

# COLE COUNTY, MISSOURI CENTERTOWN STORMWATER IMPROVEMENTS

SECTION 25 - TOWNSHIP 45 - RANGE 14

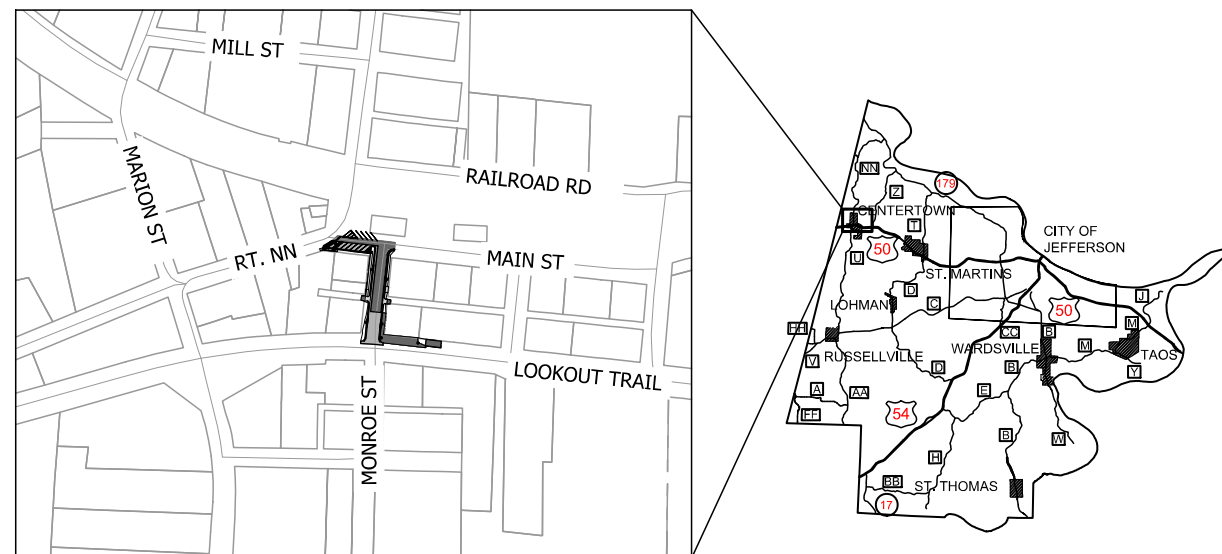
JANUARY 2020

**LEGEND**

- |  |                                  |                             |                                 |
|--|----------------------------------|-----------------------------|---------------------------------|
|  | BILLBOARD                        |                             | ROOF DRAIN                      |
|  | BORE HOLE or DRILL HOLE          |                             | ROOF DRAIN                      |
|  | LANDSCAPE BOULDER                |                             | CURB INLET                      |
|  | WELL                             |                             | SANITARY MANHOLE                |
|  | FLAG POLE                        |                             | CLEANOUT                        |
|  | SATELLITE DISH                   |                             | YARD HYDRANT                    |
|  | POST                             |                             | WATER SPRINKLER                 |
|  | MAILBOX                          |                             | WATER MANHOLE                   |
|  | TWO POLE SIGN                    |                             | WATER METER                     |
|  | ONE POLE SIGN                    |                             | WATER VALVE                     |
|  | PARKING METER                    |                             | FIRE HYDRANT                    |
|  | STOP SIGN                        |                             | LIGHT                           |
|  | GAS REGULATOR                    |                             | FLOOD LIGHT                     |
|  | GAS RISER                        |                             | LUMINARY (STREET LIGHT)         |
|  | GAS TEST STATION                 |                             | MANHOLE COVER                   |
|  | GAS METER                        |                             | MISCELLANEOUS TOPO ITEM         |
|  | GAS VALVE                        |                             | FINISH FLOOR                    |
|  | UTILITY POLE                     |                             | MIN. OPENING ELEV.              |
|  | GUY POLE                         |                             | STUMP                           |
|  | GUY ANCHOR                       |                             | SHRUB                           |
|  | TELEPHONE PEDESTAL               |                             | DECIDUOUS TREE                  |
|  | TELEPHONE MANHOLE                |                             | EVERGREEN SHRUB                 |
|  | CABLE TV PEDESTAL                |                             | EVERGREEN TREE                  |
|  | ELECTRIC MANHOLE                 |                             |                                 |
|  | ELECTRIC METER                   | <b>SURVEY MONUMENTATION</b> |                                 |
|  | TRANSFORMER/ELECTRIC PAD         |                             | BENCHMARK                       |
|  | AIR CONDITIONER                  |                             | TEMPORARY BENCHMARK             |
|  | HAND HOLE                        |                             | R/W MARKER                      |
|  | TRAFFIC SIGNAL                   |                             | FOUND SURVEY MONUMENT           |
|  | TRAFFIC SIGNAL BOX               |                             | SET SURVEY MONUMENT             |
|  | SIGNAL MANHOLE                   |                             | SET SURVEY MONUMENT IN CONCRETE |
|  | STORM MANHOLE                    |                             | CALCULATED SURVEY POINT         |
|  | AREA INLET                       |                             | CHISELED CROSS FOUND            |
|  | OVERHEAD ELECTRIC                |                             | CHISELED CROSS SET              |
|  | UNDERGROUND TELEPHONE            |                             |                                 |
|  | UNDERGROUND CABLE AND TELEVISION |                             |                                 |
|  | GAS LINE                         |                             |                                 |
|  | SANITARY SEWER LINE              |                             |                                 |
|  | WATER LINE                       |                             |                                 |



Project Location Map



**Ameren Electric**  
Chris Bruemmer  
PO Box 1558  
Jefferson City, MO 65102  
Cbruemmer@ameren.com  
573-681-7512

**Ameren Gas**  
Brian Robinson  
PO Box 1558  
Jefferson City, MO 65102  
B.Robinson@ameren.com  
573-876-3030

**UTILITY CONTACTS:**

**Century Link**  
Allen Groner (573)681-2503  
Tonjia Baldwin  
3546 North Ten Mile Drive  
Jefferson City, MO 65109  
Allen.Groner@centurylink.com  
Tonjia.Baldwin@centurylink.com

**CO-MO Connect**  
Mark Parshall  
PO Box 220  
Tipton, MO 65081  
mparshall@co-mo.net  
573-832-9027

**Show-Me Technologies**  
Brad McGoon  
PO Box D  
Marshfield, MO 65706  
dmcgoon@showmepower.com  
417-859-2615

**Village Water Operator**  
Derek McCubbin  
1227 Broadway, PO Box 175  
Centertown, MO 65203  
derek.k.mccubbin@gmail.com  
573-286-2727

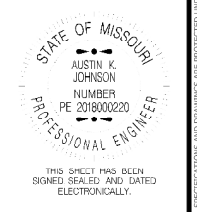


**Sheet Index Table**

SHEET NUMBER	SHEET TITLE
1	TITLE SHEET
2	GENERAL NOTES
3	TYPICAL SECTIONS
4	BASE BID PLAN SHEET
5	BASE BID PROFILES
6	STORM SEWER PROFILES
7	DRIVEWAY PROFILES
8	PAVEMENT MARKINGS AND SIGNING
9	EROSION CONTROL
10	TRAFFIC CONTROL
11	ADD ALTERNATE A
12	ADD ALTERNATE B

**Bartlett & West**  
1719 SOUTHBRIDGE DR., SUITE 100 - JEFFERSON CITY, MO 65109-4000  
PHONE 573.634.3181  
MISSOURI CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING  
www.bartlettandwest.com

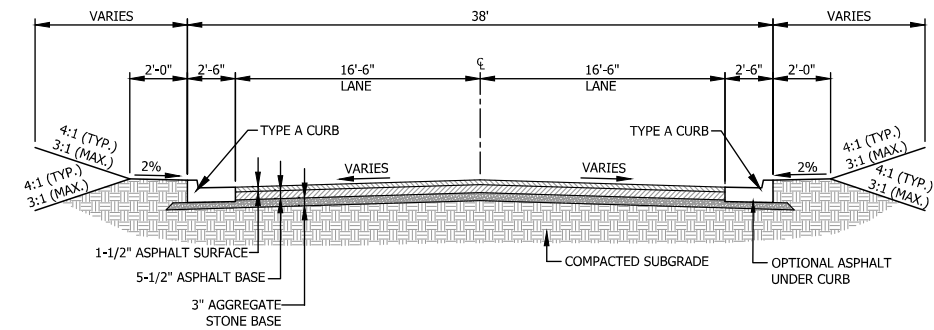
**TITLE SHEET**  
CENTERTOWN STORMWATER IMPROVEMENTS  
CENTERTOWN, COLE COUNTY, MISSOURI



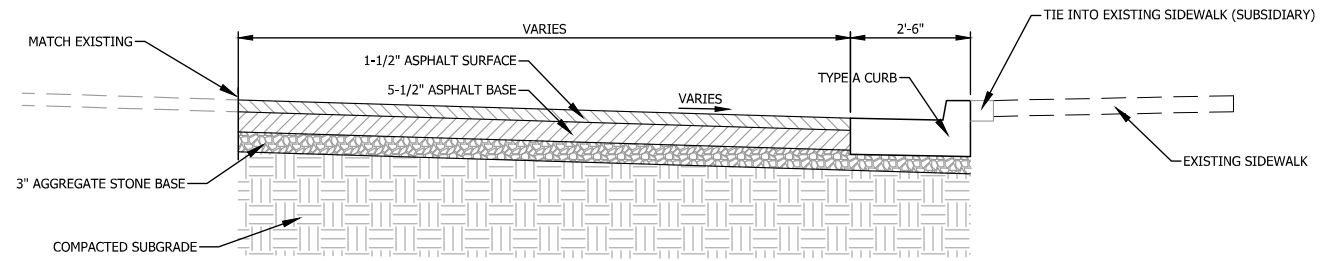
SEALING INFORMATION

DESIGNED BY:	DCF
DRAWN BY:	EMR
APPROVED BY:	AKJ
DESIGN PROJ.:	19492.005
DATE:	JANUARY 2020
DRAWING NO.:	
SHEET NO.:	1 of 12

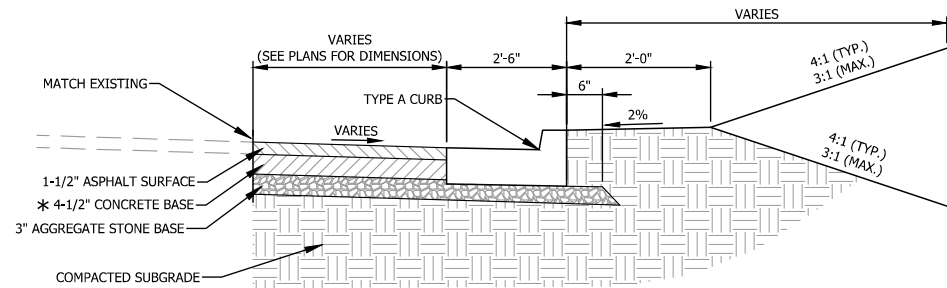




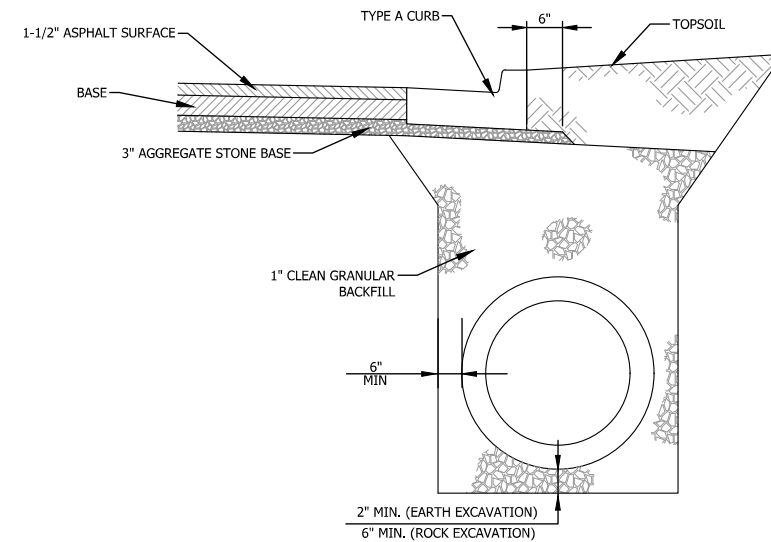
TYPICAL SECTION FULL DEPTH REPLACEMENT - MONROE STREET



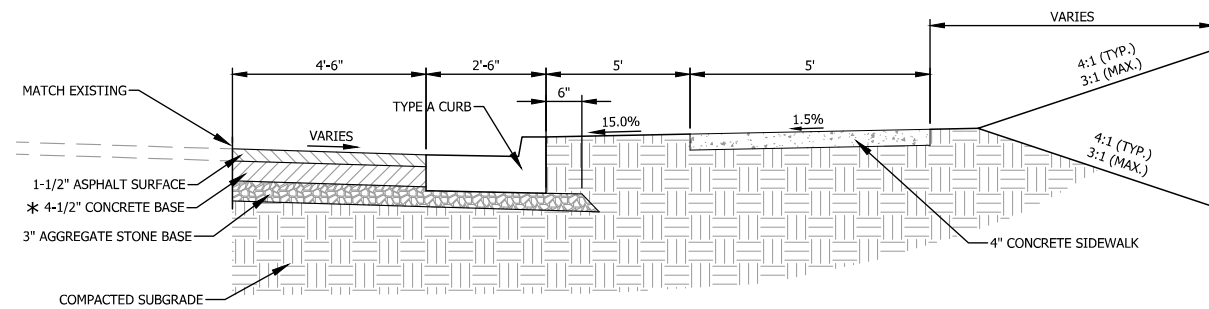
TYPICAL CURB REPLACEMENT - MAIN STREET



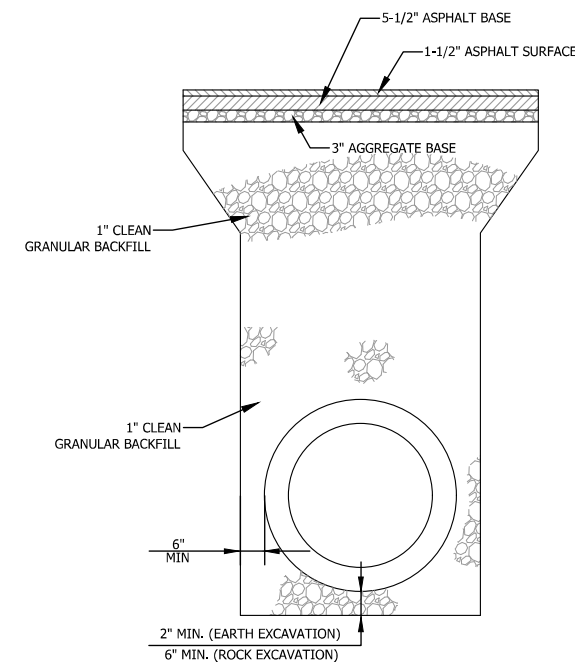
TYPICAL CURB REPLACEMENT - MONROE STREET



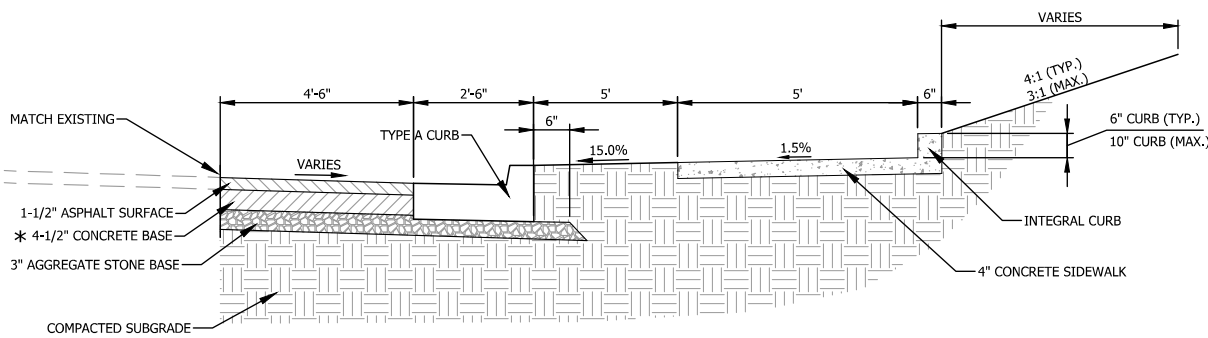
TRENCH DETAIL FOR CURB LINE



TYPICAL CURB REPLACEMENT (WITH SIDEWALK) - MONROE STREET



TRENCH DETAIL FOR ROAD CROSSING



TYPICAL CURB REPLACEMENT (WITH INTEGRAL CURB ON SIDEWALK) - MONROE STREET

\* CONCRETE BASE SHALL BE REQUIRED IN AREAS OF FULL DEPTH PAVEMENT REPLACEMENT WITH A WIDTH PERPENDICULAR TO THE CURB OF LESS THAN 8 FT. IF WIDTH IS 8 FT OR GREATER, ASPHALT BASE CAN BE SUBSTITUTED WITH APPROVAL OF THE ENGINEER.

**Bartlett & West**  
 1719 SOUTHRIDGE DR., SUITE 100 - JEFFERSON CITY, MO 65109-4000  
 PHONE 573.634.3181  
 MISSOURI CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING  
 WWW.BARTLETTANDWEST.COM

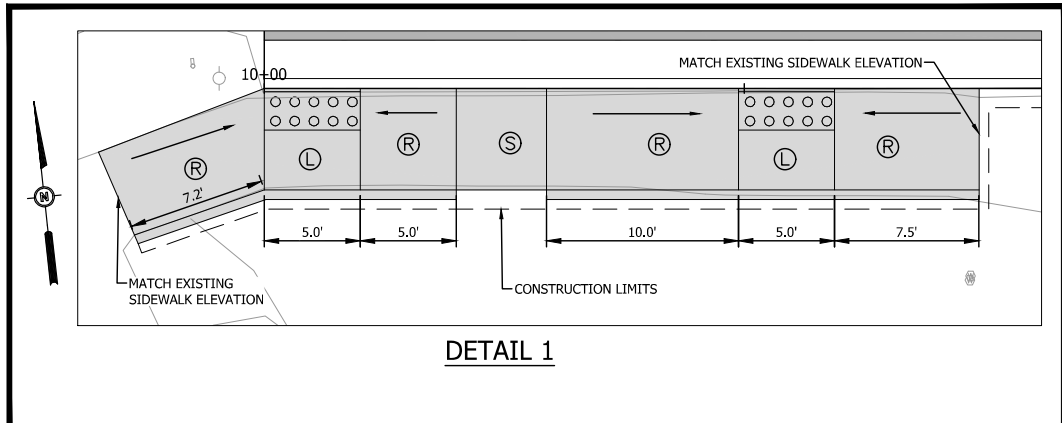
**TYPICAL SECTIONS**  
 CENTERTOWN STORMWATER IMPROVEMENTS  
 CENTERTOWN, COLE COUNTY, MISSOURI

STATE OF MISSOURI  
 AUSTIN K. JOHNSON  
 NUMBER PE 2018000220  
 PROFESSIONAL ENGINEER

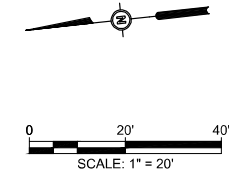
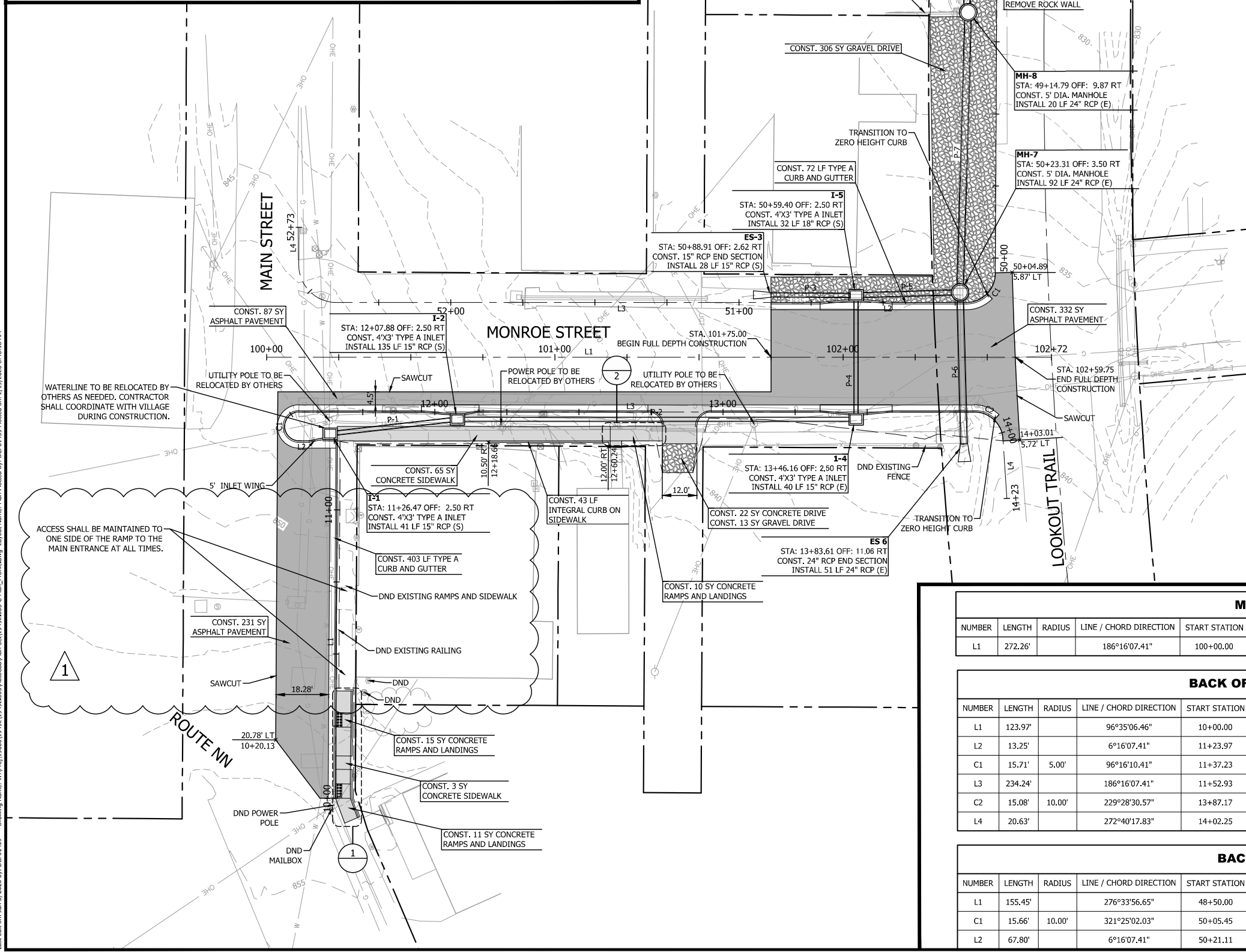
THIS SHEET HAS BEEN  
 SIGNED SEALED AND DATED  
 ELECTRONICALLY.

SEALED DATE:	01-24-2020
DESIGNED BY:	DCF
DRAWN BY:	EMR
APPROVED BY:	AKJ
DESIGN PROJ.:	19492.005
DATE:	JANUARY 2020
DRAWING NO.:	
SHEET NO.:	3 of 12



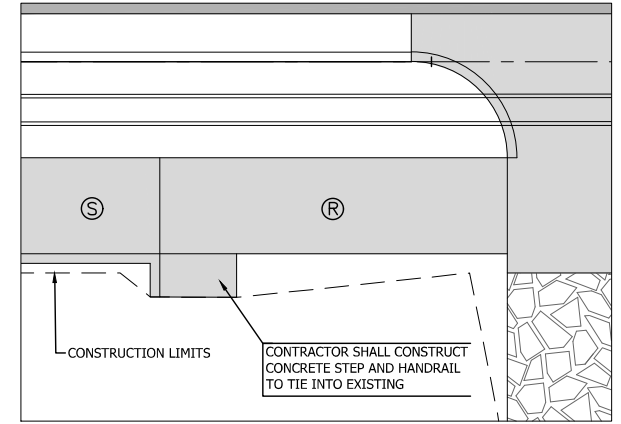


DETAIL 1



**LEGEND**

- FULL DEPTH PAVEMENT
- CONCRETE SIDEWALK
- CONCRETE DRIVEWAY
- GRAVEL DRIVEWAY
- TYPE 2 RIPRAP
- SIDEWALK
- LANDING
- RAMP



DETAIL 2

**MONROE STREET**

NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION	START STATION	START SEGMENT	END STATION	END SEGMENT	RADIUS POINT
L1	272.26'		186°16'07.41"	100+00.00	N 1014450.9088, E1665773.9586	102+72.26	N 1014180.2775, E 1665744.2301	

**BACK OF CURB - MAIN & MONROE (WEST)**

NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION	START STATION	START SEGMENT	END STATION	END SEGMENT	RADIUS POINT
L1	123.97'		96°35'06.46"	10+00.00	N 1014443.9030, E1665619.2965	11+23.97	N 1014429.6857, E 1665742.4528	
L2	13.25'		6°16'07.41"	11+23.97	N 1014429.6857, E1665742.4528	11+37.23	N 1014442.8581, E 1665743.8998	
C1	15.71'	5.00'	96°16'10.41"	11+37.23	N 1014442.8581, E 1665743.8998	11+52.93	N 1014441.7661, E 1665753.8400	N 1014442.3120, E 1665748.8699
L3	234.24'		186°16'07.41"	11+52.93	N 1014441.7661, E1665753.8400	13+87.17	N 1014208.9316, E 1665728.2635	
C2	15.08'	10.00'	229°28'30.57"	13+87.17	N 1014208.9316, E 1665728.2635	14+02.25	N 1014200.0344, E 1665717.8554	N 1014210.0235, E 1665718.2333
L4	20.63'		272°40'17.83"	14+02.25	N 1014200.0344, E1665717.8554	14+22.88	N 1014200.9959, E 1665697.2509	

**BACK OF CURB - MONROE (EAST)**

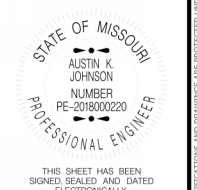
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION	START STATION	START SEGMENT	END STATION	END SEGMENT	RADIUS POINT
L1	155.45'		276°33'56.65"	48+50.00	N 1014178.6838, E1665929.5616	50+05.45	N 1014196.4586, E 1665775.1299	
C1	15.66'	10.00'	321°25'02.03"	50+05.45	N 1014196.4586, E 1665775.1299	50+21.11	N 1014207.4849, E 1665766.3331	N 1014206.3930, E 1665776.2733
L2	67.80'		6°16'07.41"	50+21.11	N 1014207.4849, E1665766.3331	50+88.91	N 1014274.8805, E 1665773.7364	

Drawing Name: W:\Proj\19000\19492\19492\005\AutoCad\Plan\_Sheet\19492\_005-C-Plan\_Profile.dwg Layout Name: Plan Plotted on: 2/19/2020 8:46:18 AM  
Last edit on: Jan 3, 2020 by: DCF01439

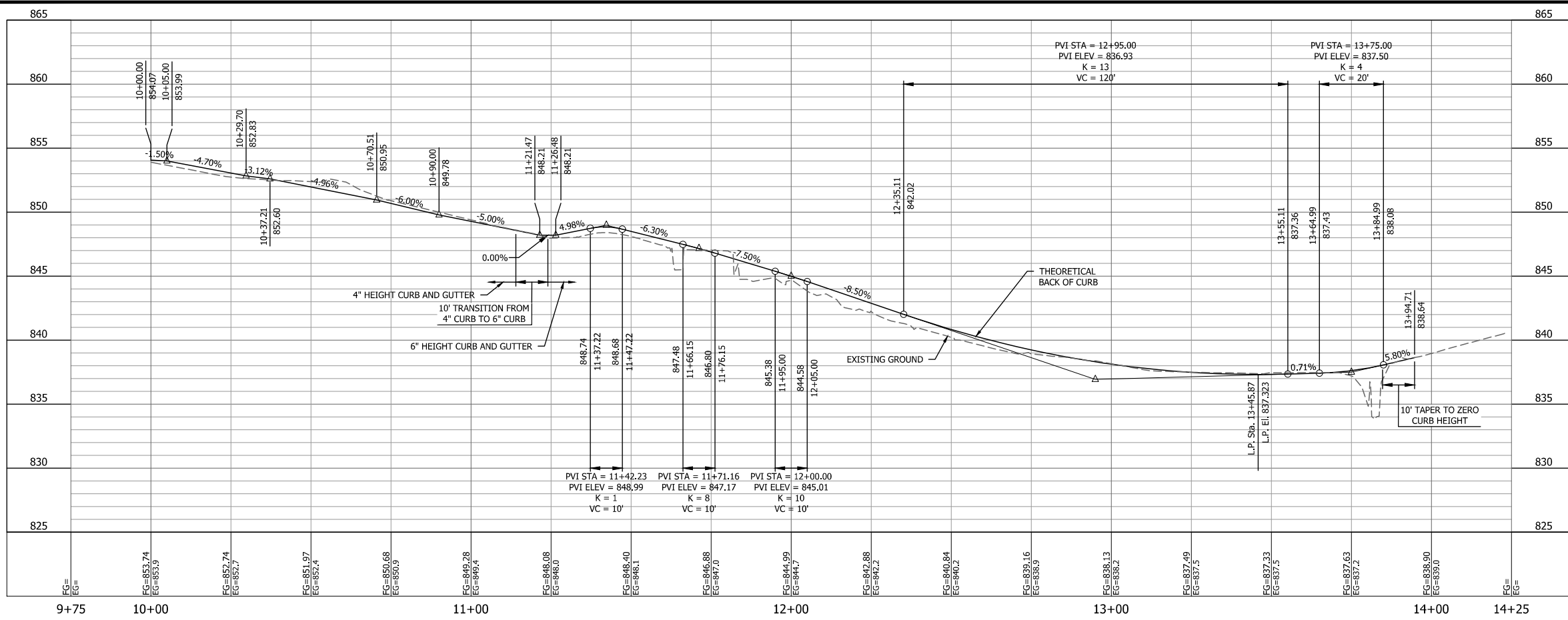
#	DATE	DESCRIPTION
1	02-19-2020	UPDATED PROPERTY ACCESS NOTES

**Bartlett & West**  
 1719 SOUTHBRIDGE DR., SUITE 100 - JEFFERSON CITY, MO 65109-4000  
 PHONE 573.634.3181  
 MISSOURI CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING  
 WWW.BARTLETTWEST.COM

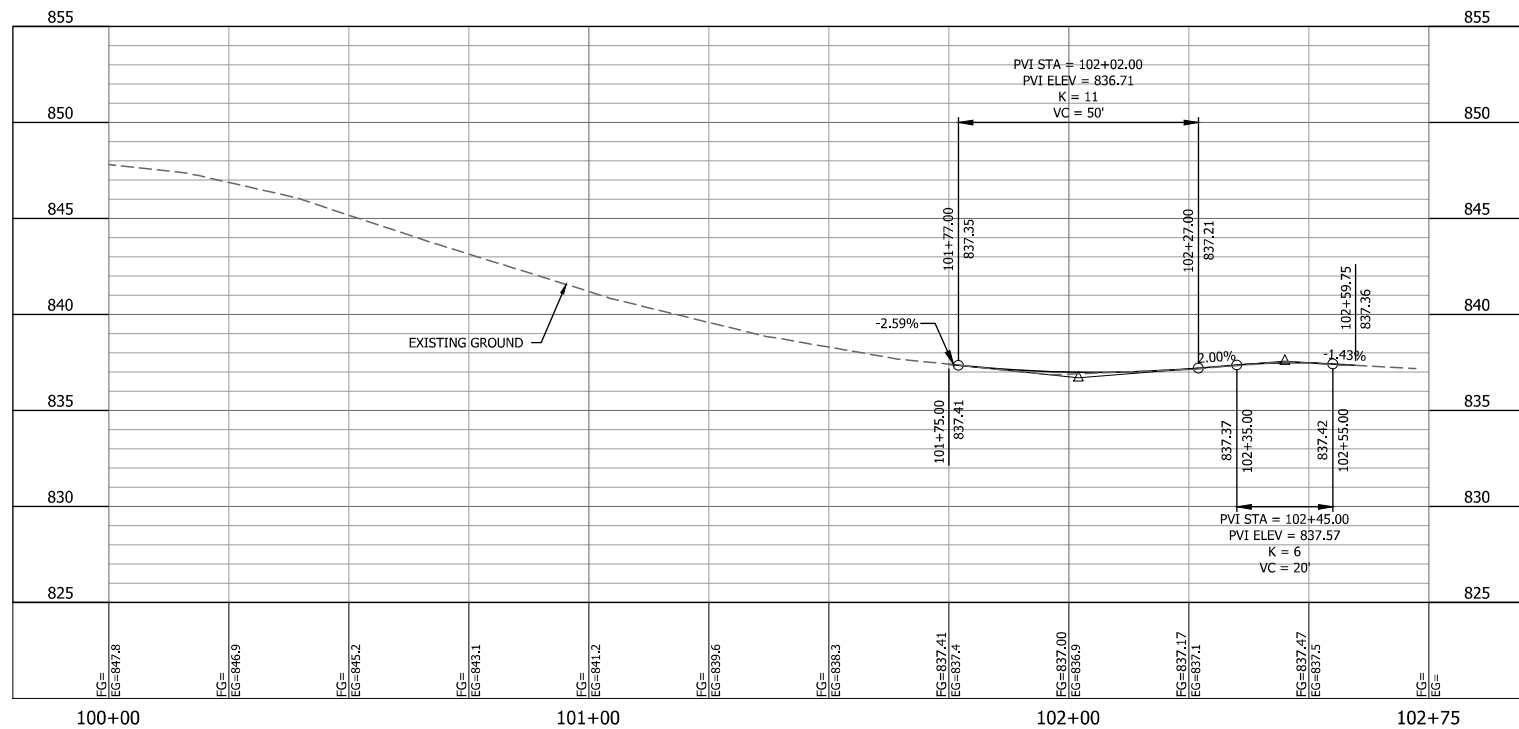
**BASE BID PLAN SHEET**  
 CENTERTOWN STORMWATER IMPROVEMENTS  
 CENTERTOWN, COLE COUNTY, MISSOURI



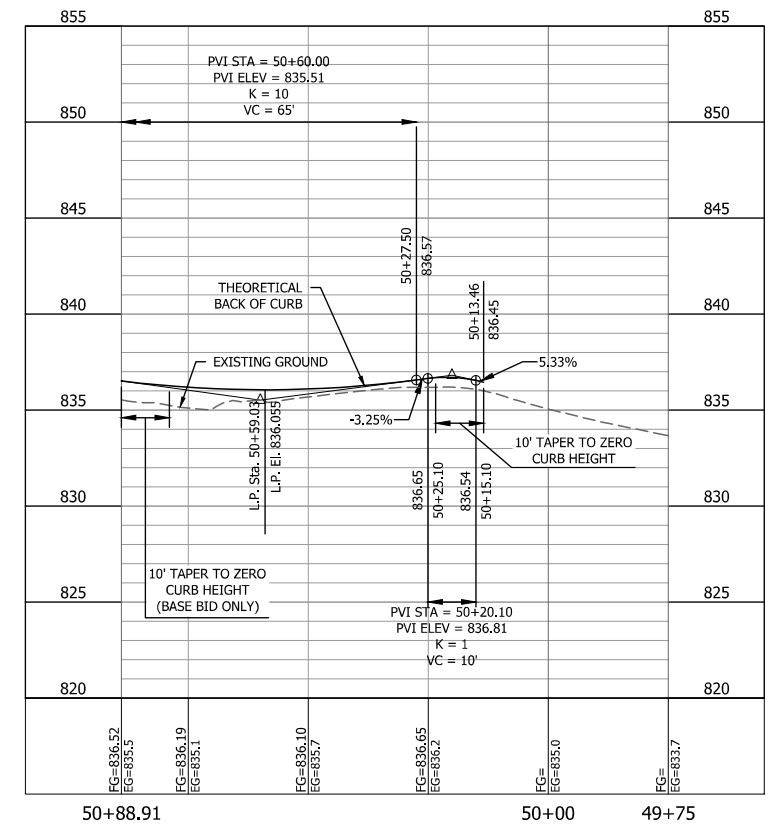
SEAL DATE: 02-19-2020  
 DESIGNED BY: DCF  
 DRAWN BY: EMR  
 APPROVED BY: AKJ  
 DESIGN PROJ: 19492\_005  
 DATE: FEBRUARY 2020  
 DRAWING NO:  
 SHEET NO: 4 of 12



THEORETICAL BACK OF CURB - MAIN STREET AND MONROE STREET (WEST)



CENTERLINE - MONROE STREET

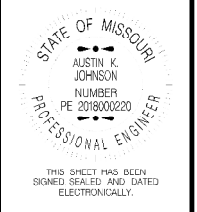


THEORETICAL BACK OF CURB - MONROE STREET (EAST)

#	DATE	DESCRIPTION

**Bartlett & West**  
 1719 SOUTHBRIDGE DR., SUITE 100 - JEFFERSON CITY, MO 65109-0009  
 PHONE 573.634.3181  
 MISSOURI CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING  
 WWW.BARTLETTWEST.COM

**BASE BID PROFILES**  
 CENTERTOWN STORMWATER IMPROVEMENTS  
 CENTERTOWN, COLE COUNTY, MISSOURI



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

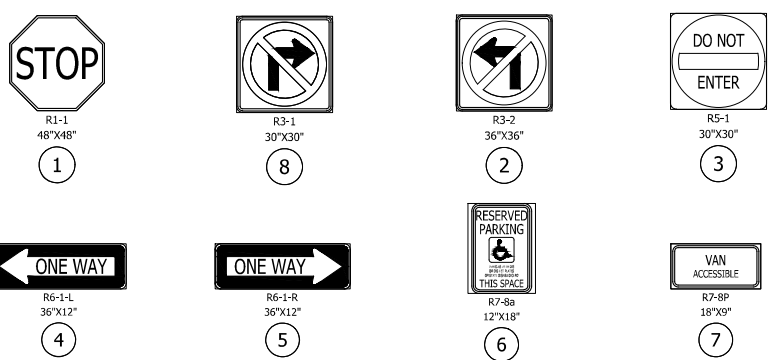
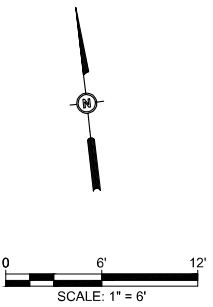
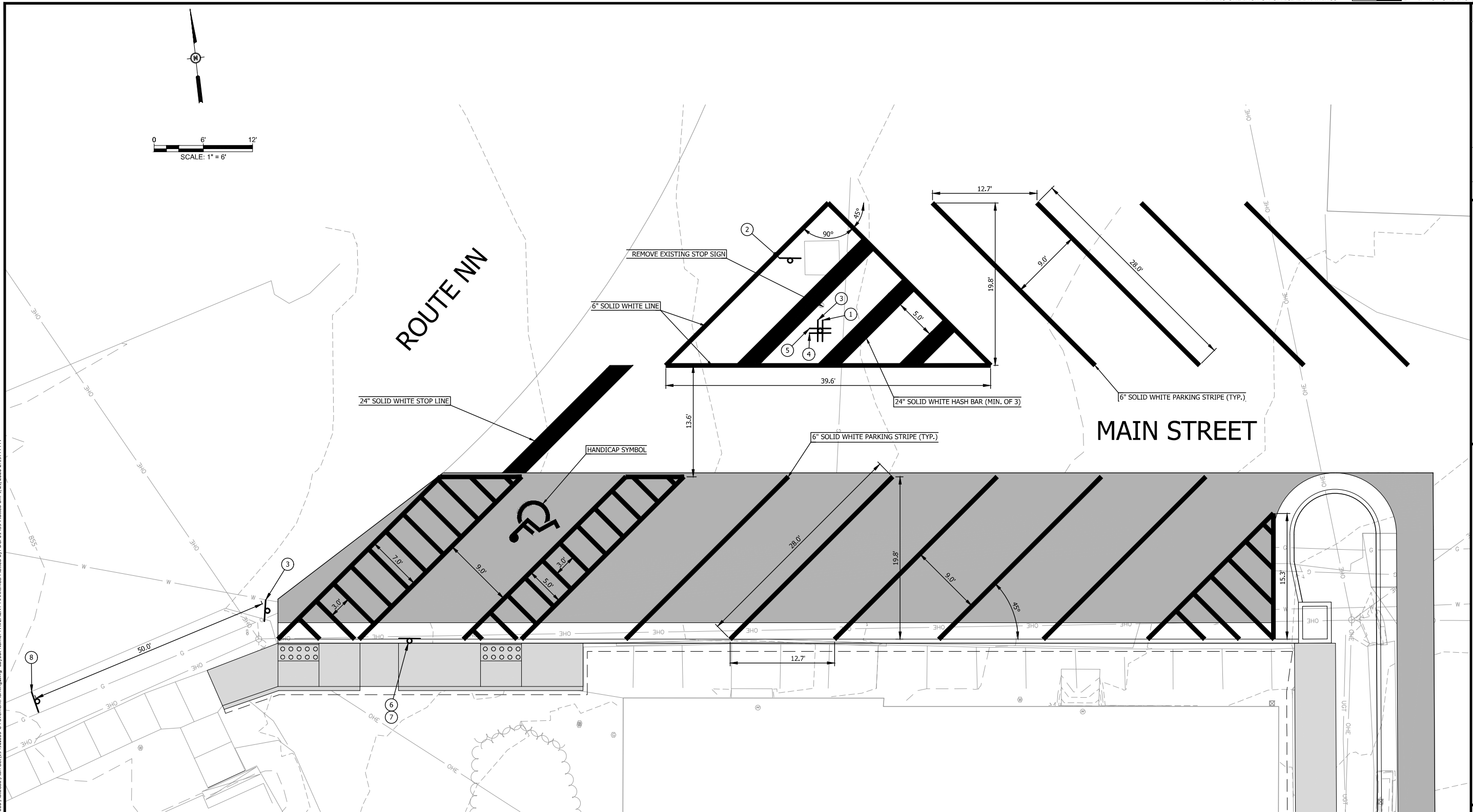
SEALED DATE:	01-24-2020
DESIGNED BY:	DCF
DRAWN BY:	EMR
APPROVED BY:	AKJ
DESIGN PROJ.:	19492.005
DATE:	JANUARY 2020
DRAWING NO.:	
SHEET NO.:	5 of 12

Last edit on: Jan 3, 2020 by: DCF01439 Drawing Name: W:\Proj\19000\19492\19492.005\AutoCAD\Plan Set\19492.005-C-Plan\_Profile.dwg Layout Name: Profile Plotted By: DCF01439 Plotted on: 1/21/2020 2:17:13 PM

ALL RIGHTS RESERVED. ALL BARTLETT & WEST PLANS, SPECIFICATIONS AND DRAWINGS ARE PROTECTED UNDER COPYRIGHT LAW, AND NO PART MAY BE COPIED, REPRODUCED, DISPLAYED PUBLICLY, USED TO CREATE DERIVATIVES, DISTRIBUTED, STORED IN A RETRIEVAL SYSTEM OR TRANSMITTED IN ANY FORM BY ANY MEANS WITHOUT PRIOR WRITTEN PERMISSION OF BARTLETT & WEST.







	MUTCD CODE	DESCRIPTION	SIZE	QTY (EA)
1	R1-1	STOP	48" x 48"	1
8	R3-1	NO RIGHT TURN	30" x 30"	1
2	R3-2	NO LEFT TURN	36" x 36"	1
3	R5-1	DO NOT ENTER	30" x 30"	2
4	R6-1-L	ONE WAY (LEFT)	36" x 12"	1
5	R6-1-R	ONE WAY (RIGHT)	36" x 12"	1
6	R7-8a	RESERVED PARKING	12" x 18"	1
7	R7-8p	VAN ACCESSIBLE (PLAQUE)	18" x 9"	1

**NOTE:**  
ALL CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED BY THE CONTRACTOR AT NO DIRECT PAY

#	DATE	DESCRIPTION

**Bartlett & West**  
 1719 SOUTHRIDGE DR., SUITE 100 - JEFFERSON CITY, MO 65109-4000  
 PHONE 573.634.3181  
 MISSOURI CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING  
 WWW.BARTLETTANDWEST.COM

**PAVEMENT MARKINGS AND SIGNING**  
 CENTERTOWN STORMWATER IMPROVEMENTS  
 CENTERTOWN, COLE COUNTY, MISSOURI

SEALED DATE:	01-24-2020
DESIGNED BY:	DCF
DRAWN BY:	EMR
APPROVED BY:	AKJ
DESIGN PROJ.:	19492.005
DATE:	JANUARY 2020
DRAWING NO.:	
SHEET NO.:	8 of 12

Last edit on: Aug 5, 2019 by: DCF01439 Drawing Name: W:\Proj\19000\19492\005\AutoCAD\Plan Set\19492.005-C-PavementMarking.dwg Layout Name: PAVEMENT MARKINGS Plotted By: DCF01439 Plotted on: 1/21/2020 2:19:44 PM



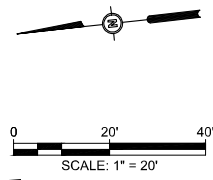
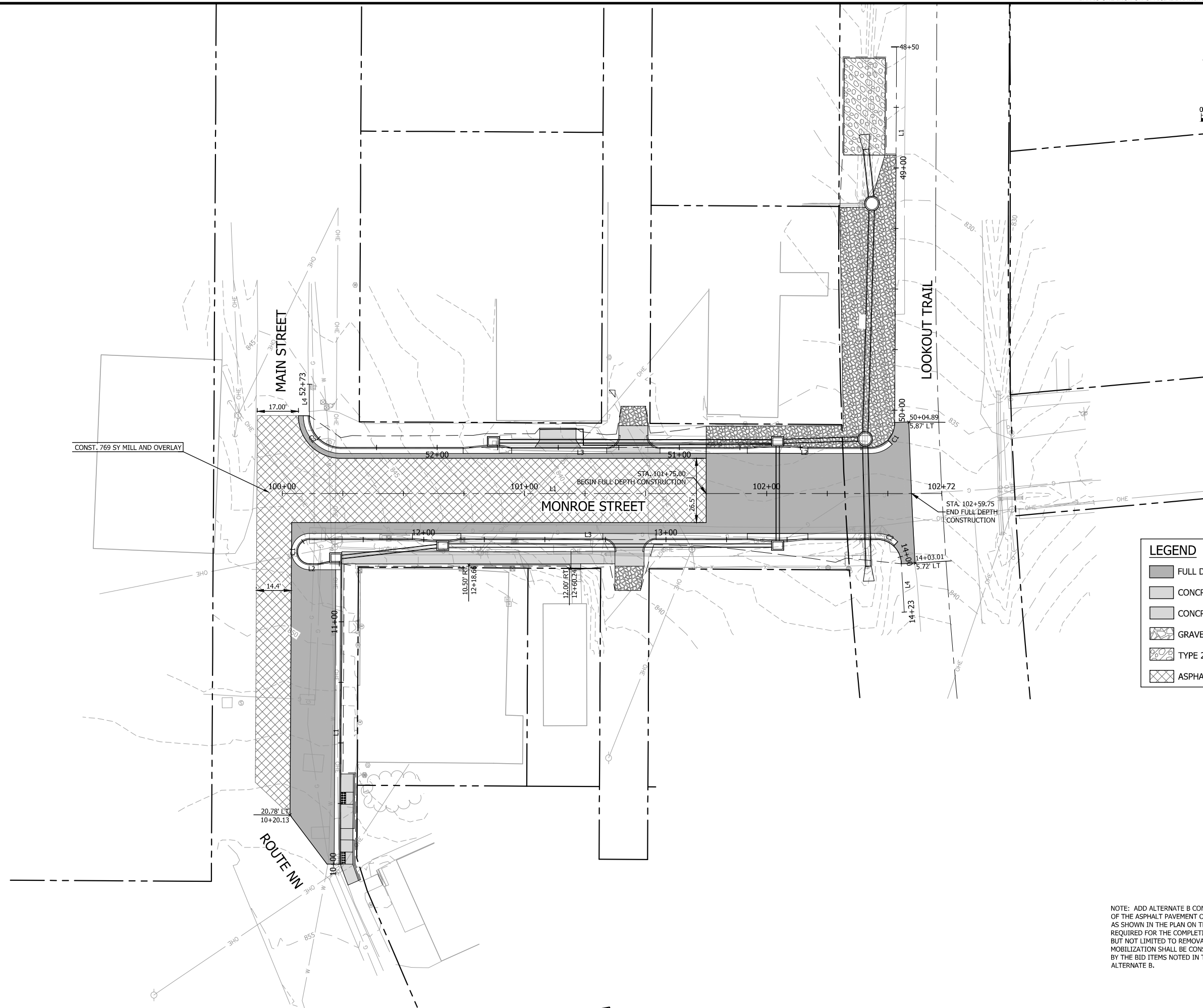












**LEGEND**

	FULL DEPTH PAVEMENT
	CONCRETE SIDEWALK
	CONCRETE DRIVEWAY
	GRAVEL DRIVEWAY
	TYPE 2 RIPRAP
	ASPHALT MILLING

NOTE: ADD ALTERNATE B CONSISTS OF A MILL AND OVERLAY OF THE ASPHALT PAVEMENT ON MONROE AND MAIN STREETS AS SHOWN IN THE PLAN ON THIS SHEET. ALL EFFORTS REQUIRED FOR THE COMPLETION OF THIS WORK INCLUDING BUT NOT LIMITED TO REMOVALS, TRAFFIC CONTROL AND MOBILIZATION SHALL BE CONSIDERED COMPLETELY COVERED BY THE BID ITEMS NOTED IN THE BID FORM UNDER ADD ALTERNATE B.

Last edit on: Jan 3, 2020 by: DCF01439 Drawing Name: W:\Proj\19992\19992\AutoCad\Plan Set\19492.005-C-Plan\_Profile.dwg Layout Name: Add Alternate B Plotted by: DCF01439 Plotted on: 1/21/2020 2:21:11 PM

#	DATE	DESCRIPTION

**Bartlett & West**  
 1719 SOUTHRIDGE DR., SUITE 100 - JEFFERSON CITY, MO 65109-4000  
 PHONE 573.634.3181  
 MISSOURI CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING  
 WWW.BARTLETTANDWEST.COM

**ADD ALTERNATE B**  
 CENTERTOWN STORMWATER IMPROVEMENTS  
 CENTERTOWN, COLE COUNTY, MISSOURI

SEALED DATE:	01-24-2020
DESIGNED BY:	DCF
DRAWN BY:	EMR
APPROVED BY:	AKJ
DESIGN PROJ:	19492.005
DATE:	JANUARY 2020
DRAWING NO:	
SHEET NO:	12 of 12

ALL RIGHTS RESERVED. ALL BARTLETT & WEST PLANS, SPECIFICATIONS AND DRAWINGS ARE PROTECTED UNDER COPYRIGHT LAW, AND NO PART MAY BE COPIED, REPRODUCED, DISTRIBUTED PUBLICLY, USED TO CREATE DERIVATIVE WORKS, OR TRANSMITTED IN ANY FORM BY ANY MEANS WITHOUT PRIOR WRITTEN PERMISSION OF BARTLETT & WEST.