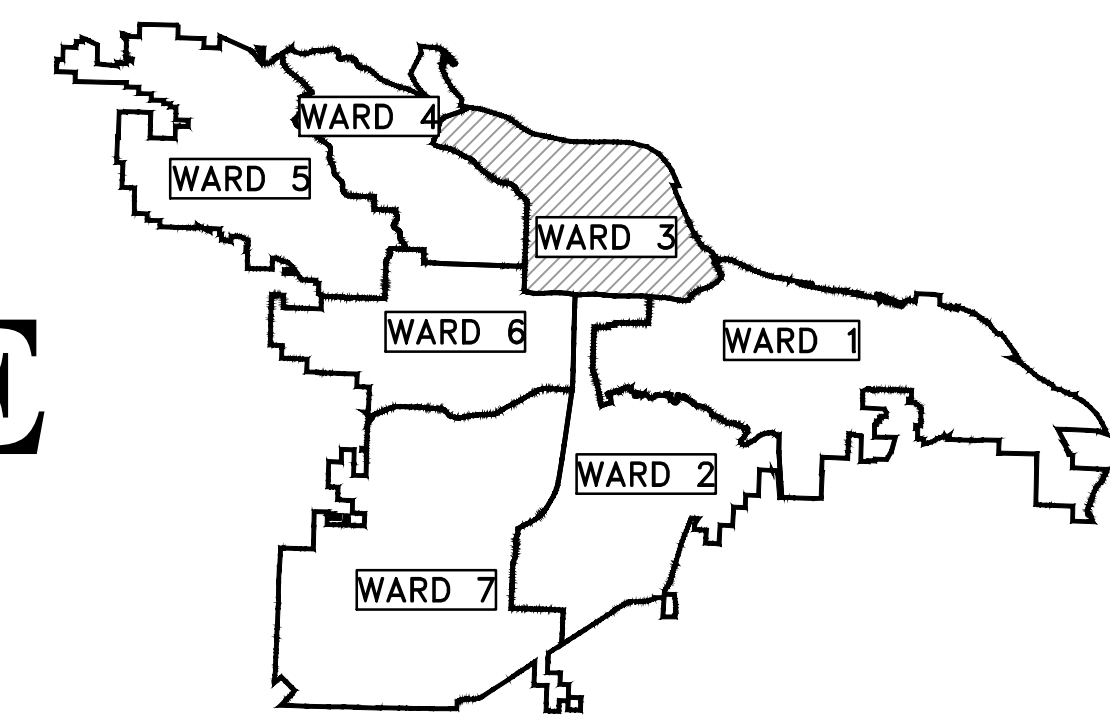


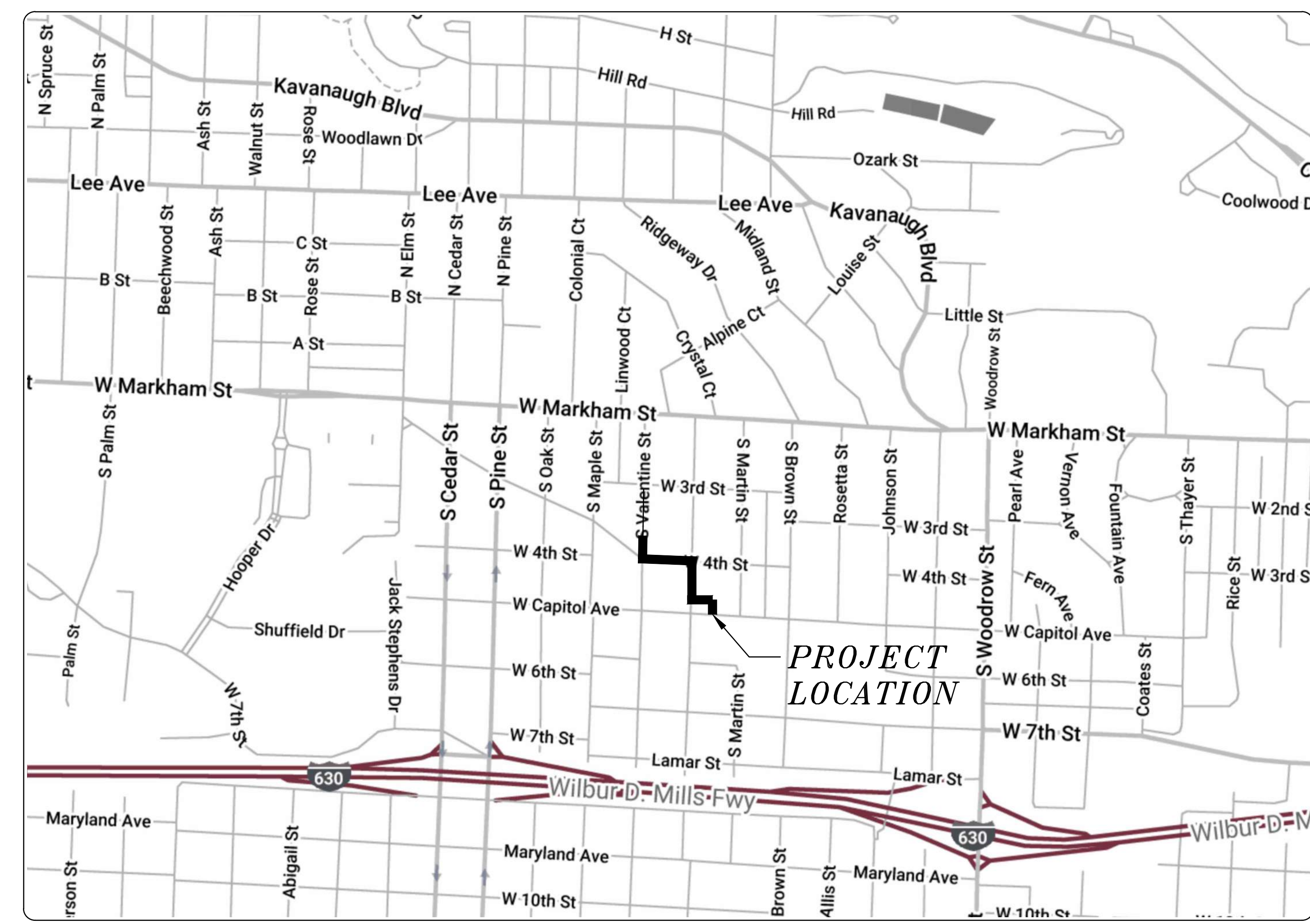
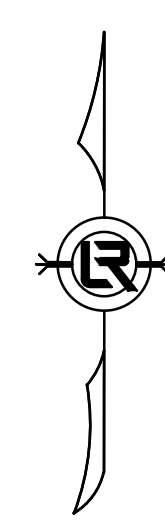
CLR PROJECT 03-17-DR-107

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



100% SUBMITTAL



**2019-2021
BOND PROGRAM**

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



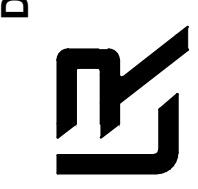
4701 Northshore Drive
North Little Rock, AR 72118
501-376-3633

REVISIONS	DATE

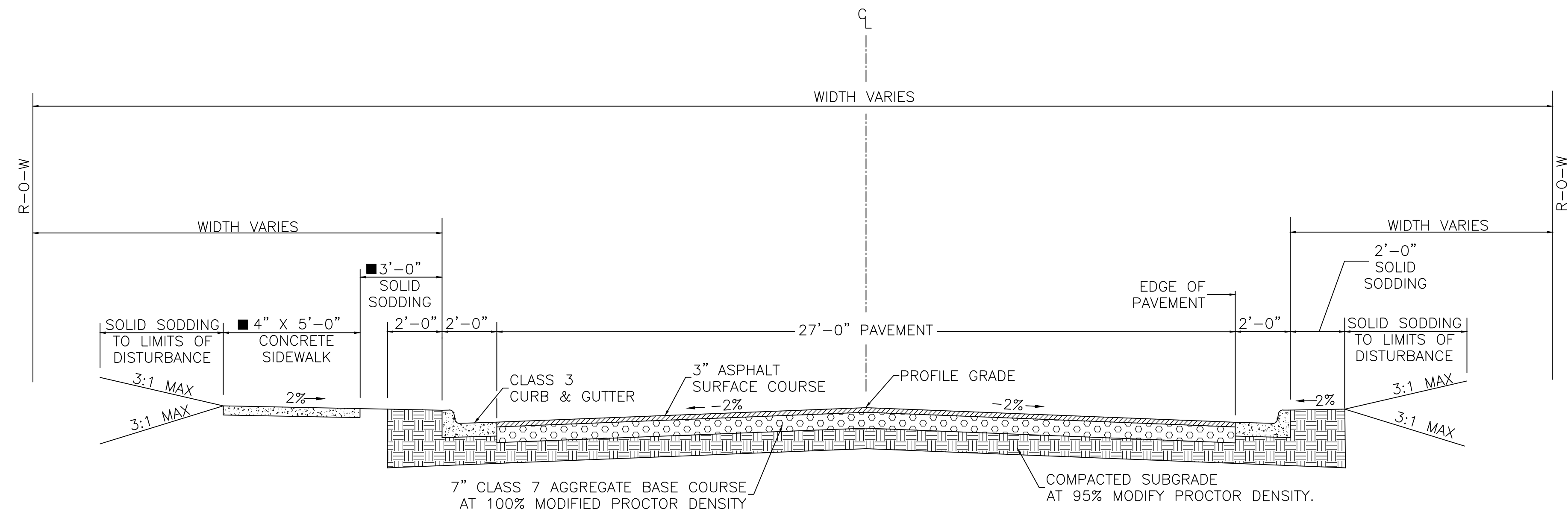
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

COVER SHEET

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

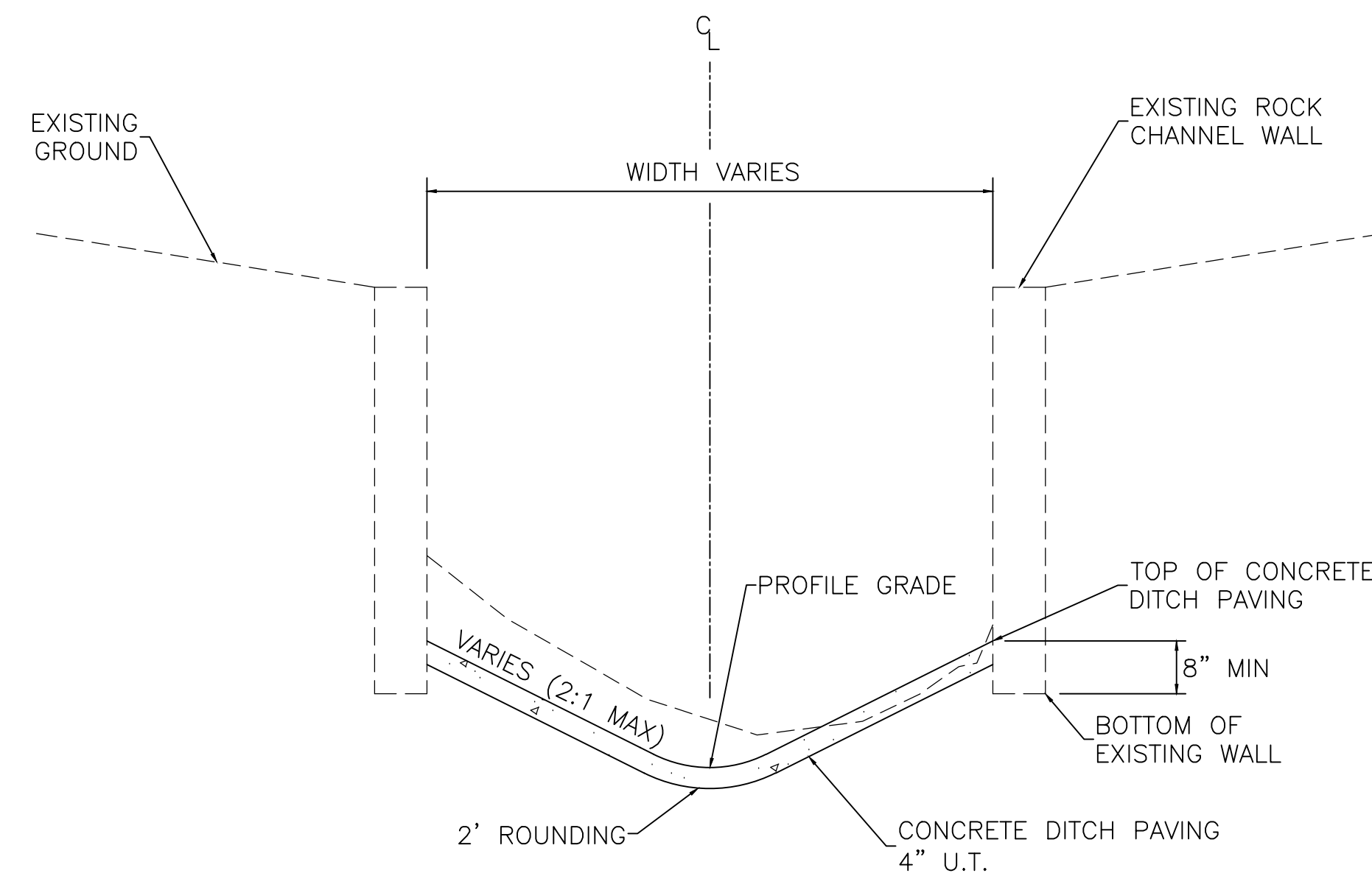


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DATE 3-3-2025
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PROJECT NO. 03-17-DR-107
SHEET NO. C1



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.

REVISIONS	DATE

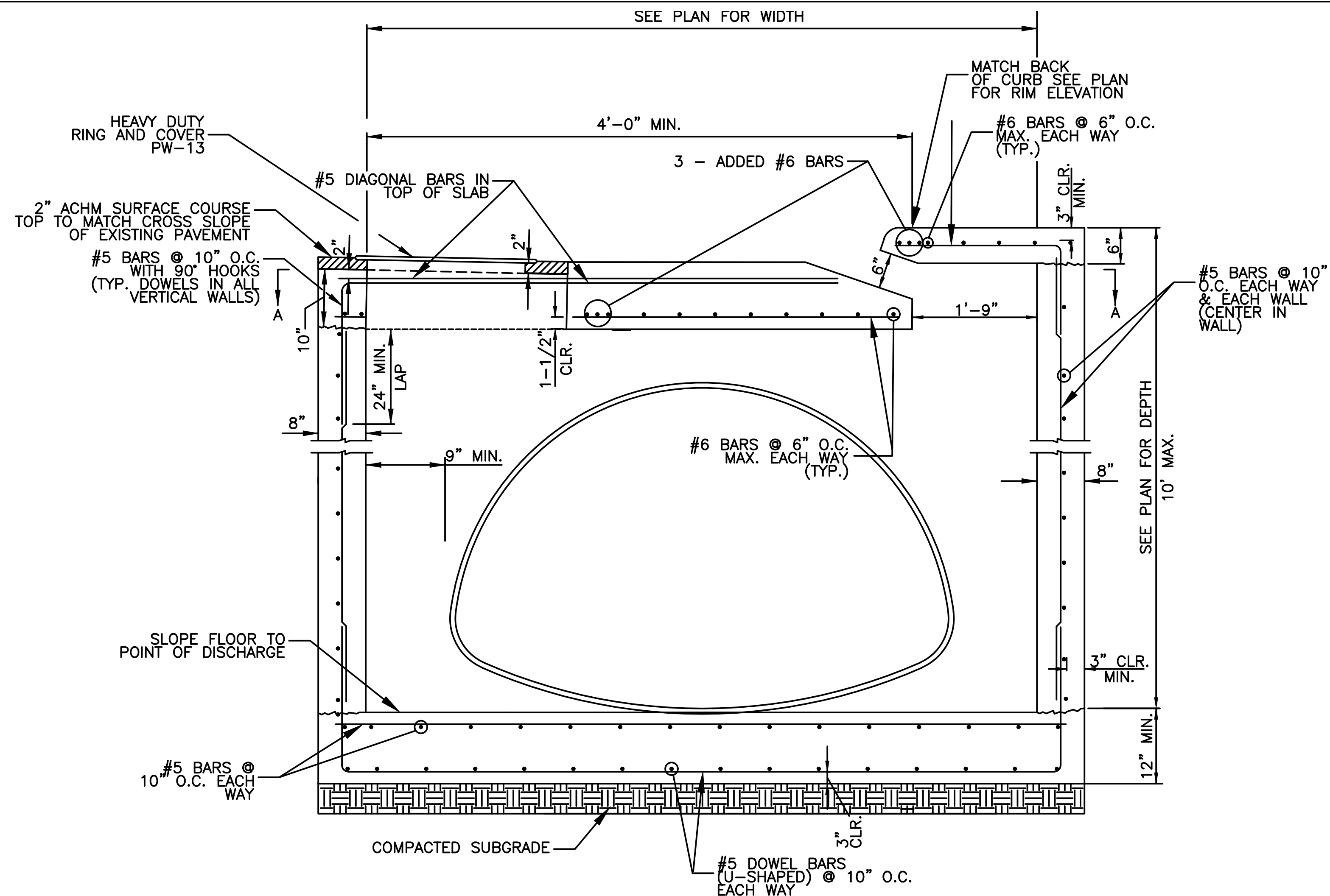
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

TYPICAL SECTIONS

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

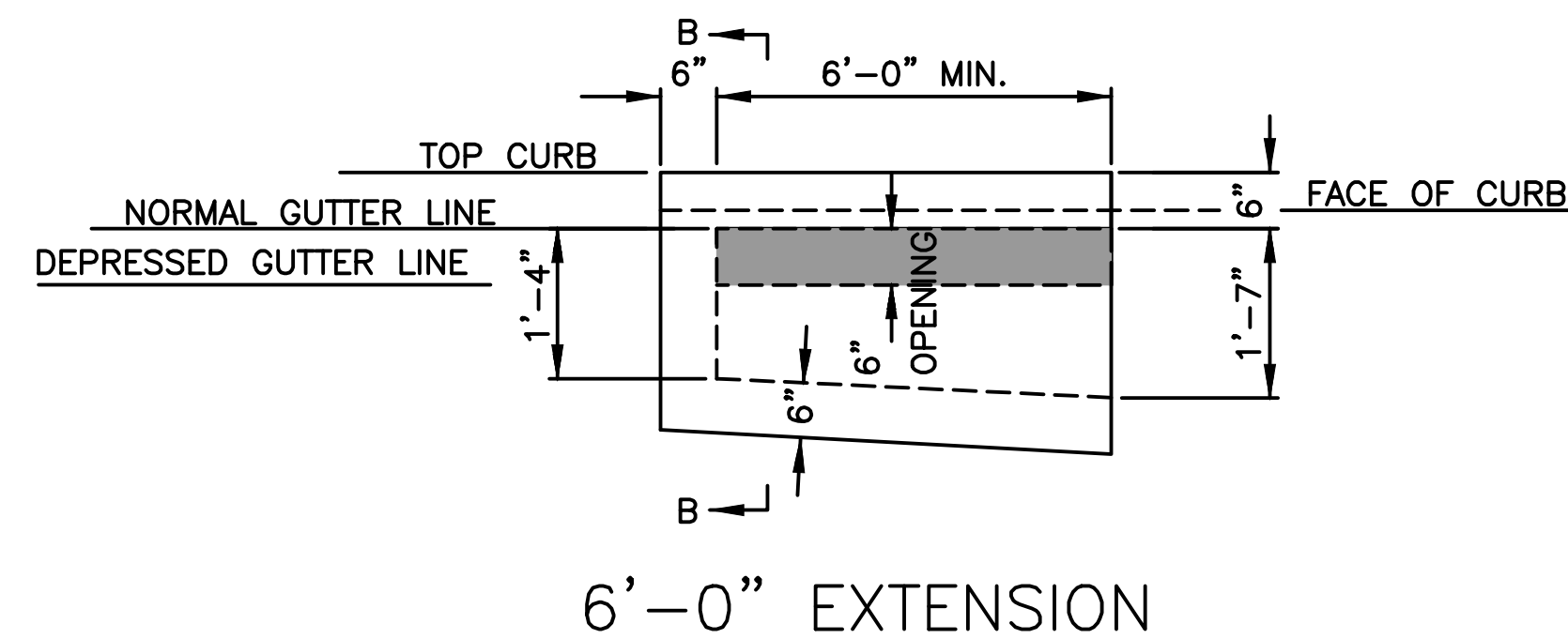


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SCALE N.T.S
PROJECT NO. 03-17-DR-107
SHEET NO. C4

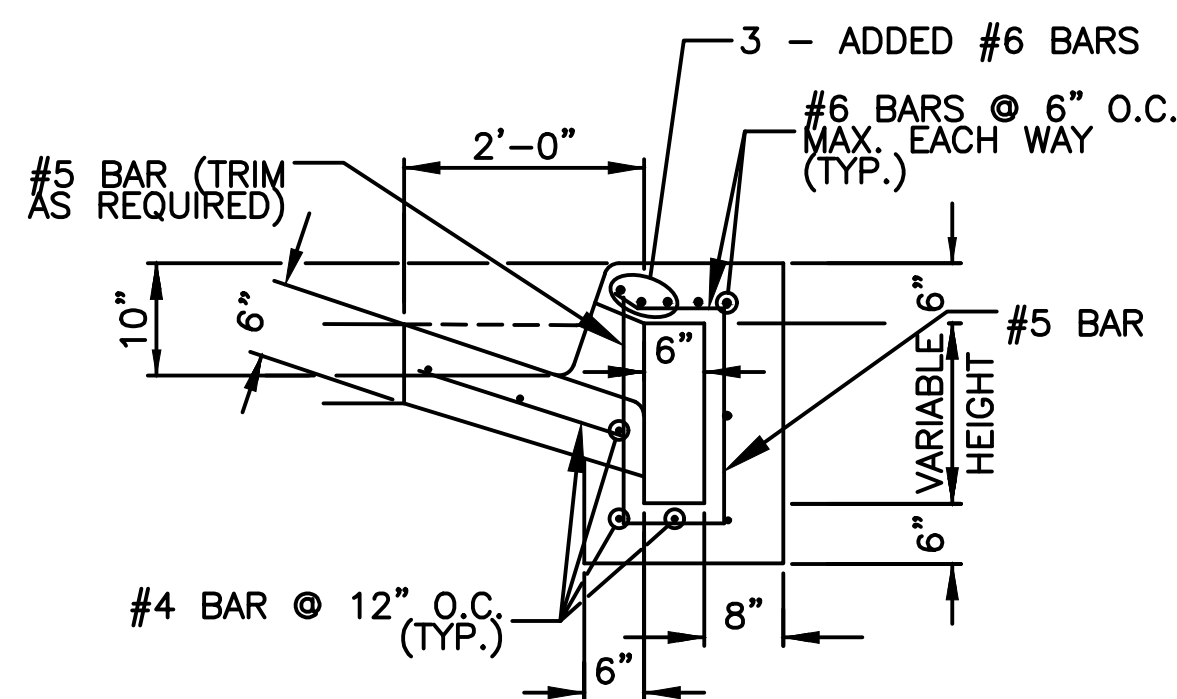


- NOTE:
- ALL EXPOSED CORNERS SHALL HAVE 3/4" CHAMFER.
 - ALL REINFORCING BARS SHALL BE GRADE 60.
 - ALL WORK SHALL COMPLY WITH THE CITY OF LITTLE ROCK CONTRACT CONDITIONS AND SPECIFICATIONS.

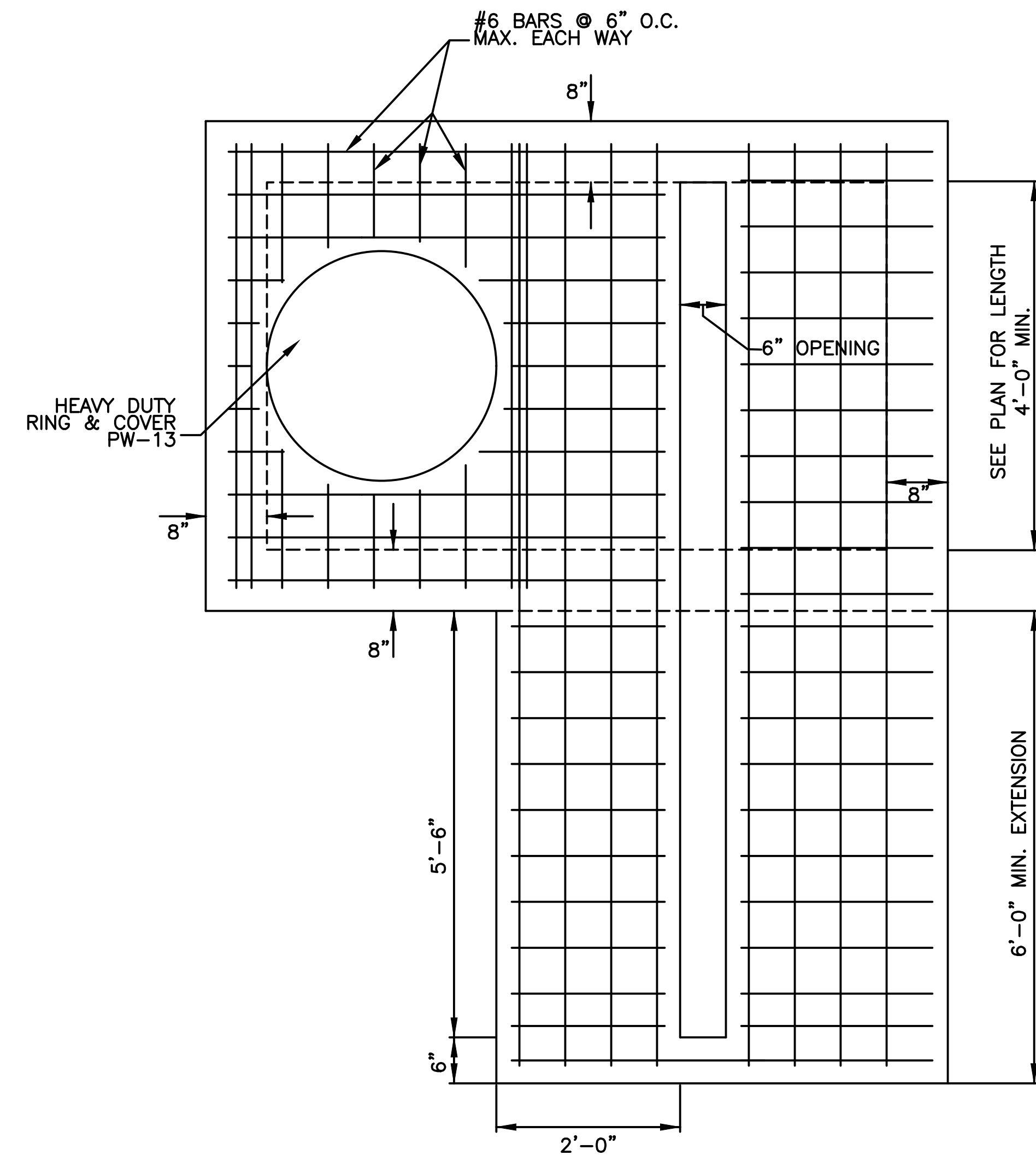
REVERSE THROAT CURB INLET
CI-2, CI-5, CI-16



REVERSE THROAT EXTENSION DETAIL
N.T.S.



SECTION B-B



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

REVISIONS	DATE

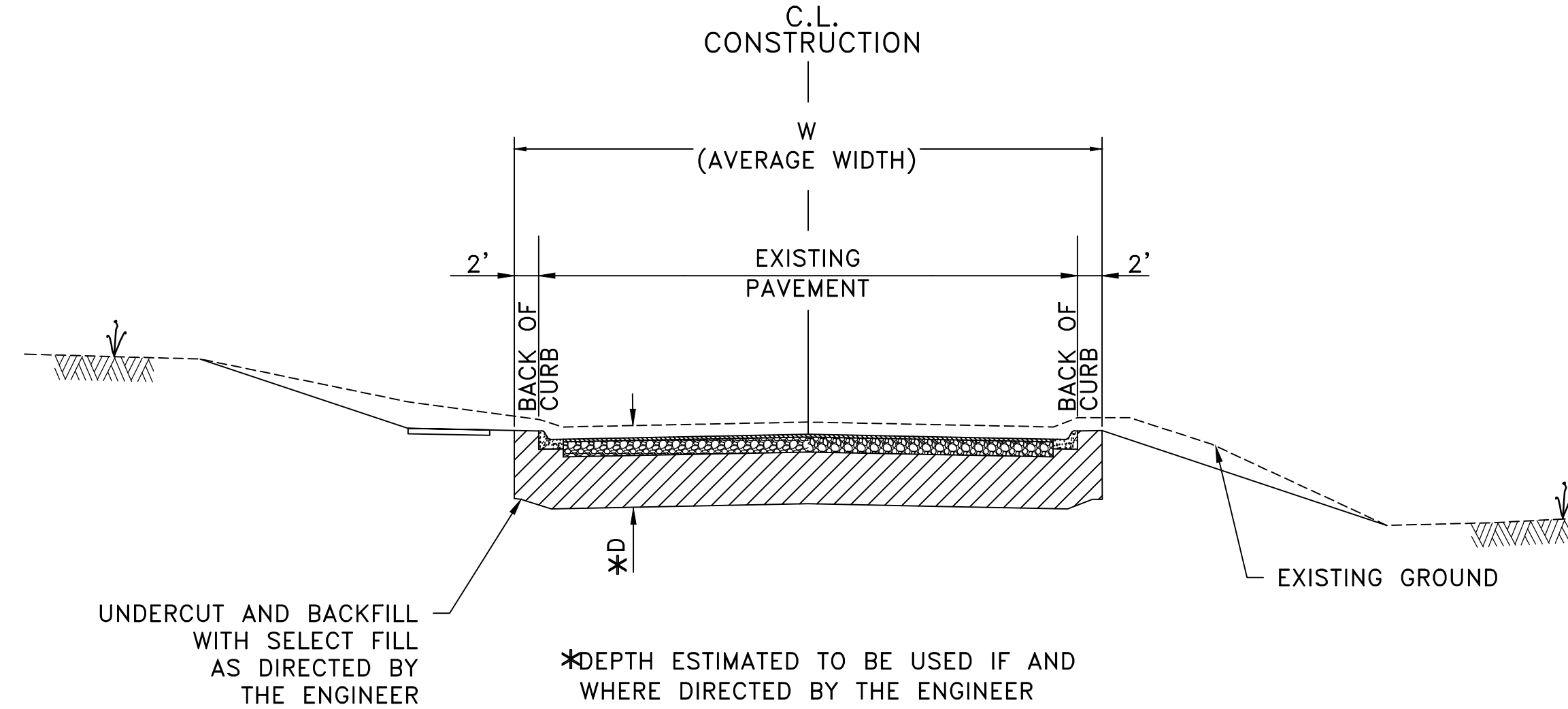
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

SPECIAL DETAILS

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



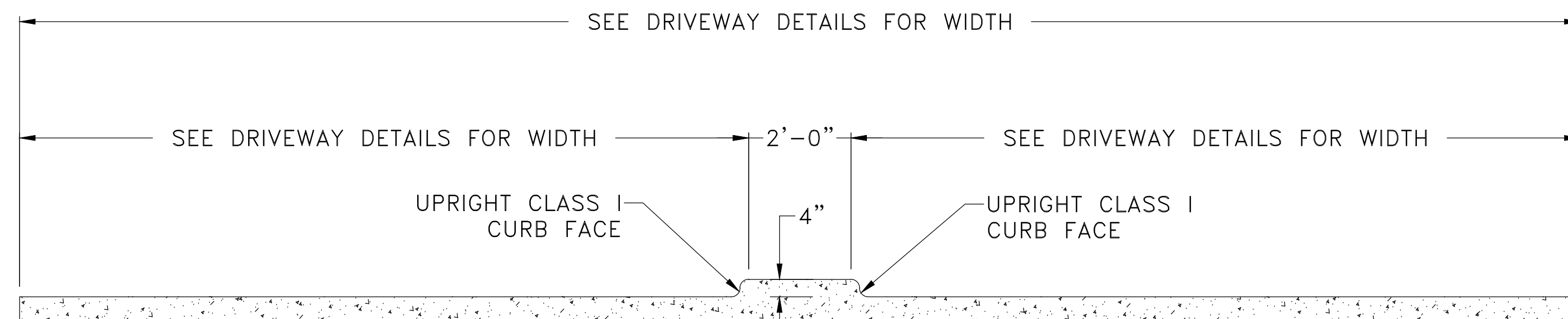
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CHECKED RCC
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SCALE N.T.S.
PROJECT NO. 03-17-DR-107
SHEET NO. C5



DETAIL OF UNDERCUT

ALL LOCATIONS OUTSIDE EXCAVATION LIMITS FOR REINFORCED CONCRETE BOX CULVERT.

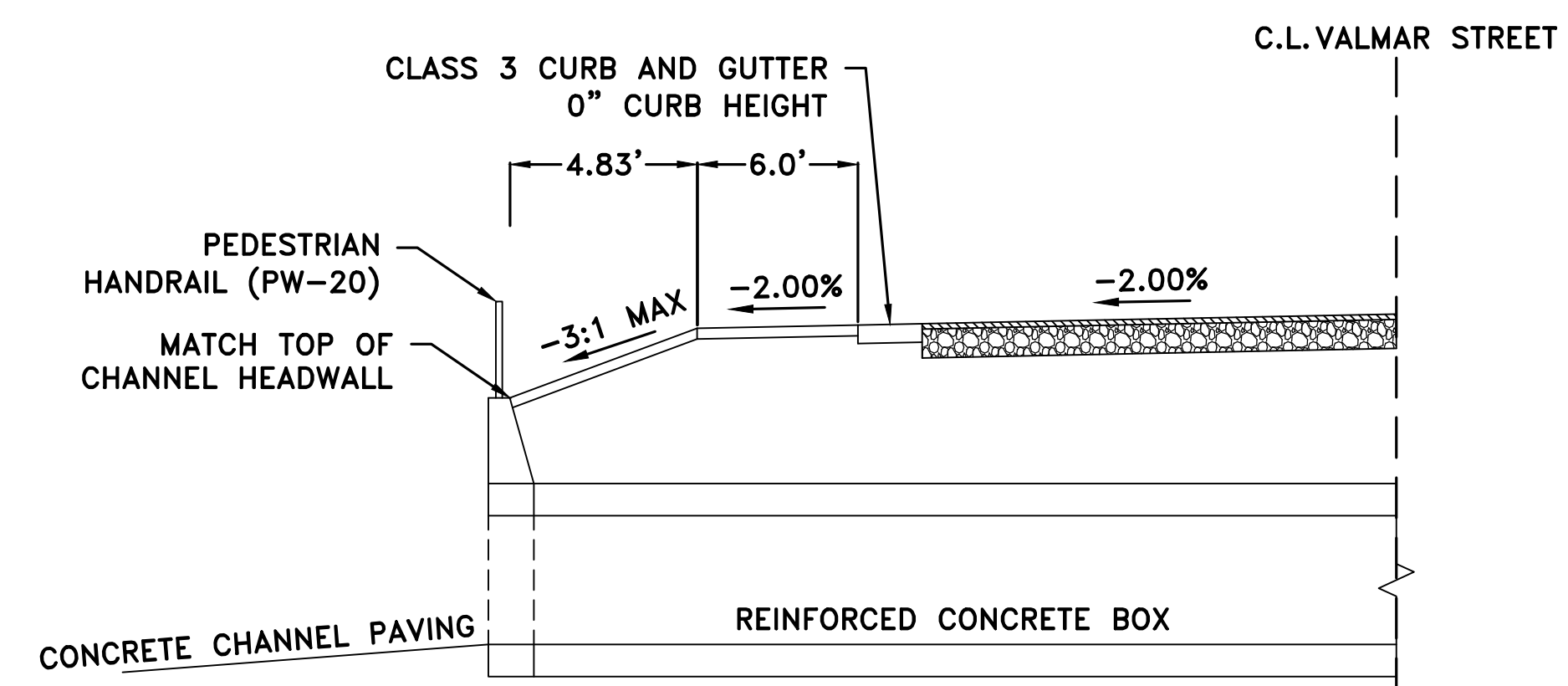
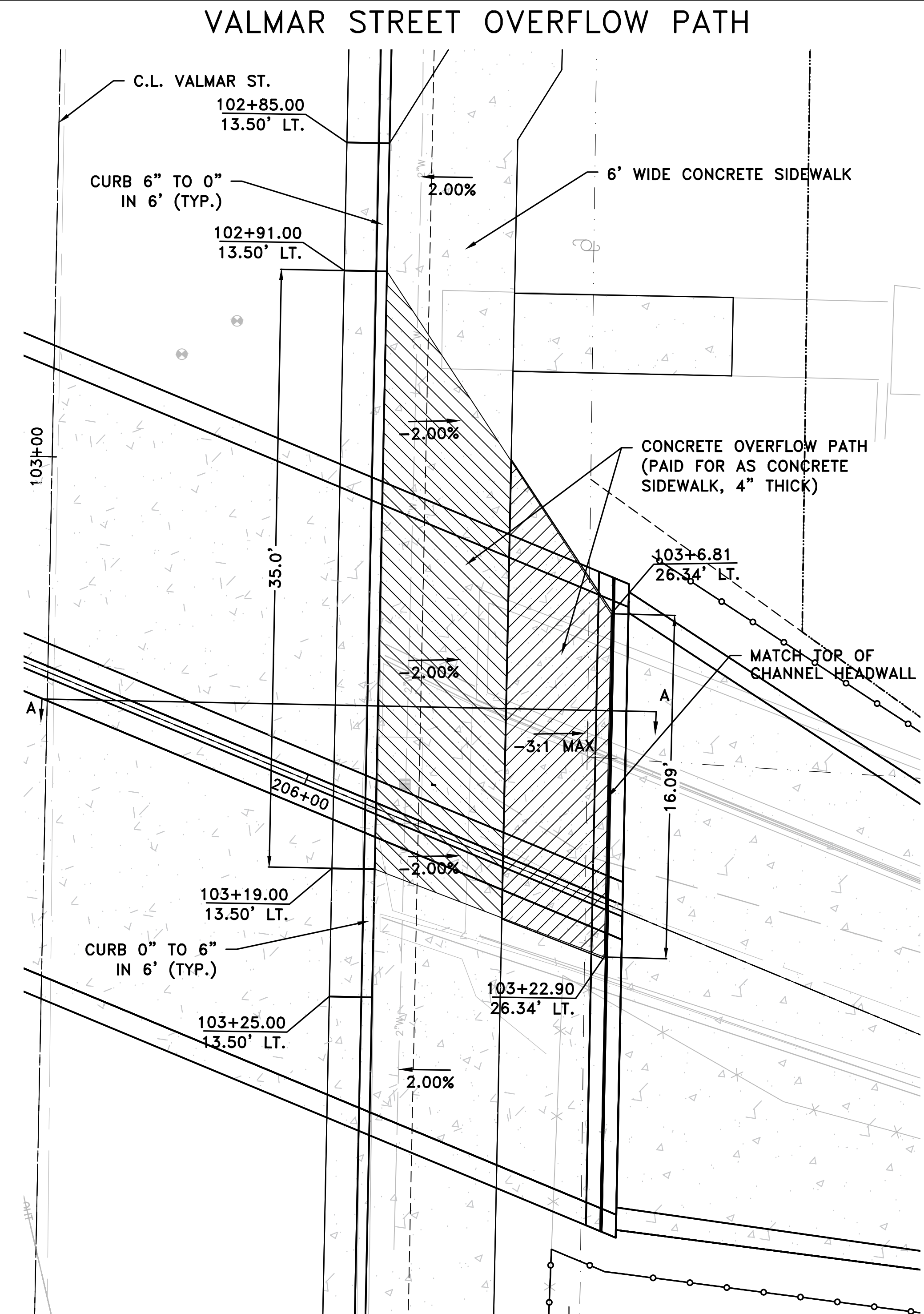
WEST 4TH STREET	D = 3'-4'	W = 30' (AVG)
SOUTH VALENTINE STREET	D = 3'-4'	W = 35' (AVG)
VALMAR STREET	D = 3'-4'	W = 35' (AVG)



CONCRETE ISLAND IN DRIVEWAY

4TH STREET STA. 13+08.60 LT.

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



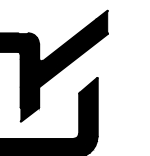
SECTION A-A

REVISIONS	DATE

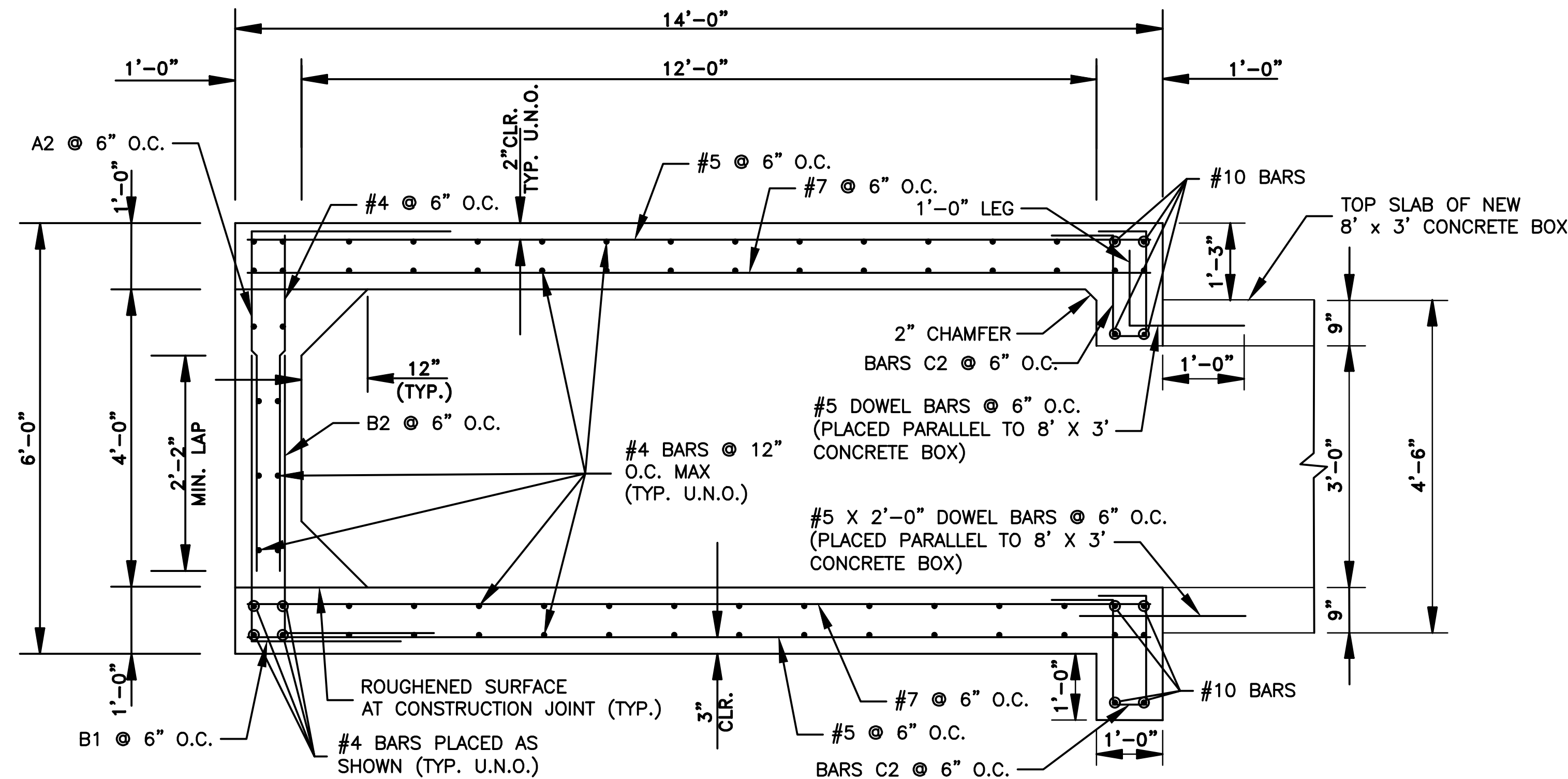
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

SPECIAL DETAILS

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



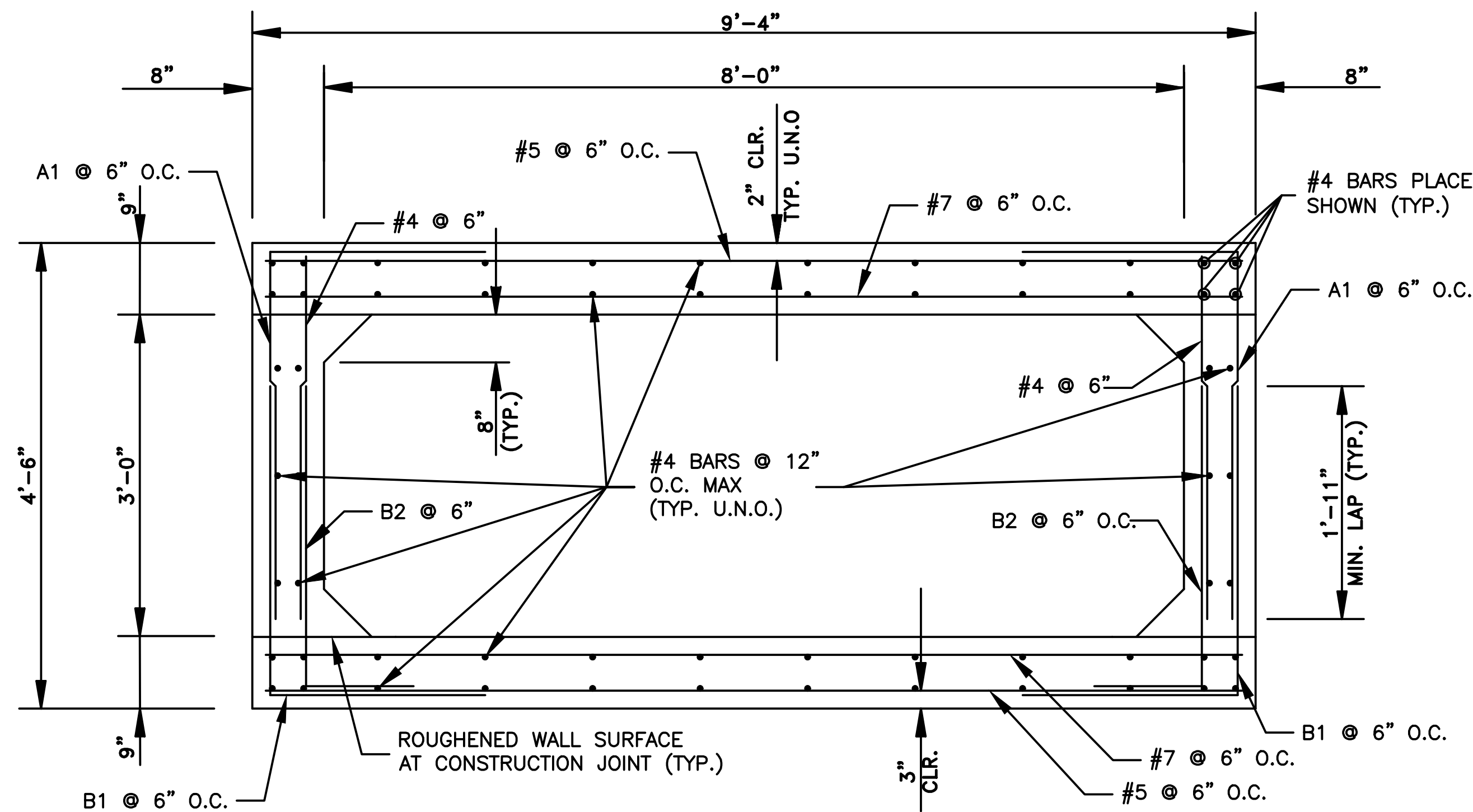
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CHECKED	RCC
DATE	3-3-2025
SCALE	N.T.S
PROJECT NO.	03-17-DR-107
SHEET NO.	C6



SECTION A-A

LEGEND

U.N.O. = UNLESS NOTED OTHERWISE



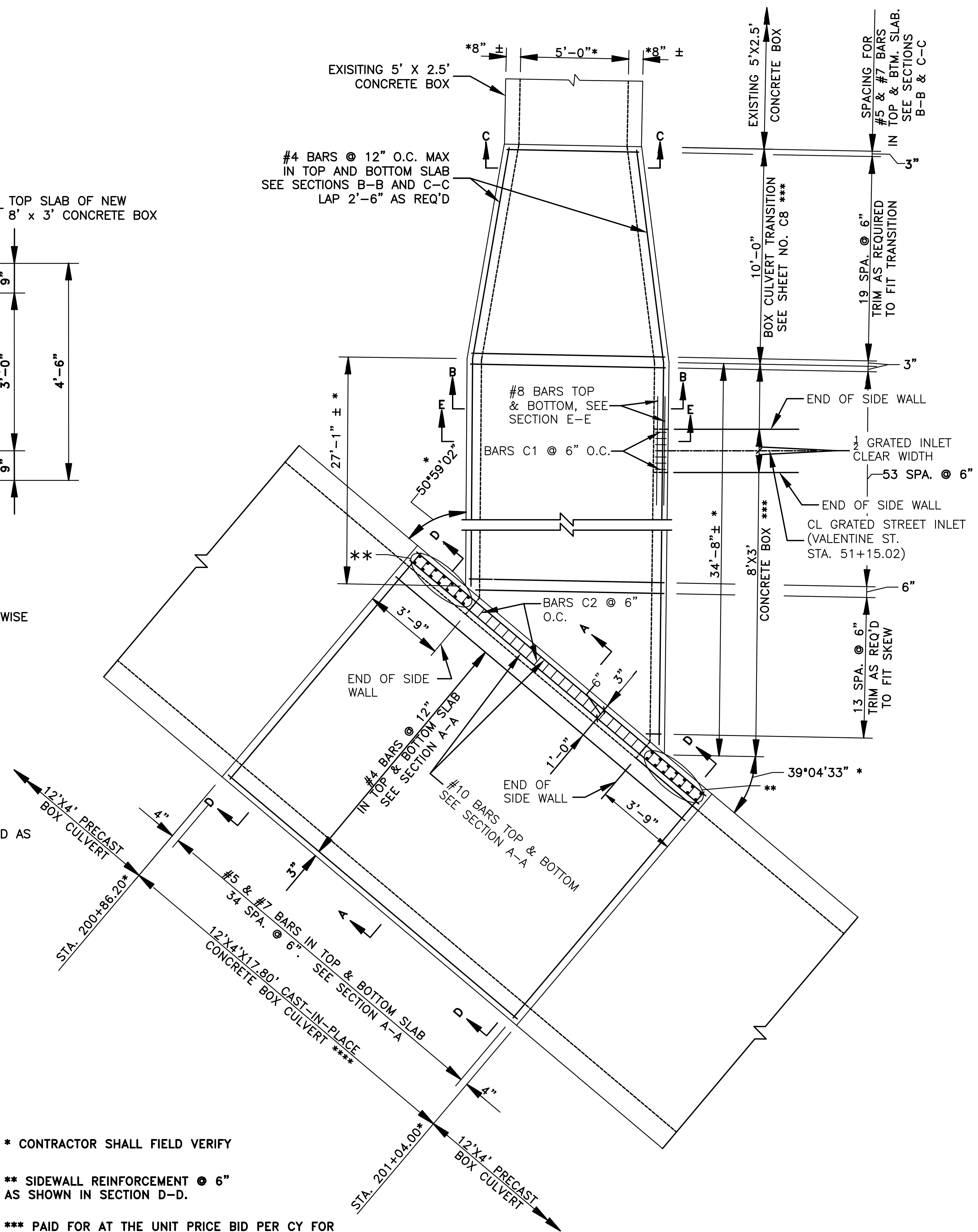
SECTION B-B

* 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')



PLAN VIEW

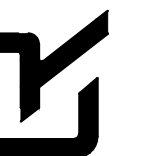
SHOWING DIMENSIONS & REINFORCEMENT SPACING

REVISIONS DATE

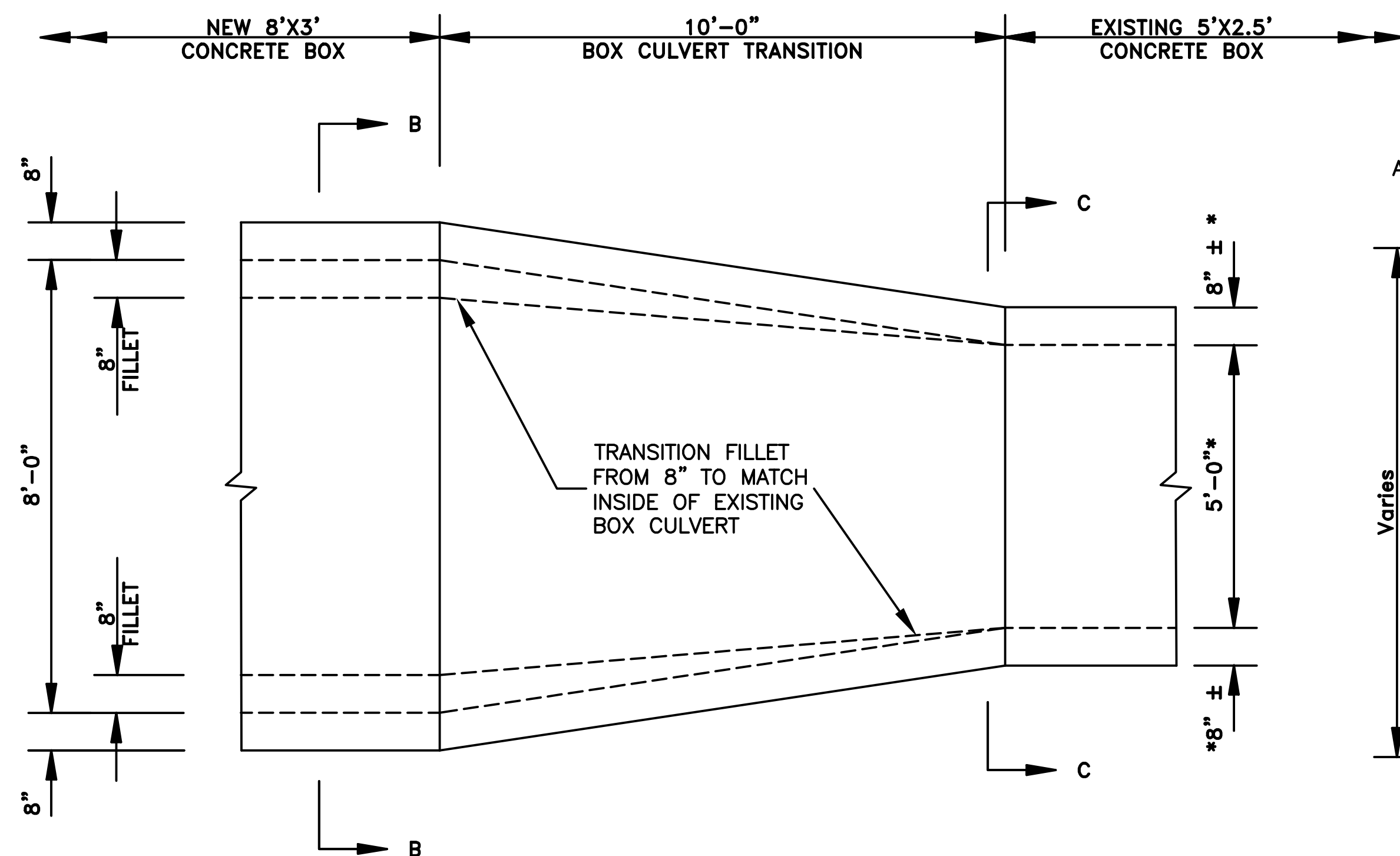
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

SPECIAL DETAILS

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

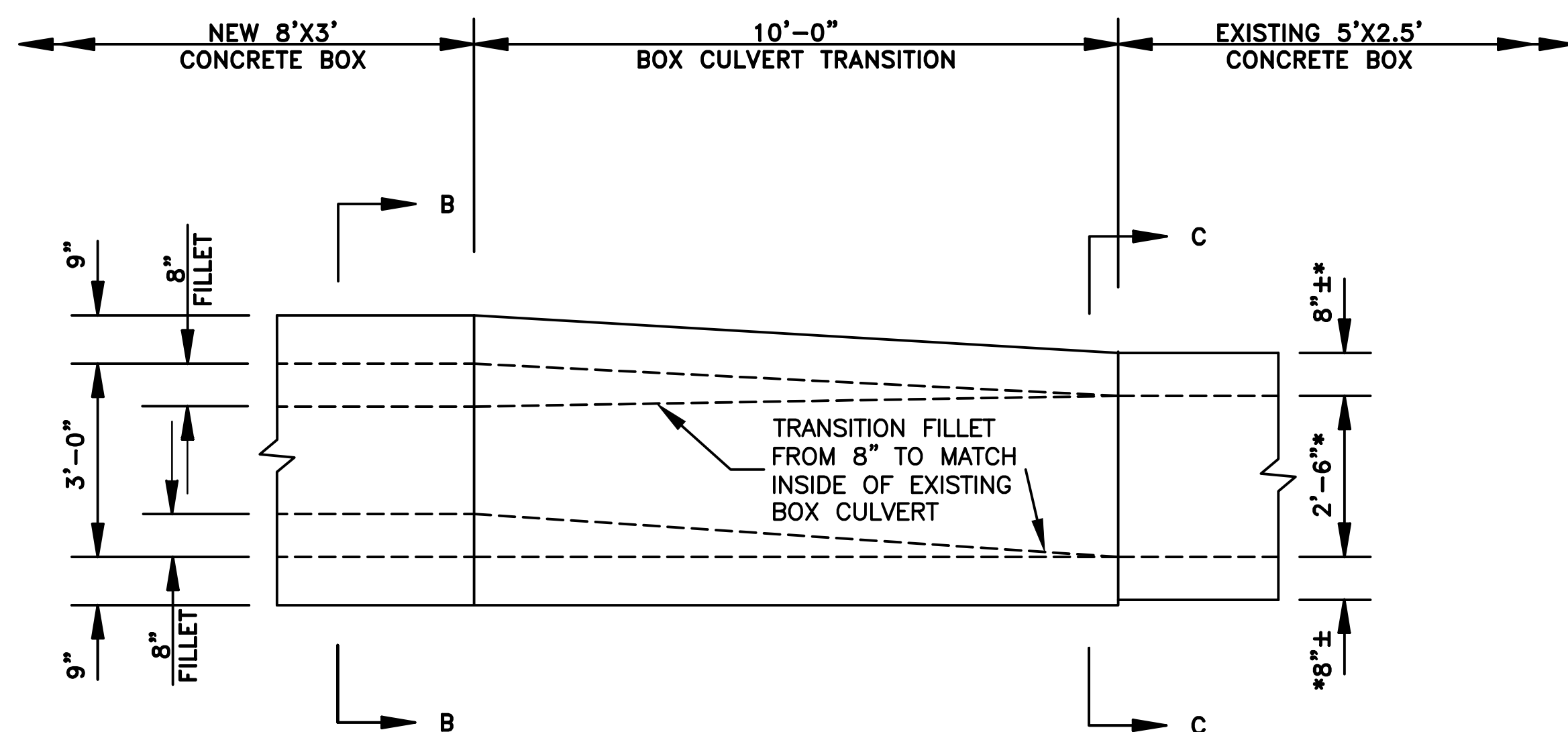


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3-3-2025
SCALE
N.T.S
PROJECT NO.
03-17-DR-107
SHEET NO.
C7

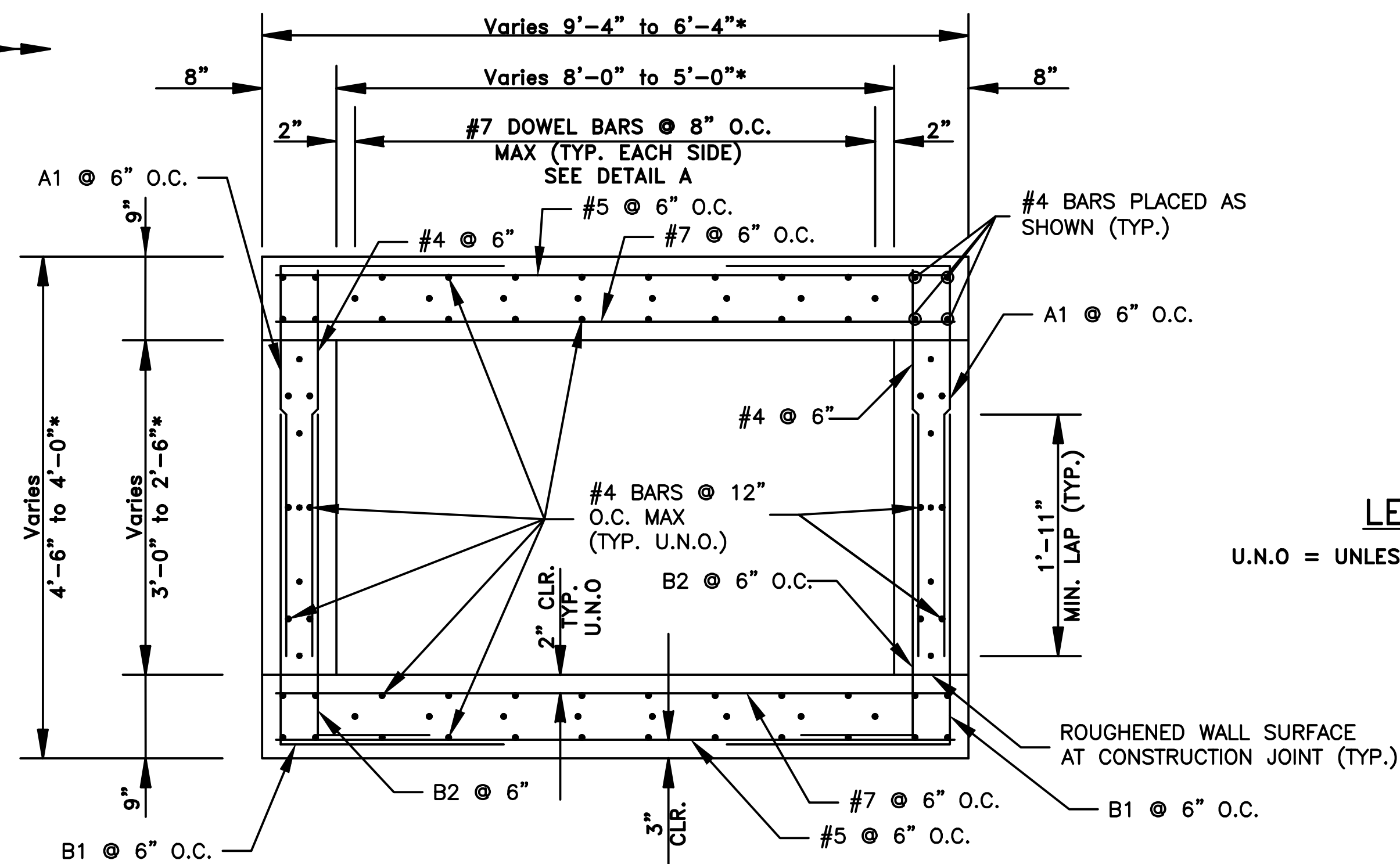


PLAN

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

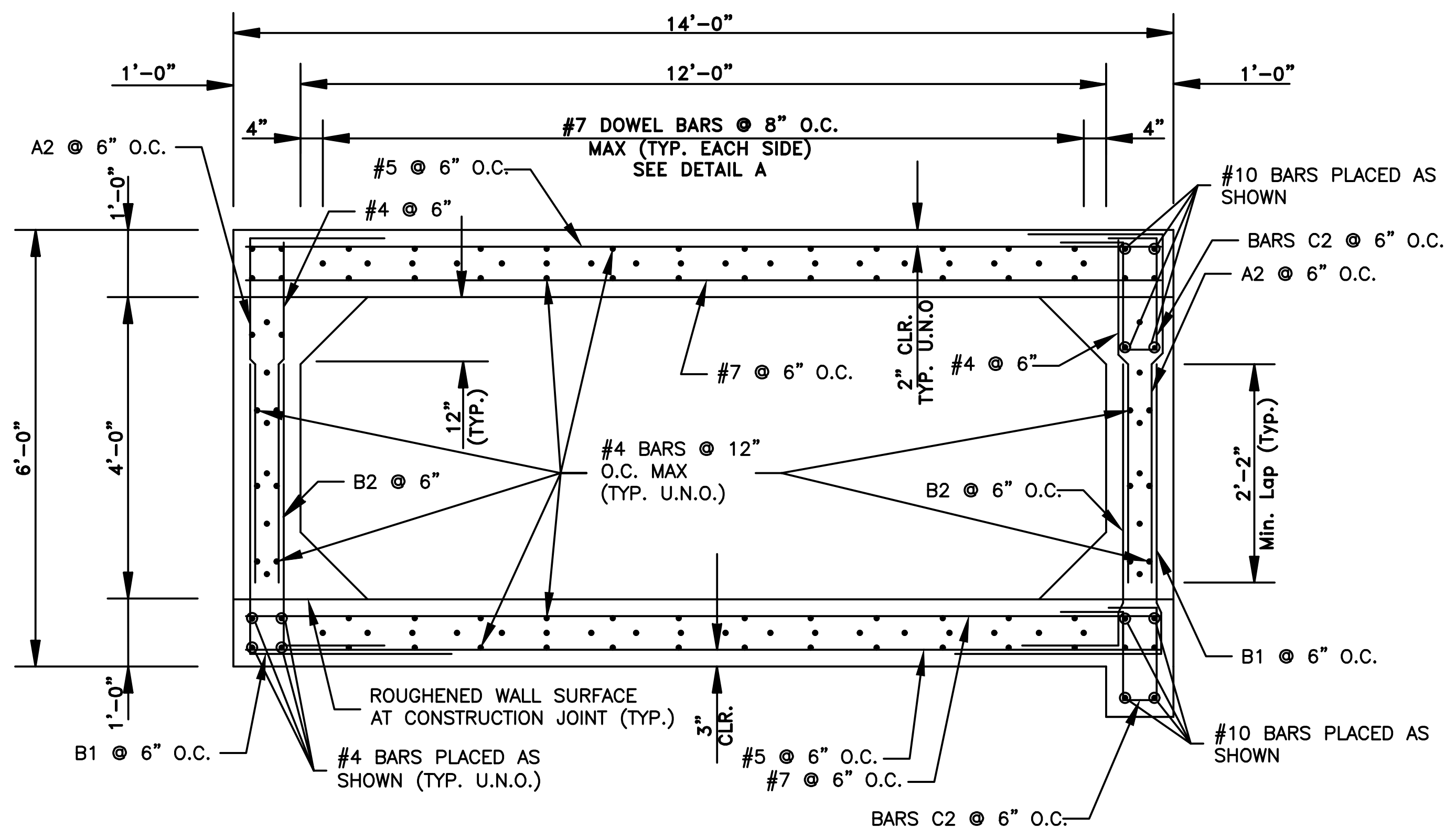


ELEVATION



SECTION C-C

LEGEND
U.N.O = UNLESS NOTED OTHERWISE



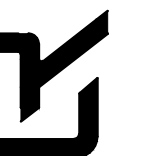
SECTION D-D

REVISIONS DATE

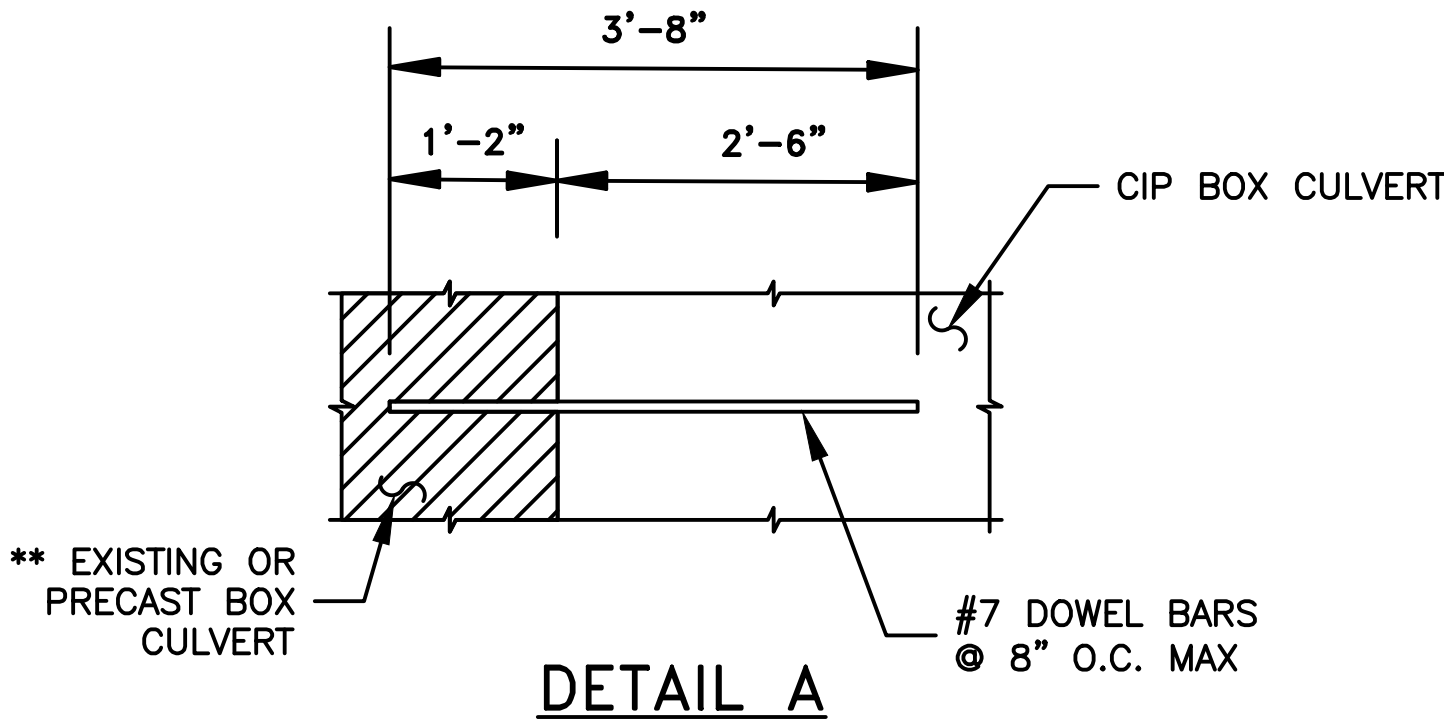
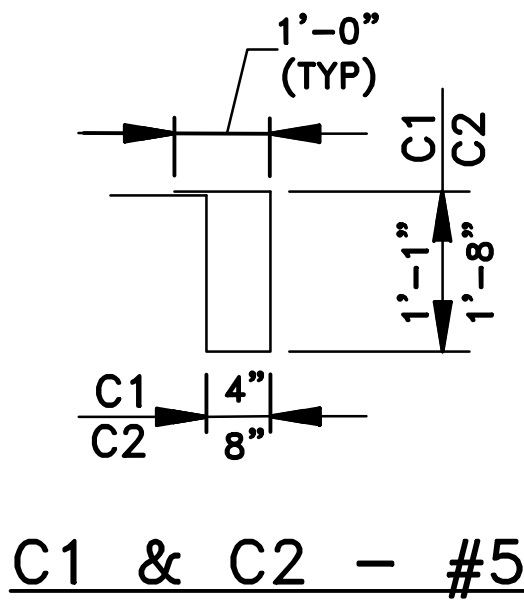
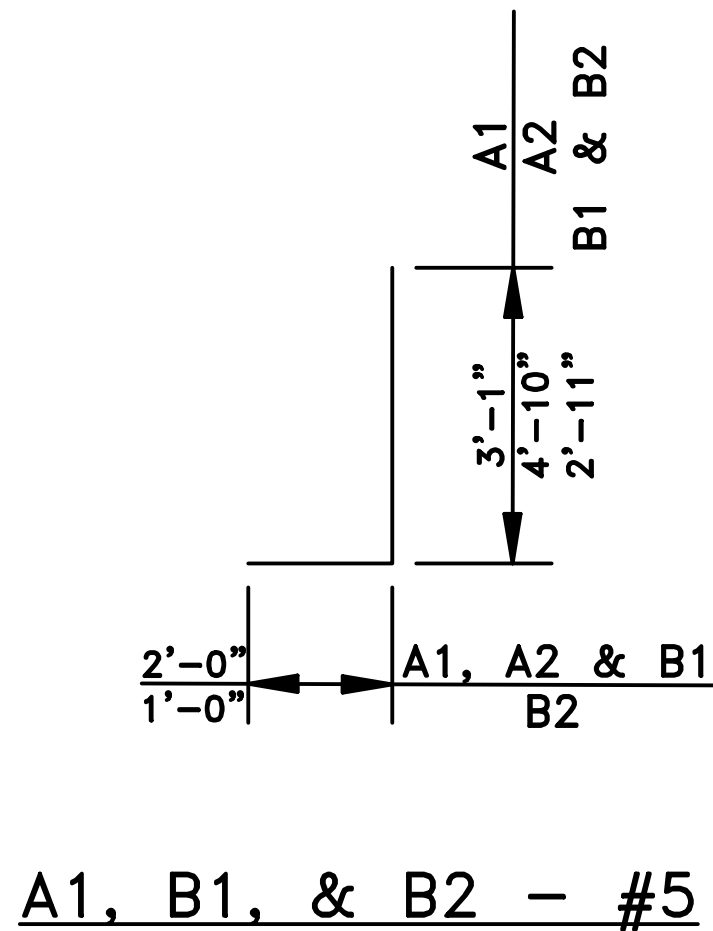
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

SPECIAL DETAILS

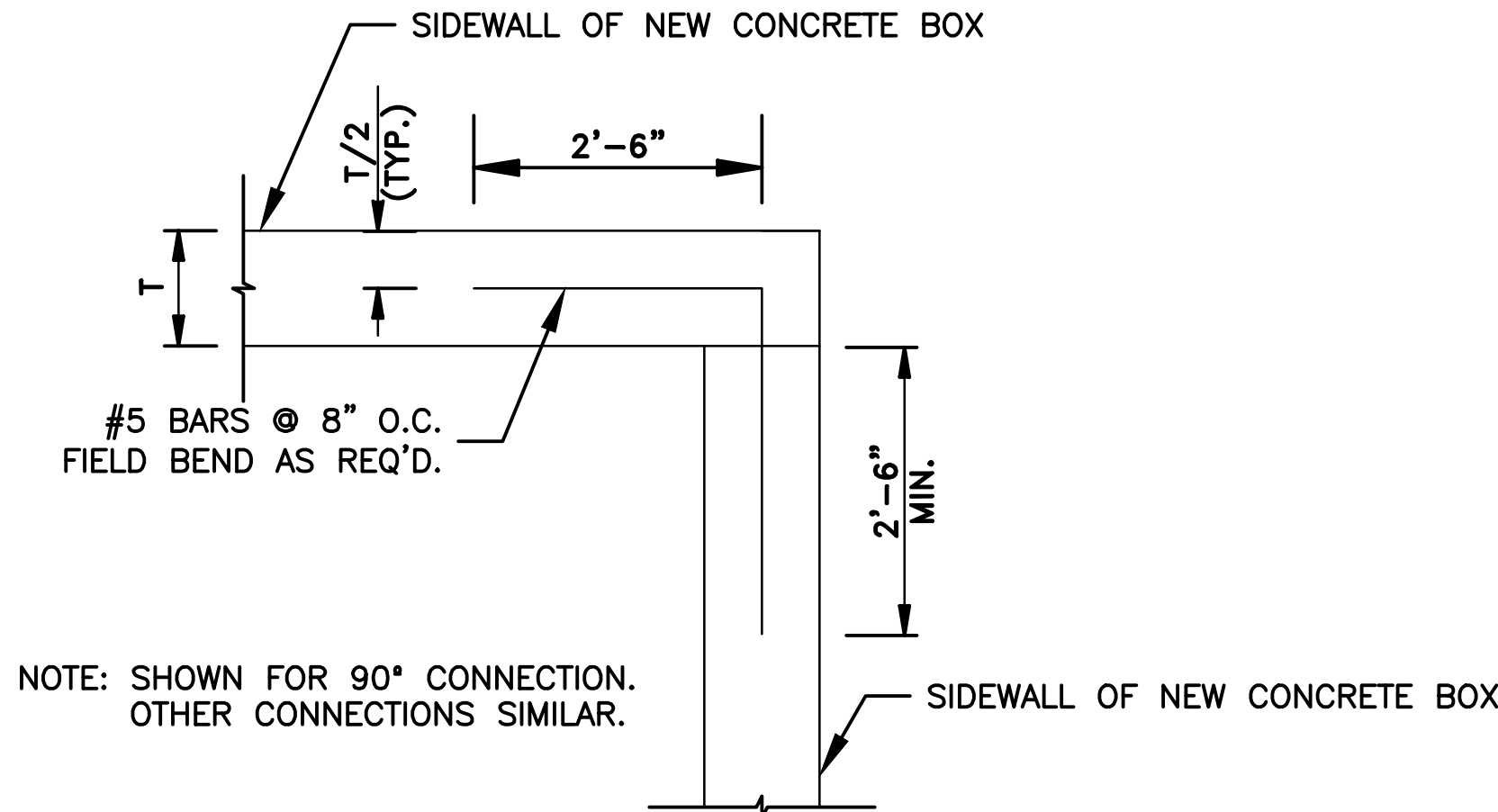
DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201



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DATE
3-3-2025
SCALE
N.T.S
PROJECT NO.
03-17-DR-107
SHEET NO.
C8

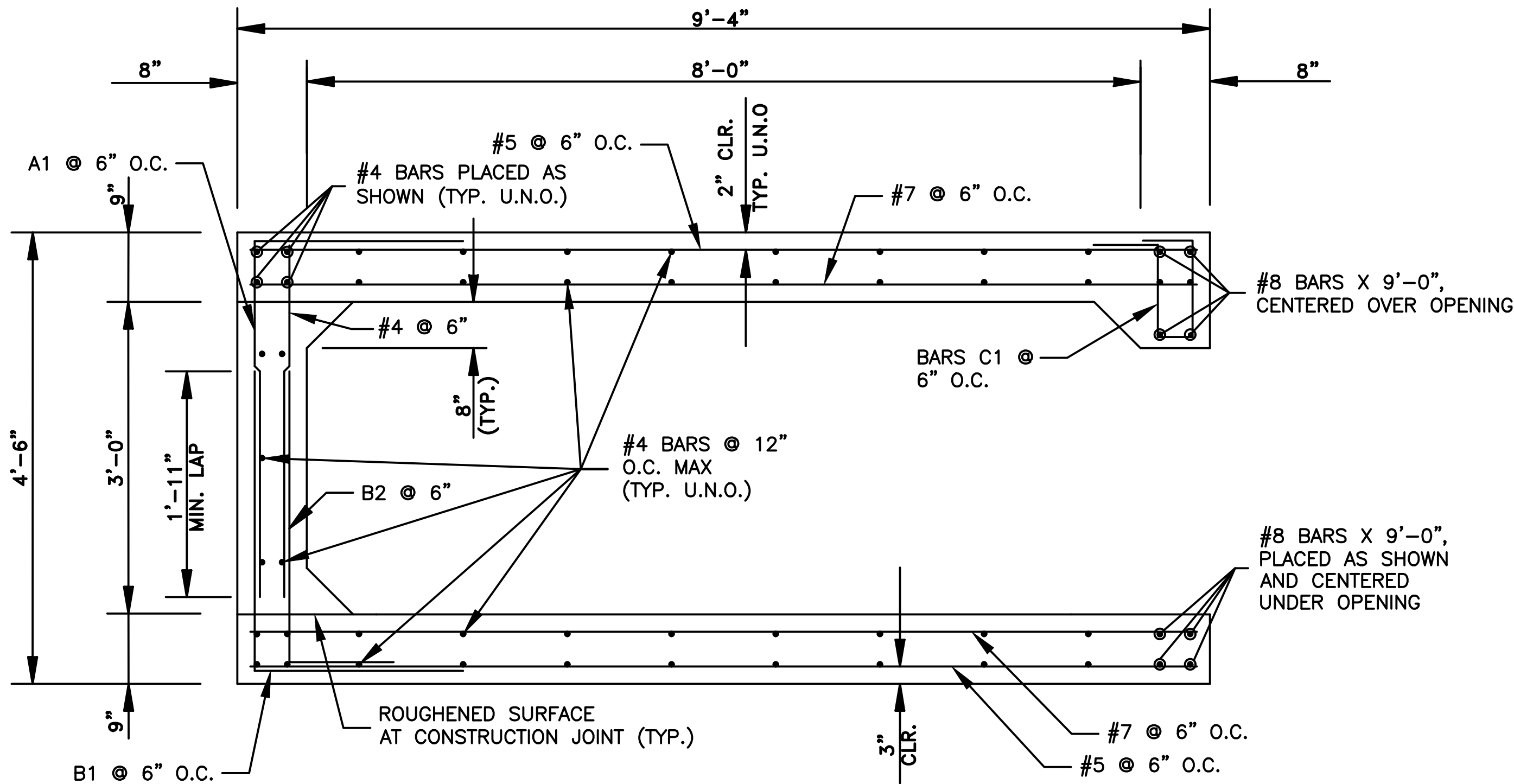


** BARS SHOWN TO BE EMBEDDED INTO EXISTING OR PRECAST BOX CULVERT SHALL BE SECURED USING HILTI HIT RE500 EPOXY ANCHOR OR APPROVED EQUAL. ALL BARS SHALL BE EMBEDDED TO DEPTH SHOWN IN DETAIL A IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. DOWEL BARS SHALL BE PLACED IN TOP SLAB, SIDE WALLS, AND BOTTOM SLAB.



LEGEND

U.N.O. = UNLESS NOTED OTHERWISE



SECTION E-E

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

GENERAL NOTES:

- ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE CITY OF LITTLE ROCK CONTRACT CONDITIONS AND SPECIFICATIONS.
- CONCRETE: CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED $\frac{3}{4}$ ". 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 AND HAVE A 2" MINIMUM CLEARANCE UNLESS OTHERWISE NOTED ON PLANS.
- 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.
- REINFORCING STEEL IN THE TOP SLAB SHALL BE SUPPORTED ON SLAB SPACERS.
- REINFORCING STEEL IN THE WALLS SHALL BE HELD IN PLACE BY METAL CHAIRS. MAXIMUM SPACING OF CHAIRS SHALL BE ON 6.0 FOOT CENTERS.
- COST OF METAL CHAIRS, WOOD PLANKS OR CONCRETE STRIPS SHALL BE INCLUDED ON OTHER ITEMS OF WORK.
- 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.
- MEMBRANE WATER PROOFING SHALL BE APPLIED TO ALL CONSTRUCTION JOINTS IN THE TOP SLAB AND THE SIDE WALLS OF BOX CULVERTS AS DIRECTED BY THE ENGINEER. MEMBRANE WATERPROOFING SHALL CONFORM TO THE REQUIREMENTS OF SECTION 815 OF THE STANDARD SPECIFICATIONS.
- WEEP HOLES IN BOX CULVERT WALLS SHALL HAVE A MAXIMUM HORIZONTAL SPACING OF 10'-0" AND SHALL BE SPACED TO CLEAR ALL REINFORCING STEEL. THE DRAIN OPENING SHALL BE 4" DIAMETER AND SHALL BE PLACED 12" ABOVE THE TOP OF THE BOTTOM SLAB.
- DRAINAGE FILL DETAILS AS SHOWN FOR PRECAST BOX CULVERT SECTIONS IN ARDOT STD. DWG. PBC-1 SHALL ALSO BE REQUIRED FOR CAST-IN-PLACE BOX CULVERT SECTIONS.
- 8" OF CLASS 7 AGGREGATE BASE COURSE AS SHOWN IN THE PRECAST BOX CULVERT DETAIL SHALL BE REQUIRED FOR CAST-IN-PLACE BOX CULVERT SECTIONS.

REVISIONS	DATE

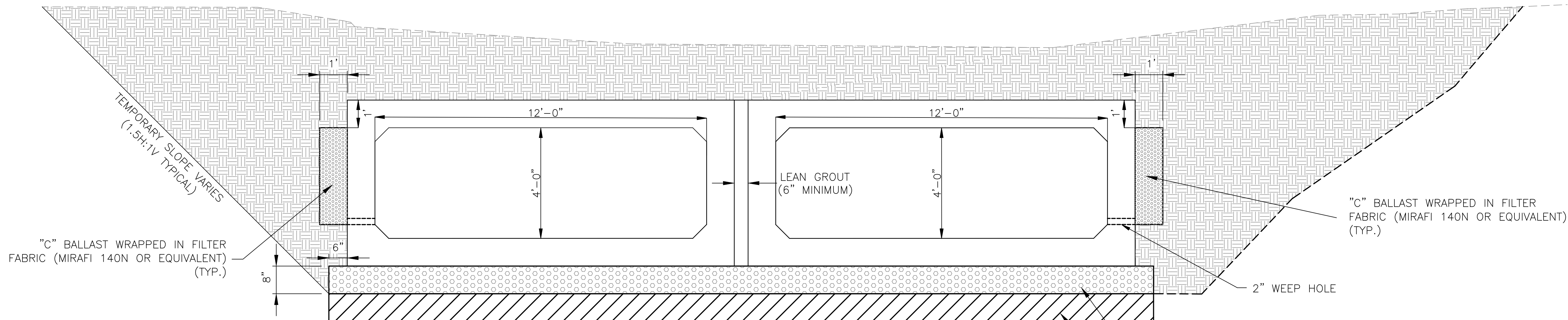
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

SPECIAL DETAILS

DEPARTMENT OF PUBLIC WORKS CIVIL ENGINEERING 701 W. MARKHAM LITTLE ROCK, ARKANSAS 72201
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SCALE N.T.S
PROJECT NO. 03-17-DR-107
SHEET NO. C9



REINFORCED CONCRETE PRECAST BOX CULVERT (DBL. 12' X 4')

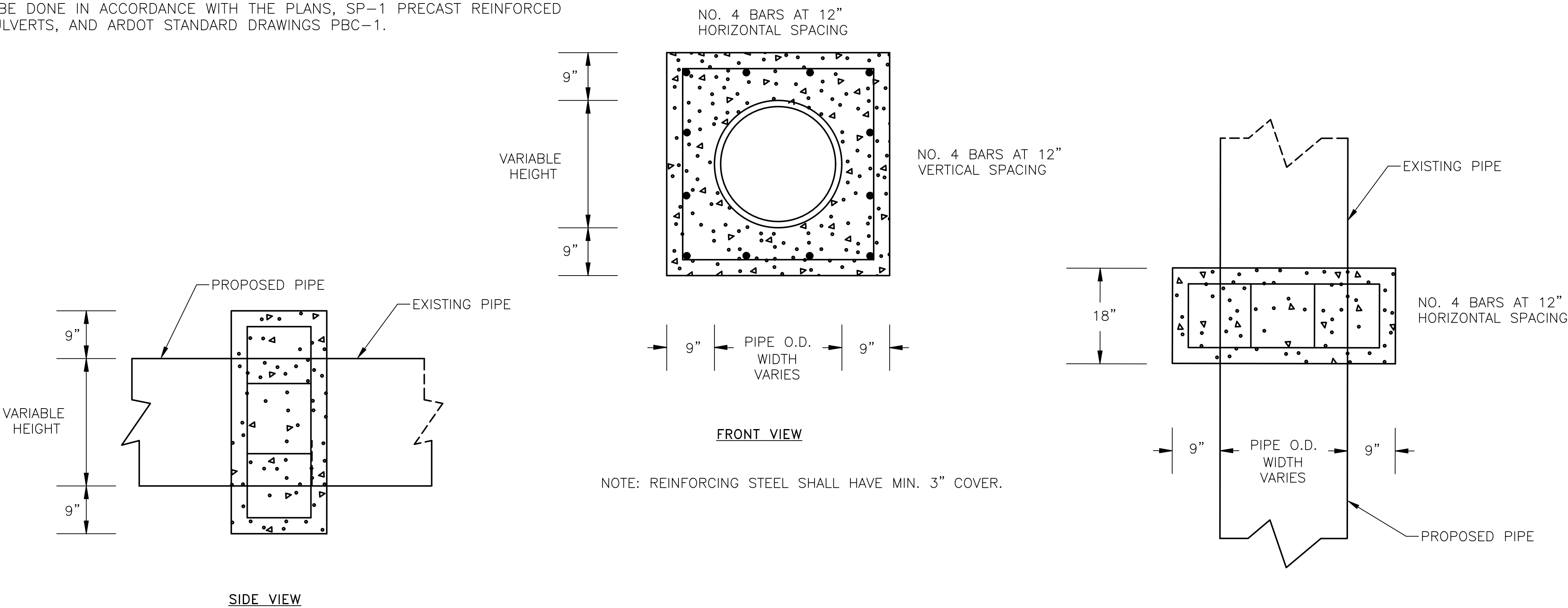
STA. 200+79.00 TO STA. 202+81.07
STA. 204+18.28 TO STA. 206+16.03

GENERAL NOTES:

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.

ALL WORK REQUIRED FOR THE CONSTRUCTION OF THE REINFORCED CONCRETE BOX CULVERT, SHALL BE PAID FOR AT THE UNIT PRICE BID PER LF FOR "REINFORCED CONCRETE PRECAST BOX CULVERT (DBL. 12'X4')".

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PLANS, SP-1 PRECAST REINFORCED CONCRETE BOX CULVERTS, AND ARDOT STANDARD DRAWINGS PBC-1.



PIPE EXTENSION
REINFORCED CONCRETE COLLAR DETAIL

REVISIONS	DATE

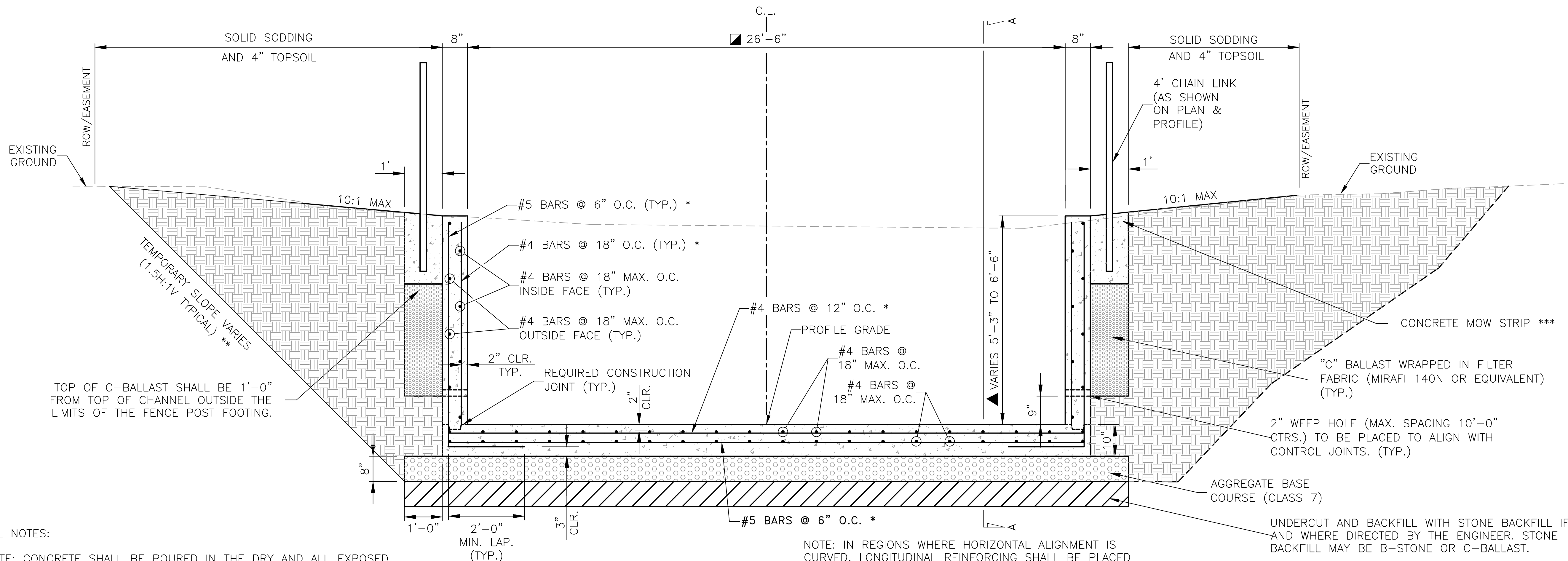
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

SPECIAL DETAILS

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



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CHECKED RCC
DATE 3-3-2025
SCALE N.T.S
PROJECT NO. 03-17-DR-107
SHEET NO. C10



GENERAL NOTES:

CONCRETE: CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED $\frac{3}{4}$ ". 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 WALL SHALL BE STAGGERED.

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

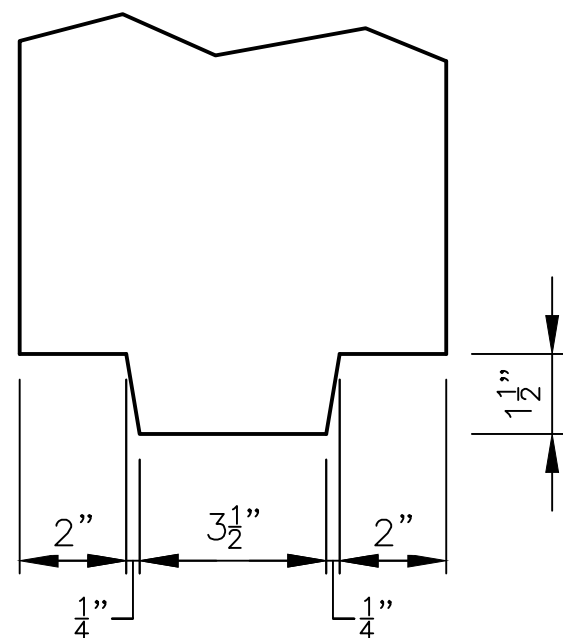
TOE WALL TO BE CONSTRUCTED FULL WIDTH AT THE INLET END OF THE CONCRETE CHANNEL AND TO BE POURED MONOLITHICALLY.

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.

ALL WORK REQUIRED FOR THE CONSTRUCTION OF THE REINFORCED CONCRETE CHANNEL, INCLUDING TOE WALLS, EXPANSION JOINTS, AND DRAIN PIPES SHALL BE PAID FOR AT THE UNIT PRICE BID PER LF FOR "REINFORCED CONCRETE CHANNEL".



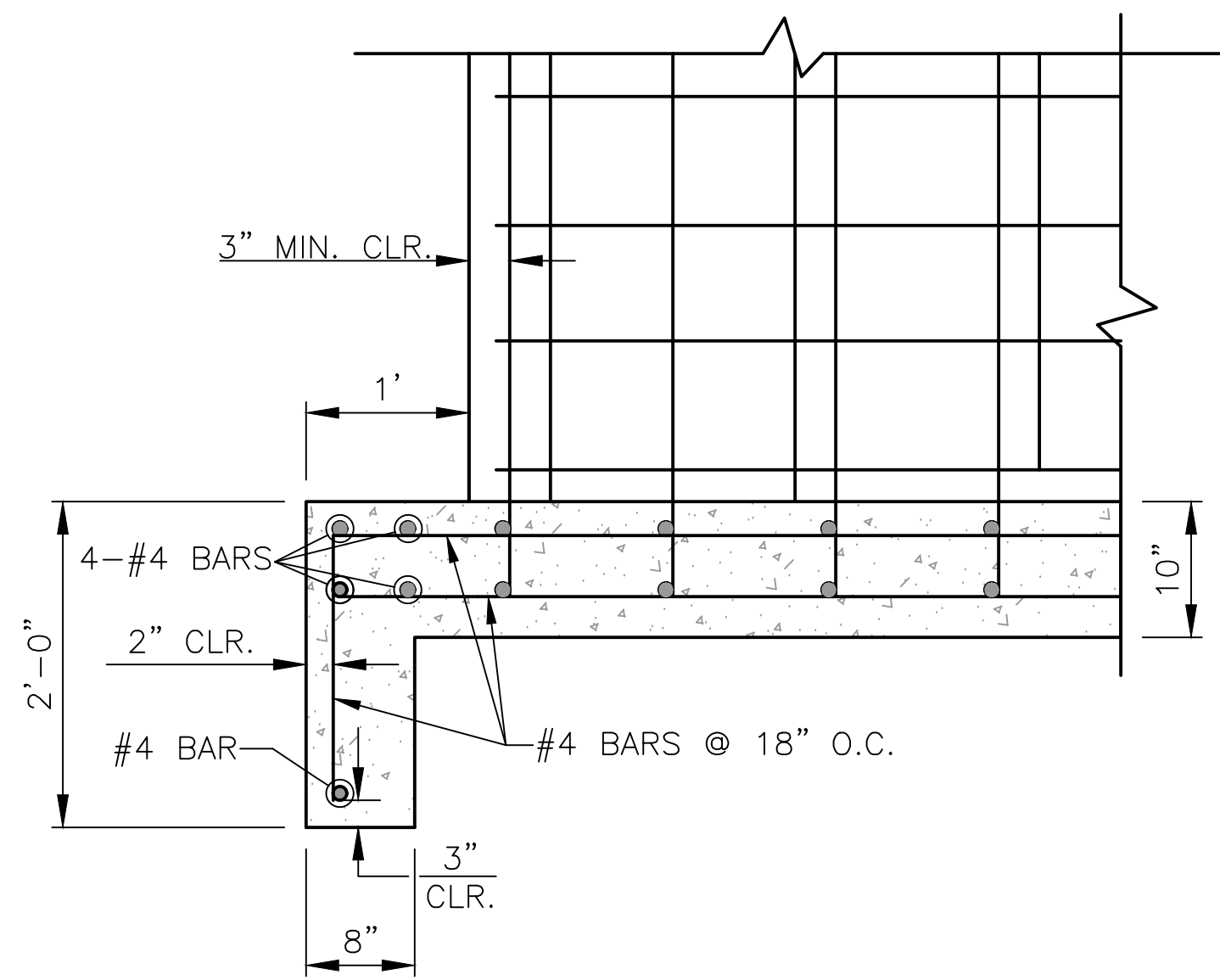
KEYWAY DETAIL

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

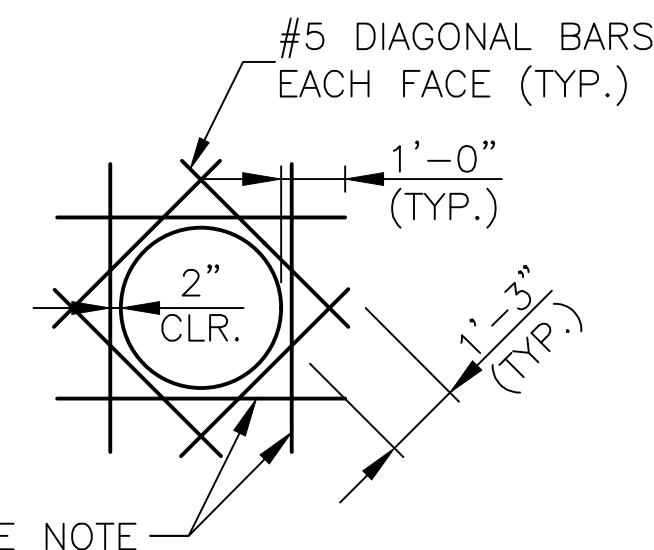
NOTE: IN REGIONS WHERE HORIZONTAL ALIGNMENT IS CURVED, LONGITUDINAL REINFORCING SHALL BE PLACED ALONG CURVES CONCENTRIC WITH CL ALIGNMENT AND TRANSVERSE REINFORCING SHALL BE PLACED ON LINES RADIAL TO CL ALIGNMENT.

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



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



DETAIL OF WALL OPENING
IN CONCRETE CHANNEL

REINFORCING INTERRUPTED BY OPENING SHALL BE REPLACED BY AN EQUIVALENT AMOUNT OF REINFORCING PLACED ON EACH SIDE OF OPENING.

IF BARS CANNOT BE PLACED AS SHOWN DUE TO CONFLICT WITH SLAB OR WALL CORNER, BARS SHALL BE BENT TO ANCHOR IN THE WALL OR SLAB.

▲ 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

* TRIM BARS AS REQUIRED TO FIT SKEWED CHANNEL ENDS AND VARYING CHANNEL WIDTHS AND HEIGHTS IN TRANSITION REGIONS.

** THE CONTRACTOR SHALL DETERMINE THE SOIL TYPE IN THE FIELD AND SELECT THE APPROPRIATE OSHA SLOPING OR BENCHING METHOD.

*** CONTRACTOR SHALL INSTALL A 1'-0" WIDE 4" THICK CONCRETE MOW STRIP ALONG THE BACK OF THE CHANNEL WALLS AND BETWEEN FENCE POST FOOTINGS. CONCRETE MOW STRIP WILL BE PAID FOR PER THE UNIT PRICE BID FOR "CONCRETE SIDEWALK (4" THICK)"

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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RCC

CHECKED

RCC

DATE

3-3-2025

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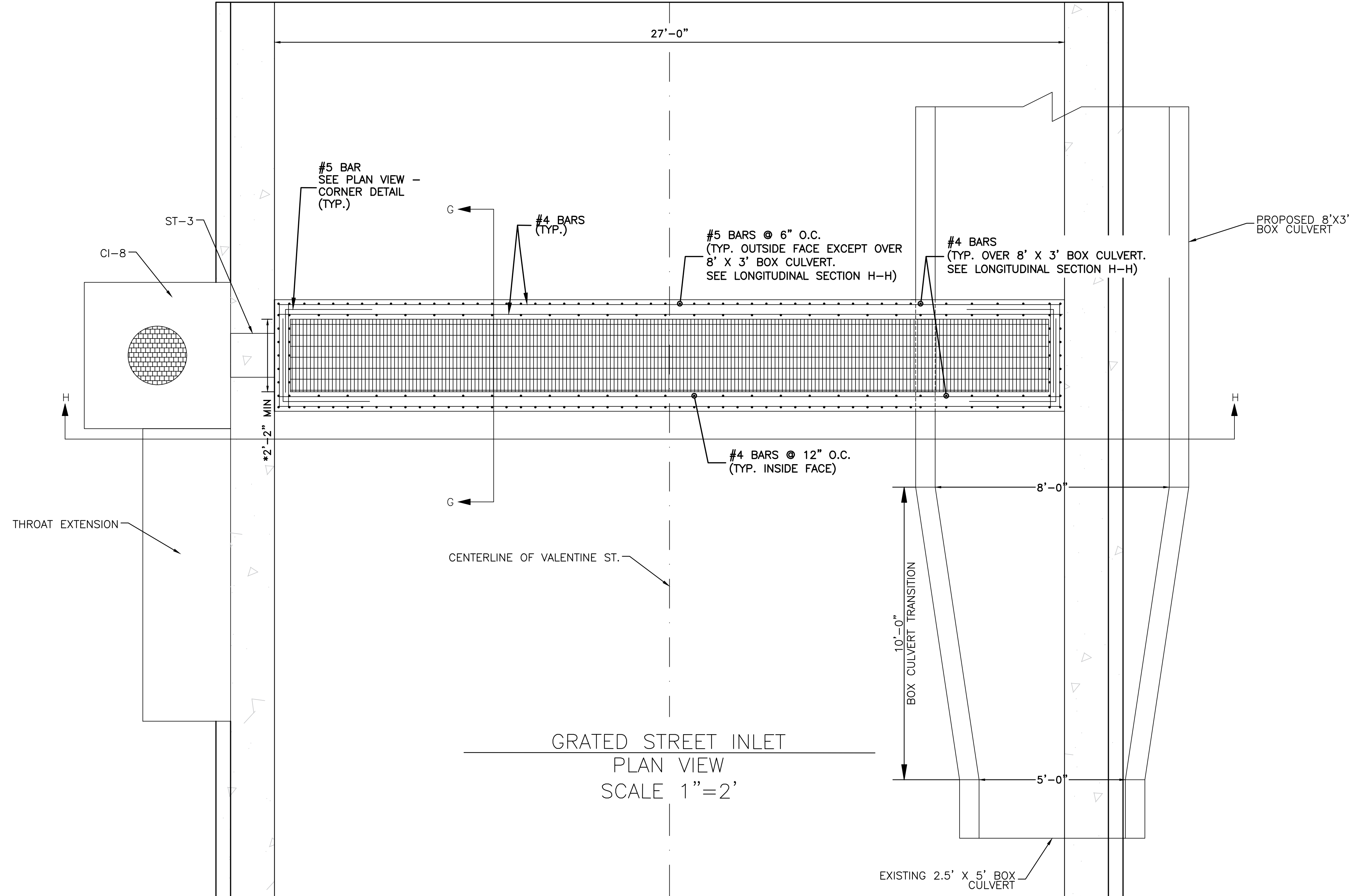
N.T.S

PROJECT NO.

03-17-DR-107

SHEET NO.

C11



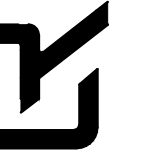
* TRENCH WIDTH SHALL BE IN ACCORDANCE
WITH MANUFACTURER'S RECOMMENDATIONS
FOR THE GRATED STREET INLET, BUT SHALL
NOT BE LESS THAN 2'-2".

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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ABH
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3-3-2025
SCALE
N.T.S
PROJECT NO.
03-17-DR-107
SHEET NO.
C13

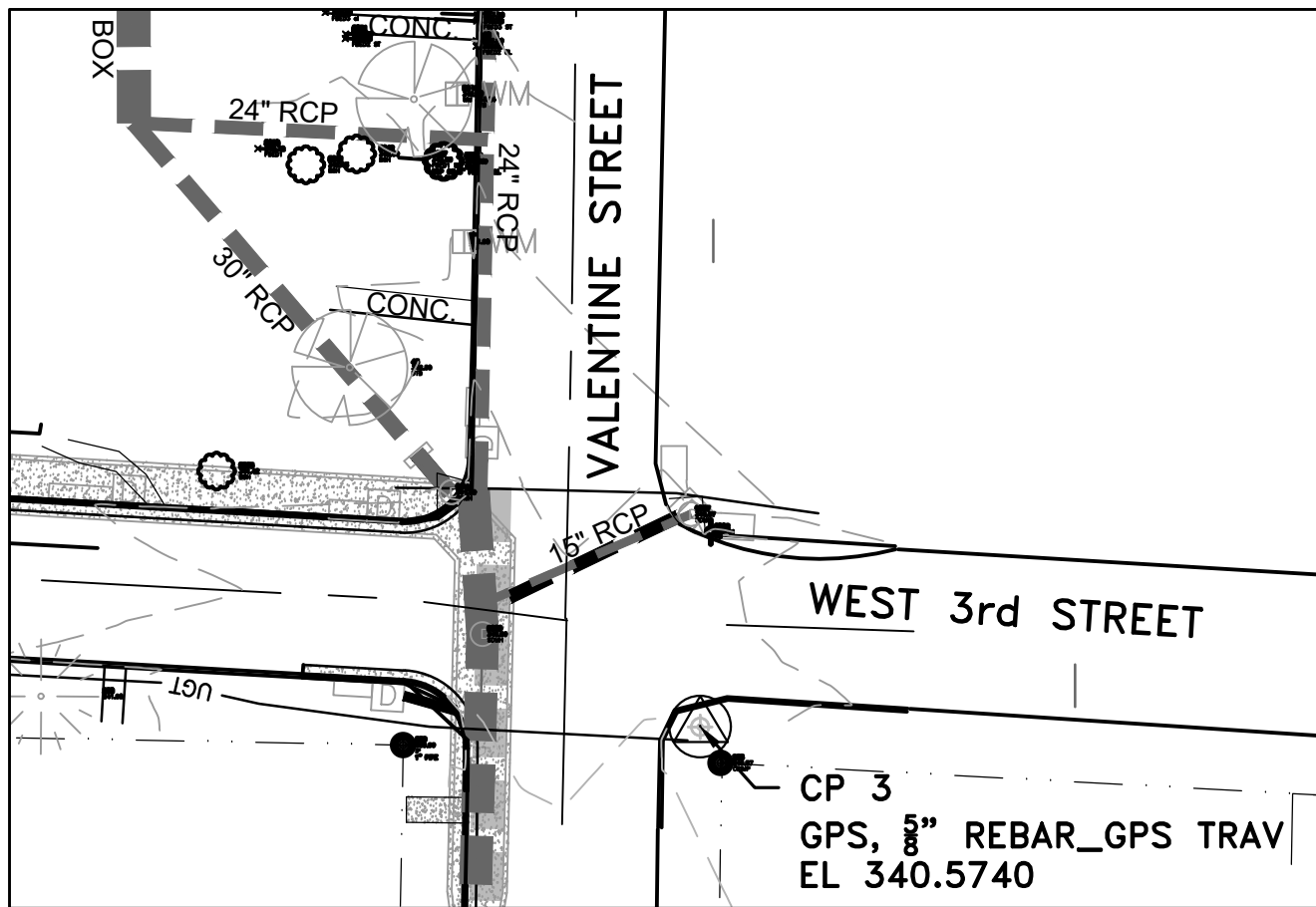
C.L. VALENTINE STREET			
STA.	TYPE	NORTHING	EASTING
50+00.00	BP	151465.2824	1218216.9646
52+00.00	PI	151265.3099	1218213.6510
53+50.00	EP	151115.3605	1218209.7534

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



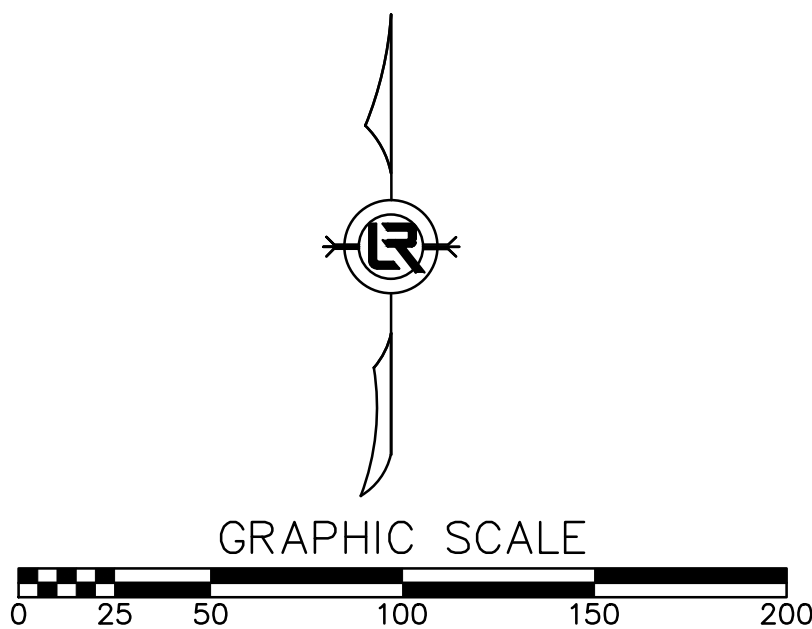
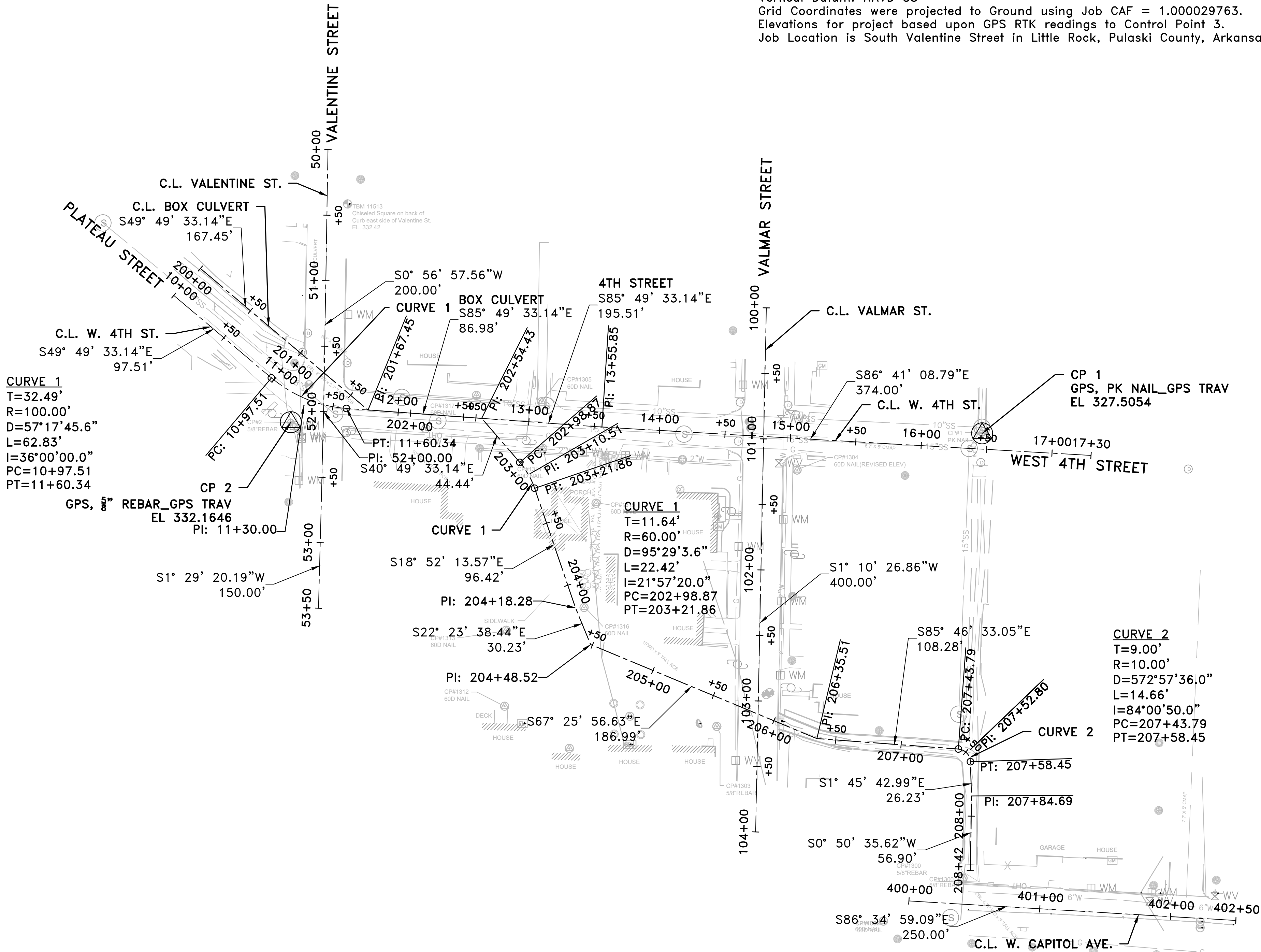
SURVEY BENCHMARKS				
NO.	DESCRIPTION	NORTHING	EASTING	ELEV.
1	GPS, PK NAIL_GPS TRAV	151248.7634	1218716.2452	327.5054
2	GPS, 5/8" REBAR_GPS TRAV	151257.2462	1218188.5595	332.1646
3	GPS, 5/8" REBAR_GPS TRAV	151748.0133	1218244.0700	340.5740

Basis of Bearings:
All Coordinates are Ground.
For Stakeout use CF = 1.000000000
Job CAF = 1.000029763
Job CAF was established at Control Point 2.
Convergence Angle at Control Point 2 is 00°10'56.20651\"/>



CONTROL POINT

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

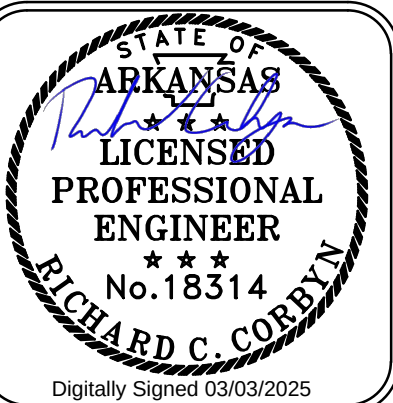


REVISIONS	DATE

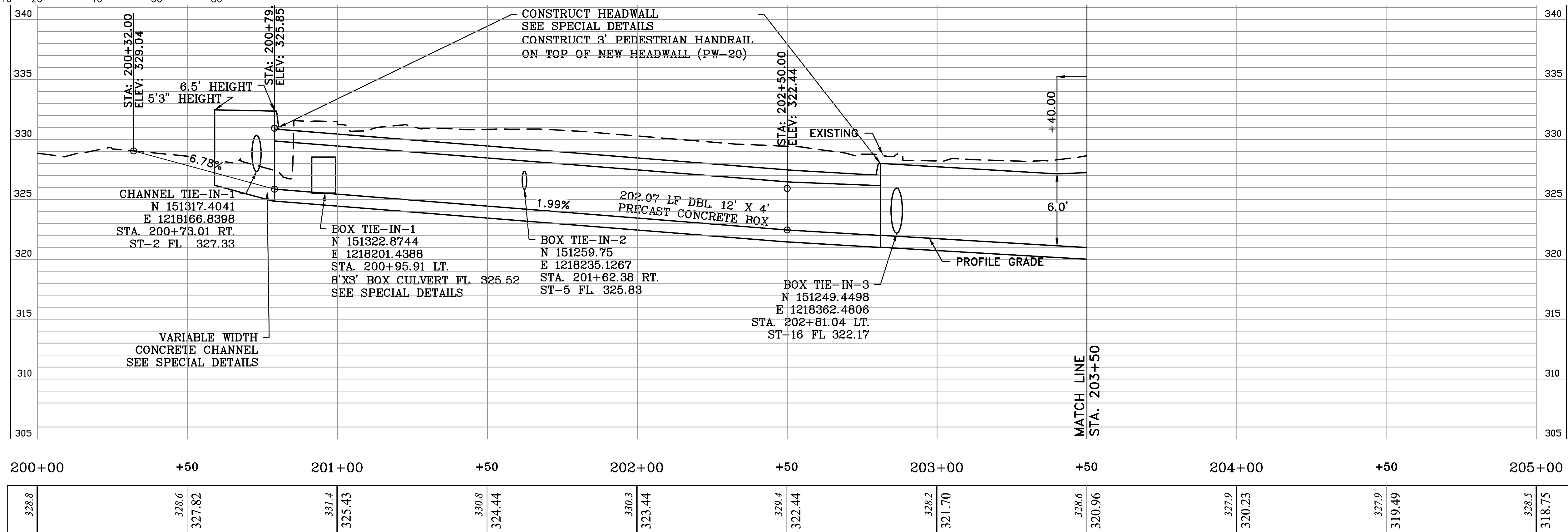
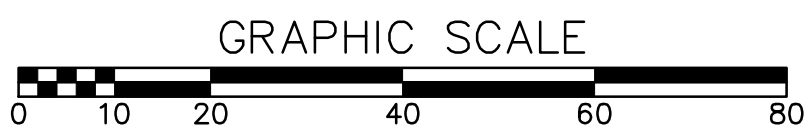
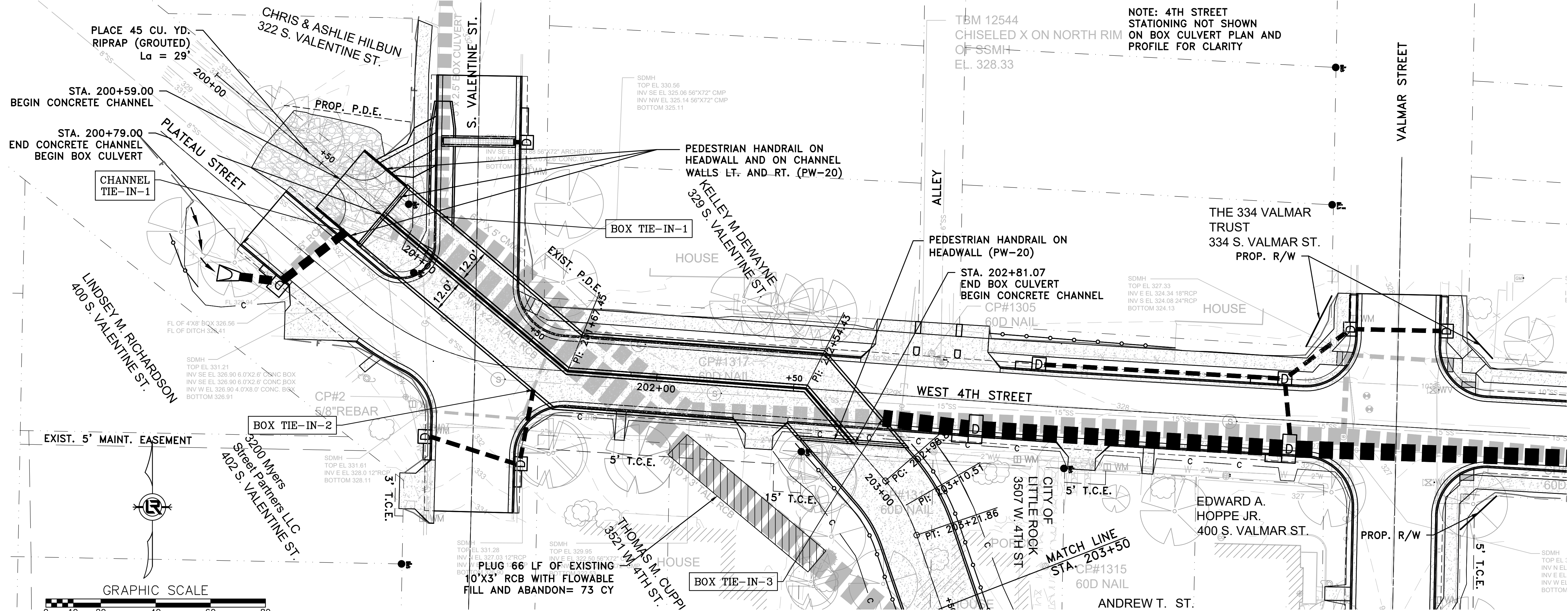
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

FIELD TIES / LAYOUT

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



DRAWN BY TCP
DESIGNED RCC
CHECKED RCC
DATE 3-3-2025
SCALE H: 1"=50' V: 1"=50'
PROJECT NO. 03-17-DR-107
SHEET NO. C15



BOX CULVERT AND DRAINAGE CHANNEL

REVISIONS	DATE

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

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM

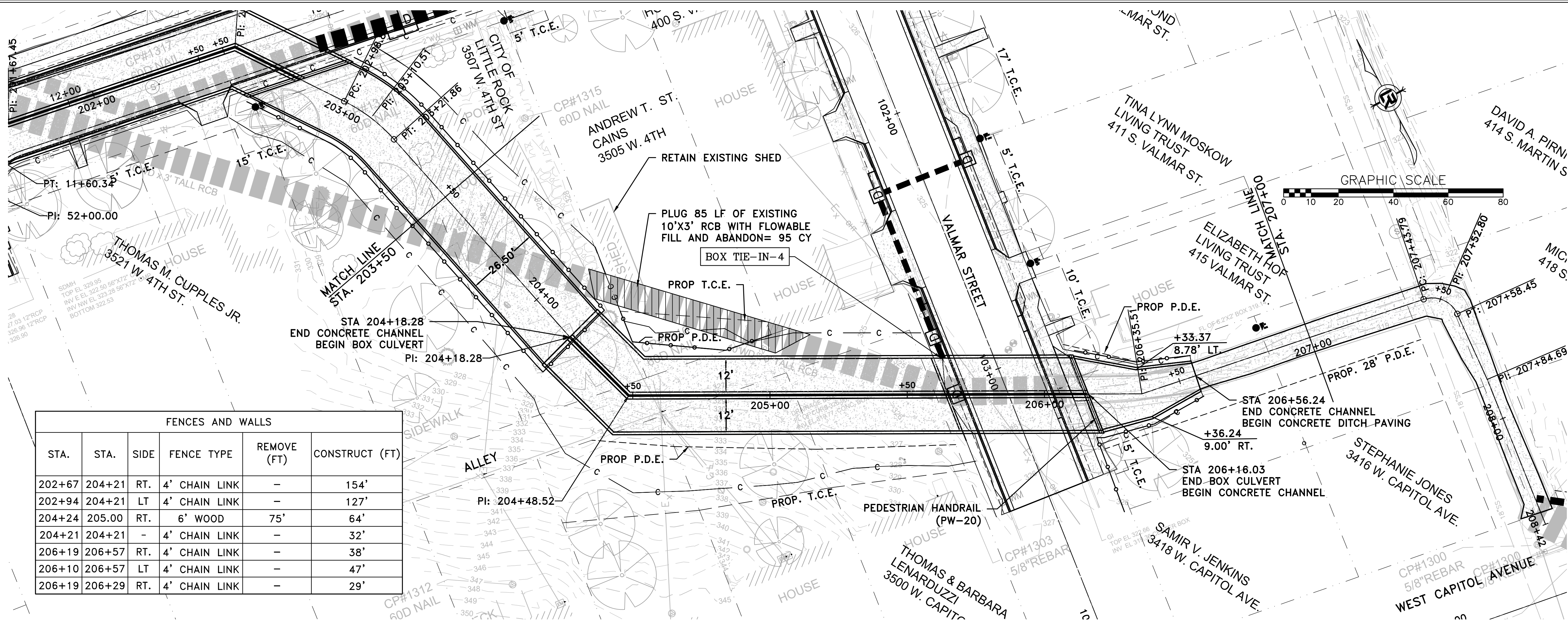


LITTLE ROCK, ARKANSAS 72201



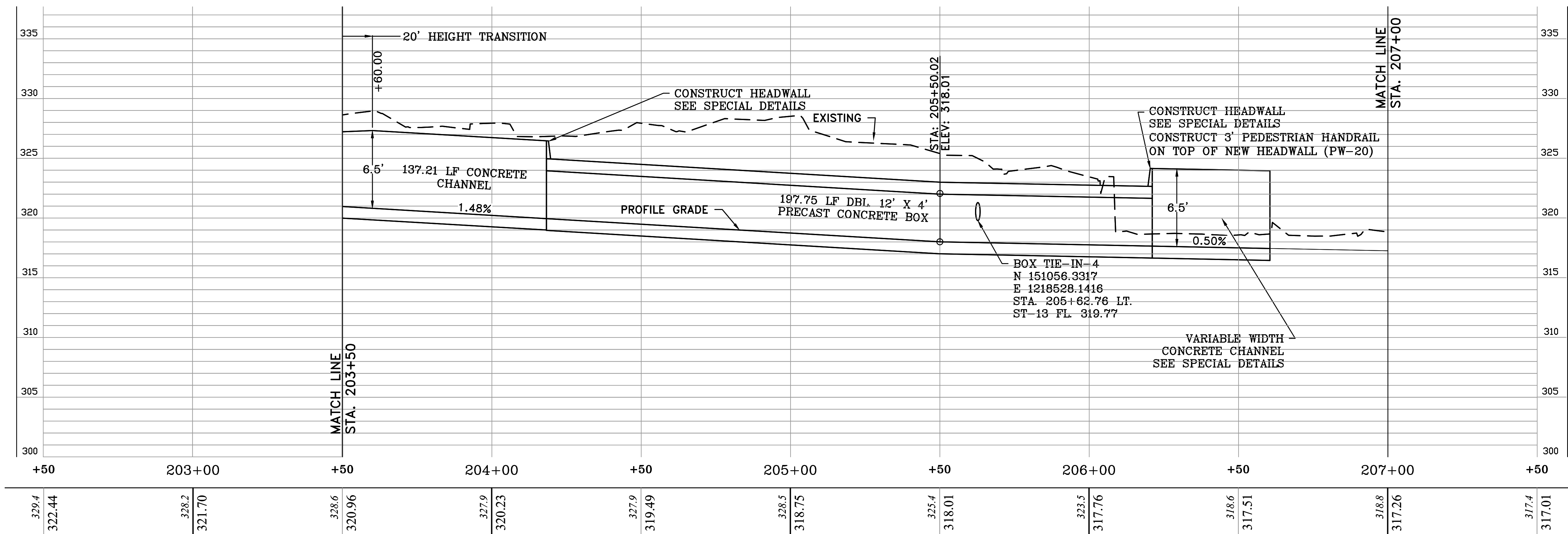
DRAWN BY
TCP
DESIGNED
RCC
CHECKED
RCC
DATE
3-3-2025
SCALE
H: 1"=20'
V: 1"=5'
PROJECT NO.
03-17-DR-107

SHEET NO.
C16



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 2
PLAN & PROFILE - STA 203+50 TO STA 207+00

DEPARTMENT OF PUBLIC WORKS

CIVIL ENGINEERING

701 W. MARKHAM

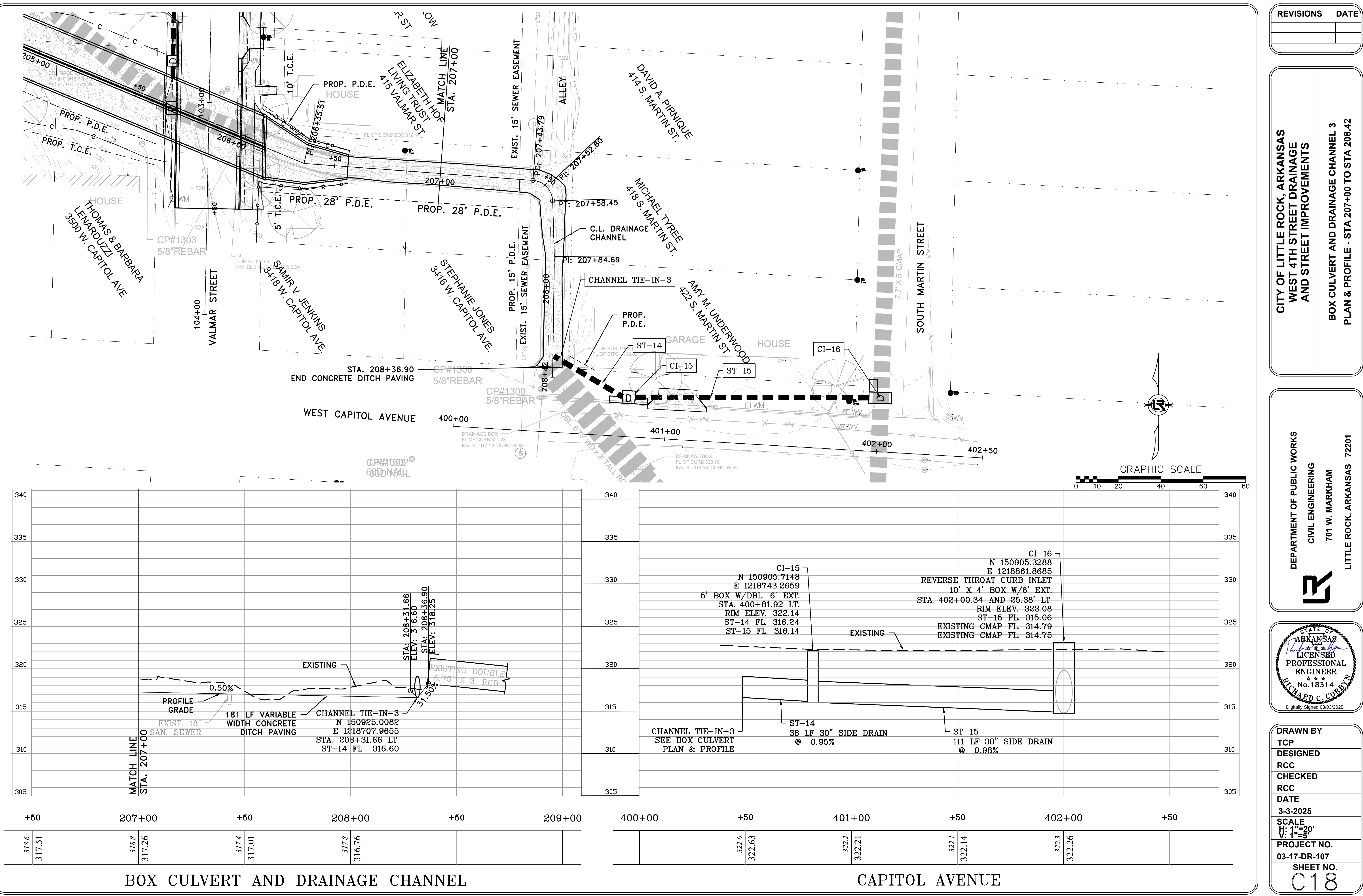
LITTLE ROCK, ARKANSAS 72201



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TCP
DESIGNED
RCC
CHECKED
RCC
DATE
3-3-2025

SCALE
H: 1"=20'
V: 1"=5'
PROJECT NO.
03-17-DR-107

SHEET NO.
C17



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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DESIGNED RCC
CHECKED RCC
DATE 3-3-2025
SCALE H: 1"=20' V: 1"=5'
PROJECT NO. 03-17-DR-107
SHEET NO. C18

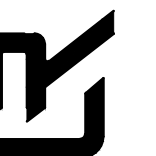
REVISIONS	DATE
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**CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS**

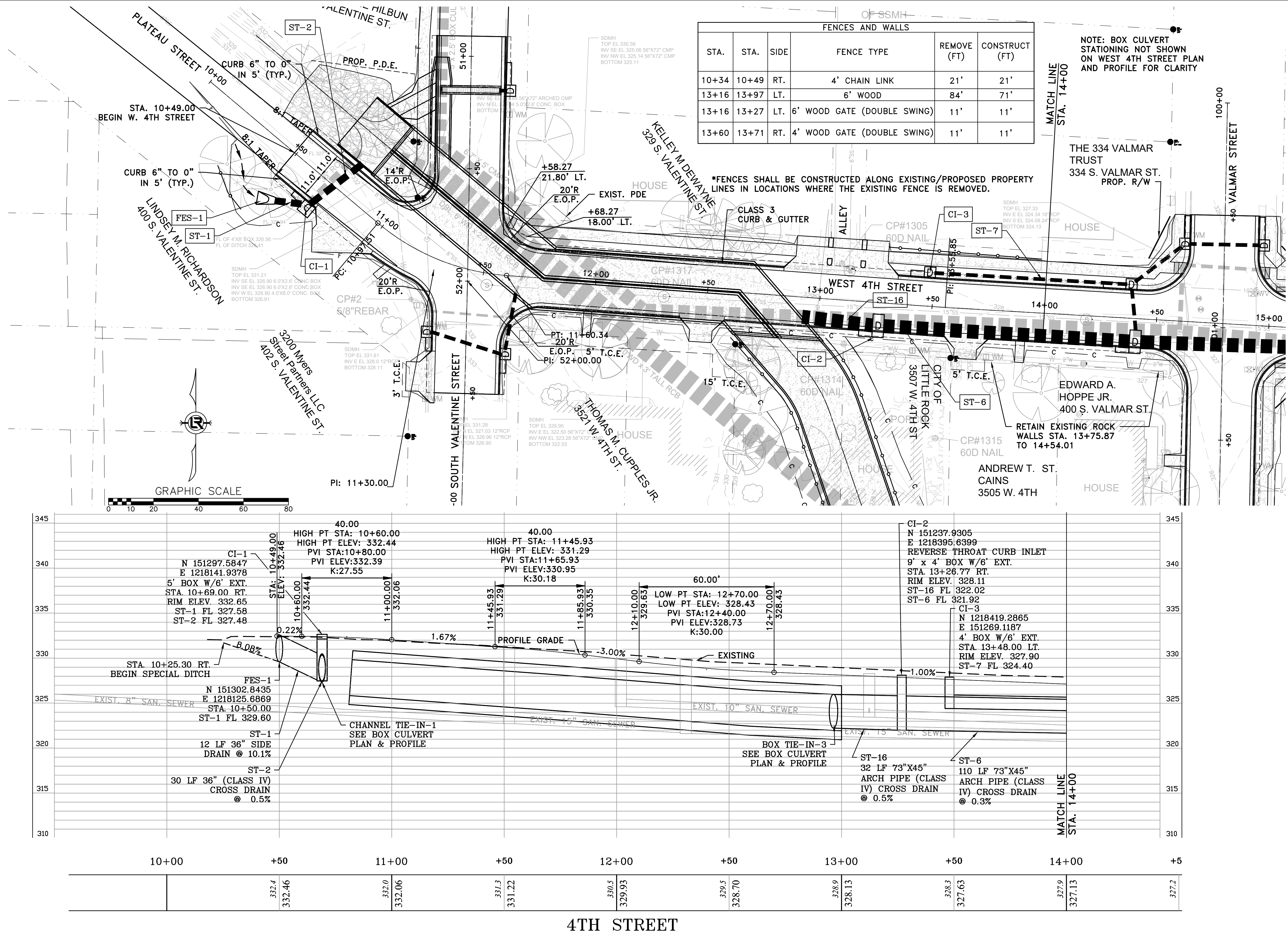
WEST 41H STREET
PLAN & PROFILE - STA 10+00 TO STA 14+00

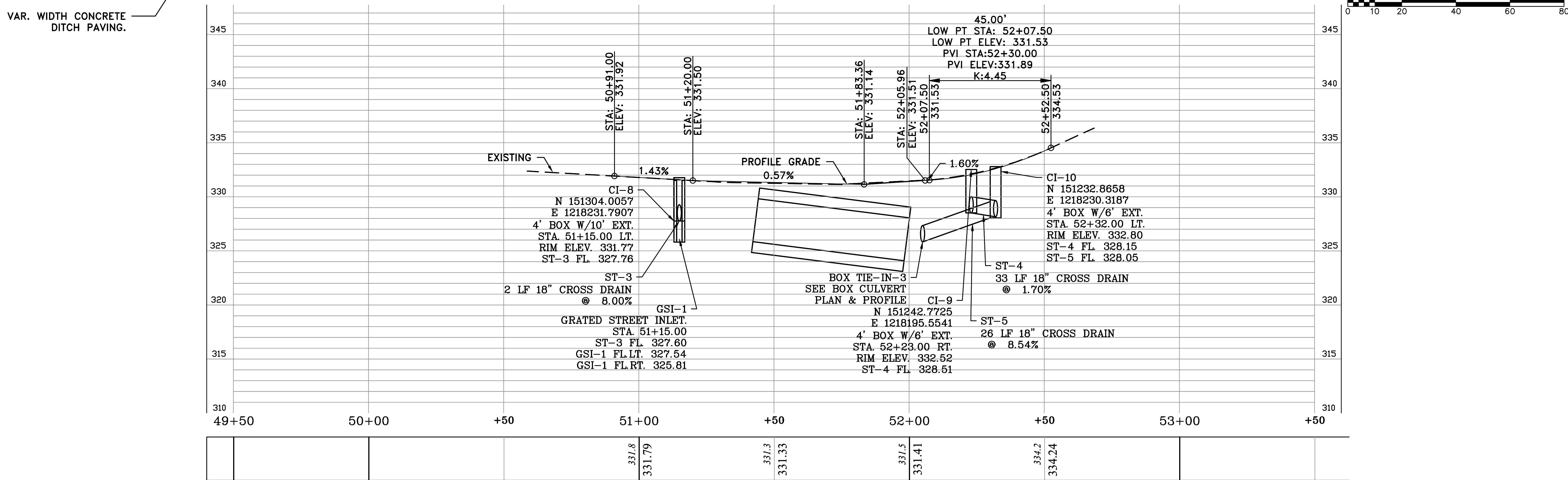
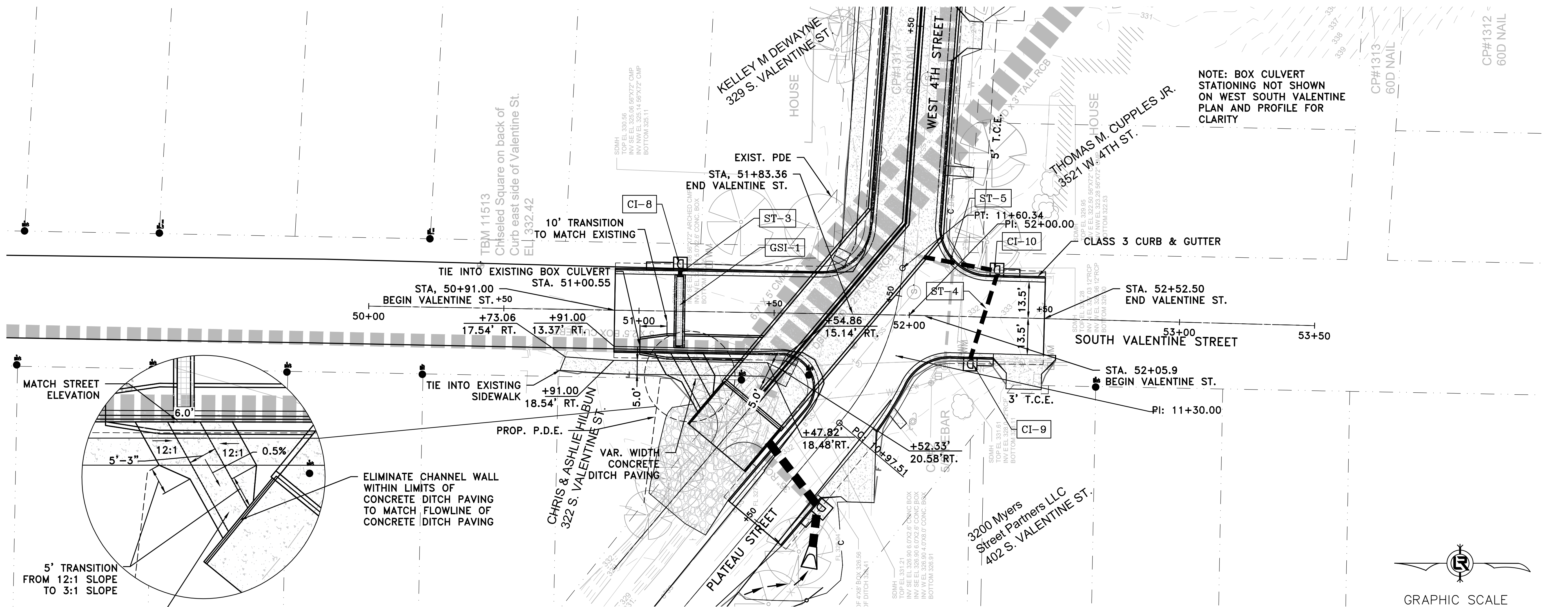
DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING

LITTLE ROCK, ARKANSAS 72201



DRAWN BY	TCP
DESIGNED	RCC
CHECKED	RCC
DATE	3-3-2025
SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	03-17-DR-107
SHEET NO.	C19





VALENTINE STREET

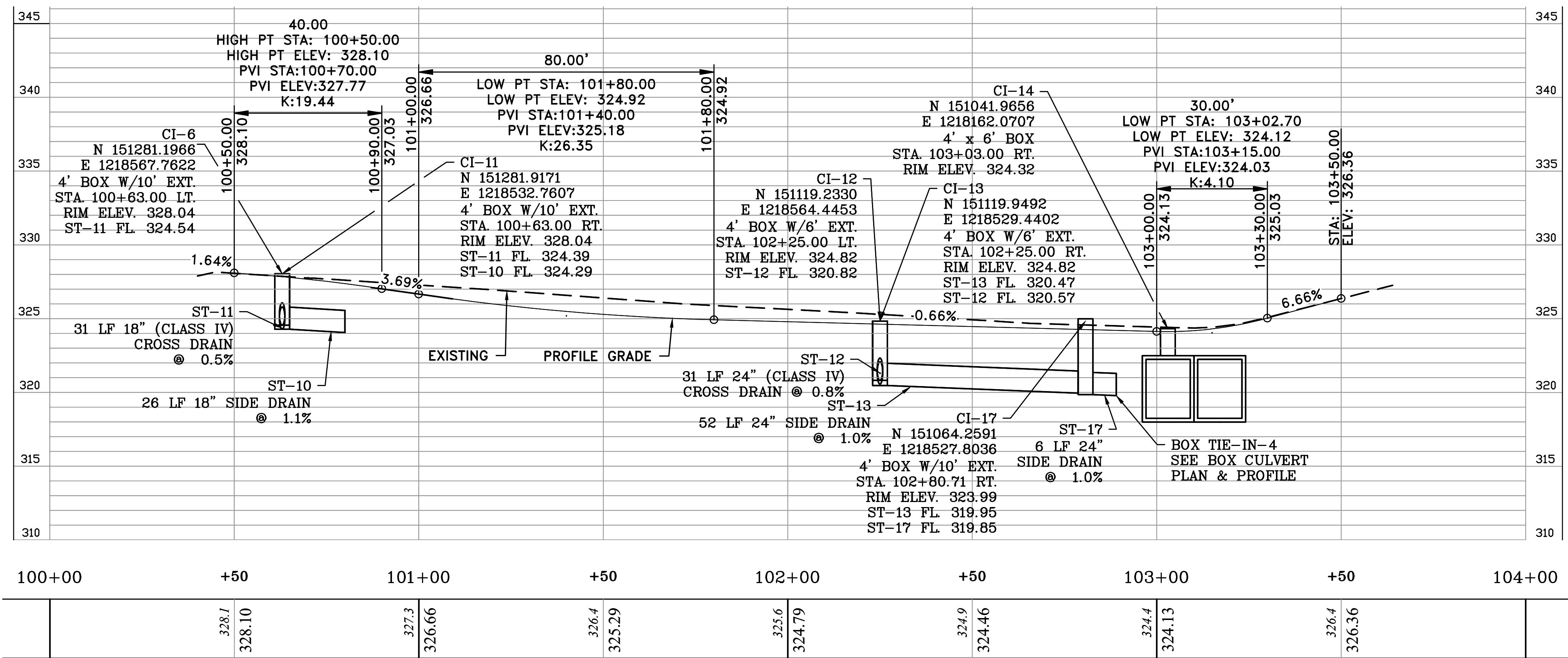
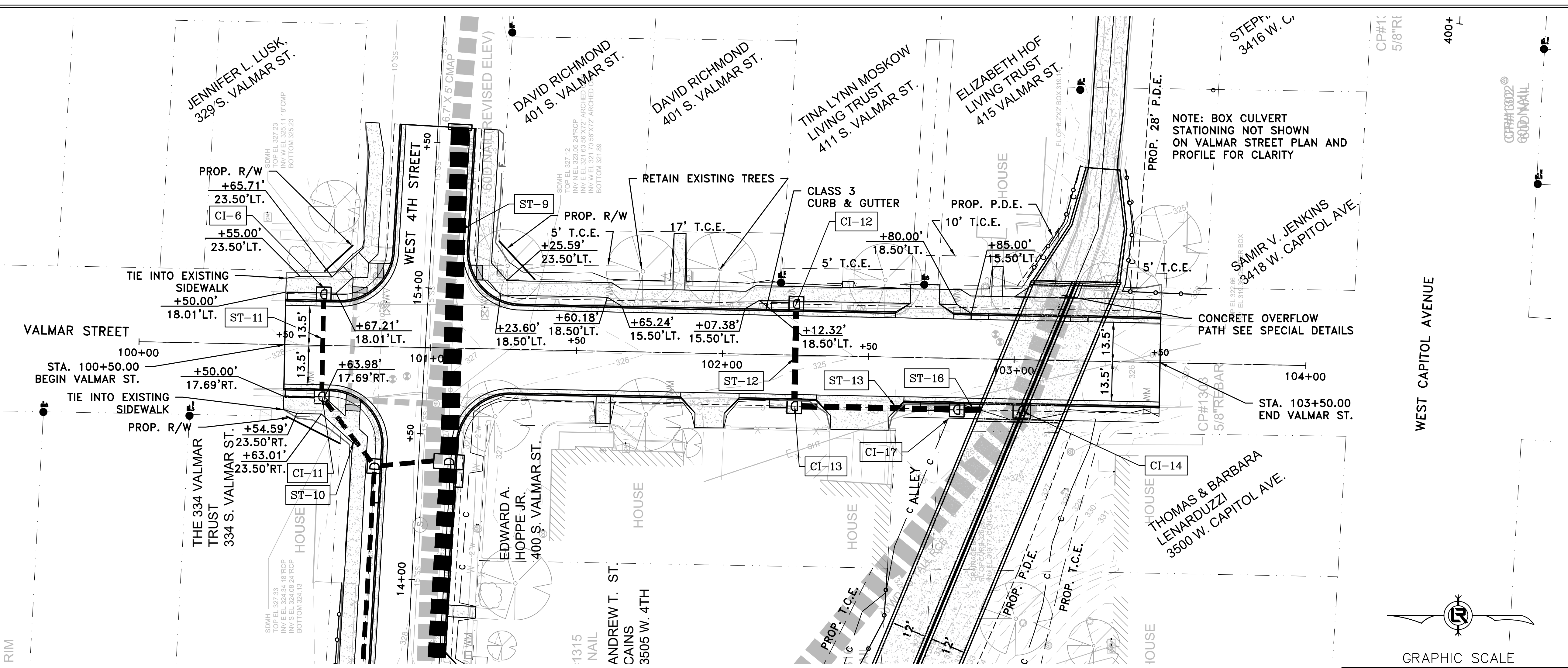
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS
SOUTH VALENTINE STREET
PLAN & PROFILE - STA 50+00 TO STA 53+50

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RCC
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RCC
DATE
3-3-2025
SCALE
H: 1"=20'
V: 1"=5'
PROJECT NO.
03-17-DR-107
SHEET NO.
C21



VALMAR STREET

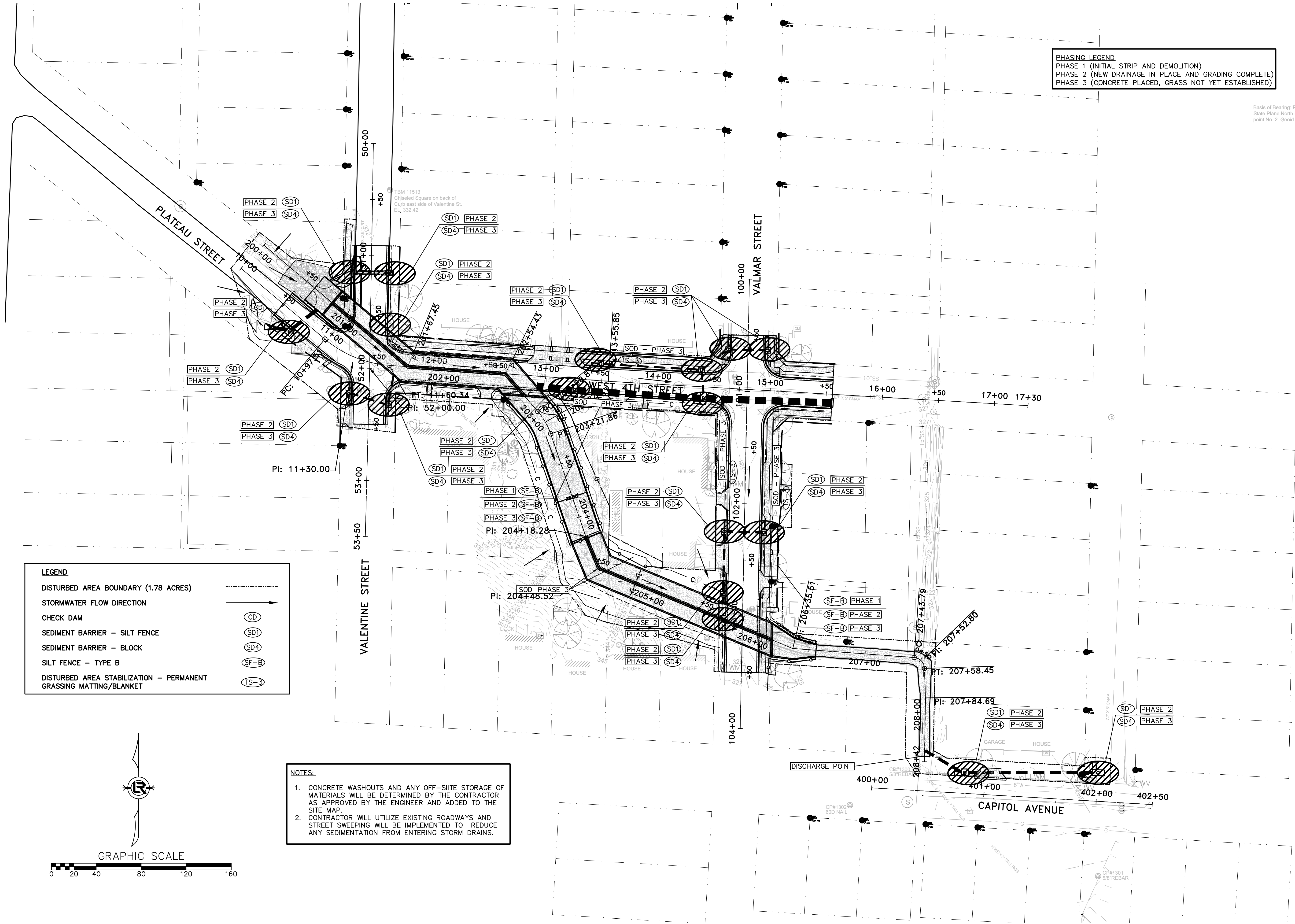
REVISIONS
DATE

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

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

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18314
RICHARD C. CORBY
Digitally Signed 03/03/2025

DRAWN BY
TCP
DESIGNED
RCC
CHECKED
RCC
DATE
3-3-2025
SCALE
H: 1"=20'
V: 1"=5'
PROJECT NO.
03-17-DR-107
SHEET NO.
C22



REVISIONS	DATE

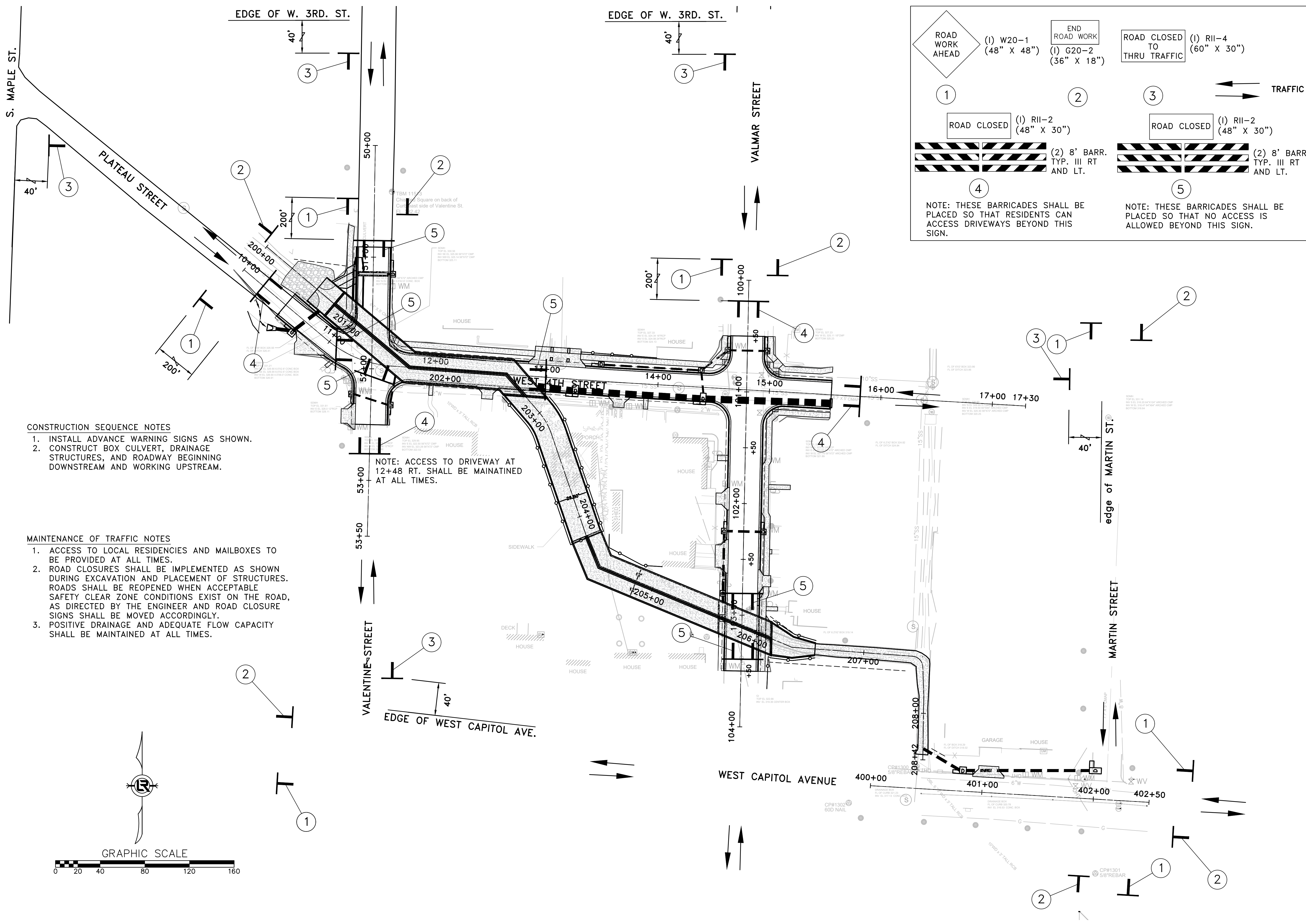
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

EROSION CONTROL

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



DRAWN BY
TCP
DESIGNED
RCC
CHECKED
RCC
DATE
3-3-2025
SCALE
H: 1"=40'
V: 1"=40'
PROJECT NO.
03-17-DR-107
SHEET NO.
C23

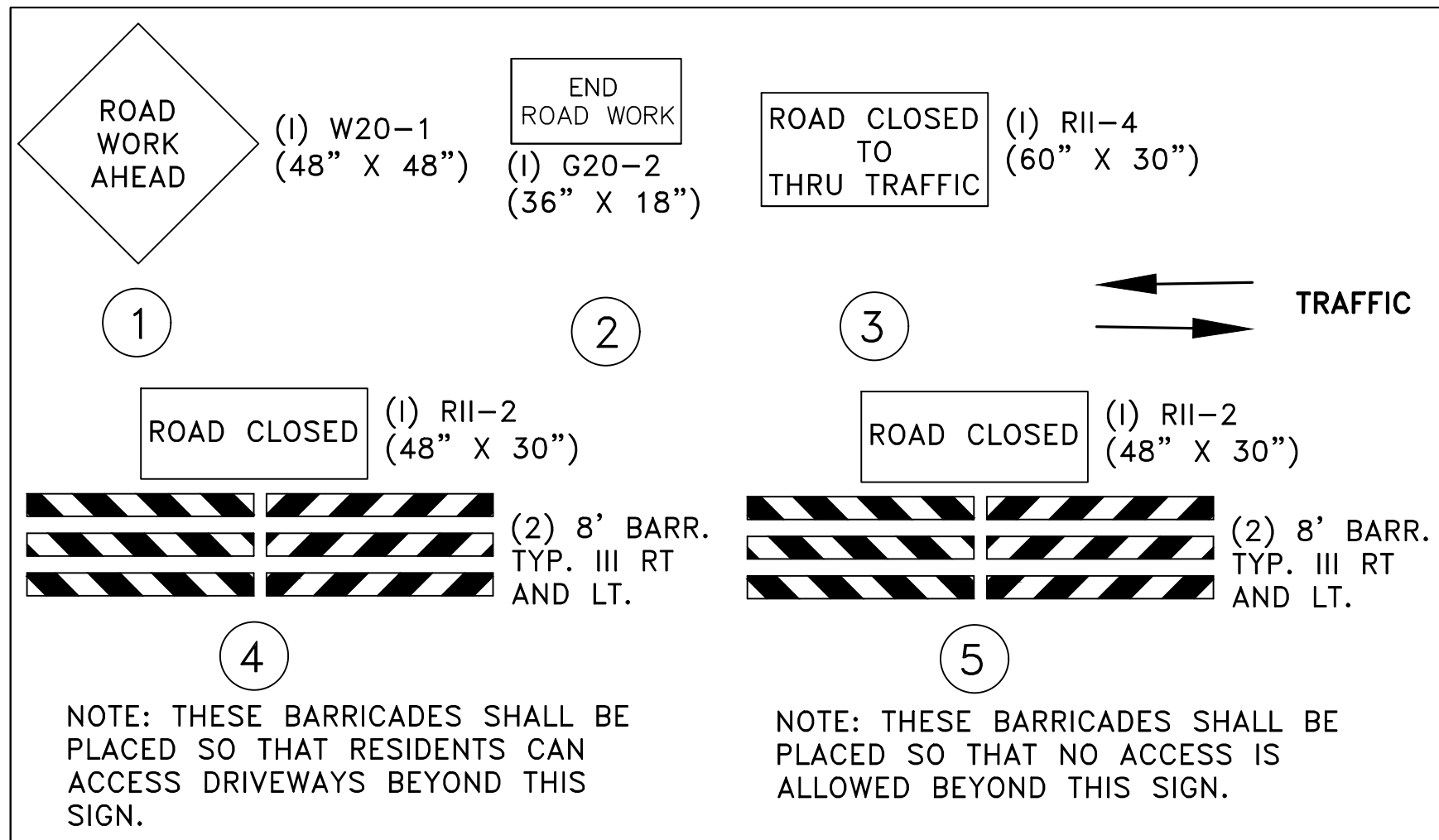


CONSTRUCTION SEQUENCE NOTES

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.



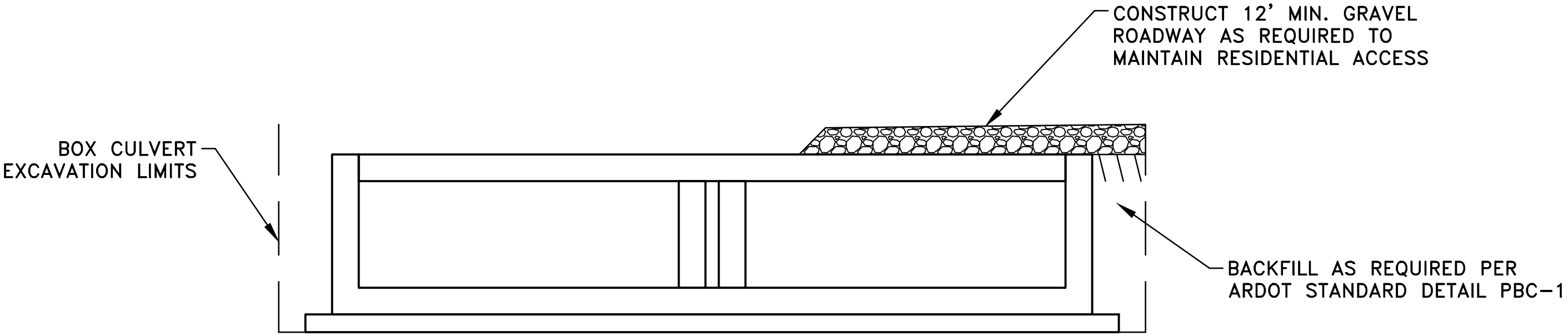
REVISIONS	DATE

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

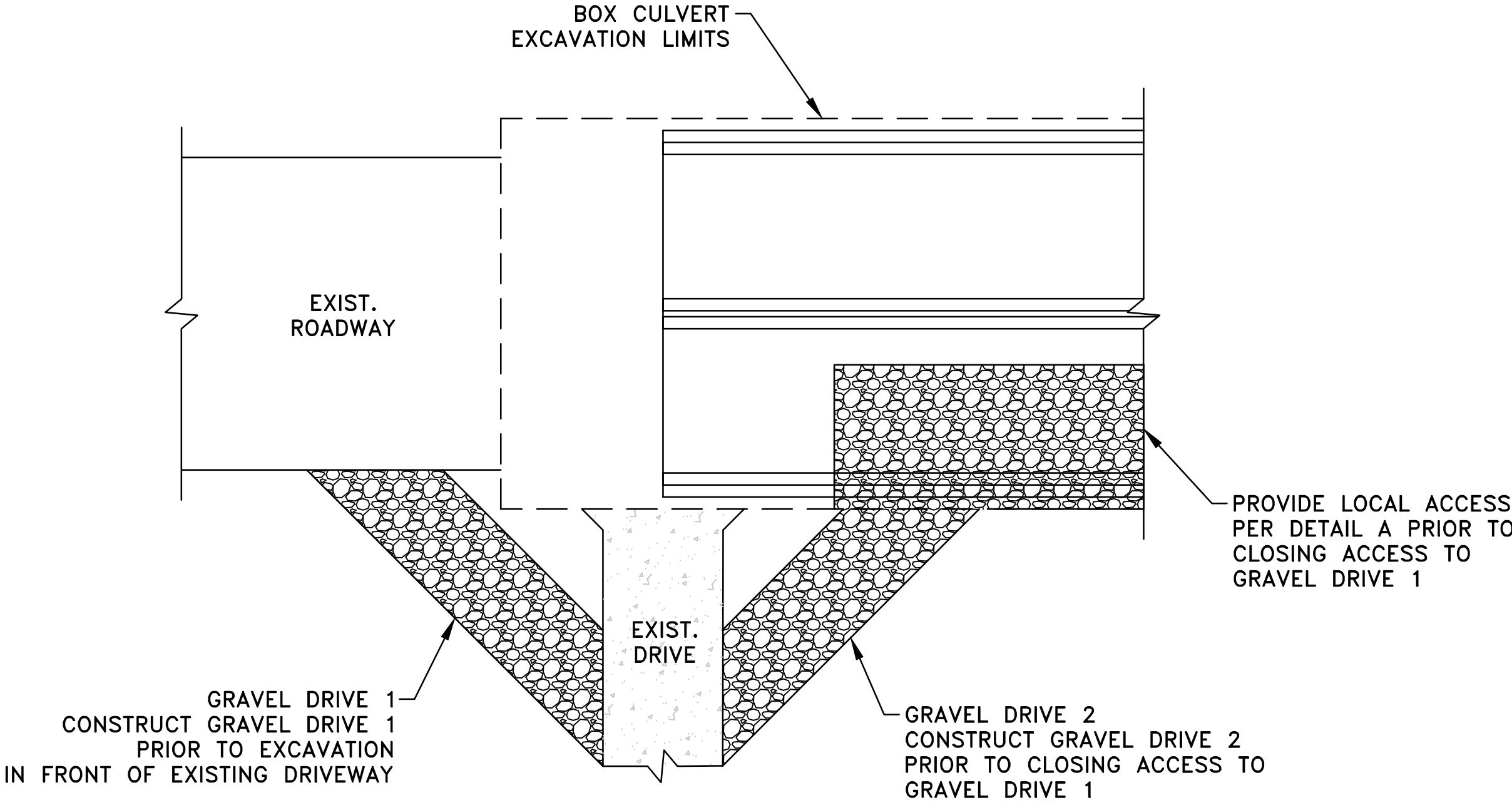
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18314
RICHARD C. CORBYN
Digitally Signed 03/03/2025

DRAWN BY
TCP
DESIGNED
RCC
CHECKED
RCC
DATE
3-3-2025
SCALE
H: 1"=40'
V: 1"=40'
PROJECT NO.
03-17-DR-107
SHEET NO.
C24



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

REVISIONS	DATE

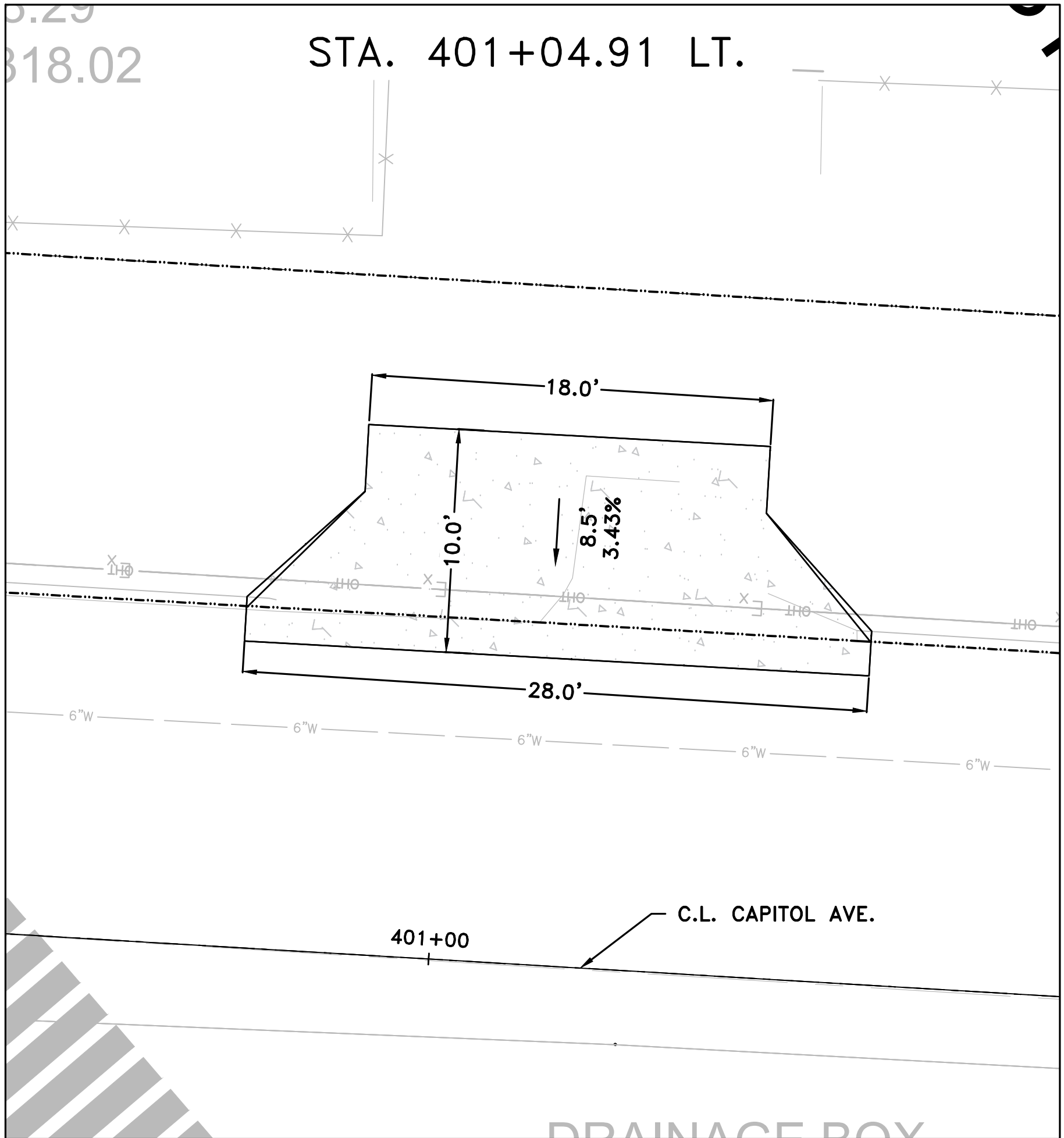
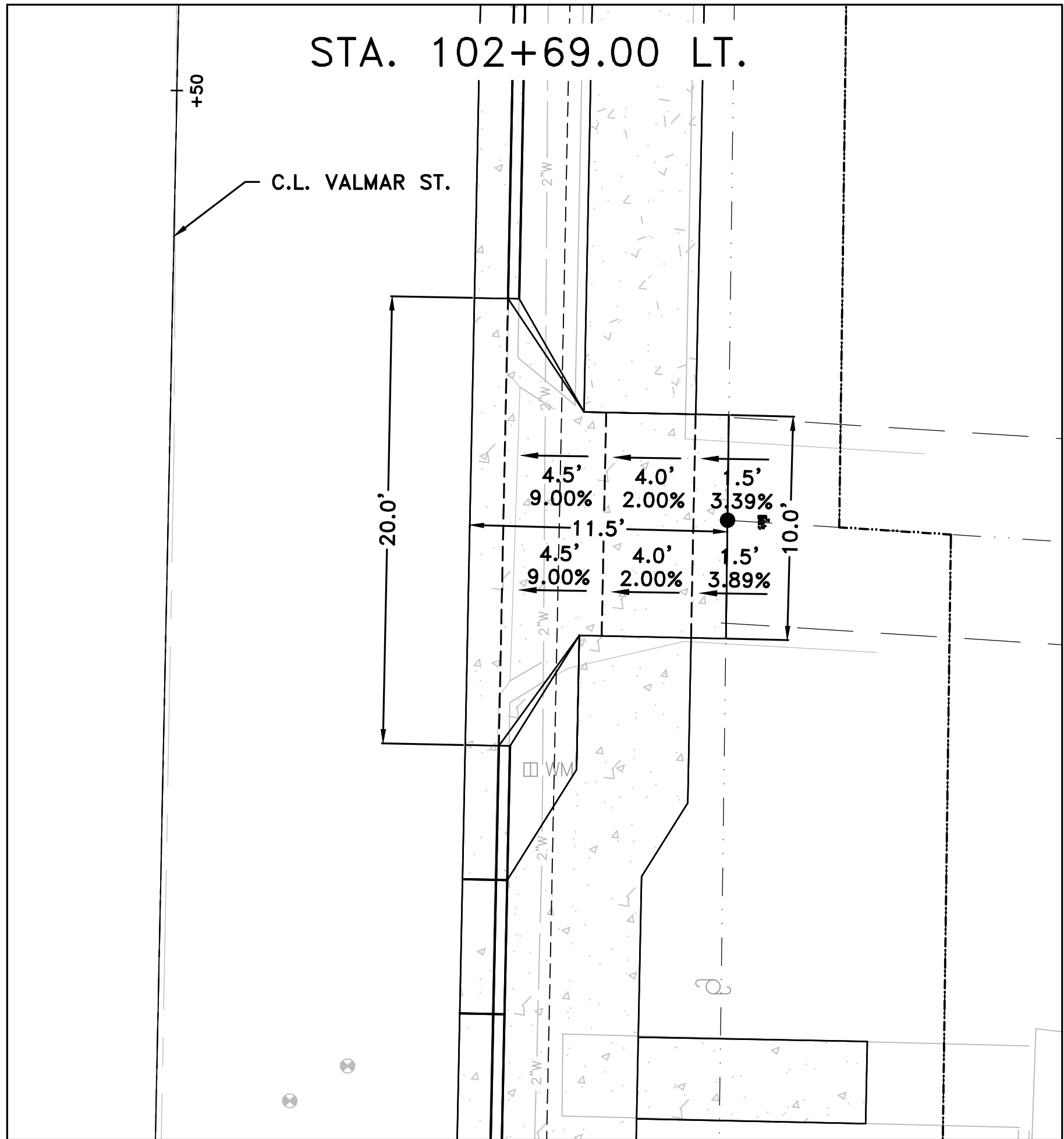
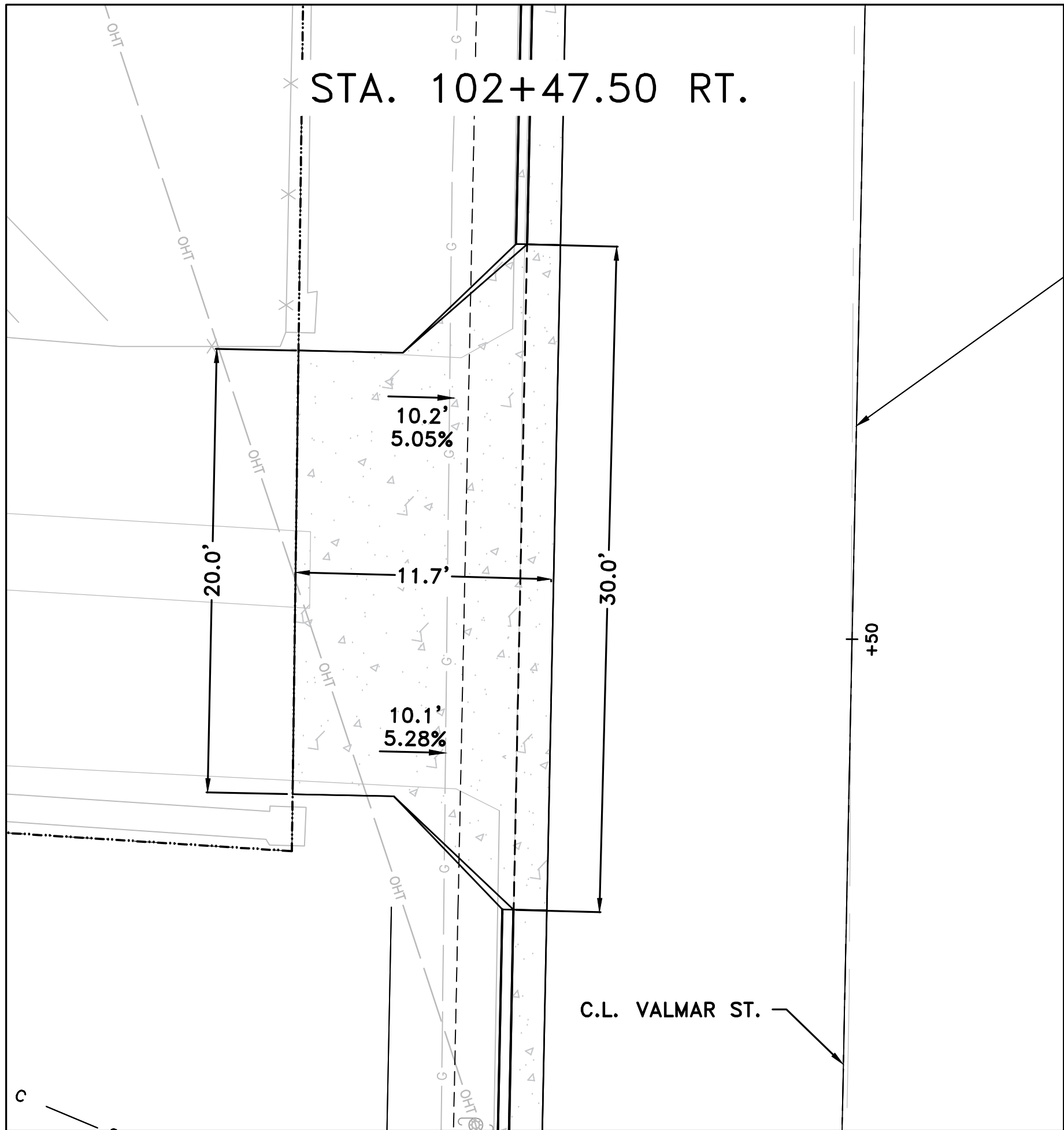
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

MAINTENANCE OF TRAFFIC

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



DRAWN BY TCP
DESIGNED RCC
CHECKED RCC
DATE 3-3-2025
SCALE H: 1"=40' V: 1"=40'
PROJECT NO. 03-17-DR-107
SHEET NO. C25



REVISIONS	DATE

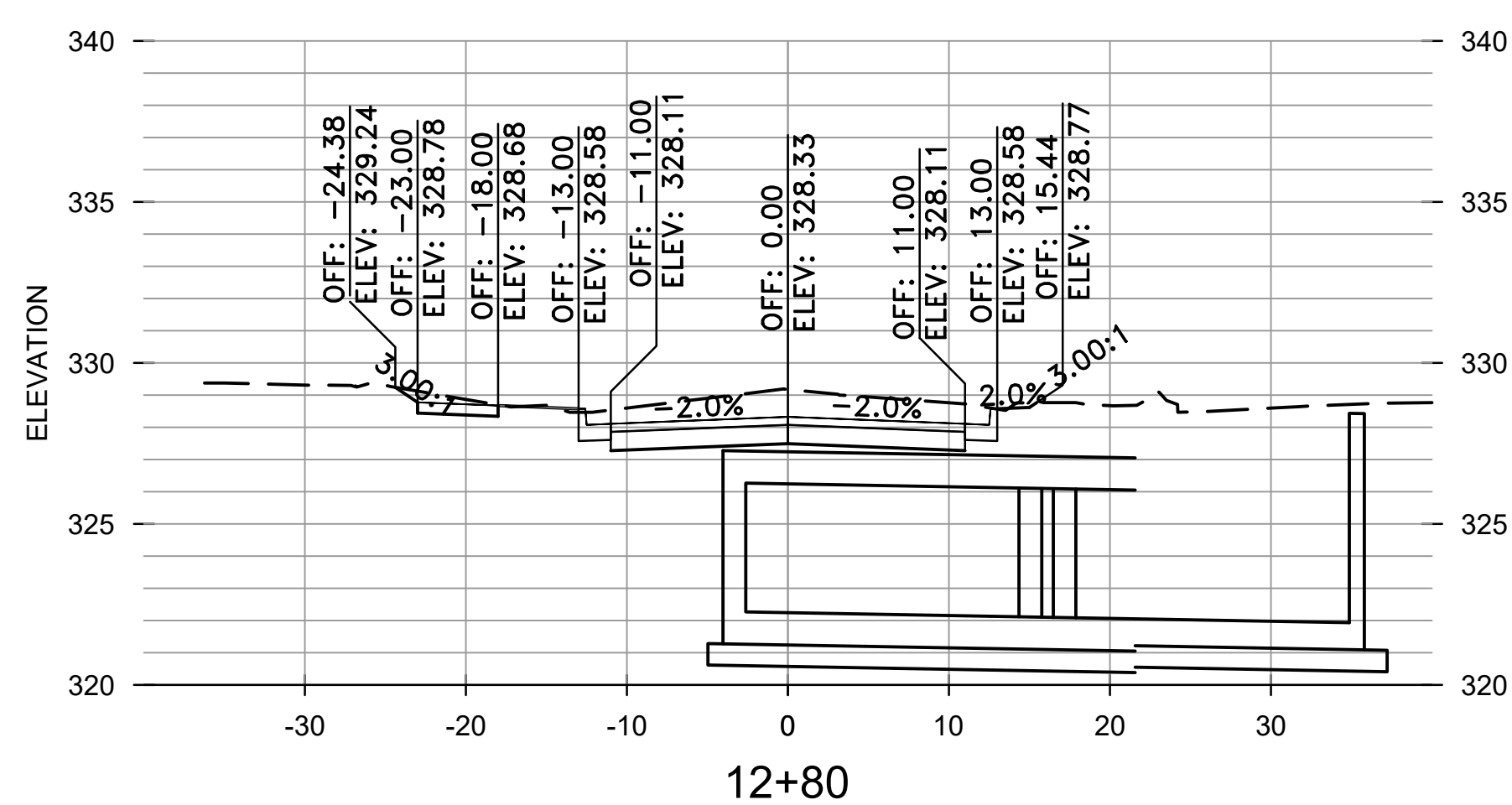
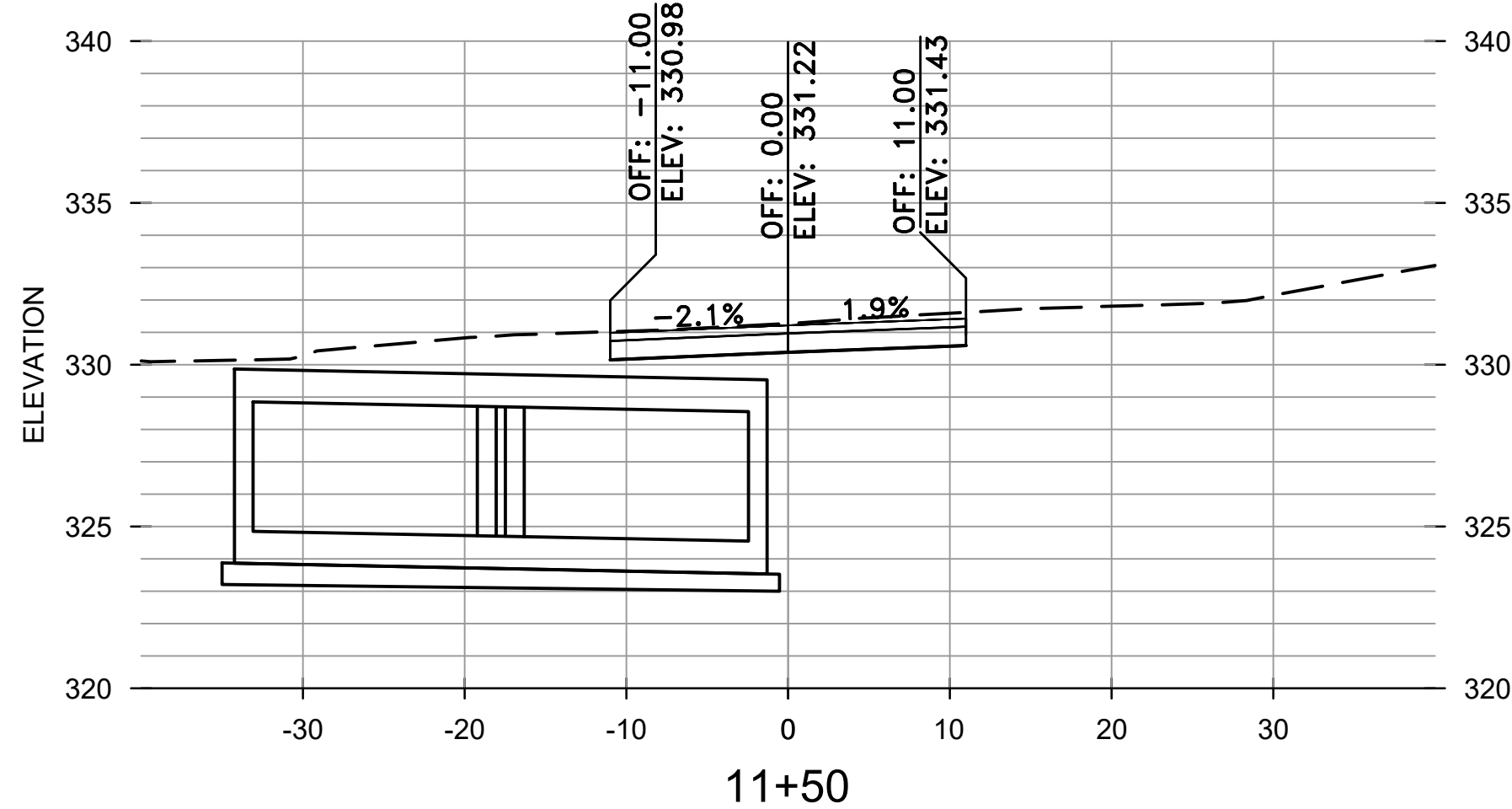
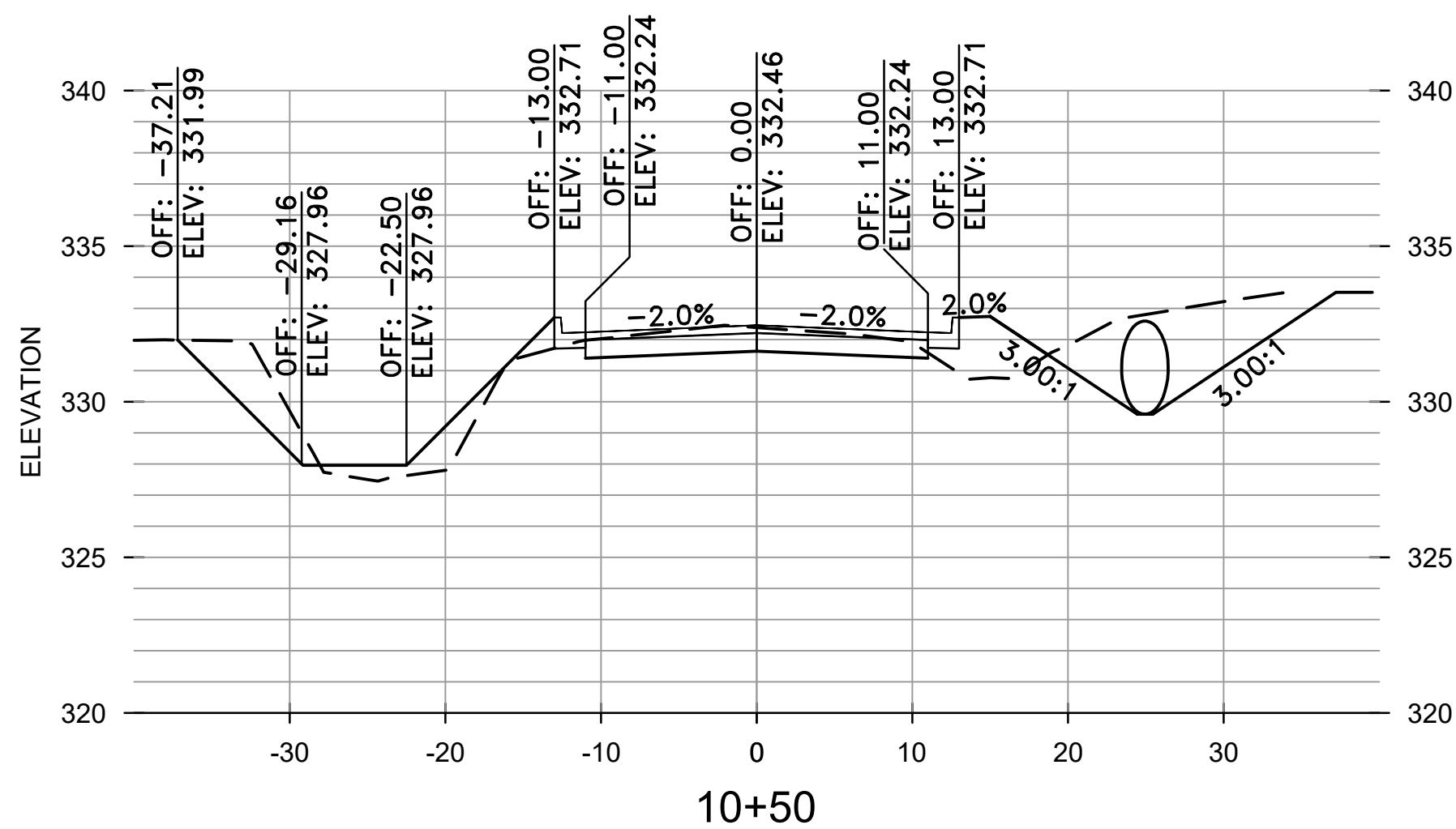
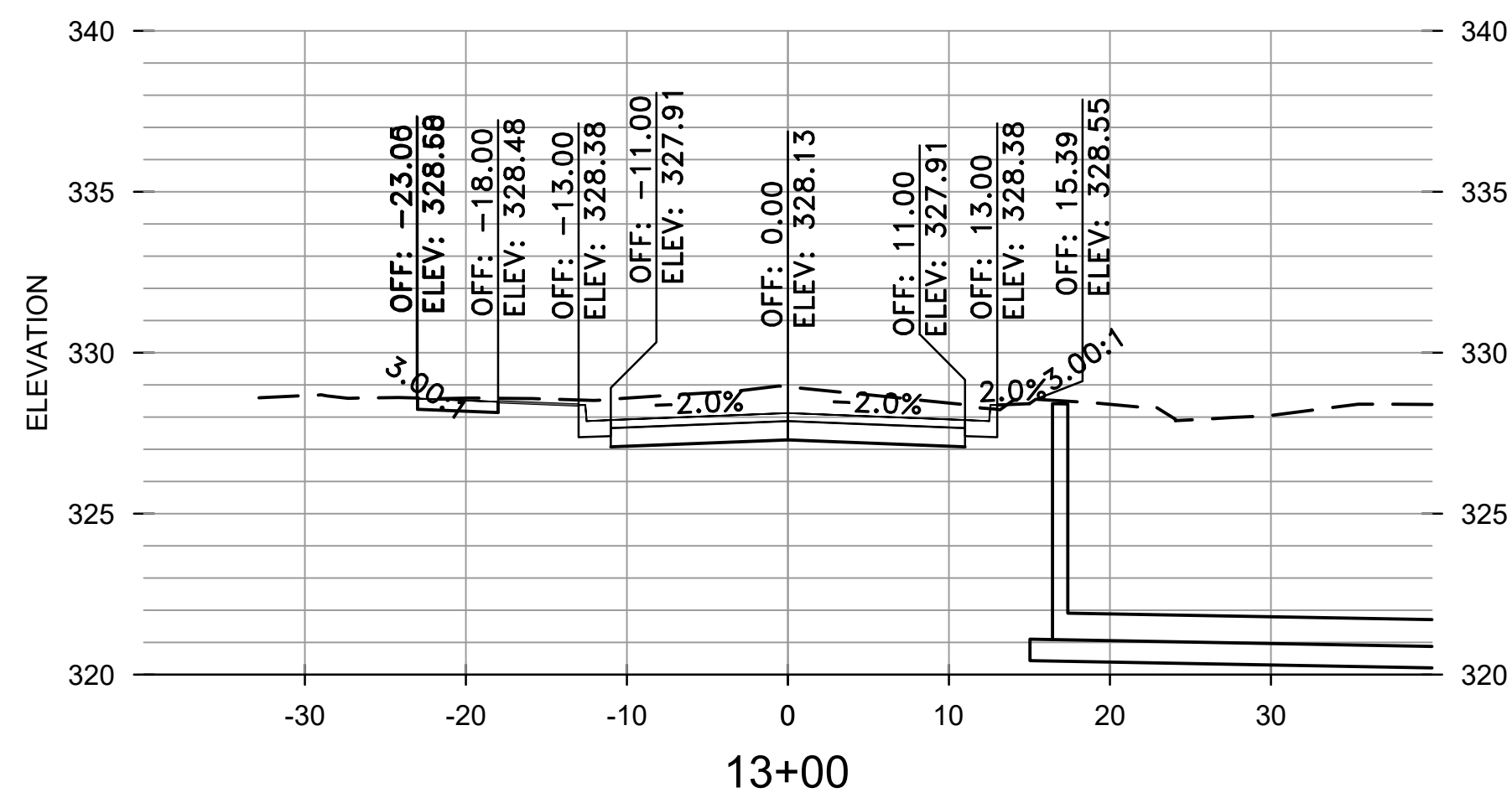
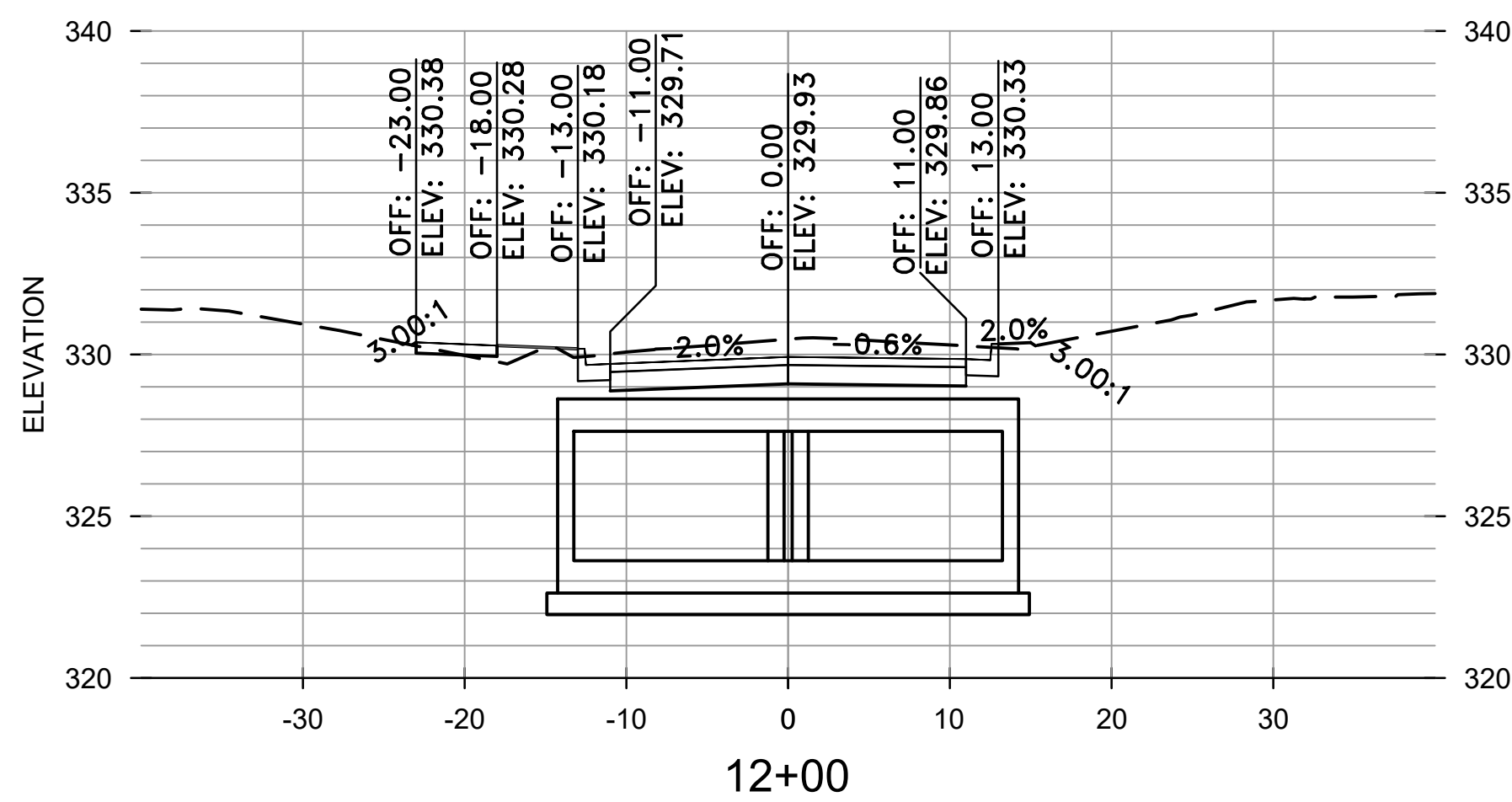
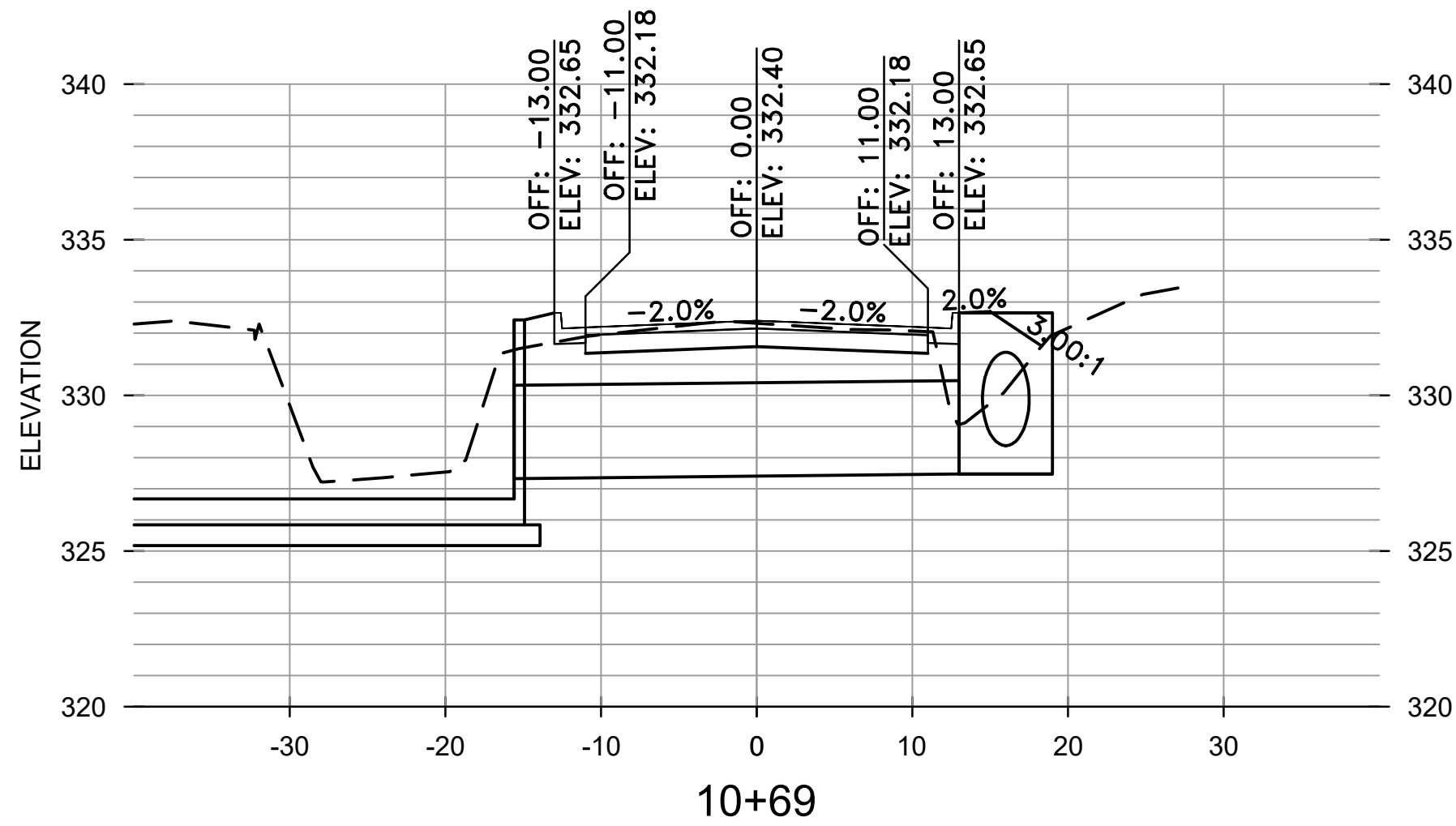
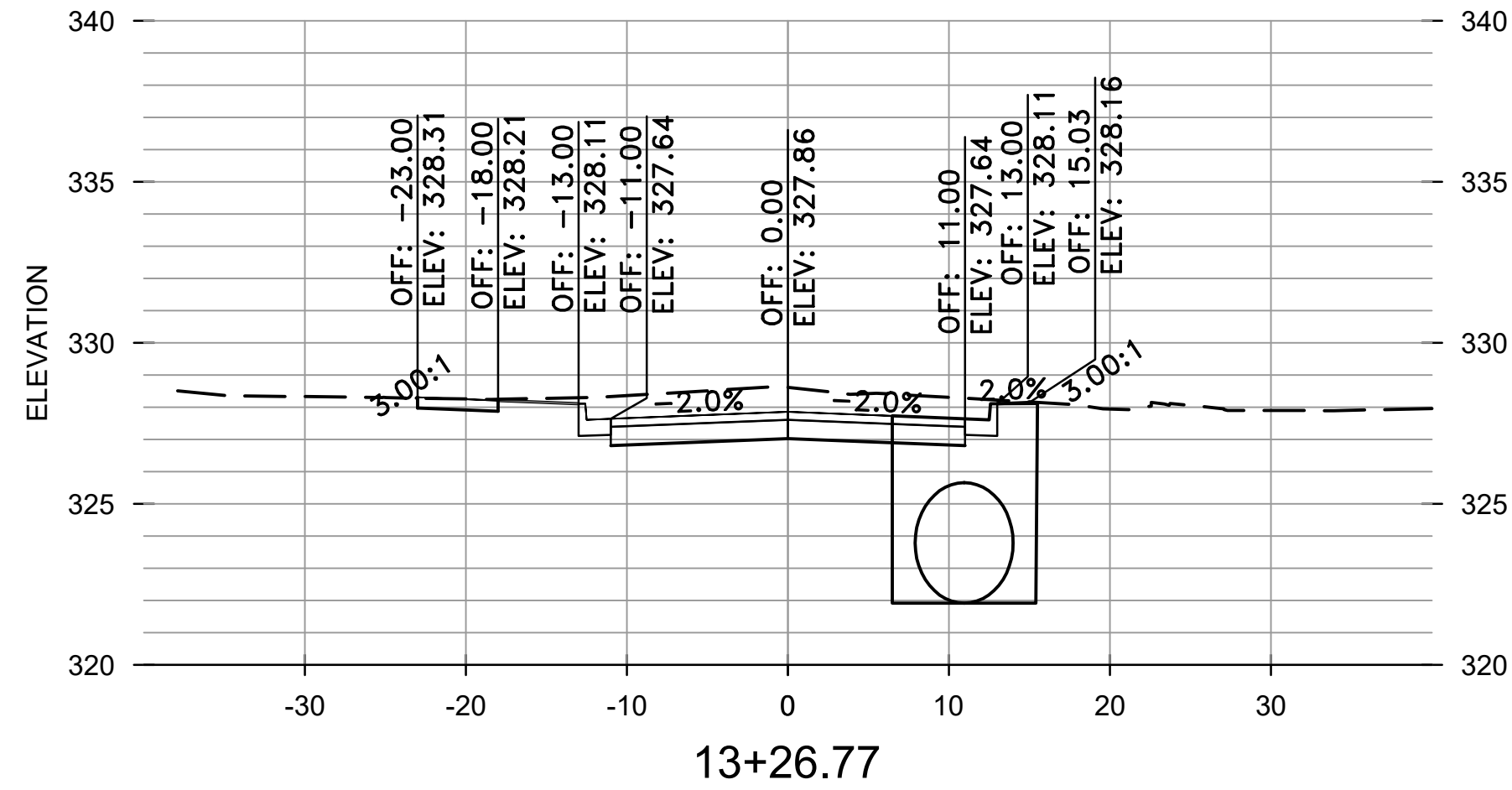
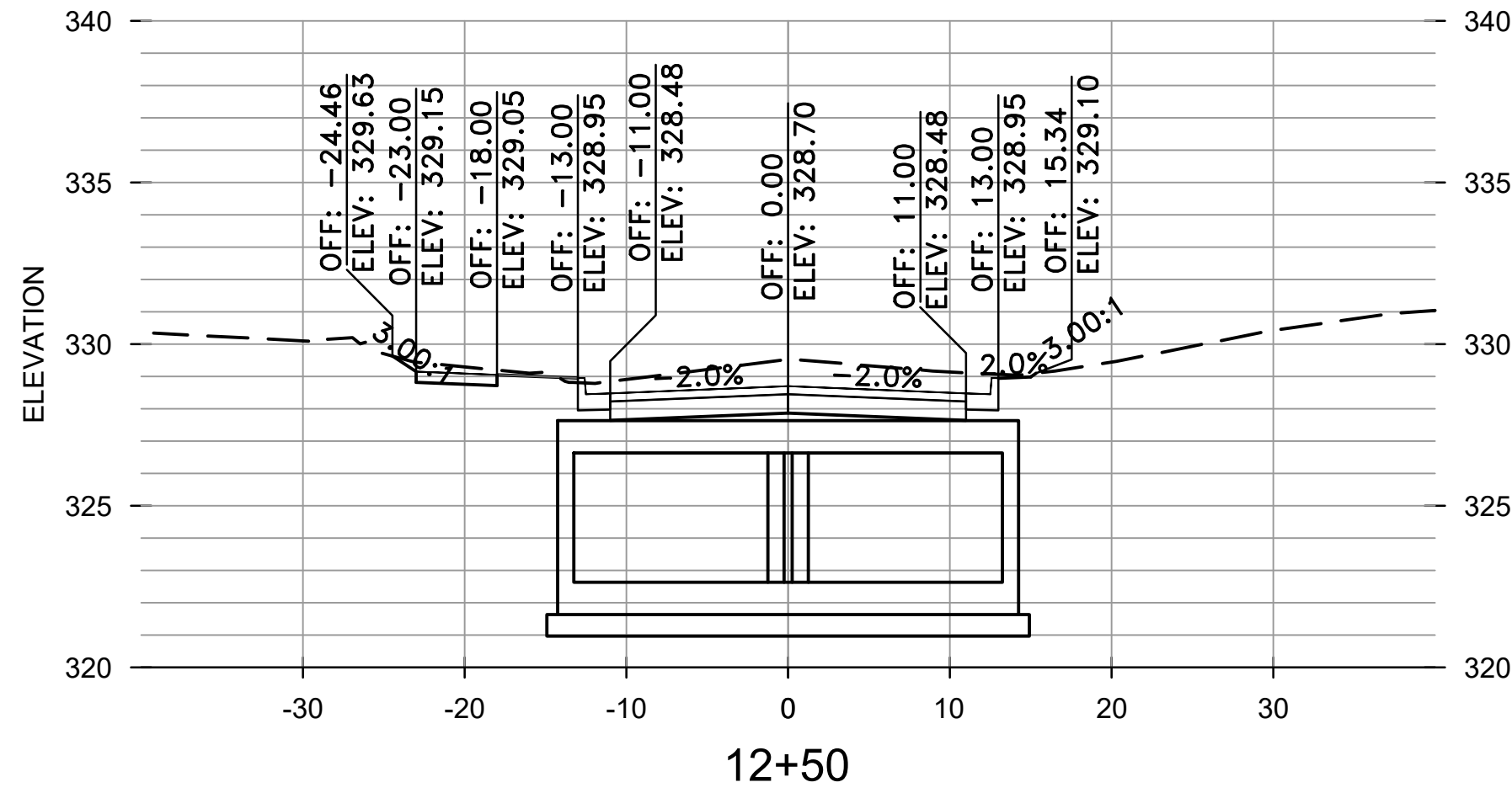
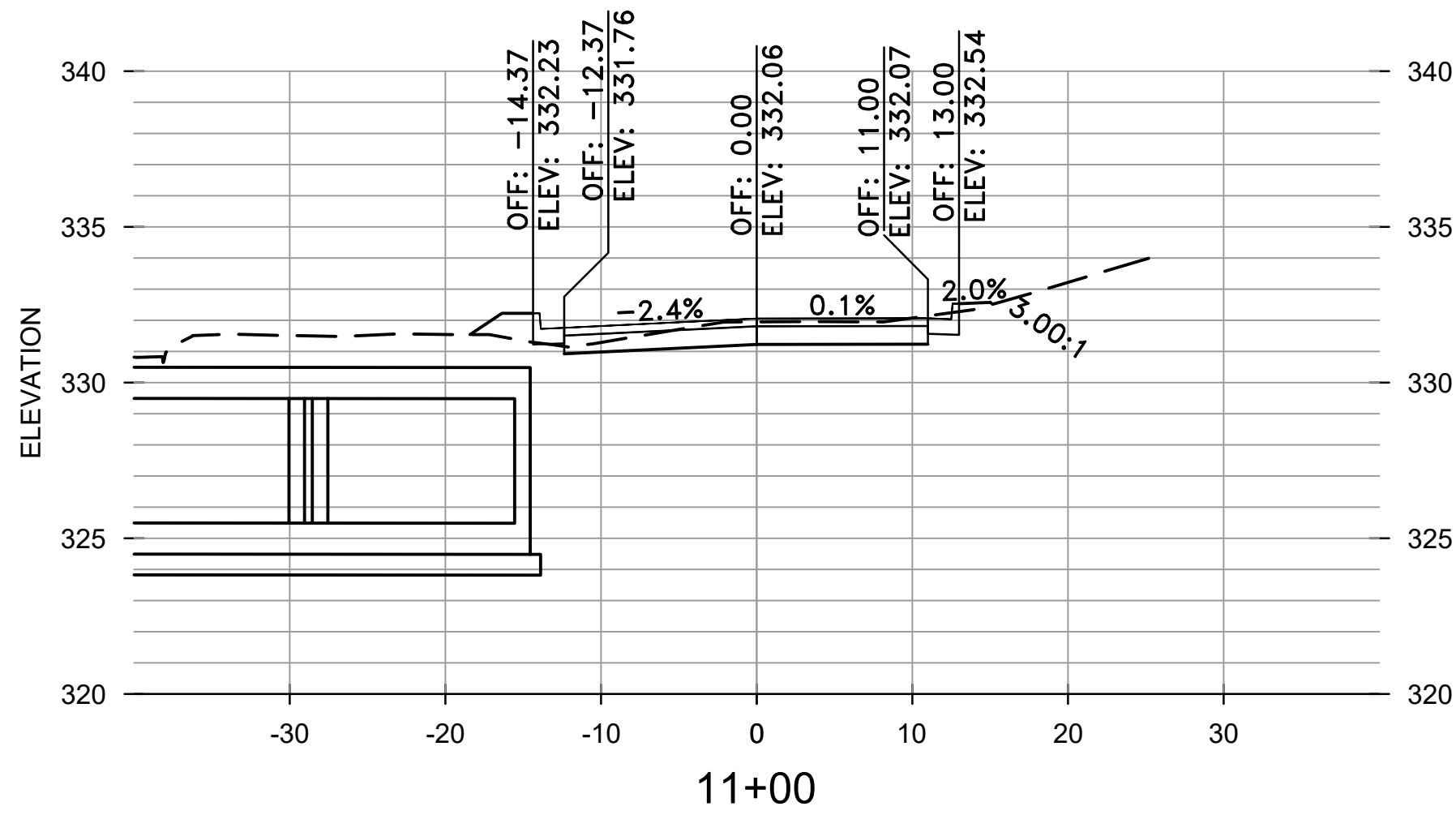
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

DRIVEWAY DETAILS

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



DRAWN BY	TCP
DESIGNED	MJM
CHECKED	RCC
DATE	3-3-2025
SCALE	N.T.S.
PROJECT NO.	03-17-DR-107
SHEET NO.	C27



REVISIONS	DATE

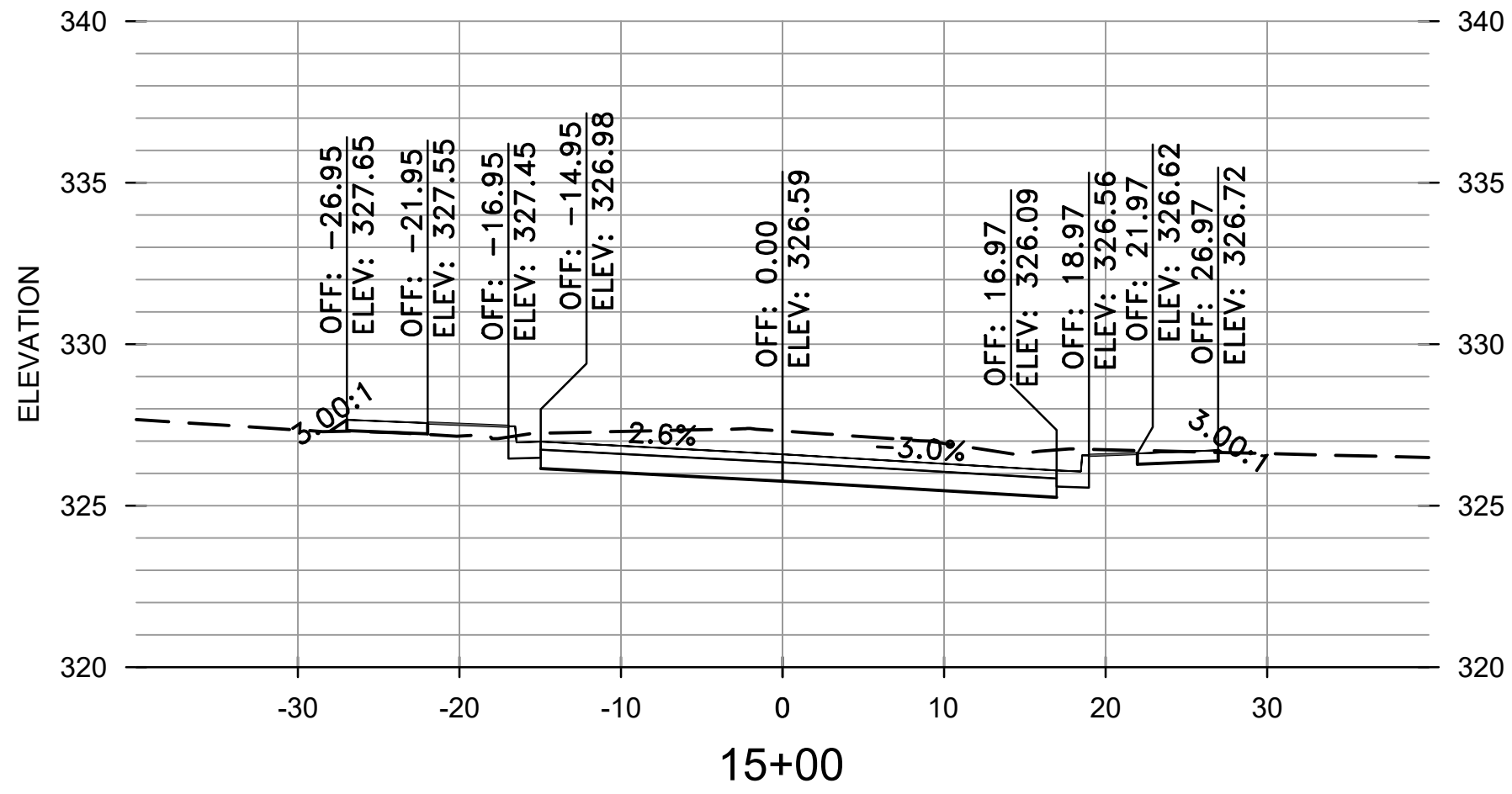
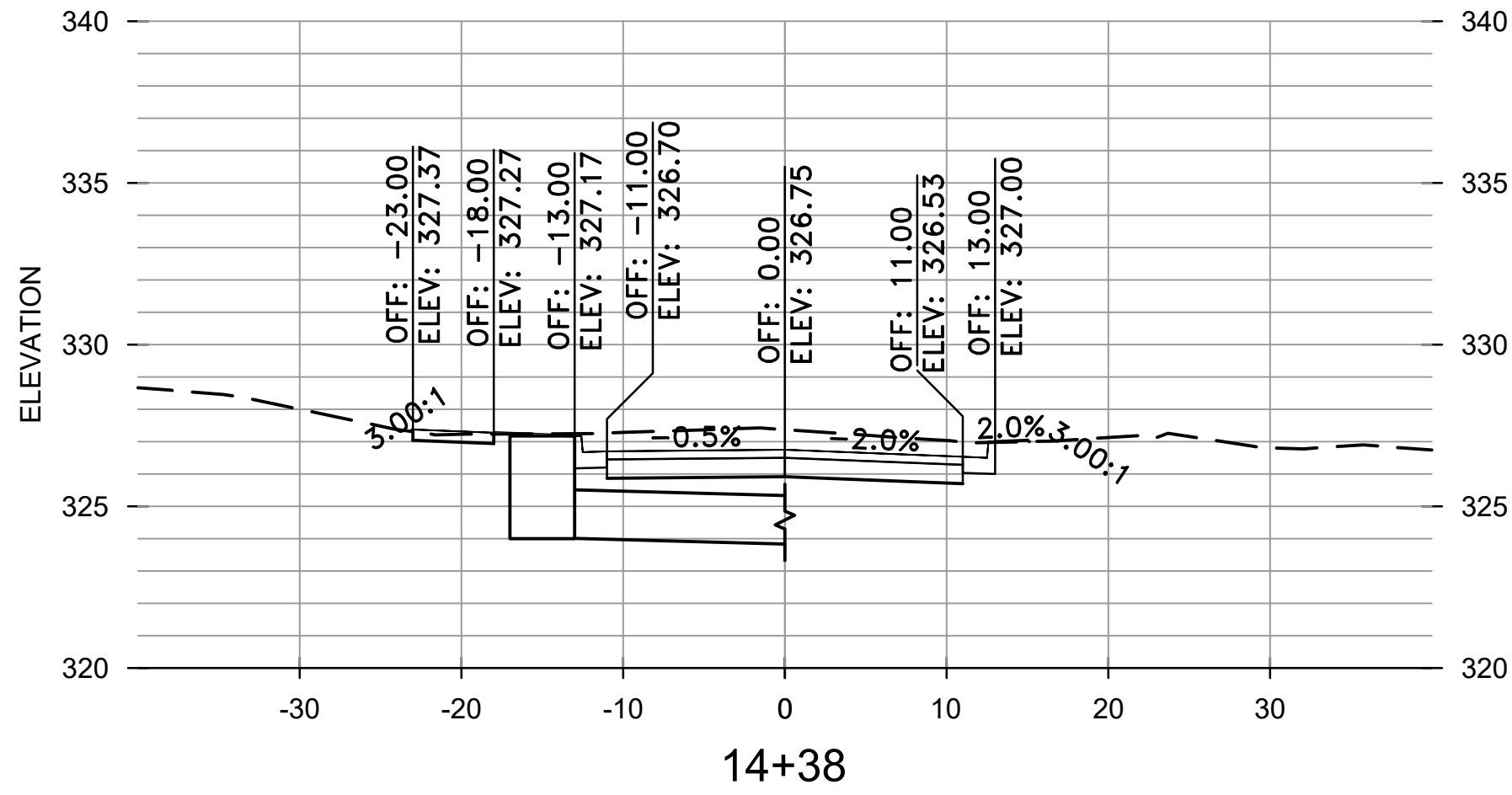
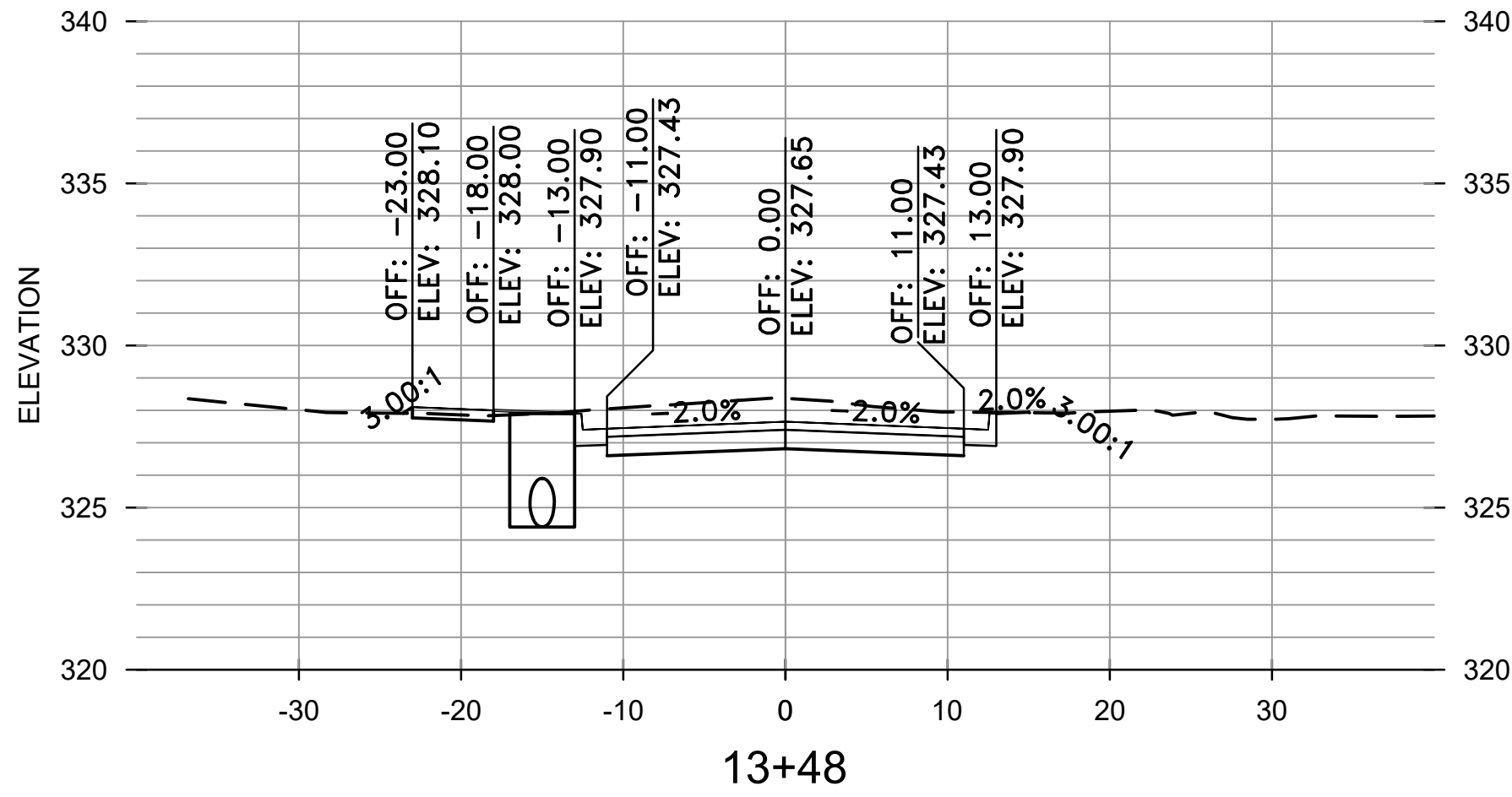
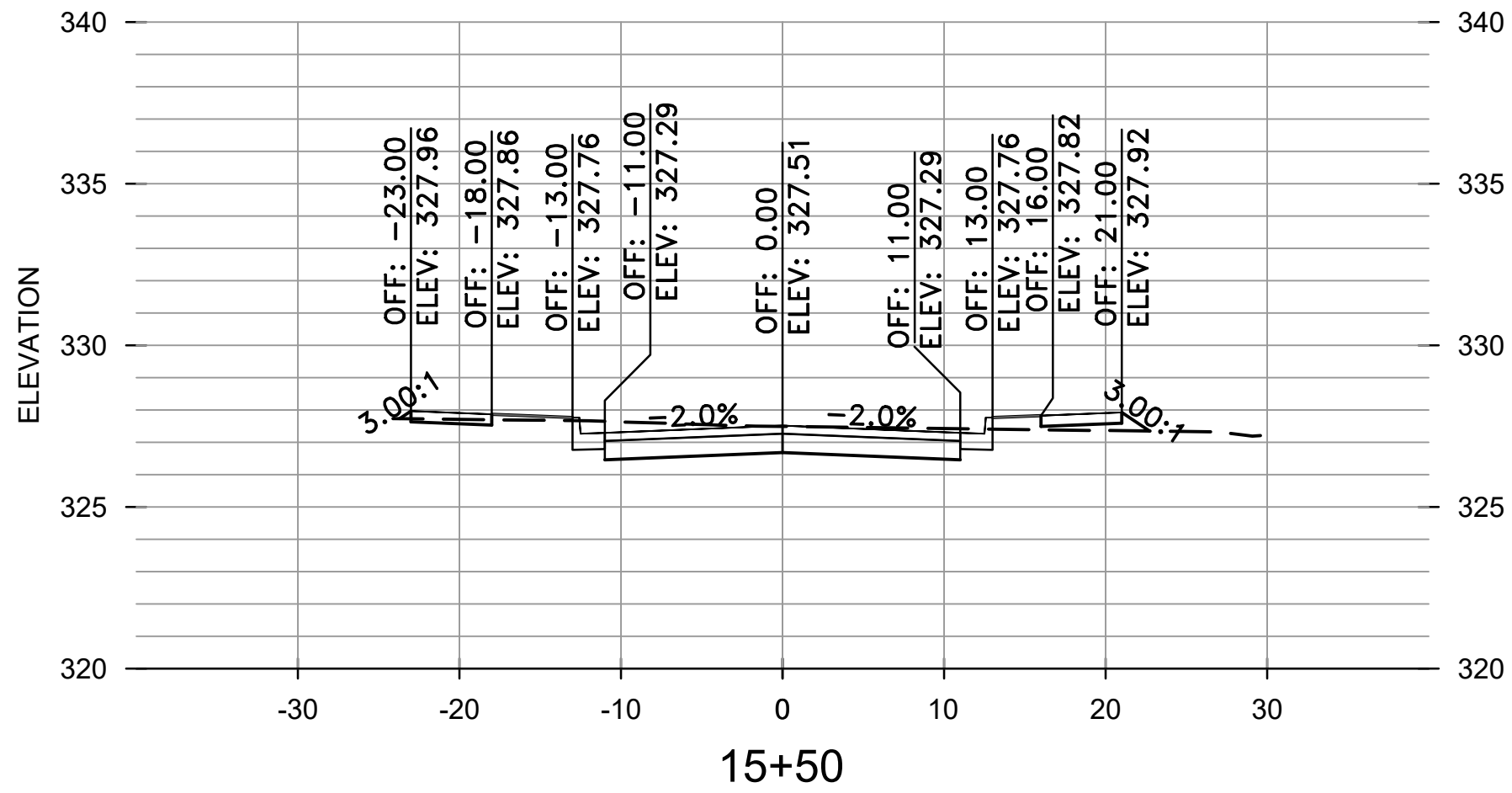
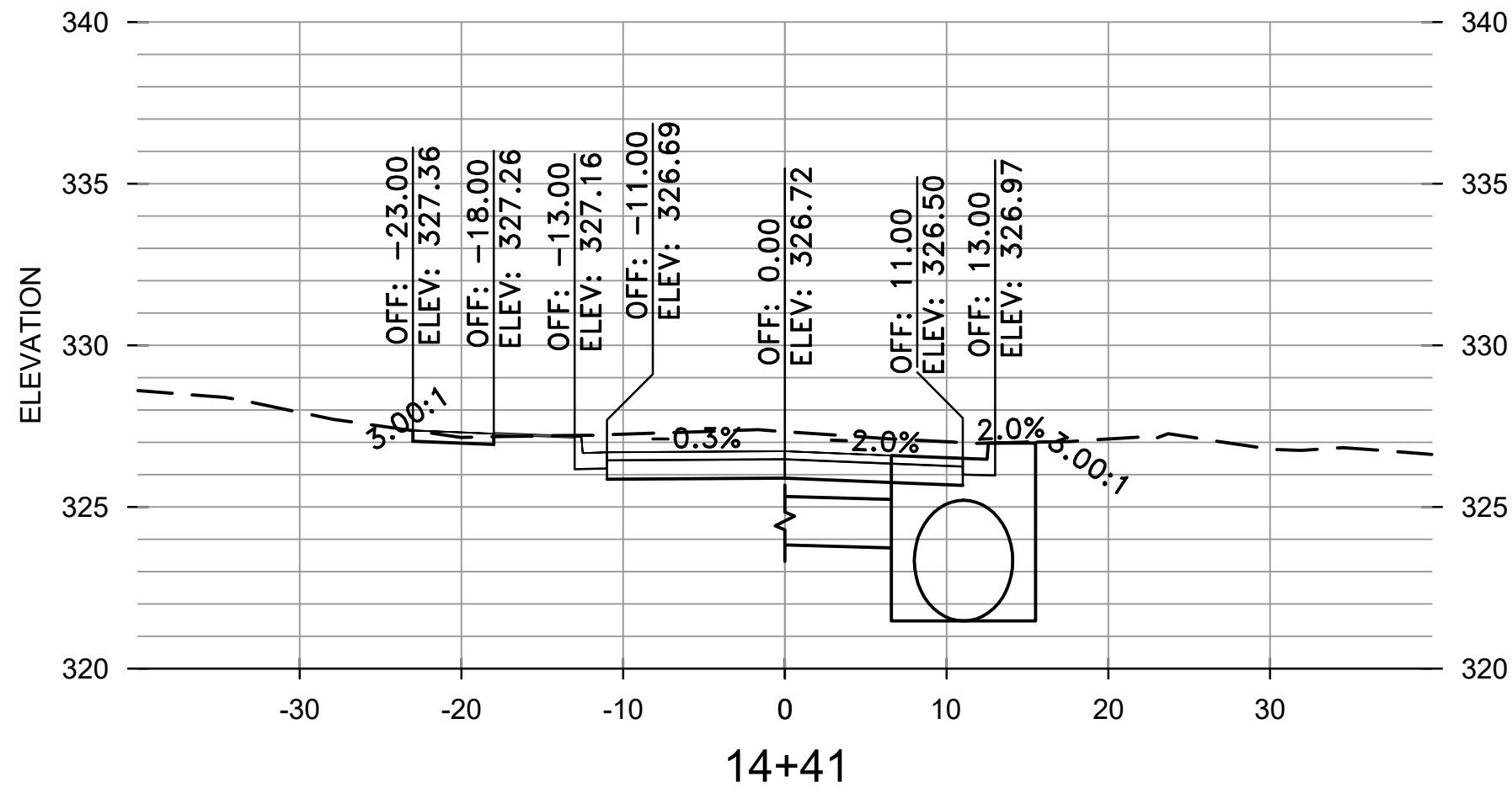
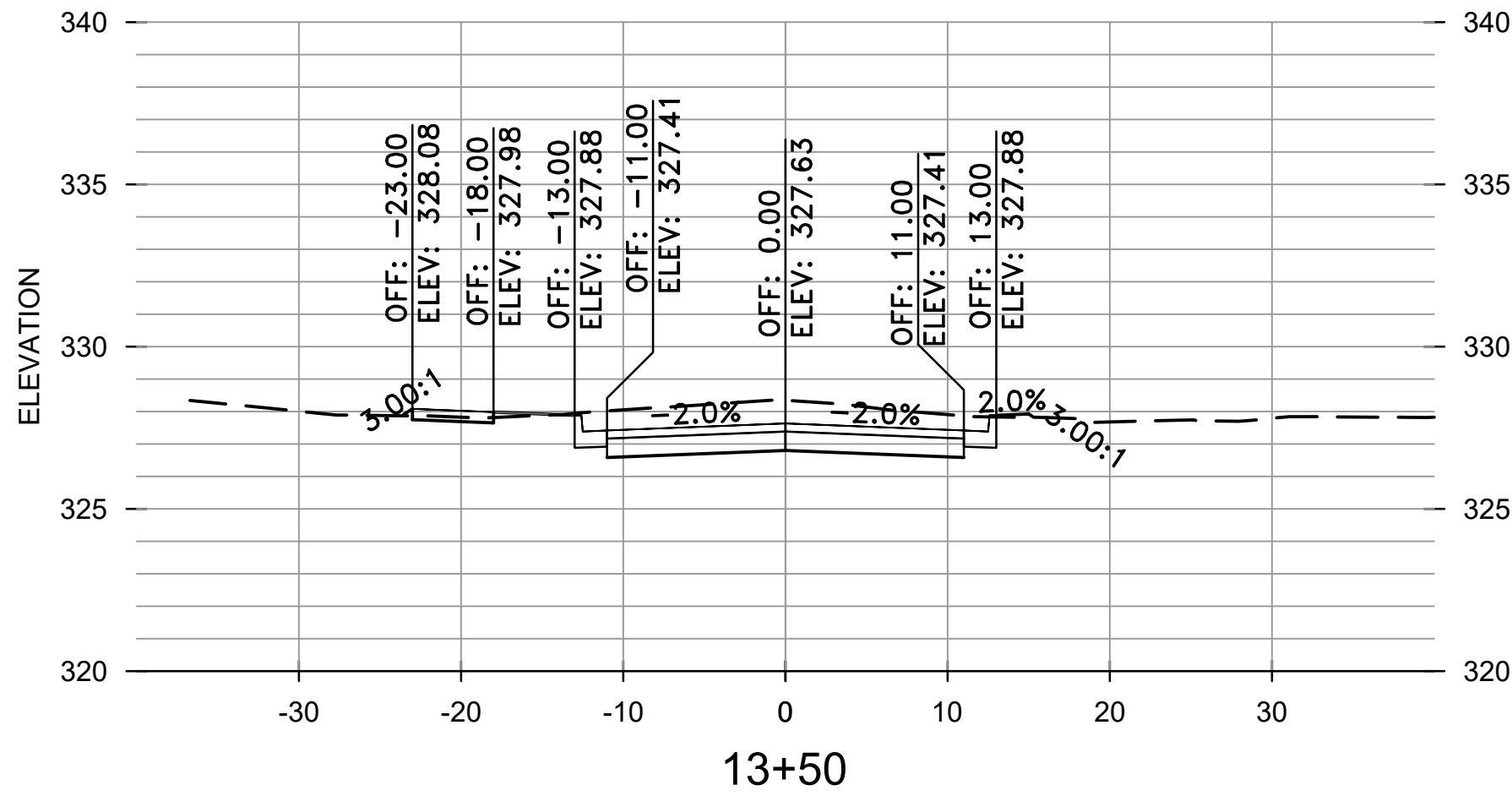
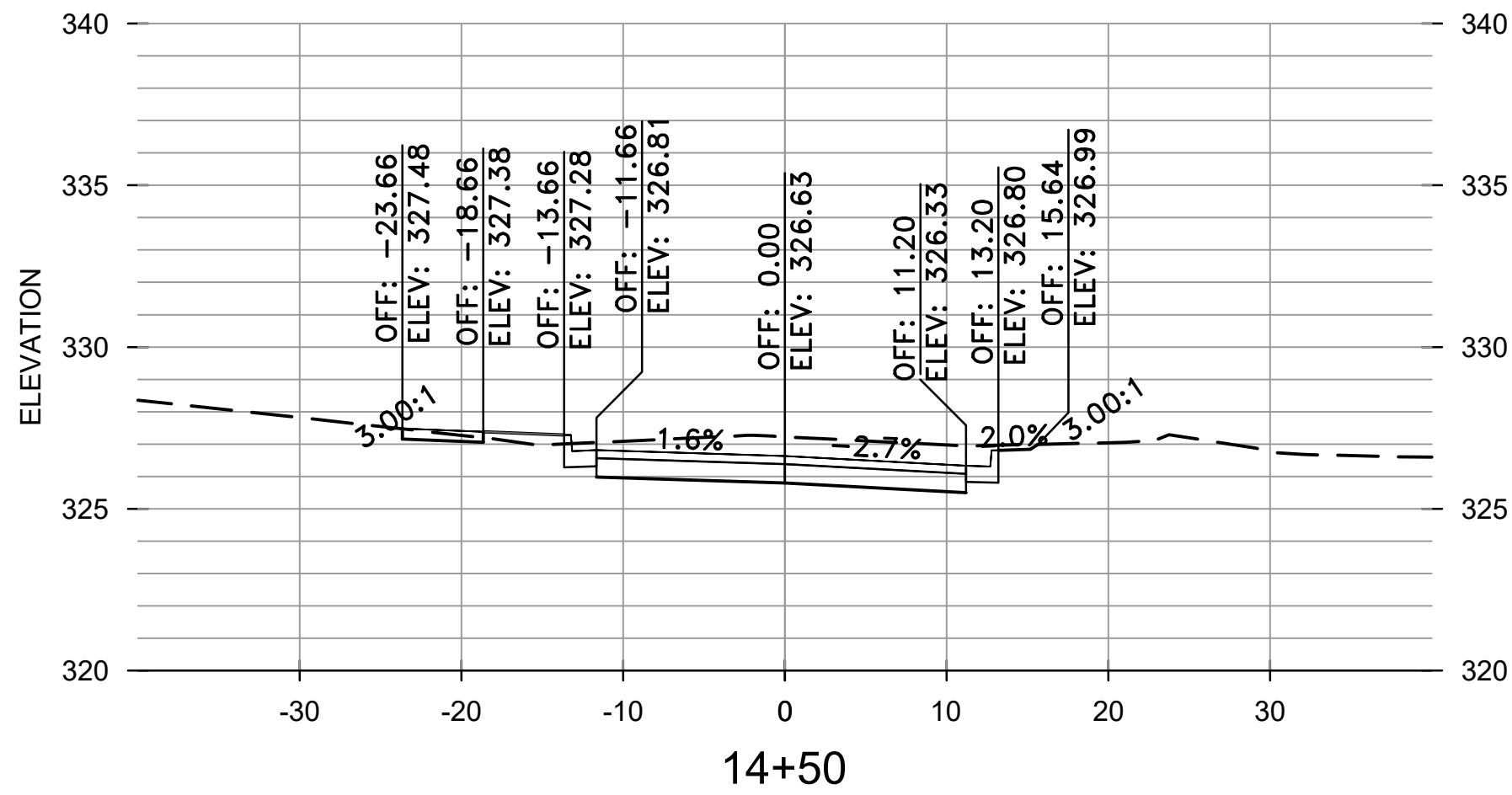
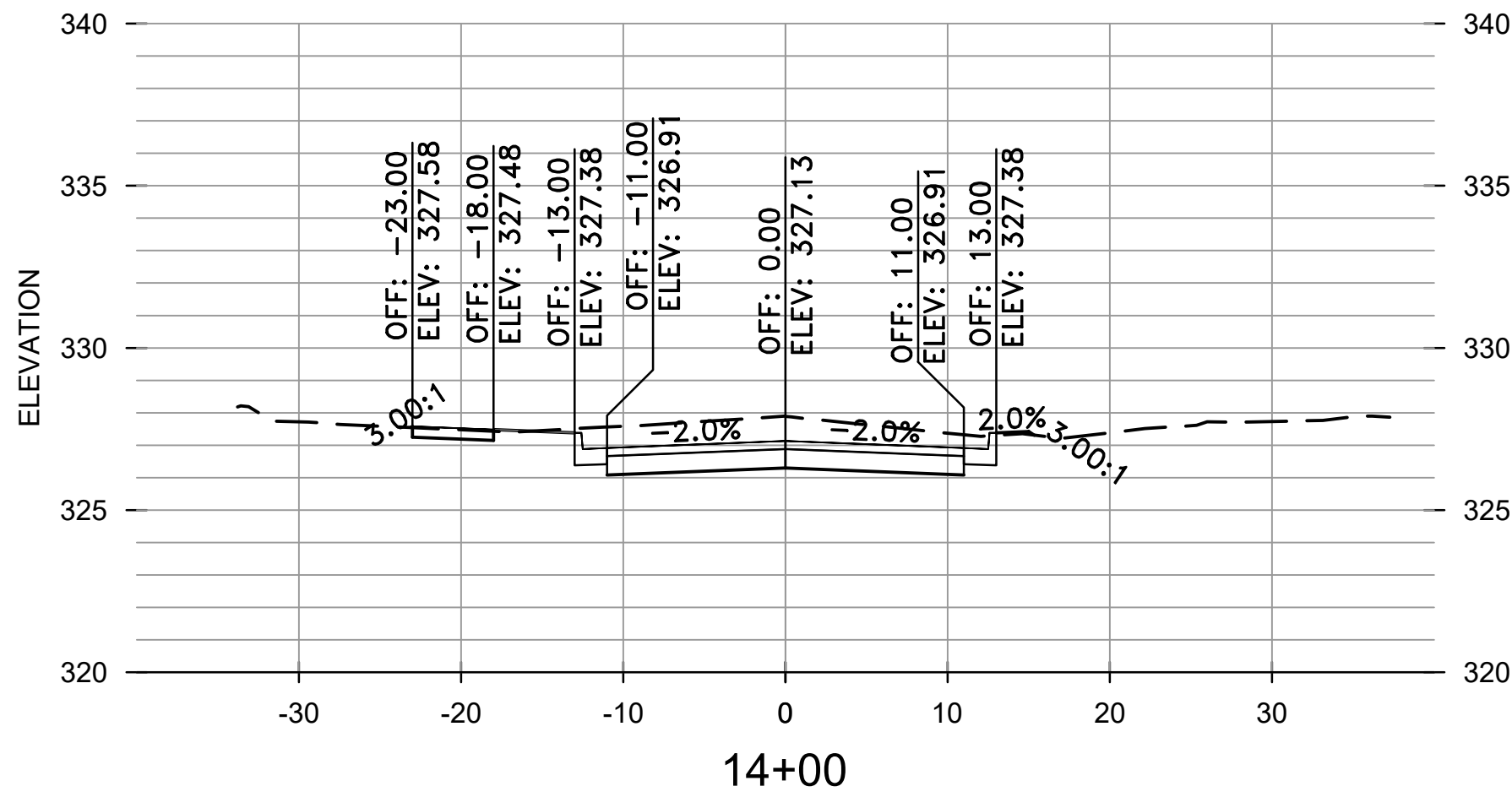
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

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 3-3-2025
SCALE H: 1"=10' V: 1"=5'
PROJECT NO. 03-17-DR-107
SHEET NO. C28



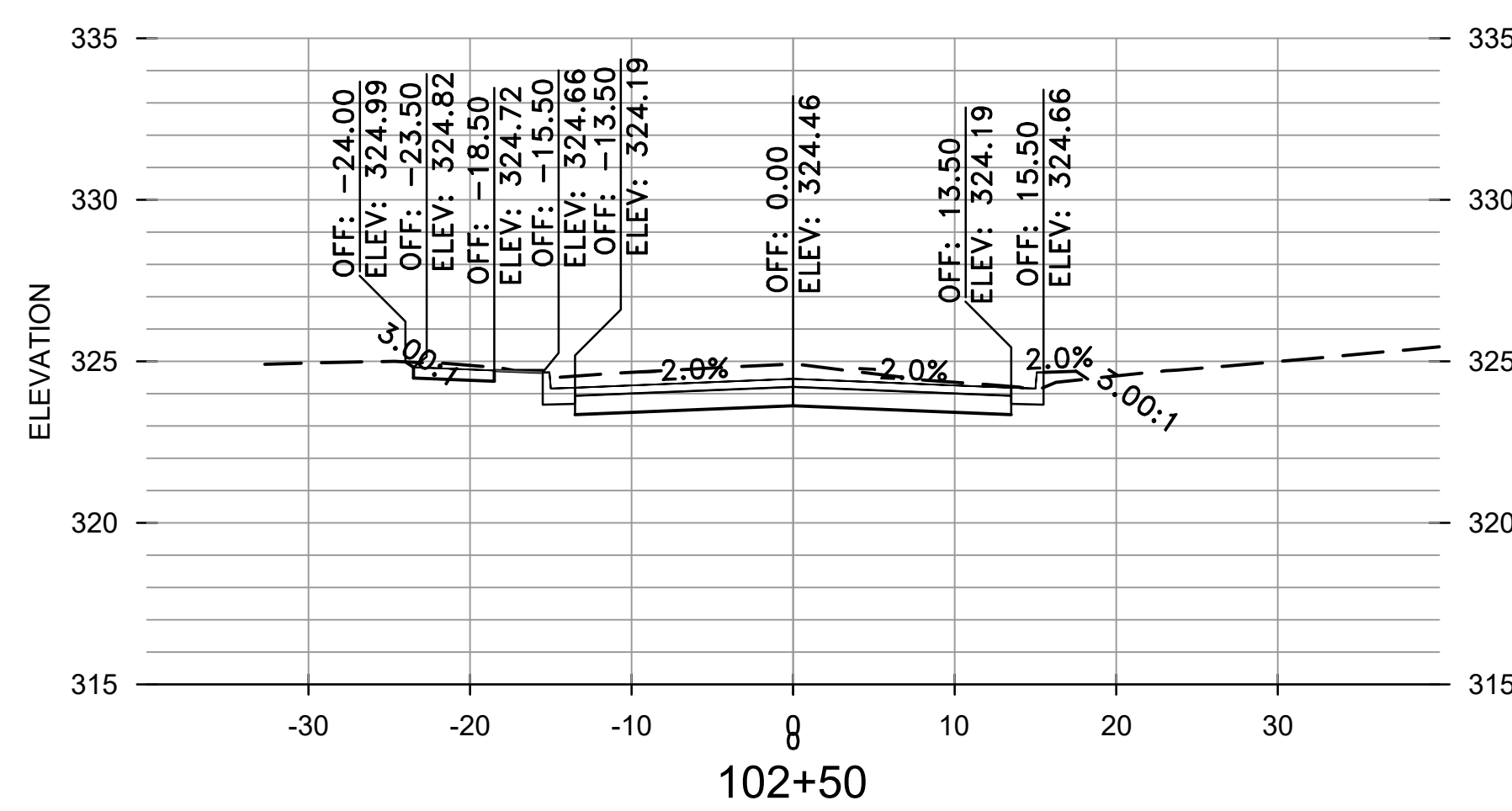
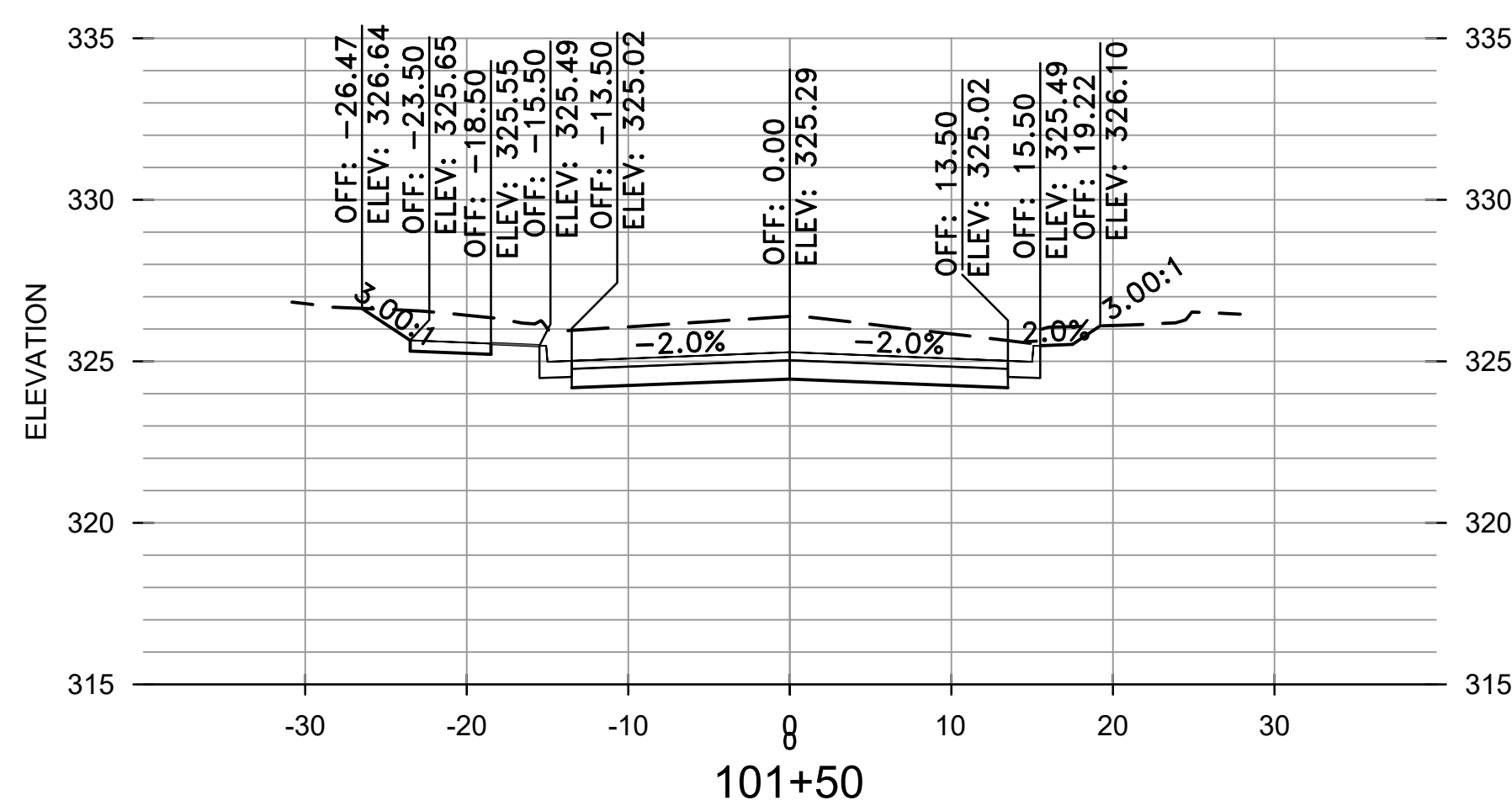
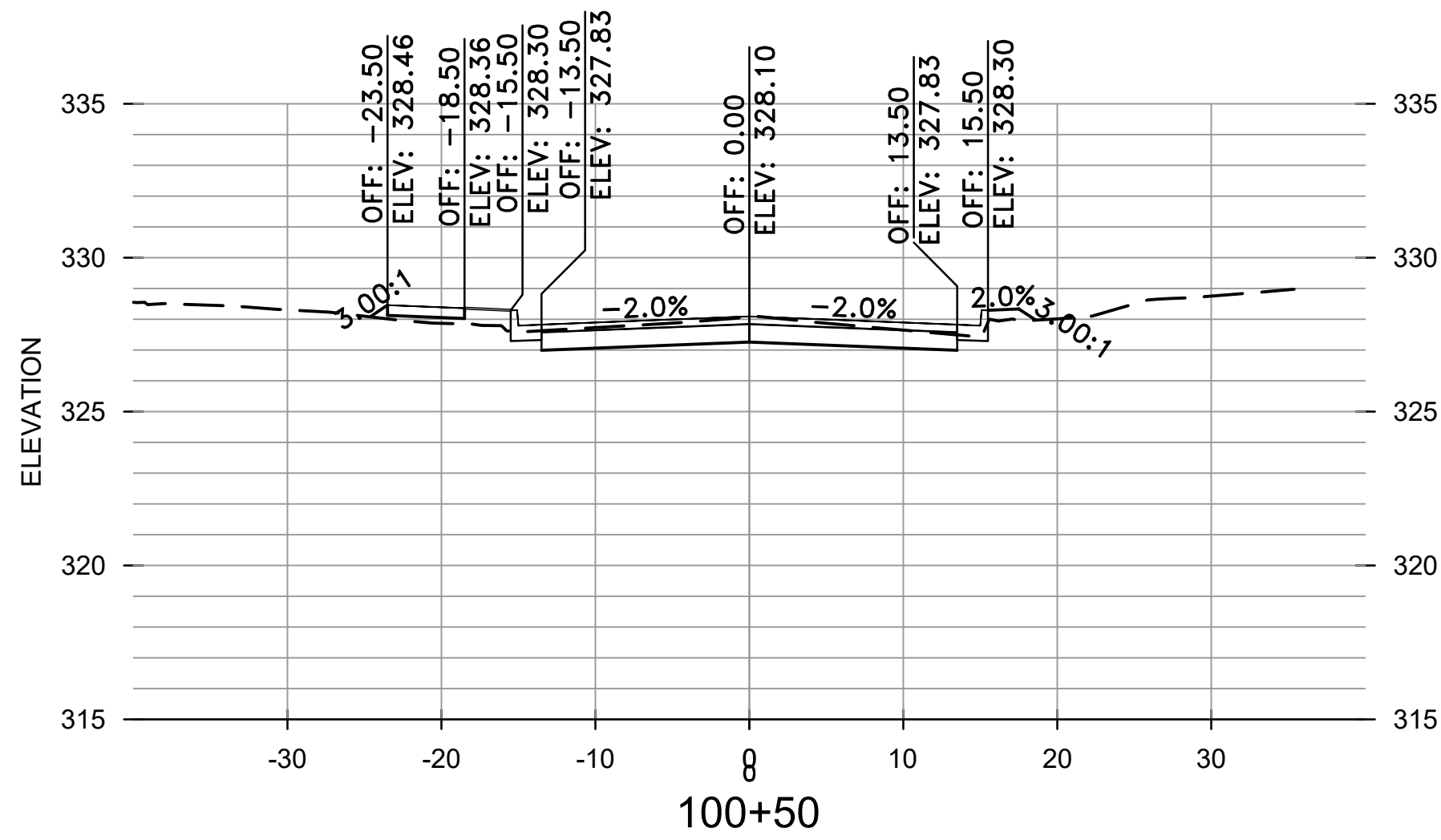
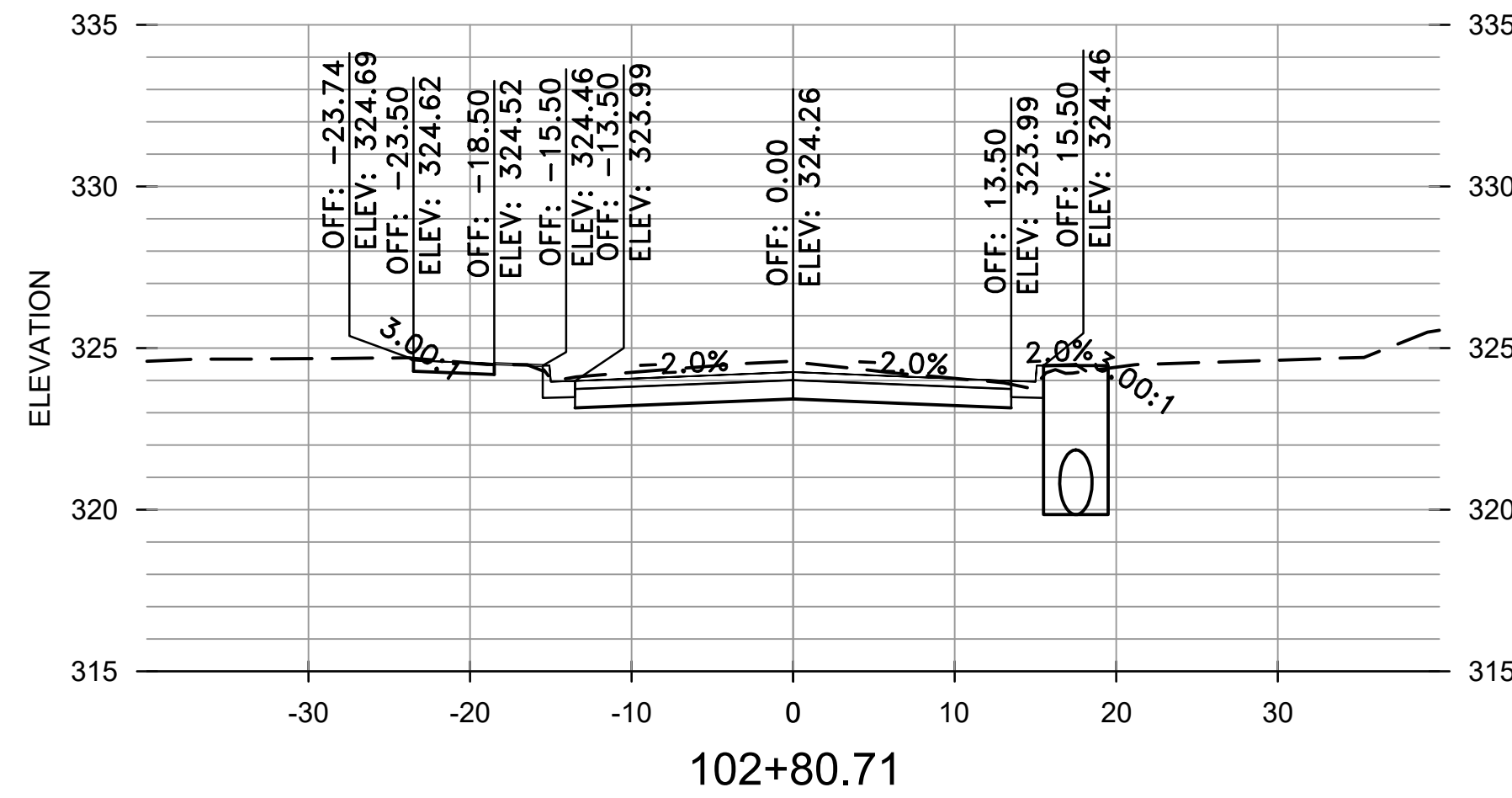
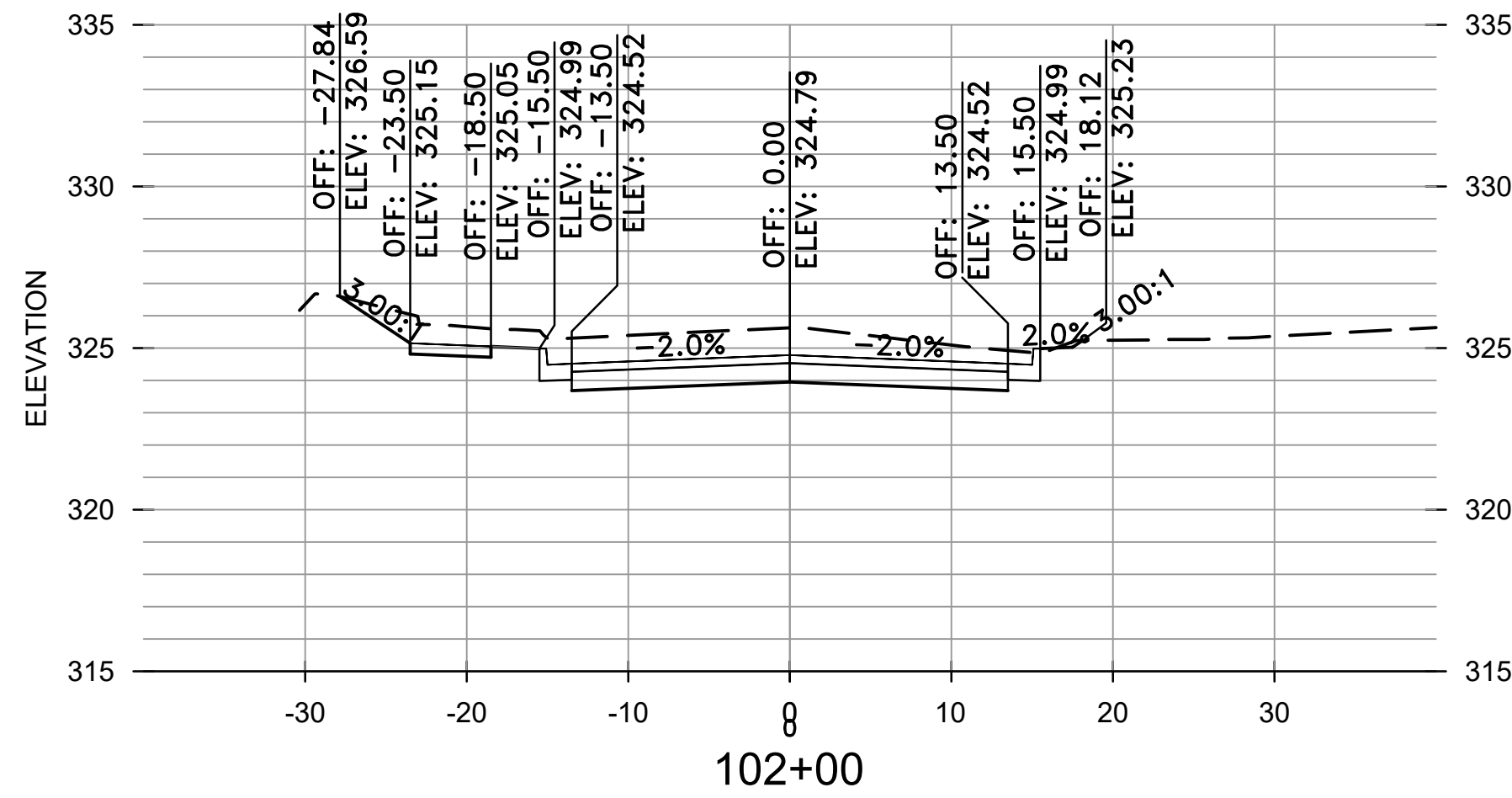
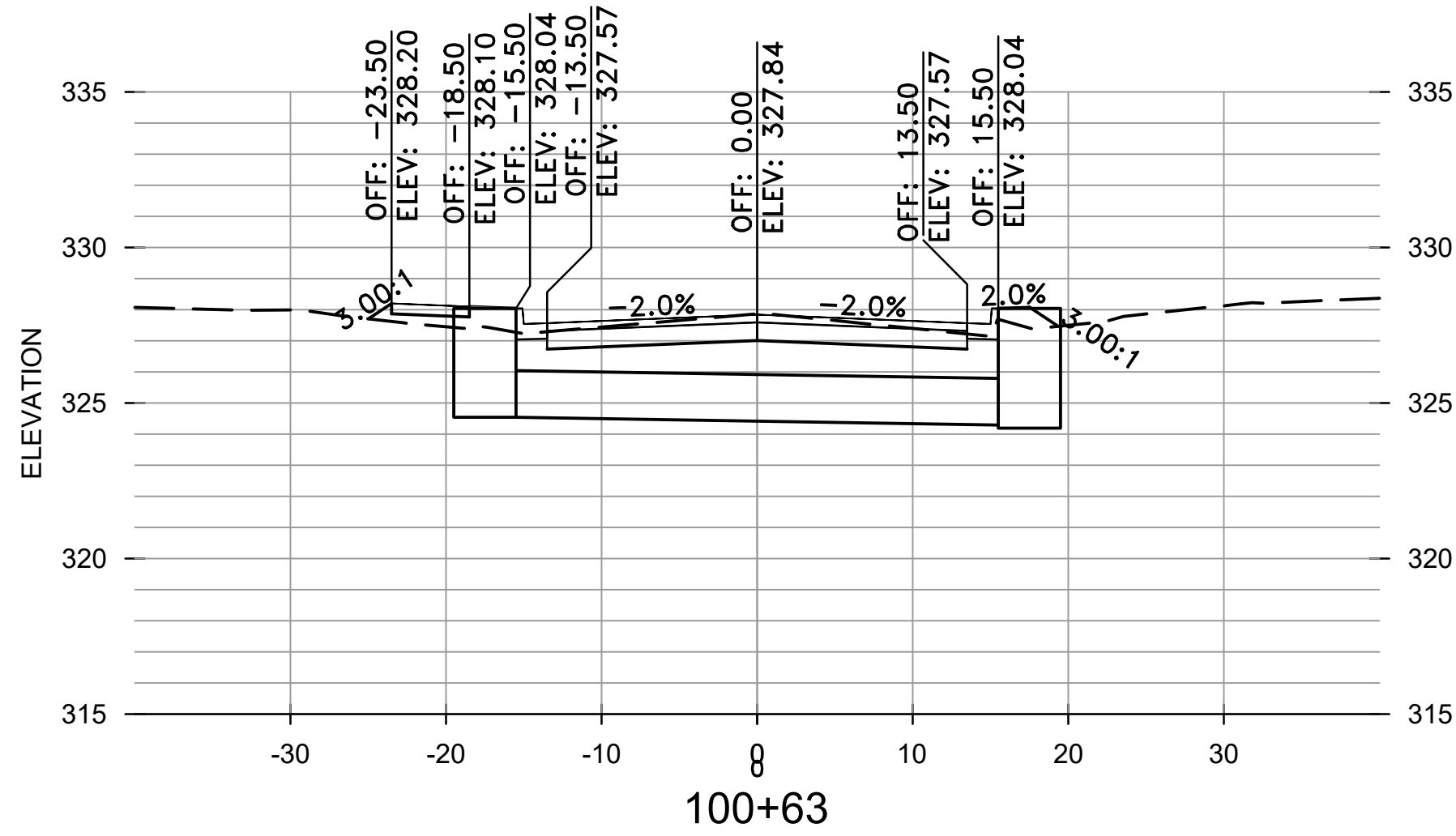
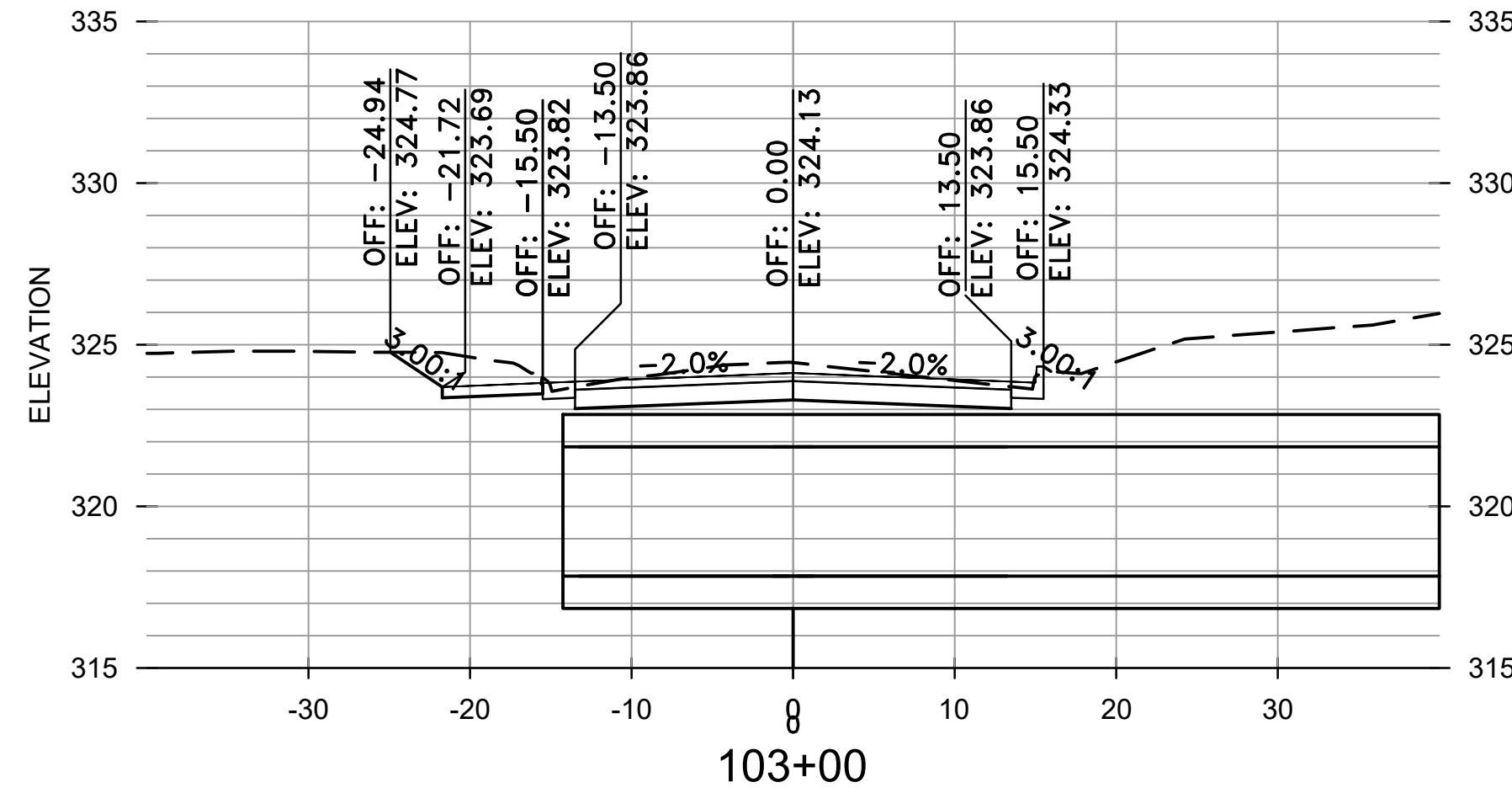
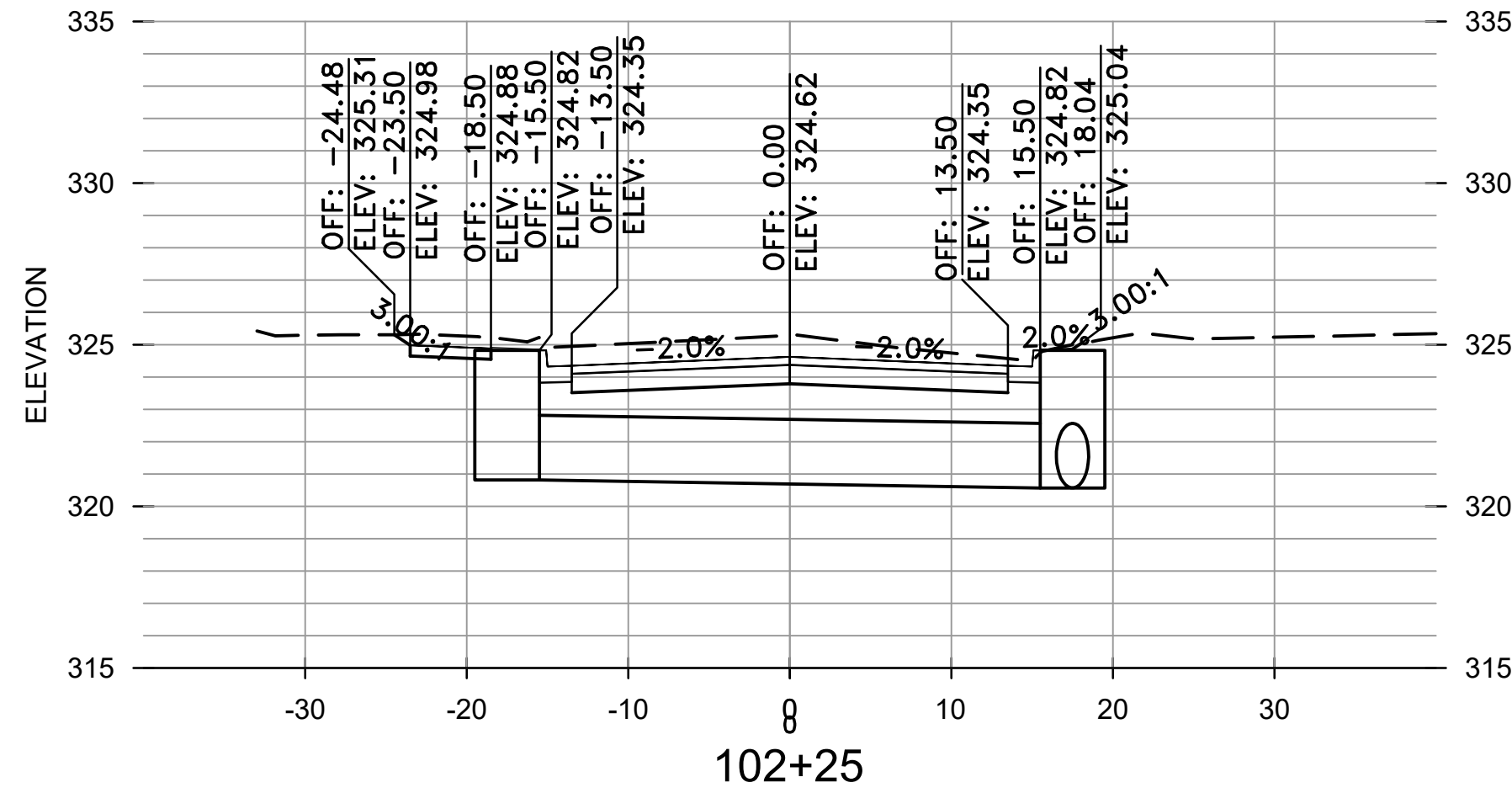
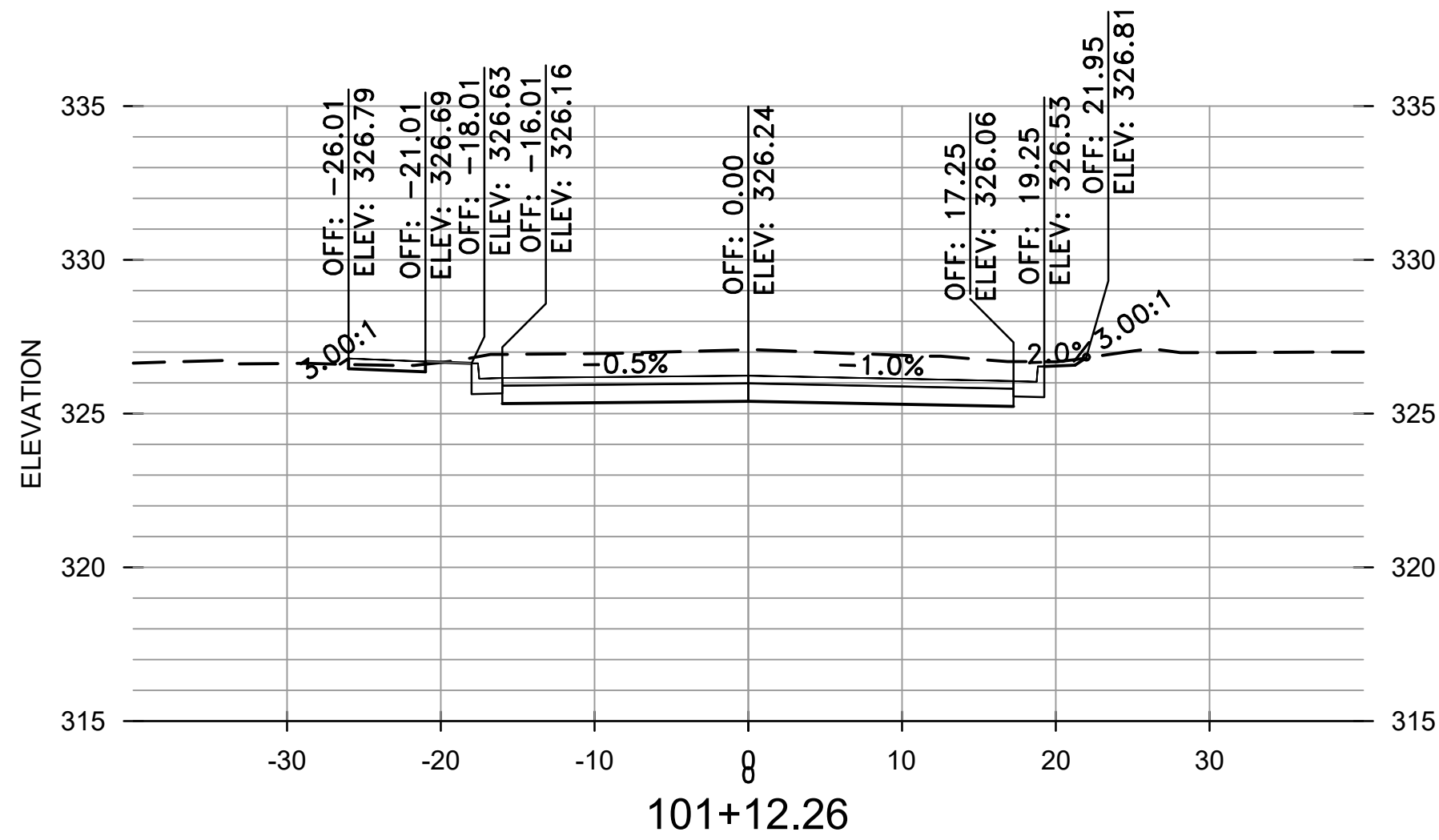
REVISIONS	DATE

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

DRAWN BY
TCP
DESIGNED
RCC
CHECKED
RCC
DATE
3-3-2025
SCALE
H: 1"=10'
V: 1"=5'
PROJECT NO.
03-17-DR-107
SHEET NO.
C29

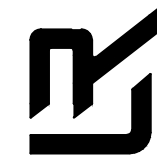


REVISIONS	DATE

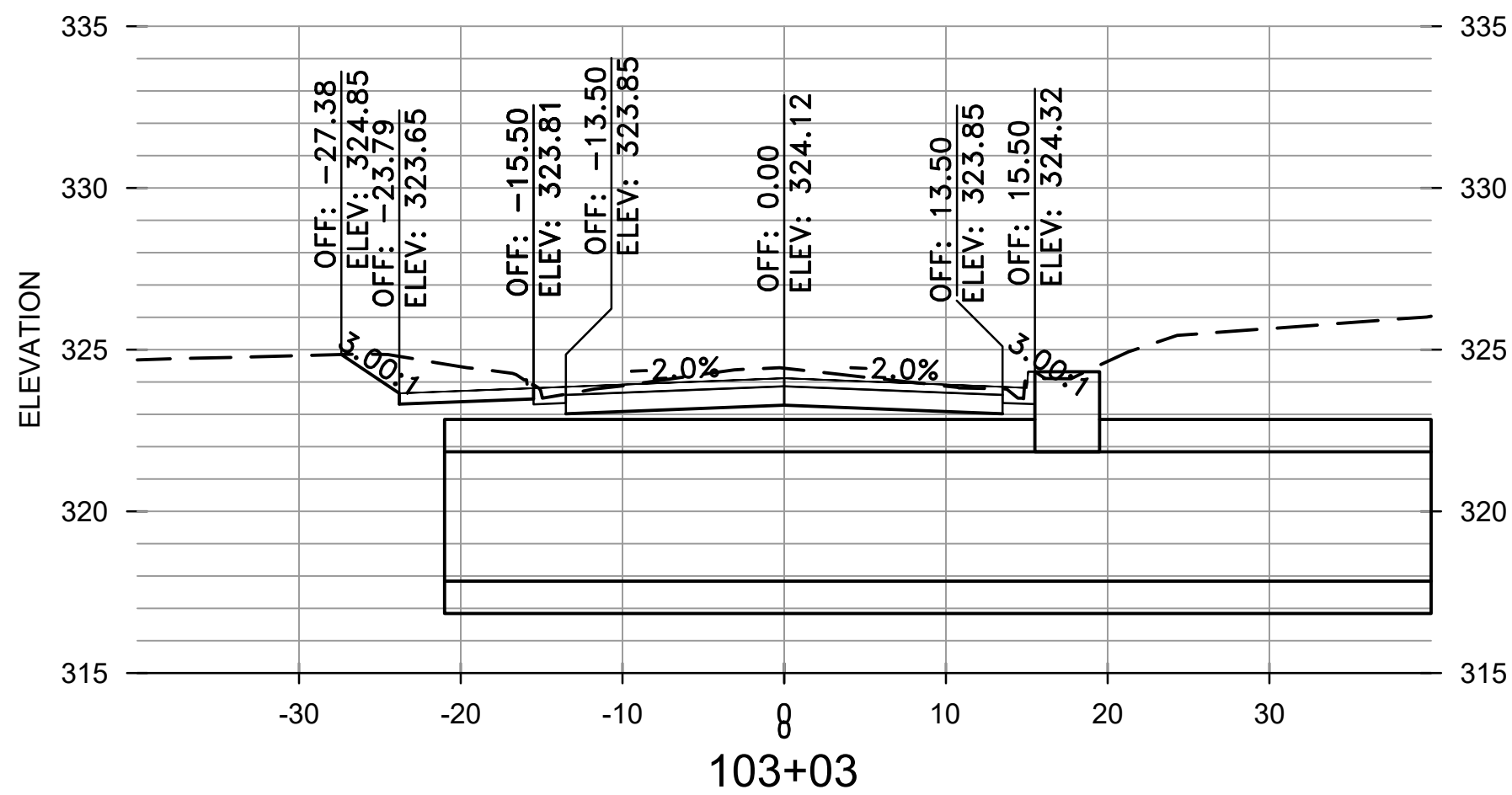
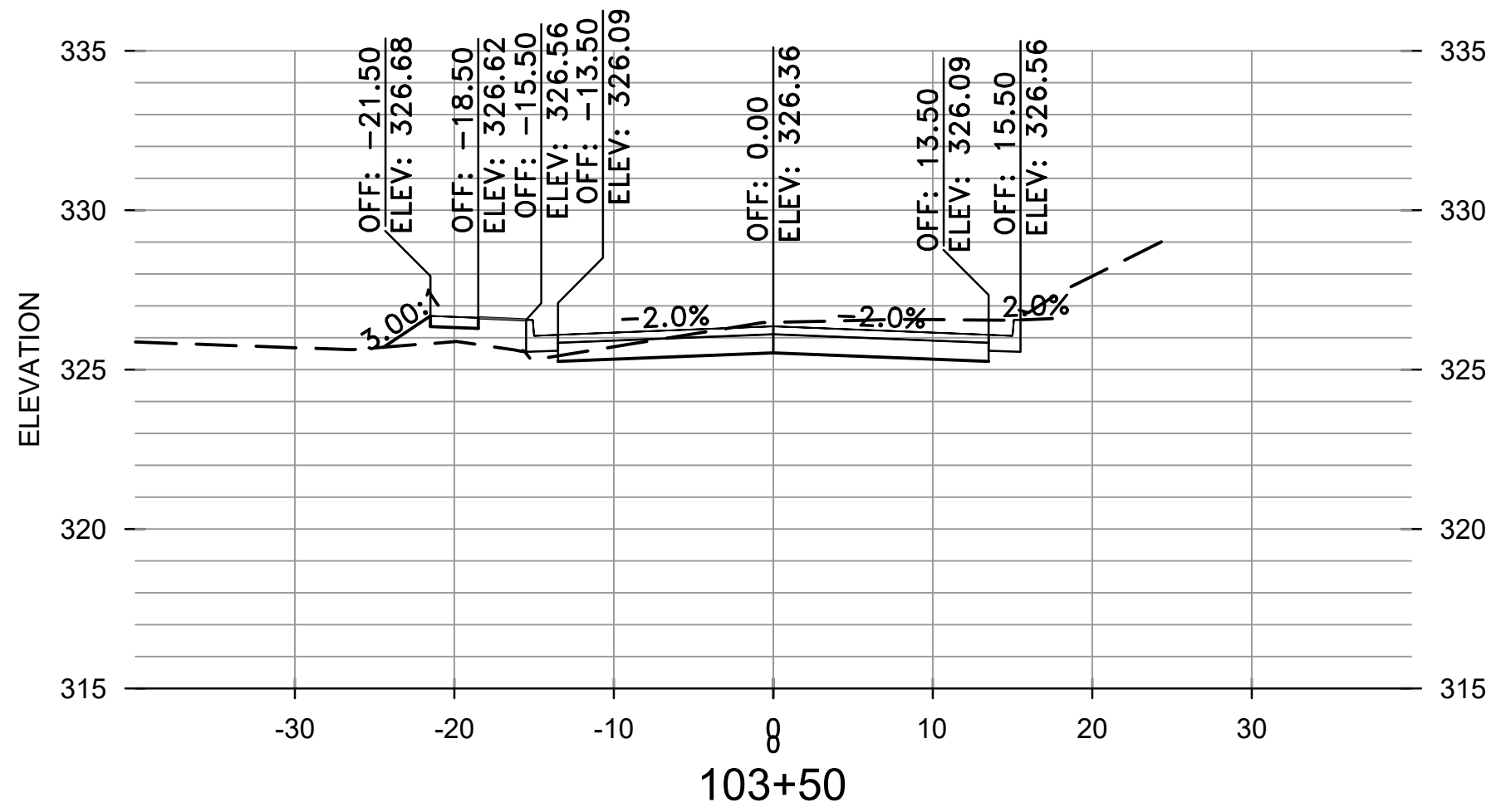
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

CROSS SECTIONS
VALMAR STREET

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



DRAWN BY TCP
DESIGNED RCC
CHECKED RCC
DATE 3-3-2025
SCALE H: 1"=10' V: 1"=5'
PROJECT NO. 03-17-DR-107
SHEET NO. C30



REVISIONS	DATE

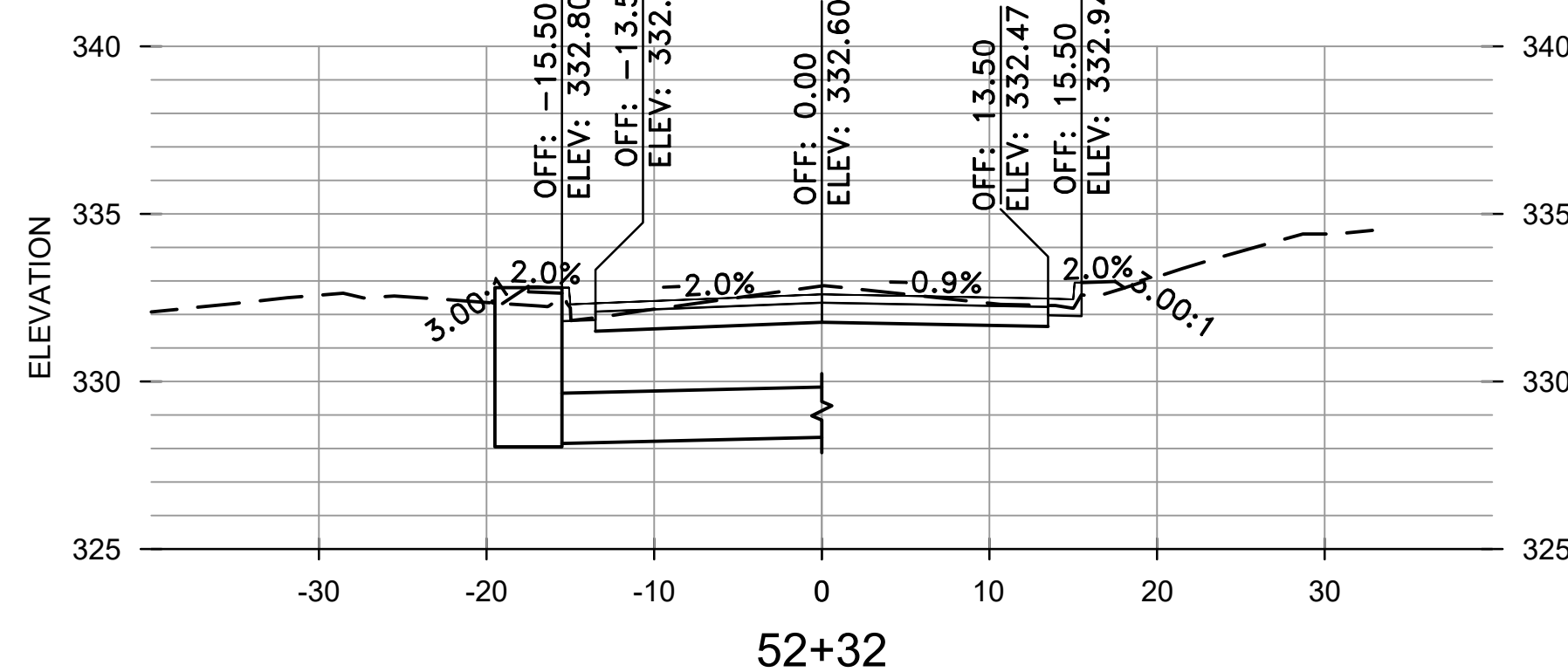
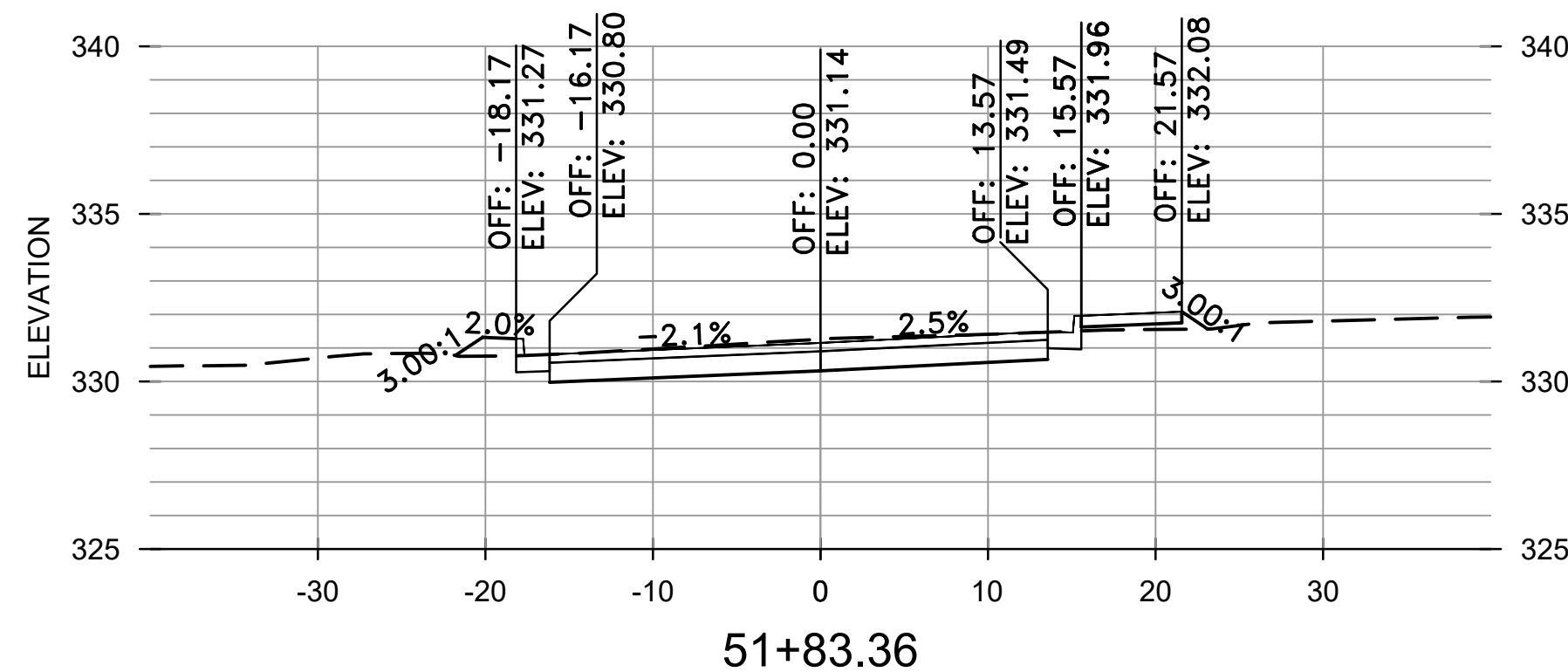
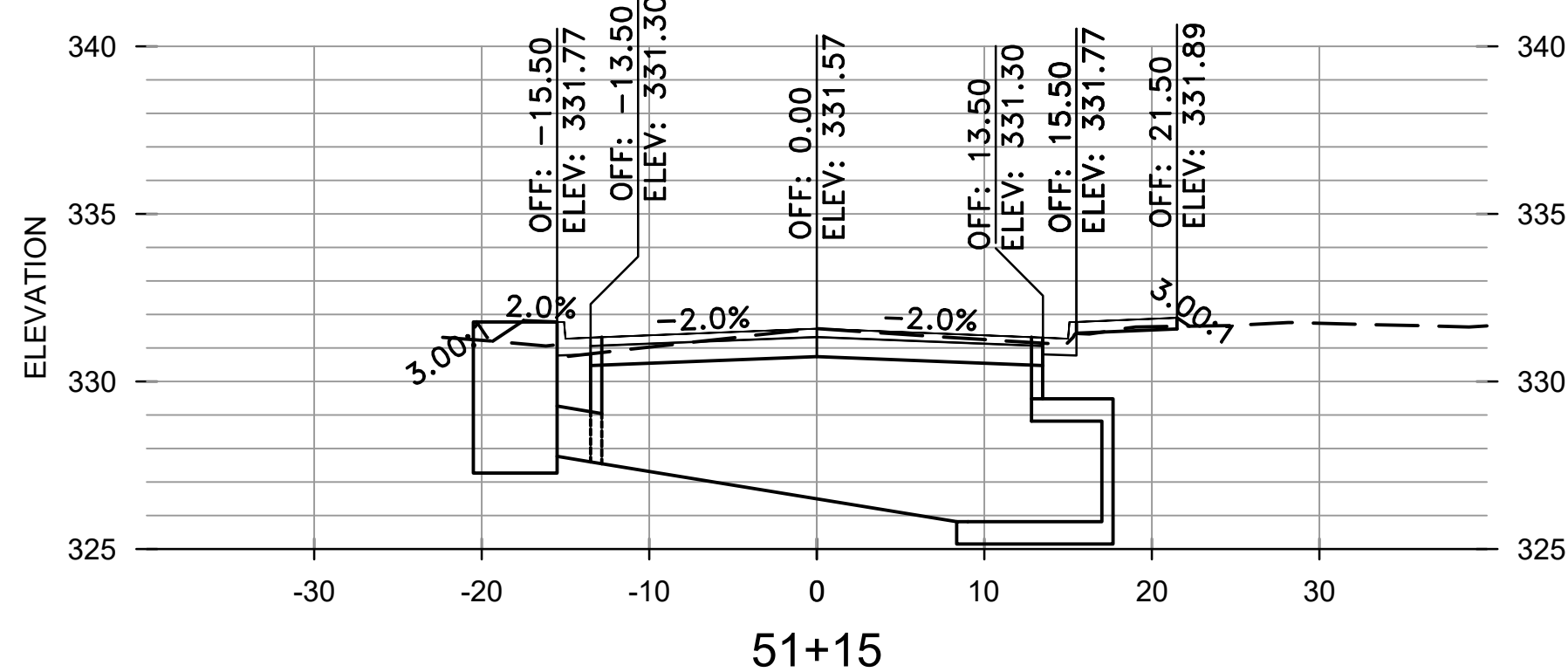
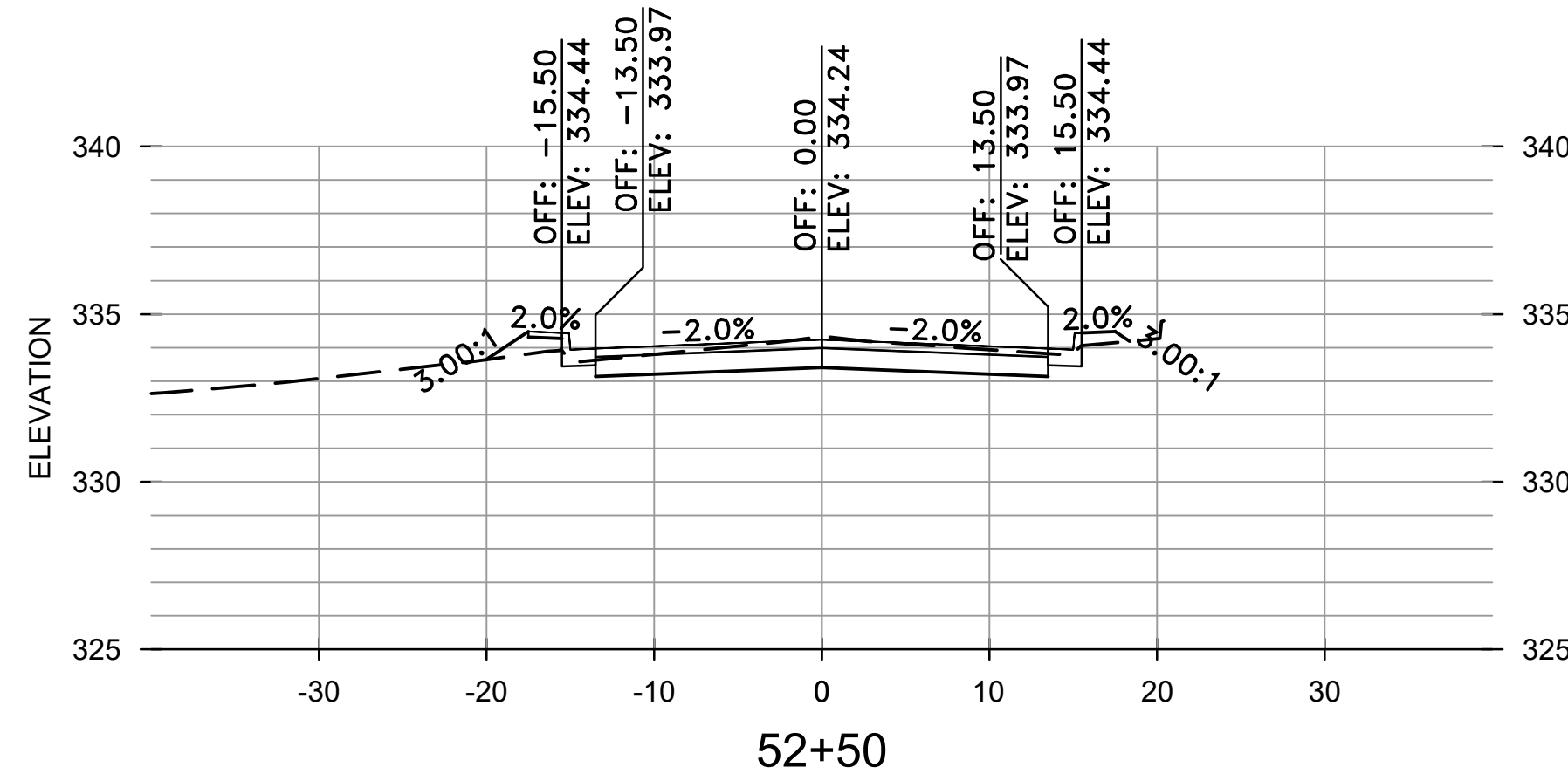
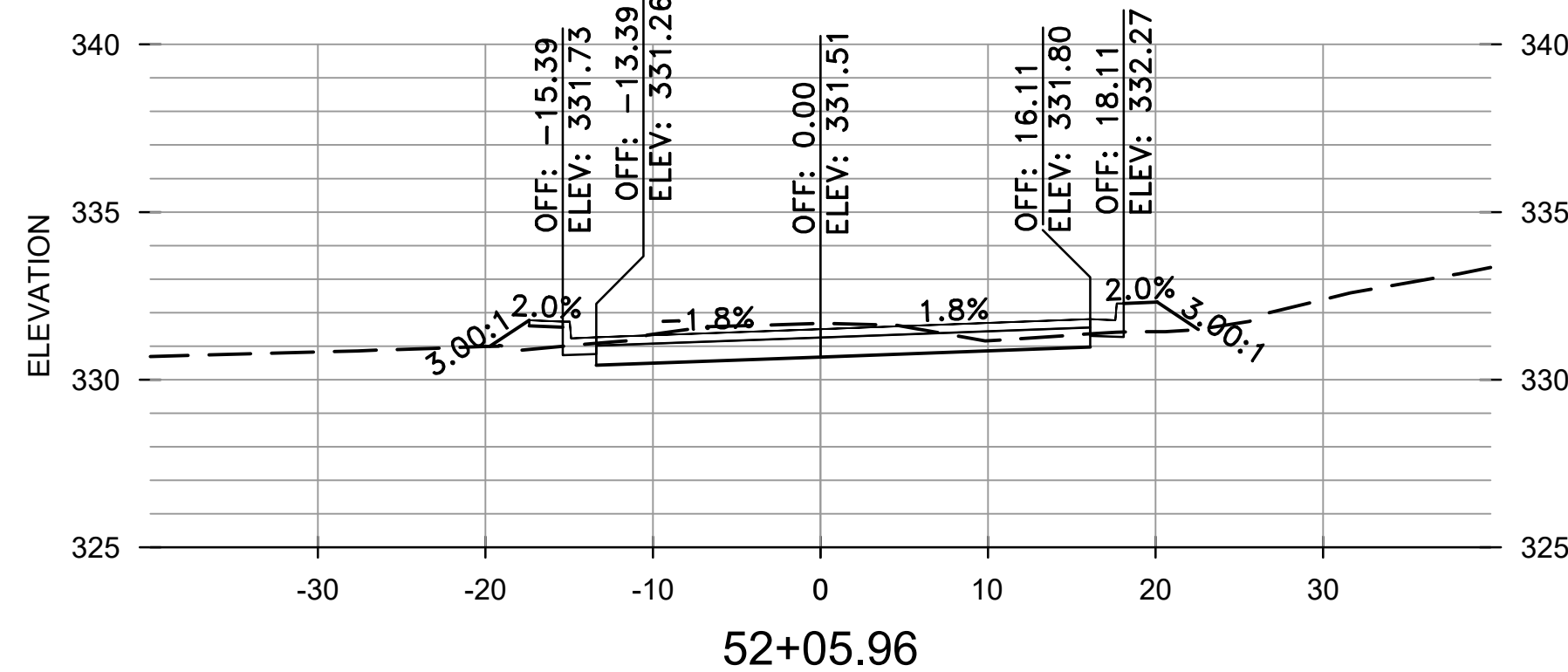
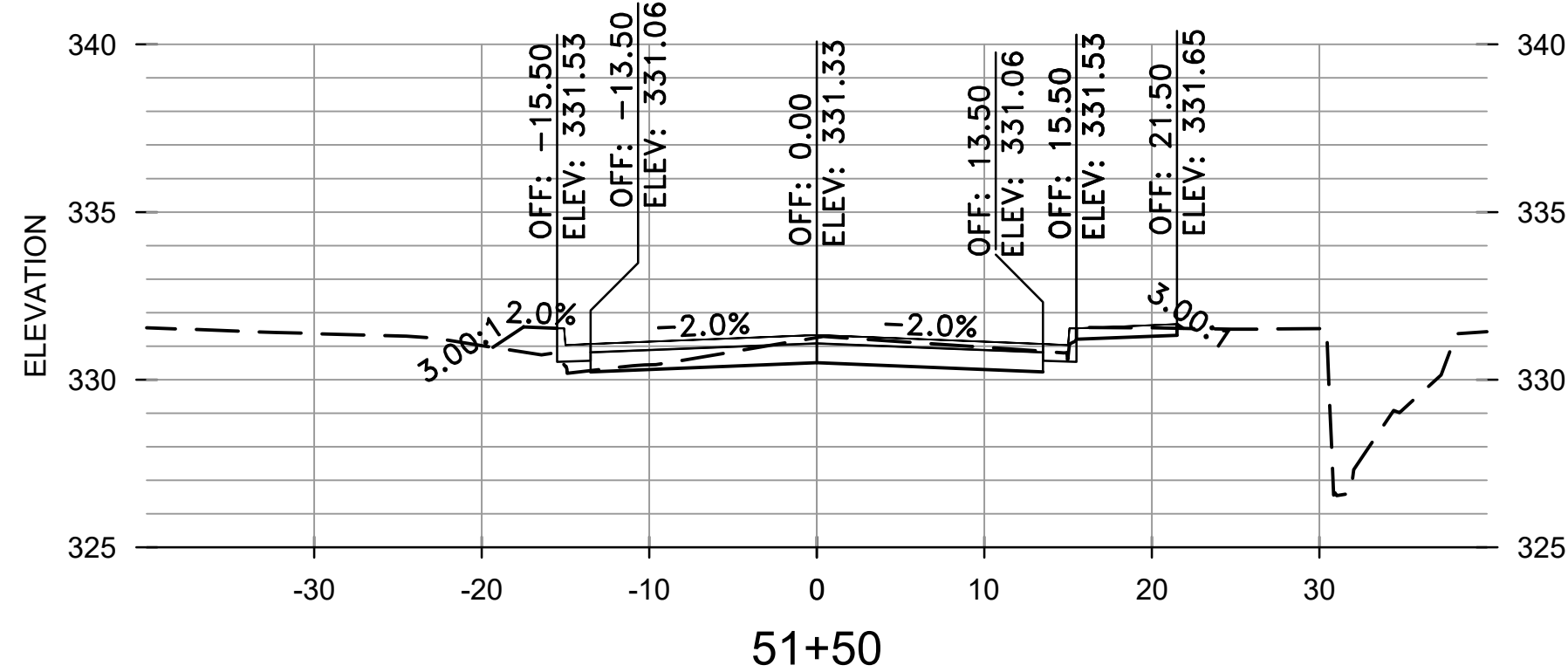
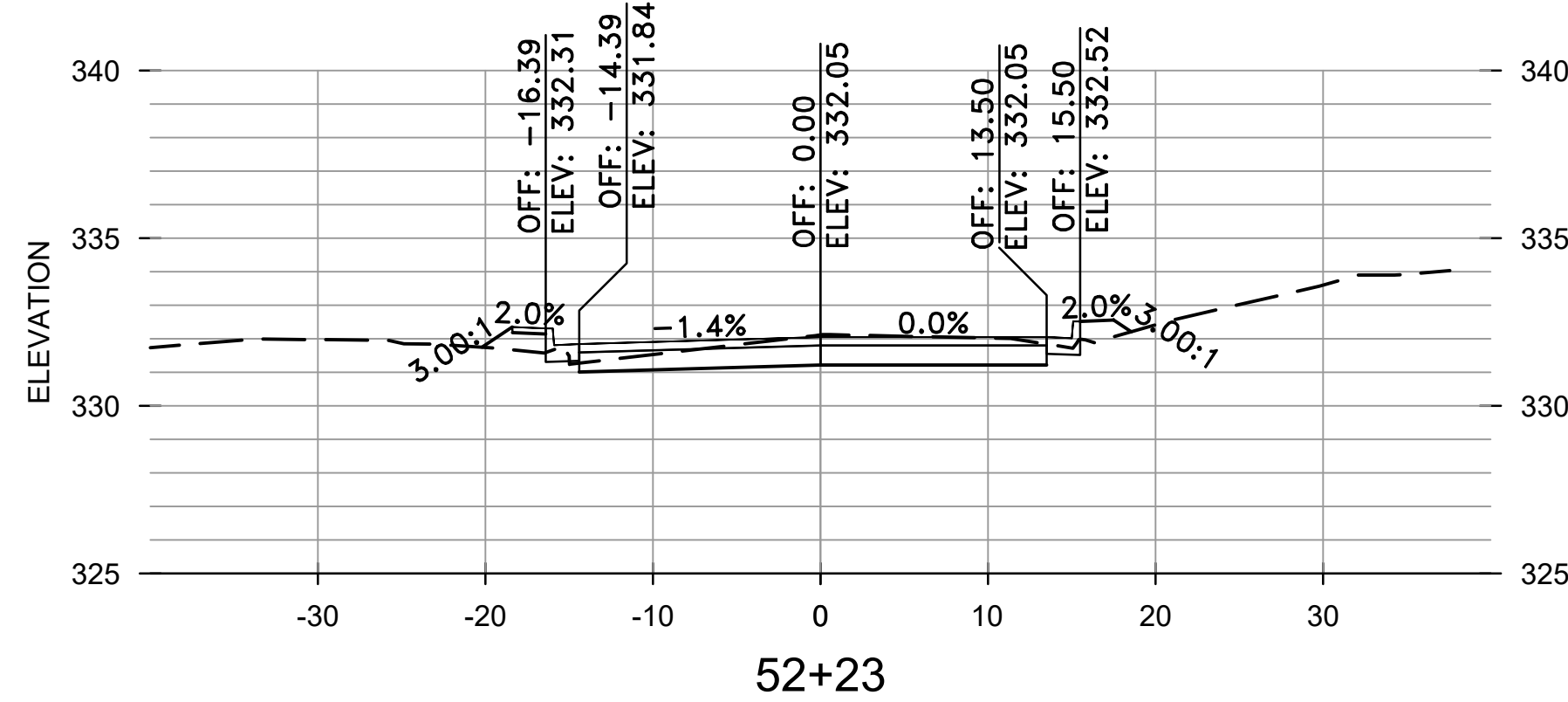
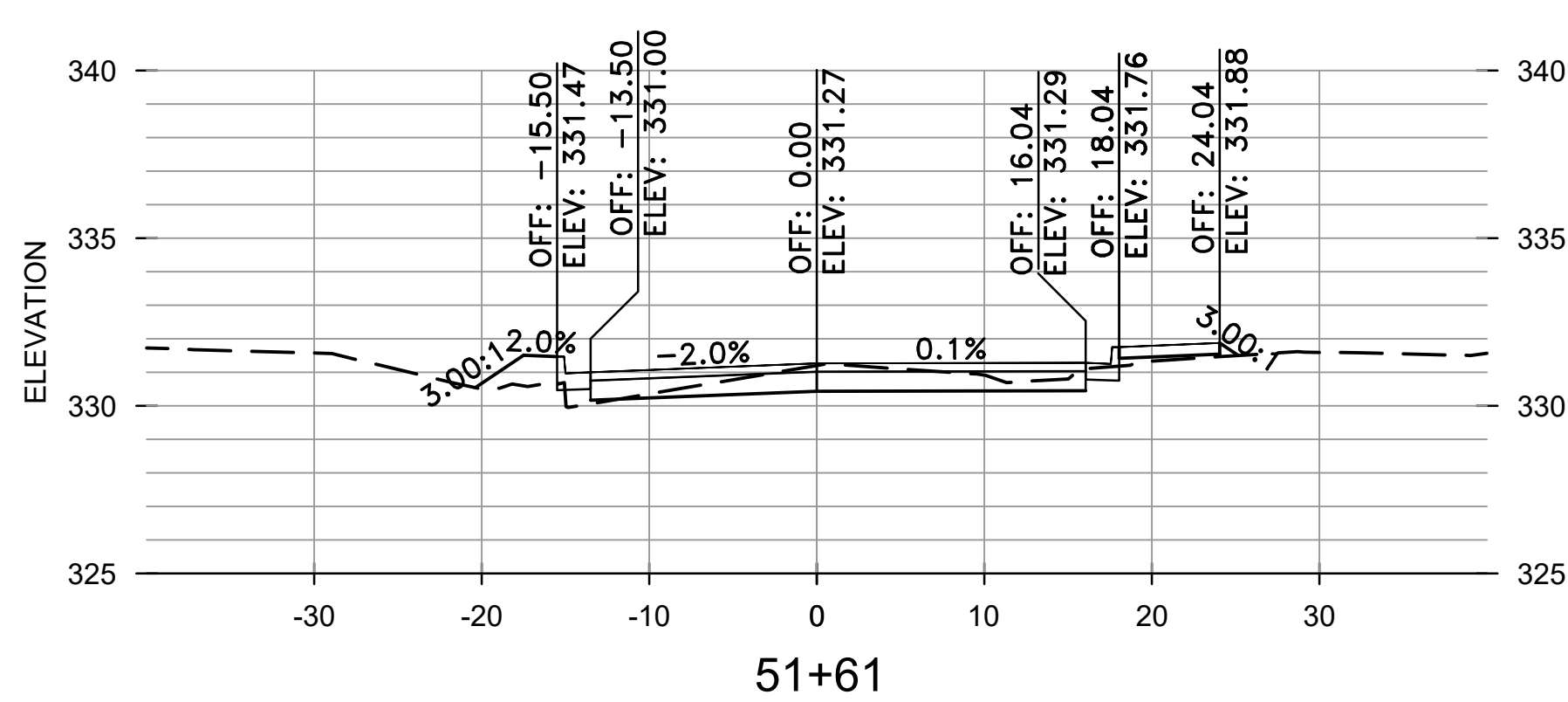
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

CROSS SECTIONS
VALMAR STREET

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CIVIL ENGINEERING
701 W. MARKHAM
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TCP
DESIGNED
RCC
CHECKED
RCC
DATE
3-3-2025
SCALE
H: 1"=10'
V: 1"=5'
PROJECT NO.
03-17-DR-107
SHEET NO.
C31



REVISIONS	DATE

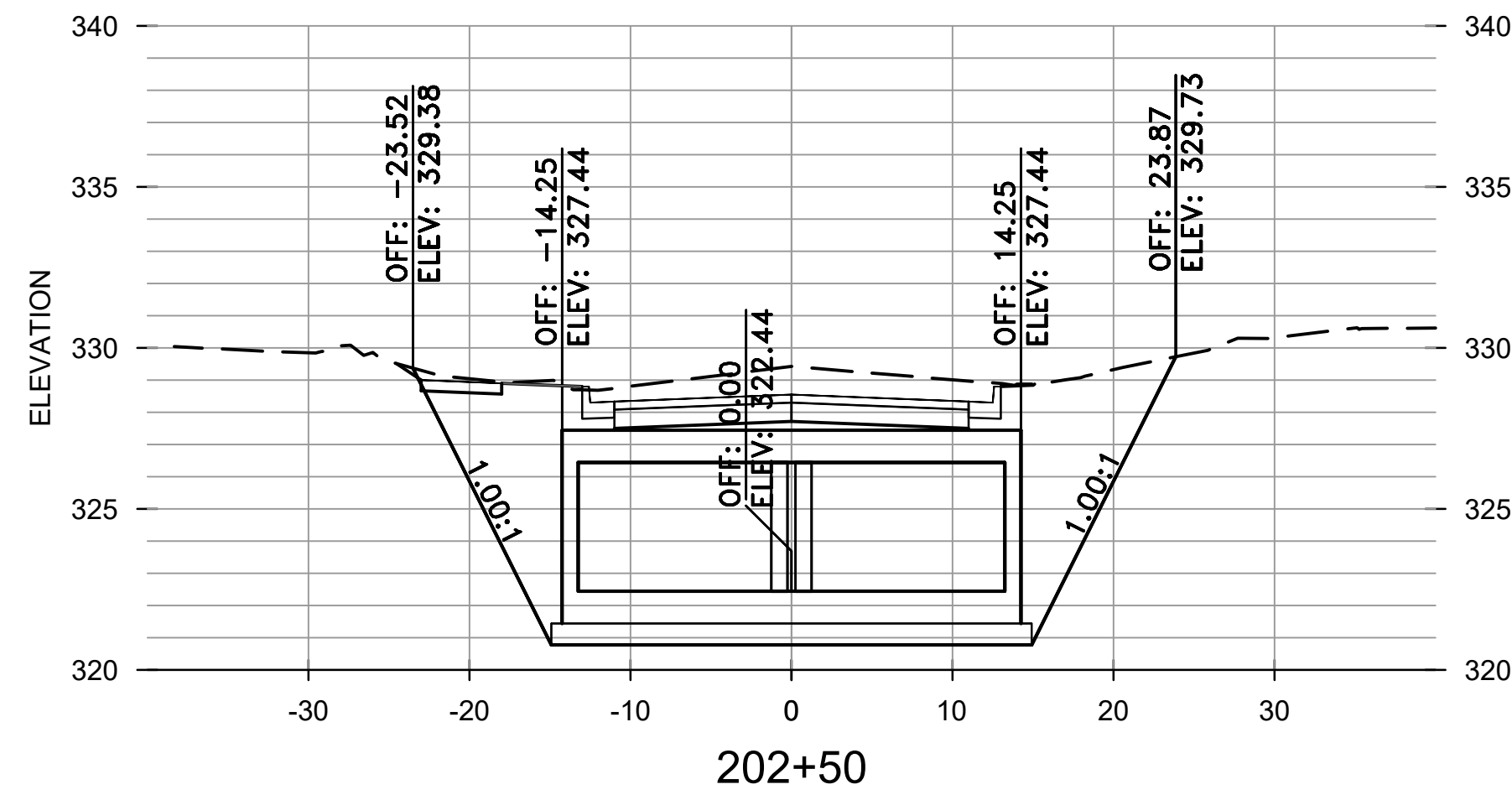
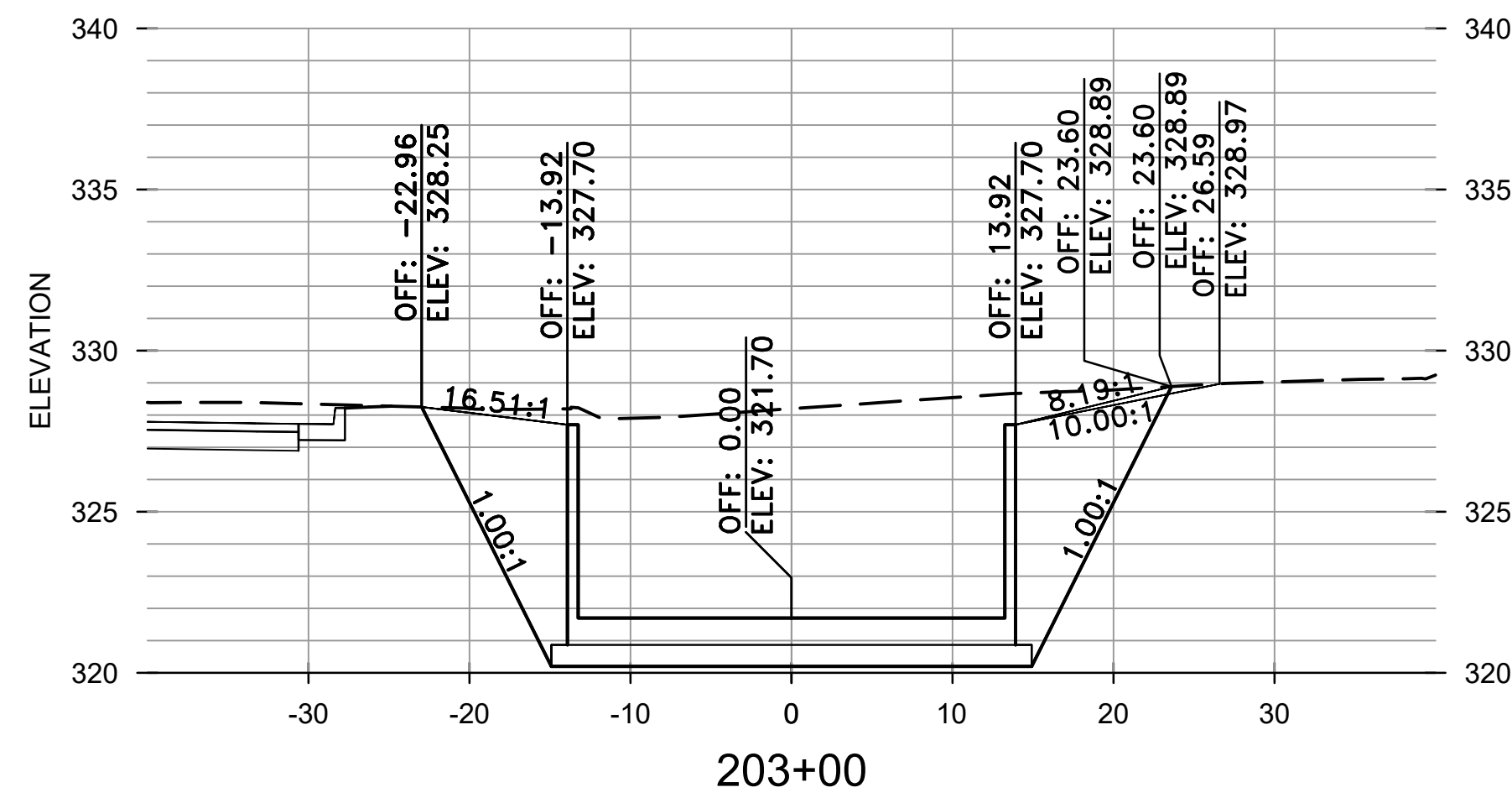
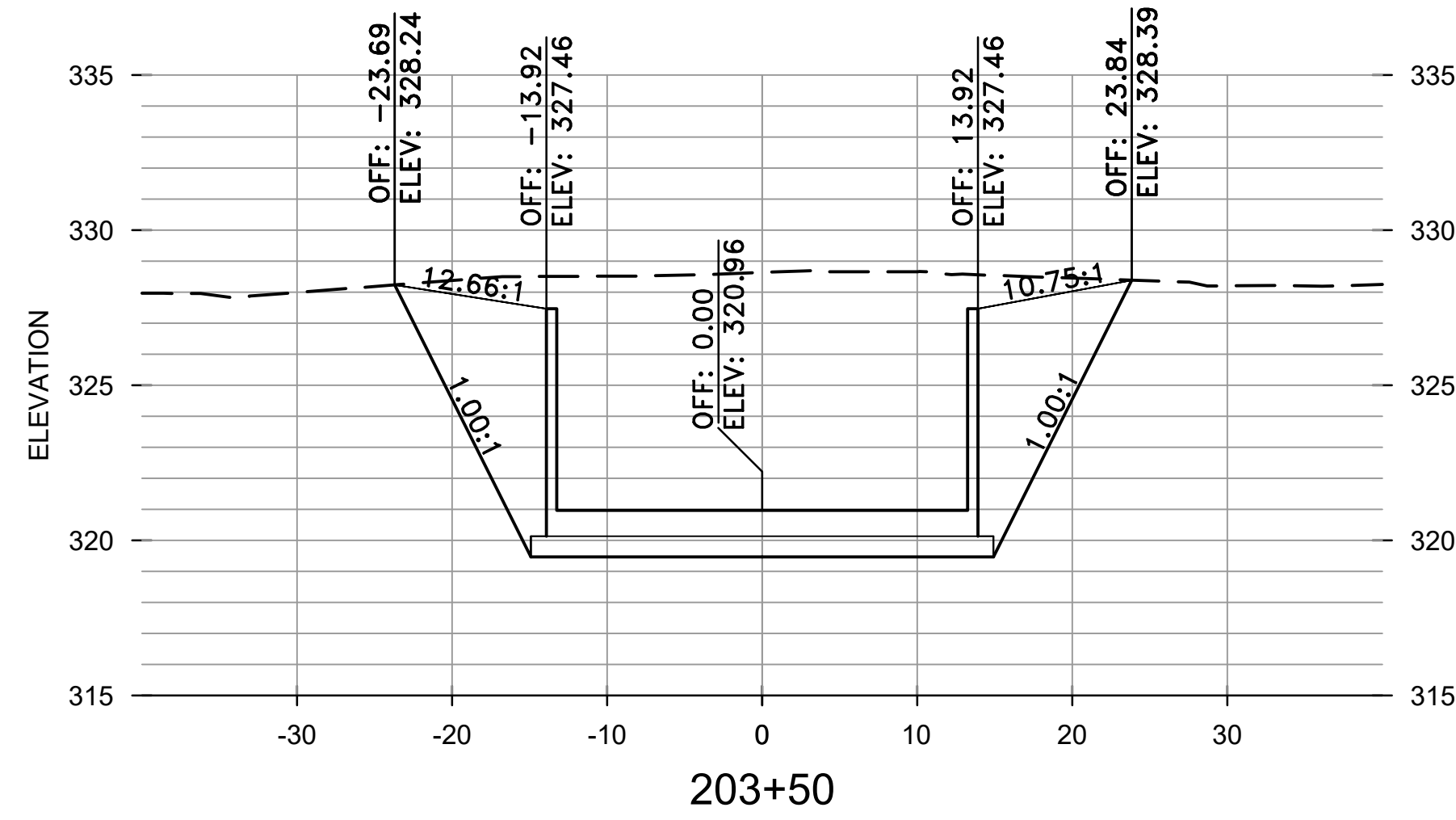
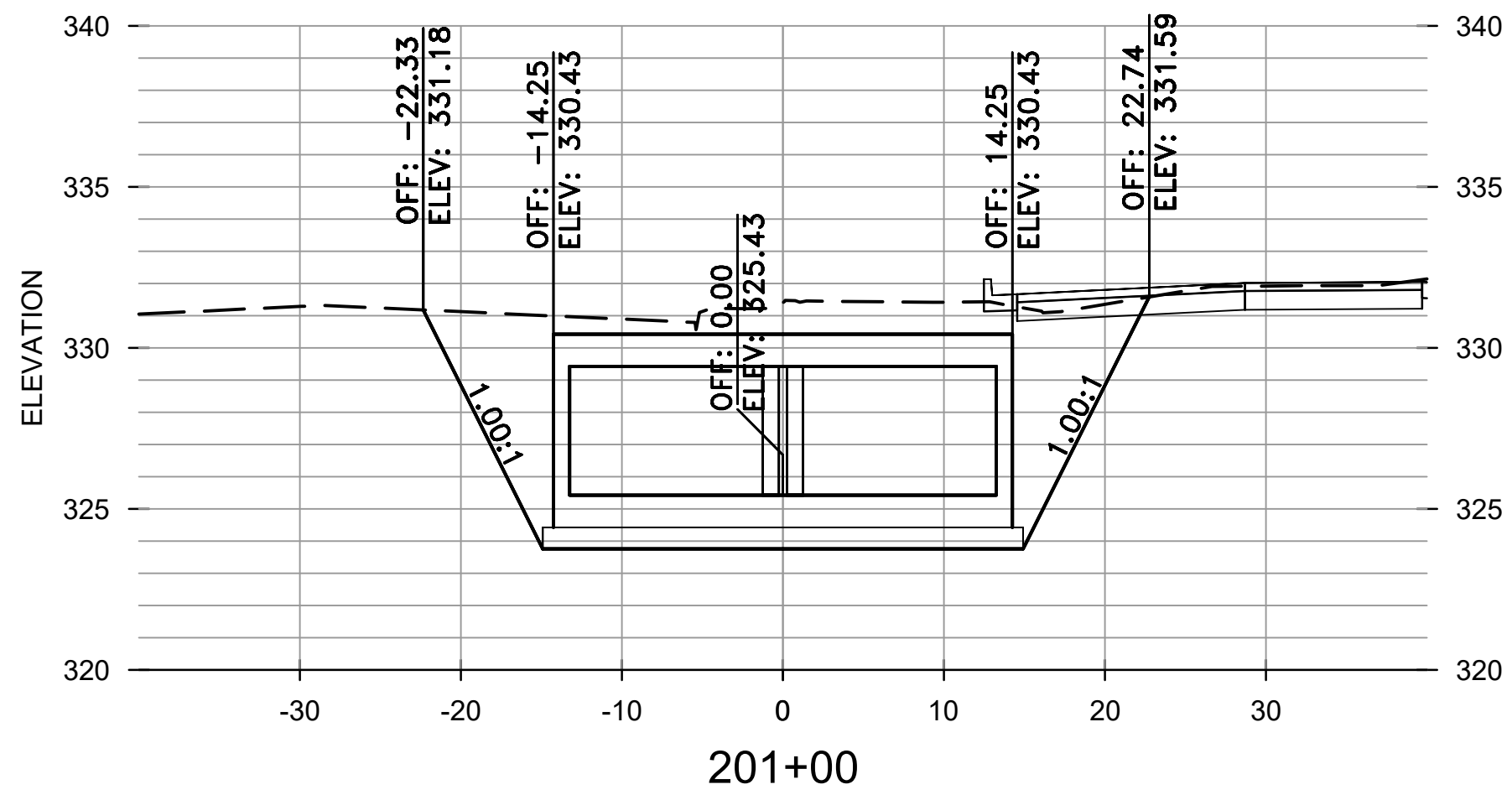
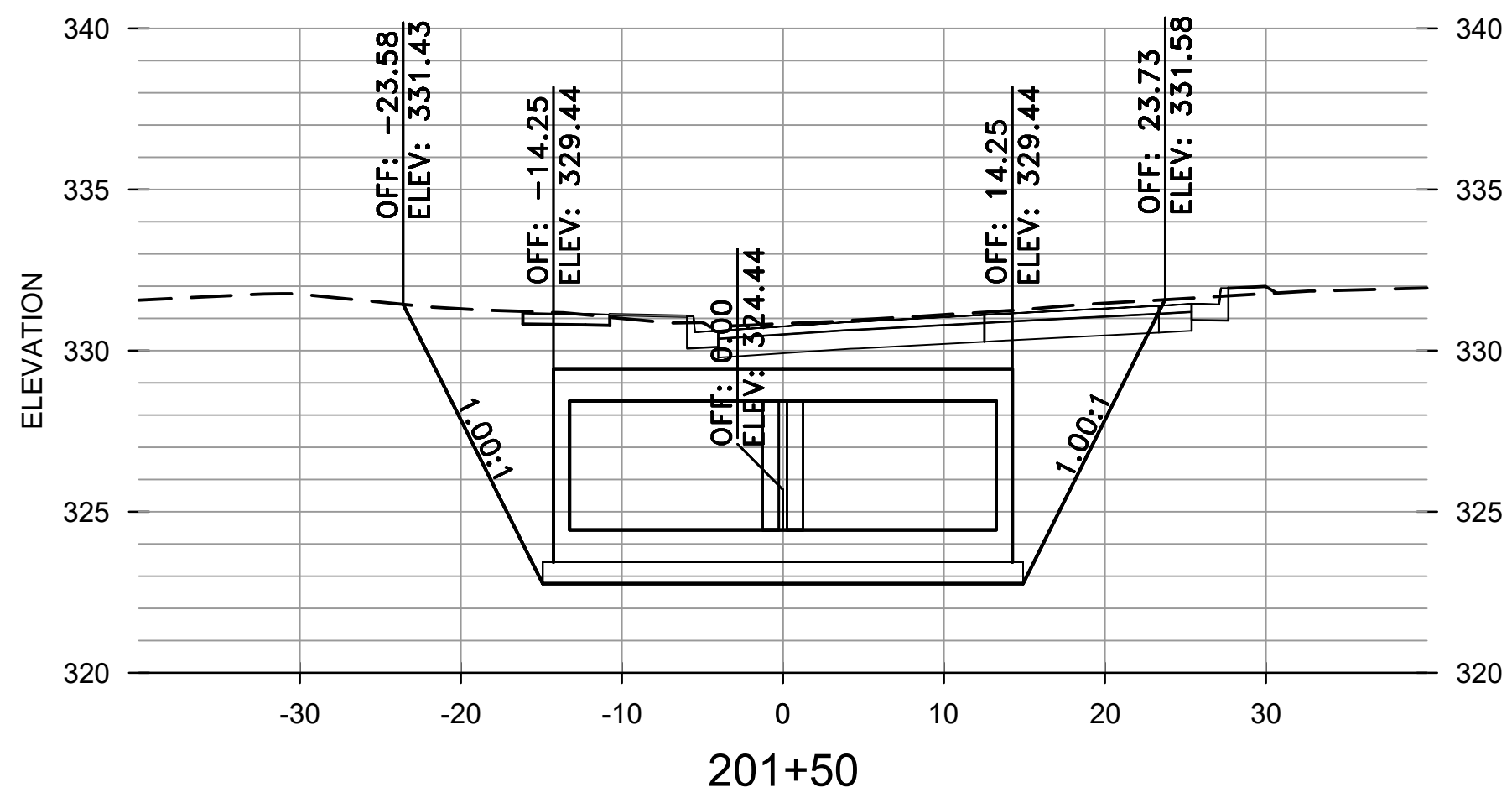
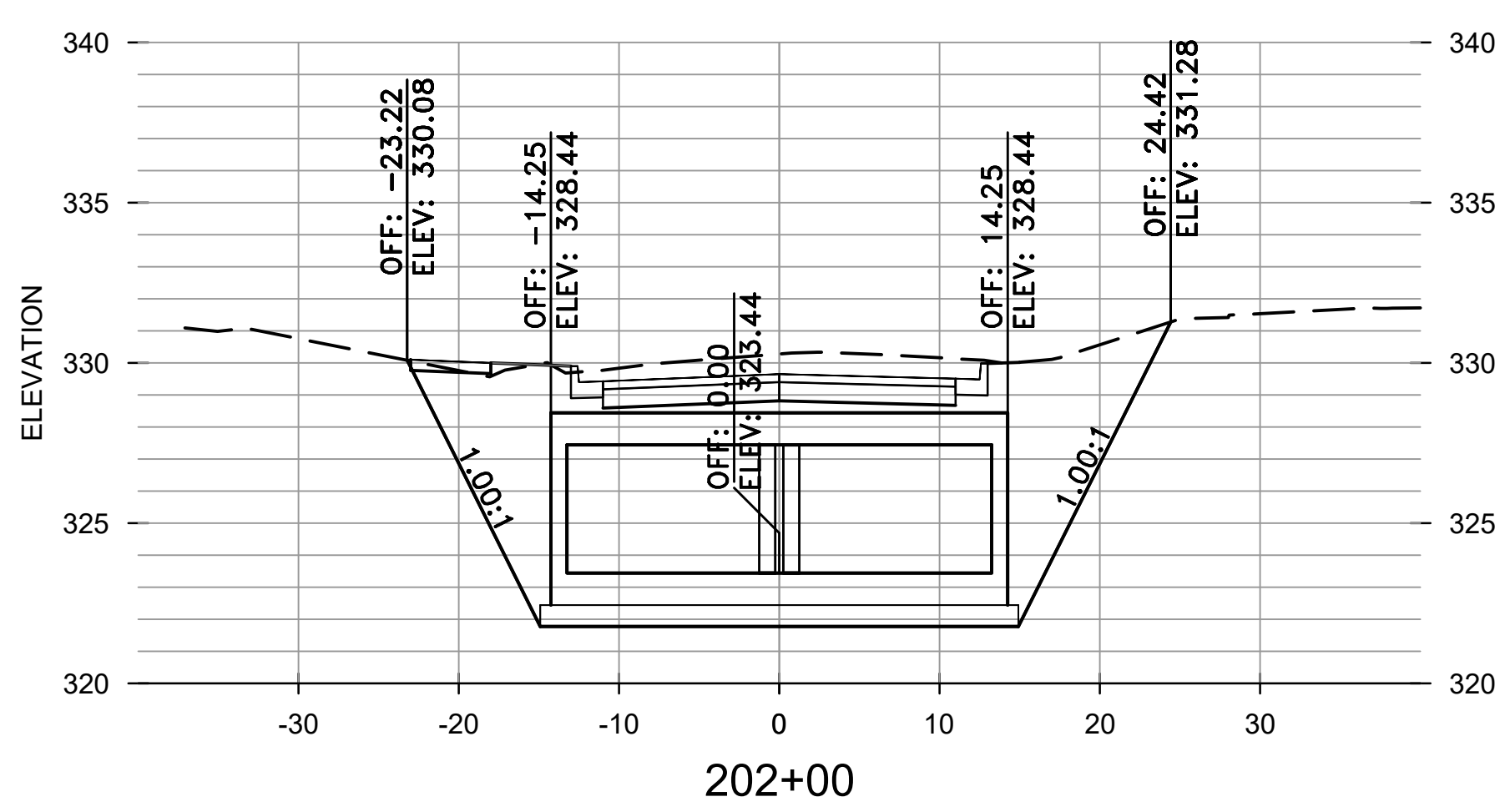
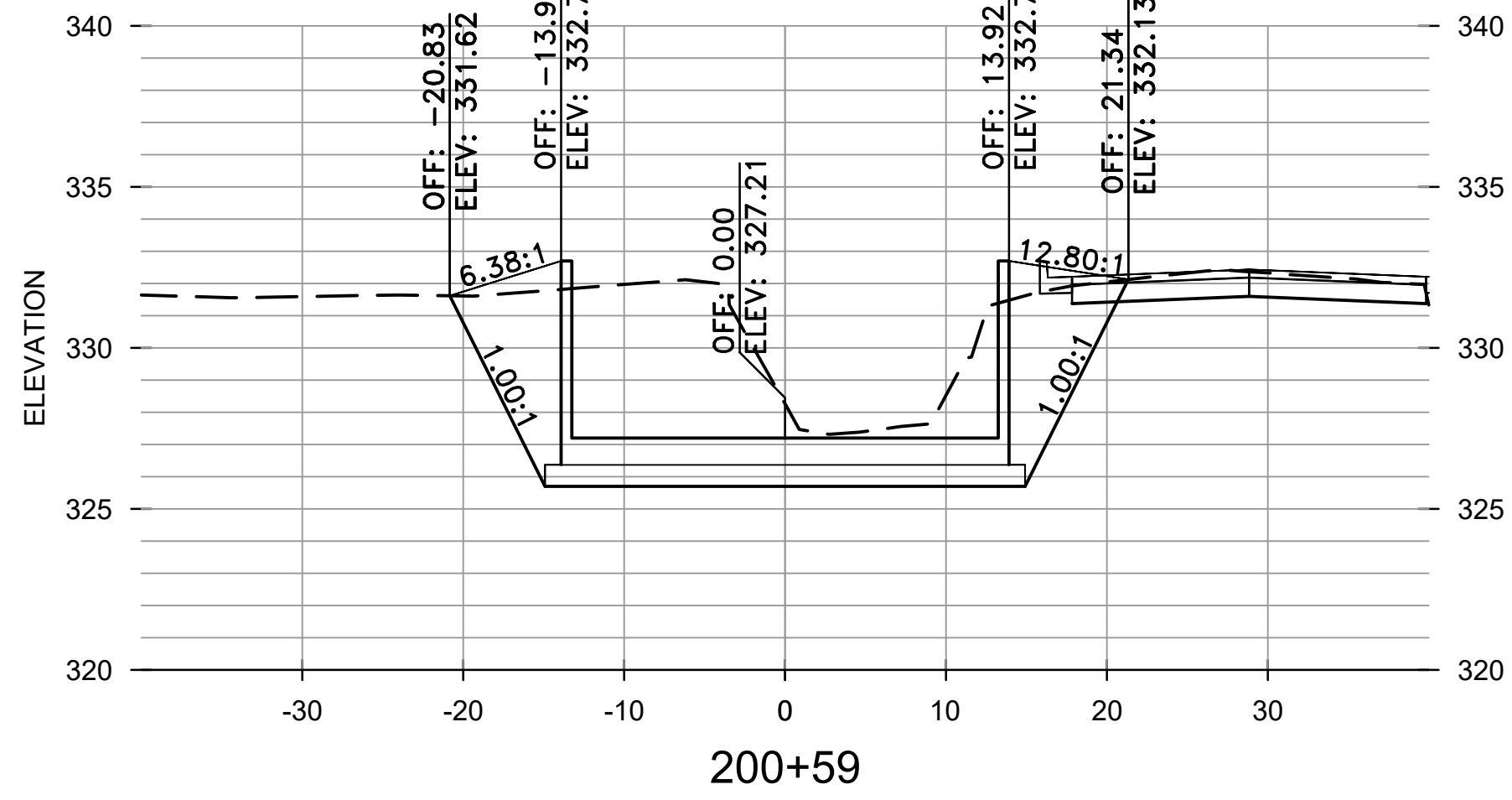
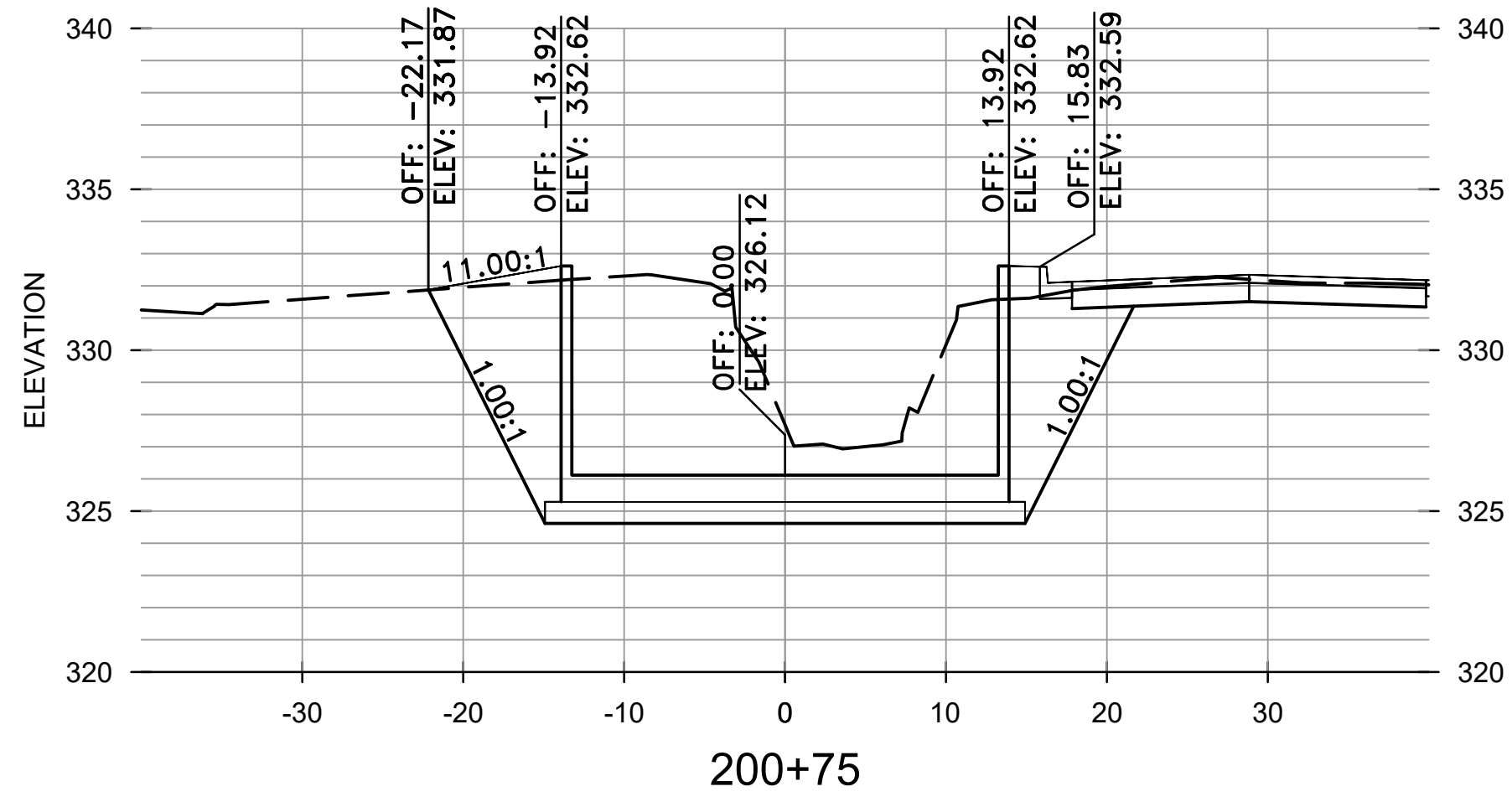
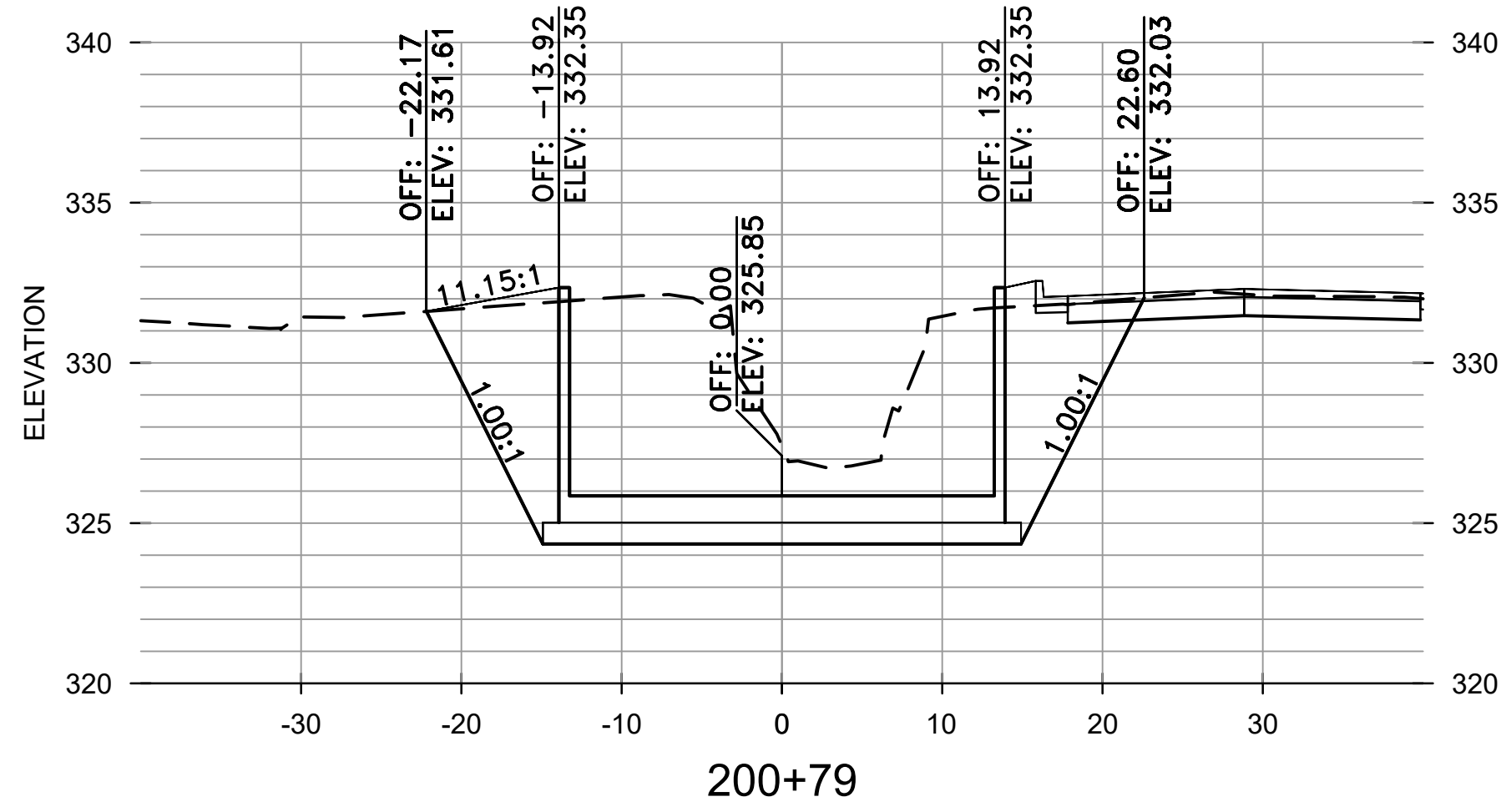
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

CROSS SECTIONS
VALENTINE STREET

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



DRAWN BY TCP
DESIGNED RCC
CHECKED RCC
DATE 3-3-2025
SCALE H: 1"=10' V: 1"=5'
PROJECT NO. 03-17-DR-107
SHEET NO. C32

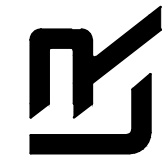


REVISIONS	DATE

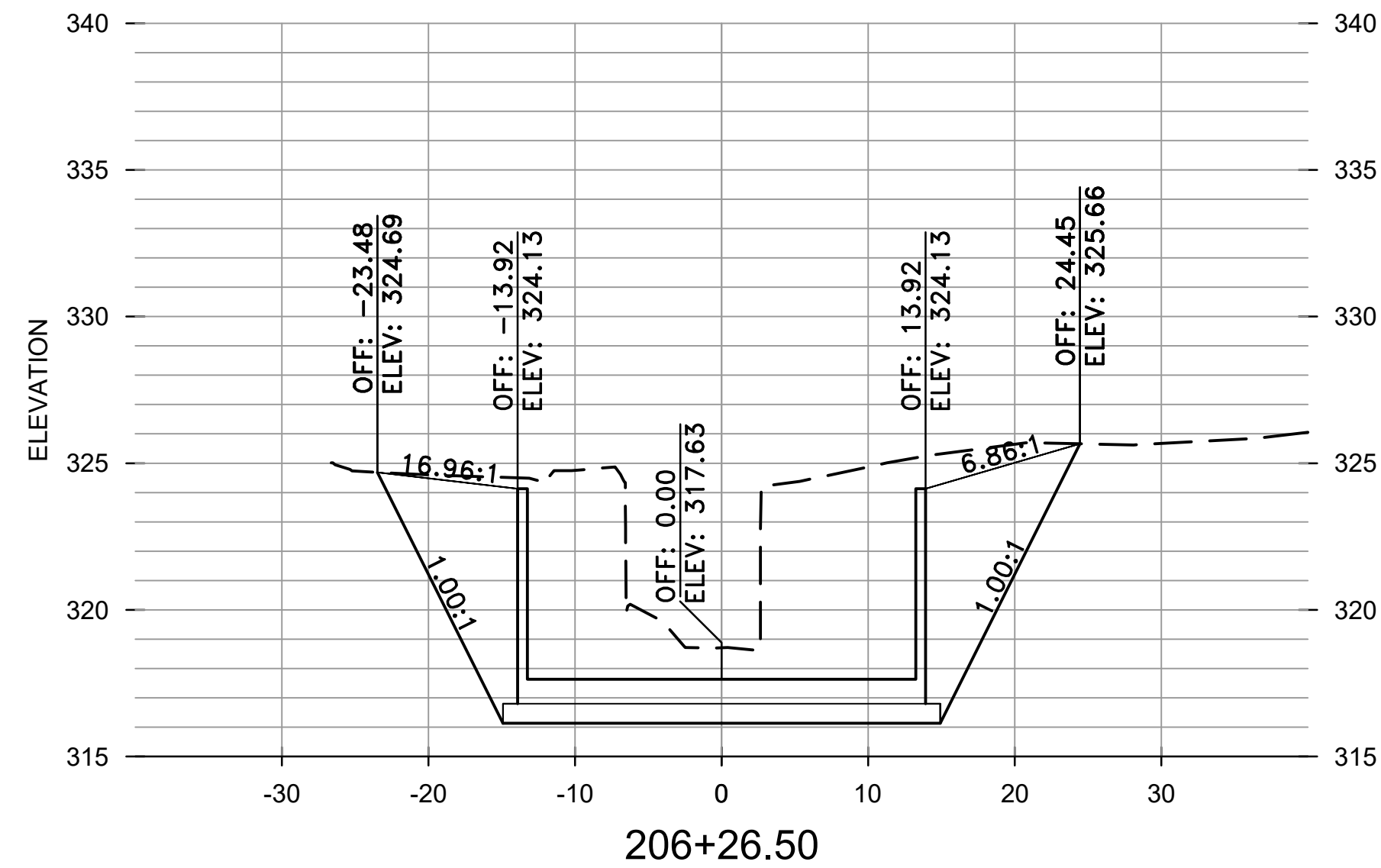
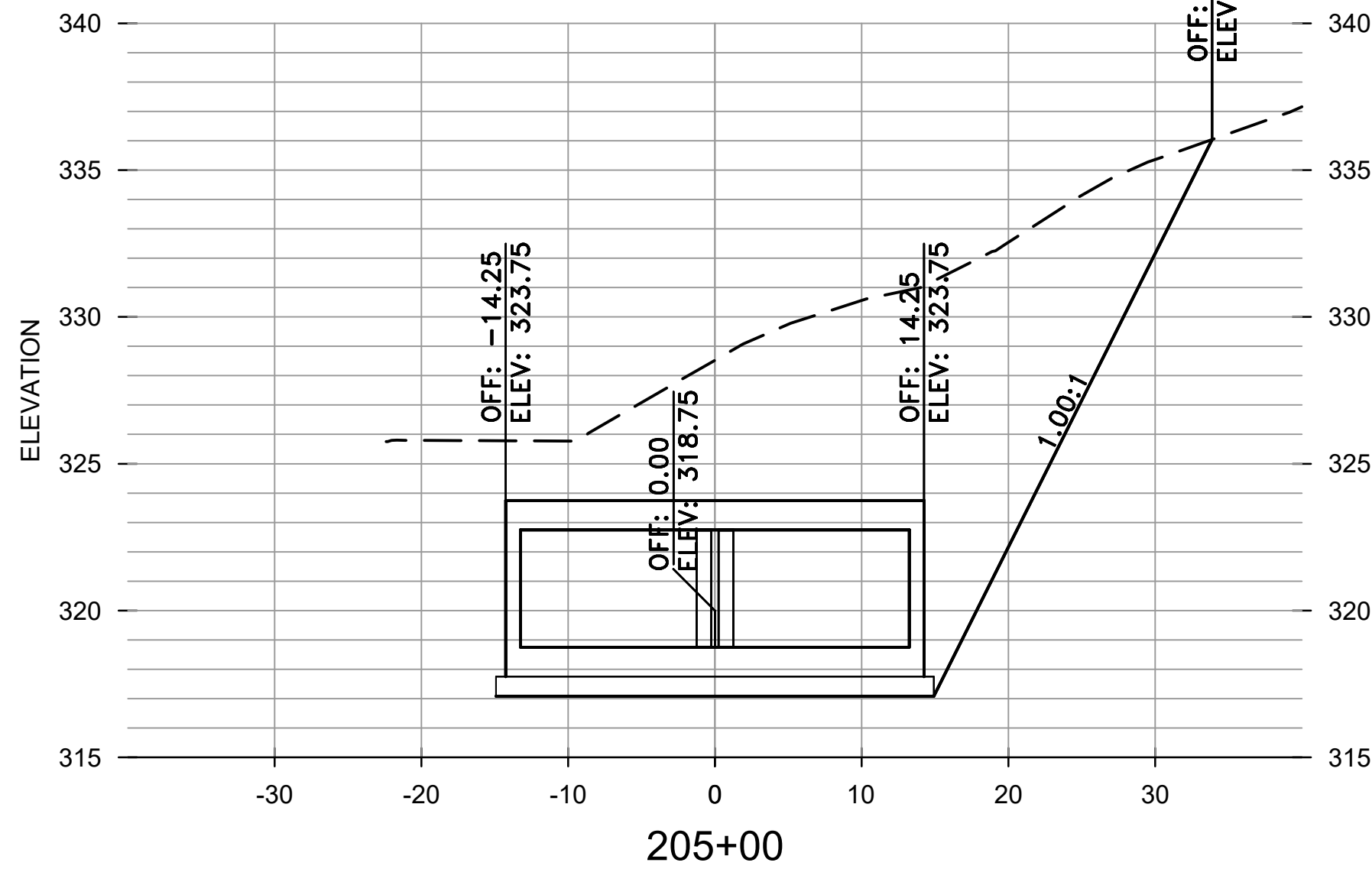
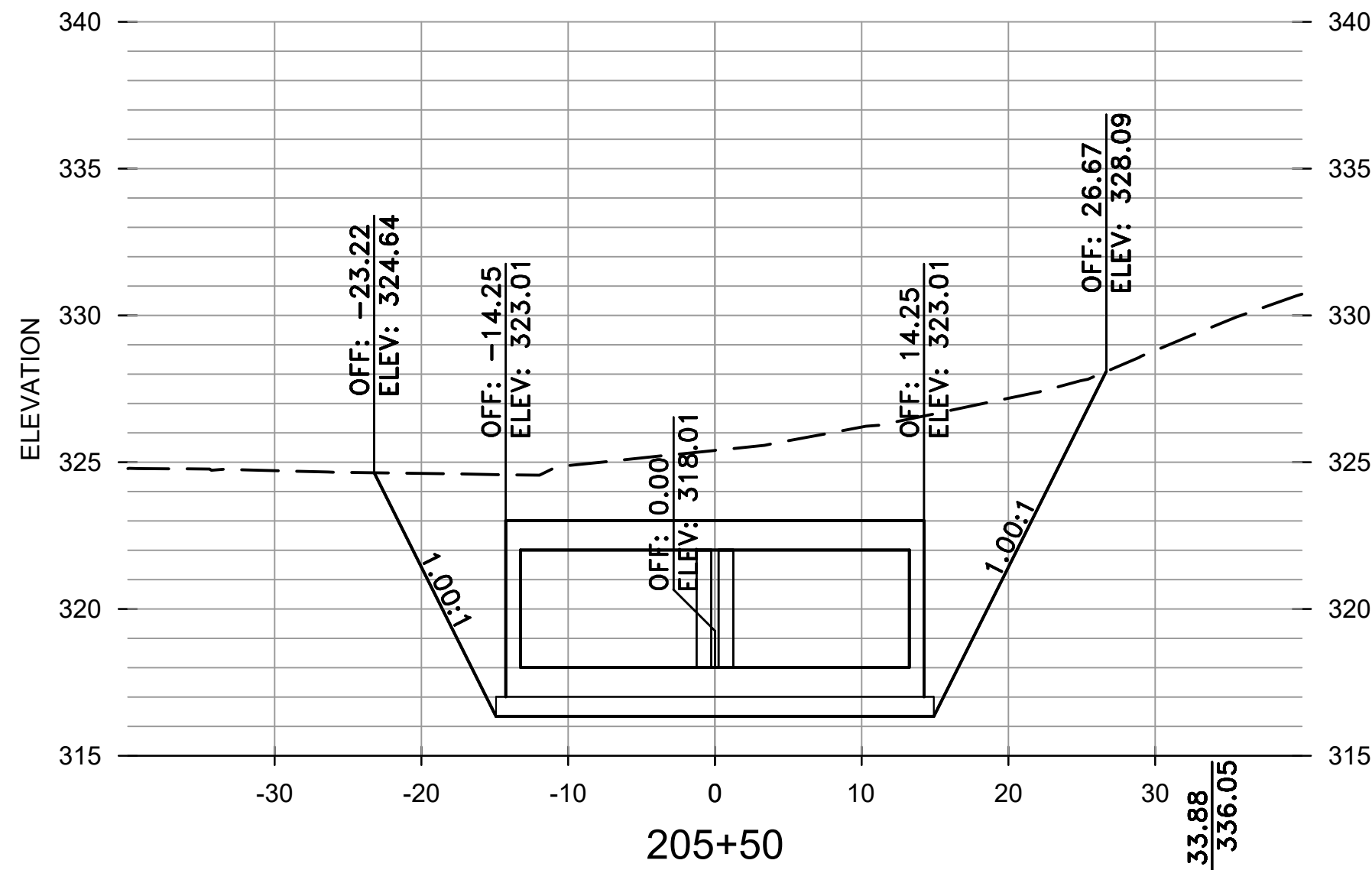
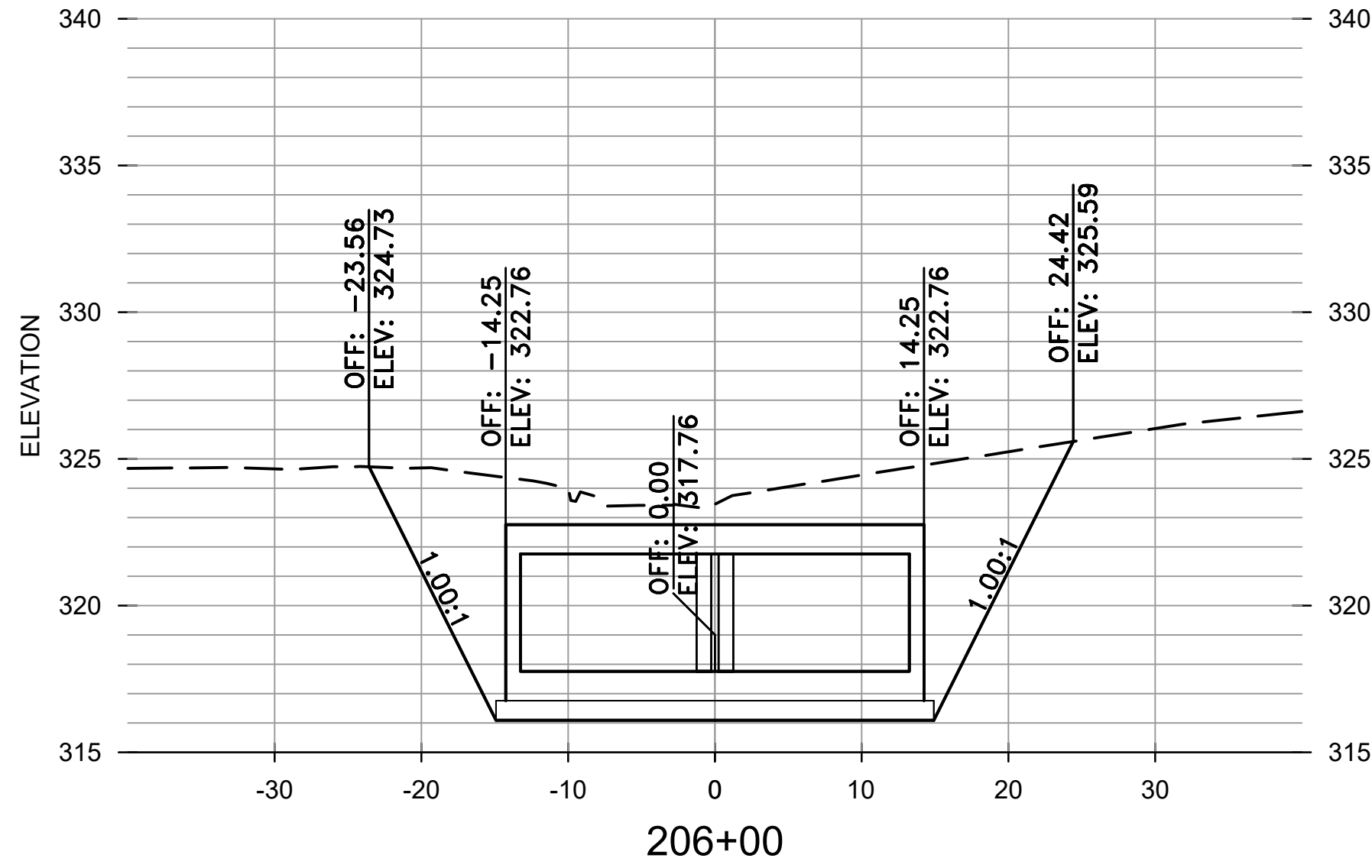
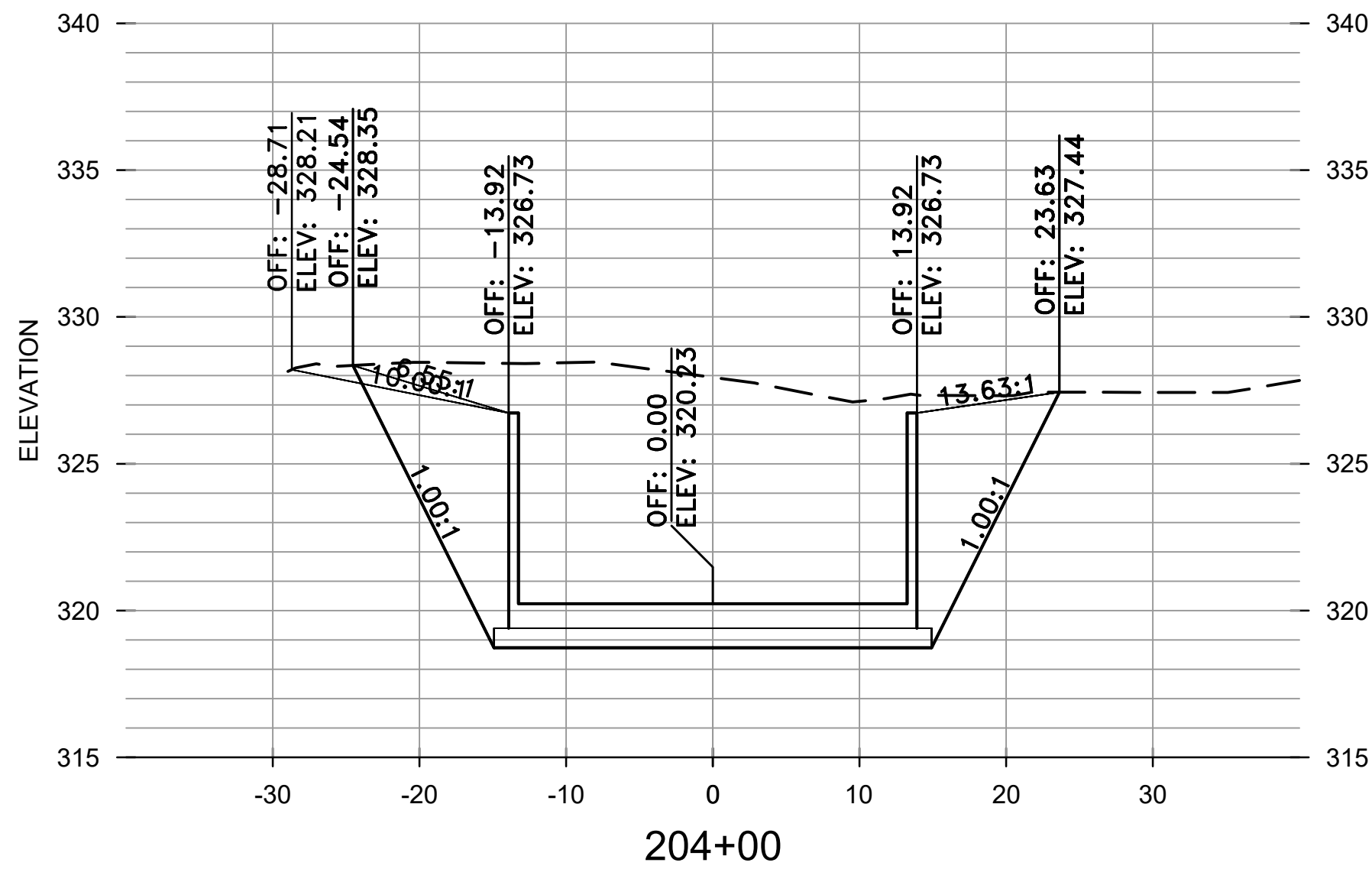
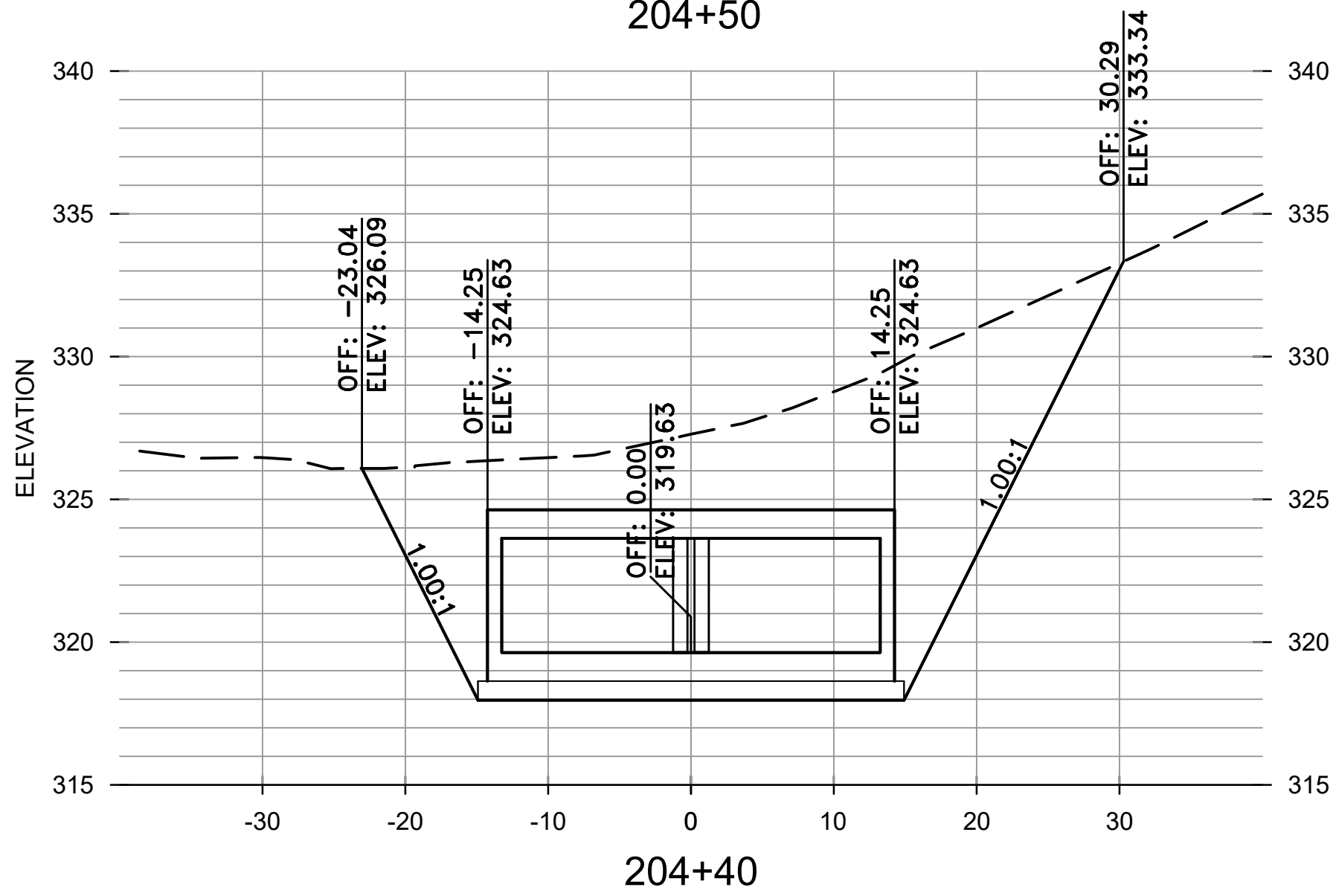
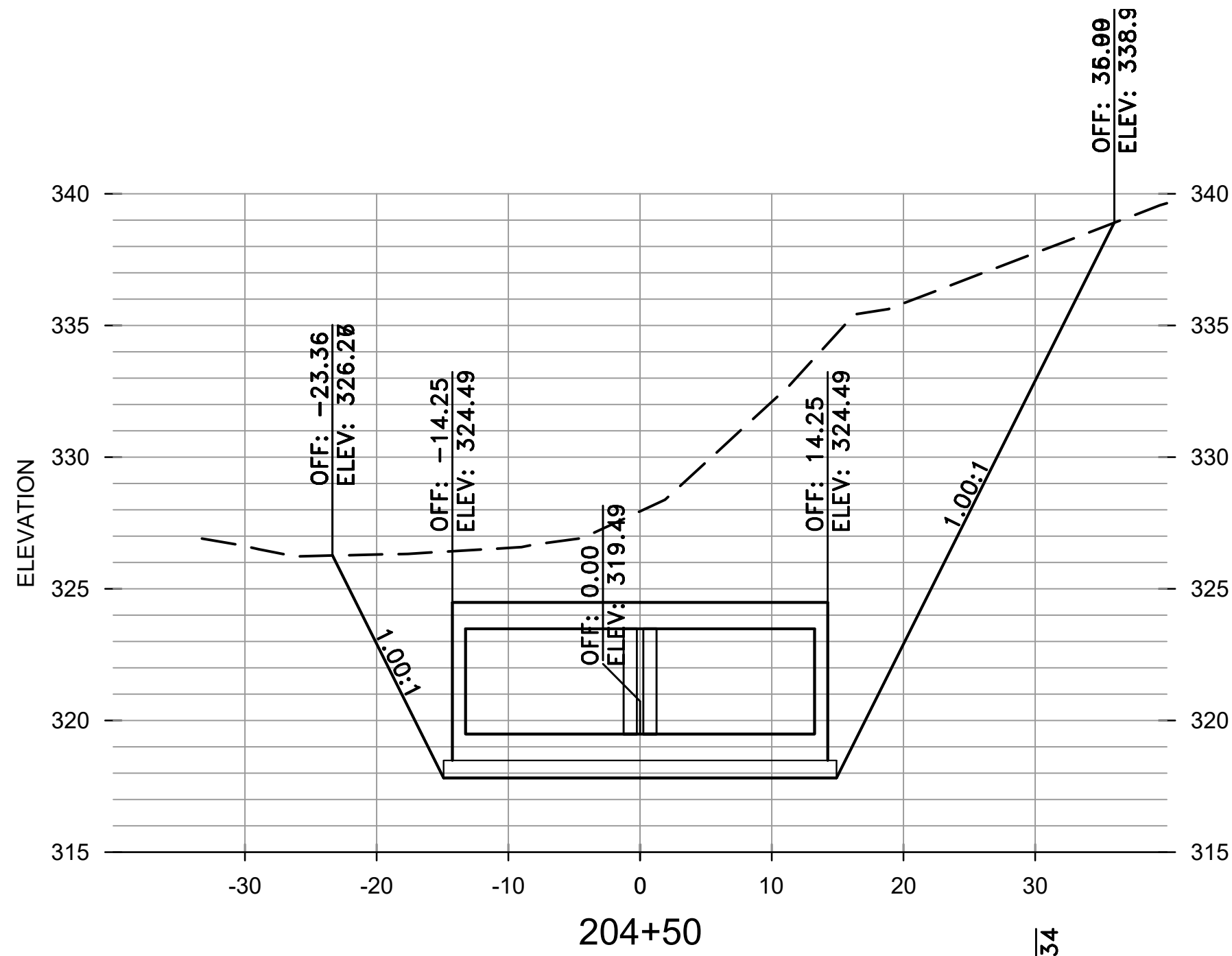
CITY OF LITTLE ROCK, ARKANSAS
WEST 4TH STREET DRAINAGE
AND STREET IMPROVEMENTS

CROSS SECTIONS
BOX AND CHANNEL

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



DRAWN BY TCP
DESIGNED RCC
CHECKED RCC
DATE 3-3-2025
SCALE H: 1"=10' V: 1"=5'
PROJECT NO. 03-17-DR-107
SHEET NO. C33

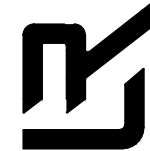


REVISIONS	DATE

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

CROSS SECTIONS
BOX AND CHANNEL

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



DRAWN BY TCP
DESIGNED RCC
CHECKED RCC
DATE 3-3-2025
SCALE H: 1"=10' V: 1"=5'
PROJECT NO. 03-17-DR-107
SHEET NO. C34