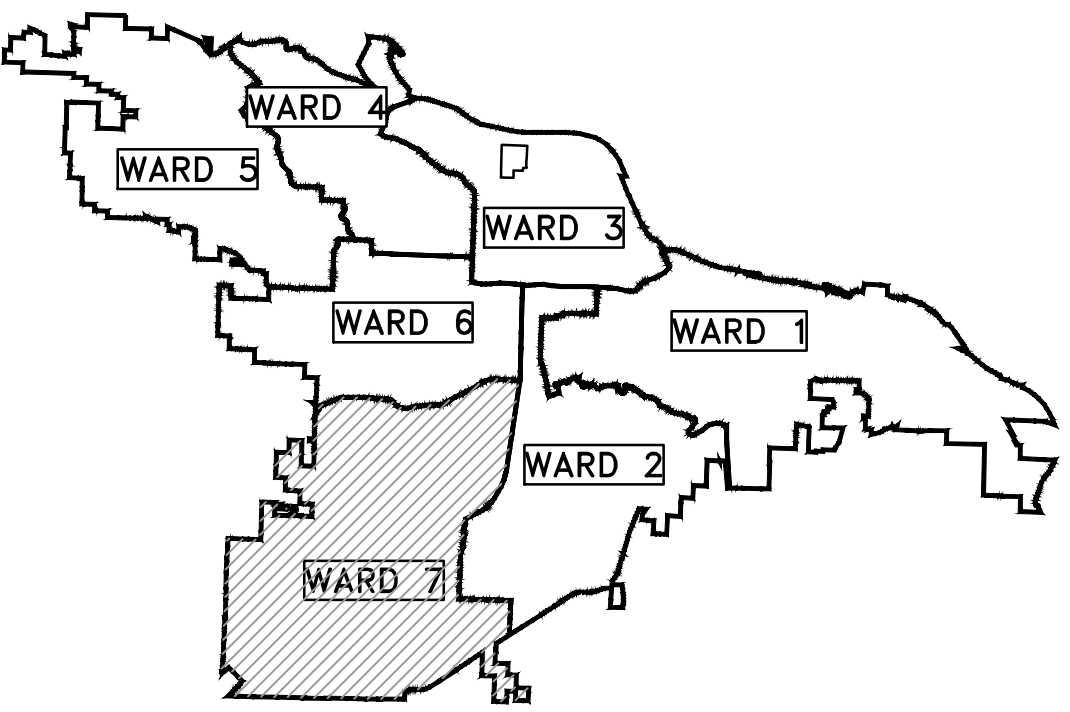


CLR PROJECT 07-17-ST-293

EASTWOOD STREET

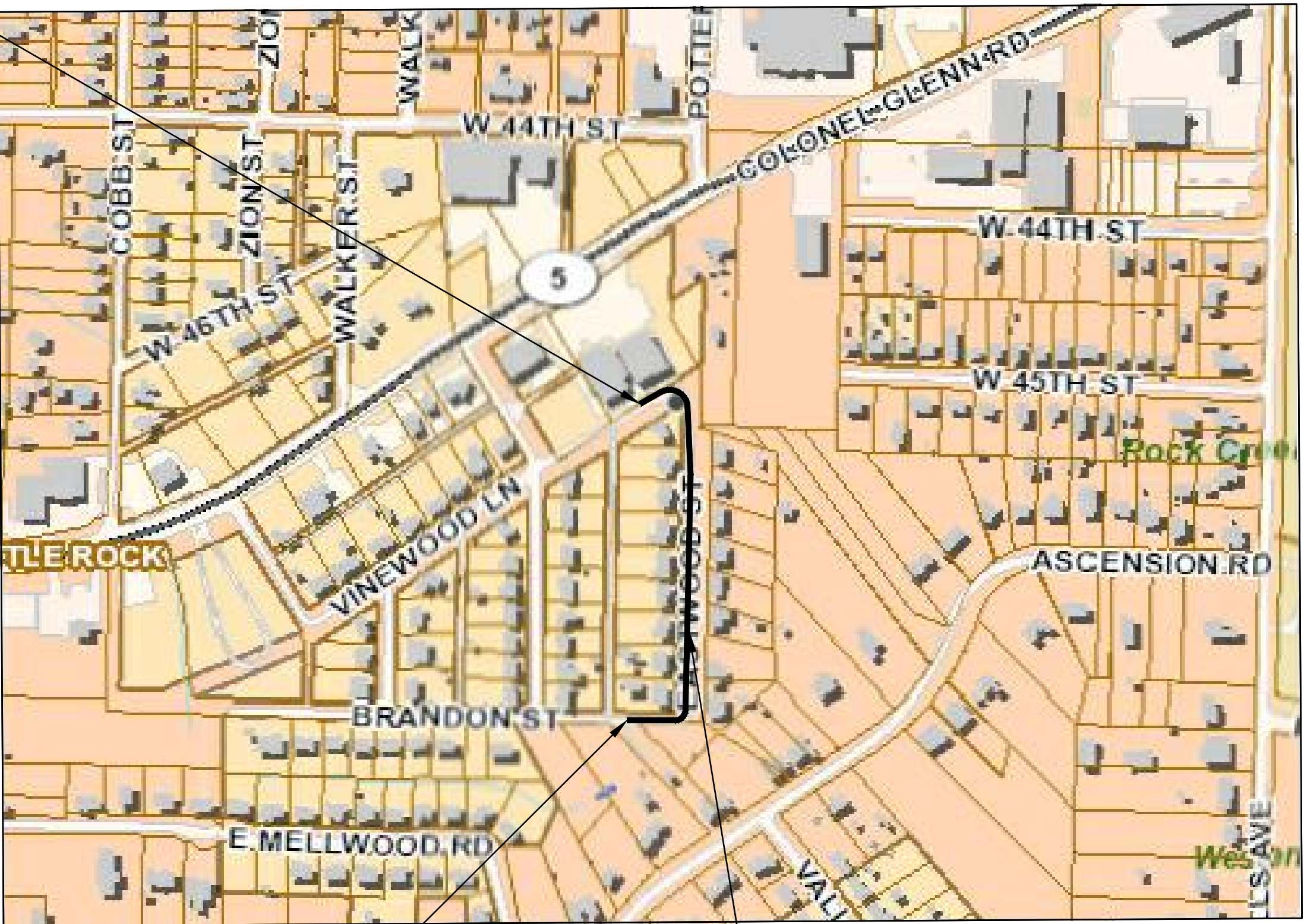
RECONSTRUCTION

(BRANDON STREET TO VINEWOOD LANE)



PROJECT LOCATION – WARD 7

END PROJECT
EASTWOOD ST
CL STATION 18+53.38
NORTHING 137869.53
EASTING 1202640.96



PROJECT
LOCATION

BEGIN PROJECT
EASTWOOD ST
CL STATION 9+70.15
NORTHING 137153.47
EASTING 1202663.50

2019-2021
BOND PROGRAM

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

SHEET NO.	TITLE
C1	COVER SHEET
C2	GENERAL NOTES, LEGEND AND QUANTITIES
C3	TYPICAL SECTION
C4	PLAN AND PROFILE (SHEET 1 OF 2)
C5	PLAN AND PROFILE (SHEET 2 OF 2)
C6	CROSS SECTIONS (SHEET 1 OF 3)
C7	CROSS SECTIONS (SHEET 2 OF 3)
C8	CROSS SECTIONS (SHEET 3 OF 3)
C9	DRIVEWAY DETAILS (SHEET 1 OF 3)
C10	DRIVEWAY DETAILS (SHEET 2 OF 3)
C11	DRIVEWAY DETAILS (SHEET 3 OF 3)
C12	DRAINAGE AREA MAP
C13	PROJECT LAYOUT (SHEET 1 OF 2)
C14	PROJECT LAYOUT (SHEET 2 OF 2)
C15	EROSION CONTROL (SHEET 1 OF 2)
C16	EROSION CONTROL (SHEET 2 OF 2)



Know what's below.
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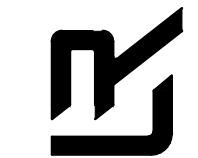
1701 CENTERVIEW DR., SUITE 117
LITTLE ROCK, AR 72211
OFFICE: 501-215-5807 FAX: 501-227-8302
WWW.ICONICCG.COM

REVISIONS DATE

CITY OF LITTLE ROCK, ARKANSAS
EASTWOOD STREET RECONSTRUCTION

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



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DATE
09/17/2019
SCALE
N.T.S.
PROJECT NO.
07-17-ST-293
SHEET NO.
C1

	CLR PROJECT 07-17-ST-293		
	EASTWOOD STREET RECONSTRUCTION		
	15-Sep-19		
ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY
2.01	SITE PREPARATION	LS	1
3.01	UNCLASSIFIED EXCAVATION	CY	192
4.01	AGGREGATE BASE COURSE (CLASS 7)	TON	674
5.01	TACK COAT (0.10 GAL/SY)	GAL	197
6.01	ACHM SURFACE COURSE	TON	111
7.04	CONCRETE DRIVE 6"	SF	4698
8.01	CONCRETE CURB & GUTTER (CLASS 3)	LF	1610
9.01	CONCRETE SIDEWALK, 4" THICK	SF	145
10.02	CURB INLET-4' BOX	EA	4
13.18	STORM DRAIN PIPE, 18" RCP	LF	408
13.24	STORM DRAIN PIPE, 24" RCP	LF	103
14.01	SOLID SODDING (BERMUDA)	SY	358
16.01	MAINTENANCE OF TRAFFIC	LS	1
17.01	CUT AND REPAIR EXISTING STREET SURFACE	SY	46
18.50	ACCESS RAMP- TYPE 3	SF	81
19.01	FINAL CLEAN-UP	LS	1
24.02	CHECK DAM (CD)	CY	13
24.06	SEDIMENT BARRIER, SILT FENCE (SD1)	EA	5
24.09	SEDIMENT BARRIER, BLOCK (SD4)	EA	2
	DISTURBED AREA STABILIZATION - PERMANENT GRASSING		
24.18	(TS3)	AC	0.60
49.00	TOP SOIL (4" THICK)	CY	321
52.00	PROJECT INFORMATION KIOSK	LS	1

EXISTING	PROPOSED
IRON ROD	PROPOSED CONTOUR
PK NAIL	PROPOSED SPOT ELEVATION
R.R. SPIKE	PROPOSED SPOT CURB ELEVATION
CONC. MONUMENT	STORM SEWER – PIPE
WATER VALVE	STORM SEWER – MITERED END SECTION
WATER METER	STORM SEWER – GRATE INLET
FIRE HYDRANT	STORM SEWER – JUNCTION BOX
GAS METER	STORM SEWER – FLARED END SECTION
GAS VALVE	STORM SEWER – HEADWALL
CLEAN-OUT	STORM SEWER – SINGLE WING
GUARD POST (BOLLARD)	STORM SEWER – DOUBLE WING
SIGN POST	STORM SEWER – AREA INLET
BENCHMARK	GRADE BREAK LINE
STORM SEWER MANHOLE	HIGH POINT
SANITARY SEWER MANHOLE	LOW POINT
TELEPHONE MANHOLE	CUT LINE
ELECTRIC MANHOLE	FILL LINE
TELEPHONE BOX	SANITARY SEWER PIPE
ELECTRIC BOX	SANITARY SEWER MANHOLE
CABLE BOX	PROPOSED CURB
UTILITY POLE	PROPOSED CONCRETE
GUY WIRE	CONSTRUCTION – ENTRANCE/EXIT
LIGHT POLE	CHECK DAM
POST OR POLE (TYPE AS NOTED)	DIVERSION BERM
MAILBOX	DOWNDRAIN STRUCTURE – TEMPORARY
DECIDUOUS TREE	ROCK DAM
EVERGREEN/CONIFEROUS TREE	SEDIMENT BARRIER – SILT FENCE
BUSH	SEDIMENT BARRIER – GRAVEL RING
PROPERTY LINE	SEDIMENT BARRIER – BLOCK & GRAVEL
SETBACK LINE	SEDIMENT BARRIER – BLOCK
EASEMENT LINE	TEMPORARY SEDIMENT BASIN
CURB	SILT FENCE – TYPE A
FENCE	SILT FENCE – TYPE B
OVERHEAD ELECTRIC	SILT FENCE – TYPE C
OVERHEAD TELEPHONE	STORM DRAIN OUTLET PROTECTION
OVERHEAD CABLE	SURFACE ROUGHENING
UNDERGROUND TELEPHONE	DISTURBED AREA STABILIZATION –TEMPORARY STABILIZATION
UNDERGROUND ELECTRIC	DISTURBED AREA STABILIZATION –TEMPORARY GRASSING
UNDERGROUND CABLE	DISTURBED AREA STABILIZATION –PERMANENT GRASSING
WATER LINE	MATTING/BLANKETS
SEWER LINE	
GAS LINE	
STORM SEWER/CULVERT	
EDGE OF WOODS	
CONTOUR LINE	

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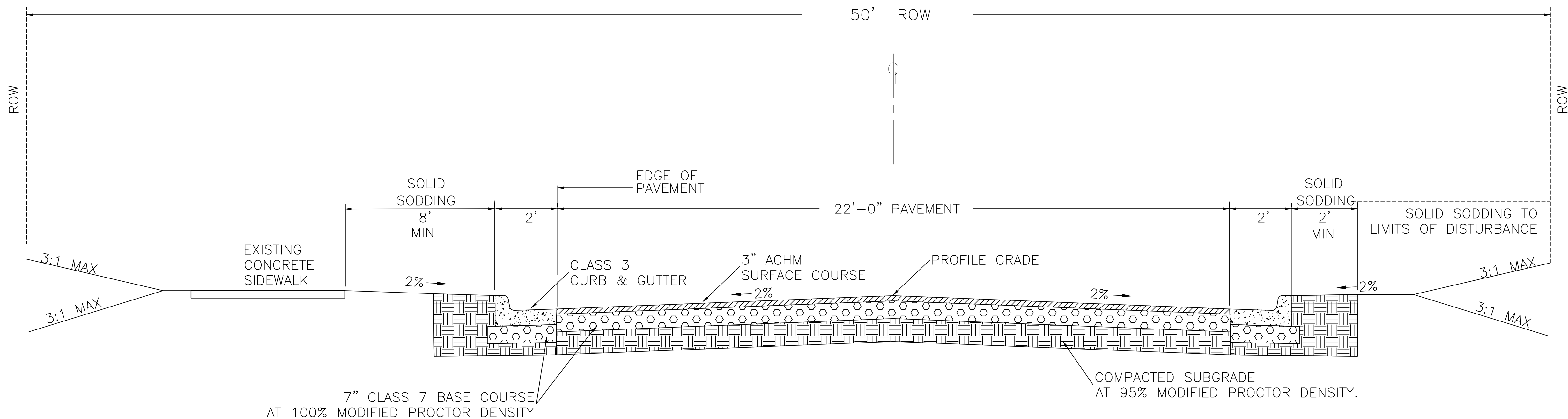
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Date

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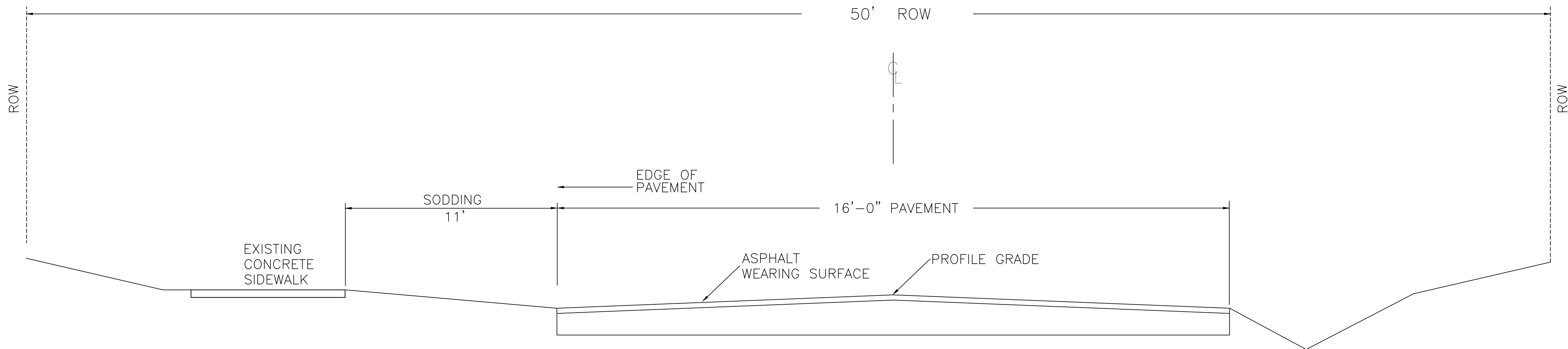
CITY OF LITTLE ROCK, ARKANSAS	GENERAL NOTES, LEGEND AND QUANTITIES
EASTWOOD STREET RECONSTRUCTION	60% PRELIMINARY DESIGN

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

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DESIGNED	BCJ
CHECKED	JEB
DATE	09/17/2019
SCALE	N.T.S.
PROJECT NO.	07-17-ST-293
SHEET NO.	C2



EASTWOOD STREET
TYPICAL PROPOSED SECTION



EASTWOOD STREET
TYPICAL EXISTING SECTION

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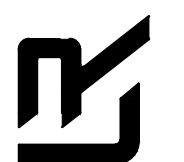
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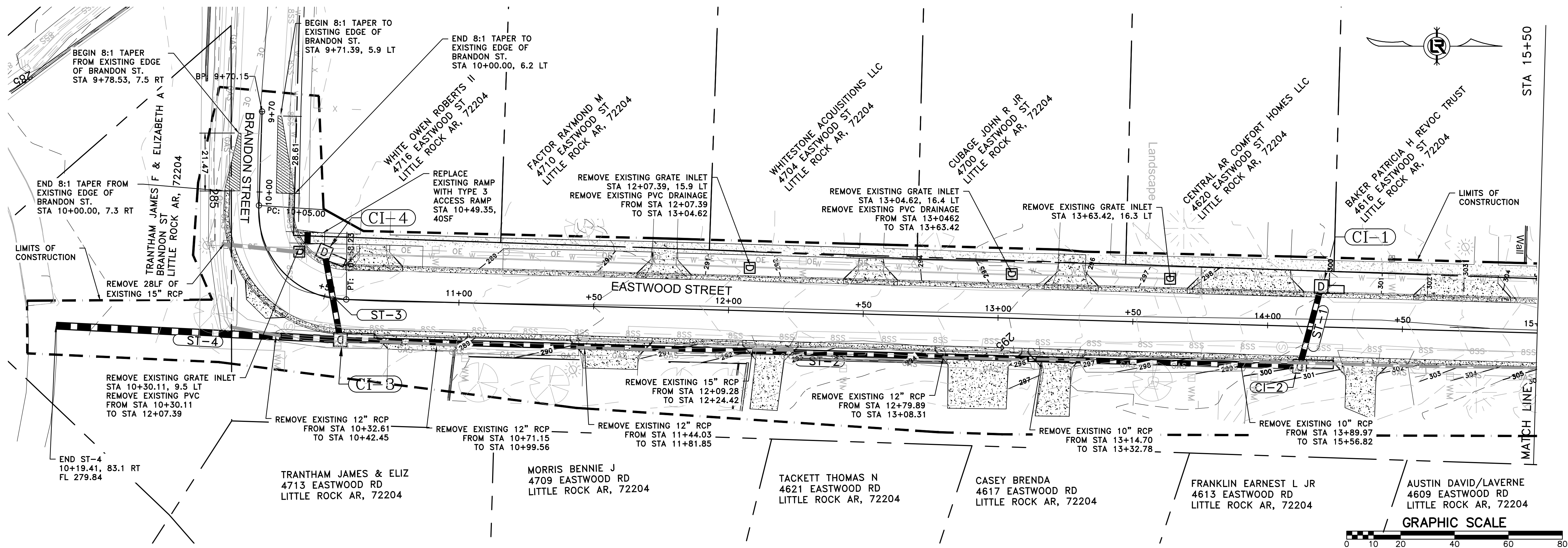
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
EASTWOOD STREET RECONSTRUCTION
TYPICAL SECTION
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DESIGNED BCJ
CHECKED JEB
DATE 09/17/2019
SCALE N.T.S.
PROJECT NO. 07-17-ST-293
SHEET NO. C3

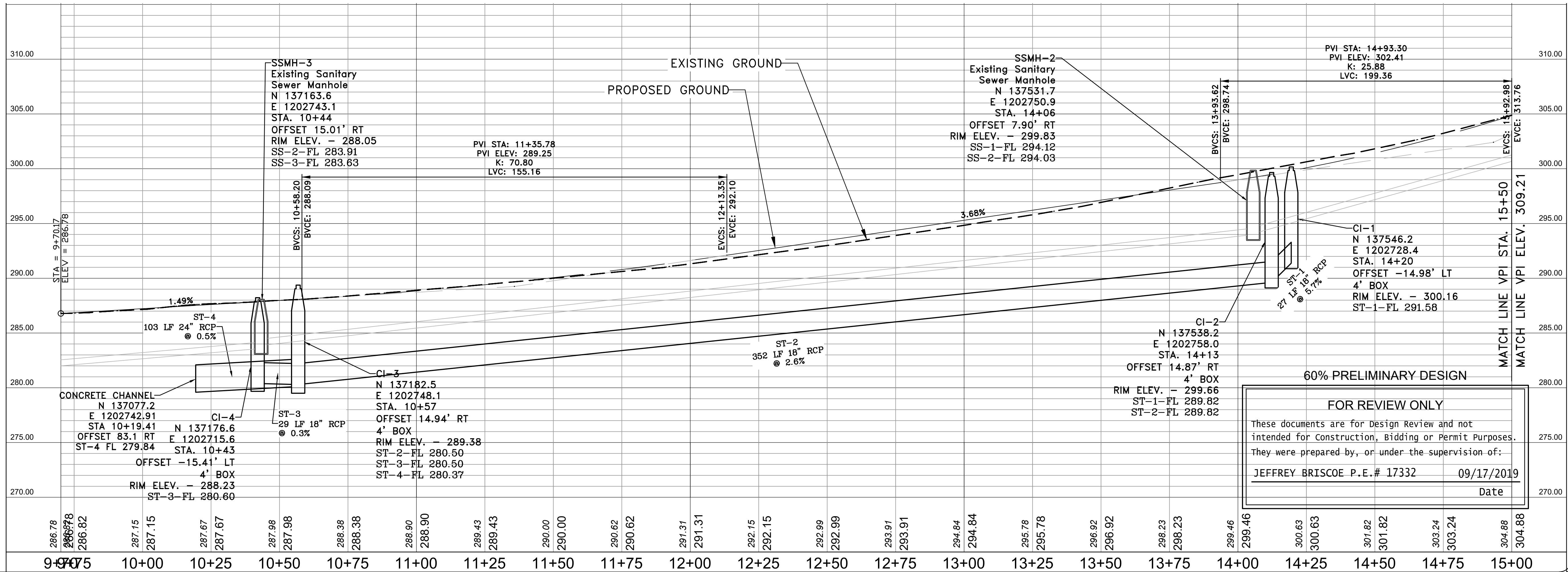


REVISIONS	DATE

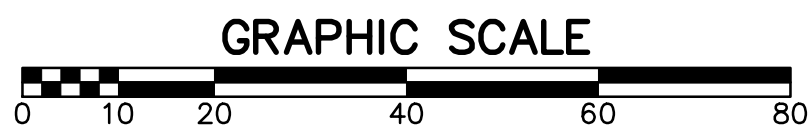
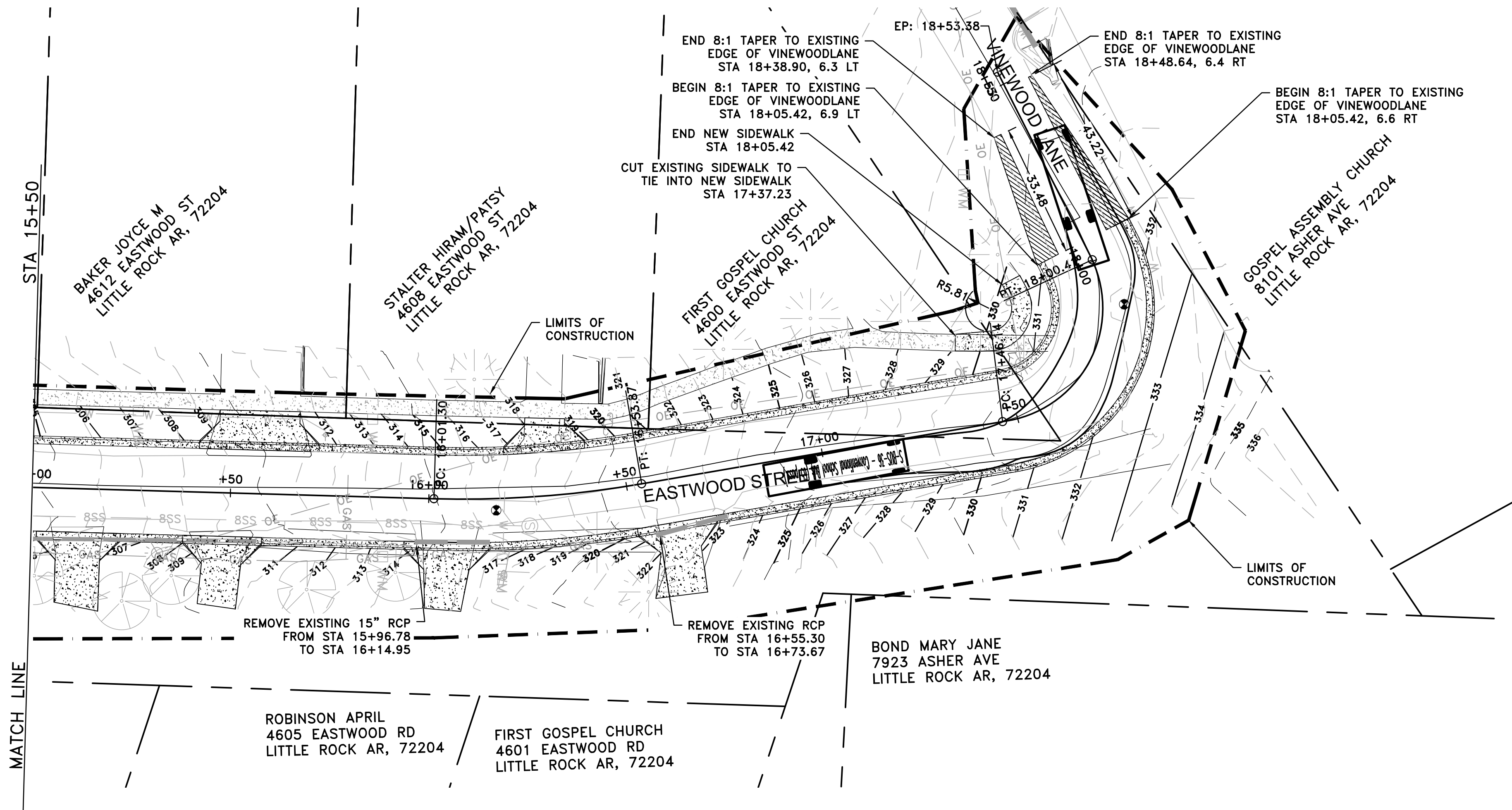
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EASTWOOD STREET RECONSTRUCTION
PLAN AND PROFILE (SHEET 1 OF 2)
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07-17-ST-293
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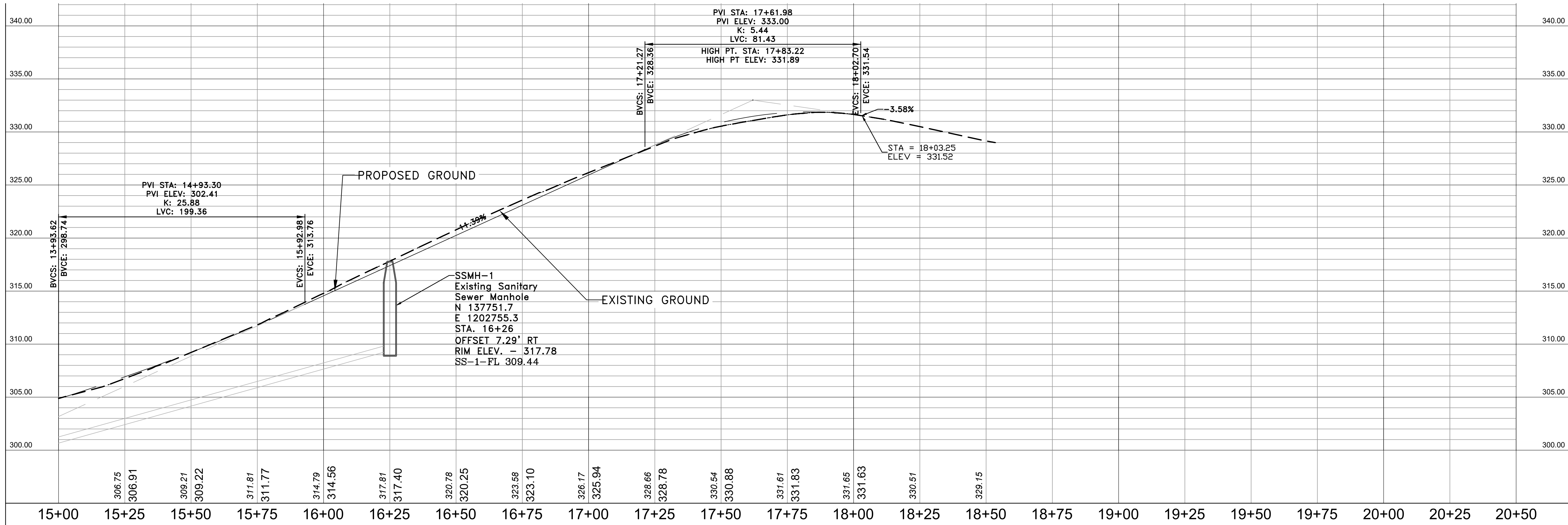
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EASTWOOD STREET RECONSTRUCTION

PLAN AND PROFILE (SHEET 2 of 2)
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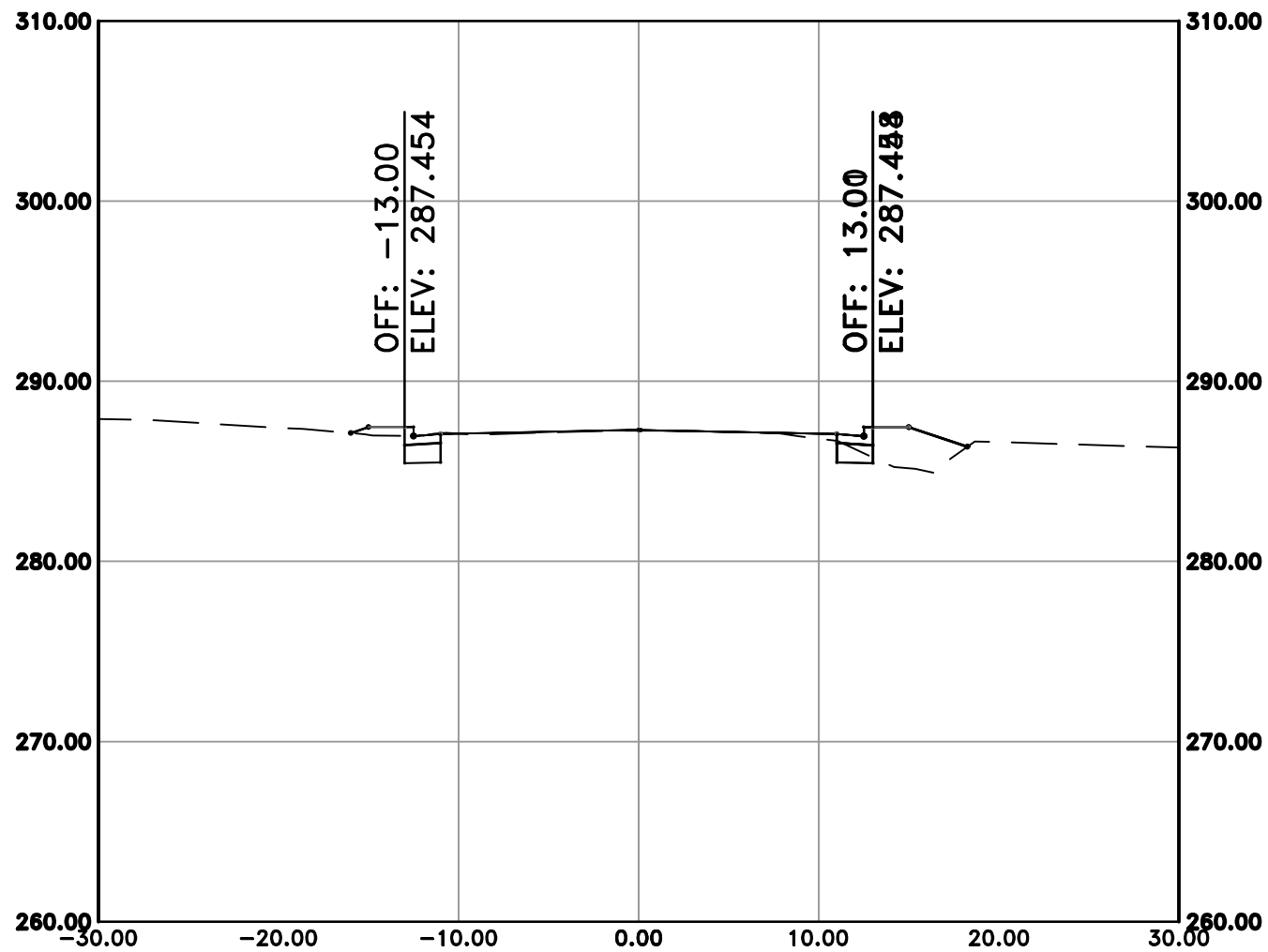
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CIVIL ENGINEERING
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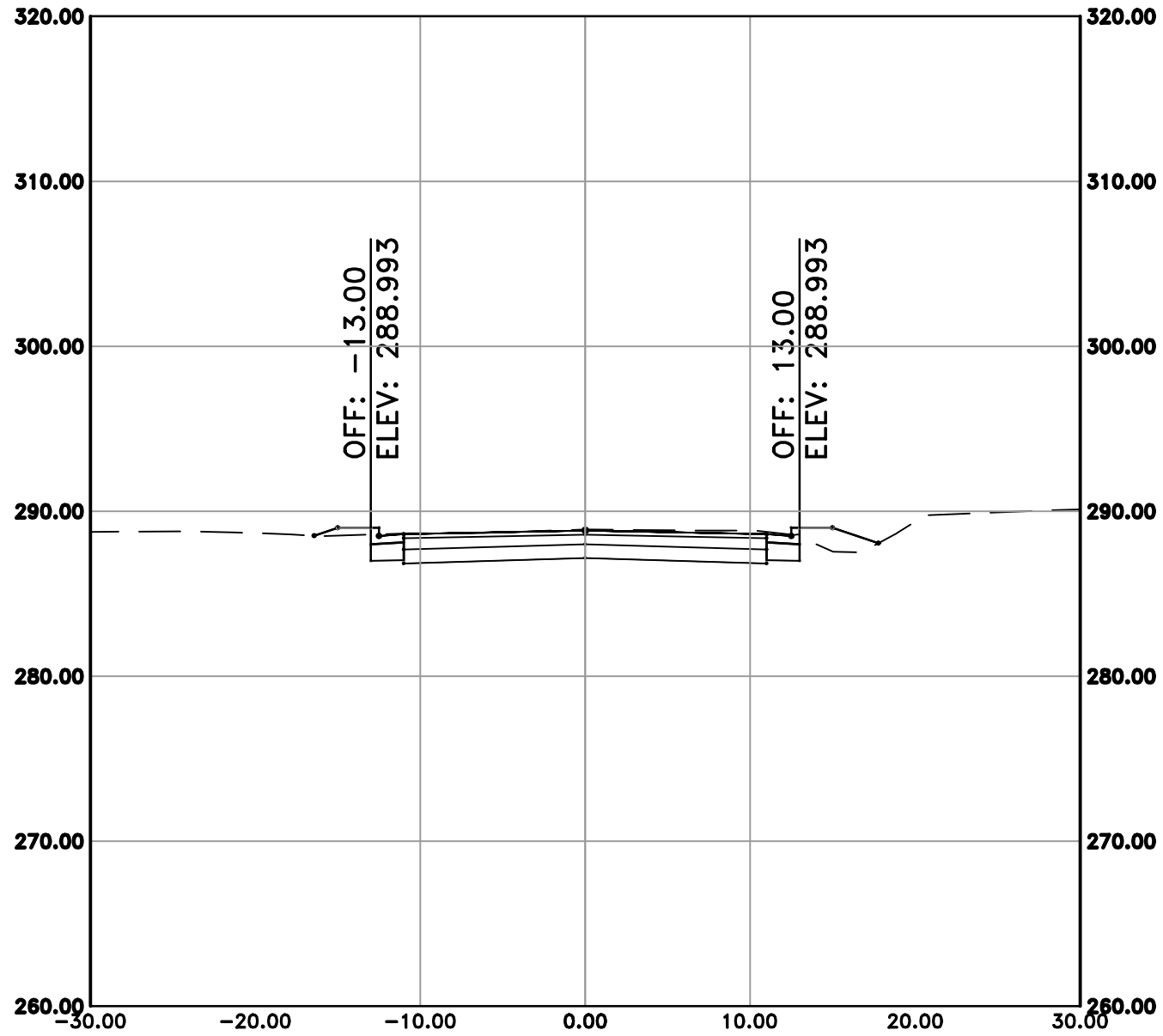
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CHECKED JEB
DATE 09/17/2019
SCALE 1" = 20' H, 1" = 5' V
PROJECT NO. 07-17-ST-293
SHEET NO. C5

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
10+05.00	0.47	13.77	0.00	0.00	0.00	0.00	0.00

10+05.00

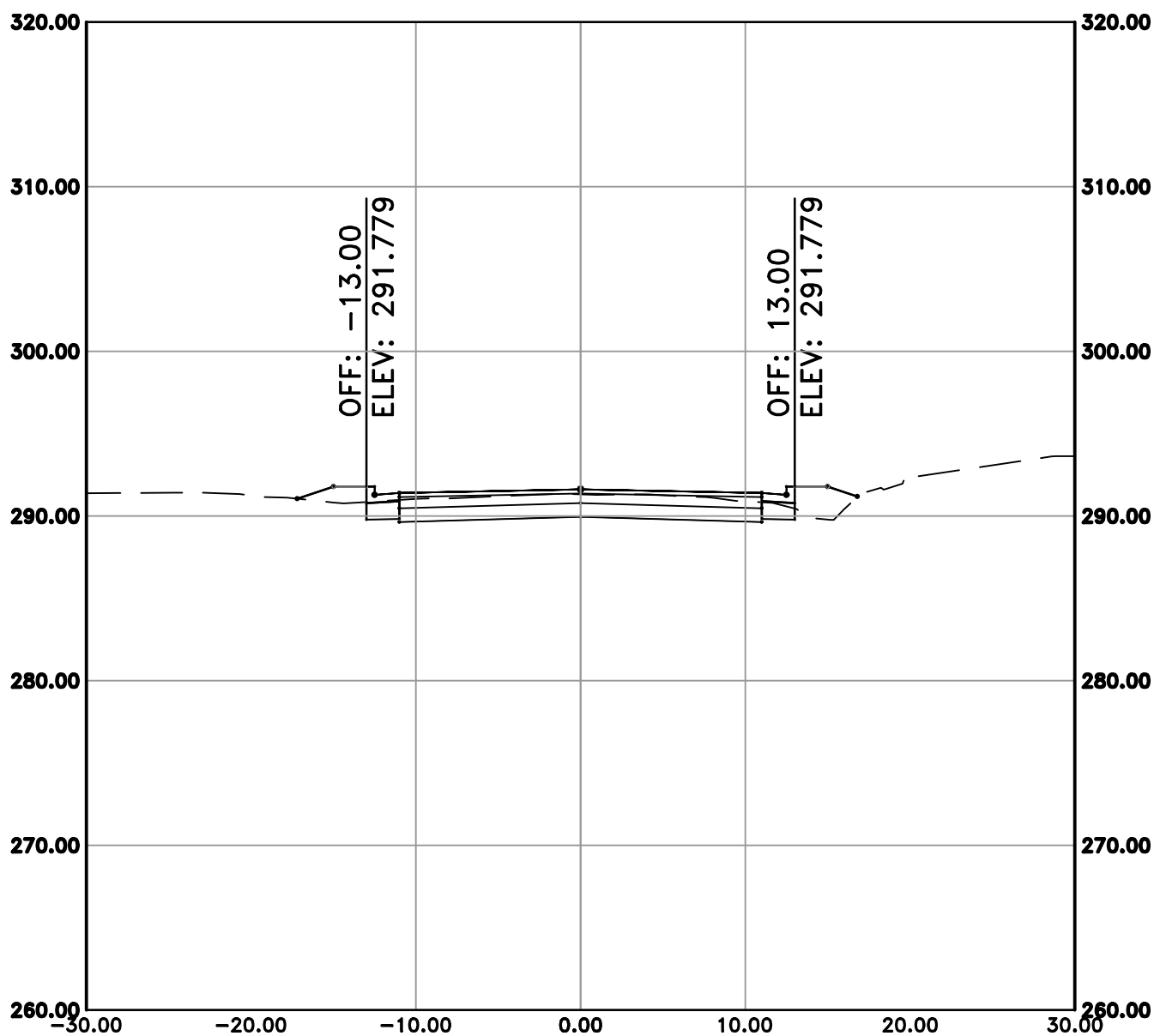


11+00.00



Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
11+00.00	3.44	8.12	3.50	12.52	4.88	38.99	-34.12

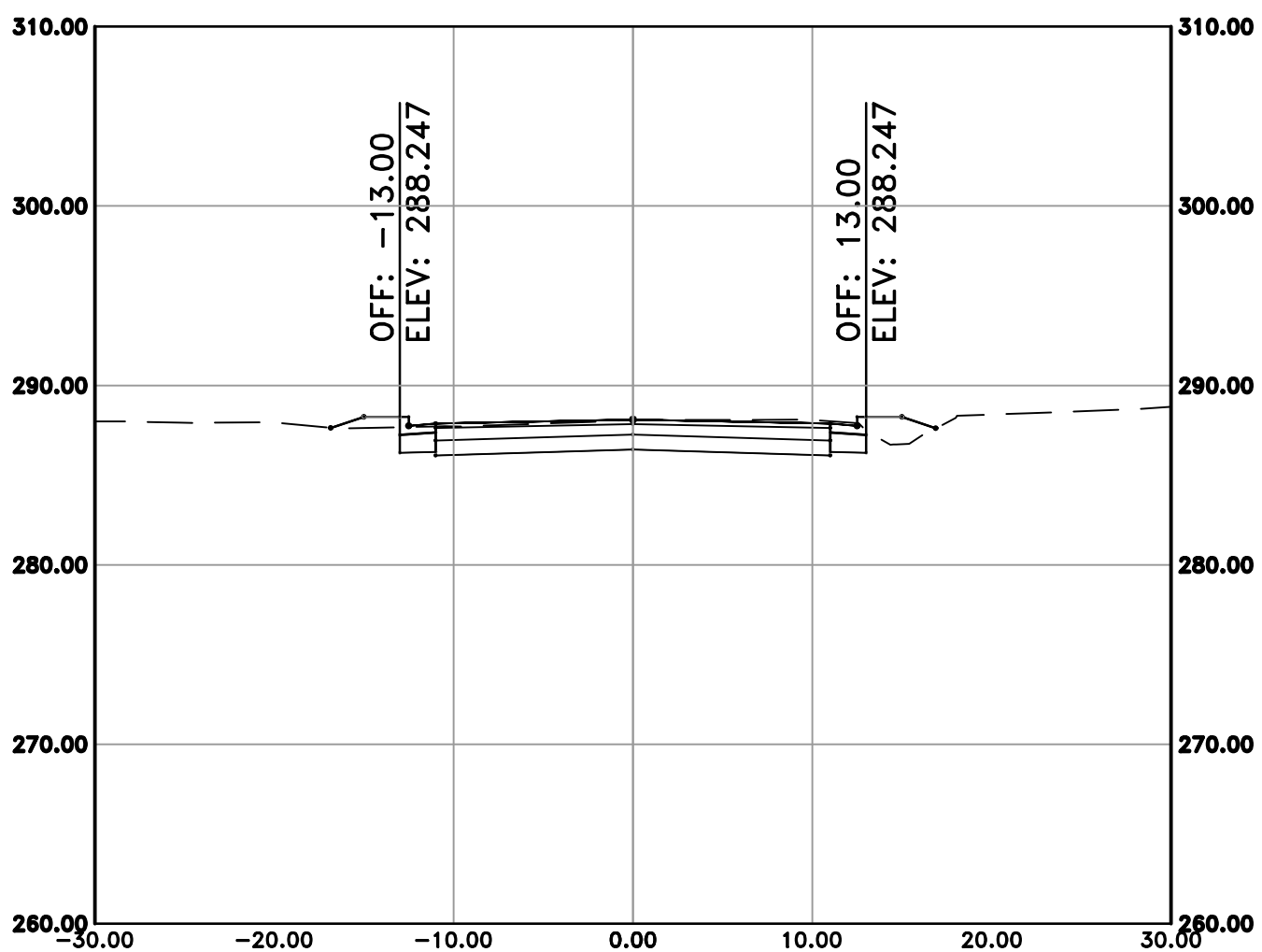
12+00.00



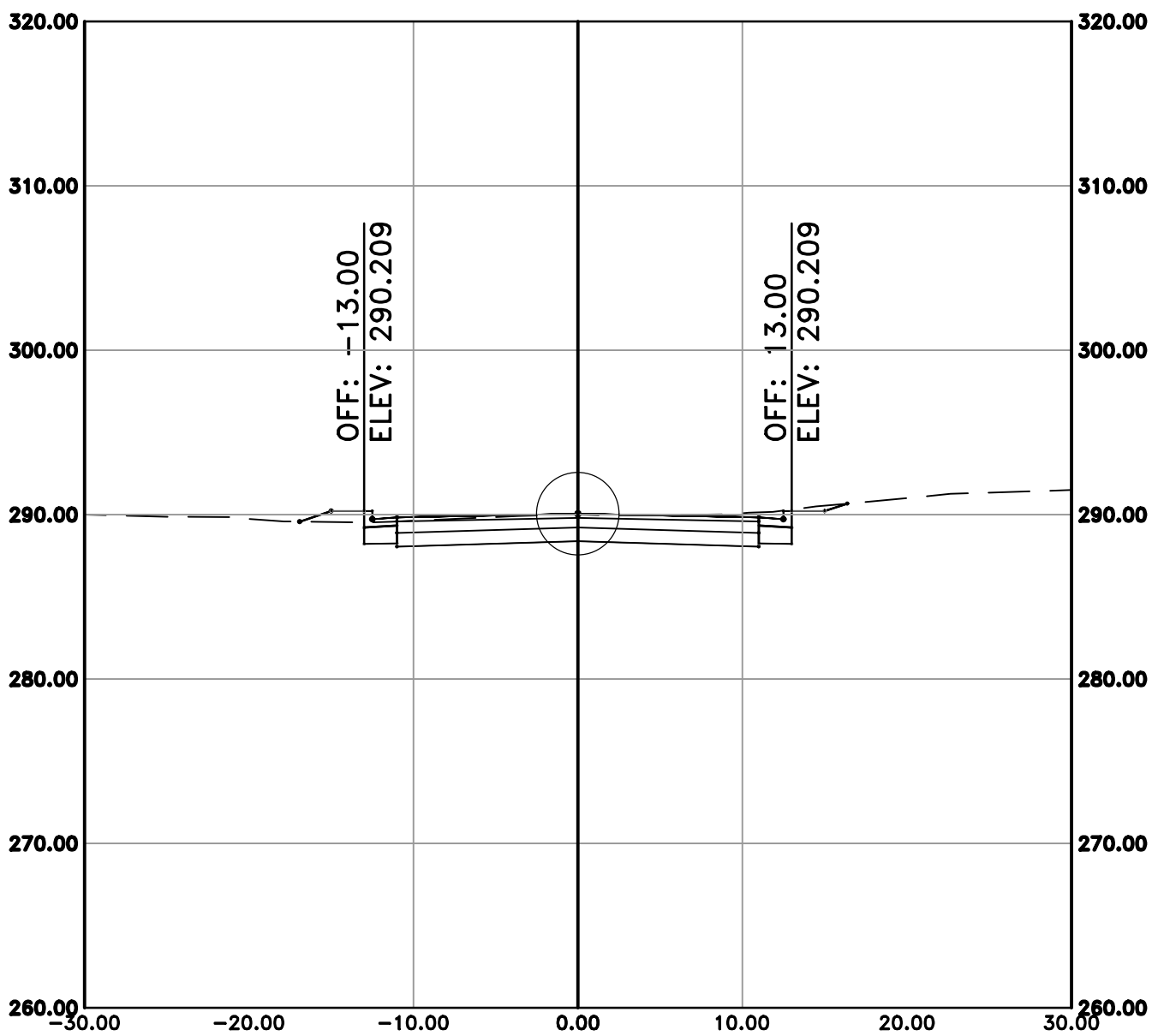
Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
12+00.00	0.02	20.47	3.35	22.83	14.74	73.23	-58.49

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
10+58.23	1.08	8.06	1.38	26.47	1.38	26.47	-25.10

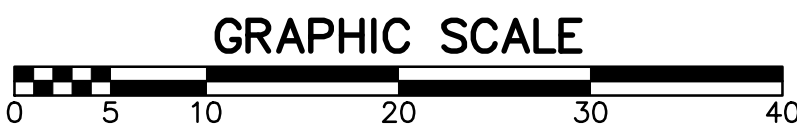
10+58.23



11+50.00



Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
11+50.00	3.60	4.19	6.52	11.40	11.39	50.39	-39.00



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CITY OF LITTLE ROCK, ARKANSAS
EASTWOOD STREET RECONSTRUCTION

CROSS SECTIONS (SHEET 1 OF 3)
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LITTLE ROCK, ARKANSAS 72201



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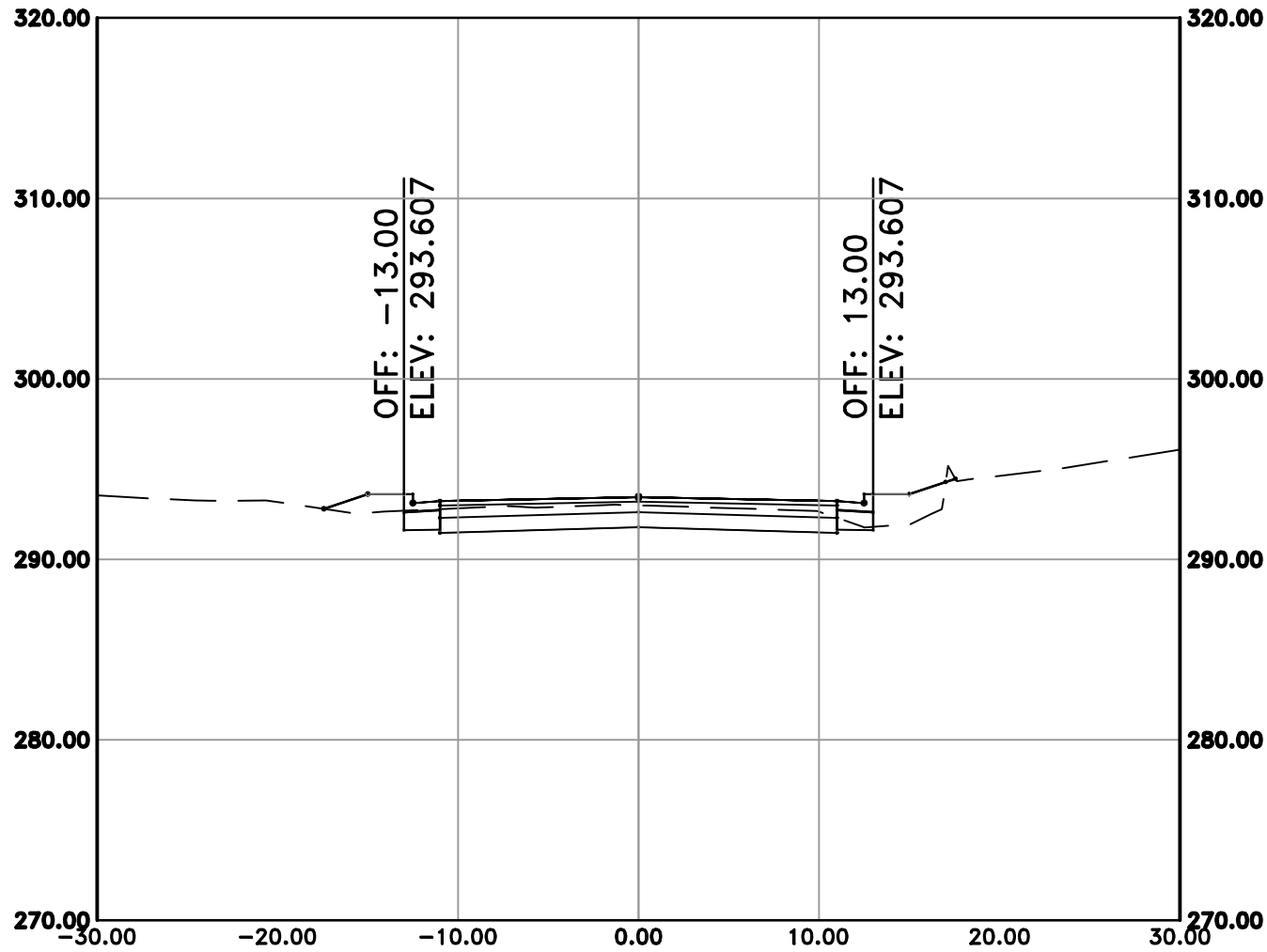
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09/17/2019
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1" = 5'

PROJECT NO.
07-17-ST-293
SHEET NO.

C6

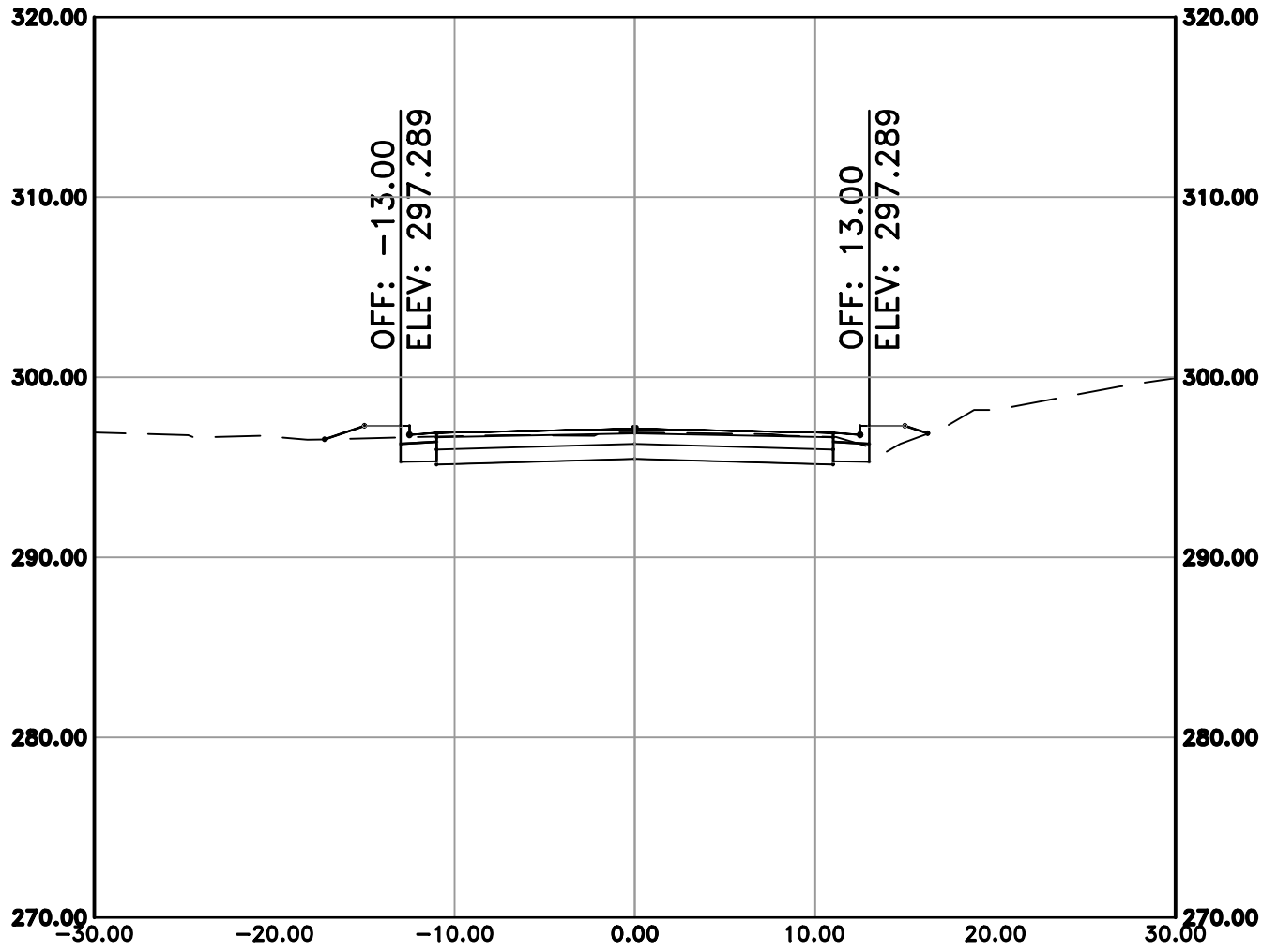
Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
12+50.00	1.41	24.44	1.32	41.58	16.06	114.80	-98.74

12+50.00

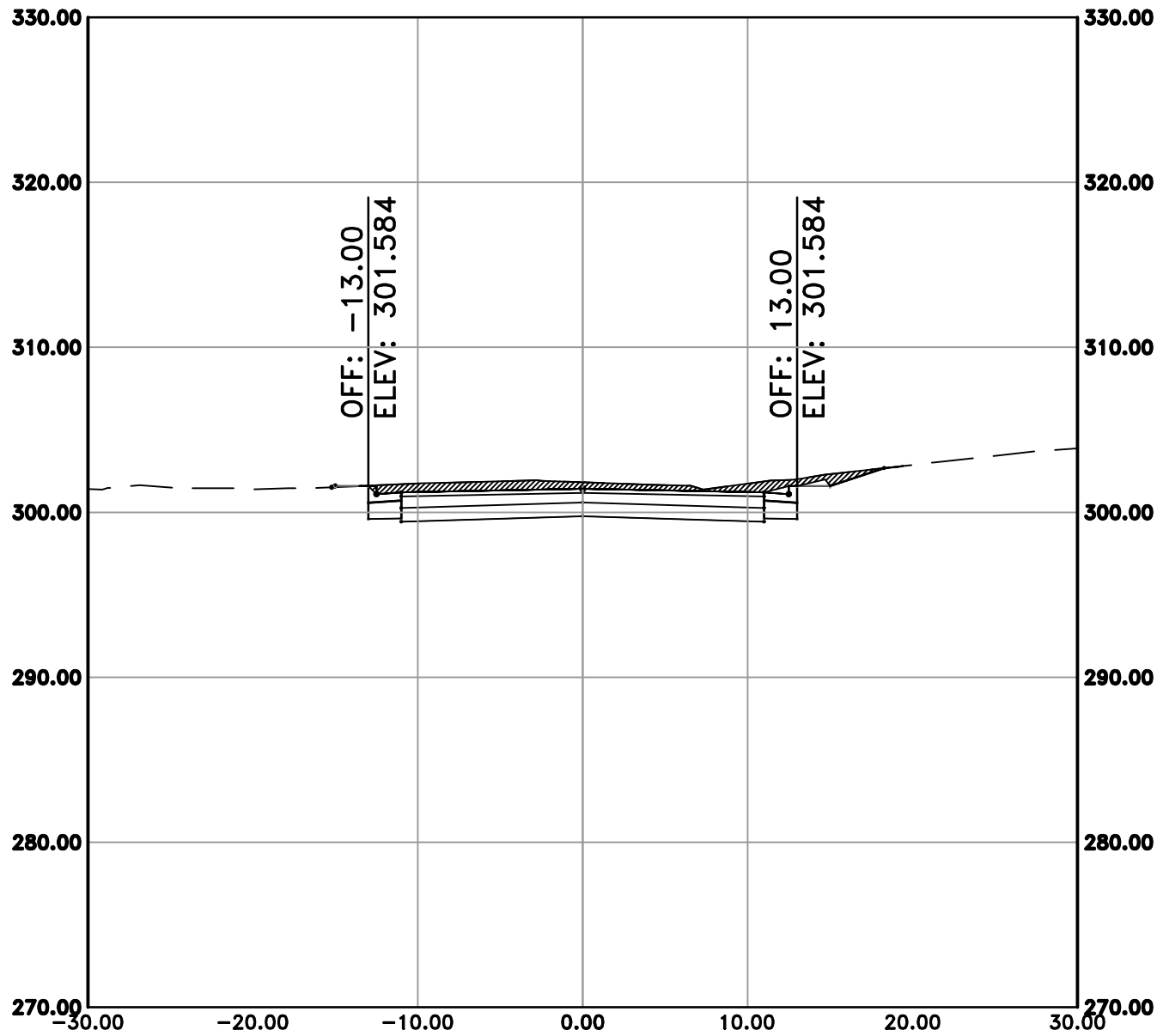


Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
13+50.00	0.30	12.07	1.25	25.92	19.59	178.10	-158.51

13+50.00



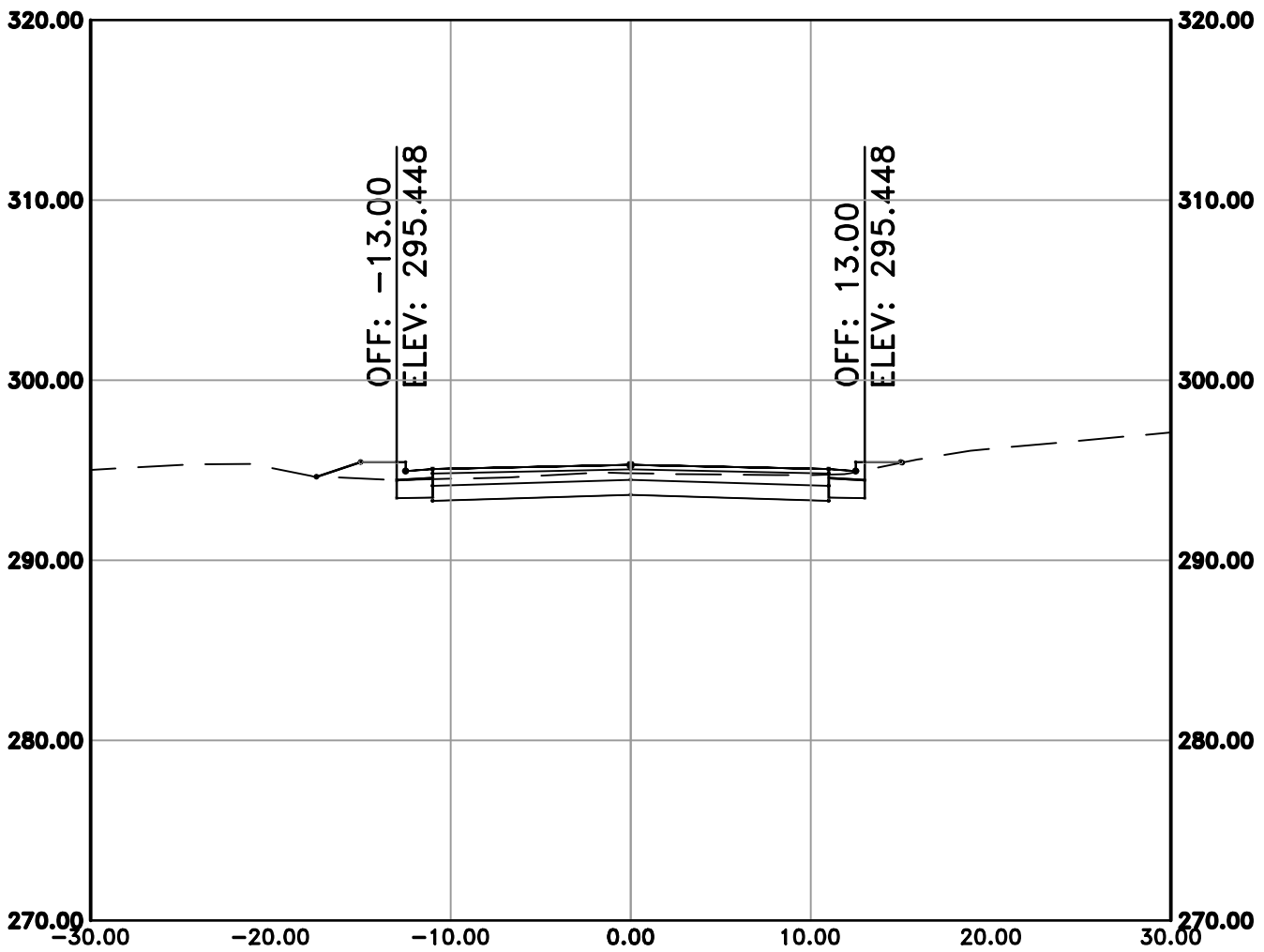
14+50.00



Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
14+50.00	13.34	0.30	28.08	1.90	63.66	192.79	-129.13

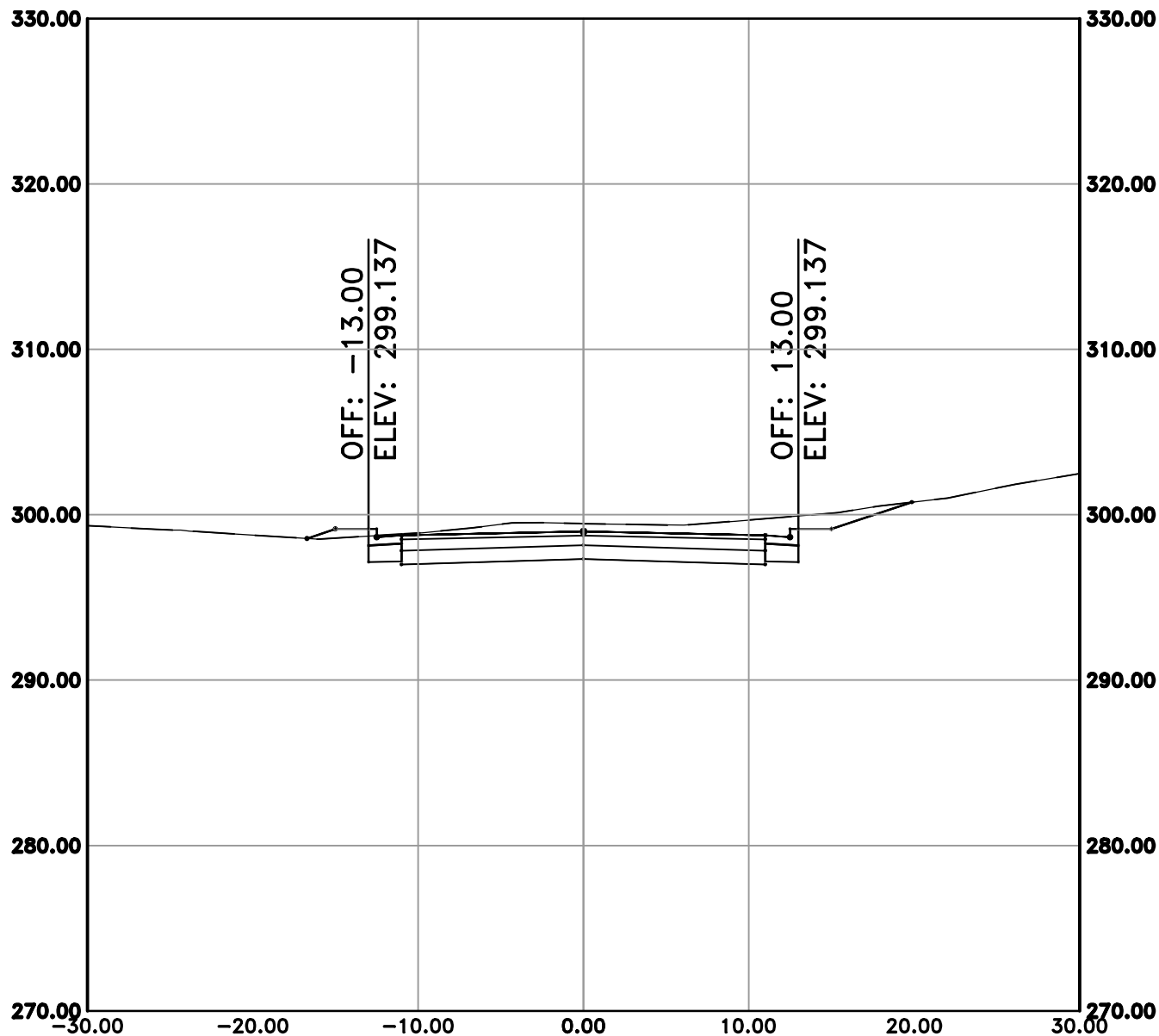
Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
13+00.00	1.05	15.93	2.28	37.38	18.34	152.18	-133.84

13+00.00

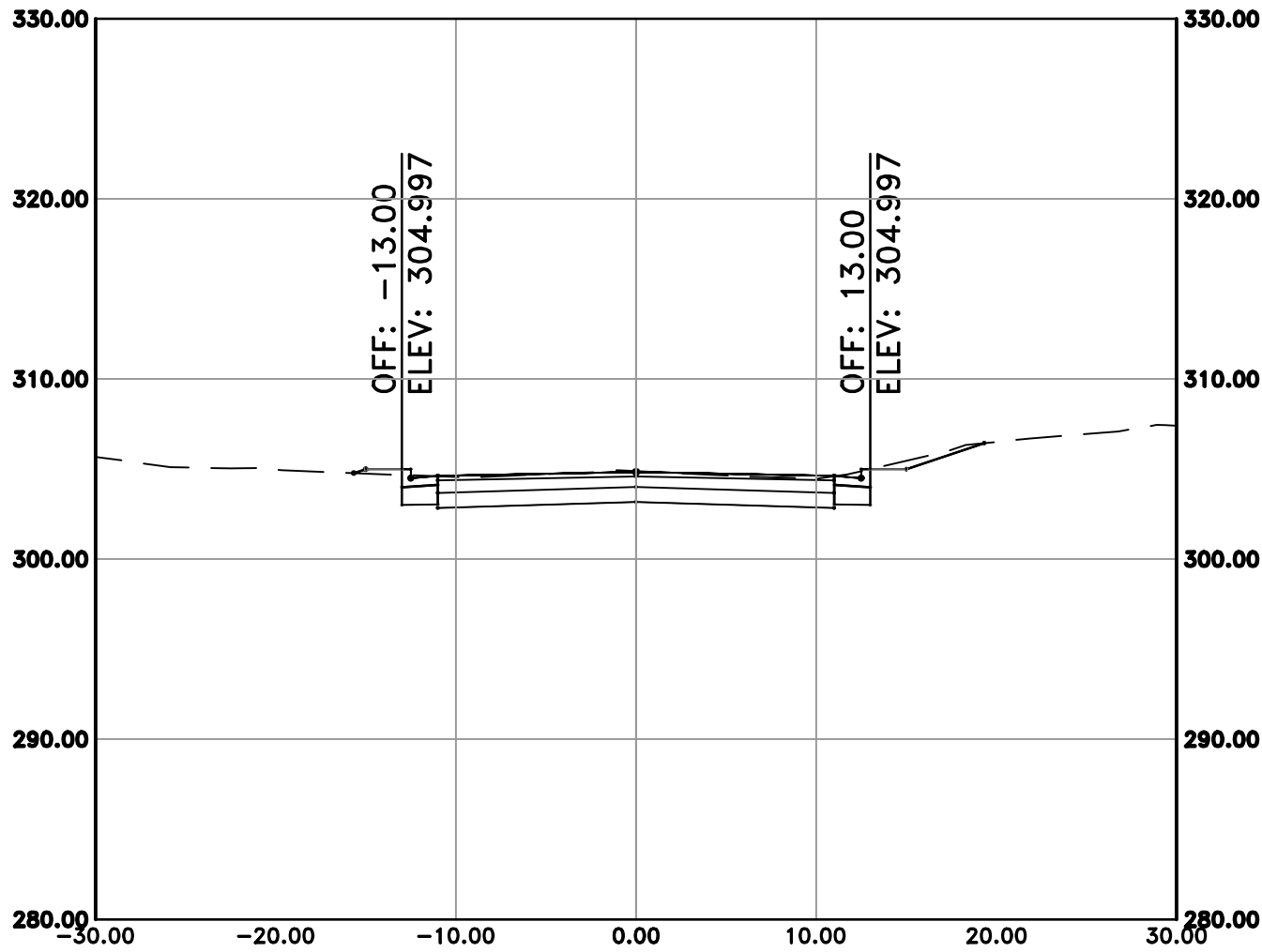


Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
14+00.00	16.98	1.75	16.00	12.79	35.58	190.90	-155.31

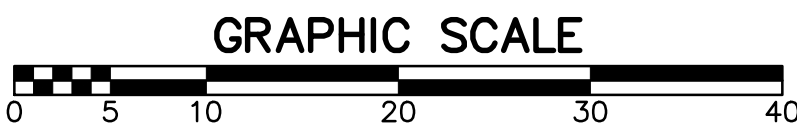
14+00.00



15+00.00



Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
15+00.00	1.66	2.87	13.89	2.94	77.55	195.73	-118.17



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CITY OF LITTLE ROCK, ARKANSAS
EASTWOOD STREET RECONSTRUCTION

CROSS SECTIONS (SHEET 2 OF 3)
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09/17/2019
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PROJECT NO.
07-17-ST-293
SHEET NO.

C7

15+50.00

16+53.87

17+46.14

16+01.30

17+00.00

18+00.41

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
15+50.00	5.37	0.49	6.51	3.11	84.06	198.84	-114.77

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
16+53.87	21.45	1.33	34.71	2.06	138.76	202.07	-63.31

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
17+46.14	4.84	19.96	14.76	22.22	182.60	230.44	-47.84

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
16+01.30	15.67	0.74	19.99	1.17	104.05	200.00	-95.95

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
17+00.00	12.58	5.86	29.07	6.14	167.84	208.21	-40.38

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
18+00.41	0.97	15.35	9.49	23.99	192.09	254.43	-62.34

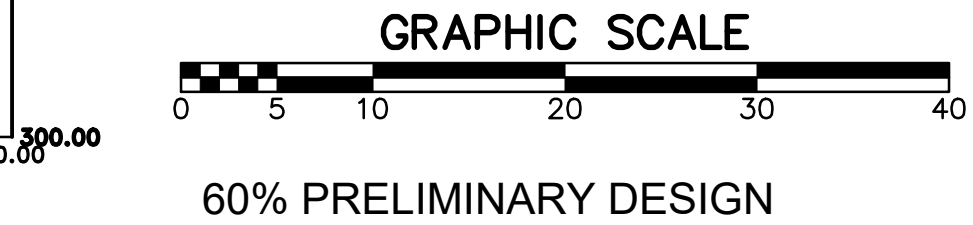
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CITY OF LITTLE ROCK, ARKANSAS
EASTWOOD STREET RECONSTRUCTION
CROSS SECTIONS (SHEET 3 OF 3)
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LITTLE ROCK, ARKANSAS 72201



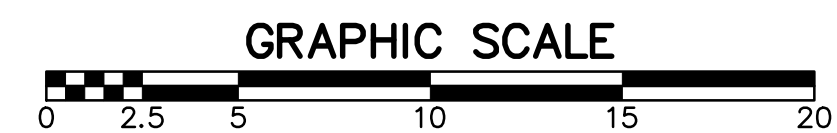
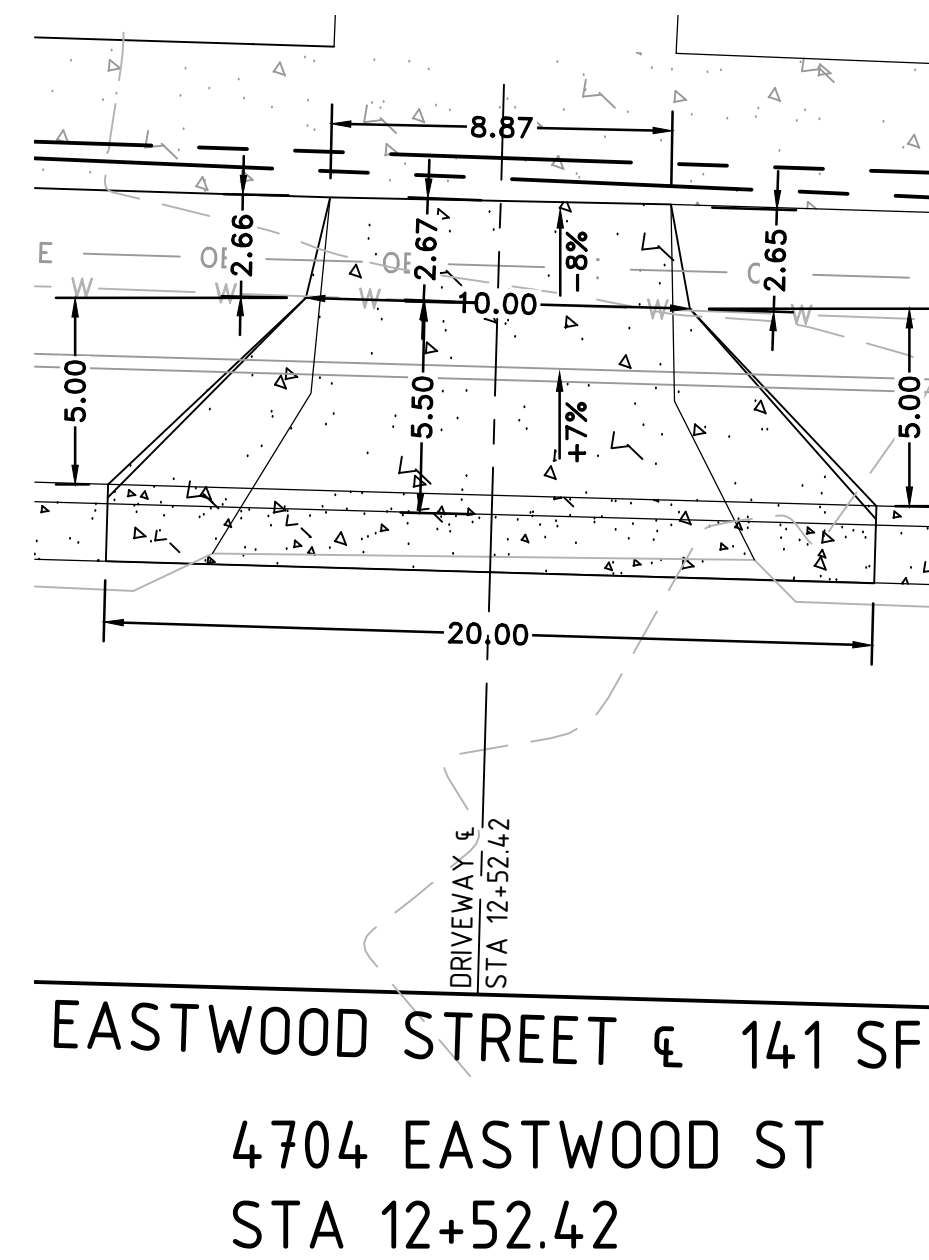
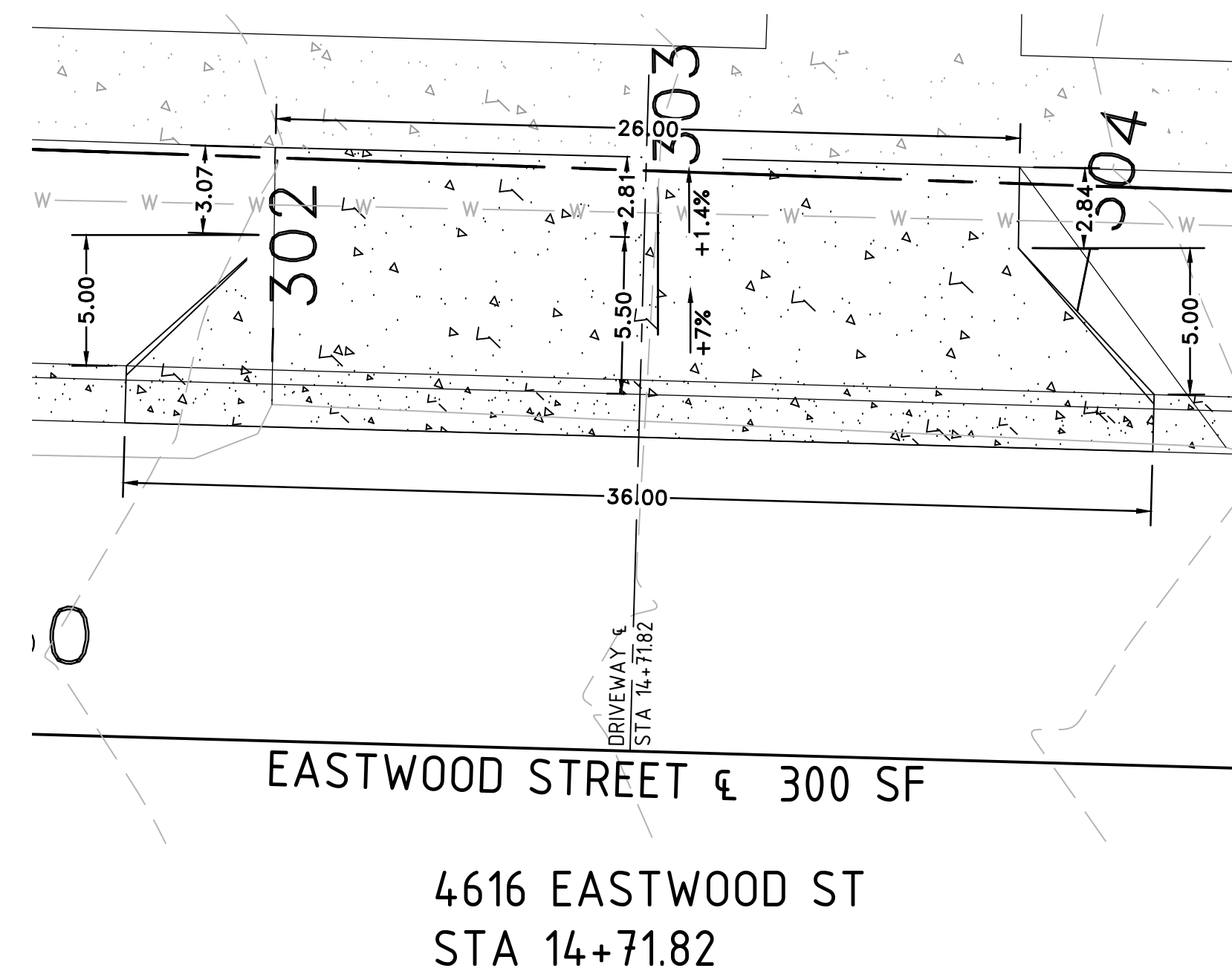
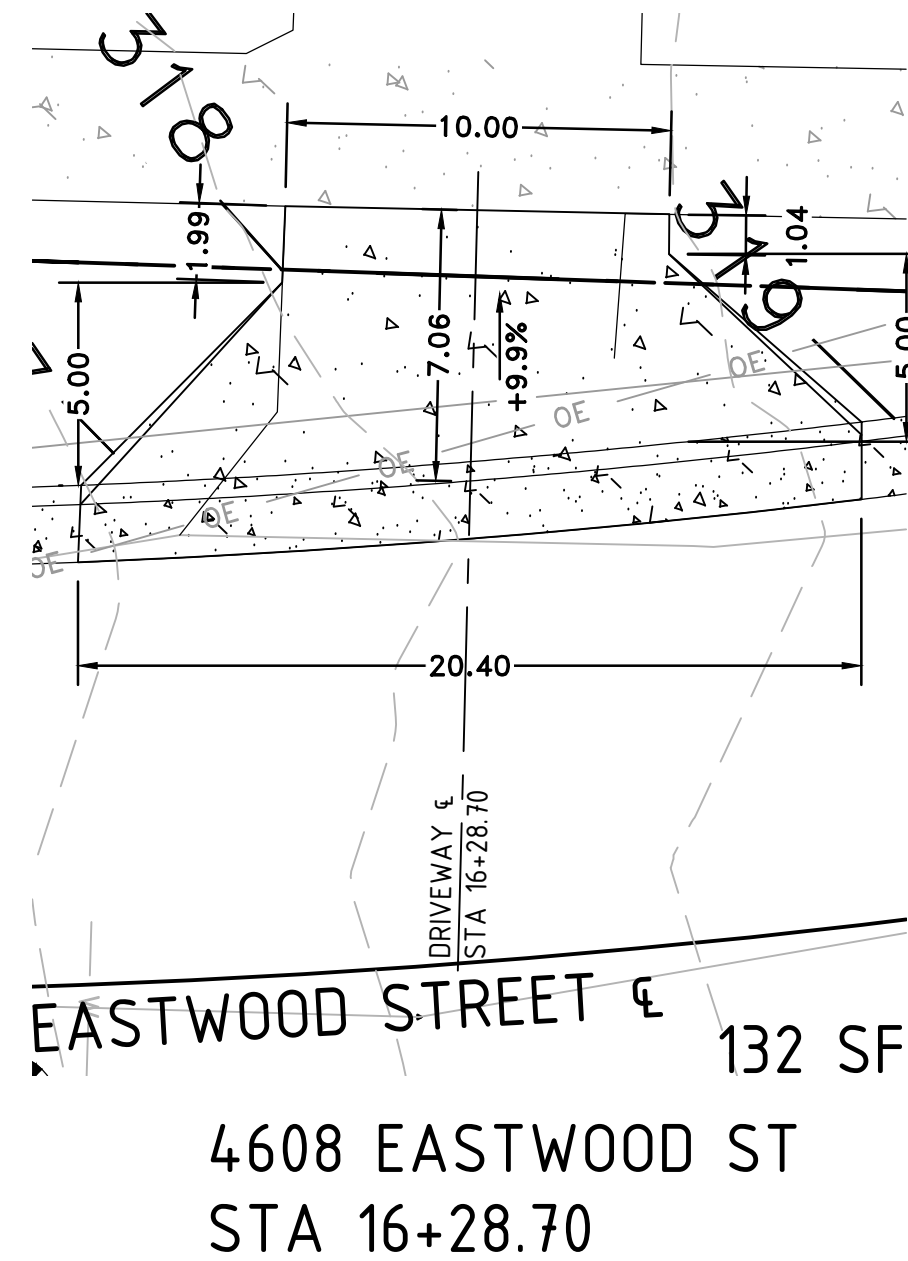
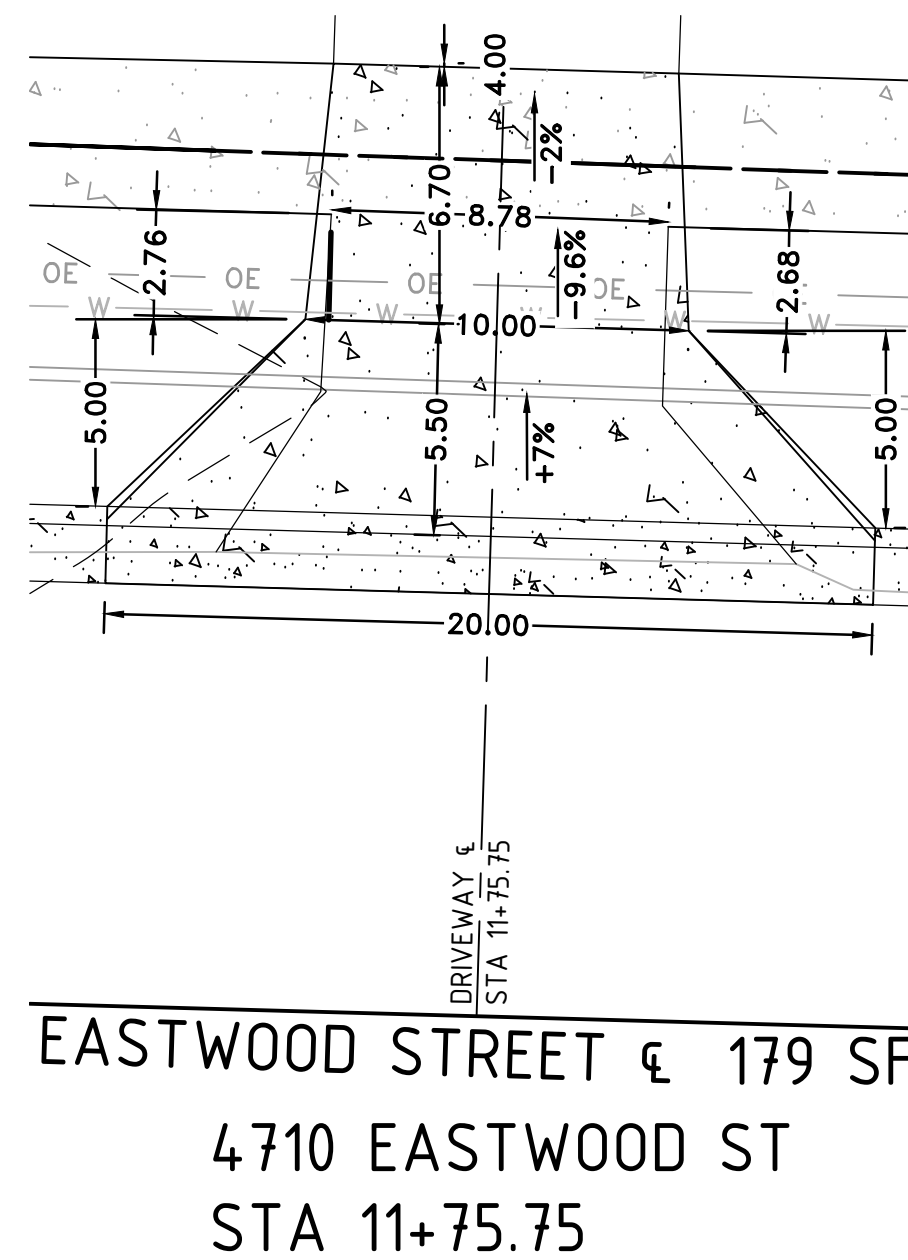
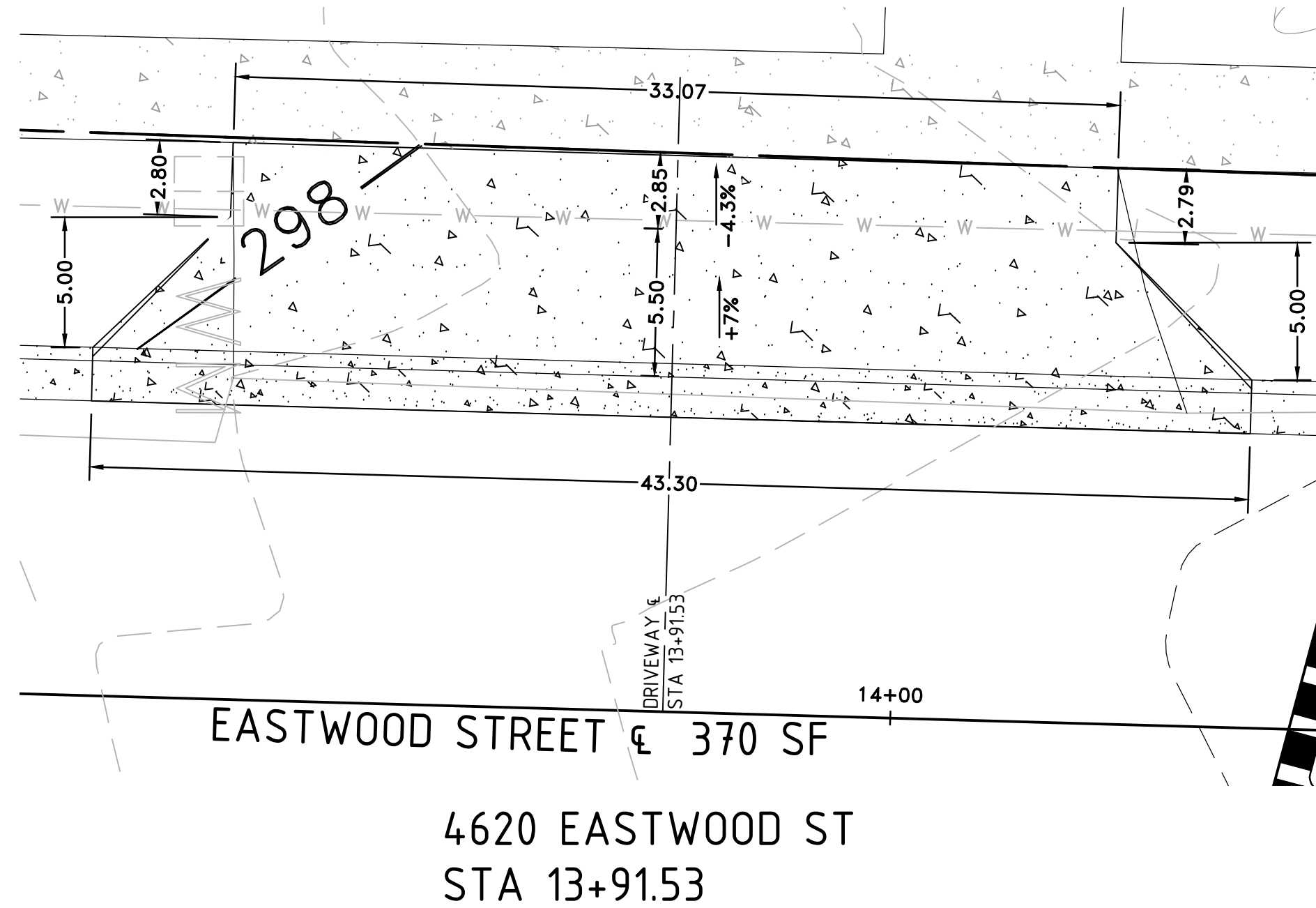
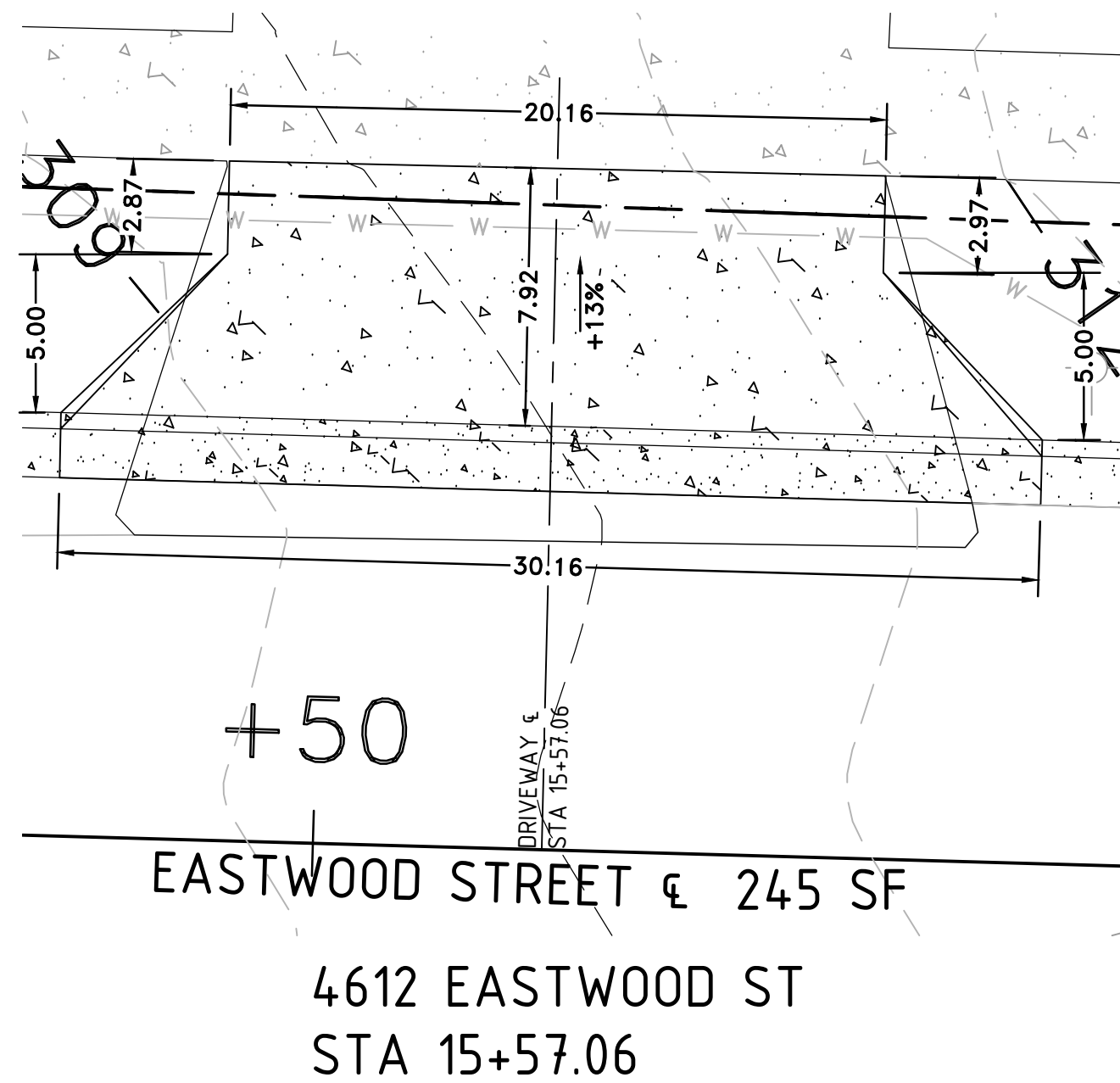
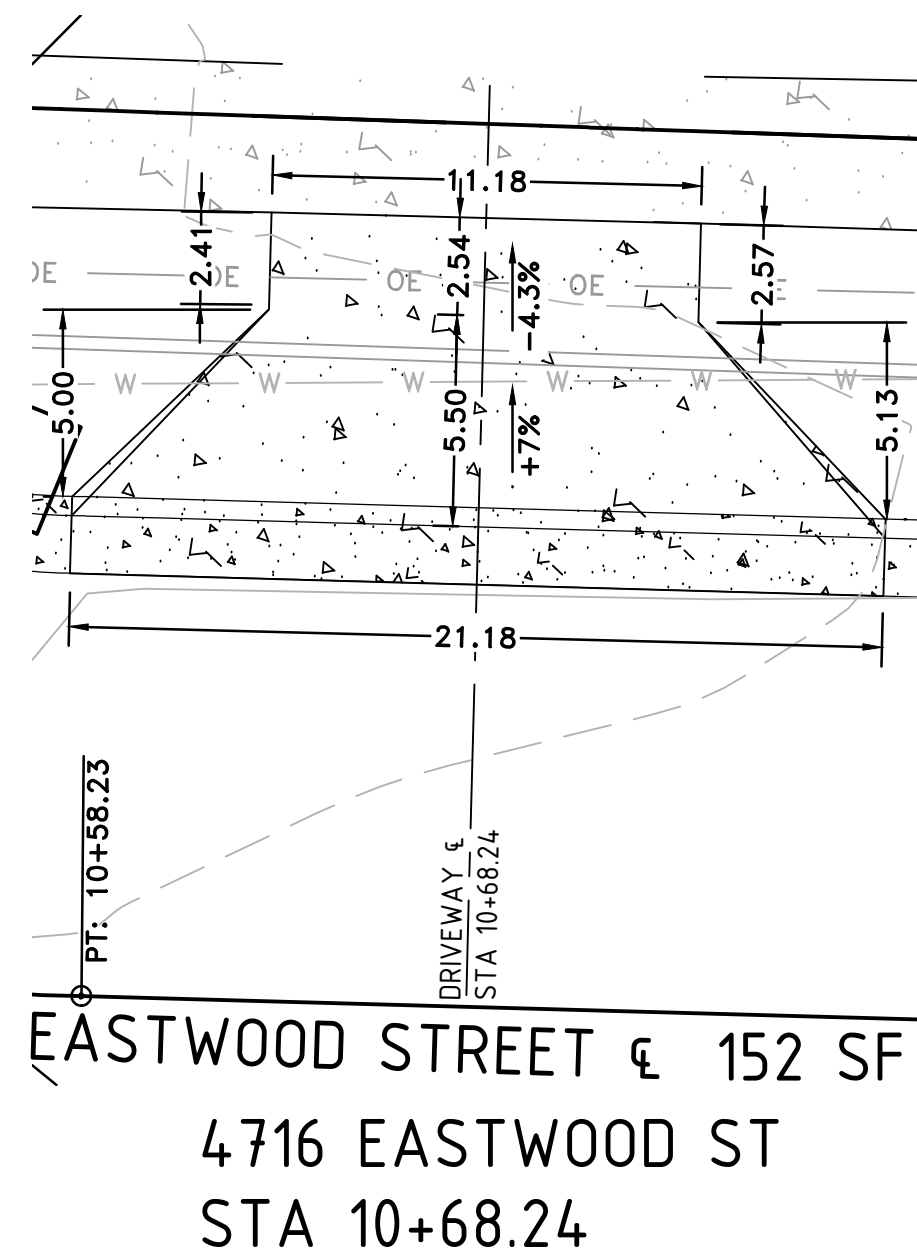
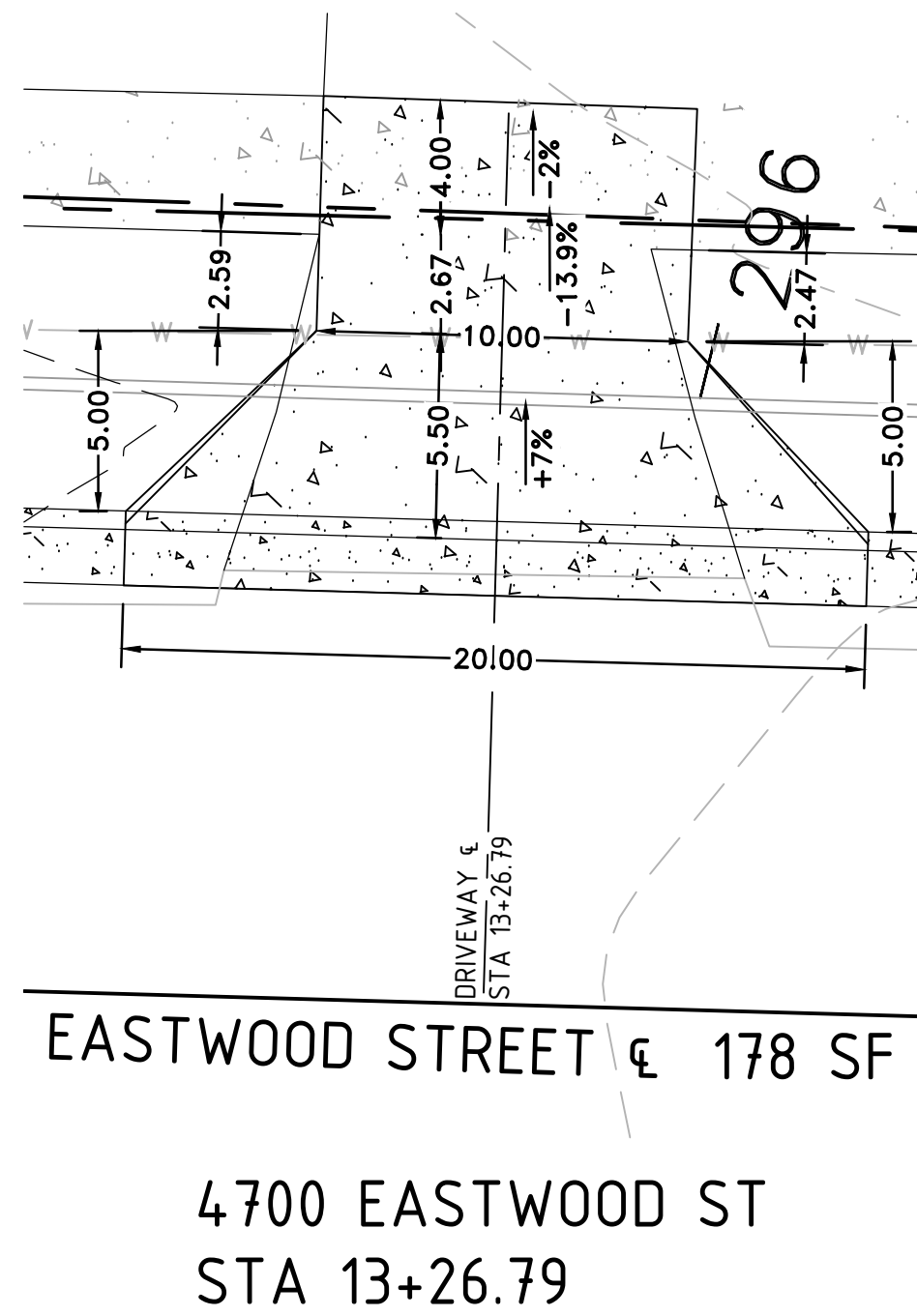
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DATE 09/17/2019
SCALE 1" =10'
PROJECT NO. 07-17-ST-293
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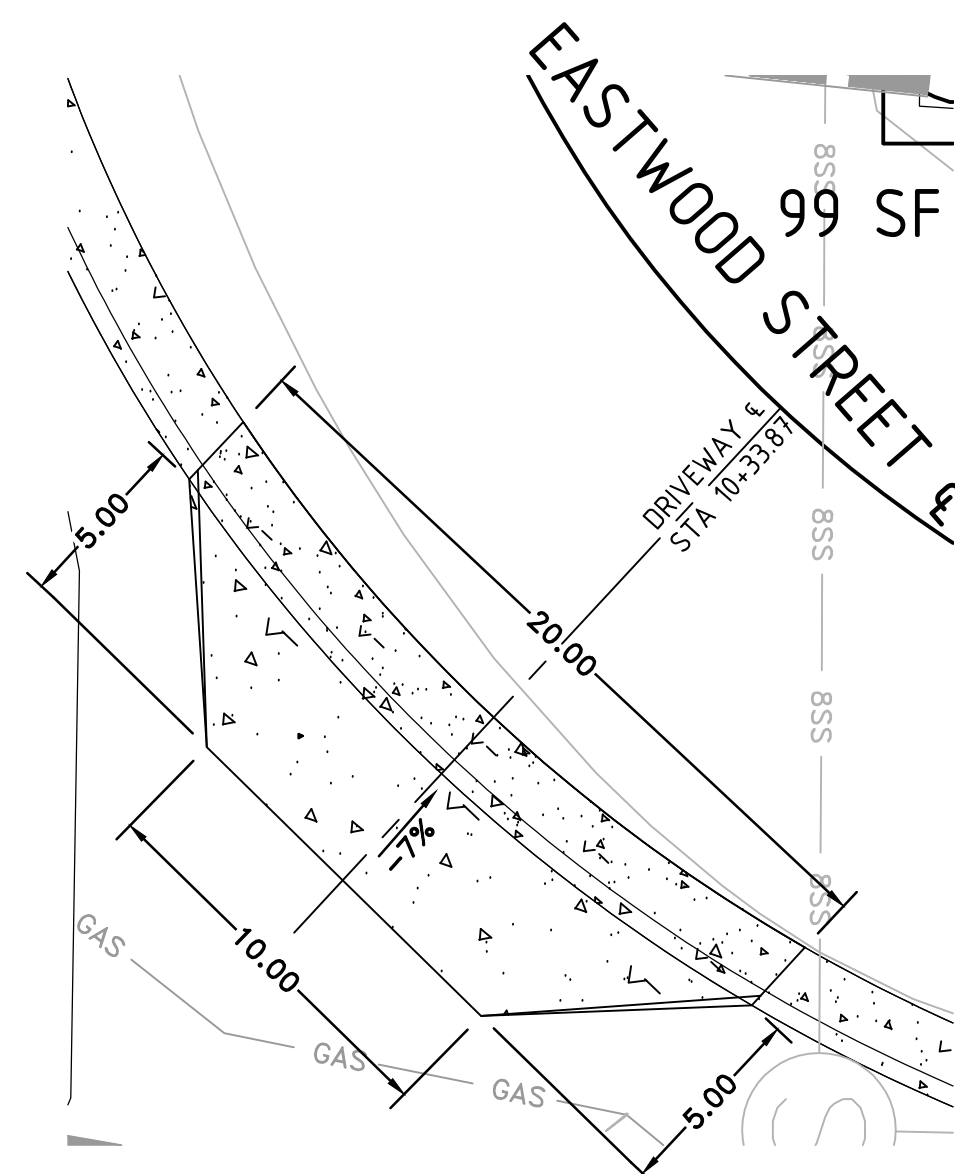
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Date

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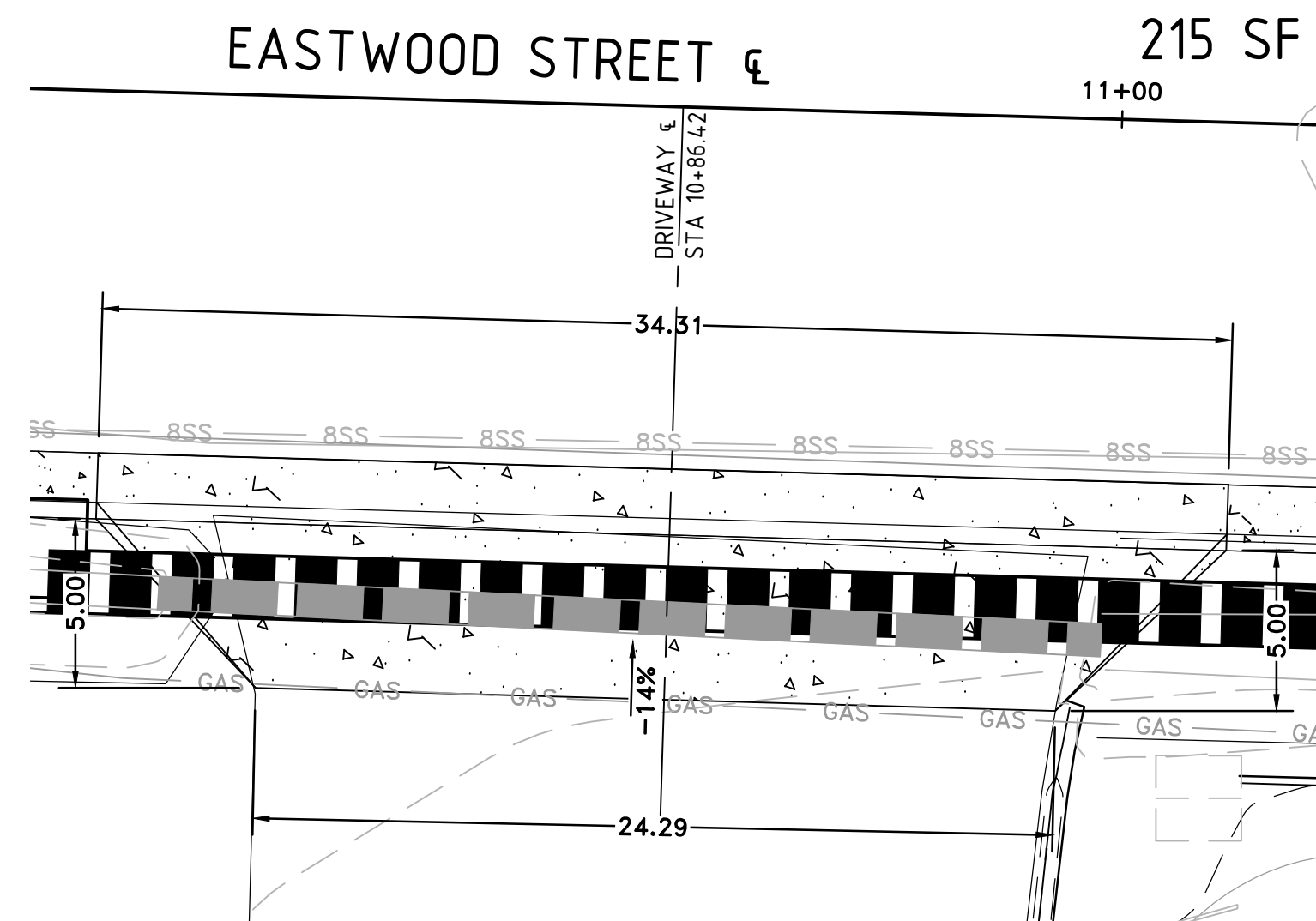
CITY OF LITTLE ROCK, ARKANSAS
EASTWOOD STREET RECONSTRUCTION
DRIVEWAY DETAILS (SHEET 1 OF 3)
60% PRELIMINARY DESIGN

DEPARTMENT OF PUBLIC WORKS
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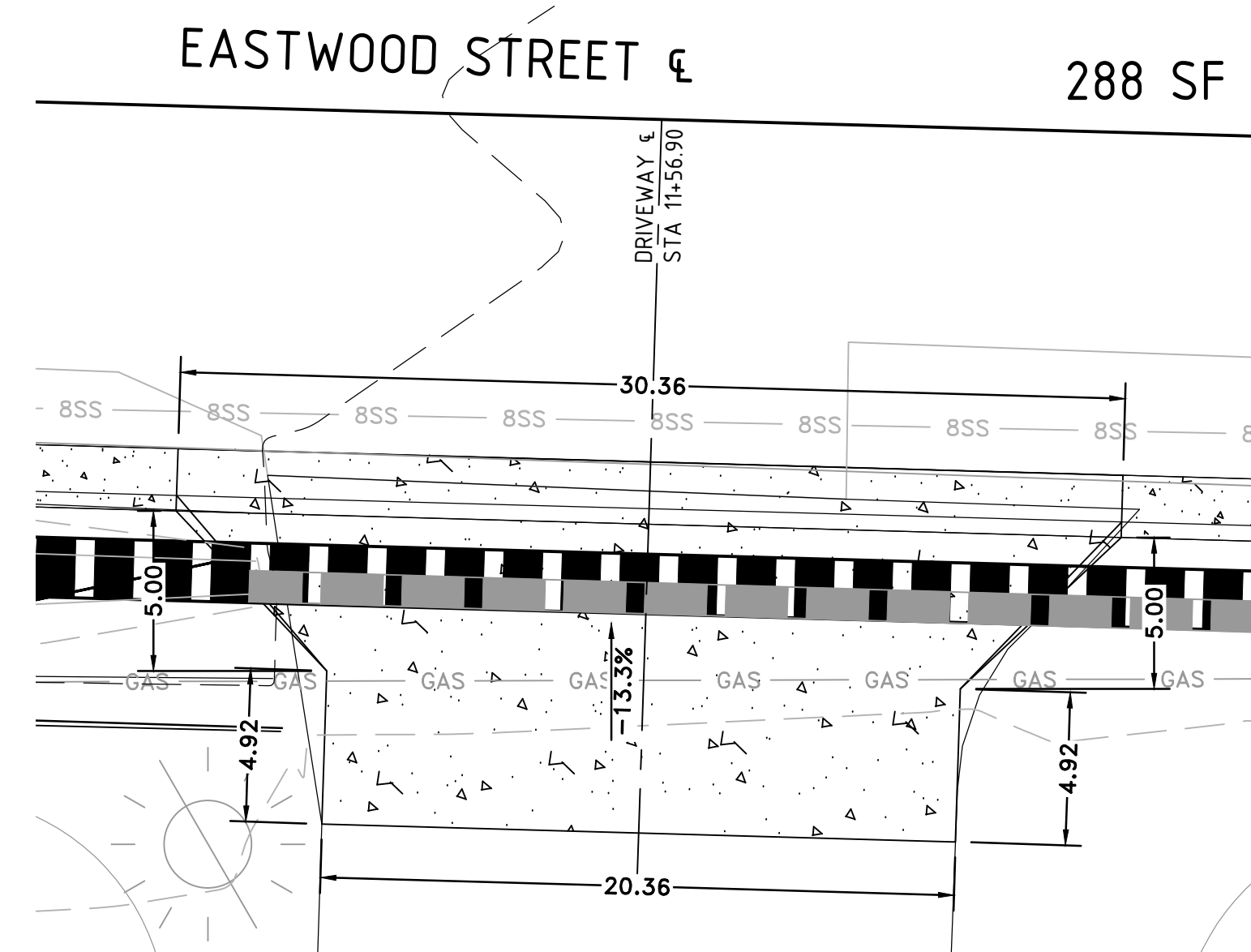
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JEB
DATE
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SCALE
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PROJECT NO.
07-17-ST-293
SHEET NO.
C9



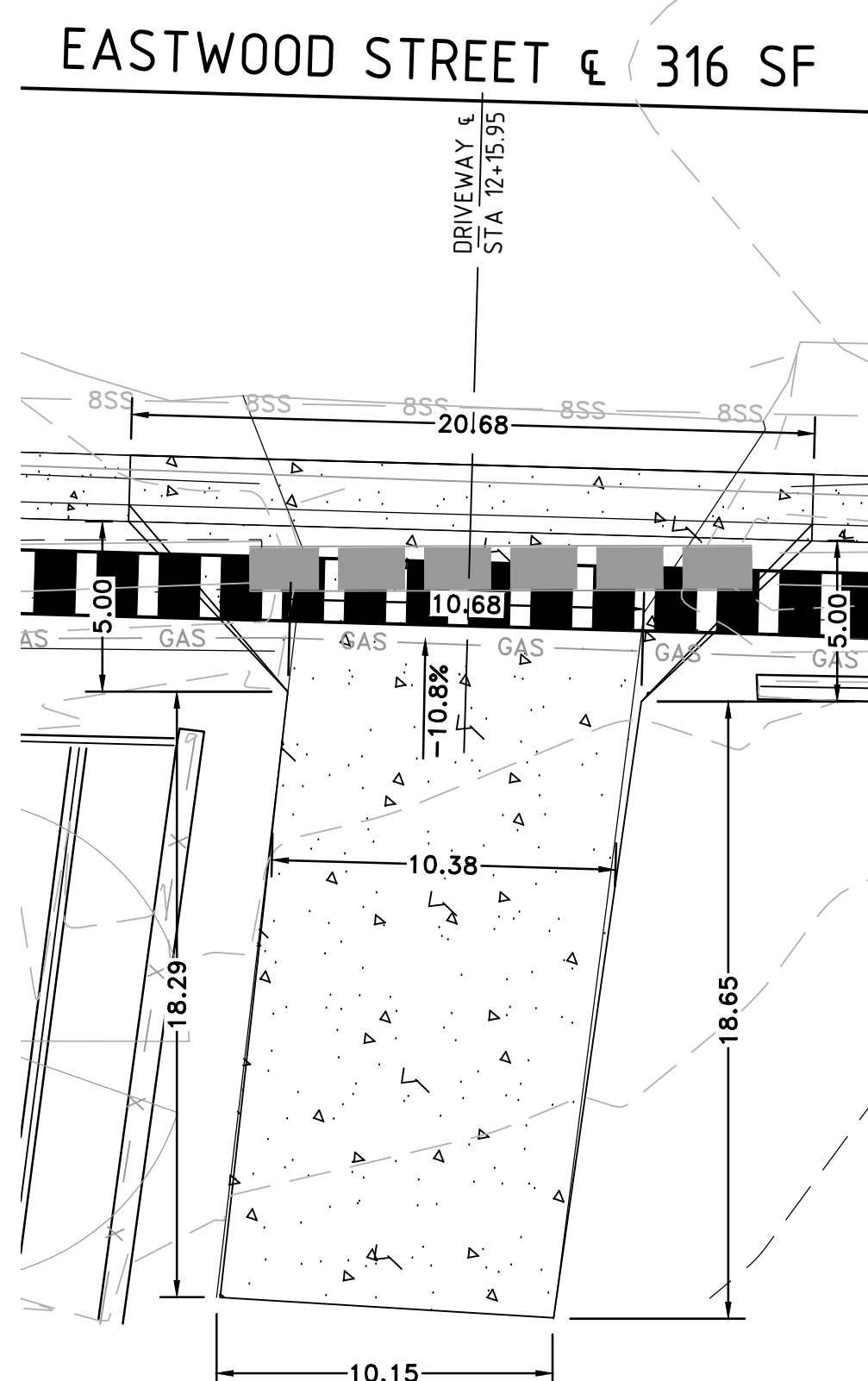
4713 EASTWOOD ST
STA 10+33.87



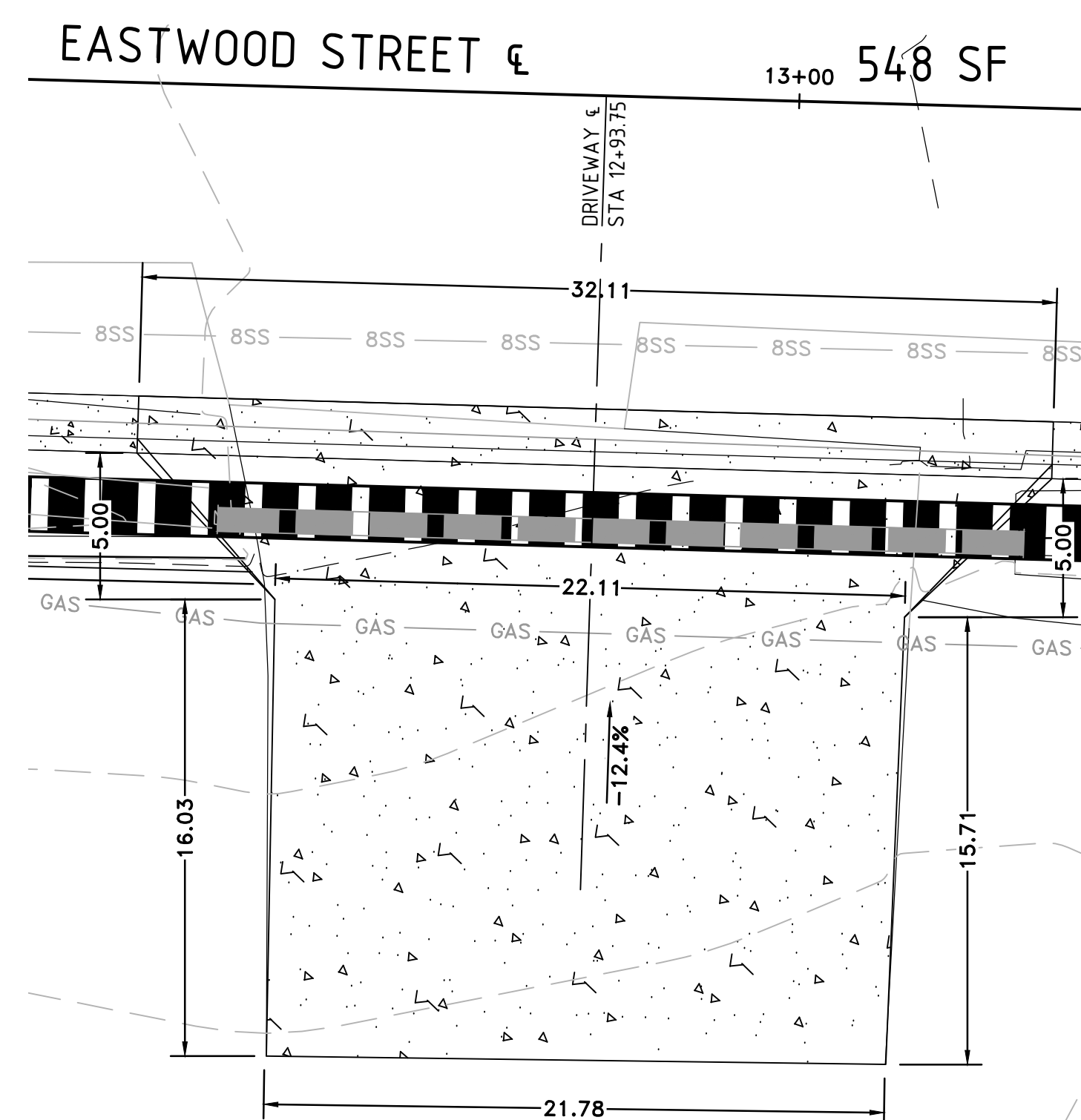
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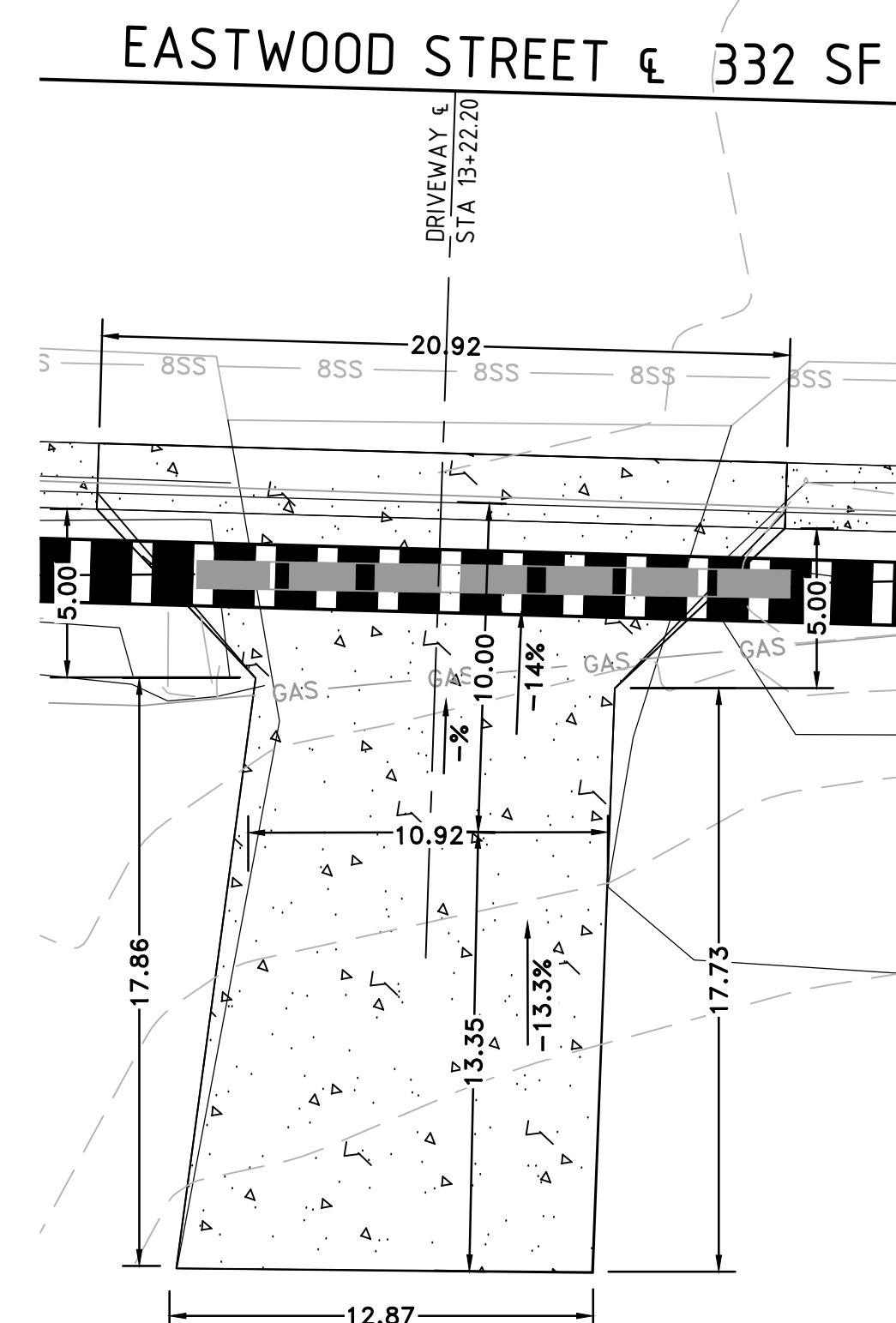
4709 EASTWOOD ST
STA 11+56.90



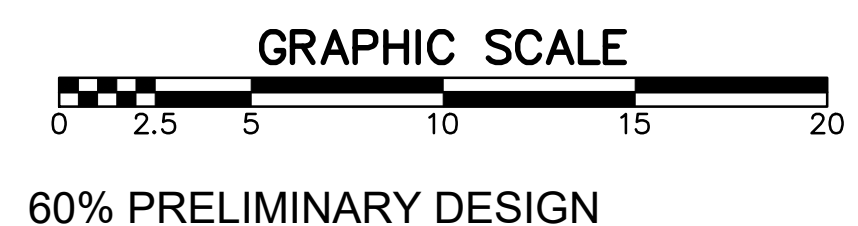
4709 EASTWOOD ST
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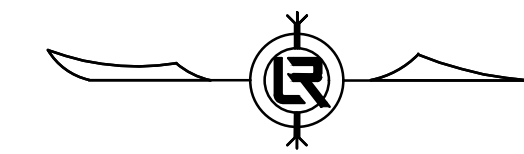
4621 EASTWOOD ST
STA 12+93.75



4617 EASTWOOD ST
STA 13+22.20



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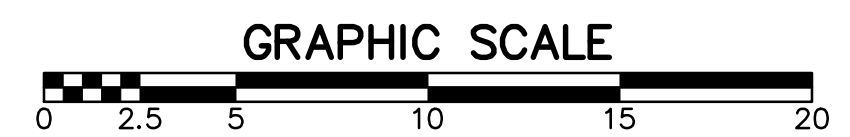
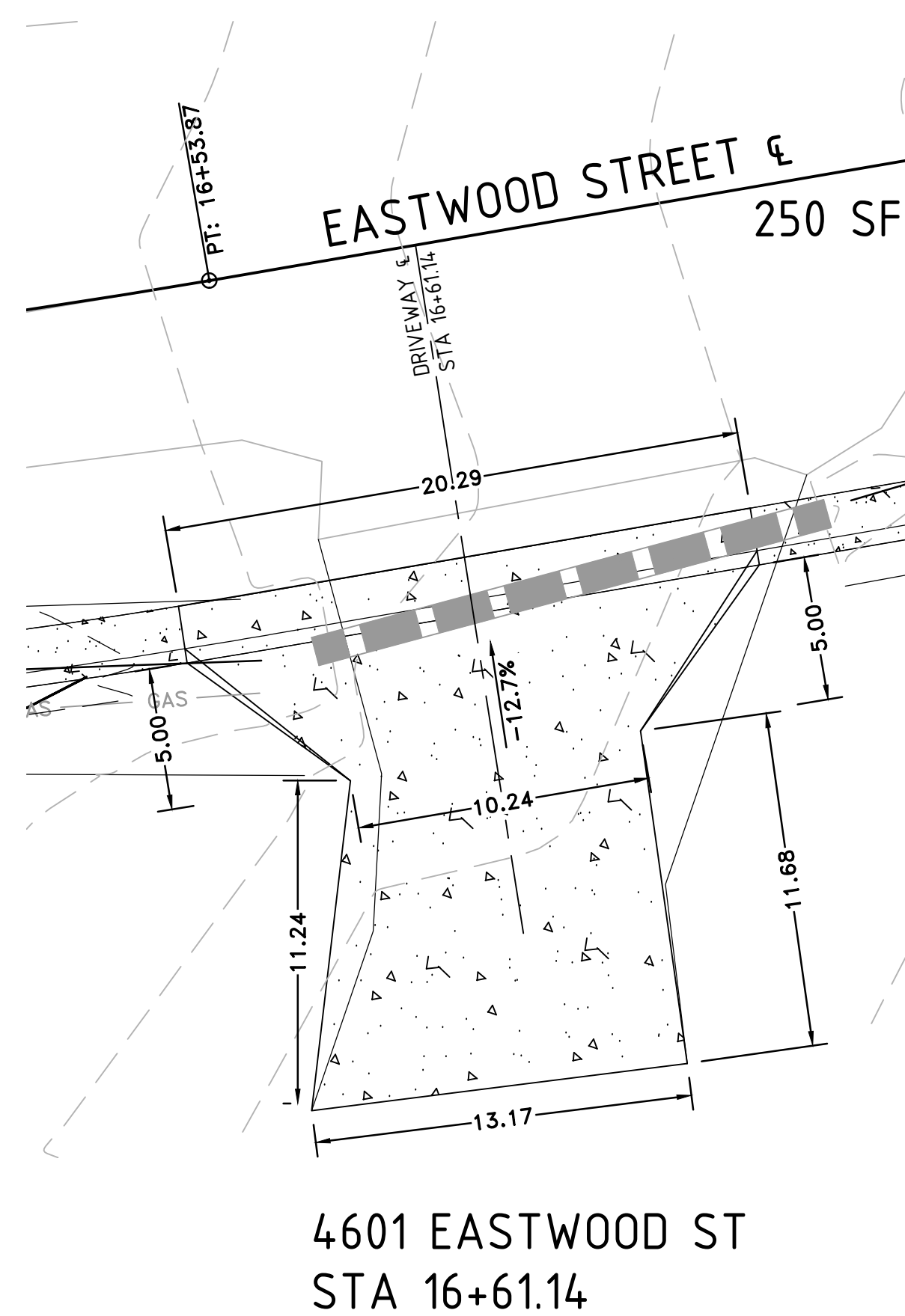
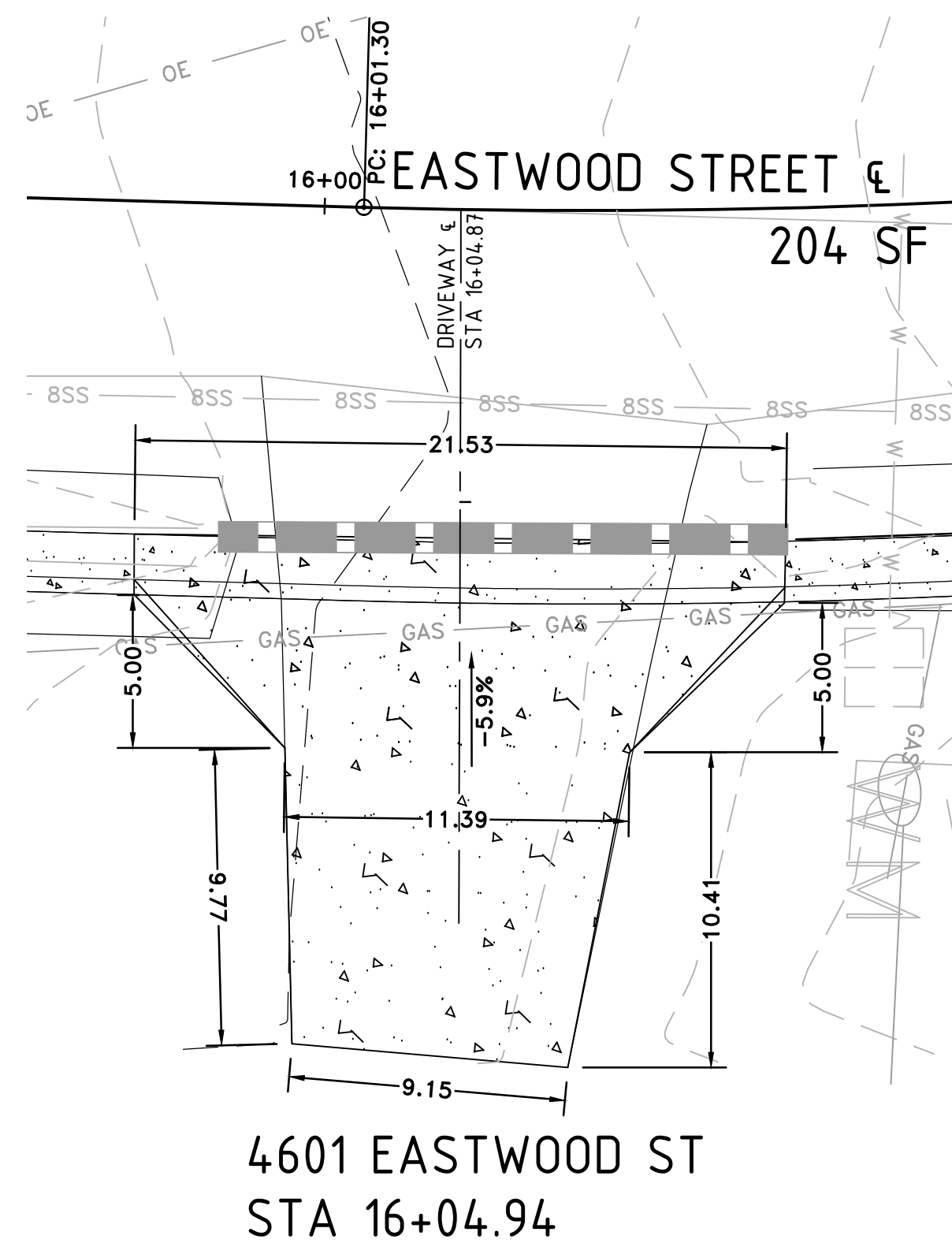
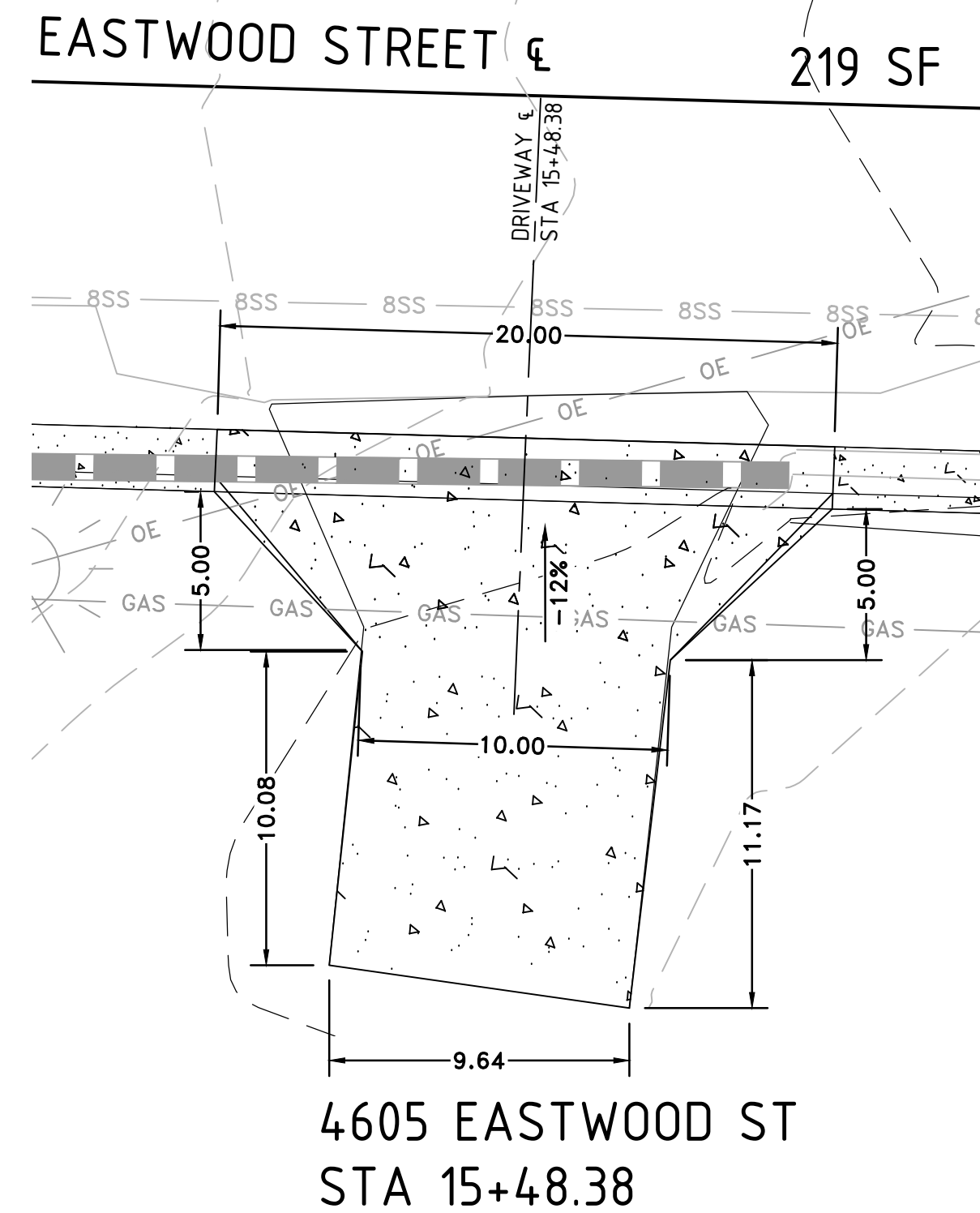
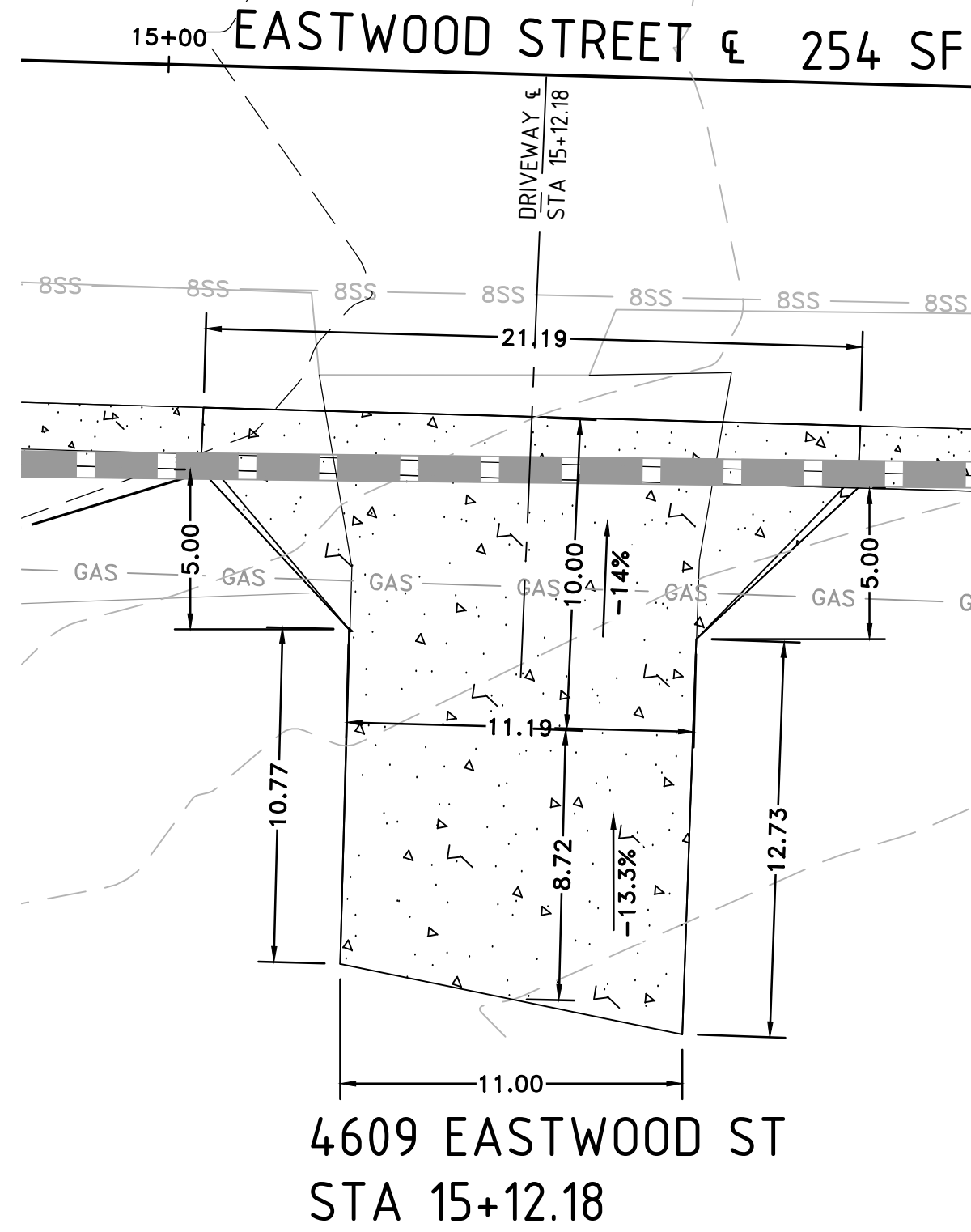
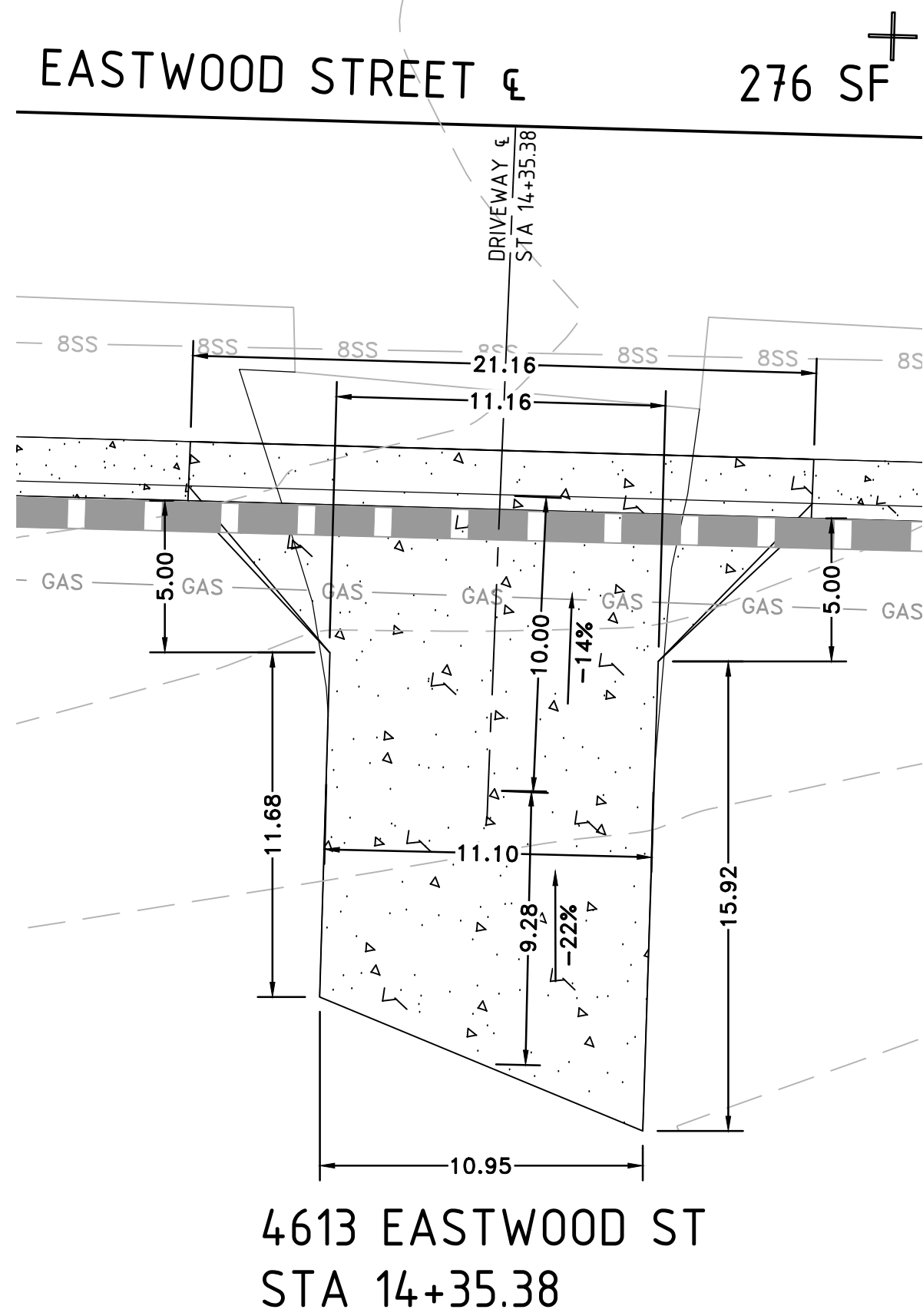
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CITY OF LITTLE ROCK, ARKANSAS
EASTWOOD STREET RECONSTRUCTION
DRIVEWAY DETAILS (SHEET 2 OF 3)
60% PRELIMINARY DESIGN

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EASTWOOD STREET RECONSTRUCTION
DRIVEWAY DETAILS (SHEET 3 OF 3)
60% PRELIMINARY DESIGN

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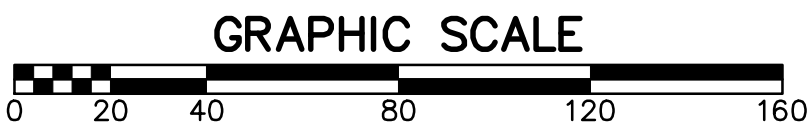
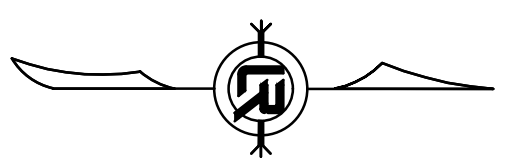
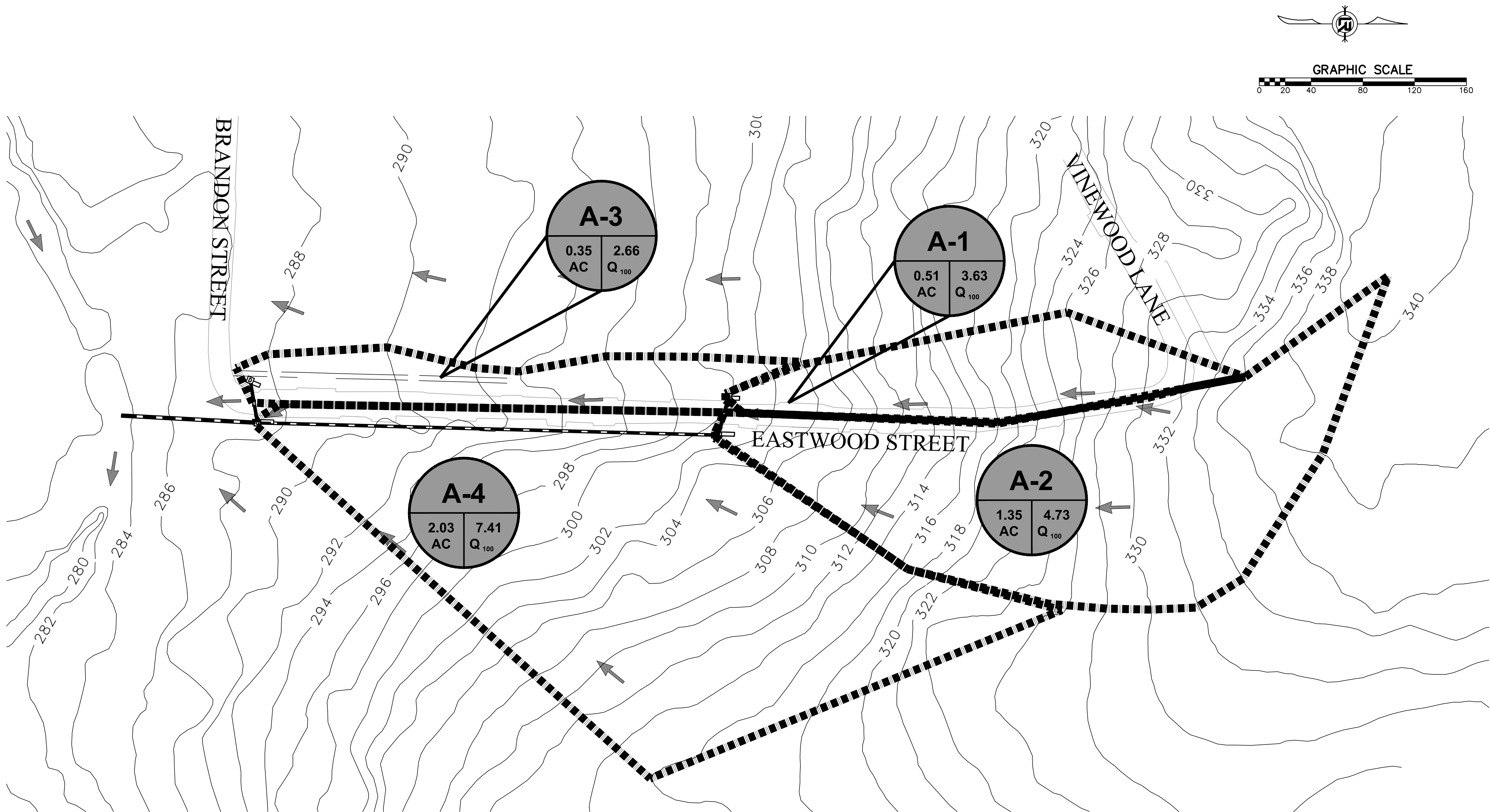


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07-17-ST-293
SHEET NO.

C11



25 YEAR, 50 YEAR, AND 100 YEAR HYDROLOGY COMPUTATIONS

DRAINAGE AREA COMPUTATIONS									
DESIGN POINT ID	RUNOFF COEF. "C"	AREA "A" (ACRES)	TIME OF CONC (min)	INTENSITY I ₂₅ (in/hr)	DISCHARGE Q ₂₅ (cfs)	INTENSITY I ₅₀ (in/hr)	DISCHARGE Q ₅₀ (cfs)	INTENSITY I ₁₀₀ (in/hr)	DISCHARGE Q ₁₀₀ (cfs)
A-1	0.95	0.51	13.3	7.00	3.15	7.50	3.39	8.50	3.63
A-2	0.50	1.35	16.0	6.50	4.05	7.00	4.39	7.50	4.73
A-3	0.95	0.35	11.9	7.50	2.16	8.00	2.43	9.00	2.66
A-4	0.50	2.03	15.3	6.50	6.60	7.00	6.60	7.50	7.41

DRAINAGE CRITERIA

BASIS: CITY OF LITTLE ROCK STORMWATER MANAGEMENT AND DRAINAGE MANUAL

RATIONAL METHOD Q=CIA
Q= STORM DRAINAGE DISCHARGE (cfs) AT DESIGN POINT
C= RUNOFF COEFFICIENT
I= DESIGN STORM INTENSITY (IN/HR)
A= DRAINAGE AREA (ACRES)

RUNOFF COEFFICIENT: 0.95 (STREETS - TABLE 2.2)
0.50 (LAWN 7% - TABLE 2.2)

STORM FREQUENCY: 100 YEARS-ONSITE DRAINAGE

MANNING'S COEFFICIENT: N=0.0175 - CONCRETE PAVEMENT
N=0.013 - CONCRETE PIPES

SOURCE FOR 2FT CONTOURS - PAGIS 2019

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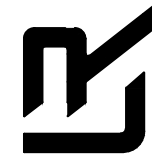
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CITY OF LITTLE ROCK, ARKANSAS
EASTWOOD STREET RECONSTRUCTION
DRAINAGE AREA MAP
60% PRELIMINARY DESIGN

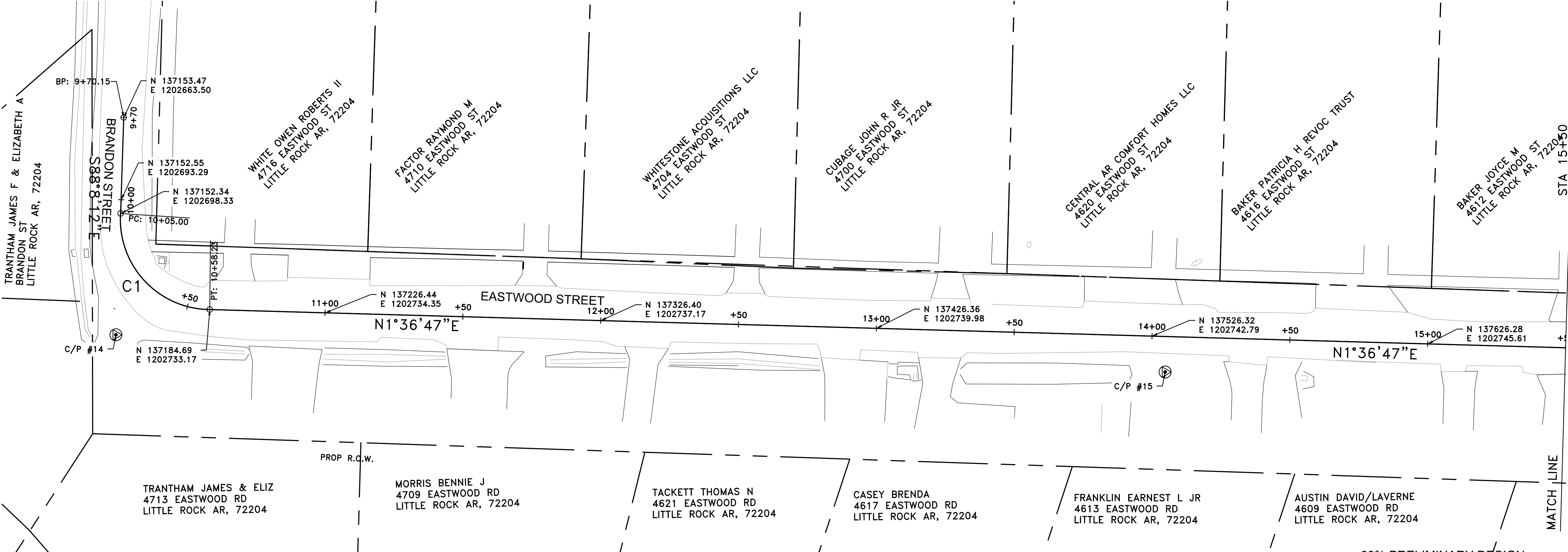
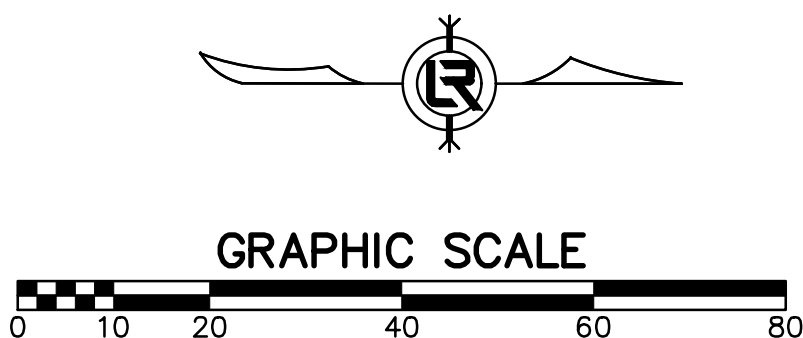
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DESIGNED BCJ
CHECKED JEB
DATE 09/17/2019
SCALE 1" = 40'
PROJECT NO. 07-17-ST-293
SHEET NO. C12

SURVEY CONTROL POINTS EASTWOOD STREET							
POINT	DESCRIPTION	NORTHING	EASTING	ELEVATION	BASELINE REFERENCE	BASELINE STATION	BASELINE OFFSET
C/P #14	60D NAIL AT INTERSECTION OF EASTWOOD STREET AND BRANDON STREET AND EAST OF EAST CURB OF EASTWOOD STREET	137150.62	1202742.33	287.96	EASTWOOD STREET	10+36.04	21.4 RT
C/P #15	60D NAIL EAST OF EAST CURB OF EASTWOOD STREET	137531.08	1202755.82	300.40	EASTWOOD STREET	14+05.12	12.9 RT

CURVE TABLE					
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH	DELTA ANGLE
C1	53.23	32.70	N47°7'18"E	47.55	93°15'36"



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CITY OF LITTLE ROCK, ARKANSAS

EASTWOOD STREET RECONSTRUCTION

PROJECT LAYOUT (SHEET 1 OF 2)
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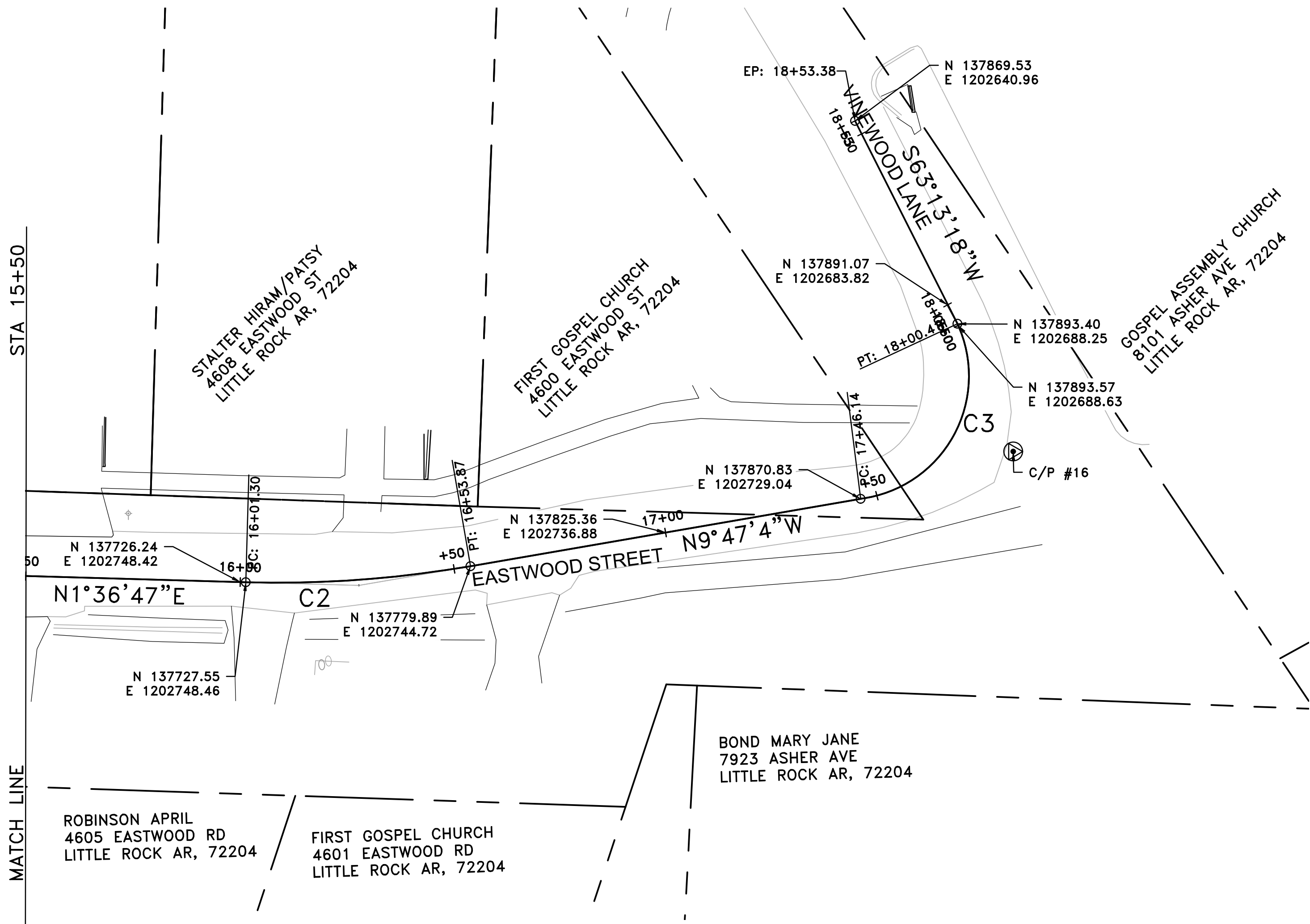
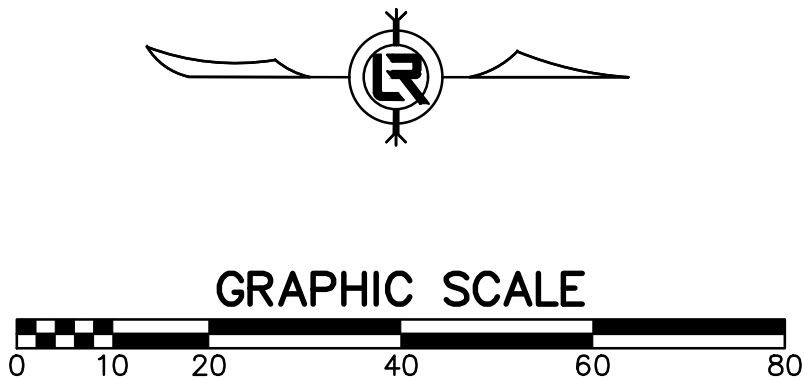
SCALE
1" = 20'

PROJECT NO.
07-17-ST-293

SHEET NO.
C13

SURVEY CONTROL POINTS EASTWOOD STREET							
POINT	DESCRIPTION	NORTHING	EASTING	ELEVATION	BASELINE REFERENCE	BASELINE STATION	BASELINE OFFSET
C/P #16	60D NAIL AT INTERSECTION OF EASTWOOD STREET AND VINEWOOD LANE AND NORTHEAST OF EAST CURB OF EASTWOOD STREET	1202718.01	137906.41	332.23	EASTWOOD STREET	17+75.67	14.1 RT

CURVE TABLE					
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH	DELTA ANGLE
C2	52.57	264.26	N4°5'8"W	52.48	11°24'50"
C3	54.27	28.86	N61°2'40"W	46.62	107°44'50"



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CITY OF LITTLE ROCK, ARKANSAS

EASTWOOD STREET RECONSTRUCTION

PROJECT LAYOUT (SHEET 2 OF 2)

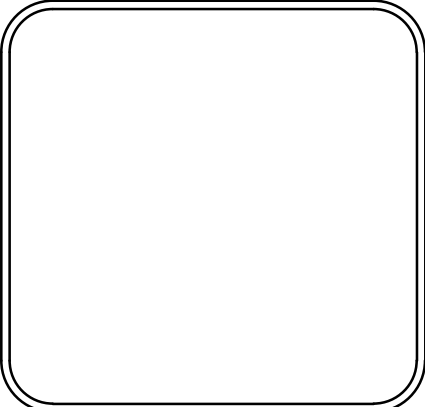
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07-17-ST-293

SHEET NO.
C14

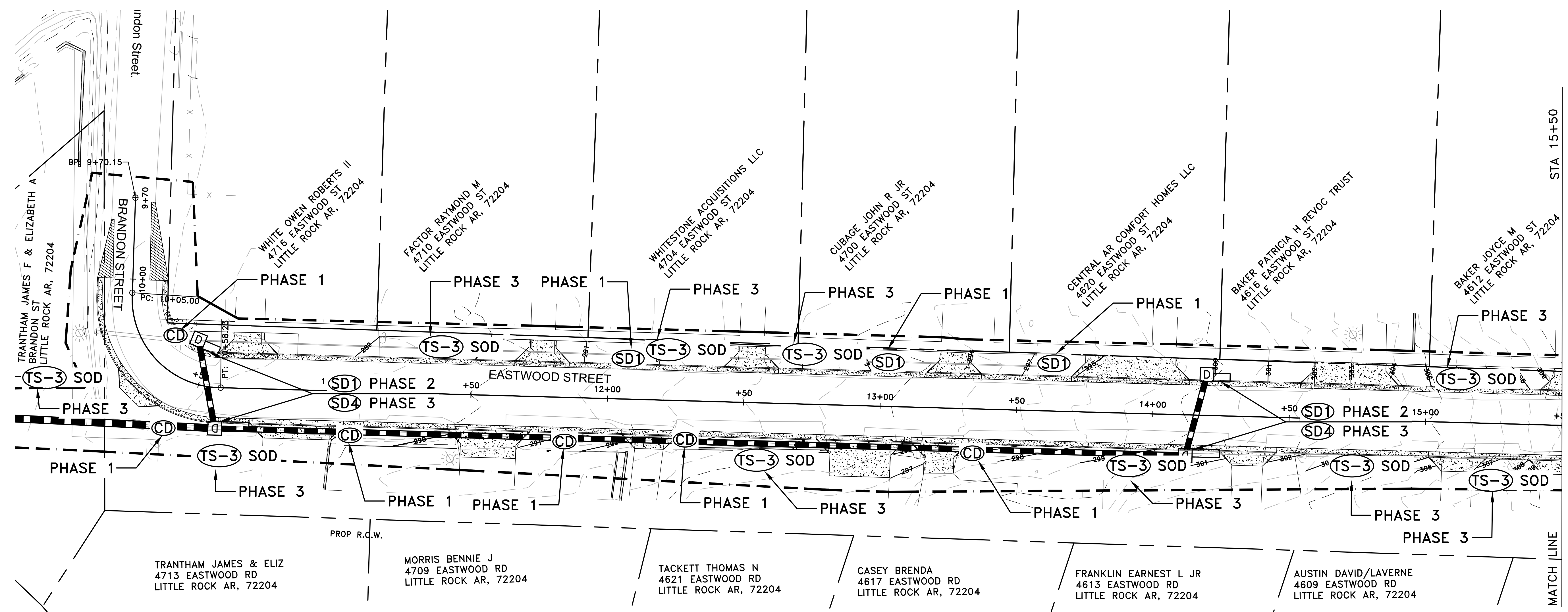
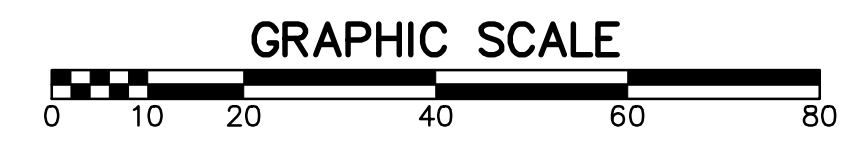
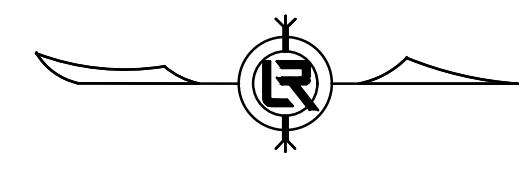
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CITY OF LITTLE ROCK, ARKANSAS
EASTWOOD STREET RECONSTRUCTION
EROSION CONTROL (SHEET 1 OF 2)
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SHEET NO.
C15

PHASING LEGEND
PHASE 1 (INITIAL STRIP AND DEMOLITION)
PHASE 2 (NEW DRAINAGE AND NEW BASE COURSE IN PLACE)
PHASE 3 (PAVED, GRASS NOT YET ESTABLISHED)



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EASTWOOD STREET RECONSTRUCTION
EROSION CONTROL (SHEET 2 OF 2)
60% PRELIMINARY DESIGN

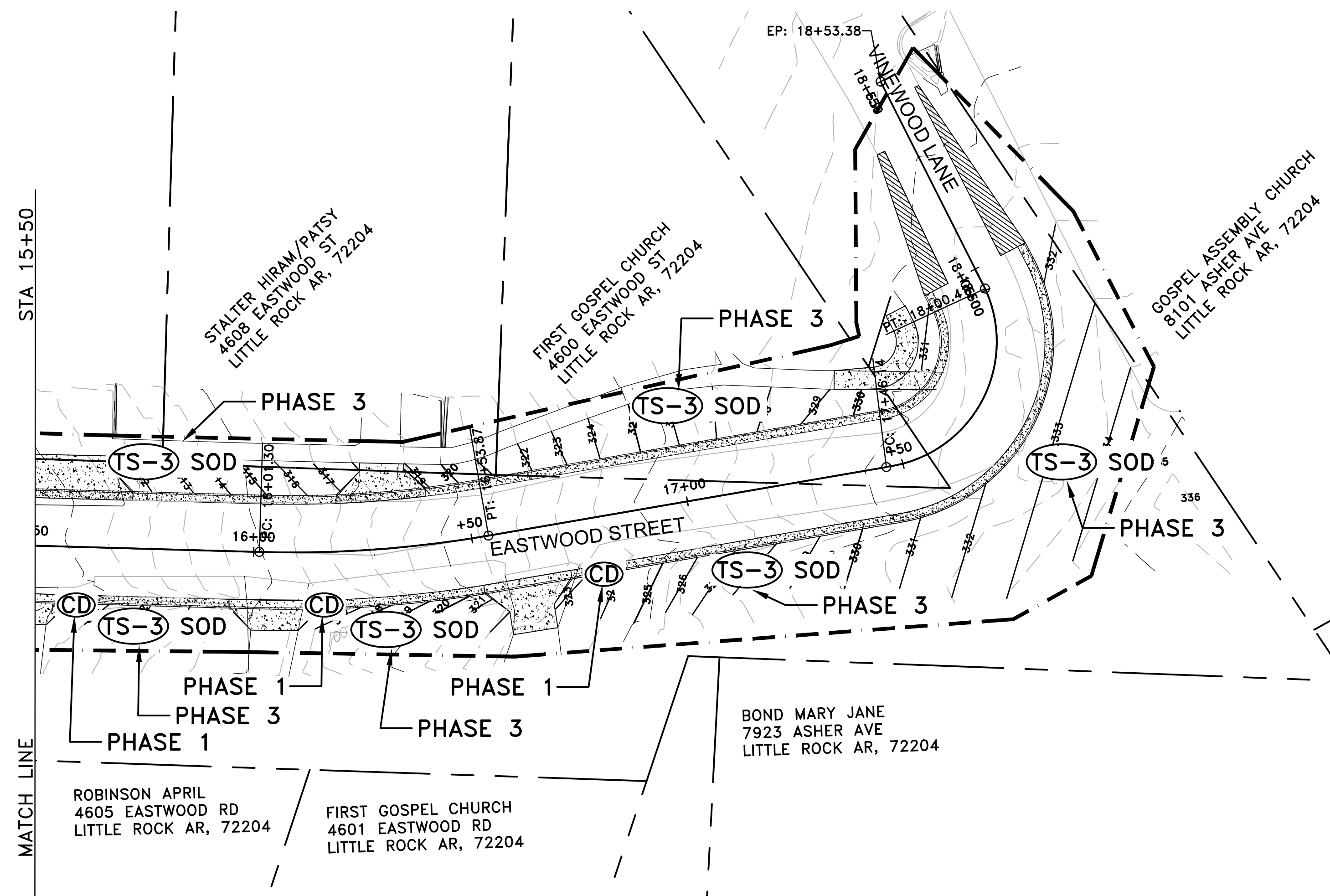
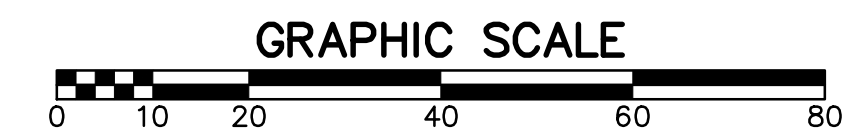
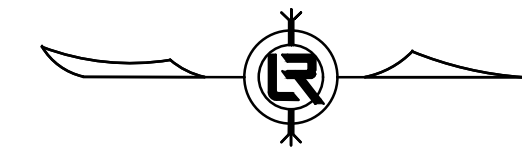
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SHEET NO. C16

PHASING LEGEND

- PHASE 1 (INITIAL STRIP AND DEMOLITION)
PHASE 2 (NEW DRAINAGE AND NEW BASE COURSE IN PLACE)
PHASE 3 (PAVED, GRASS NOT YET ESTABLISHED)



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