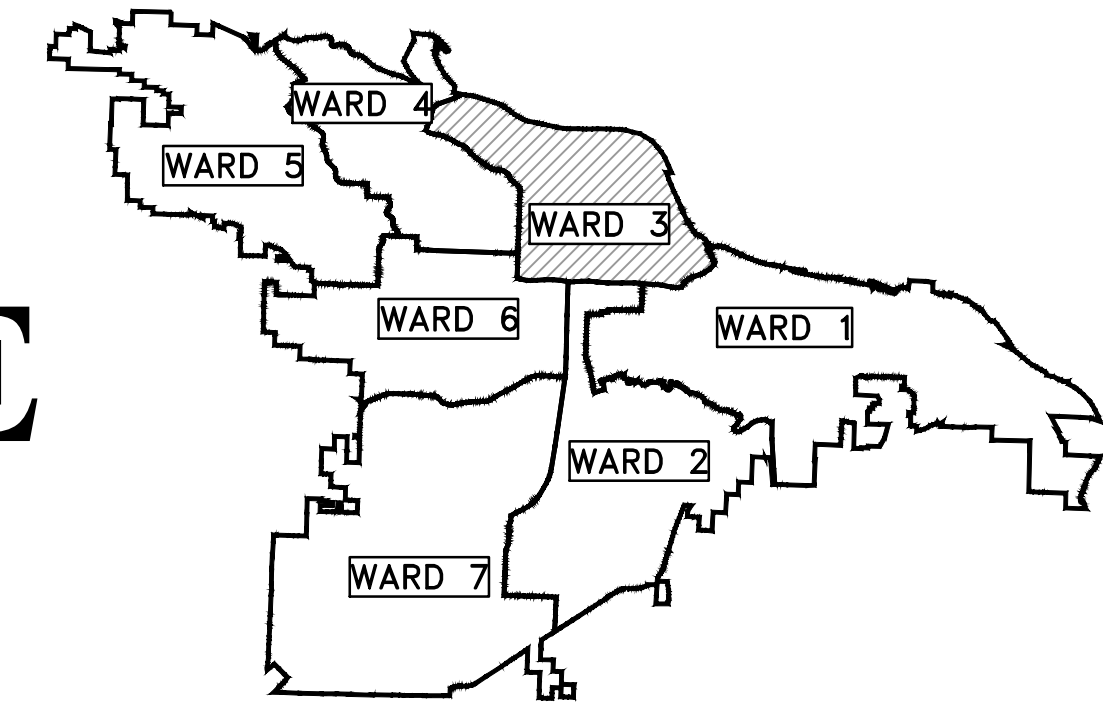


# CLR PROJECT 03-17-DR-107 WEST 4TH STREET DRAINAGE AND STREET IMPROVMENTS SOUTH VALENTINE STREET TO WEST CAPITOL AVENUE



PROJECT LOCATION – WARD 3



SHEET NO.	TITLE
C1	COVER SHEET
C2	QUANTITIES & DETAILS
C3 - C4	TYPICAL SECTIONS
C5-C14	SPECIAL DETAILS
C15	FIELD TIES/LAYOUT
C16-C18	BOX CULVERT AND DRAINAGE CHANNEL
C19	WEST 4TH STREET 1
C20	WEST 4TH STREET 2
C21	SOUTH VALENTINE STREET
C22	VALMAR STREET
C23	EROSION CONTROL
C24-C25	MAINTENANCE OF TRAFFIC
C26-C27	DRIVEWAY DETAILS
C28-C34	CROSS SECTIONS

90% SUBMITTAL



Know what's below.  
Call before you dig.



4701 Northshore Drive  
North Little Rock, AR 72118  
501-376-3633

REVISIONS DATE


CITY OF LITTLE ROCK, ARKANSAS  
WEST 4TH STREET DRAINAGE  
AND STREET IMPROVMENTS

COVER SHEET

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



2019-2021  
BOND PROGRAM

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

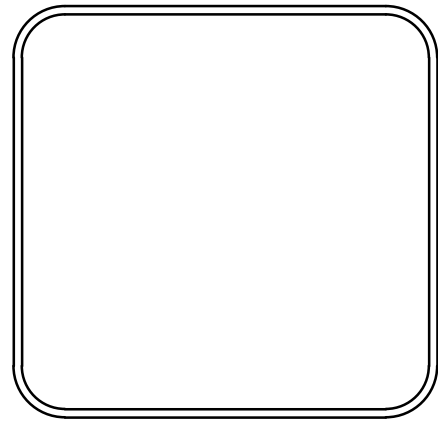
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PROJECT NO.	03-17-DR-107
SHEET NO.	C1

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**CITY OF LITTLE ROCK, ARKANSAS  
WEST 4TH STREET DRAINAGE  
AND STREET IMPROVEMENTS**

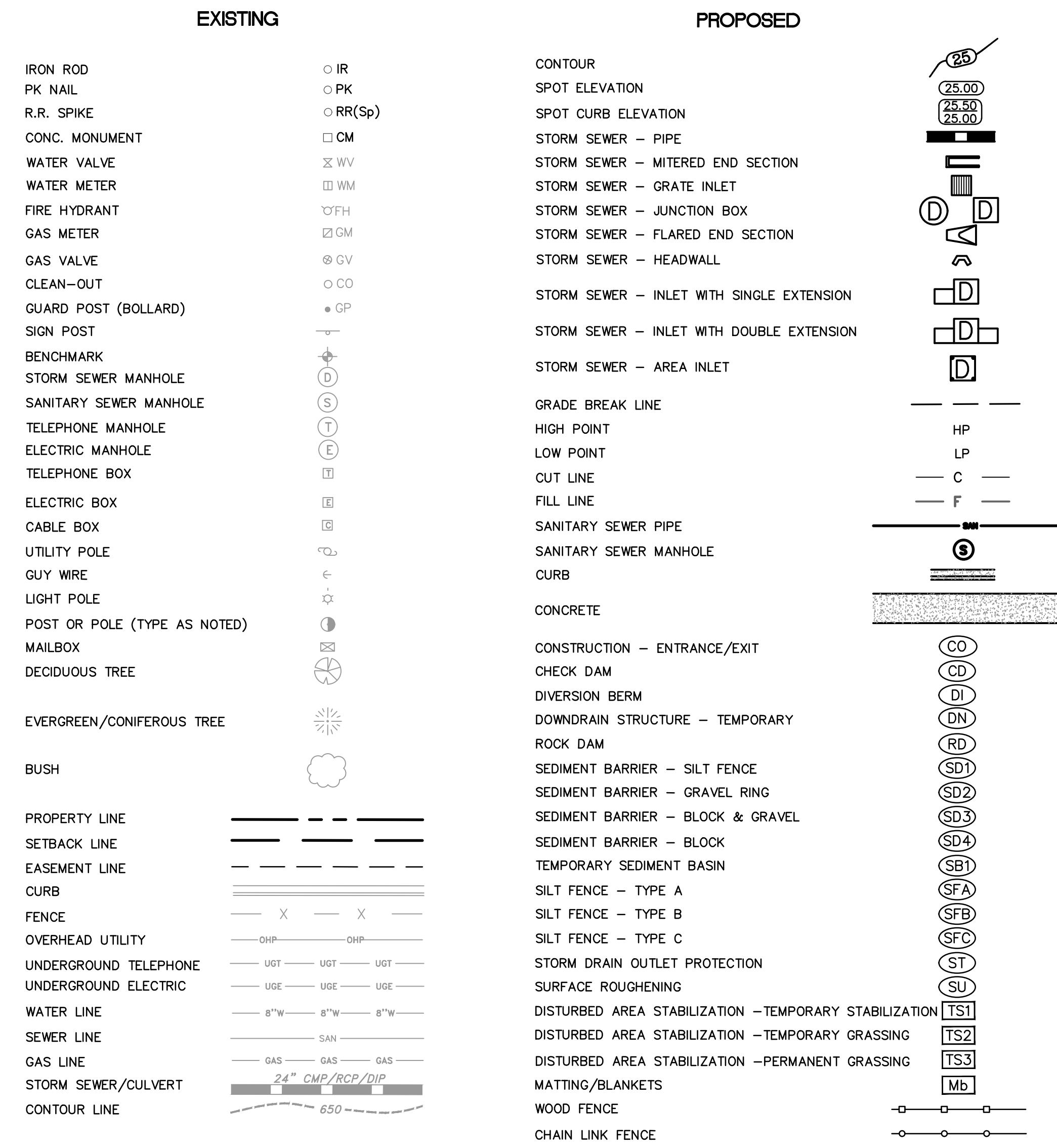
**QUANTITIES & DETAILS**

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



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N.T.S  
**PROJECT NO.**  
03-17-DR-107  
**SHEET NO.**  
C2

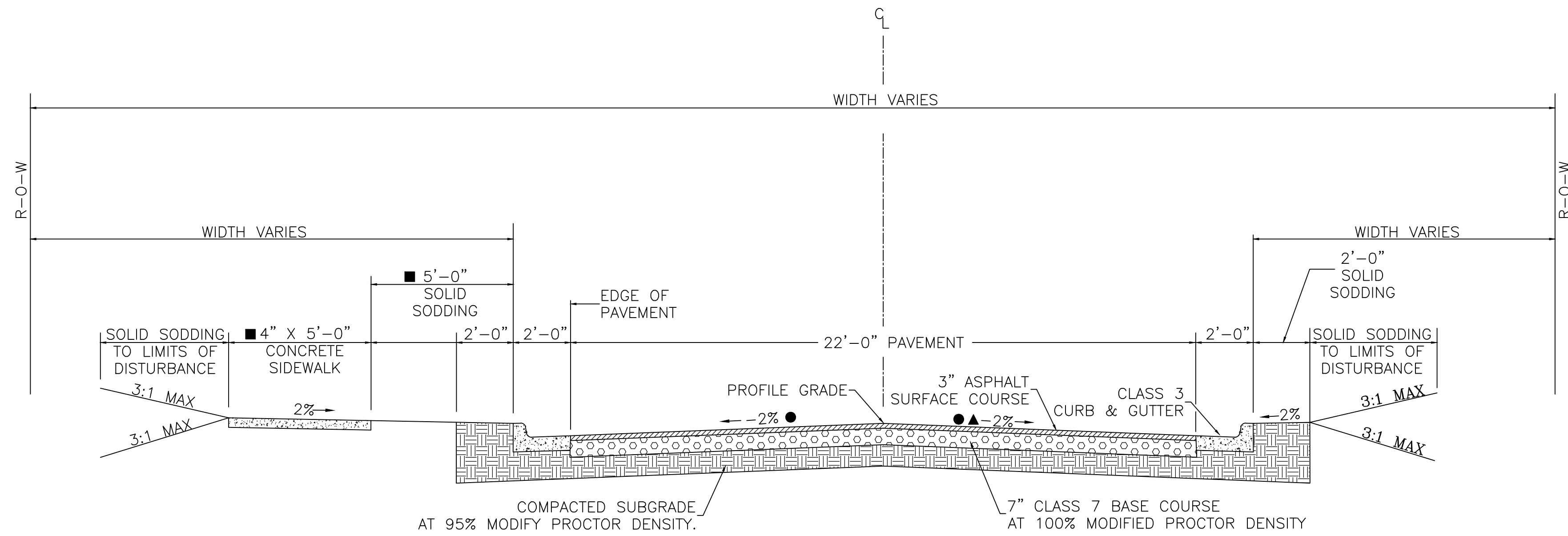
<b>CLR PROJECT# 03-17-DR-107</b>			
WEST 4TH STREET DRAINAGE AND STREET IMPROVEMENTS			
11-Oct-24			
ITEM#	ITEM DESCRIPTION	UNIT	QUANTITY
2.01	SITE PREPARATION	LS	1
3.01	UNCLASSIFIED EXCAVATION	CY	8134
3.06	BORROW MATERIAL	CY	4694
3.4	TOPSOIL	CY	350
4.01	AGGREGATE BASE COURSE	TON	1984
6.01	ACHM SURFACE COURSE	TON	422
7.06	CONCRETE DRIVEWAY (6" THICK), STANDARD FINISH	SF	2162
8.03	CONCRETE CURB AND GUTTER (CLASS 3)	LF	1251
9.04	CONCRETE SIDEWALK (4" THICK)	SF	3696
10.04	CURB INLET - 4' BOX	EA	11
10.04A	CURB INLET - 4' X 6' BOX	EA	1
10.05	CURB INLET - 5' BOX	EA	1
10.06R	CURB INLET - REVERSE THROAT	EA	3
10.1	WING 6' EXTENSION	EA	10
10.14	WING 10' EXTENSION	EA	6
SP1-5.1	REINFORCED CONCRETE PRECAST BOX CULVERT (DBL. 12' X 4')	LF	400
11.1	REINFORCED CONCRETE	CY	265
11.11	CONCRETE PIPE COLLAR	EA	1
11.6	CONCRETE DITCH PAVING	SY	240
13.18S	STORM DRAIN PIPE, 18" SIDE DRAIN	LF	263
13.18X	STORM DRAIN PIPE, 18" CROSS DRAIN	LF	61
13.18X4	STORM DRAIN PIPE, 18" CROSS DRAIN (CLASS IV)	LF	51
13.24S	STORM DRAIN PIPE, 24" SIDE DRAIN	LF	58
13.24X4	STORM DRAIN PIPE, 24" CROSS DRAIN (CLASS IV)	LF	31
13.36S	STORM DRAIN PIPE, 36" SIDE DRAIN	LF	12
13.36X4	STORM DRAIN PIPE, 36" CROSS DRAIN (CLASS IV)	LF	29
13.73X	STORM DRAIN PIPE, ARCH 73"X45" CROSS DRAIN (CLASS IV)	LF	254
SP2-5.1	GRADED STREET INLET	EA	1
206.01	FLOWABLE FILL	CY	168
14.01	SOLID SODDING, BERMUDA	SY	3139
16.01	MAINTENANCE OF TRAFFIC	LS	1
17.01	PAVEMENT REPAIRS	SY	15
18.4	HANDRAIL	LF	100
18.45	RIPRAP (NON - GROUTED)	CY	40
18.5	ACCESS RAMP	SF	308
19.01	FINAL CLEANUP	LS	1
23.02	C-BALLAST	TON	139
24.02	CHECK DAM (CD)	CY	20
24.06	SEDIMENT BARRIER, SILT FENCE (SD1)	EA	18
24.09	SEDIMENT BARRIER, BLOCK (SD4)	EA	18
24.12	SILT FENCE - TYPE B (SFB)	LF	1100
25.04	FENCE CHAIN LINK (4')	LF	448
25.16	FENCE WOOD (6')	LF	135
25.54	FENCE GATE, WOOD DOUBLE SWING (4')	LF	11
25.55	FENCE GATE, WOOD DOUBLE SWING (6')	LF	11
25.74	TEMPORARY FENCING	LF	202
606.36C	FLARED END SECTION 36" RCP	EA	1



**GENERAL NOTES:**

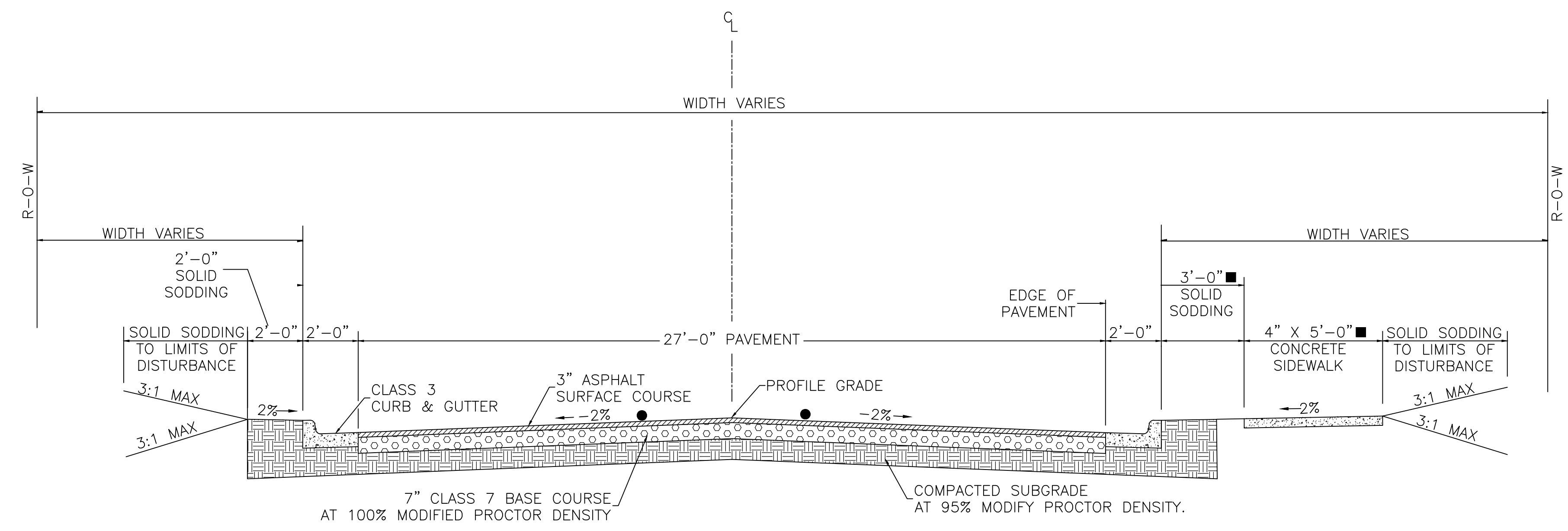
- ALL EXISTING STRUCTURES OR UTILITIES WITHIN THE LIMITS OF EXISTING OR PROPOSED EASEMENTS SHALL REMAIN UNDISTURBED UNLESS OTHERWISE NOTED ON THE PLANS.
- WHERE EXCAVATION ENDANGERS THE STABILITY OF A BUILDING, WALL, STREET, UTILITIES OR OTHER INSTALLATION, THE CONTRACTOR SHALL PROVIDE SUPPORT SYSTEMS SUCH AS SHORING, BRACING, OR UNDERPINNING TO ENSURE STABILITY OF SUCH STRUCTURE OR UTILITY. PRIOR TO CONSTRUCTION OF THE SHORING SYSTEM, THE CONTRACTOR SHALL SUBMIT THE DESIGN AND DETAILS OF THE THE SYSTEM TO THE ENGINEER FOR INFORMATIONAL AND RECORD PURPOSES. THE DESIGN AND DETAILS SHALL BE PREPARED AND/OR APPROVED BY A PROFESSIONAL ENGINEER REGISTERED IN ARKANSAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY OF THE TEMPORARY SHORING DURING THE ENTIRE PERIOD OF CONSTRUCTION.
- WHEN THE CONTRACTOR'S OPERATIONS CREATE THE NEED FOR TEMPORARY FENCING, PROVIDE AND INSTALL TEMPORARY FENCING AND APPURTENANCES UNTIL SUCH TIME THAT THE PERMANENT FENCE IS IN PLACE (OR UNTIL THE TEMPORARY FENCE IS NO LONGER REQUIRED). AT THE DISCRETION OF THE ENGINEER, TEMPORARY FENCING MAY BE ERECTED WITHOUT CONCRETE FOOTINGS, PULL POSTS, CORNER POSTS, ETC. REMOVE THE TEMPORARY FENCING AND APPURTENANCES FROM THE PROJECT SITE, WHEN DIRECTED BY THE ENGINEER. TEMPORARY FENCING MATERIALS WILL REMAIN THE PROPERTY OF THE CONTRACTOR.

REVISIONS	DATE



TYPICAL SECTION  
WEST 4TH STREET  
STA. 10+49.00 TO 14+65.76  
STA. 14+93.39 TO STA. 15+55.44

- ▲ TRANSITION CROSS SLOPE FROM -2% TO +2% BETWEEN STA. 10+85 AND STA. 11+25  
TRANSITION CROSS SLOPE FROM +2% TO -2% BETWEEN STA. 11+75 AND STA. 12+15
- SEE PLAN AND PROFILE SHEETS FOR VARIATIONS
- TRANSITION CROSS SLOPE OVER A DISTANCE OF 35'-0" TO MATCH PROPOSED SLOPE OF VALMAR STREET

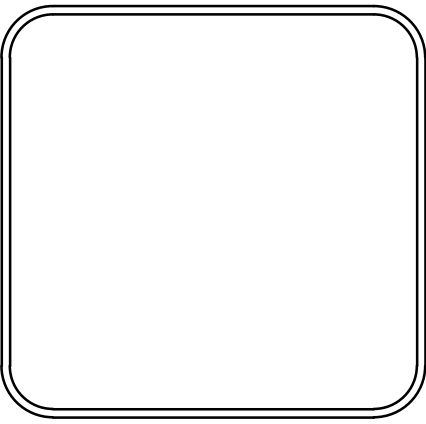


TYPICAL SECTION  
VALENTINE STREET  
STA. 50+91.00 TO STA. 51+83.36  
STA. 52+05.96 TO STA. 52+52.50

- SEE PLAN AND PROFILE SHEETS FOR VARIATIONS
- TRANSITION CROSS SLOPE OVER A DISTANCE OF 35'-0" TO MATCH PROPOSED SLOPE OF 4TH STREET

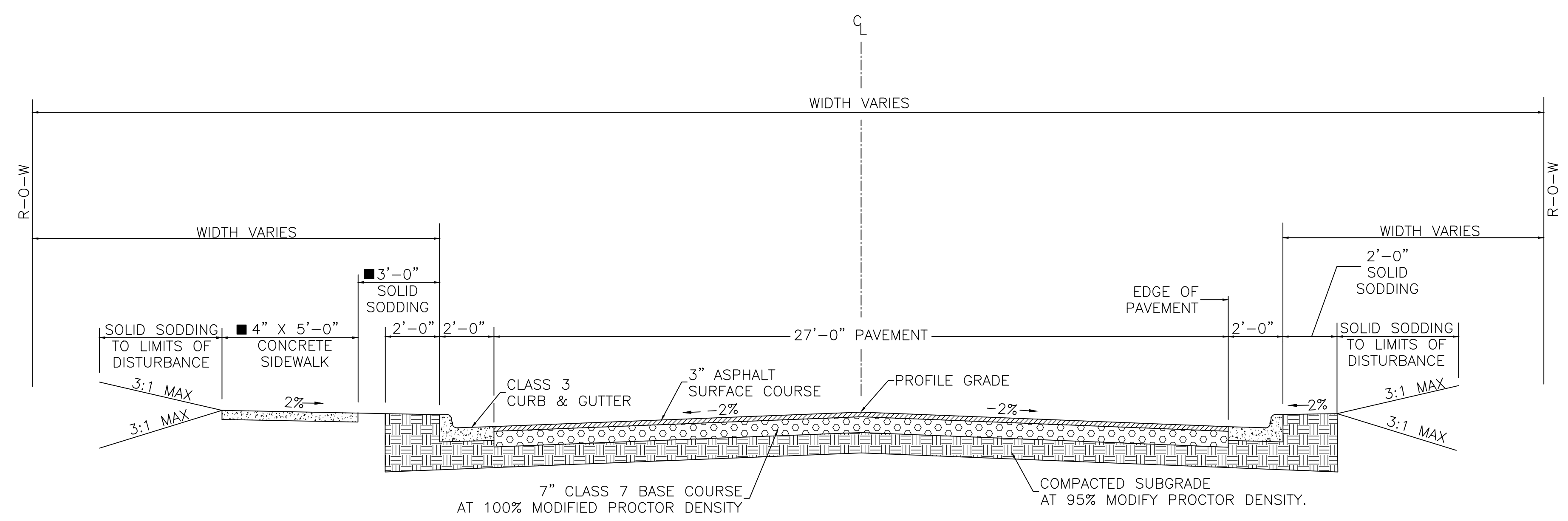
CITY OF LITTLE ROCK, ARKANSAS  
WEST 4TH STREET DRAINAGE  
AND STREET IMPROVEMENTS  
TYPICAL SECTIONS

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



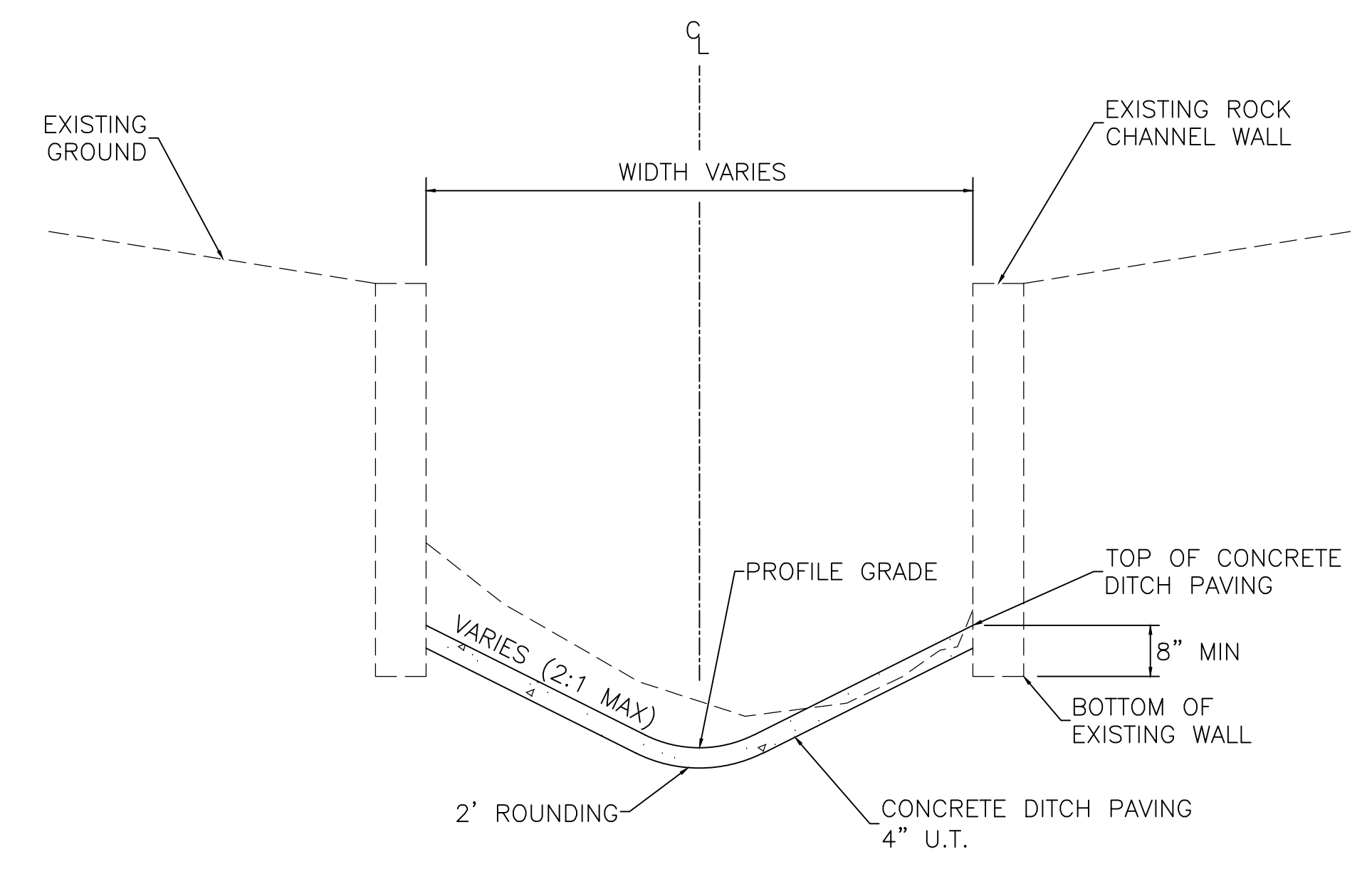
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PROJECT NO. 03-17-DR-107
SHEET NO. C3

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TYPICAL SECTION  
VALMAR STREET  
STA. 100+50.00 TO STA. 103+50.00

■ SEE PLAN AND PROFILE SHEETS FOR VARIATIONS



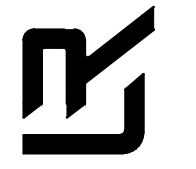
TYPICAL SECTION  
CONCRETE DITCH PAVING  
STA. 206+56.24 TO STA. 208+36.90

NOTE:  
1" WIDE TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE DITCH PAVING AT 45' INTERVALS. THE SPACE SHALL BE FILLED WITH APPROVED JOINT FILLER COMPLYING WITH AASHTO M213.

CITY OF LITTLE ROCK, ARKANSAS  
WEST 4TH STREET DRAINAGE  
AND STREET IMPROVEMENTS

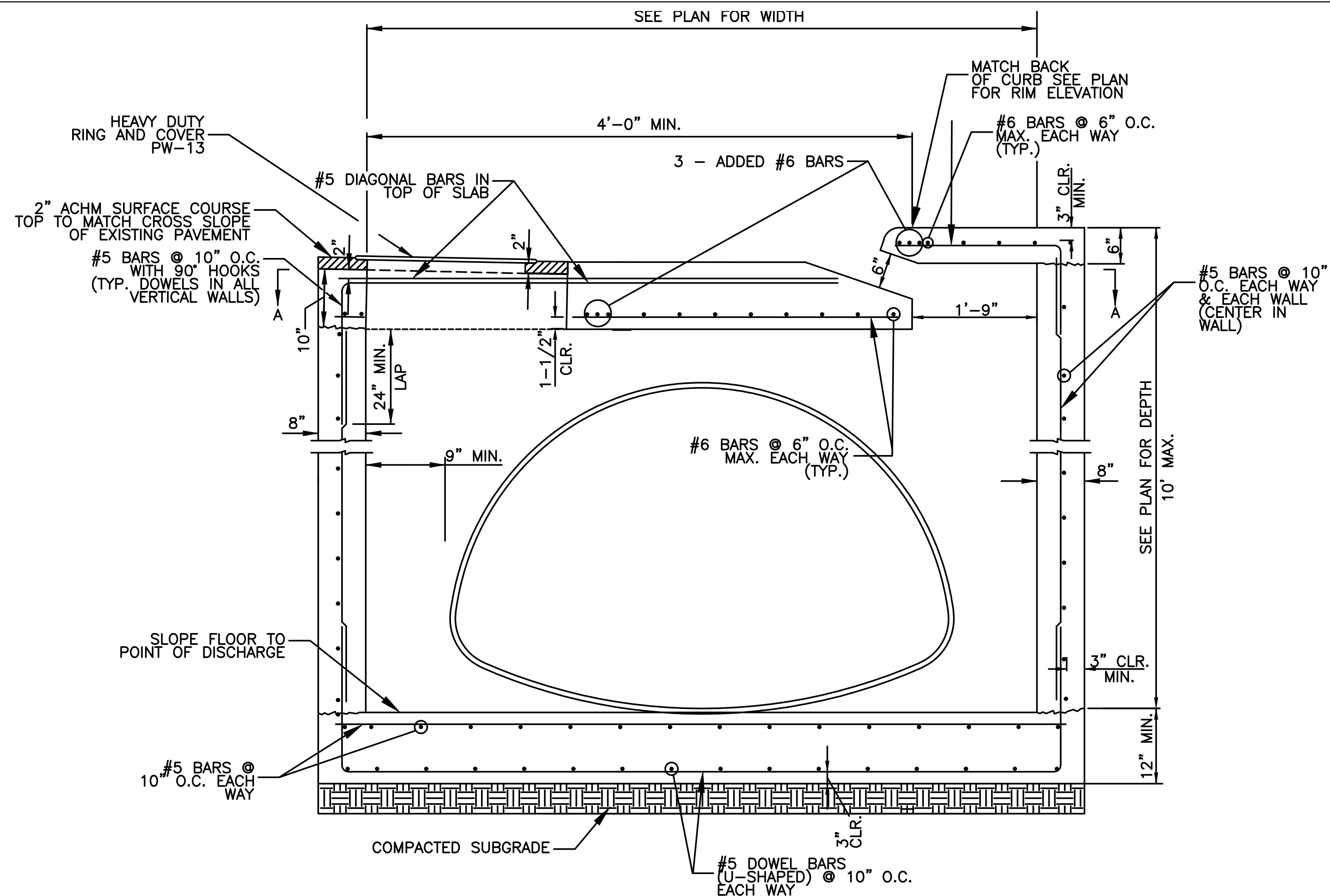
TYPICAL SECTIONS

DEPARTMENT OF PUBLIC WORKS  
CIVIL ENGINEERING  
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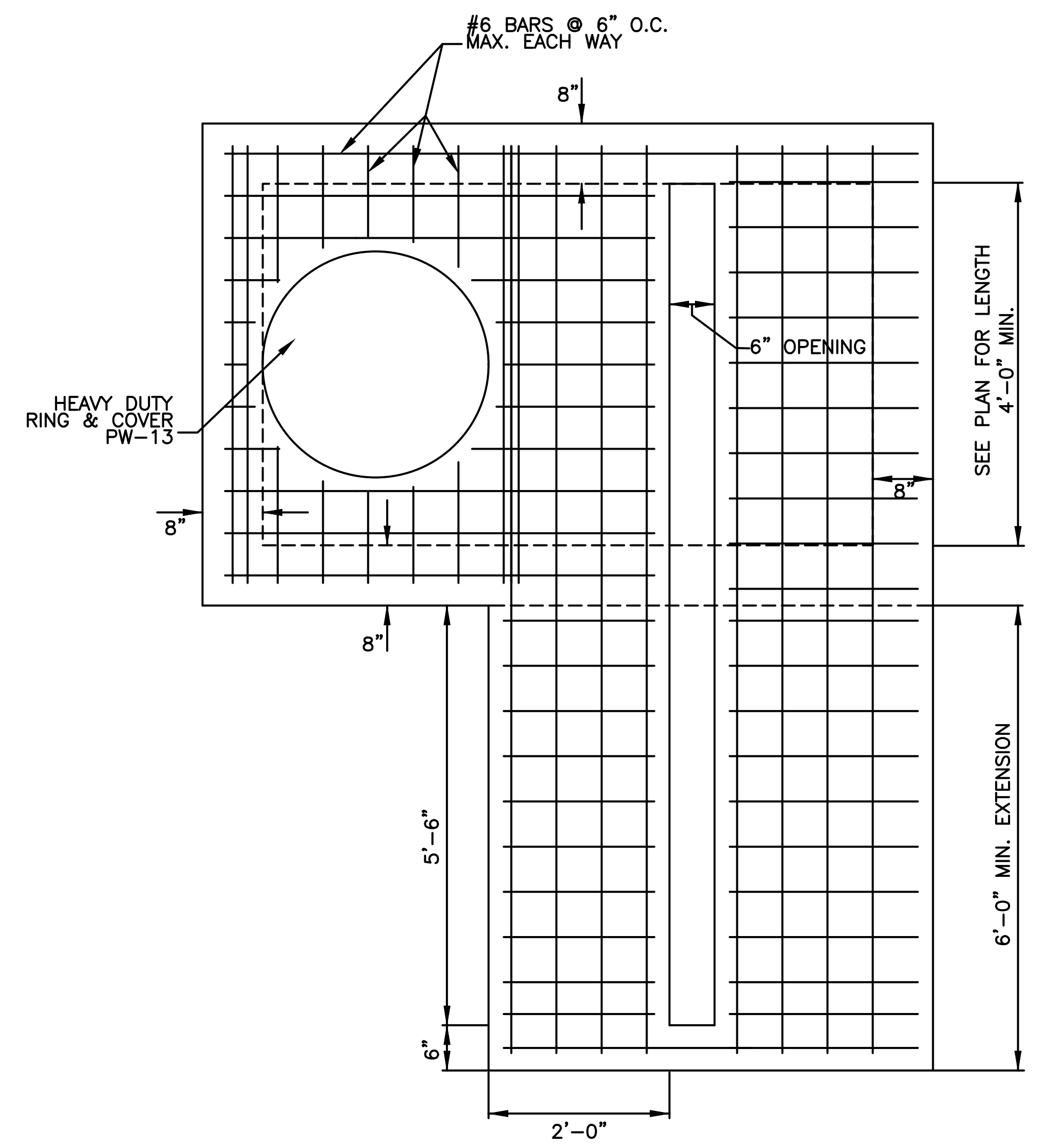
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PROJECT NO. 03-17-DR-107
SHEET NO. C4

REVISIONS	DATE

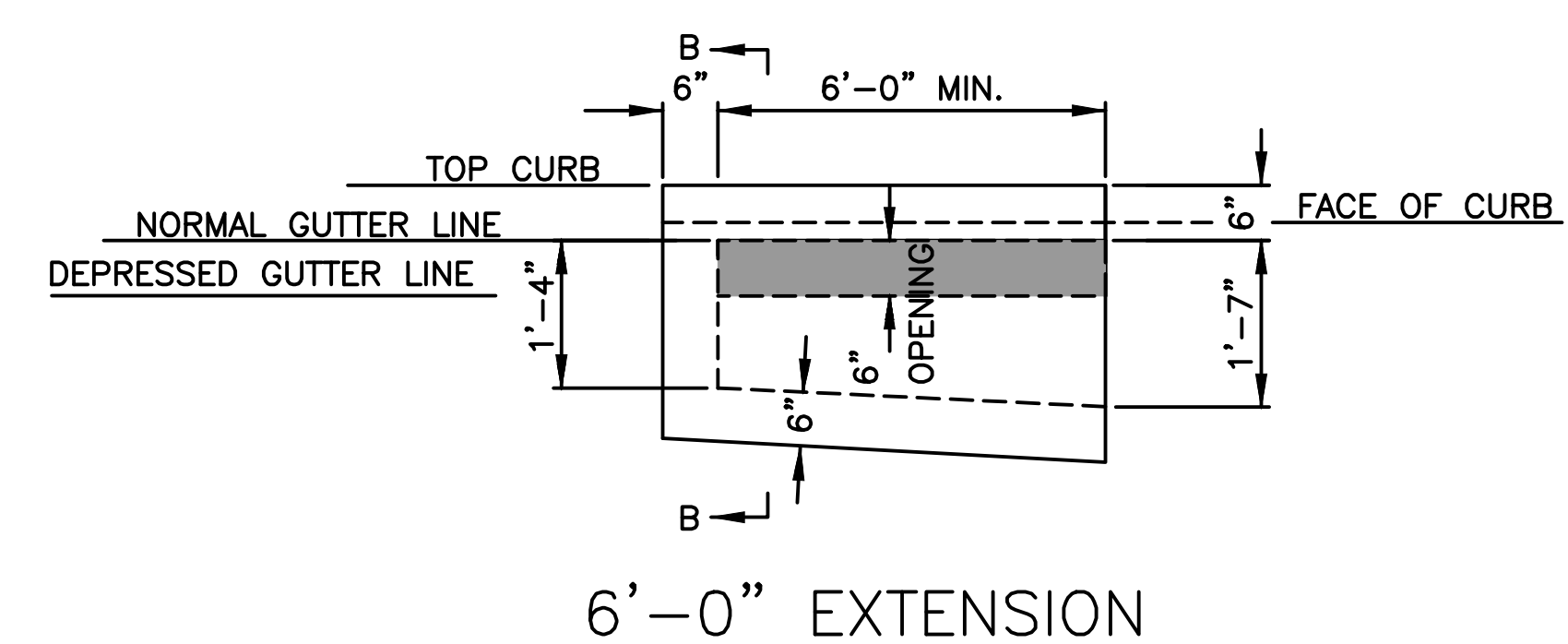


- NOTE:
1. ALL EXPOSED CORNERS SHALL HAVE 3/4" CHAMFER.
  2. ALL REINFORCING BARS SHALL BE GRADE 60.
  3. ALL WORK SHALL COMPLY WITH THE CITY OF LITTLE ROCK CONTRACT CONDITIONS AND SPECIFICATIONS.

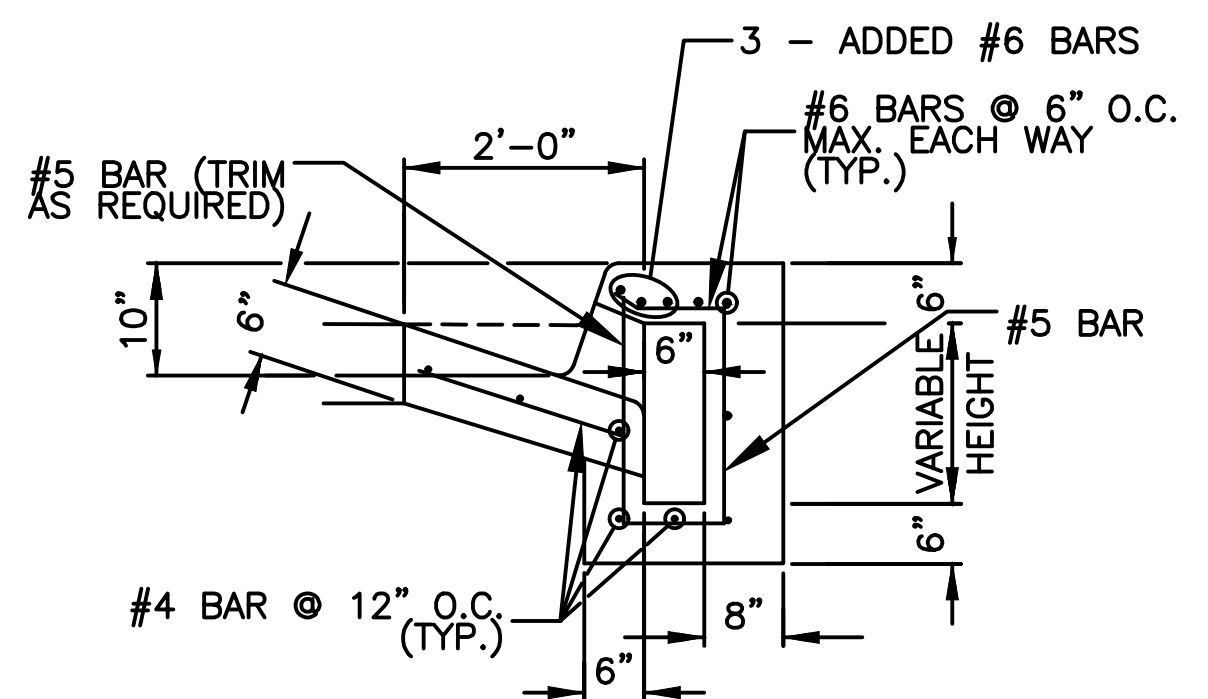
REVERSE THROAT CURB INLET  
CI-2, CI-5, CI-16



SECTION A-A  
(SHOWING BOTTOM MAT OF TOP SLAB)



REVERSE THROAT EXTENSION DETAIL  
N.T.S.

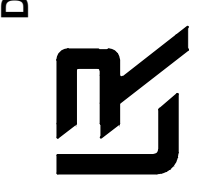


SECTION B-B

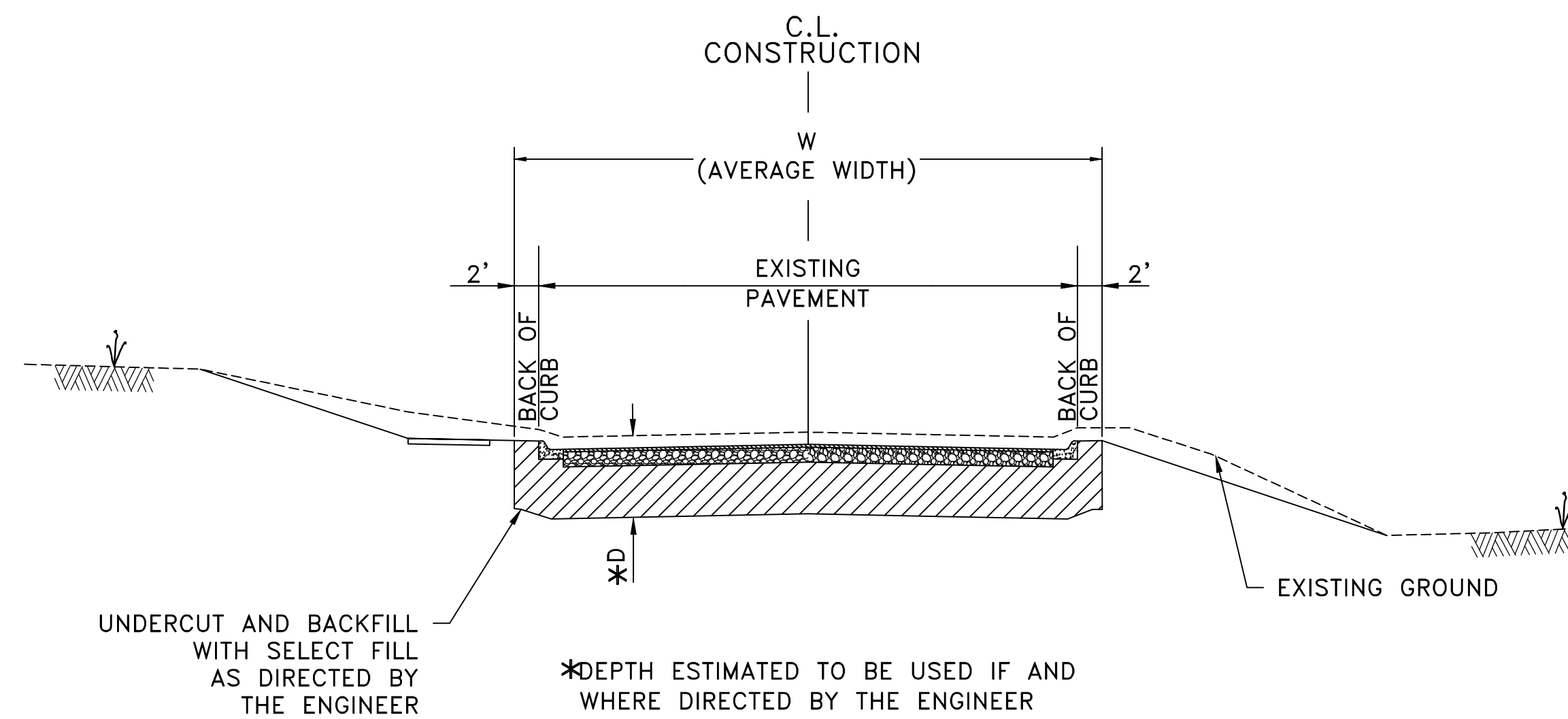
CITY OF LITTLE ROCK, ARKANSAS  
WEST 4TH STREET DRAINAGE  
AND STREET IMPROVEMENTS

SPECIAL DETAILS

DEPARTMENT OF PUBLIC WORKS  
CIVIL ENGINEERING  
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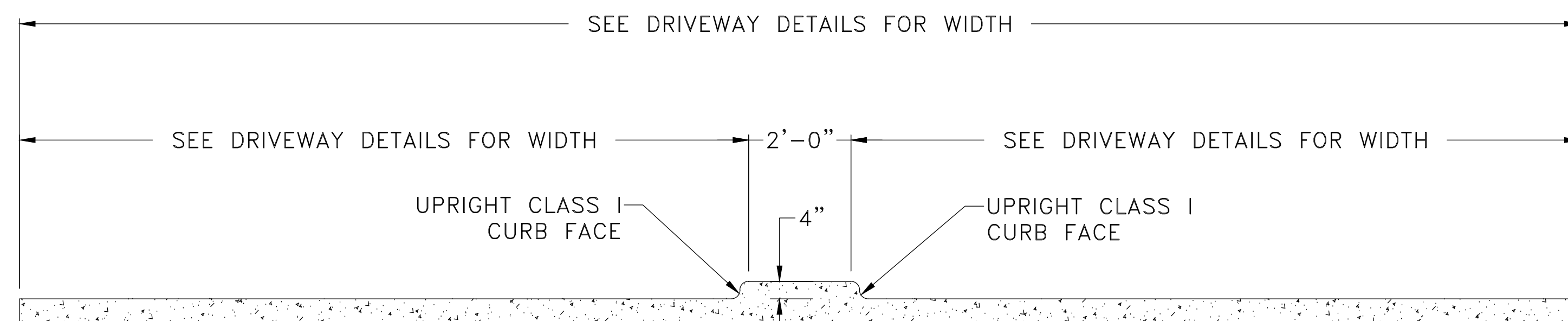
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PROJECT NO.	03-17-DR-107
SHEET NO.	C5



**DETAIL OF UNDERCUT**

ALL LOCATIONS OUTSIDE EXCAVATION LIMITS FOR REINFORCED CONCRETE BOX CULVERT.

WEST 4TH STREET	D = 3'-4"	W = 30' (AVG)
SOUTH VALENTINE STREET	D = 3'-4"	W = 35' (AVG)
VALMAR STREET	D = 3'-4"	W = 35' (AVG)

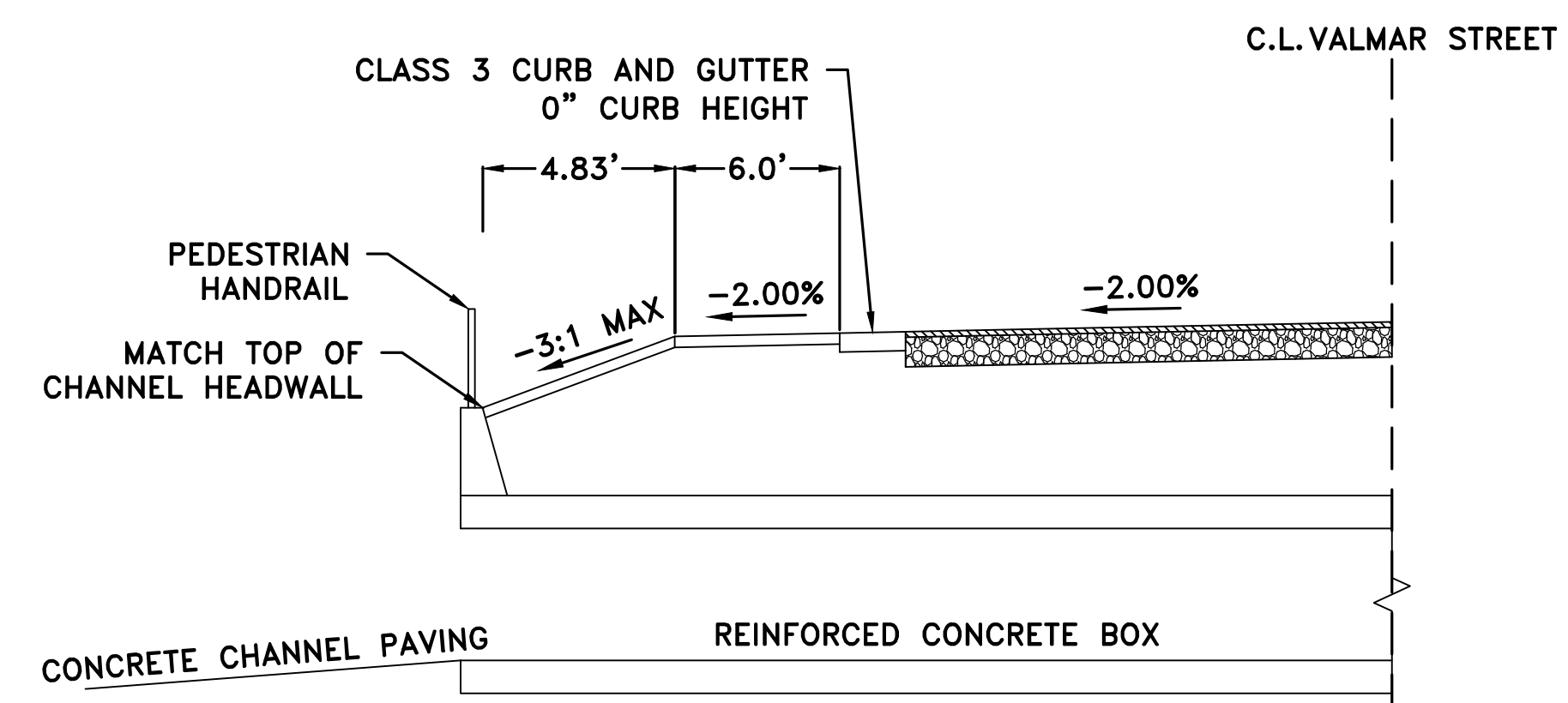
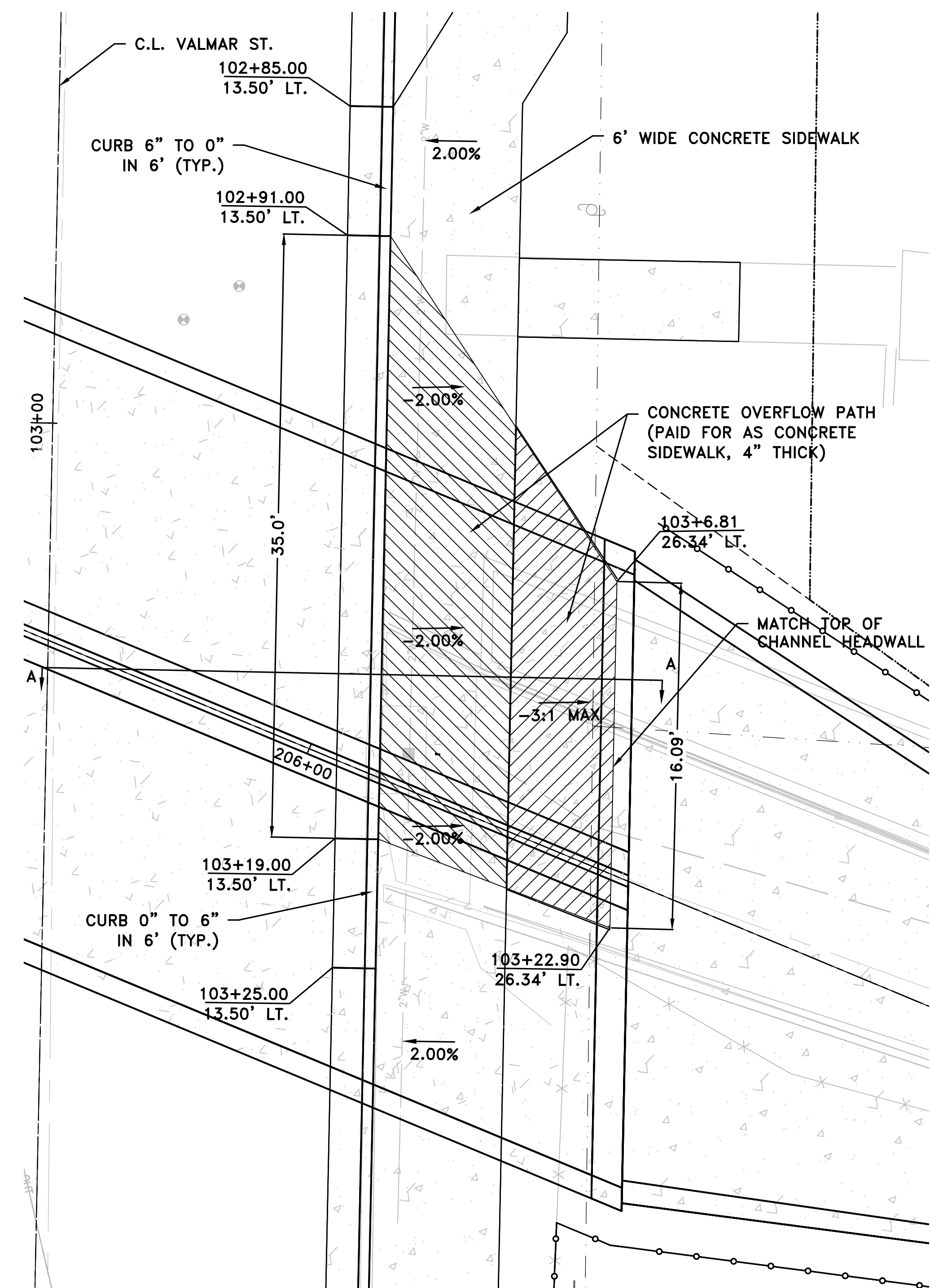


**CONCRETE ISLAND IN DRIVEWAY**

4TH STREET STA. 13+08.60 LT.

NOTE: SEE PW-30, 31, AND 36 FOR ADDITIONAL DETAILS AND GENERAL NOTES

**VALMAR STREET OVERFLOW PATH**



**SECTION A-A**

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
WEST 4TH STREET DRAINAGE  
AND STREET IMPROVEMENTS

SPECIAL DETAILS

DEPARTMENT OF PUBLIC WORKS  
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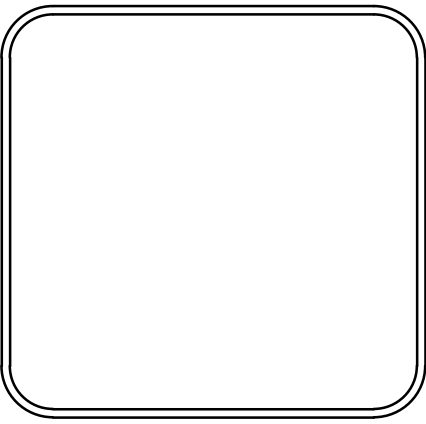
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N.T.S  
PROJECT NO.  
03-17-DR-107  
SHEET NO.

C6

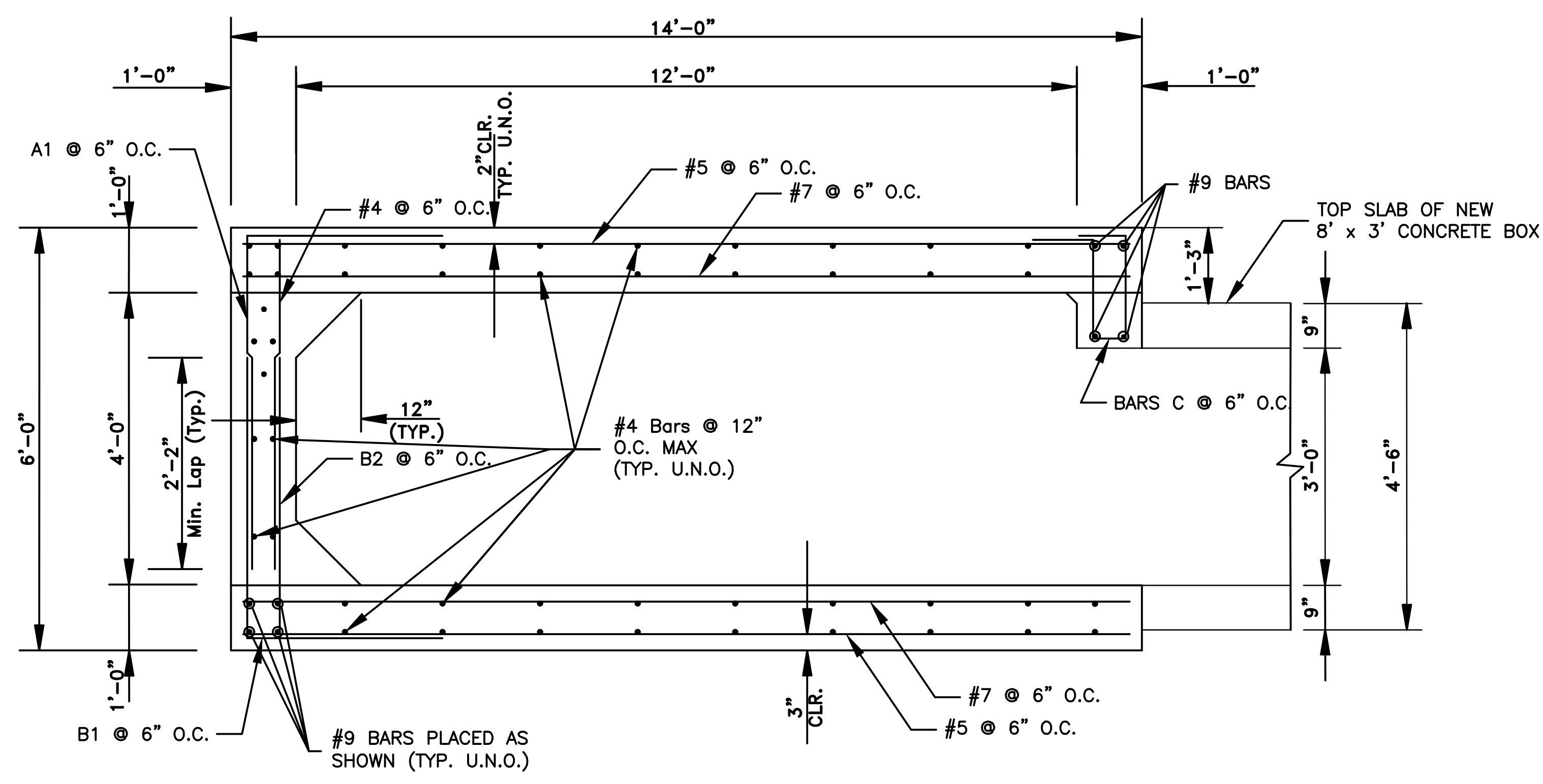
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 WEST 4TH STREET DRAINAGE  
 AND STREET IMPROVEMENTS

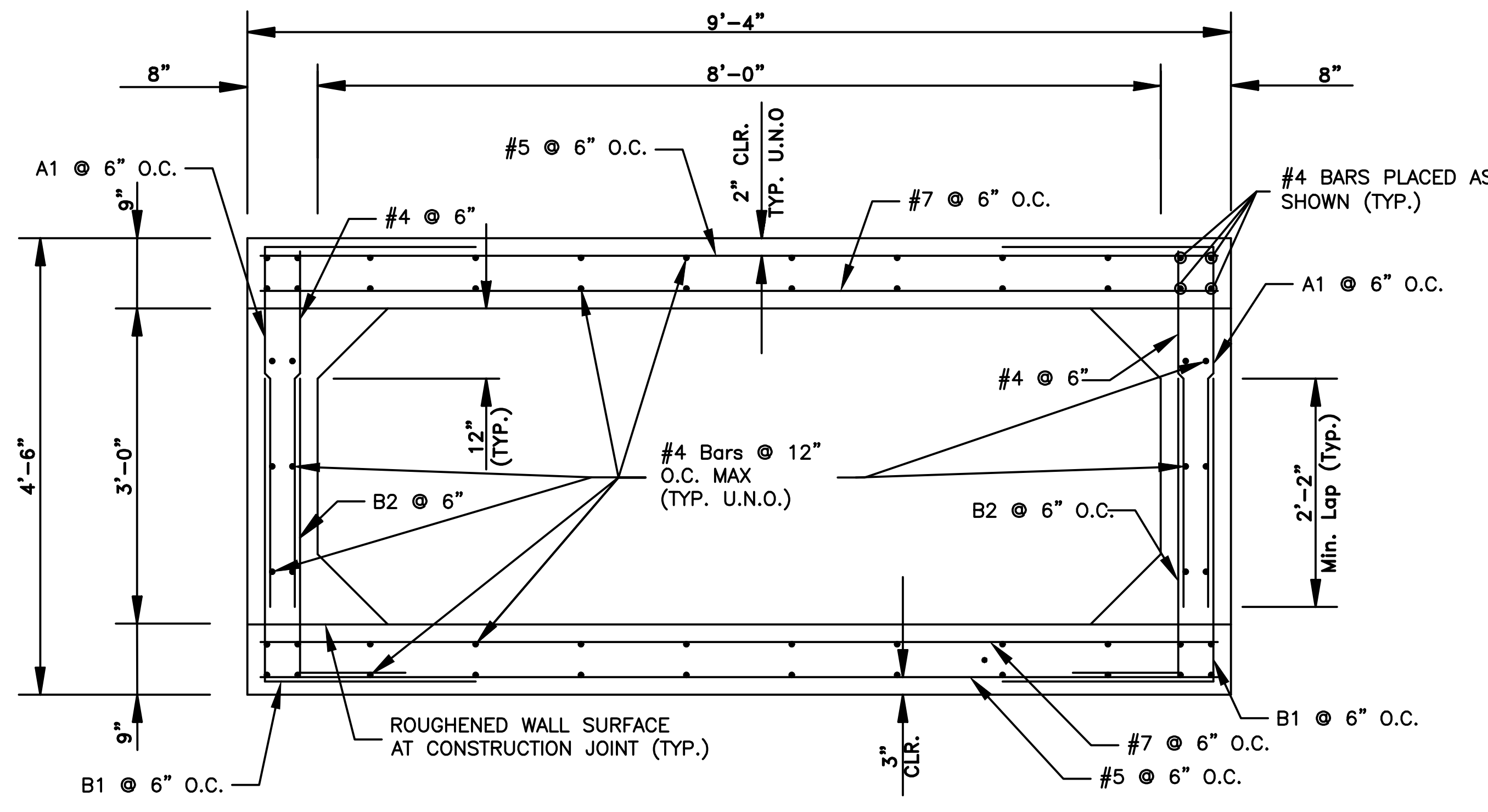
DEPARTMENT OF PUBLIC WORKS  
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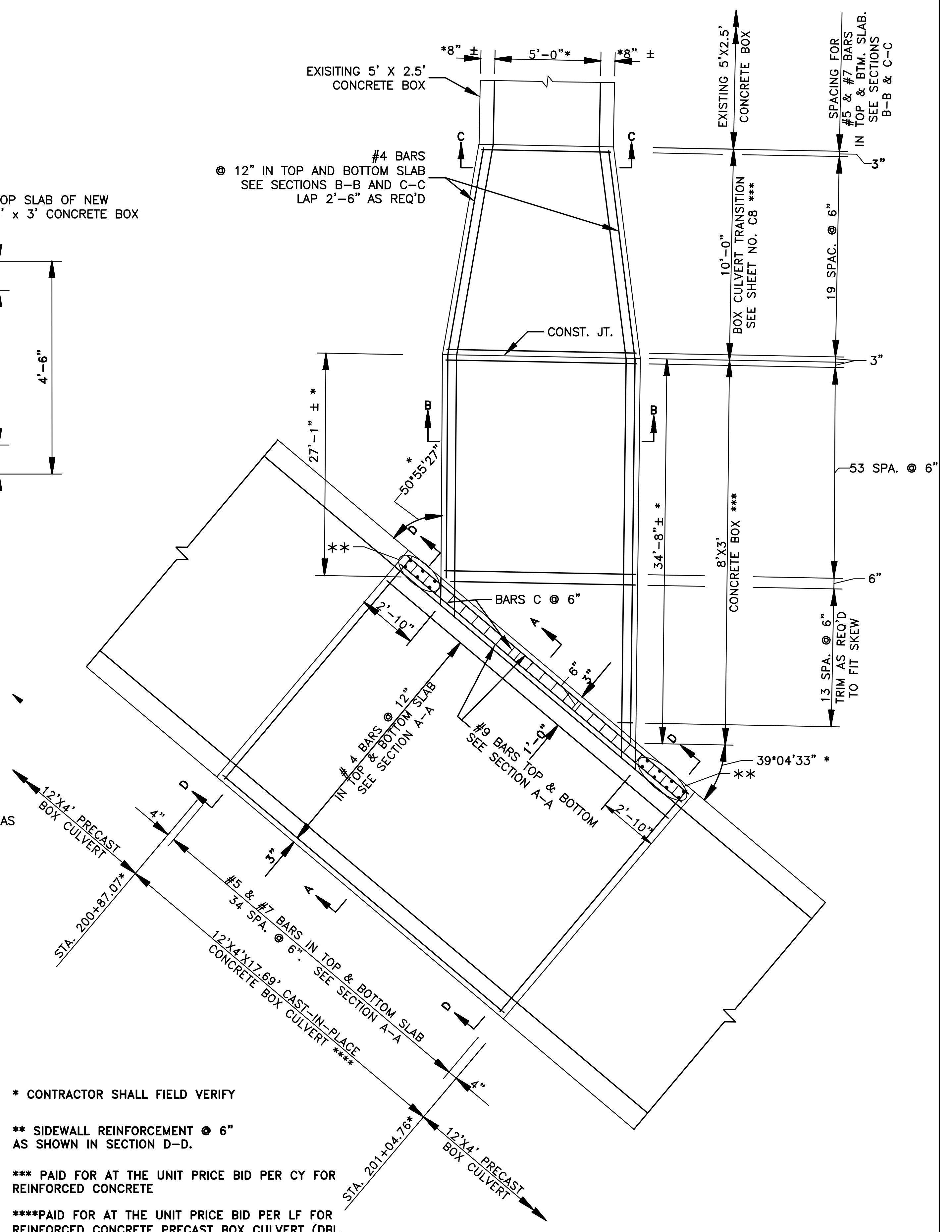
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**C7**



SECTION A-A



SECTION B-B



PLAN VIEW

SHOWING DIMENSION & REINFORCEMENT SPACING

\* CONTRACTOR SHALL FIELD VERIFY

\*\* SIDEWALL REINFORCEMENT @ 6" AS SHOWN IN SECTION D-D.

\*\*\* PAID FOR AT THE UNIT PRICE BID PER CY FOR REINFORCED CONCRETE

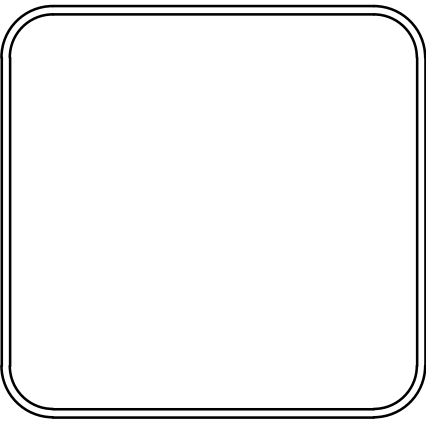
\*\*\*\*PAID FOR AT THE UNIT PRICE BID PER LF FOR REINFORCED CONCRETE PRECAST BOX CULVERT (DBL. 12' X 4')

REVISIONS	DATE

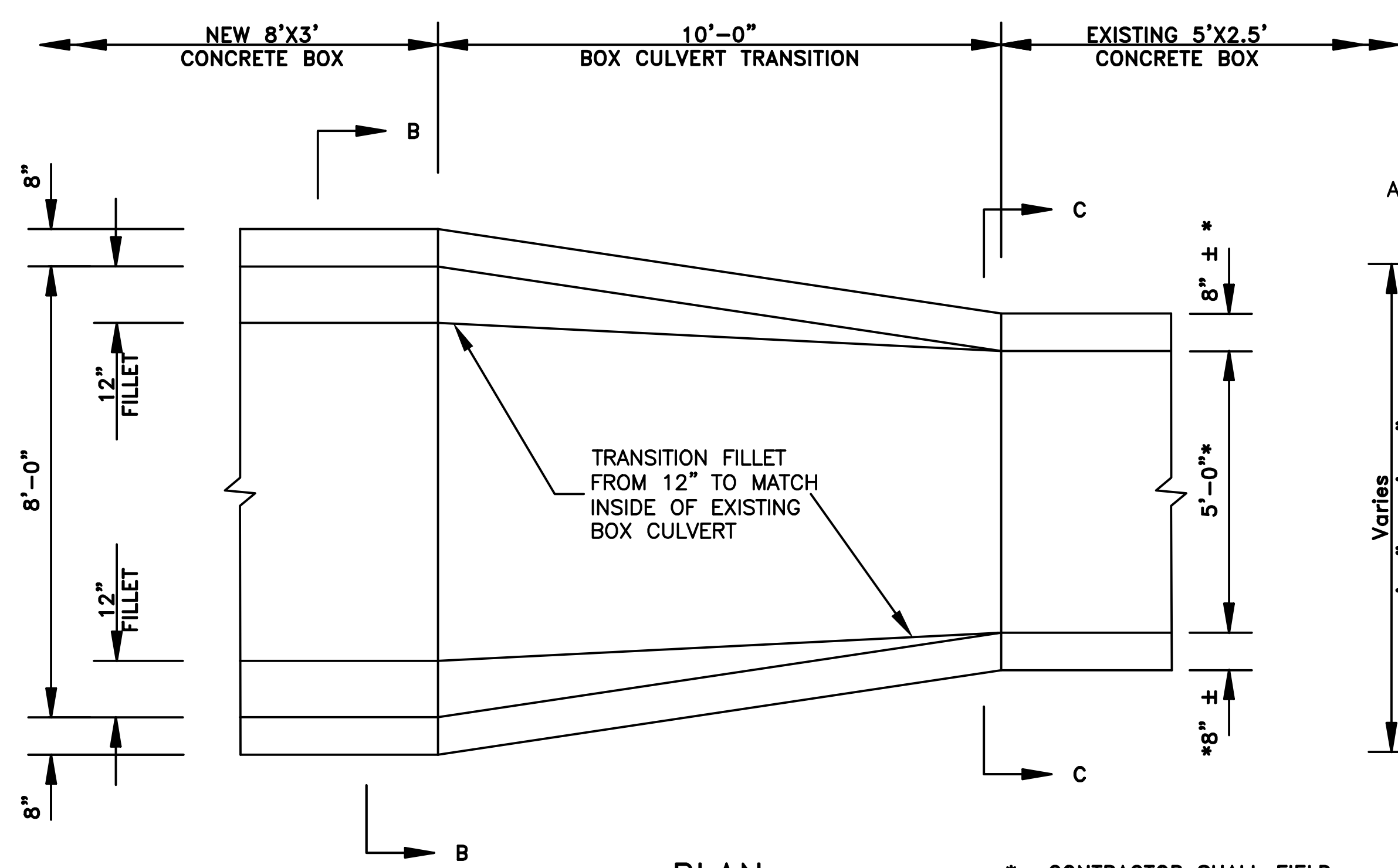
CITY OF LITTLE ROCK, ARKANSAS  
 WEST 4TH STREET DRAINAGE  
 AND STREET IMPROVEMENTS

SPECIAL DETAILS

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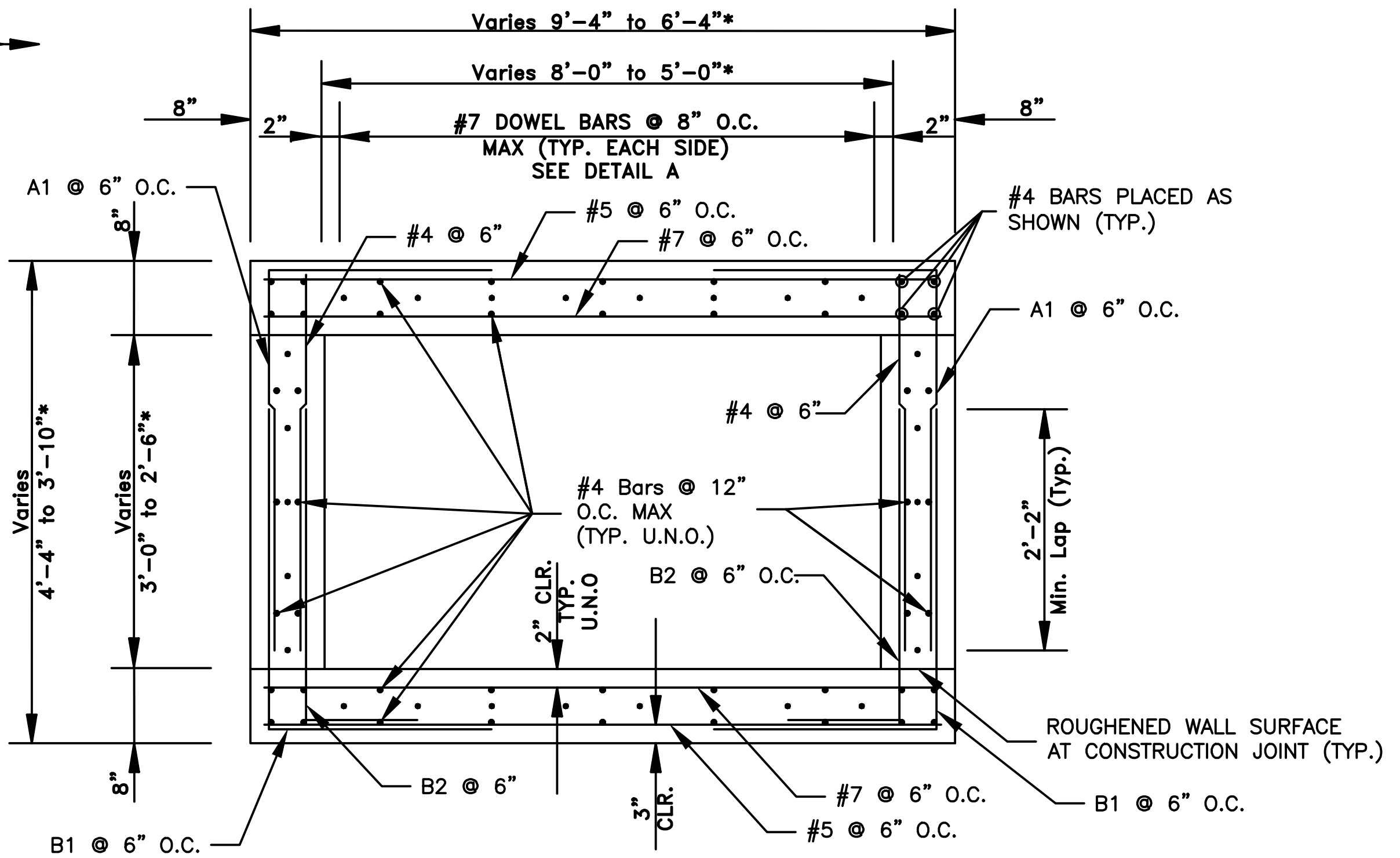


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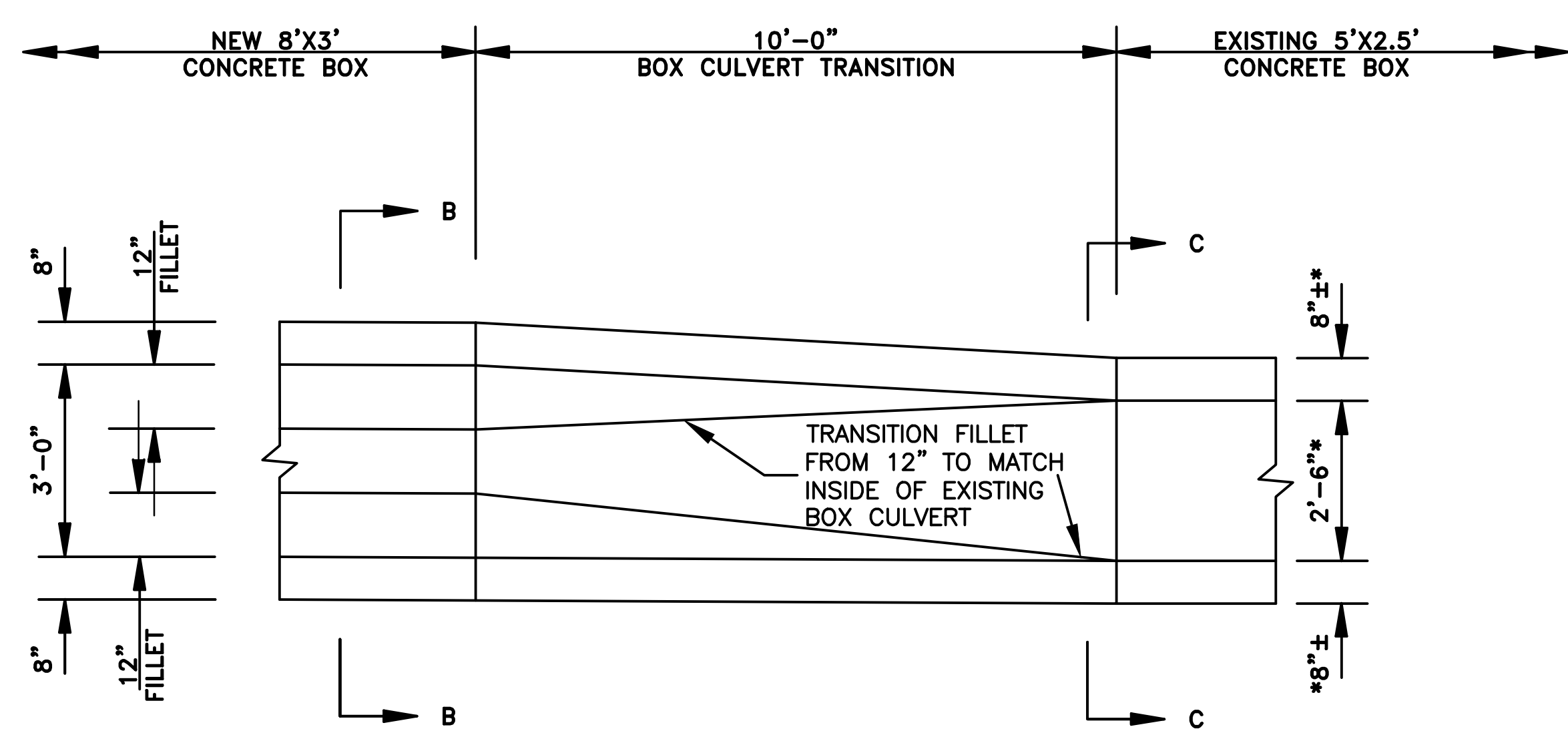


PLAN

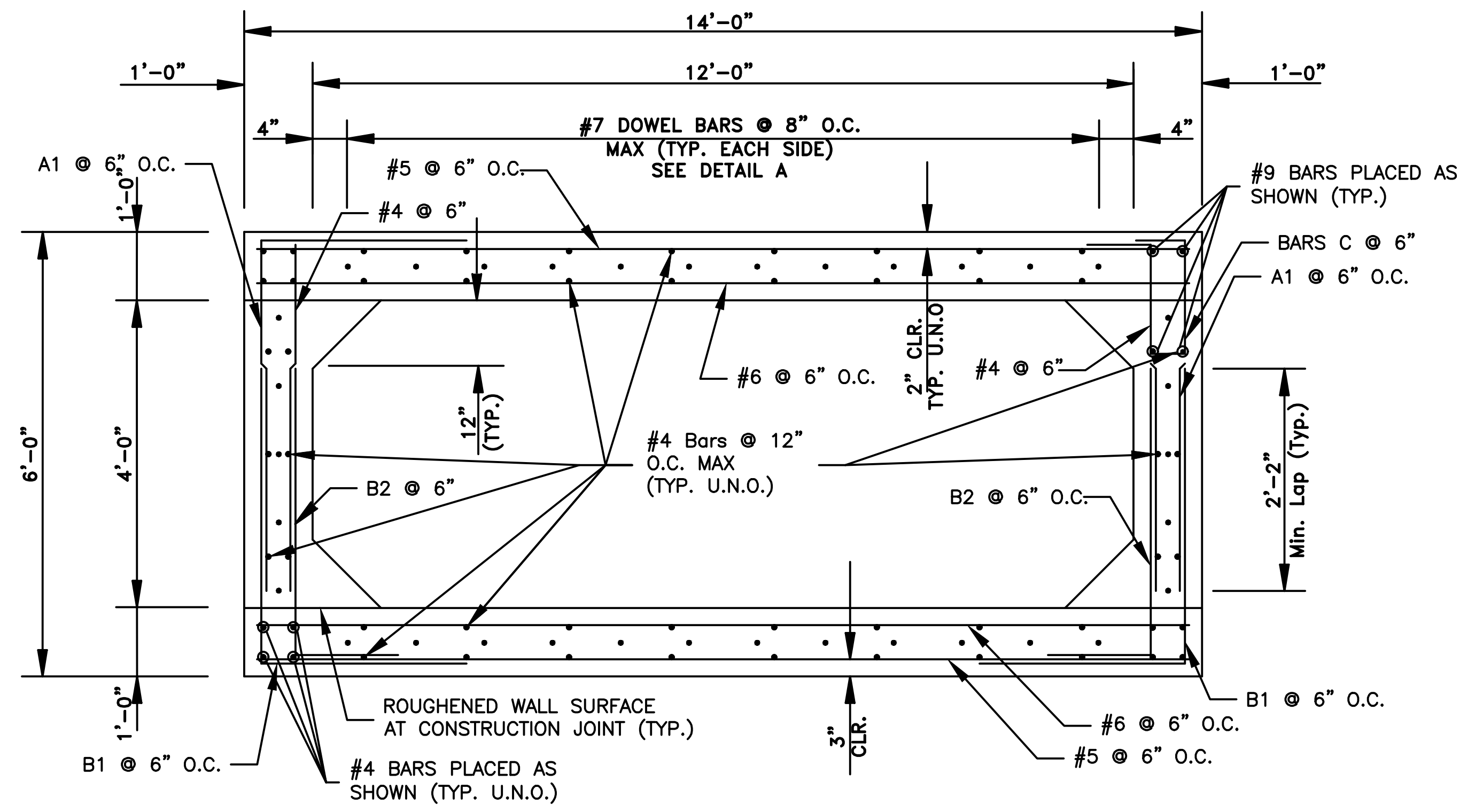
\* CONTRACTOR SHALL FIELD VERIFY. NEW BOX CULVERT TRANSITION SHALL MATCH DIMENSIONS OF EXISTING BOX CULVERT



SECTION C-C



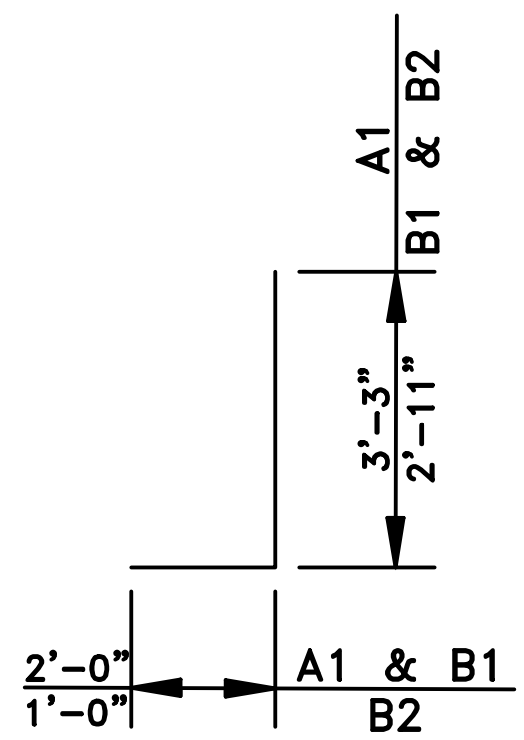
ELEVATION



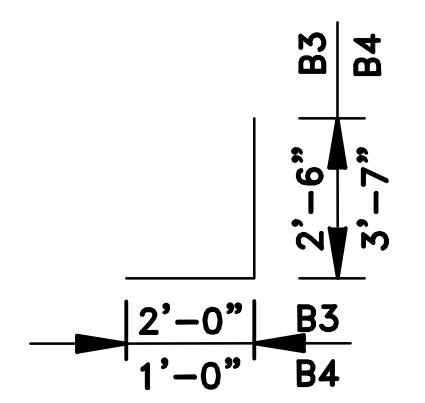
SECTION D-D



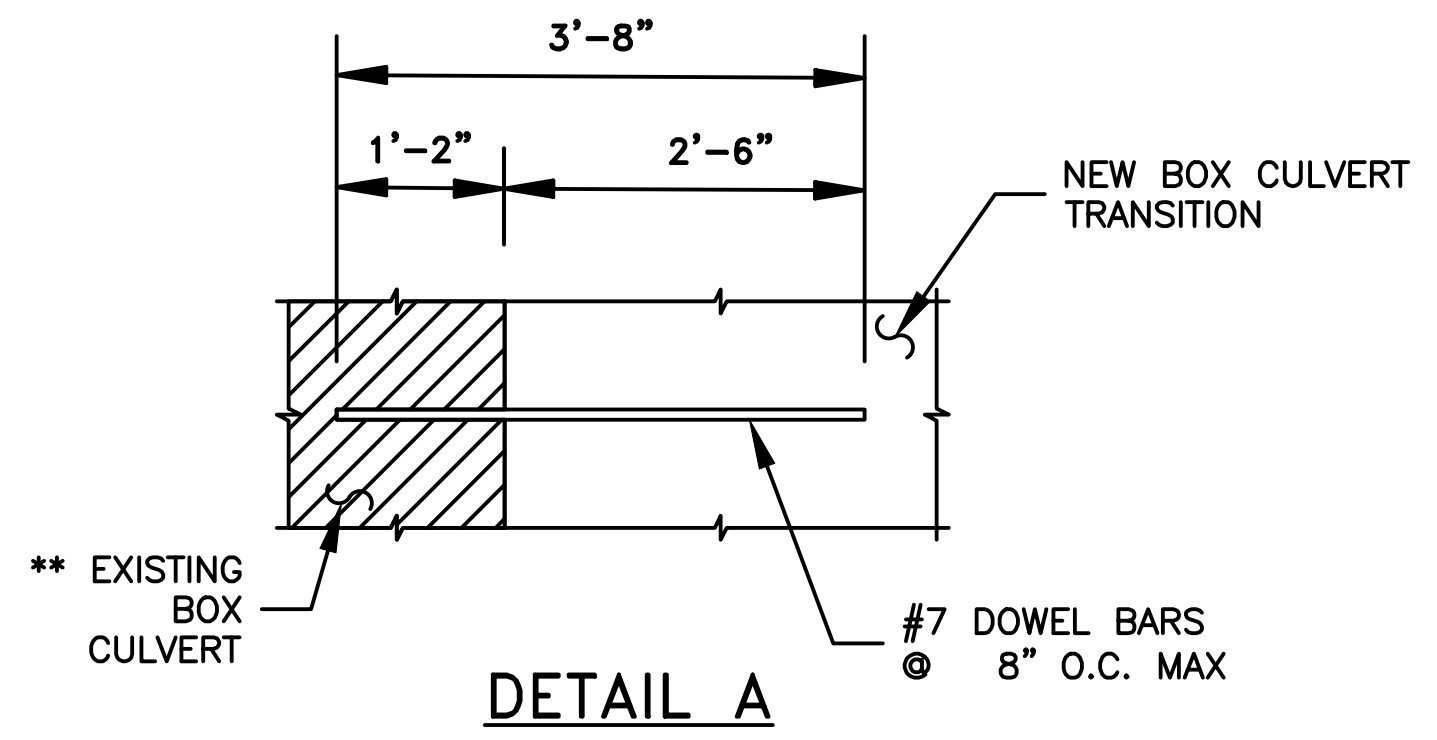
REVISIONS	DATE



A1, B1, & B2 - #5

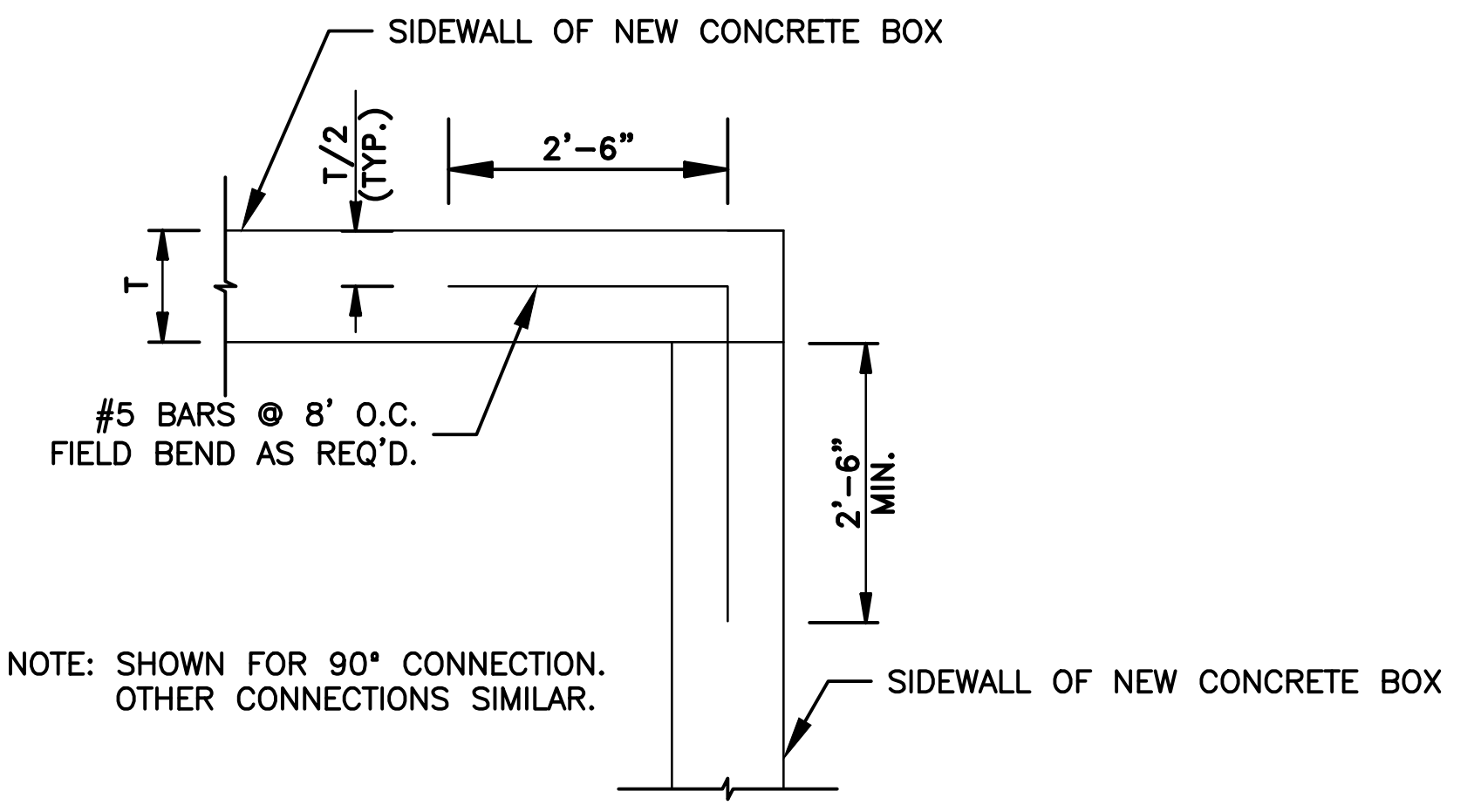


B3 & B4 - #5

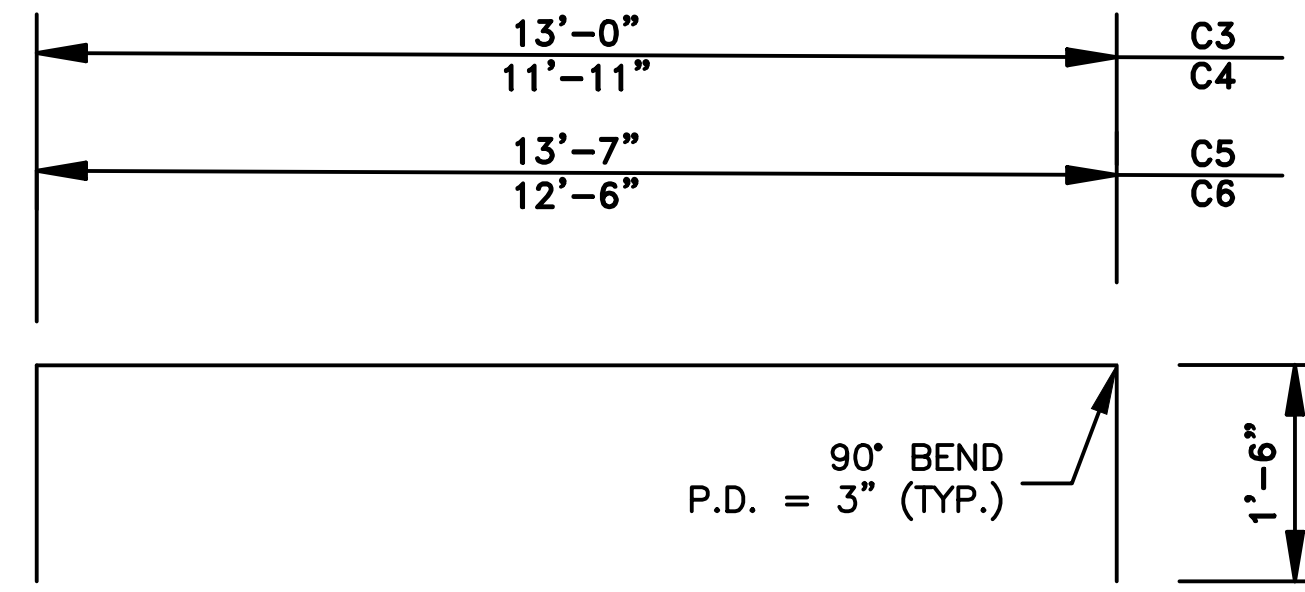


**DETAIL A**

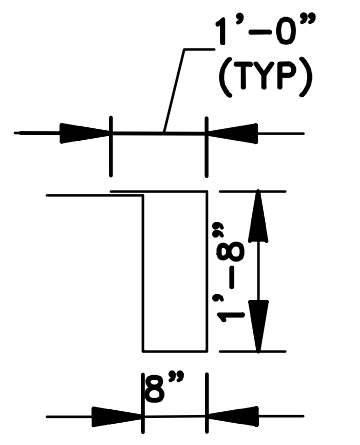
\*\* BARS SHOWN TO BE EMBEDDED TO EXISTING BOX CULVERT SHALL BE SECURED USING HILTI HIT RE500 EPOXY ANCHOR OR APPROVED EQUAL. ALL BARS SHALL BE EMBEDDED TO DEPTH SHOWN IN DETAIL A IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. HOLES FOR EMBEDDED BARS SHALL BE DRILLED 1/4" LARGER IN DIAMETER THAN THE BAR.



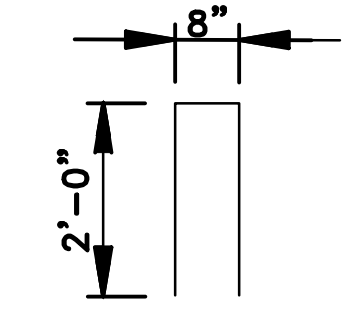
PLAN VIEW - CORNER DETAIL  
SHOWING CONNECTIONS AT NEW CAST-IN-PLACE CONCRETE BOXES



C3-C6 BARS - #4



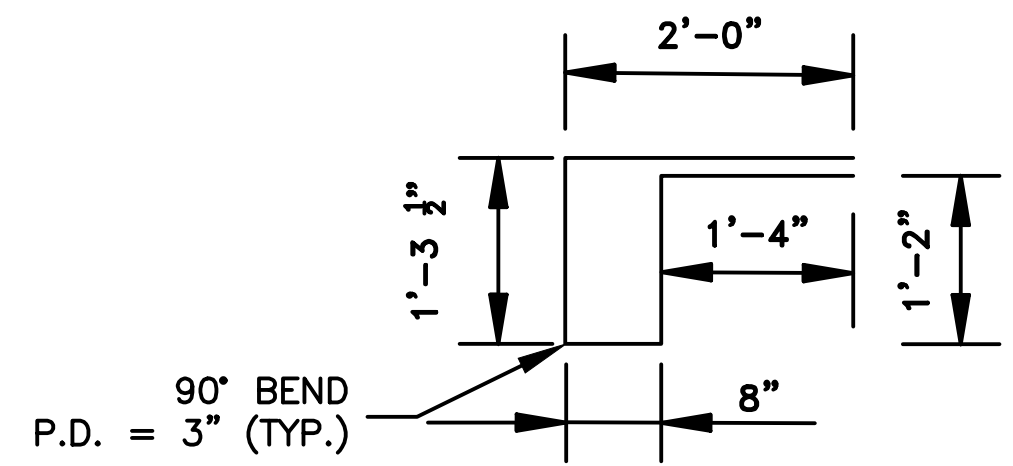
C BARS - #5



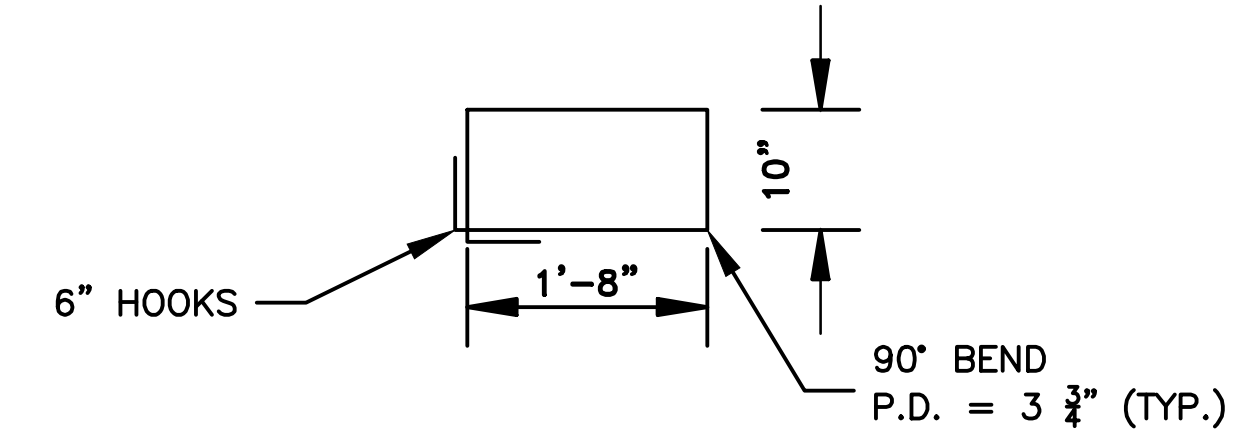
BARS D - #5

**GENERAL NOTES:**

1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE CITY OF LITTLE ROCK CONTRACT CONDITIONS AND SPECIFICATIONS.
2. CONCRETE: CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED 3/4". ALL CONCRETE SHALL BE CLASS S WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH F'C=3,500 PSI.
3. REINFORCING STEEL: ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 OR M53, GRADE 60 AND HAVE A 2" MINIMUM CLEARANCE UNLESS OTHERWISE NOTED ON PLANS.
4. REINFORCING STEEL IN BOTTOM SLAB SHALL BE SUPPORTED ON BAR CHAIRS. CHAIRS SHALL BE SUPPORTED ON TIMBER PLANKS OR CLASS C CONCRETE STRIPS SPACED AT 4.0 FOOT CENTERS. THE TOP CHAIR SUPPORTS SHALL BE AT THE ELEVATION OF THE BOTTOM OF THE FOOTING.
5. REINFORCING STEEL IN THE TOP SLAB SHALL BE SUPPORTED ON SLAB SPACERS.
6. REINFORCING STEEL IN THE WALLS SHALL BE HELD IN PLACE BY METAL CHAIRS. MAXIMUM SPACING OF CHAIRS SHALL BE ON 6.0 FOOT CENTERS.
7. COST OF METAL CHAIRS, WOOD PLANKS OR CONCRETE STRIPS SHALL BE INCLUDED ON OTHER ITEMS OF WORK.
8. EXCAVATION AND BACKFILL REQUIRED TO CONSTRUCT THE BOX CULVERT WILL NOT BE MEASURED FOR SEPARATE PAYMENT, BUT WILL BE CONSIDERED SUBSIDIARY WORK PERTAINING TO THE CONSTRUCTION OF THE BOX CULVERT.



C2 BARS - #4



C1 BARS - #5

CITY OF LITTLE ROCK, ARKANSAS  
WEST 4TH STREET DRAINAGE  
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SPECIAL DETAILS

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



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SHEET NO. C9

REVISIONS	DATE

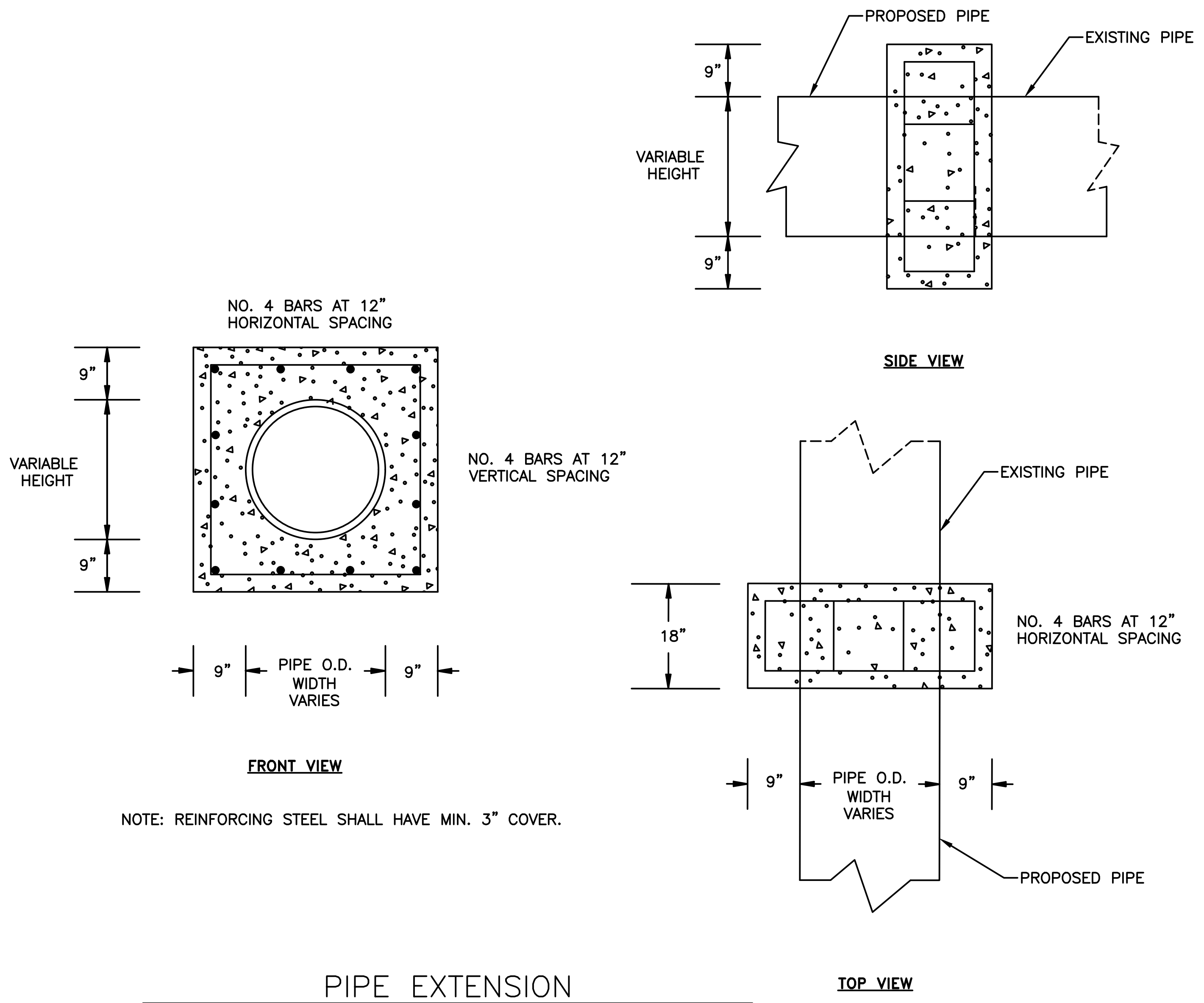
CITY OF LITTLE ROCK, ARKANSAS  
 WEST 4TH STREET DRAINAGE  
 AND STREET IMPROVEMENTS

SPECIAL DETAILS

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



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DESIGNED	RCC
CHECKED	RCC
DATE	10-11-2024
SCALE	N.T.S
PROJECT NO.	03-17-DR-107
SHEET NO.	C10



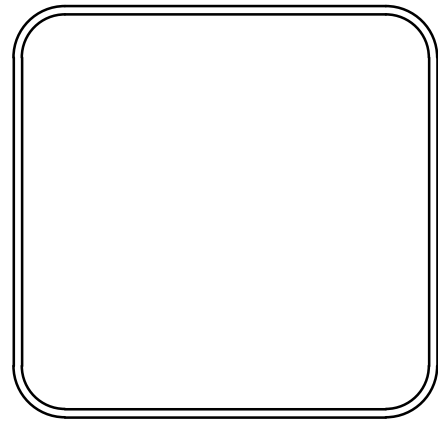
PIPE EXTENSION  
 REINFORCED CONCRETE COLLAR DETAIL

REVISIONS	DATE

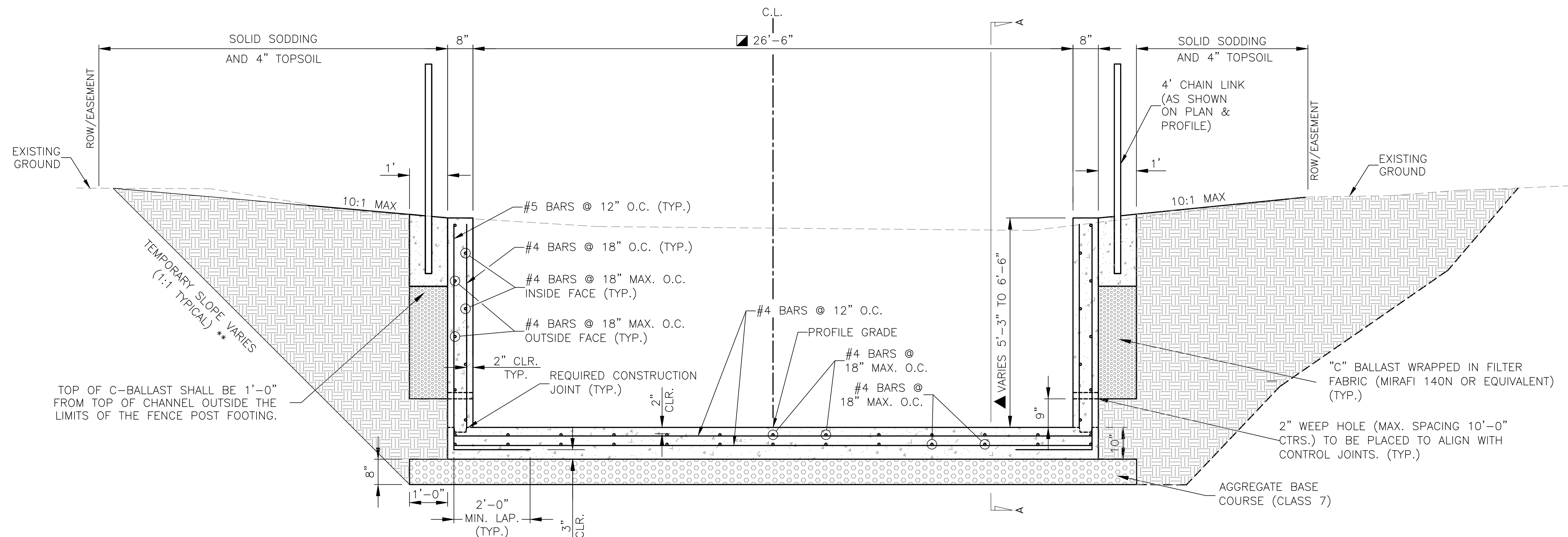
CITY OF LITTLE ROCK, ARKANSAS  
 WEST 4TH STREET DRAINAGE  
 AND STREET IMPROVEMENTS

SPECIAL DETAILS

DEPARTMENT OF PUBLIC WORKS  
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DESIGNED WMM
CHECKED RCC
DATE 10-11-2024
SCALE N.T.S
PROJECT NO. 03-17-DR-107
SHEET NO. C11



GENERAL NOTES:

CONCRETE: CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED 3/4". ALL CONCRETE SHALL BE CLASS S WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH F'C=3,500 PSI.

REINFORCING STEEL: ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 OR M53, GRADE 60.

LONGITUDINAL BARS ON THE INSIDE AND OUTSIDE FACE OF THE CONCRETE CHANNEL SHALL BE STAGGERED.

LAP LENGTH FOR #4 BARS SHALL BE 1'-9" MINIMUM.

TOE WALL TO BE CONSTRUCTED FULL WIDTH AT THE INLET END OF THE CONCRETE CHANNEL AND TO BE POURED MONOLITHICALLY.

ALL ROCK EXCAVATION WILL BE PAID FOR PER THE UNIT PRICE BID FOR "UNCLASSIFIED EXCAVATION".

REMOVAL OF TREES/SHRUBS SHALL NOT BE MEASURED FOR SEPARATE PAYMENT, BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "SITE PREPARATION."

THE CONTRACTOR SHALL HAVE THE OPTION TO UTILIZE "C" BALLAST IN PLACE OF THE AGGREGATE BASE COURSE (CLASS 7) SPECIFIED UNDER THE CHANNEL AND BOX CULVERTS, AT THE UNIT PRICE BID FOR AGGREGATE BASE COURSE (CLASS 7).

NOTE: PROVIDE KEYWAY AT BASE OF WALLS. SEE KEYWAY DETAIL.

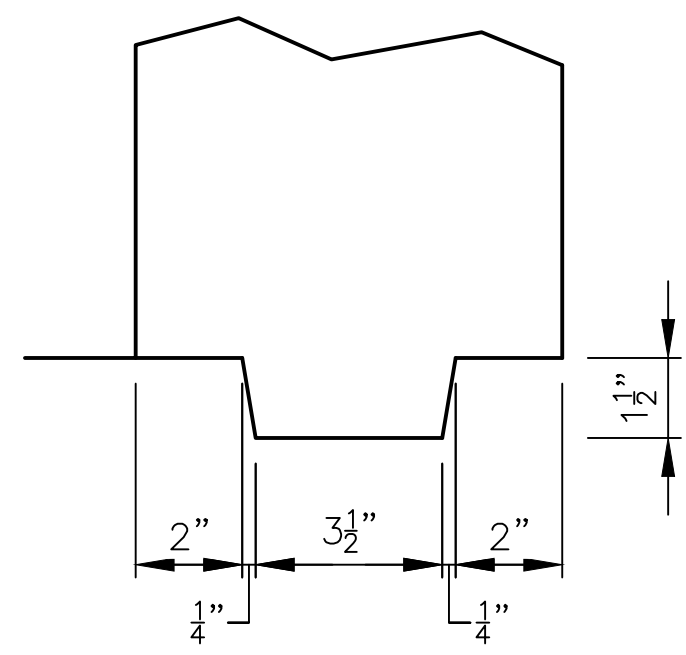
▲ TRANSITION FROM TO 5'-3" AT STA. 200+59 TO 6'-6" AT STA. 200+79 AND TRANSITION FROM 6'-0" AT STA. 203+40 TO 6'-6" AT STA. 203+60

▣ CHANNEL WIDTH VARIES FROM STA. 206+16.03 TO STA. 206+56.24. SEE PLAN AND PROFILE FOR ADDITIONAL DETAILS

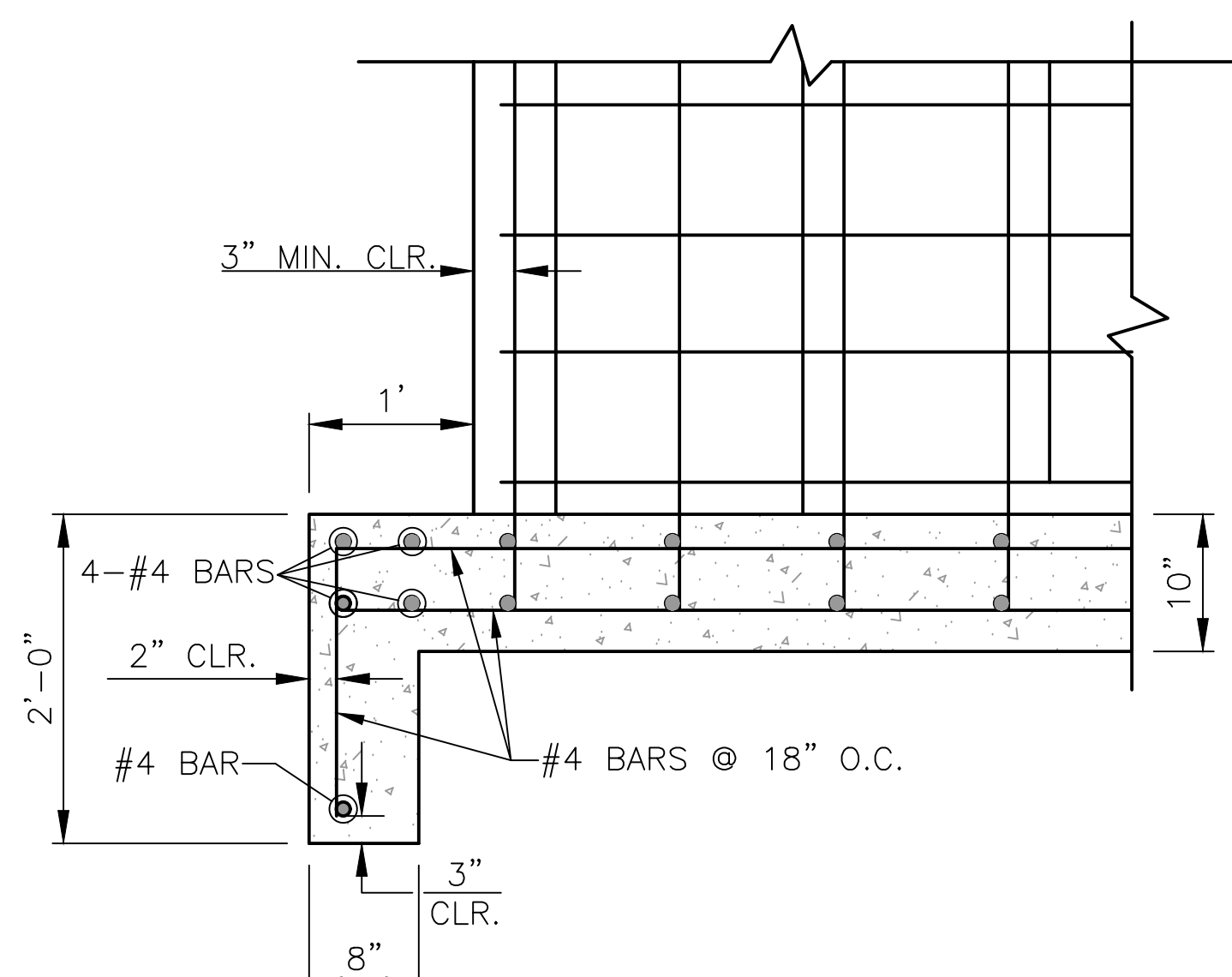
\*\* SOIL TYPE SHALL BE DETERMINED IN THE FIELD AND THE APPROPRIATE OSHA SLOPING OR BENCHING METHOD SHALL BE SELECTED.

REINFORCED CONCRETE CHANNEL TYPICAL SECTION

STA. 200+59.00 TO STA. 200+79.00  
 STA. 202+81.07 TO STA. 204+18.28  
 STA. 206+16.03 TO STA. 206+56.24

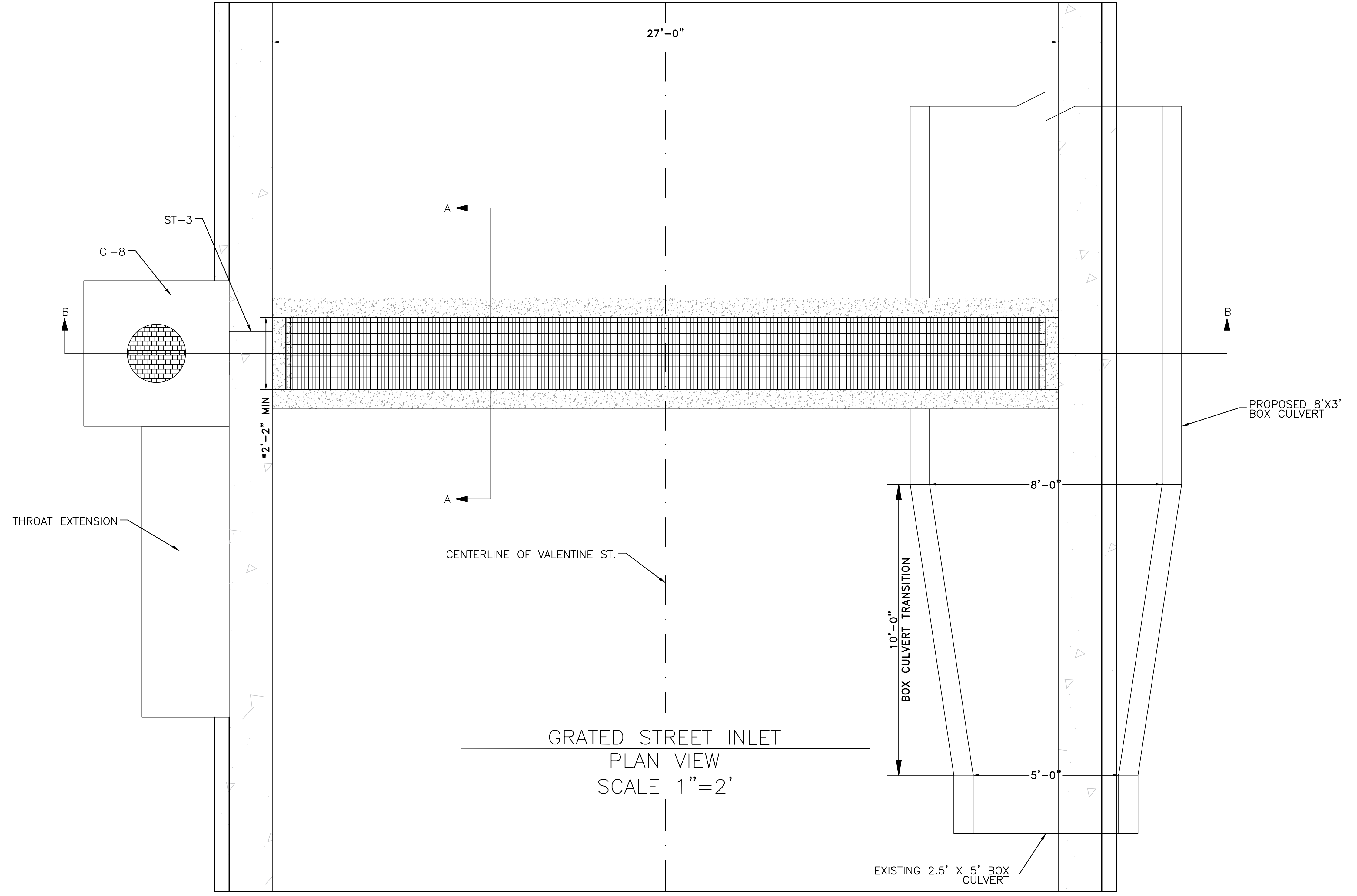


KEYWAY DETAIL



TOE WALL AT INLET  
 OF CONCRETE CHANNEL  
 AT STA. 200+59  
 SECTION A-A





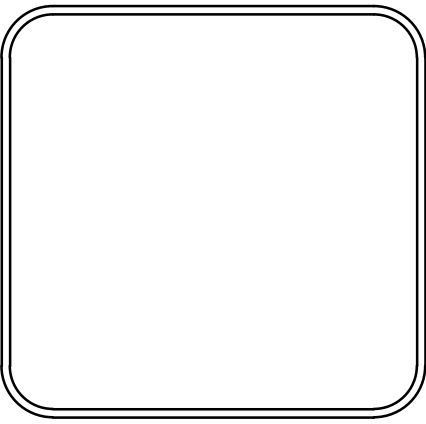
GRATED STREET INLET  
 PLAN VIEW  
 SCALE 1"=2'

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 WEST 4TH STREET DRAINAGE  
 AND STREET IMPROVEMENTS

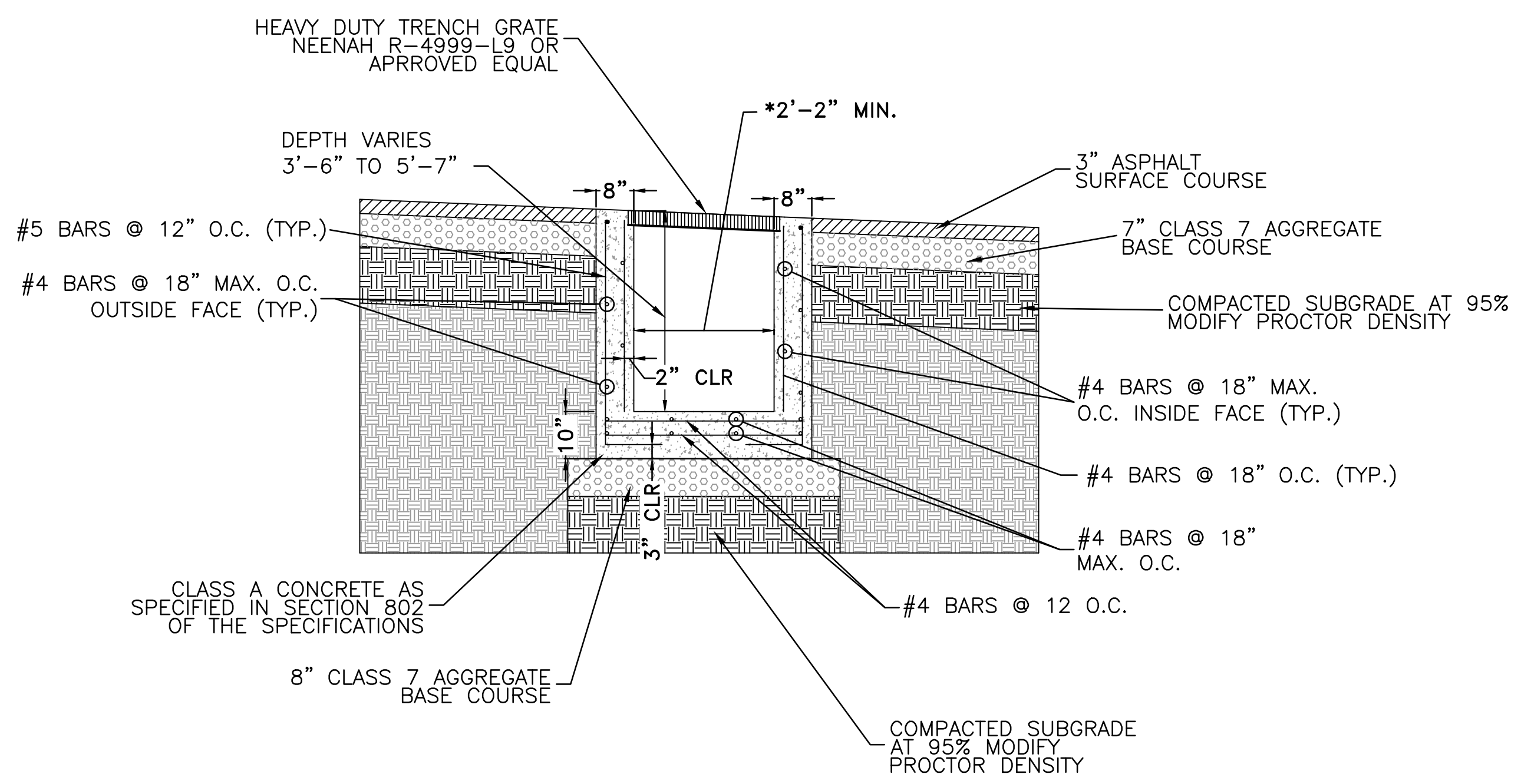
SPECIAL DETAILS

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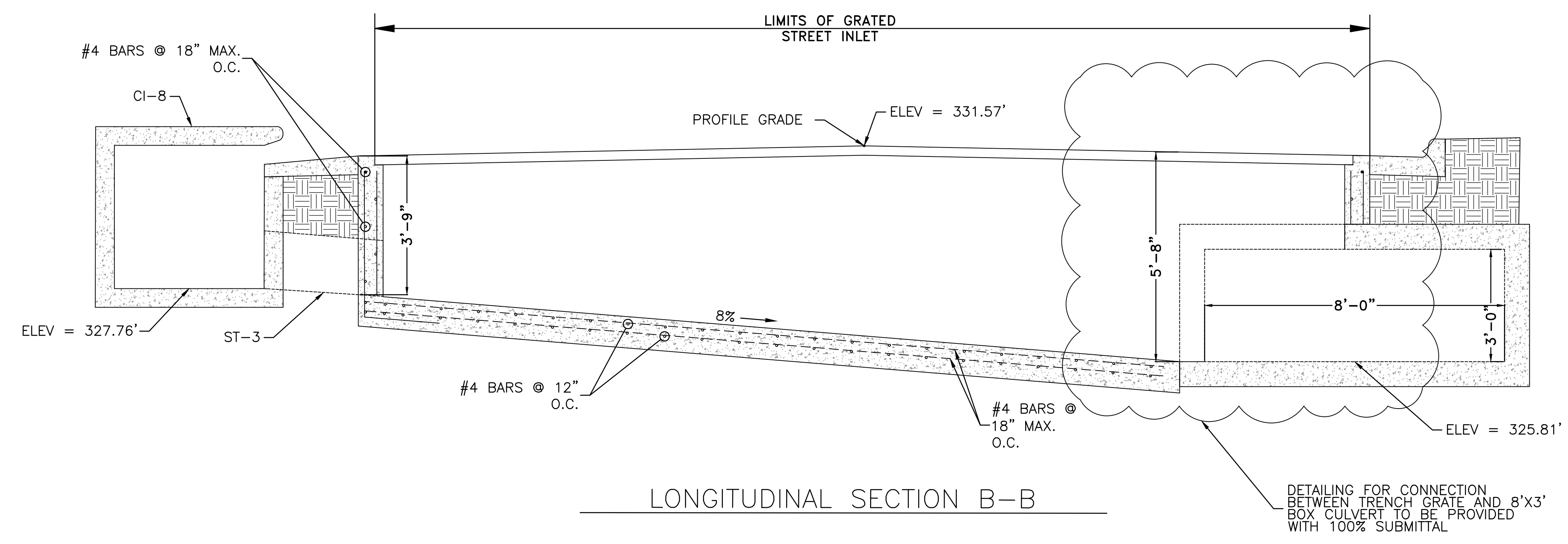
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CHECKED RCC
DATE 10-11-2024
SCALE N.T.S
PROJECT NO. 03-17-DR-107
SHEET NO. C13

REVISIONS	DATE



SECTION A-A GRATED STREET INLET

\* TRENCH WIDTH SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR THE GRATED STREET INLET, BUT SHALL NOT BE LESS THAN 2'-2".

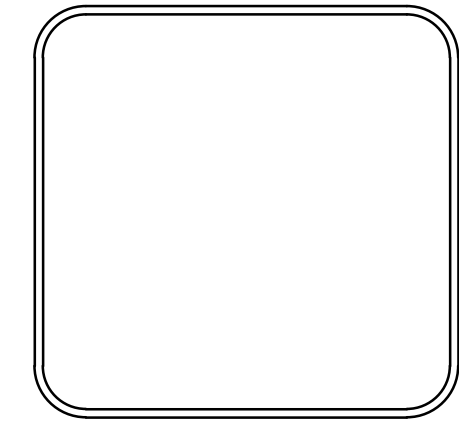


LONGITUDINAL SECTION B-B

DETAILING FOR CONNECTION BETWEEN TRENCH GRATE AND 8'X3' BOX CULVERT TO BE PROVIDED WITH 100% SUBMITTAL

CITY OF LITTLE ROCK, ARKANSAS  
 WEST 4TH STREET DRAINAGE  
 AND STREET IMPROVEMENTS  
 SPECIAL DETAILS

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 CIVIL ENGINEERING  
 701 W. MARKHAM  
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DESIGNED	RCC
CHECKED	RCC
DATE	10-11-2024
SCALE	N.T.S
PROJECT NO.	03-17-DR-107
SHEET NO.	C14

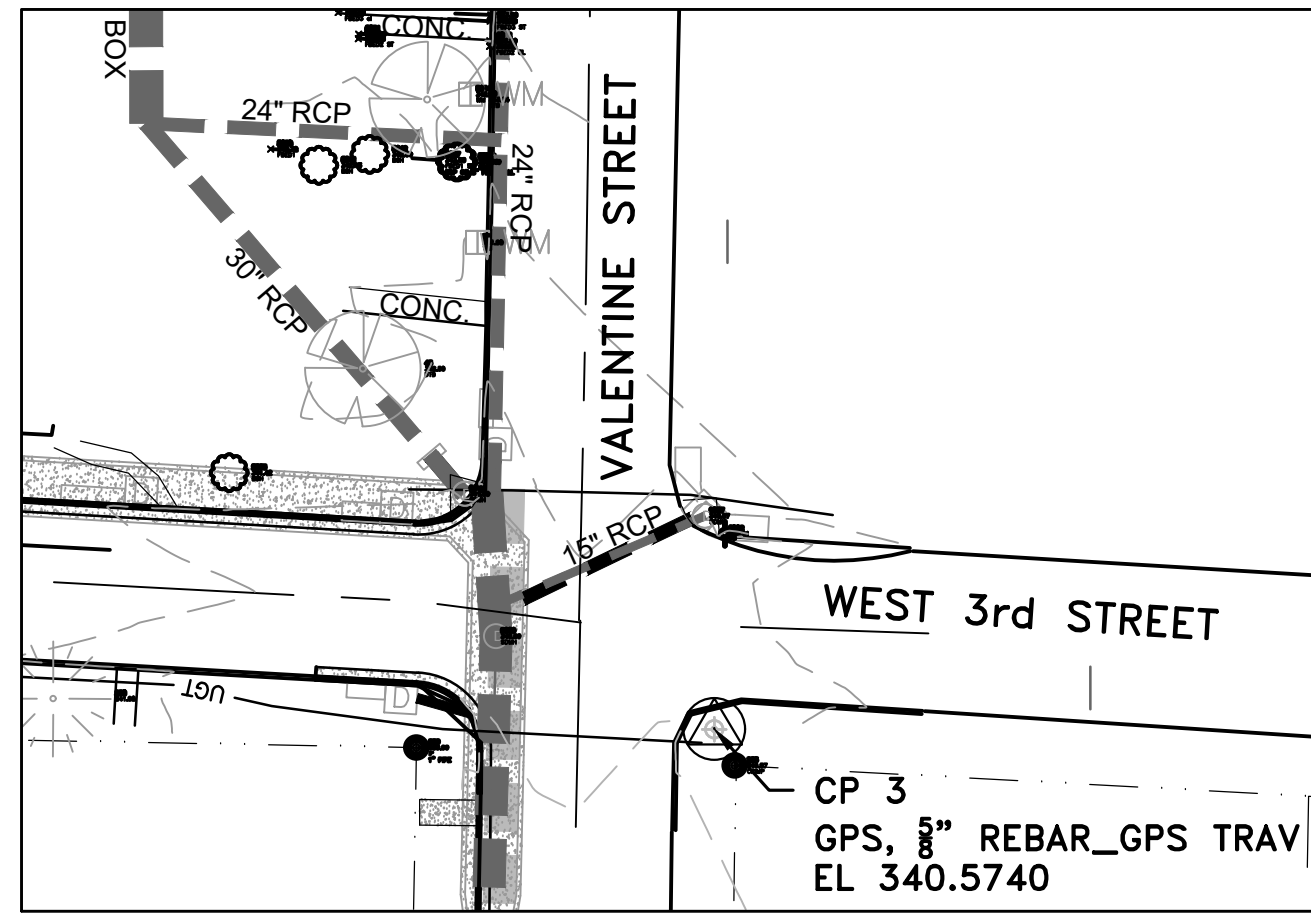
C.L. VALENTINE STREET			
STA.	TYPE	NORTHING	EASTING
50+00.00	BP	151465.2824	1218216.9646
52+00.00	PI	151265.3099	1218213.6510
53+50.00	EP	151115.3605	1218209.7534

C.L. VALMAR STREET			
STA.	TYPE	NORTHING	EASTING
100+00.00	BP	151344.5432	1218551.5530
104+00.00	EP	150944.6272	1218543.3566

C.L. BOX CULVERT COORDINATES			
STA.	TYPE	NORTHING	EASTING
200+00.00	BP	151374.6247	1218119.6053
201+67.45	PI	151266.6012	1218247.5511
202+54.43	PI	151260.2702	1218334.2994
202+98.87	PC	151226.6437	1218363.3515
203+10.51	PI	151217.8367	1218370.9604
203+21.86	PT	151206.8237	1218374.7246
204+18.28	PI	151115.5824	1218405.9109
204+48.52	PI	151087.6290	1218417.4291
206+35.51	PI	151015.8665	1218590.1027
207+43.78	PC	151007.8905	1218698.0918
207+52.80	PI	151007.2271	1218707.0736
207+58.44	PT	150998.2251	1218707.3505
207+84.69	PI	150972.0034	1218708.1571
208+41.59	EP	150915.1066	1218707.3197

C.L. WEST 4TH STREET			
STA.	TYPE	NORTHING	EASTING
10+00.00	BP	151354.0364	1218099.2957
10+97.51	PC	151291.1327	1218173.8003
11+30.00	PI	151270.1717	1218198.6270
11+60.34	PT	151267.8067	1218231.0328
13+55.85	PI	151253.5761	1218426.0223
17+29.85	EP	151231.9544	1218799.3967

C.L. WEST CAPITOL AVENUE			
STA.	TYPE	NORTHING	EASTING
400+00.00	BP	150891.9374	1218660.3758
402+50.00	EP	150877.0372	1218909.9314

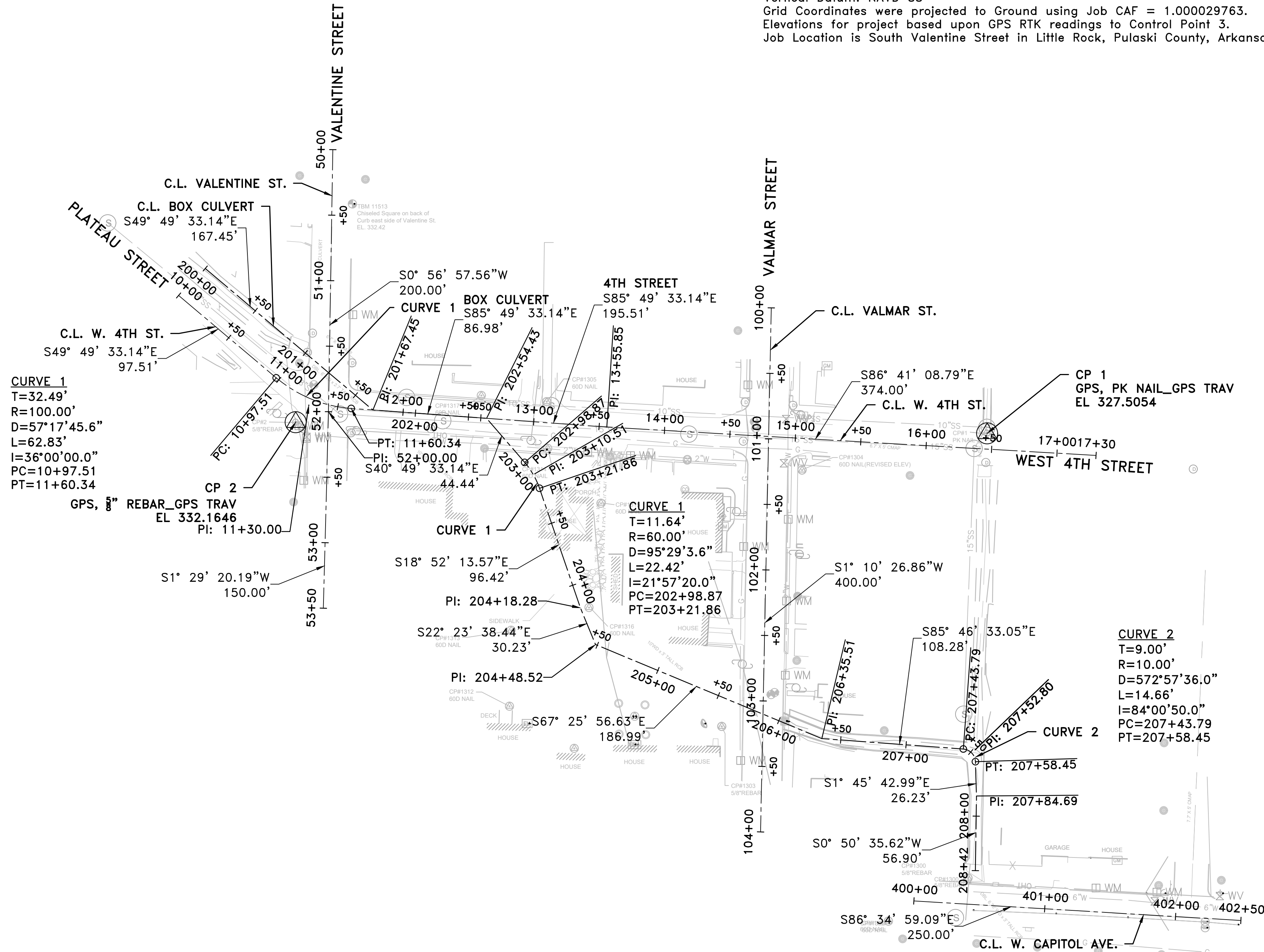


SURVEY BENCHMARKS				
NO.	DESCRIPTION	NORTHING	EASTING	ELEV.
1	GPS, PK NAIL_GPS TRAV	151248.7634	1218716.2452	327.5054
2	GPS, 5/8" REBAR_GPS TRAV	151257.2462	1218188.5595	332.1646
3	GPS, 5/8" REBAR_GPS TRAV	151748.0133	1218244.0700	340.5740

Basis of Bearings:  
 All Coordinates are Ground.  
 For Stakeout use CF = 1.00000000  
 Job CAF = 1.000029763  
 Job CAF was established at Control Point 2.  
 Convergence Angle at Control Point 2 is 00°10'56.20651" Left.  
 To convert back to GRID multiply by Job CAF = 1.000029763  
 Point 2 Latitude = N 34°44'54.56684"  
 Point 2 Longitude = W 092°18'47.69804"  
 Original Grid Coordinates based on Arkansas Grid North Zone 0301  
 As determined by GPS RTK readings on February 21, 2019 based upon the PAGIS Dial-Up System.  
 Horizontal Datum: NAVD 83  
 Vertical Datum: NAVD 88  
 Grid Coordinates were projected to Ground using Job CAF = 1.000029763.  
 Elevations for project based upon GPS RTK readings to Control Point 3.  
 Job Location is South Valentine Street in Little Rock, Pulaski County, Arkansas

⊙ CONTROL POINT

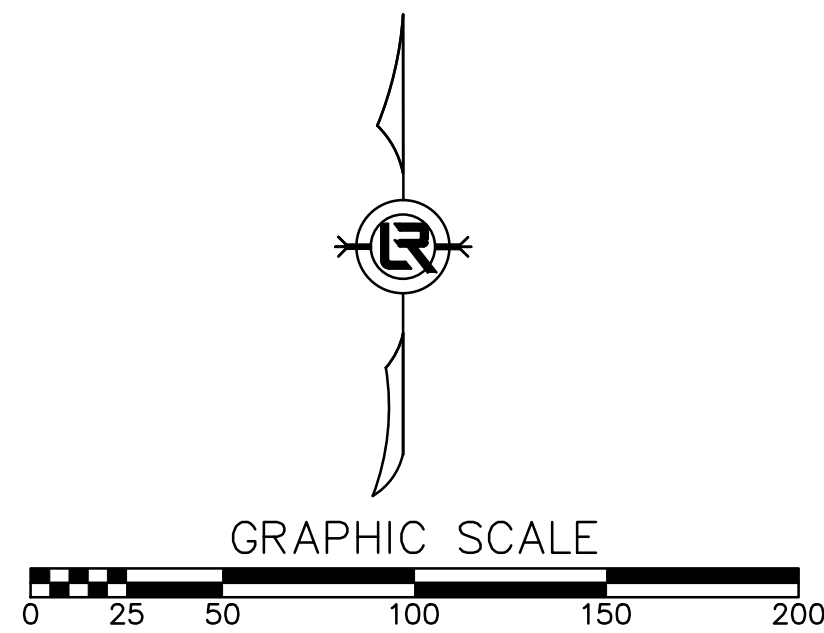
Basis of Bearing: PAGIS Virtual State Plane North reduced to g point No. 2, Geoid 12B



**CURVE 1**  
 T=32.49'  
 R=100.00'  
 D=57°17'45.6"  
 L=62.83'  
 I=36°00'00.0"  
 PC=10+97.51  
 PT=11+60.34

**CURVE 1**  
 T=11.64'  
 R=60.00'  
 D=95°29'3.6"  
 L=22.42'  
 I=21°57'20.0"  
 PC=202+98.87  
 PT=203+21.86

**CURVE 2**  
 T=9.00'  
 R=10.00'  
 D=572°57'36.0"  
 L=14.66'  
 I=84°00'50.0"  
 PC=207+43.79  
 PT=207+58.45



REVISIONS    DATE

CITY OF LITTLE ROCK, ARKANSAS  
 WEST 4TH STREET DRAINAGE  
 AND STREET IMPROVEMENTS

FIELD TIES / LAYOUT

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 CIVIL ENGINEERING  
 701 W. MARKHAM  
 LITTLE ROCK, ARKANSAS 72201

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 TCP

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 RCC

CHECKED  
 RCC

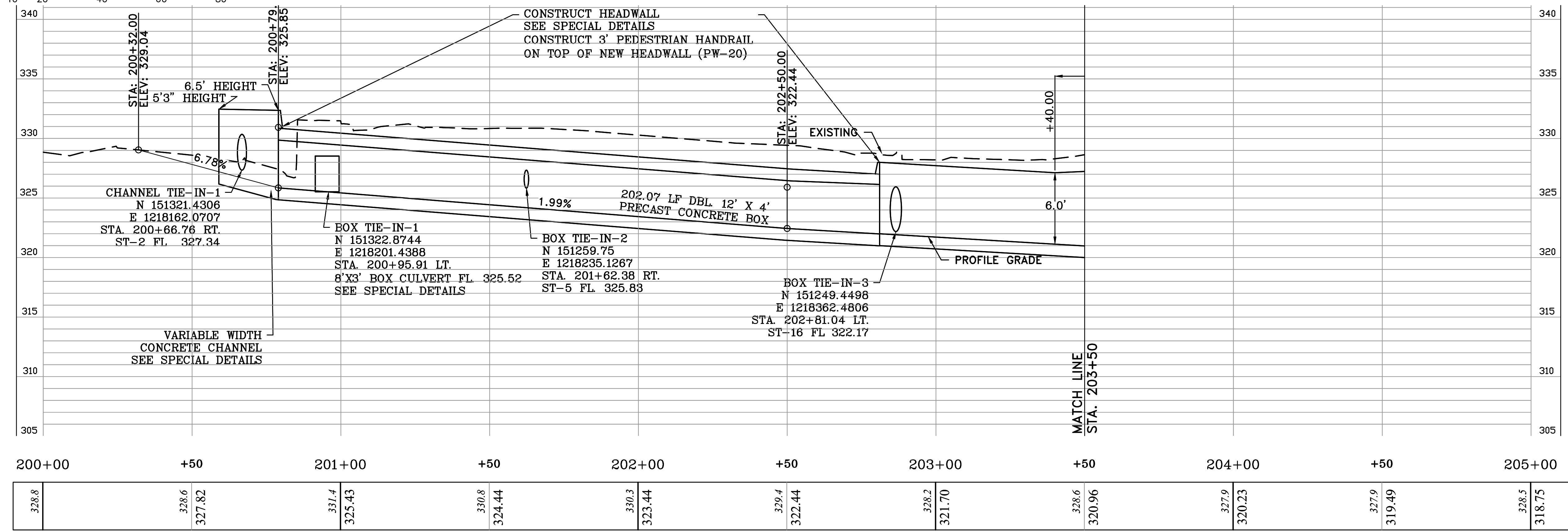
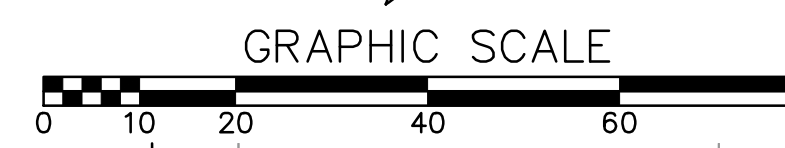
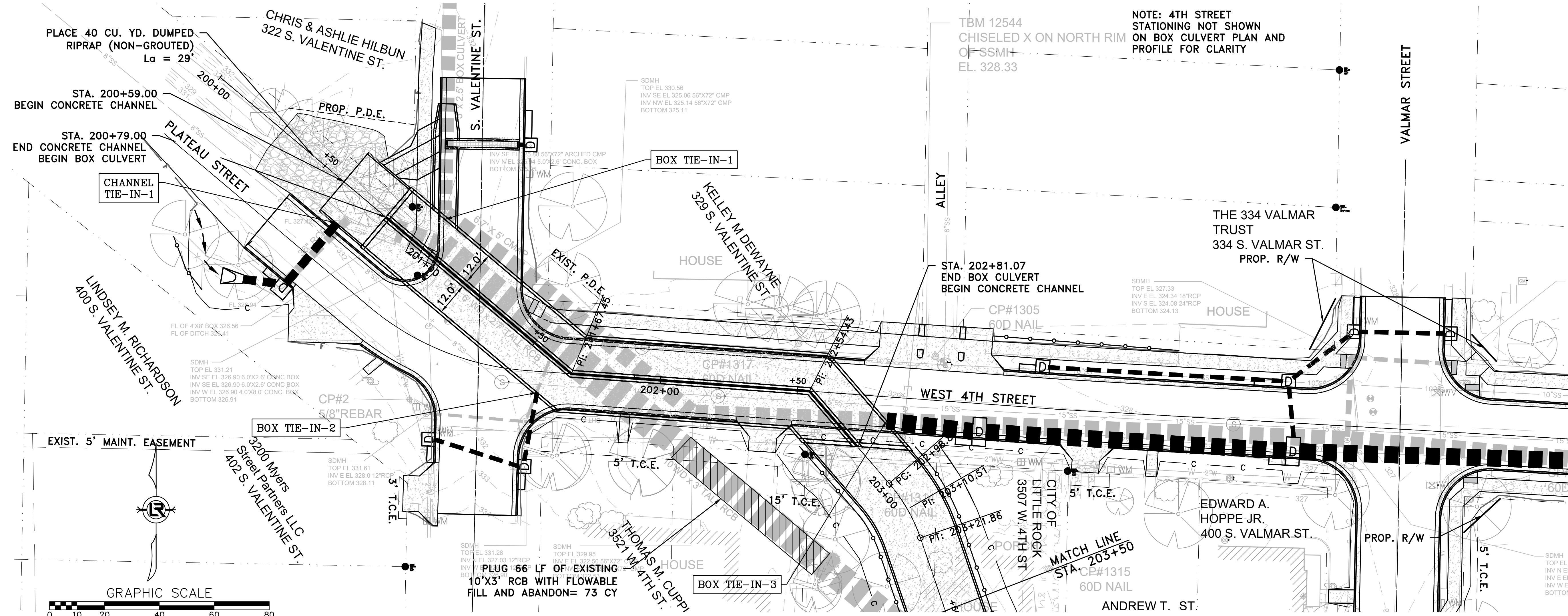
DATE  
 10-11-2024

SCALE  
 H: 1"=50'  
 V: 1"=50'

PROJECT NO.  
 03-17-DR-107

SHEET NO.  
 C15

REVISIONS	DATE



BOX CULVERT AND DRAINAGE CHANNEL

CITY OF LITTLE ROCK, ARKANSAS  
 WEST 4TH STREET DRAINAGE  
 AND STREET IMPROVEMENTS  
 BOX CULVERT AND DRAINAGE CHANNEL 1  
 PLAN & PROFILE - STA 200+00 TO STA 203+50

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 701 W. MARKHAM  
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 DESIGNED  
 RCC  
 CHECKED  
 RCC  
 DATE  
 10-11-2024  
 SCALE  
 H: 1"=20'  
 V: 1"=5'  
 PROJECT NO.  
 03-17-DR-107  
 SHEET NO.  
**C16**

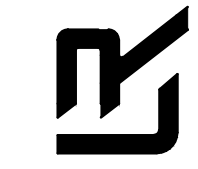


REVISIONS	DATE

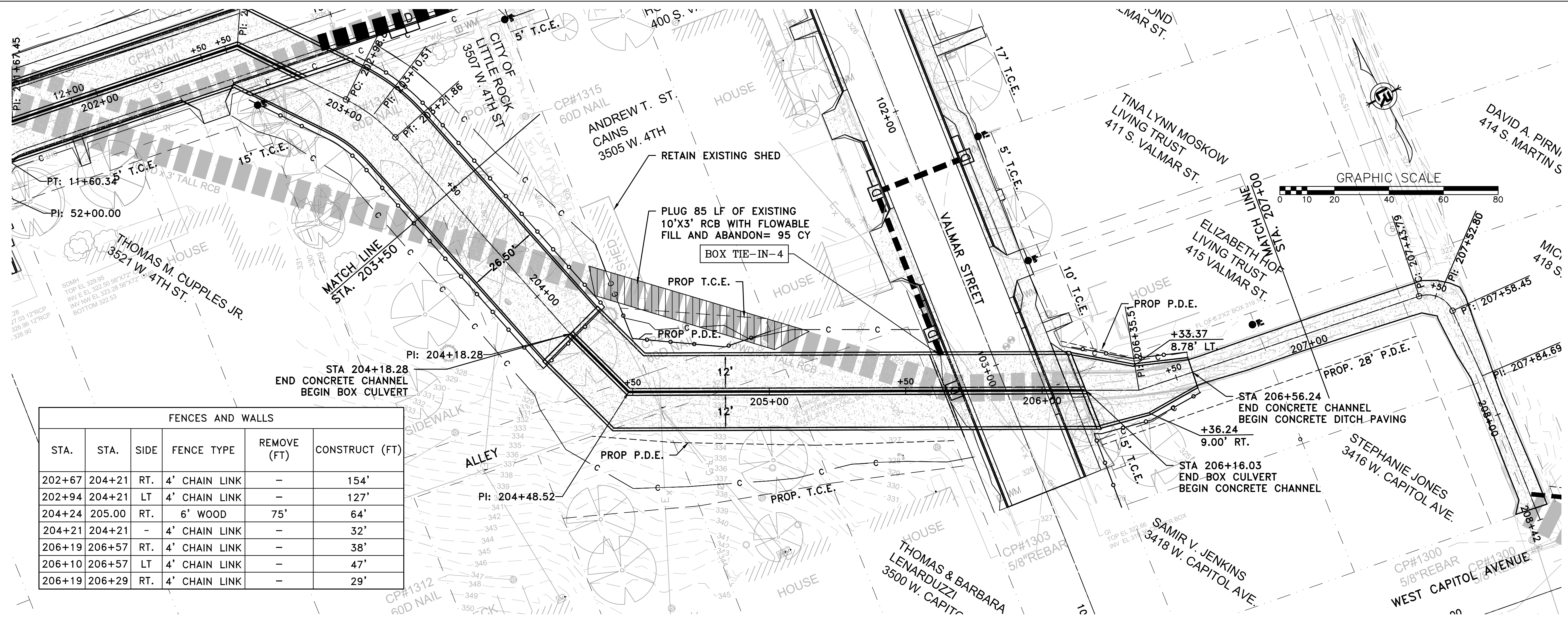
CITY OF LITTLE ROCK, ARKANSAS  
WEST 4TH STREET DRAINAGE  
AND STREET IMPROVEMENTS

BOX CULVERT AND DRAINAGE CHANNEL 2  
PLAN & PROFILE - STA 203+50 TO STA 207+00

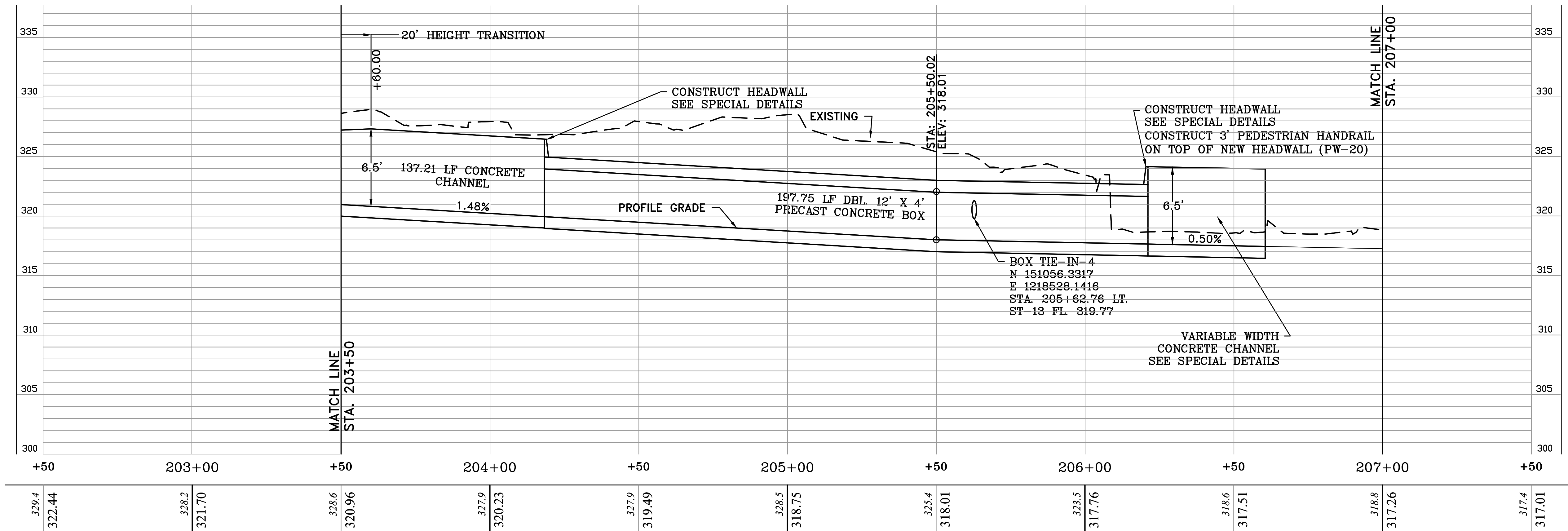
DEPARTMENT OF PUBLIC WORKS  
CIVIL ENGINEERING  
701 W. MARKHAM  
LITTLE ROCK, ARKANSAS 72201



DRAWN BY  
TCP  
DESIGNED  
RCC  
CHECKED  
RCC  
DATE  
10-11-2024  
SCALE  
H: 1"=20'  
V: 1"=5'  
PROJECT NO.  
03-17-DR-107  
SHEET NO.  
C17



FENCES AND WALLS					
STA.	STA.	SIDE	FENCE TYPE	REMOVE (FT)	CONSTRUCT (FT)
202+67	204+21	RT.	4' CHAIN LINK	-	154'
202+94	204+21	LT	4' CHAIN LINK	-	127'
204+24	205.00	RT.	6' WOOD	75'	64'
204+21	204+21	-	4' CHAIN LINK	-	32'
206+19	206+57	RT.	4' CHAIN LINK	-	38'
206+10	206+57	LT	4' CHAIN LINK	-	47'
206+19	206+29	RT.	4' CHAIN LINK	-	29'



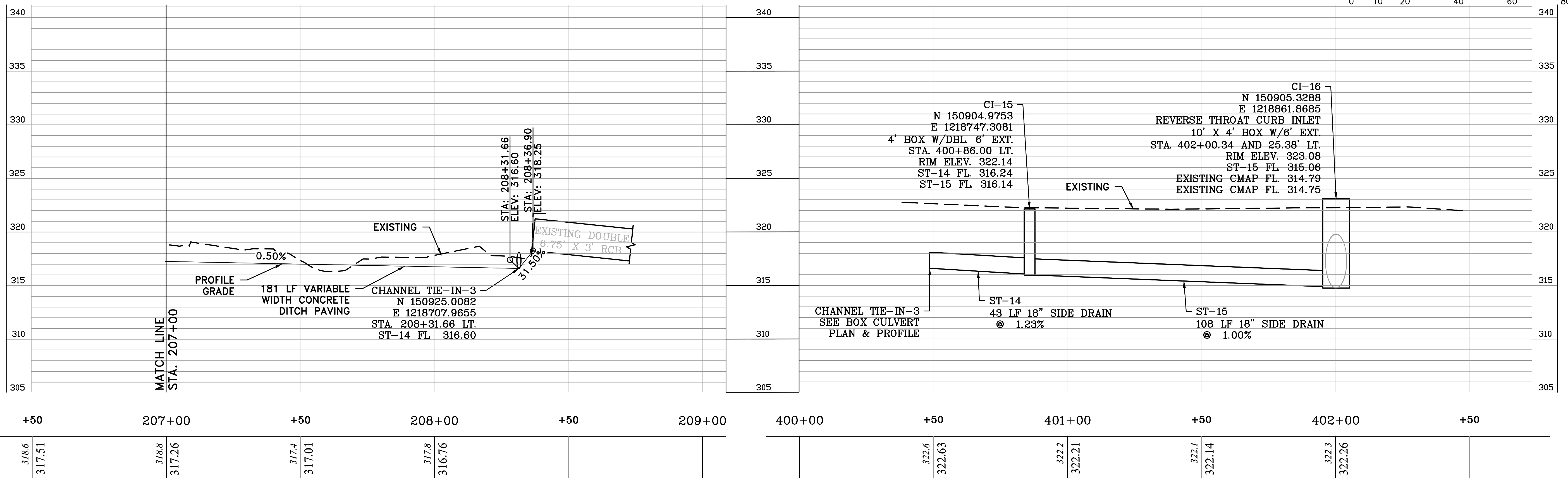
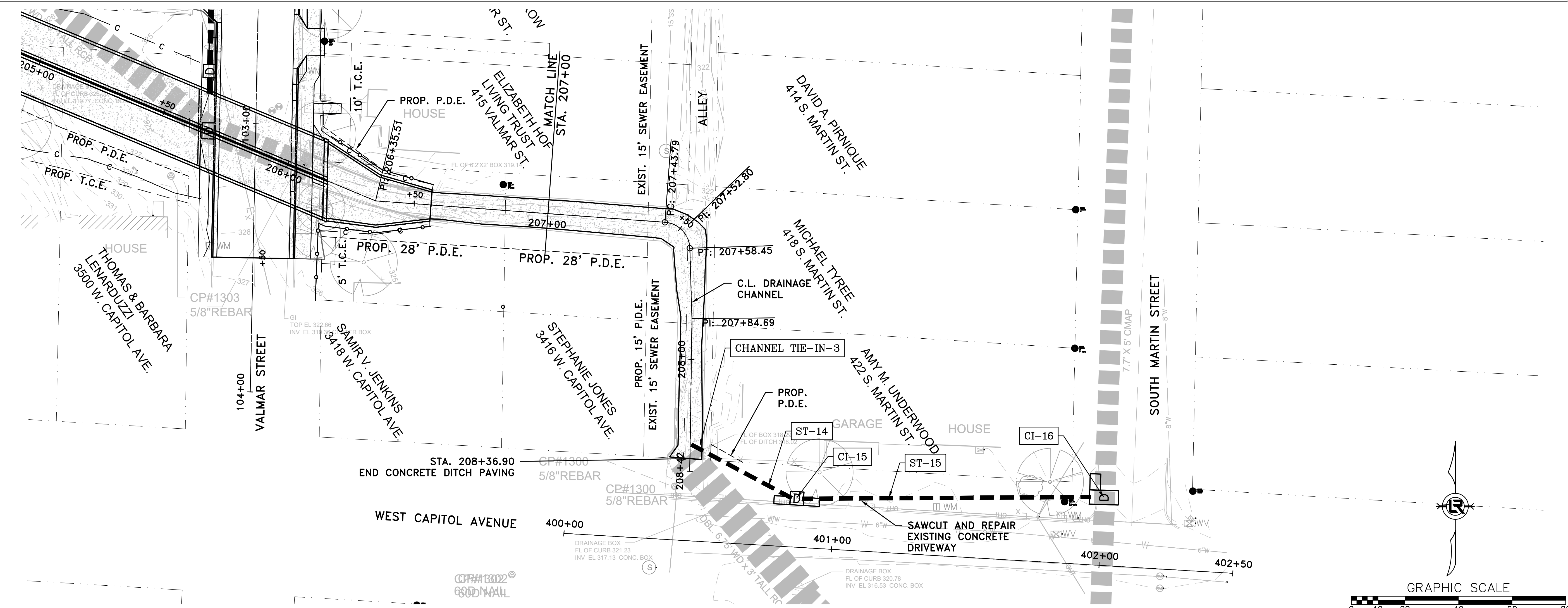
BOX CULVERT AND DRAINAGE CHANNEL

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 WEST 4TH STREET DRAINAGE  
 AND STREET IMPROVEMENTS  
 BOX CULVERT AND DRAINAGE CHANNEL 3  
 PLAN & PROFILE - STA 207+00 TO STA 208.42

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 CIVIL ENGINEERING  
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 LITTLE ROCK, ARKANSAS 72201

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 TCP  
 DESIGNED  
 RCC  
 CHECKED  
 RCC  
 DATE  
 10-11-2024  
 SCALE  
 H: 1"=20'  
 V: 1"=5'  
 PROJECT NO.  
 03-17-DR-107  
 SHEET NO.  
**C18**



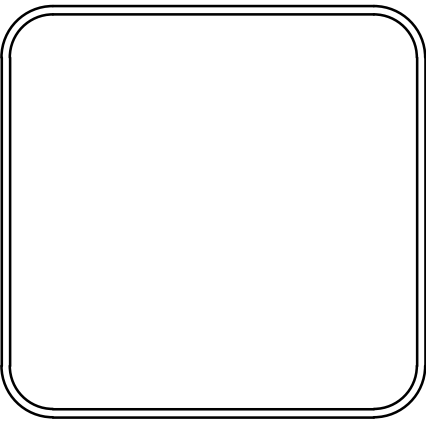
BOX CULVERT AND DRAINAGE CHANNEL

CAPITOL AVENUE

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 WEST 4TH STREET DRAINAGE  
 AND STREET IMPROVEMENTS  
 WEST 4TH STREET 1  
 PLAN & PROFILE - STA 10+00 TO STA 14+00

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

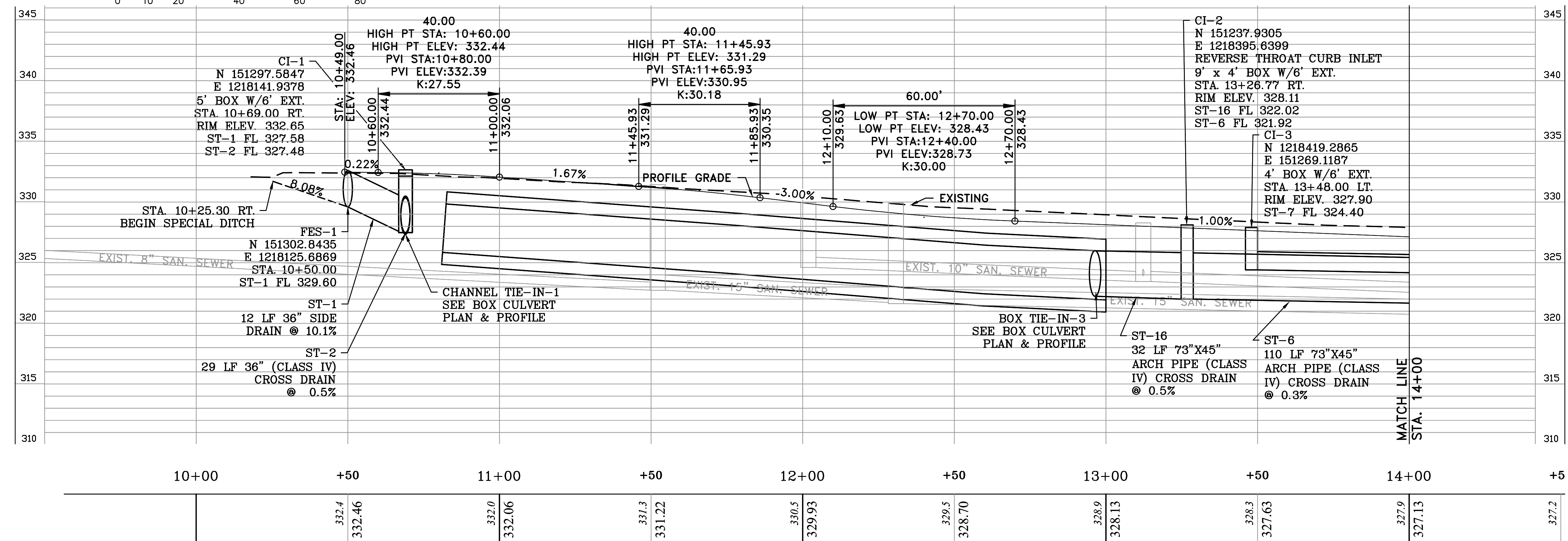
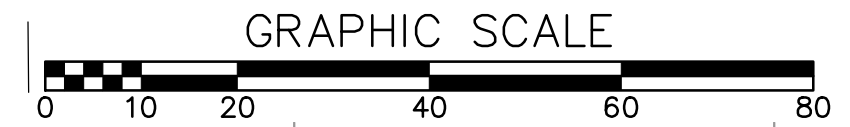
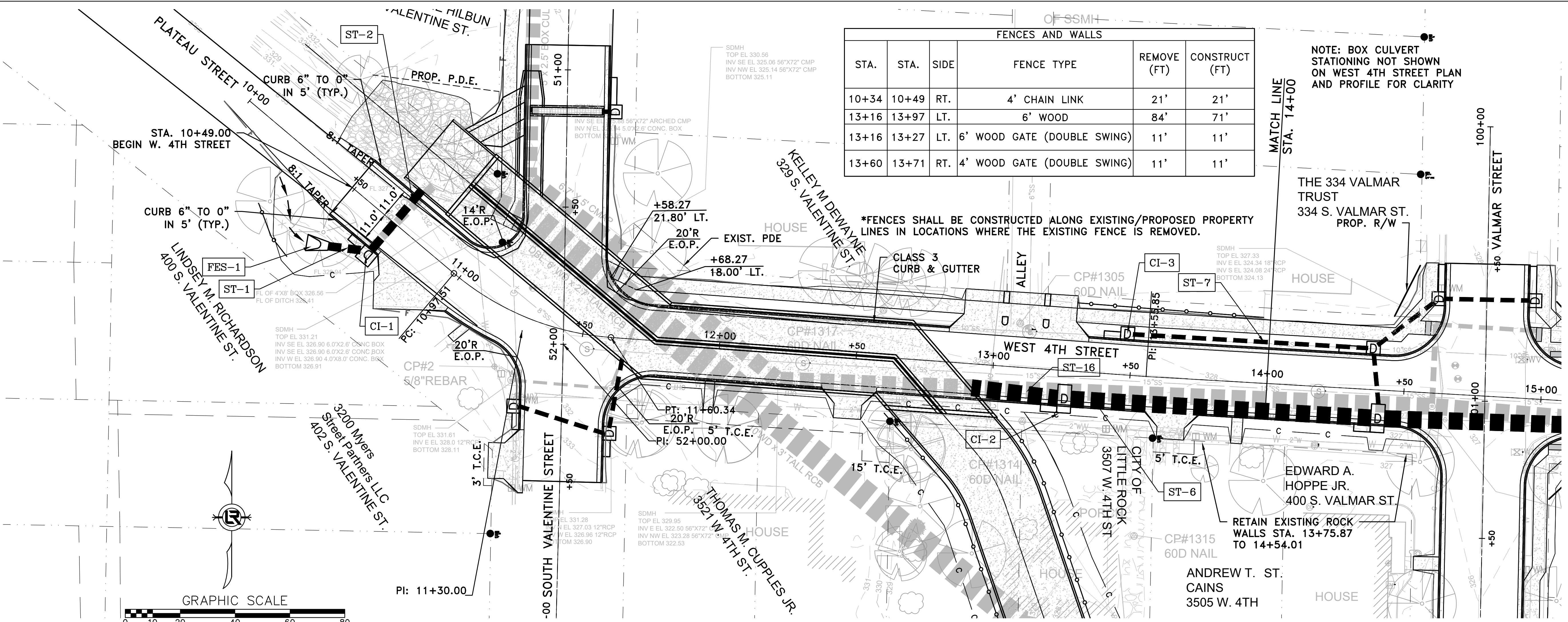


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 DESIGNED  
 RCC  
 CHECKED  
 RCC  
 DATE  
 10-11-2024  
 SCALE  
 H: 1"=20'  
 V: 1"=5'  
 PROJECT NO.  
 03-17-DR-107  
 SHEET NO.  
**C19**

FENCES AND WALLS						
STA.	STA.	SIDE	FENCE TYPE	REMOVE (FT)	CONSTRUCT (FT)	
10+34	10+49	RT.	4' CHAIN LINK	21'	21'	
13+16	13+97	LT.	6' WOOD	84'	71'	
13+16	13+27	LT.	6' WOOD GATE (DOUBLE SWING)	11'	11'	
13+60	13+71	RT.	4' WOOD GATE (DOUBLE SWING)	11'	11'	

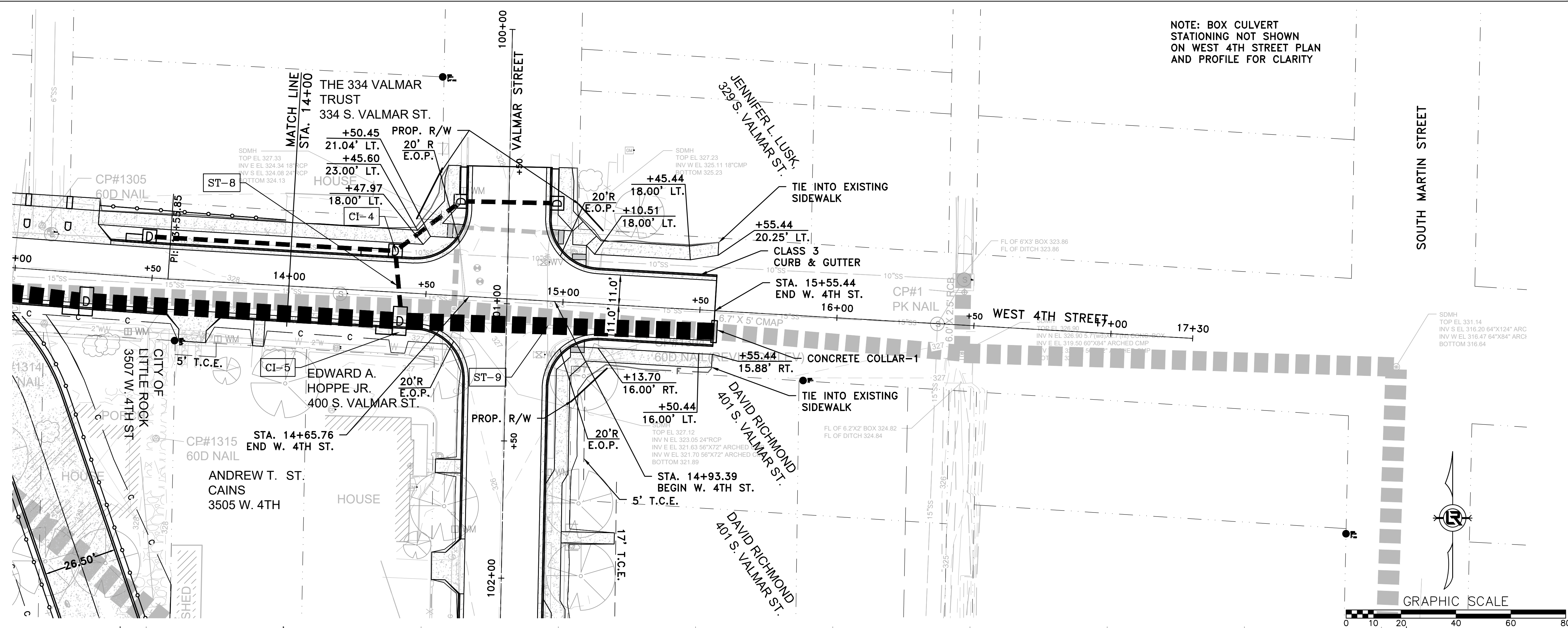
NOTE: BOX CULVERT STATIONING NOT SHOWN ON WEST 4TH STREET PLAN AND PROFILE FOR CLARITY

\*FENCES SHALL BE CONSTRUCTED ALONG EXISTING/PROPOSED PROPERTY LINES IN LOCATIONS WHERE THE EXISTING FENCE IS REMOVED.

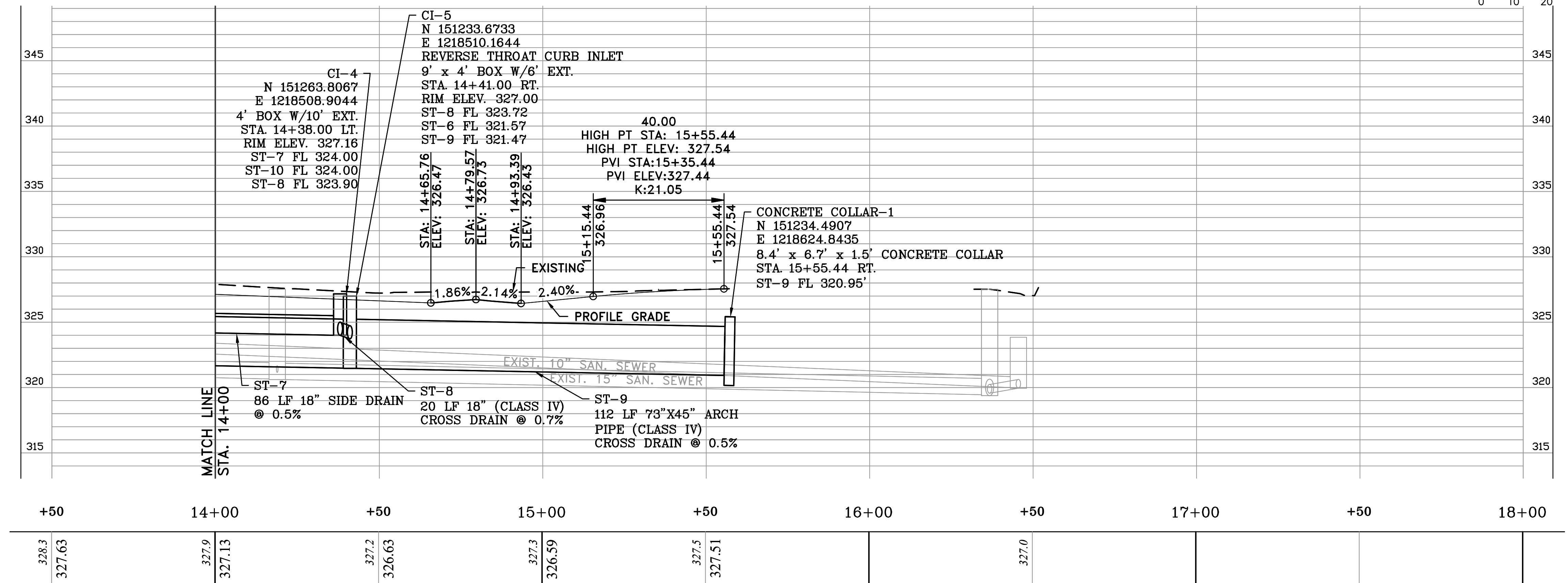
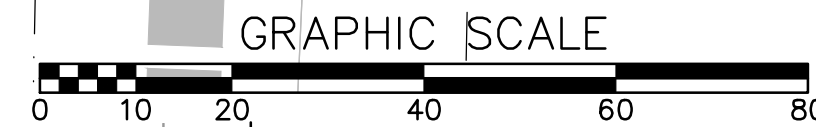


4TH STREET

REVISIONS	DATE



NOTE: BOX CULVERT STATIONING NOT SHOWN ON WEST 4TH STREET PLAN AND PROFILE FOR CLARITY



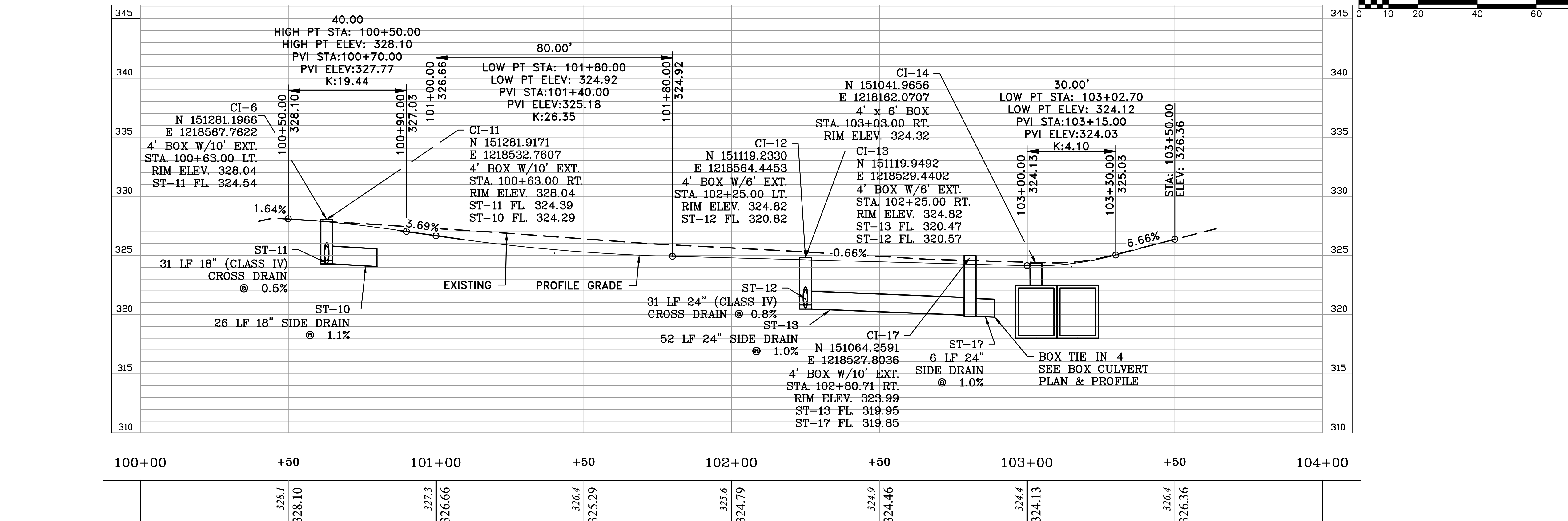
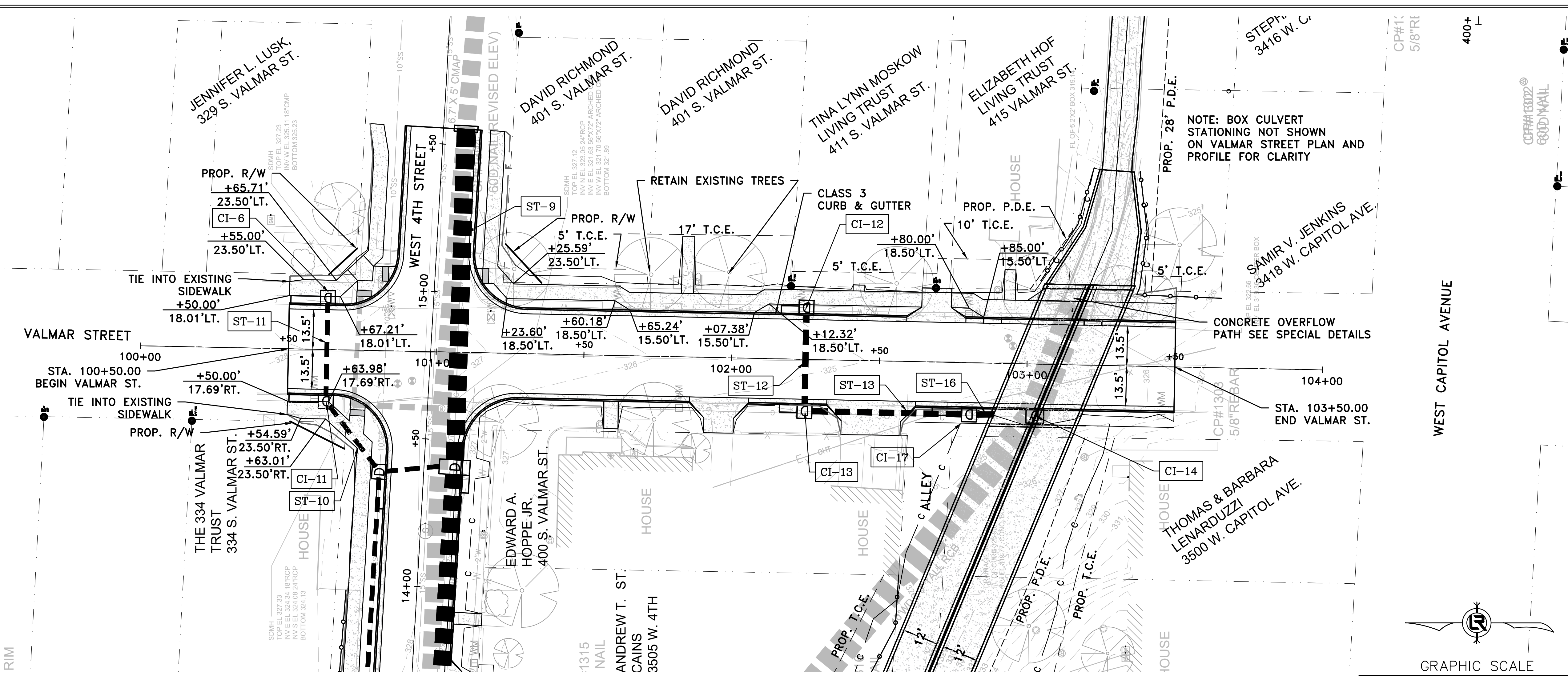
4TH STREET

CITY OF LITTLE ROCK, ARKANSAS  
 WEST 4TH STREET DRAINAGE AND STREET IMPROVEMENTS  
 PLAN & PROFILE - STA 14+00 TO STA 17+32

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 LITTLE ROCK, ARKANSAS 72201

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 DESIGNED RCC  
 CHECKED RCC  
 DATE 10-11-2024  
 SCALE H: 1"=20' V: 1"=5'  
 PROJECT NO. 03-17-DR-107  
 SHEET NO. C20



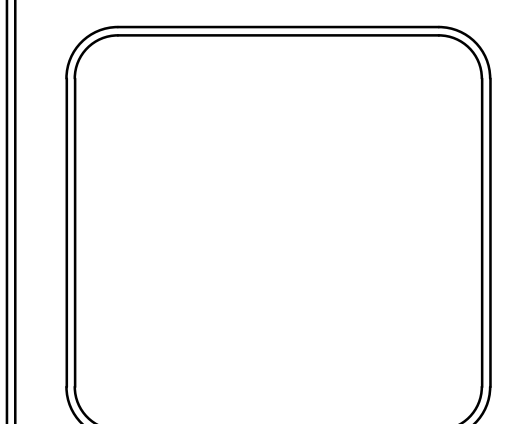


VALMAR STREET

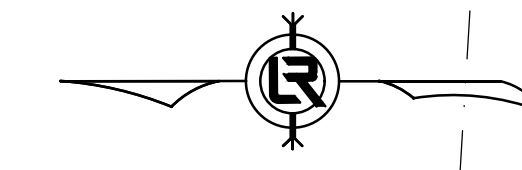
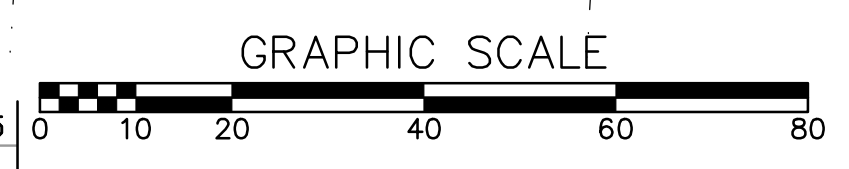
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 WEST 4TH STREET DRAINAGE  
 AND STREET IMPROVEMENTS  
 VALMAR STREET  
 PLAN & PROFILE - STA 100+00 TO STA 104+00

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 RCC  
 CHECKED  
 RCC  
 DATE  
 10-11-2024  
 SCALE  
 H: 1"=20'  
 V: 1"=5'  
 PROJECT NO.  
 03-17-DR-107  
 SHEET NO.  
**C22**



NOTE: BOX CULVERT  
 STATIONING NOT SHOWN  
 ON VALMAR STREET PLAN AND  
 PROFILE FOR CLARITY

CONCRETE OVERFLOW  
 PATH SEE SPECIAL DETAILS

CLASS 3  
 CURB & GUTTER

RETAIN EXISTING TREES

TIE INTO EXISTING  
 SIDEWALK  
 +50.00'  
 18.01'LT.

TIE INTO EXISTING  
 SIDEWALK  
 +50.00'  
 17.69'RT.

STA. 103+50.00  
 END VALMAR ST.

WEST CAPITOL AVENUE

400+ L

CP#1:  
 5/8"RI

GOOD MAIL

STEP:  
 3416 W. C.

PROP. P.D.E.  
 10' T.C.E.

PROP. T.C.E.

PROP. P.D.E.

PROP. T.C.E.

PROP. P.D.E.

PROP. T.C.E.

PROP. P.D.E.

PROP. T.C.E.

PROP. P.D.E.

PROP. T.C.E.

PROP. P.D.E.

PROP. T.C.E.

PROP. P.D.E.

PROP. T.C.E.

PROP. P.D.E.

PROP. T.C.E.

PROP. P.D.E.

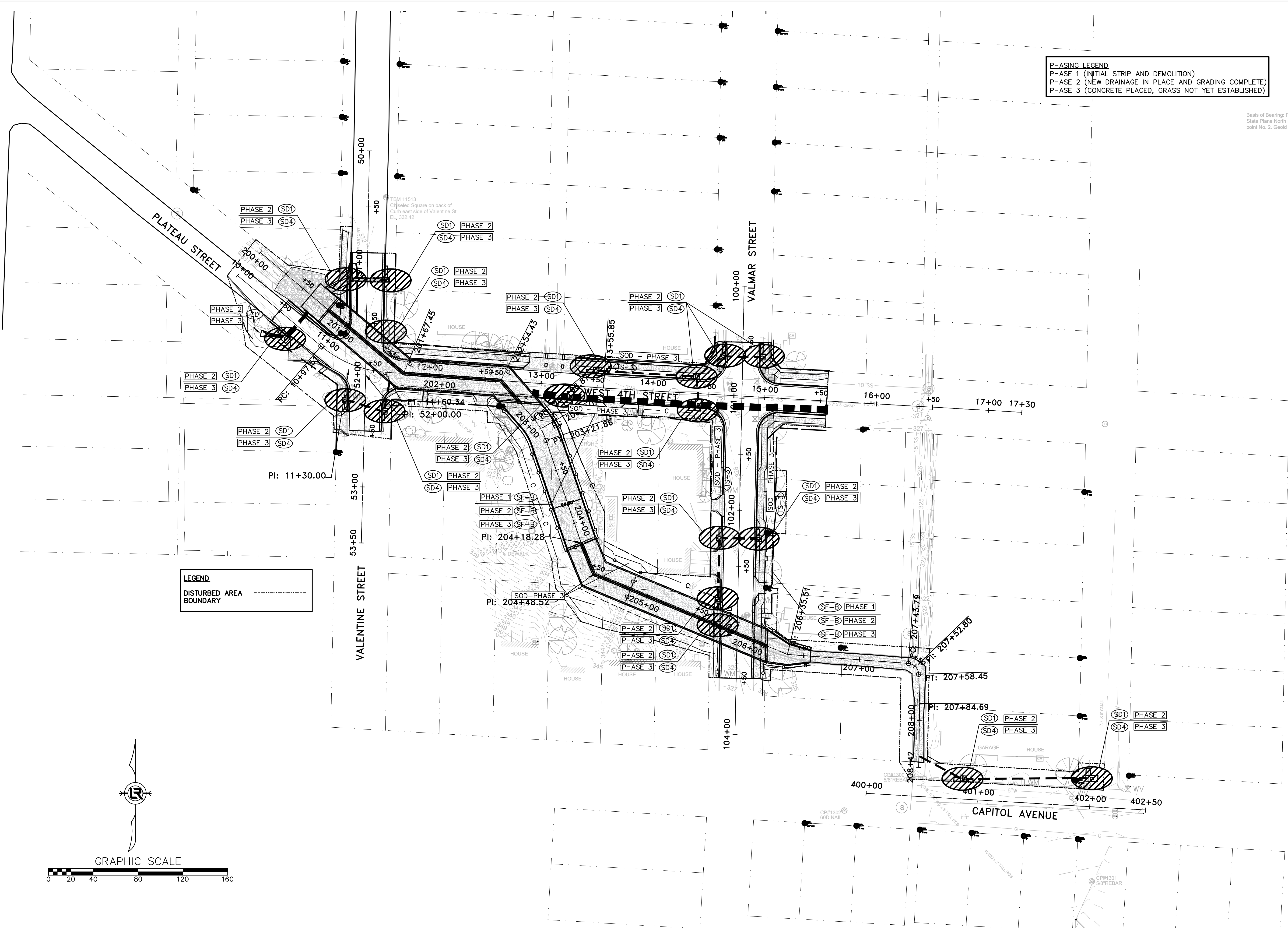
PROP. T.C.E.

PROP. P.D.E.

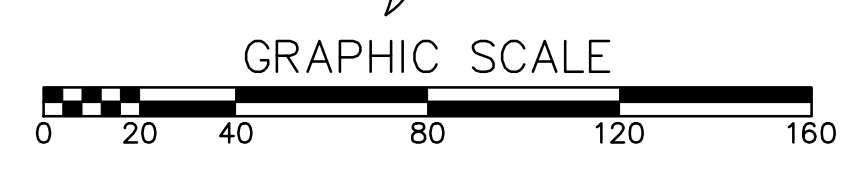
REVISIONS	DATE

**PHASING LEGEND**  
 PHASE 1 (INITIAL STRIP AND DEMOLITION)  
 PHASE 2 (NEW DRAINAGE IN PLACE AND GRADING COMPLETE)  
 PHASE 3 (CONCRETE PLACED, GRASS NOT YET ESTABLISHED)

Basis of Bearing: PAGIS Virt  
 State Plane North reduced to  
 point No. 2, Geoid 12B

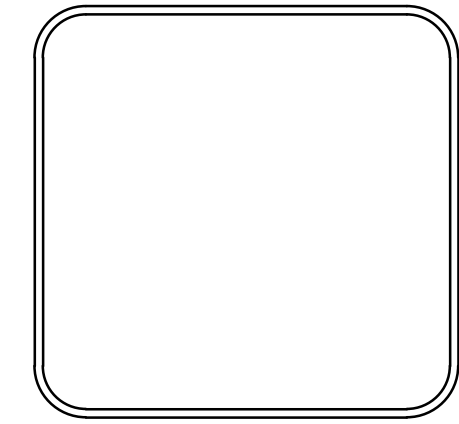


**LEGEND**  
 DISTURBED AREA  
 BOUNDARY



**CITY OF LITTLE ROCK, ARKANSAS**  
**WEST 4TH STREET DRAINAGE**  
**AND STREET IMPROVEMENTS**  
 EROSION CONTROL

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



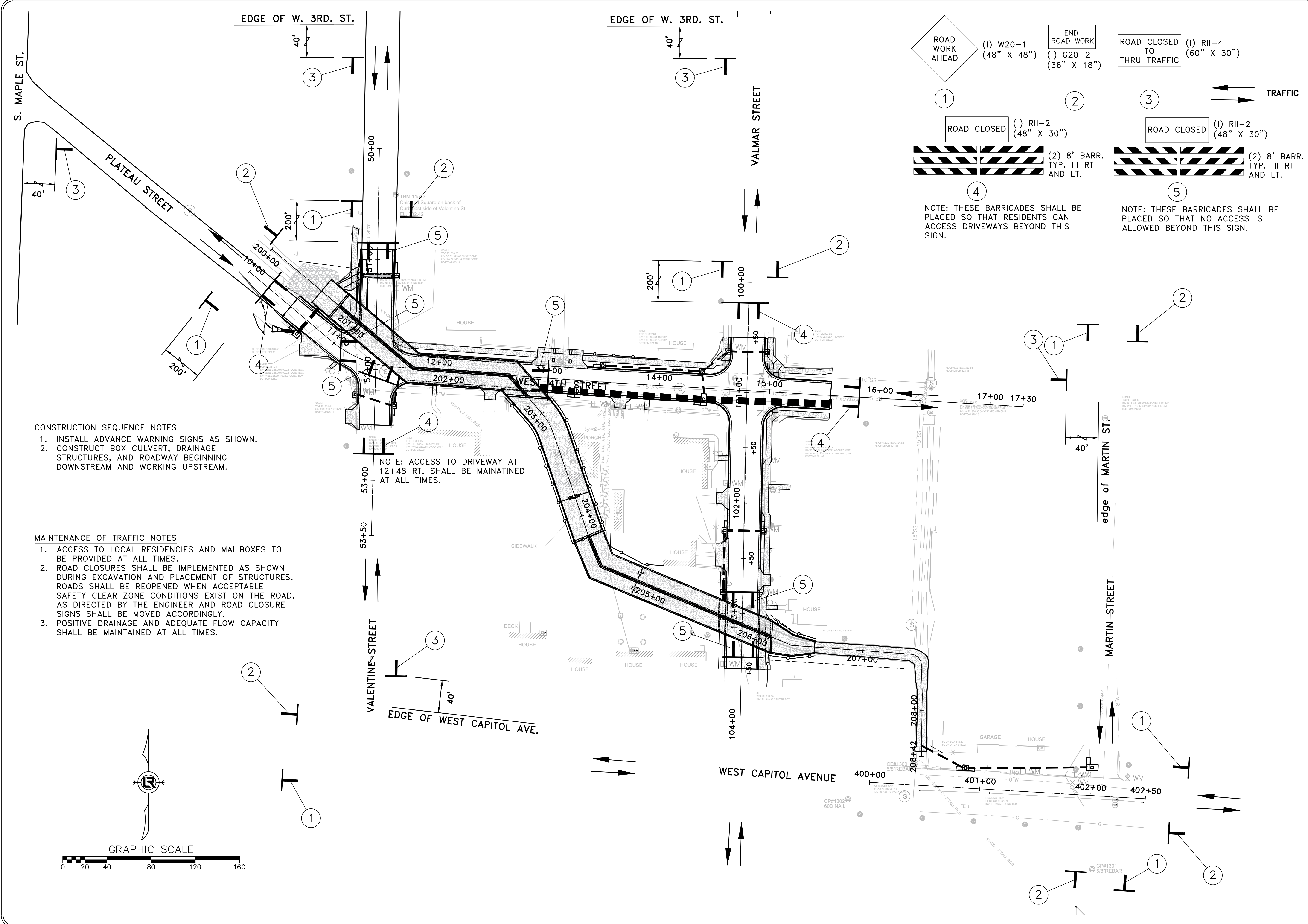
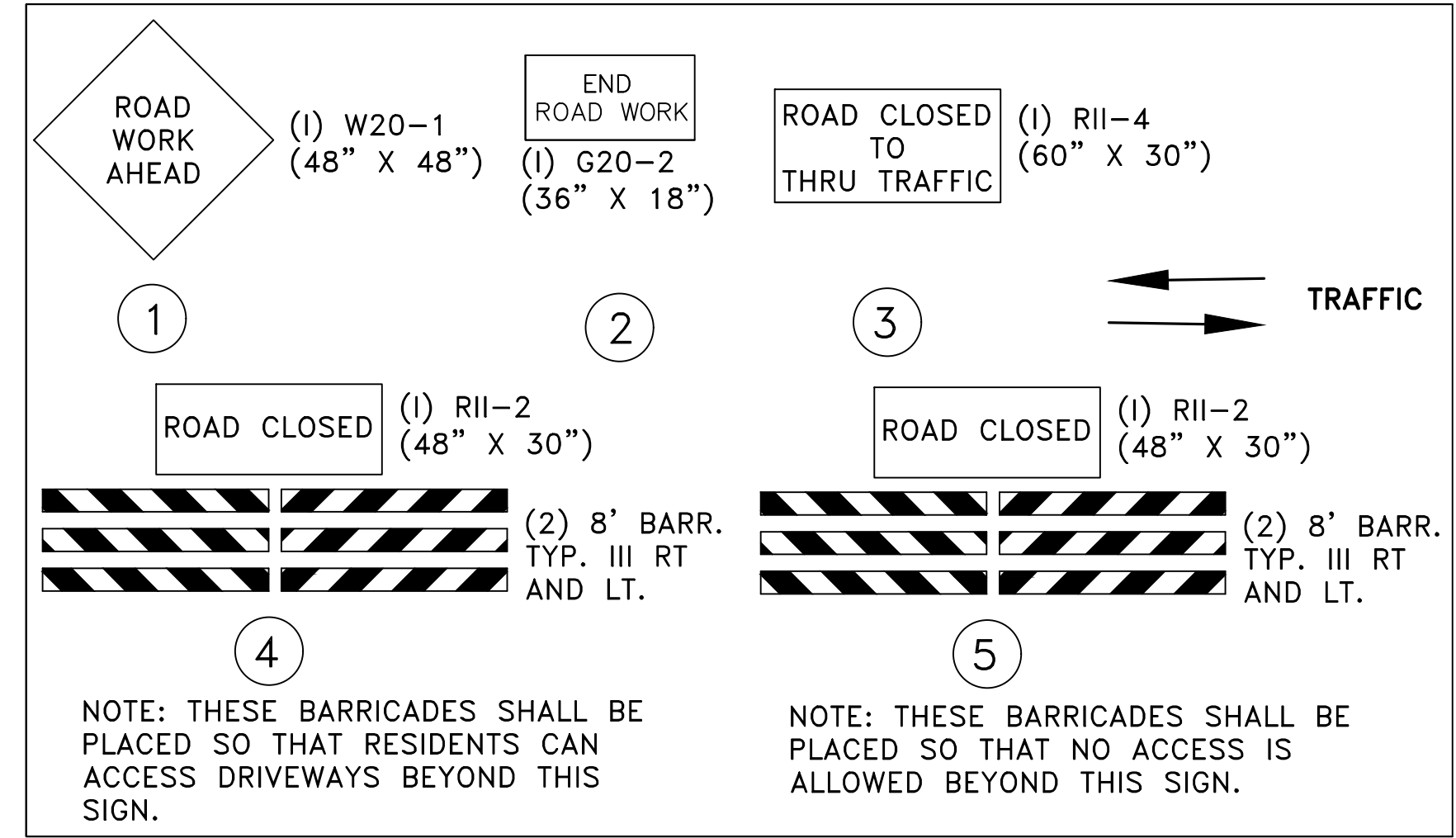
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 TCP  
**DESIGNED**  
 RCC  
**CHECKED**  
 RCC  
**DATE**  
 10-11-2024  
**SCALE**  
 H: 1"=40'  
 V: 1"=40'  
**PROJECT NO.**  
 03-17-DR-107  
**SHEET NO.**  
 C23

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 WEST 4TH STREET DRAINAGE  
 AND STREET IMPROVEMENTS  
 MAINTENANCE OF TRAFFIC

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

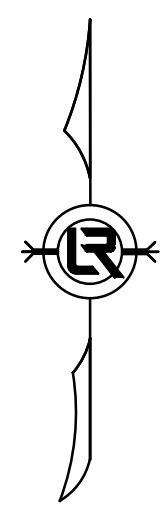
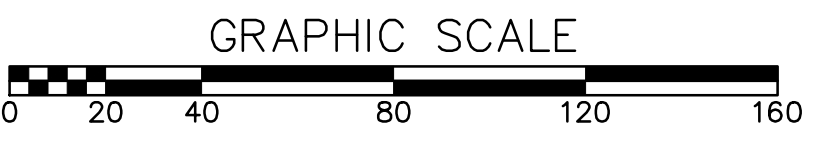
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 TCP  
 DESIGNED  
 RCC  
 CHECKED  
 RCC  
 DATE  
 10-11-2024  
 SCALE  
 H: 1"=40'  
 V: 1"=40'  
 PROJECT NO.  
 03-17-DR-107  
 SHEET NO.  
 C24



- CONSTRUCTION SEQUENCE NOTES**
1. INSTALL ADVANCE WARNING SIGNS AS SHOWN.
  2. CONSTRUCT BOX CULVERT, DRAINAGE STRUCTURES, AND ROADWAY BEGINNING DOWNSTREAM AND WORKING UPSTREAM.

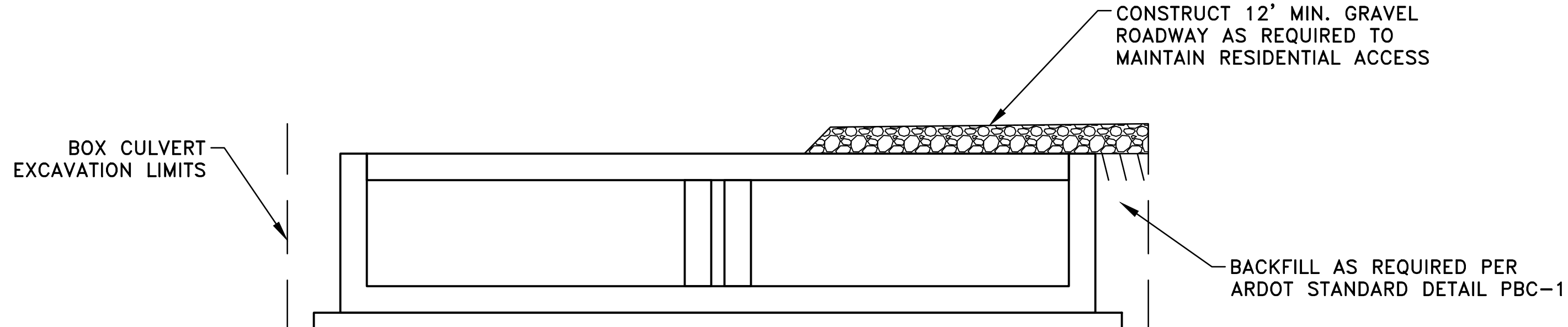
- MAINTENANCE OF TRAFFIC NOTES**
1. ACCESS TO LOCAL RESIDENCIES AND MAILBOXES TO BE PROVIDED AT ALL TIMES.
  2. ROAD CLOSURES SHALL BE IMPLEMENTED AS SHOWN DURING EXCAVATION AND PLACEMENT OF STRUCTURES. ROADS SHALL BE REOPENED WHEN ACCEPTABLE SAFETY CLEAR ZONE CONDITIONS EXIST ON THE ROAD, AS DIRECTED BY THE ENGINEER AND ROAD CLOSURE SIGNS SHALL BE MOVED ACCORDINGLY.
  3. POSITIVE DRAINAGE AND ADEQUATE FLOW CAPACITY SHALL BE MAINTAINED AT ALL TIMES.

NOTE: ACCESS TO DRIVEWAY AT 12+48 RT. SHALL BE MAINTAINED AT ALL TIMES.



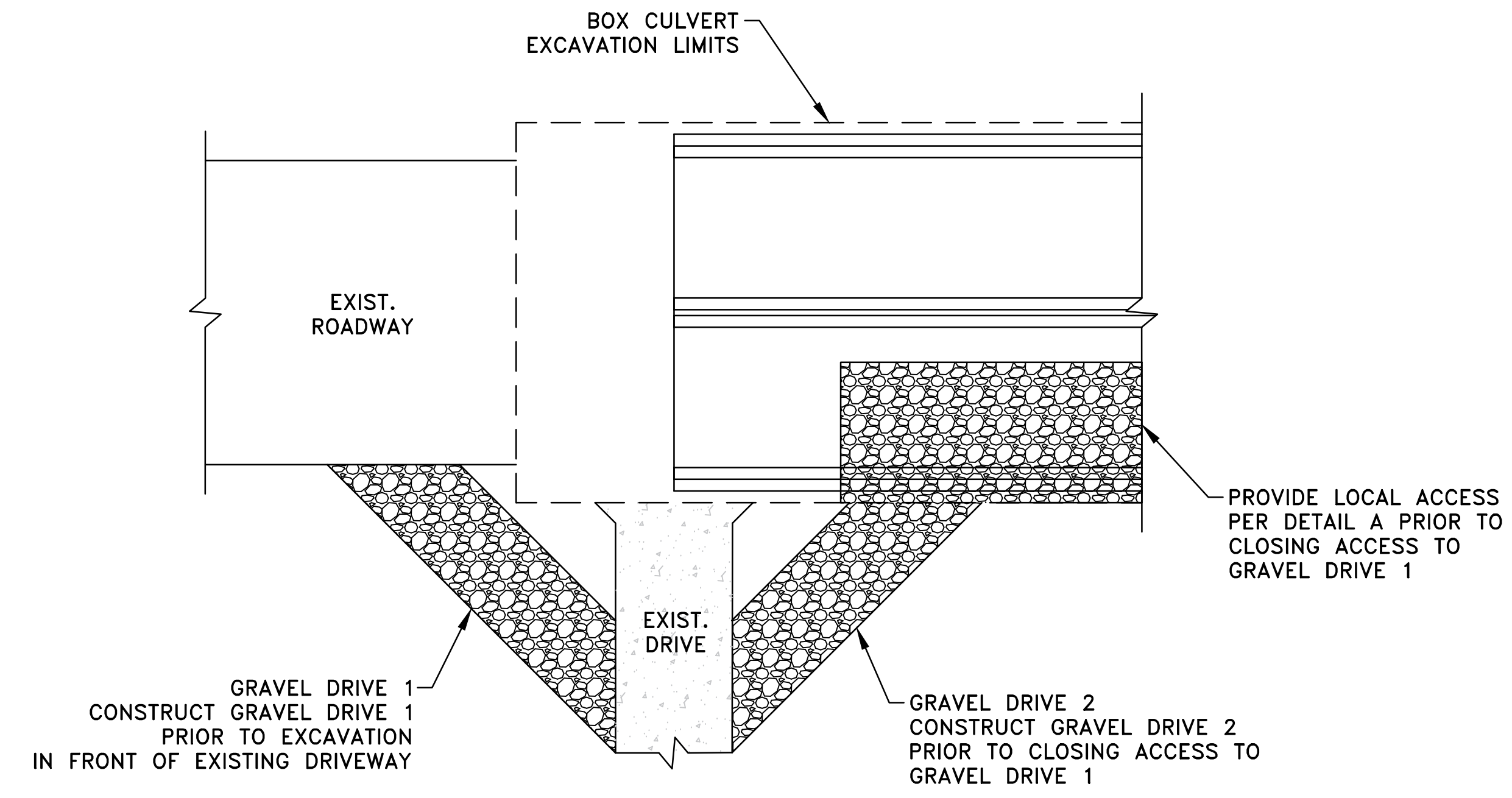


REVISIONS	DATE



**DETAIL A**

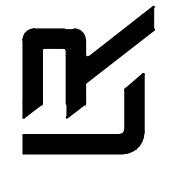
NOTE:  
 AGGREGATE USED FOR MAINTENANCE FOR TRAFFIC AND NOT USED WITHIN THE PERMANENT ROADWAY BASE OR BOX CULVERT SHALL BE CONSIDERED SUBSIDIARY TO THE LUMP SUM PRICE BID FOR MAINTENANCE OF TRAFFIC.



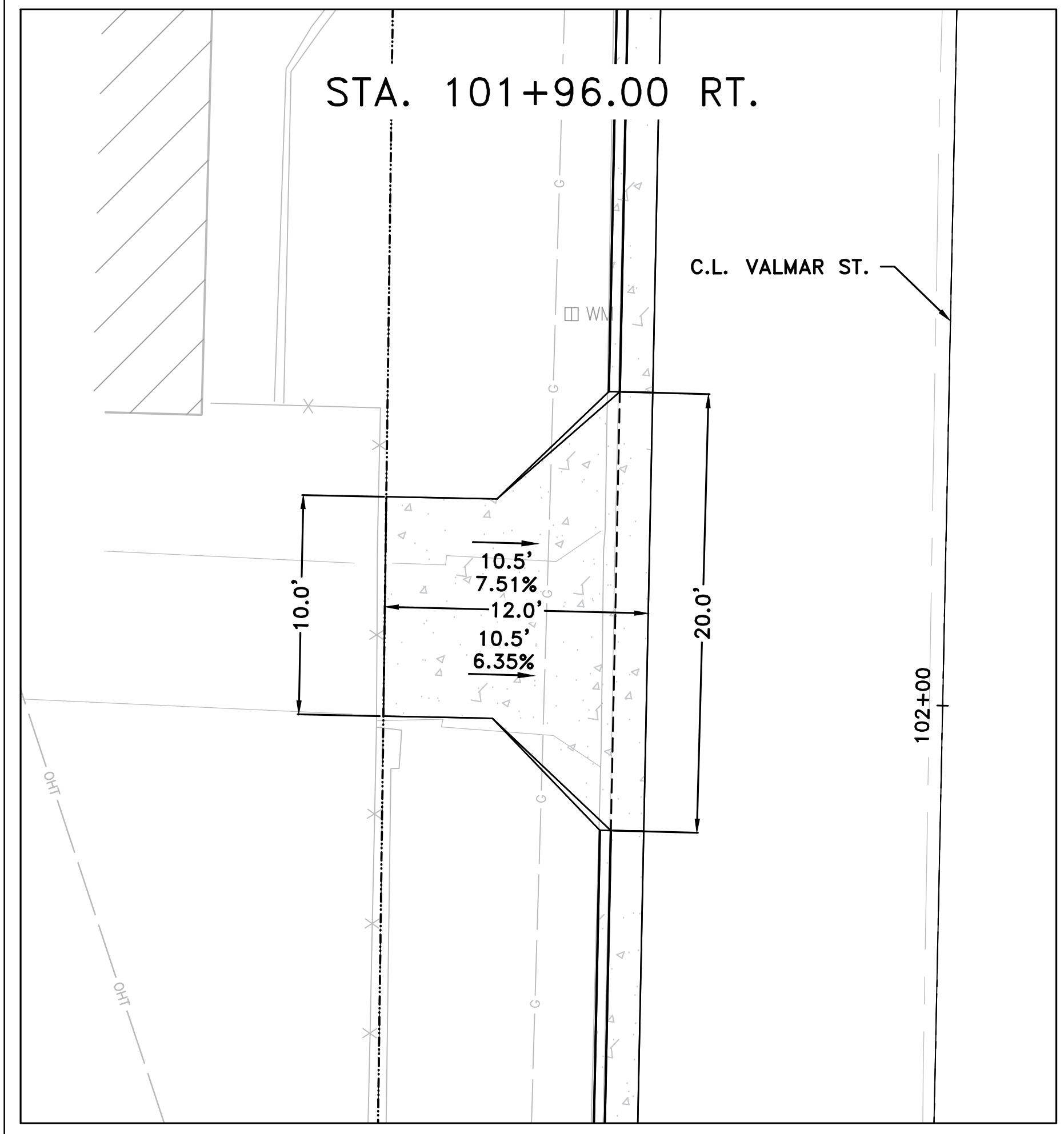
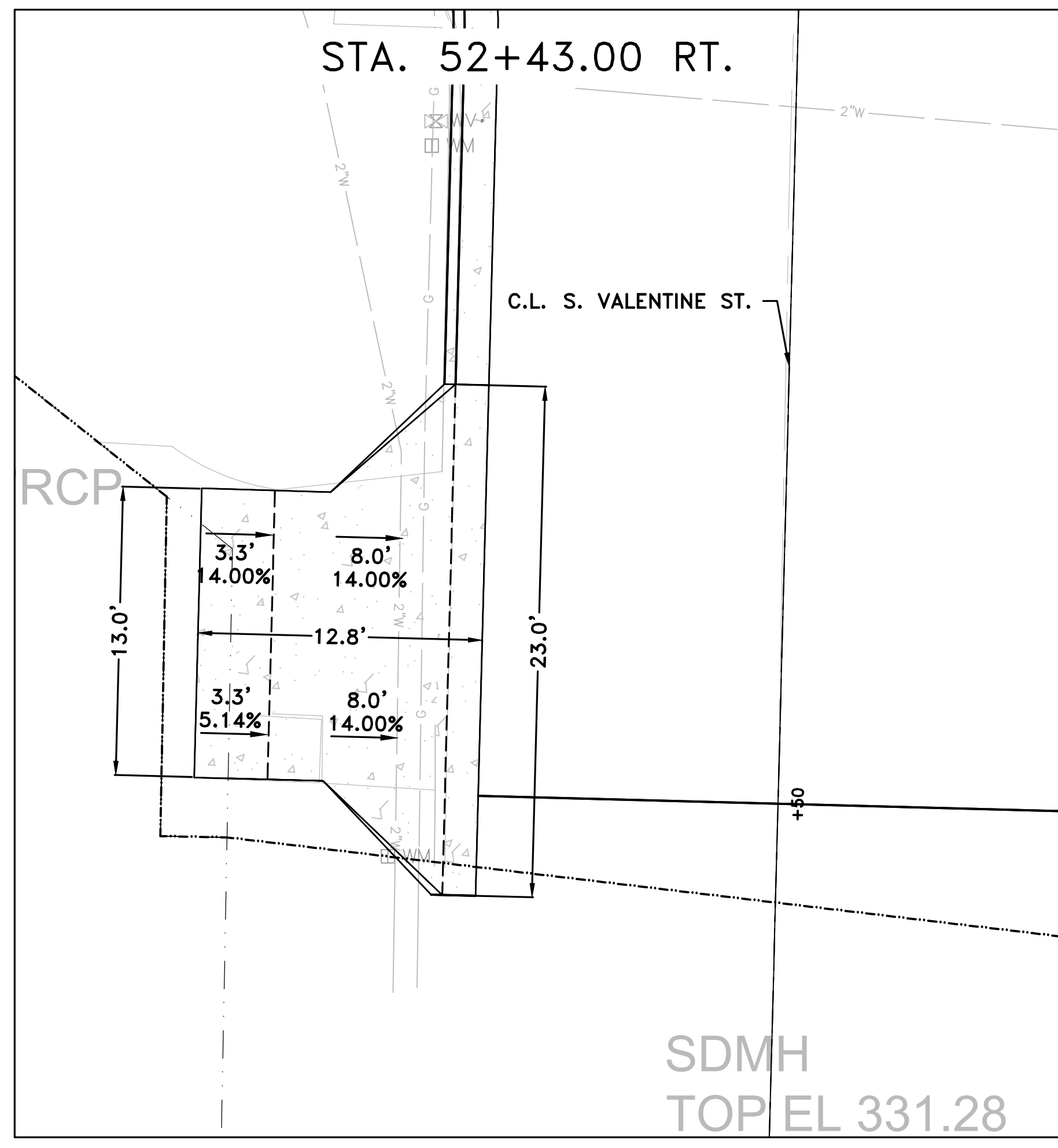
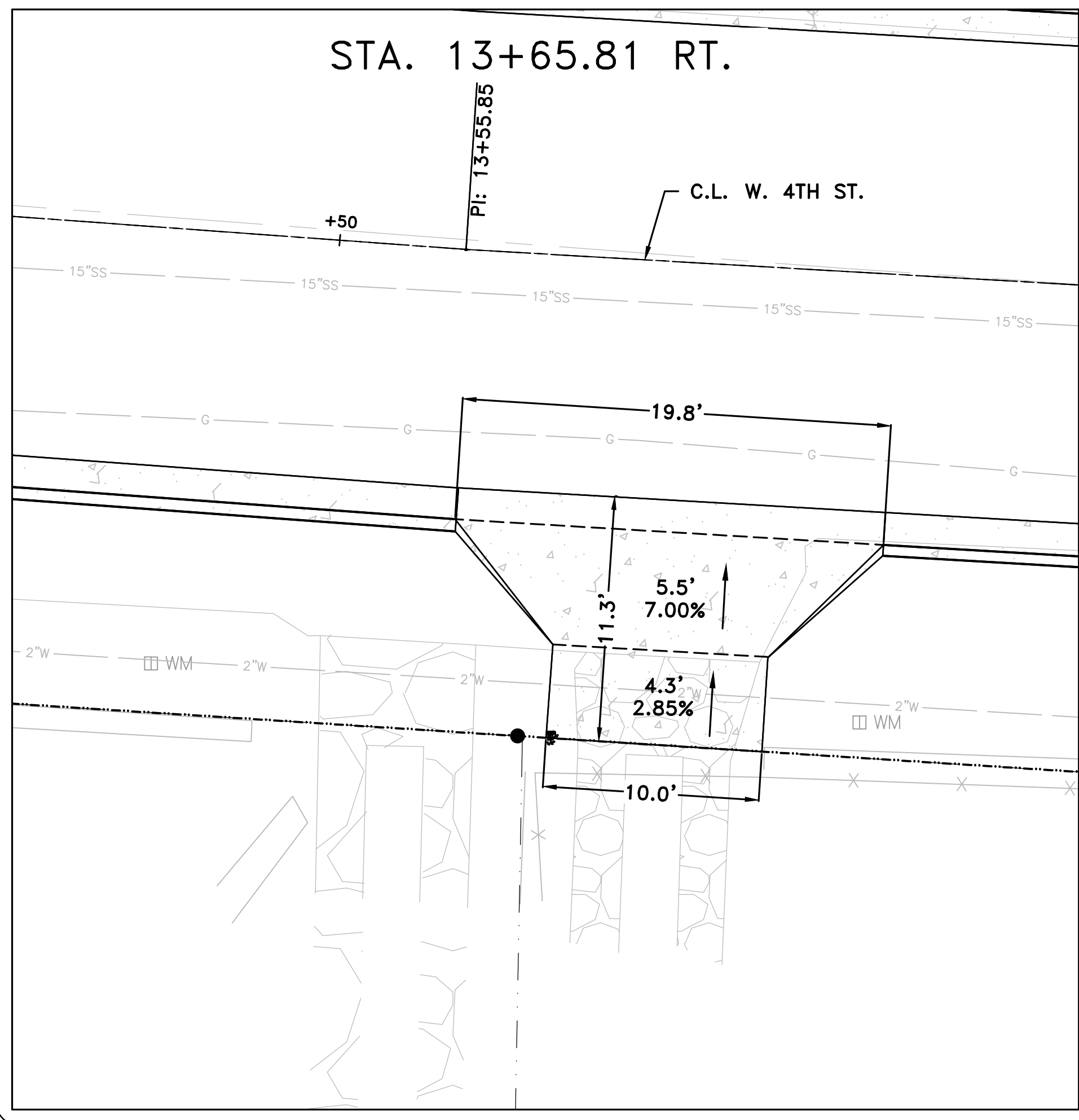
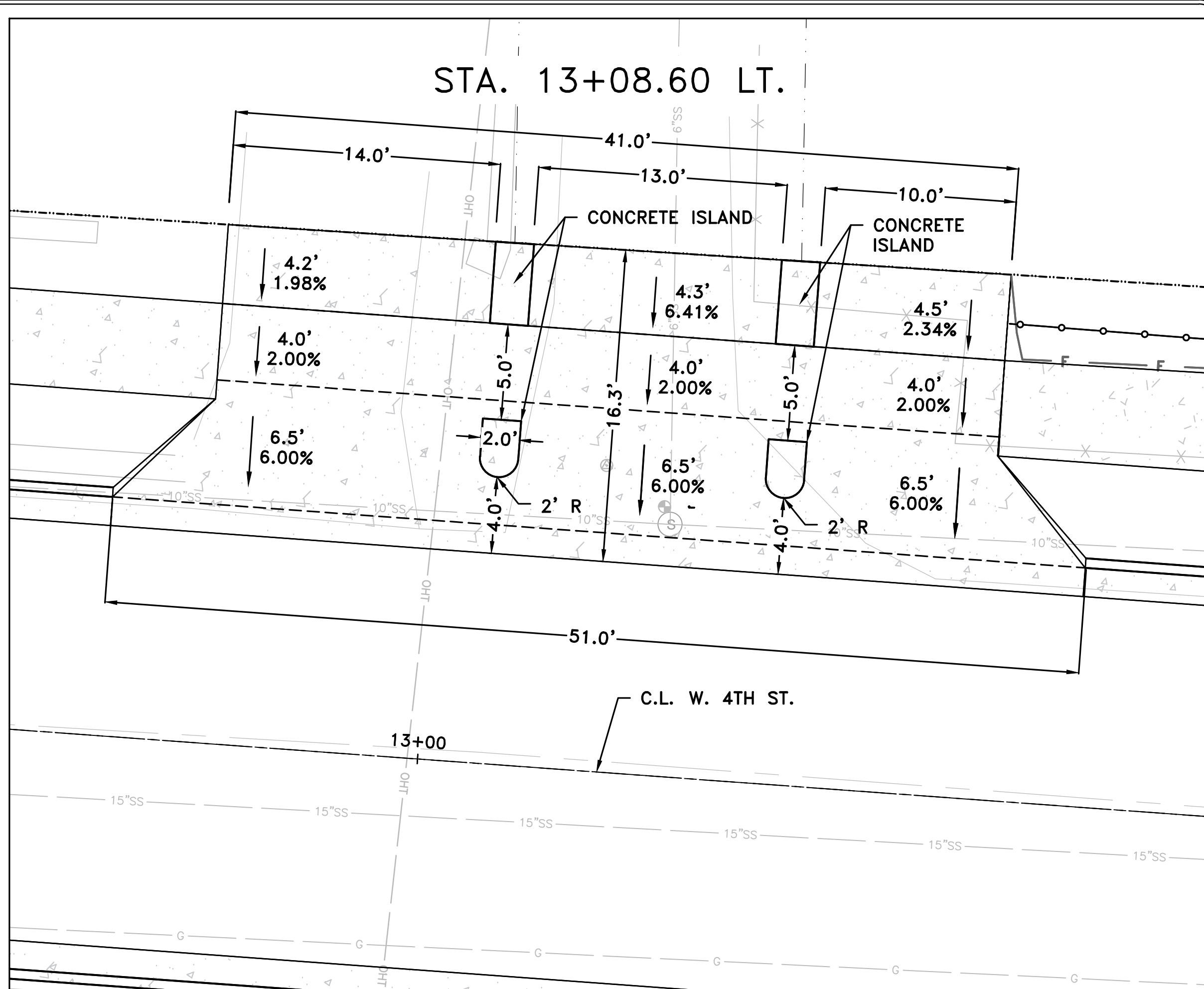
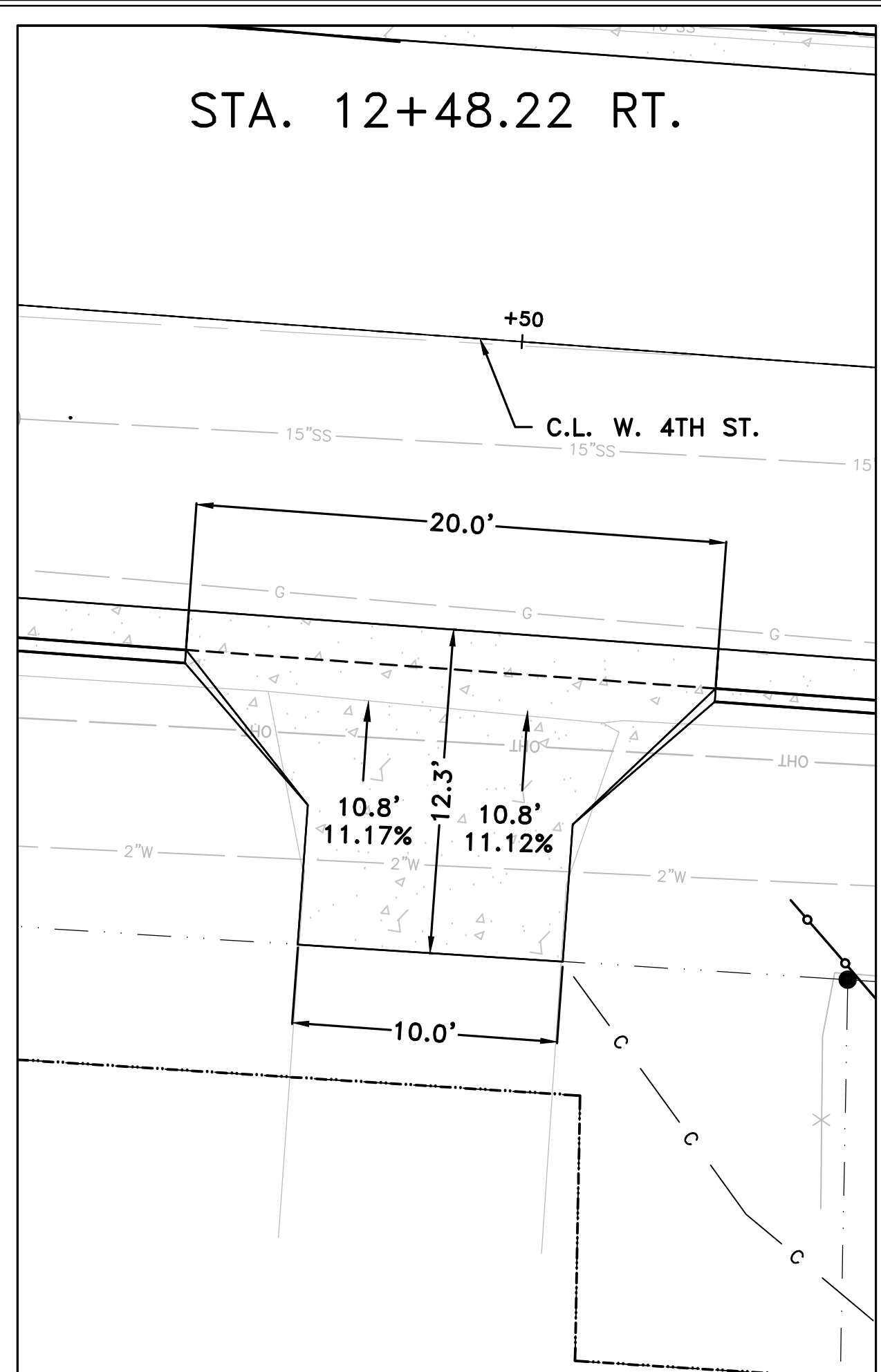
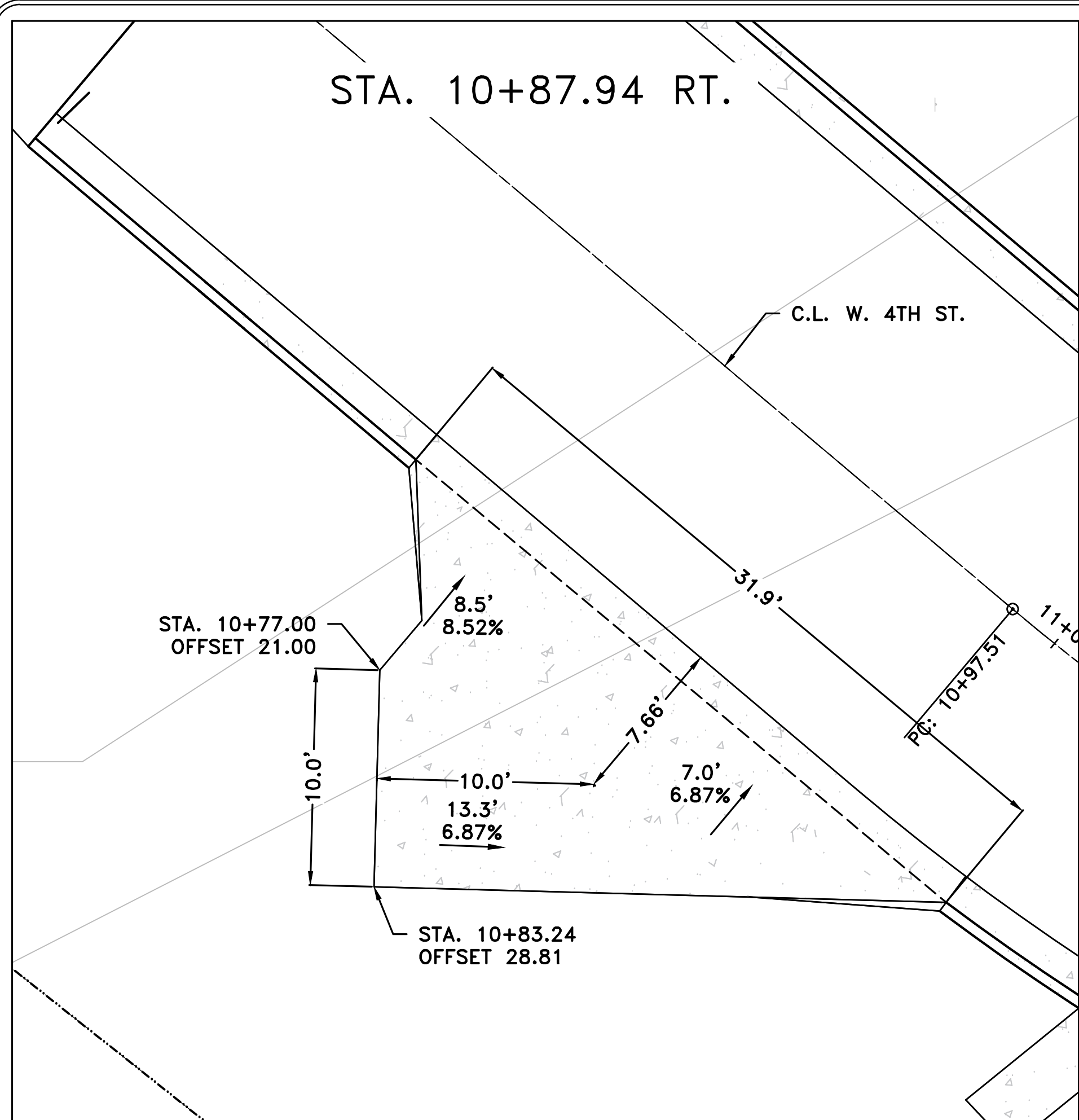
**TYPICAL MAINTENANCE OF RESIDENTIAL ACCESS DETAIL**

CITY OF LITTLE ROCK, ARKANSAS  
 WEST 4TH STREET DRAINAGE AND STREET IMPROVEMENTS  
 MAINTENANCE OF TRAFFIC

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



<b>DRAWN BY</b> TCP
<b>DESIGNED</b> RCC
<b>CHECKED</b> RCC
<b>DATE</b> 10-11-2024
<b>SCALE</b> H: 1"=40' V: 1"=40'
<b>PROJECT NO.</b> 03-17-DR-107
<b>SHEET NO.</b> C25

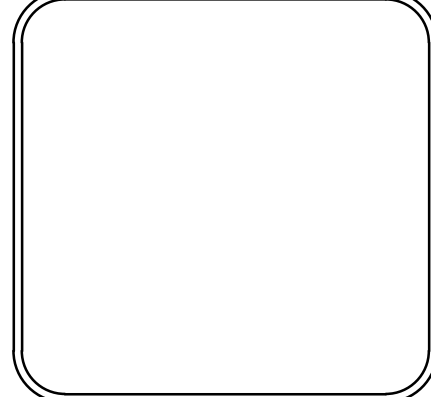


REVISIONS	DATE

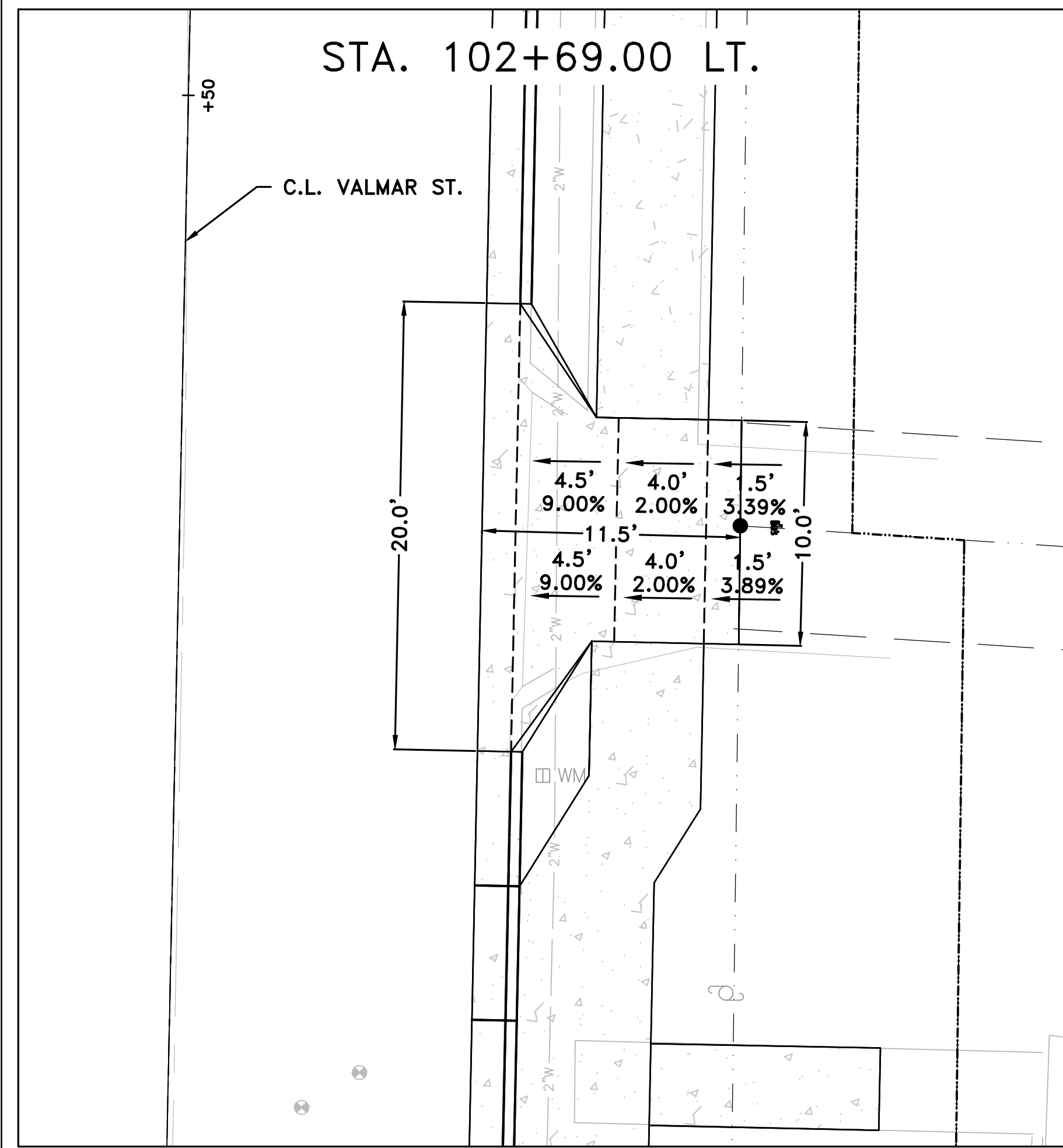
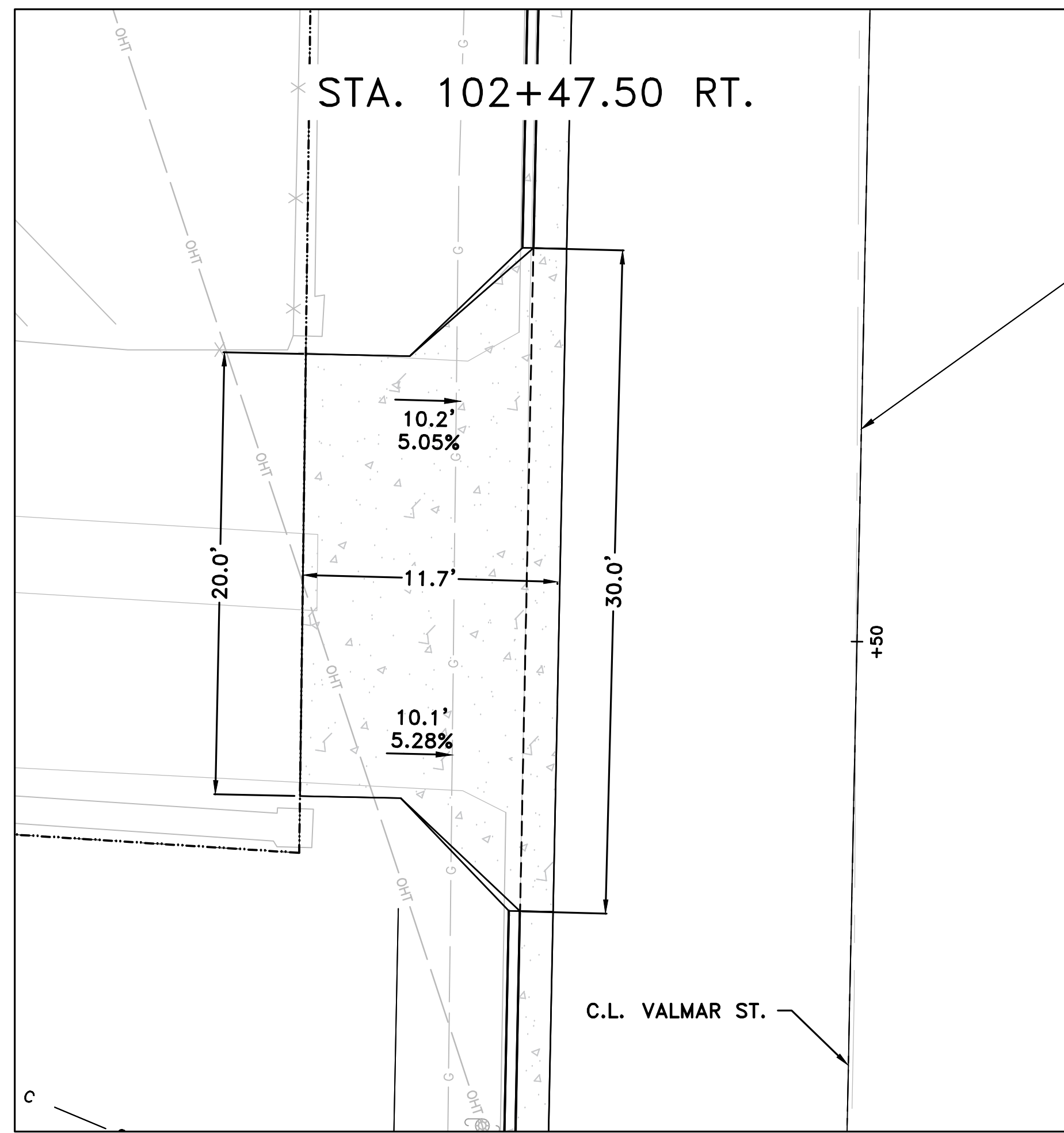
CITY OF LITTLE ROCK, ARKANSAS  
WEST 4TH STREET DRAINAGE  
AND STREET IMPROVEMENTS

DRIVEWAY DETAILS

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



DRAWN BY TCP
DESIGNED MJM
CHECKED RCC
DATE 10-11-2024
SCALE N.T.S.
PROJECT NO. 03-17-DR-107
SHEET NO. C26

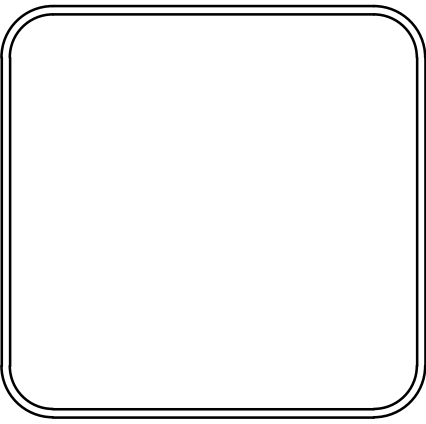


REVISIONS	DATE

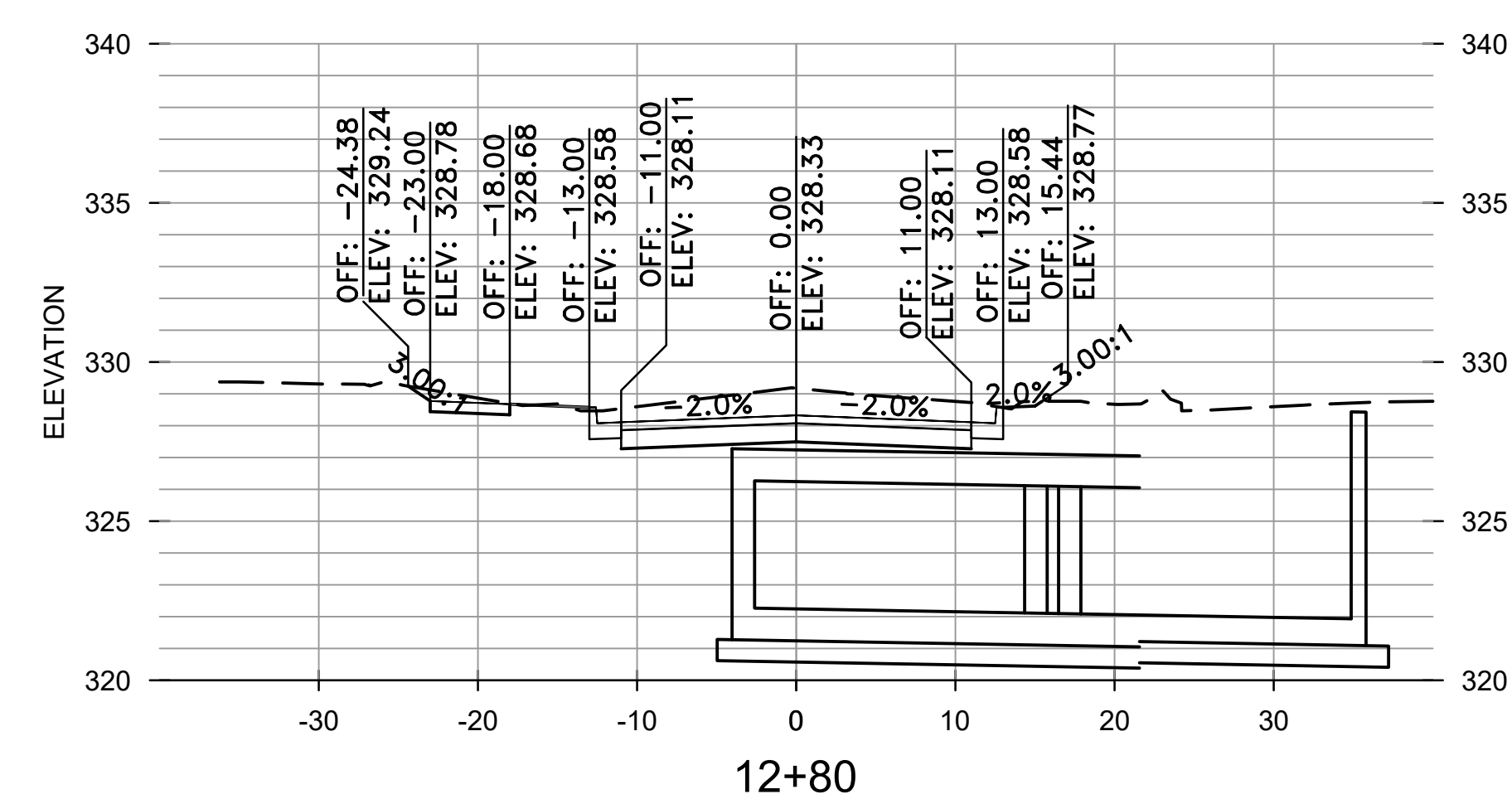
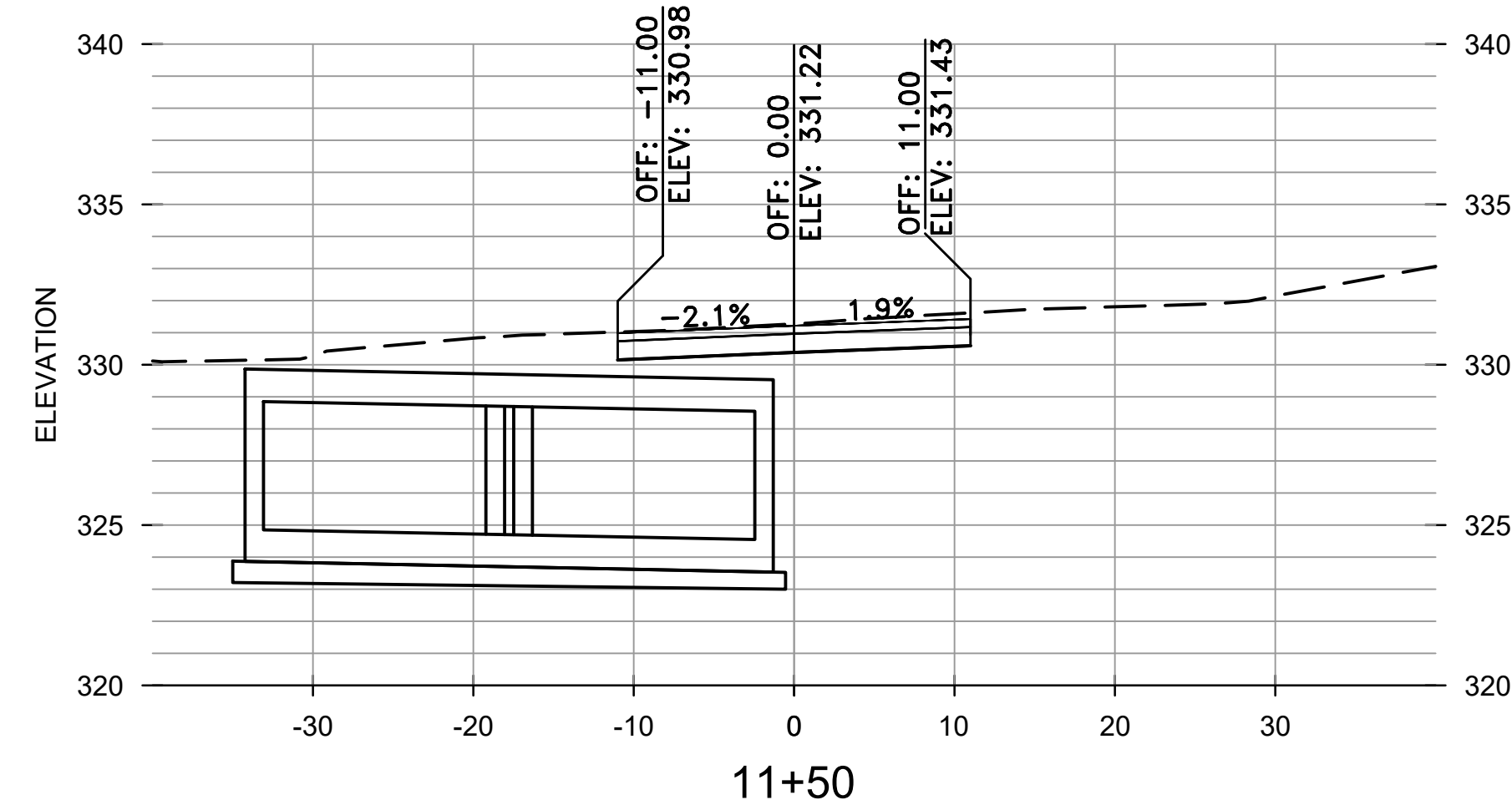
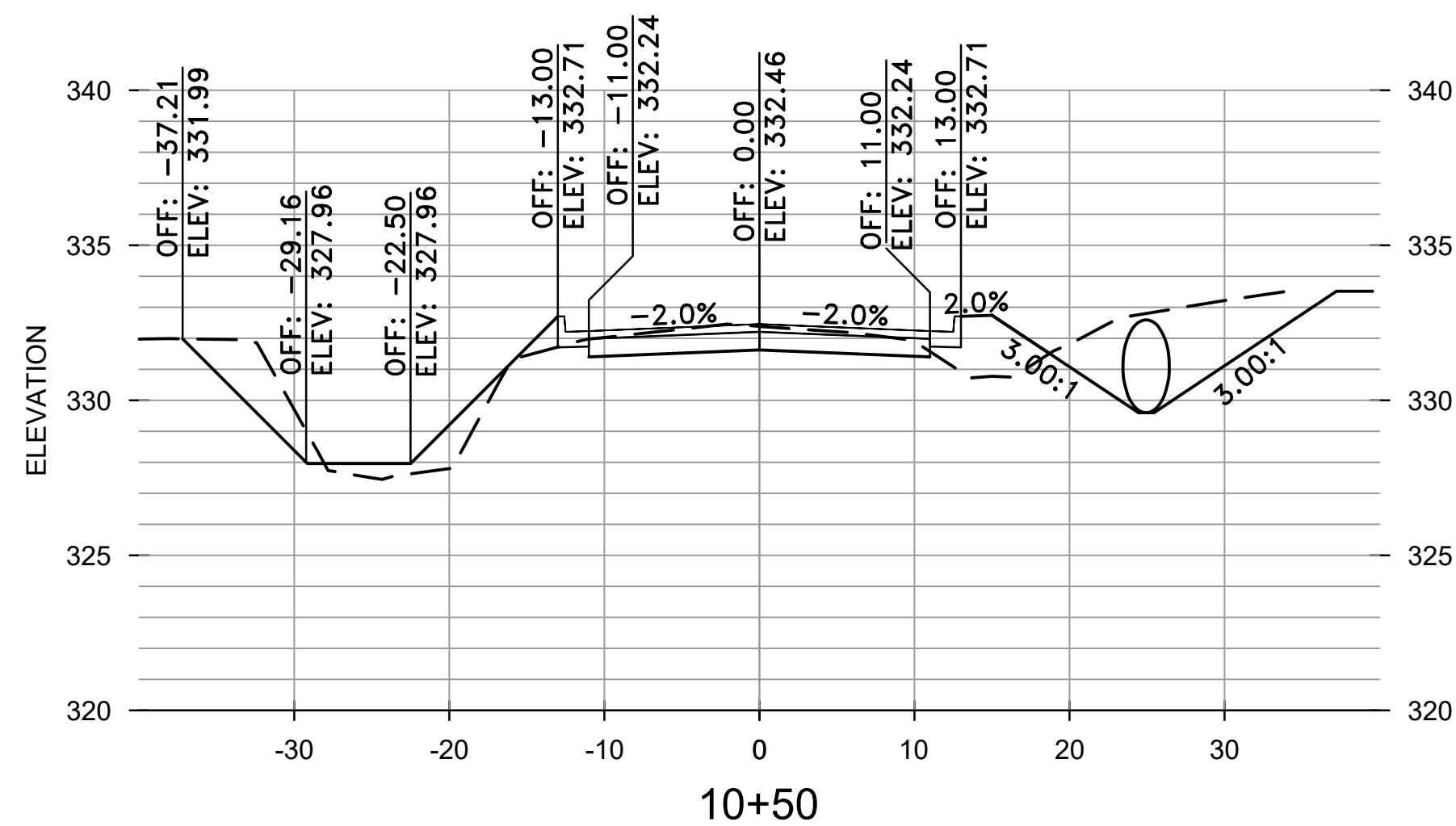
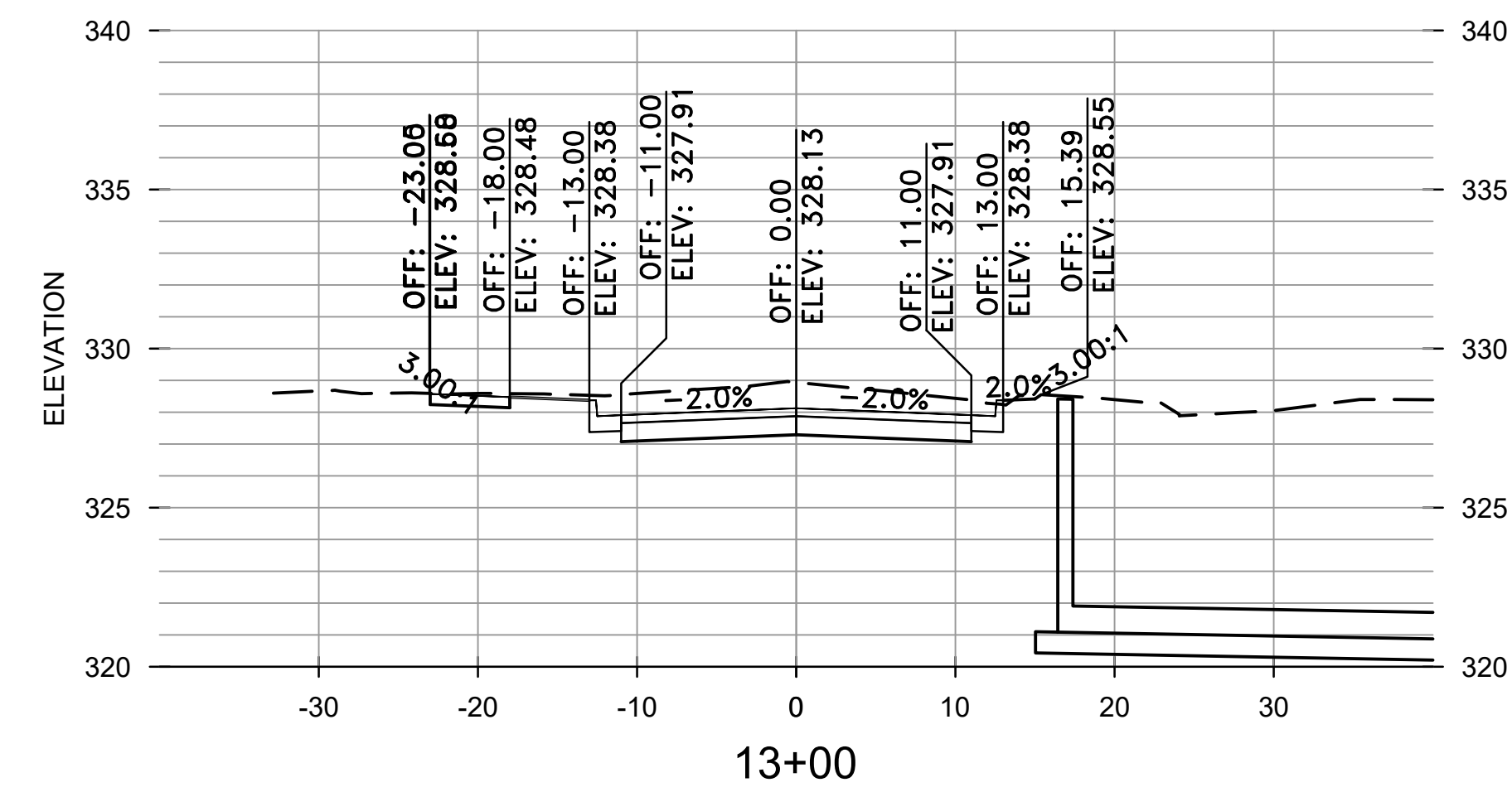
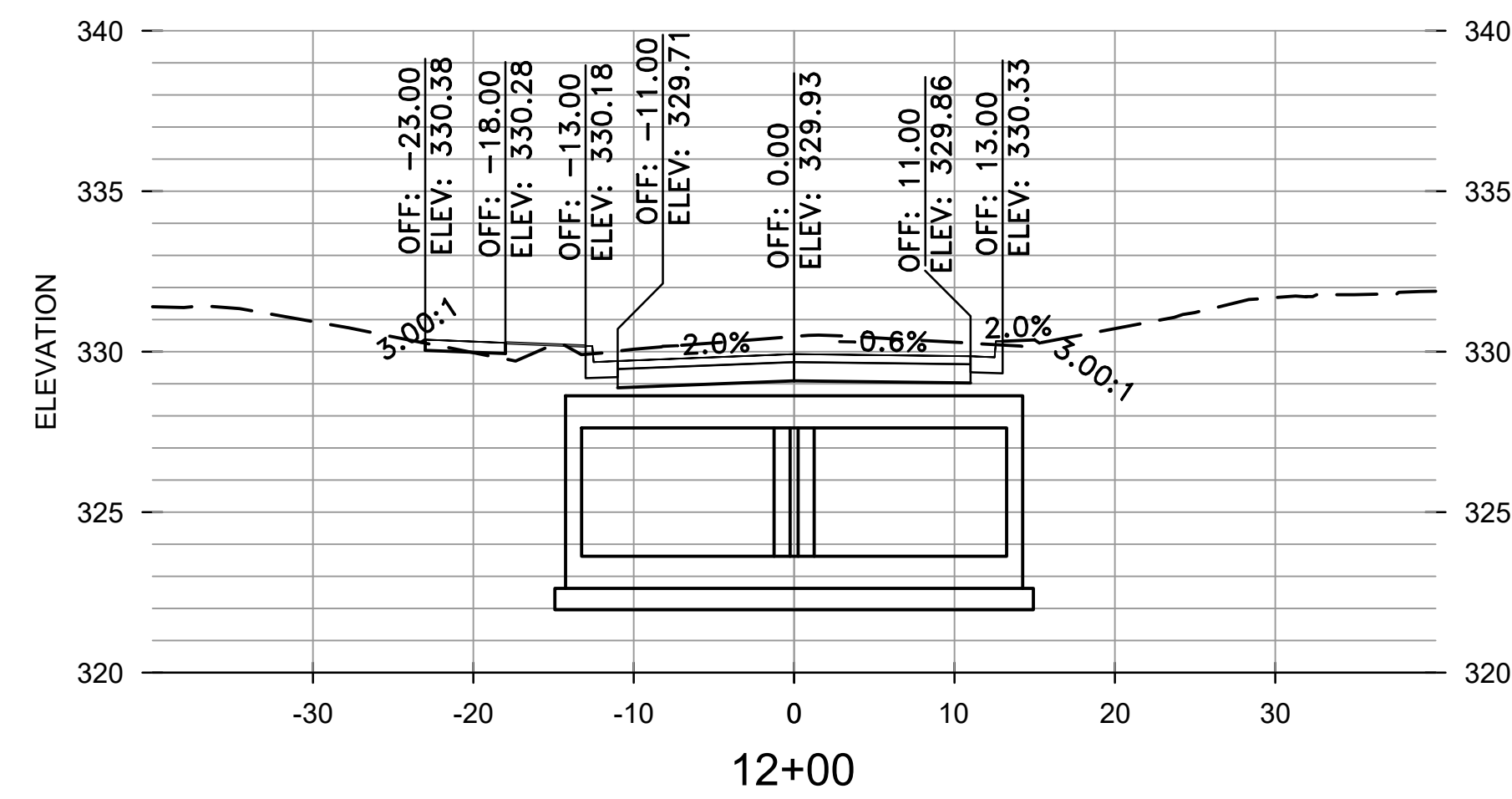
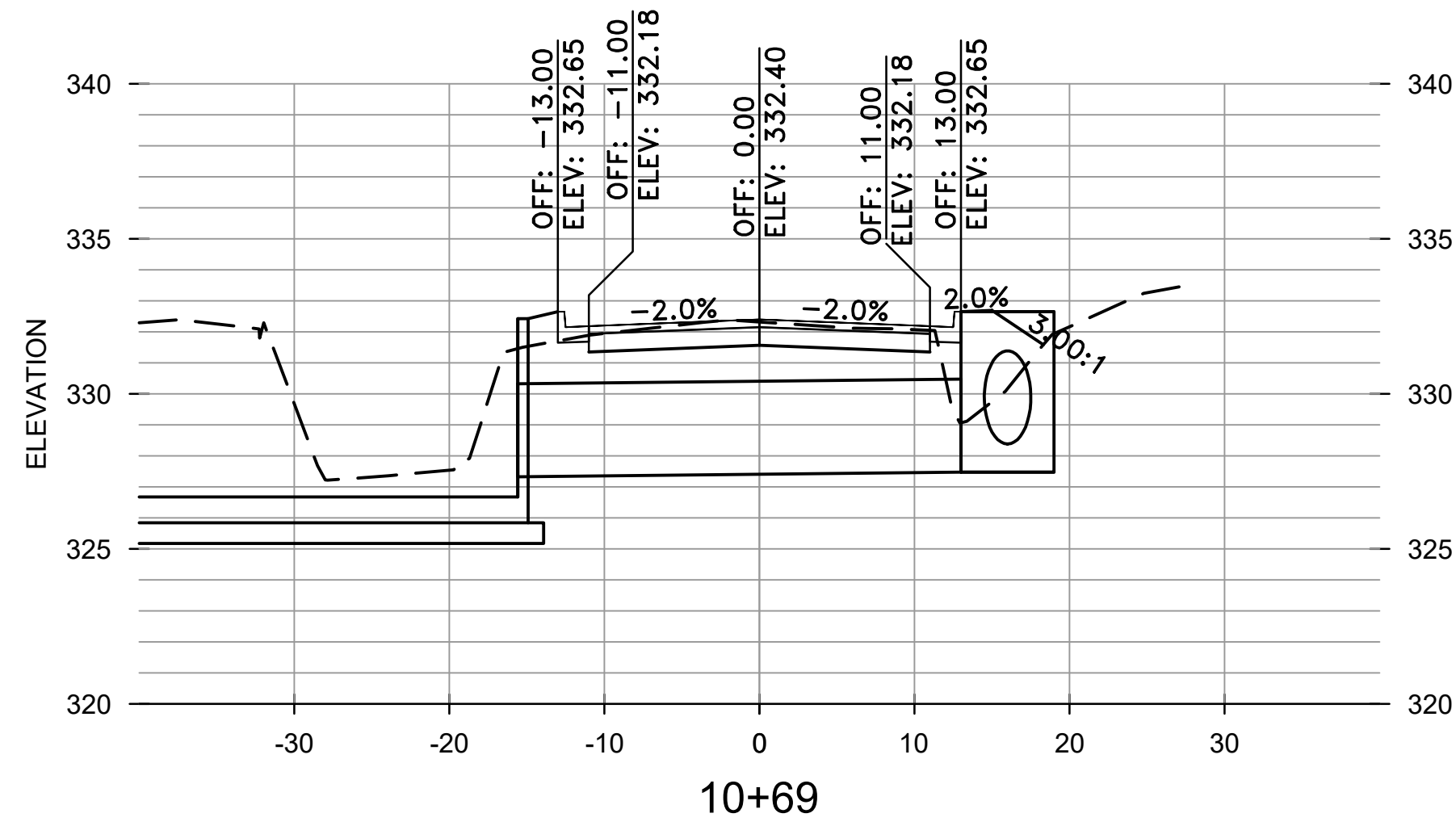
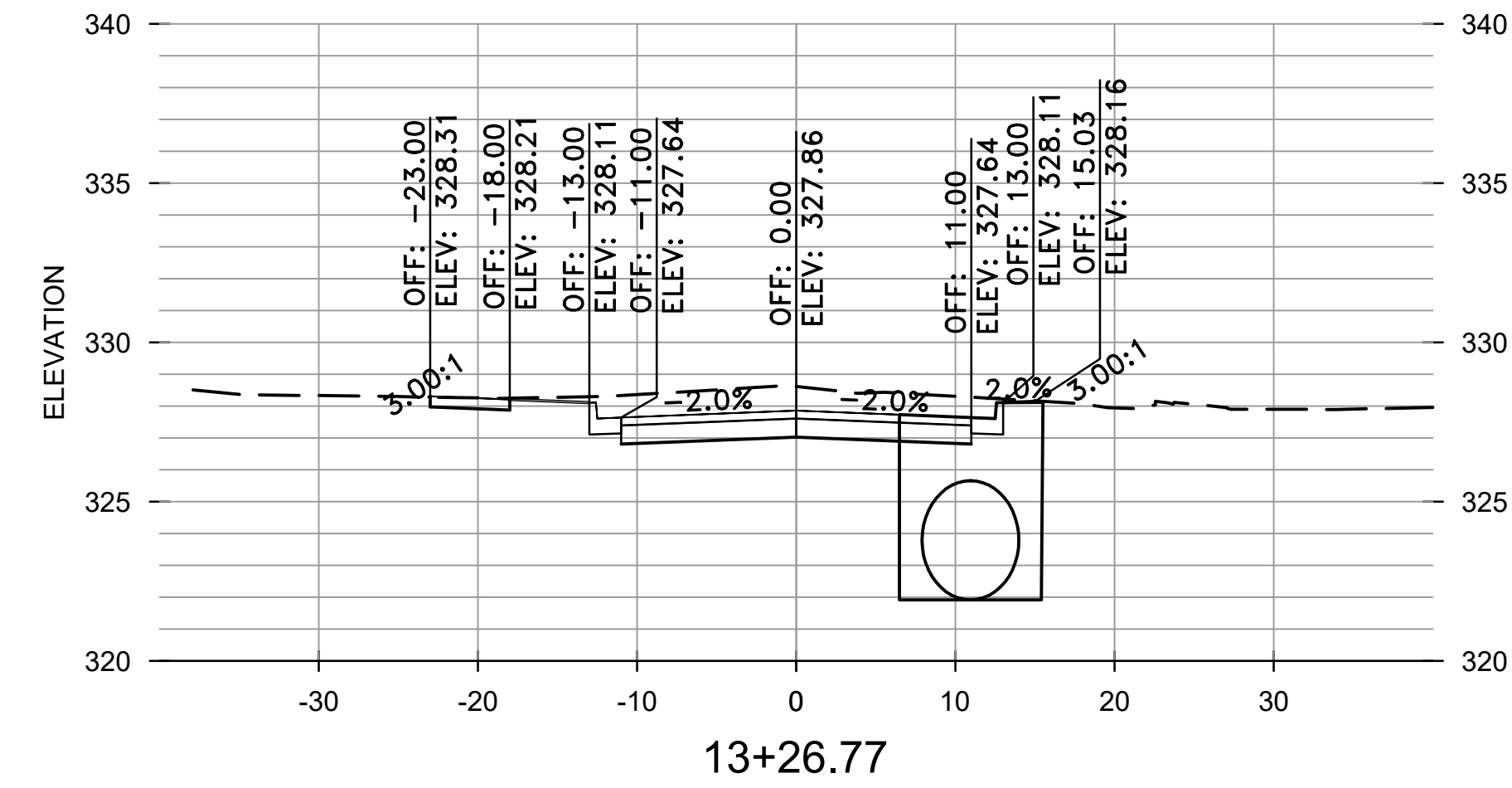
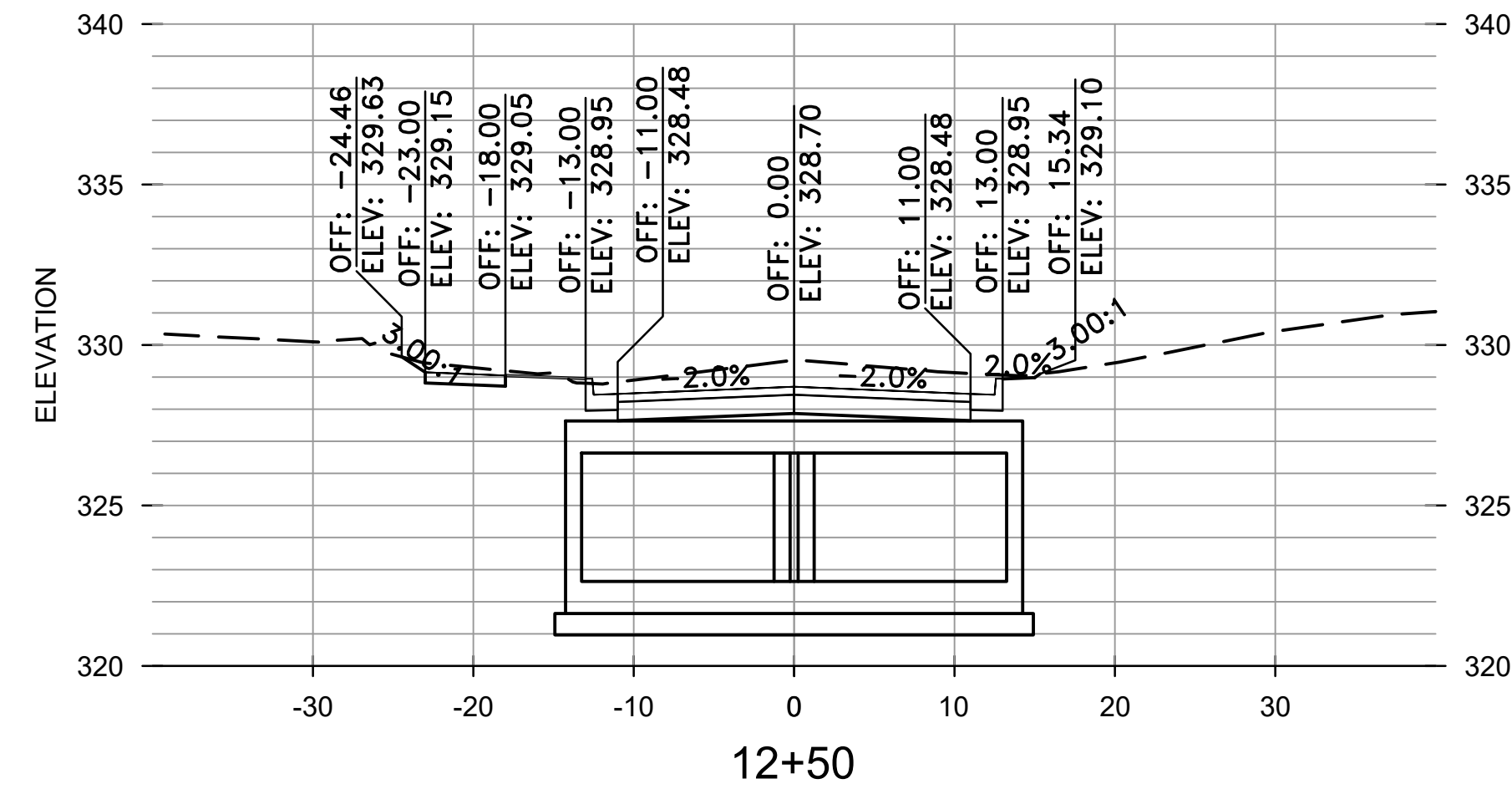
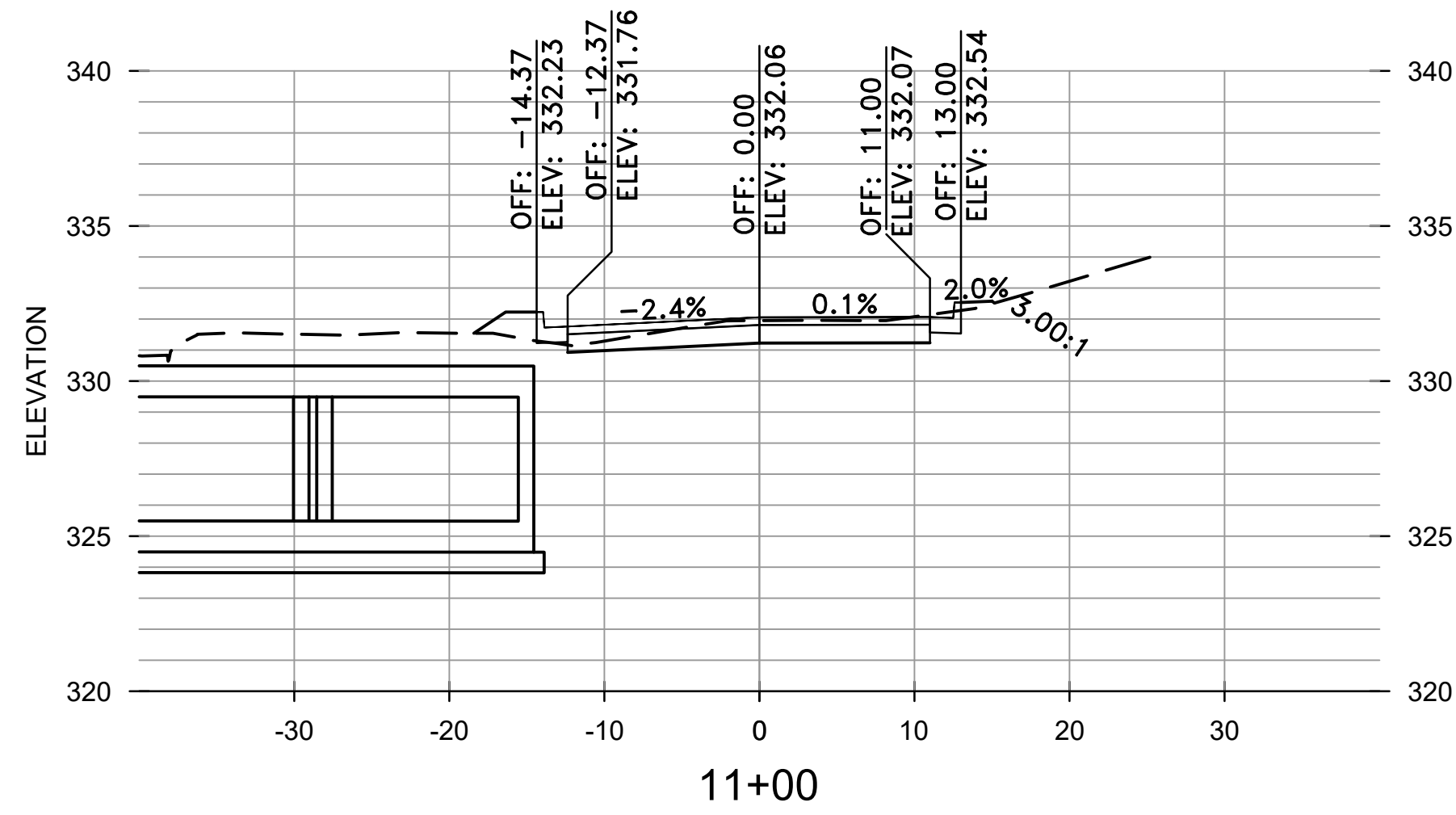
CITY OF LITTLE ROCK, ARKANSAS  
 WEST 4TH STREET DRAINAGE  
 AND STREET IMPROVEMENTS

DRIVEWAY DETAILS

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



DRAWN BY TCP
DESIGNED MJM
CHECKED RCC
DATE 10-11-2024
SCALE N.T.S.
PROJECT NO. 03-17-DR-107
SHEET NO. C27


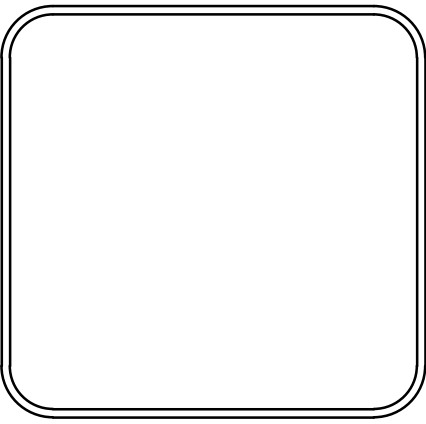


REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 WEST 4TH STREET DRAINAGE  
 AND STREET IMPROVEMENTS

CROSS SECTIONS  
 4TH STREET

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

DRAWN BY  
TCP

DESIGNED  
RCC

CHECKED  
RCC

DATE  
10-11-2024

SCALE  
H: 1"=10'  
V: 1"=5'

PROJECT NO.  
03-17-DR-107

SHEET NO.  
C28

REVISIONS	DATE

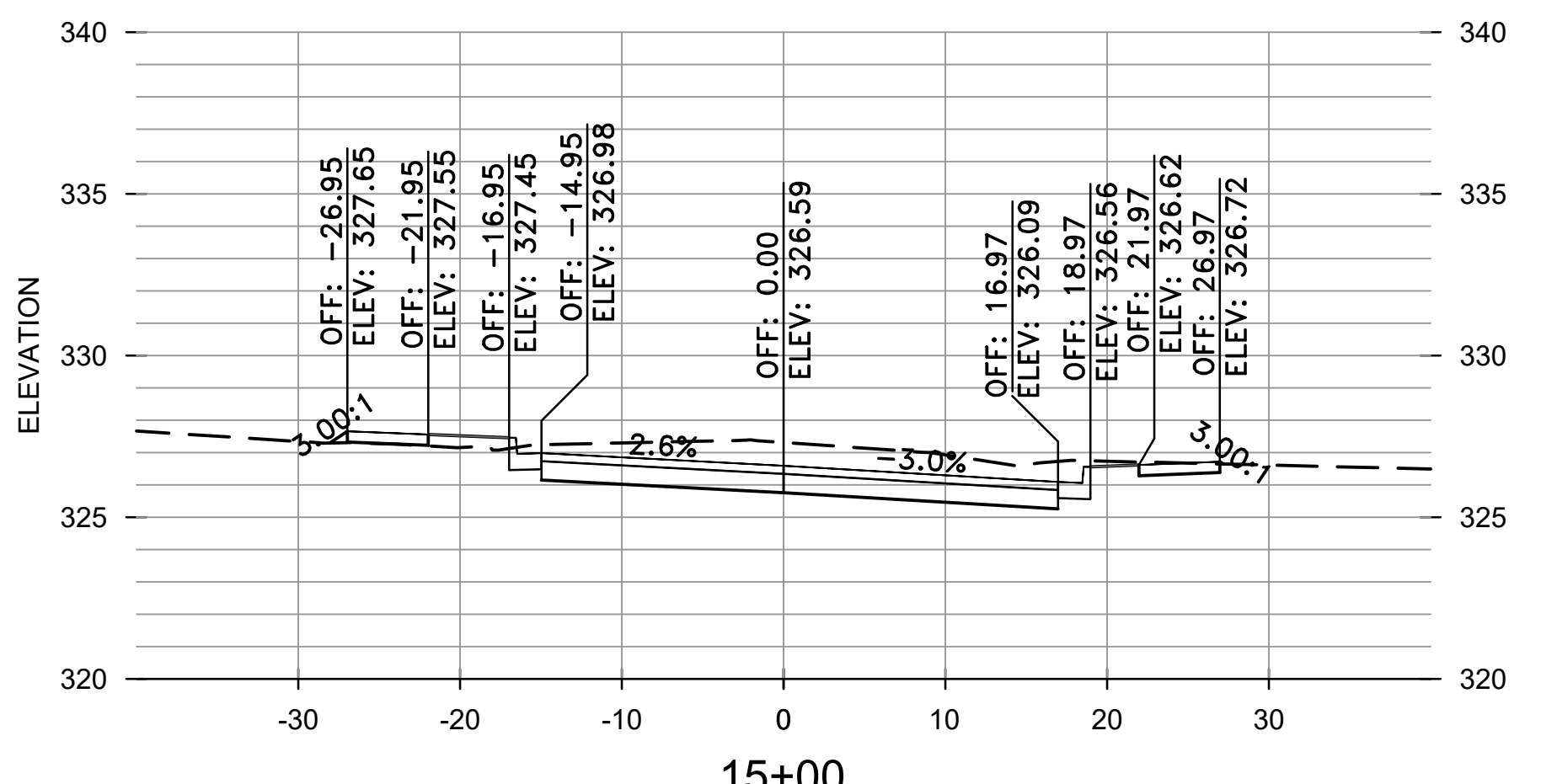
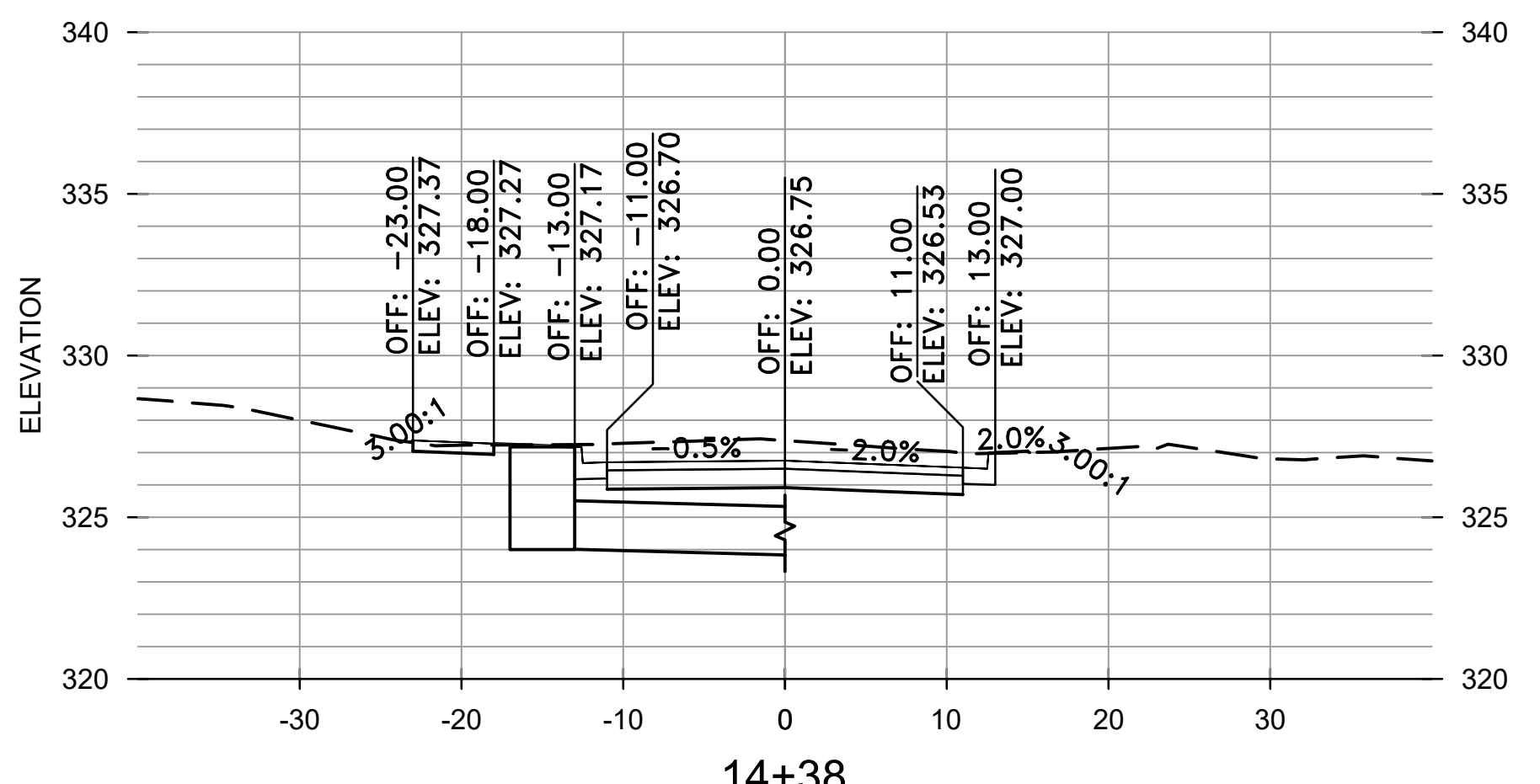
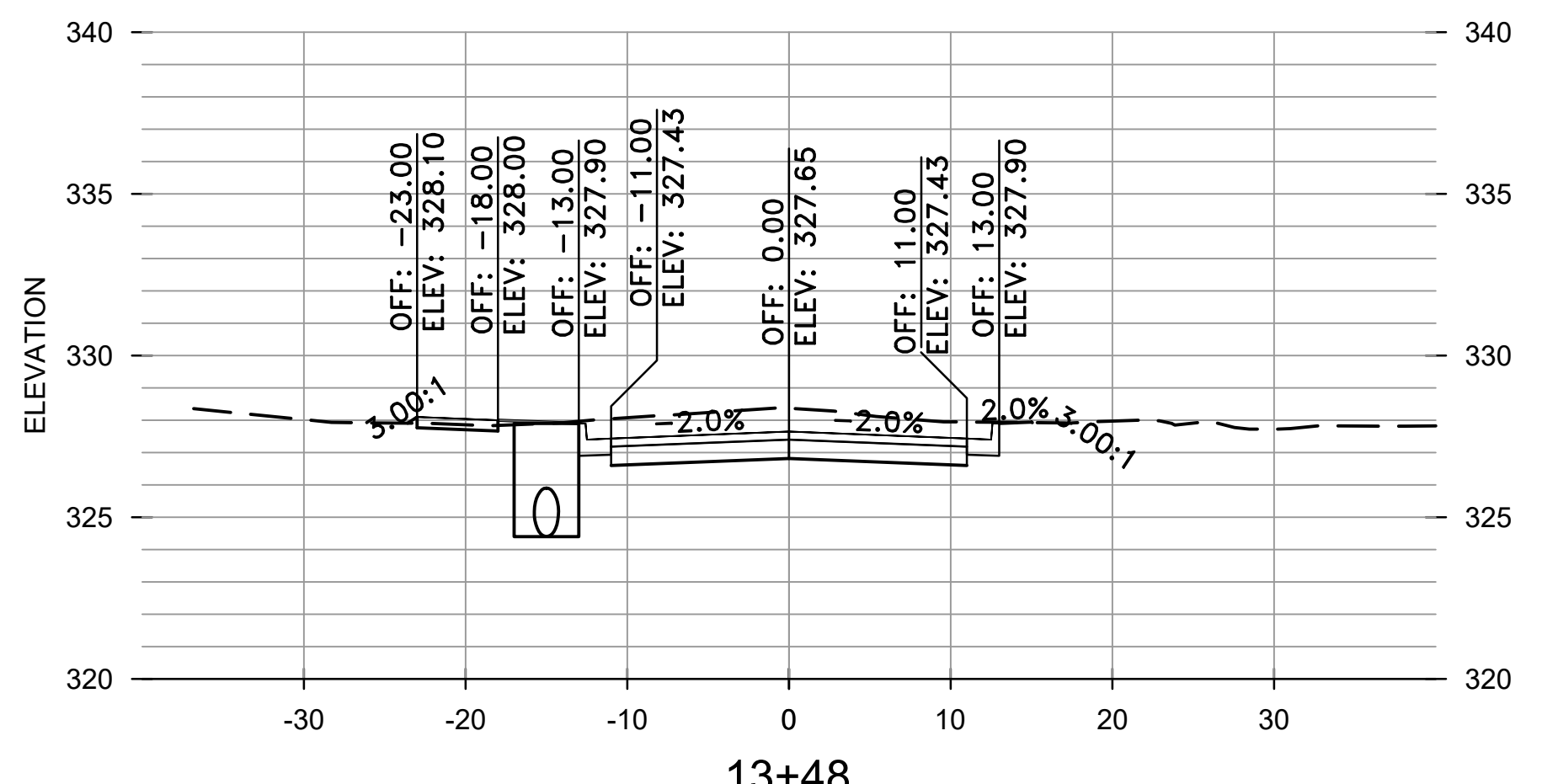
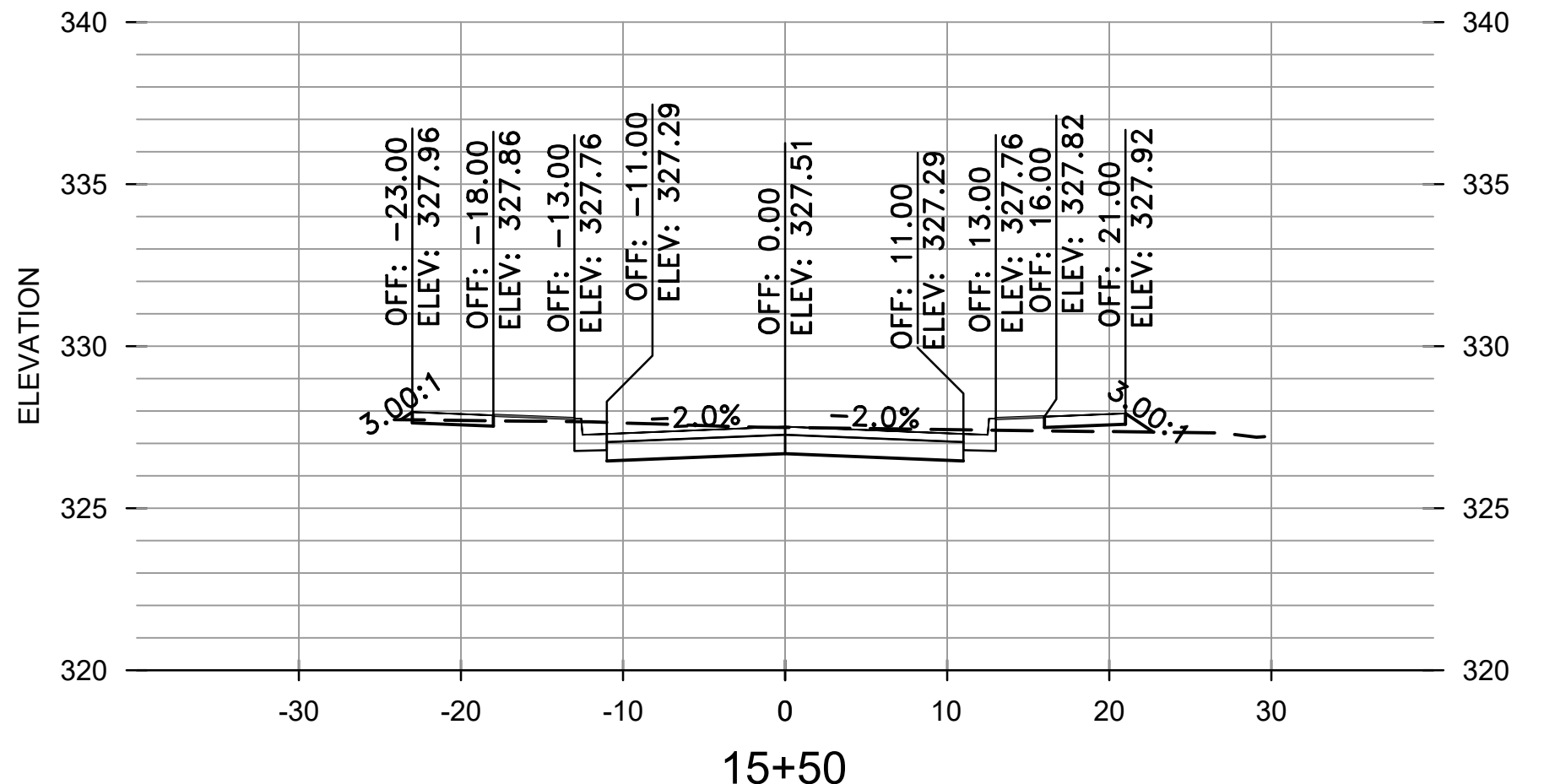
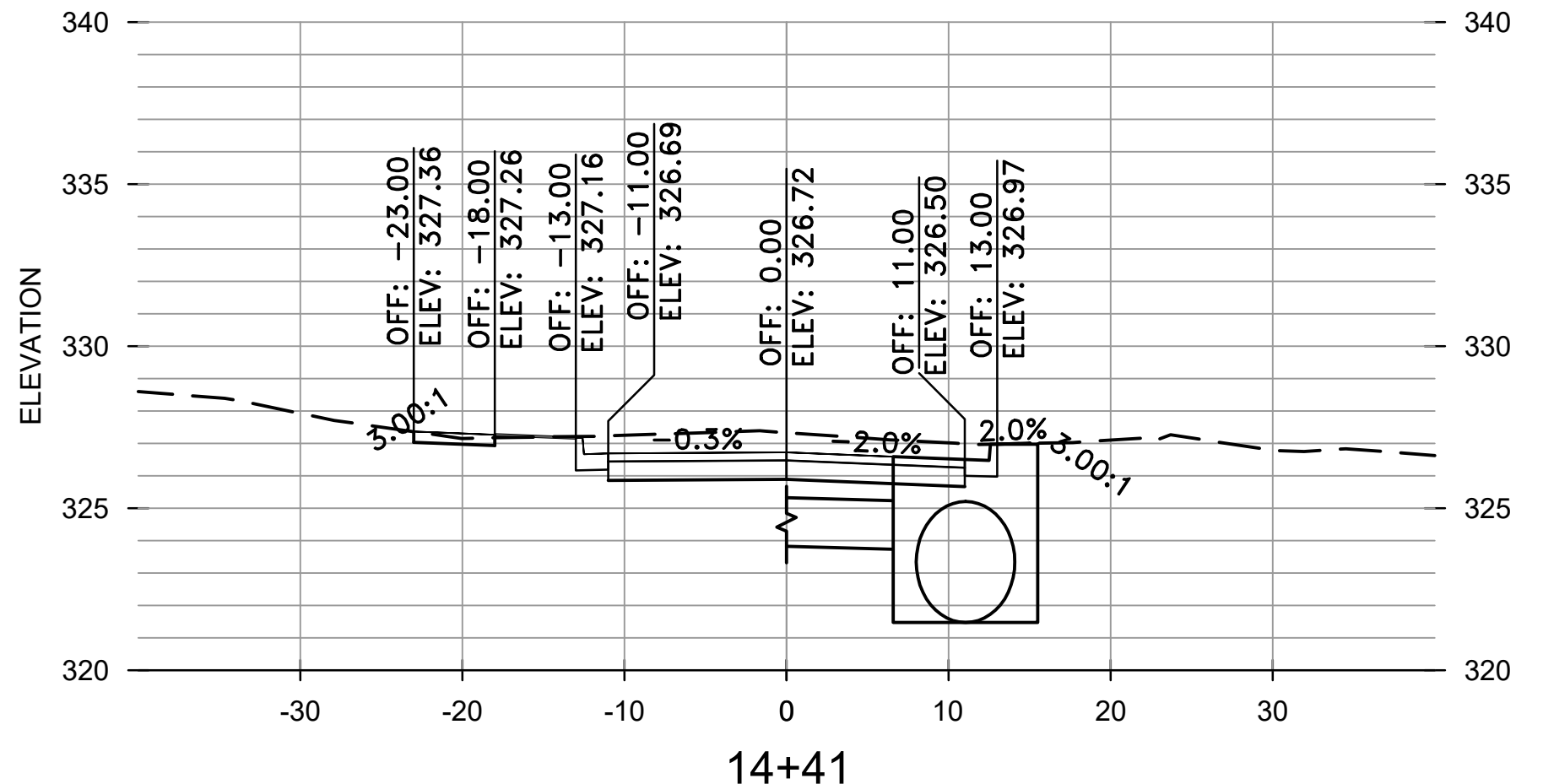
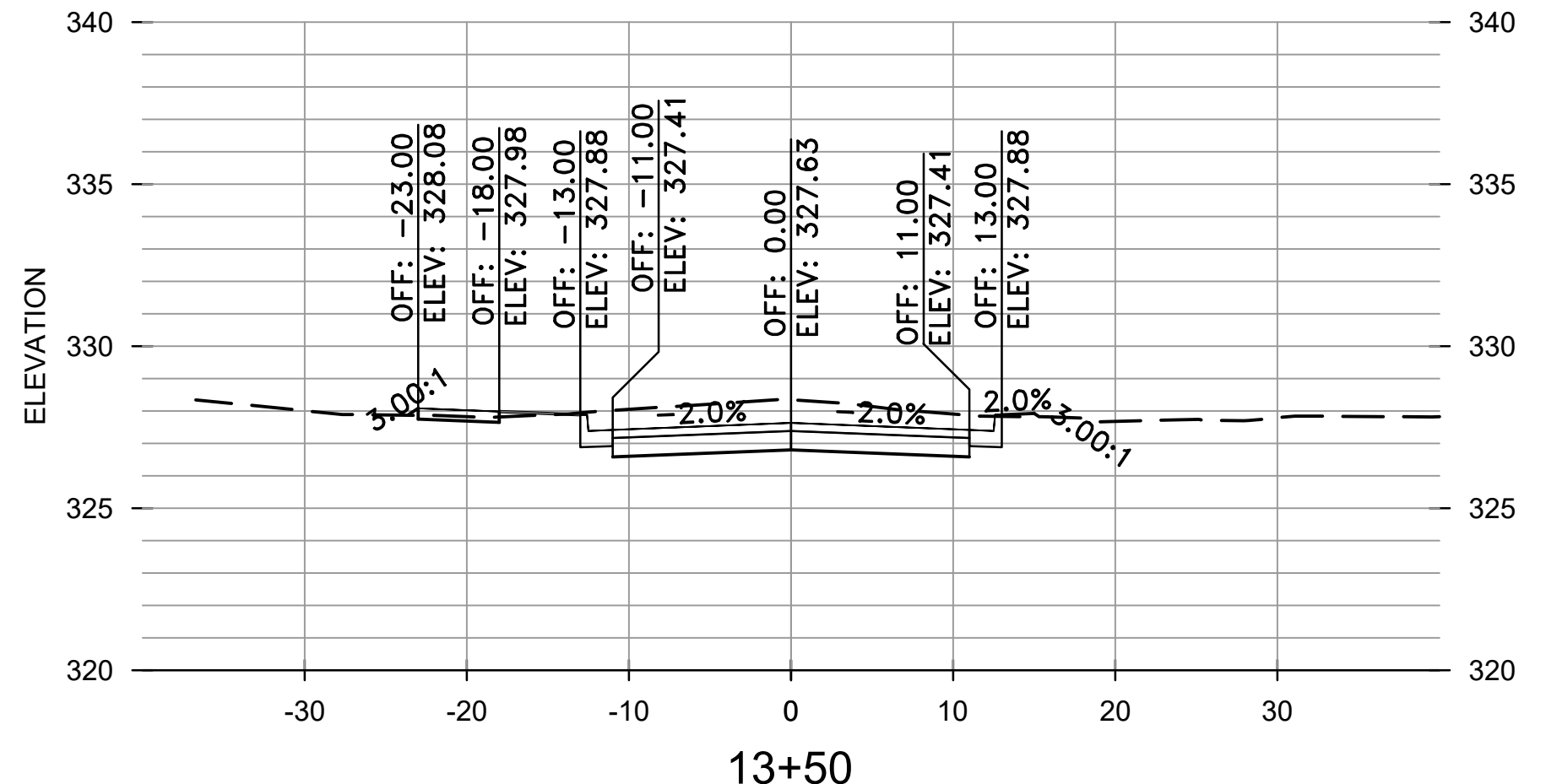
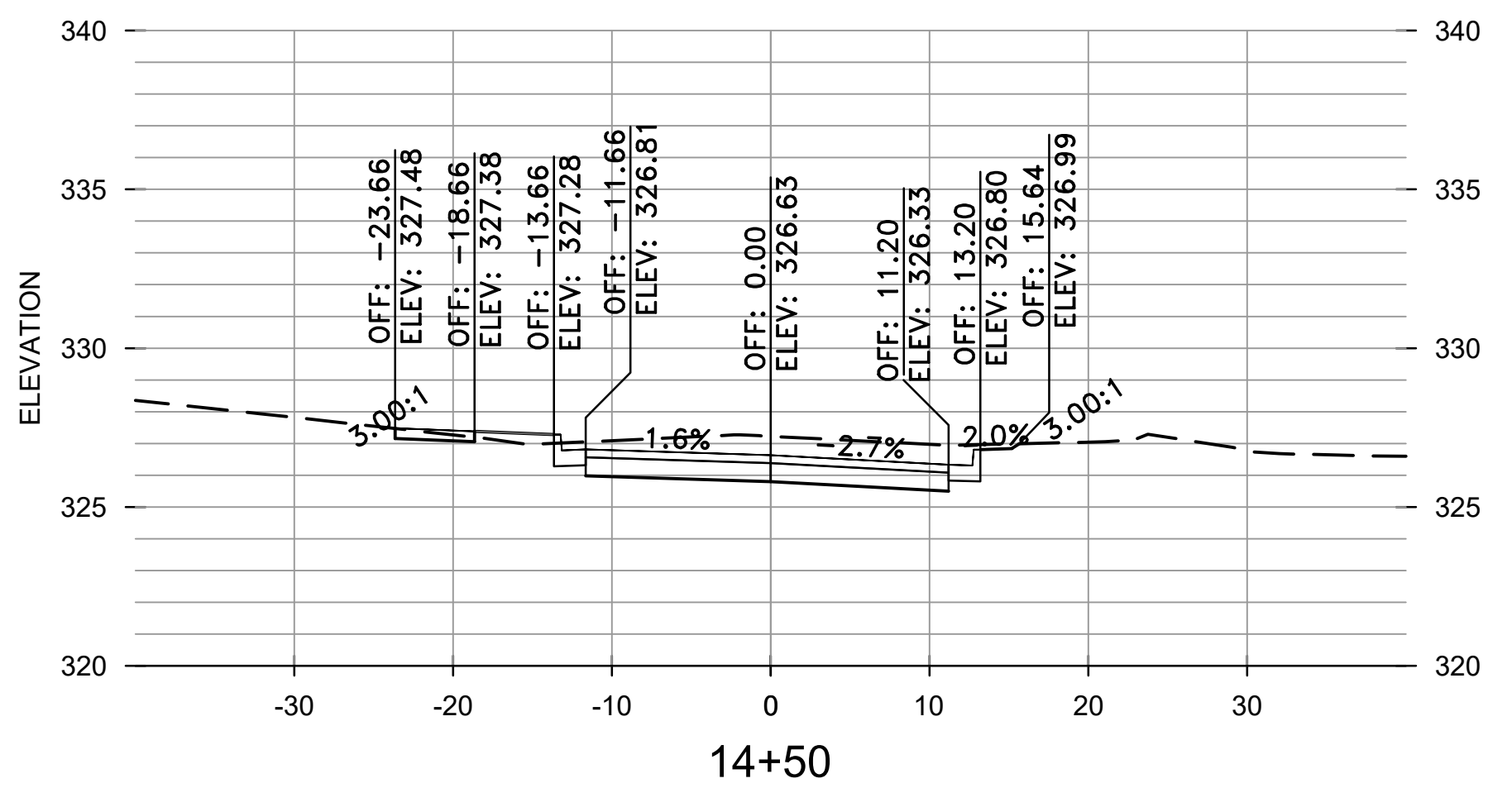
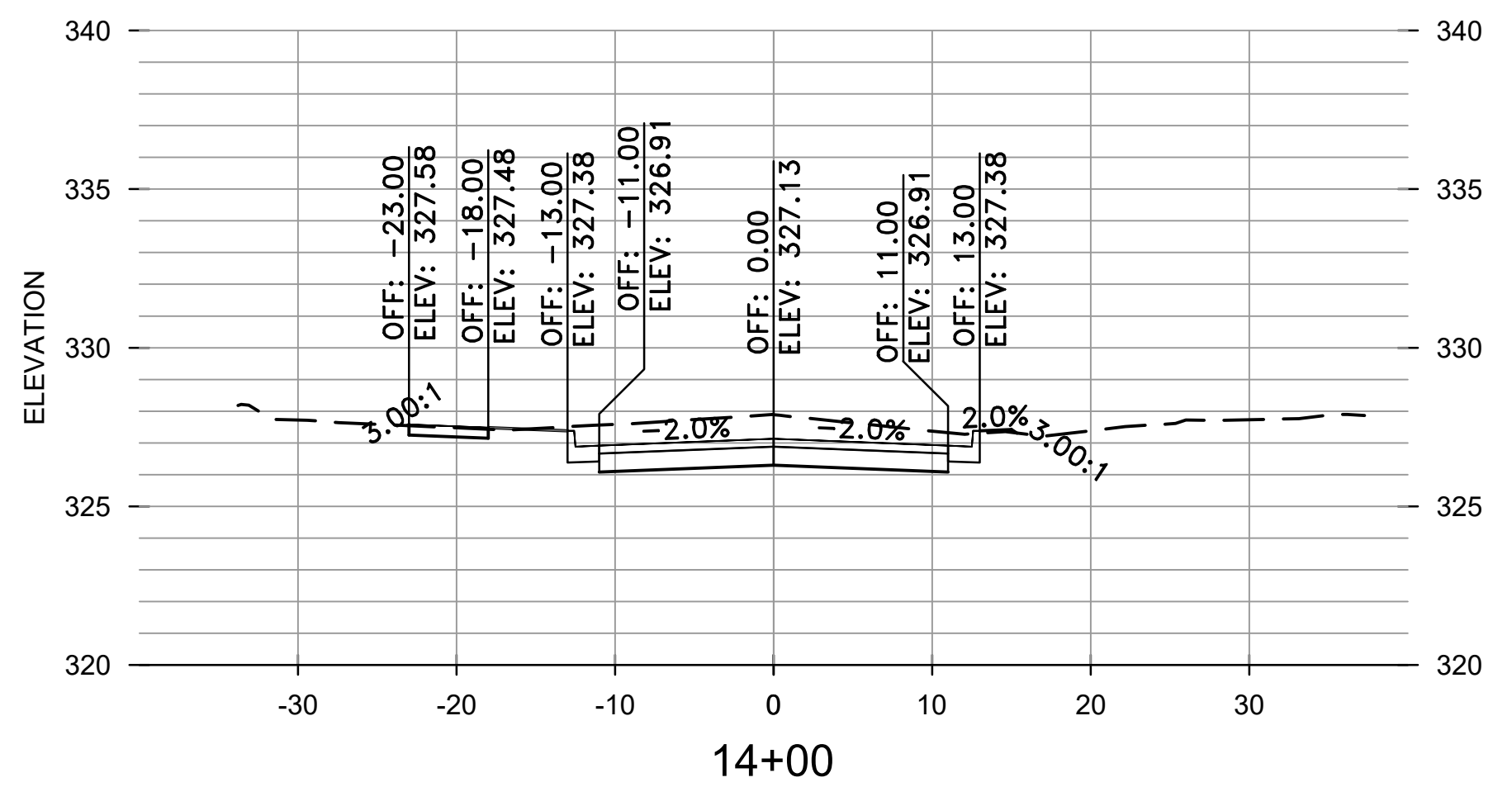
CITY OF LITTLE ROCK, ARKANSAS  
 WEST 4TH STREET DRAINAGE  
 AND STREET IMPROVEMENTS

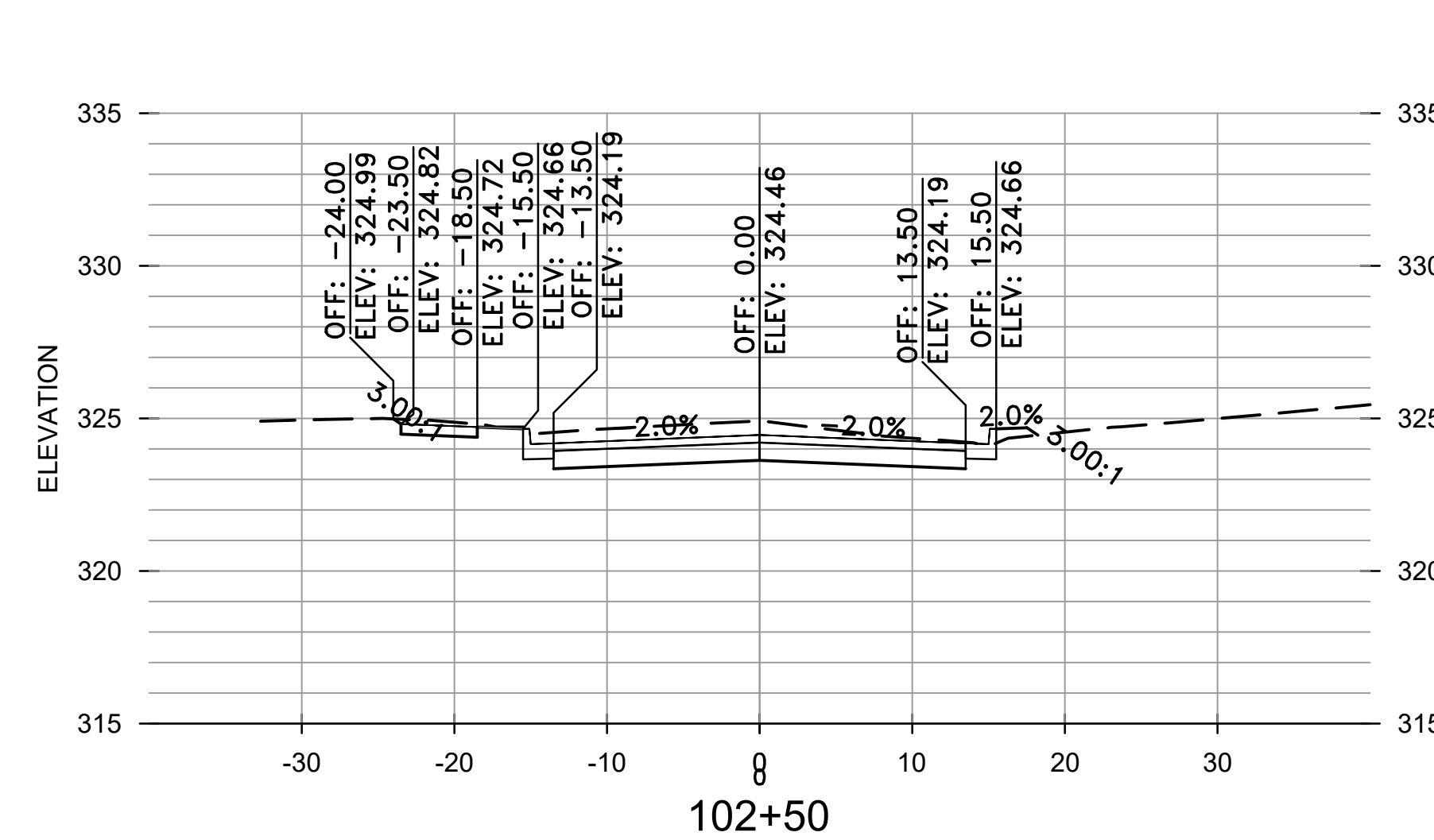
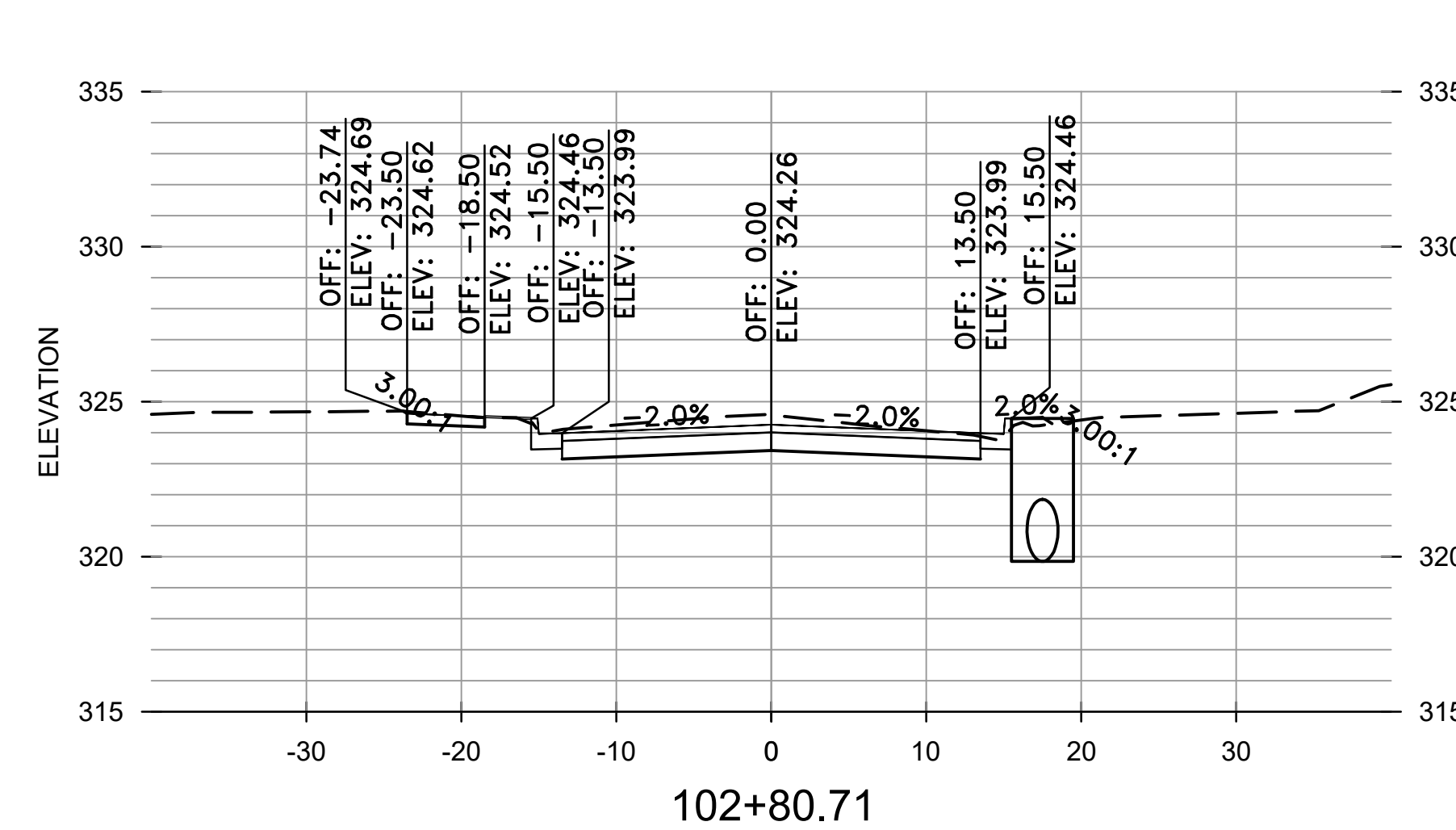
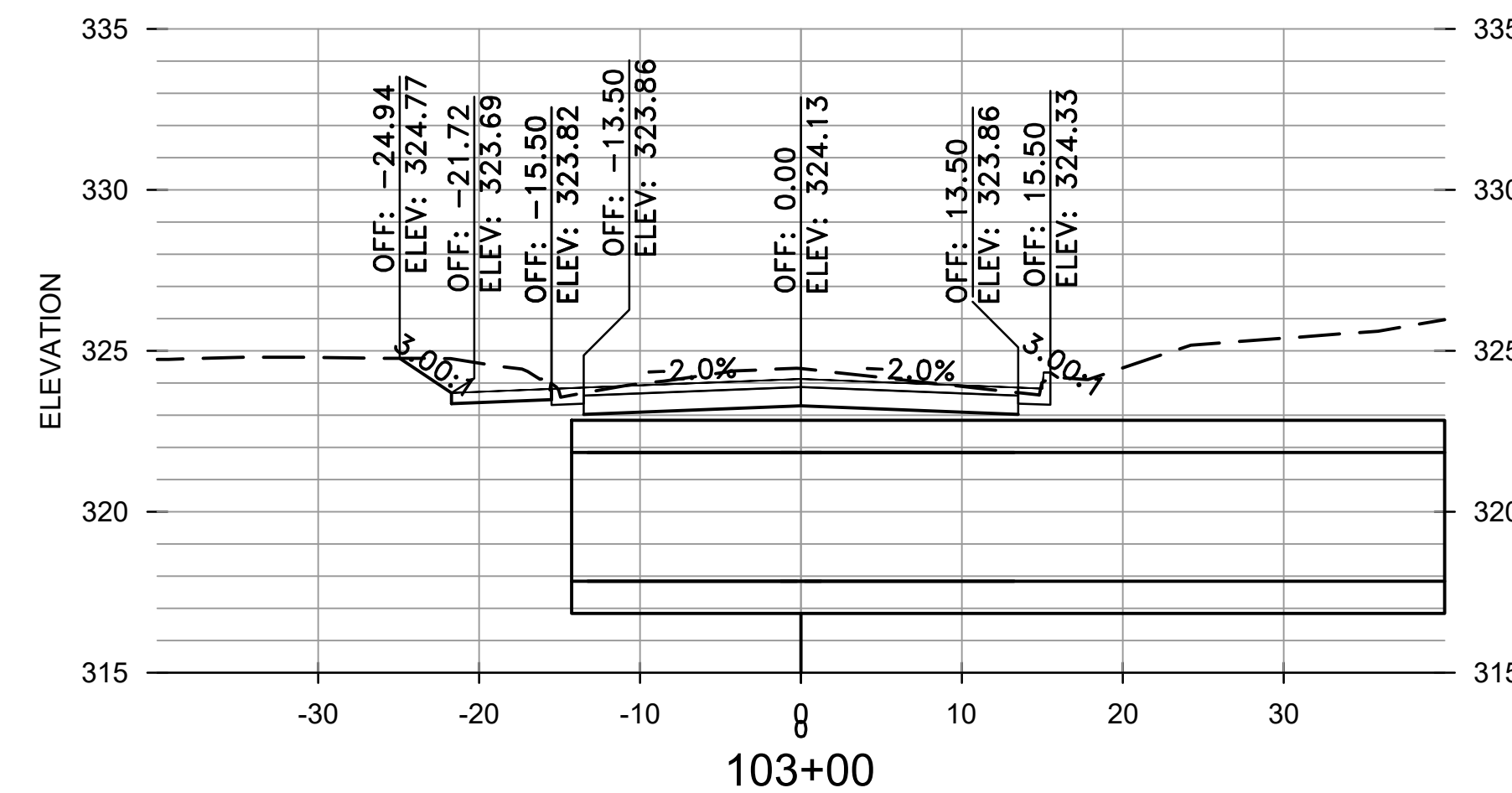
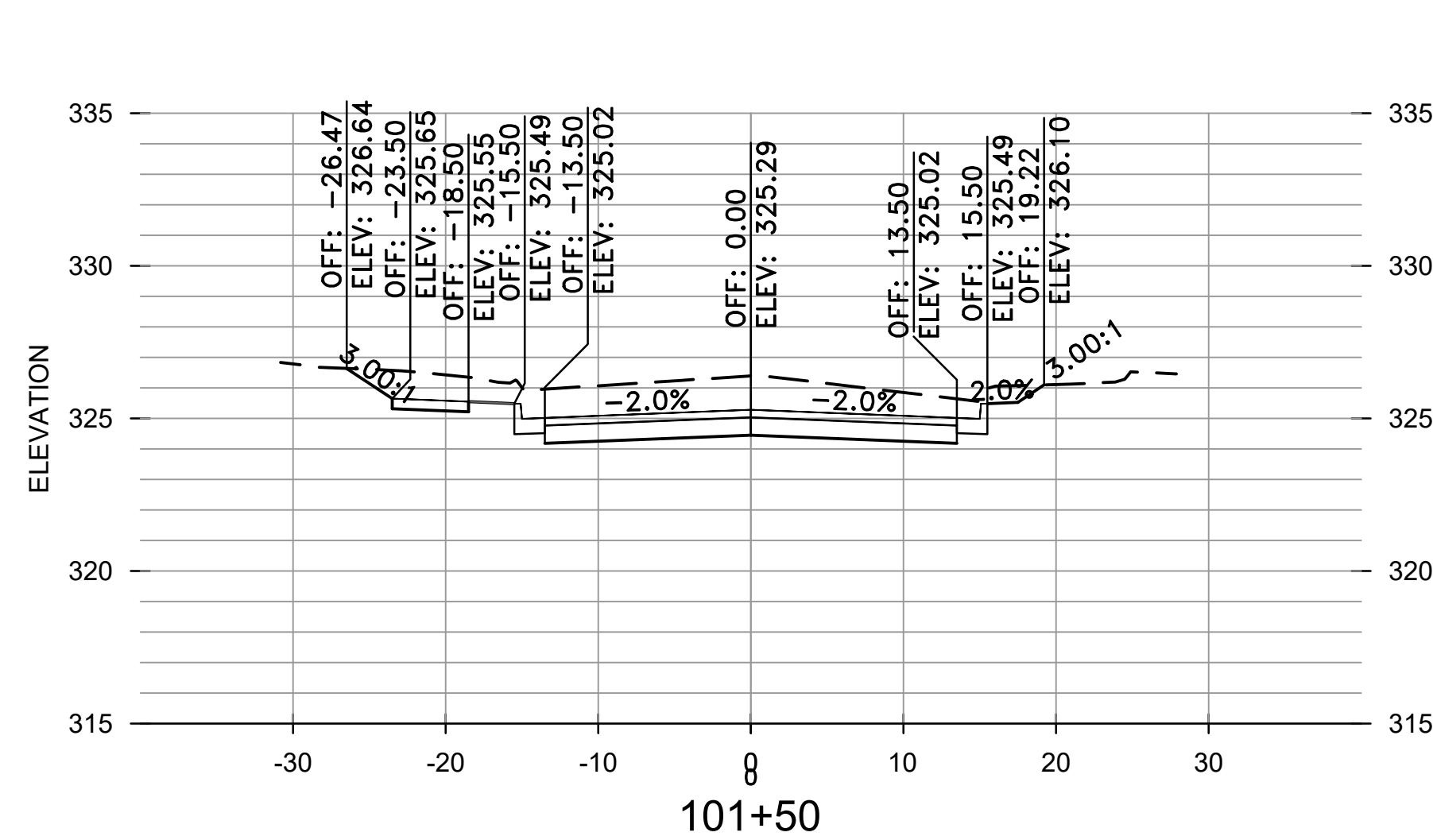
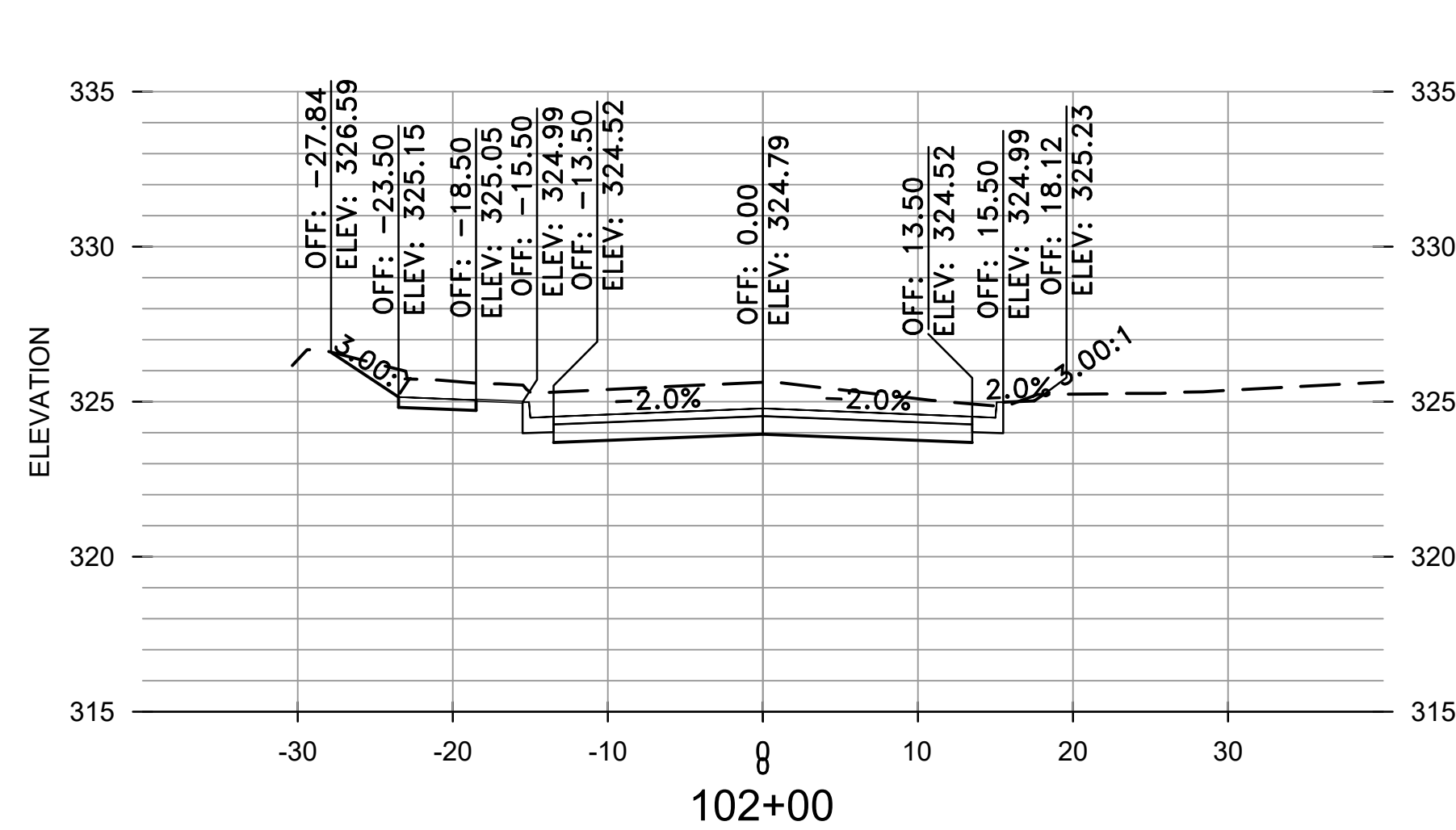
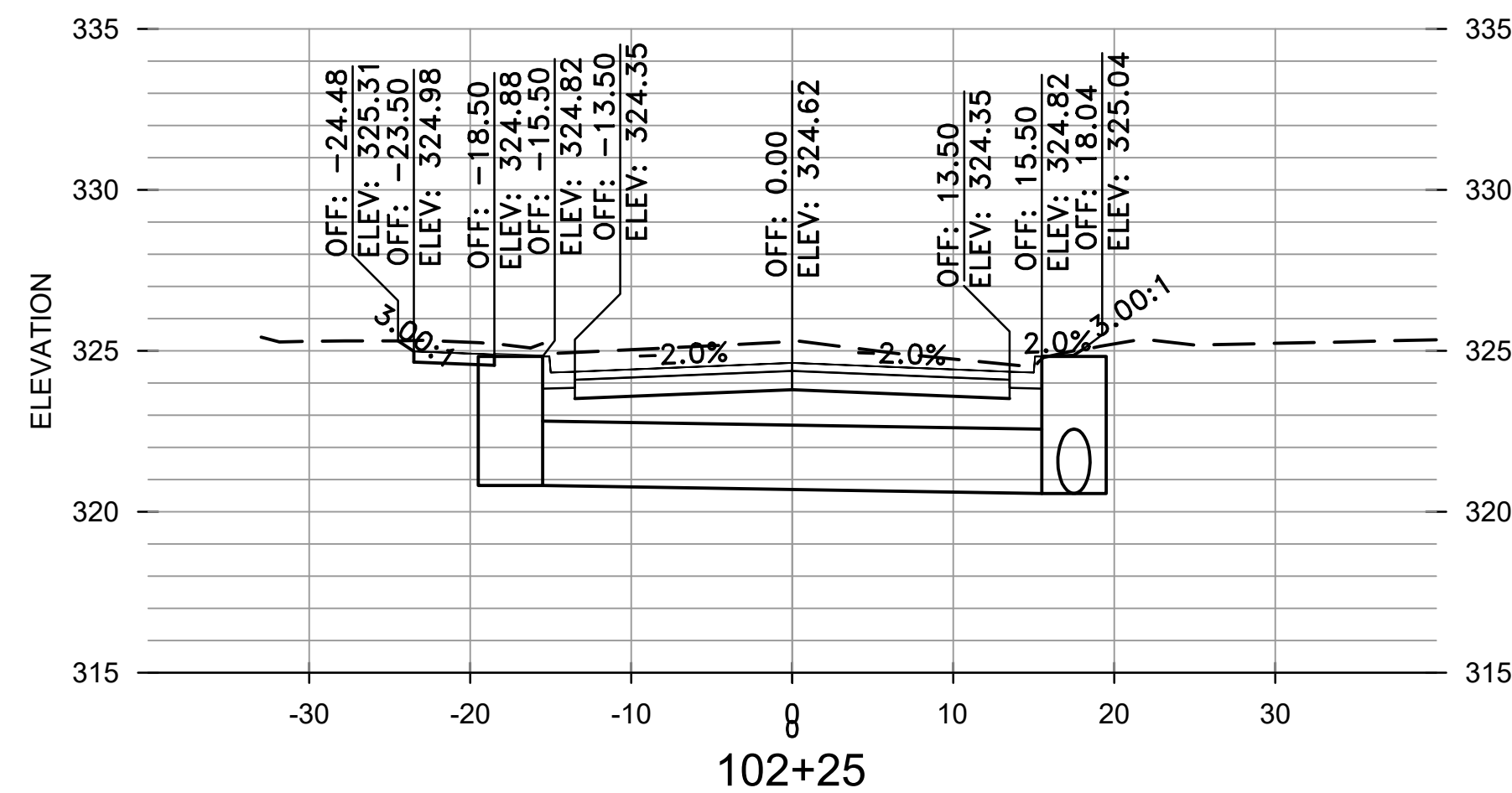
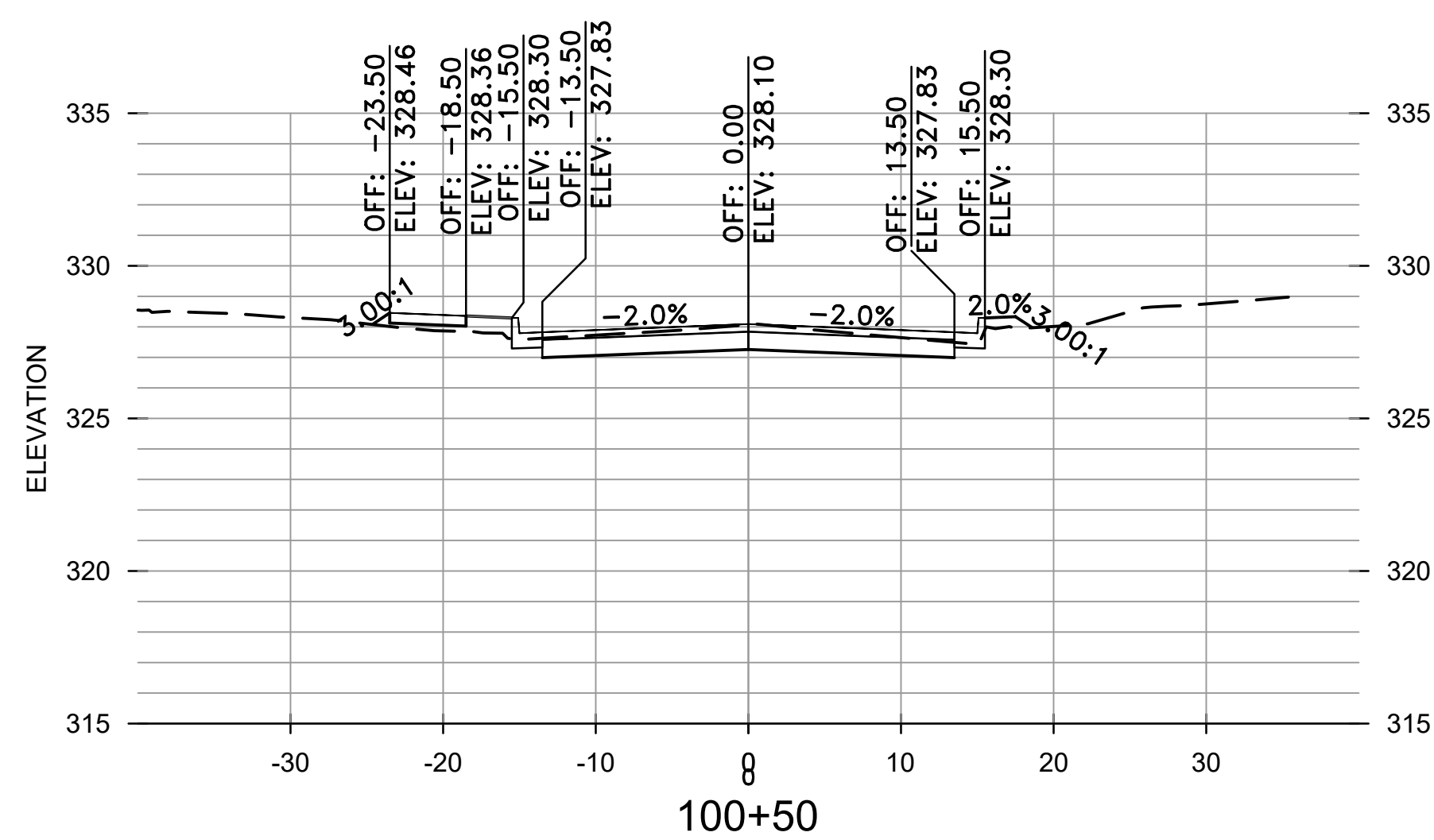
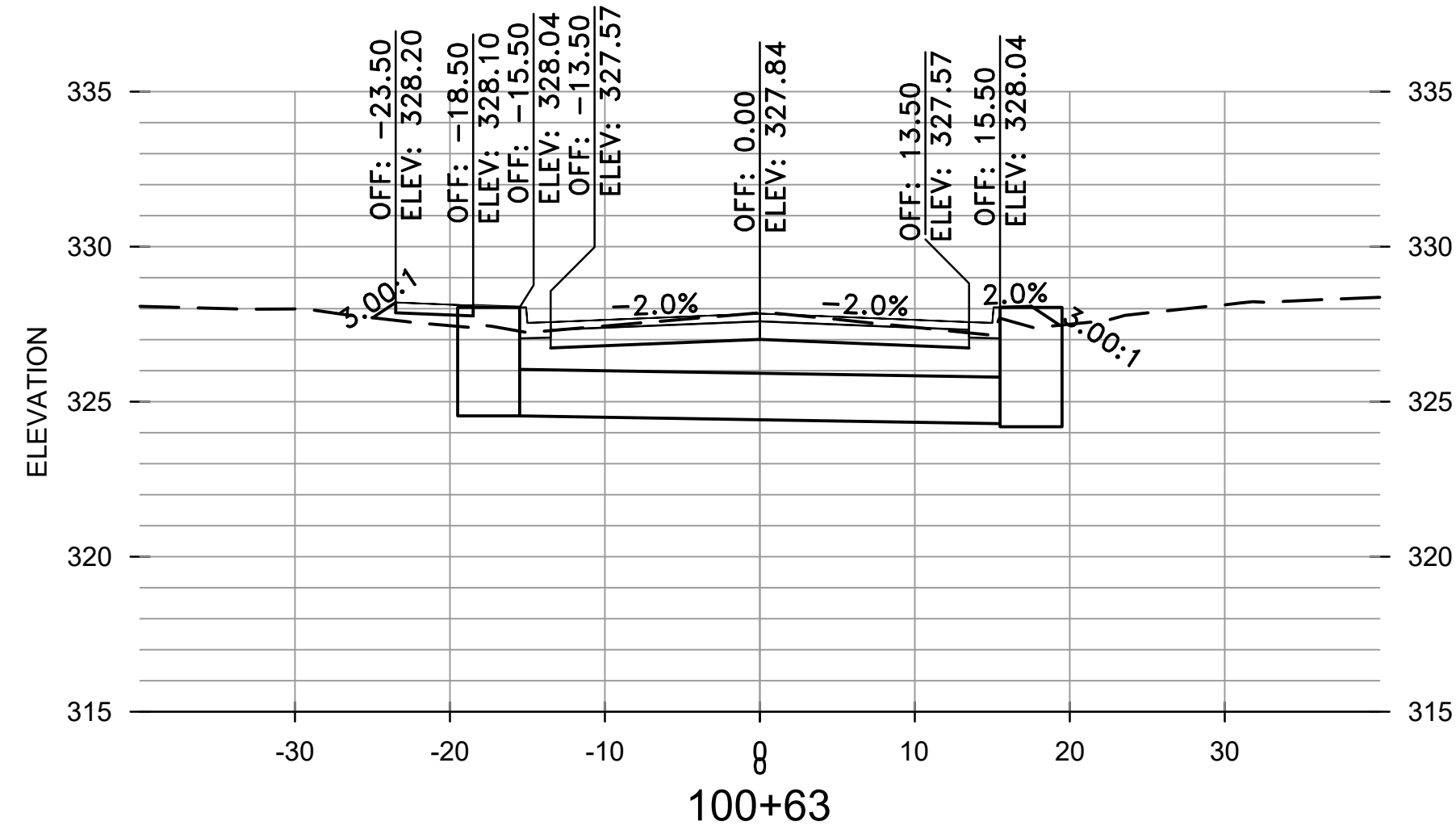
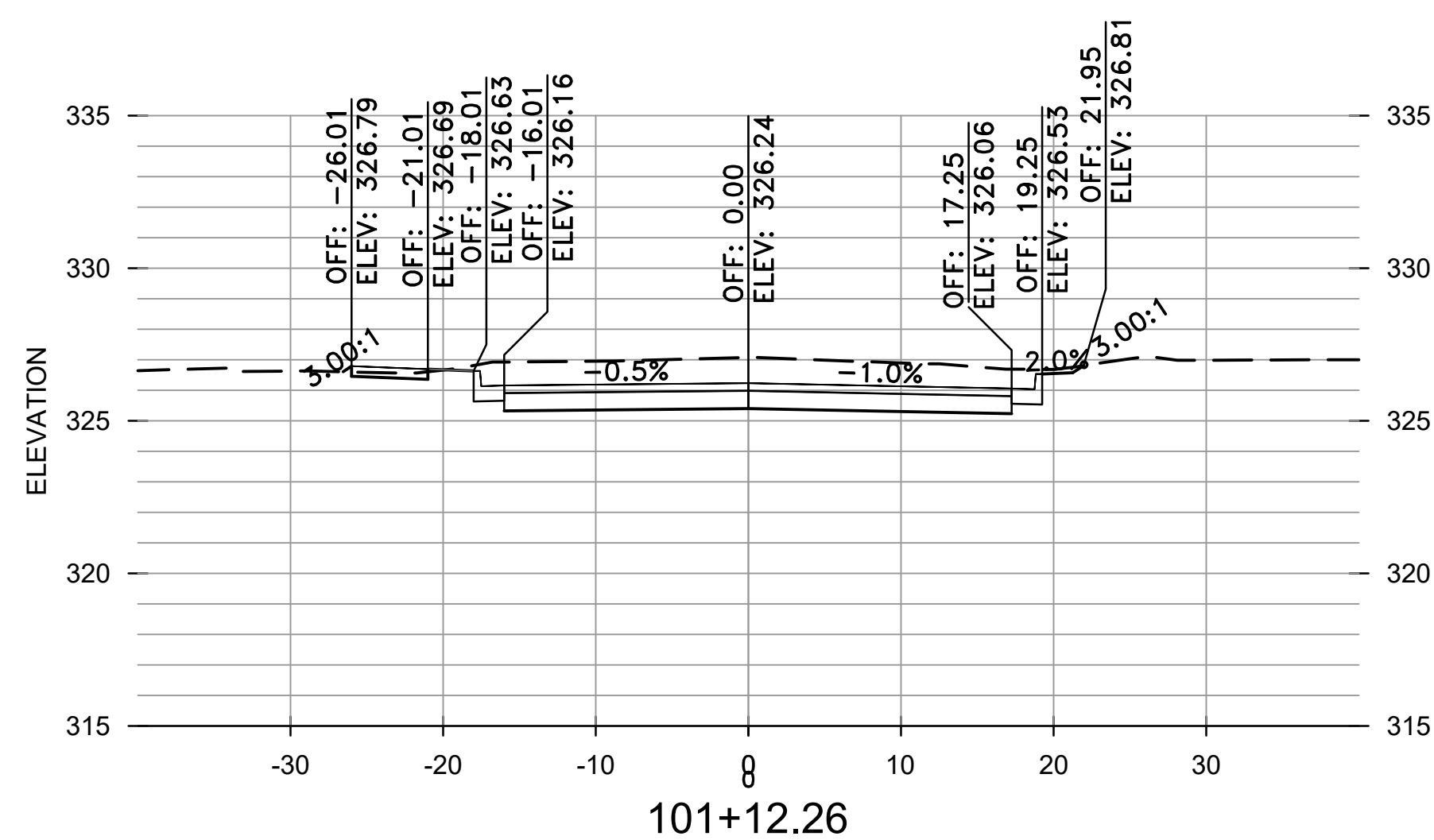
CROSS SECTIONS  
 4TH STREET

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



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 TCP  
 DESIGNED  
 RCC  
 CHECKED  
 RCC  
 DATE  
 10-11-2024  
 SCALE  
 H: 1"=10'  
 V: 1"=5'  
 PROJECT NO.  
 03-17-DR-107  
 SHEET NO.  
**C29**



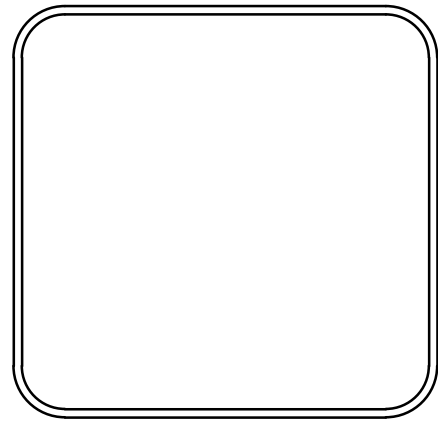


REVISIONS	DATE

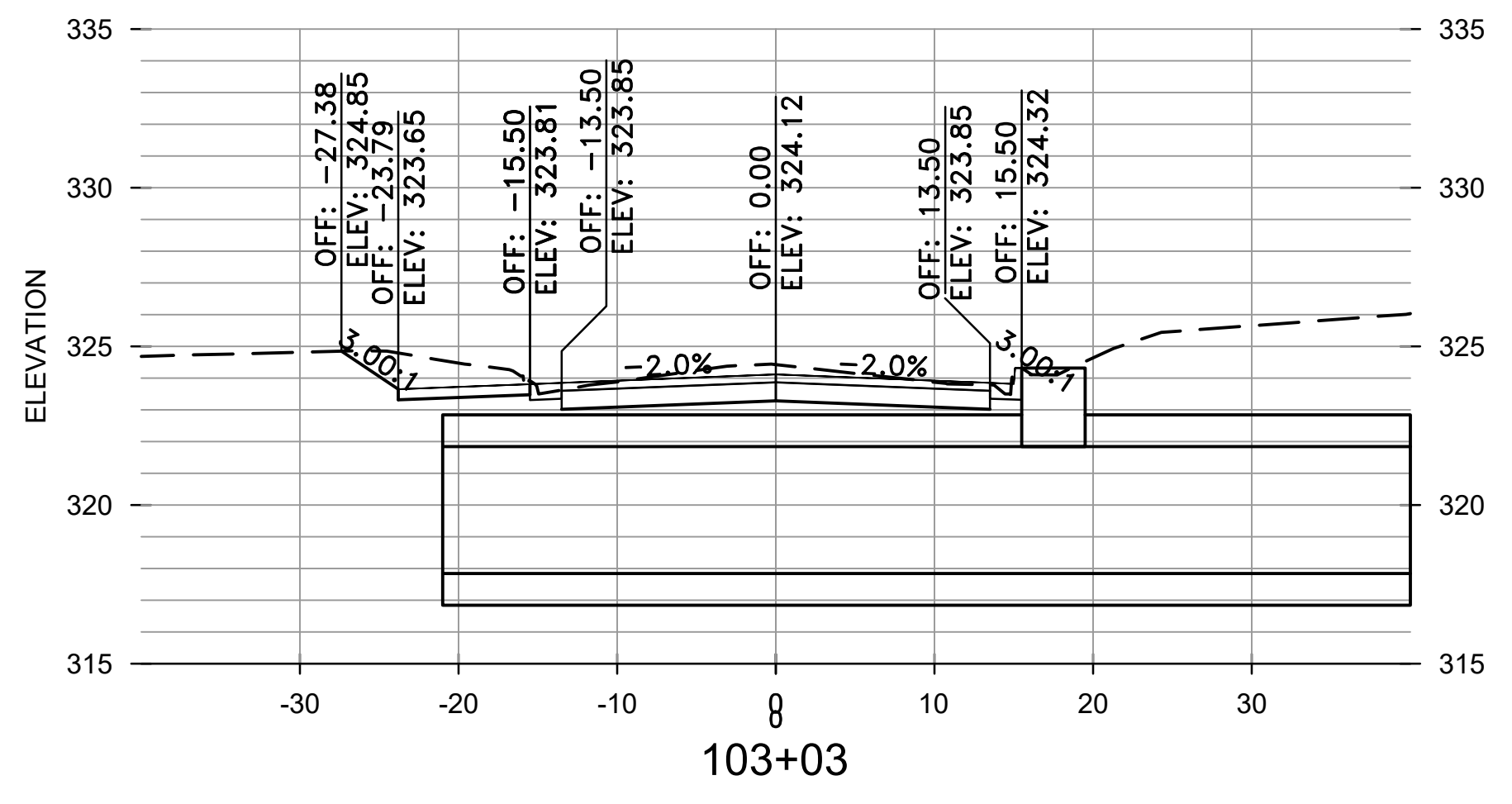
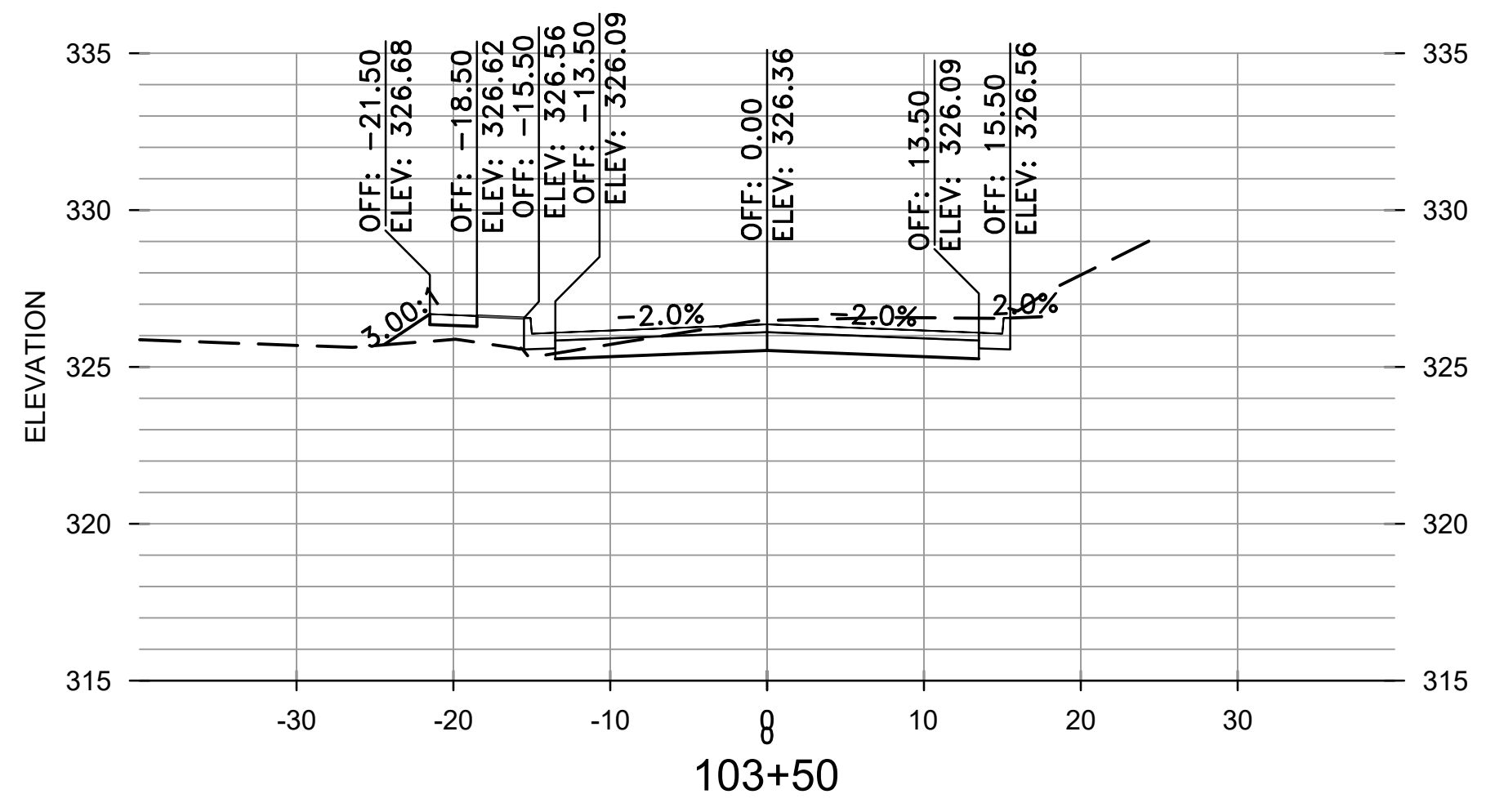
CITY OF LITTLE ROCK, ARKANSAS  
 WEST 4TH STREET DRAINAGE  
 AND STREET IMPROVEMENTS

CROSS SECTIONS  
 VALMAR STREET

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



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 RCC  
 DATE  
 10-11-2024  
 SCALE  
 H: 1"=10'  
 V: 1"=5'  
 PROJECT NO.  
 03-17-DR-107  
 SHEET NO.  
 C30

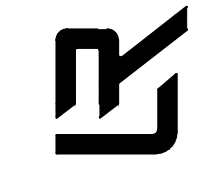
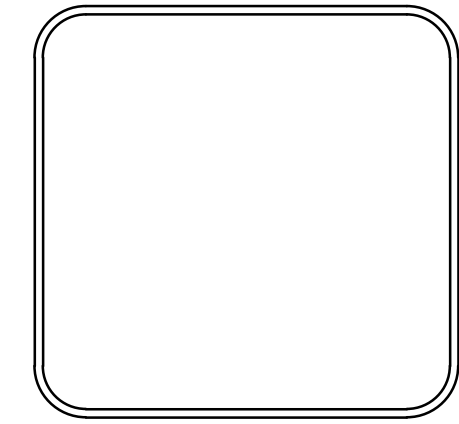


REVISIONS	DATE

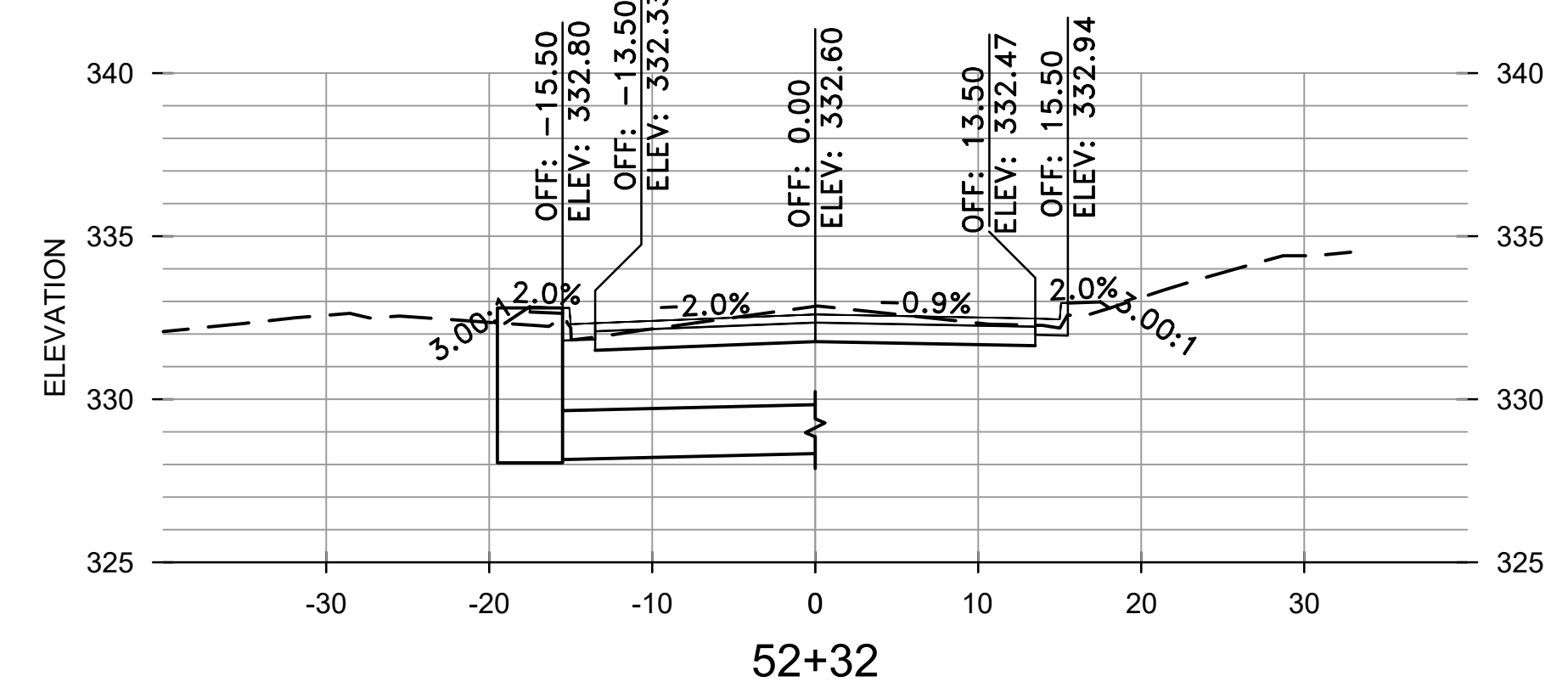
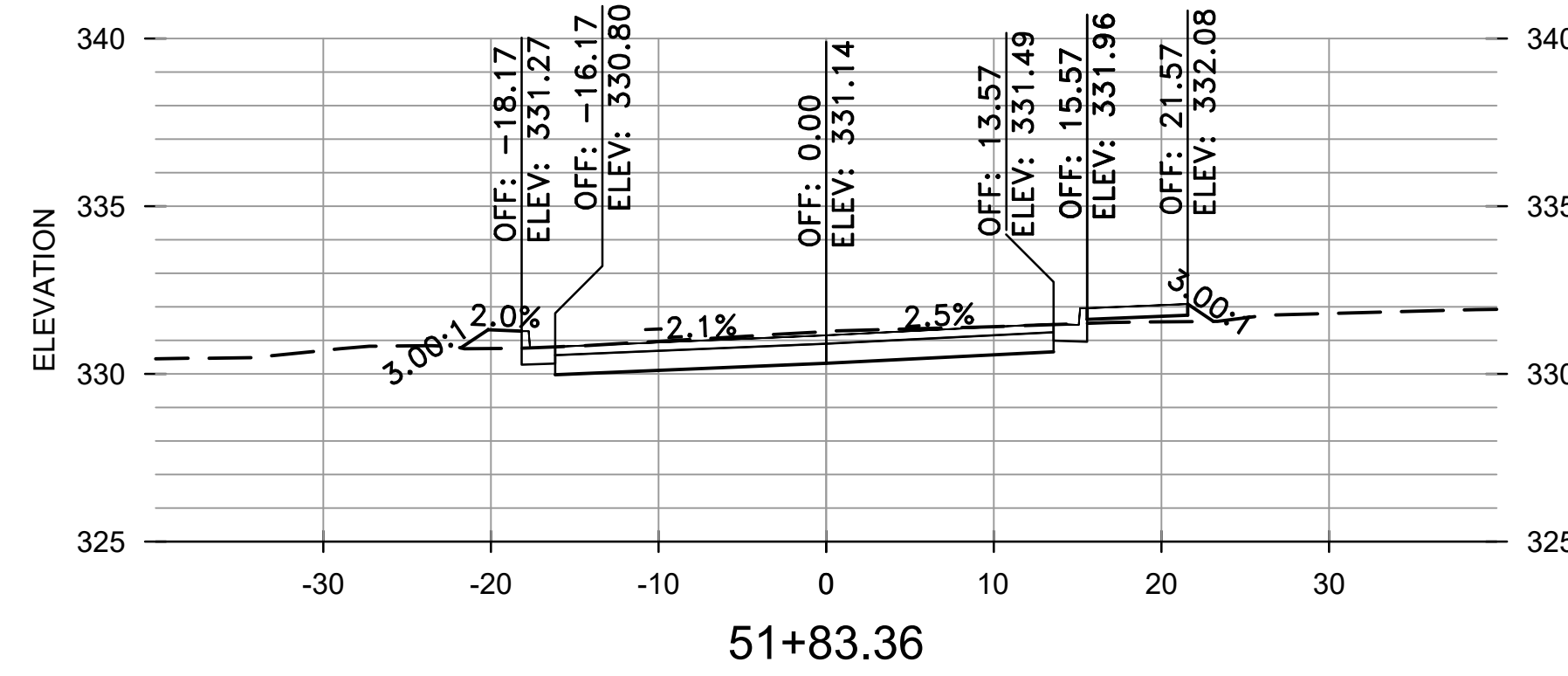
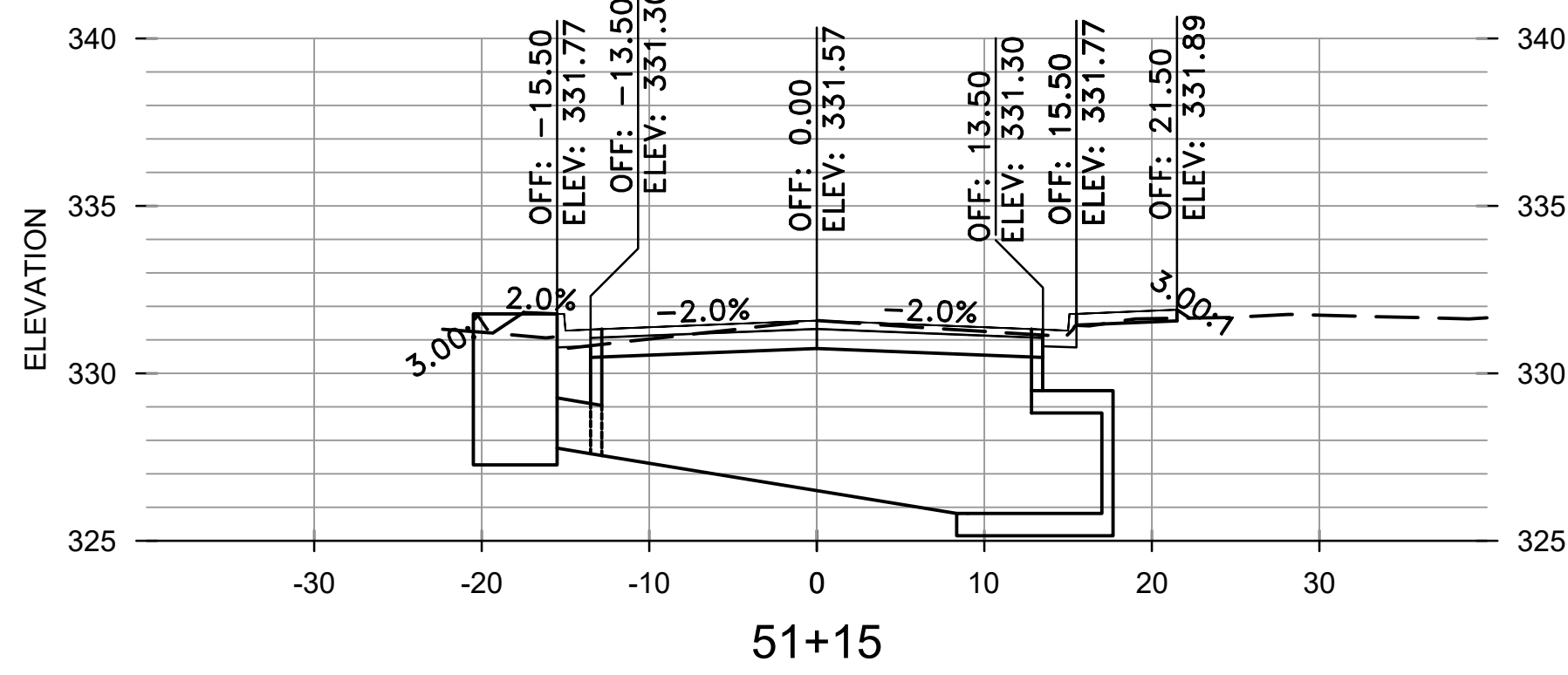
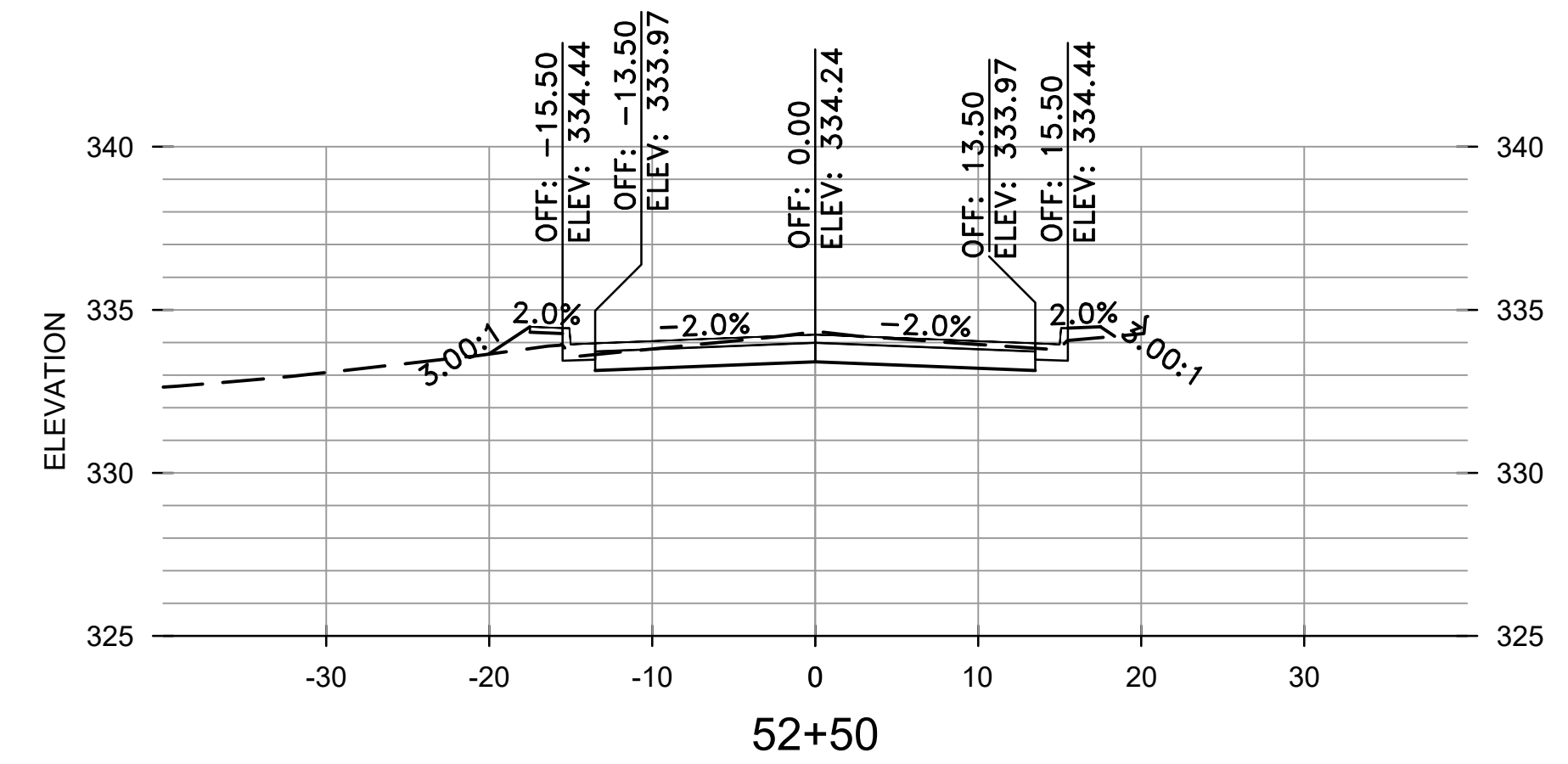
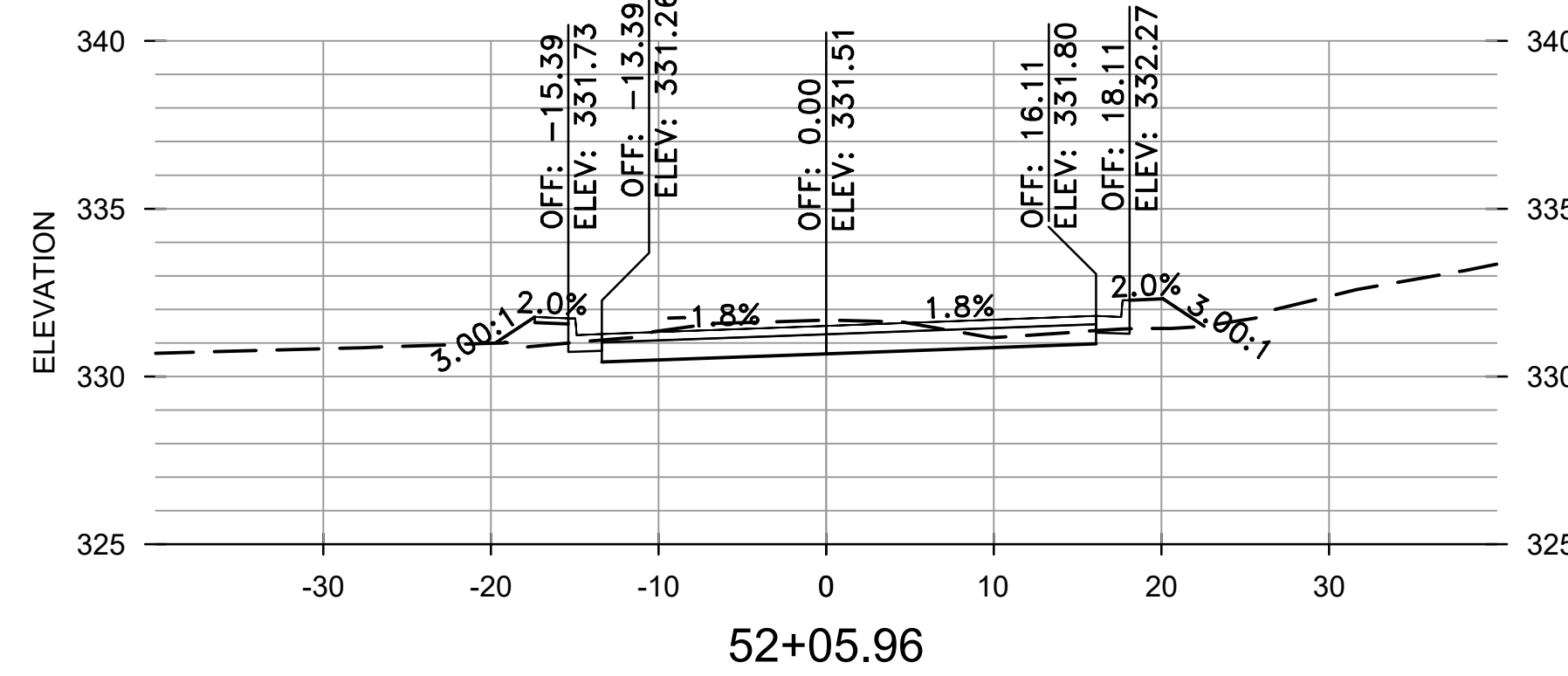
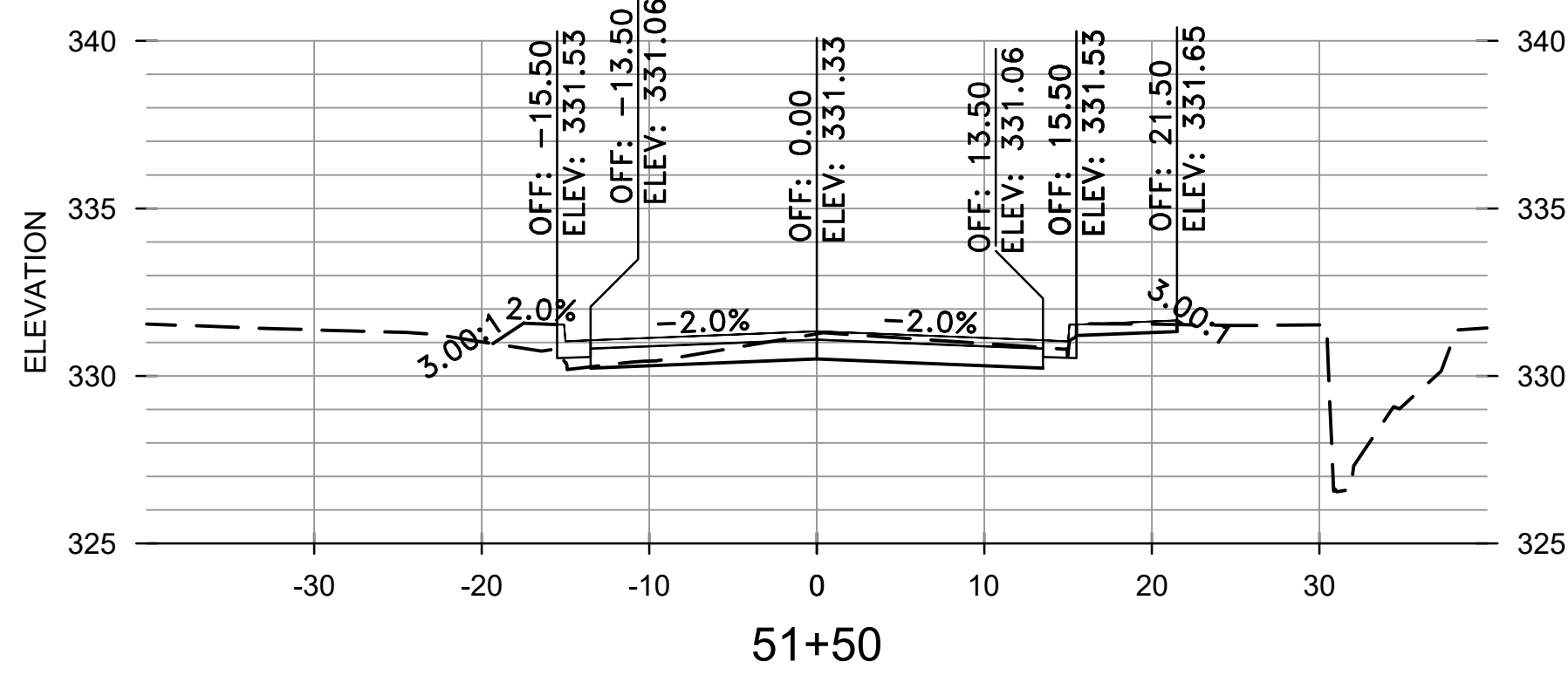
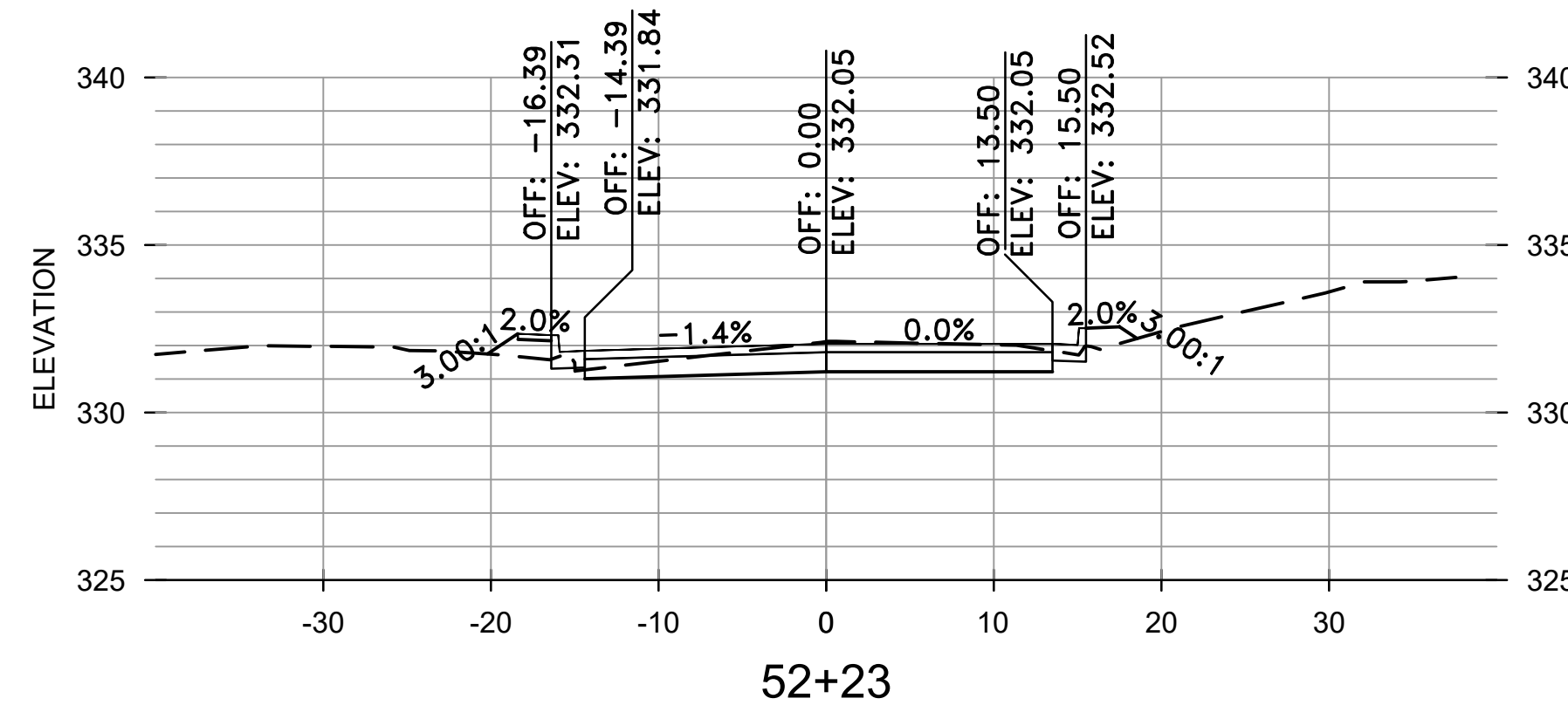
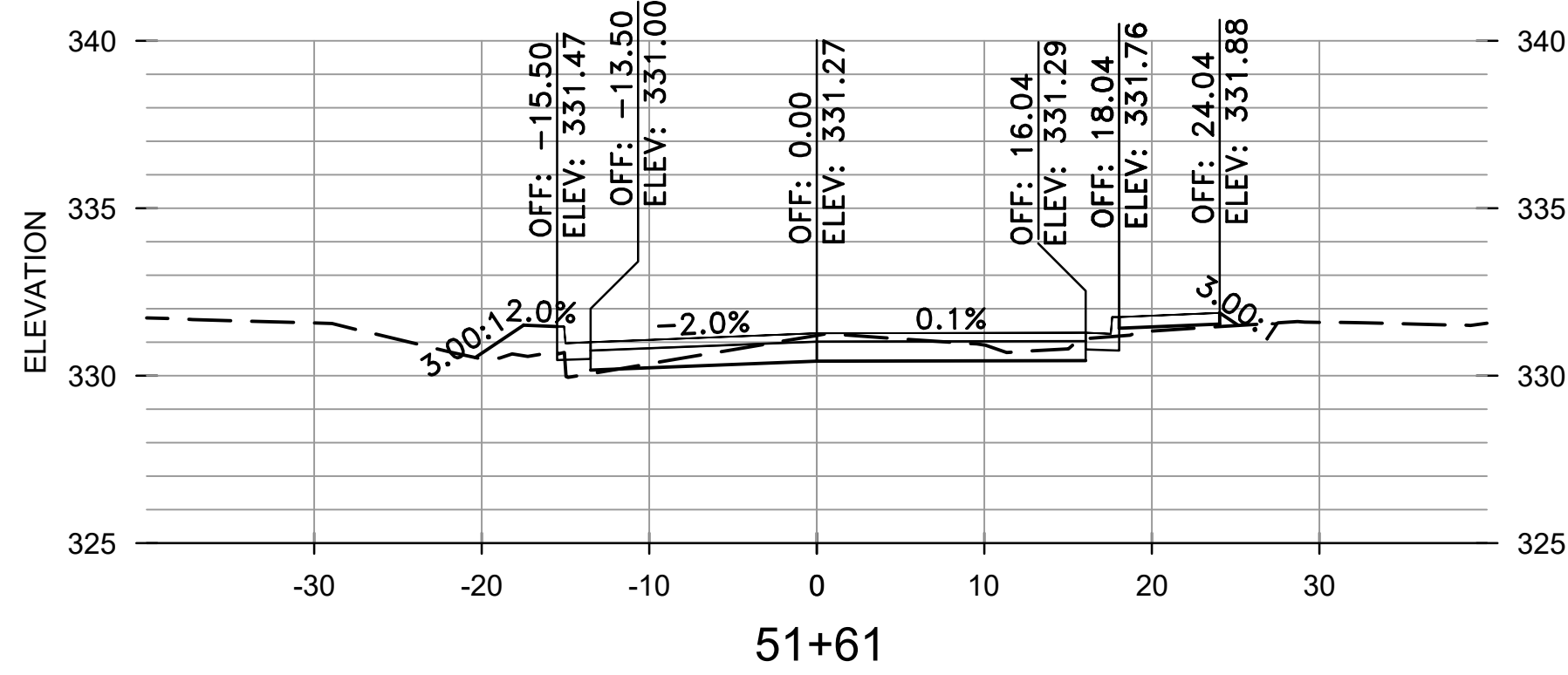
CITY OF LITTLE ROCK, ARKANSAS  
 WEST 4TH STREET DRAINAGE  
 AND STREET IMPROVEMENTS

CROSS SECTIONS  
 VALMAR STREET

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

DRAWN BY TCP
DESIGNED RCC
CHECKED RCC
DATE 10-11-2024
SCALE H: 1"=10' V: 1"=5'
PROJECT NO. 03-17-DR-107
SHEET NO. C31

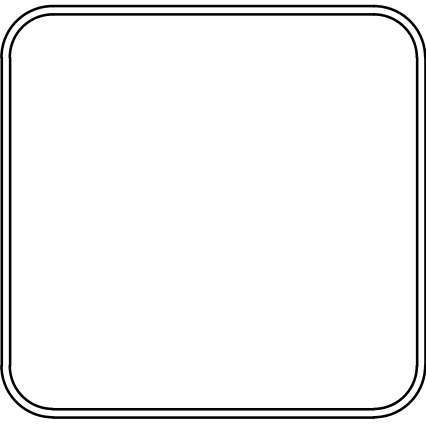


REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 WEST 4TH STREET DRAINAGE  
 AND STREET IMPROVEMENTS

CROSS SECTIONS  
 VALENTINE STREET

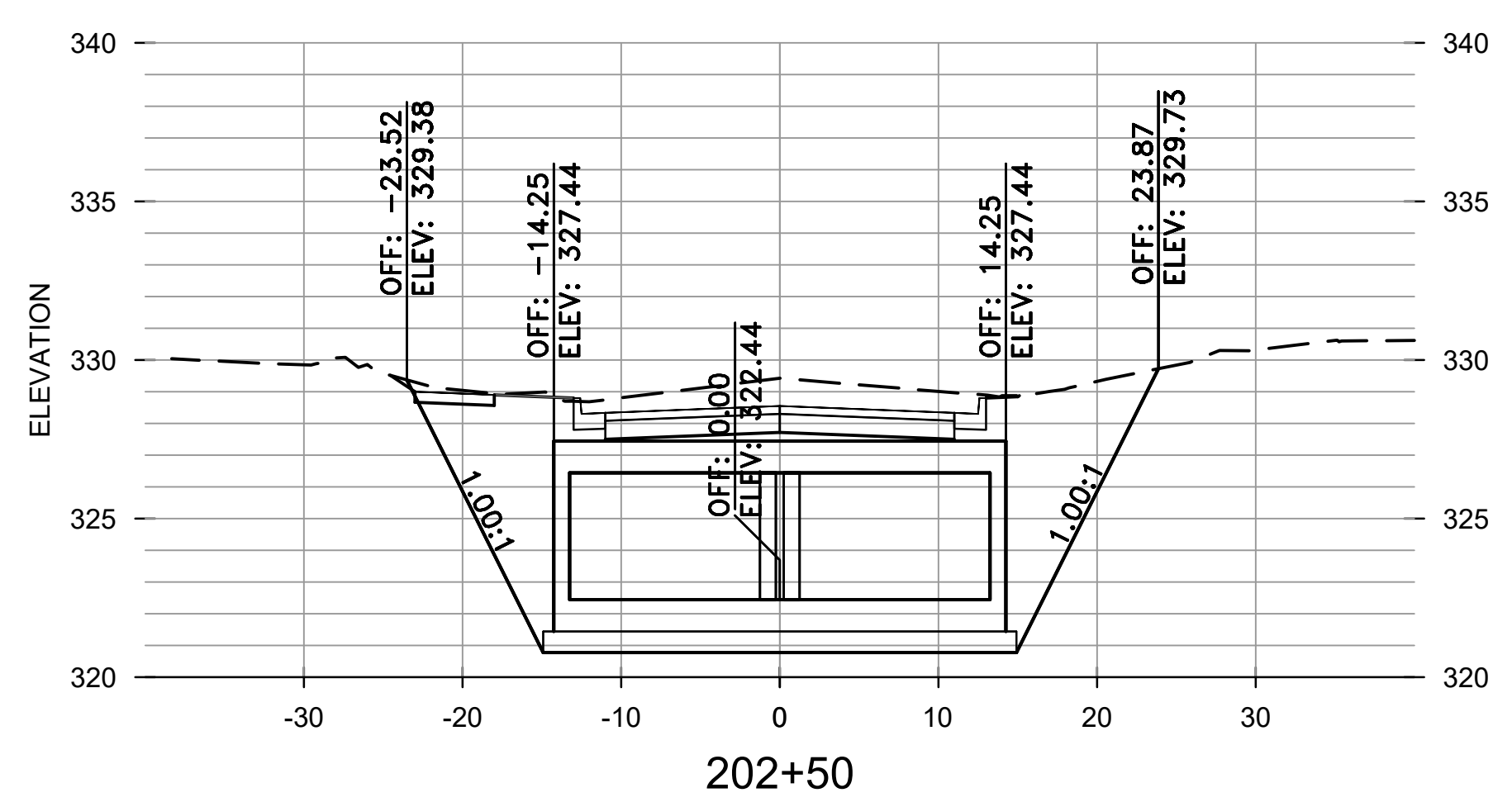
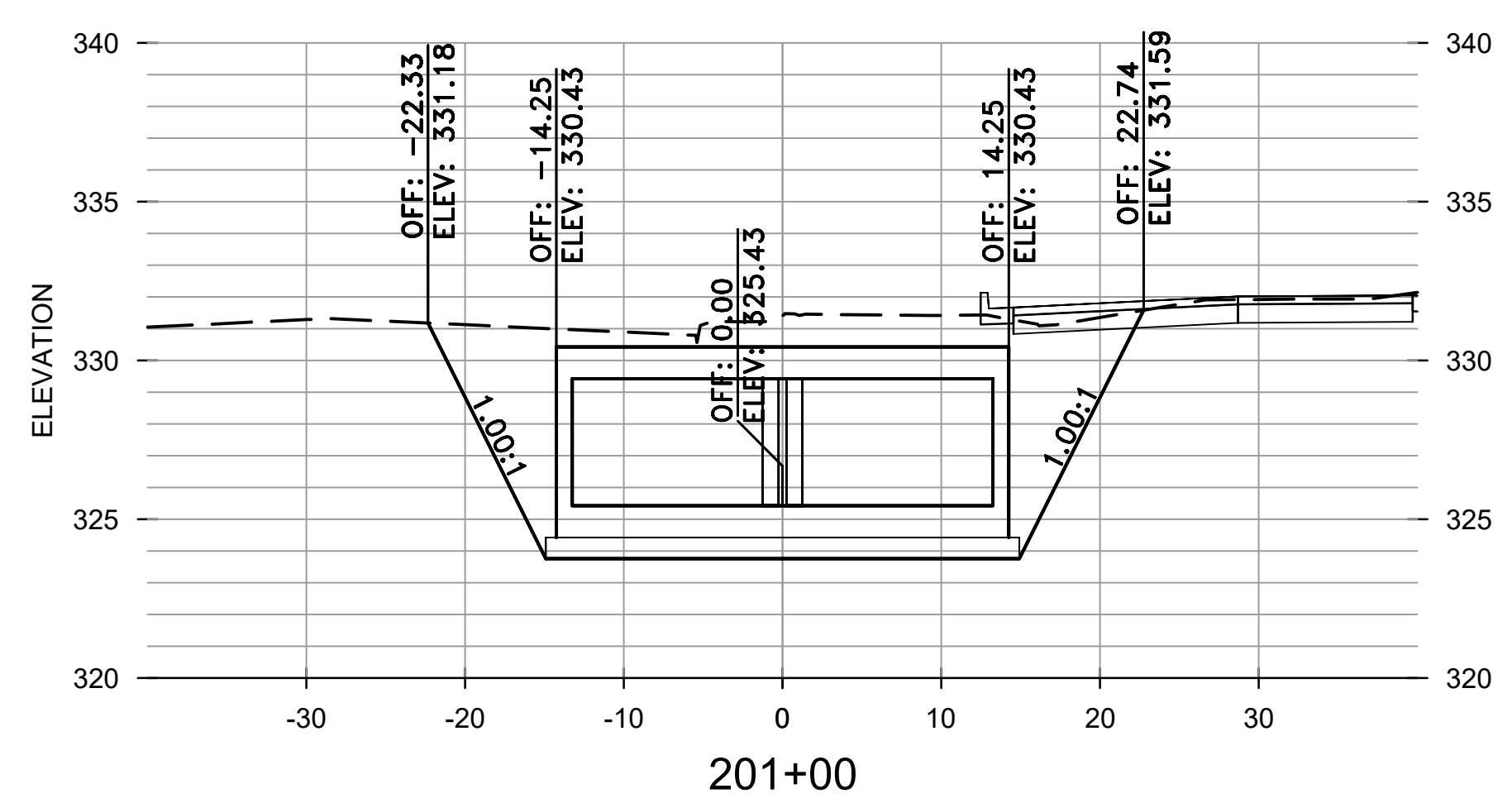
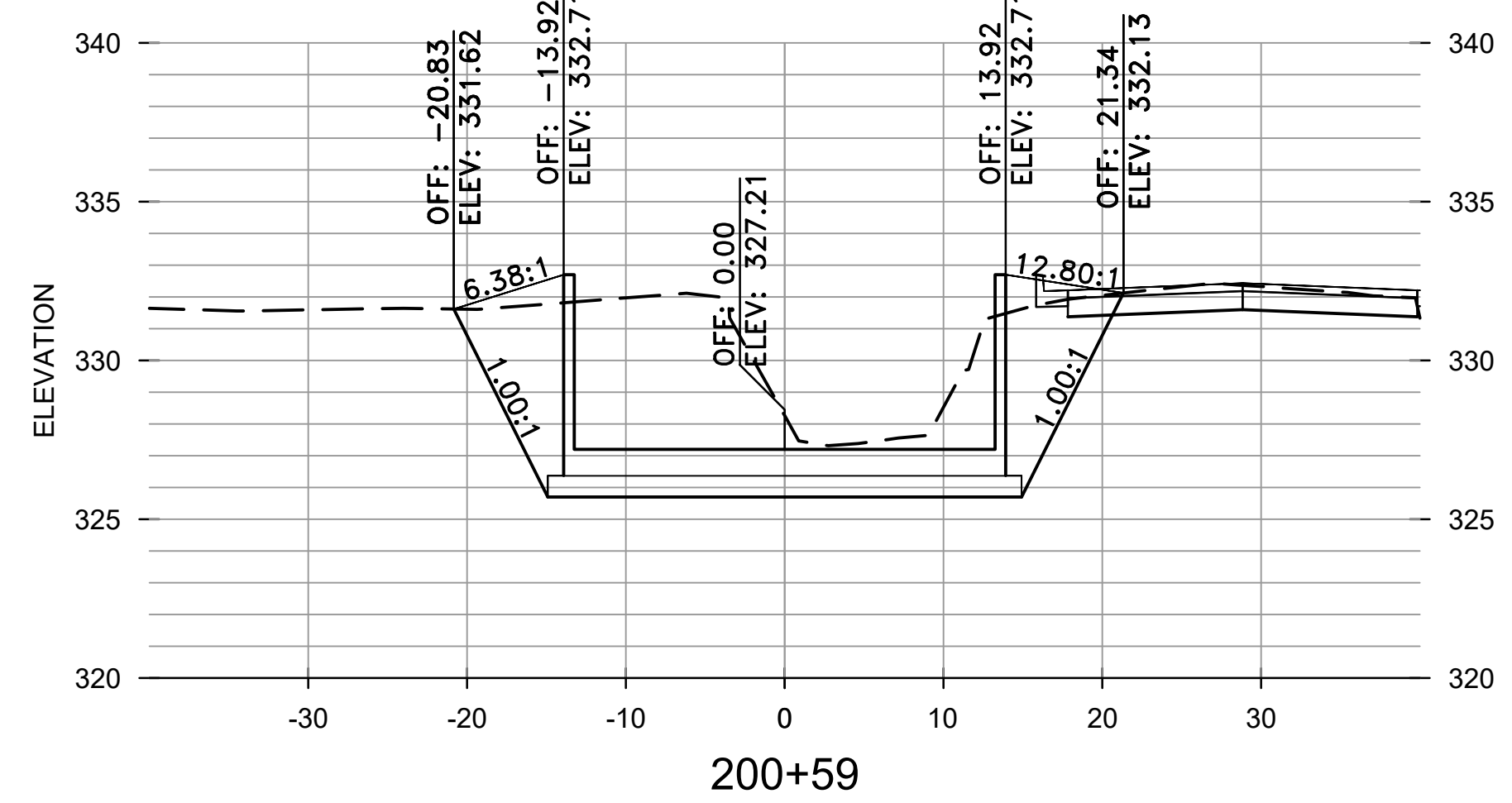
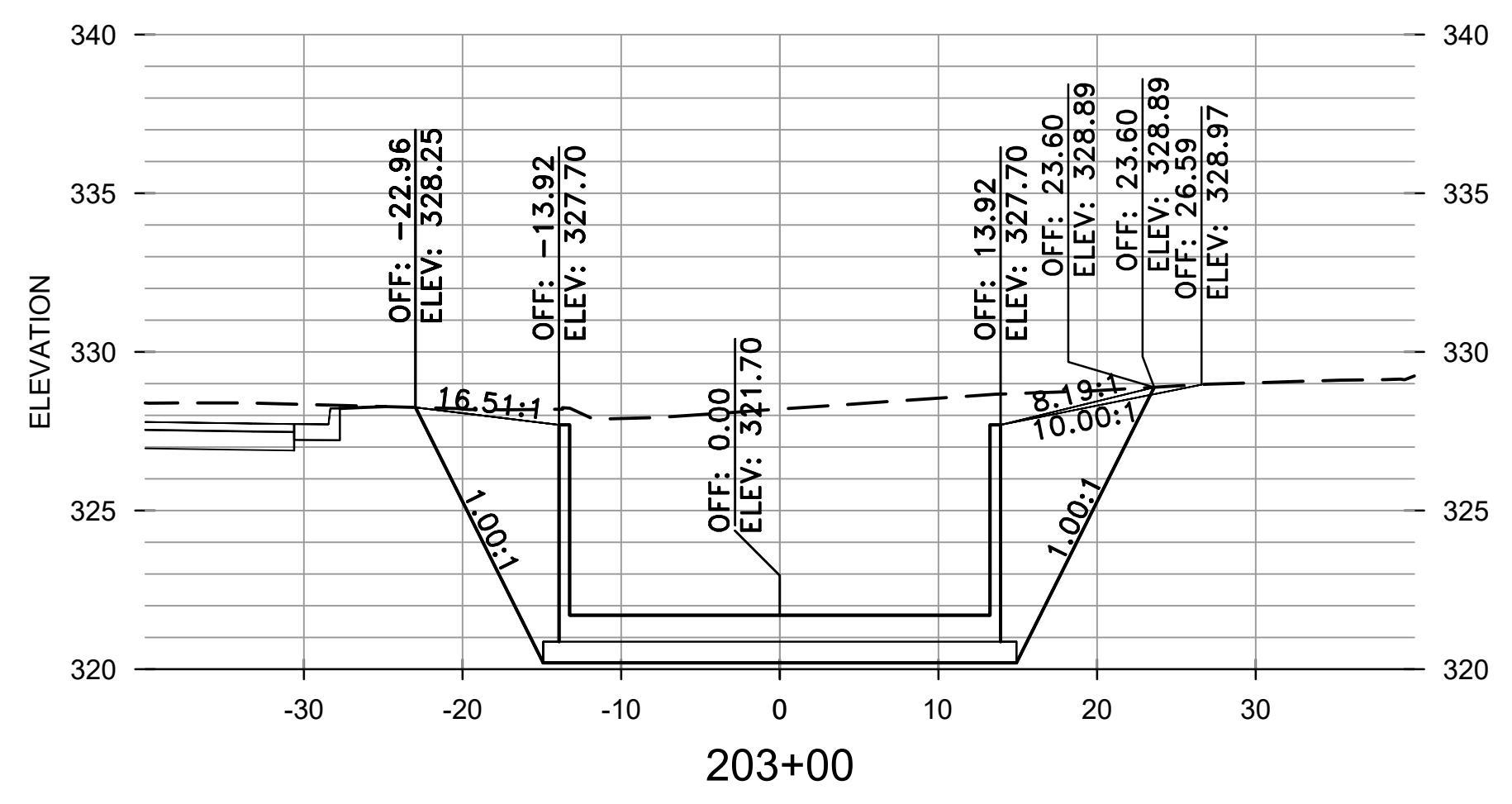
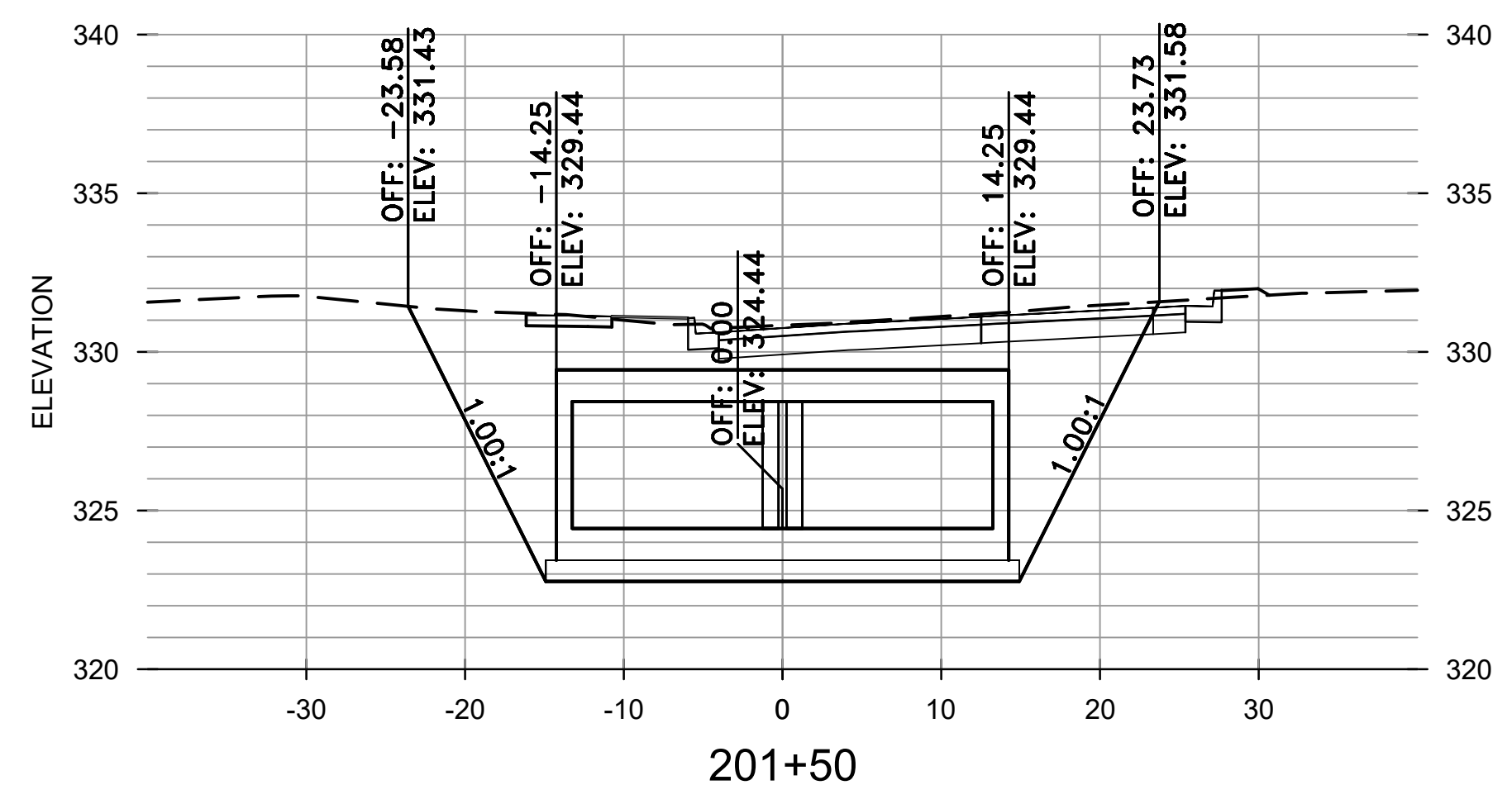
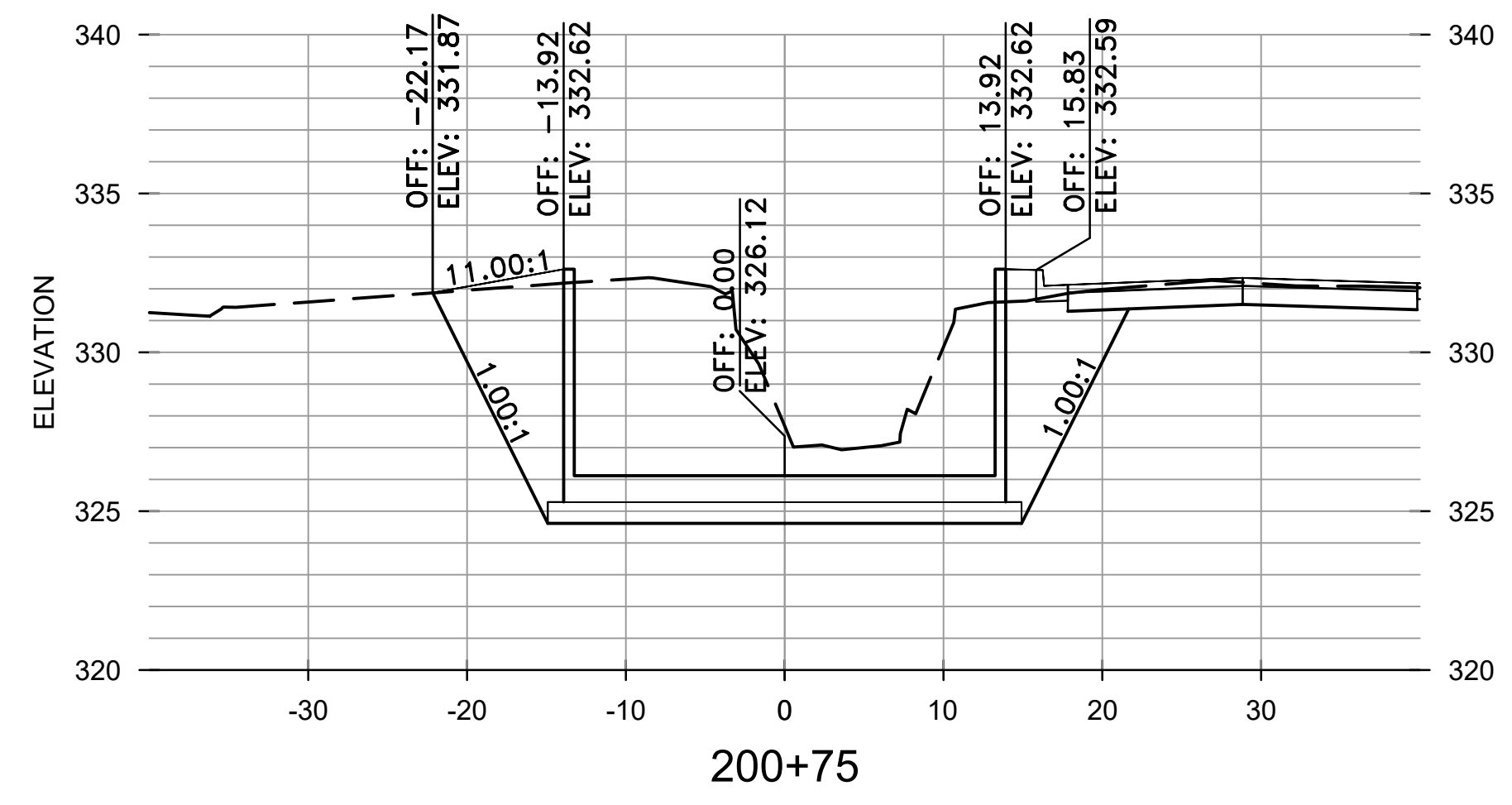
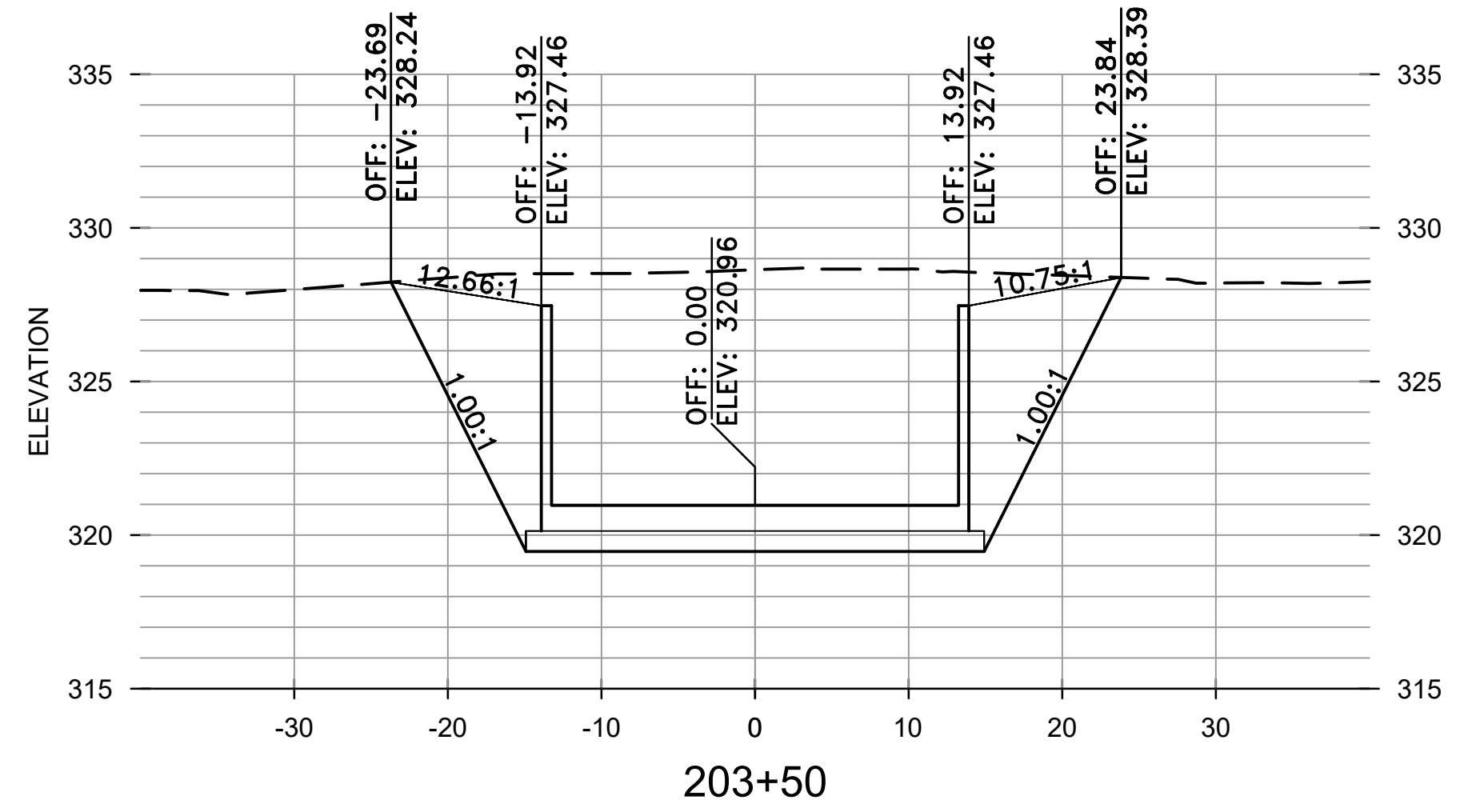
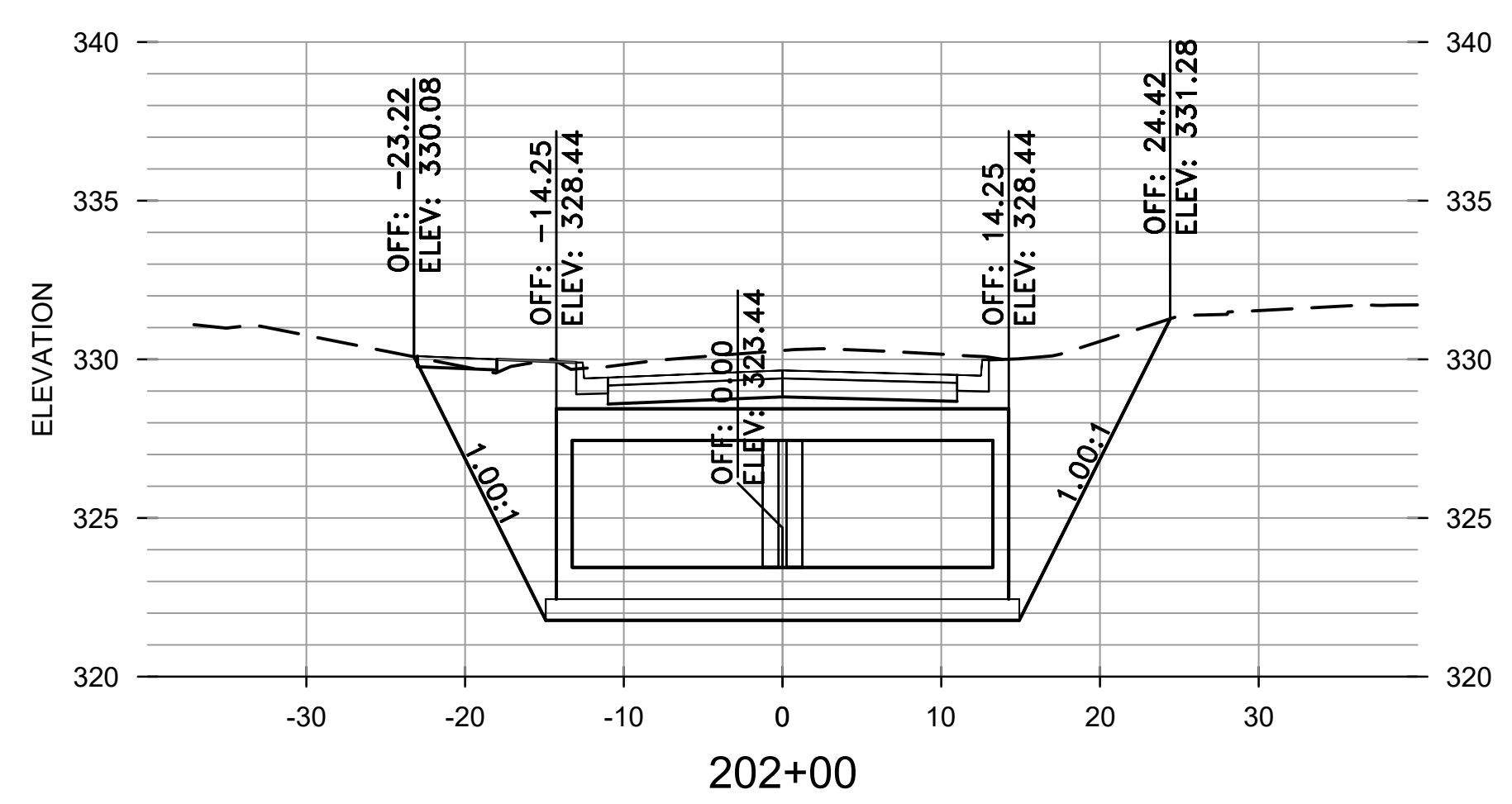
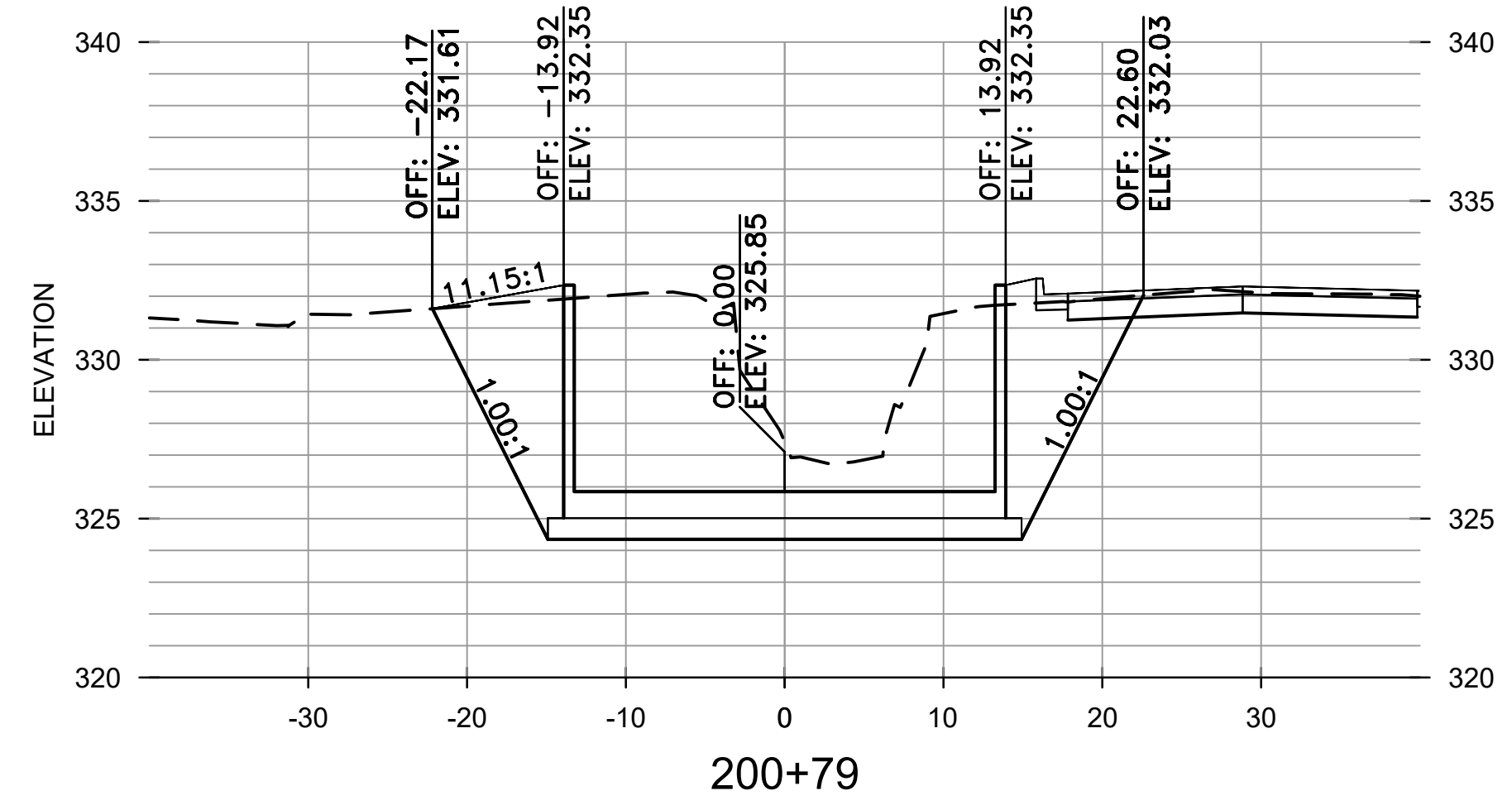
DEPARTMENT OF PUBLIC WORKS  
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 701 W. MARKHAM  
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 DATE  
 10-11-2024  
 SCALE  
 H: 1"=10'  
 V: 1"=5'  
 PROJECT NO.  
 03-17-DR-107  
 SHEET NO.  
 C32



REVISIONS	DATE



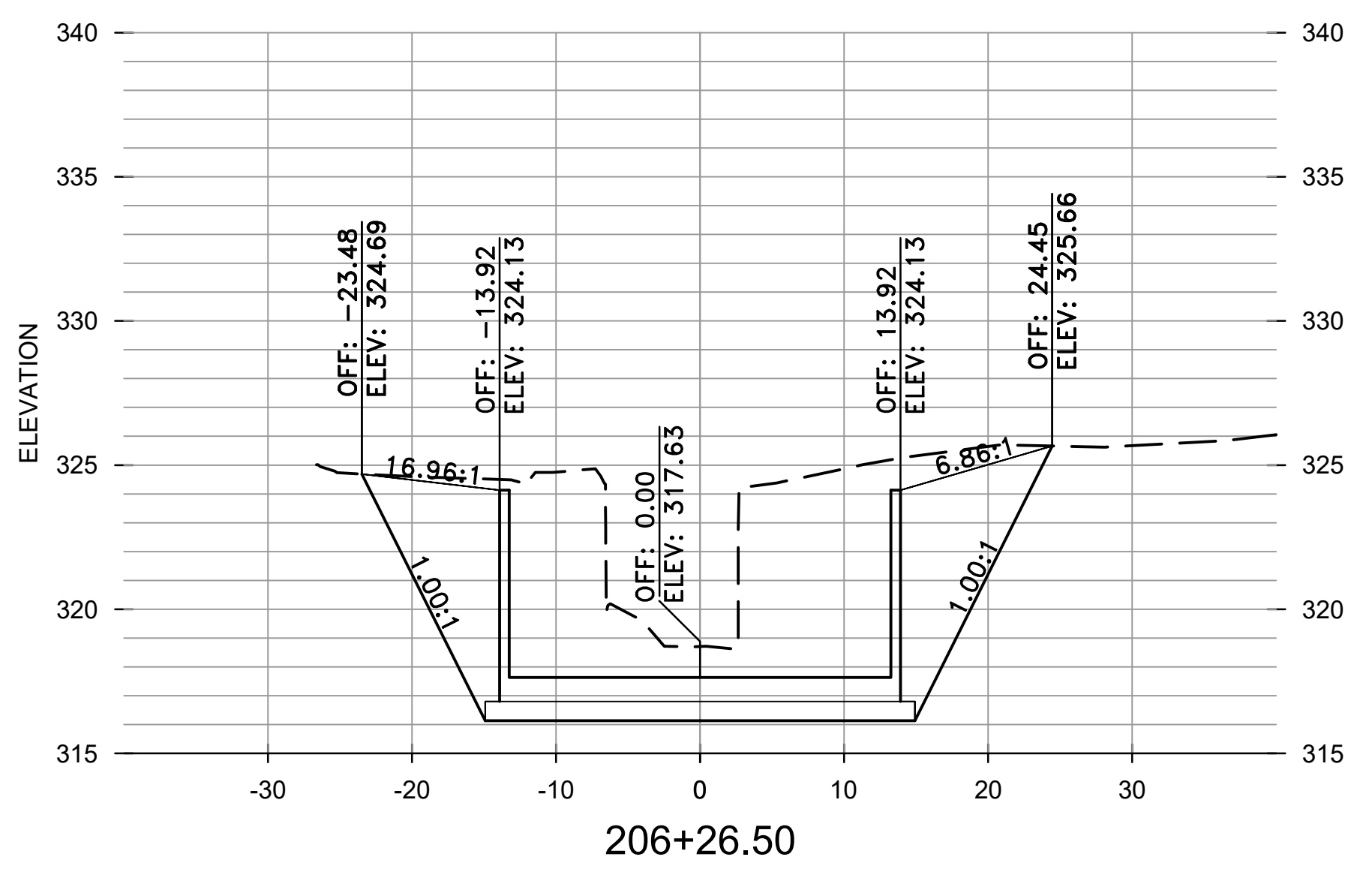
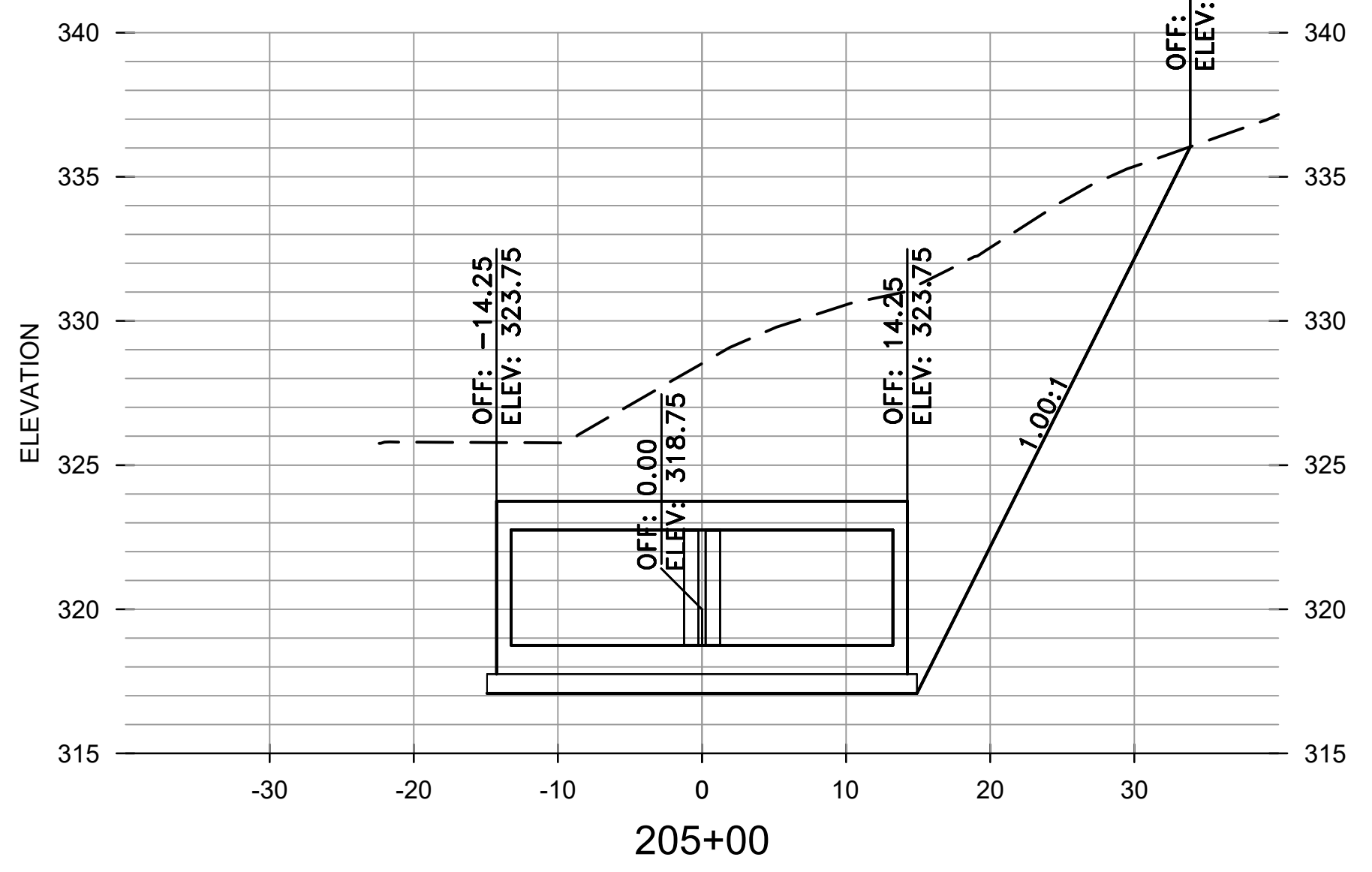
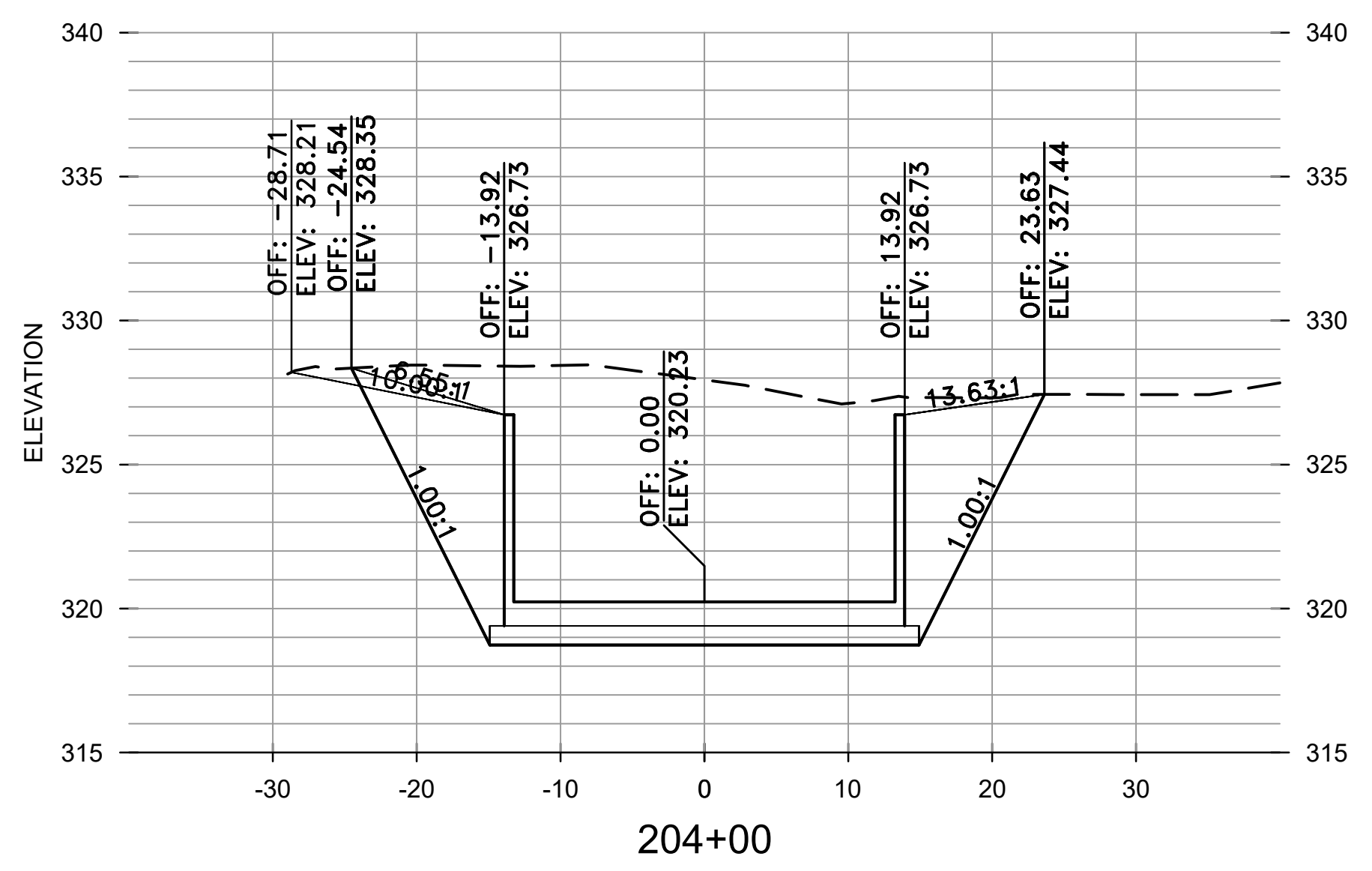
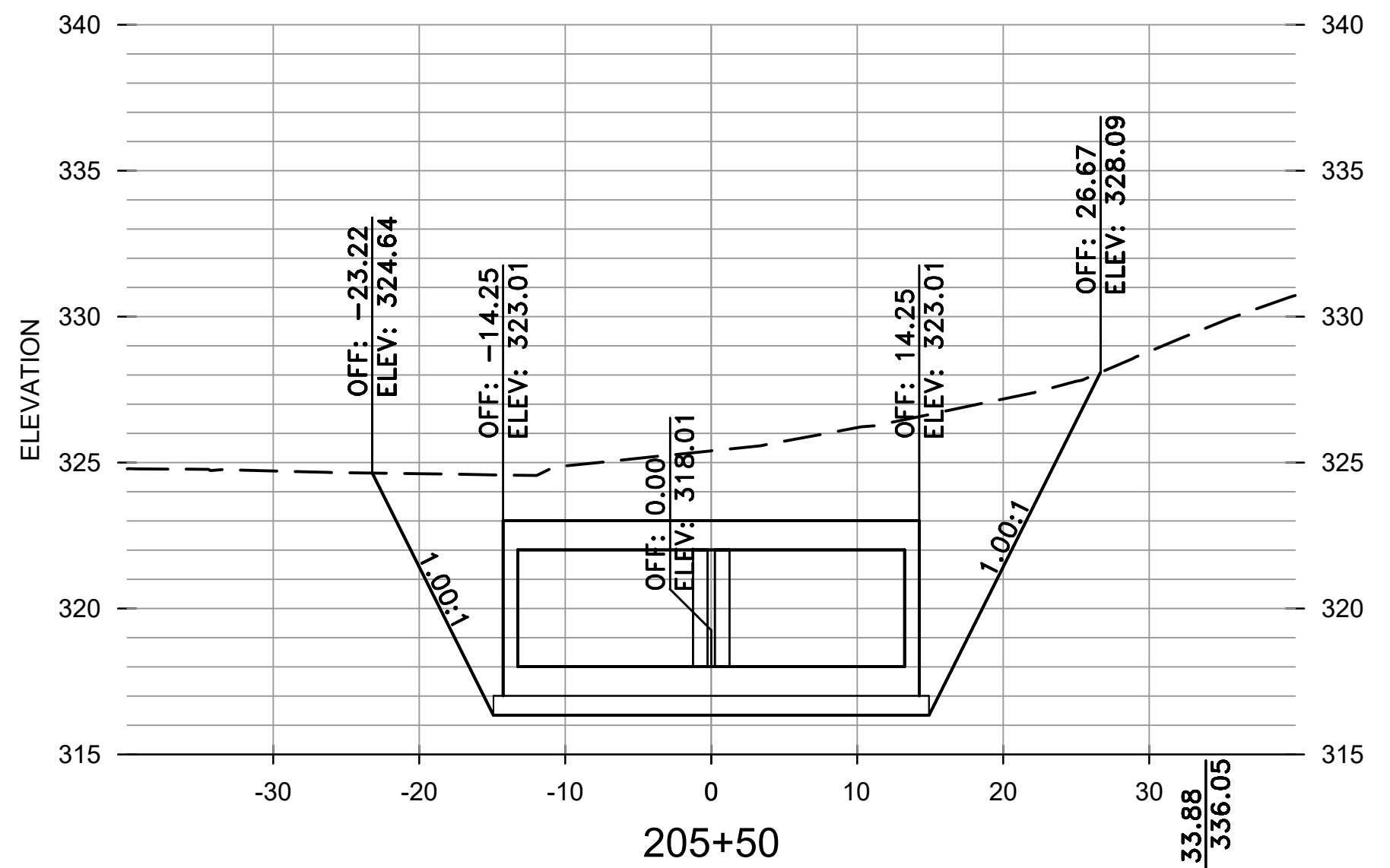
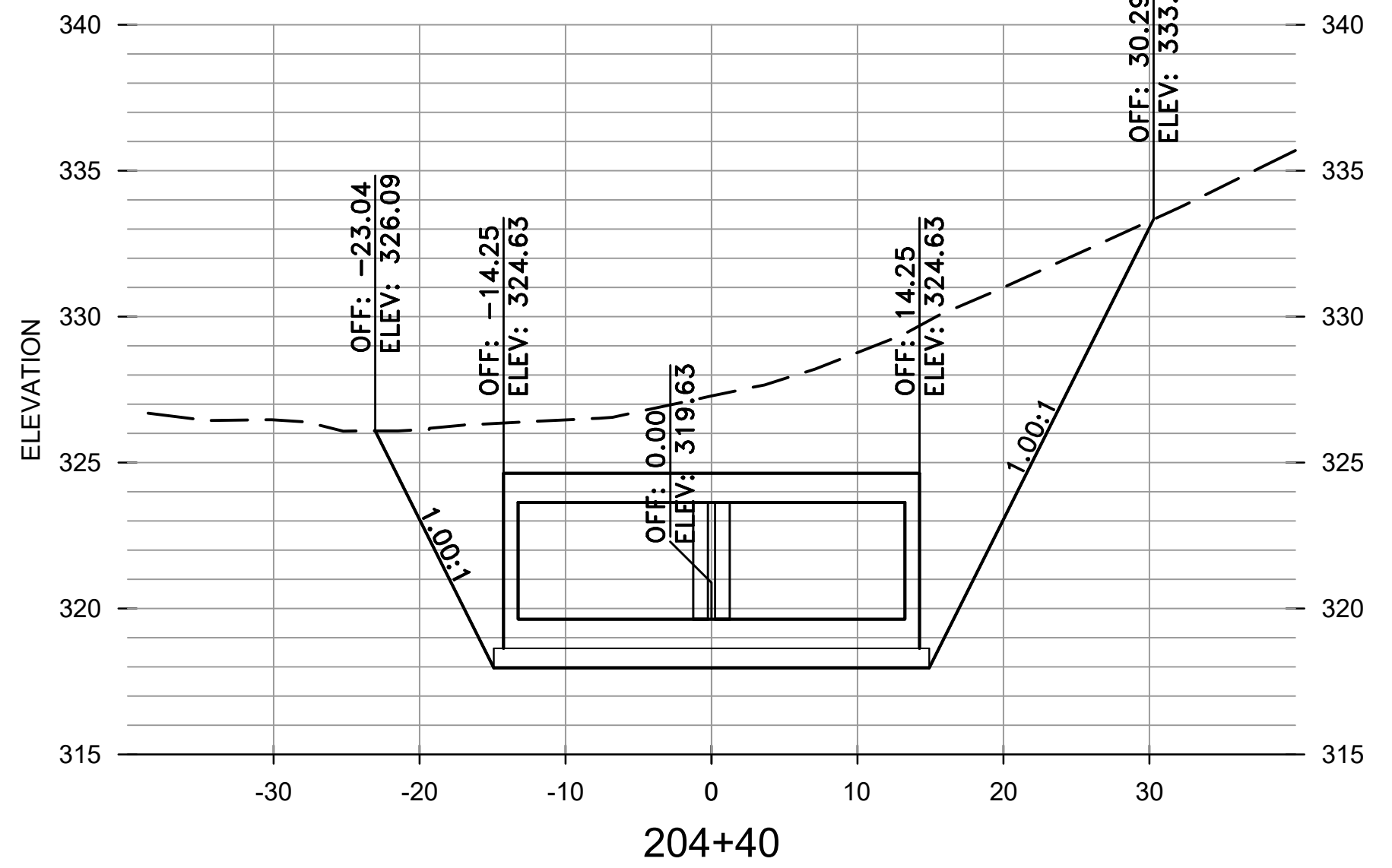
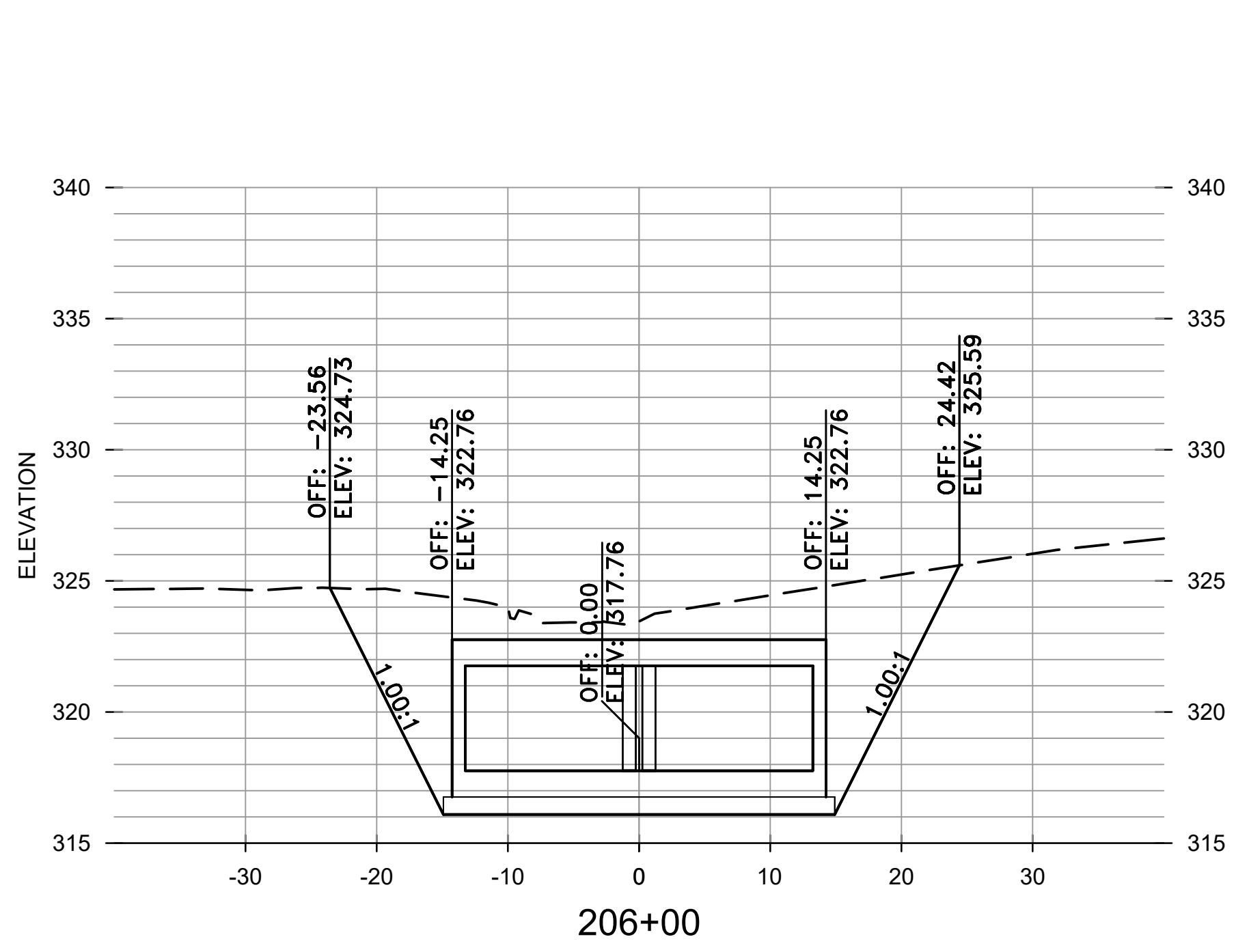
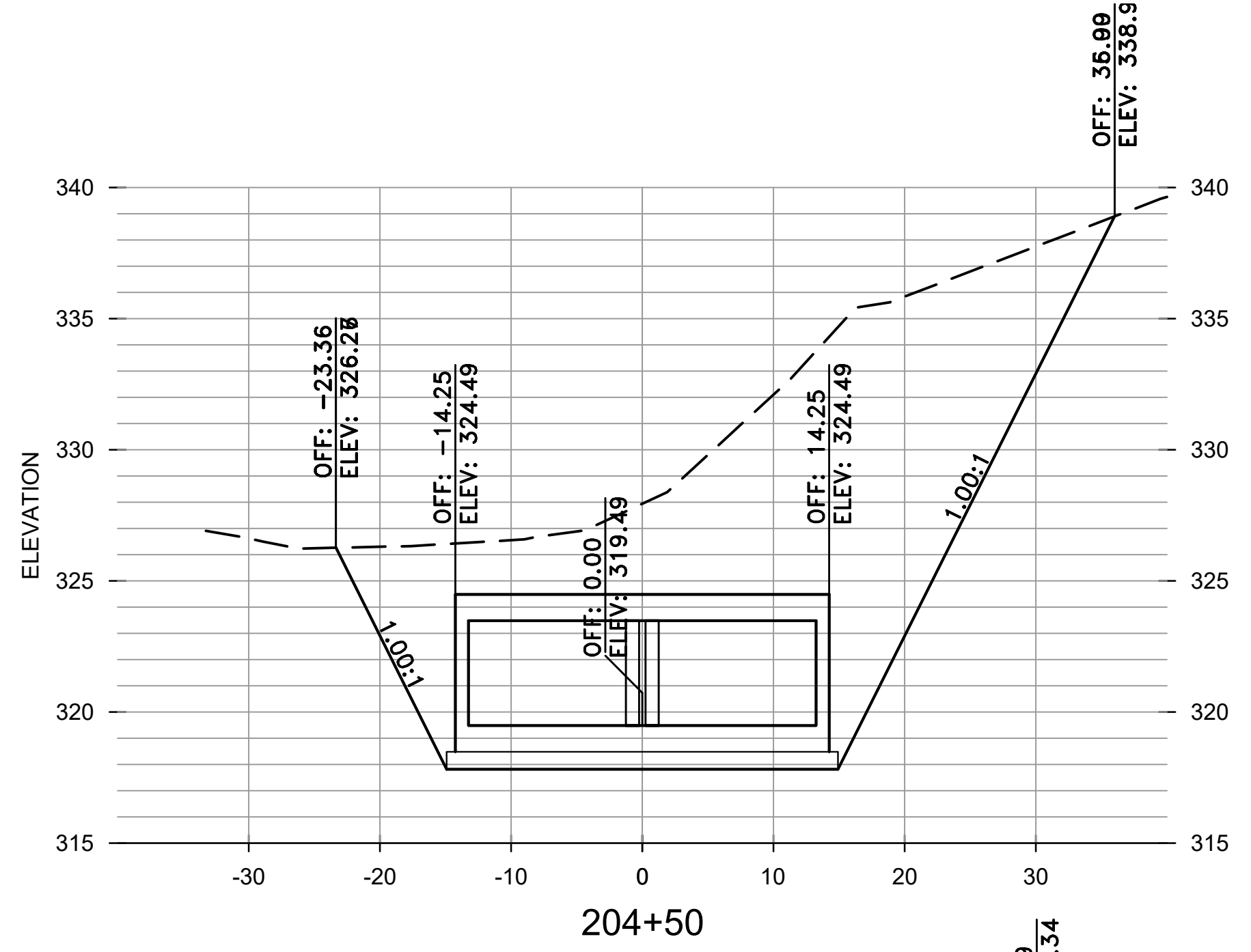
CITY OF LITTLE ROCK, ARKANSAS  
WEST 4TH STREET DRAINAGE  
AND STREET IMPROVEMENTS

CROSS SECTIONS  
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SHEET NO.  
C33

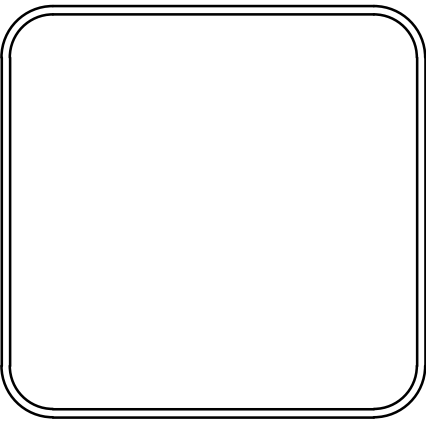


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CITY OF LITTLE ROCK, ARKANSAS  
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