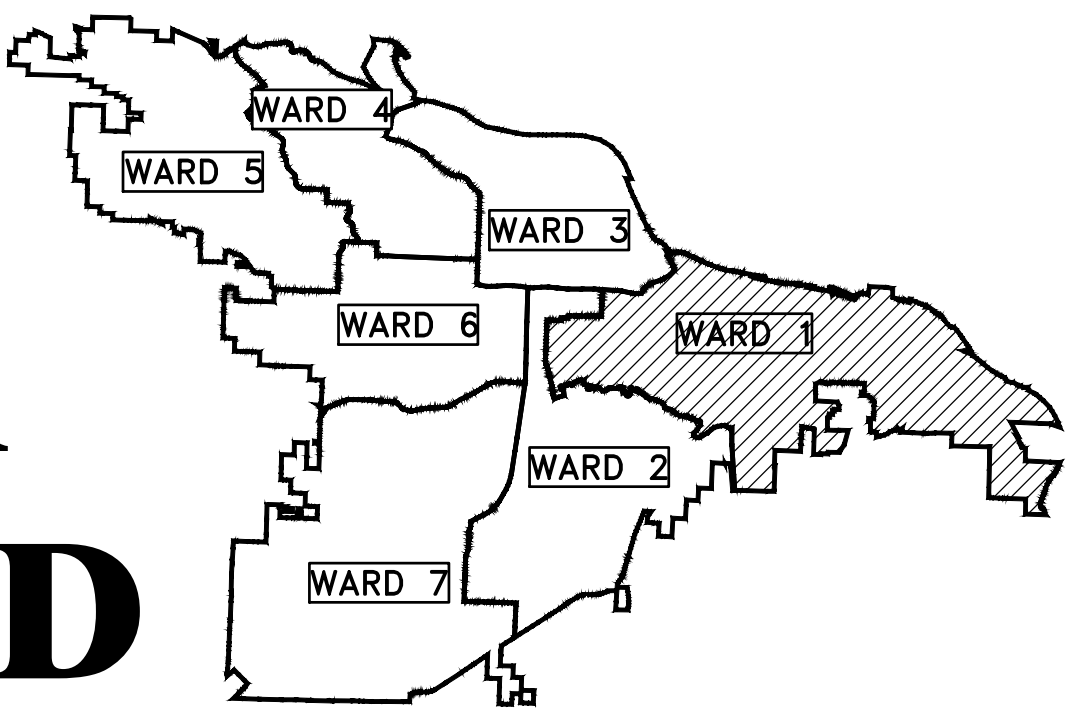


CLR PROJECT #1-17-ST-56B

13TH STREET BRIDGE REPAIR

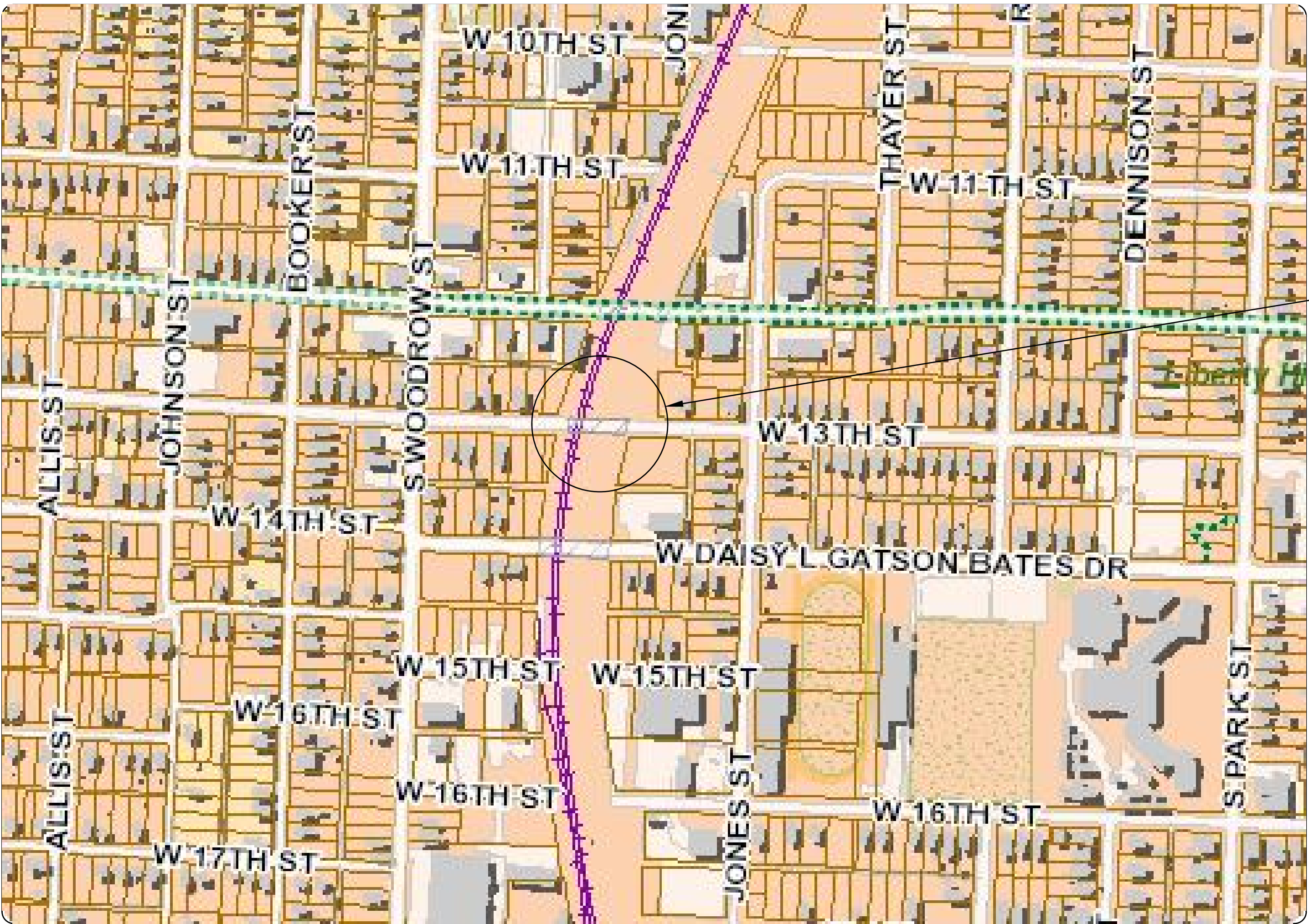
OVER UNION PACIFIC RAILROAD

LITTLE ROCK, AR



PROJECT LOCATION – WARD 1

SHEET NO.	TITLE
S1	COVER SHEET
S2	QUANTITIES & GENERAL NOTES
S3	BRIDGE LAYOUT
S4	BORING LOGS
S5	BORING LOGS
S6	TYPICAL SECTIONS
S7	REINFORCED CONCRETE SLAB DETAILS
S8	REINFORCED CONCRETE SLAB DETAILS
S9	REINFORCED CONCRETE SLAB DETAILS
S10	EXPANSION JOINT DETAILS
S11	APPROACH GUTTER DETAILS
S12	END BENT 1 DETAILS
S13	MISCELLANEOUS DETAILS
S14	MAINTENANCE OF TRAFFIC



PROJECT LOCATION



2019-2021
BOND PROGRAM

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 WEST MARKHAM STREET
LITTLE ROCK, ARKANSAS 72201



Michael Baker
INTERNATIONAL
1400 W. MARKHAM ST., SUITE 204
LITTLE ROCK, AR 72201
501-907-6223

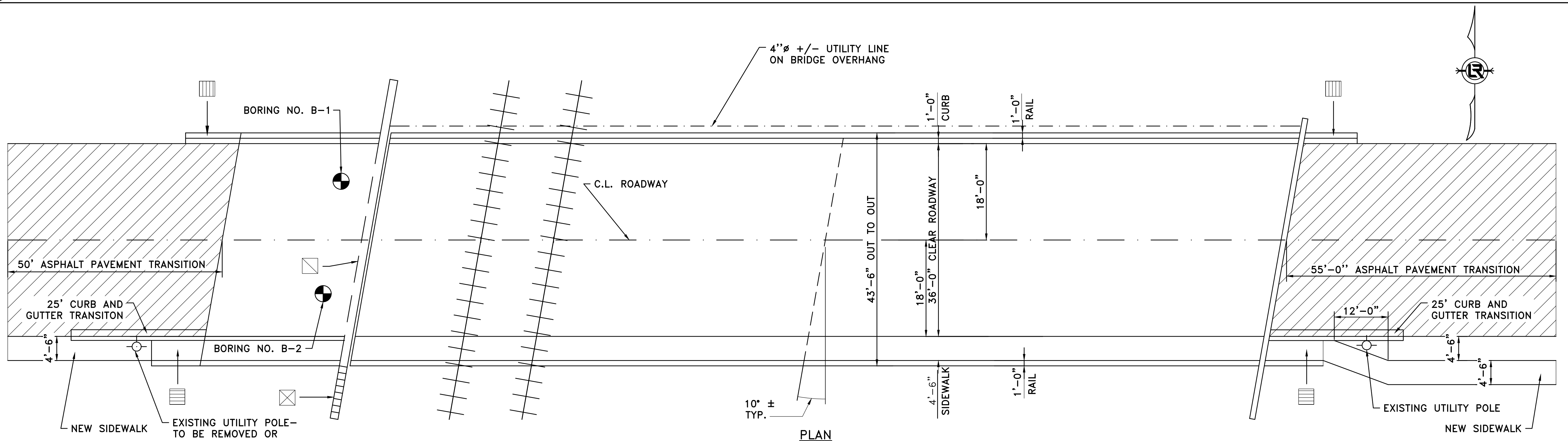
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
13TH. ST. BRIDGE REPAIR
COVER SHEET

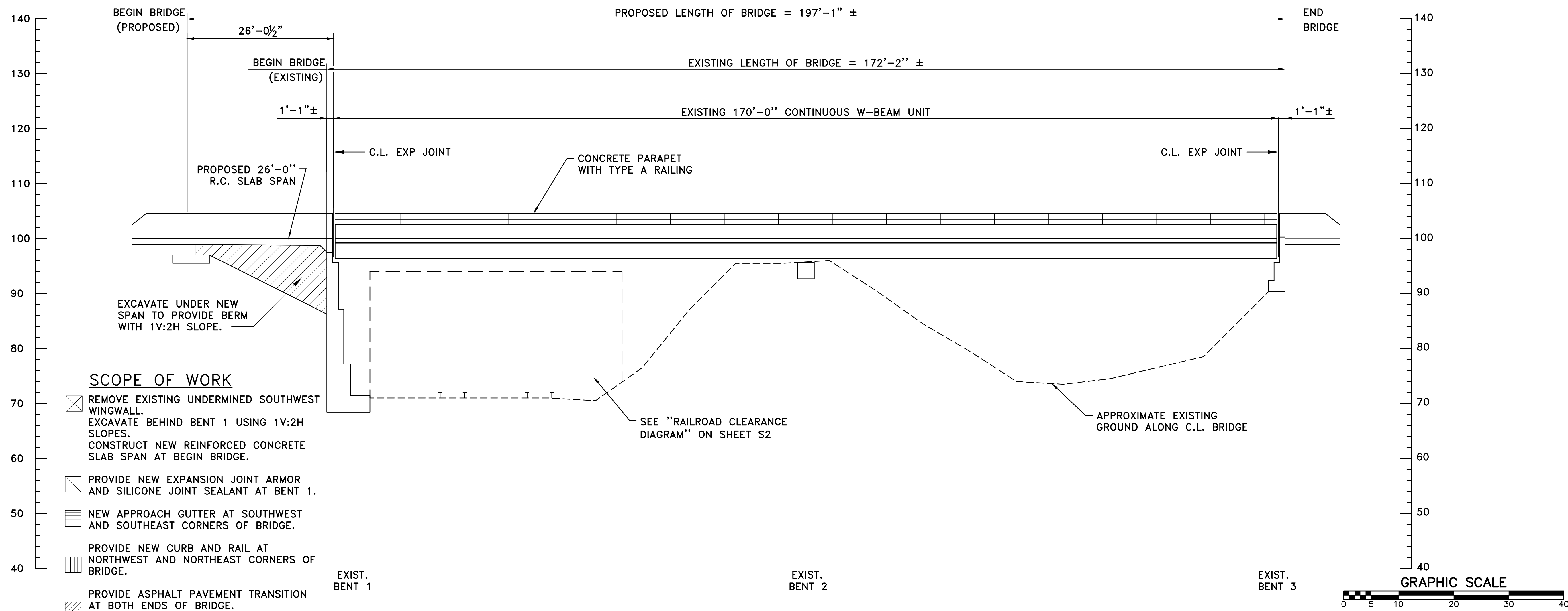
DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

90% COMPLETE

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DESIGNED SCR
CHECKED SFH
DATE 09/2019
SCALE N.T.S.
PROJECT NO. CLR #1-17-ST-56B
SHEET NO. S1



PLAN



ELEVATION

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS

13TH ST. BRIDGE REPAIR

BRIDGE LAYOUT

DEPARTMENT OF PUBLIC WORKS

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PROJECT NO.

CLR #1-17-ST-56B

SHEET NO.

S3

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
13TH ST. BRIDGE REPAIR

BORING LOGS



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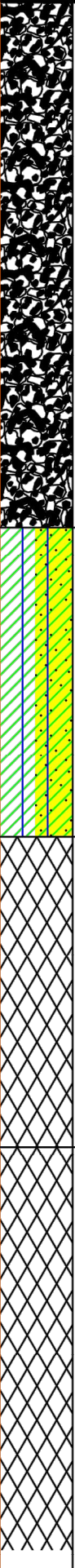
DATE
09/2019

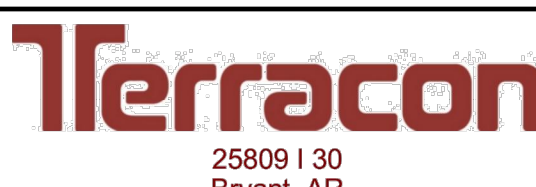
SCALE
N.T.S

PROJECT NO.
CLR #1-17-ST-56B

SHEET NO.

S4

BORING LOG NO. B-1												Page 1 of 2			
PROJECT: 13th Street Railroad Bridge						CLIENT: Michael Baker International, LLC Little Rock, Arkansas									
SITE: 13th Street Little Rock, Arkansas															
GRAPHIC LOG	LOCATION See Exploration Plan Latitude: 34.7389° Longitude: -92.3044°					DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS		PERCENT FINES	
	DEPTH											LL-PL-PI			
	FILL - CLAYEY SAND (SC) , brown and reddish-brown					5			5-3-3 N=6	9		38-15-23	44		
									3-2-4 N=6	12					
									3-3-4 N=7	14					
									3-3-4 N=7	16					
	SILTY CLAY WITH SAND (CL-ML) , gray, medium stiff					10			4-2-4 N=6	21		23-18-5	75		
	CLAYEY SHALE , reddish-brown and gray, soft rock					15			5-9-11 N=20						
	HIGHLY WEATHERED SHALE , gray and reddish-brown, soft rock					20			10-12-16 N=28						
					25			15-23-33 N=56							
Stratification lines are approximate. In-situ, the transition may be gradual.														Hammer Type: Automatic	
Advancement Method: 0 to 30 feet: Solid-stem auger						See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).						Notes:			
Abandonment Method: Boring backfilled with Auger Cuttings Surface capped with concrete						See Supporting Information for explanation of symbols and abbreviations.									
WATER LEVEL OBSERVATIONS <i>No free water observed</i>						 25809 I 30 Bryant, AR						Boring Started: 03-06-2019			
												Boring Completed: 03-06-2019			
												Drill Rig: CME 679			
						Project No.: 35185101									

BORING LOG NO. B-1												Page 2 of 2			
PROJECT: 13th Street Railroad Bridge						CLIENT: Michael Baker International, LLC Little Rock, Arkansas									
SITE: 13th Street Little Rock, Arkansas															
GRAPHIC LOG	LOCATION See Exploration Plan Latitude: 34.7389° Longitude: -92.3044°					DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS	PERCENT FINES		
	DEPTH											LL-PL-PI			
	HIGHLY WEATHERED SHALE , gray and reddish-brown, soft rock (continued)					30			15-15-16 N=31						
	30.0														
Boring Terminated at 30 Feet															
Stratification lines are approximate. In-situ, the transition may be gradual.														Hammer Type: Automatic	
Advancement Method: 0 to 30 feet: Solid-stem auger						See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).						Notes:			
Abandonment Method: Boring backfilled with Auger Cuttings Surface capped with concrete						See Supporting Information for explanation of symbols and abbreviations.									
WATER LEVEL OBSERVATIONS												Boring Started: 03-06-2019		Boring Completed: 03-06-2019	
No free water observed												Drill Rig: CME 679		Driller: JB	
						Project No.: 35185101									

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL 35185101 13TH STREET RR BR.GPJ MODEL LAYER.GPJ 3/18/19

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL 35185101 13TH STREET RR BR GPJ MODELAYER GPJ 3/18/19

BORING LOG NO. B-2										Page 1 of 1	
PROJECT: 13th Street Railroad Bridge				CLIENT: Michael Baker International, LLC Little Rock, Arkansas							
SITE: 13th Street Little Rock, Arkansas											
GRAPHIC LOG	LOCATION See Exploration Plan Latitude: 34.7389° Longitude: -92.304°			DEPTH (ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS	PERCENT FINES
	DEPTH									LL-PL-PI	
	FILL - CLAYEY SAND (SC), reddish-brown, gray and brown			5			8-7-4 N=11	3		40-13-27	47
							3-2-3 N=5	9			
							3-3-4 N=7	16			
							3-3-5 N=8	16			
							2-2-3 N=5	18			
13.5	LEAN CLAY (CL), with rock fragments, brown and gray, hard			15			17-25-14 N=39	11			
15.0	Boring Terminated at 15 Feet										
Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic											
Advancement Method: 0 to 15 feet: Solid-stem auger				See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).				Notes:			
Abandonment Method: Boring backfilled with Auger Cuttings Surface capped with concrete				See Supporting Information for explanation of symbols and abbreviations.							
WATER LEVEL OBSERVATIONS No free water observed						Boring Started: 03-06-2019		Boring Completed: 03-06-2019			
		Drill Rig: CME 679				Driller: JB					
		Project No.: 35185101									

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS

13TH ST. BRIDGE REPAIR

BORING LOGS



DEPARTMENT OF PUBLIC WORKS

CIVIL ENGINEERING

701 W. MARKHAM



LITTLE ROCK, ARKANSAS 72201

90% COMPLETE

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-

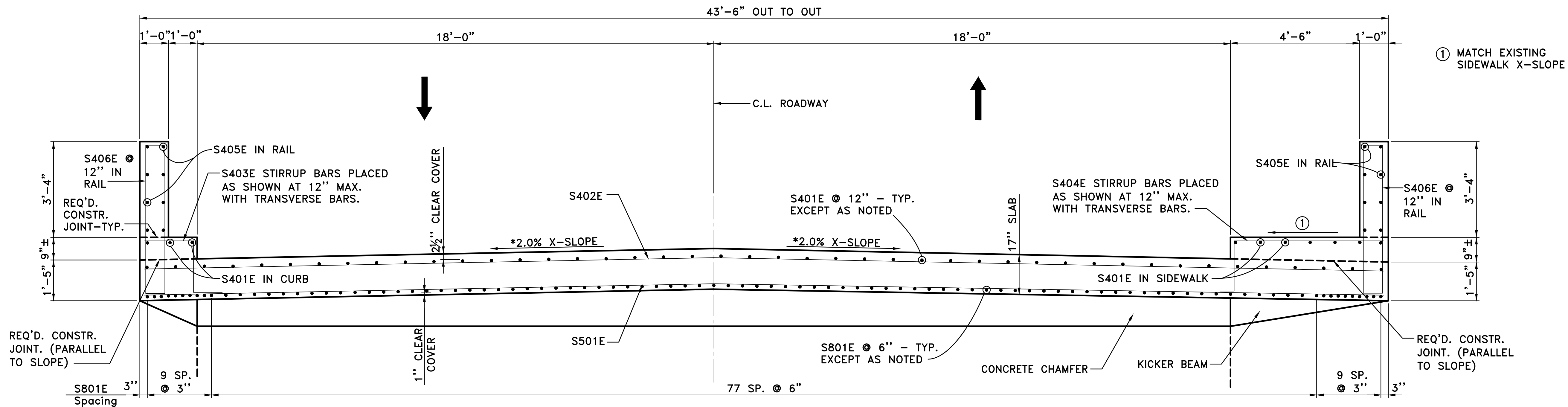
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SFH

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PROJECT NO.
CLR #1-17-ST-56B

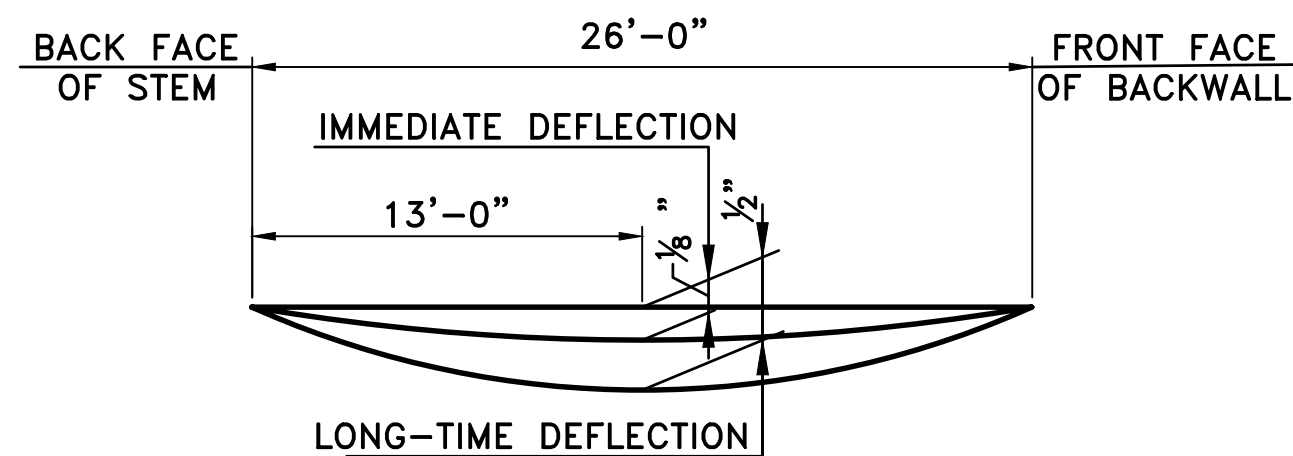
SHEET NO.
S5



TYPICAL SECTION THRU ROADWAY
1/2" = 1'-0"

FOR "CONCRETE CHAMFER
AND KICKER BEAM DETAIL",
SEE SHEET NO. S9.

*THERE ARE NO EXISTING BRIDGE PLANS AVAILABLE.
ALL DIMENSIONS AND DATA USED FOR NEW DETAILS
SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO
FABRICATION TO ENSURE COMPATIBILITY OF NEW WORK
WITH THE EXISTING STRUCTURE.



DEFLECTIONS SHOWN ARE FROM A CHORD FROM BACK FACE OF
STEM TO FRONT FACE OF BACWALL. VERTICAL ALIGNMENT
CORRECTIONS ARE NOT INCLUDED. TOLERANCE +1/4" FOR CAMBER
AND VERTICAL ALIGNMENT.

DEAD LOAD DEFLECTION DIAGRAM
NO SCALE

GENERAL NOTES

ALL CONCRETE SHALL BE CLASS "S(AE)" WITH A MINIMUM 28 DAY COMPRESSIVE
STRENGTH $f'_c = 4,000$ PSI. CONCRETE SHALL BE POURED IN THE DRY AND ALL
EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

ALL REINFORCING STEEL SHALL BE EPOXY COATED AND CONFORM TO AASHTO M31 OR
M322, GRADE 60 (YIELD STRENGTH = 60,000 PSI.).

BAR LIST - SLAB & FOOTING

MARK	NO.	REQ'D.	LENGTH	P.D.	BENDING DIAGRAMS
S401E	54	25'-8"	STR.		
S402E	26	43'-10"	STR.		
S403E	26	4'-4"	2"		
S404E	26	7'-10"	2"		
S405E	32	12'-8"	STR.		
S406E	54	12'-0"	2"		
S501E	78	43'-10"	STR.		
S502E	176	6'-4"	STR.		
S503E	45	11'-6"	2 1/2"		
S504E	2	39'-10"	STR.		
S505E-S508E	1 EACH	4'-0"	2 1/2"		
S509E	72	3'-8"	STR.		
S510E-S520E	1 EACH	4'-0"	2 1/2"		
S521E	2	4'-11"	3 3/4"		
S522E	2	8'-2"	3 3/4"		
S523E	6	6'-7"	2 1/2"		
S801E	96	25'-8"	STR.		
S1001E	2	46'-8"	10"		

NOTES:
DIMENSIONS OF BARS ARE
OUT-TO-OUT.

ALL BARS DESIGNATED WITH
AN "E" SUFFIX ARE TO
EPOXY COATED.

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS

13TH ST. BRIDGE REPAIR

REINFORCED CONCRETE SLAB DETAILS

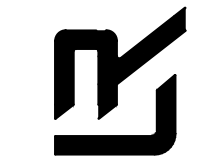


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CIVIL ENGINEERING

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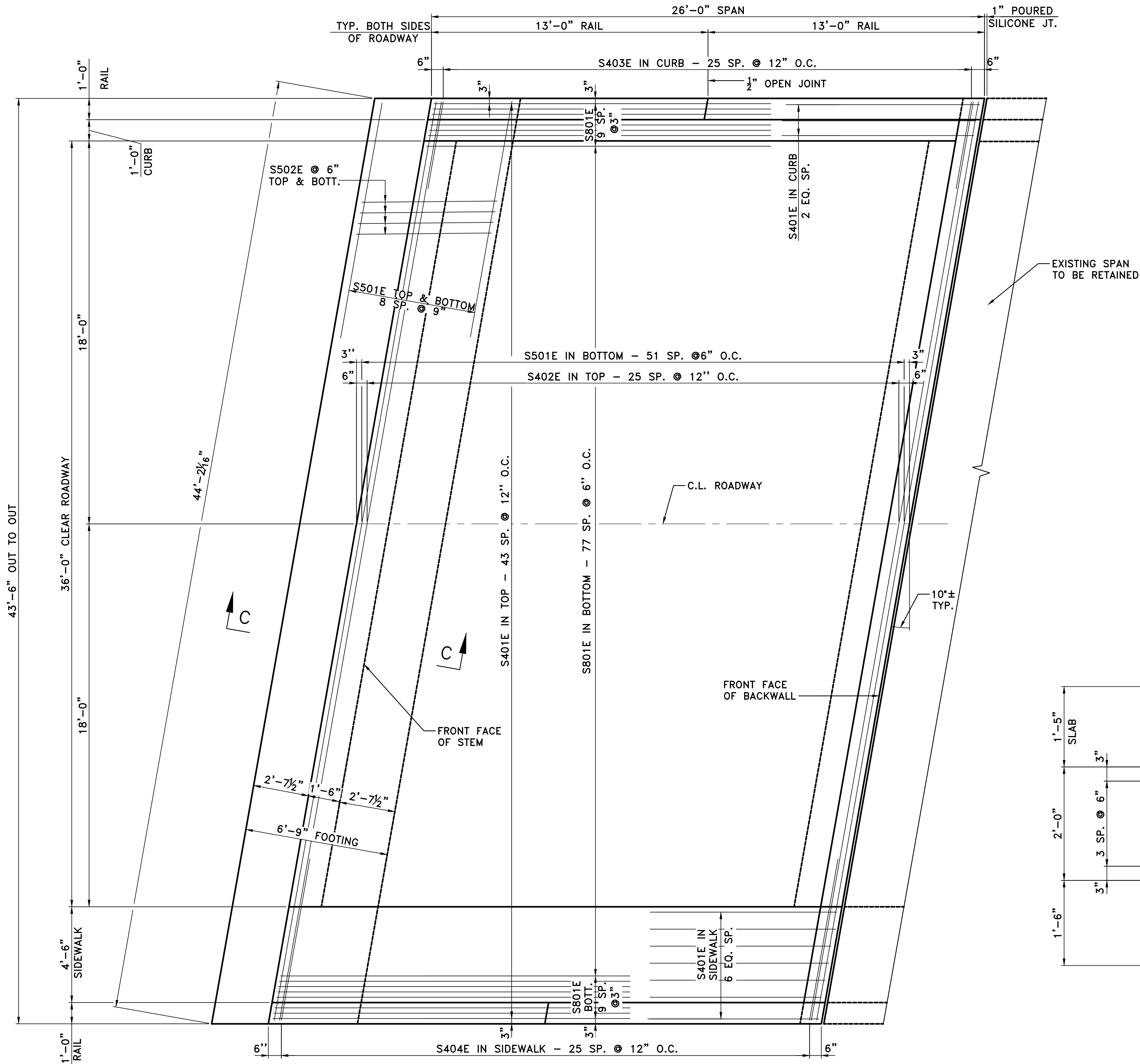
AS NOTED

PROJECT NO.

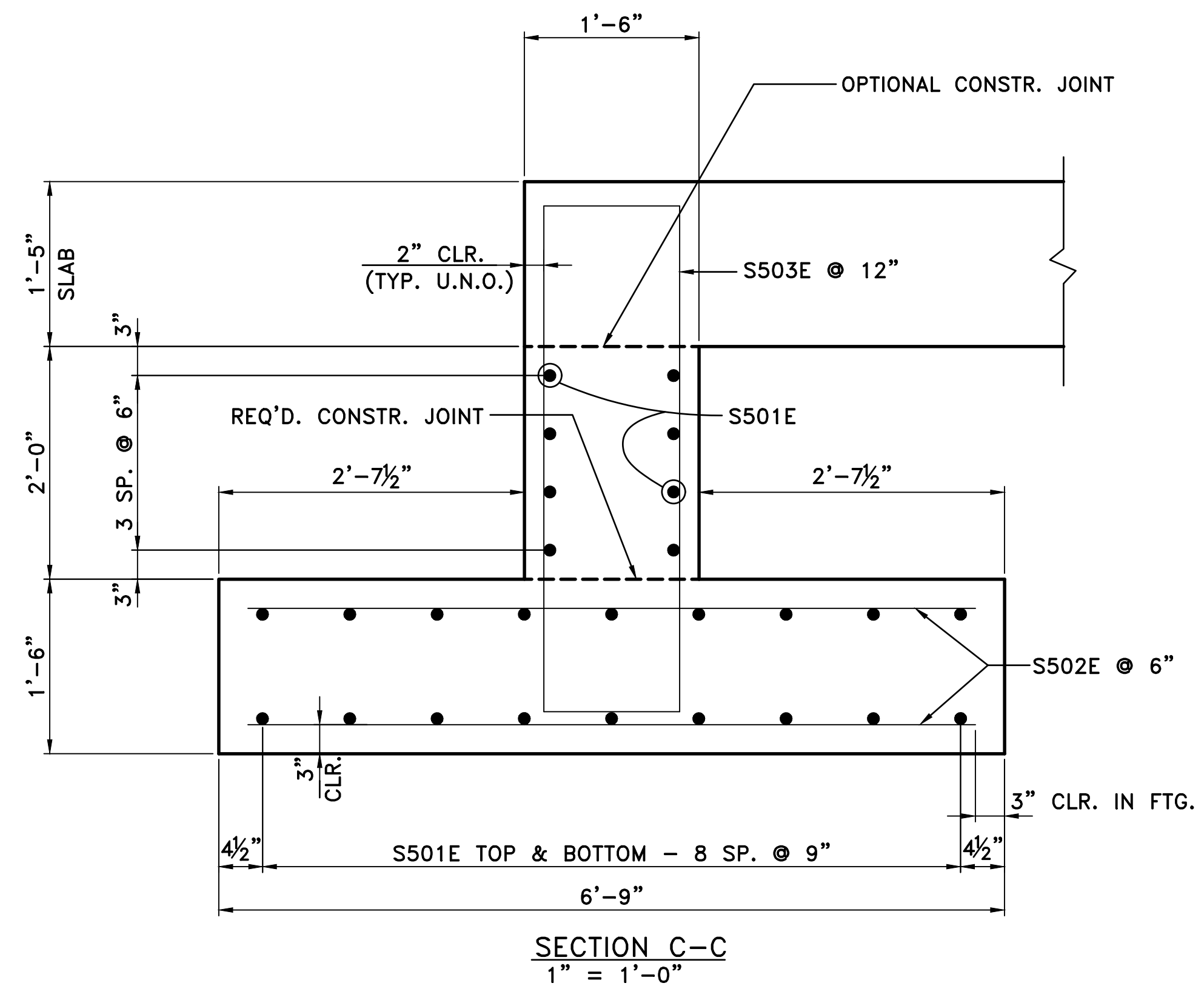
CLR #1-17-ST-56B

SHEET NO.

S7



REINFORCING PLAN
 $\frac{3}{8}'' = 1'-0''$



SECTION C-C
 $1'' = 1'-0''$

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
13TH ST. BRIDGE REPAIR
REINFORCED CONCRETE SLAB DETAILS

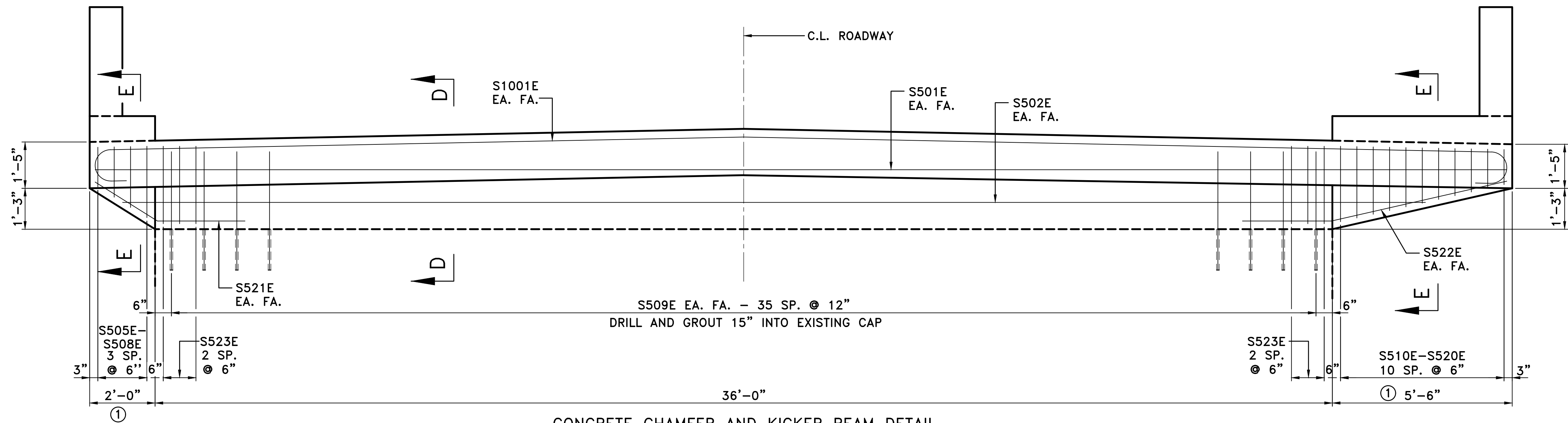


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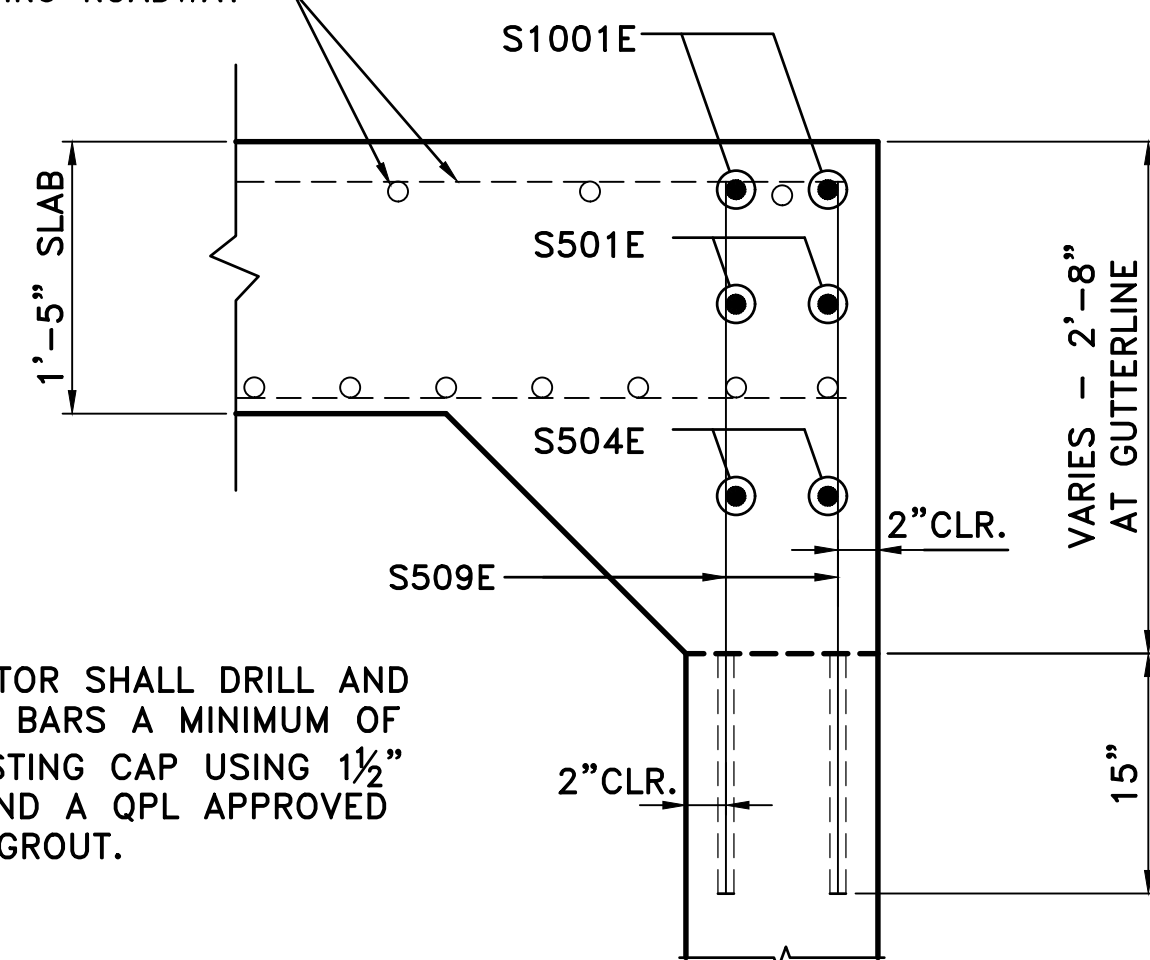
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09/2019
SCALE
AS NOTED
PROJECT NO.
CLR #1-17-ST-56B
SHEET NO.
S8



CONCRETE CHAMFER AND KICKER BEAM DETAIL
 $\frac{1}{2}'' = 1'-0''$

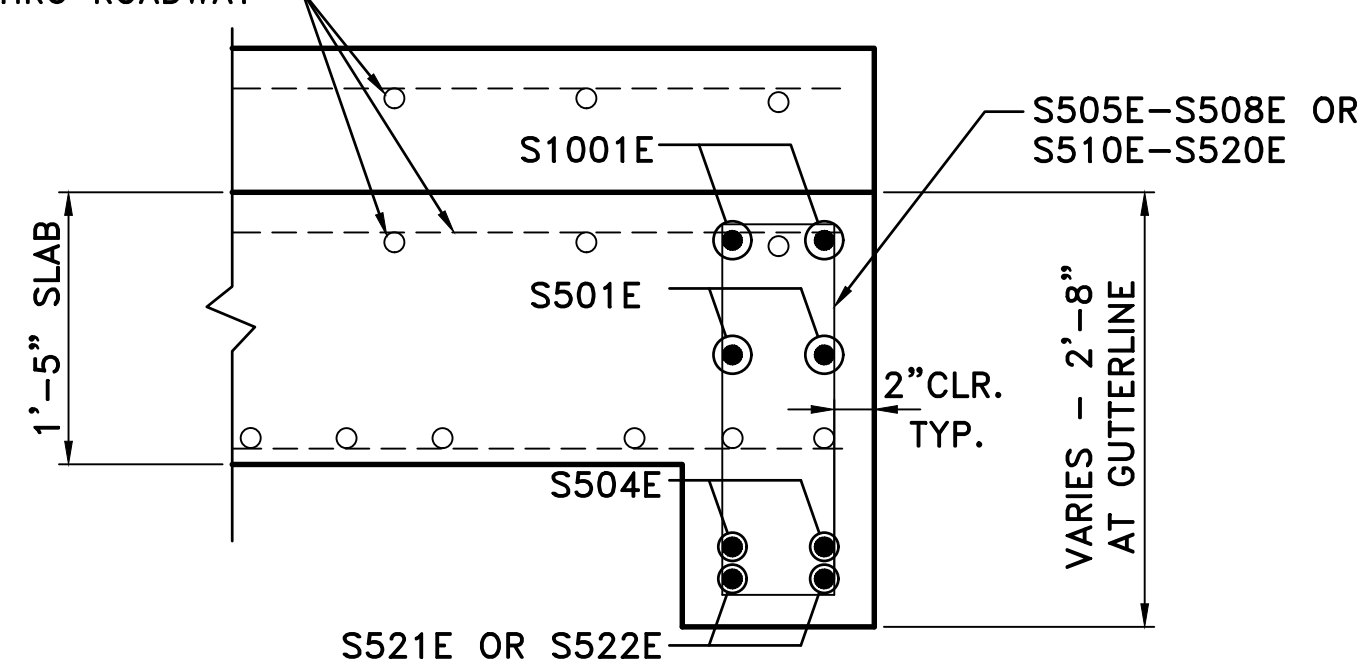
① THE CONTRACTOR SHALL FIELD-VERIFY CANTILEVER DIMENSIONS PRIOR TO CONSTRUCTION.

REINFORCING STEEL AS SHOWN IN TYPICAL SECTION THRU ROADWAY



SECTION D-D
 $1'' = 1'-0''$

REINFORCING STEEL AS SHOWN IN TYPICAL SECTION THRU ROADWAY



SECTION E-E
 $1'' = 1'-0''$

REVISIONS DATE

CITY OF LITTLE ROCK, ARKANSAS
 13TH ST. BRIDGE REPAIR
 REINFORCED CONCRETE SLAB DETAILS



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 AS NOTED
 PROJECT NO.
 CLR #1-17-ST-56B
 SHEET NO.

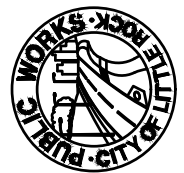
S9

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS

13TH ST. BRIDGE REPAIR

EXPANSION JOINT DETAILS



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PROJECT NO.	CLR#1-17-ST-56B
SHEET NO.	S10

SILICONE JOINT DATA

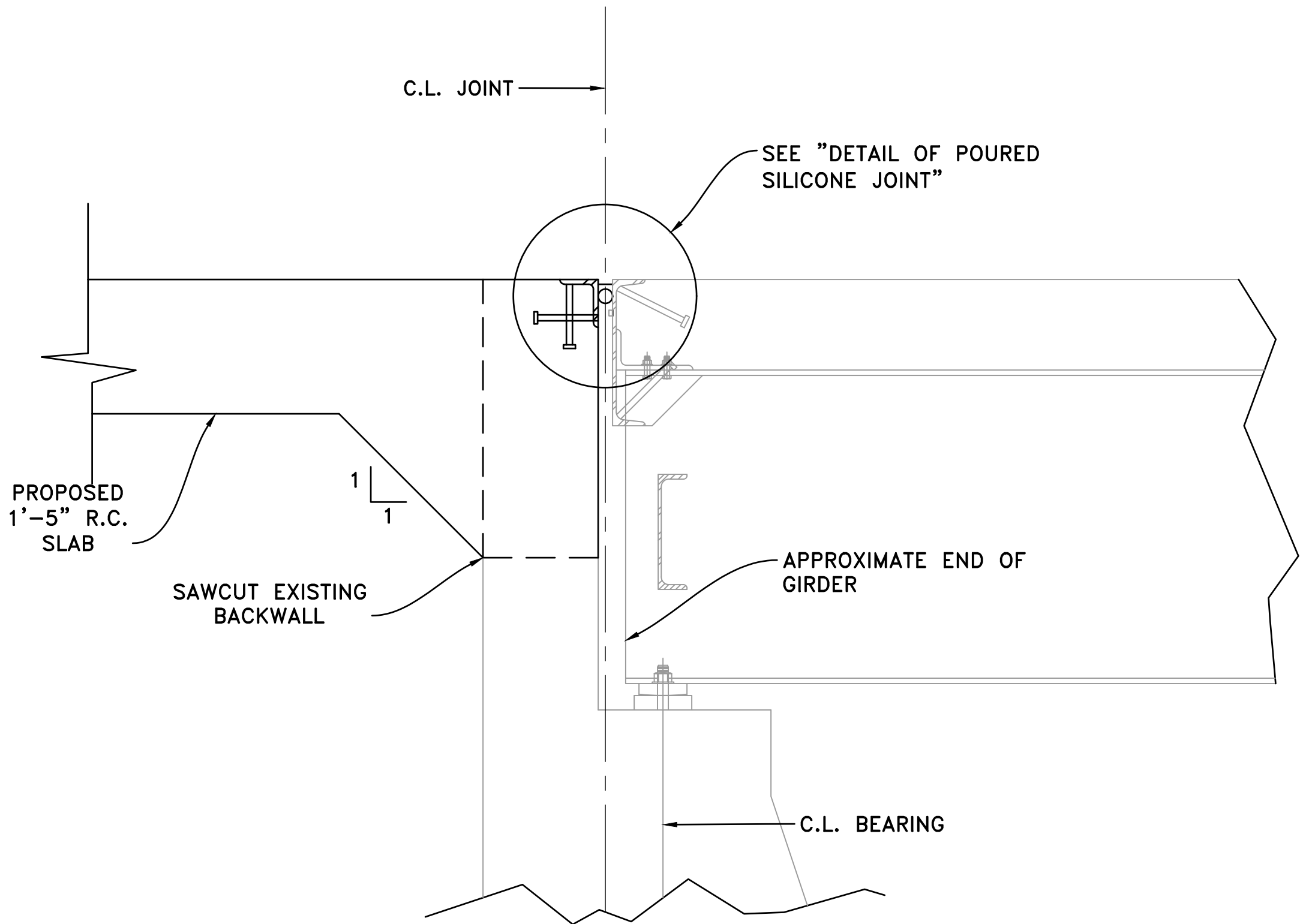
BRIDGE LOCATION	BENT NO.	"A" JOINT WIDTH PERPENDICULAR TO JOINT 24 HOUR AVERAGE TEMPERATURE OF:*			"D"
		40° F	60° F	80° F	
13TH ST. BRIDGE OVER UPRR	1	1 1/8"	1"	7/8"	5"

*THE TEMPERATURE USED TO SET THE JOINT OPENING SHALL BE THE APPROXIMATE AVERAGE AIR TEMPERATURE DURING THE 24 HOUR PERIOD IMMEDIATELY BEFORE THE NEW SLAB IS CAST. THE ENGINEER SHALL ESTABLISH THE TEMPERATURE. INTERPOLATION OF THE TABLE MAY BE NECESSARY.

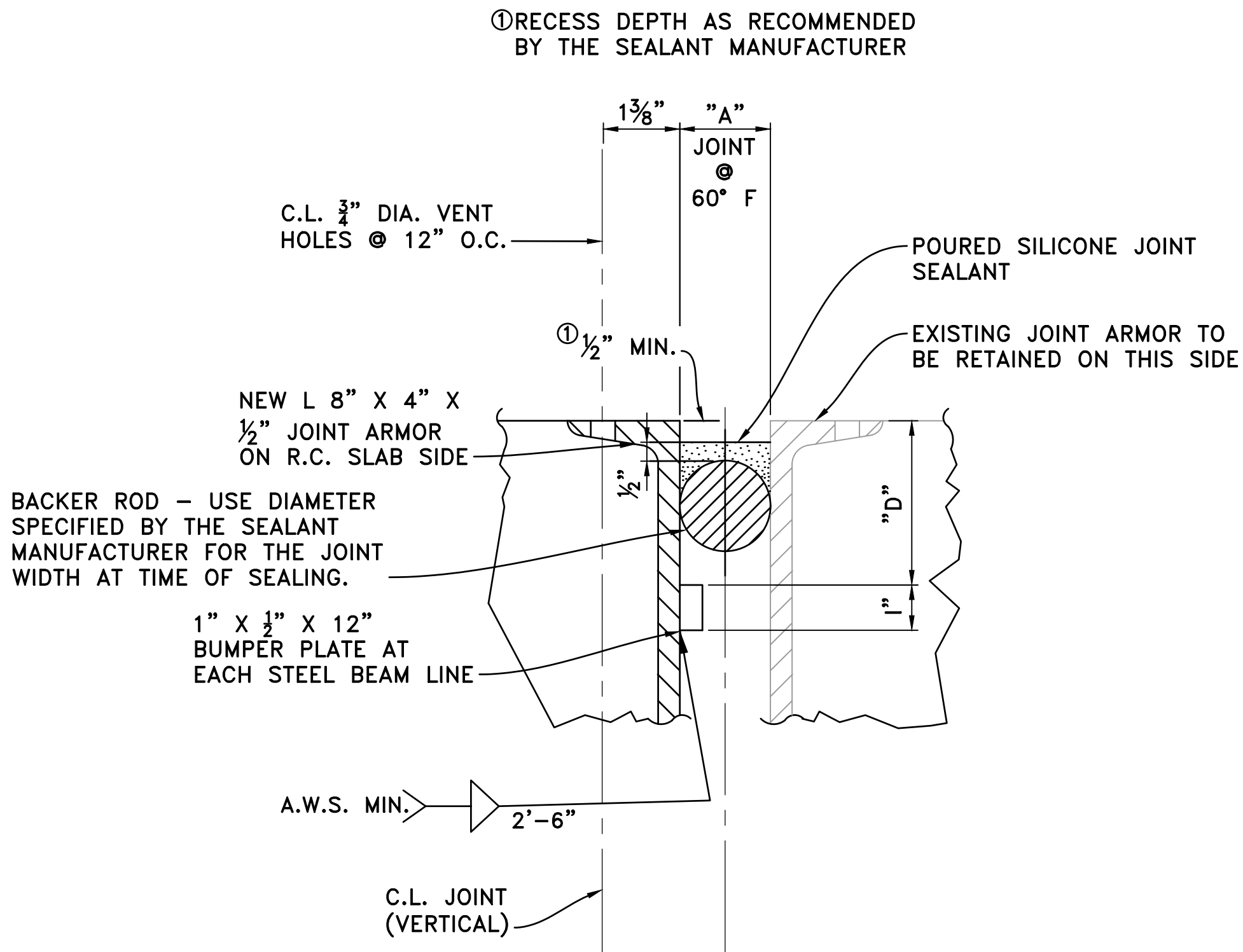
NOTES:
THE TEMPERATURE LIMITATIONS RECOMMENDED BY THE SEALANT MANUFACTURER SHALL BE OBSERVED. THE SEALANT SHALL BE INSTALLED ONLY WHEN THE AVERAGE 24 HOUR AIR TEMPERATURE IS BETWEEN 40° AND 80° F.

USE AN APPROPRIATELY SIZED BACKER ROD AT THE DEPTH SHOWN IN THE MANUFACTURER'S LITERATURE BASED ON THE JOINT WIDTH AT THE TIME OF SEALING. UNLESS OTHERWISE NOTED, DO NOT INSTALL MORE BACKER ROD THAN CAN BE SEALED IN THE SAME DAY.

THE CONTRACTOR SHALL VERIFY SEPARATION OF THE BACKER ROD FOR THE JOINT MATERIAL AFTER THE JOINT MATERIAL HAS SET.

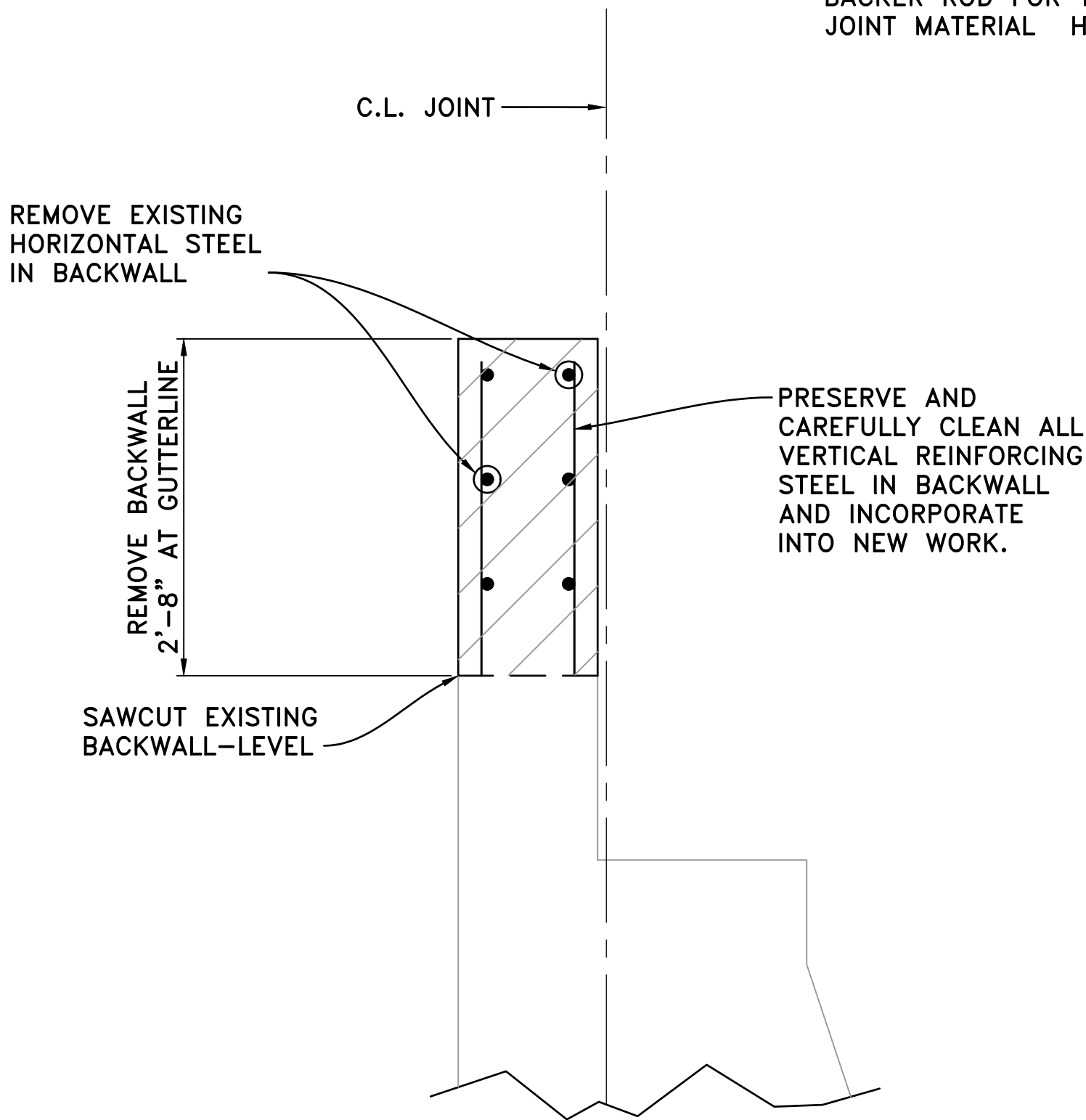


SECTION THRU JOINT AT EXIST. BENT 1



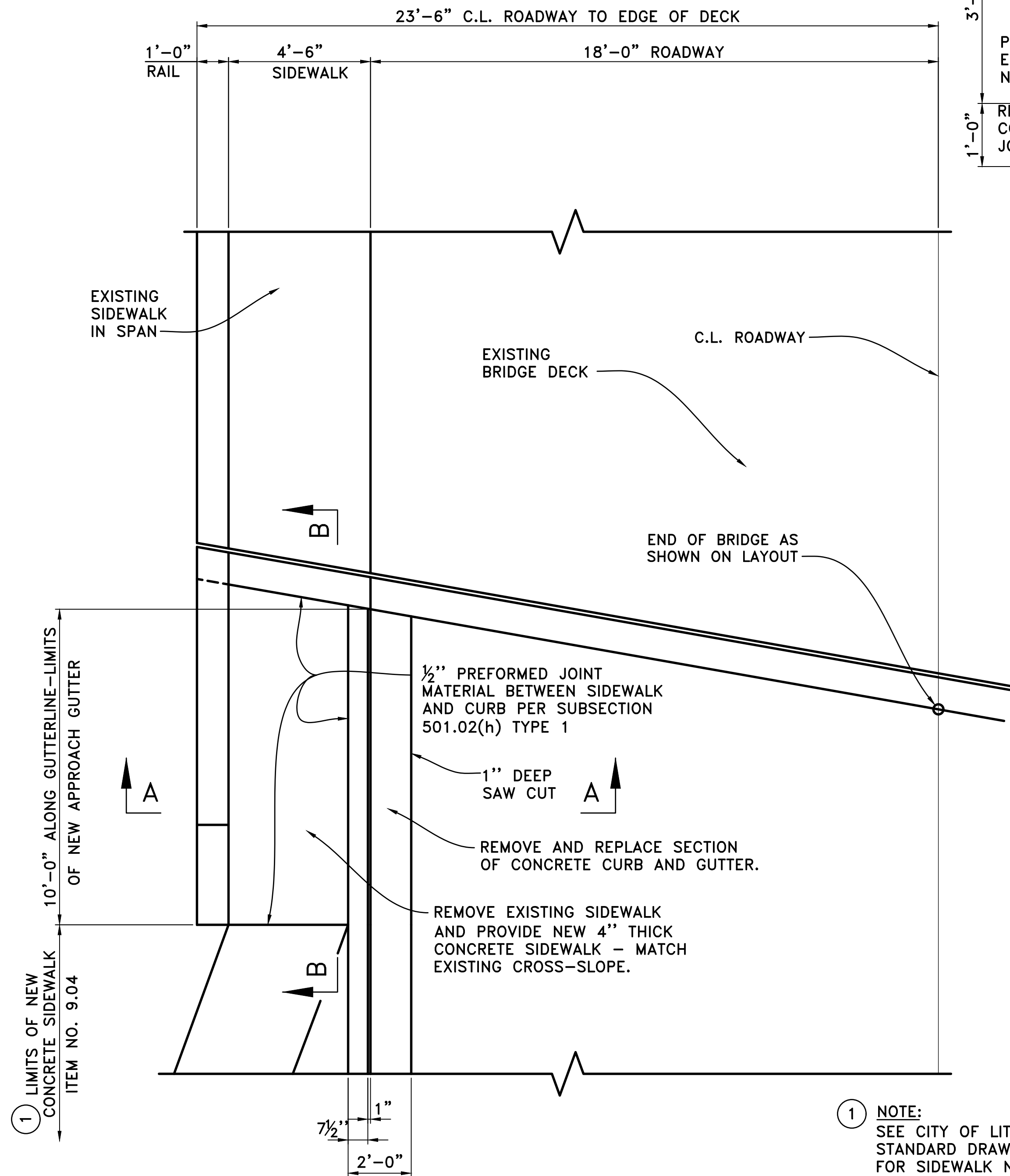
DETAIL OF POURED SILICONE JOINT

NOTE: CONCRETE SHALL BE HAND PACKED UNDER THE JOINT ARMOR IN THE NEW R.C. SLAB SPAN.



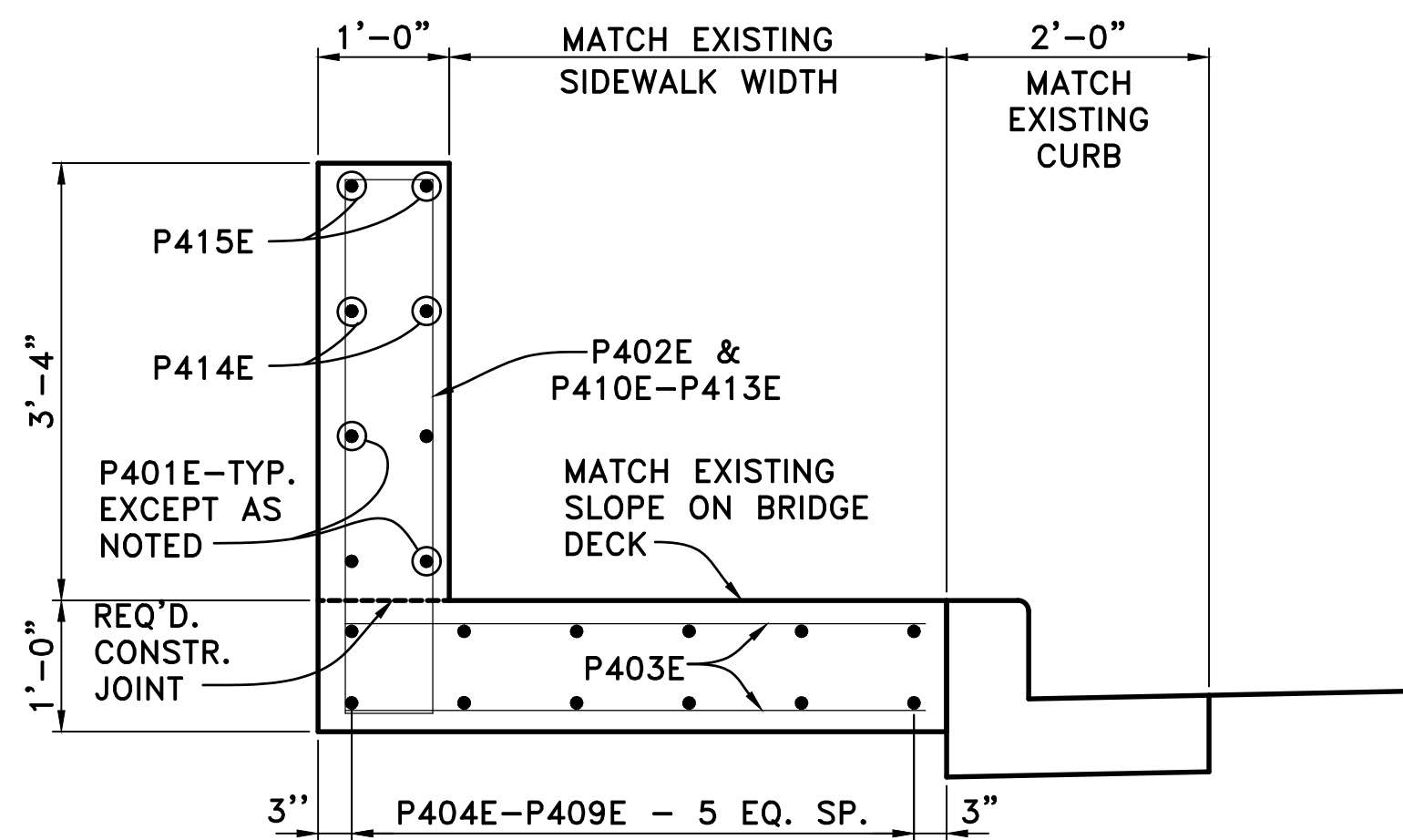
REMOVAL DETAILS

THERE ARE NO EXISTING BRIDGE PLANS AVAILABLE. ALL DIMENSIONS AND DATA USED FOR NEW DETAILS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO FABRICATION TO ENSURE COMPATIBILITY OF NEW WORK WITH THE EXISTING STRUCTURE.



PLAN OF APPROACH GUTTER
(SHOWN AT SOUTHEAST CORNER OF BRIDGE
SOUTHWEST CORNER SIMILAR)
3/8" = 1' - 0"

NOTE:
SEE CITY OF LITTLE ROCK
STANDARD DRAWING PW-41
FOR SIDEWALK NOTES AND
DETAILS AND SUBGRADE
COMPACTION REQUIREMENTS.



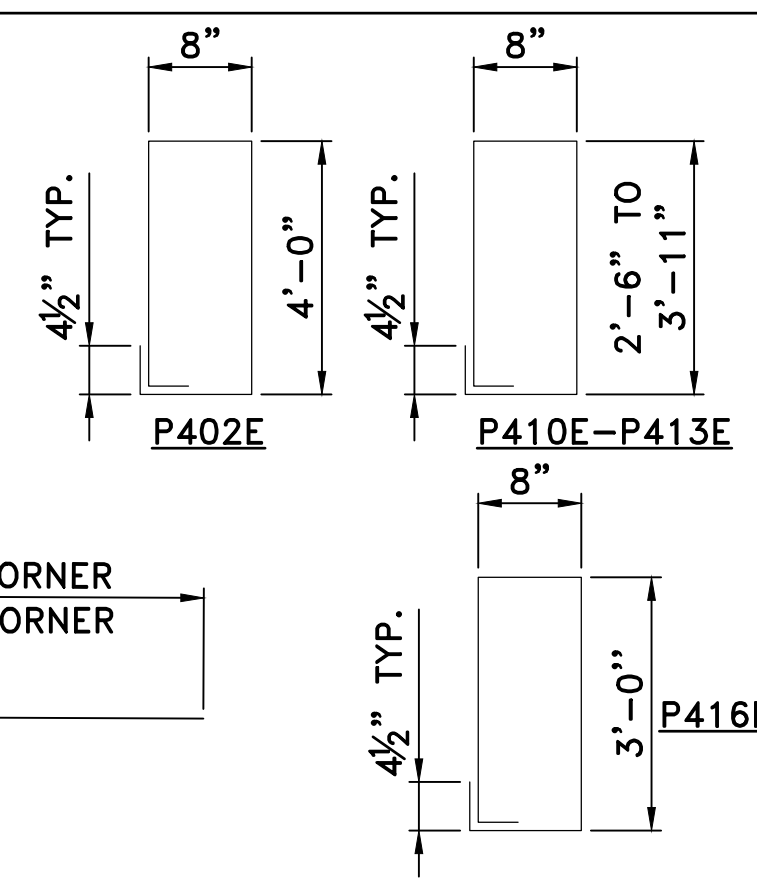
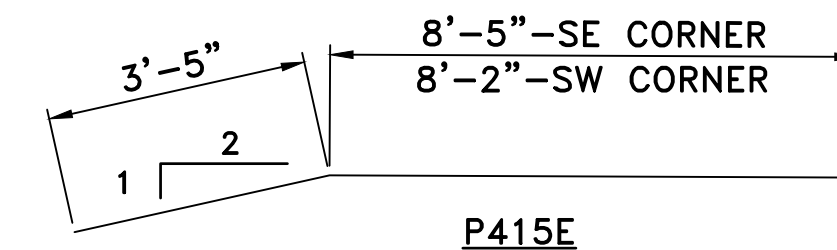
SECTION A-A
3/4" = 1' - 0"

TABLE OF VARIABLES

MARK	SOUTHEAST CORNER	SOUTHWEST CORNER
P401E	11'-5"	11'-3"
P404E-P409E	9'-10" TO 10'-6"	9'-7" TO 10'-3"
P414E	10'-5"	10'-2"
P415E	11'-10"	11'-7"

BAR LIST - PER APPROACH GUTTER

MARK	NO.	REQ'D.	LENGTH	P.D.
P401E	4	SEE TABLE	STR.	
P402E	8	9'-8"	2"	
P403E	24	4'-5"	STR.	
P404E-P409E	2 EACH	SEE TABLE	STR.	
P410E-P413E	1 EACH	6'-8" TO 9'-6"	2"	
P414E	2	SEE TABLE	STR.	
P415E	2	SEE TABLE	2"	
P416E	1	7'-8"	2"	



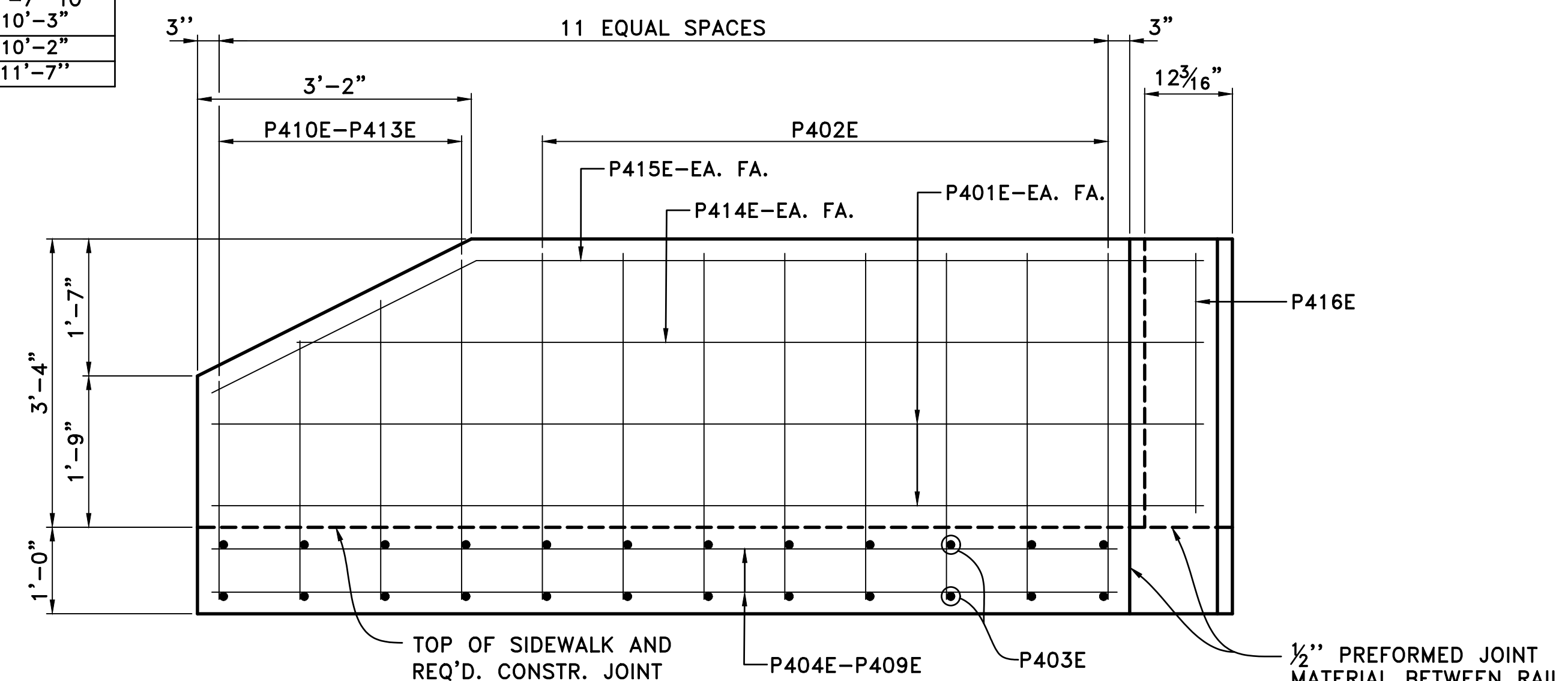
GENERAL NOTES

ALL CONCRETE SHALL BE CLASS "S(AE)" WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH $f'_c = 4,000$ PSI. CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

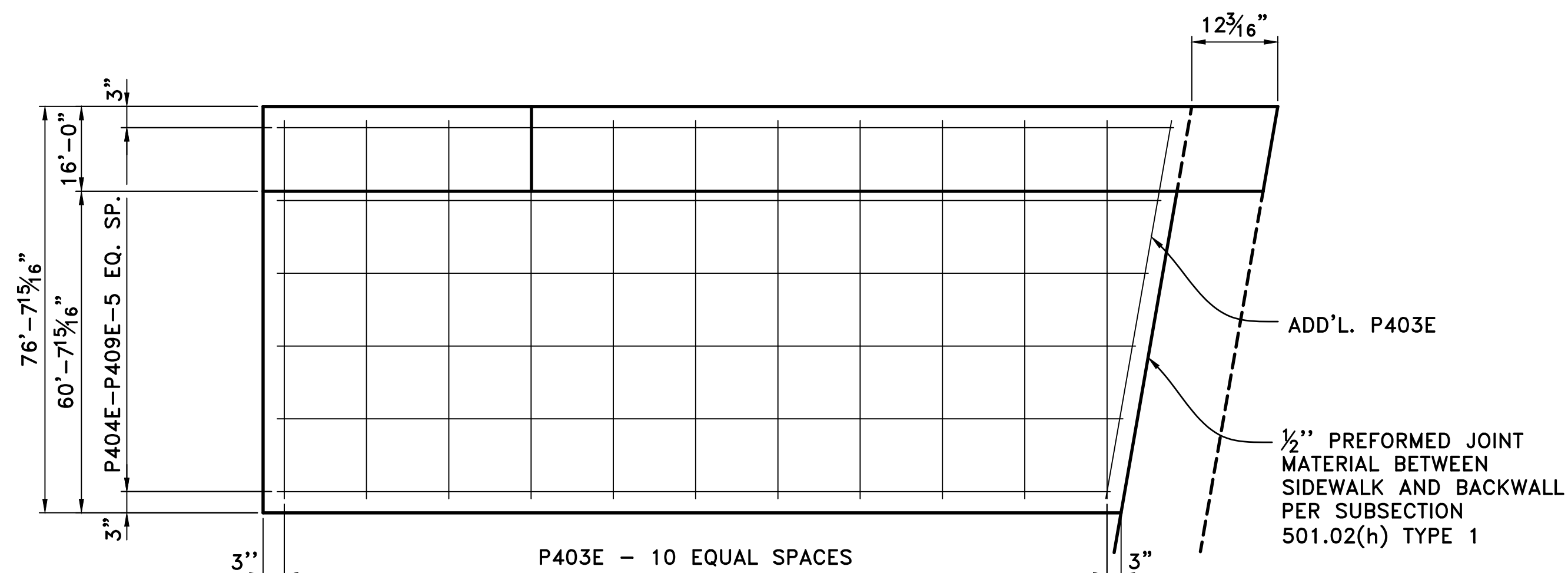
ALL REINFORCING STEEL SHALL BE EPOXY COATED AND CONFORM TO AASHTO M31 OR M322, GRADE 60 (YIELD STRENGTH = 60,000 PSI.).

NOTES:
DIMENSIONS OF BARS ARE OUT-TO-OUT.

ALL BARS DESIGNATED WITH AN "E" SUFFIX ARE TO EPOXY COATED.



SECTION B-B
3/4" = 1' - 0"



APPROACH GUTTER REINFORCING PLAN
3/4" = 1' - 0"

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS

13TH ST. BRIDGE REPAIR

APPROACH GUTTER DETAILS

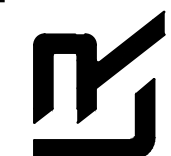


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CIVIL ENGINEERING

701 W. MARKHAM

LITTLE ROCK, ARKANSAS 72201



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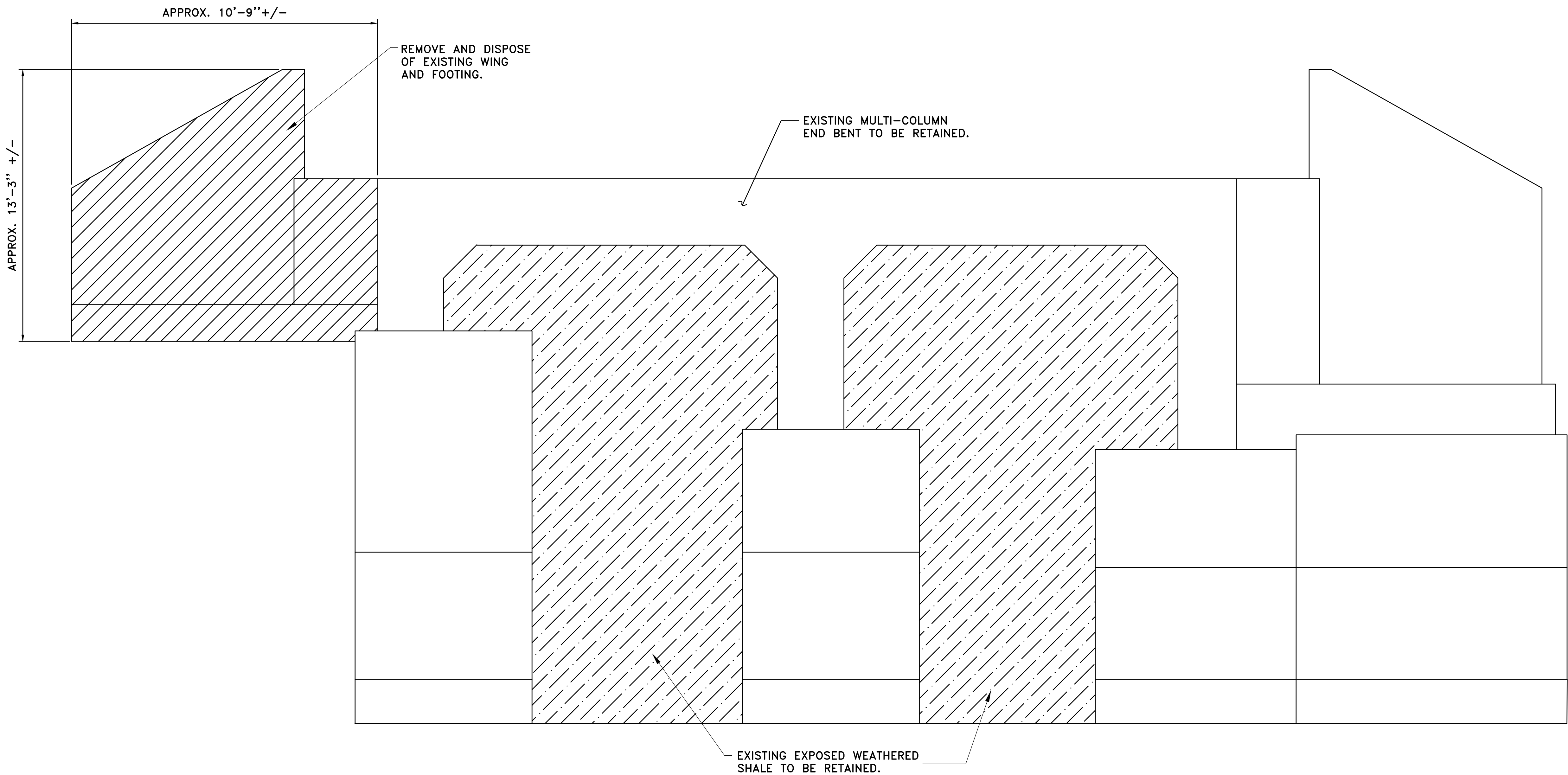
AS NOTED

PROJECT NO.

CLR #1-17-ST-56B

SHEET NO.

S11



BENT 1 ELEVATION
LOOKING BACK

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS

13TH ST. BRIDGE REPAIR

END BENT 1 DETAILS

DEPARTMENT OF PUBLIC WORKS

CIVIL ENGINEERING

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LITTLE ROCK, ARKANSAS 72201

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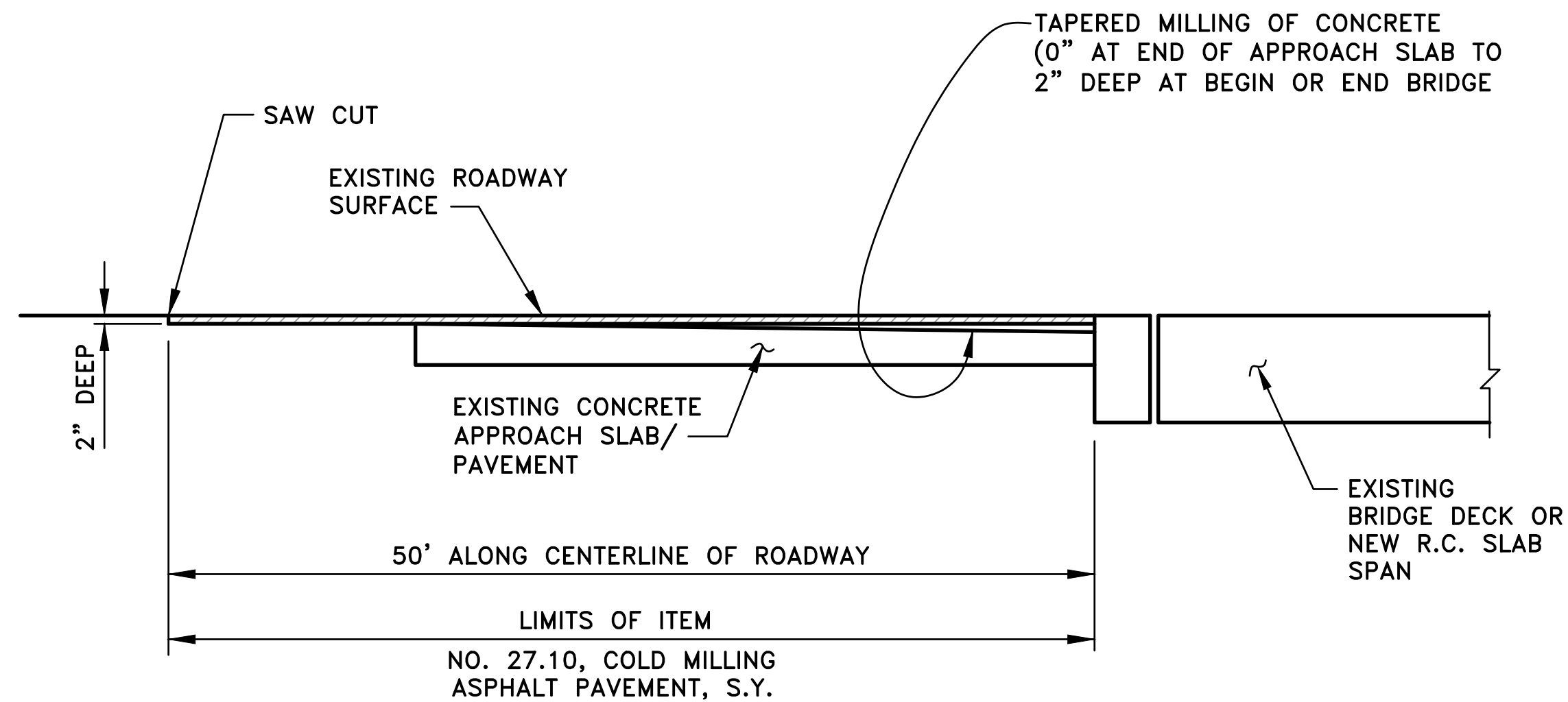
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PROJECT NO.

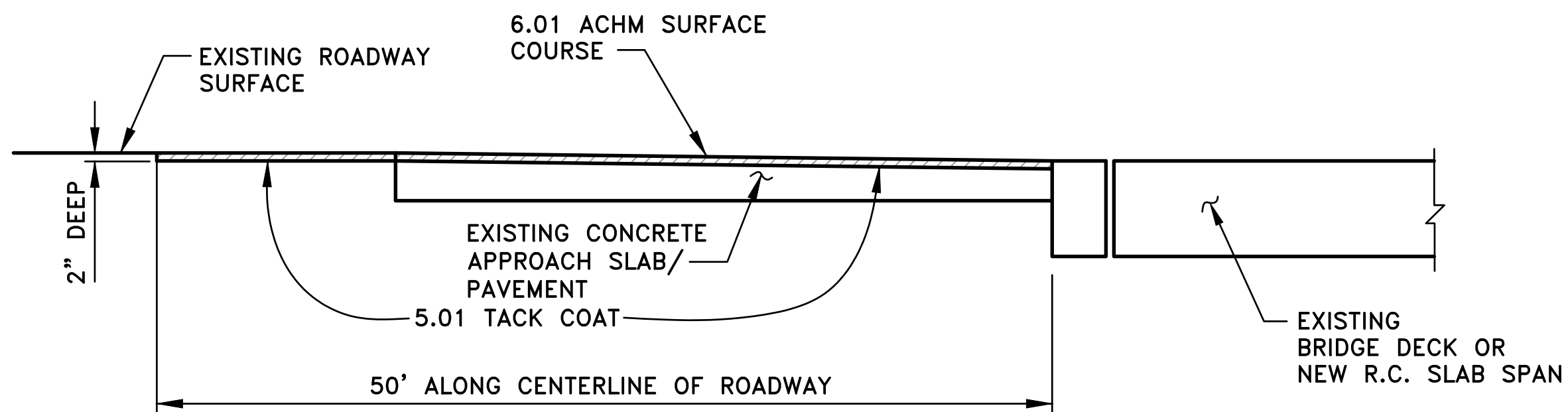
CLR #1-17-ST-56B

SHEET NO.

S12



STEP 1: ASPHALT REMOVAL AT BRIDGE ENDS



STEP 2: SURFACE COURSE APPLICATION AT BRIDGE ENDS
ASPHALT TRANSITION DETAILS

TABLE OF VARIABLES

MARK	NORTHWEST CORNER	NORTHEAST CORNER
P417E	10'-10"	10'-6"
P420E	10'-0"	9'-5"
P421E	9'-10"	9'-7"
P422E	9'-8"	9'-9"
P427E	9'-10"	9'-6"
P428E	11'-2"	10'-10"

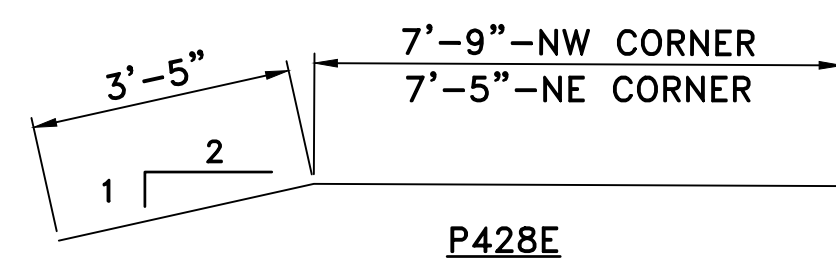
GENERAL NOTES

ALL CONCRETE SHALL BE CLASS "S(AE)" WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH $f'_c = 4,000$ PSI. CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED $\frac{3}{4}$ " UNLESS OTHERWISE NOTED.

ALL REINFORCING STEEL SHALL BE EPOXY COATED AND CONFORM TO AASHTO M31 OR M322, GRADE 60 (YIELD STRENGTH = 60,000 PSI.).

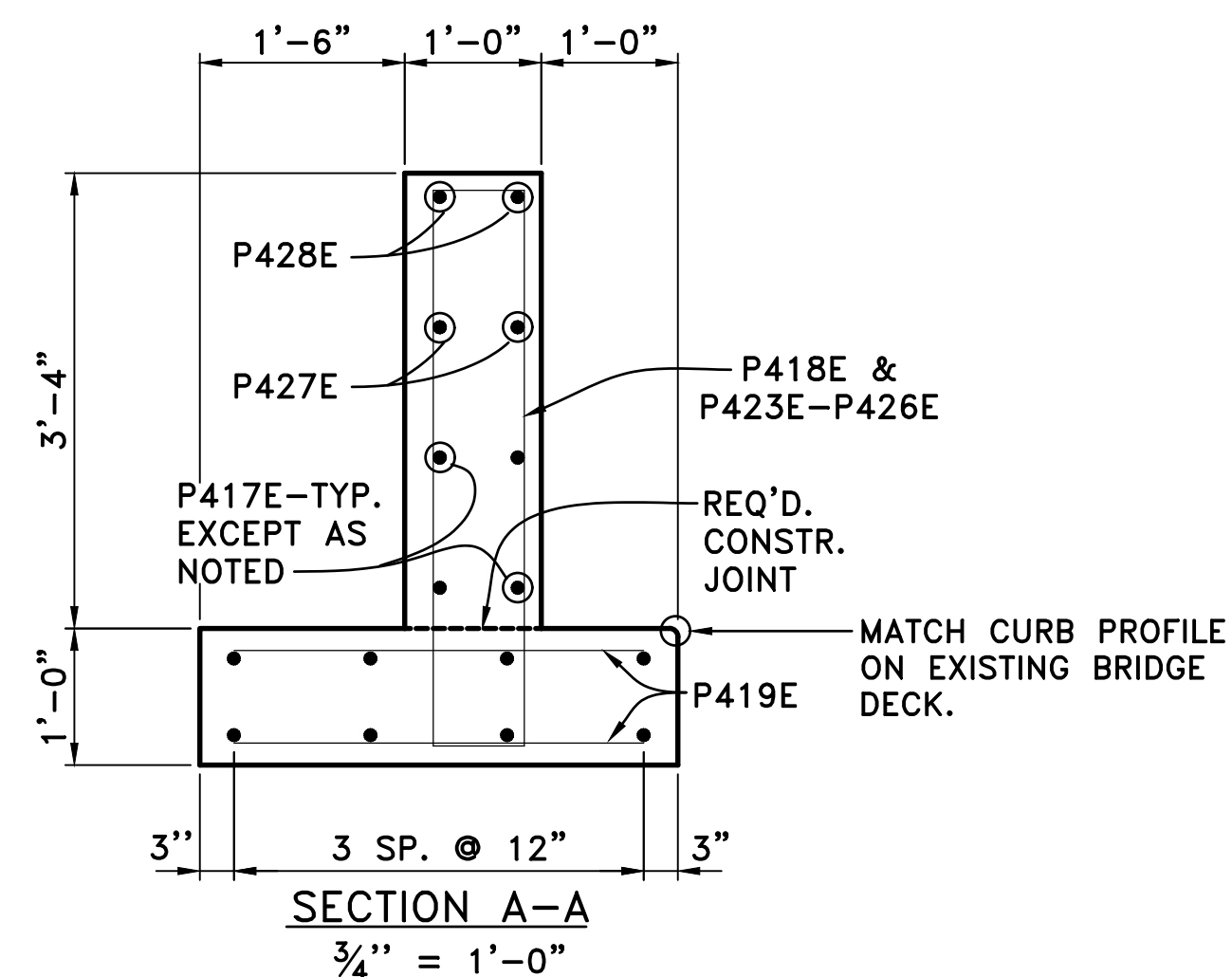
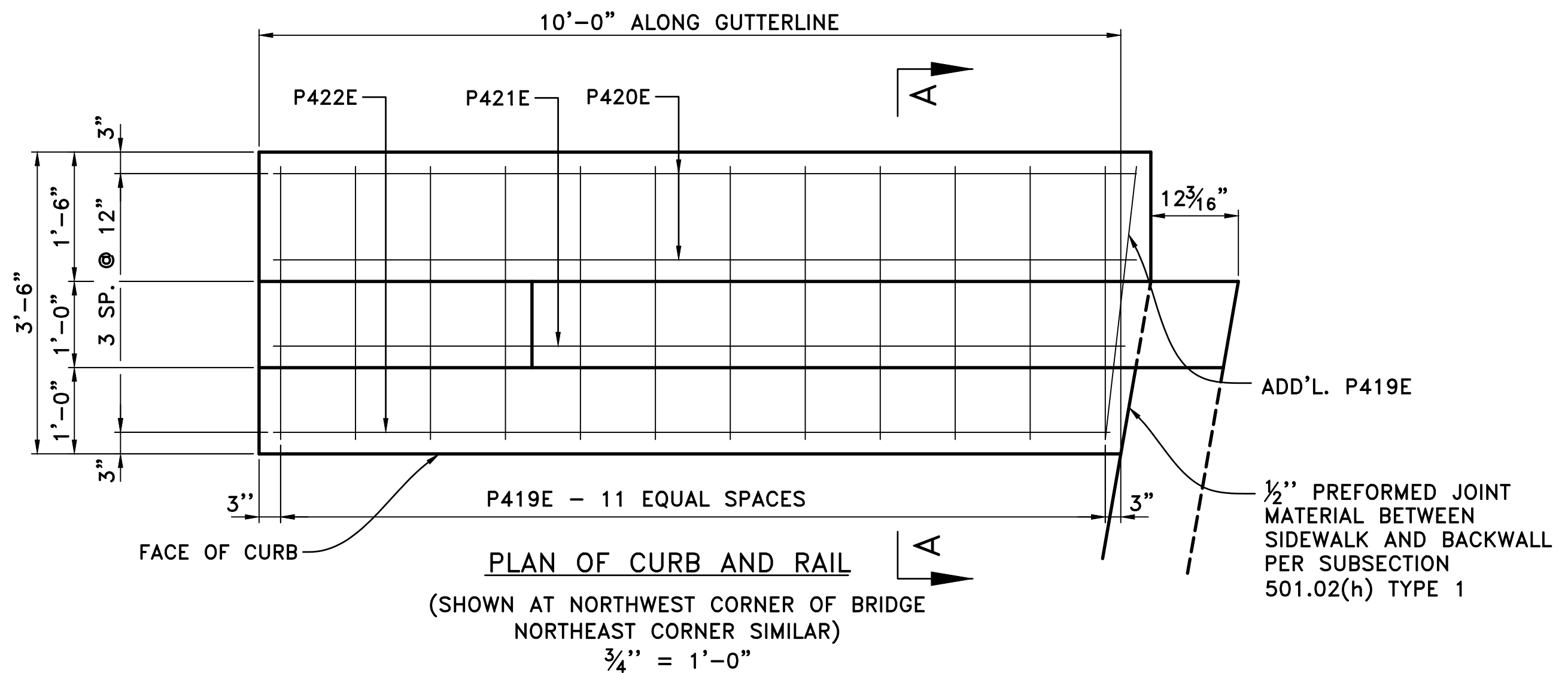
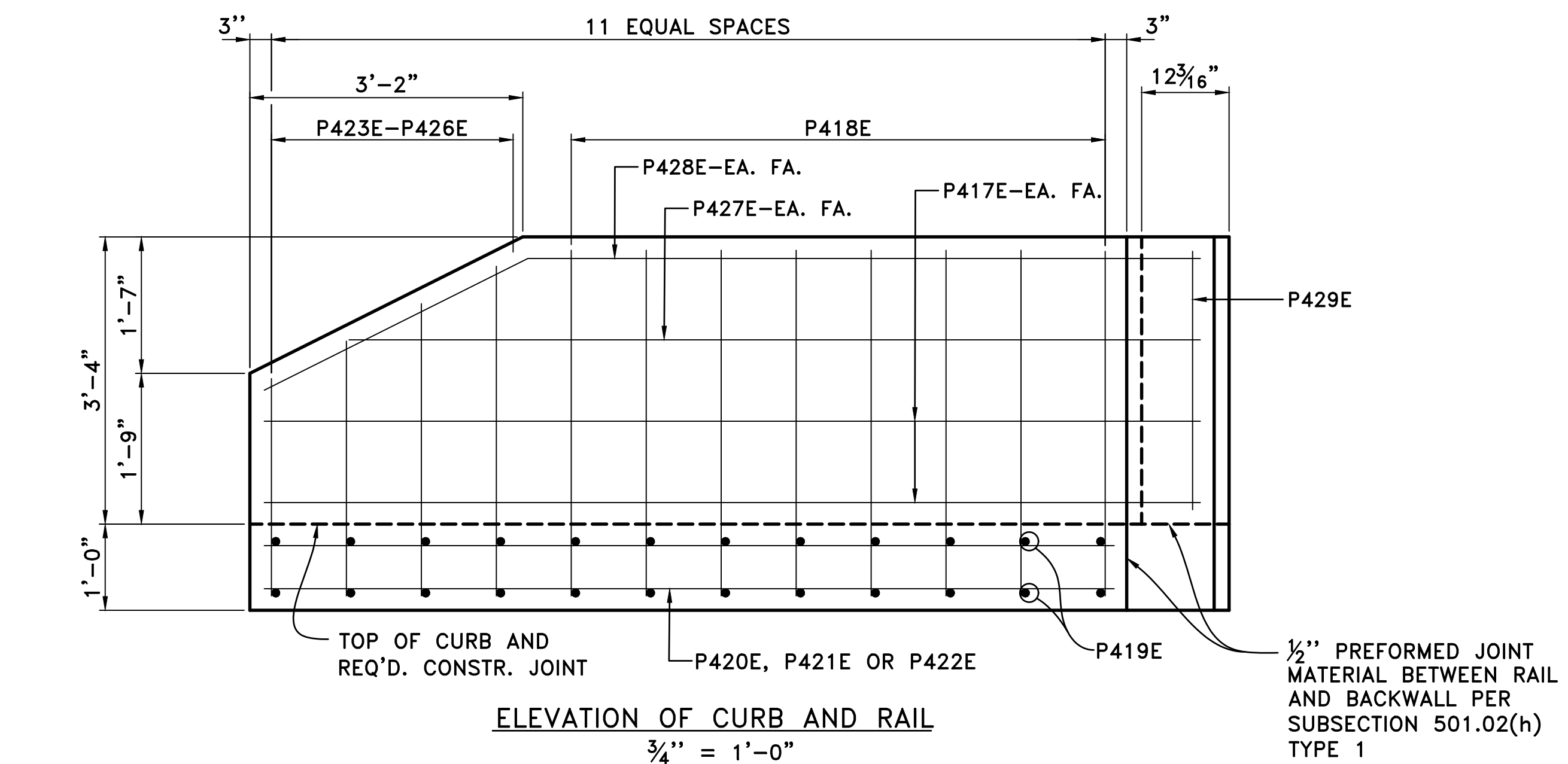
BAR LIST - PER CURB AND RAIL

MARK	NO.	REQ'D.	LENGTH	P.D.
P417E	4	SEE TABLE	STR.	2"
P418E	8	9'-8"	STR.	2"
P419E	26	3'-2"	STR.	2"
P420E	4	SEE TABLE	STR.	2"
P421E	2	SEE TABLE	STR.	2"
P422E	2	SEE TABLE	STR.	2"
P423E-P426E	1 EACH	6'-8" TO 9'-6"	STR.	2"
P427E	2	SEE TABLE	STR.	2"
P428E	2	SEE TABLE	STR.	2"
P429E	1	7'-8"	STR.	2"



NOTES:
DIMENSIONS OF BARS ARE OUT-TO-OUT.

ALL BARS DESIGNATED WITH AN "E" SUFFIX ARE TO EPOXY COATED.



REVISIONS DATE

CITY OF LITTLE ROCK, ARKANSAS

13TH ST. BRIDGE REPAIR

MISCELLANEOUS DETAILS

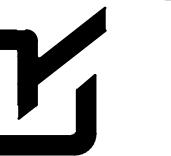


DEPARTMENT OF PUBLIC WORKS

CIVIL ENGINEERING

701 W. MARKHAM

LITTLE ROCK, ARKANSAS 72201



90% COMPLETE

DRAWN BY

KDH

DESIGNED

SCR

CHECKED

SFH

DATE

09/2019

SCALE

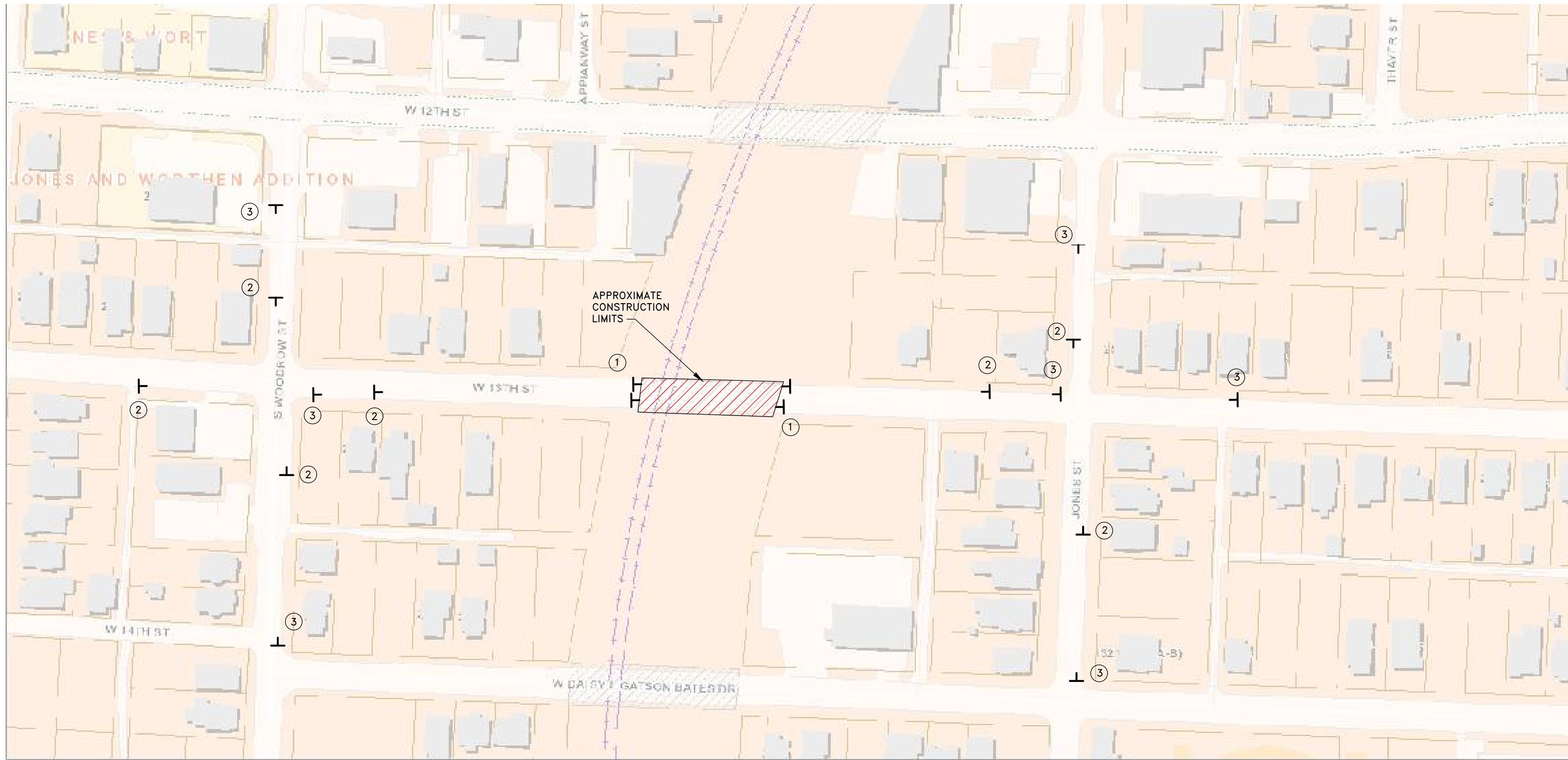
N.T.S

PROJECT NO.

CLR #1-17-ST-56B

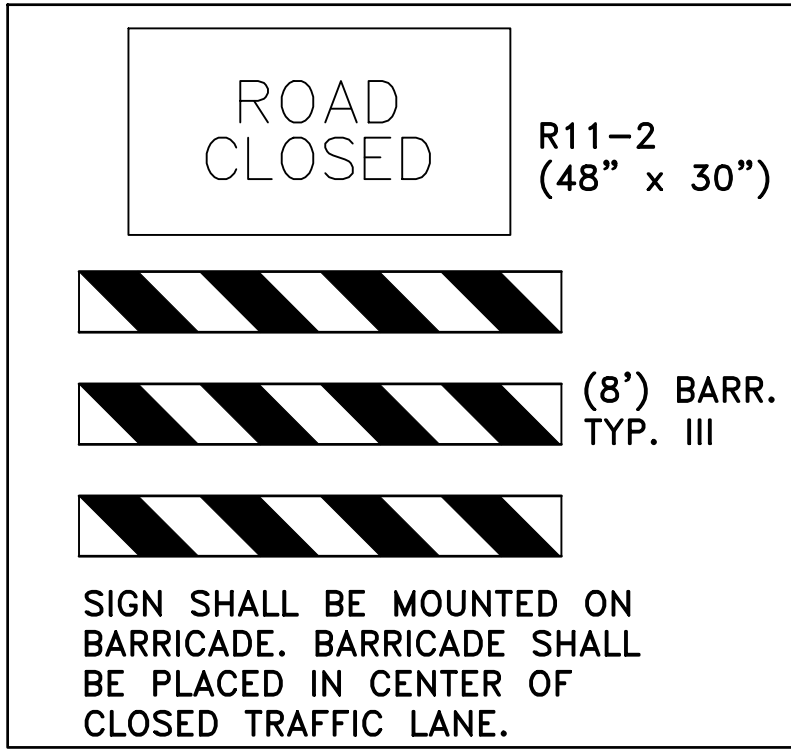
SHEET NO.

S13



MAINTENANCE OF TRAFFIC NOTES:

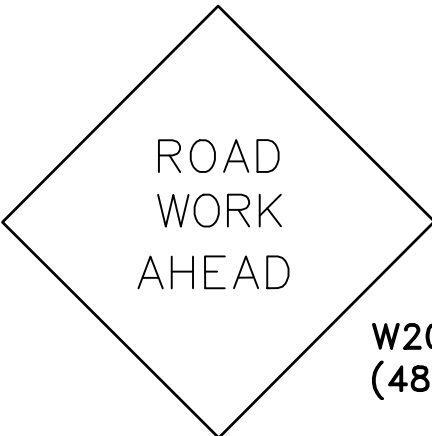
1. THE 13th. BRIDGE (UNION PACIFIC RAILROAD OVERPASS) SHALL BE CLOSED TO ALL THRU VEHICULAR AND PEDESTRIAN TRAFFIC DURING THE LIFE OF THE CONSTRUCTION PROJECT. (LOCAL TRAFFIC ONLY)
2. THE CONTRACTOR SHALL PROVIDE, INSTALL, AND MAINTAIN ALL TRAFFIC CONTROL DEVICES.
3. ALL TRAFFIC CONTROL DEVICES SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION).
4. THE CONTRACTOR SHALL USE WHATEVER MEANS NECESSARY TO ENSURE THAT PEDESTRIANS DO NOT ENTER WORK AREAS AND THAT OPEN CONSTRUCTION IS PROTECTED.
5. THE CONTRACTOR SHALL STRICTLY COORDINATE THE BRIDGE CLOSURE WITH THE CITY OF LITTLE ROCK.



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③

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
13TH. ST. BRIDGE REPAIR
MAINTENANCE OF TRAFFIC

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201



DRAWN BY SCR
DESIGNED SCR
CHECKED SFH
DATE 09/2019
SCALE N.T.S.
PROJECT NO. CLR #1-17-ST-56B
SHEET NO. S14