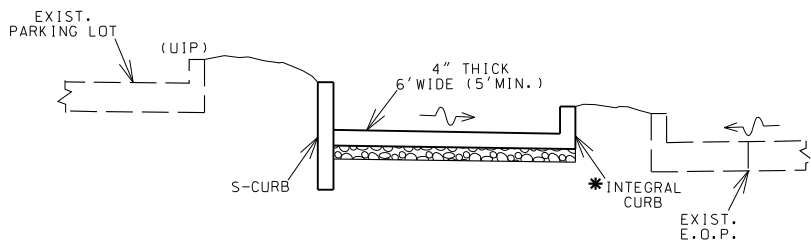
1. REMOVE EXIST. CURB & RAISED ISLAND WITHIN LIMITS SHOWN.
2. AREA INSIDE FINAL CURB TO BE REPAIRED OR REPLACED WITH EXISTING SURFACE MATERIAL. GRADE TO DRAIN.
3. CONSTRUCT 4" THICK CONC. SIDEWALK FLUSH WITH EXIST. CONC. PAVED APPROACH.
4. CONSTRUCT CURB ON BOTH SIDES ADJACENT TO SIDEWALK.
5. CUT-THRU SIDEWALK PAID FOR AS 4" SIDEWALK.
6. 6' PREFERRED WIDTH (5' MIN.)
7. SAW CUTS (NO DIRECT PAY).
8. TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING STOP SIGNS OR SIGNALS.
9. X-SLOPE 1% PREFERRED (2% MAX.)
10. USE S-CURB IF CONSTRUCTING CURB ON R/W LINE.

* INTEGRAL CURB IS PAID FOR AS 4" CONC. SIDEWALK PAY ITEM. S-CURB IS PAID FOR AS ITS OWN PAY ITEM.
(ALWAYS USE S-CURB IF AT R/W LINE.)
INTEGRAL CURB IS PAID AS 1' ADDITIONAL SIDEWALK WIDTH (EX. 6'SIDEWALK PAID AS 7') (0.11 SY/LF OF CURB)

TYPICAL
CUT-THRU SIDEWALK

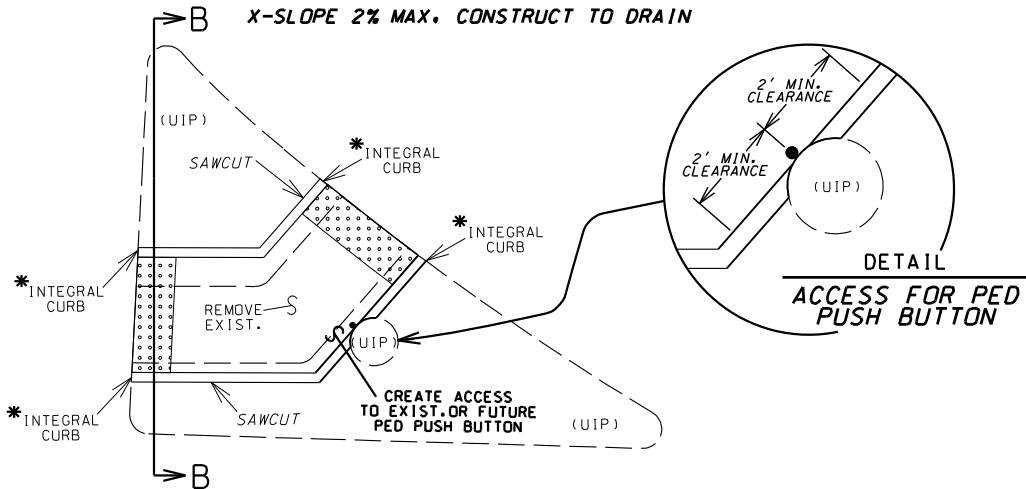


SECTION C-C
WITH S-CURB OR INTEGRAL

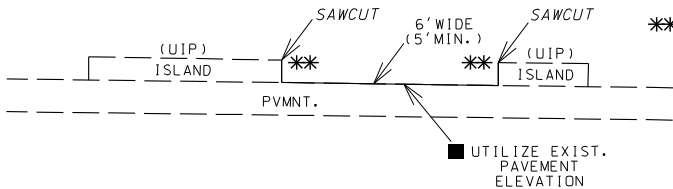


NOT TO SCALE

TYPICAL
ISLAND CUT-THRU SIDEWALK
X-SLOPE 2% MAX. CONSTRUCT TO DRAIN



SECTION B-B
ISLAND CUT-THRU SIDEWALK
FOR EXISTING 'PINNED-ON' ISLAND

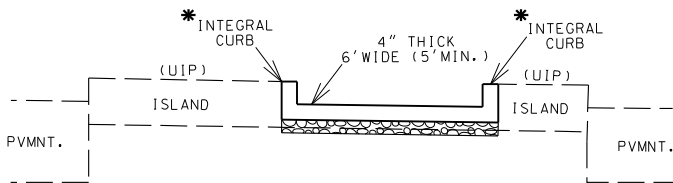


■ SMALL QTY. HAS BEEN INCLUDED FOR 8" THICK SIDEWALK TO ADDRESS ANY UNFORSEEN PVMNT. REPAIRS OR DIFFERENCES IN ELEVATION. (UNDERRUN IF FIELD CONDITIONS DO NOT WARRANT)

** NO INTEGRAL CURB, AGGR. OR LIN. GRADING REQUIRED IF THE ISLAND IS 'PINNED-ON'

* INTEGRAL CURB IS PAID FOR WITH THE 4" CONC. SIDEWALK PAY ITEM.
INTEGRAL CURB IS PAID AS 1' ADDITIONAL SIDEWALK WIDTH (EX. 6'SIDEWALK PAID AS 7') (0.11 SY/LF OF CURB)

SECTION B-B
ISLAND CUT-THRU SIDEWALK



MODIFIED SIDEWALK
AND
SIDEWALK CUT-THRU'S

TYPICAL SHEET
6 OF 8



DATE PREPARED 8/2/2021	
ROUTE V/160	STATE MO
DISTRICT SW	SHEET NO. 2
COUNTY GREENE	
JOB NO. J7S3367D	
CONTRACT ID.	

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE



EFK Moen, LLC
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



STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
REGISTERED PROFESSIONAL ENGINEER
NUMBER
EN 023328

THIS SHEET HAS BEEN SIGNED, SEALED
AND DATED ELECTRONICALLY.

ROUTE V/160	STATE MO
DISTRICT SW	SHEET NO. 2

J7S3367D

BRIDGE NO.

[illegible]

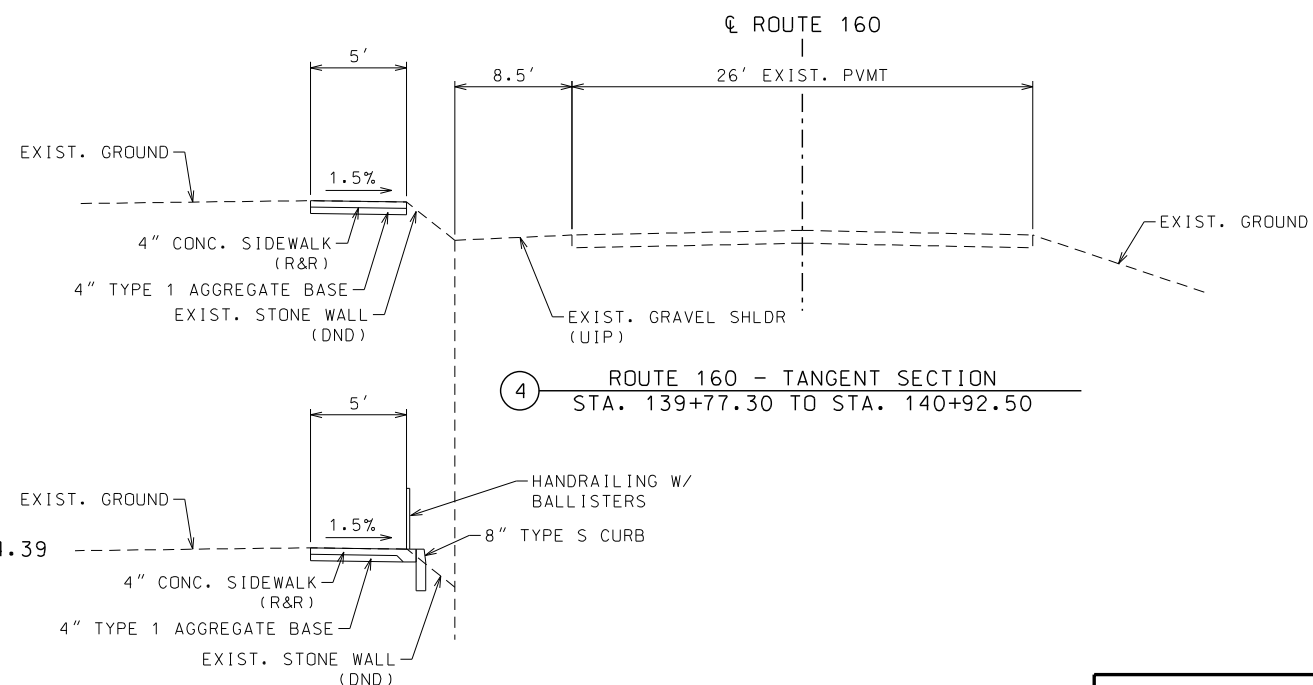
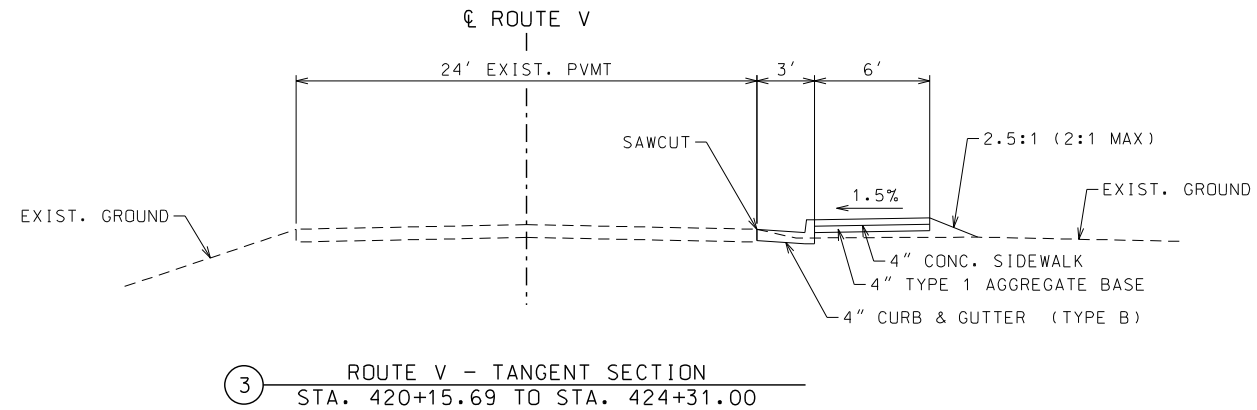
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

EFK • Moen, LLC
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 3523 Barrett Parkway Dr Phone 314-394-3100
 Suite 250 Fax 314-394-3199
 St. Louis, MO 63021
 Missouri Certificate of Authority: 001578

[illegible]

REV.



TYPICAL SHEET
8 OF 8

REMOVAL OF IMPROVEMENTS

SHEET	NO	ROADWAY	STA	STA	LOC	LF	SF	EACH	DESCRIPTIONS
	4	ROUTE V	413+87	414+15	RT	28.0			SAW CUT ENTRANCE
	4	ROUTE V	413+89	415+39	RT	151.0			12 OR 18 IN CMP
	4	ROUTE V	414+07	415+11	RT		370.4		SIDEWALK
	4	ROUTE V	415+01	415+47	RT		406.3		COLLEGE ST (ASPHALT)
	4	ROUTE V	415+01	415+47	RT	64.9			SAW CUT AT COLLEGE
	4	ROUTE V	414+86	415+11	LT		122.1		SIDEWALK
	4	ROUTE V	415+05	415+24	LT		138.3		COLLEGE ST (ASPHALT)
	4	ROUTE V	415+05	415+24	LT	40.0			SAW CUT AT COLLEGE
	4	ROUTE V	415+10		LT			1	STOP SIGN WOOD POST
	4	ROUTE V	419+10	415+21	LT	21.1			2 - 15 IN CMPS
	4	ROUTE V	415+37		RT			1	STOP SIGN WOOD POST
	4	ROUTE V	416+59		RT			1	SPEED LIMIT SIGN POST
	4	ROUTE V	417+26		RT			1	SIGN POST
	4	ROUTE V	417+36		RT			1	OBJECT MARKER SIGN & POST
	4	ROUTE V	417+36	417+44	RT		14.1		ASPHALT PAVEMENT
	4	ROUTE V	417+36	417+44	RT	11.5			SAW CUT PAVEMENT
	4	ROUTE V	417+39	417+44	RT	11.3			2 - 18 IN CMPS
	4	ROUTE V	418+11	418+12	RT	4.7			18 IN CMP
	4	ROUTE V	418+68	418+72	RT		29.7		SIDEWALK
	4	ROUTE V	418+68	418+72	RT	4.0			SAW CUT SIDEWALK
	4	ROUTE V	418+82	419+13	RT	31.2			SAW CUT ENTRANCE
	4	ROUTE V	419+12		RT			1	BUSH
	4-5	ROUTE V	419+15	421+87	RT		1022.3		SIDEWALK
	4	ROUTE V	419+23		RT			1	SIGN ASSEMBLY WOOD POST
	5-6	ROUTE V	419+67	423+77	RT	414.0			SAW CUT EDGE OF PAVEMENT
	5	ROUTE V	420+42	420+45	RT	3.1			SAW CUT SIDEWALK
	5	ROUTE V	420+58		RT			1	SIGN ASSEMBLY POST
	5	ROUTE V	421+17		RT			1	TWO SIGN POSTS
	5	ROUTE V	421+60	421+63	RT	3.7			SAW CUT SIDEWALK
	5	ROUTE V	421+79	421+93	RT		252.1		ENTRANCE (ASPH/CONC)
	5	ROUTE V	421+98	422+43	RT		270.8		BRICK PAVERS
	5	ROUTE V	422+24	422+28	RT		15.3		SIDEWALK
	5	ROUTE V	422+24	422+27	RT	3.6			SAW CUT SIDEWALK
	5-6	ROUTE V	422+93	423+42	RT		179.0		SIDEWALK
	5-6	ROUTE V	423+05	423+77	RT		192.6		ROUTE V (ASPHALT)
	6	ROUTE V	423+09	423+12	RT	3.0			SAW CUT SIDEWALK
	6	ROUTE V	423+32		RT			1	SIGN ASSEMBLY POST
	6	ROUTE V	423+39	423+76	RT	37.6			15 IN CMP
	6	ROUTE V	423+42	423+76	RT		487.2		ENTRANCE (CONCRETE)
	6	ROUTE V	423+52	423+72	RT	26.0			SAW CUT ENTRANCE
	6	ROUTE V	423+75		RT			1	STOP SIGN WOOD POST
	6	ROUTE V	423+77		RT			1	INLET & GRATE
	6	ROUTE V	423+77	423+91	RT	29.3			SAW CUT RTE 160 & V
	6	ROUTE V	423+77	423+88	RT	10.7			15 IN CMP
	6	ROUTE 160	139+77	139+81	LT	4.0			SAW CUT SIDEWALK
	6	ROUTE 160	139+77	140+93	LT		453.1		SIDEWALK
	6	ROUTE 160	139+77	139+87	LT	15.0			HAND-RAILING
	6	ROUTE 160	140+50	140+93	LT		422.5		CONCRETE PAVEMENT
	6	ROUTE 160	140+50	140+93	LT	42.5			SAW CUT PAVEMENT
	6	ROUTE 160	140+61	141+22	LT	60.8			SAW CUT ENTRANCE
	6	ROUTE 160	142+33	142+94	LT	61.4			SAW CUT ENTRANCE
	6	ROUTE 160	142+40	142+91	LT		633.7		ENTRANCE
	6	ROUTE 160	142+48	142+93	LT	45.5			12 IN CMP
	6	ROUTE 160	142+55	142+89	LT	33.9			SAW CUT ENTRANCE
	6	ROUTE 160	143+09	143+39	LT	30.0			12 IN CMP
	6	ROUTE 160	143+11	143+36	LT	25.6			SAW CUT ENTRANCE
	6	ROUTE 160	143+11	143+36	LT		255.3		ENTRANCE
	6	ROUTE 160	143+37		RT			1	STOP SIGN WOOD POST
	6	ROUTE 160	143+37	143+43	RT			2	WHEEL STOPS
	6	ROUTE 160	143+37	143+43	RT		24.5		SIDEWALK
	6	ROUTE 160	143+37	143+43	RT	5.3			SAW CUT SIDEWALK
					PAY TOTAL		1 LUMP SUM		

PAVEMENT MARKING

SHEET NO	ROADWAY	STA	STA	LOC	PREFORMED THERMOPLASTIC PAVEMENT MARKING	PREFORMED THERMOPLASTIC PAVEMENT MARKING	REMARKS
					24 IN WHITE	6 IN WHITE	
					L.F.	L.F.	
18	ROUTE V	414+99	415+06	LT & RT		44.3	CROSSWALK ACROSS RTE V AT COLLEGE
18	ROUTE V	415+11	415+33	RT	9.0	41.5	WEST COLLEGE AT RTE V
18	ROUTE V	415+13	415+23	LT	9.7		EAST COLLEGE AT RTE V
18	ROUTE V	423+75	423+77	RT	18.5		NORTH RTE V AT RTE 160
18	ROUTE 160	143+32	143+39	LT & RT	12.2	58.2	WEST RTE 160 AT RTE V
				SUBTOTALS	49.4	144.0	
				PAY TOTALS	49	144	

CONTAMINATED SOIL

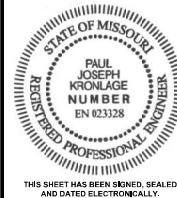
SHEET NO	ROADWAY	STA	STA	LOC	CONTAMINATED SOIL EXCAVATION	CONTAMINATED SOIL HAULING *	CONTAMINATED SOIL DISPOSAL *	BACKFILL	REMARKS	
					C.Y.	TONS	TONS			C.Y.
6	ROUTE 160	142+82	143+46	LT	20.0	40.0	40.0	20.0	PARCEL 6	
				SUBTOTALS	20.0	40.0	40.0	20.0		
				PAY TOTALS	20	40	40	20		

* ASSUME 2 TONS/C.Y.

TEMPORARY EROSION CONTROL

SHEET NO	ROADWAY	STA	STA	LOC	SILT FENCE	CURB INLET CHECK	ALTERNATE DITCH CHECK	SEDIMENT REMOVAL	REMARKS
					L.F.	EA	L.F.	C.Y.	
4 - 6	RTE V	414+07	423+90		820			8.2	
4	RTE V	415+08		LT		1		1	
4	RTE V	417+42		RT		1		1	
6	RTE V	423+38		RT		1		1	
6	RTE V	423+77		RT		1		1	
6	RTE 160	139+82	140+49	LT	70			0.7	
6	RTE 160	143+01		LT		1		1	
4	RTE V	413+50	415+05	RT			18	6	6 ALTERNATE DITCH CHECKS @ 3' WIDE
4	RTE V	414+40	415+00	LT			9	3	3 ALTERNATE DITCH CHECKS @ 3' WIDE
4	RTE V	415+40	417+44	RT			17	5	4 ALTERNATE DITCH CHECKS @ 3' WIDE, 1 @ 5' WIDE
6	RTE 160	412+43		LT			5	1	1 ALTERNATE DITCH CHECKS @ 3' WIDE
6	RTE 160	143+45		RT			3	1	1 ALTERNATE DITCH CHECKS @ 3' WIDE
				SUBTOTALS	890	5	52	29.9	
				PAY TOTALS	890	5	52	30	

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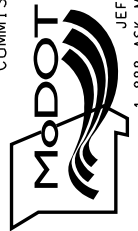


DATE PREPARED	
8/2/2021	
ROUTE	STATE
V/160	MO
DISTRICT	SHEET NO.
SW	3

COUNTY	GREENE
JOB NO.	J7S3367D
CONTRACT ID.	

PROJECT NO.

BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

EFK • Moen, LLC
Civil Engineering Design
314-394-3100 Phone
314-394-3199 Fax
31523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Missouri Certificate of Authorization: 001570

SUMMARY OF QUANTITIES
SHEET 1 OF 4

ENTRANCES										
PLAN SHEET NO.	ROADWAY	STA	STA	LOC	PAVED AREA	GRAVEL (A) OR CRUSHED STONE (B)	PAVED APPROACH 7 IN	TYPE 1 AGGREGATE FOR BASE (4" THICK)	LINEAR GRADING CLASS 1	REMARKS
					S.F.	TONS	S.Y.	S.Y.	STA	
4	ROUTE V	413+87	414+15	RT	225.82		25.09	25.1	0.14	
4	ROUTE V	415+01	415+46	RT	382.71		42.52	42.5	0.15	WEST COLLEGE AVE
4	ROUTE V	415+05	415+24	LT	136.90		15.21	15.2	0.10	NE CORNER COLLEGE AVE & V
4	ROUTE V	417+36	417+44	RT	14.13		1.57	1.6	0.12	
4	ROUTE V	418+82	419+13	RT	269.57	4.4	29.95	30.0	0.24	GRAVEL - 1.4 TONS/C.Y.
5	ROUTE V	419+72	420+27	RT	495.76	2.2	55.08	55.1	0.20	GRAVEL - 1.4 TONS/C.Y.
5	ROUTE V	420+54	420+88	RT	168.80	3.8	18.76	18.8	0.19	GRAVEL - 1.4 TONS/C.Y.
5	ROUTE V	421+66	421+98	RT	213.08	7.5	23.68	23.7	0.30	GRAVEL - 1.4 TONS/C.Y.
5	ROUTE V	422+36	422+76	RT	280.34	11.0	31.15	31.1	0.29	GRAVEL - 1.4 TONS/C.Y.
5	ROUTE V	422+80	423+12	RT	278.19		30.91	30.9	0.20	
6	ROUTE V	423+42	423+77	RT	516.54		57.39	57.4	0.24	
6	ROUTE V	423+72	423+86	RT	67.74		7.53	7.5	0.09	
6	ROUTE 160	140+61	141+22	LT	978.43	3.3	108.71	108.7	0.26	GRAVEL - 1.4 TONS/C.Y.
6	ROUTE 160	142+33	142+94	LT	725.55		80.62	80.6	0.19	
6	ROUTE 160	143+33	143+46	LT	84.19		9.35	9.4	0.13	NW CORNER ROUTE 160 & V
					TOTALS	32.2	537.52	537.6	2.84	
					PAY TOTALS	32	537.5	(1)	2.8	

(1) SEE PAY TOTAL IN "SIDEWALKS" TABLE

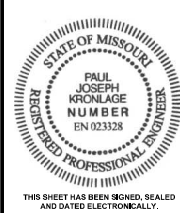
CURB & GUTTER								
SHEET NO	ROADWAY	STA	STA	LOC	CURB (OVER 6" HEIGHT)	CURB AND GUTTER	MODIFIED TYPE A GUTTER WITH	REMARKS
					TYPE S	TYPE B *	STEEL PLATE	
					L.F.	L.F.	L.F.	
4	ROUTE V	414+07	415+01	RT	93.6			
5	ROUTE V	420+20	420+61	RT		41.1		
5	ROUTE V	420+81	421+72	RT		91.9		
5	ROUTE V	421+92	422+43	RT		50.9		
5	ROUTE V	422+70	422+87	RT		17.1		
6	ROUTE V	423+05	423+49	RT		44.5		
6	ROUTE V	423+36	423+41	RT			5.0	
6	ROUTE 160	139+77	140+14	LT	43.1			
				SUBTOTAL	136.7	245.5	5.0	
				PAY TOTAL	137	246	5	

* 4" CURB

MOBILIZATION	1 LUMP SUM
CONTRACTOR FURNISHED SURVEYING AND STAKING	1 LUMP SUM
TURF TYPE TALL FESCUE SODDING	1021 SY
TEMPORARY SEEDING AND MULCHING	0.2 ACRES
ADJUSTING PULL BOX TO GRADE	2 EACH

SIDEWALK												
SHEET NO	ROADWAY	STA	STA	LOC	CONCRETE SIDEWALK 4 IN.	CONCRETE CURB RAMP	TYPE 1 AGGREGATE FOR BASE (4 IN. THICK)	8 IN. CONCRETE MEDIAN STRIP	TRUNCATED DOMES	LINEAR GRADING FOR ADA	SIDEWALK HAND-RAILING WITH BALLUSTERS	REMARKS
					S.Y.	S.Y.	S.Y.	S.Y.	S.F.	L.F.	L.F.	
4	ROUTE V	414+07	415+12	RT	54.79	9.97	64.8	1.68	20.0	105.1		
4	ROUTE V	415+00	415+13	LT	5.28	14.94	20.2	2.81	20.0	13.5		
4	ROUTE V	415+31	418+89	RT	195.91	4.96	200.9		10.0	358.1		
4-5	ROUTE V	419+05	419+84	RT	43.52		43.5			78.5		
5	ROUTE V	420+16	420+64	RT	32.61		32.6			47.9		
5	ROUTE V	420+78	421+74	RT	66.39		66.4			96.3		
5	ROUTE V	421+90	422+44	RT	37.90		37.9			54.3		
5	ROUTE V	422+68	422+89	RT	13.50		13.5			21.7		
6	ROUTE V	423+02	423+52	RT	35.37		35.4			50.1		
6	ROUTE V	423+72	423+89	RT	4.59	4.15	8.7		10.0	17.1		
6	ROUTE V	424+16	424+31	RT		8.62	8.6		10.0	15.1		
6	ROUTE 160	139+77	140+71	LT	55.97		56.0			93.8	40.0	
					SUBTOTAL	545.83	42.64	588.5	4.49	70.0	951.5	40.0
					SUBTOTAL FROM ENTRANCES	-	-	537.6	-	-	-	-
					PAY TOTAL	545.8	42.6	1126	4.5	70	952	40

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DATE PREPARED 8/2/2021	
ROUTE V/160	STATE MO
DISTRICT SW	SHEET NO. 3
COUNTY GREENE	
JOB NO. J7S3367D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK Moen, LLC

Civil Engineering Design

13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021

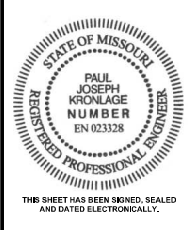
Phone 314-394-3100
Fax 314-394-3199

Missouri Certificate of Authority: 001578

SUMMARY OF QUANTITIES
SHEET 2 OF 4

DRAINAGE STRUCTURES LIDS										
SHEET NO.	ROADWAY	STA	OFFSET	LOC.	STR. NO.	MANHOLE FRAME & COVER TYPE 2	MANHOLE FRAME & COVER TYPE 3	GRATE & BEARING PLATE 3' X 3'	GRATE & BEARING PLATE 5' X 2'	REMARKS
						EA.	EA.	EA.	EA.	
20	ROUTE V	415+47.42	14.9	RT	2-2	1				
20	ROUTE V	415+08.47	17.3	LT	3-2		1			
20	ROUTE V	423+38.38	21.9	RT	6-1		1			
20	ROUTE V	423+76.89	25.7	RT	6-2				1	
20	ROUTE 160	143+00.84	25.1	LT	6-5			1		
SUBTOTALS						1	2	1	1	
PAY TOTALS						1	2	1	1	

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DATE PREPARED 8/2/2021	
ROUTE V/160	STATE MO
DISTRICT SW	SHEET NO. 3
COUNTY GREENE	
JOB NO. J7S3367D	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DRAINAGE STRUCTURES													
SHEET NO.	ROADWAY	STA	OFFSET	LOC	TYPE	STR. NO.	PRECAST CONCRETE MANOLE 48 IN.	PRECAST CONCRETE DROP INLET 3 FT X 2.5 FT	PRECAST CONCRETE DROP INLET 3 FT X 3 FT	PRECAST CONCRETE DROP INLET 5 FT X 2 FT	PRECAST CONCRETE DROP INLET 5 FT X 3 FT	CLASS 3 EXCAVATION	REMARKS
							L.F.	L.F.	L.F.	L.F.	L.F.	C.Y.	
20	ROUTE V	415+47.42	14.9	RT	MANHOLE	2-2	2					3	
20	ROUTE V	415+08.47	17.3	LT	TYPE T	3-2					3	6	
20	ROUTE V	417+42.23	15.2	RT	TYPE E	4-3					2	3	
20	ROUTE V	423+38.38	21.9	RT	TYPE T	6-1		3				5	
20	ROUTE V	423+76.89	25.7	RT	TYPE S-1	6-2				4		7	
20	ROUTE 160	143+00.84	25.1	LT	TYPE S-1	6-5			3			3	
SUBTOTALS							2	3	3	4	5	27	
PAY TOTALS							2	3	3	4	5	(1)	

(1) SEE PAY TOTAL IN "PIPES" TABLE

PIPES																		
SHEET NO.	ROADWAY	FROM STRUCTURE	TO STRUCTURE	STA	STA	12" PIPE GROUP C	15" PIPE GROUP C	18" PIPE GROUP C	18" PIPE GROUP B	24" PIPE GROUP B	TYPE A PIPE COLLAR	TYPE C PIPE COLLAR	BEVELED END TREATMENT FOR 12 IN PIPE	BEVELED END TREATMENT FOR 15 IN PIPE	18 IN. GROUP B FLARED END SECTION	CLASS 3 EXCAVATION	CULVERT CLEANOUT	REMARKS
						L.F.	L.F.	L.F.	L.F.	L.F.	EA.	EA.	EA.	EA.	EA.	C.Y.	EA.	
20	ROUTE V	1-1	1-2	413+86	414+14	28							2			5		
20	ROUTE V	2-1	2-2	414+96	415+47	50							1			12		
20	ROUTE V	2-2	2-3	415+47	415+78	29							1			2		
20	ROUTE V	2-2	2-4	415+47	415+41	13							1			1		
20	ROUTE V	3-1	3-2	414+86	415+08			22						1		5		
20	ROUTE V	3-2	3-3	415+08	415+21			20			2					7		2-15 IN PIPES
20	ROUTE V	3-2	3-4	415+08	415+00			19						1		1		
20	ROUTE V	4-2	4-3	417+37	417+42				10		2					4		2-18 IN PIPES
20	ROUTE V	4-3	4-4	417+42	417+44				18						2	2		2-18 IN PIPES
20	ROUTE V	5-2	5-3	418+12	418+10				13		1				1	2		
20	ROUTE V	6-1	6-2	423+38	423+77			37								15		
20	ROUTE V	6-2	6-3	423+77	423+88					10		1				8		
20	ROUTE V/160	6-2	6-5	423+77	143+01		37									13		
20	ROUTE 160	6-5	6-6	143+01	142+44		55							1		17		
20	ROUTE 160	-	-	141+30	141+71												1	
SUBTOTALS						120	153	37	41	10	5	1	5	3	3	94	1	
SUBTOTAL FROM DRAINAGE STRUCTURES						-	-	-	-	-	-	-	-	-	-	27	-	
PAY TOTALS						120	153	37	41	10	5	1	5	3	3	121	1	

SUMMARY OF QUANTITIES
SHEET 3 OF 4



EFK • Moen, LLC
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

										EFFECTIVE: 04-01-2021									
SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.												
WARNING SIGNS								DESCRIPTION											
W01-1L	48X48	16.00						TURN (SYMBOL LEFT ARROW)											
W01-1R	48X48	16.00						TURN (SYMBOL RIGHT ARROW)											
W01-2L	48X48	16.00						CURVE (SYMBOL LEFT ARROW)											
W01-2R	48X48	16.00						CURVE (SYMBOL RIGHT ARROW)											
W01-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT ARROW)											
W01-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT ARROW)											
W01-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT ARROW)											
W01-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT ARROW)											
W01-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)											
W01-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)											
W01-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)											
W01-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)											
W01-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)											
W01-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)											
W01-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)											
W01-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)											
W01-8	18X24	3.00						CHEVRON (SYMBOL)											
W01-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)											
W03-1	48X48	16.00						STOP AHEAD (SYMBOL)											
W03-2	48X48	16.00						YIELD AHEAD (SYMBOL)											
W03-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)											
W03-4	48X48	16.00						BE PREPARED TO STOP											
W03-5	48X48	16.00						SPEED LIMIT AHEAD											
W04-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)											
W04-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)											
W04-1aL	48X48	16.00						MERGE (ARROW SYMBOL)											
W04-1aR	48X48	16.00						MERGE (ARROW SYMBOL)											
W05-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS											
W05-3	48X48	16.00						ONE LANE BRIDGE											
W05-5	48X48	16.00						NARROW LANES											
W06-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)											
W06-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)											
W06-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)											
W07-3a	30X24	5.00						NEXT XX MILES (PLAQUE)											
W08-1	48X48	16.00						BUMP											
W08-2	48X48	16.00						DIP											
W08-3	48X48	16.00						PAVEMENT ENDS											
W08-4	48X48	16.00						SOFT SHOULDER											
W08-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)											
W08-6	48X48	16.00						TRUCK CROSSING (WITH FLAGS)											
W08-6c	48X48	16.00						TRUCK ENTRANCE											
W08-7	36X36	9.00						LOOSE GRAVEL											
W08-7a	36X36	9.00						FRESH OIL/LOOSE GRAVEL											
W08-9	48X48	16.00	2	32			22	LOW SHOULDER											
W08-11	48X48	16.00						UNEVEN LANES											
W08-12	48X48	16.00						NO CENTER LINE											
W08-15	48X48	16.00						GROOVED PAVEMENT											
W08-15P	30X24	5.00						MOTORCYCLE (PLAQUE)											
W08-17	48X48	16.00						SHOULDER DROP-OFF (SYMBOL)											
W08-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)											
W10-1	42RND.	9.62						RAILROAD CROSSING											
W012-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)											
W012-2	48X48	16.00						LOW CLEARANCE (SYMBOL)											
W012-2X	24X18	3.00						LOW CLEARANCE (PLAQUE)											
W012-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)											
W012-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD											
W012-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD											
W013-1	30X30	6.25						ADVISORY SPEED (PLAQUE)											
W016-2	30X24	5.00						XXX FEET (PLAQUE)											
W016-3	30X24	5.00						X MILE (PLAQUE)											
W020-1	48X48	16.00	8	128			2A	ROAD/BRIDGE/RAMP WORK AHEAD											
W020-2	48X48	16.00						DETOUR AHEAD											
W020-3	48X48	16.00	3	48			20	ROAD CLOSED AHEAD											
W020-4	48X48	16.00	2	32			7	ONE LANE ROAD AHEAD											
W020-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD											
W020-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD											
W020-6a	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED											
W020-7a	48X48	16.00	4	64			8	FLAGGER (SYMBOL, WITH FLAGS)											
W021-2	36X36	9.00						FRESH OIL											
W021-5	48X48	16.00	2	32			21	SHOULDER WORK AHEAD											
W022-1	48X48	16.00						BLASTING ZONE AHEAD											
W022-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE											
W022-3	42X36	10.50						END BLASTING ZONE											
G022-1	21X15	2.19						WET PAINT (ARROW PIVOTS)											

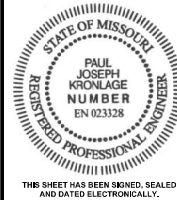
SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL RELOC SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.												
GUIDE SIGNS								DESCRIPTION											
E05-1	36X48	12.00						CORE EXIT											
E05-2	48X36	12.00						EXIT OPEN											
E05-2a	48X36	12.00						EXIT CLOSED											
G020-1	60X24	10.00						ROAD WORK NEXT XX MILES											
G020-2	48X24	8.00						END ROAD WORK											
G020-4	36X18	4.50						PILOT CAR FOLLOW ME											
G020-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW											
G020-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW											
G020-5aP	36X24	6.00	2	12			54	WORK ZONE (PLAQUE)											
M04-8a	24X18	3.00						END DETOUR											
M04-9L	48X36	12.00						DETOUR (LEFT ARROW)											
M04-9R	48X36	12.00						DETOUR (RIGHT ARROW)											
M04-9P	48X12	4.00						STREET NAME (PLAQUE)											
M04-10L	48X18	6.00						DETOUR (ARROW LEFT)											
M04-10R	48X18	6.00						DETOUR (ARROW RIGHT)											
REGULATORY SIGNS																			
R1-1	48X48	13.25						STOP											
R1-2	48TRI.	6.93						YIELD											
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)											
R1-3P	30X12	2.50						ALL WAY (PLAQUE)											
R2-1	36X48	12.00	4	48			4/25	SPEED LIMIT XX											
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)											
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)											
R3-3	36X36	9.00						NO TURNS											
R3-4	48X48	16.00						NO U-TURN (SYMBOL)											
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT											
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT											
R4-1	36X48	12.00						DO NOT PASS											
R4-2	36X48	12.00						PASS WITH CARE											
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)											
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)											
R5-1	30X30	6.25						DO NOT ENTER											
R5-1a	36X24	6.00						WRONG WAY											
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)											
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)											
R6-2L	24X30	5.00						ONE WAY (LEFT)											
R6-2R	24X30	5.00						ONE WAY (RIGHT)											
R9-9	24X12	2.00	16	32			60	SIDEWALK CLOSED											
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE											
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE											
R10-6	24X36	6.00						STOP HERE ON RED (45° ARROW)											
R11-2	48X30	10.00	2	20			29	ROAD CLOSED											
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD											
R11-4	60X30	12.50						LOCAL TRAFFIC ONLY											
CONST-3A	60X48	20.00						ROAD CLOSED TO THRU TRAFFIC											
CONST-3X	56X12	4.67						FINE SIGN											
								SPEEDING/PASSING (PLATE)											
MISCELLANEOUS SIGNS																			
CONST-5	48X36	12.00						POINT OF PRESENCE											
CONST-5	96X48	32.00						POINT OF PRESENCE											
CONST-7	48X24	8.00	2	16			1A	RATE OUR WORK ZONE											
CONST-7	72X36	18.00						RATE OUR WORK ZONE											
CONST-8	48X36	12.00						WORK ZONE NO PHONE ZONE											

NOTES:

ENTRANCES CONSTRUCTED THROUGH NEW RIGHT OF WAY BETWEEN STATION 413+50 TO STATION 425+00 - MAY BE WIDENED BY PERMIT TO A MAXIMUM WIDTH OF 60 FT. [18 M] UNLESS OTHERWISE NOTED.

SE ¼ NW ¼
SEC. 21
T30N R24W

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DATE PREPARED
8/2/2021

ROUTE V/160 STATE MO
DISTRICT SW SHEET NO. 5

COUNTY GREENE

JOB NO. J7S3367D

CONTRACT ID.

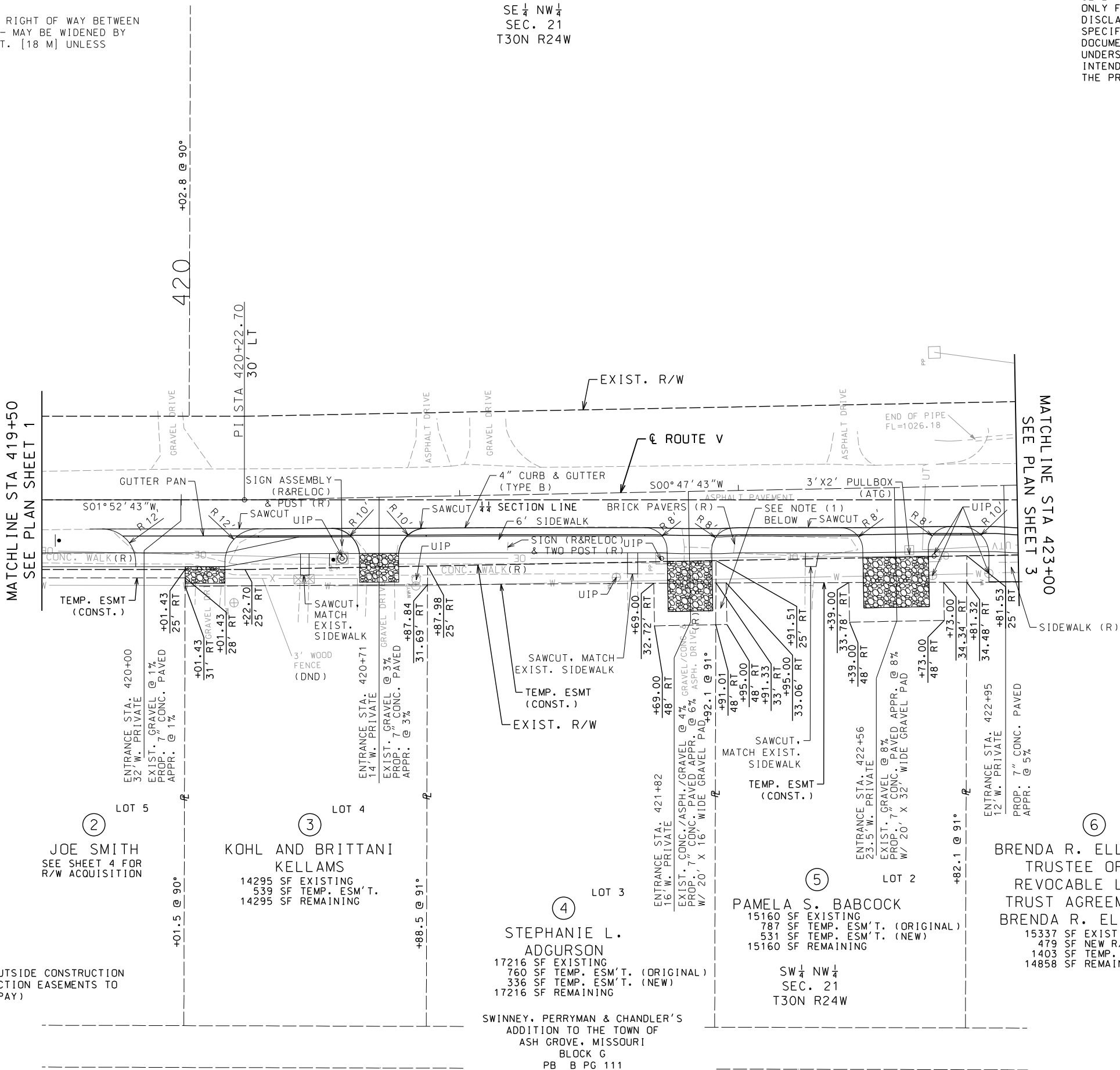
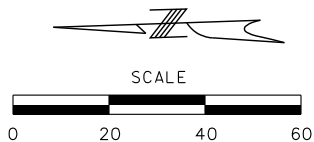
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

EFK Moen, LLC
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



NOTE (1): ALL DISTURBED AREAS OUTSIDE CONSTRUCTION LIMITS WITHIN TEMPORARY CONSTRUCTION EASEMENTS TO BE REPLACED IN KIND (NO DIRECT PAY)

PLAN SHEET
SHEET 2 OF 3

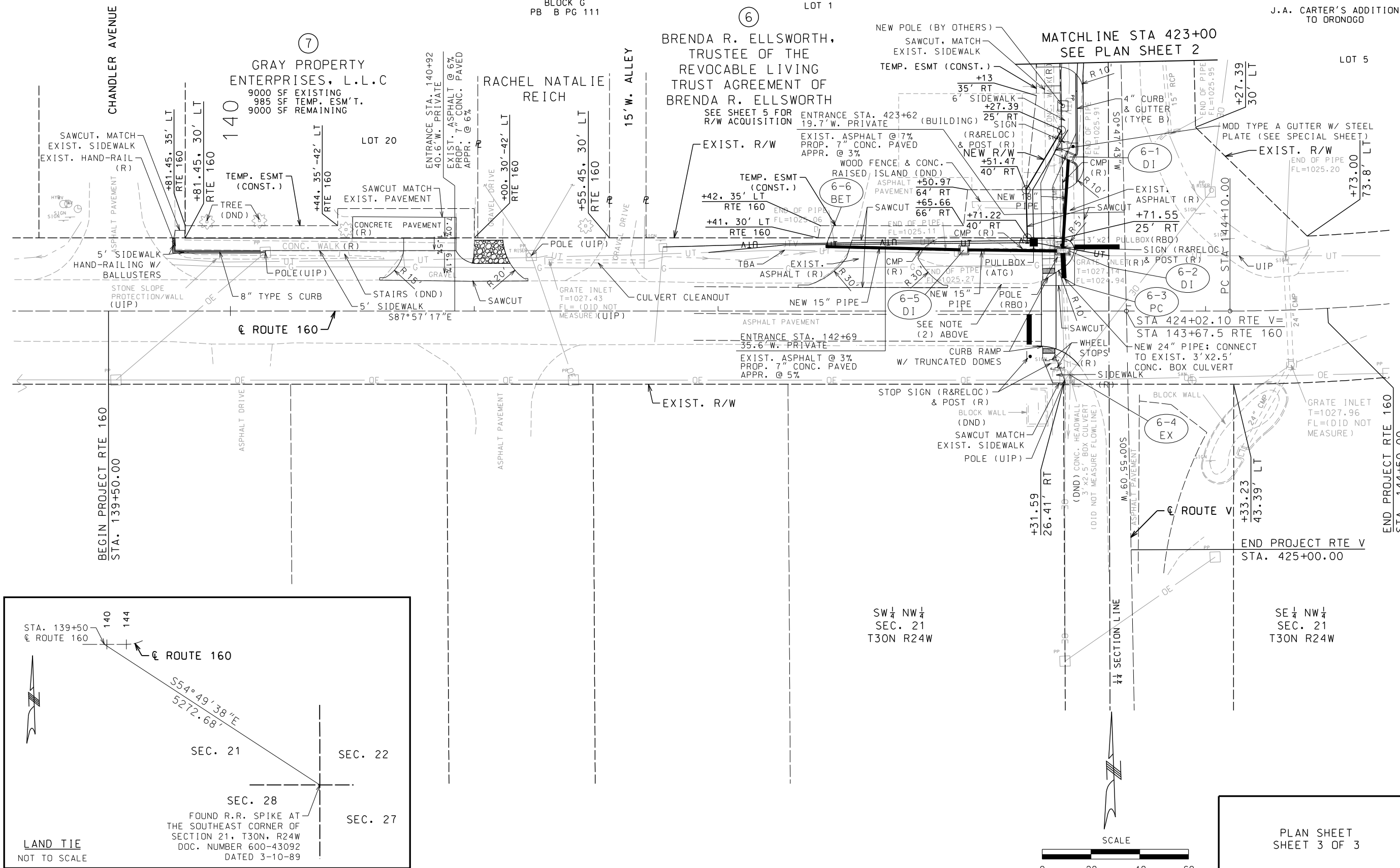
(1) ENTRANCES CONSTRUCTED THROUGH NEW RIGHT OF WAY BETWEEN STATION 413+50 TO STATION 425+00 ROUTE V AND STATION 139+50 TO STATION 144+50 ROUTE 160 - MAY BE WIDENED BY PERMIT TO A MAXIMUM WIDTH OF 60 FT. [18 M] UNLESS OTHERWISE NOTED.

SWINNEY, PERRYMAN & CHANDLER'S
ADDITION TO THE TOWN OF
ASH GROVE, MISSOURI
BLOCK G
PB B PG 111

DISCLAIMER

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J.A. CARTER'S ADDITION
TO ORONOGO



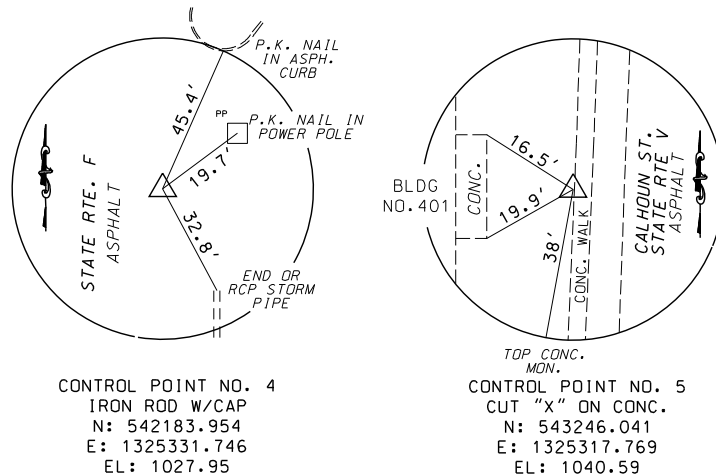
THIS SHEET HAS BEEN SIGNED, SEALED
AND DATED FOR THE PROJECT.

DATE PREPARED	
8/4/2021	
ROUTE	STATE
V/160	MO
DISTRICT	SHEET NO.
SW	6
COUNTY	
GREENE	
JOB NO.	
J7S3367D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

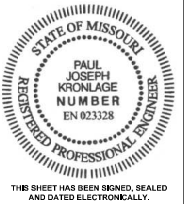
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 105 WEST CAPITAL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

EFK•Moen, LLC
Civil Engineering Design
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DATE PREPARED	
8/2/2021	
ROUTE	STATE
V/160	MO
DISTRICT	SHEET NO.
SW	7
COUNTY	
GREENE	
JOB NO.	
J7S3367D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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.				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																
								540,145.650	1,324,573.450		1,039.68	IRON ROD W/ CAP			1	
								540,933.945	1,324,721.497		1,045.84	IRON ROD W/ CAP			2	
								541,330.075	1,324,967.112		1,048.79	CUT "X" ON CONCRETE			3	
6		425+15.50		ROUTE V		19.05 LT		542,183.954	1,325,331.746		1,027.95	IRON ROD W/ CAP			4	
4		414+54.04		ROUTE V		20.67 RT		543,246.041	1,325,317.769		1,040.59	CUT "X" ON CONCRETE			5	
ALIGNMENTS																
⌘ ROUTE V																
4		413+00.00		ROUTE V				543,399.321	1,325,343.478				POT			
4		413+50.00		ROUTE V				543,349.348	1,325,341.839				BEGIN PROJECT ROUTE V			
5		420+22.70		ROUTE V				542,677.010	1,325,319.785				PI			
6		424+02.10		ROUTE V				542,297.642	1,325,314.519				ROUTE V/160 TIE STATION			
6		425+00.00		ROUTE V				542,199.759	1,325,312.948				END PROJECT ROUTE V			
		426+15.70		ROUTE V				542,084.075	1,325,311.092				POT			
⌘ ROUTE 160																
		135+00.00		ROUTE 160				542,328.602	1,324,447.571				POT			
6		139+50.00		ROUTE 160				542,312.542	1,324,897.285				BEGIN PROJECT ROUTE 160			
6		144+10.00		ROUTE 160				542,296.125	1,325,356.992				PC			
6		144+50.00		ROUTE 160				542,295.814	1,325,396.985				END PROJECT ROUTE 160			
		145+79.88		ROUTE 160				542,290.062	1,325,526.763				PI			
		147+43.61		ROUTE 160				542,360.840	1,325,681.207				PT			
PROJECT PROJECTION FACTOR		1.0000838														
REFERENCE CONTROL INFORMATION																
COORDINATE SYSTEM		CENTRAL														
CONTROL STATION		N/A														
DESIGNATION		ASH														
CORS_ID		N/A														
PID		HD1334														
LATITUDE		37 21 14.65172														
LONGITUDE		93 35 35.97885														
NORTHING (M)		2E+05														
EASTING (M)		4E+05														
ZONE		SPC MO C														
PROJECT AVERAGE GRID FACTOR		0.9999162														
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 #4 N 542183.954 X 0.9999162 = N 542138.519 E 1325331.746 X 0.9999162 = E 1325220.683																
LINEAR UNIT CONVERSION																
1 METER = 3.280833333 US SURVEY FEET (USFT)																
REFERENCE/COORDINATE POINTS SHEET 1 OF 1																

[illegible]

**MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION**

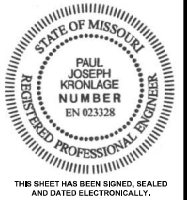
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JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK • Moen, LLC
Civil Engineering Design
 314-394-3100
 314-394-3199
 Phone Fax
 5525 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
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REV.

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ROUTE V/160	STATE MO
DISTRICT SW	SHEET NO. 8

COUNTY
GREENE
JOB NO.
J7S3367D
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

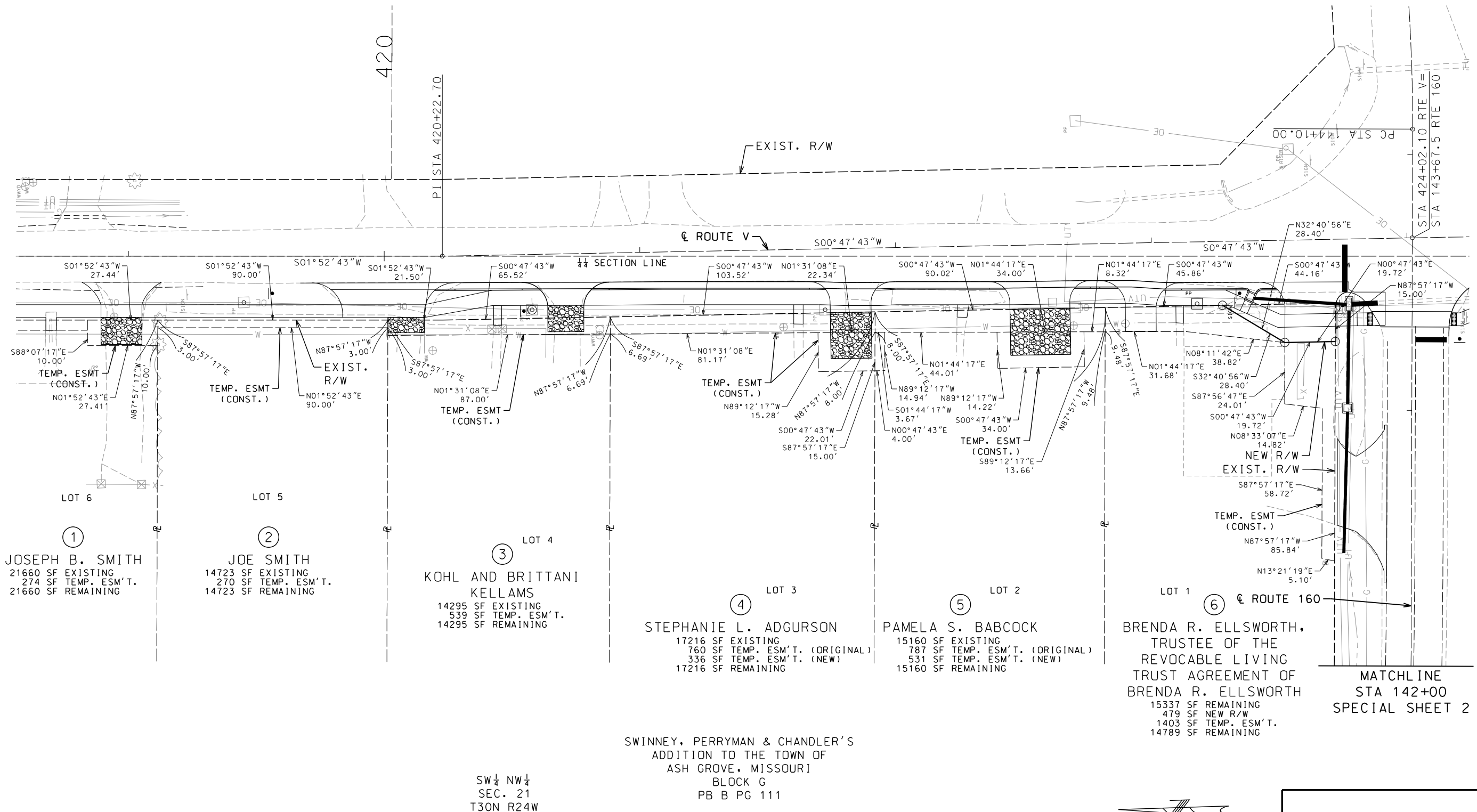
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MISSOURI DEPARTMENT OF TRANSPORTATION
COMMISSION

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

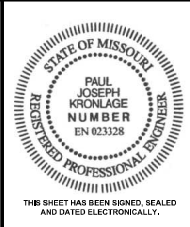
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St. Louis, MO 63021
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SPECIAL SHEET
RIGHT OF WAY BEARINGS
SHEET 1 OF 4

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DATE PREPARED 8/2/2021	
ROUTE V/160	STATE MO
DISTRICT SW	SHEET NO. 9
COUNTY GREENE	
JOB NO. J7S3367D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

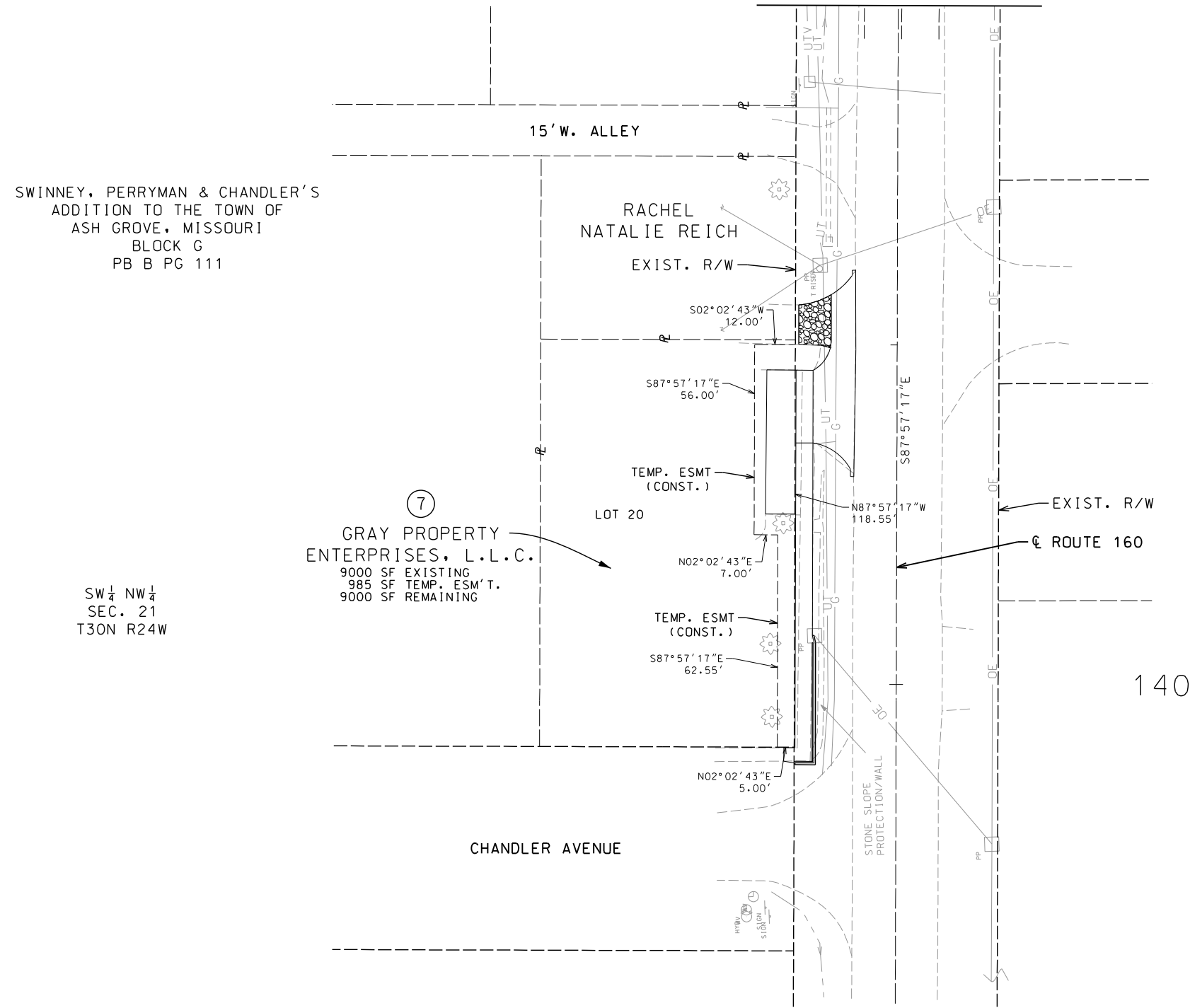
DESCRIPTION	DATE

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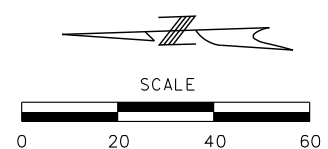
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MATCHLINE STA 142+00
SPECIAL SHEET 1



SWINNEY, PERRYMAN & CHANDLER'S
ADDITION TO THE TOWN OF
ASH GROVE, MISSOURI
BLOCK G
PB B PG 111

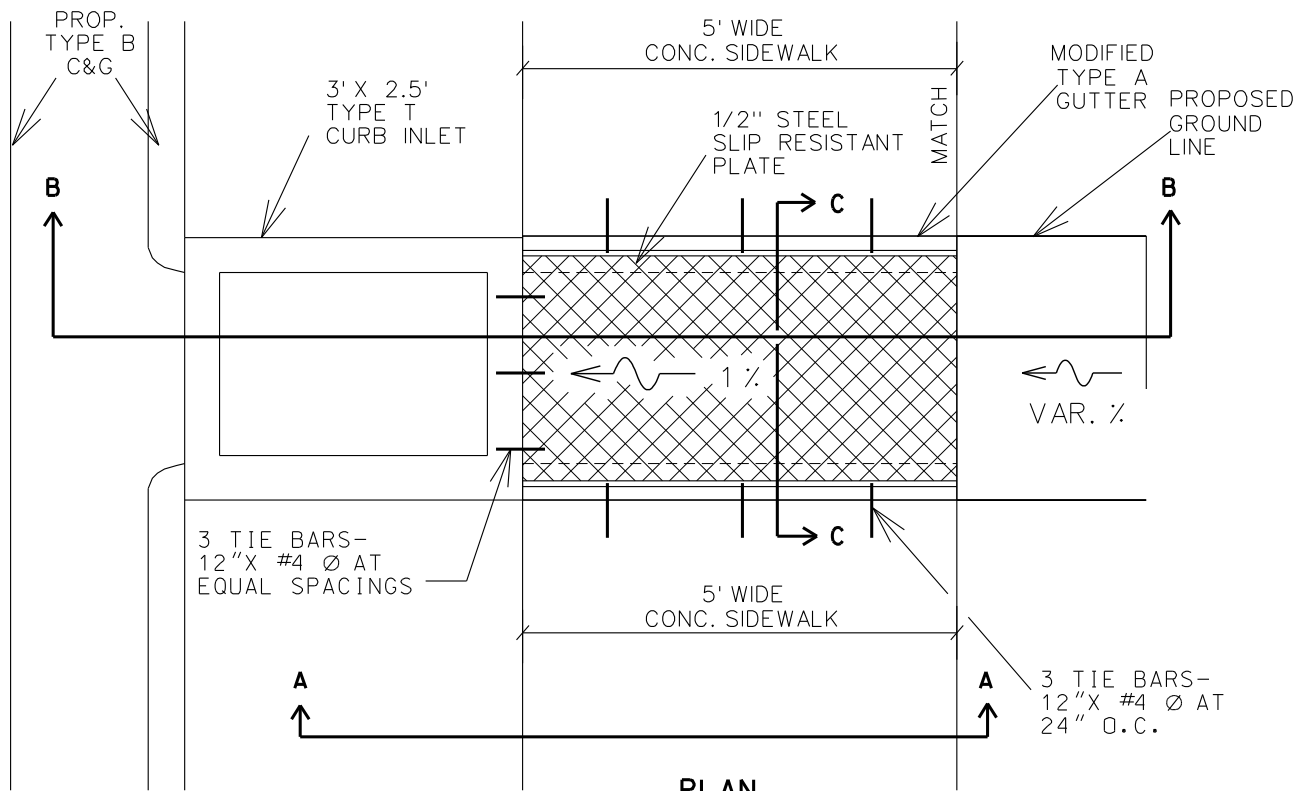
SW 1/4 NW 1/4
SEC. 21
T30N R24W



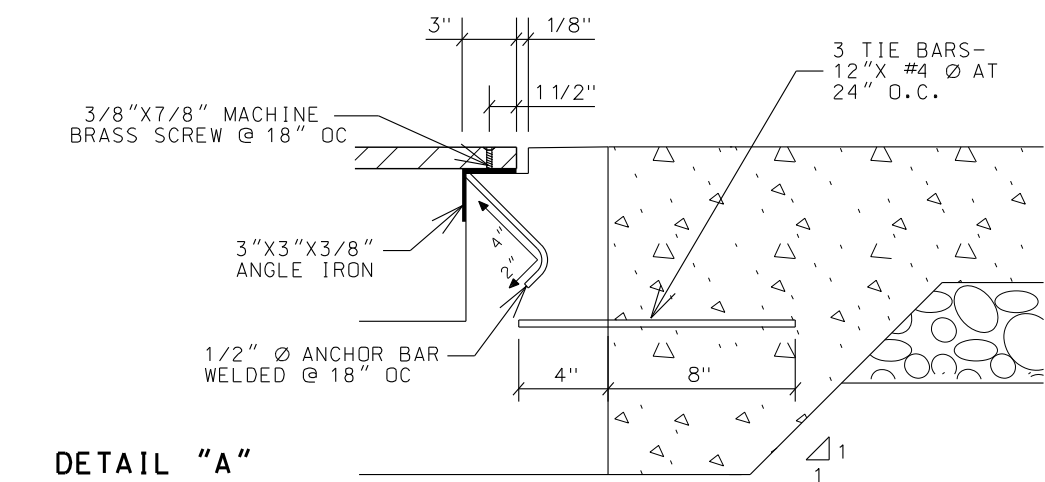
SPECIAL SHEET
RIGHT OF WAY BEARINGS
SHEET 2 OF 4

NOTES:

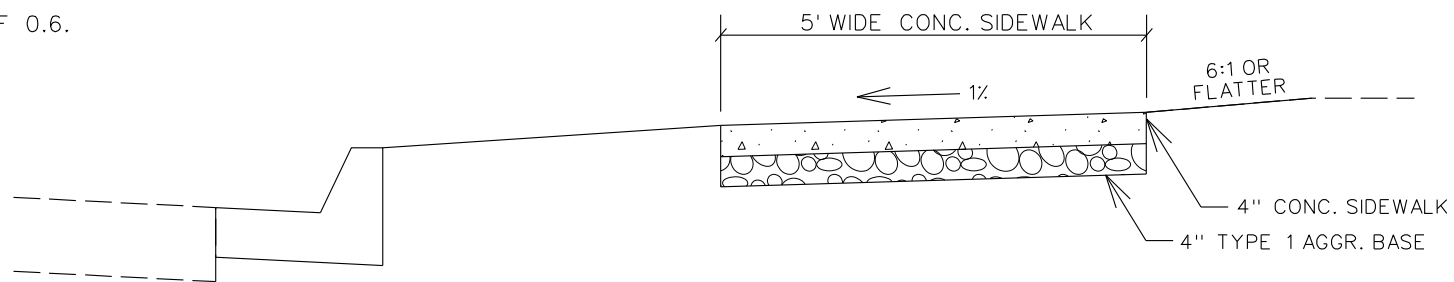
1. THE 1/2" STEEL SLIP-RESISTANT PLATE SHALL HAVE A MIN. STATIC COEFFICIENT OF FRICTION OF 0.6.
2. FLATHEAD BRASS MACHINE SCREWS 3/8" x 7/8". HOLES SHALL BE DRILLED AND TAPPED IN THE FIELD AT INTERVALS NOT TO EXCEED 18" CENTER TO CENTER (NO DIRECT PAY).
3. ALL REINFORCING STEEL BARS SHALL BE EPOXY COATED (NO DIRECT PAY).
4. ALL REINFORCING STEEL, ANCHOR BARS, ANGLE IRON, SCREWS, AND 'T' SUPPORTS SHALL BE INCIDENTAL (NO DIRECT PAY).



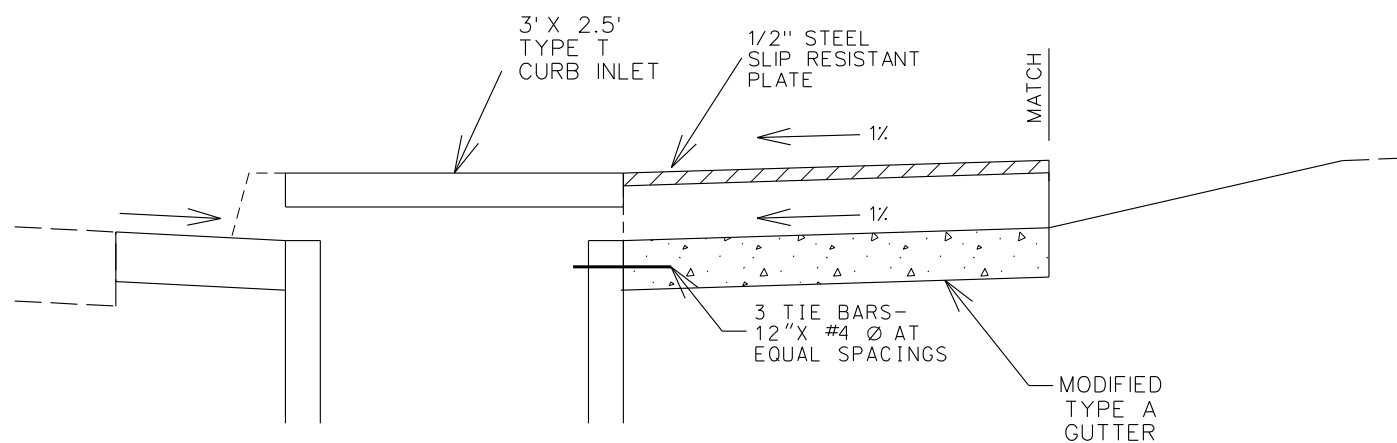
PLAN



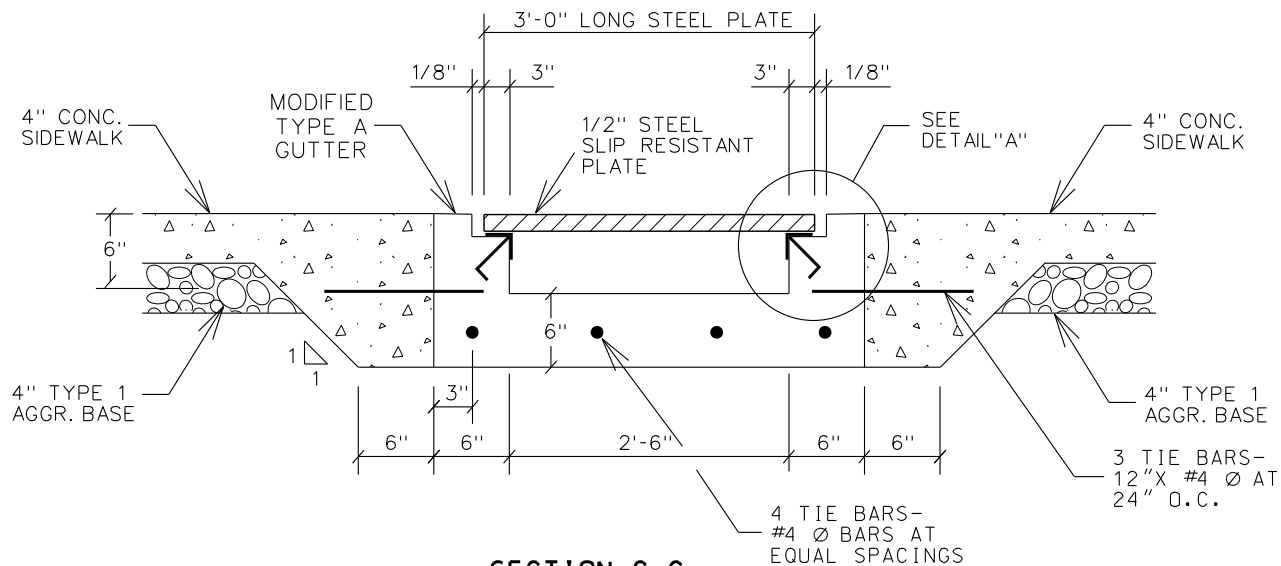
DETAIL "A"



SECTION A-A



SECTION B-B



SECTION C-C

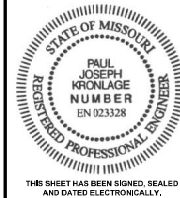
STA. 423+38.38 (ROUTE V)

MODIFIED TYPE A GUTTER W/ STEEL PLATE

NOT TO SCALE

SPECIAL SHEET
4 OF 4

REVISED: 03-29-2016



DATE PREPARED
8/2/2021

ROUTE
V/160

STATE
MO

DISTRICT
SW

SHEET NO.
1-1

COUNTY
GREENE

JOB NO.
J7S3367D

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION

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NOT TO SCALE

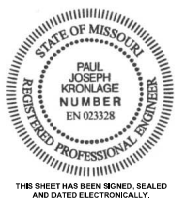
BEGIN/END OF PROJECT SIGNING
DUAL-LANE

EFFECTIVE: 06-08-2016
REVISED (ADA): 01-04-2017

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 (S)	NON-DIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	1000 FT	1000 FT



DATE PREPARED
8/2/2021

ROUTE
V/160

STATE
MO

DISTRICT
SW

SHEET NO.
12

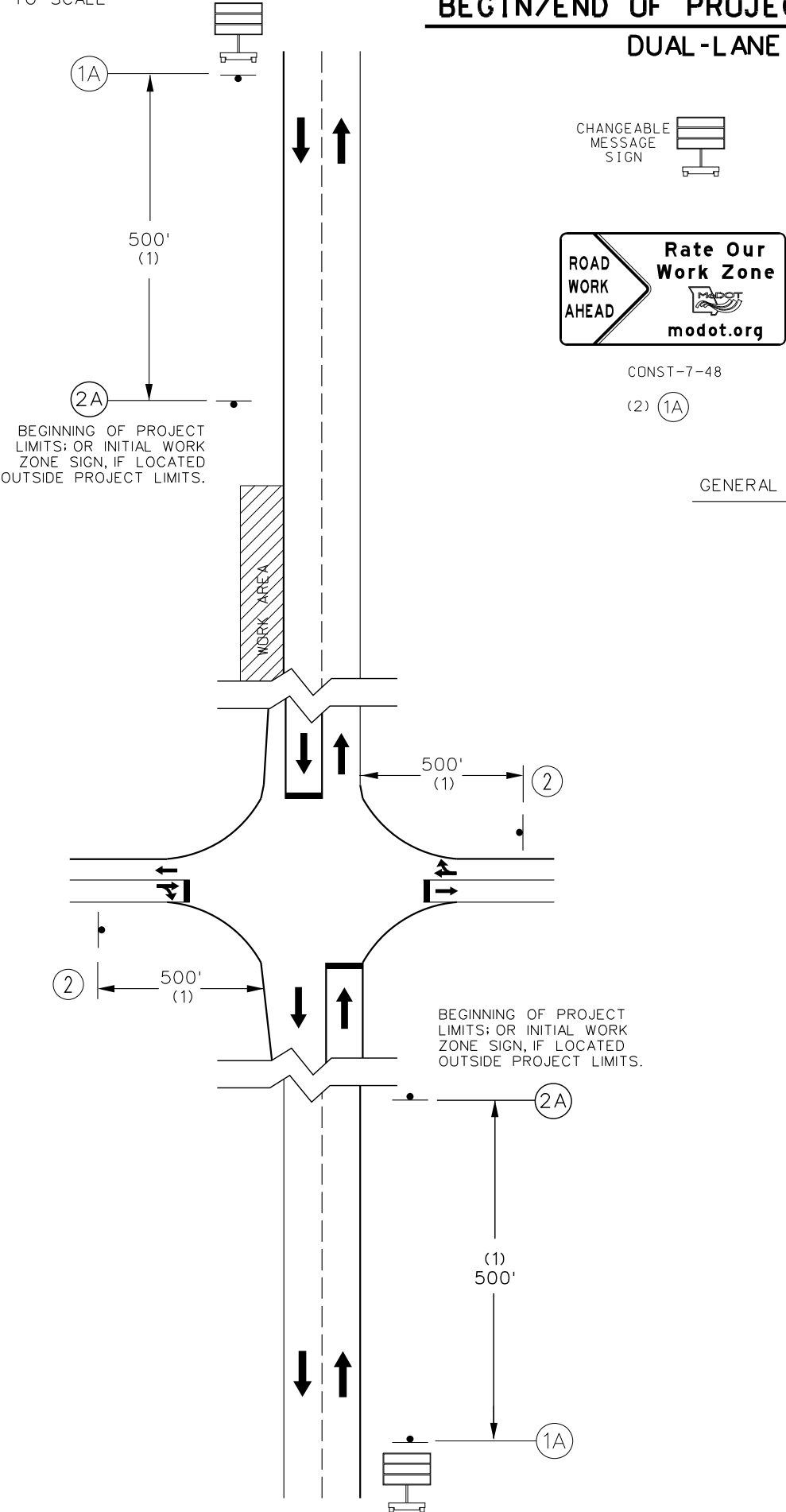
COUNTY
GREENE

JOB NO.
J7S3367D

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.



- GENERAL NOTES:
- ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
 - ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER.
 - SEE STANDARD DRAWING 616.10 AND 620.10 FOR ADDITIONAL DETAILS, AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.
 - SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.
 - TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST.
 - NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONST. SIGNS OR FLASHING ARROW PANEL.
 - NO DIRECT PAYMENT WILL BE MADE FOR TEMPORARY STOP OR YIELD SIGNS AS NEEDED TO MAINTAIN EXISTING STOP/YIELD CONDITIONS AS APPROVED BY THE ENGINEER.
 - ALL SIGNS, EXCEPT "RATE OUR WORK ZONE" SIGN, SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING PROPER TRAFFIC CONTROL SETUPS THROUGHOUT CONSTRUCTION AS DESCRIBED IN THESE PLANS OR AS APPROVED BY THE ENGINEER. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 - WHERE MINIMUM LANE WIDTHS CANNOT BE ACHIEVED ON THE SIDE STREETS, THE CONTRACTOR SHALL CLOSE HALF OF THE APPROACH AND POSITION A FLAGGER AT EACH END OF THE WORK AREA. LOCATION TO BE DETERMINED BY THE ENGINEER. ADVANCE FLAGGER SIGNING SHALL BE INSTALLED AS OUTLINED IN THE MUTCD.
 - THE CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO ALL BUSINESSES AND STREETS. NO STREET OR ENTRANCE SHALL BE COMPLETELY BLOCKED.
 - ALL PEDESTRIAN TRAFFIC CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE CURB RAMP & SIDEWALK IS OPENED FOR PEDESTRIAN TRAVEL.
 - PEDESTRIAN TRAFFIC CONTROL SIGNS MAY BE MOUNTED ON PORTABLE MOUNTS AT 1 FT. PROVIDED THEY DO NOT INTERFERE WITH PEDESTRIAN MOVEMENT OR BE OBSTRUCTED BY PARKING. OTHERWISE, SIGNS SHALL BE MOUNTED AT 7 FT.
 - SPACING & DISTANCES OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD & APPROVED BY THE ENGINEER.

- (1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.
- (2) THE "RATE OUR WORK ZONE" SIGN IS PLACED 500 FEET BEFORE THE BEGINNING OF PROJECT LIMITS, THE ROAD WORK AHEAD SIGN OR ROAD WORK NEXT XX MILES SIGN. IF USED, THIS SIGN WILL BE OUTSIDE OF THE PROJECT LIMITS.

THE "RATE OUR WORK ZONE" SIGN IS AVAILABLE IN TWO SIZES DEPENDING ON ROADWAY CONDITIONS. THE 48" X 24" SIGN IS USED ON LOW VOLUME ROUTES THAT CARRY 400 AADT OR LESS, ON PROJECTS THAT HAVE A DURATION OF 4 WEEKS OR LESS OR IN URBAN AREAS WHERE THERE IS INSUFFICIENT RIGHTS OF WAY FOR A SIX FOOT WIDE SIGN. THE 72" X 36 IN. VERSION OF THE SIGN IS USED IN ALL OTHER APPLICATIONS, BUT CAN ALSO BE USED IN PLACE OF THE 48" X 24" SIGN IF ADDED EMPHASIS IS DEEMED NECESSARY.

TRAFFIC CONTROL
SHEET 1 OF 5

DESCRIPTION	DATE
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.	.
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MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

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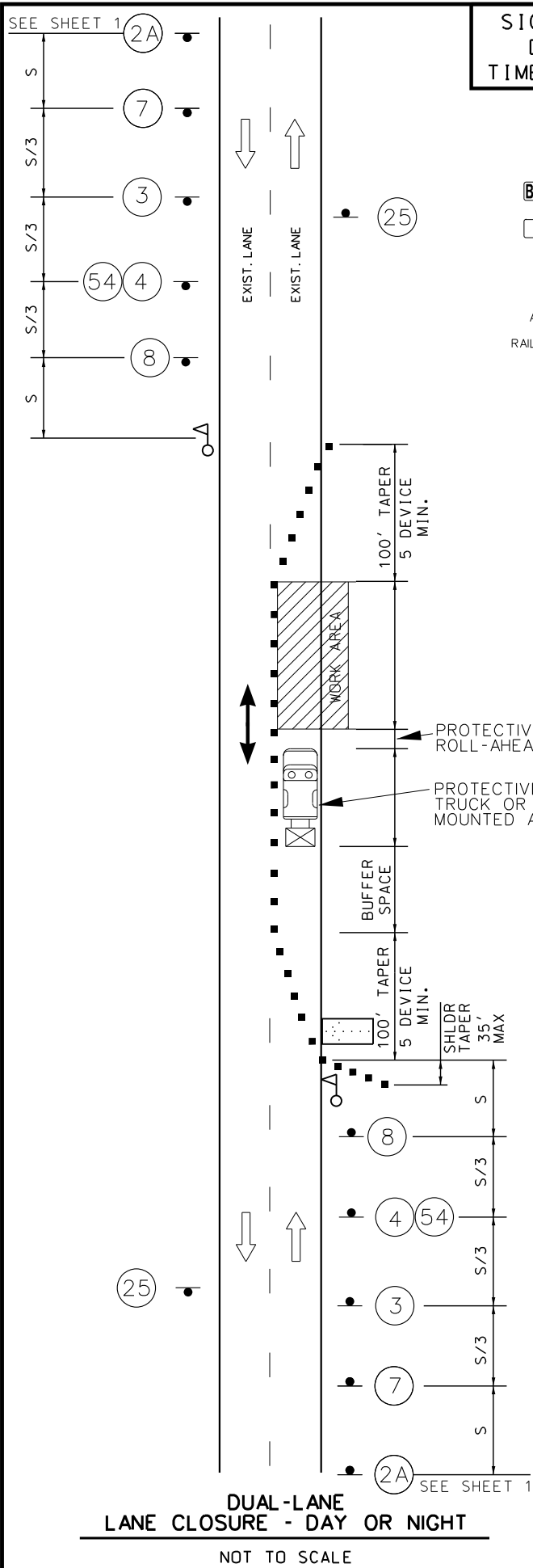
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Civil Engineering Design

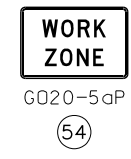
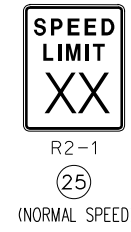
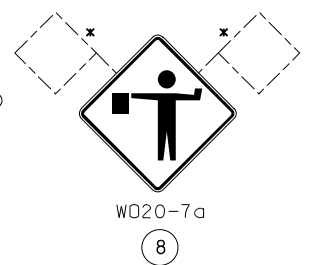
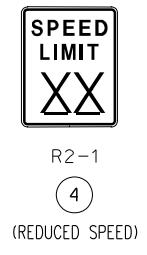
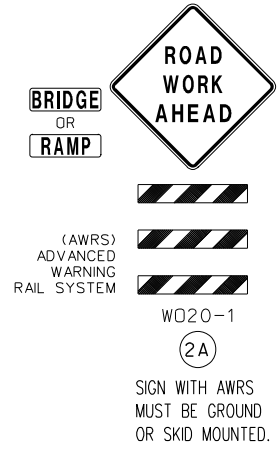
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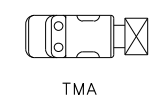
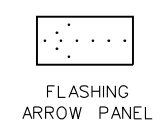


SIGNING REFLECTS
DAY OR NIGHT
TIME WORKING HOURS



▲▲▲▲▲
DIRECTIONAL INDICATOR BARRICADES

■ ■ ■ ■ ■
CHANNELIZERS



NIGHT TIME WORK HOURS
X PM - X AM

NOTES:

SEE BEGIN/END OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.

IN TAPER SECTIONS: QUANTITY OF TRIMLINE CHANNELIZERS IS DOUBLED WHEN COMPARED TO MAX. CHANNELIZER SPACING IN THE CHART.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES (NO DIRECT PAY)

NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONST. SIGNS, OR FLASHING ARROW PANEL.

NO DIRECT PAYMENT WILL BE MADE FOR TEMPORARY STOP OR YIELD SIGNS AS NEEDED TO MAINTAIN EXISTING STOP/YIELD CONDITONS AS APPROVED BY THE ENGINEER.

FOR SHORT TERM OPERATIONS WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, DEVICE SPACING ARE ONE-HALF OF THE SPACING SHOWN IN TABLE.

SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.

ALL SIGNS, EXCEPT "RATE OUR WORK ZONE", SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.

WORK WILL REQUIRE LANE CLOSURES UNLESS OTHERWISE APPROVED BY ENGINEER.

LAYOUT IS TYPICAL FOR EITHER DIRECTION. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER. SEE STANDARD DRAWING 616.10 FOR ADDITIONAL DETAILS.

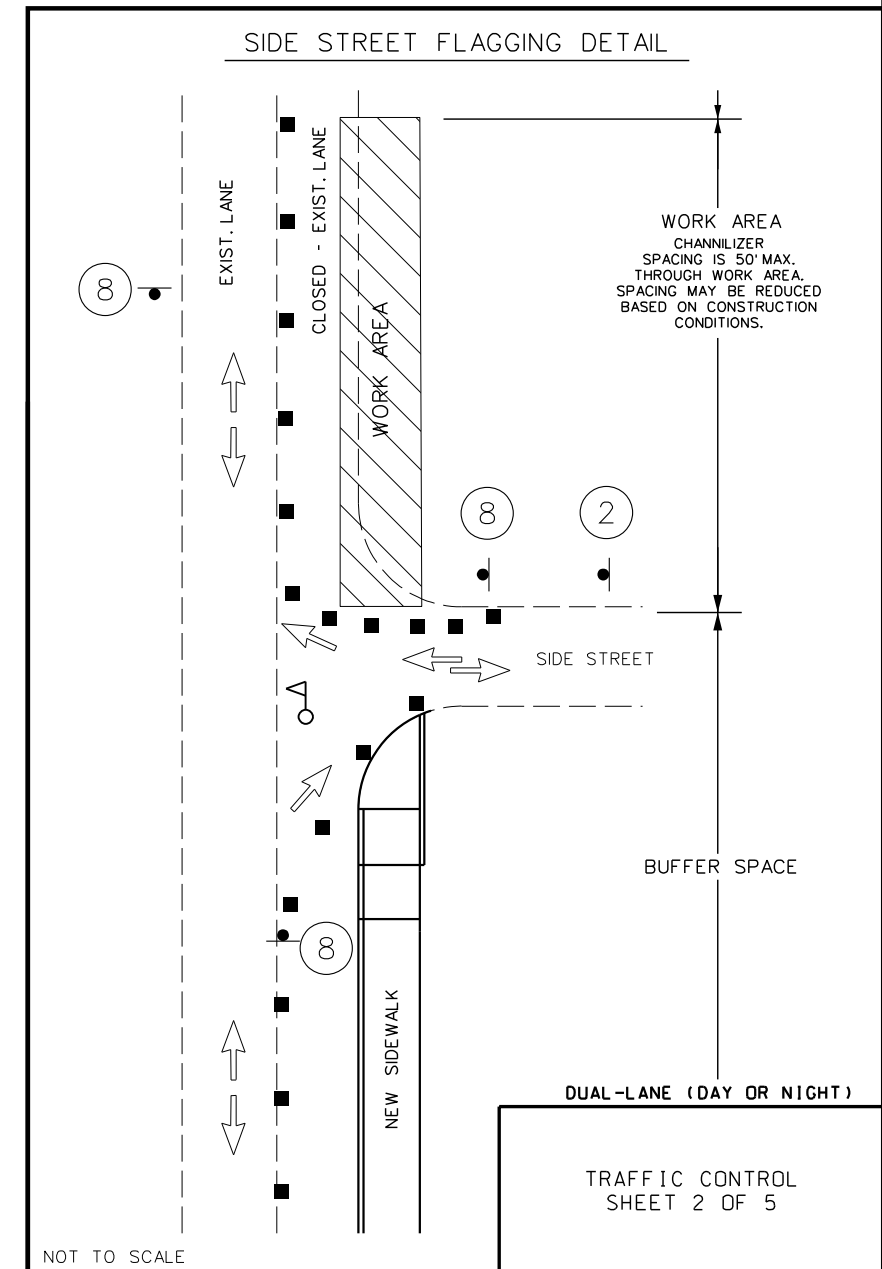
THE MAX. CHANNELIZER SPACING WITHIN THE WORK ZONE AREA MAY BE REDUCED BASED ON CONSTRUCTION CONDITIONS, AS APPROVED BY ENGINEER.

* SIGN W020-7A (FLAGGER SYMBOL) FLAGS ARE SUBSIDIARY TO THE SIGN. NO DIRECT PAY.

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SIGN SPACING FOR ADVANCE SIGN SERIES		OPTIONAL	CHANNELIZER SPACING (FT)
SPEED MPH (S)	NON-DIVIDED HIGHWAYS	BUFFER LENGTH (FT)	BUFFER/ WORK AREAS
0-35	200 FT	280	40
40-45	350 FT	400	80
50-55	500 FT	560	80
60-70	1000 FT	840	120



DATE PREPARED
8/2/2021

ROUTE
V/160

STATE
MO

DISTRICT
SW

SHEET NO.
13

COUNTY
GREENE

JOB NO.
J7S3367D

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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JEFFERSON CITY, MO 65102
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Phone 314-394-3100
Fax 314-394-3199
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1. NO DIRECT PAYMENT WILL BE MADE FOR ORANGE SAFETY FENCE AS REQUIRED AROUND EXCAVATION OF SIDEWALK & CURB RAMP AREAS.
2. SEE JSP's FOR PEDESTRIAN TRAFFIC DEVICES.
3. WORKING AREAS SHALL BE GUARDED FROM PEDESTRIAN ACCESS BY BARRICADE FENCING 36" TO 48" IN HEIGHT WITH A GAP NO GREATER THAN 6" FROM THE GROUND AND HOLES NO GREATER THAN 4" IN ANY DIRECTION.
4. PEDESTRIAN ACCESS ON SIDEWALK SHALL BE PROVIDED WITH A WIDTH NOT LESS THAN 4' OF SMOOTH STABLE SURFACING ADJACENT TO BARRICADE FENCING.
5. SIDEWALK RAMP CLOSURES FOR RECONSTRUCTION SHALL BE PERFORMED WITH ADA COMPLIANT MOVEABLE BARRICADES. TWO BARRICADES PER PEDESTRIAN APPROACH. ONE SIDEWALK CLOSED SIGN WILL BE PLACED UPON ONE BARRICADE FOR EACH APPROACH.

NOT TO SCALE

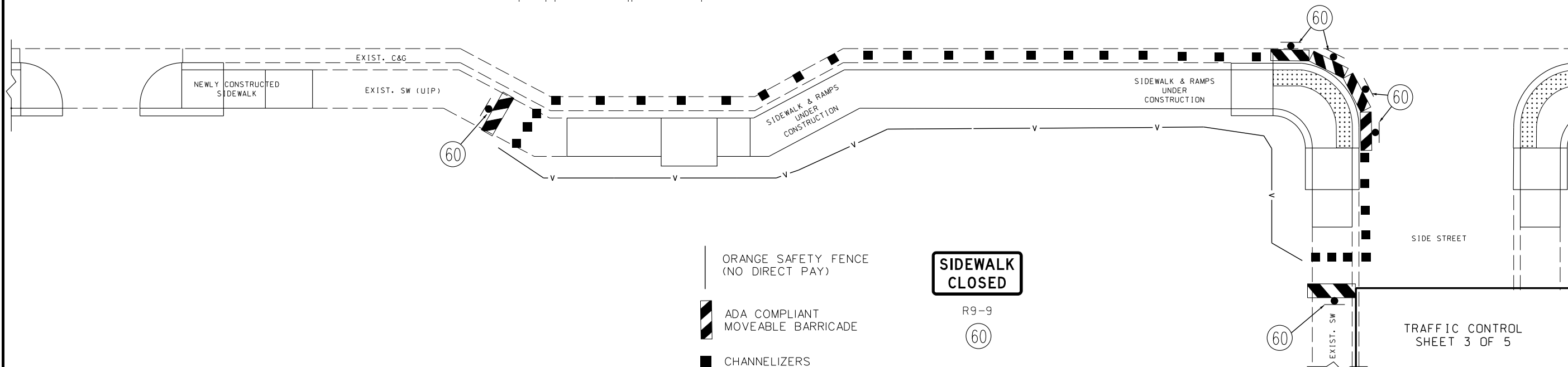
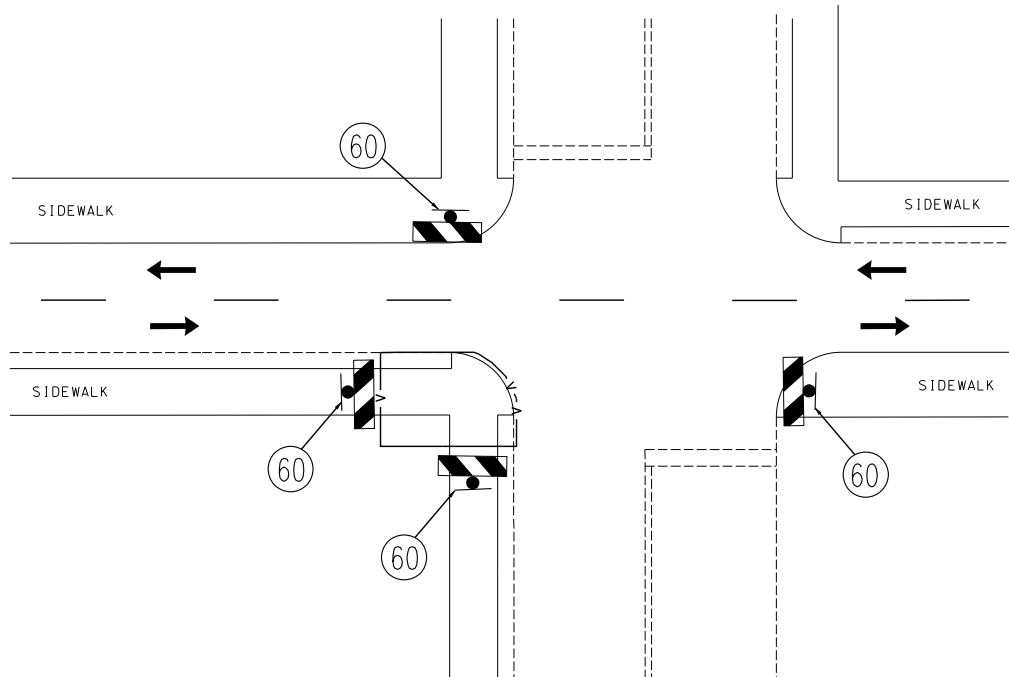


Diagram illustrating a supported fence foundation. The diagram shows a grid of T-posts forming a fence structure. Key dimensions and components are labeled:

- 6' MAX. T-POST SPACING:** Dimension across the top of the grid.
- 6' T-POST:** Labels on the left and right sides pointing to the vertical posts.
- BARRICADE SUPPORTED FOUNDATION THE FENCE UP-RIGHT P**: Text on the right side of the diagram.

REVISÉ: 11-19-2018



ROUTE V/160	STATE MO
DISTRICT S.W	SHEET NO. 14

JOB NO.
J7S3367D

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]

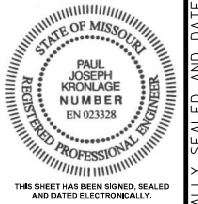
1. WARNING LIGHTS SHALL NOT BE ATTACHED TO ADA COMPLIANT BARRICADES.
2. CHEVRON RAILS ON THE ADA COMPLIANT BARRICADES MUST BE 8" WIDE MIN. AND MEET TYPE 3 RETRO-REFLECTIVE SHEETING AND COLOR CONTRAST BARRICADE RAILS AS SHOWN. THE TOP RAIL MUST PROVIDE A SMOOTH CONTINUOUS RAIL SURFACE SUITABLE FOR HAND TRAILING WITH NO SPLINTERS, BURRS, OR SHARP EDGES. A MINIMUM OF TWO 8" WIDE RAILS IS REQUIRED.
3. NO TRIPPING HAZARDS FROM THE BARRICADES ARE ALLOWED WITHIN THE PEDESTRIAN SPACE. THIS MEANS NO FEET OR BARS USED TO HOLD THE RAILS OR SUPPORT THE DEVICE ARE ALLOWED WITHIN THE WALKWAY. ALL FEET AND BALLASTS WILL NEED TO BE BEHIND THE DEVICE.
4. THE BARRICADE MUST BE THE FULL WIDTH OF THE CLOSED SIDEWALK.

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

EKF • Moen, LLC
Civil Engineering Design
3524 Barrett Parkway Dr
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Phone 314-394-3100
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Missouri Certificate of Authority: 001578

TRAFFIC CONTROL
SHEET 3 OF 5

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ROUTE V/160	STATE MO
DISTRICT S.W	SHEET NO. 15

JOB NO.
J7S3367D

CONTRACT ID.

PROJECT NO.	CH
-------------	----

BRIDGE NO.

TRAFFIC CONTROL LEGEND



SIGN (SINGLE SIDED)



TYPE 3 BARRICADE



WORK SPACE



ADVANCED RAIL
WARNING SYSTEM



SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
Normal Posted (mph)	Undivided (S)	Divided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
0-35	200	200	-	-	250	-	-
40-45	350	500	-	-	360	-	-
50-55	500	1000	-	-	495	-	-
60-70	1000	SA - 1000 SB - 1500 SC - 2640	-	-	730	-	-
1. Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.							

(1) ROAD CLOSED SIGN MAY BE PLACED 7-10 FEET BEHIND THE BARRICADES AND AT A SIGN HEIGHT APPROPRIATE TO THE TYPE OF ROADWAY. ONE BARRICADE SHOULD BE REQUIRED TO COMPLETELY CLOSE EACH 8-FEET OF PAVEMENT. PAVED SHOULDERS SHALL BE INCLUDED IN THE AREA TO BE CLOSED.

(2) IF USED, THE ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY OR ROAD CLOSED TO THRU TRAFFIC SIGN SHOULD BE LOCATED AT THE FIRST STATE ROUTE OR, AT THE DISCRETION OF THE ENGINEER, ANY OTHER INTERSECTION IN ADVANCE OF THE CLOSURE. ADDITIONAL BARRICADES MAY BE USED AND OFFSET TO FACILITATE ACCESS FOR WORK VEHICLES, LOCAL TRAFFIC, ETC.

TRAFFIC CONTROL SHOULD BE REMOVED AS SOON AS PRACTICAL AFTER CONDITION FOR THE CLOSURE NO LONGER EXISTS.

FOR LONG-TERM OPERATIONS, REFER TO EPG 616.6.2.2 FLAGS AND ADVANCE WARNING RAIL SYSTEM (AWRS).

ADDITIONAL WARNING SIGNS SHOULD BE ERECTED AT EACH INTERSECTION WITHIN THE WORK ZONE.

SEE STANDARD PLAN 616.10 FOR USE OF BARRICADES AND SIGNS.

FOR LONG-TERM CLOSURE, DETOUR SIGNING SHOULD BE CONSIDERED.

FOR DETOUR SIGNING, REVIEW EPG 616.8.9 ROAD CLOSED BEYOND JUNCTION DETOUR.

TRAFFIC CONTROL
SHEET 4 OF 5



MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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JEFFERSON CITY, MO 65102
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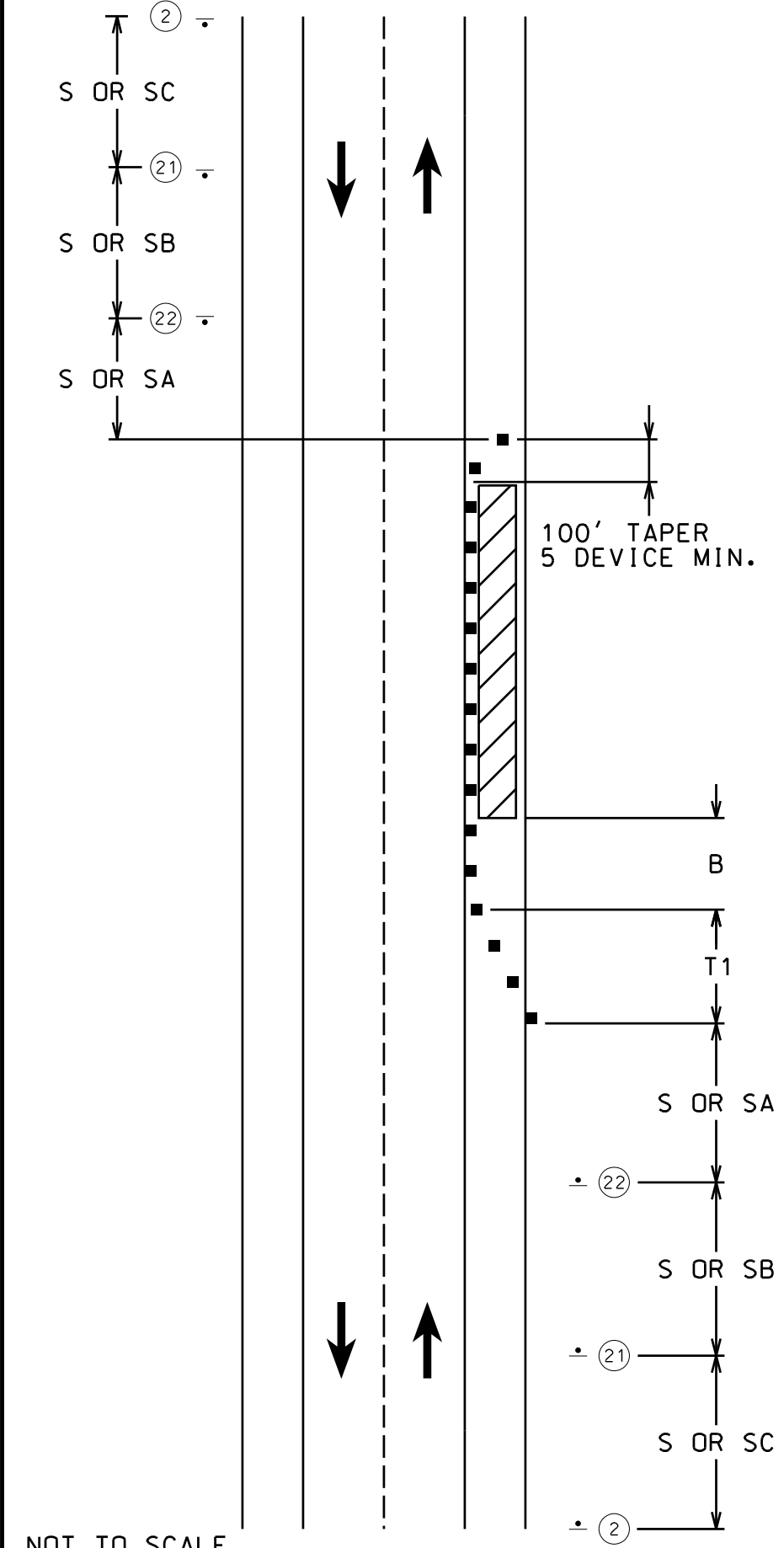
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Civil Engineering Design
3523 Barrett Parkway Dr Phone 314-394-1300
Suite 250 Fax 314-394-3199
St. Louis, MO 63021
Missouri Certificate of Authority: 001578

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

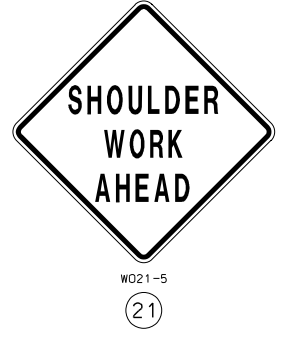
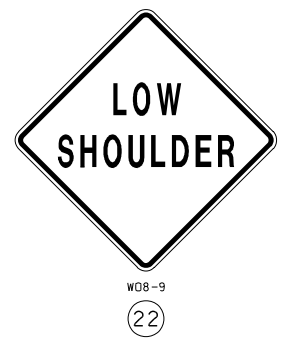
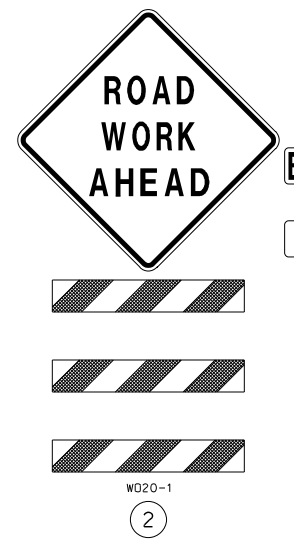
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Z:\20033 J7S3367D ADA Routes 160-V\DGN\Design\Final\Plotsheets\015_TC_04_J7S3367D_ROAD_CLOSURE_i.dgn 10:47:31 AM 8/2/2021

TA-3 - WORK ON THE SHOULDER ON DIVIDED AND UNDIVIDED HIGHWAYS - DE/CM



NOT TO SCALE



SPEED NORMAL POSTED (MPH)	SIGN SPACING (FT.)		TAPER LENGTH (FT.)		OPTIONAL	CHANNELIZER SPACING (FT.)	
	UNDIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (FT.) (B)	TAPERS	BUFFER/WORK AREAS
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50-55	500	1000	185	660	560	50	80
60-70	1000	SA - 1000 SB - 1500 SC - 2640	235	840	840	60	120

1. SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET. 2. LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.

NOTES:

PROVIDE SIGNS ON LEFT AND RIGHT SIDES OF DIVIDED HIGHWAYS

ROAD WORK AHEAD SIGN NOT NEEDED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER ROAD WORK AHEAD SIGN IS ALREADY USED.

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S ROTATING LIGHTS OR STROBE LIGHTS.

WHEN PAVED SHOULDERS HAVING A WIDTH OF 8 FEET OR MORE ARE CLOSED, AT LEAST ONE ADVANCE WARNING SIGN SHALL BE USED. IN ADDITION, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND DIRECT VEHICULAR TRAFFIC TO REMAIN WITHIN THE TRAVELED WAY.

WORK ON THE SHOULDER ON DIVIDED AND UNDIVIDED HIGHWAYS

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TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- ▨ WORK AREA

DATE PREPARED
8/2/2021

ROUTE V/160	STATE MO
DISTRICT SW	SHEET NO. 16

COUNTY
GREENE

JOB NO.
J7S3367D

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

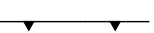
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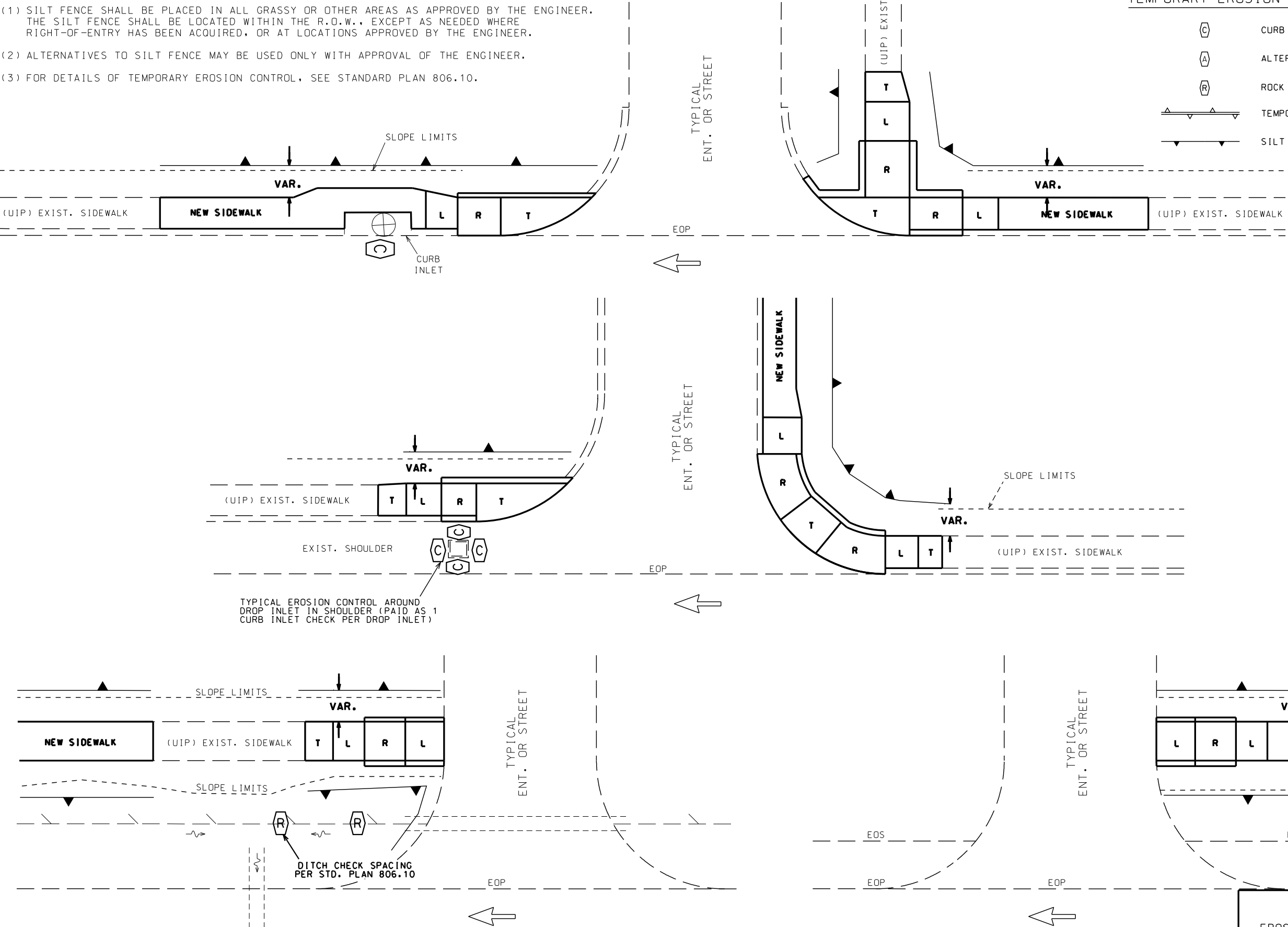
EFK Moen, LLC
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

NOTES:

- (1) SILT FENCE SHALL BE PLACED IN ALL GRASSY OR OTHER AREAS AS APPROVED BY THE ENGINEER. THE SILT FENCE SHALL BE LOCATED WITHIN THE R.O.W., EXCEPT AS NEEDED WHERE RIGHT-OF-ENTRY HAS BEEN ACQUIRED, OR AT LOCATIONS APPROVED BY THE ENGINEER.
- (2) ALTERNATIVES TO SILT FENCE MAY BE USED ONLY WITH APPROVAL OF THE ENGINEER.
- (3) FOR DETAILS OF TEMPORARY EROSION CONTROL, SEE STANDARD PLAN 806.10.

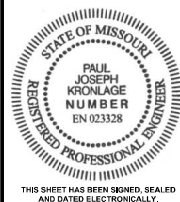
TEMPORARY EROSION CONTROL LEGEND

-  CURB INLET CHECK
-  ALTERNATE CHECK
-  ROCK DITCH CHECK
-  TEMPORARY BERM
-  SILT FENCE



TYPICAL EROSION CONTROL APPLICATIONS
FOR NEW CURB RAMP & SIDEWALK CONSTRUCTION

EROSION CONTROL SHEET
SHEET 1 OF 1



DATE PREPARED 8/2/2021	
ROUTE V/160	STATE MO
DISTRICT SW	SHEET NO. 17
COUNTY GREENE	
JOB NO. J7S3367D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



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JEFFERSON CITY, MO 65102
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EFFECTIVE 12-01-2017

SIGNS

902 SIGNAL SIGNS TABULATED ON D-37A SHEET

PIPE POST *

STRUCTURAL STEEL

POSTS *

BACKING BARS
2" X 3/8" BARS @ 2.55 LBS PER LIN FT

TOTAL

U CHANNEL POST

PERFORATED SQUARE STEEL TUBE POST

2 IN

2.5 IN

BREAK-AWAY ASSEMBLY

FOOTINGS

EMBD

BOLT DOWN

REMARKS AND OTHER REQUIRED ITEMS.

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
REGISTERED PROFESSIONAL ENGINEER
NUMBER EN 023328
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/2/2021

ROUTE
V/160

STATE
MO

DISTRICT
SW

SHEET NO.
19

COUNTY
GREENE

JOB NO.
J7S3367D

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

SIGN NO.

SIGN SIZE

STATION

HORZ CLEAR IF NOT STD

LOCATION

SIGN DTL. SHT. NO.

PIPE SIZE

POST NO.1

POST NO.2

LBS PER FT

TOTAL ITEM NO. 9031220

POST DES NO.

POST NO.1

POST NO.2

POST NO.3

LBS PER FT

TOTAL

NO. EACH

LGTH

TOTAL

TOTAL

ITEM NO. 9031210

ITEM NO. 9031250

POST NO.1

POST NO.2

TOTAL

ANCHOR 7 GA. ITEM NO. 9031270A

OMNI 7 GA. ITEM NO. 9031273

ANCHOR 12 GA. ITEM NO. 9031271

OMNI 12 GA. ITEM NO. 9031278

POST NO.1

POST NO.2

TOTAL

2.25" INSERT ITEM NO. 9031280

ANCHOR 7 GA. ITEM NO. 9031281

OMNI 7 GA. ITEM NO. 9031282

ITEM NO. 9031241

ITEM NO. 9031010

ITEM NO. 9031020

SUBTOTAL

TOTAL

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR PIPE AND STRUCTURAL STEEL POSTS

STANDARD SIGN ASSEMBLIES

SIGN NUMBER

STATION

LOCATION

W11-2 36"x36"

W16-7P 24"x12"

W16-9P 24"x12"

SIGN DESCRIPTION, SIZES & NUMBER OF EACH

STANDARD SIGN OR SPECIAL SIGN NUMBER

SIGN DETAIL SHEET NO.

NO. EACH

SIZE, TYPE & SQUARE FEET

SIZE

FLAT SHEET SH ITEM NO. 9035004A

FLAT SHEET FLUORESCENT SHF * ITEM NO. 9035069A

STRUCTURAL ST ITEM NO. 9035011A

STRUCTURAL FLUORESCENT STF * ITEM NO. 9035071A

SIGN SUMMARY

TOTAL

* ORANGE, YELLOW & YELLOW/GREEN

(1) RELOCATED SIGNS (903-99.02)

10 EACH

(1) EACH EXISTING SIGN ASSEMBLY TO BE RELOCATED IS CONSIDERED 1 UNIT AND SHALL BE PAID AS ONE (1) RELOCATED SIGNS PER EACH.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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EFK Moen, LLC 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

SIGNING PLAN SHEET 2 OF 2

D-29

