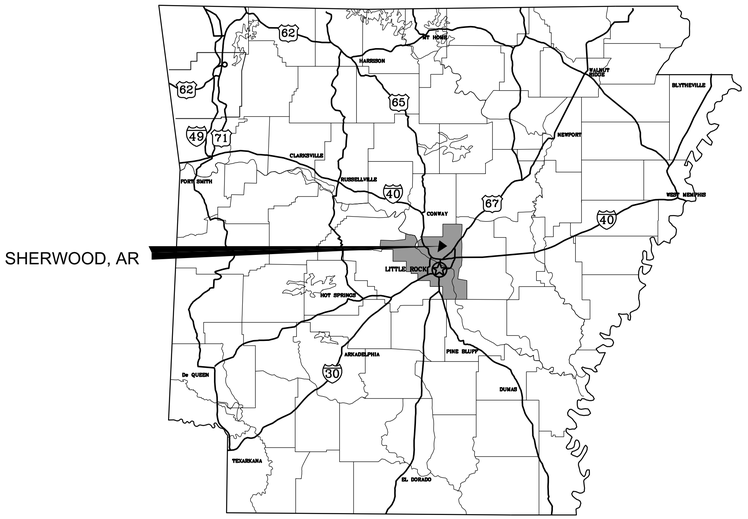
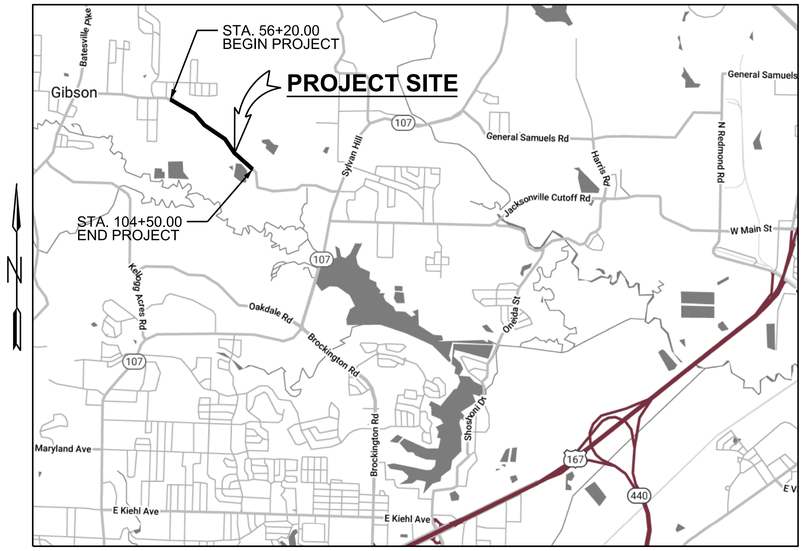
JACKSONVILLE-CATO ROAD
LYBRAND DR. TO HWY. 107
STREET AND DRAINAGE IMPROVEMENTS - PHASE I
CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS



LOCATION MAP

SHERWOOD



VICINITY MAP

NO SCALE

PROJECT LIMITS

LENGTH COMPUTED ALONG C.L. JACKSONVILLE-CATO RD.

GROSS LENGTH OF PROJECT	4830.00 FEET OR 0.915 MILES
NET LENGTH OF ROADWAY	4830.00 FEET OR 0.915 MILES
NET LENGTH OF BRIDGES	0000.00 FEET OR 0.000 MILES
NET LENGTH OF PROJECT	4830.00 FEET OR 0.915 MILES

GARVER PROJECT NO. 18017190
JUNE 2023

GARVER

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

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CERTIFICATE OF AUTHORIZATION
GARVER LLC
No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - UPDATED JOB LENGTH	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

COVER SHEET

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: JAW

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DRAWING NUMBER
G-001

SHEET NUMBER **001**

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INDEX OF SHEETS

SHEET NO.	TITLE	DRAWING NO.	DATE
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003	PROJECT LAYOUT	G-100	
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013	INTERSECTION DETAILS	C-204	
014	SPECIAL DRIVEWAY LAYOUTS	C-205	
015 - 019	ROUNDABOUT SPECIAL DETAILS	C-206 TO C-210	9/29/2022
020 - 029	BOX CULVERT SPECIAL DETAILS	C-211 TO C-220	2/2/2022
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030	TEMPORARY EROSION CONTROL NOTES, LEGEND, AND REVISION BOX	C-301	
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CURBING DETAILS	CG-1	11/29/2007
DETAILS OF DROP INLETS (TYPE C)	FPC-9E	8/22/2002
FLARED END SECTION	FES-1	10/18/1996
FLARED END SECTION	FES-2	10/18/1996
PRECAST CONCRETE BOX CULVERTS	PBC-1	1/28/2015
CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING	PCC-1	2/27/2014
PAVEMENT MARKING DETAILS	PM-1	2/27/2020
REINFORCED CONCRETE BOX CULVERT DETAILS	RCB-1	7/26/2012
EXCAVATION PAY LIMITS, BACKFILL, & SOLID SODDING FOR BOX CULVERTS	RCB-2	11/20/2013
STANDARD HIGHWAY SIGNS AND SUPPORT ASSEMBLIES	SHS-1	9/2/2013
U-CHANNEL POST ASSEMBLIES	SHS-2	7/25/2019
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STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-2	11/7/2019
STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-3	2/27/2020
STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-5	11/7/2019

CITY OF SHERWOOD STANDARD DETAILS

TITLE	DRAWING NO.	DATE
CURB INLET - SINGLE WING REINFORCED CONCRETE CONSTRUCTION DETAILS	STD-1	2/27/2007
CURB INLET - DOUBLE WING REINFORCED CONCRETE CONSTRUCTION DETAILS	STD-2	1/19/2007
CURB INLET - JUNCTION BOX CIRCULAR MONOLITHIC CONCRETE CONSTUCTION DETAILS	STD-7	1/1/2007
TYPICAL DRAINAGE INLET THROAT OPENING DETAIL DETAIL WHERE IN CURB RADIUS	STD-9A	1/1/2007
TYPICAL DRAINAGE INLET THROAT OPENING DETAIL DETAIL (NOT IN RADIUS)	STD-9	1/1/2007
CURB INLET STEPS	STD-11	1/1/2007
TYPE 1 RING AND COVER NON -TRAFFIC	STD-12	1/1/2007
MAIL BOX INSTALLATION DETAILS	STD-17	1/1/2007
PROJECT KIOSK FOR SUBDIVISIONS	STD-18	1/1/2007
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HANDRAIL DETAIL	STD-21	1/1/2007
TYPICAL SECTION RESIDENTIAL STREET 27'-0" BACK TO BACK OF CURB	STD-22	1/1/2007
RESIDENTIAL DRIVEWAY DETAILS	STD-30	1/1/2007
RESIDENTIAL DRIVEWAY DETAILS	STD-31	1/1/2007
RADIUS DRIVEWAY DETAIL FOR COMMERCIAL DRIVEWAYS (SIDEWALK AWAY FROM CURVE)	STD-34	1/1/2007
SIDEWALK DETAILS	STD-41	1/1/2007
ACCESS RAMP DETAIL (GENERAL NOTES & RAMP CRITERIA)	STD-48	1/1/2007
ACCESS RAMP DETAIL TYPE 3 EXPANSION JOINT	STD-51	1/1/2007
HANDICAP RAMP IN RADIUS	STD-53A	1/1/2007
CHAIN LINK FENCE DETAIL RESIDENTIAL SHEET 1 OF 2	STD-55-1	1/1/2007
CHAIN LINK FENCE DETAIL RESIDENTIAL SHEET 2 OF 2	STD-55-2	1/1/2007
SLOPE ROUNDING DETAIL	STD-61	1/1/2007
FLARED END SECTION RIP RAP PLACEMENT DOWNSTREAM END	STD-62	1/1/2007
TEMPORARY EROSION CONTROL DEVICES	STD-63	1/1/2007
TREE PROTECTION	STD-66	1/1/2007
SHERWOOD STANDARD STREET SIGNS	STD-67	1/1/2007

GENERAL NOTES:

1. CAUTION: UNDERGROUND UTILITIES EXIST WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION. AN ATTEMPT HAS BEEN MADE TO LOCATE THESE UTILITIES ON THE PLANS; HOWEVER, ALL EXISTING UTILITIES MAY NOT BE SHOWN AND THE ACTUAL LOCATIONS OF THE UTILITIES MAY VARY FROM THE LOCATIONS SHOWN. SOME UTILITIES MAY HAVE BEEN RELOCATED SINCE THE TIME OF DESIGN AND THE CONTRACTOR'S NOTICE TO PROCEED. PRIOR TO BEGINNING ANY TYPE OF EXCAVATION, THE CONTRACTOR SHALL CONTACT THE UTILITIES INVOLVED AND MAKE ARRANGEMENTS FOR THE LOCATION OF THE UTILITIES ON THE GROUND. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NECESSARY. ARKANSAS STATE LAW, THE UNDERGROUND FACILITIES DAMAGE PREVENTION ACT, REQUIRES TWO WORKING DAYS ADVANCE NOTIFICATION THROUGH THE ARKANSAS ONE-CALL SYSTEM CENTER BEFORE EXCAVATING USING MECHANIZED EQUIPMENT OR EXPLOSIVES (EXCEPT IN THE CASE OF EMERGENCY). THE ONE-CALL SYSTEM PHONE NUMBER IS 1-800-482-8998. THE CONTRACTOR IS ADVISED THAT THERE IS A SEVERE PENALTY FOR NOT MAKING THIS CALL. NOT ALL UTILITY COMPANIES ARE MEMBERS OF THE ARKANSAS ONE-CALL SYSTEM; THEREFORE, THE CONTRACTOR IS ADVISED TO CONTACT ALL NON-MEMBER UTILITIES AS WELL AS THE ONE-CALL SYSTEM. THE LOCATION OF THE EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE, AND ARE THE LOCATIONS AT THE TIME OF DESIGN.
2. GRADE LINE DENOTES FINISHED GRADE WHERE SHOWN ON PLANS.
3. ALL PROPERTY CORNERS (IRON PINS) OR OTHER MONUMENTS LOCATED WITHIN THE PROPOSED CONSTRUCTION SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE ARDOT STANDARD SPECIFICATIONS.
4. THE CONTRACTOR SHALL NOT CLEAR AREAS WITHIN THE RIGHT-OF-WAY THAT ARE NOT AFFECTED BY CONSTRUCTION. SPECIAL CARE SHALL BE TAKEN TO ENSURE ALL TREES THAT DO NOT DIRECTLY INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE PROTECTED AND SAVED. CARE AND DISCRETION SHALL BE USED TO PROTECT TREES NOT IDENTIFIED FOR REMOVAL.
5. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND ELEVATIONS OF ALL UTILITIES, WATER LINES AND SANITARY SEWER LINES PRIOR TO CONSTRUCTION.
6. ALL PIPE, UNLESS OTHERWISE NOTED, SHALL BE REINFORCED CONCRETE PIPE (CLASS III) WITH ARDOT TYPE 3 BEDDING.

LEGEND

- BOREHOLE
- CONTROL POINTS
- SIGN
- GAS METER
- SANITARY MANHOLE
- WATER VALVE
- WATER METER
- STORM DRAIN MANHOLE
- TELEPHONE RISER
- ELECTRIC JUNCTION BOX
- FIBER OPTIC MANHOLE
- UTILITY POLE
- GUY ANCHOR
- LIGHT POLE

- EXISTING CENTERLINE
- 1260 EXISTING MAJOR CONTOUR
- 1259 EXISTING MINOR CONTOUR
- EXISTING STRUCTURE
- EXISTING GRAVEL DRIVE
- EXISTING DITCH TOPO
- EXISTING STORM DRAIN
- EXISTING VEGETATION LINE
- OHE EXISTING OVERHEAD ELECTRIC UTILITY
- G EXISTING GAS UTILITY
- SS EXISTING SANITARY SEWER UTILITY
- FM EXISTING FORCE MAIN UTILITY
- UGT EXISTING UNDERGROUND TELEPHONE UTILITY
- W EXISTING WATER UTILITY
- EXISTING PROPERTY LINE
- R / W EXISTING RIGHT-OF-WAY
- R / W PROPOSED RIGHT-OF-WAY
- PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED PERMANENT EASEMENT
- PROPOSED CENTERLINE
- PROPOSED BACK-OF-CURB
- PROPOSED STRUCTURE
- PROPOSED SIDEWALK
- PROPOSED STORM DRAIN
- TOB PROPOSED TOP-OF-BANK
- TOS PROPOSED TOE-OF-SLOPE
- PROPOSED SPECIAL DITCH

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GARVER LLC
No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 12/08/2022

REV.	DATE	DESCRIPTION	BY
1	02/02/22	ADDED BOX CULVERT SHEETS	CMC
2	9/29/22	ADDED CROSS SECTION SHEETS	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

INDEX OF SHEETS, GENERAL NOTES, AND LEGEND

JOB NO.: 18017190
DATE: SEP. 2022
DESIGNED BY: CMC
DRAWN BY: AMW

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SHEET NUMBER **002**

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No.16145
CHARLES M. CULLEN

Digitally Signed 10/12/2021

REV	DATE	DESCRIPTION	BY

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD STREET AND DRAINAGE IMPROVEMENTS - PHASE I

PROJECT LAYOUT

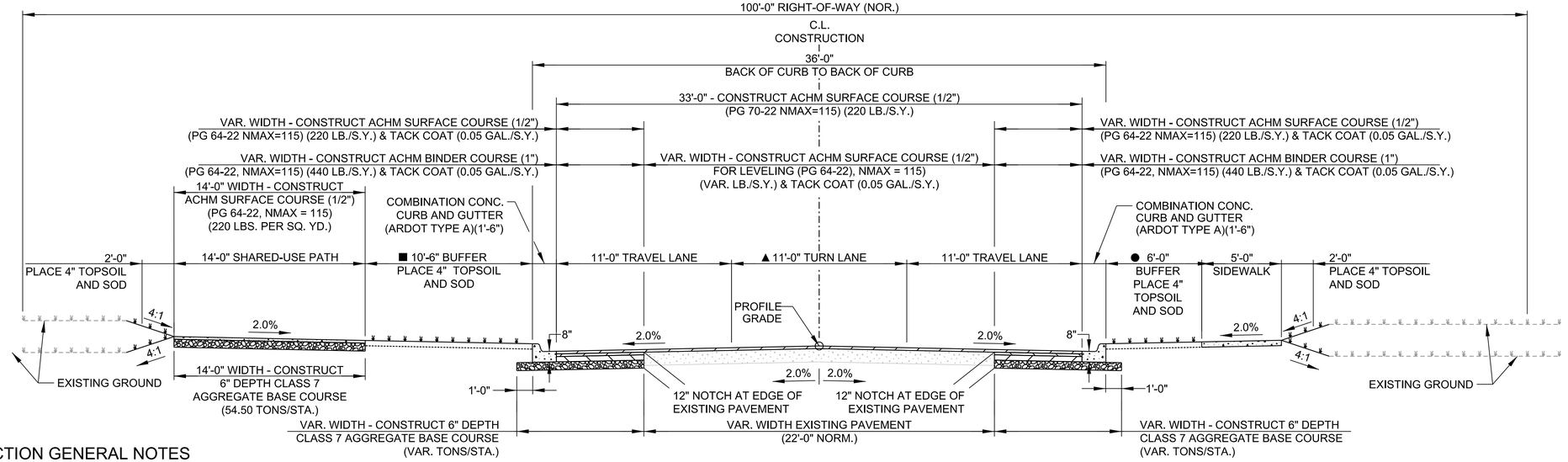
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TYPICAL SECTION GENERAL NOTES

1. REFER TO CROSS SECTIONS FOR DEVIATIONS FROM NORMAL SLOPES. NO CHANGES SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.
2. THE THICKNESS OF AGGREGATE BASE COURSE SHALL BE WITHIN PLUS OR MINUS ONE INCH OF THE PLAN THICKNESS SHOWN. THE CONTRACTOR WILL CORRECT ANY DEFICIENT THICKNESS THAT DOES NOT MEET THE TOLERANCE INDICATED. PAYMENT WILL NOT BE MADE FOR MATERIAL PLACED IN EXCESS OF THE TOLERANCE INDICATED.
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6. BLEEDER DITCHES – PRIOR TO AND DURING PLACEMENT OF PAVEMENT AT THE NOTCH, THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AT ALL TIMES. THE METHOD(S) AND SPACING USED SHALL BE APPROVED BY THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS CONTRACT ITEMS.

TYPICAL SECTION ①

JACKSONVILLE-CATO RD.	STA. 56+45.00 TO STA. 78+30.36
JACKSONVILLE-CATO RD.	STA. 82+28.51 TO STA. 89+93.88
JACKSONVILLE-CATO RD.	STA. 93+79.55 TO STA. 104+50.00

■ CONSTRUCT 5'-0" BUFFER
FROM STA. 59+60.00 TO STA. 61+20.00
FROM STA. 66+90.00 TO STA. 68+75.00
FROM STA. 101+05.00 TO STA. 104+50.00

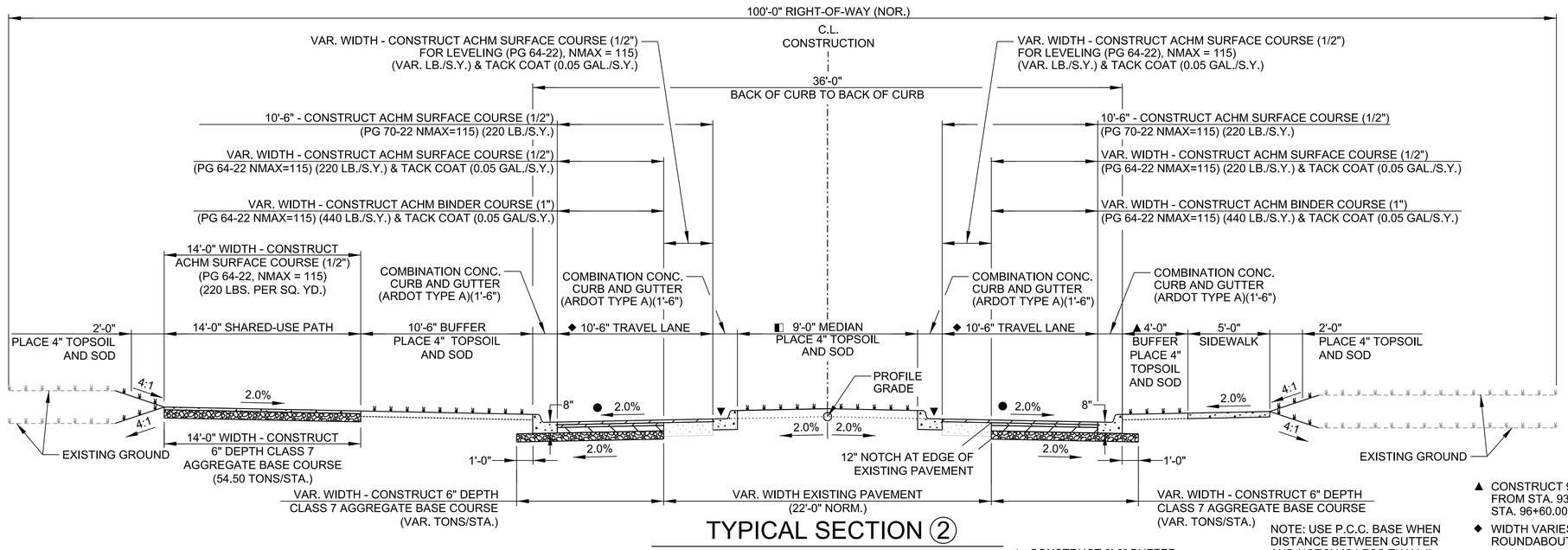
NOTE: USE P.C.C. BASE WHEN DISTANCE BETWEEN GUTTER AND NOTCH IS LESS THAN 4'.

▲ TRANSITION TURN LANE FROM 0'-0" AT STA. 56+20.00 TO 11'-0" AT STA. 57+42.50

● CONSTRUCT 9'-6" BUFFER FROM STA. 93+38.22 TO STA. 96+60.00

● CONSTRUCT 4'-0" BUFFER
FROM STA. 57+45.28 TO STA. 61+40.00
FROM STA. 66+60.00 TO STA. 70+80.00
FROM STA. 82+28.51 TO STA. 85+05.00
FROM STA. 97+80.00 TO STA. 103+85.00

● CONSTRUCT 7'-0" BUFFER
FROM STA. 74+25.00 TO STA. 79+02.00



TYPICAL SECTION ②

JACKSONVILLE-CATO RD.	STA. 78+30.36 TO STA. 79+02.00
JACKSONVILLE-CATO RD.	STA. 81+52.00 TO STA. 82+28.51
JACKSONVILLE-CATO RD.	STA. 89+93.88 TO STA. 90+75.00
JACKSONVILLE-CATO RD.	STA. 93+29.00 TO STA. 93+79.55

▲ CONSTRUCT 9'-6" BUFFER
FROM STA. 93+38.22 TO
STA. 96+60.00

▲ CONSTRUCT 7'-0" BUFFER
FROM STA. 74+25.00 TO STA. 79+02.00

NOTE: USE P.C.C. BASE WHEN DISTANCE BETWEEN GUTTER AND NOTCH IS LESS THAN 4'.

▼ INSIDE CURB MODIFIED TO DRAIN AWAY FROM MEDIAN

▲ CONSTRUCT 9'-6" BUFFER
FROM STA. 93+38.22 TO
STA. 96+60.00

◆ WIDTH VARIES AS SECTION APPROACHES ROUNDABOUT (SEE SPECIAL DETAILS)

● CROSS SLOPES VARY AS SECTION APPROACHES ROUNDABOUT TO MATCH CIRCULATORY ROADWAY VERTICAL PROFILE (SEE FORM GRADE DETAILS)

◧ TRANSITION MEDIAN
FROM 9'-0" TO VAR. WIDTH AS SECTION APPROACHES ROUNDABOUT. (SEE SPECIAL DETAILS)

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No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TYPICAL SECTIONS OF IMPROVEMENT

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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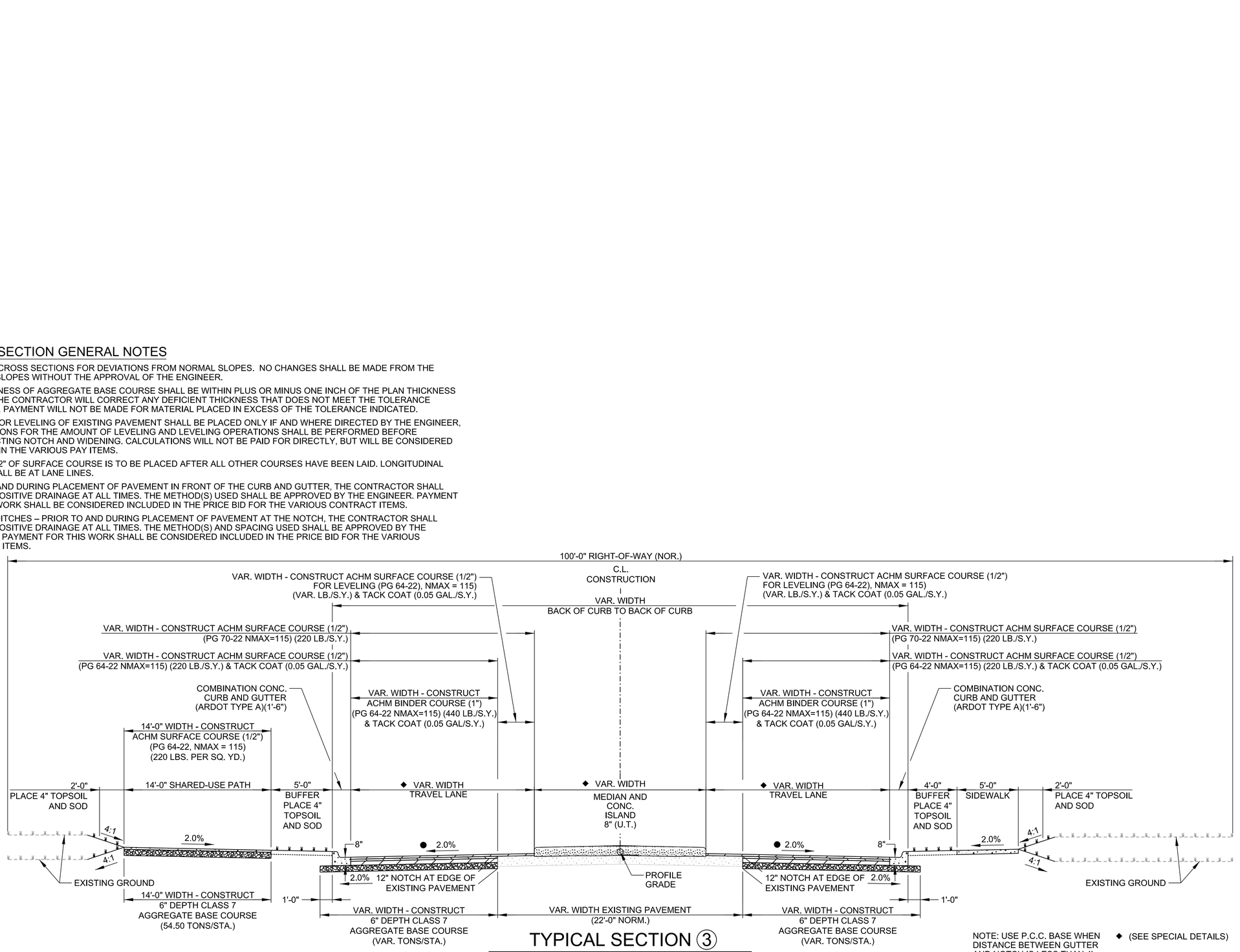
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TYPICAL SECTION GENERAL NOTES

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TYPICAL SECTION ③

JACKSONVILLE-CATO RD. STA. 79+02.00 TO STA. 79+42.32
JACKSONVILLE-CATO RD. STA. 81+12.32 TO STA. 81+52.00
JACKSONVILLE-CATO RD. STA. 90+75.00 TO STA. 91+19.09
JACKSONVILLE-CATO RD. STA. 92+89.10 TO STA. 93+29.00

NOTE: USE P.C.C. BASE WHEN DISTANCE BETWEEN GUTTER AND NOTCH IS LESS THAN 4'.

◆ (SEE SPECIAL DETAILS)

● CROSS SLOPES VARY AS SECTION APPROACHES ROUNDABOUT TO MATCH CIRCULATORY ROADWAY VERTICAL PROFILE (SEE FORM GRADE DETAILS)

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STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No.16145 — CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - DELETED TYP. SECT./UPDATED NUM.	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TYPICAL SECTIONS OF IMPROVEMENT

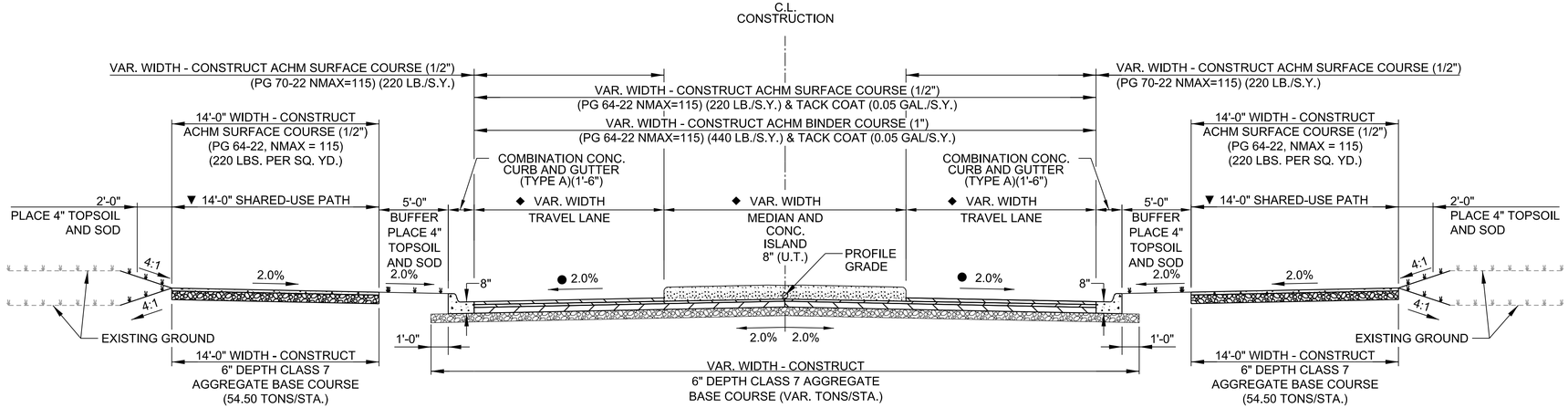
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER **C-102**

SHEET NUMBER **005**

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WORKSPACE:Garver_2012
\\garverinc.local\gdata\Projects\20181801719O - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C101-TS-C06.dgn



TYPICAL SECTION GENERAL NOTES

1. REFER TO CROSS SECTIONS FOR DEVIATIONS FROM NORMAL SLOPES. NO CHANGES SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.
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TYPICAL SECTION ④

SUBDIVISION SIDE RD. 1	STA. 11+15.32 TO STA. 11+80.57
SUBDIVISION SIDE RD. 2	STA. 21+16.09 TO STA. 21+85.35

◆ SEE SPECIAL DETAILS

● CROSS SLOPES VARY AS SECTION APPROACHES ROUNDABOUT TO MATCH CIRCULATORY ROADWAY VERTICAL PROFILE (SEE FORM GRADE DETAILS)

▼ STA. 11+60.00 END SHARED-USE PATH

▼ STA. 21+60.00 END SHARED-USE PATH

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GARVER LLC
No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	03/16/22	ADDED SUBDIVISION SIDEROAD 3 STATIONING	CMC
2	6/8/2023	REISSUED SHEET- UPDATED TYPICAL SECTION NUMBERING	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TYPICAL SECTIONS OF IMPROVEMENT

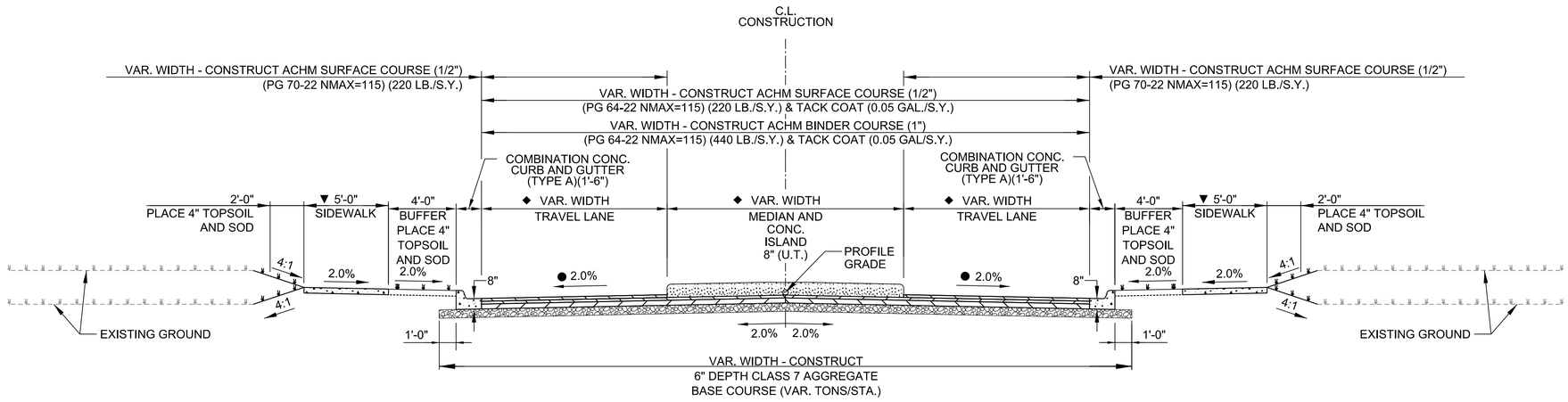
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-103

SHEET NUMBER **006**

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\\garverinc.local\gdata\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C101-TS-CO6.dgn
WORKSPACE:Garver_2012



TYPICAL SECTION GENERAL NOTES

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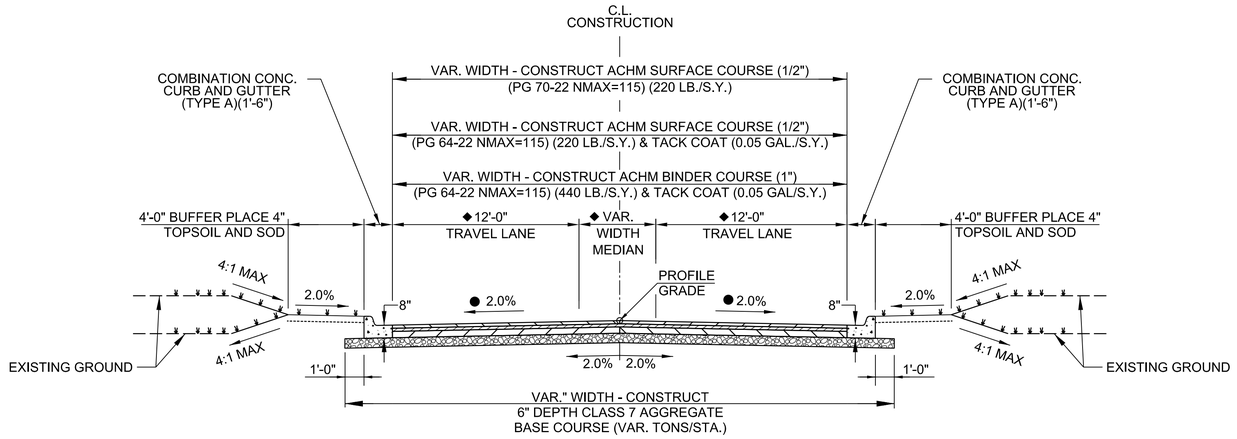
TYPICAL SECTION ⑤

PUBLIC WORKS RD.	STA. 41+00.48 TO STA. 41+52.27
SUBDIVISION SIDE RD. 3	STA. 31+69.44 TO STA. 32+34.68

◆ WIDTH VARIES AS SECTION APPROACHES ROUNDABOUT (SEE SPECIAL DETAILS)

● CROSS SLOPES VARY AS SECTION APPROACHES ROUNDABOUT TO MATCH CIRCULATORY ROADWAY VERTICAL PROFILE (SEE FORM GRADE DETAILS)

▼ STA. 41+20.00 BEGIN SIDEWALK



TYPICAL SECTION ⑥

SUBDIVISION SIDE RD. 1	STA. 11+80.57 TO STA. 12+50.00
SUBDIVISION SIDE RD. 2	STA. 21+85.35 TO STA. 22+50.00
PUBLIC WORKS RD.	STA. 40+15.00 TO STA. 41+00.48
SUBDIVISION SIDE RD. 3	STA. 30+00.00 TO STA. 31+69.44

◆ WIDTH VARIES AS SECTION APPROACHES ROUNDABOUT (SEE SPECIAL DETAILS)

● CROSS SLOPES VARY AS SECTION APPROACHES ROUNDABOUT TO MATCH CIRCULATORY ROADWAY VERTICAL PROFILE (SEE FORM GRADE DETAILS)

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1	03/16/22	ADDED SUBDIVISION SIDEROAD 3 STATIONING	CMC
2	6/8/2023	REISSUED SHEET- UPDATED TYPICAL SECTION NUMBERING	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TYPICAL SECTIONS OF IMPROVEMENT

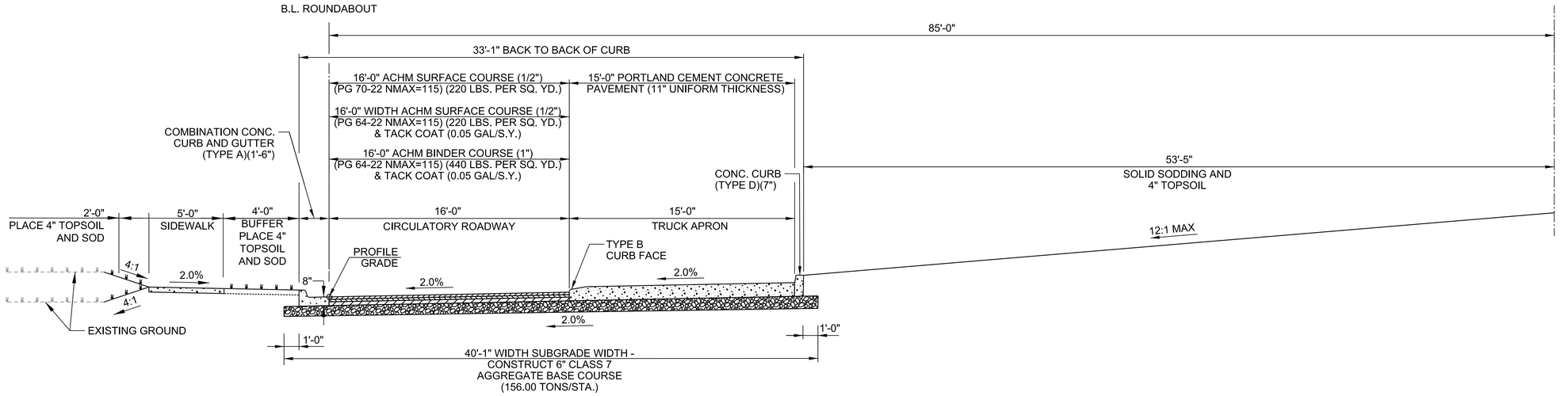
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-104

SHEET NUMBER **007**

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WORKSPACE:Garver 2012

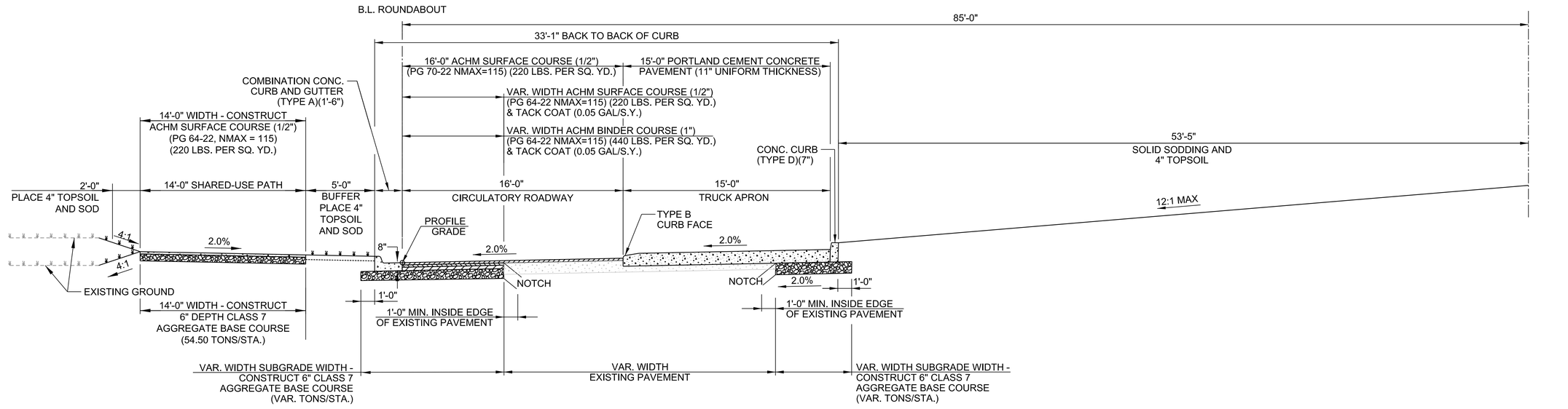


TYPICAL SECTION ⑦

ROUNDABOUT 1 STA. 10+00.00 TO STA. 12+50.00
ROUNDABOUT 2 STA. 30+00.00 TO STA. 32+50.00

TYPICAL SECTION GENERAL NOTES

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TYPICAL SECTION ⑧

ROUNDABOUT 1 STA. 12+50.00 TO STA. 15+34.07
ROUNDABOUT 2 STA. 32+50.00 TO STA. 35+34.07

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CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET- UPDATED TYPICAL SECTION NUMBERING	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TYPICAL SECTIONS OF IMPROVEMENT

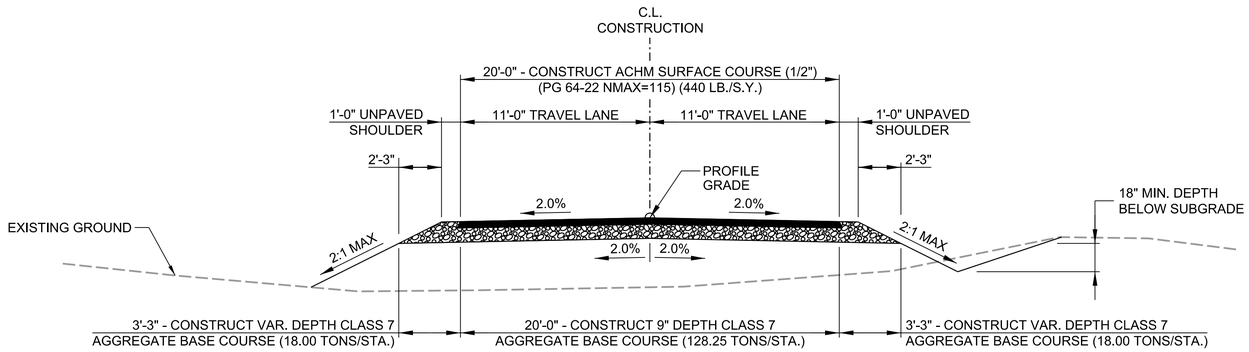
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-105

SHEET NUMBER **008**

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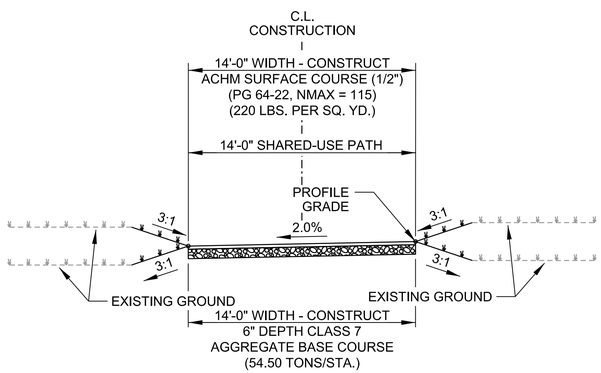


TYPICAL SECTION ⑨

DETOUR RD. STA. 11+41.23 TO STA. 18+83.31

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TYPICAL SECTION ⑩

UNDERPASS ACCESS STA. 100+00.00 TO STA. 103+58.76
UNDERPASS ACCESS STA. 104+46.76 TO STA. 107+87.81

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CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	06/17/22	ADJUSTED DETOUR RD. STATIONING	
2	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TYPICAL SECTIONS OF IMPROVEMENT

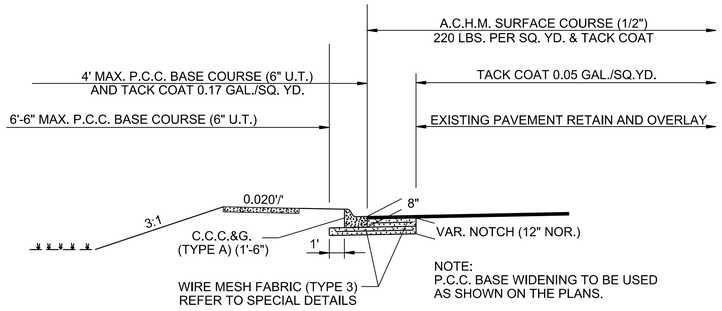
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DRAWN BY: AMW

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DRAWING NUMBER
C-106

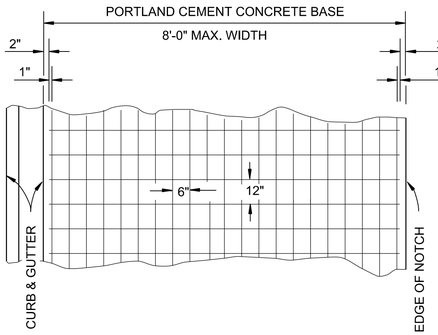
SHEET NUMBER **009**

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WORKSPACE:Garver_2012
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1 C-201 P.C.C. BASE WIDENING DETAIL

NO SCALE



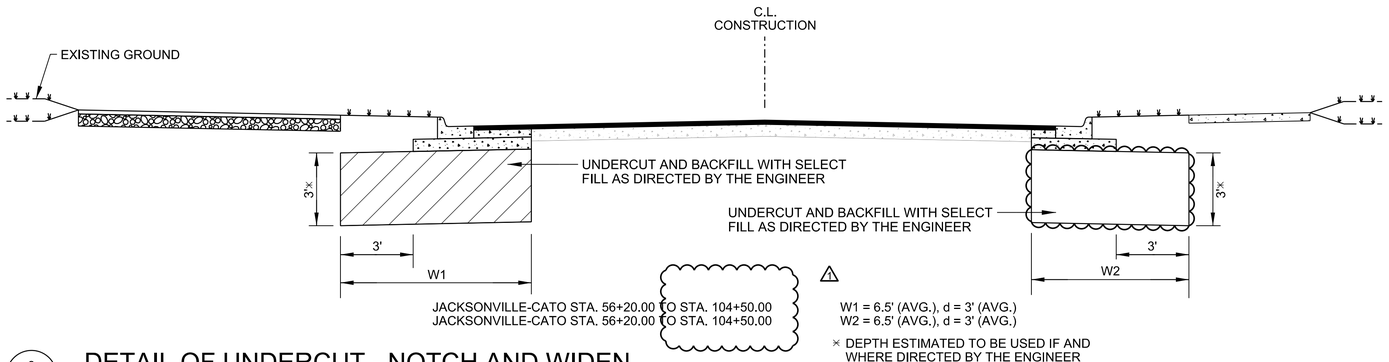
NOTES:

1. LAP MESH FABRIC MIN. 12" LONGITUDINALLY AND MIN. 6" TRANSVERSELY.
2. MESH FABRIC IS NOT REQUIRED WHEN WIDTH OF PORTLAND CEMENT CONCRETE BASE IS LESS THAN 12".
3. MESH FABRIC (TYPE 3) WILL NOT BE PAID FOR DIRECTLY, BUT FULL COMPENSATION THEREFORE WILL BE CONSIDERED INCLUDED IN THE CONTRACT PRICE BID PER SQ. YD. FOR PORTLAND CEMENT CONCRETE BASE (6" U.T.)

6" X 12" MESH FABRIC (TYPE 3) (W5.5 X W2.9) = 4.26 LBS./SQ.YD.

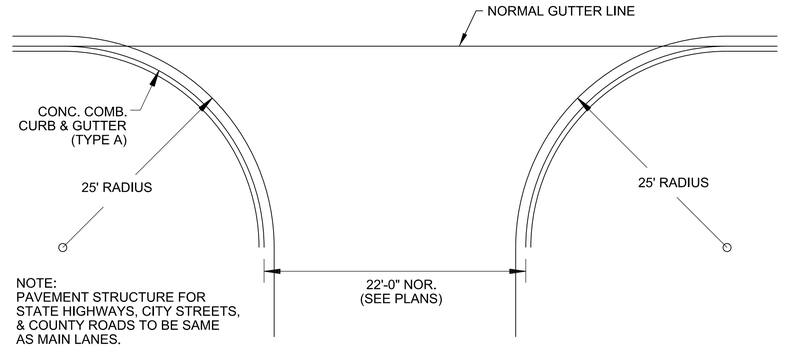
2 C-201 DETAIL OF REINFORCING STEEL FOR PAVEMENT

NO SCALE



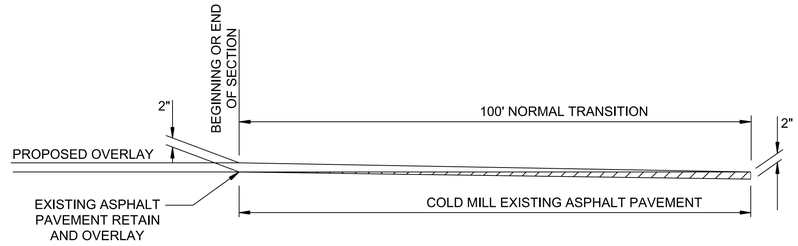
3 C-201 DETAIL OF UNDERCUT - NOTCH AND WIDEN

NO SCALE



4 C-201 SIDE ROAD TURNOUT DETAIL

NO SCALE



5 C-201 DETAIL FOR VERTICAL TRANSITIONS

NO SCALE

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CITY OF SHERWOOD
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JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

SPECIAL DETAILS

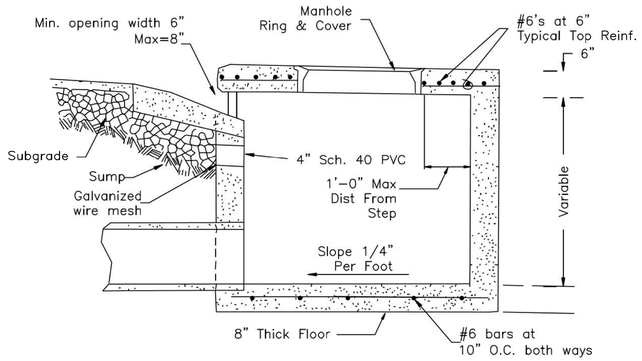
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DRAWING NUMBER
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SHEET NUMBER 010

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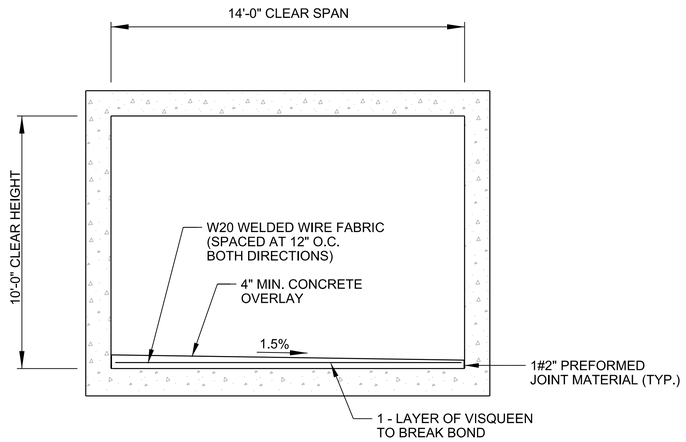


NOTE: Steps required in all inlets exceeding 3'-0" in depth. Reinforcement not required in circular inlet walls unless specified on plans.

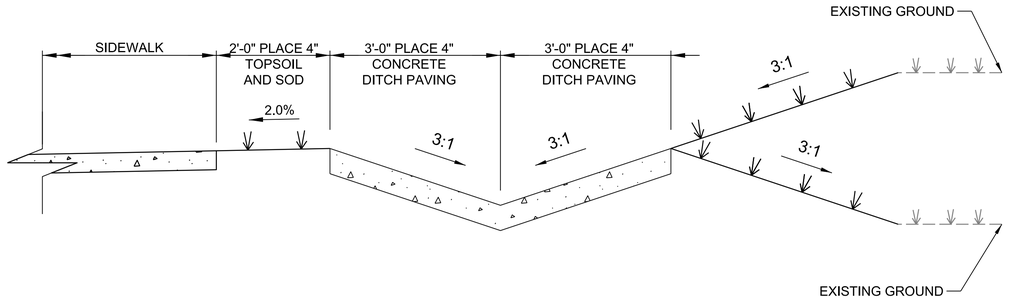
Depression See Detail STD-11

DIA. OF STRUCTURE	WALL THICKNESS	DIA. OF OUTLET PIPE
4' I.D.	6"	15" Thru 27"
5' I.D.	8"	30" Thru 42"
6' I.D.	8"	48" Thru 54"
8' I.D.	10"	60" Thru 72"

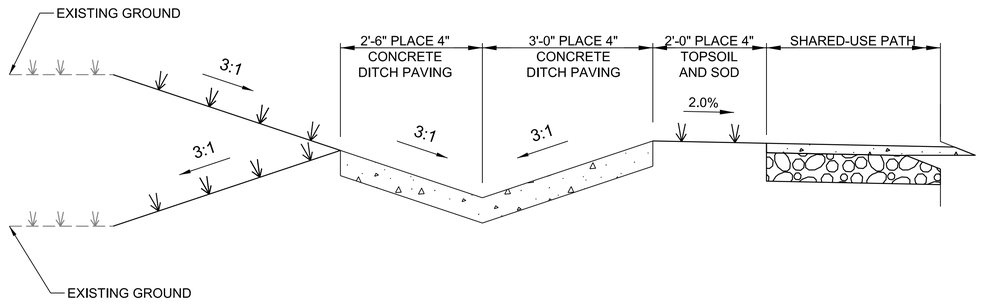
1 C-202 DROP INLET (TYPE 1)
NO SCALE



2 C-202 SHARED-USE PATH SECTION (TUNNEL)
NO SCALE



3 C-202 SPECIAL DITCH (RIGHT SIDE OF ROADWAY)
NO SCALE



4 C-202 SPECIAL DITCH (LEFT SIDE OF ROADWAY)
NO SCALE

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CERTIFICATE OF AUTHORIZATION
GARVER LLC No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN
Digitally Signed 10/12/2021

REV.	DATE	DESCRIPTION	BY

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

SPECIAL DETAILS

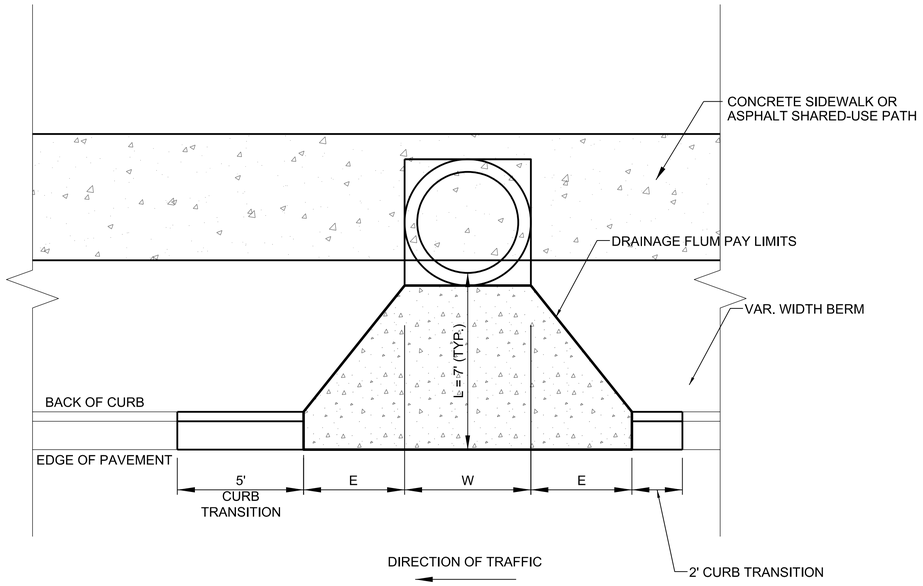
JOB NO.: 18017190
DATE: OCT. 2021
DESIGNED BY: CMC
DRAWN BY: AMW

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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-202

SHEET NUMBER 011

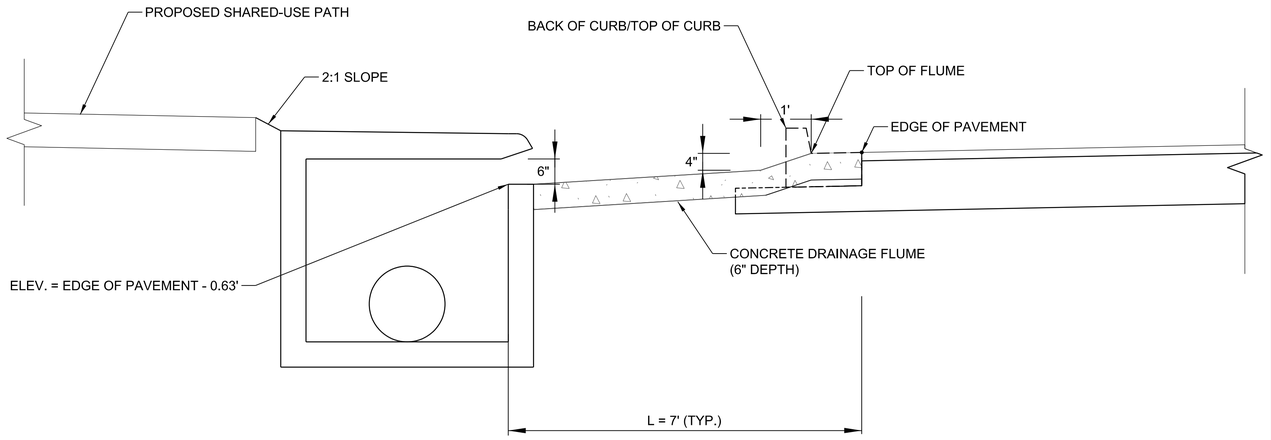
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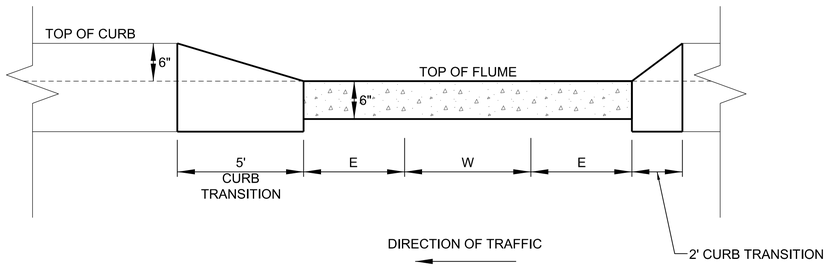
PLAN

W = INLET WIDTH (OUTER WALL TO OUTER WALL)
E = EXTENSION LENGTH (IF APPLICABLE)

NOTE: CURB TRANSITIONS TO BE PAID
AS CONCRETE CURB AND GUTTER

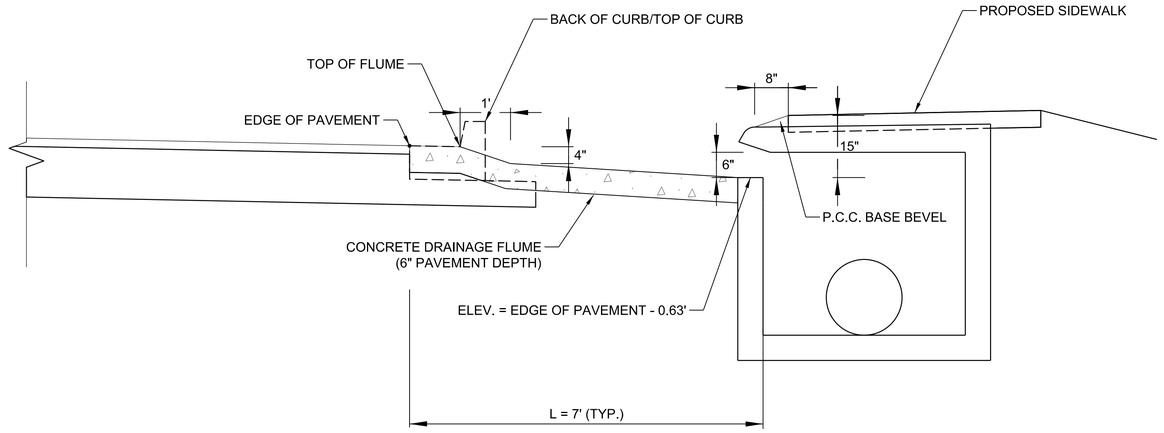


SECTION - (LEFT SIDE)



W = INLET WIDTH (OUTER WALL TO OUTER WALL)
E = EXTENSION LENGTH (IF APPLICABLE)

ELEVATION



SECTION - (RIGHT SIDE)

1 / C-202B

CONCRETE DRAINAGE FLUME

NO SCALE

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	6/8/2023	ADDED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

SPECIAL DETAILS

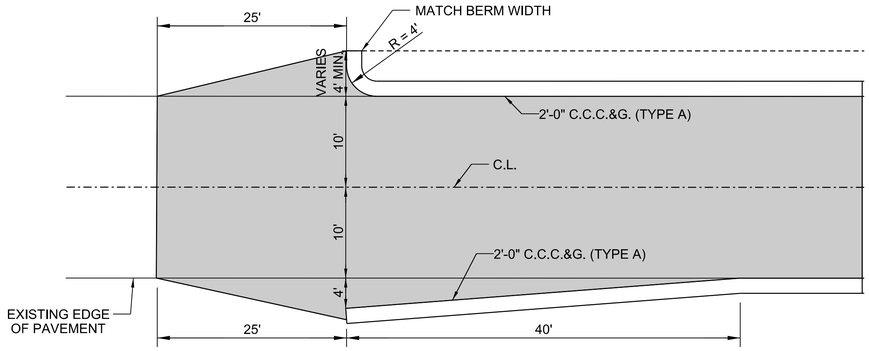
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

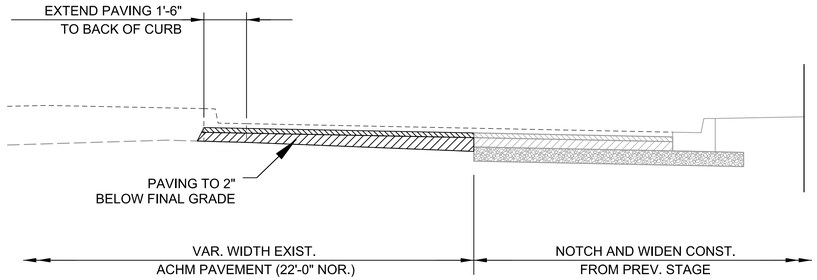
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SHEET NUMBER

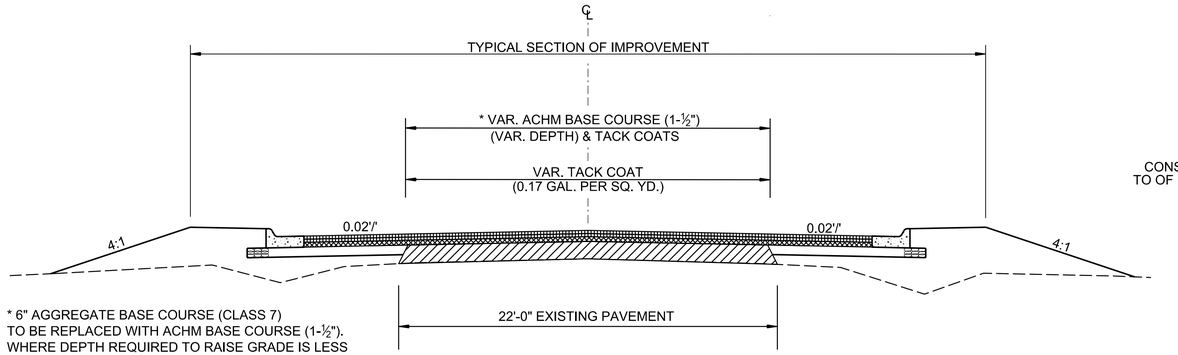
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\\garverinc.local\gdata\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C202B-SD-CO6.dgn



1 C-205 **CURB TRANSITION DETAIL**
NO SCALE



3 C-203 **ACHM PAVING UNDER TRAFFIC DETAIL**
NO SCALE

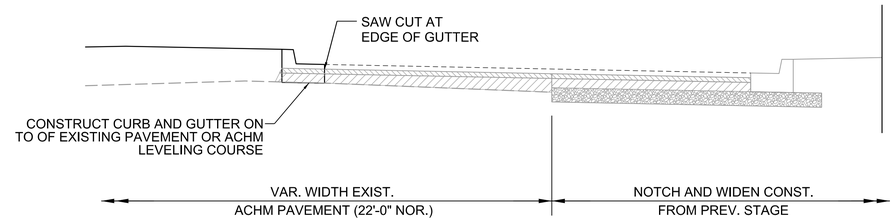


* 6" AGGREGATE BASE COURSE (CLASS 7) TO BE REPLACED WITH ACHM BASE COURSE (1-½"). WHERE DEPTH REQUIRED TO RAISE GRADE IS LESS THAN 4" REPLACE AGGREGATE BASE COURSE WITH ACHM LEVELING COURSE (½").

NOTES:

1. THIS DETAIL TO BE USED ONLY WHERE DIRECTED BY THE ENGINEER.
2. ACHM BASE COURSE (1-½") AND ACHM LEVELING COURSE (½") WILL BE PAID FOR IN THE CONTRACT PRICE BID PER TON FOR ACHM LEVELING COURSE.

2 C-205 **METHOD OF RAISING GRADE**
NO SCALE



3 C-203 **MEDIAN CURB AND GUTTER FOR ACHM PAVING UNDER TRAFFIC DETAIL**
NO SCALE

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STATE OF ARKANSAS
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No.16145
CHARLES M. CULLEN

Digitally Signed 10/12/2021

REV.	DATE	DESCRIPTION	BY

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

SPECIAL DETAILS

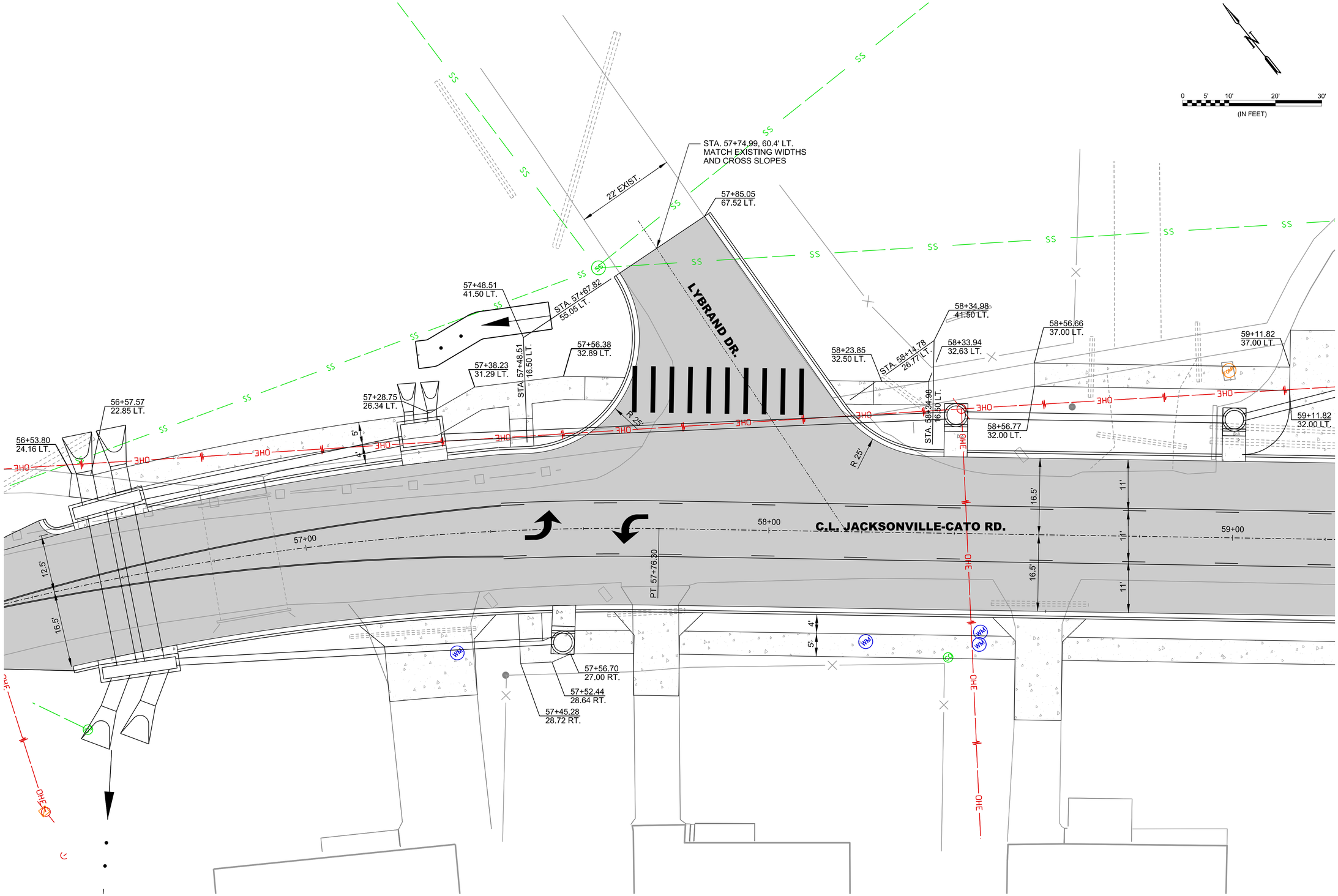
JOB NO.: 18017190
DATE: OCT. 2021
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-203

SHEET NUMBER **012**

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WORKSPACE:Garver_2012
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1
C-204

LYBRAND DR. INTERSECTION

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STATE OF ARKANSAS
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No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	9/29/2022	REMOVED SHARED-USE PATH FROM STA. 58+24 TO STA. 59+14	CMC
2	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

INTERSECTION DETAILS

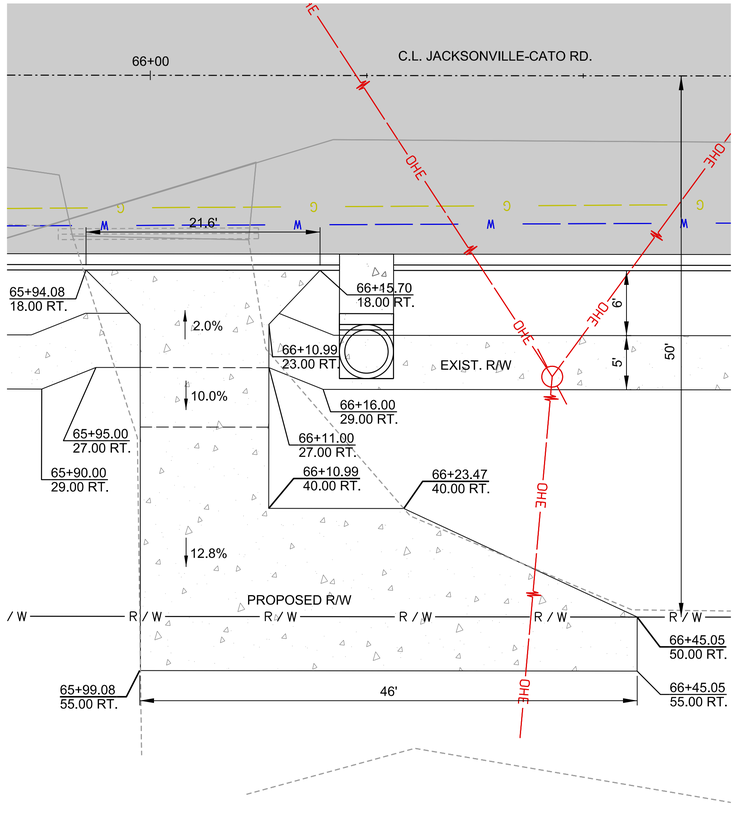
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-204

SHEET NUMBER 013

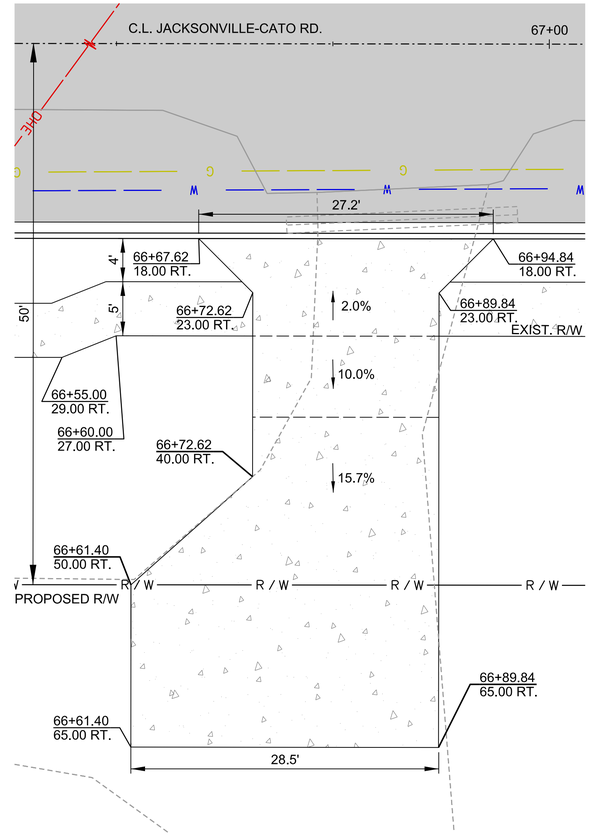
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1 C-205

STA. 66+05 RT.

NO SCALE



2 C-205

STA. 66+76 RT.

NO SCALE

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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

SPECIAL DRIVEWAY LAYOUTS

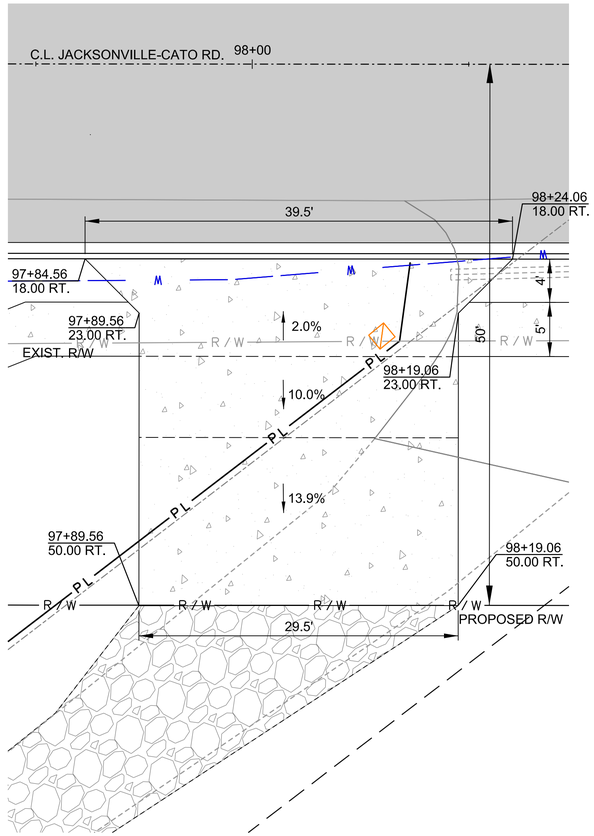
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-205

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1
C-205

STA. 98+05 RT.

NO SCALE

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ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	6/8/2023	ISSUED SHEET - DW DETAIL AT 98+05 RT.	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

SPECIAL DRIVEWAY LAYOUTS

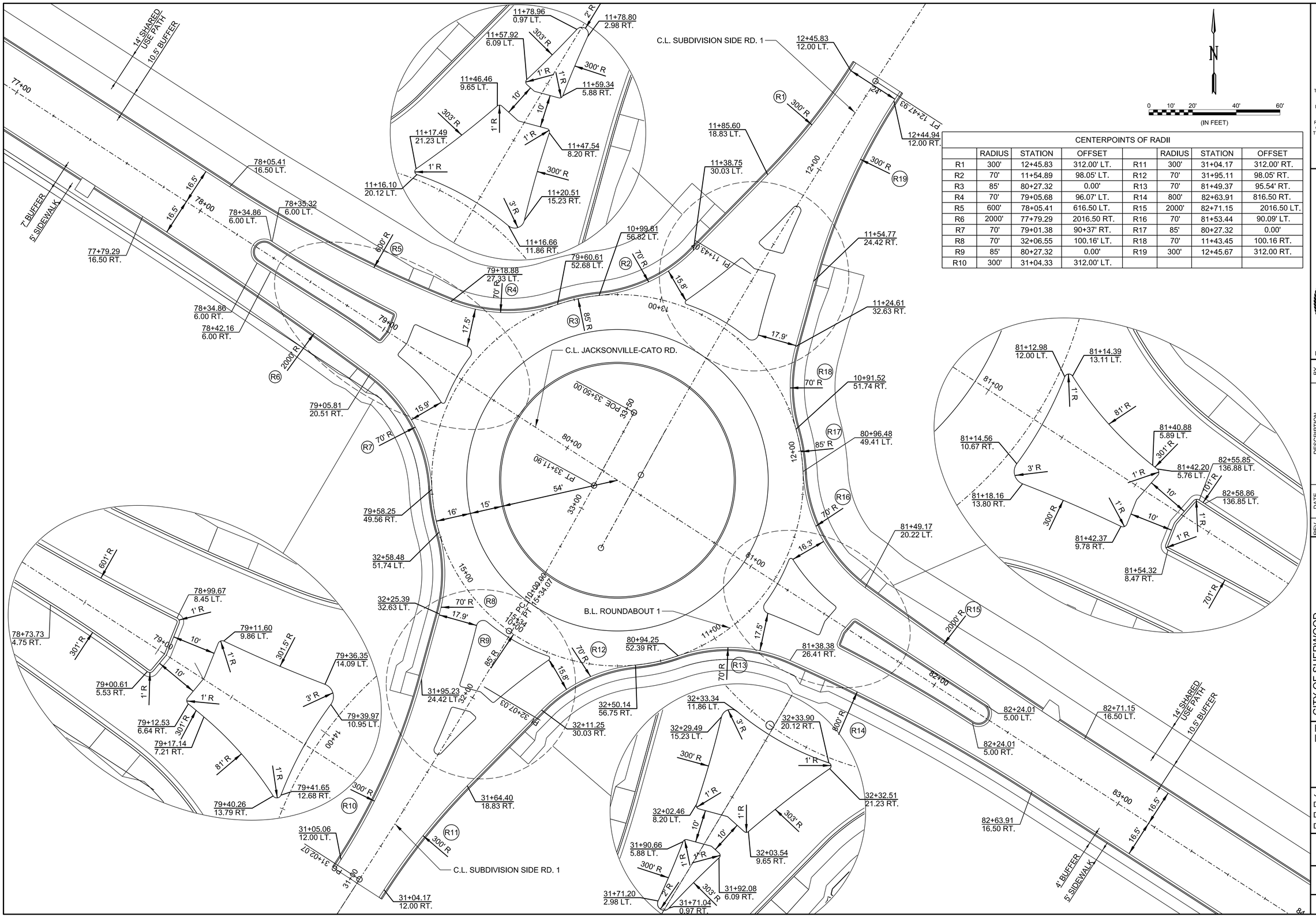
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DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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0 1"
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DRAWING NUMBER
C-205B

SHEET NUMBER

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CENTERPOINTS OF RADII							
	RADIUS	STATION	OFFSET		RADIUS	STATION	OFFSET
R1	300'	12+45.83	312.00' LT.	R11	300'	31+04.17	312.00' RT.
R2	70'	11+54.89	98.05' LT.	R12	70'	31+95.11	98.05' RT.
R3	85'	80+27.32	0.00'	R13	70'	81+49.37	95.54' RT.
R4	70'	79+05.68	96.07' LT.	R14	800'	82+63.91	816.50 RT.
R5	600'	78+05.41	616.50 LT.	R15	2000'	82+71.15	2016.50 LT.
R6	2000'	77+79.29	2016.50 RT.	R16	70'	81+53.44	90.09' LT.
R7	70'	79+01.38	90+37' RT.	R17	85'	80+27.32	0.00'
R8	70'	32+06.55	100.16' LT.	R18	70'	11+43.45	100.16 RT.
R9	85'	80+27.32	0.00'	R19	300'	12+45.67	312.00 RT.
R10	300'	31+04.33	312.00' LT.				

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ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

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REV.	DATE	DESCRIPTION	BY
1	9/29/22	ADDED SOUTHERN LEG TO WESTERN ROUNDABOUT	CMC
2	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

ROUNDABOUT 1
LAYOUT (STA. 80+27)

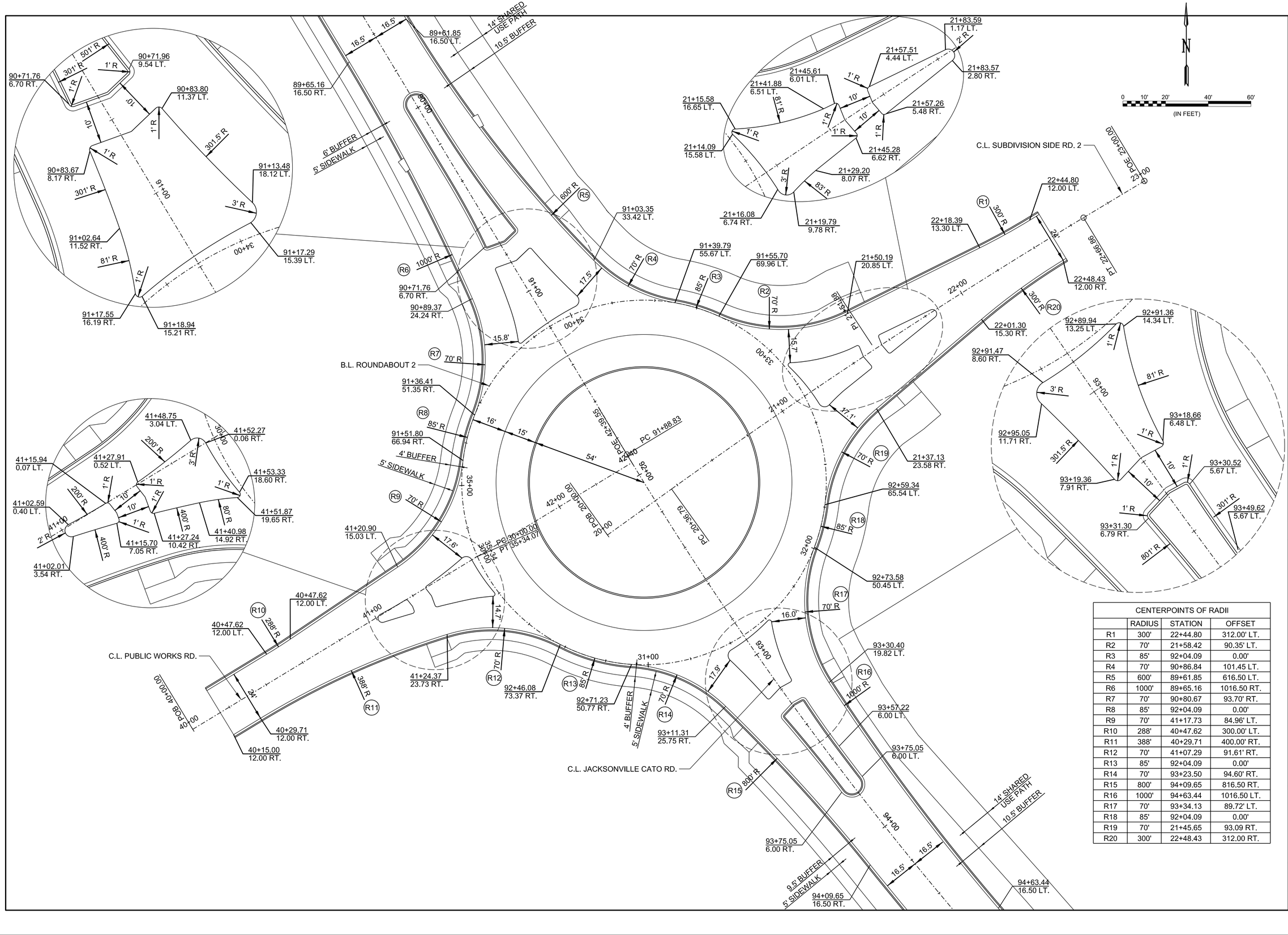
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-206

SHEET NUMBER 015

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CENTERPOINTS OF RADII			
	RADIUS	STATION	OFFSET
R1	300'	22+44.80	312.00' LT.
R2	70'	21+58.42	90.35' LT.
R3	85'	92+04.09	0.00'
R4	70'	90+86.84	101.45 LT.
R5	600'	89+61.85	616.50 LT.
R6	1000'	89+65.16	1016.50 RT.
R7	70'	90+80.67	93.70' RT.
R8	85'	92+04.09	0.00'
R9	70'	41+17.73	84.96' LT.
R10	288'	40+47.62	300.00' LT.
R11	388'	40+29.71	400.00' RT.
R12	70'	41+07.29	91.61' RT.
R13	85'	92+04.09	0.00'
R14	70'	93+23.50	94.60' RT.
R15	800'	94+09.65	816.50 RT.
R16	1000'	94+63.44	1016.50 LT.
R17	70'	93+34.13	89.72' LT.
R18	85'	92+04.09	0.00'
R19	70'	21+45.65	93.09 RT.
R20	300'	22+48.43	312.00 RT.

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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

ROUNDABOUT 2
LAYOUT (STA. 92+05)

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: TBP

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-207

SHEET NUMBER 016

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\\garverinc.local\data\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C207-SD-CO6.dgn

SUBDIVISION SIDE RD. 1 LEFT OF C.L.
TRANSITION CROSS SLOPE FROM
-1.33% AT 11+15.32 TO
-2.00% AT STA. 11+30.32 TO

SUBDIVISION SIDE RD. 1 RIGHT OF C.L.
TRANSITION CROSS SLOPE FROM
-0.17% AT 11+15.32 TO
-2.00% AT STA. 11+60.32 TO

JACKSONVILLE-CATO RD. LEFT OF C.L.
TRANSITION CROSS SLOPE FROM
-2.00% AT 78+37.31 TO
2.78% AT STA. 79+42.31

JACKSONVILLE-CATO RD. RIGHT OF C.L.
TRANSITION CROSS SLOPE FROM
-2.00% AT 79+12.31 TO
-2.78% AT STA. 79+42.31

JACKSONVILLE-CATO RD. LEFT OF C.L.
TRANSITION CROSS SLOPE FROM
2.49% AT 81+12.31 TO
-2.00% AT STA. 82+17.31

JACKSONVILLE-CATO RD. RIGHT OF C.L.
TRANSITION CROSS SLOPE FROM
-2.78% AT 81+12.31 TO
-2.00% AT STA. 81+42.31

SUBDIVISION SIDE RD. 2 LEFT OF C.L.
TRANSITION CROSS SLOPE FROM
-2.00% AT 32+19.68 TO
-2.47% AT STA. 32+34.68 TO

SUBDIVISION SIDE RD. 2 RIGHT OF C.L.
TRANSITION CROSS SLOPE FROM
-2.00% AT 31+89.68 TO
-0.36% AT STA. 32+34.68

N

0 7.5' 15' 30' 45'

(IN FEET)

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	9/29/22	ADDED SOUTHERN LEG TO WESTERN ROUNDABOUT	CMC
2	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

ROUNDABOUT FORM GRADE DETAILS (STA. 80+27)

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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DRAWING NUMBER
C-208

SHEET NUMBER 017

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\\garverinc.local\gdata\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C208-SD-CO6.dgn

SUBDIVISION SIDE RD. 2 LEFT OF C.L.
TRANSITION CROSS SLOPE FROM
-0.30% AT STA. 21+12.41
-2.00% AT STA. 21+57.41 TO

JACKSONVILLE-CATO RD. LEFT OF C.L.
TRANSITION CROSS SLOPE FROM
-2.00% AT 90+29.09 TO
1.87% AT STA. 91+19.09

JACKSONVILLE-CATO RD. RIGHT OF C.L.
TRANSITION CROSS SLOPE FROM
-2.00% AT 91+04.09
-1.87% AT STA. 91+19.09

JACKSONVILLE-CATO RD. LEFT OF C.L.
TRANSITION CROSS SLOPE FROM
3.70% AT 92+89.09 TO
-2.00% AT STA. 94+24.09

JACKSONVILLE-CATO RD. RIGHT OF C.L.
TRANSITION CROSS SLOPE FROM
-2.22% AT 92+89.10 TO
-2.00% AT STA. 93+04.10

PUBLIC WORKS RD. LEFT OF C.L.
TRANSITION CROSS SLOPE FROM
-2.00% AT STA. 40+65.28 TO
1.87% AT STA. 41+55.28 TO

PUBLIC WORKS RD. RIGHT OF C.L.
TRANSITION CROSS SLOPE FROM
-2.00% AT 40+41.28
-1.87% AT STA. 41+55.28 TO

N

0 7.5' 15' 30' 45'
(IN FEET)

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CERTIFICATE OF AUTHORIZATION
GARVER LLC
No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

ROUNDABOUT FORM GRADE DETAILS (STA. 92+04)

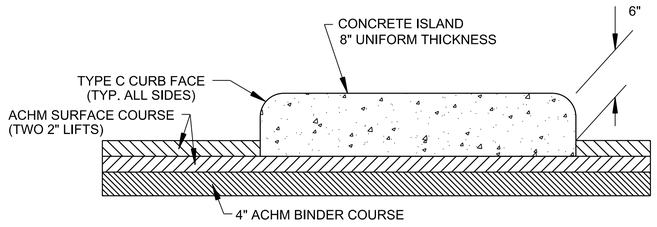
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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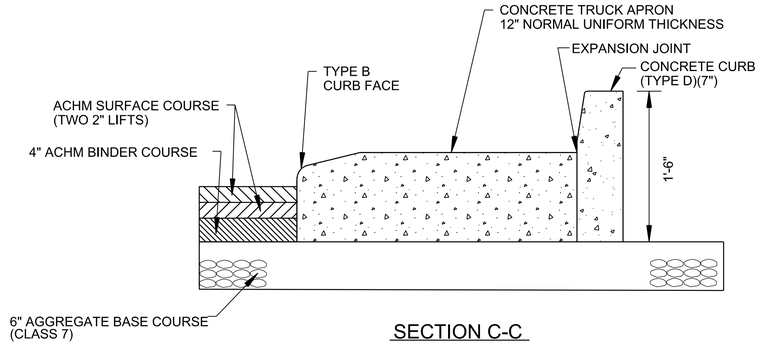
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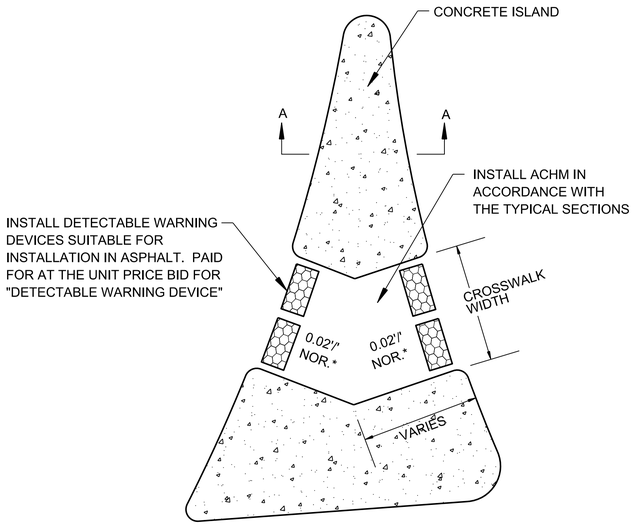
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SECTION A-A



SECTION C-C



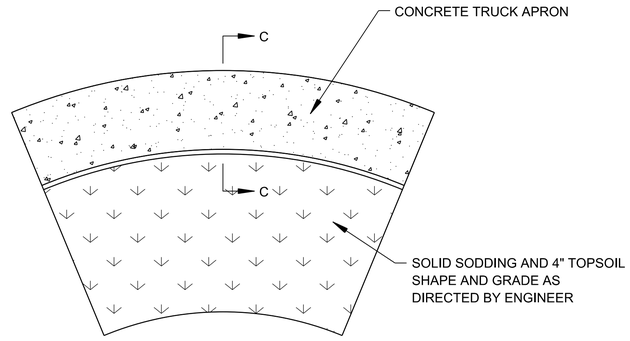
* MATCH ROADWAY CROSS SLOPE

NOTE: SEE ARDOT STANDARD DRAWING WR-1
FOR DETECTABLE WARNING DEVICE
REQUIREMENTS

1 / C-210 PEDESTRIAN CROSSING AT SPLITTER ISLAND

NO SCALE

GENERAL NOTES:
1. SEE PLAN SHEETS FOR RADII AND DIMENSIONS.



2 / C-210 TRUCK APRON DETAIL

NO SCALE

GARVER

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 10/12/2021

REV.	DATE	DESCRIPTION	BY

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

SPECIAL DETAILS

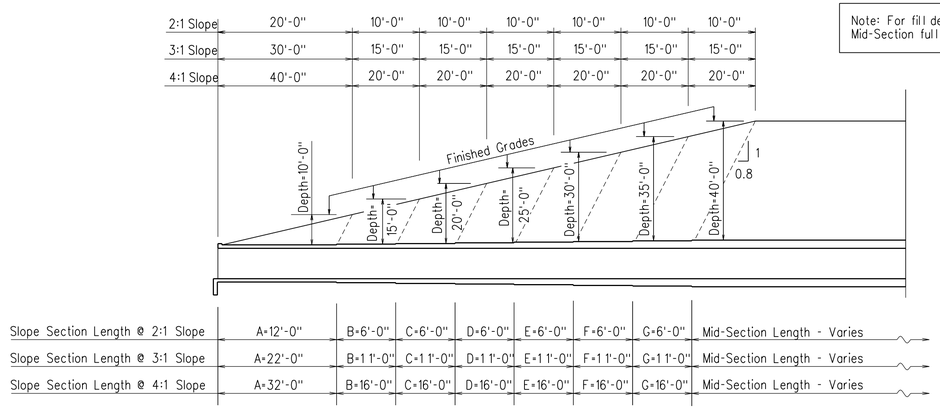
JOB NO.: 18017190
DATE: OCT. 2021
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-210

SHEET NUMBER 019

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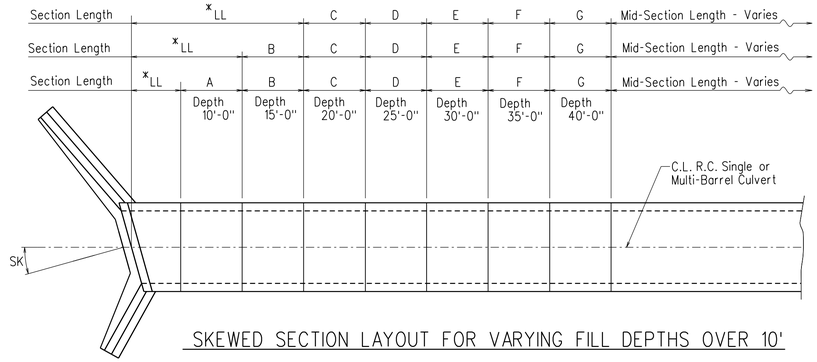


Note: For fill depths 10' and under, use Mid-Section full length of box culvert.

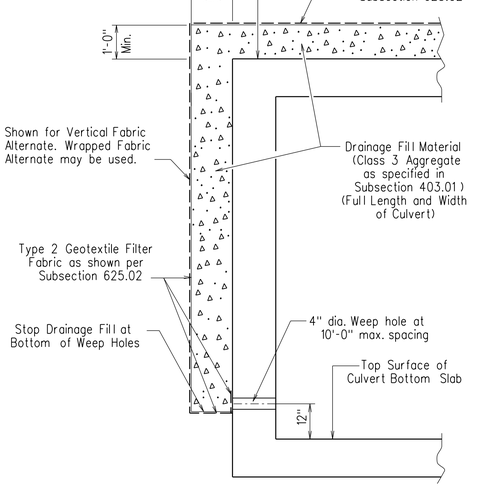
LONGITUDINAL SECTION LENGTH SCHEDULE FOR VARYING FILL DEPTHS OVER 10'

Lengths for Non-Skewed Boxes

x LL = Skewed End Section Length - See "Skewed End Section Details" Length LL varies with skew angle, overall box width and fill depth and may eliminate the need for some slope section lengths as shown.

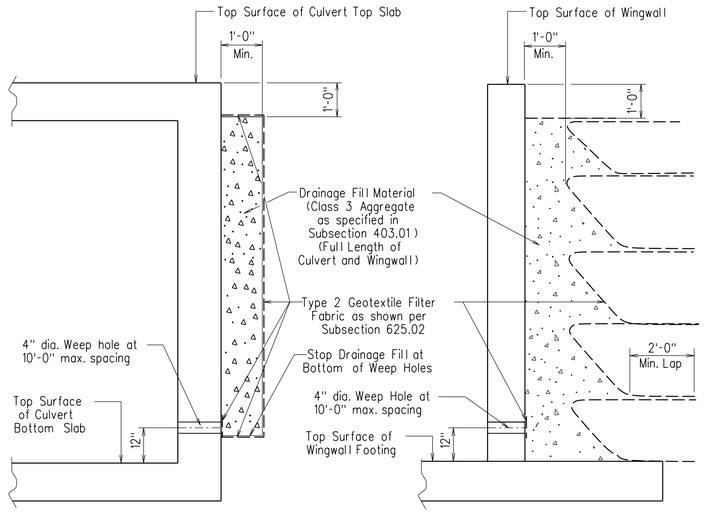


SKEWED SECTION LAYOUT FOR VARYING FILL DEPTHS OVER 10'



CULVERT DRAINAGE DETAIL FOR ROCK FILL

This detail shall be used when rock fill is specified for embankment construction.



VERTICAL FABRIC ALTERNATE
(Shown for Culvert, Similar for Wingwall)

WRAPPED FABRIC ALTERNATE
(Shown for Wingwall, Similar for Culvert)

For Details of Excavation and Pay Limits, see Standard Drawing RCB-2.

WINGWALL & CULVERT DRAINAGE DETAIL

GENERAL NOTES:

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction (2014 edition) with applicable Supplemental Specifications and Special Provisions. Section and Subsection refer to the Standard Construction Specifications unless otherwise noted in the Plans.

DESIGN SPECIFICATIONS: AASHTO LRFD Bridge Design Specifications, Fifth Edition (2010) with 2010 interim revisions.

LIVE LOADING: HL-93

All concrete shall be Class S with a minimum 28-day compressive strength of 3,500 psi and shall be poured in the dry. All exposed corners to have ¾" chamfers.

Reinforcing Steel shall be Grade 60 (yield strength = 60,000 psi) conforming to AASHTO M31 or M322, Type A, with mill test reports.

Reinforcing Steel Tolerances: The tolerances for reinforcing steel shall meet those listed in 'Manual of Standard Practice' published by Concrete Reinforcing Steel Institute (CRSI) except that the tolerance for truss bars such as Figure 3 on page 7-4 of the CRSI Manual shall be minus zero to plus 1/2 inch.

Excavation and backfilling shall be in accordance with the requirements of Section 801.

Membrane Waterproofing shall conform to the requirements of Section 815. Membrane Waterproofing shall be Type C and as directed by the Engineer applied to all construction joints in the top slab and the sidewalls of R.C. Box culverts and to the construction joint between wingwalls and R.C. Box culvert walls.

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.

Weep Holes in wingwalls shall have a maximum horizontal spacing of 10'-0" and shall be spaced to clear all reinforcing steel. There shall be a minimum of two (2) weep holes in each wingwall. The drain opening shall be 4" diameter and shall be placed 12" above the top of the wingwall footing.

The barrel components of the culvert may be constructed using continuous pours. For longer culvert construction, the Contractor may use multiple pours with transverse construction joints spaced a minimum of 50 feet apart unless superseded by stage construction or site constraints as approved by the Engineer. Construction joints between footings and walls shall be made only where shown in the Plans. Joints shall be normal to the centerline of barrel and shall be keyed. Longitudinal reinforcing shall be continuous through joints unless shown otherwise. All longitudinal construction joints shall be submitted to the Engineer for approval.

Membrane Waterproofing, Weep Holes, Geotextile Filter Fabric, and Drainage Fill Material will not be paid for directly but shall be considered subsidiary to Class S Concrete.

When the top slab of the box culvert serves as finished roadway surface, curing and finishing shall be in accordance with subsections 802.17 and 802.20 for bridge roadway surface and a tine finish shall be applied in accordance with subsection 802.19 for Class 5 Tined Bridge Roadway Surface Finish. Curing and finishing shall not be paid for directly, but shall be considered incidental to the item "Class S Concrete-Roadway". Class 1 Protective Surface Treatment shall be applied to the roadway surface and this work shall be paid for under the unit price bid for "Class 1 Protective Surface Treatment".

When precast reinforced concrete box culverts are substituted for cast in place box culverts, they shall be manufactured according to ASTM C 1577 and meet the requirements of Section 607. When the top slab of the box culvert serves as the finished roadway surface, a precast reinforced concrete box culvert substitution is not allowed.

SHEET 1 OF 4

GENERAL DETAILS OF R.C. BOX CULVERT

GENERAL NOTES &
LONGITUDINAL SECTION LENGTH SCHEDULE

SPECIAL DETAILS

GARVER

CERTIFICATE OF AUTHORIZATION
GARVER LLC No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 16145
CHARLES M. CULLEN
Digitally Signed 10/12/2021

REV.	DATE	DESCRIPTION

CITY OF BRYANT
SALINE COUNTY, ARKANSAS

BRYANT PARKWAY
SHOBE RD. TO I-30

SPECIAL DETAILS

JOB NO.: 16017140
DATE: APRIL 2018
DESIGNED BY: CMC
DRAWN BY: CMC

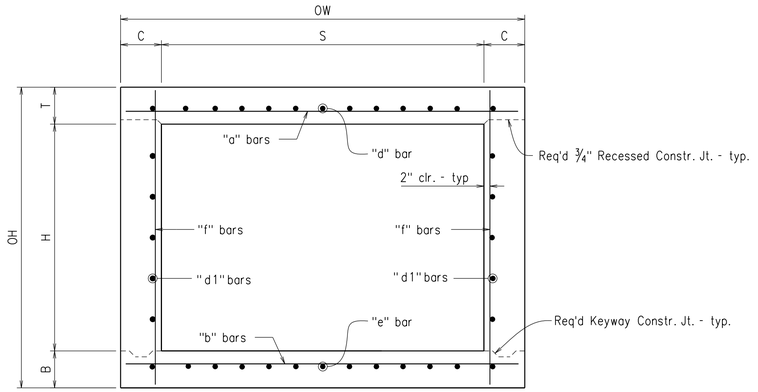
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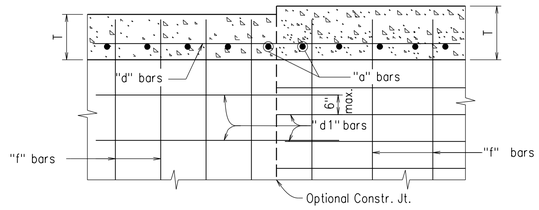
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Note: When top slab of culvert serves as finished roadway surface, see General Notes on Sheet 1 of 4.



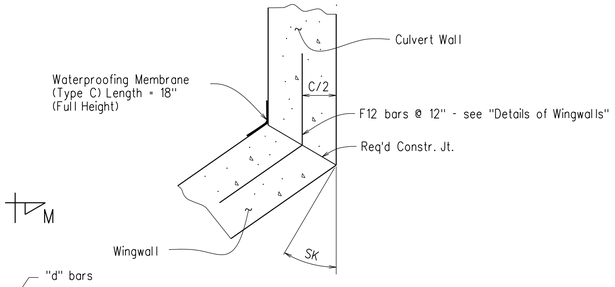
TYPICAL SECTION M-M



Longitudinal Bar Spacing at individual sections shall be maintained, which may result in noncontact bar laps.

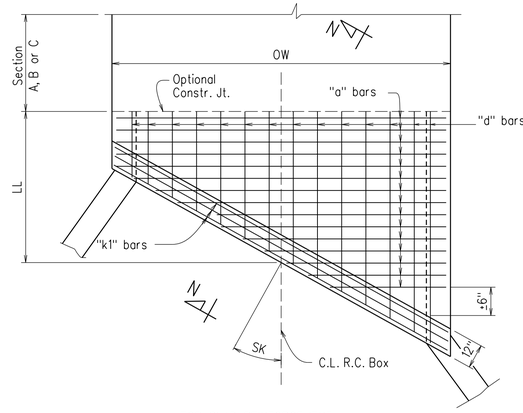
LONGITUDINAL LAP DETAIL AT CHANGE IN SECTIONS

TOP SLAB SHOWN, BOTTOM SLAB SIMILAR

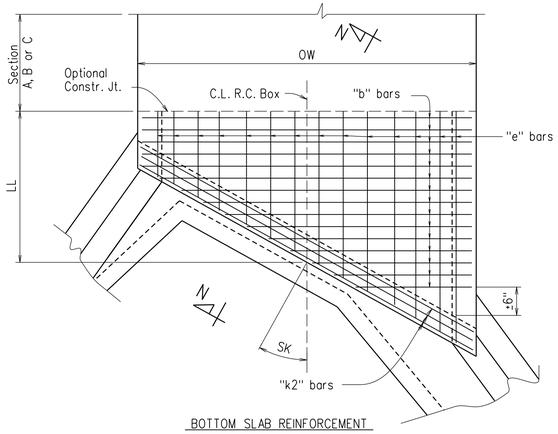


WINGWALL ATTACHMENT

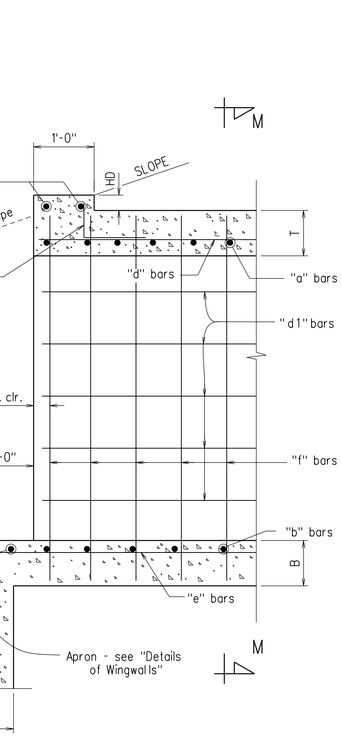
See "Details of Wingwalls" for additional information and wingwall details.



TOP SLAB REINFORCEMENT

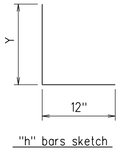


BOTTOM SLAB REINFORCEMENT



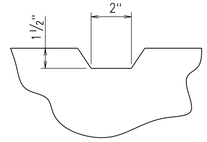
PART LONGITUDINAL SECTION

(Non-Skewed Ends)



PART LONGITUDINAL SECTION N-N

(Skewed Ends)



TYPICAL KEYWAY DETAIL

(All Construction Joints)

SKEWED END SECTION DETAILS

SHEET 2 OF 4
GENERAL DETAILS OF R.C. BOX CULVERT

DETAILS OF SINGLE BARREL R.C. BOX CULVERT

SPECIAL DETAILS

GARVER

CERTIFICATE OF AUTHORIZATION
GARVER LLC
No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN
Digitally Signed 10/12/2021

REV.	DATE	DESCRIPTION

City of Bryant Arkansas 1892

CITY OF BRYANT
SALINE COUNTY, ARKANSAS

BRYANT PARKWAY
SHOBE RD. TO I-30

SPECIAL DETAILS

JOB NO.: 16017140
DATE: APRIL 2018
DESIGNED BY: CMC
DRAWN BY: CMC

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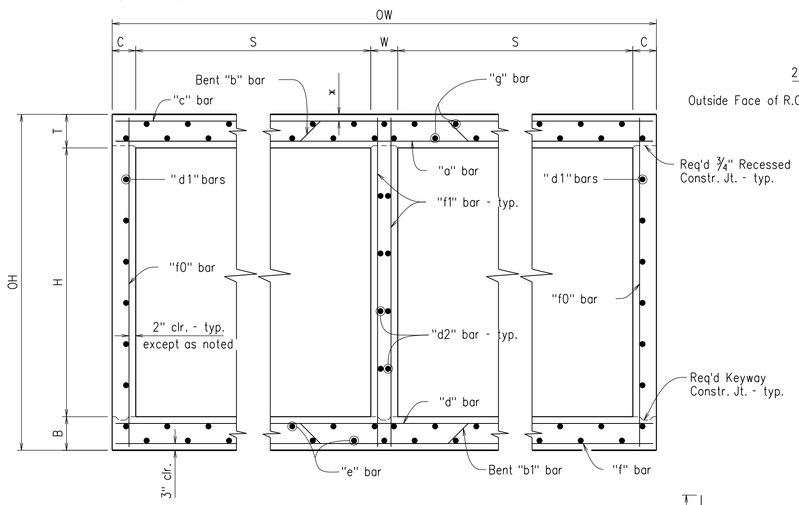
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x 2" clr. for fill depth (D) greater than 2 ft.
2½" clr. for fill depth (D) equal to or less than 2 ft.

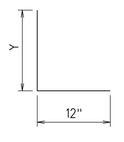
Note: When top slab of culvert serves as finished roadway surface, see General Notes on Sheet 1 of 4.



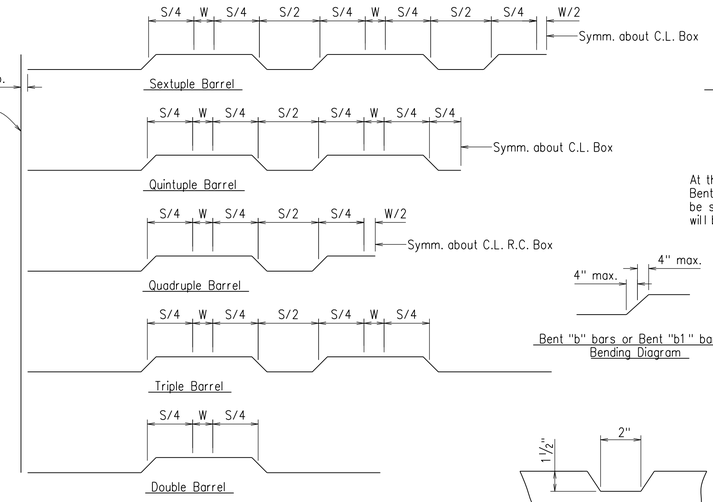
TYPICAL SECTION M-M

Top Slab
Straight "c" bars shall alternate with Bent "b" bars in top.
Straight "a" bars shall alternate with Bent "b" bars in bottom.

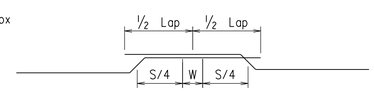
Bottom Slab
Straight "d" bars shall alternate with Bent "b1" bars in top.
Straight "f" bars shall alternate with Bent "b1" bars in bottom.



"h" bars sketch



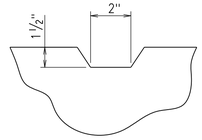
Bent "b" bars or Bent "b1" bars sketch



Lap Detail
For Bent "b" bars and Bent "b1" bars

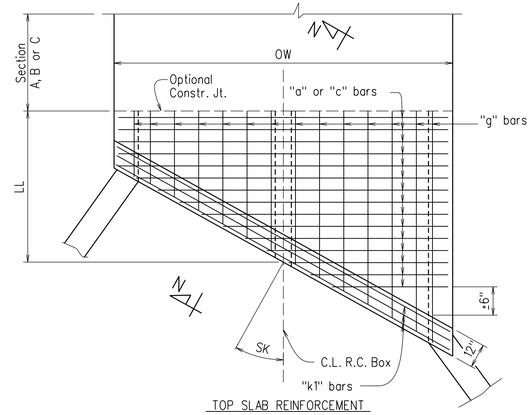
At the Contractor's option in lieu of providing Bent "b" or Bent "b1" bars, one bar top and bottom of equivalent size may be substituted for each bent bar. Payment for the reinforcing will be based on the weight of the "b" or "b1" bar.

Bent "b" bars or Bent "b1" bars Bending Diagram

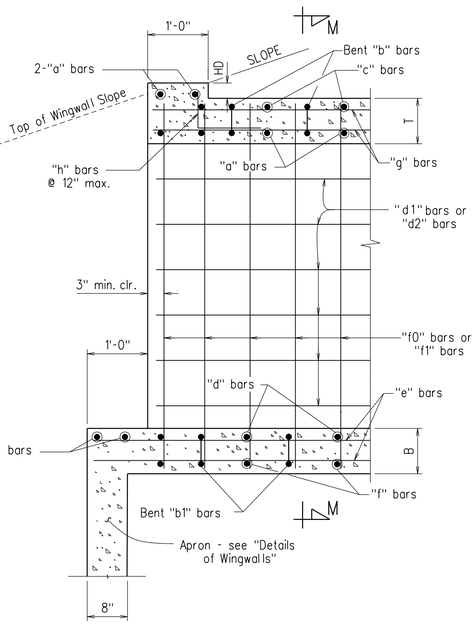


TYPICAL KEYWAY DETAIL

(All Construction Joints)

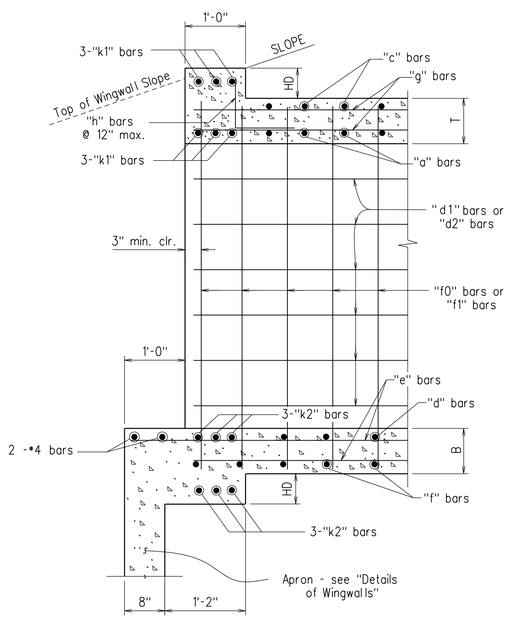


TOP SLAB REINFORCEMENT
Straight "c" bars in top.
Straight "a" bars in bottom.



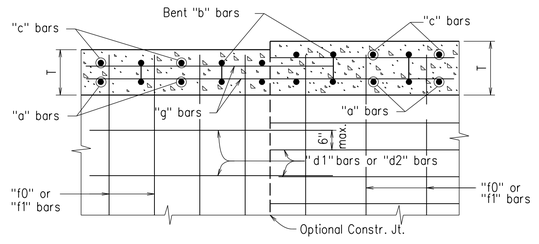
PART LONGITUDINAL SECTION

(Non-Skewed Ends)



PART LONGITUDINAL SECTION N-N

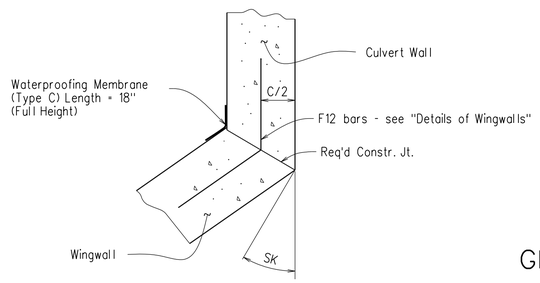
(Skewed Ends)



Longitudinal Bar Spacing at individual sections shall be maintained, which may result in noncontact bar laps.

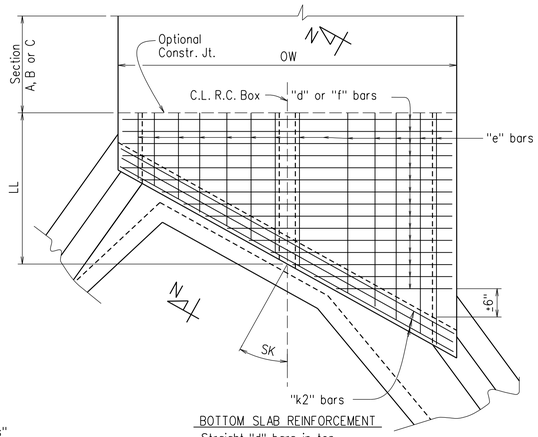
LONGITUDINAL LAP DETAIL AT CHANGE IN SECTIONS

TOP SLAB SHOWN, BOTTOM SLAB SIMILAR



WINGWALL ATTACHMENT

See "Details of Wingwalls" for additional information and wingwall details.



BOTTOM SLAB REINFORCEMENT
Straight "d" bars in top.
Straight "f" bars in bottom.

SKEWED END SECTION DETAILS

SHEET 3 OF 4
GENERAL DETAILS OF R.C. BOX CULVERT

DETAILS OF MULTI-BARREL R.C. BOX CULVERT

SPECIAL DETAILS

GARVER

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LICENSED PROFESSIONAL ENGINEER
No. 16145
CHARLES M. CULLEN
Digitally Signed 10/12/2021

REV.	DATE	DESCRIPTION

City of Bryant Arkansas 1892

CITY OF BRYANT
SALINE COUNTY, ARKANSAS

BRYANT PARKWAY
SHOBE RD. TO I-30

SPECIAL DETAILS

JOB NO.: 16017140
DATE: APRIL 2018
DESIGNED BY: CMC
DRAWN BY: CMC

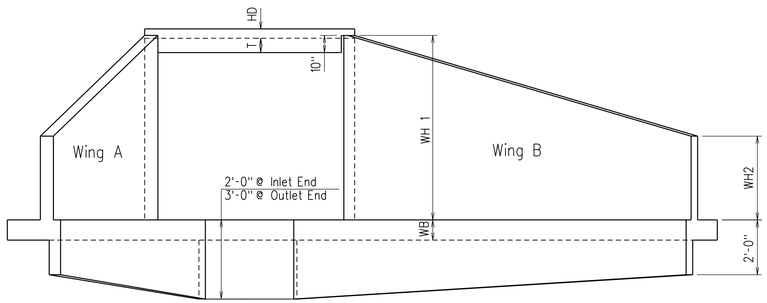
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-213

SHEET NUMBER 022

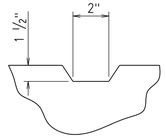
LRFD

CMCullen 10/12/2021 8:54:39 AM
WORKSPACE:Garver_2012
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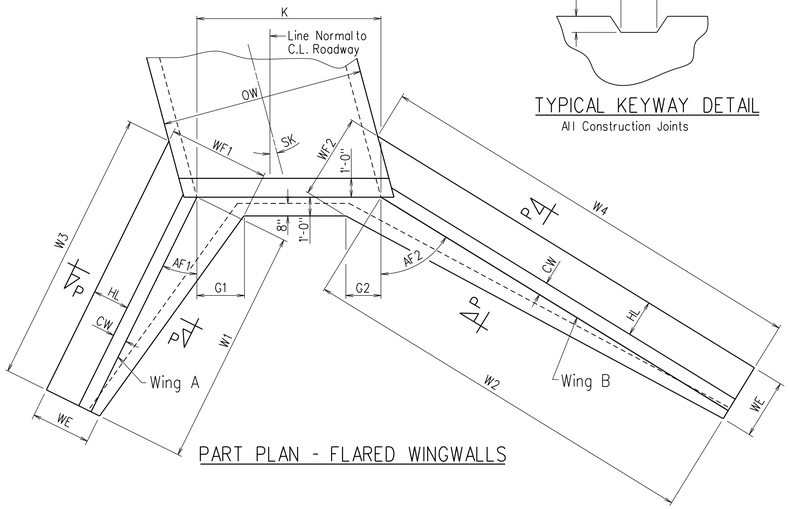
END ELEVATION

Flared Wingwalls Shown

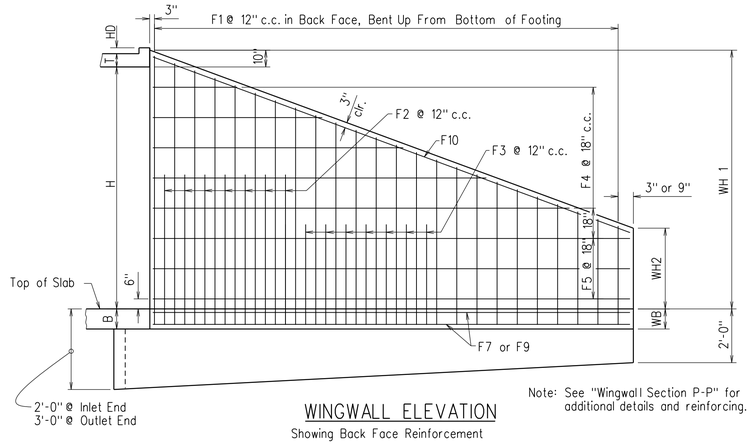


TYPICAL KEYWAY DETAIL

All Construction Joints



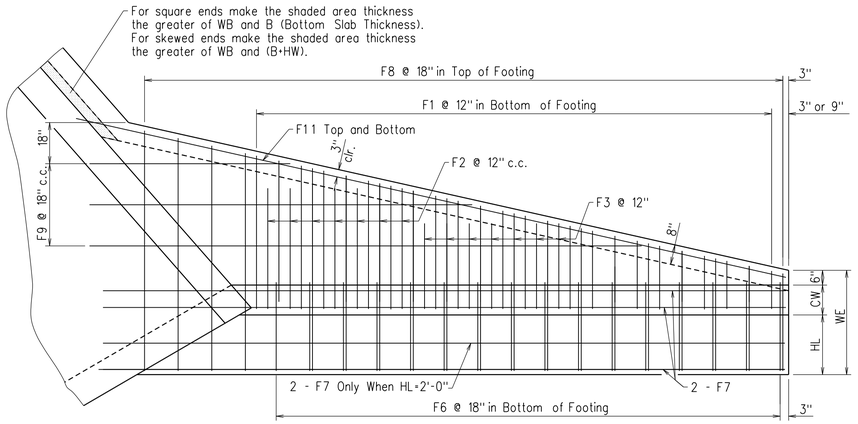
PART PLAN - FLARED WINGWALLS



WINGWALL ELEVATION

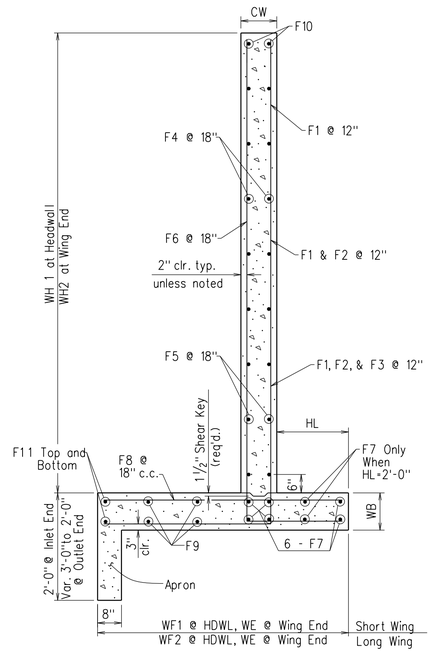
Showing Back Face Reinforcement

Note: See "Wingwall Section P-P" for additional details and reinforcing.

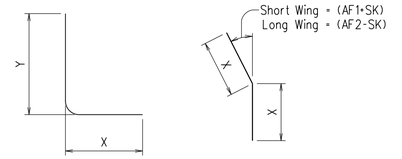


PLAN - FLARED WINGWALLS

Showing Footing Reinforcement



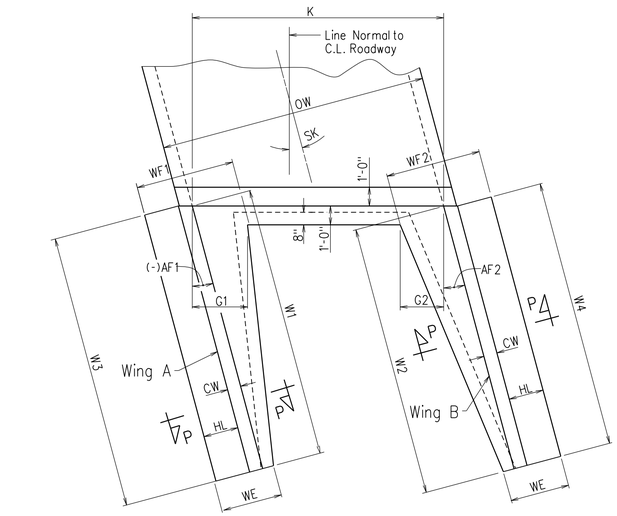
WINGWALL SECTION P-P



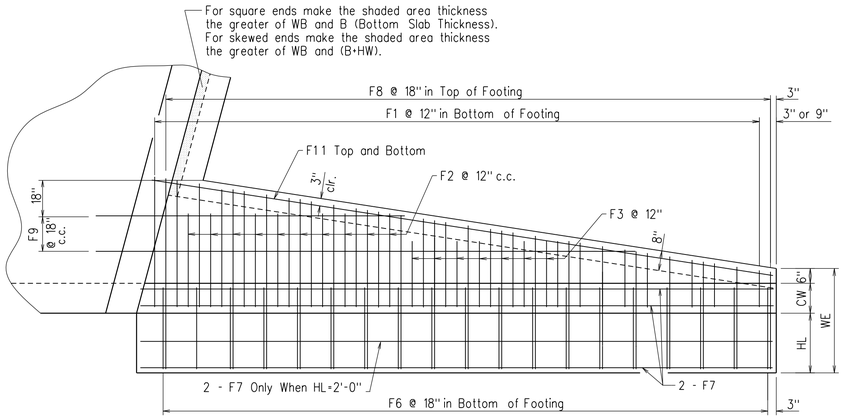
F1, F2, F3, & F6 BARS

*F12 BAR

*F12 is a straight bar for parallel wingwalls

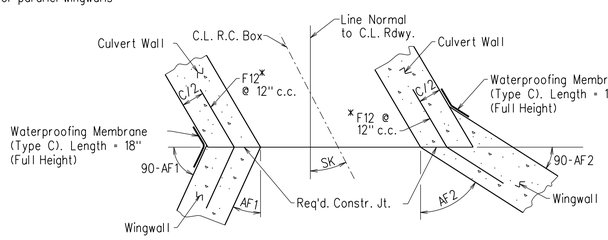


PART PLAN - PARALLEL WINGWALLS



PLAN - PARALLEL WINGWALLS

Showing Footing Reinforcement



CONSTRUCTION JOINTS

Flared Wingwalls Shown

SHEET 4 OF 4
GENERAL DETAILS OF R.C. BOX CULVERT
DETAILS OF WINGWALLS
SPECIAL DETAILS

GARVER

CERTIFICATE OF AUTHORIZATION
GARVER LLC
No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN
Digitally Signed 10/12/2021

REV.	DESCRIPTION	DATE

City of Bryant Arkansas 1892

CITY OF BRYANT
SALINE COUNTY, ARKANSAS

BRYANT PARKWAY
SHOBE RD. TO I-30

SPECIAL DETAILS

JOB NO.: 16017140
DATE: APRIL 2018
DESIGNED BY: CMC
DRAWN BY: CMC

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-214

SHEET NUMBER 023

LRFD

CMCullen 10/12/2021 8:54:40 AM
WORKSPACE\Garver 2012
L:\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C211-SD.dgn

NOTE: THE CLEAR HEIGHT OF THE BOX IS STILL 5'-0". THIS VALUE WAS CHANGED TO ACCOUNT FOR THE EXTRA HEIGHT OF THE WINGWALL ONLY.

REFER TO SPECIAL PROVISION FOR INFORMATION REGARDING COMMON WALL DETAILS AND QUANTITES

INLET WINGWALL TABLE

OVER ALL WIDTH	CLEAR HEIGHT	FOOTING THK.	WING WALL THK.	BOX SKEW (DEG.)	SLOPE	HDWL LENGTH	HEEL	WALL HEIGHT AT HDWL	WALL HEIGHT AT WING END	WINGWALL ANGLE (DEGREE) WING A	WINGWALL ANGLE (DEGREE) WING B	FOOTING WIDTH AT WALL END	WIDTH OF WING FOOTINGS AT HDWL WING A	WIDTH OF WING FOOTINGS AT HDWL WING B	FOOTING DIMENSION PARALLEL WITH HDWL WING A	FOOTING DIMENSION PARALLEL WITH HDWL WING B	LENGTH OF WINGWALLS WING A	LENGTH OF WINGWALLS WING B	LENGTH OF FOOTING HEEL WING A	LENGTH OF FOOTING HEEL WING B	CLASS "S" CONCRETE (Includes apron)	REINFORCING STEEL (Includes apron and laps if required)
OW	H	WB	CW	SK	SL	K	HL	WH1	WH2	AF1	AF2	WE	WF1	WF2	G1	G2	W1	W2	W3	W4	INLET	INLET
43'-0"	7'-10"	0'-9"	0'-8"	11	4:1	42'-9 3/8"	2'-0"	8'-8"	2'-7"	0	30	3'-2"	3'-5 7/8"	3'-8 7/8"	0'-9 7/8"	0'-7 7/8"	24'-0"	27'-6"	34'-10 1/2"	33'-7"	10.64	803

	F1				F2				F3				F4				F5				F6				F7				F8				F9				F10			F11			F12			
	WING	BAR SIZE	MAX SPACING	NO. REQ'D	LENGTHS VARY			BAR SIZE	SPACING	NO. REQ'D	LENGTHS	BAR SIZE	SPACING	NO. REQ'D	LENGTHS	BAR SIZE	SPACING	NO. REQ'D	LENGTHS VARY		BAR SIZE	SPACING	NO. REQ'D	LENGTHS	BAR SIZE	NO. REQ'D	LENGTHS	BAR SIZE	SPACING	NO. REQ'D	LENGTHS VARY		BAR SIZE	SPACING	NO. REQ'D	LENGTHS	BAR SIZE	NO. REQ'D	LENGTHS	BAR SIZE	SPACING	NO. REQ'D	LENGTHS		RNF. STEEL CY. PER WING (LBS)
	WING A	4	12	24	L	Min	3'-8"	4	12	4	L	4'-3"				L	3'-5"								L	Min	5'-5"																	
						Max	9'-10"																				Max	11'-1"																
					X	Min	0'-9"				X	1'-0"	4	18	6	X	1'-0"	4	18	4	23'-8"	4	18	16	X	Min	2'-4"	4	8	35'-8"	6	18	16	Min	2'-8"	-	-	-	Min	-					
						Max	1'-1"																				Max	2'-4"							Max				Max						
					Y	Min	3'-0"				Y	3'-4"				Y	2'-6"								Y	Min	3'-2"															L	3'-4"	0
						Max	8'-10"																				Max	8'-10"							Max	3'-0"						X	1'-8"	
	WING B	4	12	28	L	Min	3'-7"	4	12	4	L	4'-6"				L	3'-7"								L	Min	5'-2"																	
						Max	10'-1"																				Max	11'-1"																
					X	Min	0'-9"				X	1'-3"	4	12	5	X	1'-2"	4	18	8	27'-2"	4	18	19	X	Min	2'-4"	4	8	34'-5"	6	18	18	Min	2'-8"	-	-	-	Min	-					
						Max	1'-4"																				Max	2'-4"							Max				Max						
					Y	Min	2'-11"				Y	3'-4"				Y	2'-6"								Y	Min	2'-11"															L	3'-4"	803
						Max	8'-10"																				Max	8'-10"							Max	3'-3"						X	1'-8"	

This drawing to be used in conjunction with
SHEET 1 OF 4, "GENERAL DETAILS OF R.C. BOX CULVERT", 'GENERAL NOTES & LONGITUDINAL SECTION LENGTH SCHEDULE',
SHEET 3 OF 4, "GENERAL DETAILS OF R.C. BOX CULVERT", 'DETAILS OF MULTI-BARREL R.C. BOX CULVERT',
SHEET 4 OF 4, "GENERAL DETAILS OF R.C. BOX CULVERT", 'DETAILS OF WINGWALLS', and
STANDARD DRAWING RCB-2.

For additional information and outlet sections, see Sheet 2 of 2.

MID-SECTION BAR LAP TABLE

# of Long. Laps Req'd.	SL = Section Length
0	< 40.0 ft
1	>40.0 ft - 78.0 ft
2	>78.0 ft - 116.0 ft
3	>116.0 ft - 154.0 ft
4	>154.0 ft - 192.0 ft
5	>192.0 ft - 230.0 ft
6	>230.0 ft - 268.0 ft
7	>268.0 ft - 306.0 ft
8	>306.0 ft -344.0 ft

Min. Bar Lap Length	
#4	1'-9"
#5	2'-2"
#6	2'-7"
#7	3'-6"
#8	4'-7"

Bar Pin Dia. Table	
#4	3"
#5	3 3/4"
#6	4 1/2"
#7	5 1/4"
#8	6"

TABULAR DATA BY: AMW DATE: 07/14/2021
CHECKED BY: CMC DATE: 10/05/2021

INLET SKEWED END SECTION

| SKEW (DEGREE) | SLOPE | DESIGN FILL DEPTH (FT.) | CLEAR SPAN (FT.) | CLEAR HEIGHT (FT.) | SECTION LENGTH | TOP SLAB THK. | HDWL DEPTH | BOTTOM SLAB THK. | SIDE WALL THK. | INTERIOR WALL THK. | OVER ALL WIDTH | OVER ALL HEIGHT | TOP SLAB REINFORCING STEEL "a" SIZE | "a" SPACING | "a" LENGTHS VARY | "a" NO. REQ'D | TOP SLAB REINFORCING STEEL "c" SIZE | "c" SPACING | "c" LENGTHS VARY | "c" NO. REQ'D | BOTTOM SLAB REINFORCING STEEL "d" SIZE | "d" SPACING | "d" LENGTHS VARY | "d" NO. REQ'D | BOTTOM SLAB REINFORCING STEEL "f" SIZE | "f" SPACING | "f" LENGTHS VARY | "f" NO. REQ'D | SIDE WALL REINFORCING STEEL "f0" SIZE | "f0" SPACING | "f0" NO. REQ'D | "f0" LENGTH | INTERIOR WALL REINFORCING STEEL "f1" SIZE | "f1" SPACING | "f1" NO. REQ'D | "f1" LENGTH | TOP SLAB DISTRIBUTION REINFORCING STEEL "g" SIZE | "g" SPACING | "g" NO. REQ'D | "g" LENGTHS VARY | BOTTOM SLAB DISTRIBUTION REINFORCING STEEL "e" SIZE | "e" SPACING | "e" NO. REQ'D | "e" LENGTHS VARY | SIDE WALL DISTRIBUTION REINFORCING STEEL "d1" SIZE | "d1" SPACING | "d1" NO. REQ'D | "d1" LENGTH | INTERIOR WALL DISTRIBUTION REINFORCING STEEL "d2" SIZE | "d2" SPACING | "d2" NO. REQ'D | "d2" LENGTH | CLASS "S" CONCRETE (Includes HDWL) CU. YDS. | REINFORCING STEEL (GR 60) (Includes HDWL) LBS. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---

NOTE: THE CLEAR HEIGHT OF THE BOX IS STILL 5'-0". THIS VALUE WAS CHANGED TO ACCOUNT FOR THE EXTRA HEIGHT OF THE WINGWALL ONLY.

OUTLET WINGWALL TABLE

OVER ALL WIDTH	CLEAR HEIGHT	FOOTING THK.	WING WALL THK.	BOX SKEW (DEG.)	SLOPE	HDWL LENGTH	HEEL	WALL HEIGHT AT HDWL	WALL HEIGHT AT WING END	WINGWALL ANGLE (DEGREE) WING A	WINGWALL ANGLE (DEGREE) WING B	FOOTING WIDTH AT WALL END	WIDTH OF WING FOOTINGS AT HDWL WING A	WIDTH OF WING FOOTINGS AT HDWL WING B	FOOTING DIMENSION PARALLEL WITH HDWL WING A	FOOTING DIMENSION PARALLEL WITH HDWL WING B	LENGTH OF WINGWALLS WING A	LENGTH OF WINGWALLS WING B	LENGTH OF FOOTING HEEL WING A	LENGTH OF FOOTING HEEL WING B	CLASS "S" CONCRETE (Includes apron)	REINFORCING STEEL (Includes apron and laps if required)
OW	H	WB	CW	SK	SL	K	HL	WH1	WH2	AF1	AF2	WE	WF1	WF2	G1	G2	W1	W2	W3	W4	CU.YD	LBS.
43'-1"	8'-0"	0'-9"	0'-8"	11	4:1	42'-9 3/8"	2'-0"	8'-10"	2'-8"	30	0	3'-2"	4'-2 7/8"	3'-10 5/8"	1'-2 7/8"	1'-2 5/8"	28'-0"	24'-6"	30'-2 7/8"	24'-6"	13.24	881

WING	BAR SIZE	MAX. SPACING	NO. REQ'D	LENGTHS VARY	F1	BAR SIZE	SPACING	NO. REQ'D	F2 LENGTHS	BAR SIZE	SPACING	NO. REQ'D	F3 LENGTHS	BAR SIZE	SPACING	NO. REQ'D	F4 LENGTHS VARY	BAR SIZE	SPACING	NO. REQ'D	F5 LENGTHS	BAR SIZE	SPACING	NO. REQ'D	F6 LENGTHS VARY	BAR SIZE	NO. REQ'D	F7 LENGTHS	BAR SIZE	SPACING	NO. REQ'D	F8 LENGTHS VARY	BAR SIZE	SPACING	NO. REQ'D	F9 LENGTHS	BAR SIZE	NO. REQ'D	F10 LENGTHS	F11 BAR SIZE	NO. REQ'D	LENGTHS	F12 BAR SIZE	SPACING	NO. REQ'D	LENGTHS	REINF. STEEL QTY. PER WING (LBS)
WING A	4	12	28	X	Min 2'-9"	4	12	10	X 4'-1"	-	-	-	L -	4	18	8	Min 2'-10"	4	18	4	27'-8"	4	18	19	X Min 11'-3"	4	8	31'-1"	6	18	19	Min 2'-8"	4	18	2	Min 40'-9"	4	2	28'-2"	4	2	29'-9"	6	12	8	L 3'-4"	881
					Max 10'-9"												Max 2'-10"								Min 2'-4"							Max 2'-8"				Max 40'-9"										X 1'-8"	
				Y	Min 0'-9"				Y 3'-6"				Y -				Max 23'-4"								Max 2'-4"							Max 3'-9"															
					Max 1'-10"																				Min 3'-1"																					
					Max 3'-1"																				Max 9'-0"																					
WING B	4	12	25	X	Min 0'-9"	4	12	8	X 1'-3"	-	-	-	L -	4	18	8	Min 2'-6"	4	18	4	24'-2"	4	18	17	X Min 5'-3"	4	8	24'-2"	6	18	16	Min 2'-8"	-	-	-	-	4	2	24'-9"	4	2	25'-4"	6	12	8	L 3'-4"	0
					Max 1'-6"												Max 20'-4"								Min 11'-3"							Max 3'-4"														X 1'-8"	
				Y	Min 3'-0"				Y 3'-6"				Y -												Min 2'-4"																					
					Max 3'-0"																				Max 3'-0"																					

Min. Bar Lap Length	
#4	1'-9"
#5	2'-2"
#6	2'-7"
#7	3'-6"
#8	4'-7"

Bar Pin Dia. Table	
#4	3"
#5	3 3/4"
#6	4 1/2"
#7	5 1/4"
#8	6"

① Any Bar Lap Required for the Skewed End Section shall be considered subsidiary to the item "Reinforcing Steel - Roadway (Grade 60)."

REFER TO SPECIAL PROVISION FOR INFORMATION REGARDING COMMON WALL DETAILS AND QUANTITES

OUTLET SKEWED END SECTION

SKEW (DEGREE)	SLOPE	DESIGN FILL DEPTH (FT.)	CLEAR SPAN (FT.)	CLEAR HEIGHT (FT.)	SECTION LENGTH	TOP SLAB THK.	HDWL DEPTH	BOTTOM SLAB THK.	SIDE WALL THK.	INTERIOR WALL THK.	OVER ALL WIDTH	OVER ALL HEIGHT	TOP SLAB REINFORCING STEEL "a" SIZE	"a" SPACING	"a" LENGTHS VARY	"a" NO. REQ'D	"c" SIZE	"c" SPACING	"c" LENGTHS VARY	"c" NO. REQ'D	BOTTOM SLAB REINFORCING STEEL "d" SIZE	"d" SPACING	"d" LENGTHS VARY	"d" NO. REQ'D	"f" SIZE	"f" SPACING	"f" LENGTHS VARY	"f" NO. REQ'D	SIDE WALL REINFORCING STEEL "f0" SIZE	"f0" SPACING	"f0" NO. REQ'D	"f0" LENGTH	INTERIOR WALL REINFORCING STEEL "f1" SIZE	"f1" SPACING	"f1" NO. REQ'D	"f1" LENGTH	TOP SLAB DISTRIBUTION REINFORCING STEEL "g" SIZE	"g" SPACING	"g" NO. REQ'D	"g" LENGTHS VARY	BOTTOM SLAB DISTRIBUTION REINFORCING STEEL "e" SIZE	"e" SPACING	"e" NO. REQ'D	"e" LENGTHS VARY	SIDE WALL DISTRIBUTION REINFORCING STEEL "d1" SIZE	"d1" SPACING	"d1" NO. REQ'D	"d1" LENGTH	INTERIOR WALL DISTRIBUTION REINFORCING STEEL "d2" SIZE	"d2" SPACING	"d2" NO. REQ'D	"d2" LENGTH	CLASS "S" CONCRETE (Includes HDWL) CU. YDS.	REINFORCING STEEL (GR 60) (Includes HDWL) LBS.
SK	SL	D	S	H	LL	T	HD	B	C	W	OW	OH																																										
11	4:1	2	10	5	6'-2"	13	8	13	6	8	43'-0"	7'-2"	6	9	Max 42'-8" Min 8'-0"	9	7	4.5	Max 42'-8" Min 8'-0"	18	4	8.5	Max 42'-8" Min 8'-0"	10	4	9	Max 42'-8" Min 8'-0"	9	4	7	22	6'-10"	4	12	44	6'-10"	4	8.5	127	Max 10'-2" Min 1'-10"	4	8.5	127	Max 10'-2" Min 1'-10"	4	12	5	LONG 10'-2" SHORT 1'-11"	4	12	10 LONG 8'-1" 10 MID 6'-0" 10 SHORT 3'-11"	25.63	4385

"k1" HDWL BARS SIZE	LENGTH	NO. REQ'D	"k2" HDWL BARS SIZE	LENGTH	NO. REQ'D	"h" HDWL BARS SIZE	LENGTH	Y	NO. REQ'D
4	22'-7"	12	4	22'-7"	12	4	2'-0"	1'-0"	45

OUTLET SLOPE SECTION(S)

R.C. BOX SECTION	DESIGN FILL DEPTH (FT.)	CLEAR SPAN (FT.)	CLEAR HEIGHT (FT.)	TOP SLAB THK.	BOTTOM SLAB THK	SIDE WALL THK	INTERIOR WALL THK.	OVER ALL WIDTH	OVER ALL HEIGHT	SECTION LENGTH (FT.)	TOP SLAB REINFORCING STEEL LENGTH = OW - 4" + BENDS "a" SIZE	"a" L	Bent "b" SIZE	Bent "b" L	"c" SIZE	"c" L	SPACING	NO. REQ'D	BOTTOM SLAB REINFORCING STEEL LENGTH = OW - 4" + BENDS "d" SIZE	"d" L	Bent "b1" SIZE	Bent "b1" L	"f" SIZE	"f" L	SPACING	NO. REQ'D	SIDE WALL REINFORCING STEEL "f0" LENGTH = OH - 4" SIZE	SPACING	NO. REQ'D	LENGTH	INTERIOR WALL REINFORCING STEEL "f1" LENGTH = OH - 4" SIZE	SPACING	NO. REQ'D	LENGTH	TOP SLAB DISTRIBUTION REINF. STEEL "g" LENGTH = SL SIZE	SPACING	NO. REQ'D	BOTTOM SLAB DISTRIBUTION REINF. STEEL "e" LENGTH = SL SIZE	SPACING	NO. REQ'D	SIDE WALL DISTRIBUTION REINF. STEEL "d1" LENGTH = SL SIZE	SPACING	NO. REQ'D	INTERIOR WALL DISTRIBUTION REINF. STEEL "d2" LENGTH = SL SIZE	SPACING	NO. REQ'D	CLASS "S" CONCRETE CU. YDS.	REINFORCING STEEL (GR 60) LBS.
D	S	H	T	B	C	W	OW	OH	SL																																												

HDWL DEPTH HD	ADDITIONAL REINF. FOR HDWL LBS.	"h" HDWL BARS SIZE	Y	LENGTH	NO. REQ'D

CLASS "S" CONCRETE CU. YDS.	REINFORCING STEEL (GR 60) LBS.
TOTAL	

The required number of bars and lengths shown are for estimating purpose only.
The actual number and length required shall be determined in field.

Unless otherwise noted, all dimensions are in inches.

TABULAR DATA BY: AMW DATE: 07/14/2021
CHECKED BY: CMC DATE: 10/05/2021

SHEET 2 OF 2
DETAILS OF R.C. BOX CULVERT
QUADRUPLE BARREL BOX CULVERT
STA. 67+62

SPECIAL DETAILS

GARVER
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THIS DOCUMENT, ALONG WITH THE IDEAS AND DESIGNS CONVEYED HEREIN, SHALL BE CONSIDERED INSTRUMENTS OF PROFESSIONAL SERVICE AND ARE PROPERTY OF GARVER, LLC. ANY USE, REPRODUCTION, OR DISTRIBUTION OF THIS DOCUMENT, ALONG WITH THE IDEAS AND DESIGN CONTAINED HEREIN, IS PROHIBITED UNLESS AUTHORIZED IN WRITING BY GARVER, LLC OR EXPLICITLY ALLOWED IN THE GOVERNING PROFESSIONAL SERVICES AGREEMENT FOR THIS WORK.

CERTIFICATE OF AUTHORIZATION ARKANSAS ENGINEER GARVER LLC No. 766

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No.16145 CHARLES M. CULLEN
Digitally Signed 02/02/2022

REV.	DATE	DESCRIPTION	BY
1	02/02/22	SHORTENED BOX, REMOVED WINGWALL, ADJUST. TOP SLAB	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

SPECIAL DETAILS

JOB NO.: 18017190
DATE: FEBRUARY 2022
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER C-216
SHEET NUMBER 025

CMCullen 2/2/2022 1:11:34 PM
WORKSPACE:Garver_2012
L:\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C215-SD-REV1-CO1.dgn

INLET WINGWALL TABLE

OVER ALL WIDTH	CLEAR HEIGHT	FOOTING THK.	WING WALL THK.	BOX SKEW (DEG.)	SLOPE	HDWL LENGTH	HEEL	WALL HEIGHT AT HDWL	WALL HEIGHT AT WING END	WINGWALL ANGLE (DEGREE) WING A	WINGWALL ANGLE (DEGREE) WING B	FOOTING WIDTH AT WALL END	WIDTH OF WING FOOTINGS AT HDWL WING A	WIDTH OF WING FOOTINGS AT HDWL WING B	FOOTING DIMENSION PARALLEL WITH HDWL WING A	FOOTING DIMENSION PARALLEL WITH HDWL WING B	LENGTH OF WINGWALLS WING A	LENGTH OF WINGWALLS WING B	LENGTH OF FOOTING HEEL WING A	LENGTH OF FOOTING HEEL WING B	CLASS "S" CONCRETE (Includes apron) INLET	REINFORCING STEEL (Includes apron and laps if required) INLET
OW	H	WB	CW	SK	SL	K	HL	WH1	WH2	AF1	AF2	WE	WF1	WF2	G1	G2	W1	W2	W3	W4	CU.YD	LBS.
32'-6"	5'-0"	0'-9"	0'-8"	11	4:1	31'-11"	1'-0"	5'-10"	4'-8"	30	30	2'-2"	2'-10 3/4"	2'-10 3/4"	0'-10 1/8"	0'-10 1/8"	19'-0"	19'-0"	20'-0 3/8"	22'-0 5/8"	9.18	804

WING	F1 BAR SIZE	F1 MAX. SPACING	F1 NO. REQ'D	F1 LENGTHS VARY			F1 LENGTHS	F2 BAR SIZE	F2 SPACING	F2 NO. REQ'D	F2 LENGTHS	F3 BAR SIZE	F3 SPACING	F3 NO. REQ'D	F3 LENGTHS	F4 BAR SIZE	F4 SPACING	F4 NO. REQ'D	F5 LENGTHS VARY	F5 BAR SIZE	F5 SPACING	F5 NO. REQ'D	F5 LENGTHS	F6 BAR SIZE	F6 SPACING	F6 NO. REQ'D	F6 LENGTHS VARY			F6 LENGTHS	F7 BAR SIZE	F7 NO. REQ'D	F7 LENGTHS	F8 BAR SIZE	F8 SPACING	F8 NO. REQ'D	F8 LENGTHS VARY	F9 BAR SIZE	F9 SPACING	F9 NO. REQ'D	F9 LENGTHS	F10 BAR SIZE	F10 NO. REQ'D	F10 LENGTHS	F11 BAR SIZE	F11 NO. REQ'D	F11 LENGTHS	F12 BAR SIZE	F12 SPACING	F12 NO. REQ'D	F12 LENGTHS		REINF. STEEL QTY. PER WING (LBS)
WING A	4	12	19	L	Min	2'-9"																						Min	3'-4"																					
					Max	7'-5"																						Max	7'-3"																					
				X	Min	0'-9"	-	-	-	L	-								Min	2'-10"	4	18	2	18'-8"	4	18	13	Min	1'-4"	L	-	4	6	20'-10"	6	18	13	Min	1'-8"	-	-	-	Min	-	4	2	19'-0"	4	2	20'-7"	6	12	5	L	3'-4"	398
					Max	1'-6"																						Max	1'-4"																					
				Y	Min	2'-1"																						Min	2'-1"																					
					Max	6'-0"																						Max	6'-0"																					
WING B	4	12	19	L	Min	2'-9"																						Min	3'-4"																					
					Max	7'-5"																						Max	7'-3"																					
				X	Min	0'-9"	-	-	-	L	-								Min	2'-10"	4	18	2	18'-8"	4	18	13	Min	1'-4"	L	-	4	6	22'-11"	6	18	13	Min	1'-8"	-	-	-	Min	-	4	2	19'-0"	4	2	20'-7"	6	12	5	L	3'-4"	406
					Max	1'-6"																						Max	1'-4"																					
				Y	Min	2'-1"																						Min	2'-1"																					
					Max	6'-0"																						Max	6'-0"																					

INLET SKEWED END SECTION

SKEW (DEGREE)	SLOPE	DESIGN FILL DEPTH (FT.)	CLEAR SPAN (FT.)	CLEAR HEIGHT (FT.)	SECTION LENGTH	TOP SLAB THK.	HDWL DEPTH	BOTTOM SLAB THK.	SIDE WALL THK.	INTERIOR WALL THK.	OVER ALL WIDTH	OVER ALL HEIGHT	TOP SLAB REINFORCING STEEL "a" SIZE	"a" SPACING	"a" LENGTHS VARY	"a" NO. REQ'D	"c" SIZE	"c" SPACING	"c" LENGTHS VARY	"c" NO. REQ'D	BOTTOM SLAB REINFORCING STEEL "d" SIZE	"d" SPACING	"d" LENGTHS VARY	"d" NO. REQ'D	"f" SIZE	"f" SPACING	"f" LENGTHS VARY	"f" NO. REQ'D	SIDE WALL REINFORCING STEEL "f0" SIZE	"f0" SPACING	"f0" NO. REQ'D	"f0" LENGTH	INTERIOR WALL REINFORCING STEEL "f1" SIZE	"f1" SPACING	"f1" NO. REQ'D	"f1" LENGTH	TOP SLAB DISTRIBUTION REINFORCING STEEL "g" SIZE	"g" SPACING	"g" NO. REQ'D	"g" LENGTHS VARY	BOTTOM SLAB DISTRIBUTION REINFORCING STEEL "e" SIZE	"e" SPACING	"e" NO. REQ'D	"e" LENGTHS VARY	SIDE WALL DISTRIBUTION REINFORCING STEEL "d1" SIZE	"d1" SPACING	"d1" NO. REQ'D	"d1" LENGTH	INTERIOR WALL DISTRIBUTION REINFORCING STEEL "d2" SIZE	"d2" SPACING	"d2" NO. REQ'D	"d2" LENGTH	CLASS "S" CONCRETE (Includes HDWL) CU. YDS.	REINFORCING STEEL (GR 60) (Includes HDWL) LBS.
SK	SL	D	S	H	LL	T	HD	B	C	W	OW	OH																																									
11	4:1	2	10	5	5'-2"	13	X	13	6	8	32'-4"	7'-2"	6	9	Max 32'-0" Min 8'-0"	7	6	4	Max 32'-0" Min 8'-0"	15	4	9	Max 32'-0" Min 8'-0"	7	4	8.5	Max 32'-0" Min 8'-0"	7	4	7	19	6'-10"	4	12	26	6'-10"	4	9	89	Max 1'-10"	4	9	89	Max 1'-10"	4	12	5	LONG 8'-1" SHORT 1'-11"	4	12	10	LONG 6'-0" SHORT 3'-11"	16.23	2610
													8	32'-10"		6	6	32'-0"		9	118	4	32'-0"		4	4	32'-9"		4	4	32'-0"		16	66	4	7	304	6'-10"	4	12	352	6'-10"	4	9	89	4	9	89		4	12	10		4	12	20		268.37	38684

"K" HDWL BARS SIZE	"K" HDWL BARS LENGTH	"K" HDWL BARS NO. REQ'D	"K2" HDWL BARS SIZE	"K2" HDWL BARS LENGTH	"K2" HDWL BARS NO. REQ'D	"h" HDWL BARS SIZE	"h" HDWL BARS LENGTH	"h" HDWL BARS Y	"h" HDWL BARS NO. REQ'D
4	32' 7"	6	4	32'-7"	6	4	2'-0"	1'-0"	34

INLET SLOPE SECTION(S)

R.C. BOX SECTION	DESIGN FILL DEPTH (FT.)	CLEAR SPAN (FT.)	CLEAR HEIGHT (FT.)	TOP SLAB THK.	BOTTOM SLAB THK.	SIDE WALL THK.	INTERIOR WALL THK.	OVER ALL WIDTH	OVER ALL HEIGHT	SECTION LENGTH (FT.)	TOP SLAB REINFORCING STEEL LENGTH = OW - 4" + BENDS "a" SIZE	"a" L	Bent "b" SIZE	Bent "b" L	"c" SIZE	"c" L	"c" SPACING	"c" NO. REQ'D	BOTTOM SLAB REINFORCING STEEL LENGTH = OW - 4" + BENDS "d" SIZE	"d" L	Bent "b1" SIZE	Bent "b1" L	"f" SIZE	"f" L	"f" SPACING	"f" NO. REQ'D	SIDE WALL REINFORCING STEEL "f0" LENGTH = OH - 4" SIZE	"f0" SPACING	"f0" NO. REQ'D	"f0" LENGTH	INTERIOR WALL REINFORCING STEEL "f1" LENGTH = OH - 4" SIZE	"f1" SPACING	"f1" NO. REQ'D	"f1" LENGTH	TOP SLAB DISTRIBUTION REINFORCING STEEL "g" LENGTH = SL SIZE	"g" SPACING	"g" NO. REQ'D	BOTTOM SLAB DISTRIBUTION REINFORCING STEEL "e" LENGTH = SL SIZE	"e" SPACING	"e" NO. REQ'D	SIDE WALL DISTRIBUTION REINFORCING STEEL "d1" LENGTH = SL SIZE	"d1" SPACING	"d1" NO. REQ'D	INTERIOR WALL DISTRIBUTION REINFORCING STEEL "d2" LENGTH = SL SIZE	"d2" SPACING	"d2" NO. REQ'D	CLASS "S" CONCRETE CU. YDS.	REINFORCING STEEL (GR 60) LBS.
D	S	H	T	B	C	W	OW	OH	SL																																										

HDWL DEPTH HD	ADDITIONAL REINF. FOR HDWL LBS.	"h" HDWL BARS SIZE	Y	LENGTH	NO. REQ'D

CLASS "S" CONCRETE CU. YDS.	REINFORCING STEEL (GR 60) LBS.
TOTAL	

MID-SECTION

R.C. BOX SECTION	DESIGN FILL DEPTH (FT.)	CLEAR SPAN (FT.)	CLEAR HEIGHT (FT.)	TOP SLAB THK.	BOTTOM SLAB THK.	SIDE WALL THK.	INTERIOR WALL THK.	OVER ALL WIDTH	OVER ALL HEIGHT	SECTION LENGTH (FT.)	TOP SLAB REINFORCING STEEL LENGTH = OW - 4" + BENDS "a" SIZE	"a" L	Bent "b" SIZE	Bent "b" L	"c" SIZE	"c" L	"c" SPACING	"c" NO. REQ'D	BOTTOM SLAB REINFORCING STEEL LENGTH = OW - 4" + BENDS "d" SIZE	"d" L	Bent "b1" SIZE	Bent "b1" L	"f" SIZE	"f" L	"f" SPACING	"f" NO. REQ'D	SIDE WALL REINFORCING STEEL "f0" LENGTH = OH - 4" SIZE	"f0" SPACING	"f0" NO. REQ'D	"f0" LENGTH	INTERIOR WALL REINFORCING STEEL "f1" LENGTH = OH - 4" SIZE	"f1" SPACING	"f1" NO. REQ'D	"f1" LENGTH	TOP SLAB DISTRIBUTION REINF. STEEL "g" LENGTH = SL SIZE	"g" SPACING	"g" NO. REQ'D	BOTTOM SLAB DISTRIBUTION REINF. STEEL "e" LENGTH = SL SIZE	"e" SPACING	"e" NO. REQ'D	SIDE WALL DISTRIBUTION REINF. STEEL "d1" LENGTH = SL SIZE	"d1" SPACING	"d1" NO. REQ'D	INTERIOR WALL DISTRIBUTION REINF. STEEL "d2" LENGTH = SL SIZE	"d2" SPACING	"d2" NO. REQ'D	CLASS "S" CONCRETE CU. YDS.	REINFORCING STEEL (GR 60) LBS.
D	S	H	T	B	C	W	OW	OH	SL																																										
A	2	10	5	13	13	6	8	32'-4"	7'-2"	88.67	4	32'-0"	8	32'-10"	6	32'-0"	9	118	4	32'-0"	4	32'-9"	4	32'-0"	16	66	4	7	304	6'-10"	4	12	352	6'-10"	4	9	89	4	9	89	4	12	10	4	12	20	268.37	38684

MID-SECTION

BAR LAP TABLE

# of Long. Laps Req'd.	SL = Section Length
0	< 40.0 ft
1	>40.0 ft - 78.0 ft
2	>78.0 ft - 116.0 ft
3	>116.0 ft - 154.0 ft
4	>154.0 ft - 192.0 ft
5	>192.0 ft - 230.0 ft
6	>230.0 ft - 268.0 ft
7	>268.0 ft - 306.0 ft
8	>306.0 ft -344.0 ft

Min. Bar Lap Length	
#4	1'-9"
#5	2'-2"
#6	2'-7"
#7	3'-6"
#8	4'-7"

Bar Pin Dia. Table	
#4	3"
#5	3 3/4"
#6	4 1/2"
#7	5 1/4"
#8	6"

Design Fill Depth	Range of Actual Fill Depth
2	0.0 ft - 2.0 ft
5	>2.0 ft - 5.0 ft
10	>5.0 ft - 10.0 ft
15	>10.0 ft - 15.0 ft
20	>15.0 ft - 20.0 ft
25	>20.0 ft - 25.0 ft
30	>25.0 ft - 30.0 ft
35	>30.0 ft - 35.0 ft
40	>35.0 ft - 40.0 ft

REFER TO SPECIAL PROVISION FOR INFORMATION REGARDING COMMON WALL DETAILS AND QUANTITES

This drawing to be used in conjunction with SHEET 1 OF 4, "GENERAL DETAILS OF R.C. BOX CULVERT", 'GENERAL NOTES & LONGITUDINAL SECTION LENGTH SCHEDULE', SHEET 3 OF 4, "GENERAL DETAILS OF R.C. BOX CULVERT", 'DETAILS OF MULTI-BARREL R.C. BOX CULVERT', SHEET 4 OF 4, "GENERAL DETAILS OF R.C. BOX CULVERT", 'DETAILS OF WINGWALLS', and STANDARD DRAWING RCB-2.

⚠ For additional information and outlet sections, see Sheet 2 of 2.

① Any Bar Lap Required for the Skewed End Section shall be considered subsidiary to the item "Reinforcing Steel - Roadway (Grade 60)."

Data shown for Mid-Section, Slope Section(s), and Skewed End Section is based on the design fill depth shown in the table, see PLAN AND PROFILE SHEETS for actual fill depth.

TABULAR DATA BY: AMW DATE: 07/14/2021
CHECKED BY: CMC DATE: 10/05/2021

SHEET 1 OF 2
DETAILS OF R.C. BOX CULVERT
TRIPLE BARREL BOX CULVERT
STA. 68+11
SPECIAL DETAILS

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GARVER LLC No. 766 CERTIFICATE OF AUTHORIZATION ARKANSAS ENGINEER

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No.16145 CHARLES M. CULLEN
Digitally Signed 02/02/2022

REV.	DATE	DESCRIPTION	BY
⚠	02/02/22	SHORTENED BOX, REMOVED WINGWALL, ADJUST. TOP SLAB	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

SPECIAL DETAILS

JOB NO.: 18017190
DATE: FEBRUARY 2022
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER C-217
SHEET NUMBER 026

CMCullen 2/2/2022 1:11:42 PM
W:\WORKSPACE\Garver 2012
L:\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C217-SD-REV1-CO1.dgn

REFER TO SPECIAL PROVISION FOR INFORMATION REGARDING COMMON WALL DETAILS AND QUANTITES

OUTLET WINGWALL TABLE

OVER ALL WIDTH	CLEAR HEIGHT	FOOTING THK.	WING WALL THK.	BOX SKEW (DEG.)	SLOPE	HDWL LENGTH	HEEL	WALL HEIGHT AT HDWL	WALL HEIGHT AT WING END	WINGWALL ANGLE (DEGREE) WING A	WINGWALL ANGLE (DEGREE) WING B	FOOTING WIDTH AT WALL END	WIDTH OF WING FOOTINGS AT HDWL WING A	WIDTH OF WING FOOTINGS AT HDWL WING B	FOOTING DIMENSION PARALLEL WITH HDWL WING A	FOOTING DIMENSION PARALLEL WITH HDWL WING B	LENGTH OF WINGWALLS WING A	LENGTH OF WINGWALLS WING B	LENGTH OF FOOTING HEEL WING A	LENGTH OF FOOTING HEEL WING B	CLASS "S" CONCRETE (Includes apron) OUTLET	REINFORCING STEEL (Includes apron and laps if required) OUTLET
OW	H	WB	CW	SK	SL	K	HL	WH1	WH2	AF1	AF2	WE	WF1	WF2	G1	G2	W1	W2	W3	W4	CU.YD	LBS.
32'-6"	5'-0"	0'-9"	0'-8"	11	4:1	31'-11"	1'-0"	5'-10"	4'-8"	30	30	2'-2"	2'-10 3/4"	2'-10 3/4"	0'-10 1/8"	0'-10 1/8"	19'-0"	19'-0"	20'-0 3/8"	22'-0 5/8"	10.38	804

WING	F1 BAR SIZE	F1 MAX. SPACING	F1 NO. REQ'D	F1 LENGTHS VARY			F2 BAR SIZE	F2 SPACING	F2 NO. REQ'D	F2 LENGTHS			F3 BAR SIZE	F3 SPACING	F3 NO. REQ'D	F3 LENGTHS			F4 BAR SIZE	F4 SPACING	F4 NO. REQ'D	F5 LENGTHS VARY	F5 BAR SIZE	F5 SPACING	F5 NO. REQ'D	F5 LENGTHS
WING A	4	12	19	L	Min	2'-9"	-	-	-	L	-		-	-	-	L	-		4	18	6	Min	4	18	2	18'-8"
					Max	7'-5"																2'-10"				
				X	Min	0'-9"				X	-					X	-					Max				
					Max	1'-6"																16'-7"				
				Y	Min	2'-1"				Y	-					Y	-									
					Max	6'-0"																				
WING B	4	12	19	L	Min	2'-9"	-	-	-	L	-		-	-	-	L	-		4	18	6	Min	4	18	2	18'-8"
					Max	7'-5"																2'-10"				
				X	Min	0'-9"				X	-					X	-					Max				
					Max	1'-6"																16'-7"				
				Y	Min	2'-1"				Y	-					Y	-									
					Max	6'-0"																				

WING	F6 BAR SIZE	F6 SPACING	F6 NO. REQ'D	F6 LENGTHS VARY			F7 BAR SIZE	F7 NO. REQ'D	F7 LENGTHS	F8 BAR SIZE	F8 SPACING	F8 NO. REQ'D	F8 LENGTHS VARY	F9 BAR SIZE	F9 SPACING	F9 NO. REQ'D	F9 LENGTHS	F10 BAR SIZE	F10 NO. REQ'D	F10 LENGTHS	F11 BAR SIZE	F11 NO. REQ'D	F11 LENGTHS	F12 BAR SIZE	F12 SPACING	F12 NO. REQ'D	F12 LENGTHS		REINF. STEEL QTY. PER WING (LBS)
WING A	4	18	13	L	Min	3'-4"	4	6	20'-10"	6	18	13	Min	-	-	-	Min	4	2	19'-0"	4	2	20'-7"	6	12	5	L	3'-4"	398
					Max	7'-3"							1'-8"				-												
				X	Min	1'-4"																					X	1'-8"	
					Max	1'-4"							Max				Max												
				Y	Min	2'-1"							2'-5"				-												
					Max	6'-0"																							
WING B	4	18	13	L	Min	3'-4"	4	6	22'-11"	6	18	13	Min	-	-	-	Min	4	2	19'-0"	4	2	20'-7"	6	12	5	L	3'-4"	406
					Max	7'-3"							1'-8"				-												
				X	Min	1'-4"																					X	1'-8"	
					Max	1'-4"							Max				Max												
				Y	Min	2'-1"							2'-5"				-												
					Max	6'-0"																							

Min. Bar Lap Length	
#4	1'-9"
#5	2'-2"
#6	2'-7"
#7	3'-6"
#8	4'-7"

Bar Pin Dia. Table	
#4	3"
#5	3 3/4"
#6	4 1/2"
#7	5 1/4"
#8	6"

(1) Any Bar Lap Required for the Skewed End Section shall be considered subsidiary to the item "Reinforcing Steel - Roadway (Grade 60)."

OUTLET SKEWED END SECTION

SKEW (DEGREE) SK	SLOPE SL	DESIGN FILL DEPTH (FT.) D	CLEAR SPAN (FT.) S	CLEAR HEIGHT (FT.) H	SECTION LENGTH LL	TOP SLAB THK. T	HDWL DEPTH HD	BOTTOM SLAB THK. B	SIDE WALL THK. C	INTERIOR WALL THK. W	OVER ALL WIDTH OW	OVER ALL HEIGHT OH
11	4:1	2	10	5	5'-2"	13	3	13	6	8	32'-4"	7'-2"

TOP SLAB REINFORCING STEEL "a" SIZE	"a" SPACING	"a" LENGTHS VARY	"a" NO. REQ'D	"c" SIZE	"c" SPACING	"c" LENGTHS VARY	"c" NO. REQ'D
6	9	Max 32'-0" / Min 8'-0"	7	6	4	Max 32'-0" / Min 8'-0"	15
		32'-0"	3			32'-0"	6

BOTTOM SLAB REINFORCING STEEL "d" SIZE	"d" SPACING	"d" LENGTHS VARY	"d" NO. REQ'D	"f" SIZE	"f" SPACING	"f" LENGTHS VARY	"f" NO. REQ'D
4	9	Max 32'-0" / Min 8'-0"	7	4	8.5	Max 32'-0" / Min 8'-0"	7
		32'-0"	3			32'-0"	3

SIDE WALL REINFORCING STEEL "f0" SIZE	SPACING	NO. REQ'D	LENGTH
4	7	19	6'-10"

INTERIOR WALL REINFORCING STEEL "f1" SIZE	SPACING	NO. REQ'D	LENGTH
4	12	26	6'-10"

TOP SLAB DISTRIBUTION REINFORCING STEEL "g" SIZE	SPACING	NO. REQ'D	LENGTHS VARY
4	9	89	Max 8'-1" / Min 1'-10"

BOTTOM SLAB DISTRIBUTION REINFORCING STEEL "e" SIZE	SPACING	NO. REQ'D	LENGTHS VARY
4	9	89	Max 8'-1" / Min 1'-10"

SIDE WALL DISTRIBUTION REINFORCING STEEL "d1" SIZE	SPACING	NO. REQ'D	LENGTH
12		5	LONG 8'-1"
		5	SHORT 1'-11"

INTERIOR WALL DISTRIBUTION REINFORCING STEEL "d2" SIZE	SPACING	NO. REQ'D	LENGTH
4	12	10	LONG 6'-0"
		10	SHORT 3'-11"

CLASS "S" CONCRETE (Includes HDWL) CU. YDS.	(1) REINFORCING STEEL (GR 60) (Includes HDWL) LBS.
16.23	2610

"k1" HDWL BARS SIZE	LENGTH	NO. REQ'D
4	32'-7"	6

"k2" HDWL BARS SIZE	LENGTH	NO. REQ'D
4	32'-7"	6

"h" HDWL BARS SIZE	LENGTH	Y	NO. REQ'D
4	2'-0"	1'-0"	34

OUTLET SLOPE SECTION(S)

R.C. BOX SECTION	DESIGN FILL DEPTH (FT.) D	CLEAR SPAN (FT.) S	CLEAR HEIGHT (FT.) H	TOP SLAB THK. T	BOTTOM SLAB THK. B	SIDE WALL THK. C	INTERIOR WALL THK. W	OVER ALL WIDTH OW	OVER ALL HEIGHT OH	SECTION LENGTH (FT.) SL

LENGTH = OW - 4" + BENDS "a" SIZE	"a" L	Bent "b" SIZE	Bent "b" L	"c" SIZE	"c" L	SPACING	NO. REQ'D

BOTTOM SLAB REINFORCING STEEL LENGTH = OW - 4" + BENDS "d" SIZE	"d" L	Bent "b1" SIZE	Bent "b1" L	"f" SIZE	"f" L	SPACING	NO. REQ'D

SIDE WALL REINFORCING STEEL "f0" LENGTH = OH - 4" SIZE	SPACING	NO. REQ'D	LENGTH

INTERIOR WALL REINFORCING STEEL "f1" LENGTH = OH - 4" SIZE	SPACING	NO. REQ'D	LENGTH

TOP SLAB DISTRIBUTION REINFORCING STEEL "g" LENGTH = SL SIZE	SPACING	NO. REQ'D

BOTTOM SLAB DISTRIBUTION REINFORCING STEEL "e" LENGTH = SL SIZE	SPACING	NO. REQ'D

SIDE WALL DISTRIBUTION REINFORCING STEEL "d1" LENGTH = SL SIZE	SPACING	NO. REQ'D

INTERIOR WALL DISTRIBUTION REINFORCING STEEL "d2" LENGTH = SL SIZE	SPACING	NO. REQ'D

HDWL DEPTH HD	ADDITIONAL REINF. FOR HDWL LBS.

"h" HDWL BARS SIZE	Y	LENGTH	NO. REQ'D

CLASS "S" CONCRETE CU. YDS.	REINFORCING STEEL (GR. 60) LBS.
TOTAL	

The required number of bars and lengths shown are for estimating purpose only. The actual number and length required shall be determined in field.

Unless otherwise noted, all dimensions are in inches.

SHEET 2 OF 2
DETAILS OF R.C. BOX CULVERT
TRIPLE BARREL BOX CULVERT
STA. 68+11

SPECIAL DETAILS

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GARVER LLC No. 766 CERTIFICATE OF AUTHORIZATION ARKANSAS ENGINEERING

TABULAR DATA BY: AMW DATE: 07/14/2021
CHECKED BY: CMC DATE: 10/05/2021

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No.16145 CHARLES M. CULLEN

Digitally Signed 02/02/2022

REV.	DATE	DESCRIPTION	BY
1	02/02/22	SHORTENED BOX, REMOVED WINGWALL, ADJUST. TOP SLAB	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

SPECIAL DETAILS

JOB NO.: 18017190
DATE: FEBRUARY 2022
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER C-218

SHEET NUMBER 027

CMCullen 2/2/2022 1:11:50 PM
W:\WORKSPACE\Garver_2012
L:\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C217-SD-REV1-CO1.dgn

REFER TO SPECIAL PROVISION FOR INFORMATION REGARDING COMMON WALL DETAILS AND QUANTITES

INLET WINGWALL TABLE

OVER ALL WIDTH	CLEAR HEIGHT	FOOTING THK.	WING WALL THK.	BOX SKEW (DEG.)	SLOPE	HDWL LENGTH	HEEL	WALL HEIGHT AT HDWL	WALL HEIGHT AT WING END	WINGWALL ANGLE (DEGREE) WING A	WINGWALL ANGLE (DEGREE) WING B	FOOTING WIDTH AT WALL END	WIDTH OF WING FOOTINGS AT HDWL WING A	WIDTH OF WING FOOTINGS AT HDWL WING B	FOOTING DIMENSION PARALLEL WITH HDWL WING A	FOOTING DIMENSION PARALLEL WITH HDWL WING B	LENGTH OF WINGWALLS WING A	LENGTH OF WINGWALLS WING B	LENGTH OF FOOTING HEEL WING A	LENGTH OF FOOTING HEEL WING B	CLASS "S" CONCRETE (Includes apron) INLET	REINFORCING STEEL (Includes apron and laps if required) INLET
OW	H	WB	CW	SK	SL	K	HL	WH1	WH2	AF1	AF2	WE	WF1	WF2	G1	G2	W1	W2	W3	W4	CU.YD	LBS.
13'-4"	10'-0"	0'-11"	0'-10"	11	4:1	12'-2 3/4"	2'-0"	10'-10"	3'-4"	20	20	3'-4"	5'-2 7/8"	5'-2 7/8"	2'-2 3/8"	2'-2 3/8"	31'-6"	31'-6"	34'-11"	45'-1 1/2"	13.87	1102

WING	F1 BAR SIZE	F1 MAX. SPACING	F1 NO. REQ'D	F1 LENGTHS VARY			F2 BAR SIZE	F2 SPACING	F2 NO. REQ'D	F2 LENGTHS	F3 BAR SIZE	F3 SPACING	F3 NO. REQ'D	F3 LENGTHS	F4 BAR SIZE	F4 SPACING	F4 NO. REQ'D	F4 LENGTHS VARY	F5 BAR SIZE	F5 SPACING	F5 NO. REQ'D	F5 LENGTHS
WING A	4	12	32	L	Min	4'-8"	5	12	5	L 7'-5"	4	12	9	L 5'-8"	4	18	10	Min	4	18	4	31'-2"
					Max	13'-11"												4'-9"				
				X	Min	0'-11"				X 2'-7"				X 2'-1"				Max				
					Max	2'-10"												29'-11"				
				Y	Min	3'-10"				Y 4'-11"				Y 3'-8"								
					Max	11'-2"																
WING B	4	12	32	L	Min	4'-8"	5	12	5	L 7'-5"	4	12	9	L 5'-8"	4	18	10	Min	4	18	4	31'-2"
					Max	13'-11"												4'-9"				
				X	Min	0'-11"				X 2'-7"				X 2'-1"				Max				
					Max	2'-10"												29'-11"				
				Y	Min	3'-10"				Y 4'-11"				Y 3'-8"								
					Max	11'-2"																

WING	F6 BAR SIZE	F6 SPACING	F6 NO. REQ'D	F6 LENGTHS VARY			F7 BAR SIZE	F7 NO. REQ'D	F7 LENGTHS	F8 BAR SIZE	F8 SPACING	F8 NO. REQ'D	F8 LENGTHS VARY	F9 BAR SIZE	F9 SPACING	F9 NO. REQ'D	F9 LENGTHS	F10 BAR SIZE	F10 NO. REQ'D	F10 LENGTHS	F11 BAR SIZE	F11 NO. REQ'D	F11 LENGTHS	F12 BAR SIZE	F12 SPACING	F12 NO. REQ'D	F12 LENGTHS		REINF. STEEL QTY. PER WING (LBS)
WING A	4	18	21	L	Min	6'-6"	4	8	35'-9"	6	18	21	Min	4	18	2	Min	4	2	31'-11"	4	2	33'-4"	6	12	10	L	3'-4"	1102
					Max	13'-7"							2'-10"				26'-6"												
				X	Min	2'-6"																					X	1'-8"	
					Max	2'-6"							Max				Max												
				Y	Min	4'-1"							4'-8"				26'-6"												
					Max	11'-2"																							
WING B	4	18	21	L	Min	6'-6"	4	8	46'-0"	6	18	21	Min	4	18	2	Min	4	2	31'-11"	4	2	33'-4"	6	12	10	L	3'-4"	0
					Max	13'-7"							2'-10"				26'-6"												
				X	Min	2'-6"																					X	1'-8"	
					Max	2'-6"							Max				Max												
				Y	Min	4'-1"							4'-8"				26'-6"												
					Max	11'-2"																							

INLET SKEWED END SECTION

SKEW (DEGREE)	SLOPE	DESIGN FILL DEPTH (FT.)	CLEAR SPAN (FT.)	CLEAR HEIGHT (FT.)	SECTION LENGTH	TOP SLAB THICKNESS	BOTTOM SLAB THK.	SIDE WALL THICKNESS	HEADWALL DEPTH	OVER ALL WIDTH	OVER ALL HEIGHT	TOP SLAB REINFORCING STEEL "a" SIZE	"a" SPACING	"a" LENGTHS VARY	"a" NO. REQ'D	BOTTOM SLAB REINFORCING STEEL "b" SIZE	"b" SPACING	"b" LENGTHS VARY	"b" NO. REQ'D	SIDE WALL REINFORCING STEEL "f" SIZE	"f" SPACING	"f" NO. REQ'D	"f" LENGTH	TOP SLAB DISTRIBUTION REINFORCING STEEL "d" SIZE	"d" SPACING	"d" NO. REQ'D	"d" LENGTHS VARY	BOTTOM SLAB DISTRIBUTION REINFORCING STEEL "e" SIZE	"e" SPACING	"e" NO. REQ'D	"e" LENGTHS VARY	SIDE WALL DISTRIBUTION REINFORCING STEEL "d1" SIZE	"d1" SPACING	"d1" NO. REQ'D	"d1" LENGTH	HEADWALL REINFORCING STEEL "k1", "k2" & "h" BAR	SIZE	NO. REQ'D	LENGTH	CLASS "S" CONCRETE (Includes HDWL) CU. YDS.	REINFORCING STEEL (GR. 60) (Includes HDWL) LBS.
SK	SL	D	S	H	LL	T	B	C	HD	OW	OH																															
11	4:1	5	12	10	3'-4"	11	11	8	3	13'-4"	11'-10"	8	7.5	Min 8'-2" / Max 13'-0"	2	8	8.5	Min 8'-2" / Max 13'-0"	2	6	6.5	13	11'-6"	4	10	16	Min 1'-10" / Max 4'-5"	4	10	16	Min 1'-10" / Max 4'-5"	4	12	10	LONG 4'-5" / SHORT 1'-10"	"k1"	4	6	13'-3"	4.88	814
														Min 8'-2" / Max 13'-0"	4			Min 8'-2" / Max 13'-0"	3																	"k2"	4	6	13'-3"		
																																					"h"	4	15	1'-10" / Y 0'-10"		

INLET SLOPE SECTION(S)

R.C. BOX SECTION	DESIGN FILL DEPTH (FT.)	CLEAR SPAN (FT.)	CLEAR HEIGHT (FT.)	TOP SLAB THICKNESS	BOTTOM SLAB THK.	SIDE WALL THICKNESS	OVER ALL WIDTH	OVER ALL HEIGHT	SECTION LENGTH (FT.)	TOP SLAB REINFORCING STEEL "a" LENGTH = OW - 4" SIZE	"a" SPACING	"a" NO. REQ'D	"a" LENGTH	BOTTOM SLAB REINFORCING STEEL "b" LENGTH = OW - 4" SIZE	"b" SPACING	"b" NO. REQ'D	"b" LENGTH	SIDE WALL REINFORCING STEEL "f" LENGTH = OH - 4" SIZE	"f" SPACING	"f" NO. REQ'D	"f" LENGTH	TOP SLAB DISTRIBUTION REINF. STEEL "d" LENGTH = SL SIZE	"d" SPACING	"d" NO. REQ'D	BOTTOM SLAB DISTRIBUTION REINF. STEEL "e" LENGTH = SL SIZE	"e" SPACING	"e" NO. REQ'D	SIDE WALL DISTRIBUTION REINF.STEEL "d1" LENGTH = SL SIZE	"d1" SPACING	"d1" NO. REQ'D	CLASS "S" CONCRETE CU. YDS.	REINFORCING STEEL (GR. 60) LBS.
D	S	H	T	B	C	OW	OH	SL																								

HDWL DEPTH HD	ADDITIONAL REINF. FOR HDWL LBS	"h" HDWL BARS SIZE	Y	LENGTH	NO. REQ'D

	TOTAL	

MID-SECTION

R.C. BOX SECTION	DESIGN FILL DEPTH (FT.)	CLEAR SPAN (FT.)	CLEAR HEIGHT (FT.)	TOP SLAB THK.	BOTTOM SLAB THK.	SIDE WALL THK	OVER ALL WIDTH	OVER ALL HEIGHT	SECTION LENGTH (FT.)	TOP SLAB REINFORCING STEEL "a" LENGTH = OW - 4" SIZE	"a" SPACING	"a" NO. REQ'D	"a" LENGTH	BOTTOM SLAB REINFORCING STEEL "b" LENGTH = OW - 4" SIZE	"b" SPACING	"b" NO. REQ'D	"b" LENGTH	SIDE WALL REINFORCING STEEL "f" LENGTH = OH - 4" SIZE	"f" SPACING	"f" NO. REQ'D	"f" LENGTH	TOP SLAB DISTRIBUTION REINF. STEEL "d" LENGTH = SL SIZE	"d" SPACING	"d" NO. REQ'D	BOTTOM SLAB DISTRIBUTION REINF. STEEL "e" LENGTH = SL SIZE	"e" SPACING	"e" NO. REQ'D	SIDE WALL DISTRIBUTION REINF. STEEL "d1" LENGTH = SL SIZE	"d1" SPACING	"d1" NO. REQ'D	CLASS "S" CONCRETE CU. YDS.	REINFORCING STEEL (Gr. 60) LBS.
D	S	H	T	B	C	OW	OH	SL																								
A	5	12	10	11	11	8	13'-4"	11'-10"	113.67	8	7.5	181	13'-0"	8	8.5	160	13'-0"	6	6.5	418	11'-6"	4	10	16	4	10	16	4	12	20	159.04	29202

Min. Bar Lap Length	
#4	1'-9"
#5	2'-2"
#6	2'-7"
#7	3'-6"
#8	4'-7"

Bar Pin Dia. Table	
#4	3"
#5	3 3/4"
#6	4 1/2"
#7	5 1/4"
#8	6"

Design Fill Depth	Range of Actual Fill Depth
2	0.0 ft - 2.0 ft
5	>2.0 ft - 5.0 ft
10	>5.0 ft - 10.0 ft
15	>10.0 ft - 15.0 ft
20	>15.0 ft - 20.0 ft
25	>20.0 ft - 25.0 ft
30	>25.0 ft - 30.0 ft
35	>30.0 ft - 35.0 ft
40	>35.0 ft - 40.0 ft

Data shown for Mid-Section, Slope Section(s), and Skewed End Section is based on the design fill depth shown in the table, see PLAN AND PROFILE SHEETS for actual fill depth.

MID-SECTION BAR LAP TABLE

# of Long. Laps Req'd.	SL = Section Length
0	< 40.0 ft
1	>40.0 ft - 78.0 ft
2	>78.0 ft - 116.0 ft
3	>116.0 ft - 154.0 ft
4	>154.0 ft - 192.0 ft
5	>192.0 ft - 230.0 ft
6	>230.0 ft - 268.0 ft
7	>268.0 ft - 306.0 ft
8	>306.0 ft -344.0 ft

This drawing to be used in conjunction with
SHEET 1 OF 4, "GENERAL DETAILS OF R.C. BOX CULVERT", 'GENERAL NOTES & LONGITUDINAL SECTION LENGTH SCHEDULE',
SHEET 2 OF 4, "GENERAL DETAILS OF R.C. BOX CULVERT", 'DETAILS OF SINGLE-BARREL R.C. BOX CULVERT',
SHEET 4 OF 4, "GENERAL DETAILS OF R.C. BOX CULVERT", 'DETAILS OF WINGWALLS', and
STANDARD DRAWING RCB-2.

For additional information and outlet sections, see Sheet 2 of 2.

① Any Bar Lap Required for the Skewed End Section shall be considered subsidiary to the item "Reinforcing Steel - Roadway (Grade 60)."

TABULAR DATA BY: AMW DATE: 07/14/2021
CHECKED BY: CMC DATE: 10/05/2021

SHEET 1 OF 2
DETAILS OF R.C. BOX CULVERT
SINGLE BARREL BOX CULVERT
STA. 68+26

SPECIAL DETAILS

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GARVER LLC No. 766 CERTIFICATE OF AUTHORIZATION ARKANSAS ENGINEER

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No.16145 CHARLES M. CULLEN
Digitally Signed 02/02/2022

REV.	DATE	DESCRIPTION	BY
1	02/02/22	REVISED BOX CULVERT	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS
JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

SPECIAL DETAILS

JOB NO.: 18017190
DATE: FEBRUARY 2022
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER C-219
SHEET NUMBER 028

CMCullen 2/2/2022 1:12:00 PM
WORKSPACE:Garver_2012
L:\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C219-SD-REV1-CO1.dgn

REFER TO SPECIAL PROVISION FOR INFORMATION REGARDING COMMON WALL DETAILS AND QUANTITES

OUTLET WINGWALL TABLE

OVER ALL WIDTH	CLEAR HEIGHT	FOOTING THK.	WING WALL THK.	BOX SKEW (DEG.)	SLOPE	HDWL LENGTH	HEEL	WALL HEIGHT AT HDWL	WALL HEIGHT AT WING END	WINGWALL ANGLE (DEGREE) WING A	WINGWALL ANGLE (DEGREE) WING B	FOOTING WIDTH AT WALL END	WIDTH OF WING FOOTINGS AT HDWL WING A	WIDTH OF WING FOOTINGS AT HDWL WING B	FOOTING DIMENSION PARALLEL WITH HDWL WING A	FOOTING DIMENSION PARALLEL WITH HDWL WING B	LENGTH OF WINGWALLS WING A	LENGTH OF WINGWALLS WING B	LENGTH OF FOOTING HEEL WING A	LENGTH OF FOOTING HEEL WING B	CLASS "S" CONCRETE (Includes apron) OUTLET	REINFORCING STEEL (Includes apron and laps if required) OUTLET
OW	H	WB	CW	SK	SL	K	HL	WH1	WH2	AF1	AF2	WE	WF1	WF2	G1	G2	W1	W2	W3	W4	CU.YD	LBS.
13'-4"	10'-0"	0'-11"	0'-10"	11	4:1	12'-2 3/4"	2'-0"	10'-10"	3'-4"	30	30	3'-4"	5'-3 1/8"	5'-3 1/8"	2'-2 3/4"	2'-2 3/4"	34'-6"	34'-6"	36'-8 7/8"	40'-8 1/8"	16.32	1227

WING	F1 BAR SIZE	F1 MAX. SPACING	F1 NO. REQ'D	F1 LENGTHS VARY			F2 BAR SIZE	F2 SPACING	F2 NO. REQ'D	F2 LENGTHS	F3 BAR SIZE	F3 SPACING	F3 NO. REQ'D	F3 LENGTHS	F4 BAR SIZE	F4 SPACING	F4 NO. REQ'D	F4 LENGTHS VARY	F5 BAR SIZE	F5 SPACING	F5 NO. REQ'D	F5 LENGTHS	F6 BAR SIZE	F6 SPACING	F6 NO. REQ'D	F6 LENGTHS VARY			F7 NO. REQ'D	F7 LENGTHS	F8 BAR SIZE	F8 SPACING	F8 NO. REQ'D	F8 LENGTHS VARY	F9 BAR SIZE	F9 SPACING	F9 NO. REQ'D	F9 LENGTHS	F10 BAR SIZE	F10 NO. REQ'D	F10 LENGTHS	F11 BAR SIZE	F11 NO. REQ'D	F11 LENGTHS	F12 BAR SIZE	F12 SPACING	F12 NO. REQ'D	F12 LENGTHS		REINF. STEEL QTY. PER WING (LBS)
WING A	4	12	35	L	Min	4'-6"	5	12	5	L 7'-5"	4	12	10	L 5'-8"	4	18	10	Min	4	18	4	34'-2"	4	18	23	L	Min	6'-5"	4	8	37'-7"	6	18	24	Min	4	18	2	29'-0"	4	2	34'-10"	4	2	36'-10"	6	12	10	L 3'-4"		0
				X	Max	13'-11"												5'-2"									Max	13'-7"							2'-10"				Max								X 1'-8"		
					Min	0'-11"				X 2'-1"				X 2'-1"												Min	2'-6"																				
					Max	2'-10"																					Max	2'-6"																				
				Y	Min	3'-10"				Y 4'-11"				Y 3'-8"				32'-10"								Min	4'-0"							4'-9"														
					Max	11'-2"																				Max	11'-2"																				
WING B	4	12	35	L	Min	4'-6"	5	12	5	L 7'-5"	4	12	10	L 5'-8"	4	18	10	Min	4	18	4	34'-2"	4	18	23	L	Min	6'-5"	4	8	41'-6"	6	18	24	Min	4	18	2	29'-0"	4	2	34'-10"	4	2	36'-10"	6	12	10	L 3'-4"		1227
				X	Max	13'-11"												5'-2"									Max	13'-7"							2'-10"				Max								X 1'-8"		
					Min	0'-11"				X 2'-1"				X 2'-1"												Min	2'-6"																				
					Max	2'-10"																					Max	2'-6"																				
				Y	Min	3'-10"				Y 4'-11"				Y 3'-8"				32'-10"								Min	4'-0"							4'-9"														
					Max	11'-2"																					Max	11'-2"																				

OUTLET SKEWED END SECTION

SKEW (DEGREE)	SLOPE	DESIGN FILL DEPTH (FT.)	CLEAR SPAN (FT.)	CLEAR HEIGHT (FT.)	SECTION LENGTH	TOP SLAB THICKNESS	BOTTOM SLAB THK.	SIDE WALL THICKNESS	HEADWALL DEPTH	OVER ALL WIDTH	OVER ALL HEIGHT	TOP SLAB REINFORCING STEEL "a" SIZE	"a" SPACING	"a" LENGTHS VARY	"a" NO. REQ'D	BOTTOM SLAB REINFORCING STEEL "b" SIZE	"b" SPACING	"b" LENGTHS VARY	"b" NO. REQ'D	SIDE WALL REINFORCING STEEL "f" SIZE	"f" SPACING	"f" NO. REQ'D	"f" LENGTH	TOP SLAB DISTRIBUTION REINFORCING STEEL "d" SIZE	"d" SPACING	"d" NO. REQ'D	"d" LENGTHS VARY	BOTTOM SLAB DISTRIBUTION REINFORCING STEEL "e" SIZE	"e" SPACING	"e" NO. REQ'D	"e" LENGTHS VARY	SIDE WALL DISTRIBUTION REINFORCING STEEL "d1" SIZE	"d1" SPACING	"d1" NO. REQ'D	"d1" LENGTH	HEADWALL REINFORCING STEEL "k1", "k2" & "h" BAR	"k1", "k2" & "h" SIZE	"k1", "k2" & "h" NO. REQ'D	"k1", "k2" & "h" LENGTH	CLASS "S" CONCRETE (Includes HDWL)	① REINFORCING STEEL (GR. 60) (Includes HDWL)
SK	SL	D	S	H	LL	T	B	C	HD	OW	OH	SIZE	SPACING	LENGTHS VARY	NO. REQ'D	SIZE	SPACING	LENGTHS VARY	NO. REQ'D	SIZE	SPACING	NO. REQ'D	LENGTH	SIZE	SPACING	NO. REQ'D	LENGTHS VARY	SIZE	SPACING	NO. REQ'D	LENGTHS VARY	SIZE	SPACING	NO. REQ'D	LENGTHS VARY	SIZE	SPACING	NO. REQ'D	LENGTH	BAR	SIZE	NO. REQ'D	LENGTH	CU. YDS.	LBS.
11	4:1	5	12	10	3'-4"	11	11	8	3	13'-4"	11'-10"	8	7.5	Max 13'-0" / Min 8'-2"	2 / 4	8	8.5	Max 13'-0" / Min 8'-2"	2 / 3	6	6.5	13	11'-6"	4	10	16	Max 4'-5" / Min 1'-10"	4	10	16	Max 4'-5" / Min 1'-10"	4	12	10	LONG 4'-5" / SHORT 1'-10"	"k1"	4	6	13'-3"					4.88	814
																																						"k2"	4	6	13'-3"						
																																						"h"	4	15	1'-10" / Y / 0'-10"						

OUTLET SLOPE SECTION(S)

R.C. BOX SECTION	DESIGN FILL DEPTH (FT.)	CLEAR SPAN (FT.)	CLEAR HEIGHT (FT.)	TOP SLAB THICKNESS	BOTTOM SLAB THK.	SIDE WALL THICKNESS	OVER ALL WIDTH	OVER ALL HEIGHT	SECTION LENGTH (FT.)	TOP SLAB REINFORCING STEEL "a" LENGTH = OW - 4" SIZE	SPACING	NO. REQ'D	LENGTH	BOTTOM SLAB REINFORCING STEEL "b" LENGTH = OW - 4" SIZE	SPACING	NO. REQ'D	LENGTH	SIDE WALL REINFORCING STEEL "f" LENGTH = OH - 4" SIZE	SPACING	NO. REQ'D	LENGTH	TOP SLAB DISTRIBUTION REINF. STEEL "d" LENGTH = SL SIZE	SPACING	NO. REQ'D	BOTTOM SLAB DISTRIBUTION REINF. STEEL "e" LENGTH = SL SIZE	SPACING	NO. REQ'D	SIDE WALL DISTRIBUTION REINF. STEEL "d1" LENGTH = SL SIZE	SPACING	NO. REQ'D	CLASS "S" CONCRETE CU. YDS.	REINFORCING STEEL (GR. 50) LBS.
D	S	H	T	B	C	OW	OH	SL																											
HDWL DEPTH HD	ADDITIONAL REINF. FOR HDWL LBS	"h" HDWL BARS SIZE	Y	LENGTH	NO. REQ'D	TOTAL																													

Min. Bar Lap Length	
#4	1'-9"
#5	2'-2"
#6	2'-7"
#7	3'-6"
#8	4'-7"

Bar Pin Dia. Table	
#4	3"
#5	3 3/4"
#6	4 1/2"
#7	5 1/4"
#8	6"

① Any Bar Lap Required for the Skewed End Section shall be considered subsidiary to the item "Reinforcing Steel - Roadway (Grade 60)."

The required number of bars and lengths shown are for estimating purpose only. The actual number and length required shall be determined in field.

Unless otherwise noted, all dimensions are in inches.

TABULAR DATA BY: AMW DATE: 07/14/2021
CHECKED BY: CMC DATE: 10/05/2021

SHEET 2 OF 2
DETAILS OF R.C. BOX CULVERT
SINGLE BARREL BOX CULVERT
STA. 68+26

SPECIAL DETAILS

GARVER
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CERTIFICATE OF AUTHORIZATION ARKANSAS ENGINEER GARVER LLC No. 766

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No.16145 CHARLES M. CULLEN

Digitally Signed 02/02/2022

REV.	DATE	DESCRIPTION	BY
1	02/02/22	REVISED BOX CULVERT	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

SPECIAL DETAILS

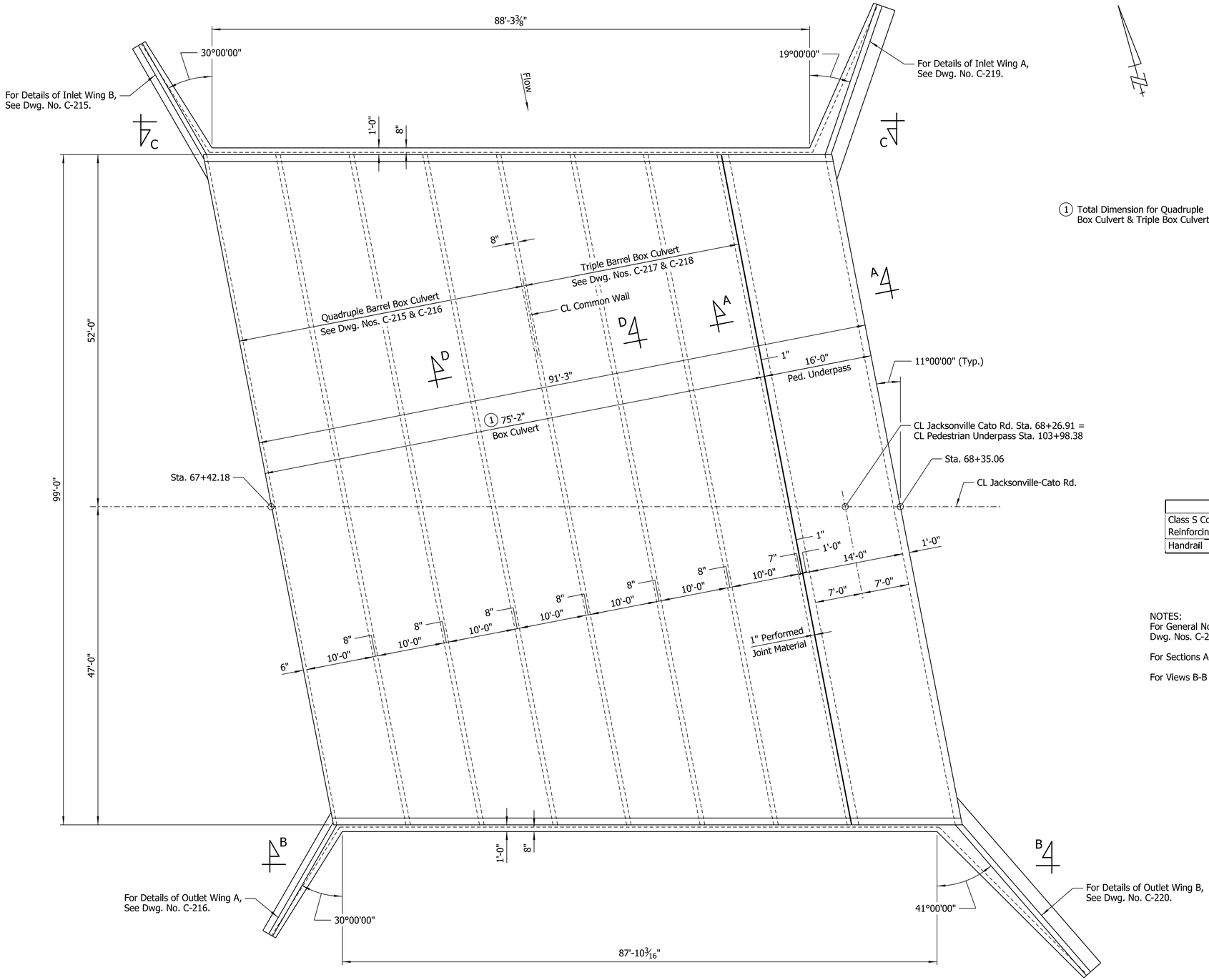
JOB NO.: 18017190
DATE: FEBRUARY 2022
DESIGNED BY: CMC
DRAWN BY: AMW

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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER C-220

SHEET NUMBER 029

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WORKSPACE:Garver_2012
L:\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C219-SD-REV1-CO1.dgn
Ver. 1.1 17FILENAME



1 Total Dimension for Quadruple Box Culvert & Triple Box Culvert

Quantities	
Class S Concrete	249.65 Cu. Yds.
Reinforcing Steel	40,435 Lbs.
Handrail	186 Lin. Ft.

NOTES:
For General Notes and General Details, see Dwg. Nos. C-211 to C-214.

For Sections A-A & D-D, see Dwg. No. C-222.

For Views B-B & C-C, see Dwg. No. C-223.

PLAN OF BOX CULVERT AND PEDESTRIAN UNDERPASS

Scale: ⅛" = 1'-0"

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CERTIFICATE OF AUTHORIZATION
GARVER LLC
No. 766
ARKANSAS-ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.8658
WILLIAM M. McENTIRE
Digitally Signed 2/02/2022

REV.	DATE	DESCRIPTION	BY
1	02/02/22	ISSUED SHEET	WMM

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

BOX CULVERT

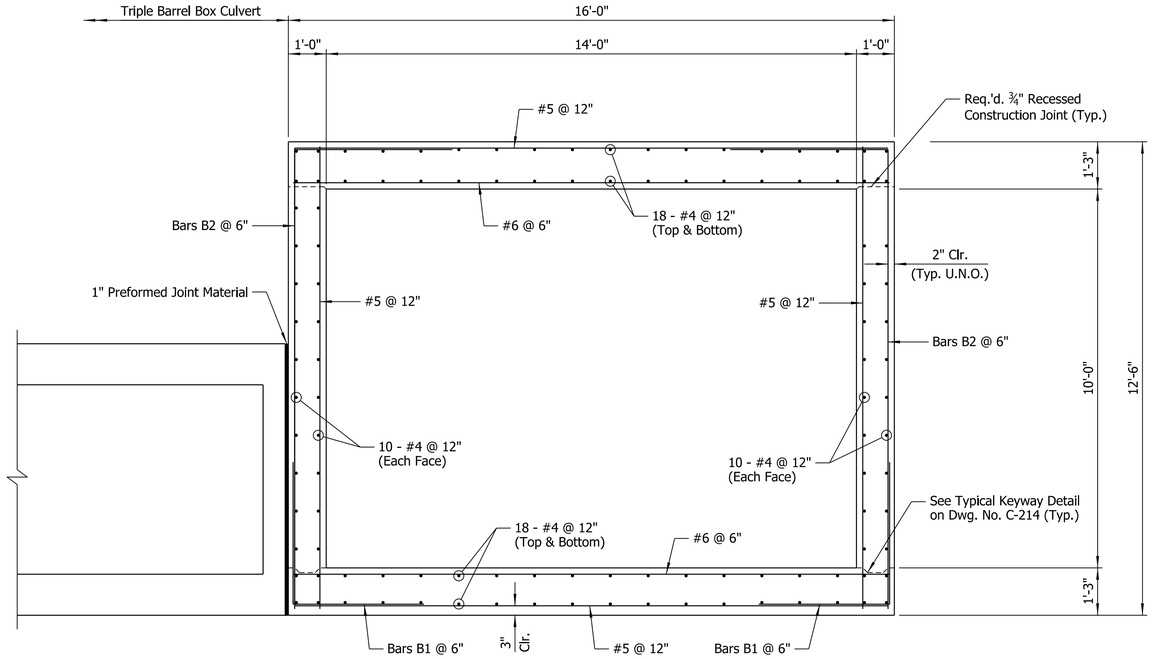
JOB NO.: 18017190
DATE: JANUARY 2022
DESIGNED BY: WMM
DRAWN BY: CWT

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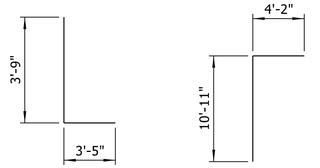
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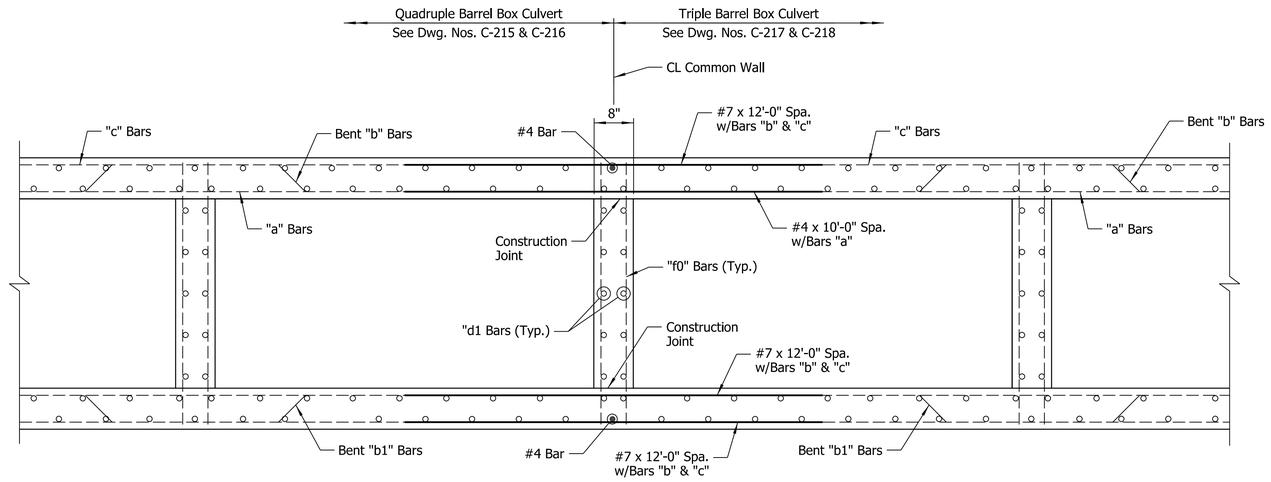


SECTION A-A

Scale: ½" = 1'-0"



NOTES:
For General Notes and General Details, see Dwg. Nos. C-211 to C-214.



SECTION D-D

Scale: ½" = 1'-0"

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CERTIFICATE OF AUTHORIZATION
GARVER LLC
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ARKANSAS ENGINEER

STATE OF ARKANSAS
William M. McEntire
LICENSED PROFESSIONAL ENGINEER
No.8658
WILLIAM M. McENTIRE

Digitally Signed 2/02/2022

REV.	DATE	DESCRIPTION	BY
1	02/02/21	ISSUED SHEET	WMM

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

BOX CULVERT

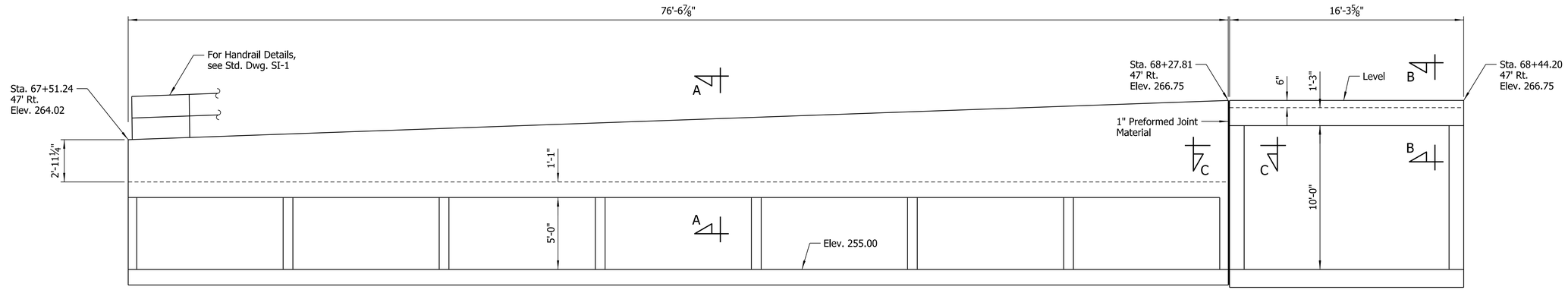
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DATE: JANUARY 2022
DESIGNED BY: WMM
DRAWN BY: CWT

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DRAWING NUMBER
C-222

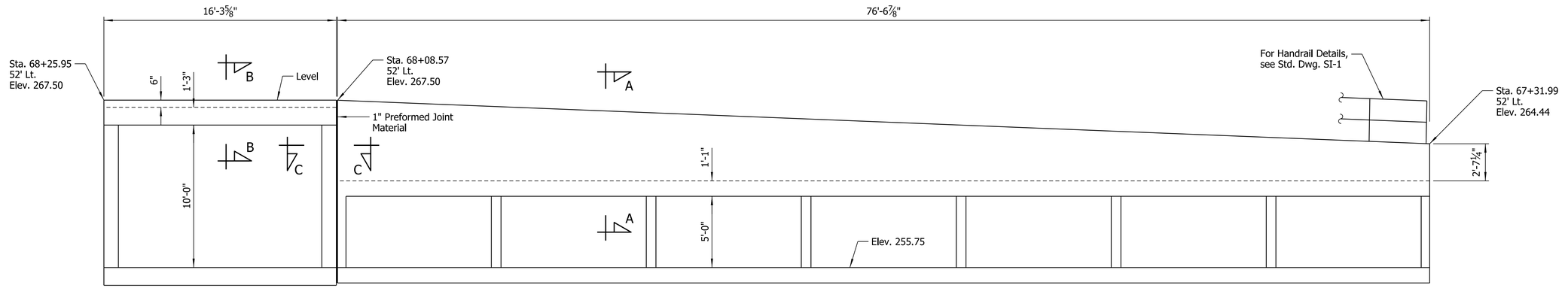
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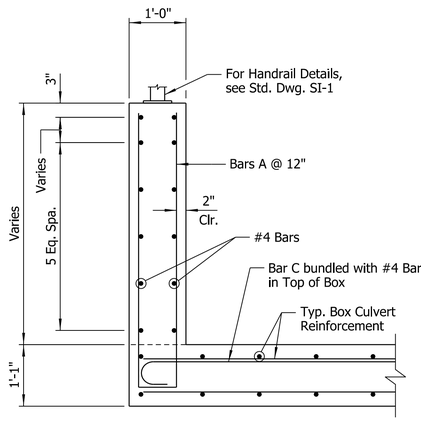
VIEW B-B

Scale: ¼" = 1'-0"



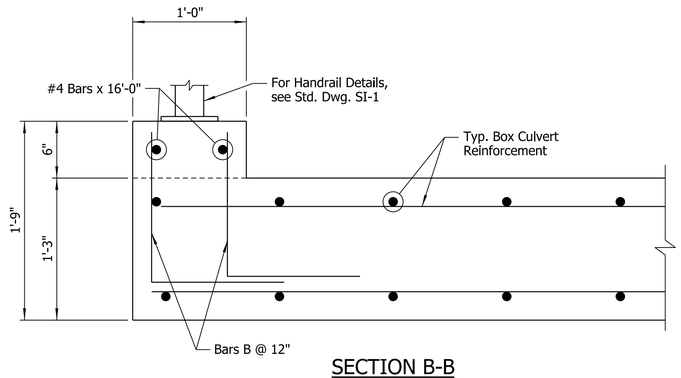
VIEW C-C

Scale: ¼" = 1'-0"



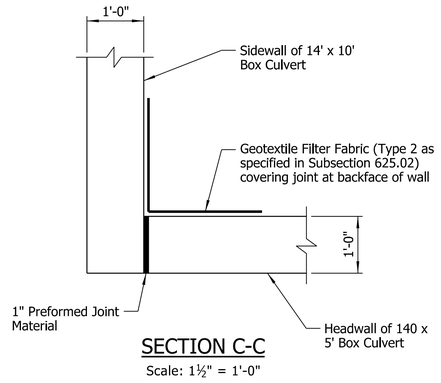
SECTION A-A

Scale: ¾" = 1'-0"



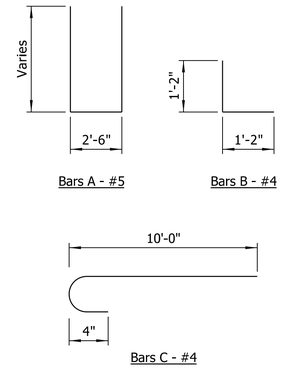
SECTION B-B

Scale: 1½" = 1'-0"



SECTION C-C

Scale: 1½" = 1'-0"



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ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.8658
WILLIAM M. McENTIRE
Digitally Signed 2/02/2022

REV.	DATE	DESCRIPTION	BY
1	02/02/22	ISSUED SHEET	WMM

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

BOX CULVERT

JOB NO.: 18017190
DATE: JANUARY 2022
DESIGNED BY: WMM
DRAWN BY: CWT

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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DRAWING NUMBER
C-223

SHEET NUMBER **029C**

CMCullen 2/1/2022 1:38:39 PM
WORKSPACE\Garver_2012
L:\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C223-SD-CO1.dgn

EROSION CONTROL NOTES:

1. THE SYMBOLS SHOWN IN THE SHEET REPRESENT EROSION CONTROL DEVICES AS DETAILED IN THE ARDOT STANDARD ROADWAY DRAWINGS. THE SYMBOLS ARE NOT TO SCALE AND REPRESENT THE GENERAL LOCATION TO WHICH THE DEVICES SHALL BE PLACED. NO WORK OR EROSION CONTROL DEVICES SHALL BE PLACED OUTSIDE THE PERMANENT OR TEMPORARY CONSTRUCTION EASEMENTS.
2. ALL DISTURBED AREAS CONTAINING EXPOSED SOIL SHALL RECEIVE TEMPORARY EROSION AND SEDIMENT CONTROL APPLICATIONS. CONTRACTOR MAY CHOOSE TO UTILIZE ALTERNATIVE EROSION CONTROL PRODUCTS SUCH AS ROLLED FIBER BARRIERS AS APPROVED BY THE ENGINEER.
3. SILT FENCE AND ROLLED FIBER BARRIERS SHALL BE PLACED PRIOR TO THE CLEARING AND GRUBBING OPERATIONS.
4. SEE ARDOT STANDARD DRAWING TEC-1 FOR TEMPORARY EROSION CONTROL DEVICES.
5. POST-GRADING SLOPES WILL NOT BE SIGNIFICANTLY STEEPER THAN EXISTING GRADES.
6. LOCATION OF OFFSITE STORAGE OF MATERIALS IS TO BE DETERMINED BY THE CONTRACTOR. THE SWPPP WILL BE UPDATED ACCORDINGLY.
7. PAVED CONSTRUCTION ENTRANCES/EXITS EXIST ALONG THE PROPOSED ROUTE.

SEQUENCE OF CONSTRUCTION OF E & SC FEATURES

1. INSTALL ROLLED FIBER BARRIERS / SILT FENCE.
2. CLEAR / GRUB ACTIVITIES.
3. INSTALL DITCH CHECKS.

EROSION CONTROL MEASURES TO BE PLACED DURING APPROPRIATE STAGES AS REQUIRED FOR SEDIMENT AND EROSION CONTROL. THESE DEVICES SHALL BE LEFT IN PLACE AS LONG AS REQUIRED TO CONTROL EROSION.

REVISION BOX

DATE OF REVISION	REVISION

LEGEND

270	EXISTING CONTOUR
270	PROPOSED CONTOUR
	DRAINAGE FLOW DIRECTION
SILT	SILT FENCE
	DISTURBED AREA BOUNDARY
TOB	TOP OF BANK
TOS	TOE OF SLOPE
E-5	SAND BAG DITCH CHECK
E-6	ROCK DITCH CHECK
E-7	DROP INLET SILT FENCE
CW	CONCRETE WASHOUT AREA

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CERTIFICATE OF AUTHORIZATION
GARVER LLC No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 10/12/2021

REV.	DATE	DESCRIPTION	BY

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TEMPORARY EROSION CONTROL NOTES, LEGEND, AND REVISION BOX

JOB NO.: 18017190
DATE: OCT. 2021
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
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DRAWING NUMBER
C-301

SHEET NUMBER **030**

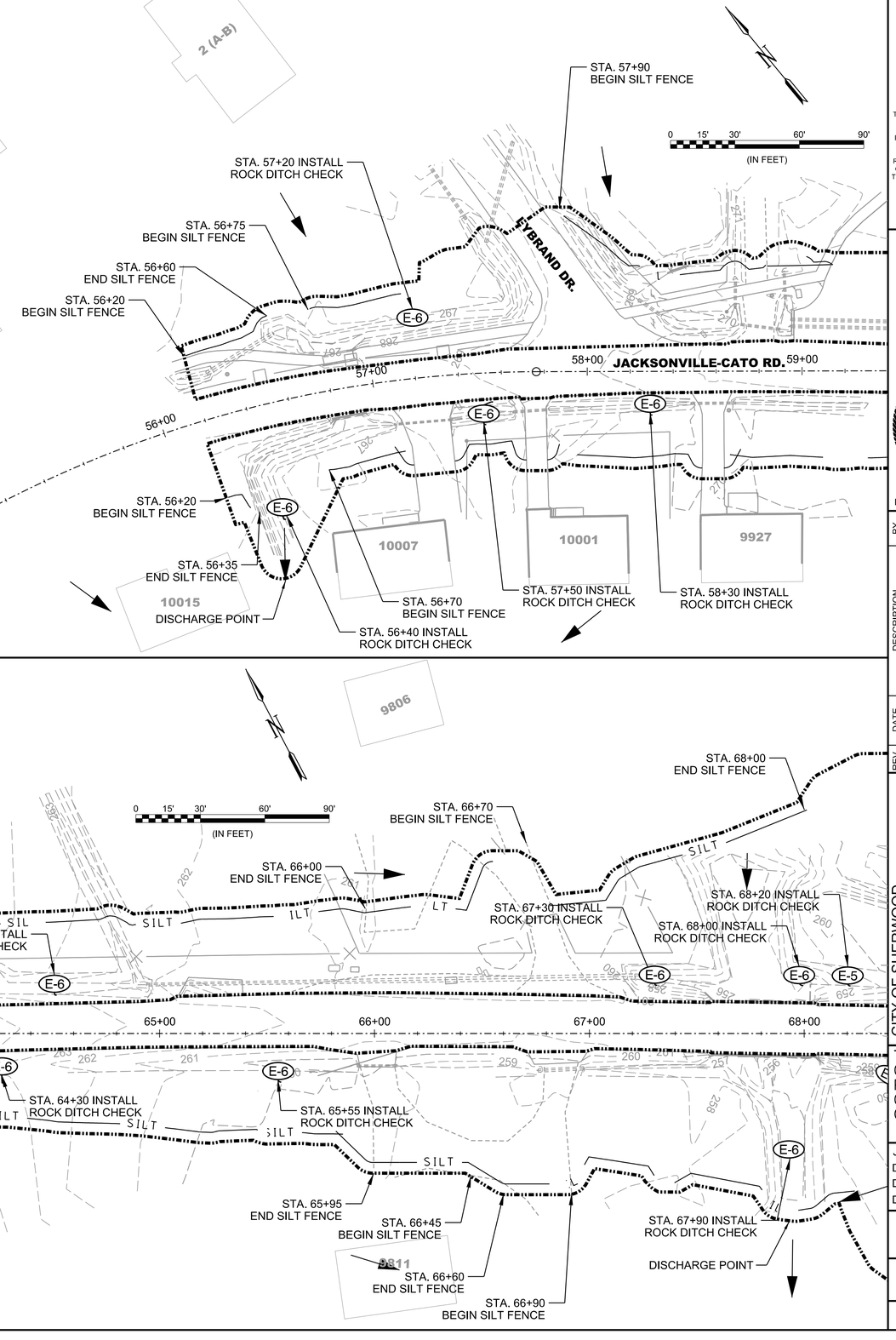
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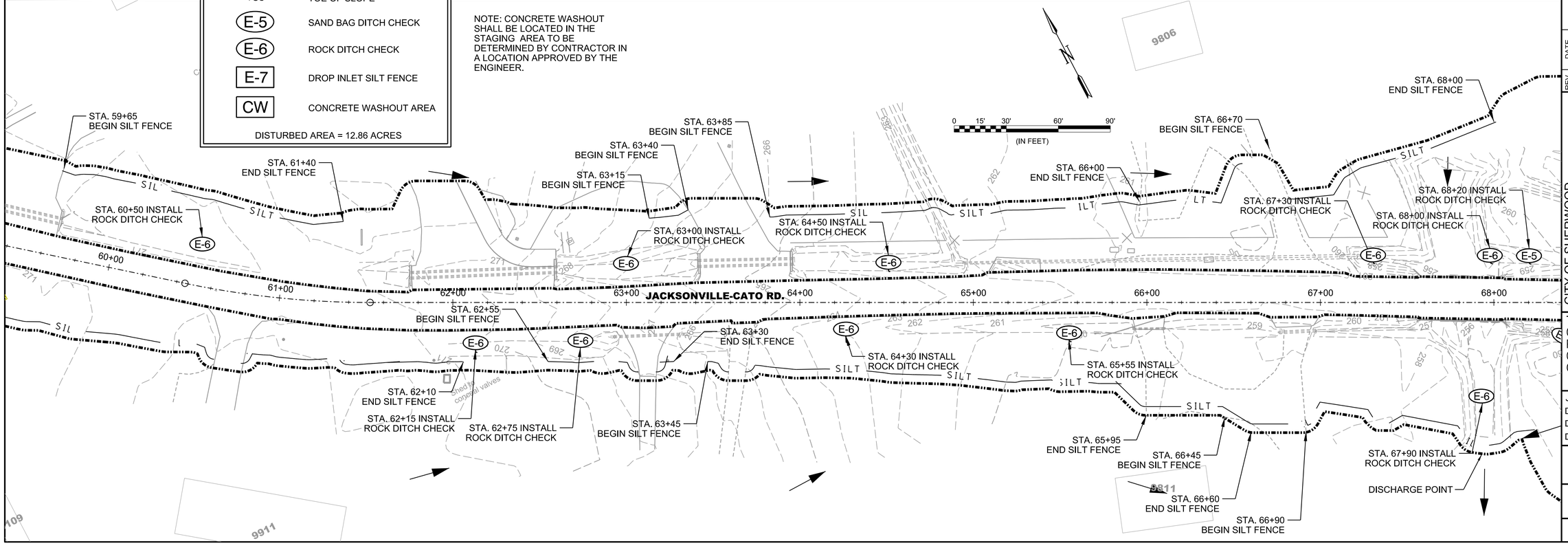
LEGEND

270	EXISTING CONTOUR
270	PROPOSED CONTOUR
	DRAINAGE FLOW DIRECTION
SILT	SILT FENCE
	DISTURBED AREA BOUNDARY
TOB	TOP OF BANK
TOS	TOE OF SLOPE
E-5	SAND BAG DITCH CHECK
E-6	ROCK DITCH CHECK
E-7	DROP INLET SILT FENCE
CW	CONCRETE WASHOUT AREA

DISTURBED AREA = 12.86 ACRES

NOTE: CONCRETE WASHOUT SHALL BE LOCATED IN THE STAGING AREA TO BE DETERMINED BY CONTRACTOR IN A LOCATION APPROVED BY THE ENGINEER.





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ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	10/27/2021	REISSUED SHEET - UPDATED STAGING AND ANNOTATION	CMC
2	9/29/2022	UPDATED DISTURBED AREA BOUNDARY	CMC
3	6/8/2023	REISSUED SHEET - UPDATED DISTURBED AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TEMPORARY EROSION CONTROL PLANS CLEARING & GRUBBING

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
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DRAWING NUMBER
C-302

SHEET NUMBER **031**

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0 15' 30' 60' 90'
(IN FEET)

STA. 69+40
BEGIN SILT FENCE

STA. 69+70 INSTALL
SAND BAG DITCH CHECK

STA. 68+55 INSTALL
ROCK DITCH CHECK

STA. 68+40 INSTALL
ROCK DITCH CHECK

STA. 68+30
END SILT FENCE

STA. 69+50 INSTALL
ROCK DITCH CHECK

STA. 70+75 INSTALL
ROCK DITCH CHECK

STA. 71+55
END SILT FENCE

STA. 71+80 INSTALL
SAND BAG DITCH CHECK

STA. 71+40 INSTALL
SAND BAG DITCH CHECK

STA. 72+45
END SILT FENCE

DISCHARGE POINT

STA. 72+50
BEGIN SILT FENCE

STA. 73+05 INSTALL
ROCK DITCH CHECK

STA. 73+90 INSTALL
SAND BAG DITCH CHECK

STA. 73+20 INSTALL
ROCK DITCH CHECK

STA. 74+90
BEGIN SILT FENCE

STA. 74+80 INSTALL
SAND BAG DITCH CHECK

STA. 74+45 INSTALL
ROCK DITCH CHECK

STA. 74+35 INSTALL
SAND BAG DITCH CHECK

STA. 75+30 INSTALL
ROCK DITCH CHECK

STA. 74+60 INSTALL
ROCK DITCH CHECK

STA. 74+90 INSTALL
SAND BAG DITCH CHECK

STA. 75+65 INSTALL
ROCK DITCH CHECK

STA. 75+95 INSTALL
SAND BAG DITCH CHECK

STA. 76+30 INSTALL
ROCK DITCH CHECK

STA. 76+20 INSTALL
SAND BAG DITCH CHECK

STA. 76+75 INSTALL
SAND BAG DITCH CHECK

STA. 77+30 INSTALL
ROCK DITCH CHECK

STA. 77+00 INSTALL
ROCK DITCH CHECK

STA. 77+00
END SILT FENCE

STA. 77+40 INSTALL
SAND BAG DITCH CHECK

JACKSONVILLE-CATO RD.

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- DRAINAGE FLOW DIRECTION
- SILT FENCE
- DISTURBED AREA BOUNDARY
- TOB — TOP OF BANK
- TOS — TOE OF SLOPE
- E-5 — SAND BAG DITCH CHECK
- E-6 — ROCK DITCH CHECK
- E-7 — DROP INLET SILT FENCE
- CW — CONCRETE WASHOUT AREA

DISTURBED AREA = 12.86 ACRES

NOTE: CONCRETE WASHOUT SHALL BE LOCATED IN THE STAGING AREA TO BE DETERMINED BY CONTRACTOR IN A LOCATION APPROVED BY THE ENGINEER.

0 15' 30' 60' 90'
(IN FEET)

STA. 77+95 INSTALL
SAND BAG DITCH CHECK

STA. 78+00 INSTALL
ROCK DITCH CHECK

STA. 79+25 INSTALL
ROCK DITCH CHECK

STA. 80+50 INSTALL
SAND BAG DITCH CHECK

STA. 80+20 INSTALL
SAND BAG DITCH CHECK

STA. 81+55 INSTALL
ROCK DITCH CHECK

STA. 84+50 INSTALL
SAND BAG DITCH CHECK

STA. 85+50 INSTALL
ROCK DITCH CHECK

STA. 85+15
BEGIN SILT FENCE

STA. 86+05 INSTALL
ROCK DITCH CHECK

STA. 86+15 INSTALL
SAND BAG DITCH CHECK

STA. 86+40
END SILT FENCE

JACKSONVILLE-CATO RD.

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No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	10/27/2021	REISSUED SHEET - UPDATED STAGING AND ANNOTATION	CMC
2	9/29/2022	UPDATED DISTURBED AREA BOUNDARY	CMC
3	6/8/2023	REISSUED SHEET - UPDATED DISTURBED AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TEMPORARY EROSION CONTROL PLANS
CLEARING & GRUBBING

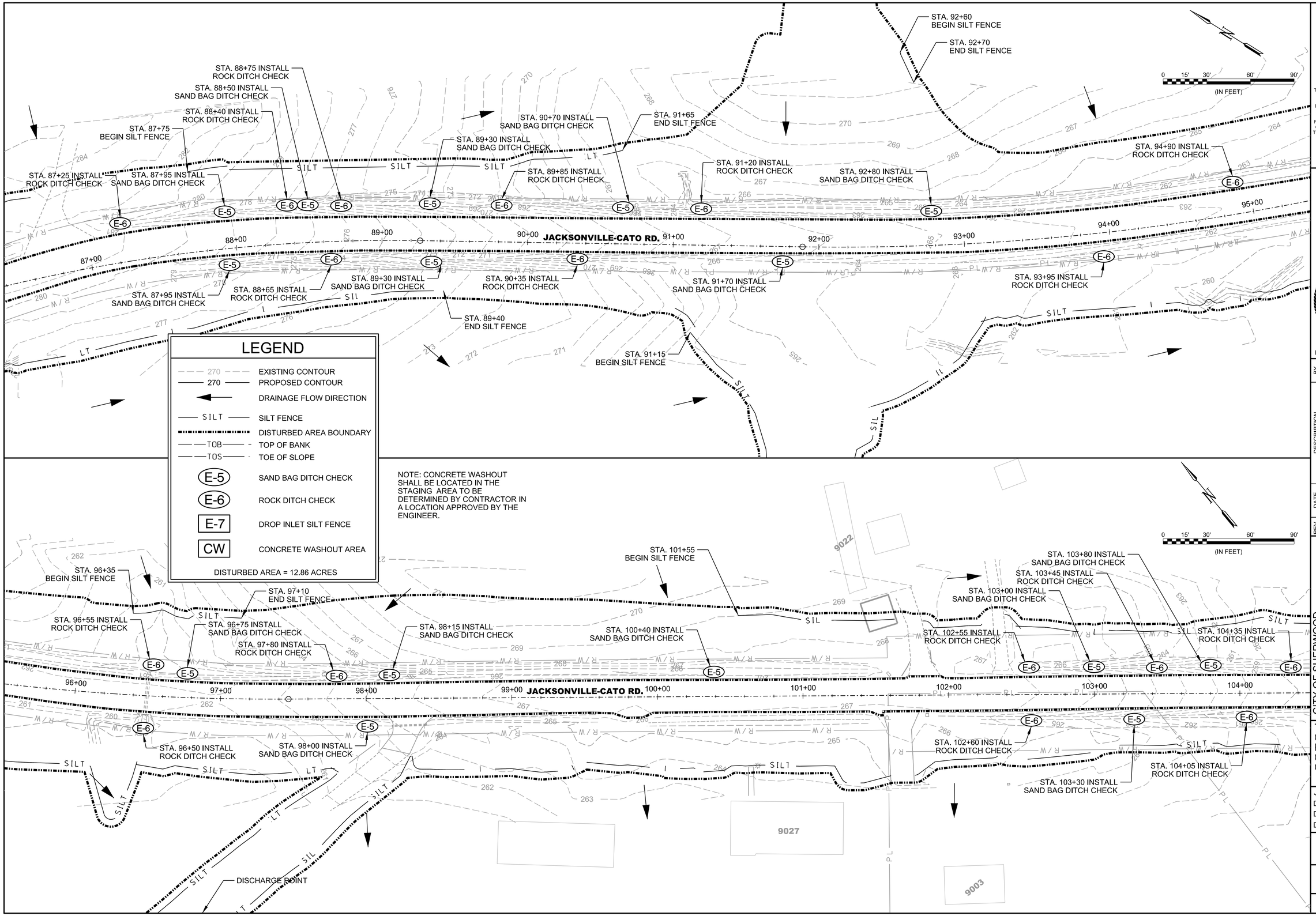
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-303

SHEET NUMBER 032

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\\WORKSPACE\Garver_2012
\\garverinc.local\gdata\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C303-EC-ADD1-CO6.dgn



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1	10/27/2021	REISSUED SHEET - UPDATED STAGING AND ANNOTATION	CMC
2	9/29/2022	UPDATED DISTURBED AREA BOUNDARY	CMC
3	6/8/2023	REISSUED SHEET - UPDATED DISTURBED AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TEMPORARY EROSION CONTROL PLANS CLEARING & GRUBBING

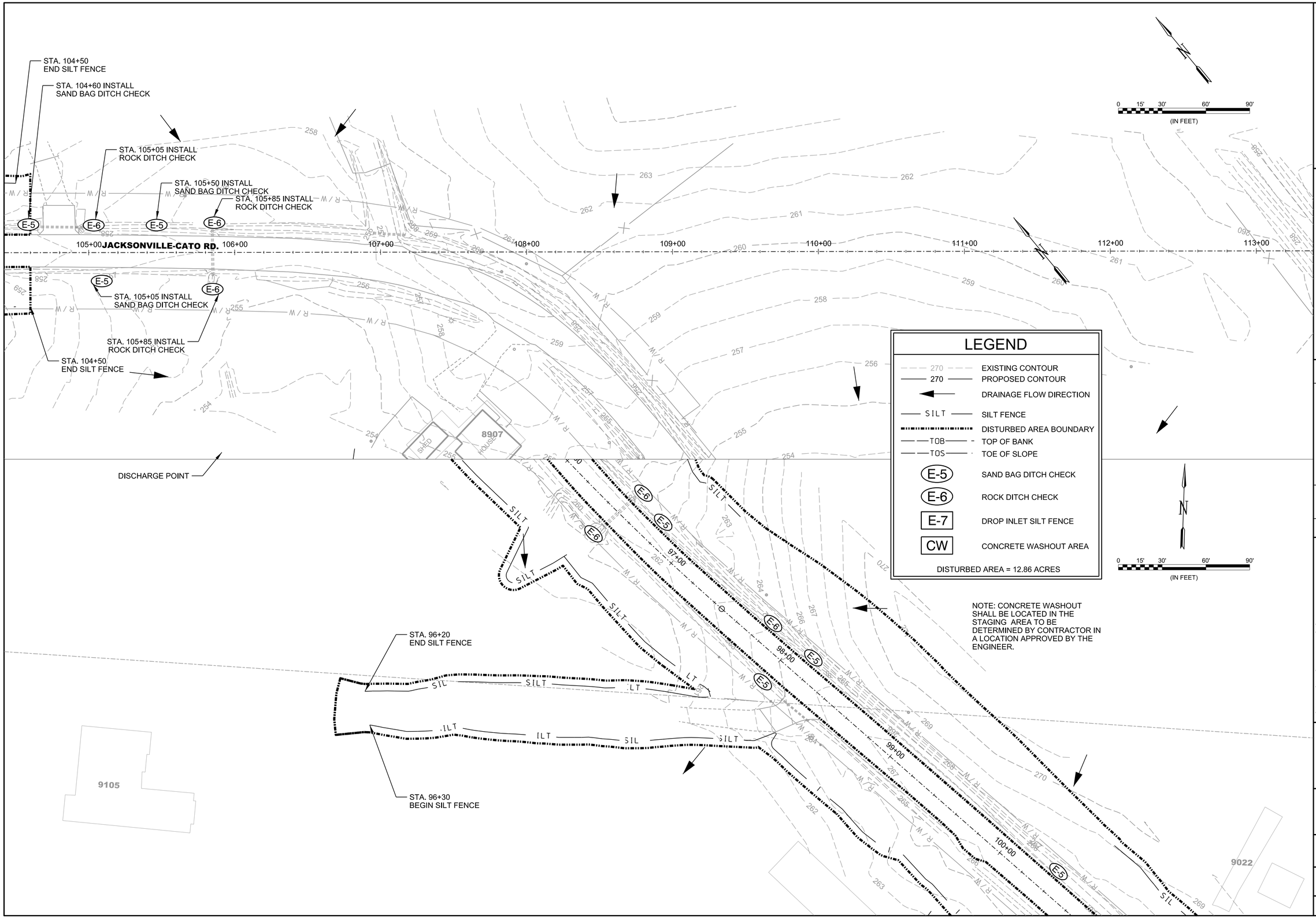
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-304

SHEET NUMBER 033

AMWeiner 6/8/2023 10:58:45 AM
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WORKSPACE:GARVER_2012



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1	10/27/2021	REISSUED SHEET - UPDATED STAGING AND ANNOTATION	CMC
2	9/29/2022	UPDATED DISTURBED AREA BOUNDARY	CMC
3	6/8/2023	REISSUED SHEET - UPDATED DISTURBED AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TEMPORARY EROSION CONTROL PLANS CLEARING & GRUBBING

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
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DRAWING NUMBER
C-305

SHEET NUMBER
034

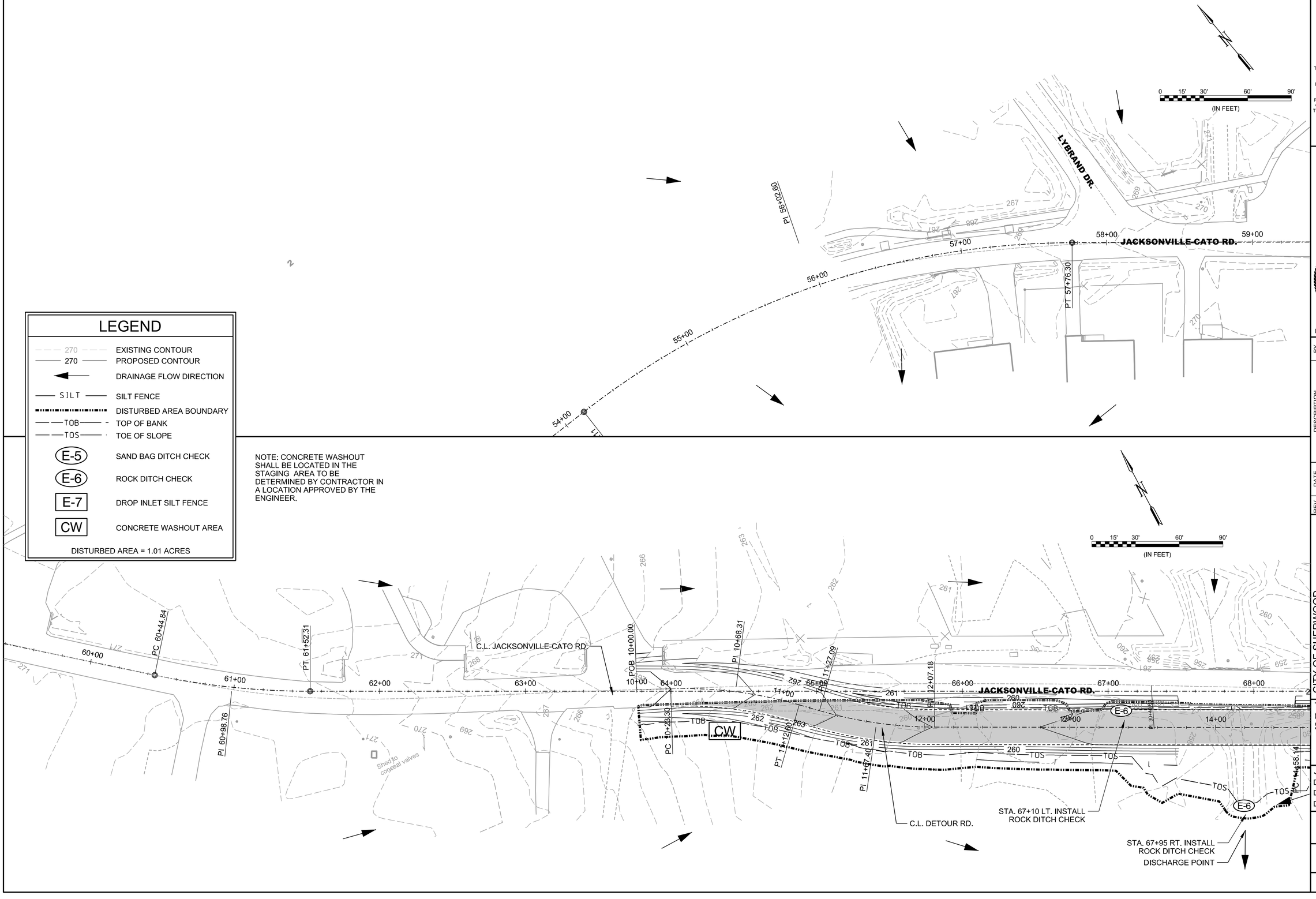
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WORKSPACE:Garver 2012
\\garvelnc.local\gdata\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C305-EC-ADD1-CO6.dgn

LEGEND

270	EXISTING CONTOUR
270	PROPOSED CONTOUR
	DRAINAGE FLOW DIRECTION
SILT	SILT FENCE
	DISTURBED AREA BOUNDARY
TOB	TOP OF BANK
TOS	TOE OF SLOPE
E-5	SAND BAG DITCH CHECK
E-6	ROCK DITCH CHECK
E-7	DROP INLET SILT FENCE
CW	CONCRETE WASHOUT AREA

DISTURBED AREA = 1.01 ACRES

NOTE: CONCRETE WASHOUT SHALL BE LOCATED IN THE STAGING AREA TO BE DETERMINED BY CONTRACTOR IN A LOCATION APPROVED BY THE ENGINEER.



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CERTIFICATE OF AUTHORIZATION — GARVER LLC No. 766 — ARKANSAS ENGINEER

STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No.16145 — CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	10/27/2021	REISSUED SHEET - UPDATED STAGING AND ANNOTATION	CMC
2	6/8/2023	REISSUED SHEET - UPDATED DISTURBED AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TEMPORARY EROSION CONTROL PLANS
STAGE 1A

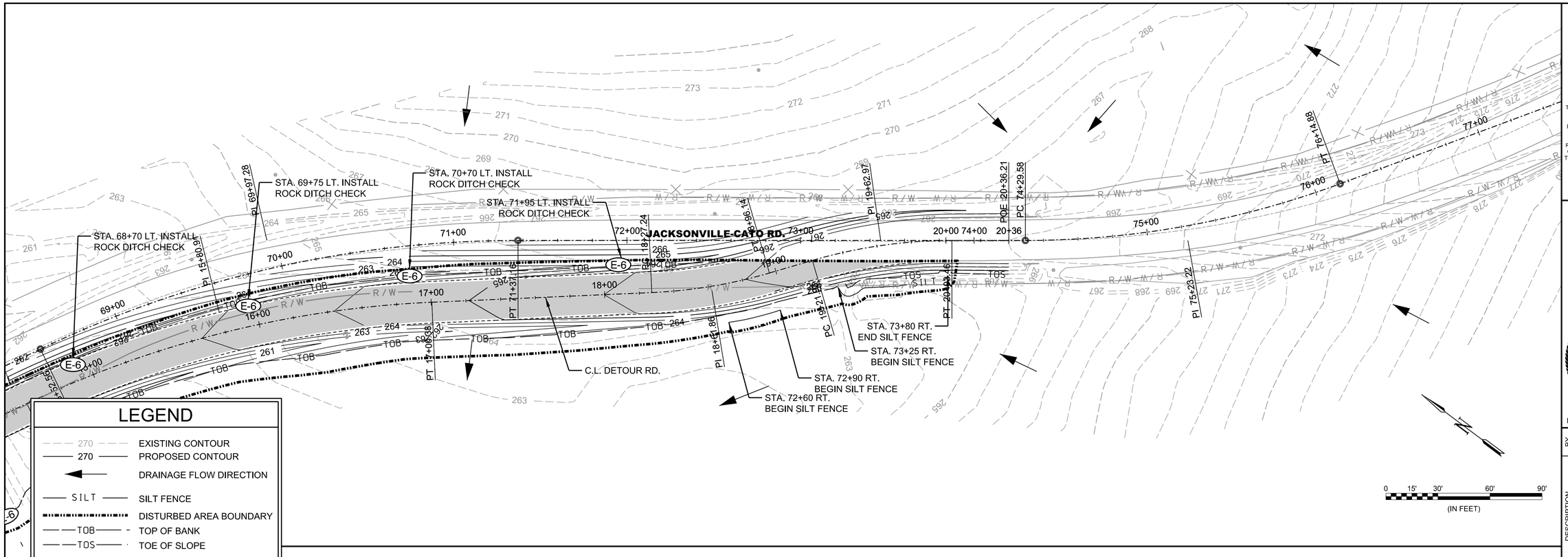
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-306

SHEET NUMBER **035**

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\\GARVERINC.LOCAL\GDATA\PROJECTS\2018\18017190 - SHERWOOD - JACKSONVILLE CATO\DRAWINGS_PHASE 1\SJC-C306-EC-CO6.DGN



LEGEND

- EXISTING CONTOUR (270)
- PROPOSED CONTOUR (270)
- DRAINAGE FLOW DIRECTION
- SILT FENCE (SILT)
- DISTURBED AREA BOUNDARY
- TOP OF BANK (TOB)
- TOE OF SLOPE (TOS)
- E-5 SAND BAG DITCH CHECK
- E-6 ROCK DITCH CHECK
- E-7 DROP INLET SILT FENCE
- CW CONCRETE WASHOUT AREA

DISTURBED AREA = 1.01 ACRES

NOTE: CONCRETE WASHOUT SHALL BE LOCATED IN THE STAGING AREA TO BE DETERMINED BY CONTRACTOR IN A LOCATION APPROVED BY THE ENGINEER.

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CERTIFICATE OF AUTHORIZATION
GARVER LLC
No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	10/27/2021	REISSUED SHEET - UPDATED STAGING AND ANNOTATION	CMC
2	6/8/2023	REISSUED SHEET - UPDATED DISTURBED AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TEMPORARY EROSION CONTROL PLANS
STAGE 1A

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-307

SHEET NUMBER **036**

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WORKSPACE:GARVER_2012

LEGEND

270	EXISTING CONTOUR
270	PROPOSED CONTOUR
	DRAINAGE FLOW DIRECTION
SILT	SILT FENCE
	DISTURBED AREA BOUNDARY
TOB	TOP OF BANK
TOS	TOE OF SLOPE
E-5	SAND BAG DITCH CHECK
E-6	ROCK DITCH CHECK
E-7	DROP INLET SILT FENCE
CW	CONCRETE WASHOUT AREA

DISTURBED AREA = 1.27 ACRES

NOTE: CONCRETE WASHOUT SHALL BE LOCATED IN THE STAGING AREA TO BE DETERMINED BY CONTRACTOR IN A LOCATION APPROVED BY THE ENGINEER.

0 15' 30' 60' 90'
(IN FEET)

LYBRAND DR.

JACKSONVILLE-CATO RD.

DISCHARGE POINT

STA. 66+20 INSTALL DROP INLET SILT FENCE

C.L. DETOUR RD.

PC 60+44.84
PT 61+52.31
PI 60+98.76
POB 10+00.00
PC 10+23.30
PI 10+68.31
PT 11+27.09
PT 11+90
PI 11+67.40
PI 51+76.30
PI 56+02.89
PT 12+07.18
PI 13+58.68
PC 14+58.14

10007 10001 9927 10015 9806 9811 9911

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GARVER LLC No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN
Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	XX/XX/XX	REISSUED SHEET - UPDATED STAGING AND ANNOTATION	CMC
2	6/8/2023	REISSUED SHEET - UPDATED DISTURBED AREA	CMC

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

TEMPORARY EROSION CONTROL PLANS
STAGE 1B

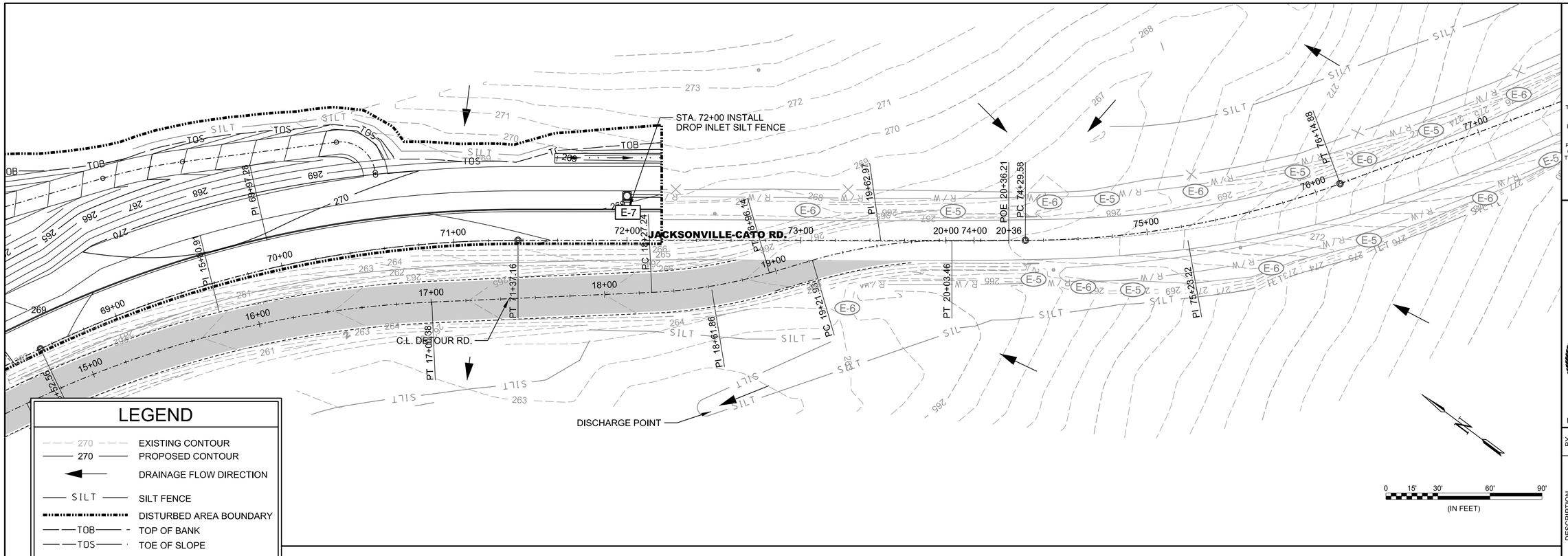
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-308

SHEET NUMBER 037

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\\GARVERINC.LOCAL\GDATA\PROJECTS\2018\18017190 - SHERWOOD - JACKSONVILLE CATO\DRAWINGS_PHASE 1\SJC-C308-EC-ADD1-CO6.DGN



LEGEND

270	EXISTING CONTOUR
270	PROPOSED CONTOUR
	DRAINAGE FLOW DIRECTION
SILT	SILT FENCE
	DISTURBED AREA BOUNDARY
TOB	TOP OF BANK
TOS	TOE OF SLOPE
E-5	SAND BAG DITCH CHECK
E-6	ROCK DITCH CHECK
E-7	DROP INLET SILT FENCE
CW	CONCRETE WASHOUT AREA

DISTURBED AREA = 1.27 ACRES

NOTE: CONCRETE WASHOUT SHALL BE LOCATED IN THE STAGING AREA TO BE DETERMINED BY CONTRACTOR IN A LOCATION APPROVED BY THE ENGINEER.

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

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REV.	DATE	DESCRIPTION	BY
1	10/27/2021	REISSUED SHEET - UPDATED STAGING AND ANNOTATION	CMC
2	6/8/2023	REISSUED SHEET - UPDATED DISTURBED AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TEMPORARY EROSION CONTROL PLANS
STAGE 1B

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-309

SHEET NUMBER **038**

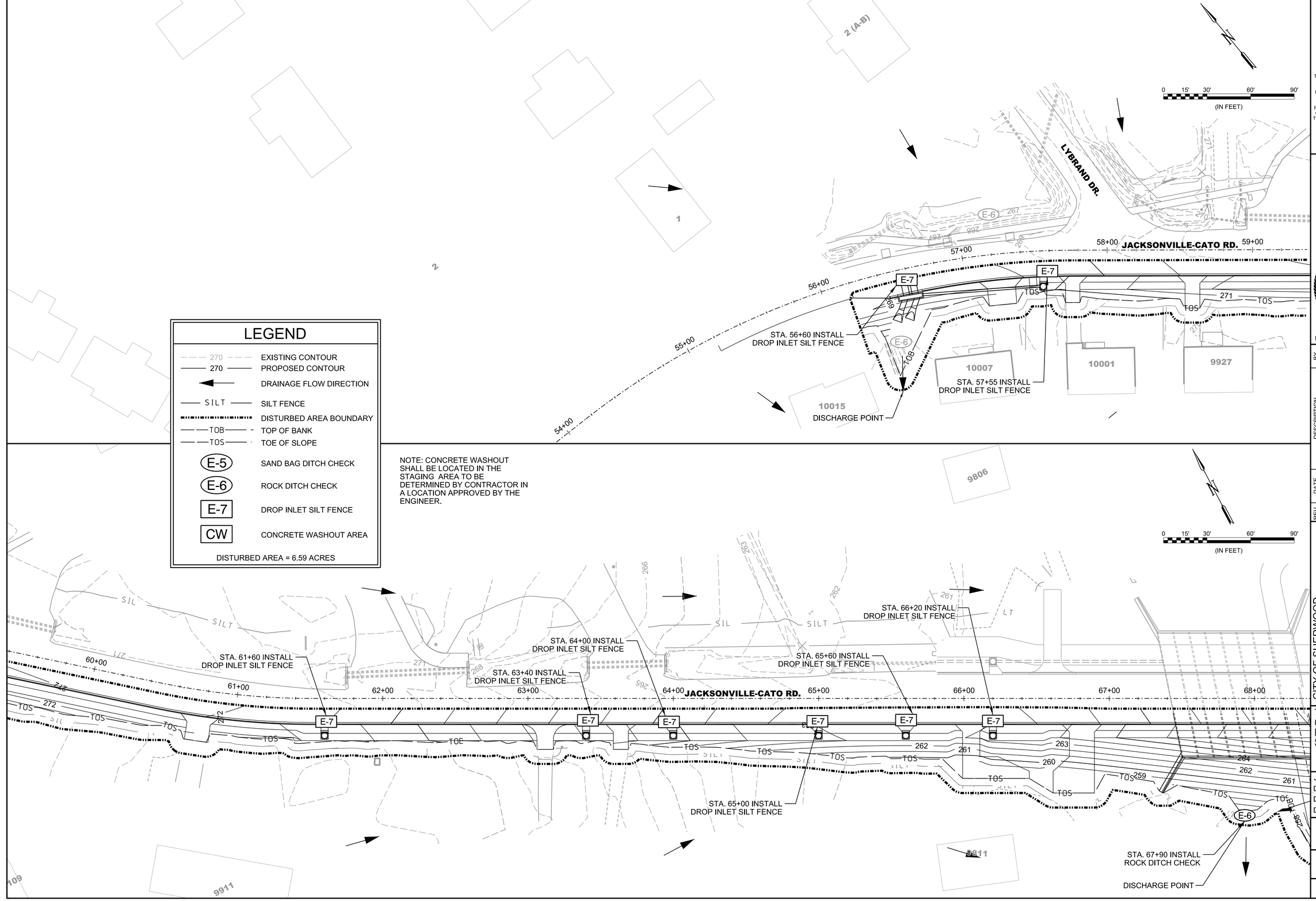
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\\GARVERINC.LOCAL\GDATA\PROJECTS\2018\18017190 - SHERWOOD - JACKSONVILLE CATO\DRAWINGS_PHASE 1\SJC-C309-EC-ADD1-CO6.DGN

LEGEND

270	EXISTING CONTOUR
270	PROPOSED CONTOUR
	DRAINAGE FLOW DIRECTION
SILT	SILT FENCE
	DISTURBED AREA BOUNDARY
TOB	TOP OF BANK
TOS	TOE OF SLOPE
E-5	SAND BAG DITCH CHECK
E-6	ROCK DITCH CHECK
E-7	DROP INLET SILT FENCE
CW	CONCRETE WASHOUT AREA

DISTURBED AREA = 6.59 ACRES

NOTE: CONCRETE WASHOUT SHALL BE LOCATED IN THE STAGING AREA TO BE DETERMINED BY CONTRACTOR IN A LOCATION APPROVED BY THE ENGINEER.



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STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No.16145 — CHARLES M. CULLEN

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REV.	DATE	DESCRIPTION	BY
1	10/27/2021	REISSUED SHEET - UPDATED STAGING AND ANNOTATION	CMC
2	9/29/2022	UPDATED DISTURBED AREA BOUNDARY	CMC
3	6/8/2023	REISSUED SHEET - UPDATED DISTURBED AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TEMPORARY EROSION CONTROL PLANS STAGE 2

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-310

SHEET NUMBER **039**

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\\GARVERINC.LOCAL\GDATA\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C310-EC-ADD1-CO6.dgn
WORKSPACE:Garver_2012

STA. 73+70 INSTALL
DROP INLET SILT FENCE

STA. 73+20 INSTALL
DROP INLET SILT FENCE

STA. 72+00 INSTALL
DROP INLET SILT FENCE

JACKSONVILLE-CATO RD.

STA. 76+00 INSTALL
DROP INLET SILT FENCE

STA. 74+80 INSTALL
DROP INLET SILT FENCE

STA. 73+90 INSTALL
DROP INLET SILT FENCE

STA. 73+70 INSTALL
ROCK DITCH CHECK

STA. 73+20 INSTALL
ROCK DITCH CHECK

DISCHARGE POINT

0 15' 30' 60' 90'
(IN FEET)

STA. 79+20 INSTALL
DROP INLET SILT FENCE

STA. 77+50 INSTALL
DROP INLET SILT FENCE

STA. 84+20 INSTALL
ROCK DITCH CHECK

STA. 79+30 INSTALL
ROCK DITCH CHECK

STA. 79+45 INSTALL
SAND BAG DITCH CHECK

STA. 79+80 INSTALL
DROP INLET SILT FENCE

STA. 80+80 INSTALL
DROP INLET SILT FENCE

STA. 81+10 INSTALL
ROCK DITCH CHECK

STA. 83+05 INSTALL
SAND BAG DITCH CHECK

NOTE: CONCRETE WASHOUT SHALL BE LOCATED IN THE STAGING AREA TO BE DETERMINED BY CONTRACTOR IN A LOCATION APPROVED BY THE ENGINEER.

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- DRAINAGE FLOW DIRECTION
- SILT FENCE
- DISTURBED AREA BOUNDARY
- TOP OF BANK
- TOE OF SLOPE
- SAND BAG DITCH CHECK
- ROCK DITCH CHECK
- DROP INLET SILT FENCE
- CONCRETE WASHOUT AREA

DISTURBED AREA = 6.59 ACRES

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GARVER LLC
No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV	DATE	DESCRIPTION	BY
1	10/27/2021	REISSUED SHEET - UPDATED STAGING AND ANNOTATION	CMC
2	9/29/2022	ADJUSTED PLAN FOR NEW ROUNDABOUT LEG	CMC
3	6/8/2023	REISSUED SHEET - UPDATED DISTURBED AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TEMPORARY EROSION CONTROL PLANS
STAGE 2

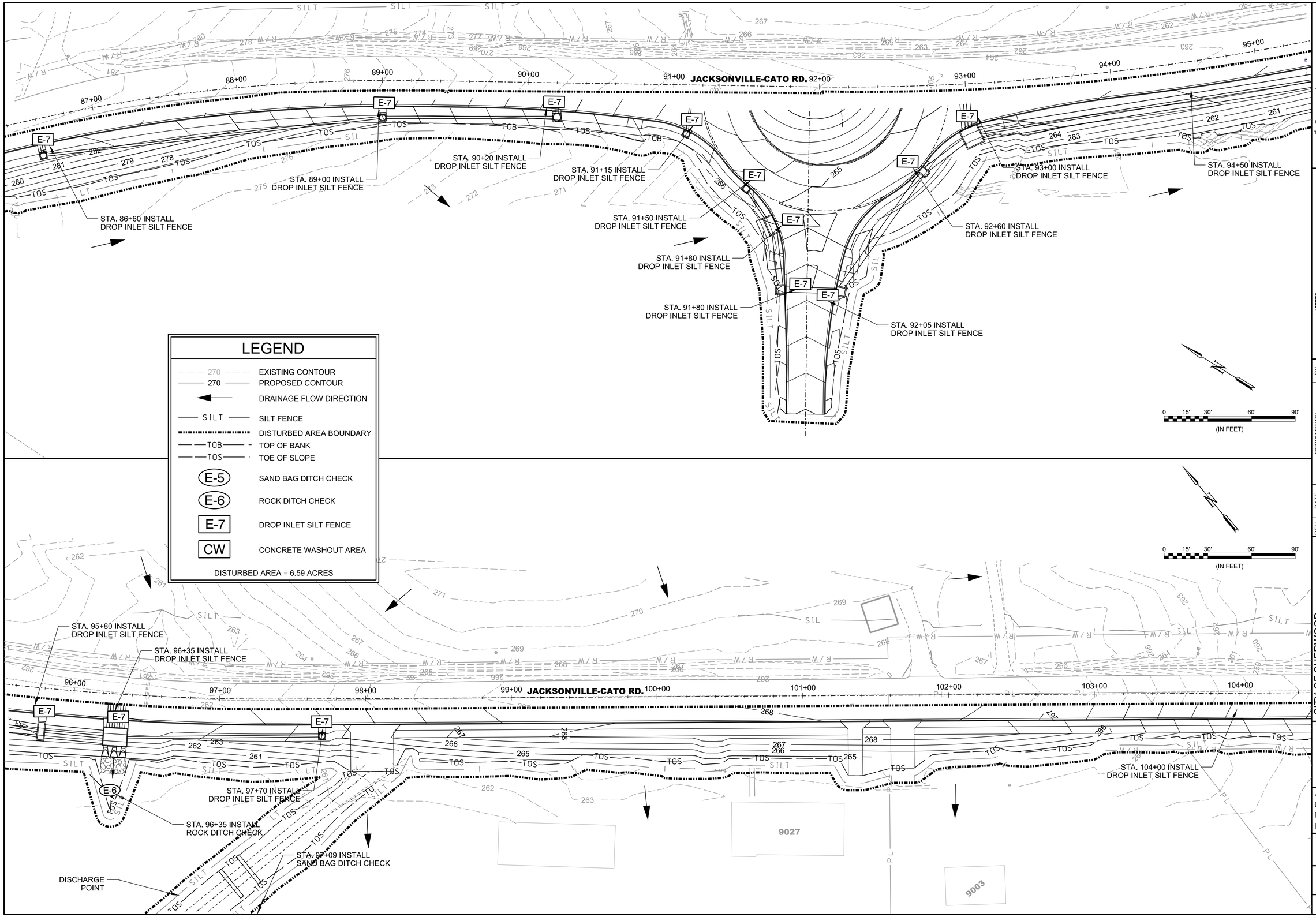
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-311

SHEET NUMBER **040**

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LEGEND

270	EXISTING CONTOUR
270	PROPOSED CONTOUR
	DRAINAGE FLOW DIRECTION
SILT	SILT FENCE
	DISTURBED AREA BOUNDARY
TOB	TOP OF BANK
TOS	TOE OF SLOPE
E-5	SAND BAG DITCH CHECK
E-6	ROCK DITCH CHECK
E-7	DROP INLET SILT FENCE
CW	CONCRETE WASHOUT AREA

DISTURBED AREA = 6.59 ACRES

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REV.	DATE	DESCRIPTION	BY
1	10/27/2021	REISSUED SHEET - UPDATED STAGING AND ANNOTATION	CMC
2	9/29/2022	UPDATED DISTURBED AREA BOUNDARY	CMC
3	6/8/2023	REISSUED SHEET - UPDATED DISTURBED AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TEMPORARY EROSION CONTROL PLANS
STAGE 2

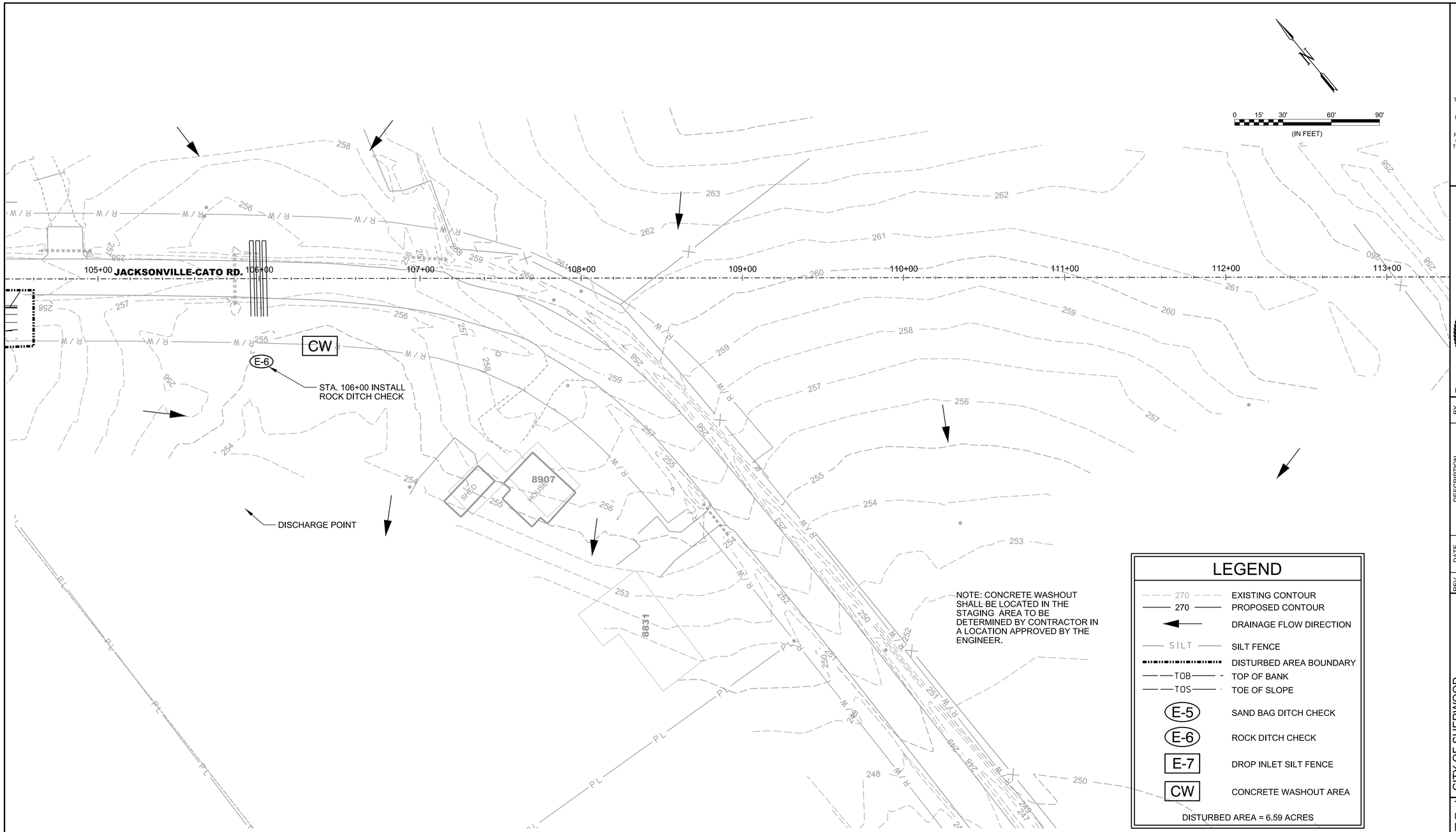
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DATE: JUNE 2023
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DRAWING NUMBER
C-312

SHEET NUMBER
041

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NOTE: CONCRETE WASHOUT SHALL BE LOCATED IN THE STAGING AREA TO BE DETERMINED BY CONTRACTOR IN A LOCATION APPROVED BY THE ENGINEER.

LEGEND

270	EXISTING CONTOUR
270	PROPOSED CONTOUR
	DRAINAGE FLOW DIRECTION
SILT	SILT FENCE
	DISTURBED AREA BOUNDARY
TOB	TOP OF BANK
TOS	TOE OF SLOPE
E-5	SAND BAG DITCH CHECK
E-6	ROCK DITCH CHECK
E-7	DROP INLET SILT FENCE
CW	CONCRETE WASHOUT AREA

DISTURBED AREA = 6.59 ACRES

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CHARLES M. CULLEN

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REV.	DATE	DESCRIPTION	BY
1	10/27/2021	REISSUED SHEET - UPDATED STAGING AND ANNOTATION	CMC
2	9/29/2022	UPDATED DISTURBED AREA BOUNDARY	CMC
3	6/8/2023	REISSUED SHEET - UPDATED DISTURBED AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TEMPORARY EROSION CONTROL PLANS
STAGE 2

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-313

SHEET NUMBER **042**

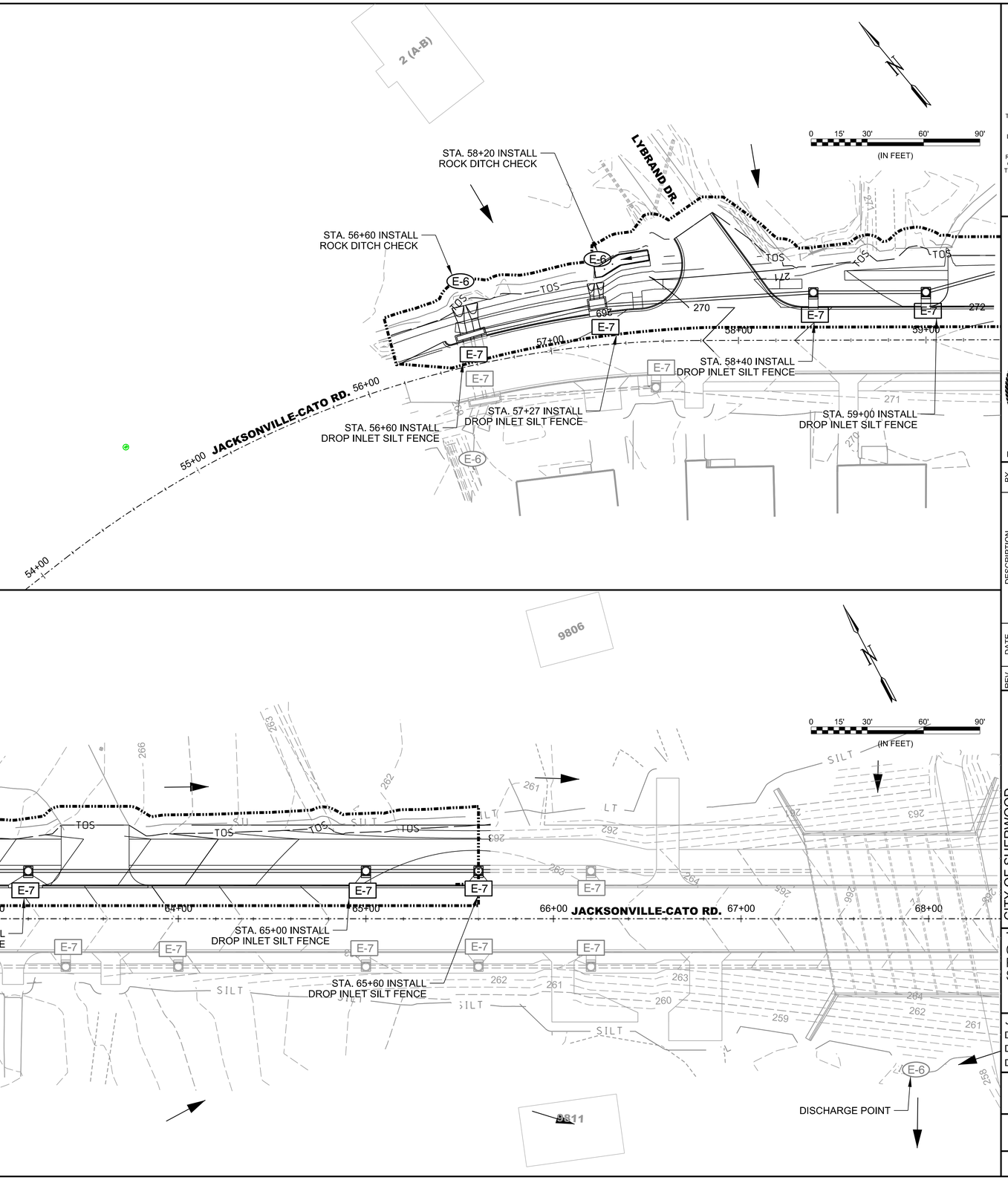
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WORKSPACE:Garver_2012
\\garverinc.local\gdata\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C313-EC-ADD1-CO6.dgn

LEGEND

270	EXISTING CONTOUR
270	PROPOSED CONTOUR
	DRAINAGE FLOW DIRECTION
SILT	SILT FENCE
	DISTURBED AREA BOUNDARY
TOB	TOP OF BANK
TOS	TOE OF SLOPE
E-5	SAND BAG DITCH CHECK
E-6	ROCK DITCH CHECK
E-7	DROP INLET SILT FENCE
CW	CONCRETE WASHOUT AREA

DISTURBED AREA = 6.35 ACRES

NOTE: CONCRETE WASHOUT SHALL BE LOCATED IN THE STAGING AREA TO BE DETERMINED BY CONTRACTOR IN A LOCATION APPROVED BY THE ENGINEER.



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REV.	DATE	DESCRIPTION	BY
1	10/27/2021	REISSUED SHEET - UPDATED STAGING AND ANNOTATION	CMC
2	6/8/2023	REISSUED SHEET - UPDATED DISTURBED AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TEMPORARY EROSION CONTROL PLANS STAGE 3

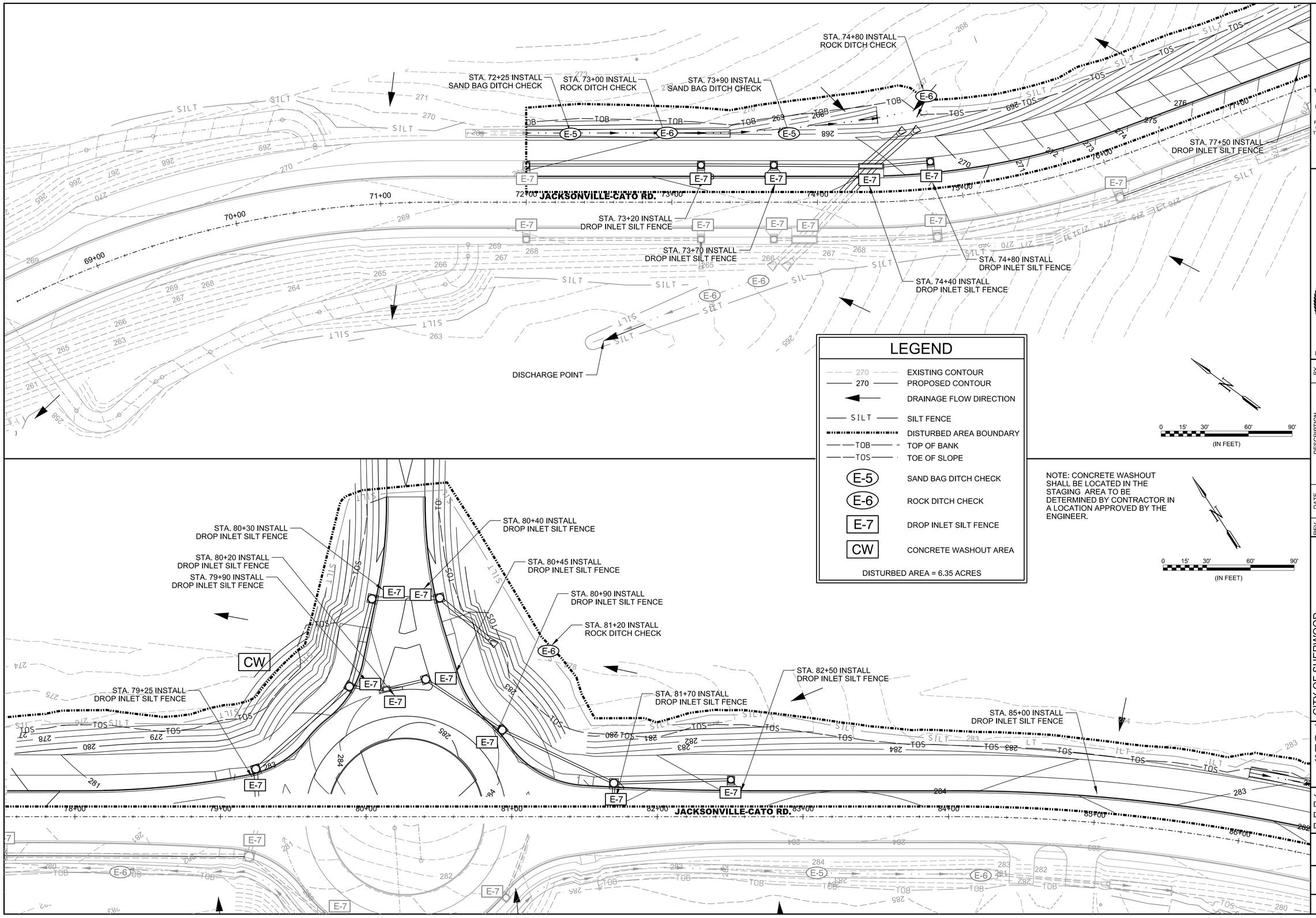
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-314

SHEET NUMBER **043**

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WORKSPACE:GARVER_2012



LEGEND

- 270 — EXISTING CONTOUR
- 270 — PROPOSED CONTOUR
- DRAINAGE FLOW DIRECTION
- SILT — SILT FENCE
- DISTURBED AREA BOUNDARY
- TOB — TOP OF BANK
- TOS — TOE OF SLOPE
- E-5 — SAND BAG DITCH CHECK
- E-6 — ROCK DITCH CHECK
- E-7 — DROP INLET SILT FENCE
- CW — CONCRETE WASHOUT AREA

DISTURBED AREA = 6.35 ACRES

NOTE: CONCRETE WASHOUT SHALL BE LOCATED IN THE STAGING AREA TO BE DETERMINED BY CONTRACTOR IN A LOCATION APPROVED BY THE ENGINEER.

0 15' 30' 60' 90'
(IN FEET)

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CERTIFICATE OF AUTHORIZATION
GARVER LLC No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	10/27/2021	REISSUED SHEET - UPDATED STAGING AND ANNOTATION	CMC
2	6/8/2023	REISSUED SHEET - UPDATED DISTURBED AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TEMPORARY EROSION CONTROL PLANS
STAGE 3

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-315

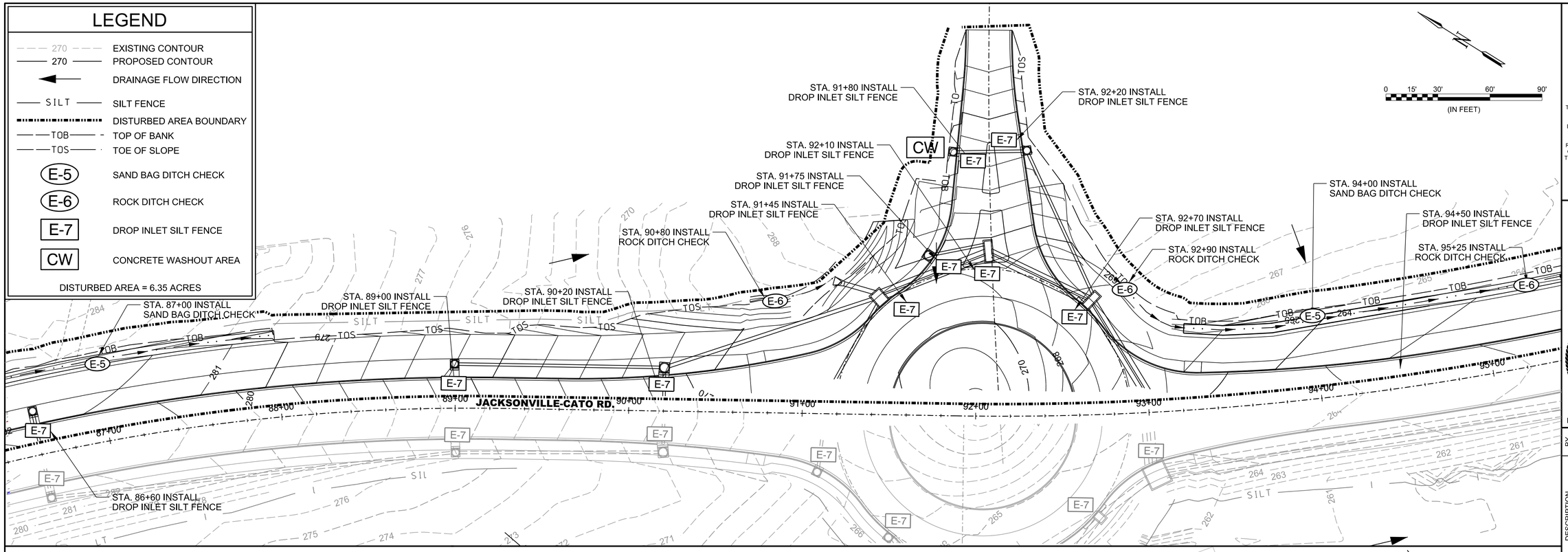
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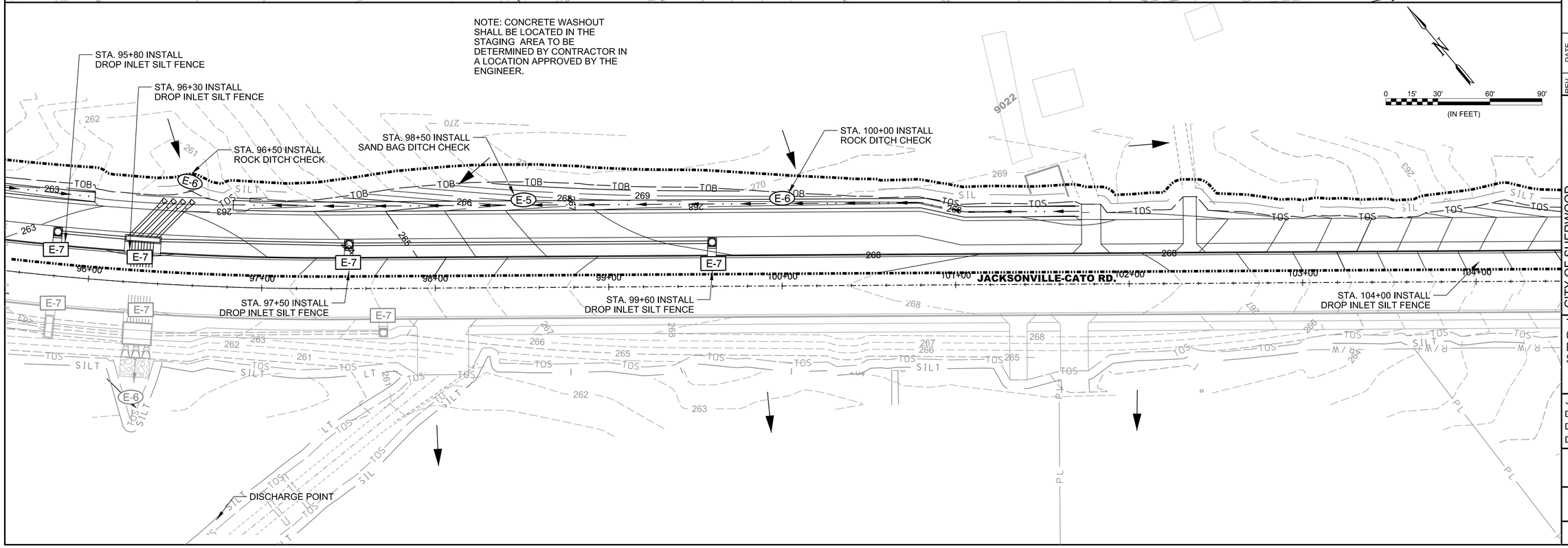
LEGEND

- 270 — EXISTING CONTOUR
- 270 — PROPOSED CONTOUR
- DRAINAGE FLOW DIRECTION
- SILT — SILT FENCE
- DISTURBED AREA BOUNDARY
- TOB — TOP OF BANK
- TOS — TOE OF SLOPE
- E-5 — SAND BAG DITCH CHECK
- E-6 — ROCK DITCH CHECK
- E-7 — DROP INLET SILT FENCE
- CW — CONCRETE WASHOUT AREA

DISTURBED AREA = 6.35 ACRES



NOTE: CONCRETE WASHOUT SHALL BE LOCATED IN THE STAGING AREA TO BE DETERMINED BY CONTRACTOR IN A LOCATION APPROVED BY THE ENGINEER.



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CERTIFICATE OF AUTHORIZATION — GARVER LLC No. 766 — ARKANSAS ENGINEER

STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No.16145 — CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	10/27/2021	REISSUED SHEET - UPDATED STAGING AND ANNOTATION	CMC
2	6/8/2023	REISSUED SHEET - UPDATED DISTURBED AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TEMPORARY EROSION CONTROL PLANS STAGE 3

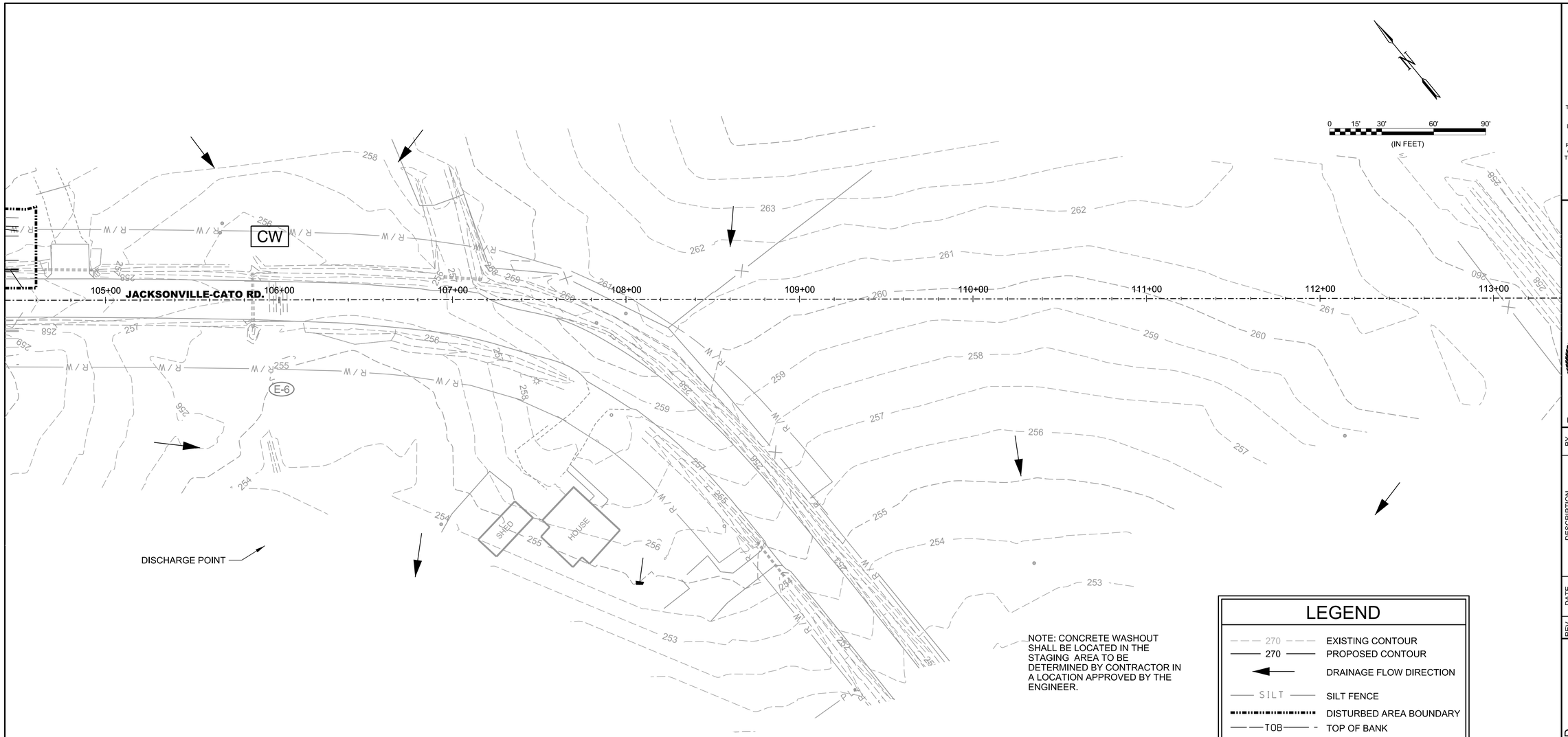
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-316

SHEET NUMBER **045**

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WORKSPACE:GARVER_2012
\\garverinc.localgdata\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C316-EC-ADD1-CO6.dgn



NOTE: CONCRETE WASHOUT SHALL BE LOCATED IN THE STAGING AREA TO BE DETERMINED BY CONTRACTOR IN A LOCATION APPROVED BY THE ENGINEER.

LEGEND

270	EXISTING CONTOUR
270	PROPOSED CONTOUR
	DRAINAGE FLOW DIRECTION
SILT	SILT FENCE
	DISTURBED AREA BOUNDARY
TOB	TOP OF BANK
TOS	TOE OF SLOPE
E-5	SAND BAG DITCH CHECK
E-6	ROCK DITCH CHECK
E-7	DROP INLET SILT FENCE
CW	CONCRETE WASHOUT AREA

DISTURBED AREA = 7.40 ACRES

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CERTIFICATE OF AUTHORIZATION
GARVER LLC No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	10/27/2021	REISSUED SHEET - UPDATED STAGING AND ANNOTATION	CMC
2	6/8/2023	REISSUED SHEET - UPDATED DISTURBED AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TEMPORARY EROSION CONTROL PLANS
STAGE 3

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-317

SHEET NUMBER 046

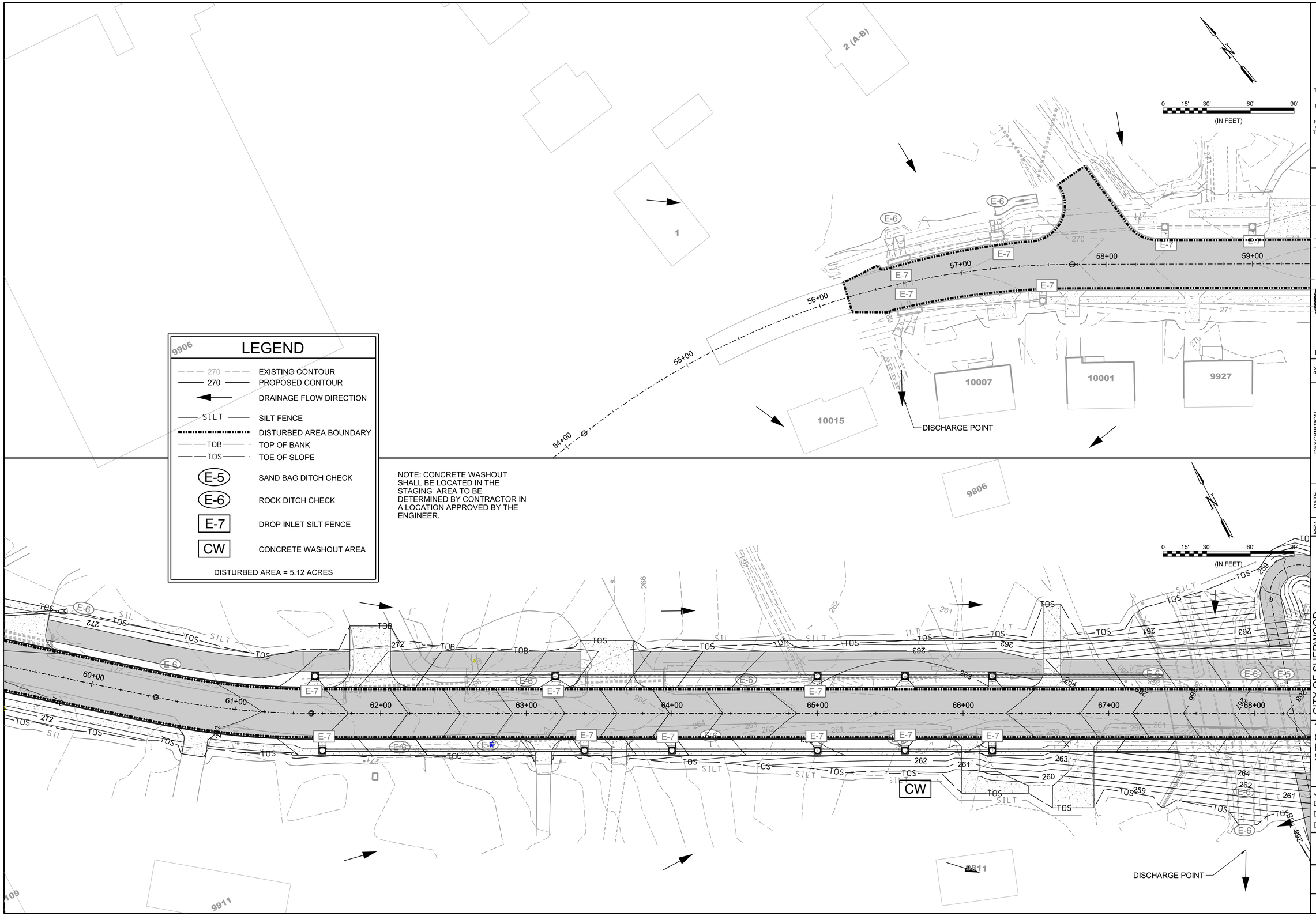
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\\garverinc.local\gdata\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C317-EC-ADD1-CO6.dgn

LEGEND

270	EXISTING CONTOUR
270	PROPOSED CONTOUR
	DRAINAGE FLOW DIRECTION
SILT	SILT FENCE
	DISTURBED AREA BOUNDARY
TOB	TOP OF BANK
TOS	TOE OF SLOPE
E-5	SAND BAG DITCH CHECK
E-6	ROCK DITCH CHECK
E-7	DROP INLET SILT FENCE
CW	CONCRETE WASHOUT AREA

DISTURBED AREA = 5.12 ACRES

NOTE: CONCRETE WASHOUT SHALL BE LOCATED IN THE STAGING AREA TO BE DETERMINED BY CONTRACTOR IN A LOCATION APPROVED BY THE ENGINEER.



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STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No.16145 — CHARLES M. CULLEN

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REV.	DATE	DESCRIPTION	BY
1	10/27/2021	REISSUED SHEET - UPDATED STAGING AND ANNOTATION	CMC
2	9/29/2022	UPDATED DISTURBED AREA BOUNDARY	CMC
3	6/8/2023	REISSUED SHEET - UPDATED DISTURBED AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TEMPORARY EROSION CONTROL PLANS
STAGE 4

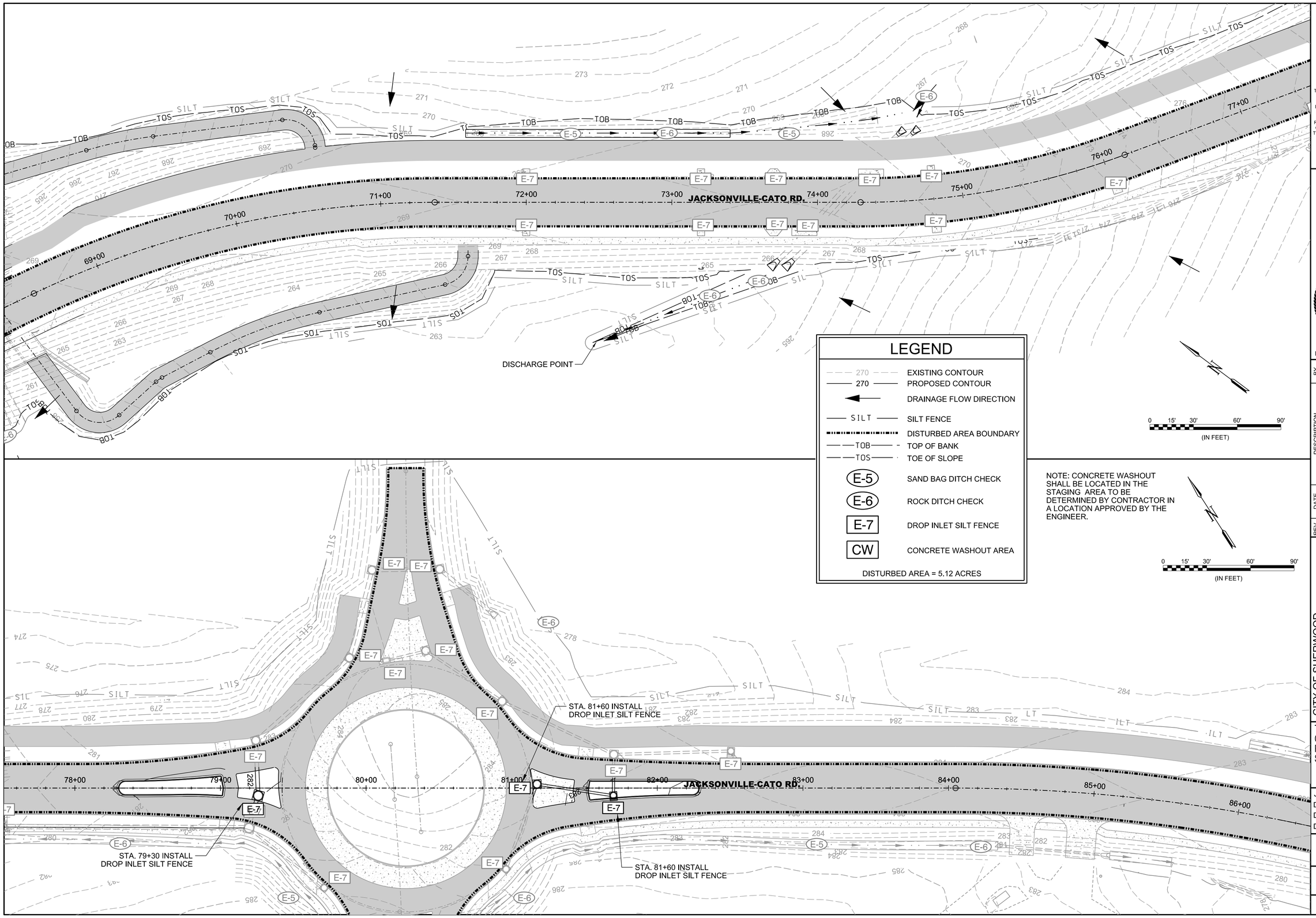
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-318

SHEET NUMBER **047**

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	10/27/2021	REISSUED SHEET - UPDATED STAGING AND ANNOTATION	CMC
2	9/29/2022	UPDATED DISTURBED AREA BOUNDARY	CMC
3	6/8/2023	REISSUED SHEET - UPDATED DISTURBED AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TEMPORARY EROSION CONTROL PLANS
STAGE 4

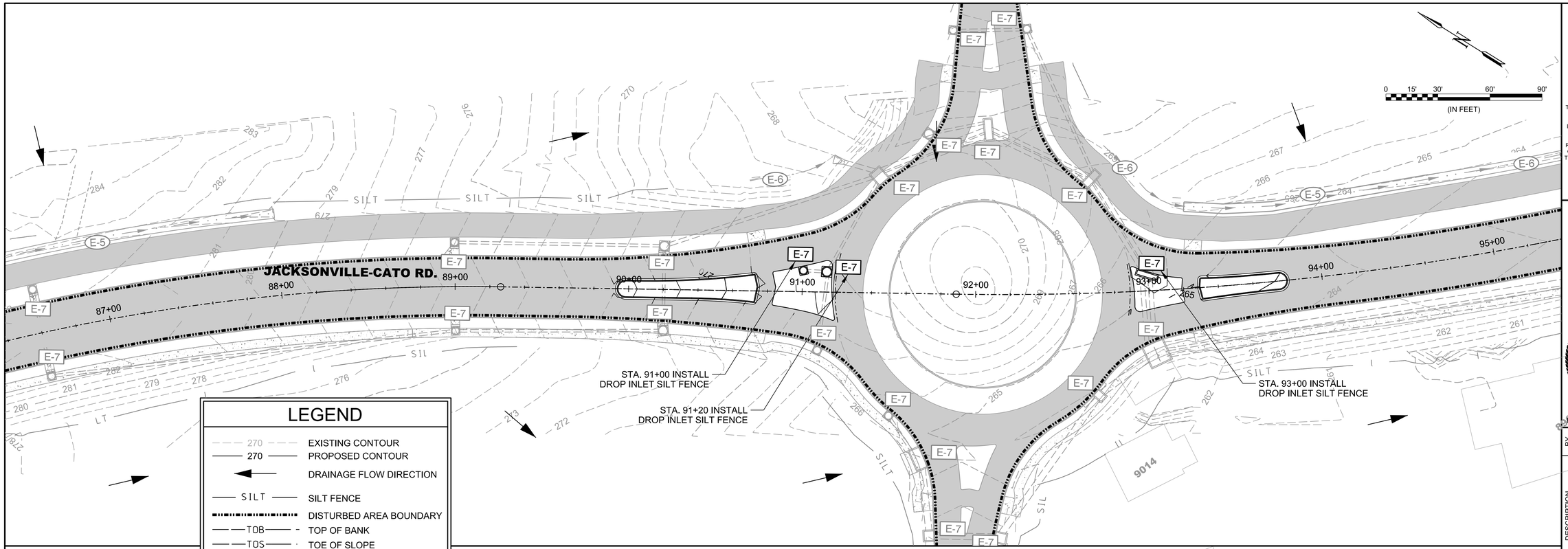
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-319

SHEET NUMBER 048

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WORKSPACE:Garver_2012
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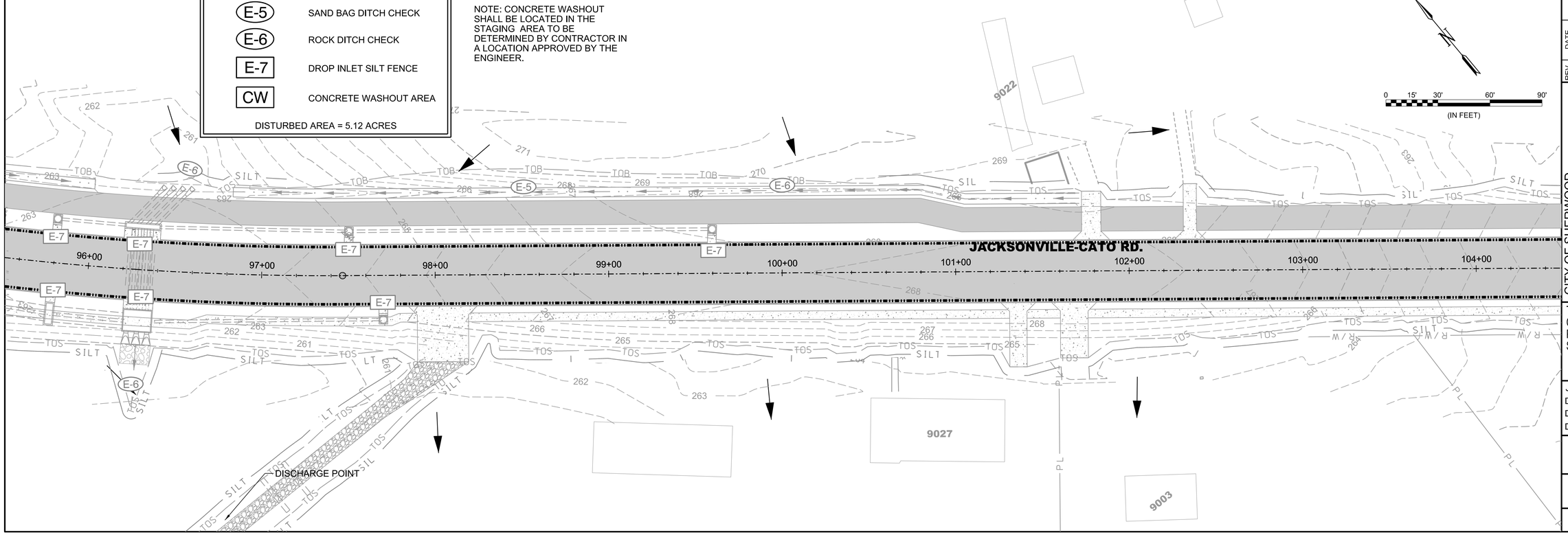


LEGEND

270	EXISTING CONTOUR
270	PROPOSED CONTOUR
	DRAINAGE FLOW DIRECTION
SILT	SILT FENCE
	DISTURBED AREA BOUNDARY
TOB	TOP OF BANK
TOS	TOE OF SLOPE
E-5	SAND BAG DITCH CHECK
E-6	ROCK DITCH CHECK
E-7	DROP INLET SILT FENCE
CW	CONCRETE WASHOUT AREA

DISTURBED AREA = 5.12 ACRES

NOTE: CONCRETE WASHOUT SHALL BE LOCATED IN THE STAGING AREA TO BE DETERMINED BY CONTRACTOR IN A LOCATION APPROVED BY THE ENGINEER.



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GARVER LLC No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN
Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	10/27/2021	REISSUED SHEET - UPDATED STAGING AND ANNOTATION	CMC
2	9/29/2022	UPDATED DISTURBED AREA BOUNDARY	CMC
3	6/8/2023	REISSUED SHEET - UPDATED DISTURBED AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TEMPORARY EROSION CONTROL PLANS
STAGE 4

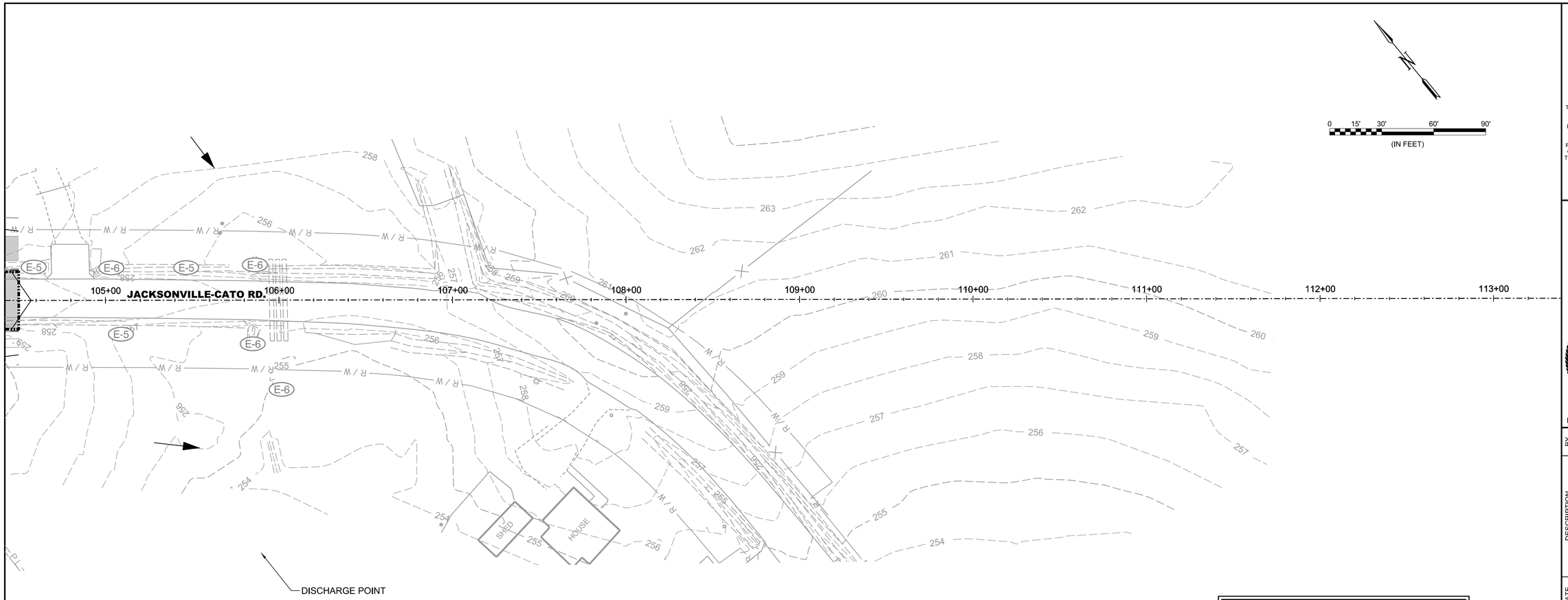
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-320

SHEET NUMBER **049**

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WORKSPACE:Garver 2012
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NOTE: CONCRETE WASHOUT SHALL BE LOCATED IN THE STAGING AREA TO BE DETERMINED BY CONTRACTOR IN A LOCATION APPROVED BY THE ENGINEER.

LEGEND

270	EXISTING CONTOUR
270	PROPOSED CONTOUR
	DRAINAGE FLOW DIRECTION
SILT	SILT FENCE
	DISTURBED AREA BOUNDARY
TOB	TOP OF BANK
TOS	TOE OF SLOPE
E-5	SAND BAG DITCH CHECK
E-6	ROCK DITCH CHECK
E-7	DROP INLET SILT FENCE
CW	CONCRETE WASHOUT AREA

DISTURBED AREA = 5.12 ACRES

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STATE OF ARKANSAS
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CHARLES M. CULLEN

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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

TEMPORARY EROSION CONTROL PLANS
STAGE 4

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-321

SHEET NUMBER **050**

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WORKSPACE:Garver_2012
\\garverinc.local\gdata\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C321-EC-ADD1-CO6.dgn

GENERAL NOTES:

1. THE MAINTENANCE OF TRAFFIC AS SHOWN IN THE PLANS IS PROVIDED TO THE CONTRACTOR AS MINIMUM CONTROLS AND AS GUIDANCE. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER AND OWNER FOR APPROVAL A DETAILED MAINTENANCE OF TRAFFIC PLAN IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO START OF CONSTRUCTION.
2. ALL EXISTING SIGNS NEEDED TO MAINTAIN TRAFFIC SHALL REMAIN IN PLACE AND IN CLEAR SIGHT UNLESS OTHERWISE NOTED. EXISTING SIGNS WHICH NEED TO BE MOVED IN ORDER TO MAINTAIN TRAFFIC SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXISTING SIGNS THAT ARE REMOVED SHALL BE STOCKPILED & MADE AVAILABLE FOR FUTURE CONSTRUCTION PHASES. UPON COMPLETION OF THE PROJECT ALL REMAINING SIGNS SHALL BE DELIVERED TO THE CITY, AS DIRECTED BY THE ENGINEER.
3. CONTRACTOR SHALL MAINTAIN ALL ACCESS TO ALL LOCAL BUSINESSES AND RESIDENTS.
4. TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT WHEN OVERLAYING UNDER TRAFFIC AND AS SHOWN ON THE PLANS.
5. SHORT DURATION STREET CLOSURES MAY BE REQUIRED FOR PIPE INSTALLATIONS AND OTHER ITEMS OF WORK. CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER AND OWNER FOR APPROVAL A DETAILED MAINTENANCE OF TRAFFIC PLAN. TRAFFIC CONTROL FOR SHORT DURATION CLOSURES SHALL BE CONSIDERED SUBSIDIARY TO THE PRICE BID FOR MAINTENANCE OF TRAFFIC.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING U.S. MAILBOXES WITHIN THE PROJECT LIMITS IN SUCH A MANNER THAT THE PUBLIC MAY RECEIVE CONTINUED MAIL SERVICE. PAYMENT WILL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS BID ITEMS.
7. ALL TRAFFIC CONTROL DEVICES USED ON ROAD CONSTRUCTION SHALL CONFORM TO AND BE PLACED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
8. NO SEPARATE PAYMENT SHALL BE PROVIDED FOR WORK INCLUDING MATERIALS USED FOR TEMPORARY DRIVING SURFACES.
9. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY DRAINAGE AS REQUIRED.
10. MULTIPLE SIGNS, WHERE CALLED OUT IN SINGLE LOCATION, SHALL BE INSTALLED ON SEPARATE POSTS. SEE ARDOT STANDARD DRAWING TC-1 FOR SIGN MOUNTING AND POST DETAILS.
11. WHEN CROSSWALKS OR OTHER PEDESTRIAN FACILITIES ARE CLOSED OR RELOCATED, TEMPORARY FACILITIES SHALL BE DETECTABLE AND SHALL INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY.
12. WHERE PUBLIC TRAFFIC AND/OR ACCESS IS INDICATED OR REQUIRED, THE CONTRACTOR SHALL PROVIDE TEMPORARY DRIVING AREAS INCLUDING TAPERS AND INTERSECTION RADII AS NECESSARY TO PROVIDE ACCESS FOR EMERGENCY VEHICLES INCLUDING FIRE TRUCKS. UNLESS INDICATED OTHERWISE, ALL CONTRACTOR SUPPLIED TEMPORARY DRIVING SURFACES SHALL BE 6-INCHES OF CLASS 7 AGGREGATE BASE COURSE ON PREPARED SUBGRADE. THIS CLASS 7 AGGREGATE BASE COURSE SHALL BE INCORPORATED INTO THE PERMANENT IMPROVEMENTS WHERE APPLICABLE OR WHERE DIRECTED. MINIMUM TEMPORARY LANE WIDTHS SHALL BE AS DIRECTED BY ENGINEER.

ADVANCED WARNING SIGN NOTES:

ADVANCE WARNING SIGNS SHOWN ON THIS SHEET SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO THE START OF ANY CONSTRUCTION.

ADVANCE WARNING SIGNS SHALL NOT OBSTRUCT THE VIEW OF AN EXISTING SIGN, BUT SHALL BE LOCATED IN A POSITION TO MAINTAIN CLEAR VISIBILITY.

ADDITIONAL SIGNS AS NECESSARY INCLUDING BUT NOT LIMITED TO SPEED REDUCTION, LANE SHIFTS, LANE CLOSURES, ETC..., SHALL BE PROPOSED BY THE CONTRACTOR WITHIN THE CONTRACTOR'S SUBMITTAL.

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GARVER LLC No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 10/12/2021

REV.	DATE	DESCRIPTION	BY

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

MAINTENANCE OF TRAFFIC NOTES

JOB NO.: 18017190
DATE: OCT. 2021
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-401

SHEET NUMBER **051**

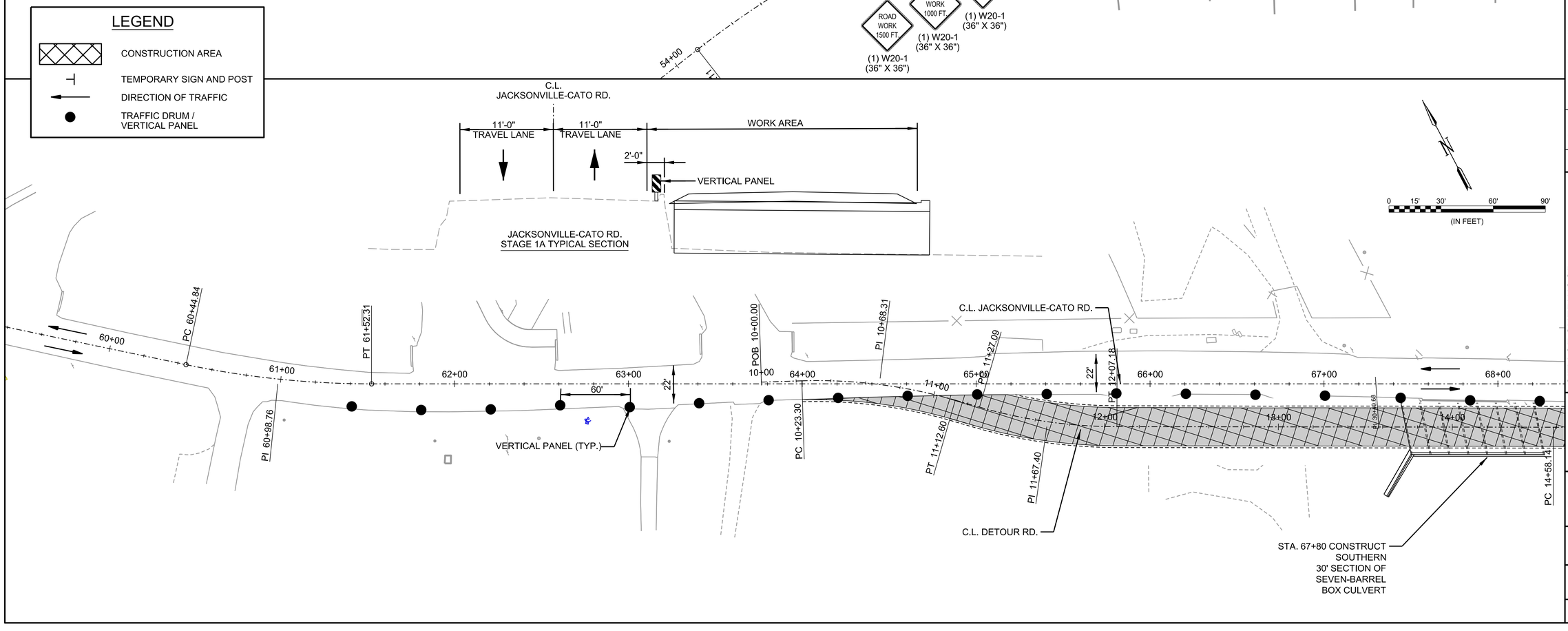
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STAGE 1A
CONSTRUCTION SEQUENCE NOTES

1. MAINTAIN TRAFFIC ON EXISTING JACKSONVILLE-CATO ROAD AND INSTALL ADVANCED WARNING SIGNS & DEVICES AS SHOWN
2. PLACE CONSTRUCTION PAVEMENT MARKINGS AS SHOWN FOR STAGE 1A.
3. CONSTRUCT DETOUR RD. AS SHOWN ON THE PLANS
4. PLACE CONSTRUCTION PAVEMENT MARKINGS SHOWN FOR STAGE 1B OF THE PLANS

LEGEND

- CONSTRUCTION AREA
- TEMPORARY SIGN AND POST
- DIRECTION OF TRAFFIC
- TRAFFIC DRUM / VERTICAL PANEL



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CERTIFICATE OF AUTHORIZATION — GARVER LLC No. 766 — ARKANSAS ENGINEER

STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No.16145 — CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	9/29/2022	REISSUED SHEET - UPDATED RCB CULVERT SEQUENCING	CMC
2	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

MAINTENANCE OF TRAFFIC PLANS STAGE 1A

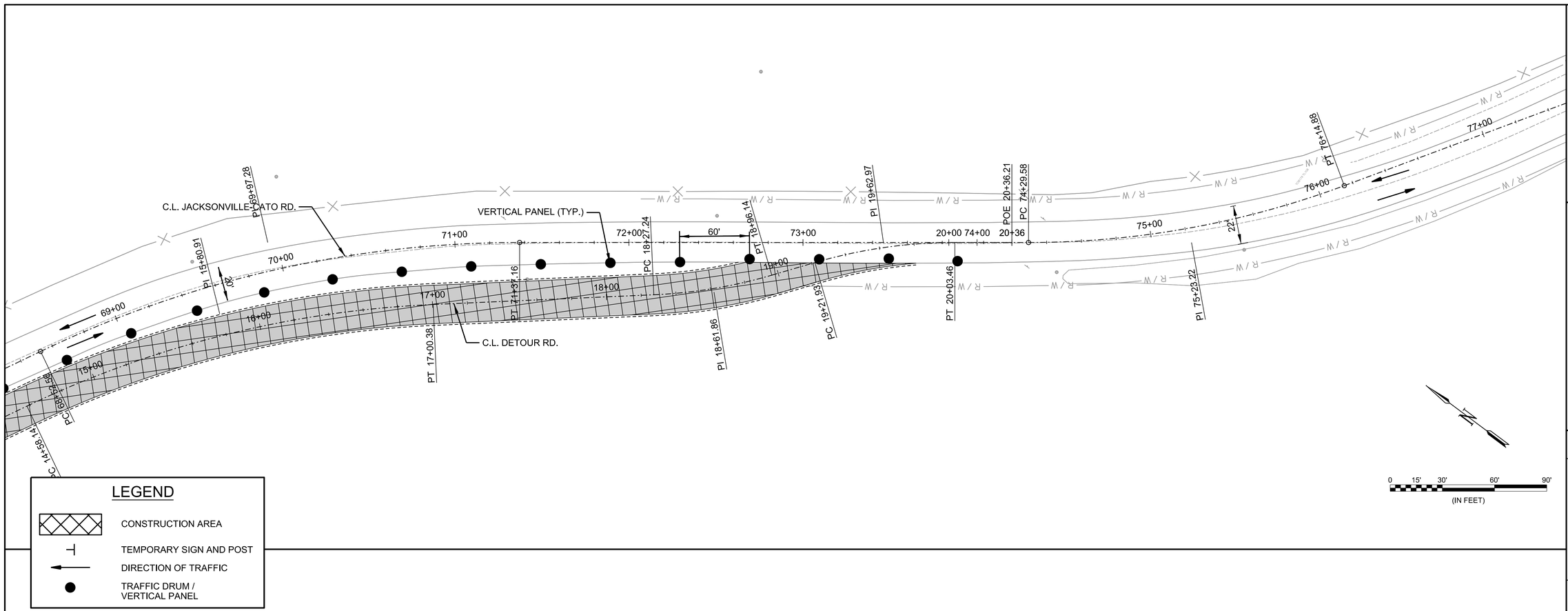
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DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: TBP

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DRAWING NUMBER
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LEGEND

- CONSTRUCTION AREA
- TEMPORARY SIGN AND POST
- DIRECTION OF TRAFFIC
- TRAFFIC DRUM / VERTICAL PANEL

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CERTIFICATE OF AUTHORIZATION
GARVER LLC No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

MAINTENANCE OF TRAFFIC PLANS - STAGE 1A

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: CMC

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DRAWING NUMBER
C-403

SHEET NUMBER **053**

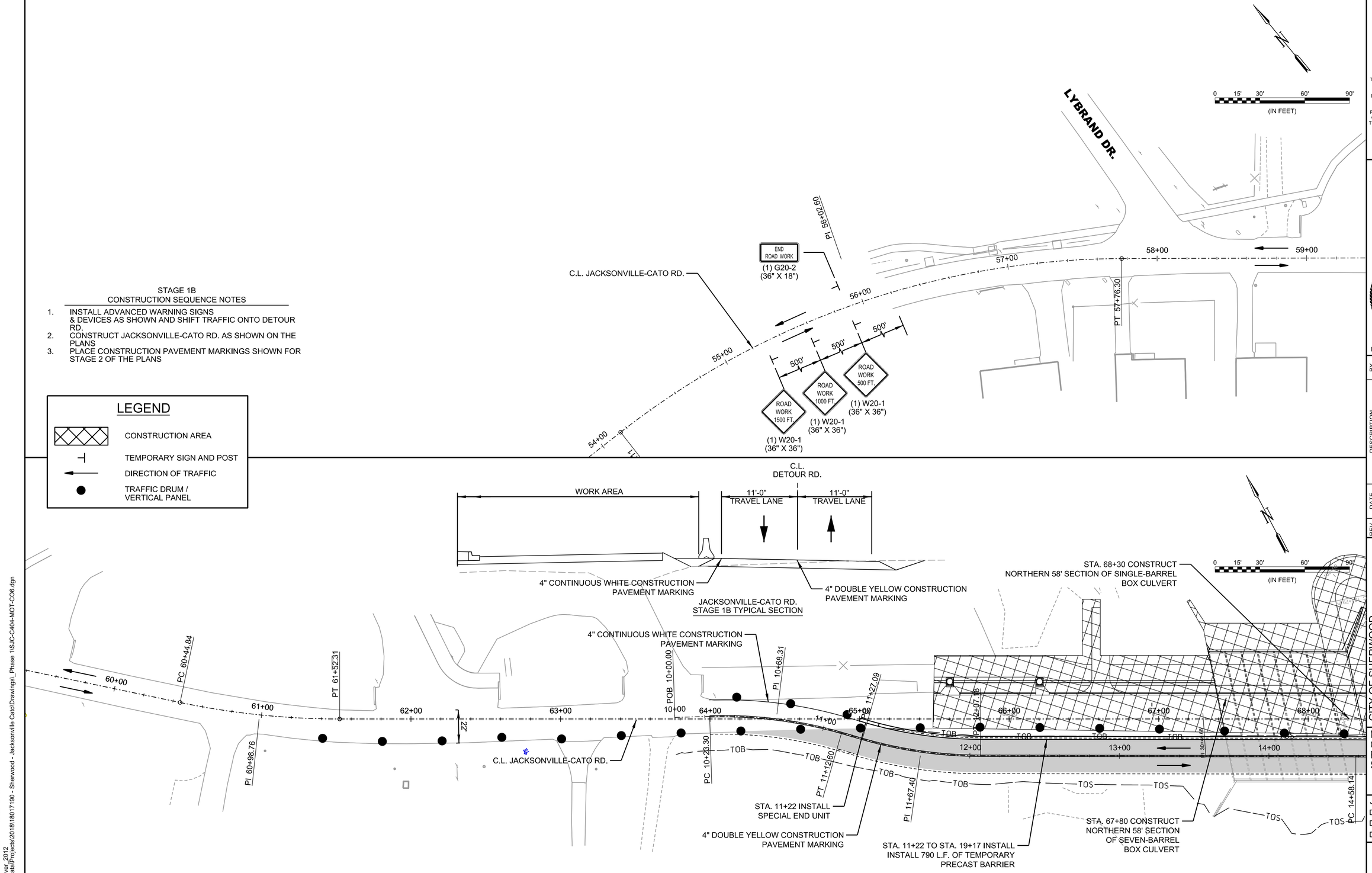
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STAGE 1B
CONSTRUCTION SEQUENCE NOTES

1. INSTALL ADVANCED WARNING SIGNS & DEVICES AS SHOWN AND SHIFT TRAFFIC ONTO DETOUR RD.
2. CONSTRUCT JACKSONVILLE-CATO RD. AS SHOWN ON THE PLANS
3. PLACE CONSTRUCTION PAVEMENT MARKINGS SHOWN FOR STAGE 2 OF THE PLANS

LEGEND

- CONSTRUCTION AREA
- TEMPORARY SIGN AND POST
- DIRECTION OF TRAFFIC
- TRAFFIC DRUM / VERTICAL PANEL



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STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No.16145 — CHARLES M. CULLEN

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REV.	DATE	DESCRIPTION	BY
1	9/29/2022	REISSUED SHEET - UPDATED RCB CULVERT SEQUENCING	CMC
2	6/8/2023	REISSUED SHEET - UPDATED CONSTRUCTION AREA	CMC

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

MAINTENANCE OF TRAFFIC PLANS STAGE 1B

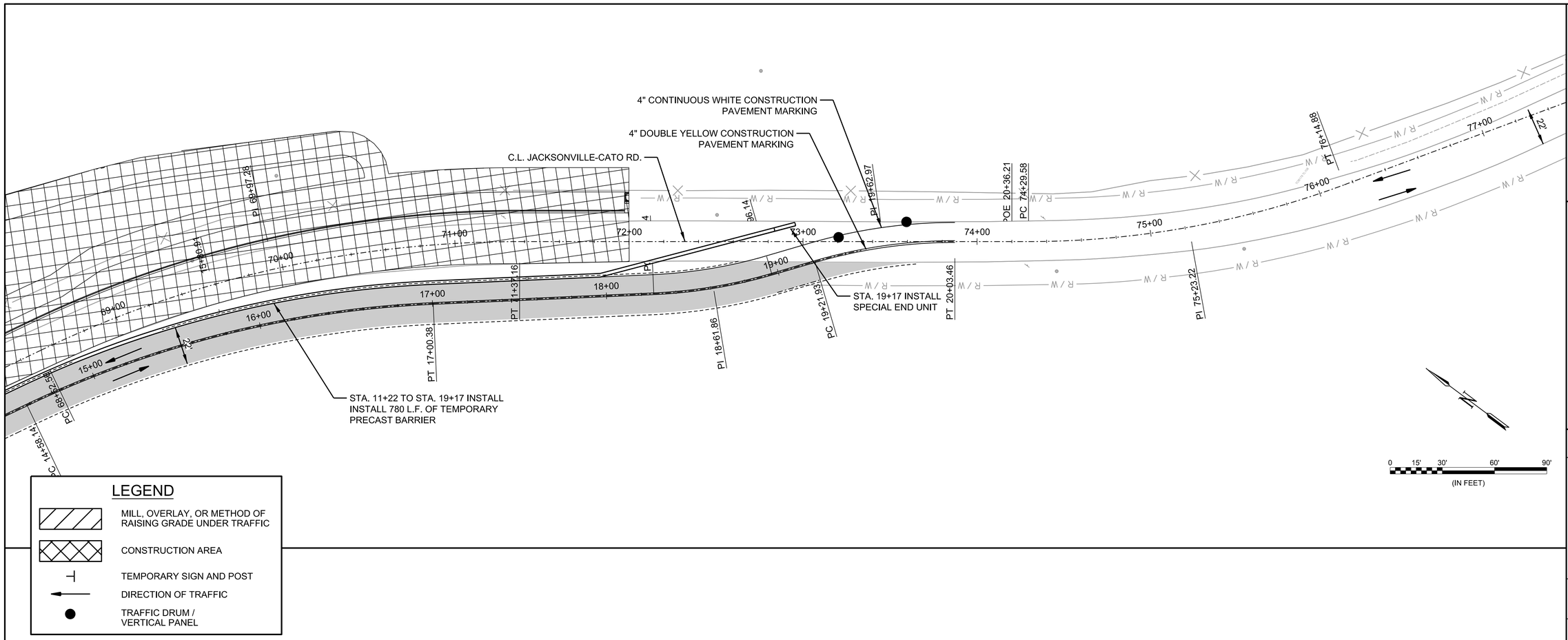
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DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: TBP

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DRAWING NUMBER
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LEGEND

- MILL, OVERLAY, OR METHOD OF RAISING GRADE UNDER TRAFFIC
- CONSTRUCTION AREA
- TEMPORARY SIGN AND POST
- DIRECTION OF TRAFFIC
- TRAFFIC DRUM / VERTICAL PANEL

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - UPDATED CONSTRUCTION AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

MAINTENANCE OF TRAFFIC PLANS - STAGE 1B

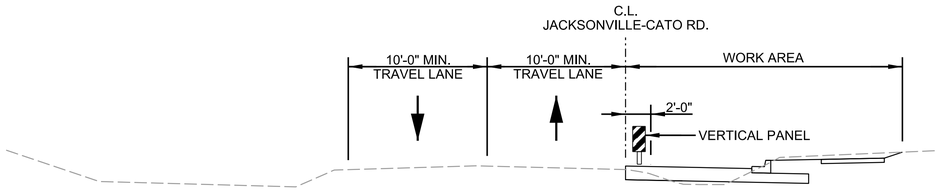
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DRAWING NUMBER
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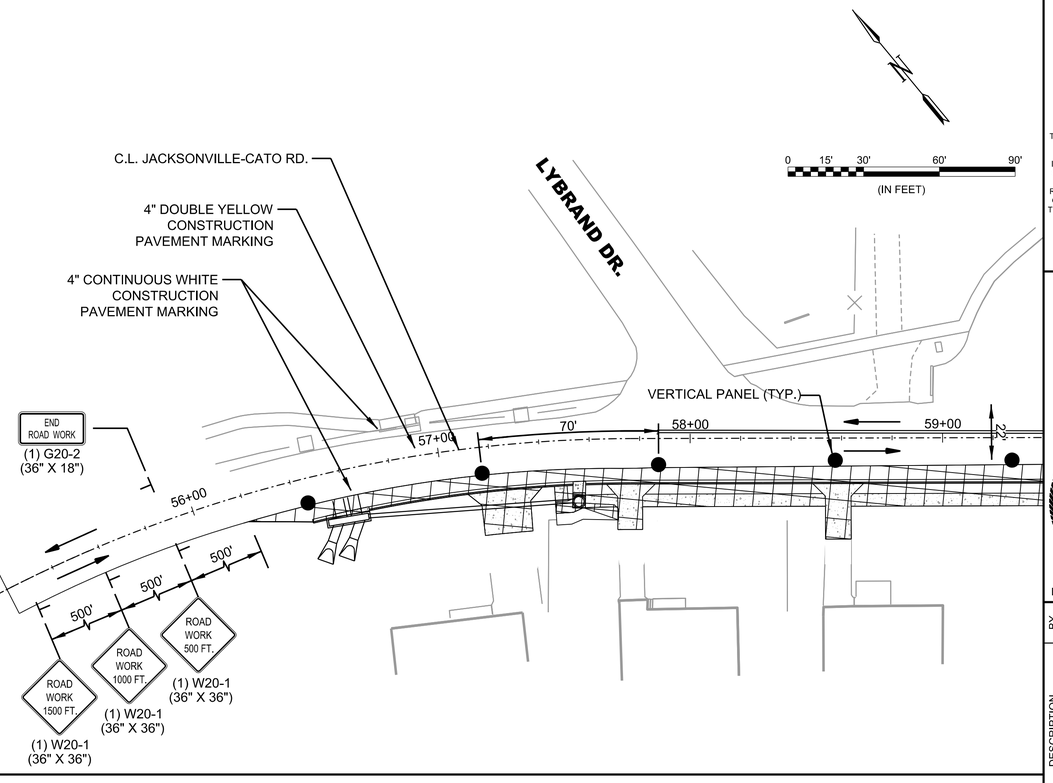
JACKSONVILLE-CATO RD.
STAGE 2 TYPICAL SECTION
STA 56+45.00 TO STA. 65+60.00

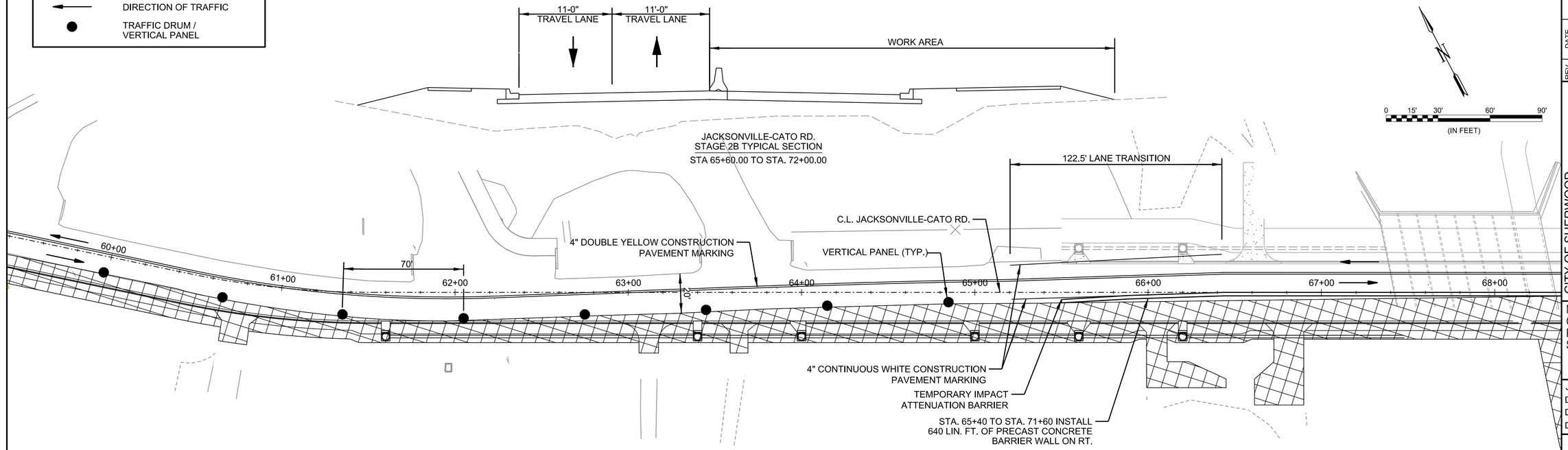
STAGE 2
CONSTRUCTION SEQUENCE NOTES

1. INSTALL ADVANCE WARNING SIGNS & DEVICES AS SHOWN AND SHIFT TRAFFIC ONTO JACKSONVILLECATO RD. AND PLACE VERTICAL PANELS AS SHOWN
2. CONSTRUCT THE SOUTH SIDE OF JACKSONVILLE-CATO RD. AS SHOWN ON THE PLANS
3. PLACE CONSTRUCTION PAVEMENT MARKINGS SHOWN FOR STAGE 3 OF THE PLANS

LEGEND

- CONSTRUCTION AREA
- TEMPORARY SIGN AND POST
- DIRECTION OF TRAFFIC
- TRAFFIC DRUM / VERTICAL PANEL





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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN
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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - UPDATED CONSTRUCTION AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

MAINTENANCE OF TRAFFIC PLANS
STAGE 2

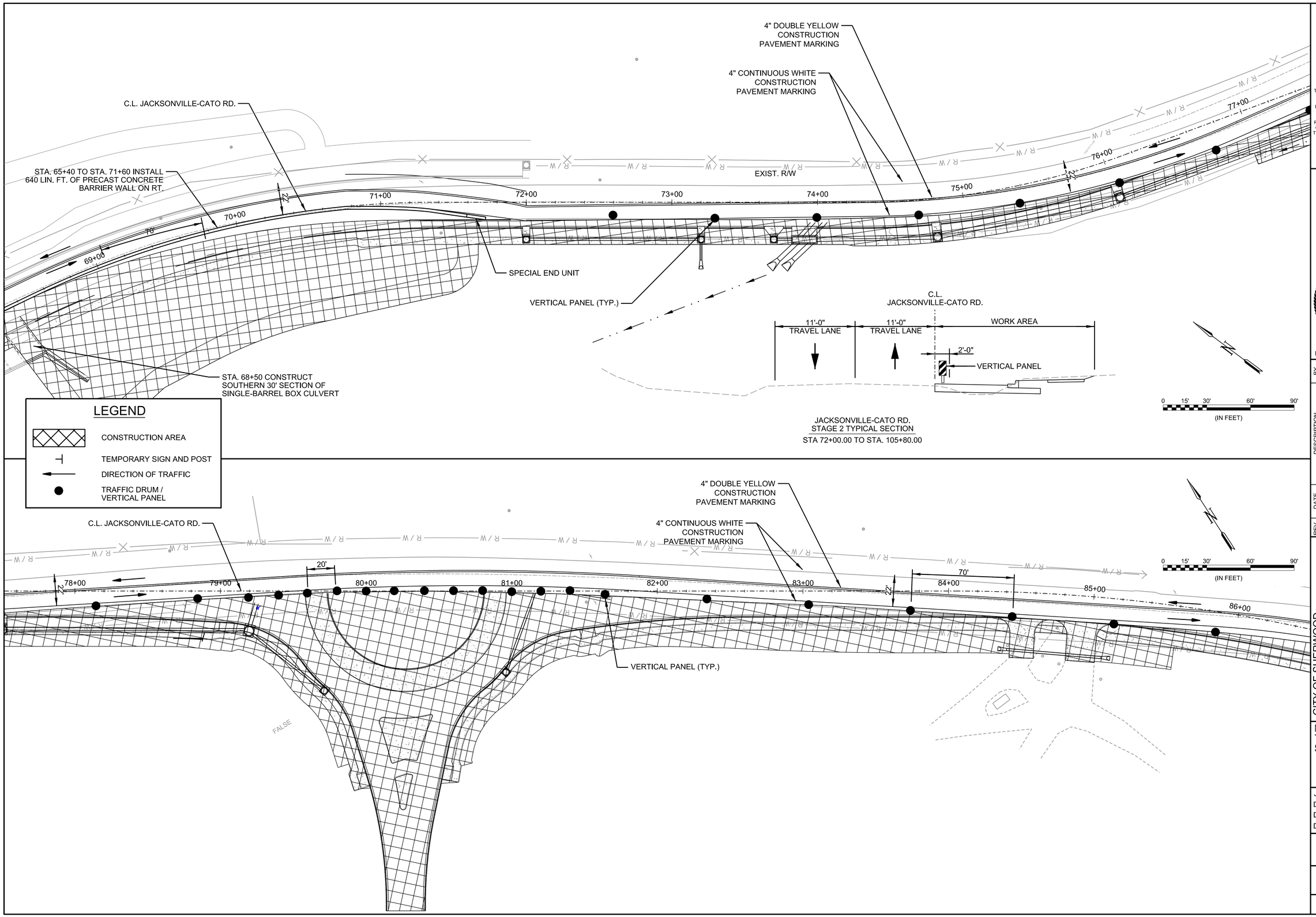
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: TBP

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C-406

SHEET NUMBER 056

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LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

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REV.	DATE	DESCRIPTION	BY
1	3/16/2022	ADJUSTED PLAN FOR ROUNDABOUT LEG ADDITION	CMC
2	9/29/2022	REISSUED SHEET - UPDATED RCB CULVERT SEQUENCING	CMC
3	6/8/2023	REISSUED SHEET - UPDATED CONSTRUCTION AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

MAINTENANCE OF TRAFFIC PLANS - STAGE 2

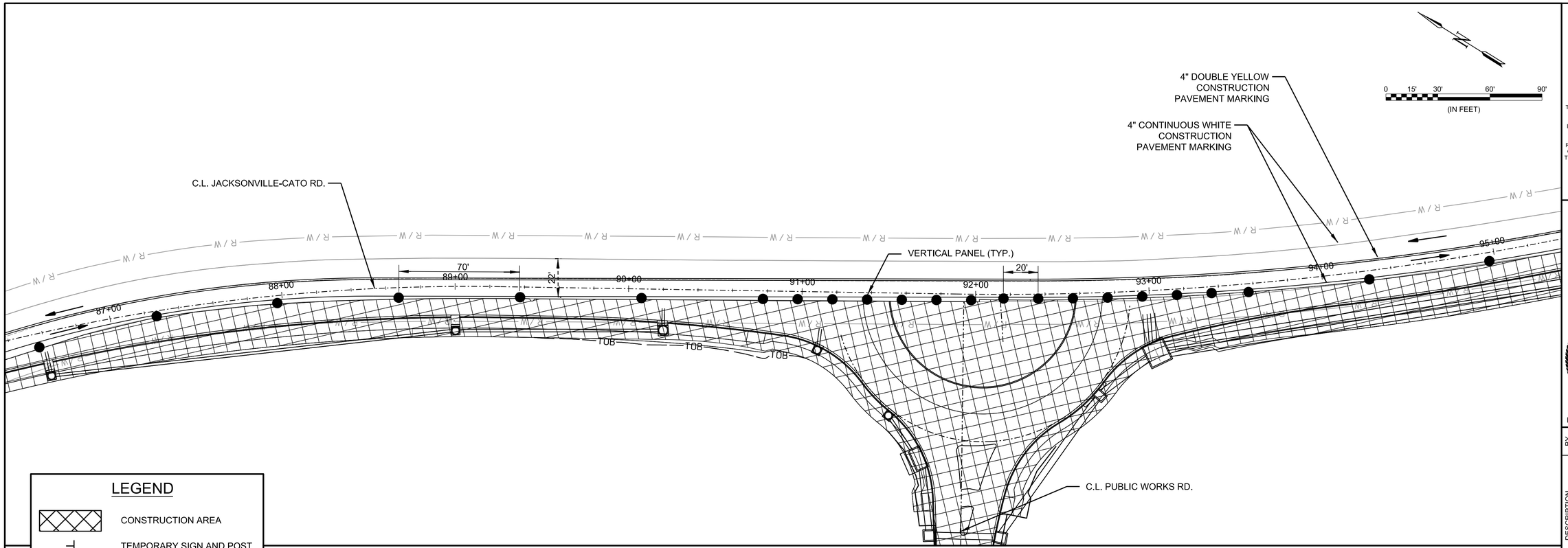
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DATE: JUNE 2023
DESIGNED BY: CMC
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C-407

SHEET NUMBER **059**

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STATE OF ARKANSAS
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No.16145
CHARLES M. CULLEN

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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - UPDATED CONSTRUCTION AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

MAINTENANCE OF TRAFFIC PLANS STAGE 2

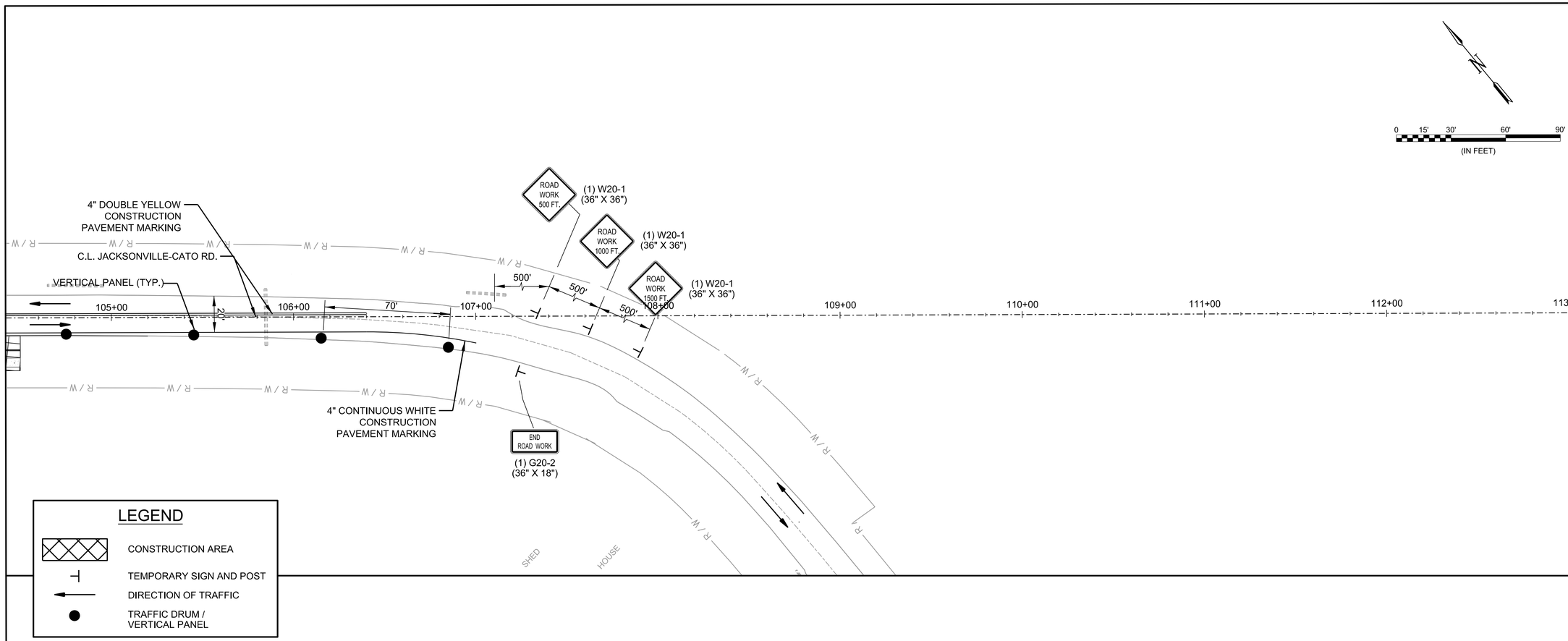
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: TBP

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DRAWING NUMBER
C-408

SHEET NUMBER **060**

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WORKSPACE:Garver_2012
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LEGEND

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- TRAFFIC DRUM / VERTICAL PANEL

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - UPDATED CONSTRUCTION AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

MAINTENANCE OF TRAFFIC PLANS
STAGE 2

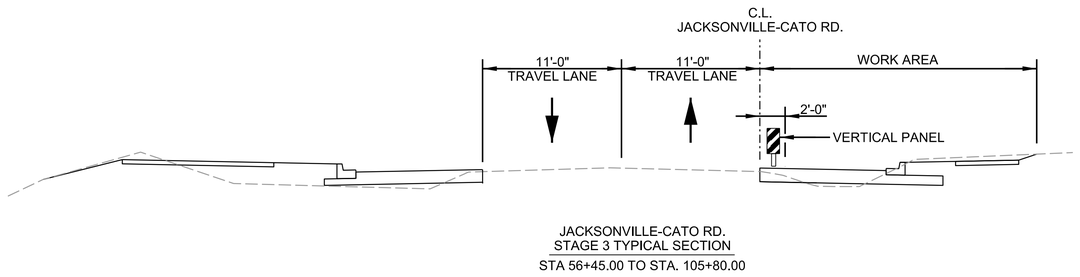
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DRAWING NUMBER
C-409

SHEET NUMBER **061**

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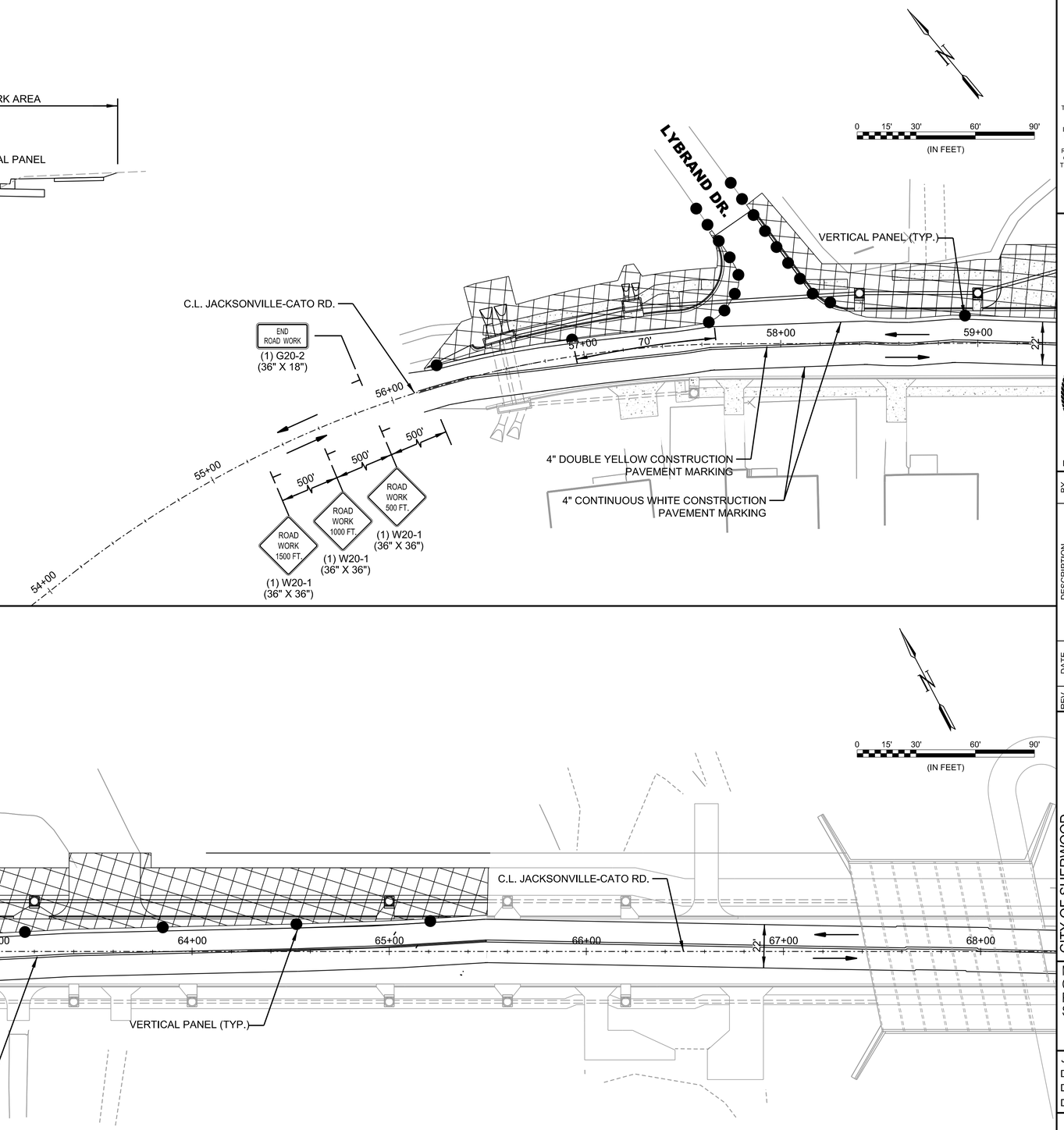
JACKSONVILLE-CATO RD.
STAGE 3 TYPICAL SECTION
STA 56+45.00 TO STA. 105+80.00

STAGE 3
CONSTRUCTION SEQUENCE NOTES

1. INSTALL ADVANCED WARNING SIGNS & DEVICES AS SHOWN AND MAINTAIN TRAFFIC ON JACKSONVILLECATO RD. AND PLACE VERTICAL PANELS AS SHOWN
2. CONSTRUCT THE SOUTH SIDE OF JACKSONVILLE-CATO RD. AS SHOWN ON THE PLANS
3. PLACE CONSTRUCTION PAVEMENT MARKINGS SHOWN FOR STAGE 3 OF THE PLANS

LEGEND

- CONSTRUCTION AREA
- TEMPORARY SIGN AND POST
- DIRECTION OF TRAFFIC
- TRAFFIC DRUM / VERTICAL PANEL



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CERTIFICATE OF AUTHORIZATION
GARVER LLC
No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - UPDATED CONSTRUCTION AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

MAINTENANCE OF TRAFFIC PLANS STAGE 3

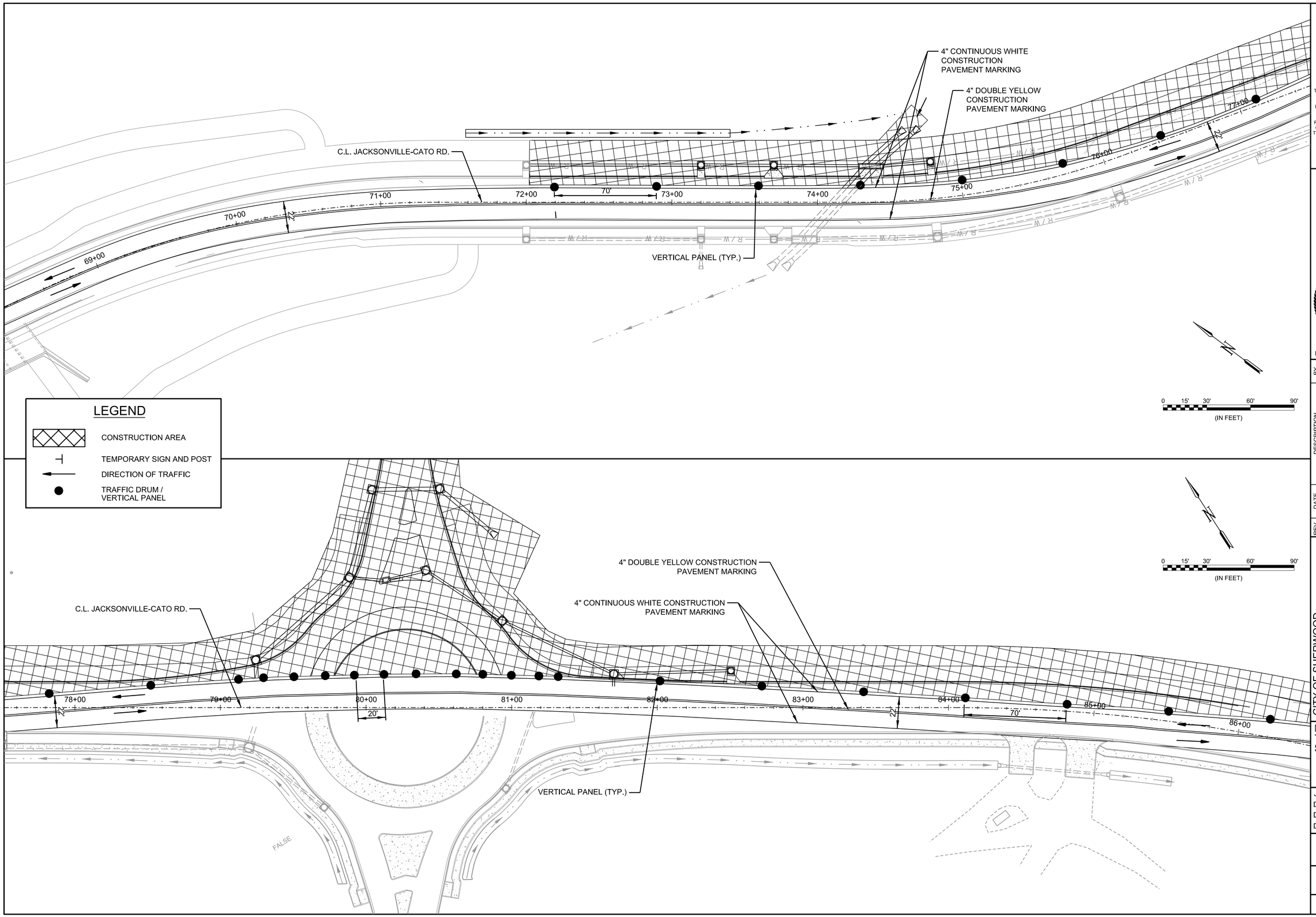
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: TBP

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DRAWING NUMBER
C-410

SHEET NUMBER **062**

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WORKSPACE:GARVER_2012



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CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - UPDATED CONSTRUCTION AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

MAINTENANCE OF TRAFFIC PLANS - STAGE 3

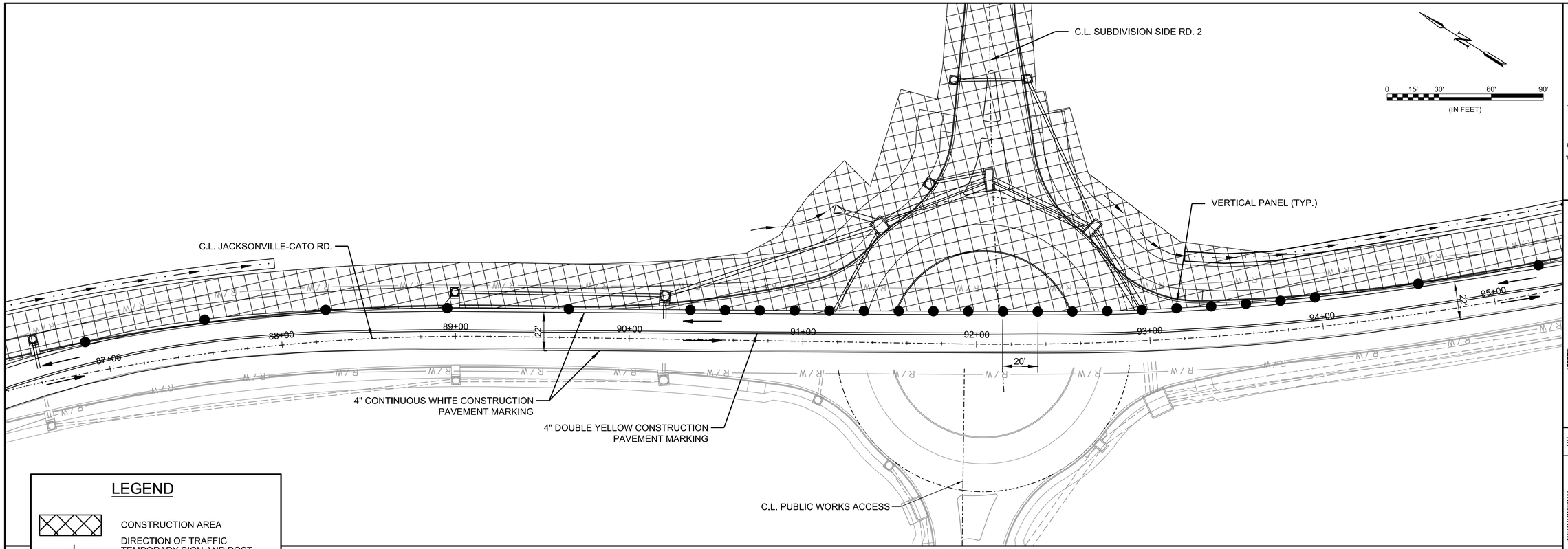
JOB NO.: 18017190
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DRAWN BY: CMC

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DRAWING NUMBER
C-411

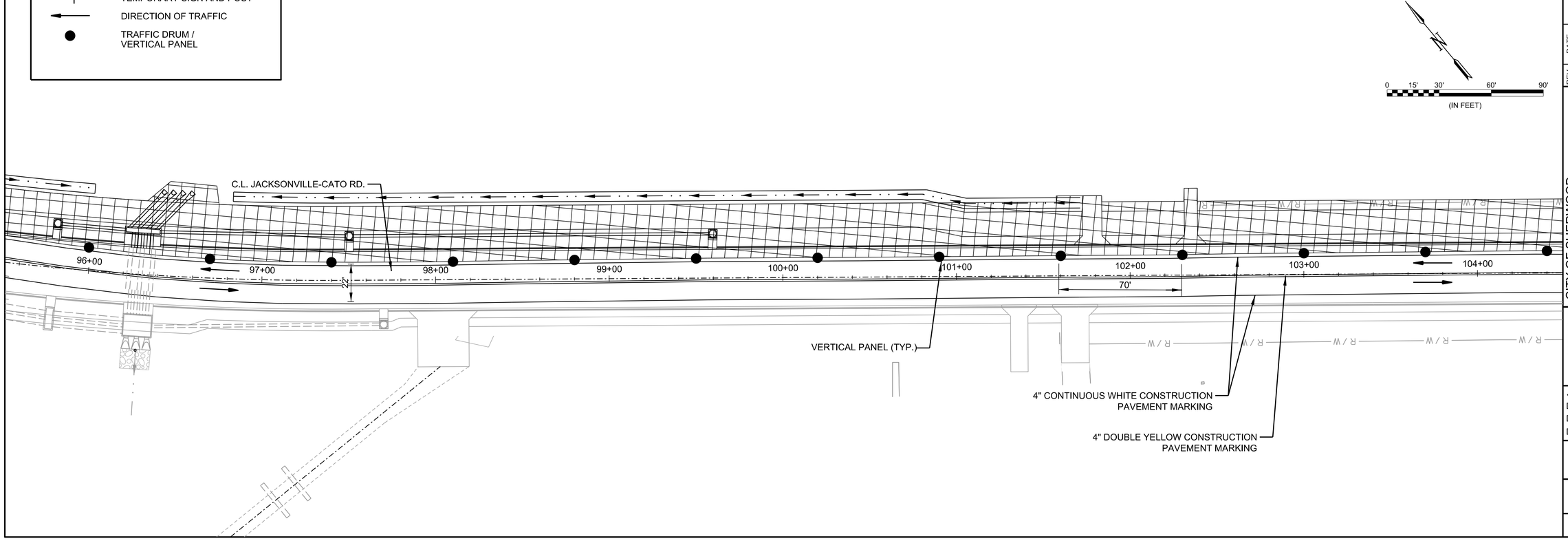
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WORKSPACE\Garver_2012



LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAFFIC TEMPORARY SIGN AND POST
- DIRECTION OF TRAFFIC
- TRAFFIC DRUM / VERTICAL PANEL



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GARVER LLC
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ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - UPDATED CONSTRUCTION AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

MAINTENANCE OF TRAFFIC PLANS
STAGE 3

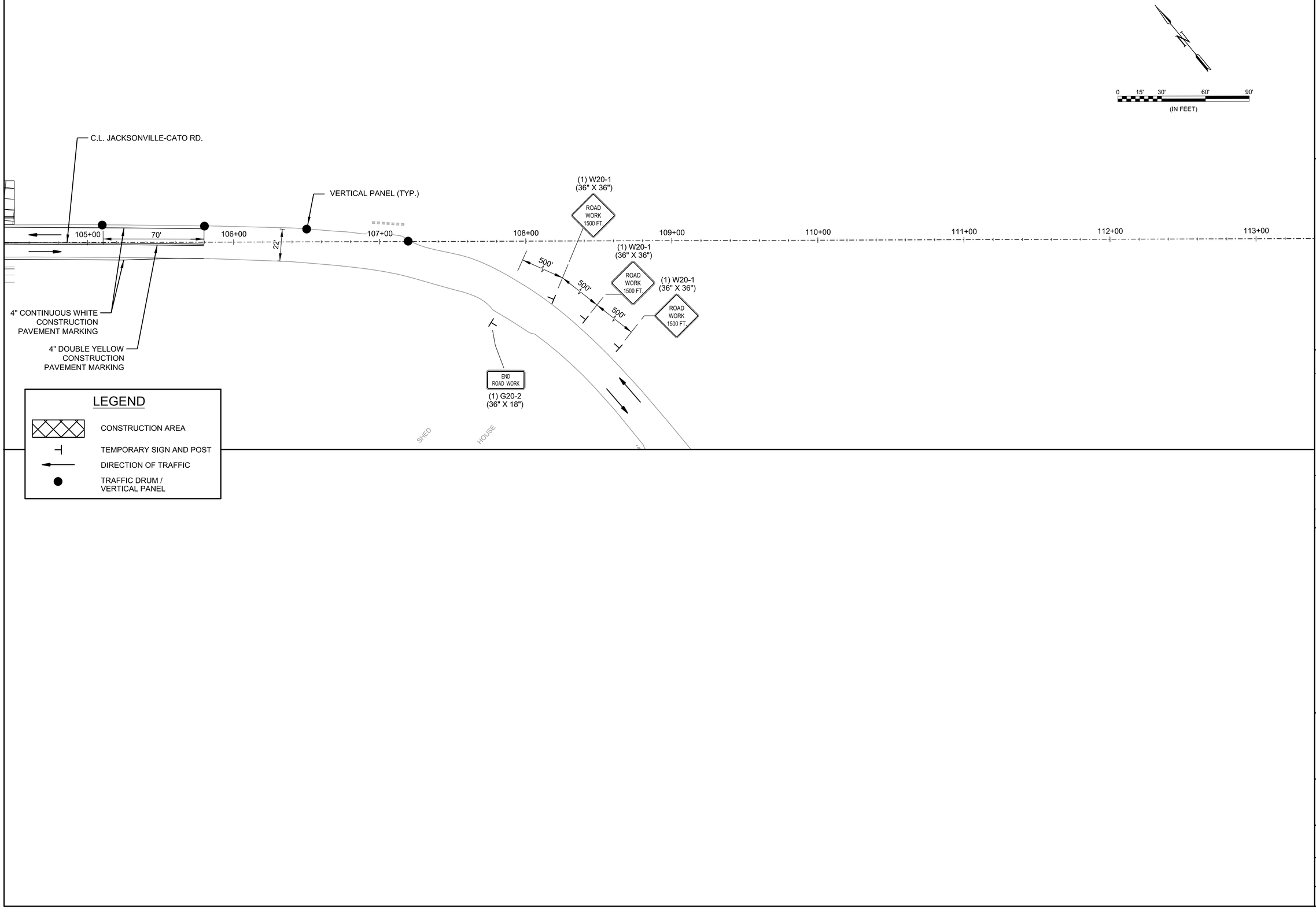
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: TBP

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SHEET NUMBER **064**

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PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

MAINTENANCE OF
TRAFFIC PLANS
STAGE 3

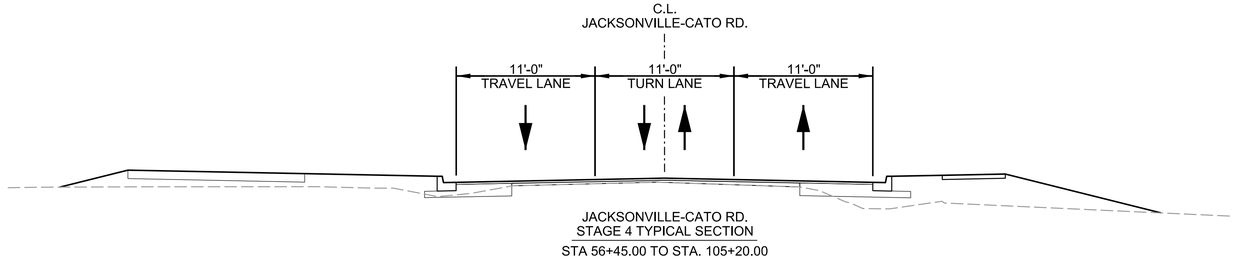
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SHEET NUMBER **065**

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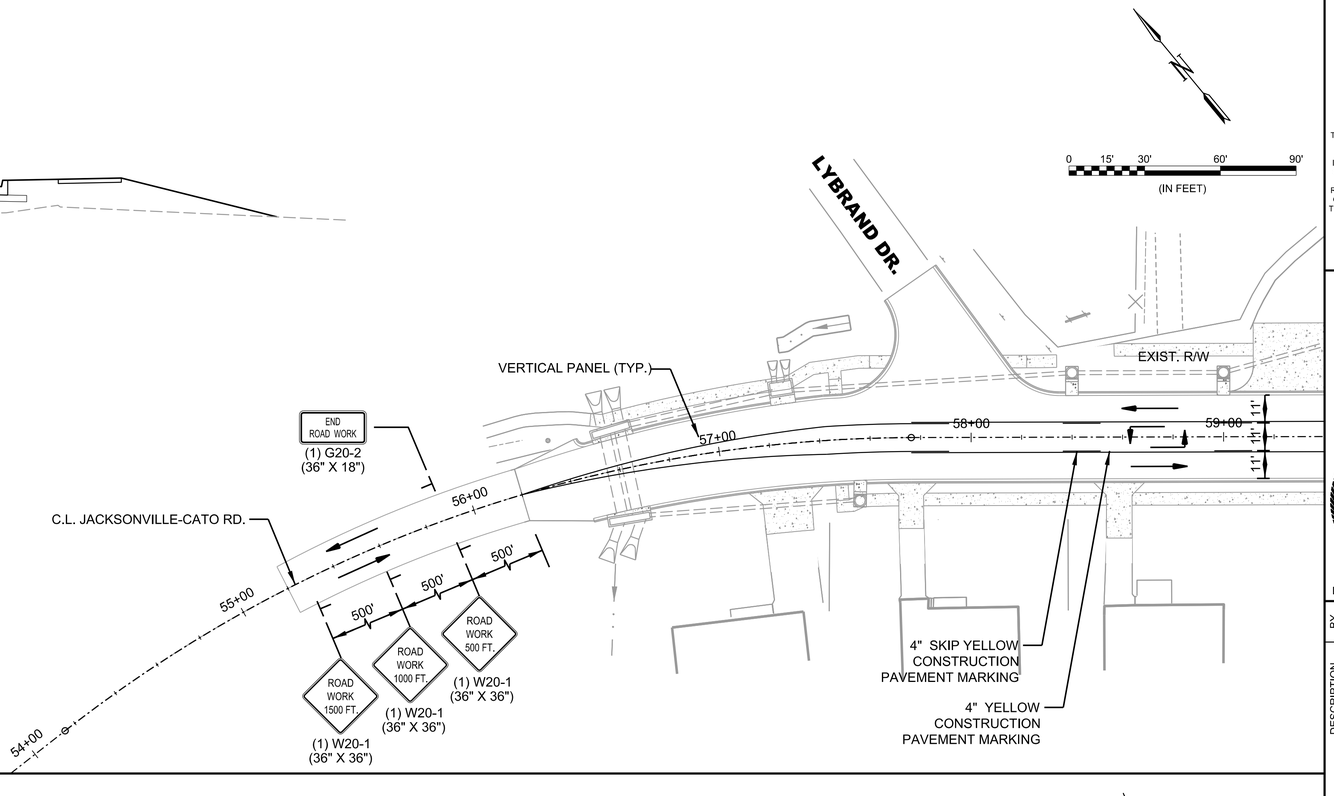
JACKSONVILLE-CATO RD.
STAGE 4 TYPICAL SECTION
STA 56+45.00 TO STA. 105+20.00

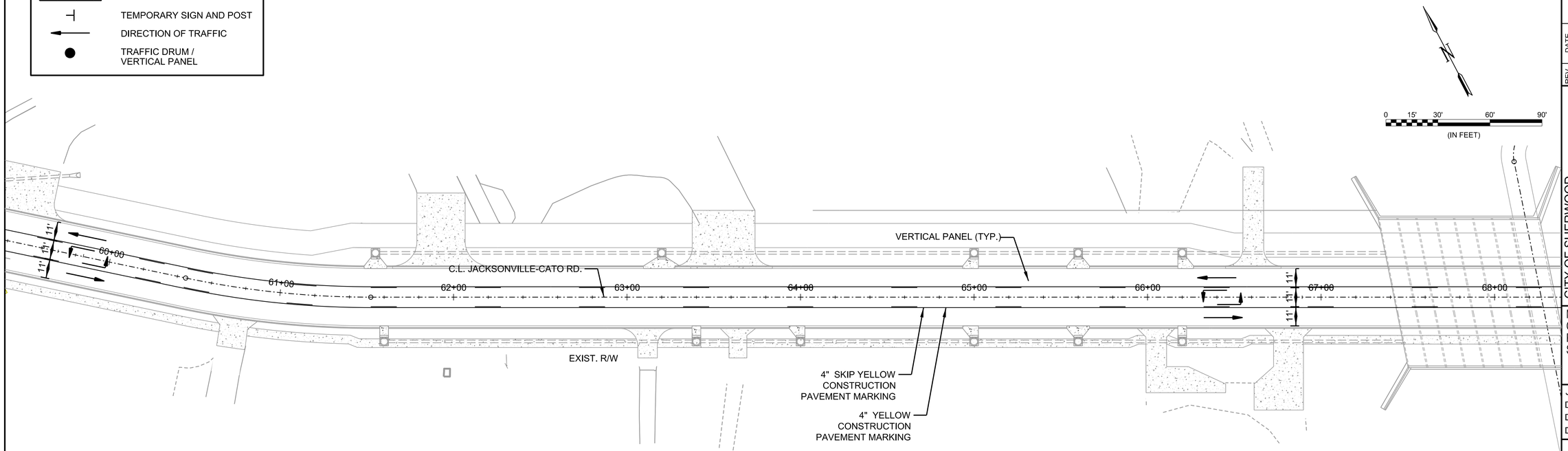
STAGE 4
CONSTRUCTION SEQUENCE NOTES

1. MAINTAIN TRAFFIC ON EXISTING JACKSONVILLE-CATO RD. AND PLACE VERTICAL PANELS AS SHOWN
2. PLACE ACHM PAVING UNDER TRAFFIC TO 2" BELOW FINAL GRADE AS SHOWN.
3. CONSTRUCT THE MEDIANS OF JACKSONVILLE-CATO RD. AS SHOWN ON THE PLANS
4. CONSTRUCT REMAINING CURB, ISLANDS, AND STRUCTURES ON JACKSONVILLE-CATO RD. AND CIRCULATORY ROADWAYS
5. PLACE FINAL ACHM SURFACE COURSE AND STRIPING

LEGEND

- CONSTRUCTION AREA
- ACHM PAVING UNDER TRAFFIC
- TEMPORARY SIGN AND POST
- DIRECTION OF TRAFFIC
- TRAFFIC DRUM / VERTICAL PANEL





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1	6/8/2023	REISSUED SHEET - UPDATED CONSTRUCTION AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

MAINTENANCE OF TRAFFIC PLANS STAGE 4

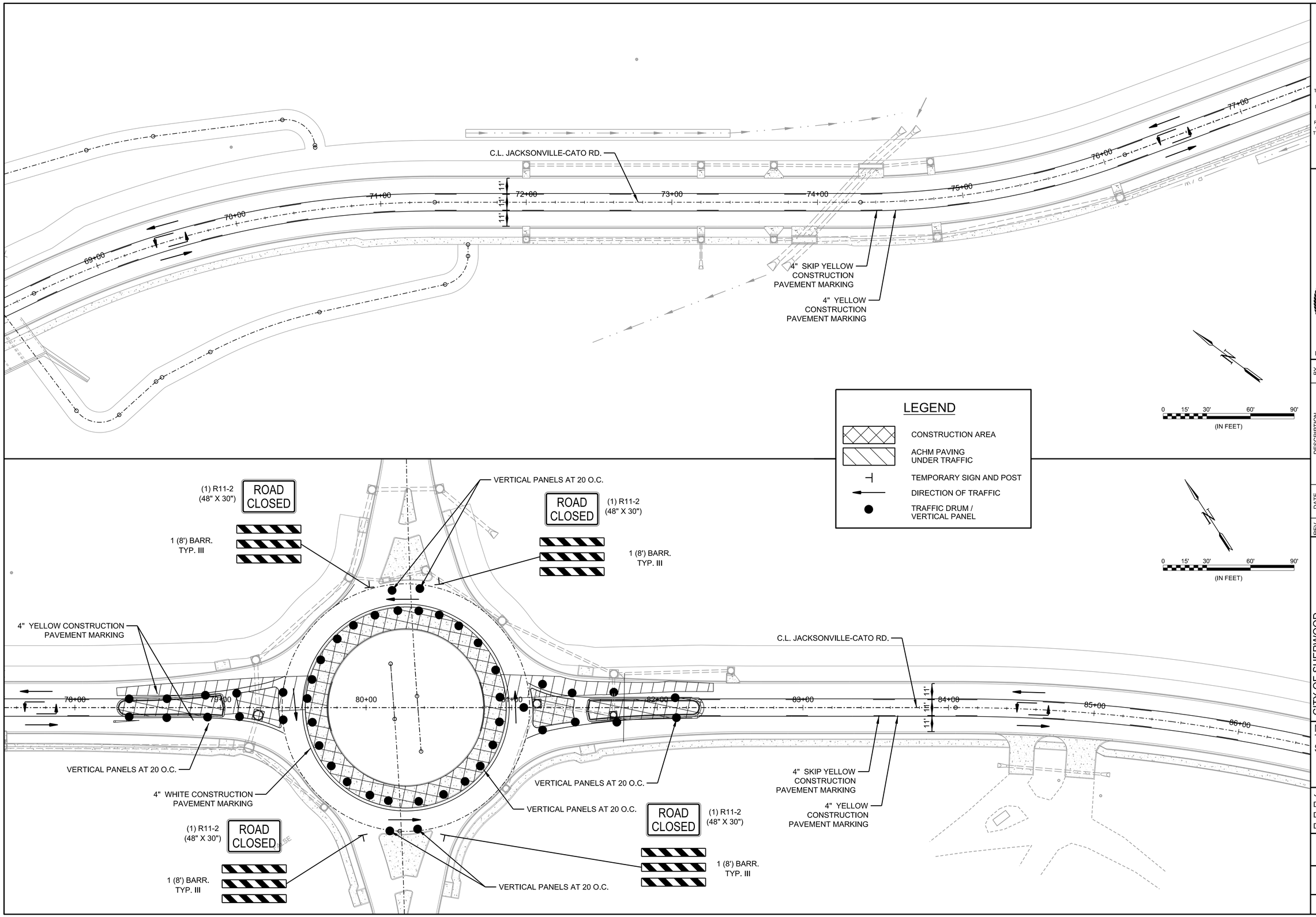
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DATE: SEP. 2022
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REV.	DATE	DESCRIPTION	BY
1	9/29/2022	ADJUSTED PLAN FOR ROUNDABOUT LEG ADDITION	CMC
2	6/8/2023	REISSUED SHEET - UPDATED CONSTRUCTION AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

MAINTENANCE OF TRAFFIC PLANS - STAGE 4

JOB NO.: 18017190
DATE: JUNE 2023
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DRAWN BY: CMC

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SHEET NUMBER **065**

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(1) R11-2
(48" X 30")
ROAD CLOSED
1 (8') BARR.
TYP. III
VERTICAL PANELS AT 20 O.C.
VERTICAL PANEL (TYP.)
4" SKIP YELLOW
CONSTRUCTION
PAVEMENT MARKING
4" YELLOW
CONSTRUCTION
PAVEMENT MARKING
4" WHITE CONSTRUCTION
PAVEMENT MARKING
87+00
88+00
89+00
90+00
91+00
92+00
93+00
94+00
95+00
11'
0 15' 30' 60' 90'
(IN FEET)

LEGEND

- CONSTRUCTION AREA
- ACHM PAVING UNDER TRAFFIC
- TEMPORARY SIGN AND POST
- DIRECTION OF TRAFFIC
- TRAFFIC DRUM / VERTICAL PANEL

C.L. JACKSONVILLE-CATO RD.
96+00
97+00
98+00
99+00
100+00
101+00
102+00
103+00
104+00
10'
R / W

GARVER

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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

MAINTENANCE OF TRAFFIC PLANS STAGE 4

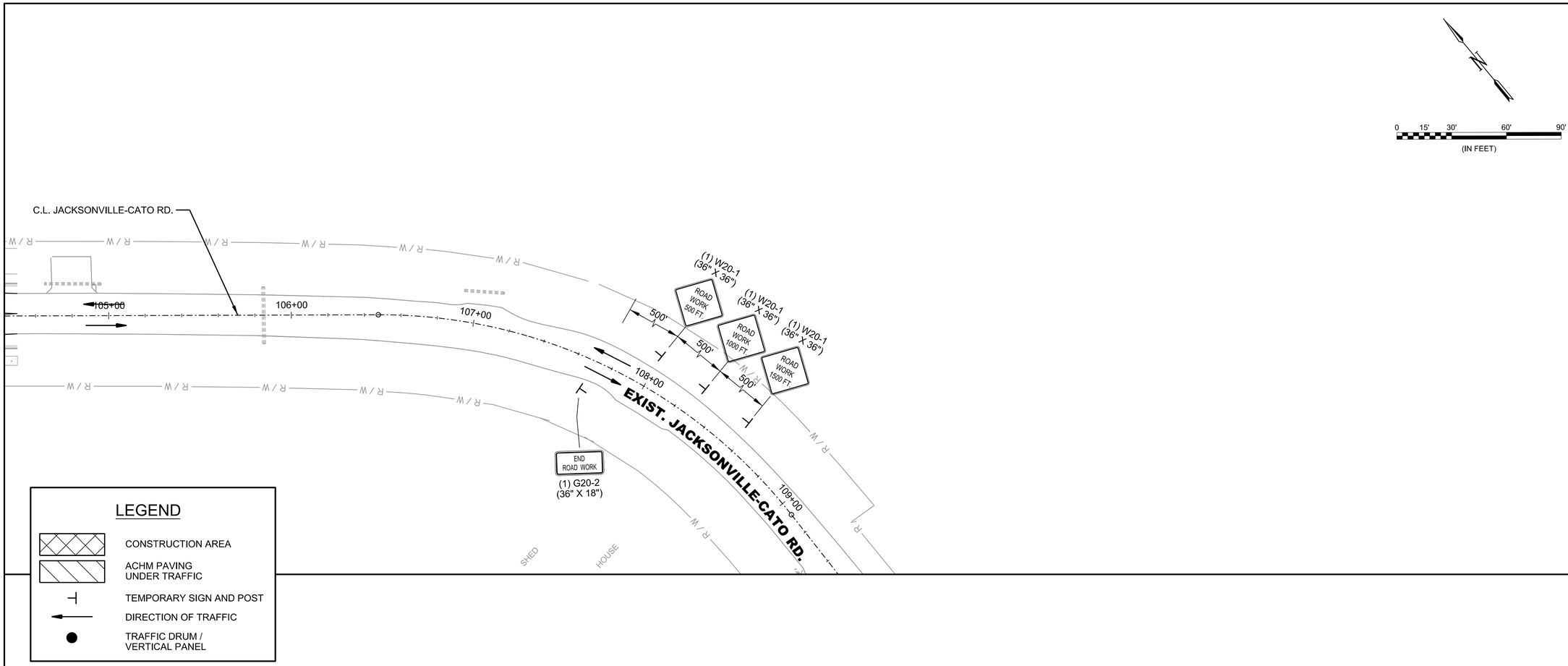
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DESIGNED BY: CMC
DRAWN BY: TBP

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C-416

SHEET NUMBER **066**

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WORKSPACE:Garver_2012
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0 15' 30' 60' 90'

(IN FEET)

LEGEND

- CONSTRUCTION AREA
- ACHM PAVING UNDER TRAFFIC
- TEMPORARY SIGN AND POST
- DIRECTION OF TRAFFIC
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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - UPDATED CONSTRUCTION AREA	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

MAINTENANCE OF TRAFFIC PLANS STAGE 4

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WORKSPACE:Garver_2012
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CAUTION:
Underground Utilities exist within and adjacent to the limits of construction and an attempt has been made to locate these Utilities on the plans. However, all existing utilities may not be shown and the actual locations of the utilities may vary from the locations shown. Prior to beginning any type of excavation, the Contractor shall contact the utilities involved and make arrangements for the location of the utilities on the ground. The Contractor shall maintain the utility location markings until they are no longer necessary.

Arkansas State Law, the Underground Facilities Damage Prevention Act, requires two working days advance notification through the Arkansas One-Call System Center before excavating using mechanized equipment or explosives (except in the case of an emergency). The One-Call System phone number is 1-800-482-8998. The Contractor is advised that there is a severe penalty for not making this call. Not all Utility Companies are members of the Arkansas One-Call System; Therefore, the Contractor is advised to contact all non-member utilities, as well as the One-Call System.

SURVEY CONTROL POINTS

POINT NO.	NORTHING	EASTING	STATION	OFFSET	ELEVATION	DESCRIPTION
23	196442.9961	1250721.5487	~~123+04.71~~	~~216.38 LT.~~	250.93	PK NAIL
27	196639.4070	1250431.3446	~~120+16.98~~	~~416.41 LT.~~	247.18	5/8" REBAR
28	196626.7742	1250228.2802	~~117+09.98~~	~~29.44 RT.~~	256.91	1/2" REBAR
29	196491.9967	1250224.6328	~~114+56.12~~	~~135.87 RT.~~	251.69	5/8" REBAR
30	196457.2702	1250414.5811	~~116+24.91~~	~~42.08 RT.~~	245.52	5/8" REBAR
31	196371.4767	1249784.0047	~~111+92.25~~	~~509.77 RT.~~	248.12	5/8" REBAR
34	197192.0426	1249648.0398	105+66.17	38.81 LT.	256.05	5/8" REBAR
37	197615.5758	1249120.4649	98+89.67	30.99 LT.	269.11	5/8" REBAR
41	197792.2596	1248923.7590	96+22.52	37.99 LT.	260.65	5/8" REBAR
42	197954.5962	1248784.1373	94+02.81	44.33 LT.	264.61	5/8" REBAR
43	198135.3926	1248673.7909	91+84.61	56.67 LT.	267.85	5/8" REBAR
44	198541.4184	1248378.0557	86+90.29	37.80 LT.	282.17	5/8" REBAR
45	198328.7291	1248478.7271	89+18.28	10.66 RT.	273.11	5/8" REBAR
46	198169.2183	1248572.1462	91+03.20	12.96 RT.	266.77	5/8" REBAR
47	197937.2205	1248719.8437	93+76.60	16.99 RT.	262.35	5/8" REBAR
48	197692.8975	1249020.6137	97+63.43	27.32 LT.	264.20	5/8" REBAR
50	198829.9393	1247915.2166	81+51.33	7.62 RT.	281.23	5/8" REBAR
51	199014.7667	1247693.9479	78+65.18	27.53 LT.	279.08	5/8" REBAR
52	199151.5595	1247404.8620	75+50.27	18.62 RT.	270.52	5/8" REBAR
53	199128.3984	1247637.9913	77+56.51	92.60 LT.	274.37	5/8" REBAR
54	198911.5667	1247904.6993	80+98.20	55.24 LT.	278.63	5/8" REBAR
55	198768.8845	1248102.2177	83+41.53	42.60 LT.	282.11	5/8" REBAR
56	199293.6391	1247482.8954	75+07.26	139.09 LT.	270.00	5/8" REBAR
57	199435.2208	1247320.7261	72+75.83	98.09 LT.	273.66	5/8" REBAR
58	199622.2721	1247105.8243	70+07.06	52.13 LT.	266.30	5/8" REBAR
65	200316.3571	1245915.7274	56+35.45	17.85 LT.	268.28	5/8" REBAR
69	199676.0215	1246885.8951	67+98.31	22.46 RT.	255.97	5/8" REBAR
71	199721.8738	1246891.8754	67+82.33	20.93 LT.	256.44	5/8" REBAR
100	185144.4995	1242885.5978	N/A	N/A	431.44	CTL ALUM MON
101	184680.4768	1243169.1445	N/A	N/A	404.03	CTL ALUM MON
103	198234.2330	1250795.2403	106+77.17	1577.15 LT.	267.57	PK NAIL
900	178615.3303	1242931.5706	N/A	N/A	338.26	GPS ALUM MON

Basis of Bearing: Arkansas State Plane North Zone based on ARDOT control points 100 AND 101 from previous job (Maryland Ave.). Elevation was based on ARDOT BM 60064, which was converted from NAVD 88. CAF = 0.9999991244

Note: Points 100, 101, and ARDOT BM are south of the site. These points are not shown in the drawing.

JACKSONVILLE-CATO RD. COORDINATES

STATION	TYPE	NORTHING	EASTING
53+00.00	POB	200352.8364	1245580.0574
54+15.11	PC	200349.7516	1245695.1227
56+02.60	PI	200344.7268	1245882.5488
57+76.30	PT	200225.5645	1246027.3043
60+44.84	PC	200054.8945	1246234.6302
60+98.76	PI	200020.6220	1246276.2636
61+52.31	PT	199995.6055	1246324.0352
68+52.56	PC	199670.7513	1246944.3782
69+97.28	PI	199603.6157	1247072.5808
71+37.16	PT	199487.6552	1247159.1616
74+29.58	PC	199253.3427	1247334.1089
75+23.22	PI	199178.3082	1247390.1328
76+14.88	PT	199127.4854	1247468.7833
84+04.79	PC	198698.7768	1248132.2289
86+70.10	PI	198554.7821	1248355.0670
89+26.23	PT	198327.5027	1248491.9441
91+88.83	PC	198102.5472	1248627.4216
94+70.46	PI	197861.2885	1248772.7176
97+46.63	PT	197682.4567	1248990.2856
106+58.08	PC	197103.7012	1249694.4036

CIRCULATORY ROADWAY 1 COORDINATES

STATION	TYPE	NORTHING	EASTING
10+00.00	PC	198834.6504	1247765.5402
15+34.07	PT	198834.6504	1247765.5402

CIRCULATORY ROADWAY 2 COORDINATES

STATION	TYPE	NORTHING	EASTING
30+00.00	PC	198055.0265	1248557.6653
35+34.07	PT	198055.0265	1248557.6653

UNDERPASS ACCESS COORDINATES

STATION	TYPE	NORTHING	EASTING
100+00.00	POB	199452.0024	1247149.5898
100+07.93	PC	199447.2580	1247143.2355
100+24.00	PI	199437.6409	1247130.3550
100+35.01	PT	199448.1515	1247118.1927
101+23.34	PC	199505.9066	1247051.3615
101+63.64	PI	199532.2540	1247020.8736
102+03.45	PT	199549.6227	1246984.5138
102+40.89	PC	199565.7598	1246950.7322
102+43.41	PI	199566.8464	1246948.4577
102+45.90	PT	199567.3345	1246945.9847
102+79.96	PC	199573.9304	1246912.5701
103+01.84	PI	199578.1670	1246891.1075
103+13.17	PT	199599.1645	1246897.2470
104+79.79	PC	199759.0900	1246944.0076
105+27.36	PI	199762.6934	1246980.9538
105+29.62	PT	199806.9175	1246957.9918
105+48.55	PC	199743.8821	1246990.7210
105+53.08	PI	199739.8628	1246992.8079
105+57.46	PT	199737.1346	1246996.4227
106+17.85	PC	199700.7573	1247044.6216
106+41.35	PI	199686.5968	1247063.3839
106+64.76	PT	199669.6868	1247079.7117
107+54.19	PC	199605.3529	1247141.8307
107+74.30	PI	199590.8883	1247155.7973
107+85.71	PT	199576.9991	1247141.2584
107+87.31	POE	199575.8937	1247140.1013

DETOUR RD. COORDINATES

STATION	TYPE	NORTHING	EASTING
10+00.00	POB	199892.5318	1246523.0809
10+23.30	PC	199882.3637	1246544.0463
10+68.31	PI	199862.7213	1246584.5470
11+12.60	PT	199831.6048	1246617.0722
11+39.78	PC	199812.8163	1246636.7113
11+80.08	PI	199784.9511	1246665.8381
12+19.87	PT	199766.2053	1246701.5234
14+66.87	PC	199651.3373	1246920.1906
15+89.65	PI	199594.2403	1247028.8827
17+09.11	PT	199499.1951	1247106.6031
18+27.02	PC	199407.9196	1247181.2410
18+61.64	PI	199381.1219	1247203.1540
18+95.92	PT	199360.3149	1247230.8193
19+21.71	PC	199344.8130	1247251.4310
19+62.75	PI	199320.1423	1247284.2336
20+03.24	PT	199287.2536	1247308.7897
20+35.99	POE	199261.0170	1247328.3790

SUBDIVISION SIDE ROAD 1 COORDINATES

STATION	TYPE	NORTHING	EASTING
10+00.00	POB	198872.6546	1247807.6279
10+38.10	PC	198906.0844	1247825.9099
11+43.07	PI	198998.1758	1247876.2727
12+47.93	PT	199086.3346	1247933.2396
14+00.00	POE	199214.0553	1248015.7708

SUBDIVISION SIDE ROAD 2 COORDINATES

STATION	TYPE	NORTHING	EASTING
20+00.00	POB	198065.0284	1248618.3241
20+36.79	PC	198086.4742	1248648.2137
21+51.88	PI	198153.5720	1248741.7295
22+66.86	PT	198212.9513	1248840.3267
23+00.00	POE	198230.0497	1248868.7180

SUBDIVISION SIDE ROAD 3 COORDINATES

STATION	TYPE	NORTHING	EASTING
30+00.00	POB	198635.2281	1247641.7413
31+02.07	PC	198720.9535	1247697.1358
32+07.03	PI	198809.1123	1247754.1027
33+11.90	PT	198901.2036	1247804.4655
33+50.00	POE	198934.6335	1247822.7476

PUBLIC WORKS ROAD COORDINATES

STATION	TYPE	NORTHING	EASTING
40+00.00	POB	197974.4551	1248424.9297
42+39.55	POE	198098.7552	1248629.7053

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CERTIFICATE OF AUTHORIZATION
GARVER LLC No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	02/02/22	ADDED UNDERPASS ACCESS COORDINATES	CMC
2	3/16/2022	ADDED SUBDIVISION SIDEROAD 3 COORDINATES	CMC
3	06/17/2022	EDITED DETOUR RD. STATIONING/ COORDINATES	CMC
4	6/8/2023	REISSUED SHEET - UPDATED S.C. POINTS, ALIGNMENTS	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

SURVEY CONTROL DETAILS

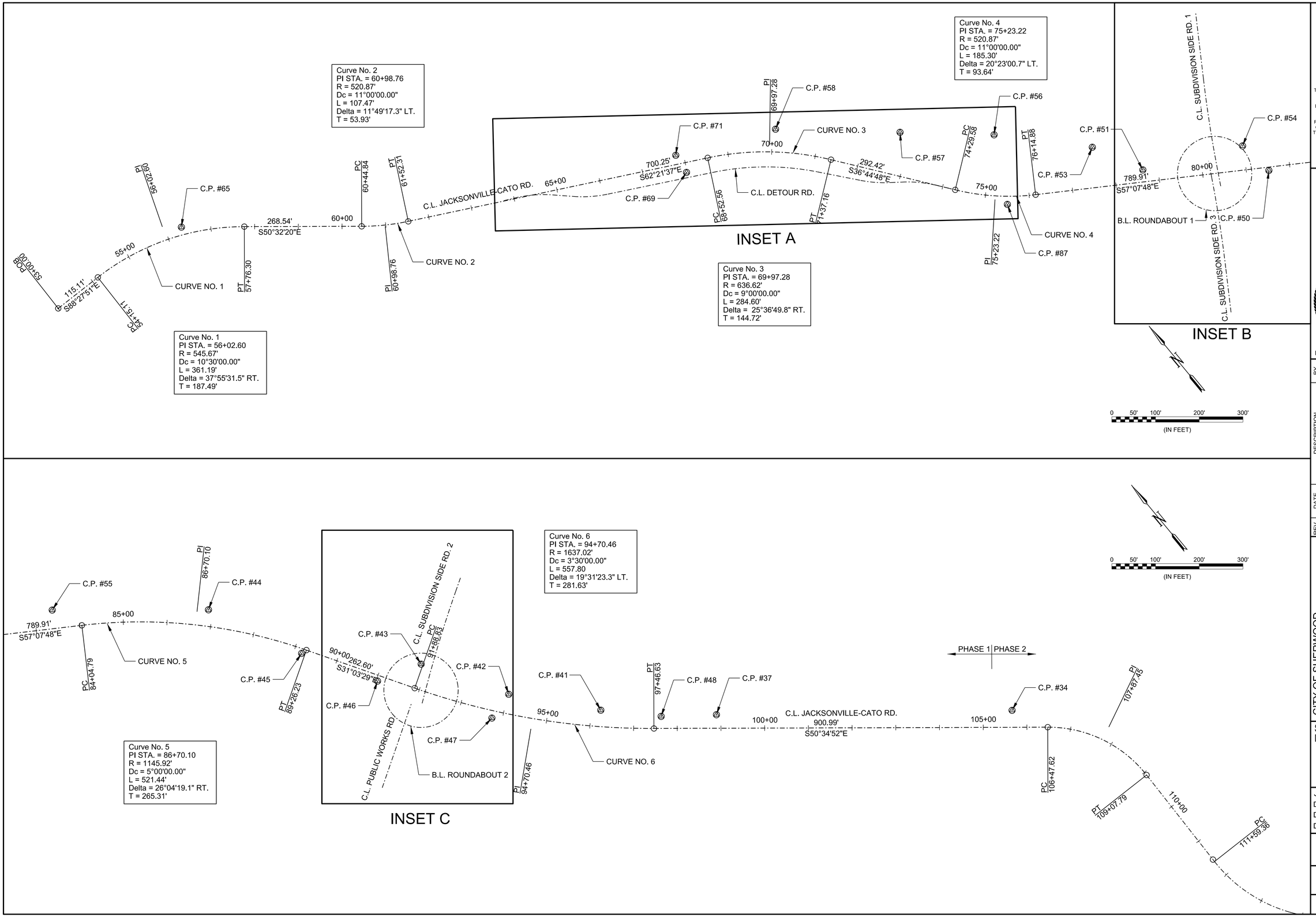
JOB NO.: 18017190
DATE: SEP. 2022
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-501

SHEET NUMBER **068**

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AMWeiner 6/8/2023 10:59:27 AM
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\\garverinc.local\gdata\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C502-SC-CO6.dgn

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CHARLES M. CULLEN
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REV.	DATE	DESCRIPTION	BY
1	3/16/2022	ADDED SUBDIVISION SIDEROAD 3 C.L.	CMC
2	6/8/2023	REISSUED SHEET - MODIFIED P2 SECTION OF ALIGNMENT	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

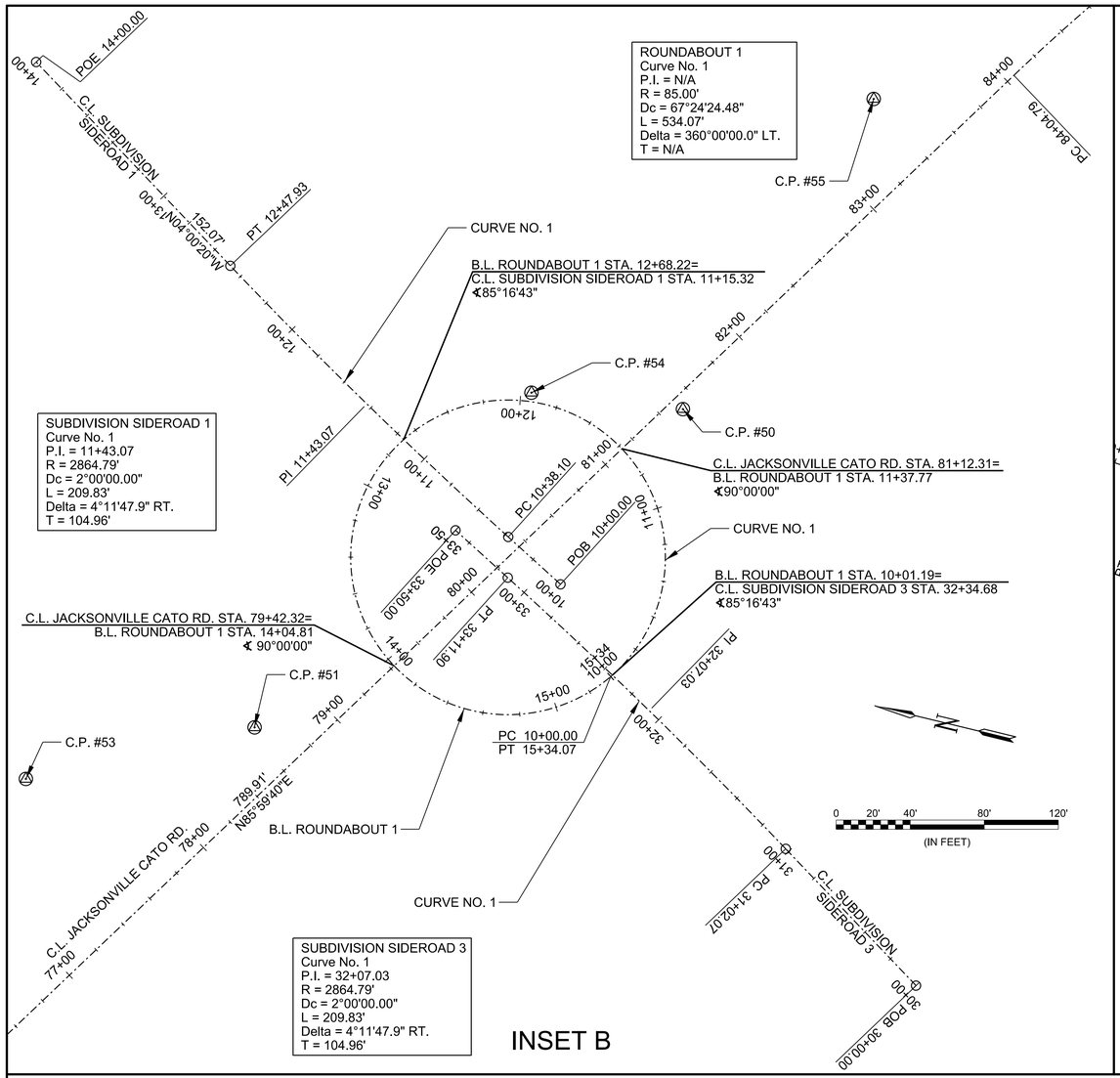
SURVEY CONTROL DETAILS

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-502

SHEET NUMBER 069



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STATE OF ARKANSAS
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No.16145
CHARLES M. CULLEN

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REV.	DATE	DESCRIPTION	BY
1	9/29/2022	CHANGED DETOUR RD./ SUBDIVISION SIDEROAD ALG.	CMC
2	6/8/2023	REISSUED SHEET - MODIFIED DETOUR RD. ALIGNMENT	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

SURVEY CONTROL DETAILS

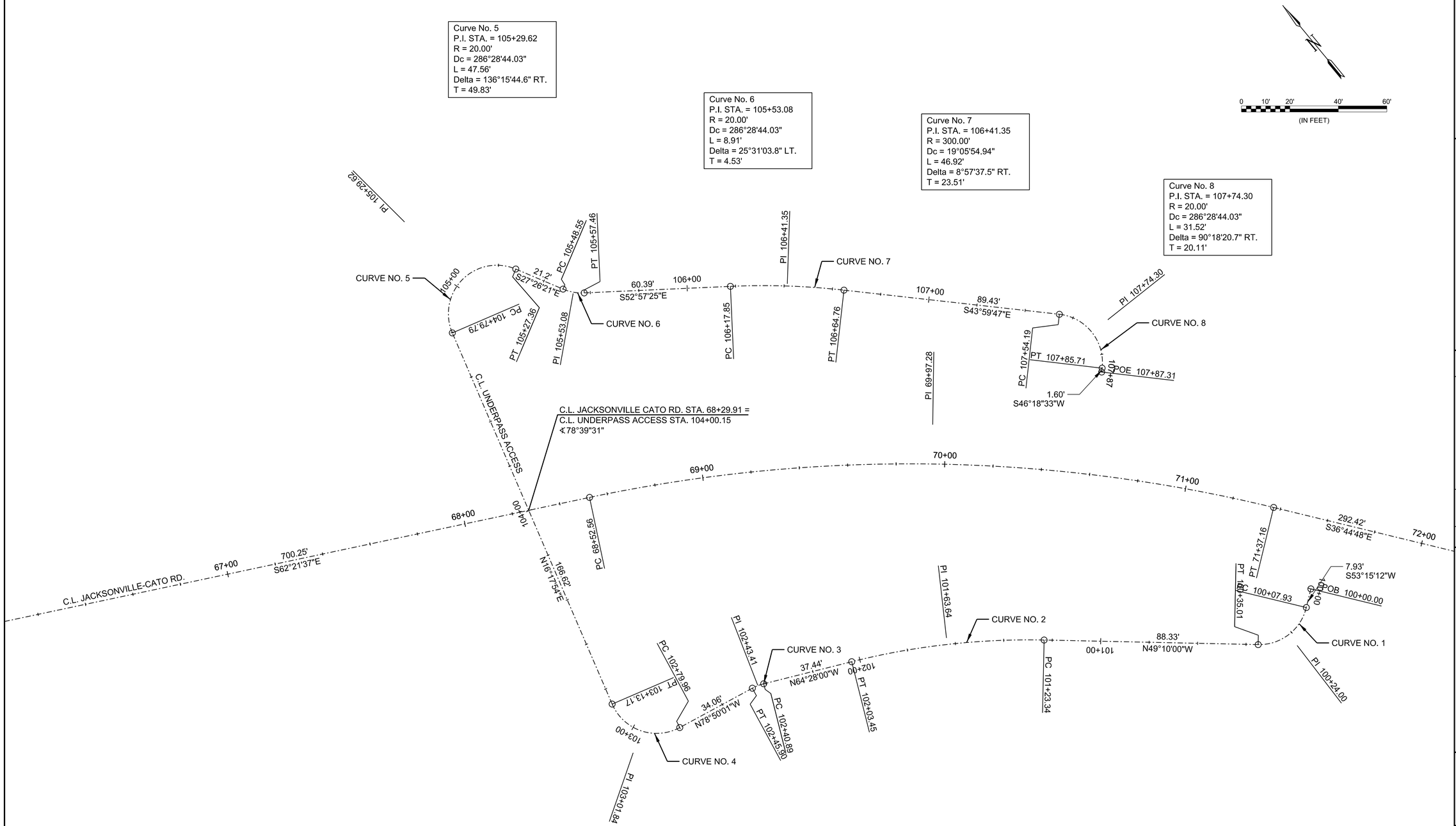
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-503

SHEET NUMBER 070

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WORKSPACE:Garver_2012
\\garverinc.local\gdata\Projects\2018\18017190 - Sherwood - Jacksonville CatoDrawings_Phase 1\SJC-C503-SC-CO6.dgn



Curve No. 4
P.I. STA. = 103+01.84
R = 20.00'
Dc = 286°28'44.03"
L = 33.21'
Delta = 95°07'55.4" RT.
T = 21.88'

Curve No. 3
P.I. STA. = 102+43.41
R = 20.00'
Dc = 286°28'44.03"
L = 5.02'
Delta = 14°22'01.2" LT.
T = 2.52'

Curve No. 2
P.I. STA. = 101+23.34
R = 300.00'
Dc = 19°05'54.94"
L = 80.11'
Delta = 15°18'00.2" LT.
T = 40.30'

Curve No. 1
P.I. STA. = 100+24.00
R = 20.00'
Dc = 286°28'44.03"
L = 27.08'
Delta = 77°34'47.6" RT.
T = 16.07'

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STATE OF ARKANSAS
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No.16145
CHARLES M. CULLEN

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REV.	DATE	DESCRIPTION	BY
1	02/02/22	UPDATED UNDERPASS ACCESS ALIGNMENT	CMC
2	6/8/2023	REISSUED SHEET - UNDERPASS ACCESS ALG.	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

SURVEY CONTROL DETAILS

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-504

SHEET NUMBER **071**

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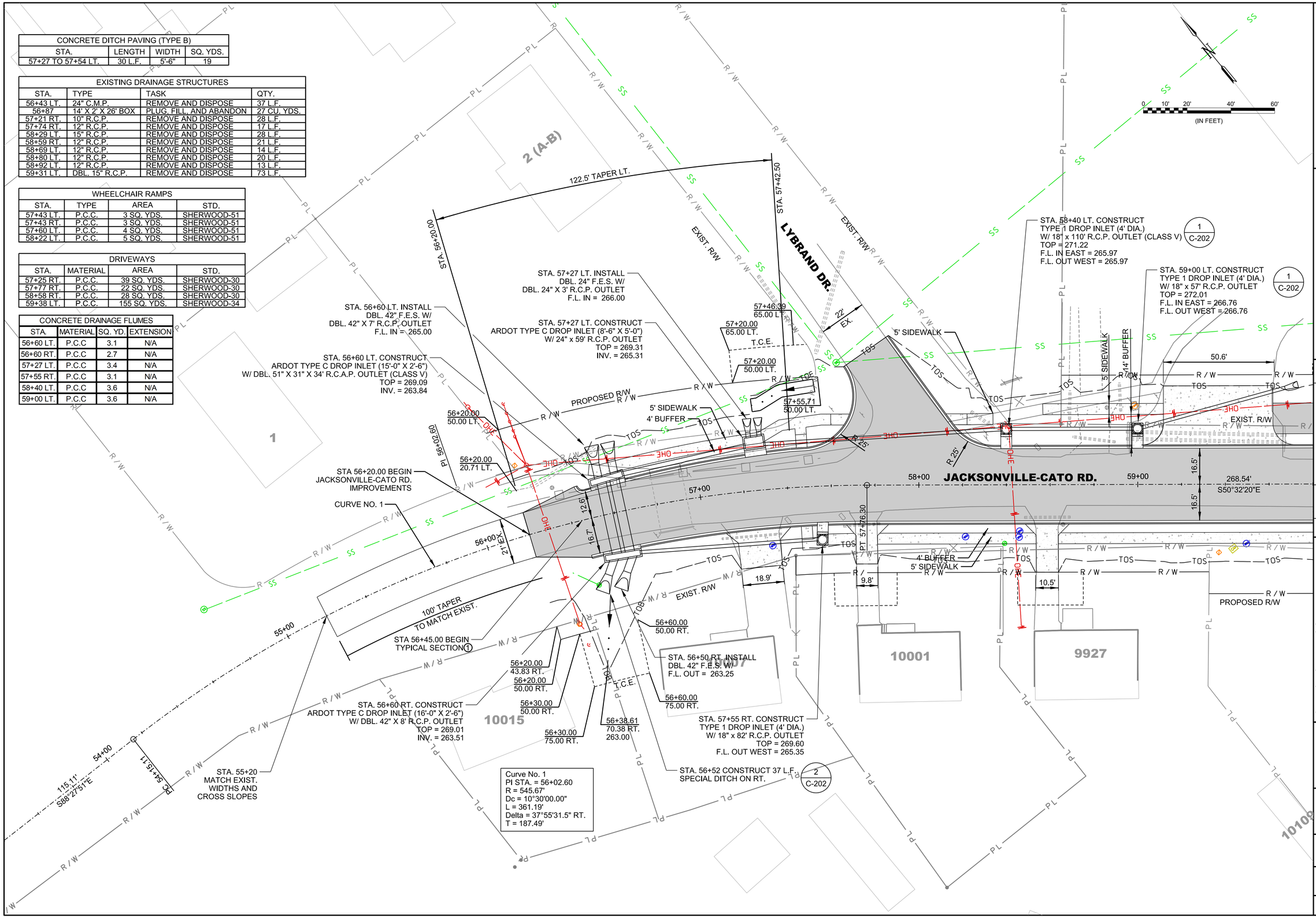
CONCRETE DITCH PAVING (TYPE B)			
STA.	LENGTH	WIDTH	SQ. YDS.
57+27 TO 57+54 LT.	30 L.F.	5'-6"	19

EXISTING DRAINAGE STRUCTURES			
STA.	TYPE	TASK	QTY.
56+43 LT.	24" C.M.P.	REMOVE AND DISPOSE	37 L.F.
56+87	14' X 2' X 26' BOX	PLUG, FILL, AND ABANDON	27 CU. YDS.
57+21 RT.	10" R.C.P.	REMOVE AND DISPOSE	28 L.F.
57+74 RT.	12" R.C.P.	REMOVE AND DISPOSE	17 L.F.
58+29 LT.	15" R.C.P.	REMOVE AND DISPOSE	28 L.F.
58+59 RT.	12" R.C.P.	REMOVE AND DISPOSE	21 L.F.
58+69 LT.	12" R.C.P.	REMOVE AND DISPOSE	14 L.F.
58+80 LT.	12" R.C.P.	REMOVE AND DISPOSE	20 L.F.
58+92 LT.	12" R.C.P.	REMOVE AND DISPOSE	13 L.F.
59+31 LT.	DBL. 15" R.C.P.	REMOVE AND DISPOSE	73 L.F.

WHEELCHAIR RAMPS			
STA.	TYPE	AREA	STD.
57+43 LT.	P.C.C.	3 SQ. YDS.	SHERWOOD-51
57+43 RT.	P.C.C.	3 SQ. YDS.	SHERWOOD-51
57+60 LT.	P.C.C.	4 SQ. YDS.	SHERWOOD-51
58+22 LT.	P.C.C.	5 SQ. YDS.	SHERWOOD-51

DRIVEWAYS			
STA.	MATERIAL	AREA	STD.
57+25 RT.	P.C.C.	39 SQ. YDS.	SHERWOOD-30
57+77 RT.	P.C.C.	22 SQ. YDS.	SHERWOOD-30
58+58 RT.	P.C.C.	28 SQ. YDS.	SHERWOOD-30
59+38 LT.	P.C.C.	155 SQ. YDS.	SHERWOOD-34

CONCRETE DRAINAGE FLUMES			
STA.	MATERIAL	SQ. YD.	EXTENSION
56+60 LT.	P.C.C	3.1	N/A
56+60 RT.	P.C.C	2.7	N/A
57+27 LT.	P.C.C	3.4	N/A
57+55 RT.	P.C.C	3.1	N/A
58+40 LT.	P.C.C	3.6	N/A
59+00 LT.	P.C.C	3.6	N/A



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CERTIFICATE OF AUTHORIZATION
GARVER LLC
No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN
Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	9/29/2022	REMOVED SHARED-USE PATH FROM STA. 58+24 TO STA. 59+14	CMC
2	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

JACKSONVILLE-CATO
PLAN
ROADWAY
STA. 56+20 TO
STA 59+60
(SHEET 1 OF 20)

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

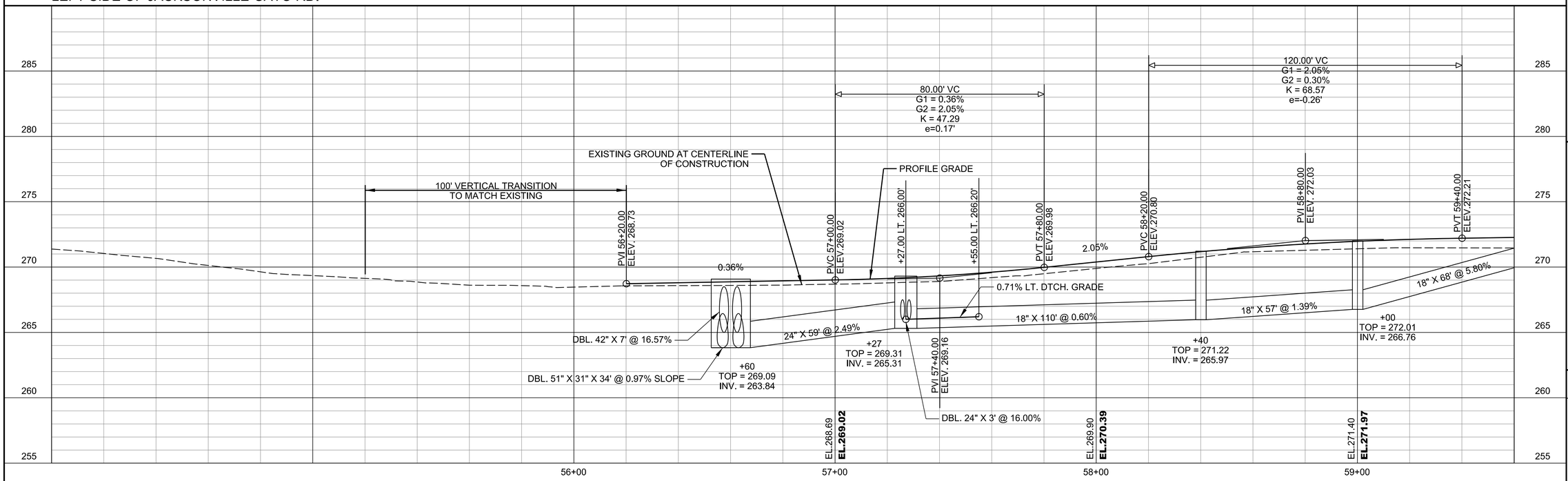
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DRAWING NUMBER
C-601

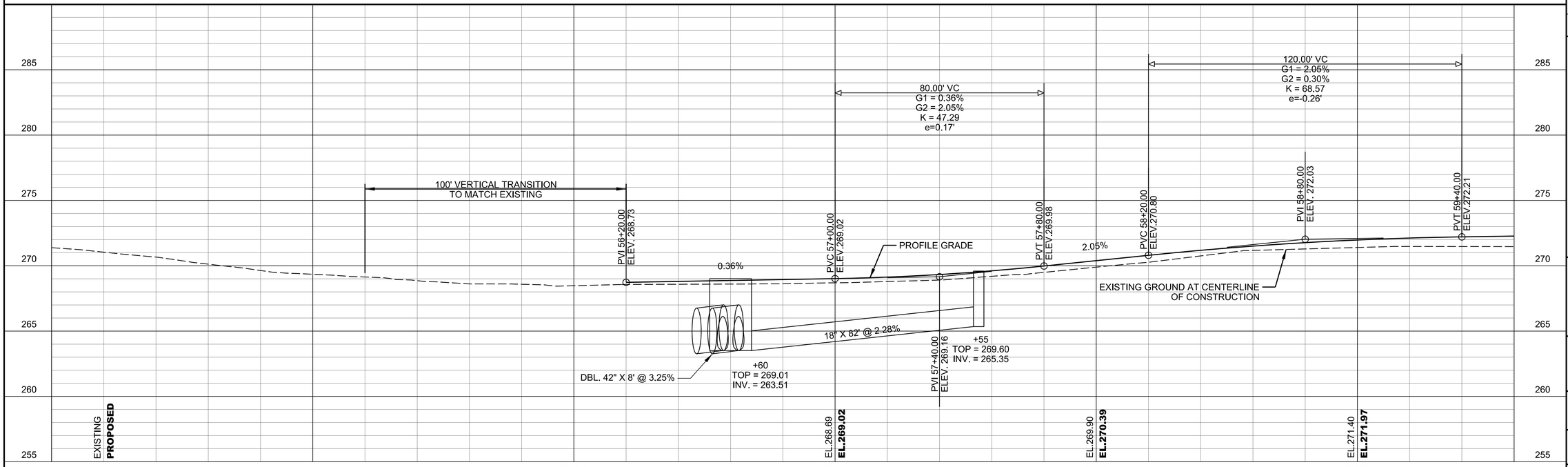
SHEET NUMBER 072

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LEFT SIDE OF JACKSONVILLE-CATO RD.



RIGHT SIDE OF JACKSONVILLE-CATO RD.



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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

JACKSONVILLE-CATO
PROFILE
ROADWAY
STA. 56+20 TO
STA 59+60
(SHEET 2 OF 20)

JOB NO.: 18017190
DATE: SEP. 2022
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-602

SHEET NUMBER **073**

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EXISTING DRAINAGE STRUCTURES			
STA.	TYPE	TASK	QTY.
62+17 LT.	DBL. 15" R.C.P.	REMOVE AND DISPOSE	86 L.F.
63+13 RT.	15" C.M.P.	REMOVE AND DISPOSE	41 L.F.
63+67 RT.	6" C.M.P.	REMOVE AND DISPOSE	20 L.F.
63+68 LT.	DBL. 15" R.C.P.	REMOVE AND DISPOSE	56 L.F.

DRIVEWAYS			
STA.	MATERIAL	AREA	STD.
60+76 RT.	P.C.C.	33 SQ. YDS.	SHERWOOD-30
61+93 LT.	P.C.C.	139 SQ. YDS.	SHERWOOD-34
63+12 RT.	P.C.C.	26 SQ. YDS.	SHERWOOD-34
63+62 LT.	P.C.C.	143 SQ. YDS.	SHERWOOD-34
63+63 RT.	P.C.C.	22 SQ. YDS.	SHERWOOD-30

Curve No. 2
PI STA. = 60+98.76
R = 520.87'
Dc = 11°00'00.00"
L = 107.47'
Delta = 11°49'17.3" LT.
T = 53.93'

STA. 59+80 LT. INSTALL
18" F.E.S. W/
18" X 68' R.C.P. OUTLET (CLASS V)
F.L. IN = 271.05

STA. 61+55 LT. CONSTRUCT
TYPE 1 DROP INLET (4' DIA.)
W/ 18" x 161' R.C.P. OUTLET (CLASS IV)
TOP = 271.49
INV. = 267.24

STA. 63+20 LT. CONSTRUCT
ARDOT TYPE C DROP INLET (4'-0" X 2'-6")
W/ 18" x 177' R.C.P. OUTLET (CLASS IV)
TOP = 267.22
INV. = 262.97

STA. 64+07, 50' LT. BEGIN
5' CHAIN LINE FENCE

STA. 65+00 LT. CONSTRUCT
TYPE 1 DROP INLET (4' DIA.)
W/ 18" x 57' R.C.P. OUTLET
TOP = 262.86
INV. = 258.61

59+80.00
55.00 LT.
59+80.00
50.00 LT.
14' SHARED USE PATH
5' BUFFER
61+70.00
65.00 LT.
61+70.00
55.00 LT.
27.9'
62+10.00
65.00 LT.
62+10.00
55.00 LT.
61+40.00
42.50 LT.
T.C.E.
61+15.00
37.00 LT.
PROPOSED R/W
10.5' BUFFER
36.2'
EXIST. R/W
T.C.E.
268.54'
S50°32'20"E
PC 60+44.84
PT 61+82.31
60+00
61+00
62+00
63+00
64+00
65+00
700.25'
S62°21'37"E
JACKSONVILLE-CATO RD.
CURVE NO. 2
PI 60+98.76
16.5'
4' BUFFER
5' SIDEWALK
61+40.00
27.00 RT.
61+45.00
29.00 RT.
PROPOSED R/W
9.4'
10.3'
6' BUFFER
5' SIDEWALK
EXIST. R/W

STA. 61+60 RT. CONSTRUCT
TYPE 1 DROP INLET (4' DIA.)
W/ 18" x 177' R.C.P. OUTLET
TOP = 271.40
INV. = 267.15

STA. 63+40 RT. CONSTRUCT
TYPE 1 DROP INLET (4' DIA.)
W/ 18" x 57' R.C.P. OUTLET
TOP = 266.67
INV. = 262.42

STA. 64+00 RT. CONSTRUCT
TYPE 1 DROP INLET (4' DIA.)
W/ 18" x 97' R.C.P. OUTLET
TOP = 264.99
INV. = 260.74

STA. 65+00 RT. CONSTRUCT
TYPE 1 DROP INLET (4' DIA.)
W/ 18" x 57' R.C.P. OUTLET
TOP = 262.86
INV. = 258.61

CONCRETE DRAINAGE FLUMES			
STA.	MATERIAL	SQ. YD.	EXTENSION
61+55 LT.	P.C.C	7.2	4' DBL.
61+60 RT.	P.C.C	3.6	N/A
63+20 LT.	P.C.C	10.2	8' DBL.
63+40 RT.	P.C.C	3.6	N/A
64+00 RT.	P.C.C	5.4	4'
65+00 LT.	P.C.C	5.4	4'
65+00 RT	P.C.C	5.4	4'

0 10' 20' 40' 60'
(IN FEET)

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CHARLES M. CULLEN
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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

JACKSONVILLE-CATO
PLAN
ROADWAY
STA. 59+60 TO
STA 65+20
(SHEET 3 OF 20)

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

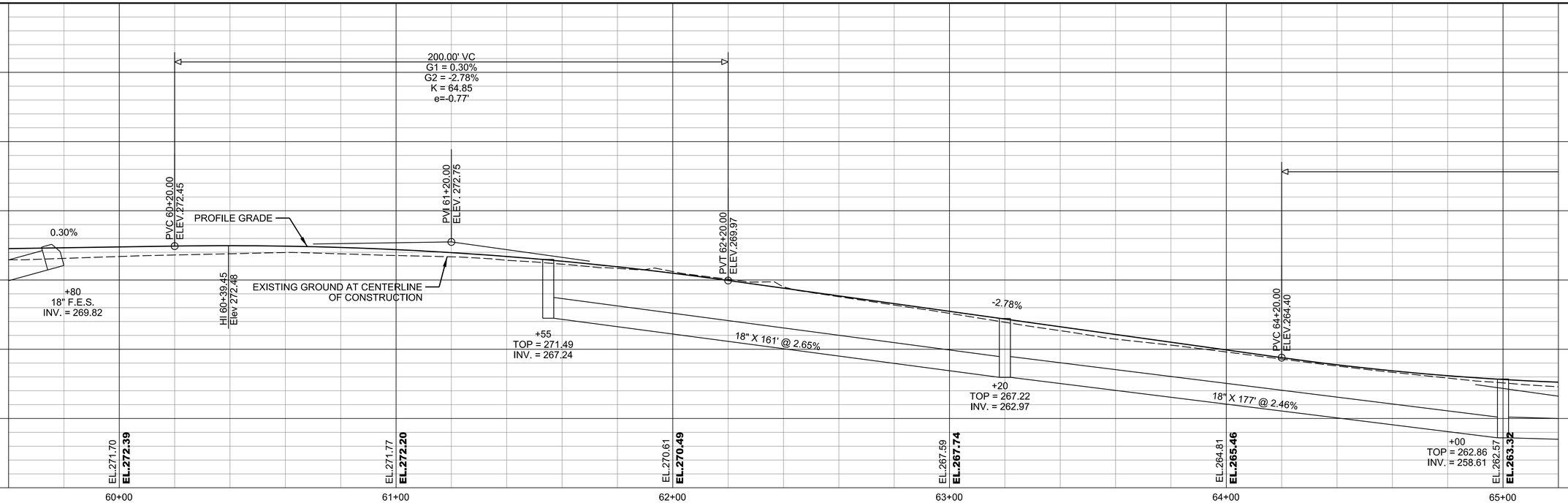
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C-603

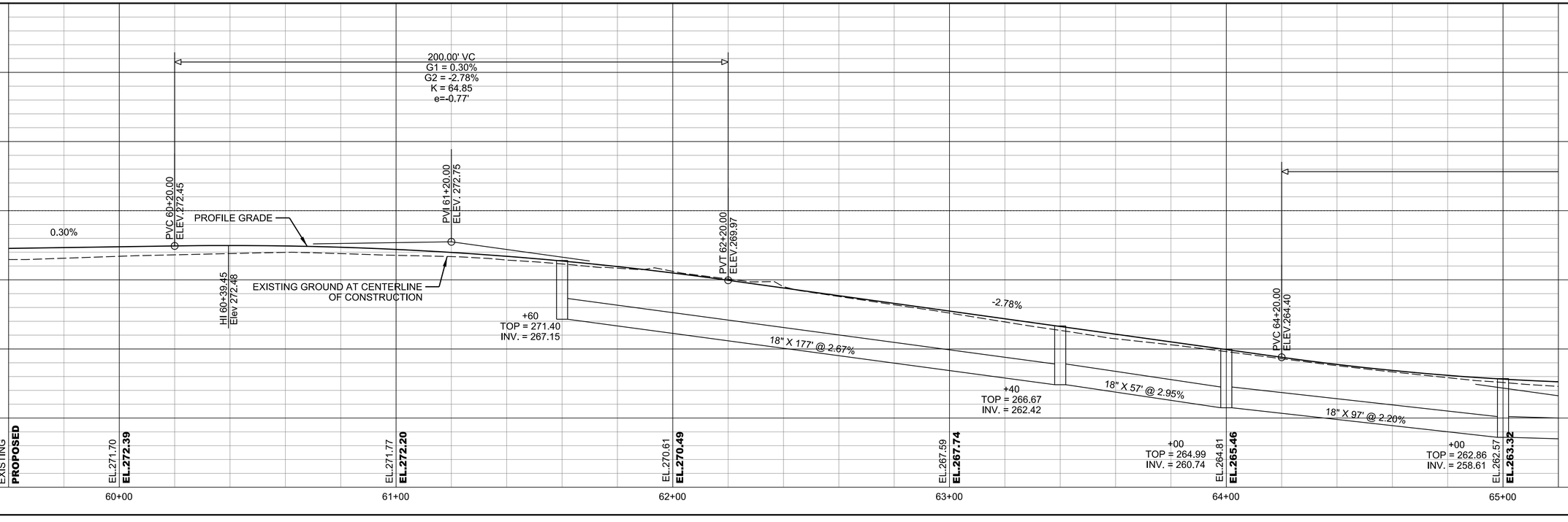
SHEET NUMBER 074

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\\garverinc.local\gldata\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C603-PP-CO6.dgn

LEFT SIDE OF JACKSONVILLE-CATO RD.



RIGHT SIDE OF JACKSONVILLE-CATO RD.



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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

JACKSONVILLE-CATO
PROFILE
ROADWAY
STA. 59+60 TO
STA 65+20
(SHEET 4 OF 20)

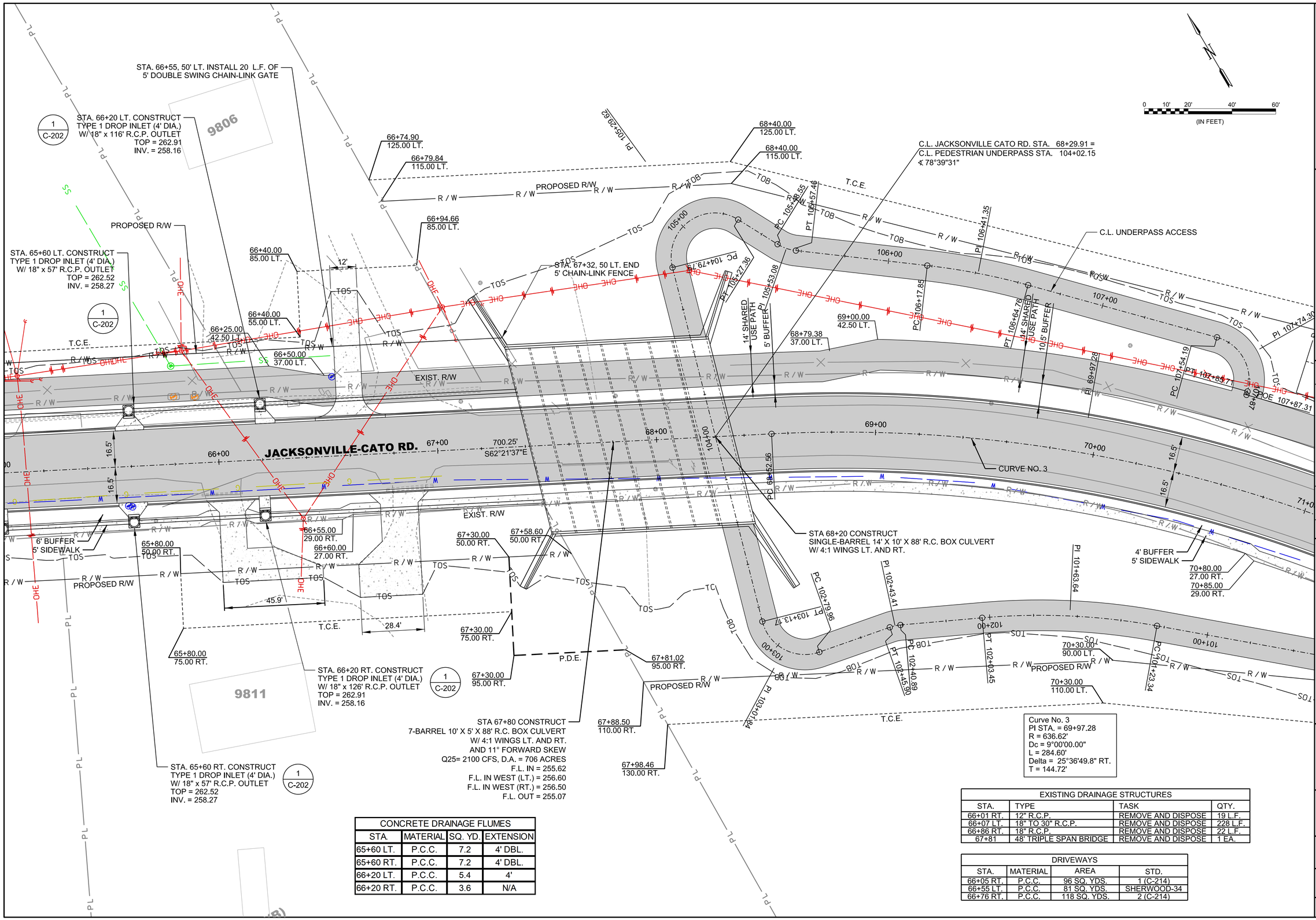
JOB NO.: 18017190
DATE: SEP. 2022
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-604

SHEET NUMBER **075**

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WORKSPACE:Garver 2012



CONCRETE DRAINAGE FLUMES			
STA.	MATERIAL	SQ. YD.	EXTENSION
65+60 LT.	P.C.C.	7.2	4' DBL.
65+60 RT.	P.C.C.	7.2	4' DBL.
66+20 LT.	P.C.C.	5.4	4'
66+20 RT.	P.C.C.	3.6	N/A

EXISTING DRAINAGE STRUCTURES			
STA.	TYPE	TASK	QTY.
66+01 RT.	12" R.C.P.	REMOVE AND DISPOSE	19 L.F.
66+07 LT.	18" TO 30" R.C.P.	REMOVE AND DISPOSE	228 L.F.
66+86 RT.	18" R.C.P.	REMOVE AND DISPOSE	22 L.F.
67+81	48' TRIPLE SPAN BRIDGE	REMOVE AND DISPOSE	1 EA.

DRIVEWAYS			
STA.	MATERIAL	AREA	STD.
66+05 RT.	P.C.C.	96 SQ. YDS.	1 (C-214)
66+55 LT.	P.C.C.	81 SQ. YDS.	SHERWOOD-34
66+76 RT.	P.C.C.	118 SQ. YDS.	2 (C-214)

Curve No. 3
PI STA. = 69+97.28
R = 636.62'
Dc = 9°00'00.00"
L = 284.60'
Delta = 25°36'49.8" RT.
T = 144.72'

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CERTIFICATE OF AUTHORIZATION
GARVER LLC No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN
Digitally Signed 06/08/2023

REV	DATE	DESCRIPTION	BY
1	02/02/22	SHORTENED R.C.BOX PED. UNDERPASS 14' WIDTH	CMC
2	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

JACKSONVILLE-CATO
PLAN
ROADWAY
STA. 65+20 TO
STA 70+80
(SHEET 5 OF 20)

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

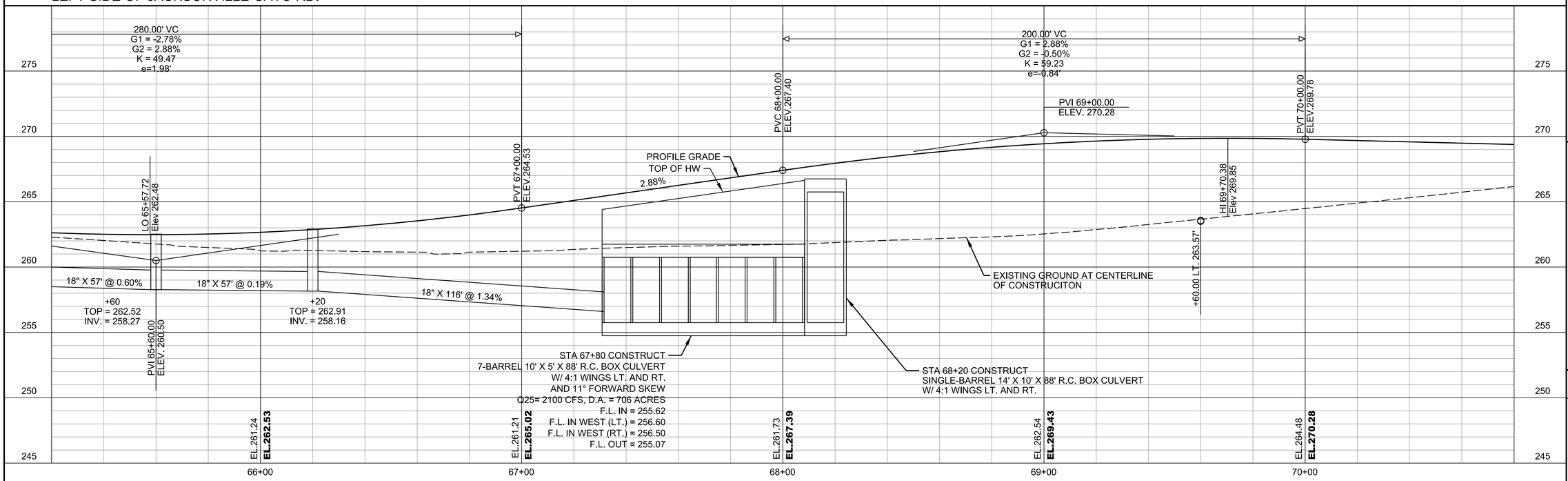
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C-605

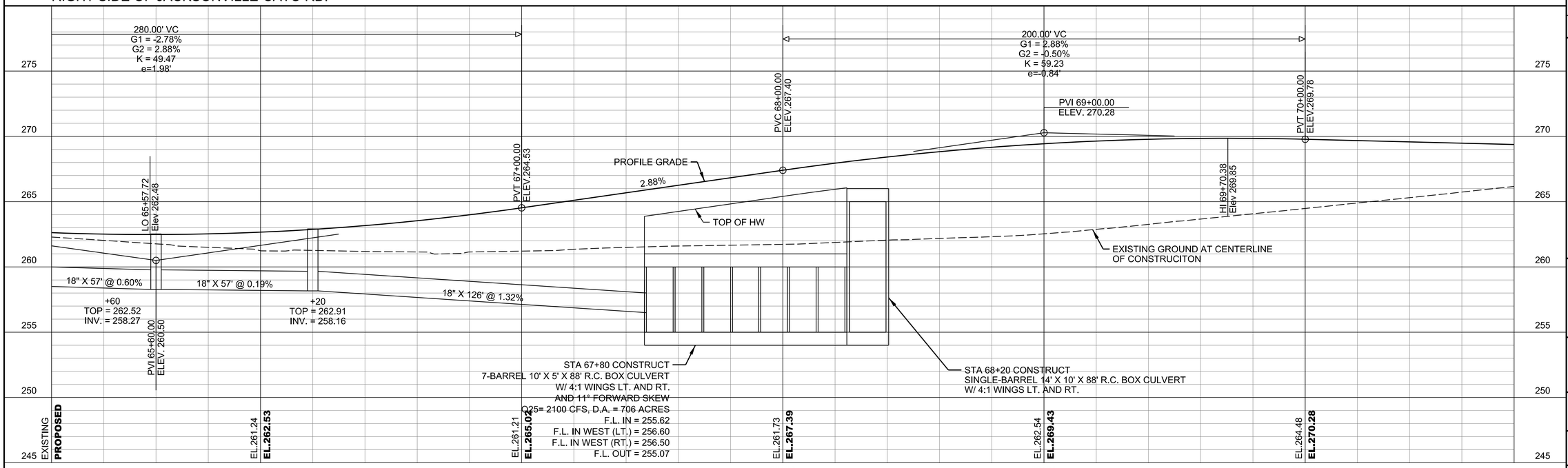
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LEFT SIDE OF JACKSONVILLE-CATO RD.



RIGHT SIDE OF JACKSONVILLE-CATO RD.



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No.16145
CHARLES M. CULLEN
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REV.	DATE	DESCRIPTION	BY
1	02/02/22	SHORTENED R.C.BOX PED. UNDERPASS 14' WIDTH	CMC
2	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

JACKSONVILLE-CATO
PROFILE
ROADWAY
STA. 65+20 TO
STA 70+80
(SHEET 6 OF 20)

JOB NO.: 18017190
DATE: SEP. 2022
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-606

SHEET NUMBER **077**

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Curve No. 4
PI STA. = 75+23.22
R = 520.87'
Dc = 11°00'00.00"
L = 185.30'
Delta = 20°23'00.7" LT.
T = 93.64'

0 10' 20' 40' 60'
(IN FEET)

JACKSONVILLE-CATO RD.

292.42'
S36°44'48"E

789.91'
S57°07'48"E

CURVE NO. 4

POB 100+00.00

PC 100+07.93

PT 101+35.01

PT 71+37.16

PC 74+14.88

PT 75+25.22

PT 100+24.00

PT 100+23.34

71+00 72+00 73+00 74+00 75+00 76+00

16.5' 16.5' 16.5'

EXIST R/W

6' BUFFER

5' SIDEWALK

7' BUFFER

5' SIDEWALK

14' SHARED USE PATH

10.5' BUFFER

PROPOSED R/W

EXIST R/W

T.C.E.

P.D.E.

TOB TOS R / W OHE

STA. 72+00 LT. CONSTRUCT
TYPE 1 DROP INLET (4' DIA.)
W/ 18" x 117' R.C.P. OUTLET
TOP = 268.82
INV. = 264.57
(1 / C-202)

STA. 73+70 LT. CONSTRUCT
TYPE 1 DROP INLET (4' DIA.)
W/ 18" x 57' R.C.P. OUTLET AND
TOP = 268.03
INV. = 263.78
(1 / C-202)

STA. 73+20 LT. CONSTRUCT
TYPE 1 DROP INLET (4' DIA.)
W/ 18" x 47' R.C.P. OUTLET
TOP = 268.22
INV. = 263.97
(1 / C-202)

STA. 74+82 CONSTRUCT 20 L.F.
SPECIAL DITCH ON LT.
(2 / C-202)

STA. 74+68 LT. INSTALL
DBL. 30" F.E.S. W/
DBL. 30" X 31' R.C.P. OUTLET
F.L. IN = 263.92

STA. 74+37 LT. CONSTRUCT
ARDOT TYPE C DROP INLET (16'-0" X 2'-6")
W/ DBL. 30" X 64' R.C.P. OUTLET (CLASS V)
TOP = 268.50
INV. = 263.50

STA. 74+80 LT. CONSTRUCT
TYPE 1 DROP INLET (4' DIA.)
W/ 18" x 31' R.C.P. OUTLET
TOP = 269.28
INV. = 265.03
(1 / C-202)

70+80.00 90.00 LT.
70+80.00 80.00 LT.
70+80.00 65.00 LT.
70+80.00 50.00 LT.
74+74.30 R

74+20.00 80.00 LT.
74+50.00 59.75 LT.
74+20.00 65.00 LT.
74+50.00 50.00 LT.
74+81.87 69.53 LT. 266.41
74+90.00 80.00 LT.
74+80.00 60.00 LT.
74+90.00 65.00 LT.
74+80.00 50.00 LT.

72+00.00 50.00 RT.
72+00.00 70.00 RT.
72+20.00 70.00 RT.
72+45.55 96.27 RT. 261.26
72+20.00 110.00 RT.
73+20.00 80.00 RT.
73+20.00 110.00 RT.
74+00.00 50.00 RT.
74+00.00 80.00 RT.
74+25.00 30.00 RT.
74+20.00 29.00 RT.

STA. 72+00 RT. CONSTRUCT
TYPE 1 DROP INLET (4' DIA.)
W/ 18" x 117' R.C.P. OUTLET
TOP = 268.82
INV. = 264.57
(1 / C-202)

STA. 73+20 RT. INSTALL
18" F.E.S.
F.L. OUT = 262.77

STA. 73+20 RT. CONSTRUCT
TYPE 1 DROP INLET (4' DIA.)
W/ 18" x 13' R.C.P. OUTLET
TOP = 268.22
INV. = 263.97
(1 / C-202)

STA. 73+70 RT. CONSTRUCT
TYPE 1 DROP INLET (4' DIA.)
W/ 18" x 11' R.C.P. OUTLET
TOP = 268.03
INV. = 263.78
(1 / C-202)

STA. 73+70 RT. INSTALL
DBL. 36" F.E.S.
F.L. OUT = 262.53

STA. 73+70 CONSTRUCT 134 L.F.
SPECIAL DITCH ON RT.
(2 / C-202)

STA. 73+91 RT. CONSTRUCT
ARDOT TYPE C DROP INLET (16'-0" X 4'-3")
W/ DBL. 36" X 17' R.C.P. OUTLET
TOP = 268.08
INV. = 263.08

STA. 74+80 RT. CONSTRUCT
TYPE 1 DROP INLET (5' DIA.)
W/ 36" x 81' R.C.P. OUTLET
TOP = 269.28
INV. = 264.28
(1 / C-202)

STA. 76+00 RT. CONSTRUCT
TYPE 1 DROP INLET (5' DIA.)
W/ 36" x 124' R.C.P. OUTLET
TOP = 273.40
INV. = 268.40
(1 / C-202)

CONCRETE DRAINAGE FLUMES			
STA.	MATERIAL	SQ. YD.	EXTENSION
72+00 LT.	P.C.C	3.6	N/A
72+00 RT.	P.C.C	3.6	N/A
73+20 LT.	P.C.C	3.6	N/A
73+20 RT.	P.C.C	3.6	N/A
73+70 LT.	P.C.C	7.2	4'
73+70 RT.	P.C.C	7.2	4'
73+91 RT.	P.C.C	12.2	N/A
74+37 LT.	P.C.C	12.1	N/A
74+80 LT.	P.C.C	3.6	N/A
74+80 RT.	P.C.C	4.7	N/A
76+00 RT.	P.C.C	4.7	N/A

CONCRETE DITCH PAVING (TYPE B)			
STA.	LENGTH	WIDTH	SQ. YDS.
71+58 TO 73+40 LT.	182 L.F.	5'-6"	111

EXISTING DRAINAGE STRUCTURES			
STA.	TYPE	TASK	QTY.
74+34	DBL. 18" R.C.P.	REMOVE AND DISPOSE	28 L.F.

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ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

JACKSONVILLE-CATO
PLAN AND PROFILE
STA. 70+80 TO
STA 76+40
(SHEET 7 OF 20)

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

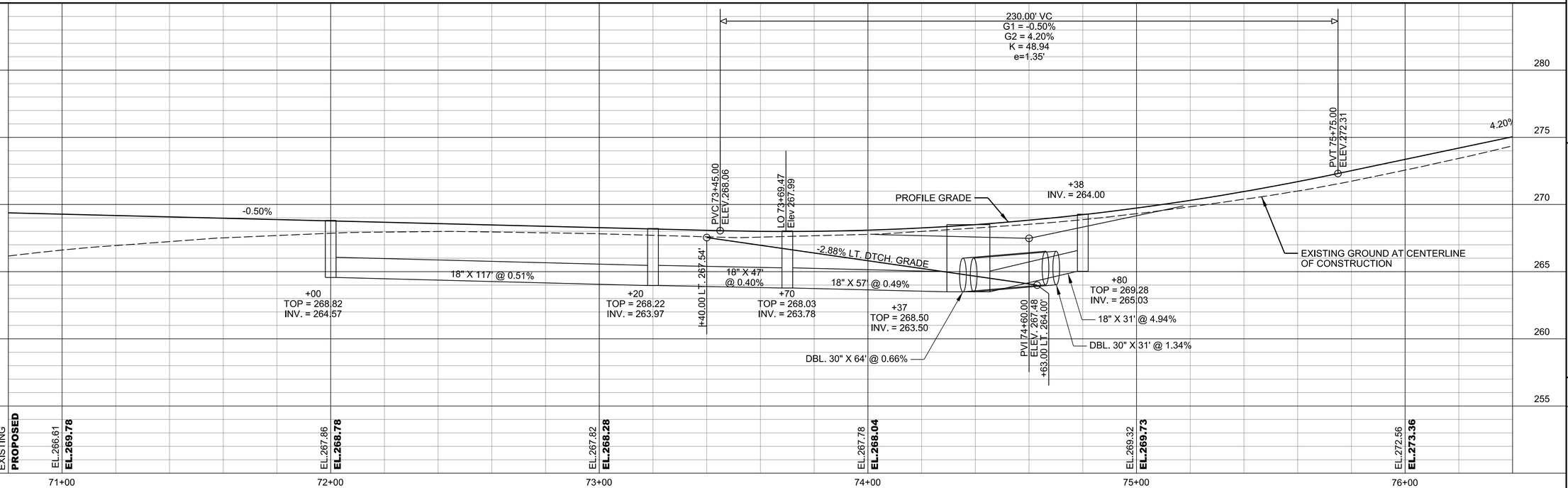
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DRAWING NUMBER
C-607

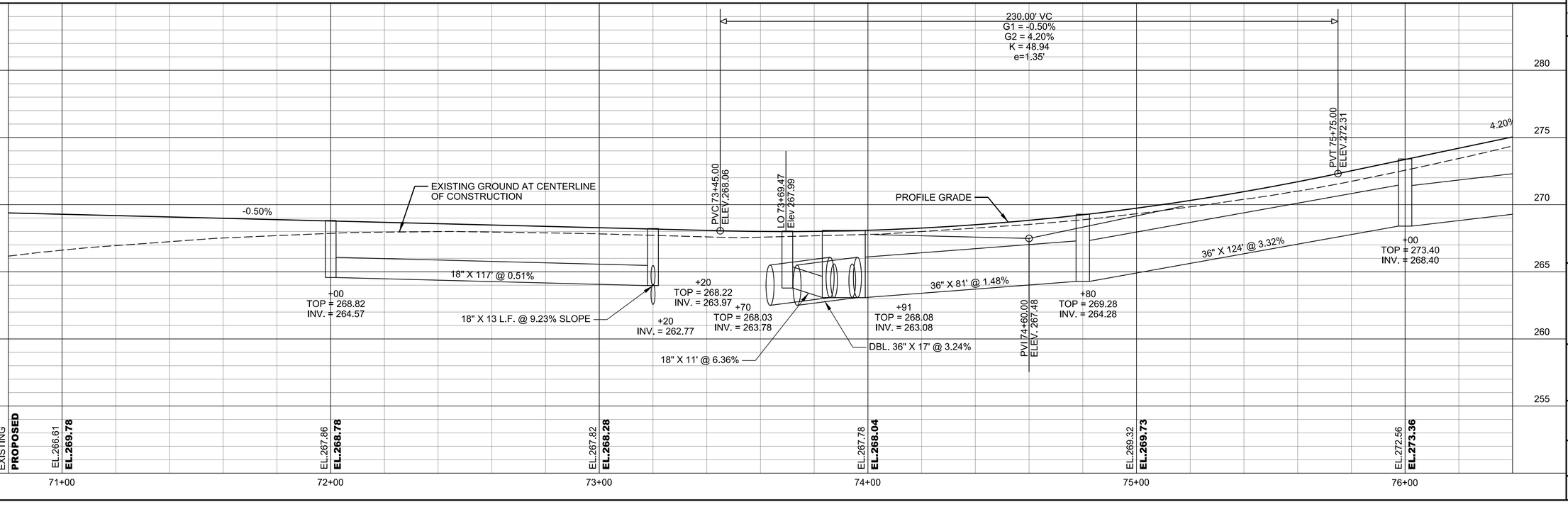
SHEET NUMBER 078

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LEFT SIDE OF JACKSONVILLE-CATO RD.



RIGHT SIDE OF JACKSONVILLE-CATO RD.



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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 16145
CHARLES M. CULLEN

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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

JACKSONVILLE-CATO
PROFILE
ROADWAY
STA. 70+80 TO
STA 76+40
(SHEET 8 OF 20)

JOB NO.: 18017190
DATE: SEP. 2022
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-608

SHEET NUMBER **079**

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WORKSPACE:Garver 2012

CONCRETE DITCH PAVING (TYPE B)			
STA.	LENGTH	WIDTH	SQ. YDS.
76+99 TO 79+84 RT.	330 L.F.	6'-0"	220
80+70 TO 84+35 RT.	404 L.F.	6'-0"	269

CONCRETE DRAINAGE FLUMES			
STA.	MATERIAL	SQ. YD.	EXTENSION
77+50 RT.	P.C.C	5.1	N/A

B.L. ROUNDABOUT 1 STA. 12+68.22=
C.L. SUBDIVISION SIDEROAD 1 STA. 11+15.32
∢ 85°16'43"

C.L. SUBDIVISION SIDEROAD 1

C.L. JACKSONVILLE CATO RD. STA. 79+42.32=
B.L. ROUNDABOUT 1 STA. 14+04.81
∢ 90°00'00"

1 / C-202 — STA. 79+25 LT. CONSTRUCT TYPE 1 DROP INLET (5' DIA.) W/ 30" x 33' R.C.P. OUTLET TOP = 280.99 INV. = 274.49

1 / C-202 — STA. 81+70 LT. CONSTRUCT TYPE 1 DROP INLET (5' DIA.) W/ 4' EXTENSION AND 18" x 80' R.C.P. OUTLET TOP = 283.22 INV. = 277.22

0 10' 20' 40' 60'
(IN FEET)

P.D.E.

78+94.73 90.00 LT.
78+80.00 90.00 LT.
78+80.00 65.00 LT.
79+08.76 50.00 LT.
81+44.50 90.00 LT.
81+60.00 90.00 LT.
81+60.00 65.00 LT.
81+25.29 50.00 LT.

T.C.E.
TOS
R / W
PROPOSED R/W
14' SHARED USE PATH
10.5' BUFFER
16.5'
16.5'
789.91'
S57°07'48"E
77+00
78+00
79+00
80+00
81+00
82+00
JACKSONVILLE-CATO RD.
12+00
13+00
12.00
EXIST. R/W
POE 33+50.00
N28°40'24"E 38.10'
PT 33+11.90
33+00
79+29.34 50.00 RT.
81+38.67 50.00 RT.
SPLITTER ISLAND
VAR. WIDTH
STA 79+42.32 END TYPICAL SECTION 4
STA 81+12.31 BEGIN TYPICAL SECTION 4
16'
15'
11+00
10+00.09 PC
15+34.07 PT
15+34
10+00
TRUCK APRON
15+00
PI 11+43.01
PI 32+07.03
32+00
TOB
FALSE
R / W — 7' BUFFER — 5' SIDEWALK
PROPOSED R/W
STA 78+30.36 END TYPICAL SECTION 1 BEGIN TYPICAL SECTION 2
STA 79+02.00 END TYPICAL SECTION 2 BEGIN TYPICAL SECTION 3
STA 81+52.00 END TYPICAL SECTION 3 BEGIN TYPICAL SECTION 2
SPLITTER ISLAND
B.L. ROUNDABOUT 1

1 / C-202 — STA. 77+50 RT. CONSTRUCT TYPE 1 DROP INLET (6' DIA.) W/ 36" x 144' R.C.P. OUTLET TOP = 279.40 INV. 273.90

1 / C-202 — STA. 79+25 RT. CONSTRUCT TYPE 1 DROP INLET (6' DIA.) W/ 30" x 17' R.C.P. OUTLET TOP = 282.07 INV. = 274.32

1 / C-202 — STA. 79+20 RT. CONSTRUCT TYPE 1 DROP INLET (6' DIA.) W/ 36" x 165' R.C.P. OUTLET TOP = 282.43 INV. = 274.18

1 / C-202 — STA. 81+70 RT. CONSTRUCT TYPE 1 DROP INLET (4' DIA.) 18" x 24' R.C.P. OUTLET TOP = 283.75 INV. = 277.50

B.L. ROUNDABOUT 1 STA. 10+01.19=
C.L. SUBDIVISION SIDEROAD 3 STA. 32+34.68
∢ 85°16'43"

C.L. JACKSONVILLE CATO RD. STA. 81+12.31=
B.L. ROUNDABOUT 1 STA. 11+37.77
∢ 90°00'00"

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No. 16145
CHARLES M. CULLEN
Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	9/29/2022	ADJUSTED PLAN FOR ROUNDABOUT LEG ADDITION	CMC
2	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

JACKSONVILLE-CATO
PLAN
ROADWAY
STA. 76+40 TO
STA 82+00
(SHEET 9 OF 20)

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

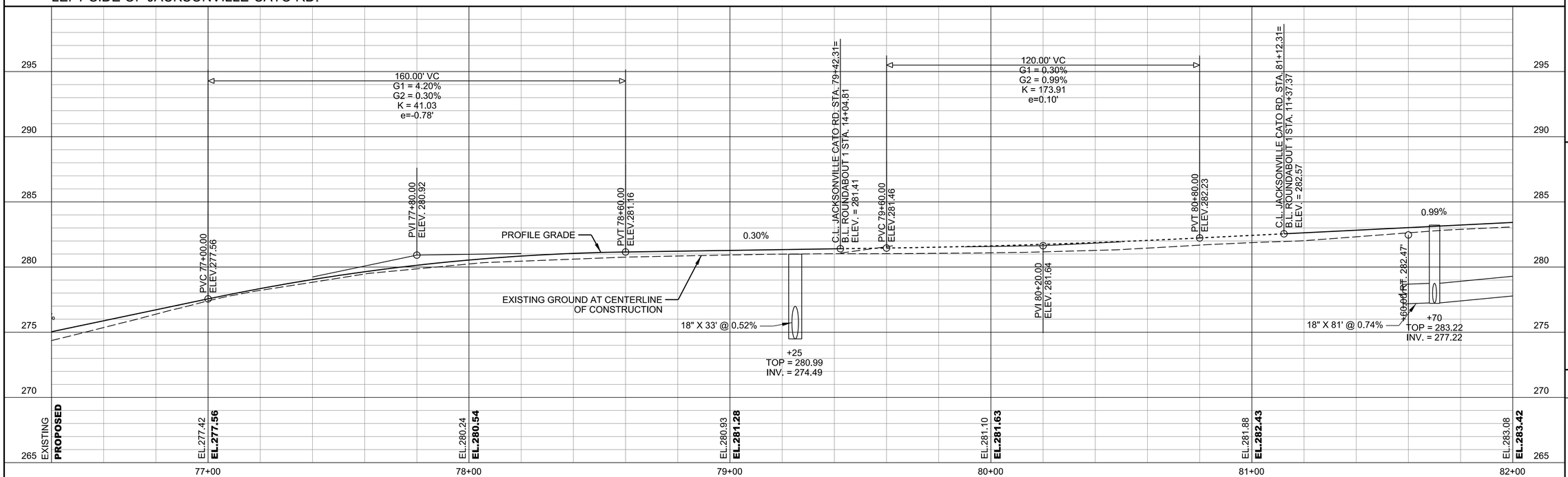
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DRAWING NUMBER
C-609

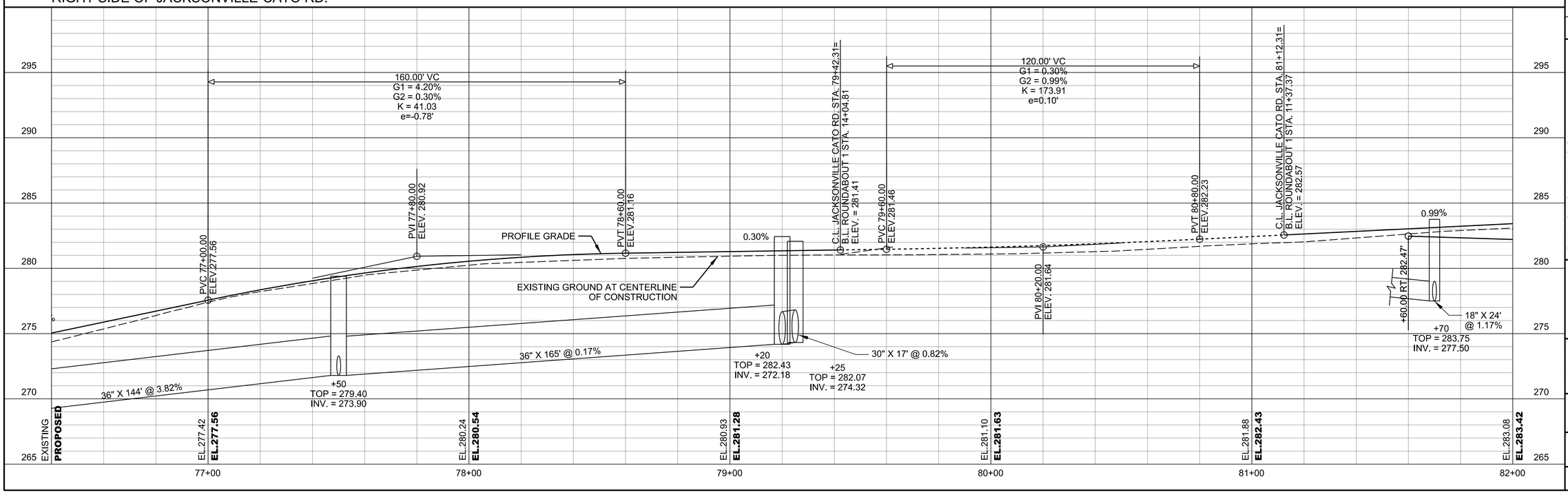
SHEET NUMBER **080**

AMWeiner 6/8/2023 10:59:40 AM
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WORKSPACE:Garver_2012

LEFT SIDE OF JACKSONVILLE-CATO RD.



RIGHT SIDE OF JACKSONVILLE-CATO RD.



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CHARLES M. CULLEN

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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

JACKSONVILLE-CATO
PROFILE
ROADWAY
STA. 76+40 TO
STA 82+00
(SHEET 10 OF 20)

JOB NO.: 18017190
DATE: SEP. 2022
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-610

SHEET NUMBER **081**

AMWeiner 6/8/2023 10:59:41 AM
\WORKSPACE:Garver 2012
\\garverinc.local\data\Projects\20181801190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C610-PP-CO6.dgn

CONCRETE DITCH PAVING (TYPE B)			
STA.	LENGTH	WIDTH	SQ. YDS.
85+15 TO 85+59 RT.	42 L.F.	6'-0"	28
86+00 TO 85+59 LT.	209 L.F.	5'-6"	128

EXISTING DRAINAGE STRUCTURES			
STA.	TYPE	TASK	QTY.
85+36 LT.	12" C.M.P.	REMOVE AND DISPOSE	21 L.F.
85+51	15" C.M.P.	REMOVE AND DISPOSE	32 L.F.

DRIVEWAYS			
STA.	MATERIAL	AREA	STD.
84+52 RT.	P.C.C.	55 SQ. YDS.	SHERWOOD-34
84+94 RT.	P.C.C.	65 SQ. YDS.	SHERWOOD-34

0 10' 20' 40' 60'
(IN FEET)

STA. 82+50 LT. CONSTRUCT TYPE 1 DROP INLET (4' DIA.) W/ 18" x 76' R.C.P. OUTLET TOP = 283.96 INV. = 278.71 (1 / C-202)

STA. 86+60 LT. CONSTRUCT TYPE 1 DROP INLET (4' DIA.) W/ 18" x 47' R.C.P. OUTLET TOP = 282.10 INV. = 276.85

84+00.00 65.00 LT.
84+00.00 50.00 LT.
86+00.00 55.00 LT.
86+00.00 50.00 LT.
PI 86+70.10
82+40.00 50.00 RT.
82+40.00 60.00 RT.
87+80.00 60.00 RT.
87+80.00 60.00 RT.

T.C.E. 14' SHARED USE PATH 10.5' BUFFER PROPOSED R/W EXIST. R/W JACKSONVILLE-CATO RD. 789.91' S57°07'48"E PC 84+04.79 85+05.00 27.00 RT. 85+10.00 29.00 RT. 16.5' 16.6' 19.9' 4' BUFFER 5' SIDEWALK 6' BUFFER 5' SIDEWALK CURVE NO. 5

STA 82+28.51
END TYPICAL SECTION (2)
BEGIN TYPICAL SECTION (1)

STA. 84+35 RT. INSTALL 18" F.E.S. W/ 18" X 65' R.C.P. OUTLET F.L. IN = 280.70

STA. 85+15 RT. INSTALL 18" F.E.S. W/ F.L. OUT = 280.19

STA. 86+60 RT. CONSTRUCT TYPE 1 DROP INLET (4' DIA.) W/ 18" x 231' R.C.P. OUTLET TOP = 282.10 INV. = 276.60 (1 / C-202)

CONCRETE DRAINAGE FLUMES			
STA.	MATERIAL	SQ. YD.	EXTENSION
82+50 LT.	P.C.C	5.2	4'
86+60 LT.	P.C.C	3.6	N/A
86+60 RT.	P.C.C	3.6	N/A

Curve No. 5
PI STA. = 86+70.10
R = 1145.92'
Dc = 5°00'00.00"
L = 521.44'
Delta = 26°04'19.1" RT.
T = 265.31'

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CERTIFICATE OF AUTHORIZATION
GARVER LLC No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 16145
CHARLES M. CULLEN
Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

JACKSONVILLE-CATO
PROFILE
ROADWAY
STA. 82+00 TO
STA 87+60
(SHEET 11 OF 20)

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

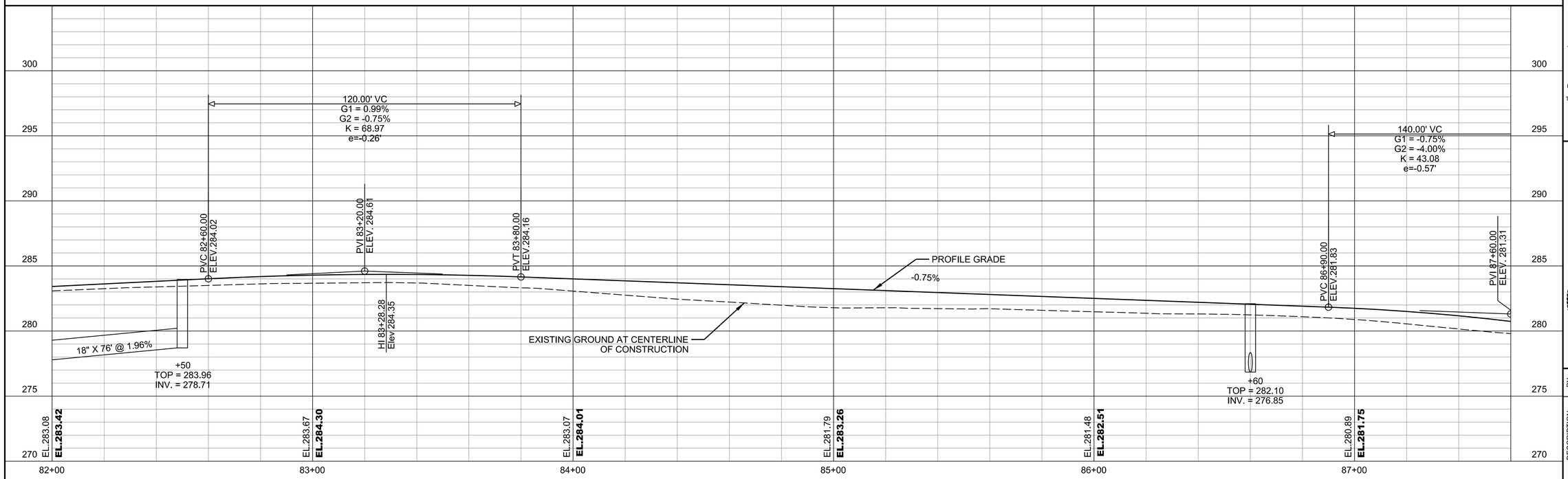
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DRAWING NUMBER
C-611

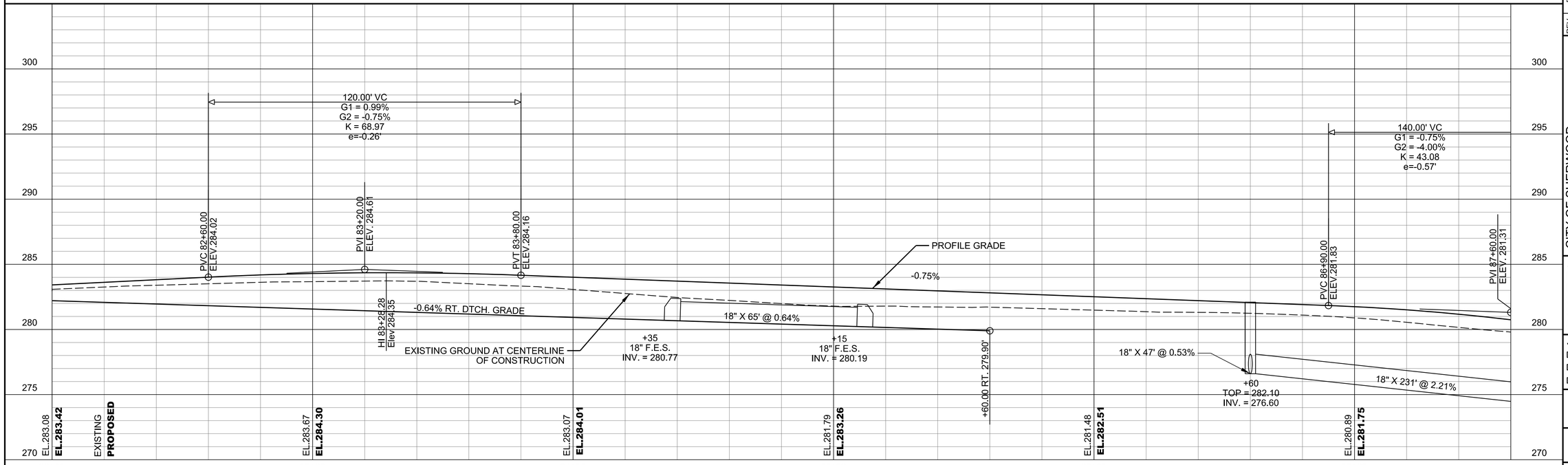
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\\garverinc.local\gldata\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C611-PP-CO6.dgn

LEFT SIDE OF JACKSONVILLE-CATO RD.



RIGHT SIDE OF JACKSONVILLE-CATO RD.



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LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

JACKSONVILLE-CATO
PROFILE
ROADWAY
STA. 82+00 TO
STA 87+60
(SHEET 12 OF 20)

JOB NO.: 18017190
DATE: SEP. 2022
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
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SHEET NUMBER **083**

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\\garverinc.local\gdata\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C612-PP-CO6.dgn

CONCRETE DRAINAGE FLUMES			
STA.	MATERIAL	SQ. YD.	EXTENSION
89+00 RT.	P.C.C.	5.4	4'
89+00 LT.	P.C.C.	3.6	N/A
90+20 LT.	P.C.C.	1.8	N/A
90+20 RT.	P.C.C.	1.8	N/A

C.L. SUBDIVISION SIDEROAD 2

C.L. JACKSONVILLE CATO RD. STA. 91+19.09=
B.L. ROUNDABOUT 2 STA. 34+11.19
∢ 89°57'07"

B.L. ROUNDABOUT 2 STA. 32+73.44=
C.L. SUBDIVISION SIDEROAD 2 STA. 21+12.41
∢ 84°06'15"

1 / C-202 — STA. 91+00 LT. CONSTRUCT TYPE 1 DROP INLET (4' DIA.) W/ 18" x 10' R.C.P. OUTLET
TOP = 268.79
INV. = 264.29

2 / C-202 — STA. 90+20 LT. CONSTRUCT 61 L.F. SPECIAL DITCH ON LT.

1 / C-202 — STA. 90+20 LT. CONSTRUCT TYPE 1 DROP INLET (5' DIA.) W/ 24" x 125' R.C.P. OUTLET
TOP = 270.97
INV. = 265.47

1 / C-202 — STA. 89+00 LT. CONSTRUCT TYPE 1 DROP INLET (4' DIA.) W/ 18" x 117' R.C.P. OUTLET
TOP = 275.75
INV. = 271.50

89+90.00 70.00 LT.
89+90.00 55.00 LT.
90+66.00 59.43 LT. 266.25'
90+89.79 70.00 LT.
90+58.75 50.00 LT.
93+20.00 95.00 LT.
93+20.00 65.00 LT.
93+07.70 50.00 LT.

T.C.E.
14' SHARED USE PATH
10.5' BUFFER
PROPOSED R/W
EXIST. R/W
R / W
TOS
TOB
OHE

JACKSONVILLE-CATO RD.
88+00
89+00
90+00
91+00
92+00
93+00
16.5'
16.5'

VAR. WIDTH
262.60'
S31°03'29"E
PT 89+26.23

6' BUFFER
5' SIDEWALK

STA 89+93.88
END TYPICAL SECTION①
END TYPICAL SECTION②

STA 90+75.00
END TYPICAL SECTION②
BEGIN TYPICAL SECTION③

STA 91+19.09
END TYPICAL SECTION④

STA 92+89.10
BEGIN TYPICAL SECTION④

87+80.00 50.00 RT.
87+80.00 60.00 RT.

1 / C-202 — STA. 89+00 RT. CONSTRUCT TYPE 1 DROP INLET (4' DIA.) W/ 18" x 116' R.C.P. OUTLET
TOP = 275.75
INV. = 271.50

1 / C-202 — STA. 90+20 RT. CONSTRUCT TYPE 1 DROP INLET (5' DIA.) W/ 18" x 44' R.C.P. OUTLET
TOP = 271.00
INV. = 265.75

90+50.98 50.00 RT.

1 / C-202 — STA. 91+10 RT. CONSTRUCT TYPE 1 DROP INLET (4' DIA.) W/ 18" x 42' R.C.P. OUTLET (CLASS V)
TOP = 267.75
INV. = 263.75

B.L. ROUNDABOUT 2

C.L. JACKSONVILLE CATO RD. STA. 92+89.10=
B.L. ROUNDABOUT 2 STA. 31+47.09
∢ 88°30'44"

PC 91+88.83
PC 20+36.79
POE 42+39.55
POB 20+00.00
PC 30+00.00
PT 35+34.07
R=35'
16'
35+34
30+00
34+00
35+00
20+00
21+00
22+00
31+00
33+00
42+00
41+00

TRUCK APRON

STA. 93+00 LT. CONSTRUCT
ARDOT TYPE C DROP INLET (12'-0" X 2-6")
W/ DBL. 30" x 42' R.C.P. OUTLET (CLASS V)
TOP = 265.94
INV. = 261.19

STA. 93+00 RT. CONSTRUCT
ARDOT TYPE C DROP INLET (12'-0" X 12-6")
W/ DBL. 44" X 27" X 275' R.C.A.P. OUTLET
TOP = 265.09
INV. = 259.84

B.L. ROUNDABOUT 2 STA. 30+00.00=
C.L. PUBLIC WORKS RD. STA. 41+55.28
∢ 82°40'34"

C.L. PUBLIC WORKS RD.

0 10' 20' 40' 60'
(IN FEET)

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GARVER LLC
No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

JACKSONVILLE-CATO
PLAN
ROADWAY
STA. 87+60 TO
STA 93+20
(SHEET 13 OF 20)

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

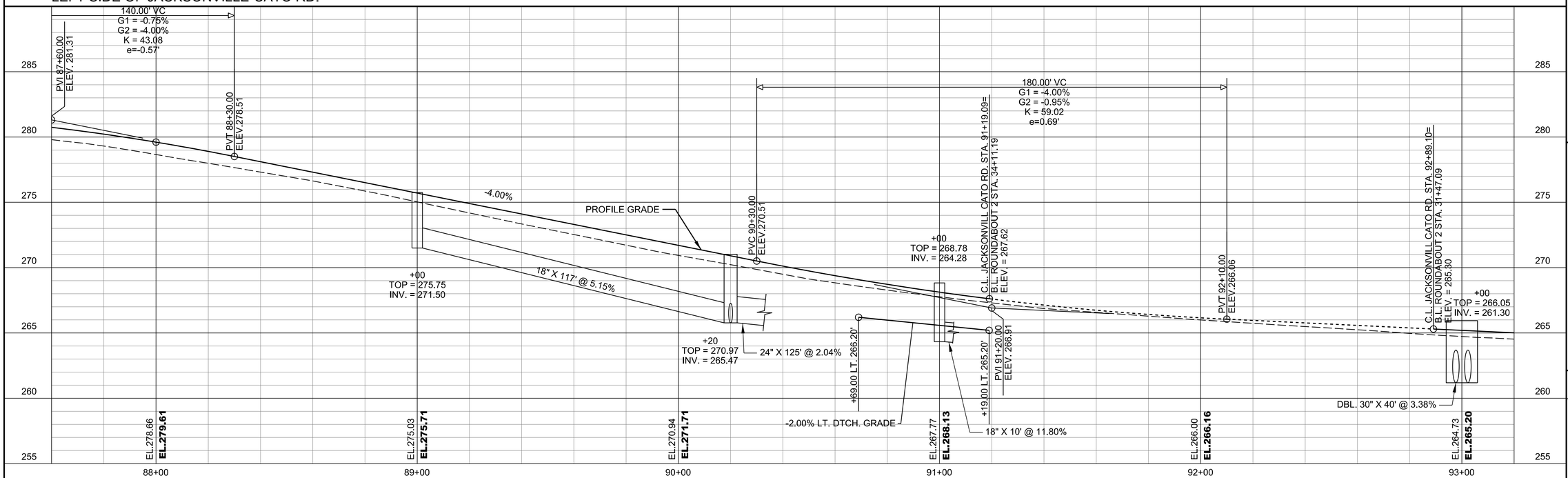
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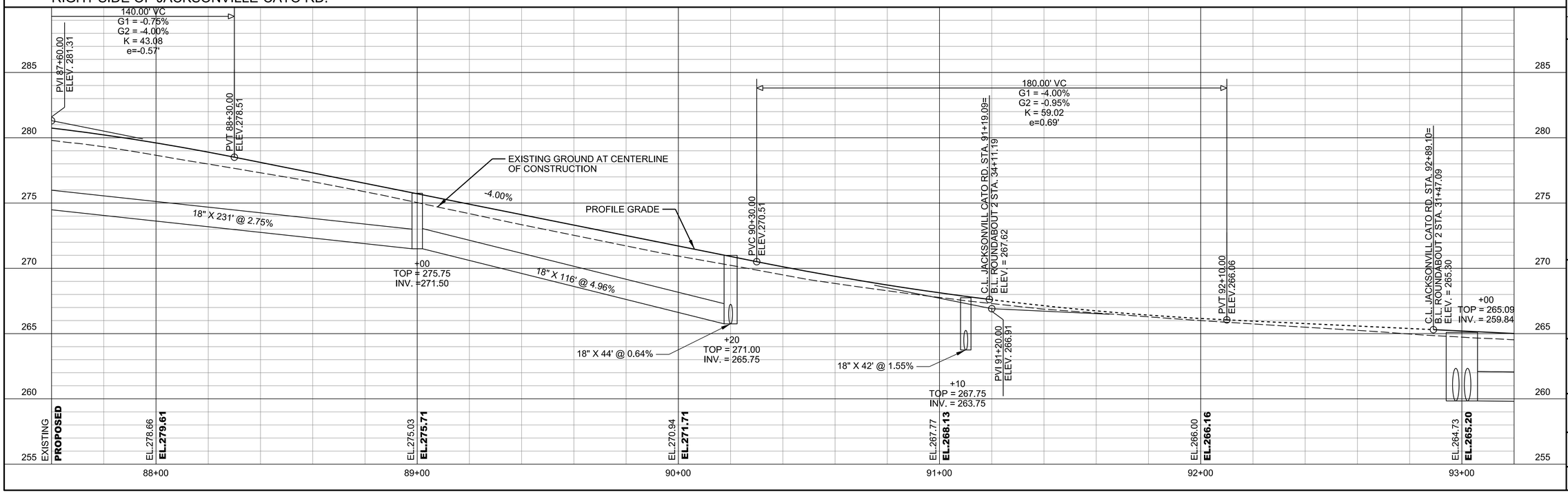
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LEFT SIDE OF JACKSONVILLE-CATO RD.



RIGHT SIDE OF JACKSONVILLE-CATO RD.



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No.16145
CHARLES M. CULLEN

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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

JACKSONVILLE-CATO
PROFILE
ROADWAY
STA. 87+60 TO
STA 93+20
(SHEET 14 OF 20)

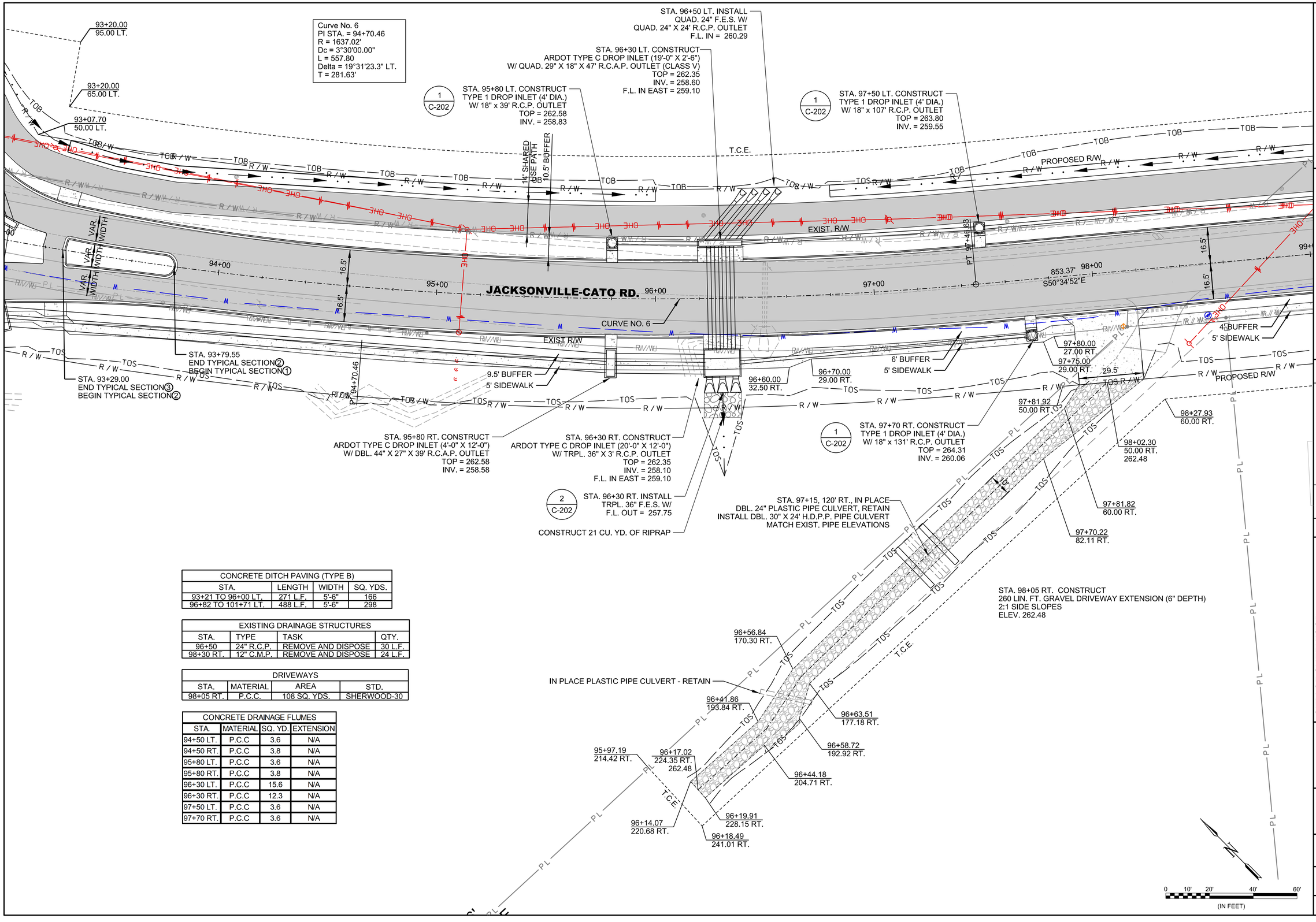
JOB NO.: 18017190
DATE: SEP. 2022
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-614

SHEET NUMBER **085**

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\WORKSPACE:Garver 2012
\\garverinc.local\gldata\Projects\20181801719O - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C614-PP-CO6.dgn



CONCRETE DITCH PAVING (TYPE B)			
STA.	LENGTH	WIDTH	SQ. YDS.
93+21 TO 96+00 LT.	271 L.F.	5'-6"	166
96+82 TO 101+71 LT.	488 L.F.	5'-6"	298

EXISTING DRAINAGE STRUCTURES			
STA.	TYPE	TASK	QTY.
96+50	24" R.C.P.	REMOVE AND DISPOSE	30 L.F.
98+30 RT.	12" C.M.P.	REMOVE AND DISPOSE	24 L.F.

DRIVEWAYS			
STA.	MATERIAL	AREA	STD.
98+05 RT.	P.C.C.	108 SQ. YDS.	SHERWOOD-30

CONCRETE DRAINAGE FLUMES			
STA.	MATERIAL	SQ. YD.	EXTENSION
94+50 LT.	P.C.C	3.6	N/A
94+50 RT.	P.C.C	3.8	N/A
95+80 LT.	P.C.C	3.6	N/A
95+80 RT.	P.C.C	3.8	N/A
96+30 LT.	P.C.C	15.6	N/A
96+30 RT.	P.C.C	12.3	N/A
97+50 LT.	P.C.C	3.6	N/A
97+70 RT.	P.C.C	3.6	N/A

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CERTIFICATE OF AUTHORIZATION
GARVER LLC No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

JACKSONVILLE-CATO
PLAN
ROADWAY
STA. 93+20 TO
STA 98+80
(SHEET 15 OF 20)

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

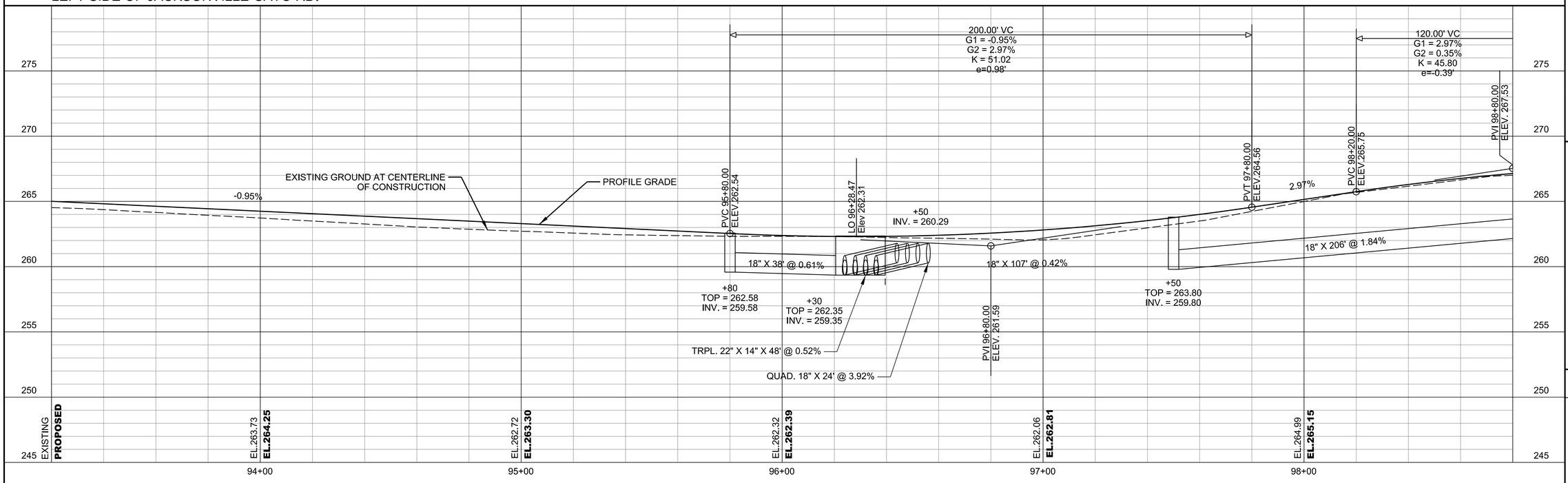
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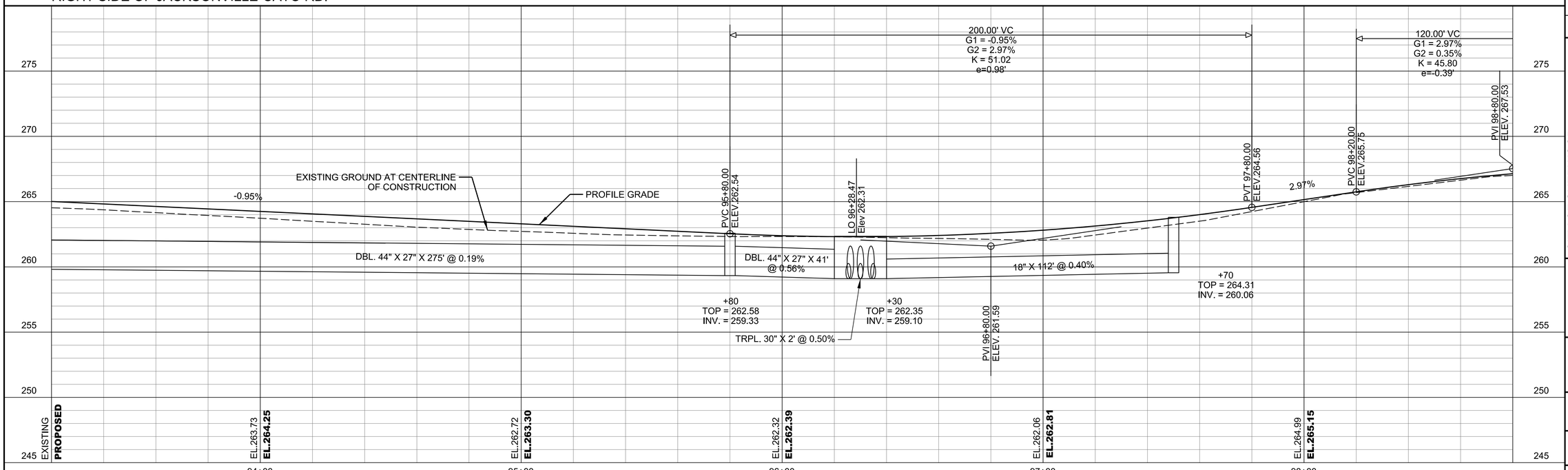
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WORKSPACE:GARVER_2012

LEFT SIDE OF JACKSONVILLE-CATO RD.



RIGHT SIDE OF JACKSONVILLE-CATO RD.



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CHARLES M. CULLEN

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REV.	DATE	DESCRIPTION	BY
1	9/29/2022	UPDATED DRAINAGE FROM STA. 94+50 TO STA. 97+70	CMC
2	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

JACKSONVILLE-CATO
PLAN AND PROFILE
STA. 93+20 TO
STA 98+80
(SHEET 16 OF 20)

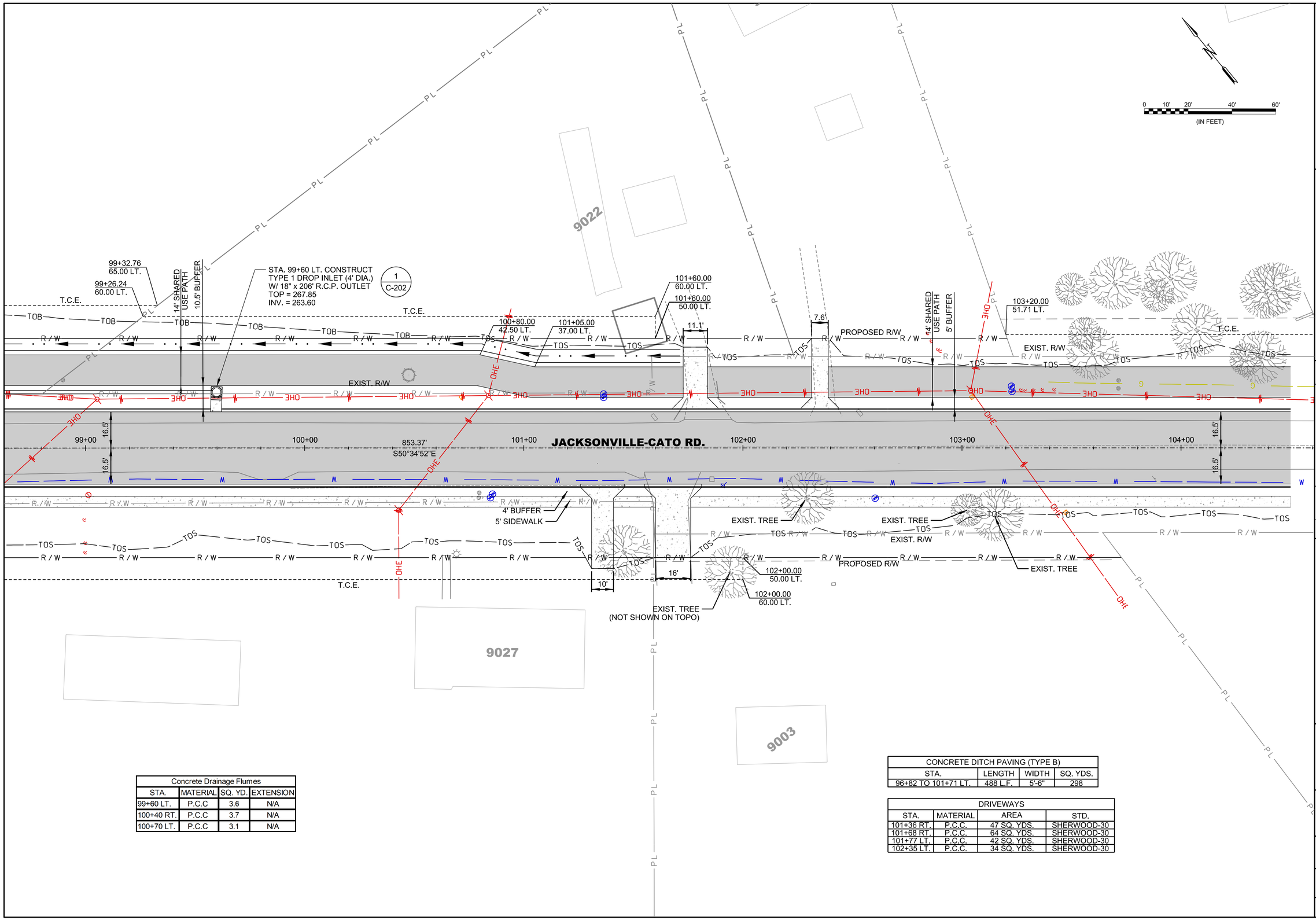
JOB NO.: 18017190
DATE: SEP. 2022
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
C-616

SHEET NUMBER **087**

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\\WORKSPACE\Garver_2012
\\garverinc.local\gdata\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C616-PP-CO6.dgn



Concrete Drainage Flumes			
STA.	MATERIAL	SQ. YD.	EXTENSION
99+60 LT.	P.C.C	3.6	N/A
100+40 RT.	P.C.C	3.7	N/A
100+70 LT.	P.C.C	3.1	N/A

CONCRETE DITCH PAVING (TYPE B)			
STA.	LENGTH	WIDTH	SQ. YDS.
96+82 TO 101+71 LT.	488 L.F.	5'-6"	298

DRIVEWAYS			
STA.	MATERIAL	AREA	STD.
101+36 RT.	P.C.C.	47 SQ. YDS.	SHERWOOD-30
101+68 RT.	P.C.C.	64 SQ. YDS.	SHERWOOD-30
101+77 LT.	P.C.C.	42 SQ. YDS.	SHERWOOD-30
102+35 LT.	P.C.C.	34 SQ. YDS.	SHERWOOD-30

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ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

JACKSONVILLE-CATO
PLAN
ROADWAY
STA. 98+80 TO
STA 104+40
(SHEET 17 OF 20)

JOB NO.: 18017190
DATE: SEP. 2022
DESIGNED BY: CMC
DRAWN BY: AMW

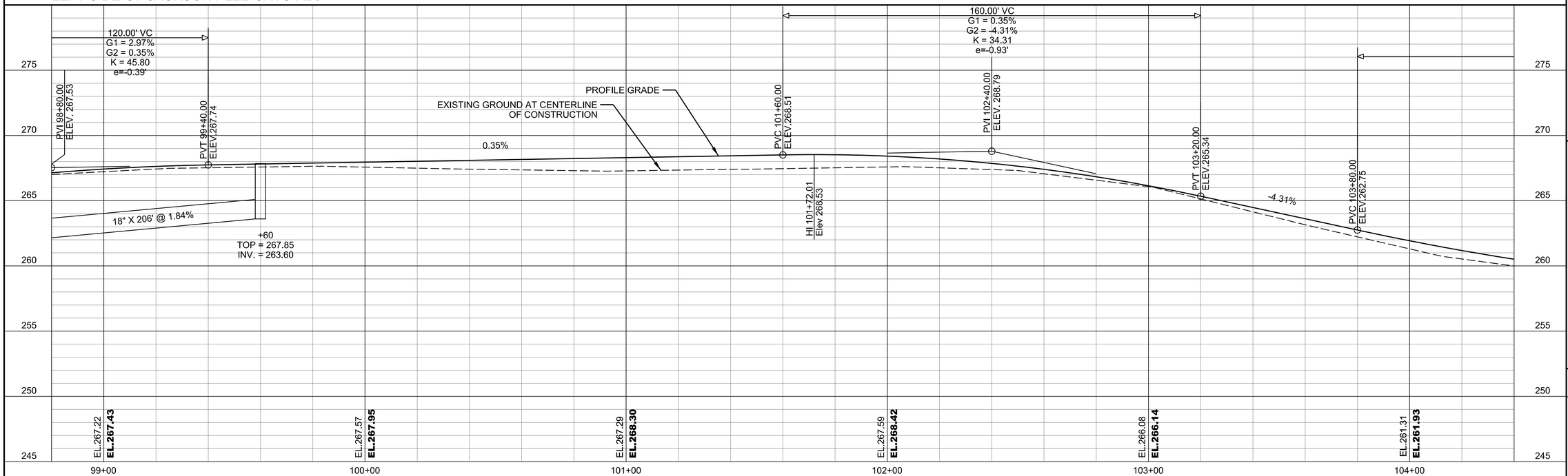
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-617

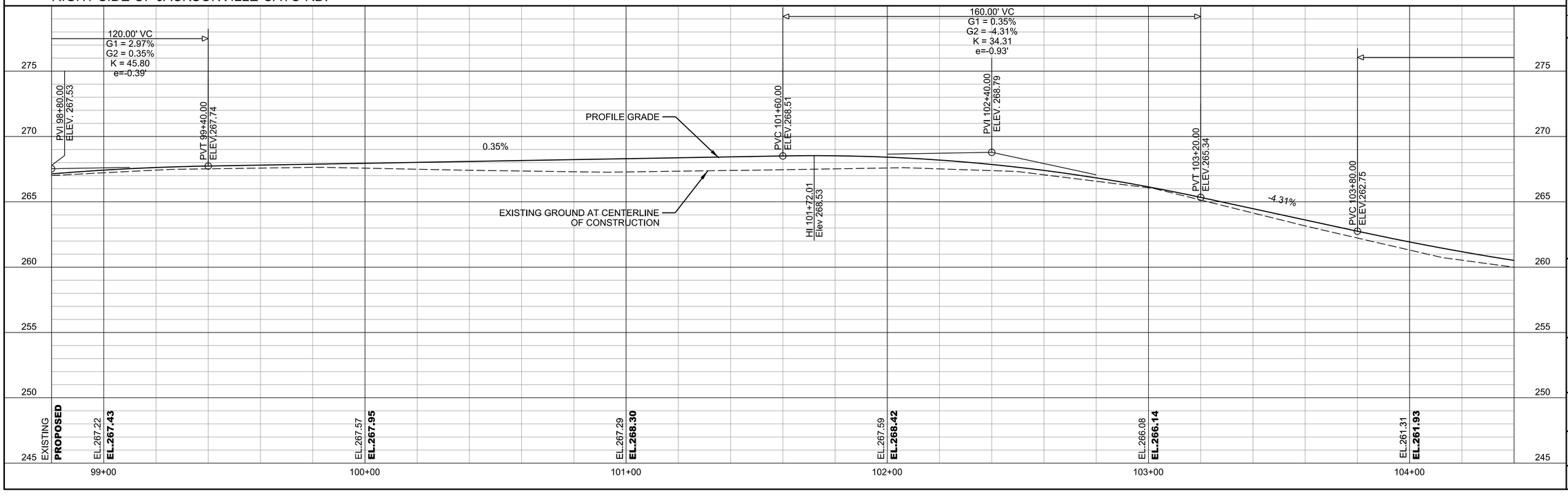
SHEET NUMBER **088**

AMWelner 6/8/2023 10:59:48 AM
WORKSPACE:Garver_2012
\\garverinc.local\gdata\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C617-PP-CO6.dgn

LEFT SIDE OF JACKSONVILLE-CATO RD.



RIGHT SIDE OF JACKSONVILLE-CATO RD.



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CERTIFICATE OF AUTHORIZATION
GARVER LLC
No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

JACKSONVILLE-CATO
PROFILE
ROADWAY
STA. 98+80 TO
STA 104+40
(SHEET 18 OF 20)

JOB NO.: 18017190
DATE: SEP. 2022
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-618

SHEET NUMBER **089**

AMWelner 6/8/2023 10:59:49 AM
\WORKSPACE:Garver 2012
\\garverinc.local\gldata\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C618-PP-CO6.dgn

STA. 104+50.00

STA. 105+50.00

14' SHARED USE PATH

5' BUFFER

EXIST. R/W

TOS

16.5'

16.5'

911.45'
S50°34'52"E

105+00

JACKSONVILLE-CATO RD.

106+00

106+72.67
50.62 LT.

PC 106+22.94

107+00

PI 107+97.45

108+00

4' BUFFER

TOS

5' SIDEWALK

STA 104+50.00
END TYPICAL SECTION①

PROPOSED R/W

EXIST. R/W

22' EXIST.

109+00

PT 109+07.79

PT 109+29.03

256.39'
S01°27'12"W

110+00

111+00

SHED

8907
HOUSE

8831

0 10' 20' 40' 60'
(IN FEET)

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No.16145
CHARLES M. CULLEN

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REV.	DATE	DESCRIPTION	BY
1	9/29/2022	WIDENED DRIVEWAY AT STA. 104+72	CMC
2	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

JACKSONVILLE-CATO
PLAN
ROADWAY
STA. 104+40 TO
STA 110+00
(SHEET 19 OF 20)

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

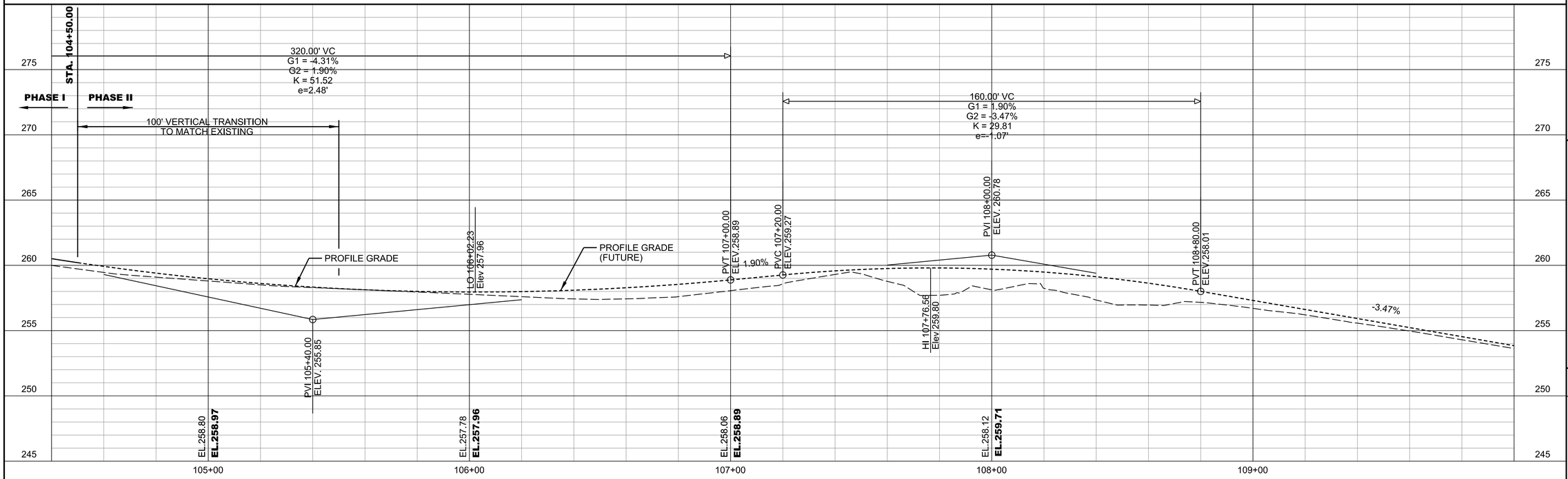
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-619

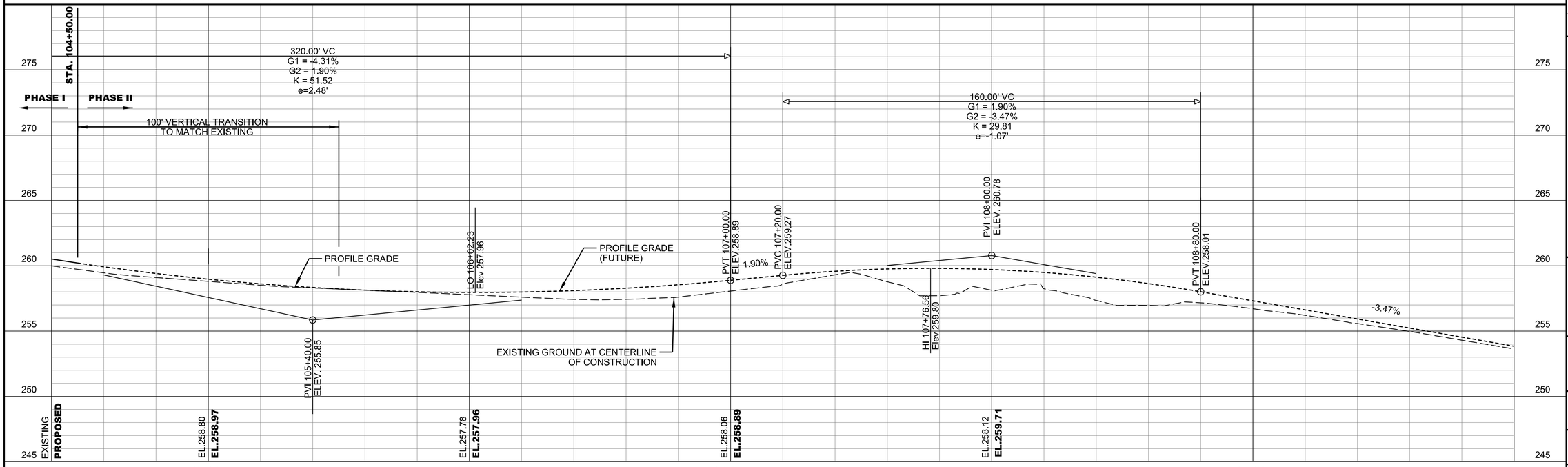
SHEET NUMBER **090**

AMWeiner 6/8/2023 10:59:50 AM
WORKSPACE:Garver_2012
\\garverinc.local\gdata\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C619-PP-CO6.dgn

LEFT SIDE OF JACKSONVILLE-CATO RD.



RIGHT SIDE OF JACKSONVILLE-CATO RD.



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CHARLES M. CULLEN
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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

JACKSONVILLE
PROFILE
ROADWAY
STA. 104+40 TO
STA 110+00
(SHEET 20 OF 20)

JOB NO.: 18017190
DATE: SEP. 2022
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-620

SHEET NUMBER 091

AMWeiner 6/8/2023 10:59:51 AM
\\WORKSPACE\Garver_2012
\\garverinc.local\gdata\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C620-PP-CO6.dgn

B.L. ROUNDABOUT 1 STA. 12+68.22=
C.L. SUBDIVISION SIDEROAD 1 STA. 11+15.32
℄ 85°16'43"

SPLITTER ISLAND

STA. 12+85 CONSTRUCT
ARDOT TYPE C DROP INLET (4'-0" X 2'-6")
W/ 18" x 24' R.C.P. OUTLET AND
8' EXTENSION
TOP = 278.83
INV. = 275.33

1 C-202

PROPOSED R/W

STA. 12+00 CONSTRUCT
TYPE 1 DROP INLET (4' DIA.)
W/ 18" x 59' R.C.P. OUTLET
TOP = 280.63
INV. = 276.63

STA. 11+40 CONSTRUCT
TYPE 1 DROP INLET (4' DIA.)
W/ 18" x 49' R.C.P. OUTLET
TOP = 282.94
INV. = 278.69

1 C-202

SPLITTER ISLAND

14' SHARED USE PATH

10.5' BUFFER

T.C.E.

P.D.E.

EXIST. R/W

PROPOSED R/W

SPLITTER ISLAND

789.81'
S57°07'48"E

EXIST. R/W

Jacksonville-Cato

PROPOSED R/W

C.L. JACKSONVILLE CATO RD. STA. 79+42.32=
B.L. ROUNDABOUT 1 STA. 14+04.81
℄ 90°00'00"

GRASSED ISLAND

C.L. JACKSONVILLE CATO RD. STA. 81+12.31=
B.L. ROUNDABOUT 1 STA. 11+37.37
℄ 90°00'00"

TRUCK APRON

STA. 10+80 CONSTRUCT
TYPE 1 DROP INLET (4' DIA.)
W/ 18" x 58' R.C.P. OUTLET
TOP = 285.18
INV. = 280.93

1 C-202

STA. 14+80 CONSTRUCT
TYPE 1 DROP INLET (4' DIA.)
W/ 18" x 61' R.C.P. OUTLET
TOP = 284.50
INV. = 279.50

1 C-202

B.L. ROUNDABOUT 1 STA. 10+01.19=
C.L. SUBDIVISION SIDEROAD 3 STA. 32+34.68
℄ 85°16'43"

Curve No. 1
P.I. STA. = N/A
R = 85.00'
Dc = 67°24'24.48"
L = 534.07'
Delta = 360°00'00.0" LT.
T = N/A

0 15' 30' 60' 90'
(IN FEET)

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	9/29/2022	ADJUSTED PLAN FOR ROUNDABOUT LEG ADDITION	CMC
2	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

PVI 15+34.07
ELEV. 285.41
140.00' VC
G1 = 3.47%
G2 = -3.85%
K = 19.12
e=-1.28'
PVI 10+26.68
ELEV. 286.83
PVT 10+96.68
ELEV.284.13
C.L. JACKSONVILLE CATO RD. STA. 81+12.31=
B.L. ROUNDABOUT 1 STA. 11+37.37
ELEV. = 282.57
PVC 12+10.00
ELEV.279.77
PROFILE GRADE
B.L. ROUNDABOUT 1 STA. 12+68.22=
C.L. SUBDIVISION SIDEROAD 1 STA. 11+15.32
ELEV. = 278.41
LO 12+83.60
Elev 278.35
PVT 13+50.00
ELEV.279.51
140.00' VC
G1 = -3.85%
G2 = 3.47%
K = 19.12
e=1.28'
C.L. JACKSONVILLE CATO RD. STA. 79+42.31=
B.L. ROUNDABOUT 1 STA. 14+04.81
ELEV. = 281.41
PVC 14+90.75
ELEV.284.39
140.00' VC
G1 = 3.47%
G2 = -3.85%
K = 19.12
e=-1.28'
PVI 15+34.07
ELEV. 285.41
HI 10+23.08
Elev 285.55
-3.85%
3.47%
18" X 58' @ 3.86%
18" X 49' @ 2.43%
18" X 59' @ 1.92%
18" X 21' @ 2.33%
18" X 61' @ 8.72%
EXISTING GRADE AT CENTERLINE OF CONSTRUCTION
10+80
TOP = 285.18
INV. = 280.93
11+40
TOP = 282.94
INV. = 278.69
12+00
TOP = 280.63
INV. = 276.63
12+85
TOP = 278.83
INV. = 275.33
14+80
TOP = 284.50
INV. = 279.50
PVI 12+80.00
ELEV. 277.07
EL.285.68 EL.285.41
EL.283.86 EL.284.00
EL.278.57 EL.280.15
EL.276.14 EL.278.42
EL.281.14 EL.281.24
EL.284.96 EL.284.69
310 305 300 295 290 285 280 275 270 265
9+00 10+00 11+00 12+00 13+00 14+00 15+00 16+00

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

ROUNDABOUT 1
PLAN AND PROFILE
STA. 10+00 TO
STA 15+34
(SHEET 1 OF 1)

JOB NO.: 18017190
DATE: SEP. 2022
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-621

SHEET NUMBER 092

AMWeiner 6/8/2023 10:59:52 AM
\\GARVERINC.LOCAL\GLOBAL\Projects\20181801790 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C621-PP-CO6.dgn

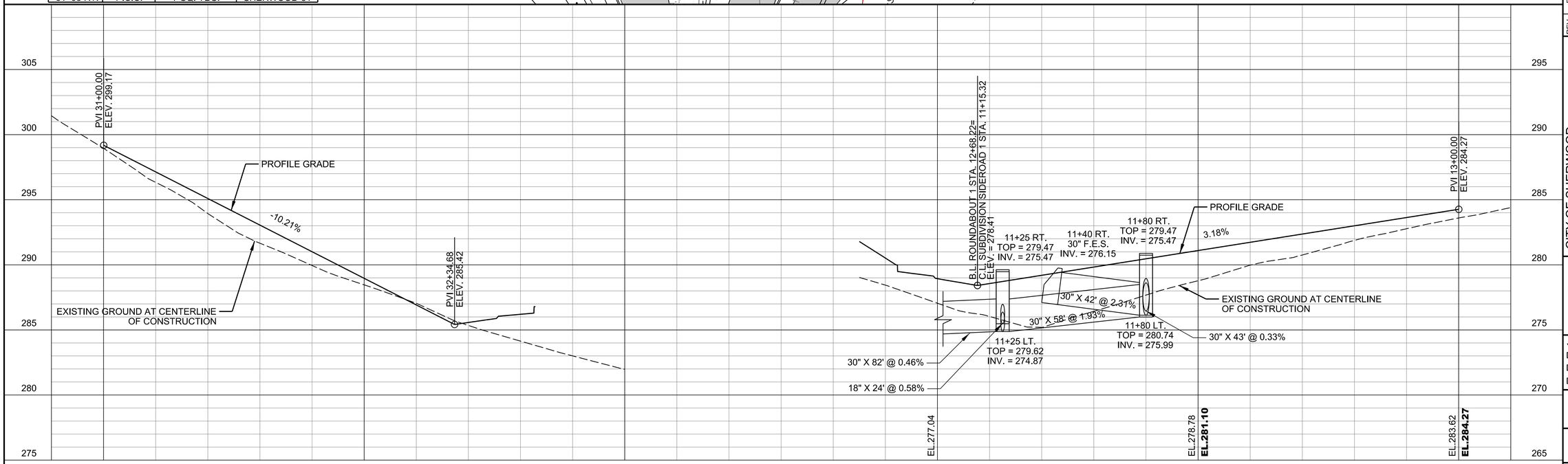
Curve No. 1
P.I. STA. = 32+07.03
R = 2864.79'
Dc = 2°00'00.00"
L = 209.83'
Delta = 4°11'47.9" RT.
T = 104.96'

0 10' 20' 40' 60'
(IN FEET)

B.L. ROUNDABOUT 1
C.L. JACKSONVILLE-CATO RD.
FALSE
B.L. ROUNDABOUT 1 STA. 10+01.19=
C.L. SUBDIVISION SIDEROAD 3 STA. 32+34.68
∢ 85°16'43"
32+13.16
54.26 LT.
31+84.50
40.45 LT.
1 C-202
STA. 31+00.00
BEGIN TYPICAL SECTION ⑦
31+01.67
24.08 LT.
PROPOSED R/W
R / W
TOS
EXIST. R/W
CURVE NO. 1
PC 10+00.00
PT 15+34.07
EXIST. R/W PT 33+11.90
POE 33+50.00
38.10'
N28°40'24"E
CURVE NO. 2
STA. 11+15.32
BEGIN TYPICAL SECTION ⑤
STA. 32+34.68
END TYPICAL SECTION ⑤
102.07'
N32°52'12"E
12'
31+00
32+00
33+00
33+50
12+00
13+00
152.07'
N32°52'12"E
EXIST. 32+07.03
EXIST. R/W PC 31+02.07
30+99.50
24.81 RT.
C.L. SUBDIVISION SIDEROAD 3
STA. 31+69.44
END TYPICAL SECTION ⑦
BEGIN TYPICAL SECTION ⑤
31+88.00
40.48 RT.
32+26.44
68.96 RT.
11+00
11+31.72
90.40 RT.
P.D.E.
14'-0" SHARED-USE PATH
STA. 11+25 LT. CONSTRUCT
TYPE 1 DROP INLET (5' DIA.)
W/ 30" x 82' R.C.P. OUTLET
TOP = 279.62
INV. = 274.87
11+56.55
92.59 LT.
B.L. ROUNDABOUT 1 STA. 12+68.22=
C.L. SUBDIVISION SIDEROAD 1 STA. 11+15.32
∢ 85°16'43"
STA. 11+80 LT. CONSTRUCT
TYPE 1 DROP INLET (5' DIA.)
W/ 30" x 58' R.C.P. OUTLET
TOP = 280.74
INV. = 275.99
1 C-202
11+32.93
58.14 LT.
T.C.E.
12+58.14
63.51 LT.
STA. 11+80.57
END TYPICAL SECTION ⑤
BEGIN TYPICAL SECTION ⑦
12+47.93
24.83 LT.
STA. 11+80.57
END TYPICAL SECTION ⑦
C.L. SUBDIVISION SIDEROAD 1
PI 11+43.93
Curve No. 2
P.I. STA. = 11+43.07
R = 2864.79'
Dc = 2°00'00.00"
L = 209.83'
Delta = 4°11'47.9" RT.
T = 104.96'
PT 12+47.93
12+47.93
28.72 RT.
11+74.22
46.55 RT.
11+25.72
57.15 RT.
STA. 11+25 RT. CONSTRUCT
TYPE 1 DROP INLET (5' DIA.)
W/ 18" x 24' R.C.P. OUTLET
TOP = 279.47
INV. = 275.47
1 C-202
STA. 11+80 RT. CONSTRUCT
TYPE 1 DROP INLET (5' DIA.)
W/ 30" x 43' R.C.P. OUTLET
TOP = 280.88
INV. = 276.13
1 C-202
STA. 11+40 RT. CONSTRUCT
30" F.ES.
W/ 30" x 42' R.C.P. OUTLET
F.L. IN = 276.15
11+73.01
91.74 RT.

WHEELCHAIR RAMPS

STA.	TYPE	AREA	STD.
11+55 LT.	P.C.C.	7 SQ. YDS.	SHERWOOD-51
11+55 RT.	P.C.C.	7 SQ. YDS.	SHERWOOD-51
31+95 LT.	P.C.C.	7 SQ. YDS.	SHERWOOD-51
31+95 RT.	P.C.C.	7 SQ. YDS.	SHERWOOD-51



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STATE OF ARKANSAS
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No.16145
CHARLES M. CULLEN
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REV.	DATE	DESCRIPTION	BY
1	9/29/2022	ADJUSTED PLAN FOR ROUNDABOUT LEG ADDITION	CMC
2	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

PLAN AND PROFILE
SUBDIVISION
SIDE ROAD 1

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-622

SHEET NUMBER 093

AMWeiner 6/8/2023 10:59:53 AM
W:\RKSPACE\Garver_2012 \\garverinc.local\gdata\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C622-PP-CO6.dgn

Curve No. 1
P.I. STA. = N/A
R = 85.00'
Dc = 67°24'24.48"
L = 534.07'
Delta = 360°00'00.0" LT.
T = N/A

STA. 32+75 CONSTRUCT
ARDOT TYPE C DROP INLET (4'-0" X 12'-0")
W/ DBL. 30" x 63' R.C.P. OUTLET
TOP = 269.87
INV. = 262.37

B.L. ROUNDABOUT 2 STA. 32+73.44=
C.L. SUBDIVISION SIDEROAD 2 STA. 21+12.41
℄ 84°06"15"

STA. 33+40 CONSTRUCT
ARDOT TYPE C DROP INLET (6'-6" X 8'-0")
W/ DBL. 30" x 63' R.C.P. OUTLET
TOP = 269.42
INV. = 262.92

STA. 33+50 CONSTRUCT
30" F.E.S.
W/ 30" X 19' R.C.P. OUTLET
F.L. IN = 265.27

1 C-202
STA. 34+00 CONSTRUCT
TYPE 1 DROP INLET (5' DIA.)
W/ 18" X 57' R.C.P. OUTLET
TOP = 268.35
INV. = 263.10

C.L. JACKSONVILLE CATO RD.

14' SHARED USE PATH

10.5' BUFFER

T.C.E.

SPLITTER ISLAND

C.L. SUBDIVISION SIDEROAD 2

SPLITTER ISLAND

PROPOSED R/W

STA. 32+15 CONSTRUCT
ARDOT TYPE C DROP INLET (4'-0" X 10'-0")
W/ 4' EXTENSION AND
DBL. 30" X 61' R.C.P. OUTLET
TOP = 268.28
INV. = 262.03

C.L. JACKSONVILLE CATO RD. STA. 92+89.10=
B.L. ROUNDABOUT 2 STA. 31+47.09
℄ 88°30"44"

PROPOSED R/W

PROPOSED R/W

P.I. 21+51.88

EXIST. R/W

EXIST. R/W

PC 91+88.83

PC 20+36.79

PCE 42+39.55

PCE 20+00.00

PC 30+00.00

PT 35+34.07

P.I. 94+70.46

88+00 89+00 90+00 91+00 92+00 93+00 94+00 95+00 96+00

22+00 21+00 33+00 34+00 31+00 35+00 30+00

16.5' 16.5' 16.5' 16.5'

15' 16' 20'

R/W TOS TOB PL OHE M

4' BUFFER

5' SIDEWALK

PT 89+46.23

C.L. JACKSONVILLE CATO RD. STA. 91+19.09=
B.L. ROUNDABOUT 2 STA. 34+11.19
℄ 89°57"07"

B.L. ROUNDABOUT 2

1 C-202
STA. 34+90 CONSTRUCT
TYPE 1 DROP INLET (4' DIA.)
W/ 18" X 22' R.C.P. OUTLET
TOP = 266.62
INV. = 262.37

SPLITTER ISLAND

TRUCK APRON

STA. 30+85 CONSTRUCT
ARDOT TYPE C DROP INLET (4'-0" X 5-6")
W/ 8' EXTENSION AND 4' EXTENSION AND
44" X 27" X 34' R.C.A.P. OUTLET
TOP = 264.46
INV. = 260.21

B.L. ROUNDABOUT 2 STA. 30+00.00=
C.L. PUBLIC WORKS RD. STA. 41+55.28
℄ 82°40"34"

C.L. PUBLIC WORKS RD.

0 15' 30' 60' 90'
(IN FEET)

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LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

290 285 280 275 270 265 260 255 250 245

EL.254.15 **EL.265.32** EL.263.11 **EL.264.06** EL.267.79 **EL.267.26** EL.269.82 **EL.269.25** EL.267.23 **EL.267.83** EL.265.44 **EL.265.96**

29+00 30+00 31+00 32+00 33+00 34+00 35+00 36+00

B.L. ROUNDABOUT 1 STA. 30+00.00=
C.L. PUBLIC WORKS RD. STA. 41+55.28
ELEV. = 265.32
ELEV 265.32
-1.87%
PVC 30+57.95
ELEV 264.23
LO 30+84.86
Elev 263.98
PVI 30+97.95
ELEV. 263.48
80.00' VC
G1 = -1.87%
G2 = 3.70%
K = 14.36
e=0.56'
PVT 31+37.95
ELEV 264.96
C.L. JACKSONVILLE CATO RD. STA. 92+89.10=
B.L. ROUNDABOUT 1 STA. 31+47.09
ELEV. = 265.30
3.70%
PVC 32+07.56
ELEV 267.54
B.L. ROUNDABOUT 2 STA. 32+73.44=
C.L. SUBDIVISION SIDEROAD 2 STA. 21+12.41
ELEV. = 269.10
PVI 32+77.56
ELEV 270.12
140.00' VC
G1 = 3.70%
G2 = -1.87%
K = 25.14
e=-0.97'
PVT 33+47.56
ELEV 268.81
30" X 19' @ 12.37%
PROFILE GRADE
33+50
TOP = 265.27
HI 33+00.48
Elev 269.25
C.L. JACKSONVILLE CATO RD. STA. 91+19.09=
B.L. ROUNDABOUT 1 STA. 34+11.19
ELEV. = 267.62
-1.87%
PVI 35+34.07
ELEV 265.32
34+90
TOP = 266.62
INV. = 262.37
18" X 22' @ 0.86%
DBL. 30" X 63' @ 0.56%
DBL. 30" X 65' @ 0.87%
18" X 57' @ 0.32%
DBL. 30" X 61' @ 1.38%
44" X 27" X 34' @ 1.08%
30+85
TOP = 264.46
INV. = 260.21
32+15
TOP = 268.28
INV. = 262.03
32+75
TOP = 269.87
INV. = 262.37
33+40
TOP = 269.42
INV. = 262.92
34+00
TOP = 268.35
INV. = 263.10
EXISTING GRADE AT CENTERLINE OF CONSTRUCTION

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

ROUNDABOUT 2
PLAN AND PROFILE
STA. 30+00 TO
STA 35+34
(SHEET 1 OF 1)

JOB NO.: 18017190
DATE: SEP. 2022
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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DRAWING NUMBER
C-623

SHEET NUMBER **094**

AMWelner 6/8/2023 10:59:53 AM
\\GarverInc.local\gdata\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C623-PP-CO6.dgn
WORKSPACE:Garver_2012

STA. 41+46 LT. CONSTRUCT
ARDOT TYPE C DROP INLET (12'-0" X 6-0")
W/ 44" X 27" X 37' R.C.A.P. OUTLET AND
BACK OPENING
TOP = 266.43
INV. = 262.18

C.L. JACKSONVILLE-CATO RD.

SPLITTER ISLAND

STA. 41+00 LT. CONSTRUCT
ARDOT TYPE C DROP INLET (5'-6" X 5'-6")
W/ 44" X 27" X 36' R.C.A.P. OUTLET AND
TOP = 267.63
INV. = 261.88

C.L. PUBLIC WORKS RD.

POB 40+00.00
40+00
12'
12'
239.55'
N58°44'31"E
41+00
35+34
30+00.00
PT 35+34.07
42+00
POB 20+00.00
20+00
36.79'
N54°20'26"E
PC 20+36.79
EXIST. R/W
42+40
POE 42+39.55
PC 91+88.83
92+00
91+00
34+00
35+00
33+00
31+00
30+00
21+00
22+00

STA. 40+15.00
BEGIN TYPICAL SECTION ⑦

STA. 41+00.48
END TYPICAL SECTION ⑦
BEGIN TYPICAL SECTION ⑥

STA. 41+00 RT. CONSTRUCT
ARDOT TYPE C DROP INLET (5'-6" X 6'-0")
W/ 44" X 27" X 97' R.C.A.P. OUTLET AND
TOP = 267.33
INV. = 260.83

STA. 41+52.27
END TYPICAL SECTION ⑥

B.L. ROUNDABOUT 2

CURVE NO. 1

STA. 21+20 LT. CONSTRUCT
TYPE 1 DROP INLET (4' DIA.)
W/ 18" x 31' R.C.P. OUTLET
TOP = 269.93
INV. = 262.93

1 C-202

21+33.96
65.53 LT.

STA. 21+16.09
BEGIN TYPICAL SECTION ⑤

STA. 21+80 LT. CONSTRUCT
TYPE 1 DROP INLET (4' DIA.)
W/ 18" x 39' R.C.P. OUTLET
TOP = 273.96
INV. = 268.71

1 C-202

STA. 22+50.00
END TYPICAL SECTION ⑦

POE 23+00.00
23+00
33.14'
N58°56'31"E
22+48.40
24.10 LT.
PI 21+51.88
22+66.86
PT 22+66.86
22+48.45
25.21 RT.

C.L. SUBDIVISION SIDE RD. 2

STA. 21+85.35
END TYPICAL SECTION ⑤
BEGIN TYPICAL SECTION ⑦

SPLITTER ISLAND

PROPOSED R/W

STA. 21+80 RT. CONSTRUCT
TYPE 1 DROP INLET (4' DIA.)
W/ 18" x 90' R.C.P. OUTLET
TOP = 273.95
INV. = 268.45

1 C-202

21+20.89
64.11 RT.

21+06.43
68.10 RT.

T.C.E.

Curve No. 1
P.I. STA. = 21+51.88
R = 2864.79'
Dc = 2°00'00.00"
L = 230.07'
Delta = 4°36'05.1" RT.
T = 115.10

0 10' 20' 40' 60'
(IN FEET)

WHEELCHAIR RAMPS			
STA.	TYPE	AREA	STD.
41+20 LT.	P.C.C.	7 SQ. YDS.	SHERWOOD-51
41+20 RT.	P.C.C.	7 SQ. YDS.	SHERWOOD-51
21+50 LT.	P.C.C.	7 SQ. YDS.	SHERWOOD-51
21+50 RT.	P.C.C.	7 SQ. YDS.	SHERWOOD-51

PUBLIC WORKS RD.

PVI 40+15.00
ELEV. 270.14

PROFILE GRADE

-3.43%

41+00 LT.
TOP = 267.63
INV. = 261.88

B.L. ROUNDABOUT 1 STA. 30+00.00=
C.L. PUBLIC WORKS RD. STA. 41+55.28
ELEV. = 265.32

EXISTING GROUND AT
CENTERLINE OF CONSTRUCTION

44" X 27" X 34'
@ 0.84%

44" X 27" X 36' @ 2.89%

41+45 LT.
TOP = 266.43
INV. = 262.18

41+00 RT.
TOP = 267.43
INV. = 260.83

44" X 27" X 97' @ 0.64%

EL.270.98
EL.266.65
EL.267.22
EL.264.25

SUBDIVISION SIDEROAD 2

B.L. ROUNDABOUT 2 STA. 32+73.44=
C/L SUBDIVISION SIDEROAD 2 STA. 21+12.41
ELEV. = 269.10

EXISTING GROUND AT
CENTERLINE OF CONSTRUCTION

PVI 22+33.99
ELEV. 277.60

21+80 LT.
TOP = 273.96
INV. = 268.71

6.99%

PROFILE GRADE

18" X 39' @ 0.67%

18" X 90' @ 7.13%

21+80 RT.
TOP = 273.95
INV. = 268.45

18" X 31' @ 1.81%

21+20 LT.
TOP = 269.93
INV. = 262.93

EL.263.91
EL.269.10
EL.275.66
EL.275.23
EL.284.44

280 275 270 265 260 255 250

40+00 41+00 42+00 20+00 21+00 22+00 23+00

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CERTIFICATE OF AUTHORIZATION
GARVER LLC
No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

PLAN AND PROFILE
SUBDIVISION
SIDE ROAD 2 AND
PUBLIC WORKS ROAD

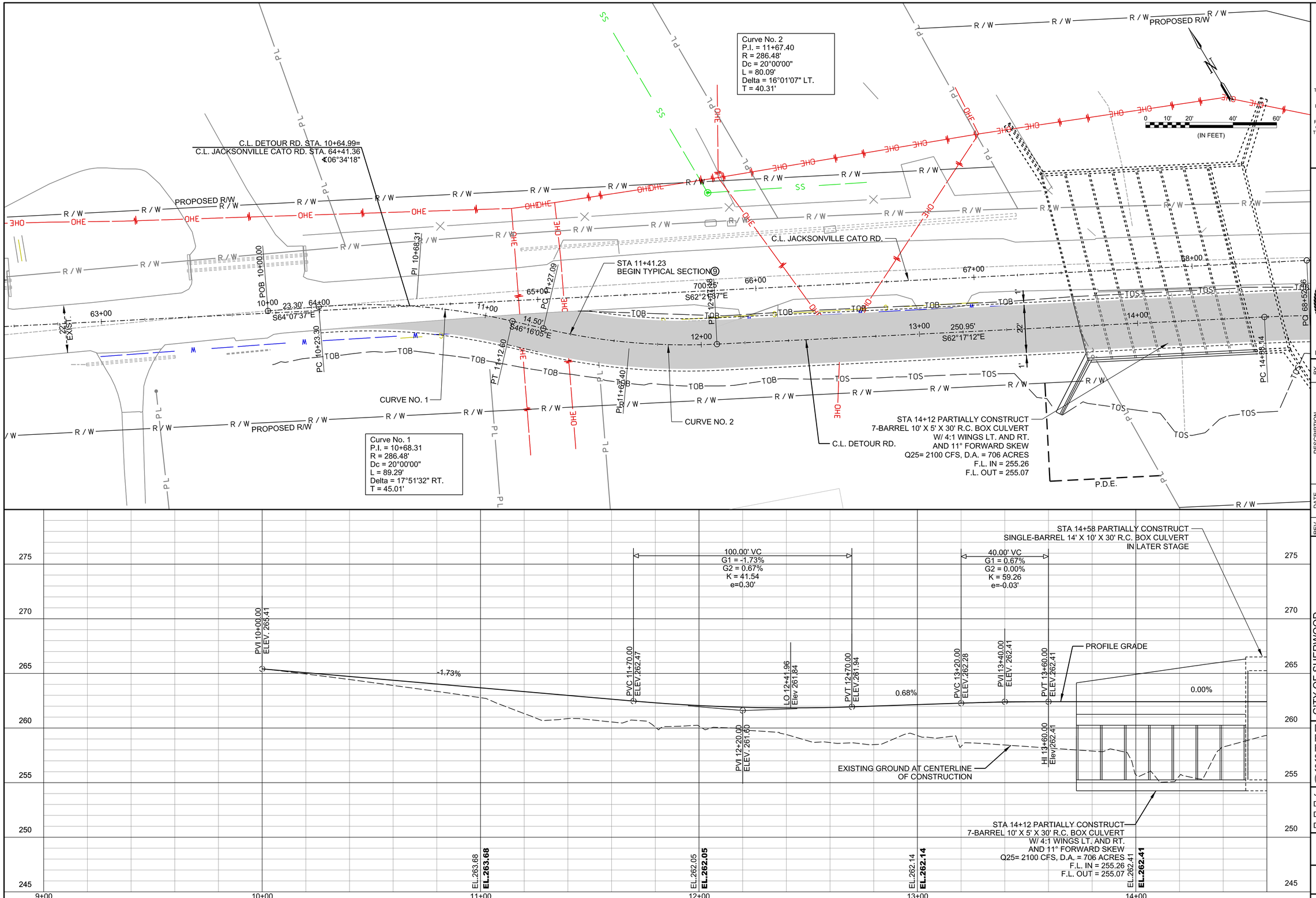
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-624

SHEET NUMBER **095**

AMWelner
6/8/2023
10:59:54 AM
WORKSPACE:Garver_2012
\\garverinc.local\gdata\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C624-PP-CO6.dgn



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LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN
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REV.	DATE	DESCRIPTION	BY
1	9/29/2022	REISSUED SHEET - CHANGED DETOUR RD. ALIGNMENT	CMC
2	6/8/2023	REISSUED SHEET - UPDATED DETOUR RD. ALG.	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

DETOUR RD.
PLAN & PROFILE
ROADWAY
STA. 11+03 TO
STA 15+80
(SHEET 1 OF 2)

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-625

SHEET NUMBER 096

AMWeiner 6/8/2023 10:59:55 AM
\\WORKSPACE\Garver_2012
\\garverinc.local\gldata\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C625-PP - CO6.dgn

Curve No. 4
P.I. = 18+61.86
R = 286.48'
Dc = 20°00'00"
L = 68.90'
Delta = 13°46'47" LT.
T = 34.62'

0 10' 20' 40' 60'
(IN FEET)

STA 18+83.31
END TYPICAL SECTION ⑨

PROPOSED R/W

EXIST. R/W

C.L. JACKSONVILLE CATO RD.

PI 15+80.91

PI 19+62.97

CURVE NO. 5

POE 20+36.21

292.42'
S36°44'48"E

126.86'
S39°16'25"E

32.74'
S36°44'48"E

250.96'
S62°17'12"E

PC 14+58.69

PC 15+89.23

PT 17+87.16

PC 18+27.24

PT 18+96.14

PC 19+25.79
S53°3'12"E

PT 19+83.46

PT 17+00.38

PI 18+61.86

CURVE NO. 3

CURVE NO. 4

C.L. DETOUR RD.

C.L. JACKSONVILLE CATO RD. STA. 73+87.26=
C.L. DETOUR RD. STA. 20+03.24
Δ 00°00'00"

Curve No. 3
P.I. = 15+80.91
R = 603.11'
Dc = 9°30'00"
L = 242.24'
Delta = 23°00'47" RT.
T = 122.78'

Curve No. 5
P.I. = 19+62.97
R = 286.48'
Dc = 20°00'00"
L = 81.53'
Delta = 16°18'25" RT.
T = 41.04'

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REV.	DATE	DESCRIPTION	BY
1	9/29/2022	REISSUED SHEET - CHANGED DETOUR RD. ALIGNMENT	CMC
2	6/8/2023	REISSUED SHEET - UPDATED DETOUR RD. ALG.	CMC

280
275
270
265
260
255
250

40.00' VC
G1 = 0.00%
G2 = 1.28%
K = 31.16
e=0.06'

120.00' VC
G1 = 1.28%
G2 = 0.52%
K = 157.26
e=-0.11'

PVC 15+00.00
ELEV. 262.41

PVI 15+20.00
ELEV. 262.41

PVT 15+40.00
ELEV. 262.67

PROFILE GRADE

1.28%

EXISTING GROUND AT CENTERLINE OF CONSTRUCTION

PVC 18+40.00
ELEV. 266.52

PVI 19+00.00
ELEV. 267.29

PVT 19+60.00
ELEV. 267.60

0.52%

EL. 262.41 **EL.262.41**
EL. 263.44 **EL.263.44**
EL. 264.72 **EL.264.72**
EL. 266.00 **EL.266.00**
EL. 267.17 **EL.267.17**
EL. 267.81 **EL.267.81**

15+00 16+00 17+00 18+00 19+00 20+00

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

DETOUR RD.
PLAN & PROFILE
ROADWAY
STA. 15+80 TO
STA 19+22
(SHEET 2 OF 2)

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-626

SHEET NUMBER **097**

AMWeiner 6/8/2023 10:59:56 AM
\\GARVERINC.LOCAL\GIS\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C626-PP - CO6.dgn

Curve No. 5
P.I. STA. = 105+29.62
R = 20.00'
Dc = 286°28'44.03"
L = 47.56'
Delta = 136°15'44.6" RT.
T = 49.83'

Curve No. 6
P.I. STA. = 105+53.08
R = 20.00'
Dc = 286°28'44.03"
L = 8.91'
Delta = 25°31'03.8" LT.
T = 4.53'

Curve No. 7
P.I. STA. = 106+41.35
R = 300.00'
Dc = 19°05'54.94"
L = 46.92'
Delta = 8°57'37.5" RT.
T = 23.51'

Curve No. 8
P.I. STA. = 107+74.30
R = 20.00'
Dc = 286°28'44.03"
L = 31.52'
Delta = 90°18'20.7" RT.
T = 20.11'

C.L. JACKSONVILLE CATO RD. STA. STA. 68+29.91 =
C.L. UNDERPASS ACCESS STA. STA. 104+00.15
∢ 78°39'31"

CURVE NO. 5
CURVE NO. 6
CURVE NO. 7
CURVE NO. 8
CURVE NO. 4
CURVE NO. 3
CURVE NO. 2
CURVE NO. 1

C.L. UNDERPASS ACCESS
C.L. JACKSONVILLE CATO RD.
EXIST. R/W
PROPOSED R/W
T.C.E.
P.D.E.

STA. 104+46.76
BEGIN TYPICAL SECTION (10)

STA. 107+87.81
END TYPICAL SECTION (10)

STA. 103+58.76
END TYPICAL SECTION (10)

STA 100+00.00
BEGIN TYPICAL SECTION (10)

STA 68+30 CONSTRUCT
SINGLE-BARREL 14' X 10 X 88' R.C. BOX CULVERT
W/ 4:1 WINGS LT. AND RT.

JACKSONVILLE-CATO RD.

Curve No. 4
P.I. STA. = 103+01.84
R = 20.00'
Dc = 286°28'44.03"
L = 33.21'
Delta = 95°07'55.4" RT.
T = 21.88'

Curve No. 3
P.I. STA. = 102+43.41
R = 20.00'
Dc = 286°28'44.03"
L = 5.02'
Delta = 14°22'01.2" LT.
T = 2.52'

Curve No. 2
P.I. STA. = 101+23.34
R = 300.00'
Dc = 19°05'54.94"
L = 80.11'
Delta = 15°18'00.2" LT.
T = 40.30'

Curve No. 1
P.I. STA. = 100+24.00
R = 20.00'
Dc = 286°28'44.03"
L = 27.08'
Delta = 77°34'47.6" RT.
T = 16.07'

0 10' 20' 40' 60'
(IN FEET)

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ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN
Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	02/02/22	ADJUSTED TUNNEL AND PATH FOR H PATH	CMC
2	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

PEDESTRIAN UNDERPASSES
(SHEET 1 OF 2)

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

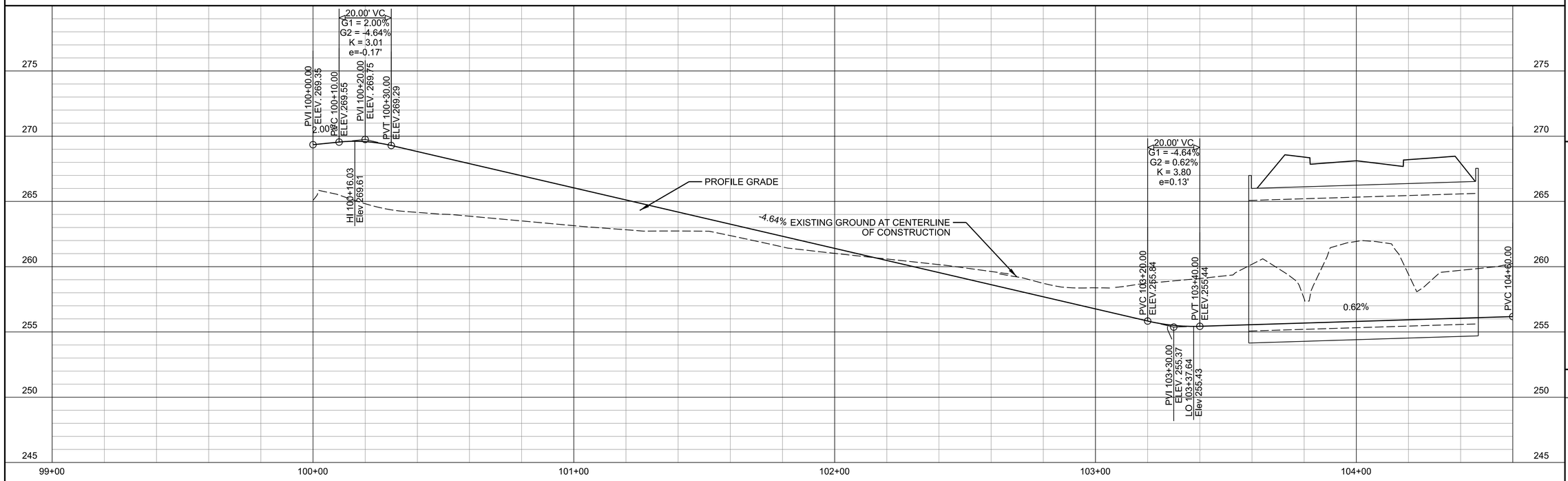
BAR IS ONE INCH ON ORIGINAL DRAWING
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-627

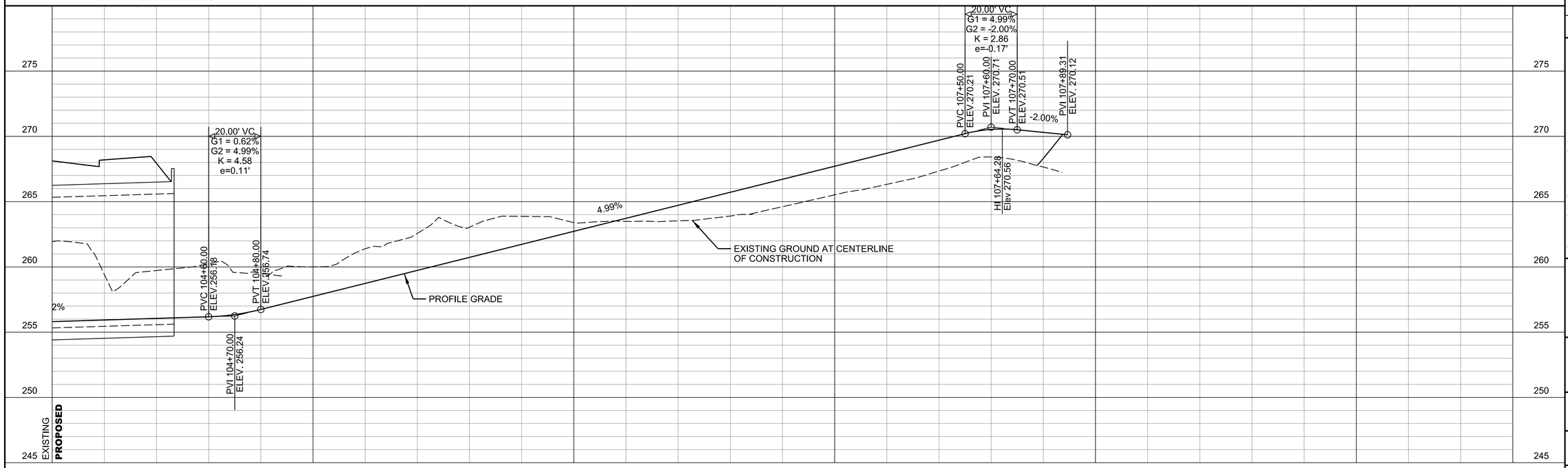
SHEET NUMBER 098

AMWeiner 6/8/2023 10:59:56 AM
\\WORKSPACE\Garver_2012 \\garverinc.local\gdata\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C627-PP-REV1-CO6.dgn

UNDERPASS ACCESS NORTH



UNDERPASS ACCESS SOUTH



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No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	02/02/22	ADDED TUNNEL AND ROADWAY INFORMATION	CMC
2	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

PEDESTRIAN UNDERPASSES
(SHEET 2 OF 2)

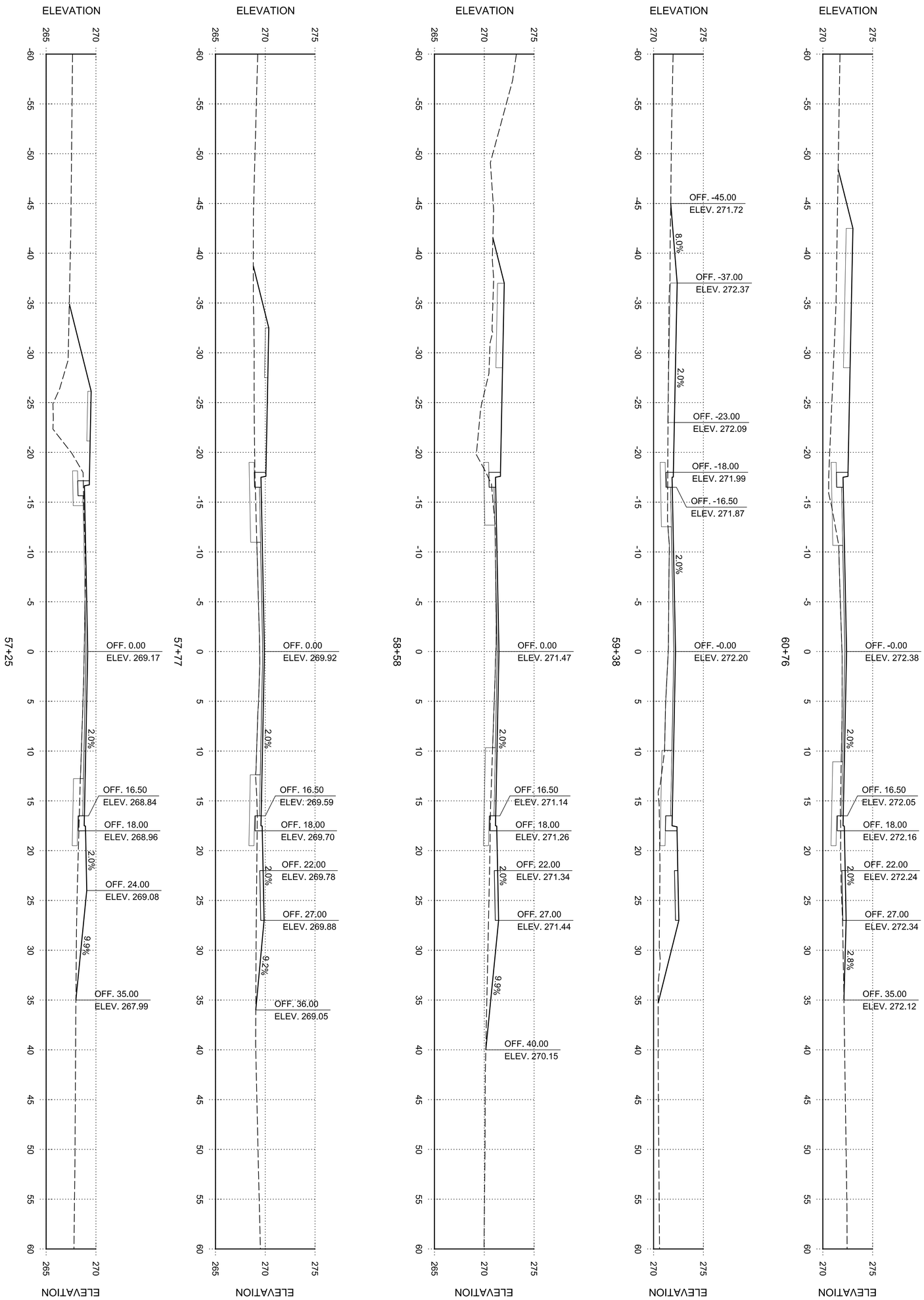
JOB NO.: 18017190
DATE: SEP. 2022
DESIGNED BY: CMC
DRAWN BY: AMW

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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DRAWING NUMBER
C-628

SHEET NUMBER **099**

AMWeiner 6/8/2023 10:59:57 AM
\WORKSPACE\Garver 2012
\\garverinc.local\gdata\Projects\2018\18017190 - Sherwood - Jacksonville Cato\Drawings_Phase 1\SJC-C628-PP-CO6.dgn



JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: TBP

BAR IS ONE INCH ON ORIGINAL DRAWING 1"
IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY

SHEET NUMBER **100**

DRAWING NUMBER **C-701**

DRIVEWAY PROFILES

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

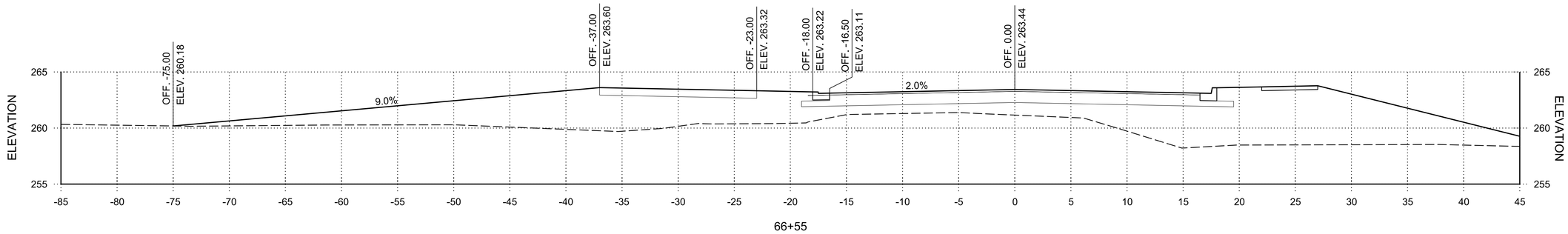
Digitally Signed 06/08/2023

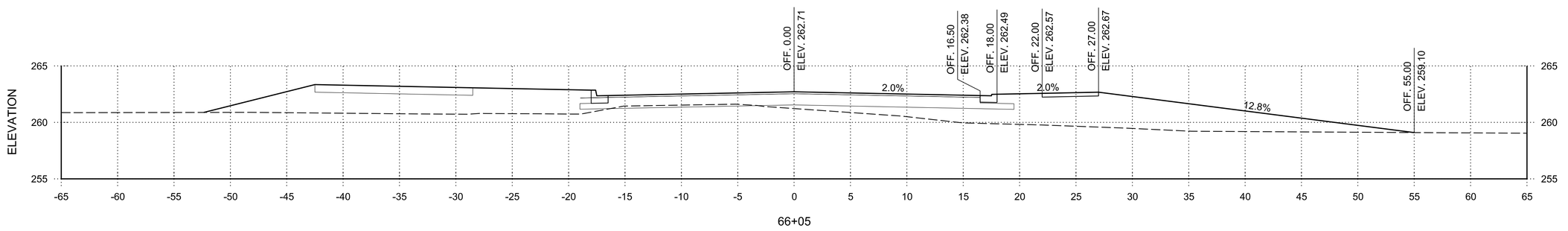
STATE OF ARKANSAS
LICENSED
PROFESSIONAL
ENGINEER
CHARLES M. CULLEN
No. 16145

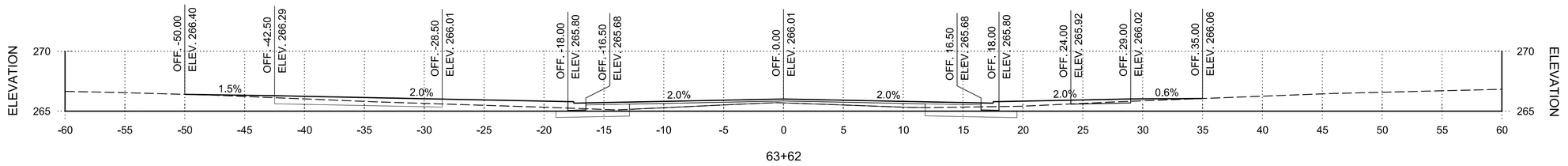
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No. 766

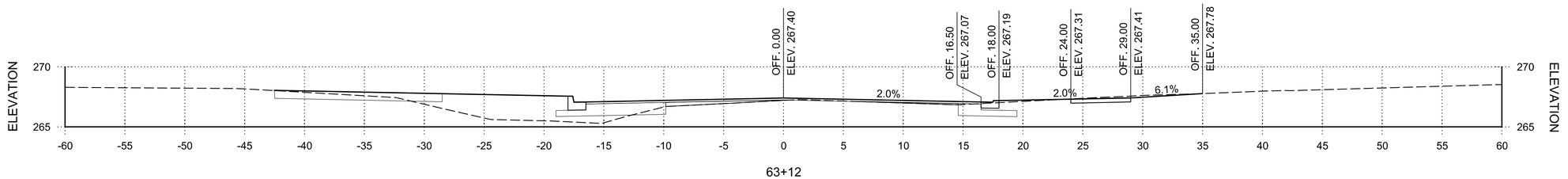
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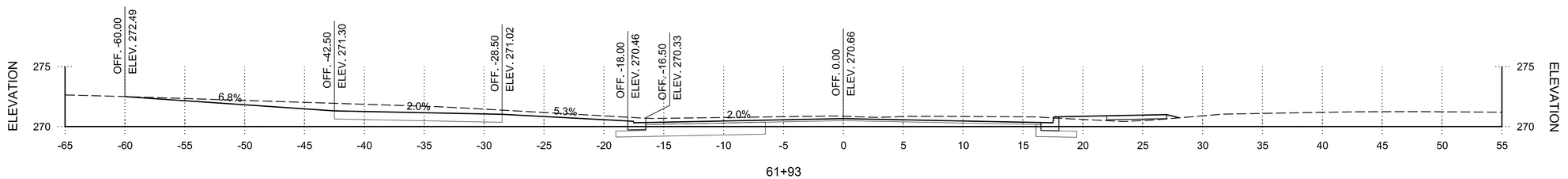
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CERTIFICATE OF AUTHORIZATION
GARVER LLC No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 06/08/2023

REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

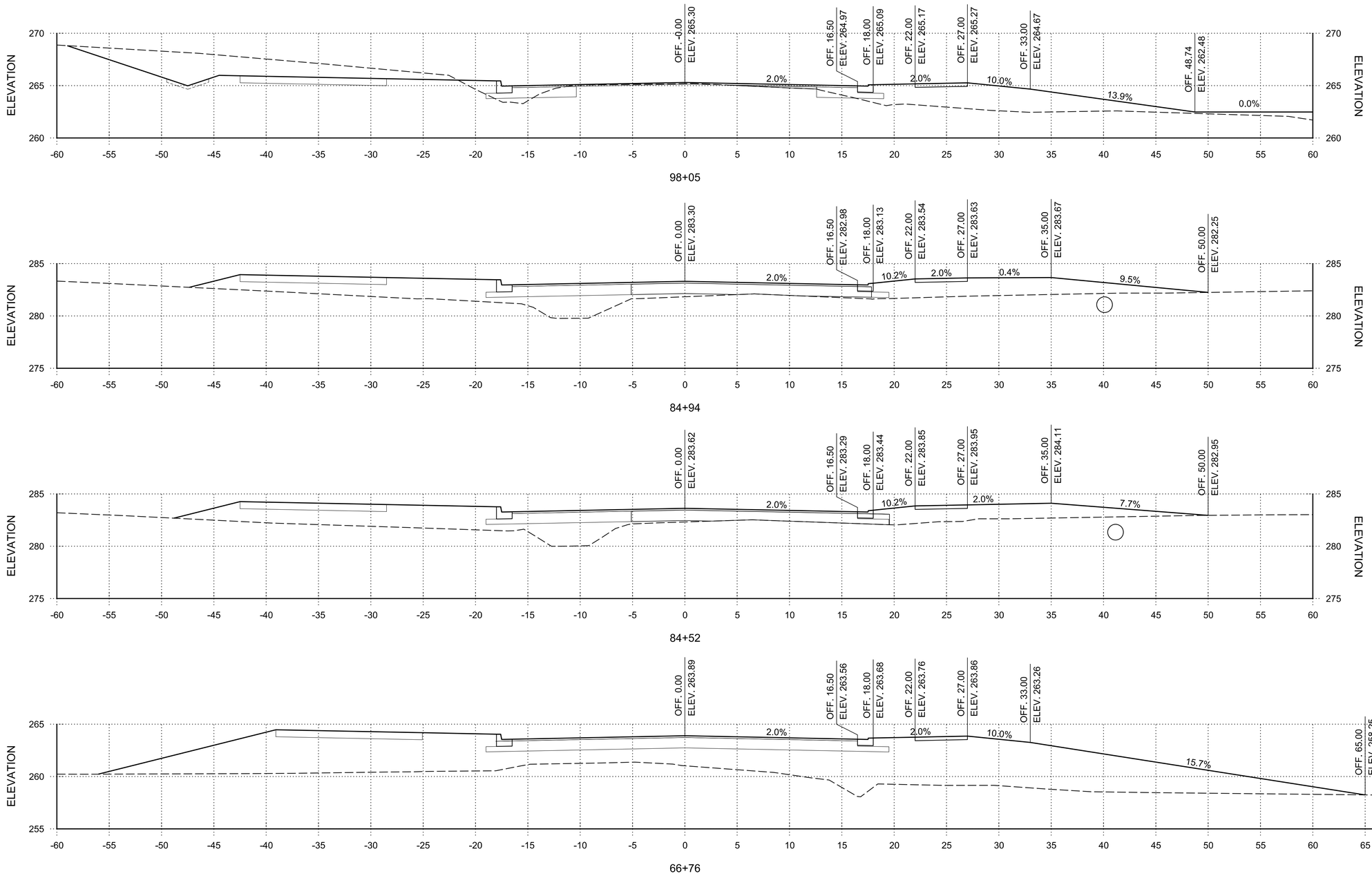
DRIVEWAY PROFILES

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: TBP

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SHEET NUMBER **101**



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GARVER LLC
No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

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REV.	DATE	DESCRIPTION	BY
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

DRIVEWAY PROFILES

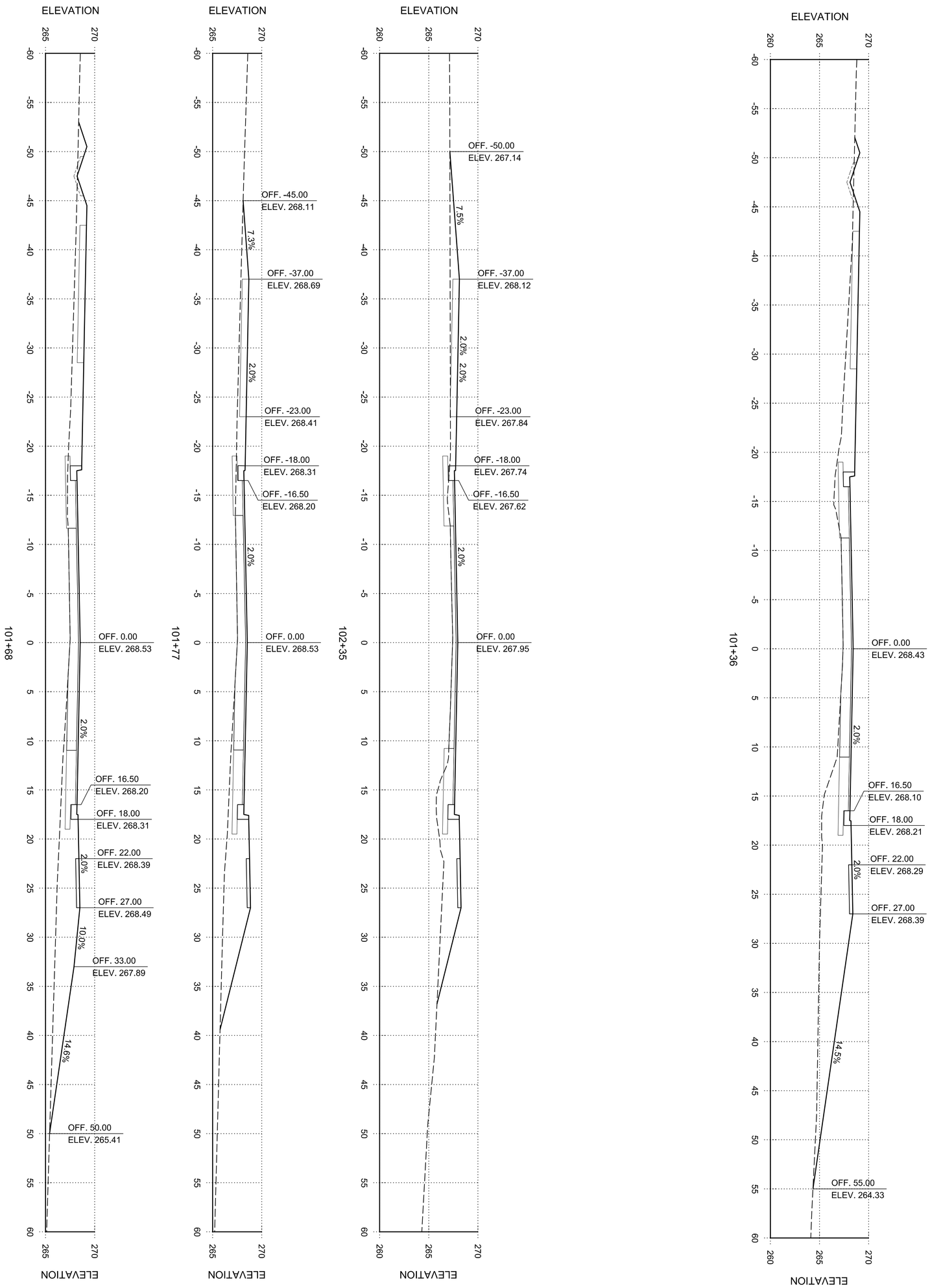
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DRAWING NUMBER
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DRIVEWAY PROFILES

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

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1	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

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STATE OF ARKANSAS
CHARLES M. CULLEN
LICENSED PROFESSIONAL ENGINEER
No. 16145

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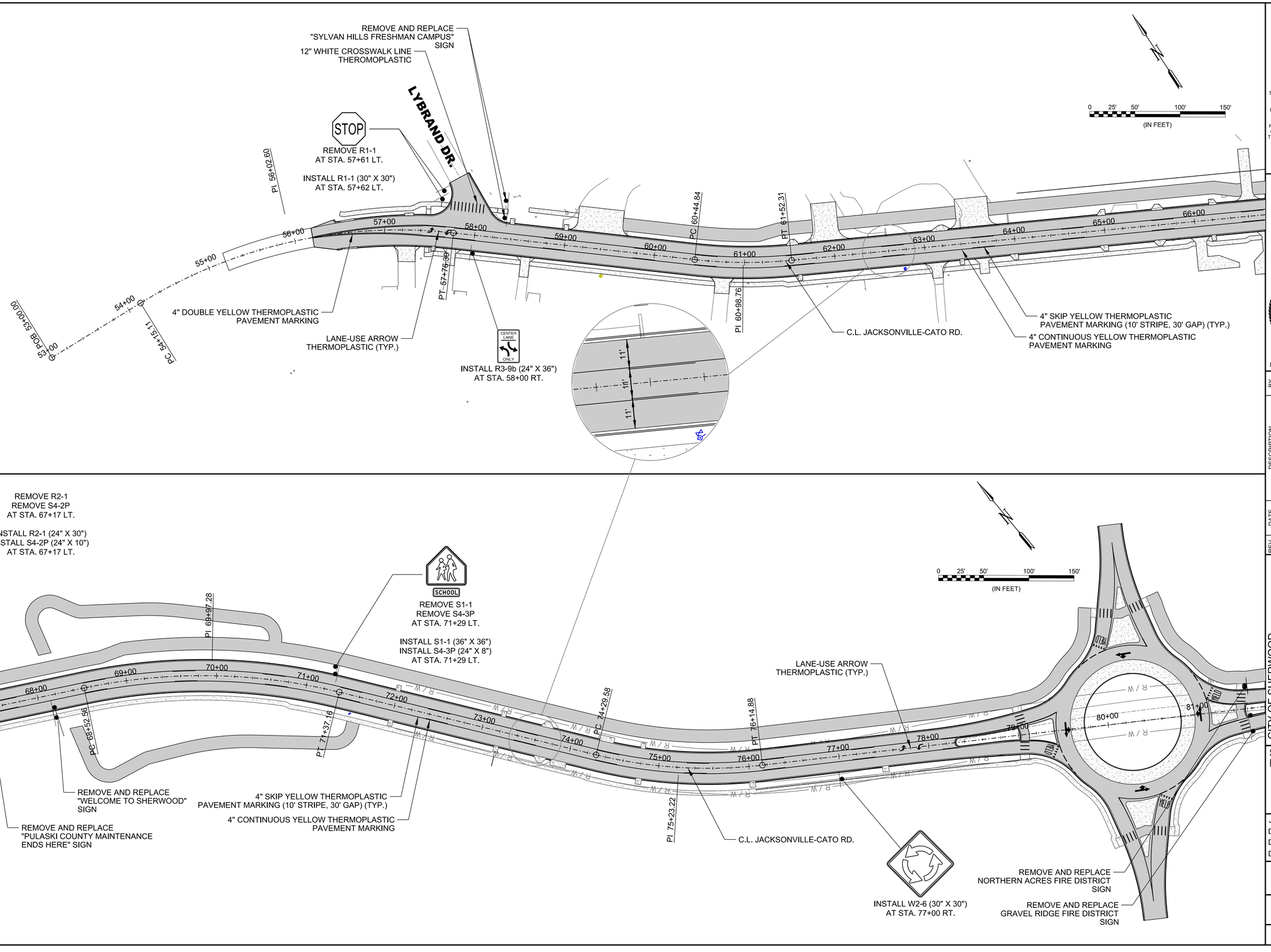
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ARKANSAS ENGINEER

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LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

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REV.	DATE	DESCRIPTION	BY
1	9/29/2022	ADJUSTED PLAN FOR ROUNDABOUT LEG ADDITION	CMC
2	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD STREET AND DRAINAGE IMPROVEMENTS - PHASE I

SIGNING AND STRIPING PLAN

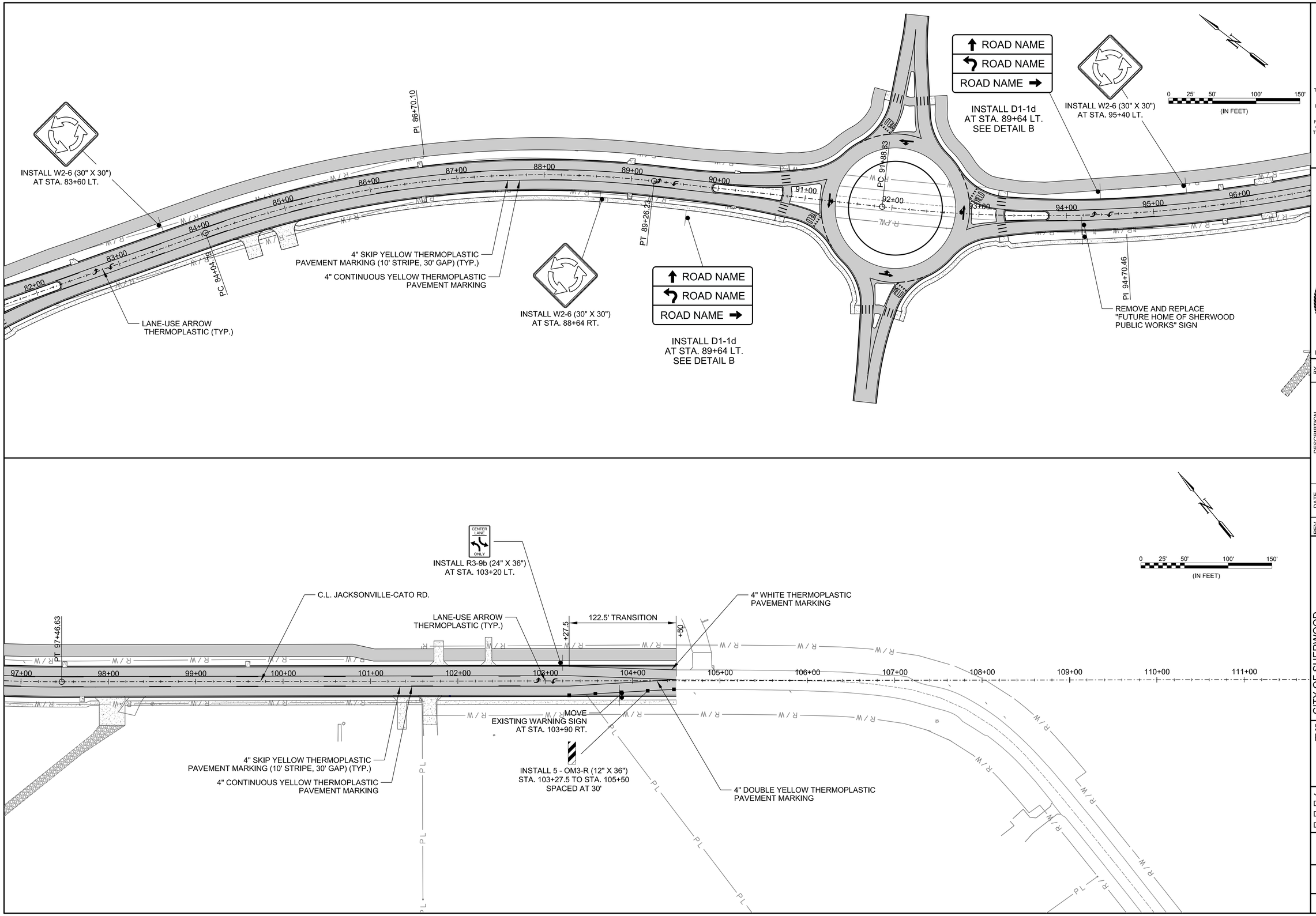
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DRAWING NUMBER
C-801

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ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET - TYPICAL SECTION UPDATE	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

SIGNING AND STRIPING PLAN

JOB NO.: 18017190
DATE: JUNE 2023
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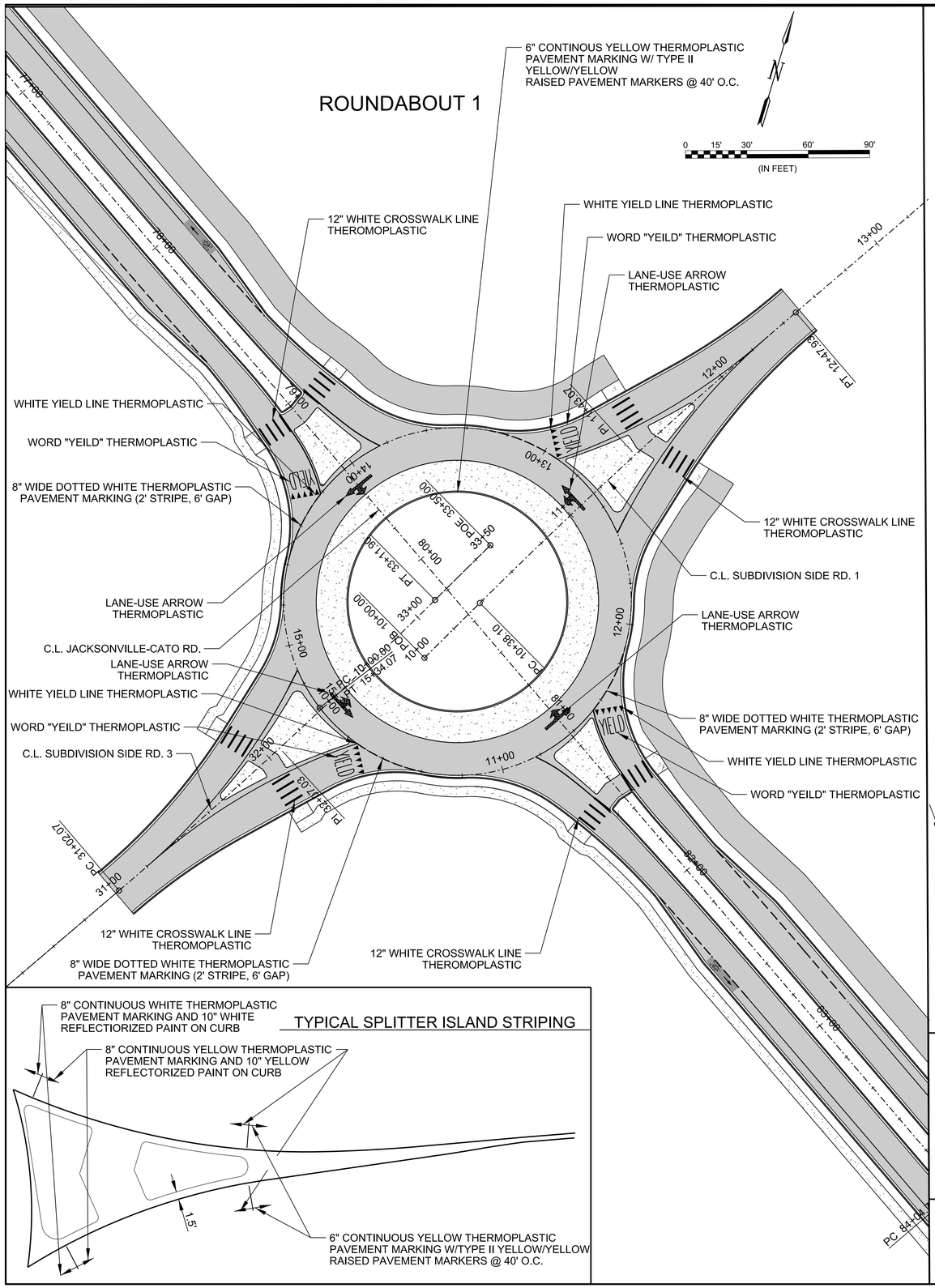
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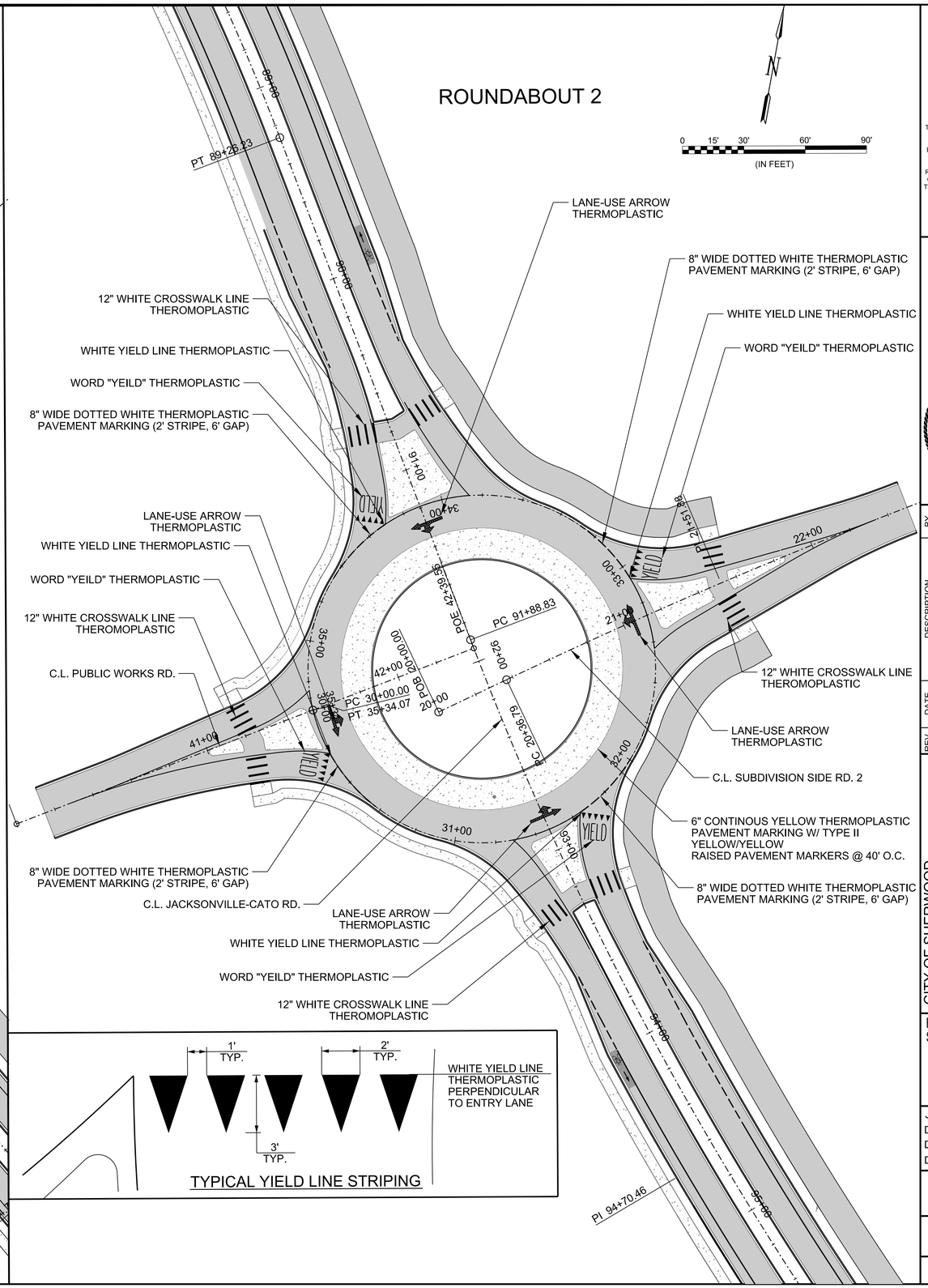
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ROUNDABOUT 1



TYPICAL SPLITTER ISLAND STRIPING

ROUNDABOUT 2



TYPICAL YIELD LINE STRIPING

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REV.	DATE	DESCRIPTION	BY
1	9/29/2022	ADJUSTED PLAN FOR ROUNDABOUT LEG ADDITION	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

ROUNDABOUT
STRIPING PLAN

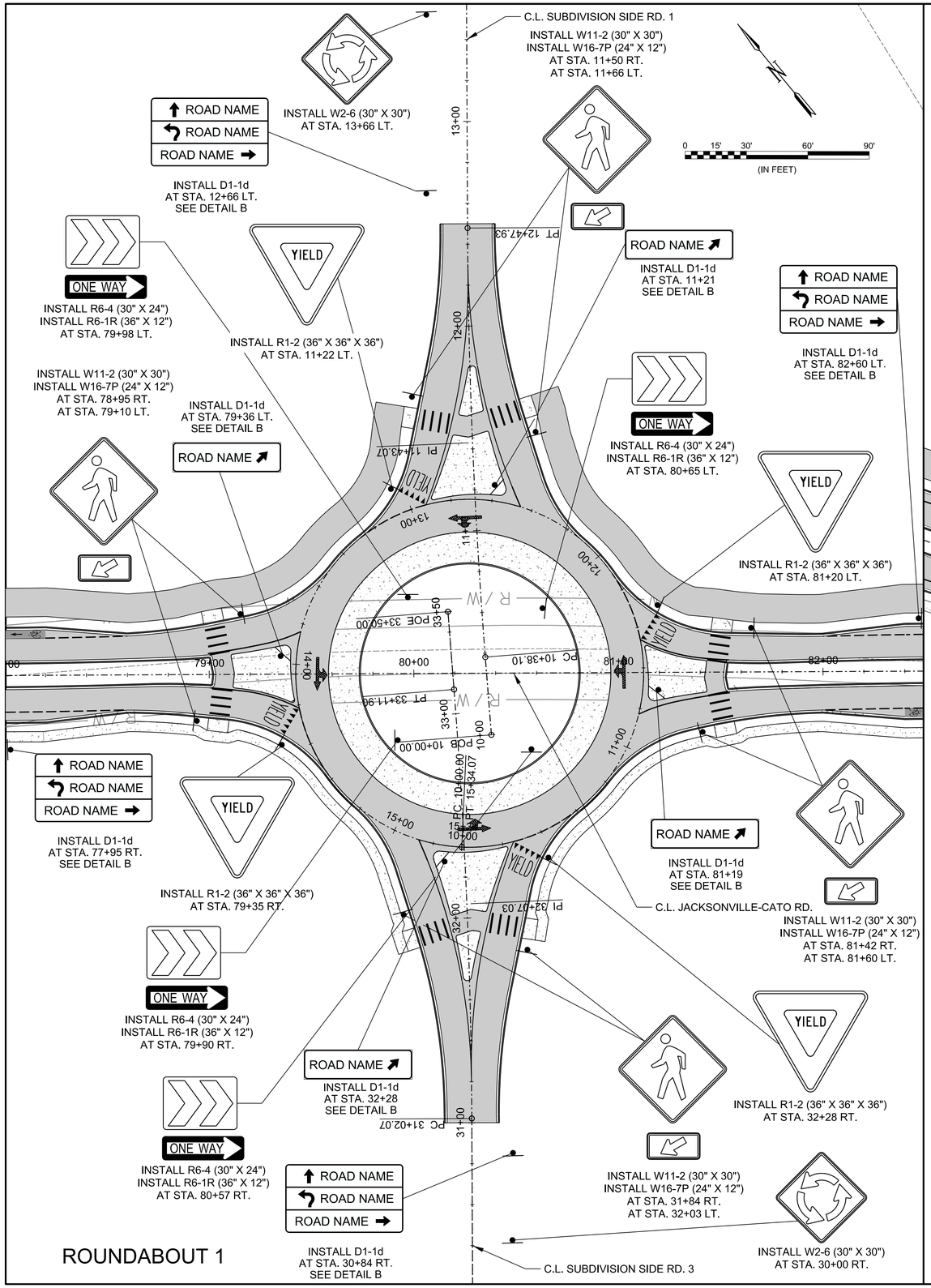
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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN
Digitally Signed 12/08/2022

REV.	DATE	DESCRIPTION	BY
1	9/29/2022	ADJUSTED PLAN FOR ROUNDABOUT LEG ADDITION	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

ROUNDABOUT SIGNING PLAN

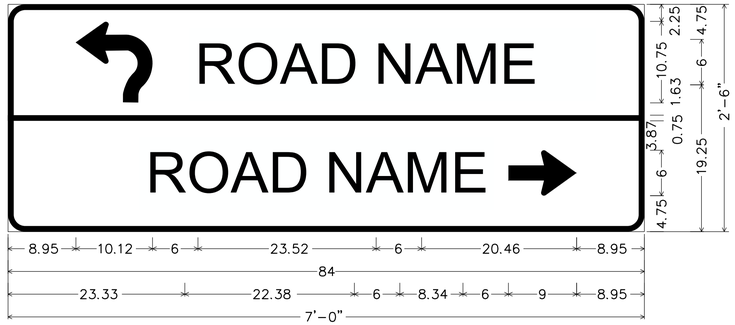
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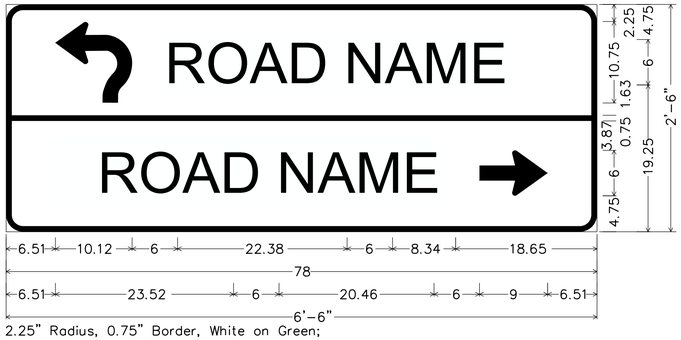
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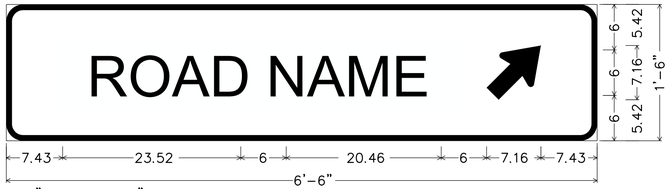
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DETAIL A



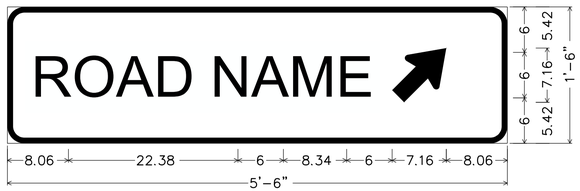
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DETAIL C



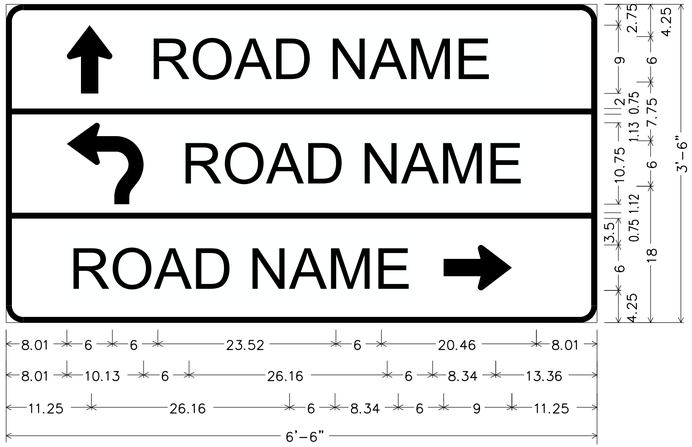
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DETAIL D



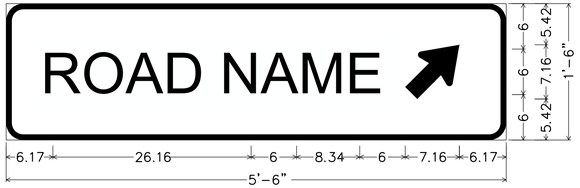
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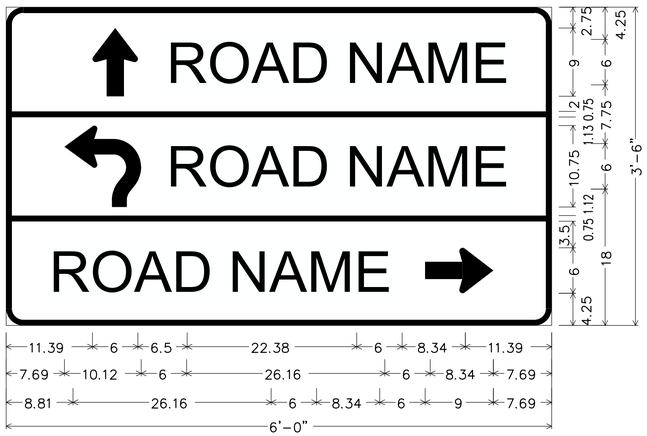
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[Hilldale Rd] D 2K; Standard Arrow Custom 9.00" X 6.00" 0°;

DETAIL B



2.25" Radius, 0.75" Border, White on Green;
[Hilldale Rd] D 2K; Standard Arrow Custom 9.00" X 6.13" 45°;

DETAIL F



2.25" Radius, 0.75" Border, White on Green;
[Bryant Pkwy] D 2K; Standard Arrow Custom 9.00" X 6.00" 90°;
[Hilldale Rd] D 2K; Roundabout Arrow Custom
[Hilldale Rd] D 2K; Standard Arrow Custom 9.00" X 6.00" 0°;

DETAIL G

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CERTIFICATE OF AUTHORIZATION
GARVER LLC No. 766
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.16145
CHARLES M. CULLEN

Digitally Signed 10/12/2021

REV.	DATE	DESCRIPTION	BY

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

SIGNING AND STRIPING PLAN

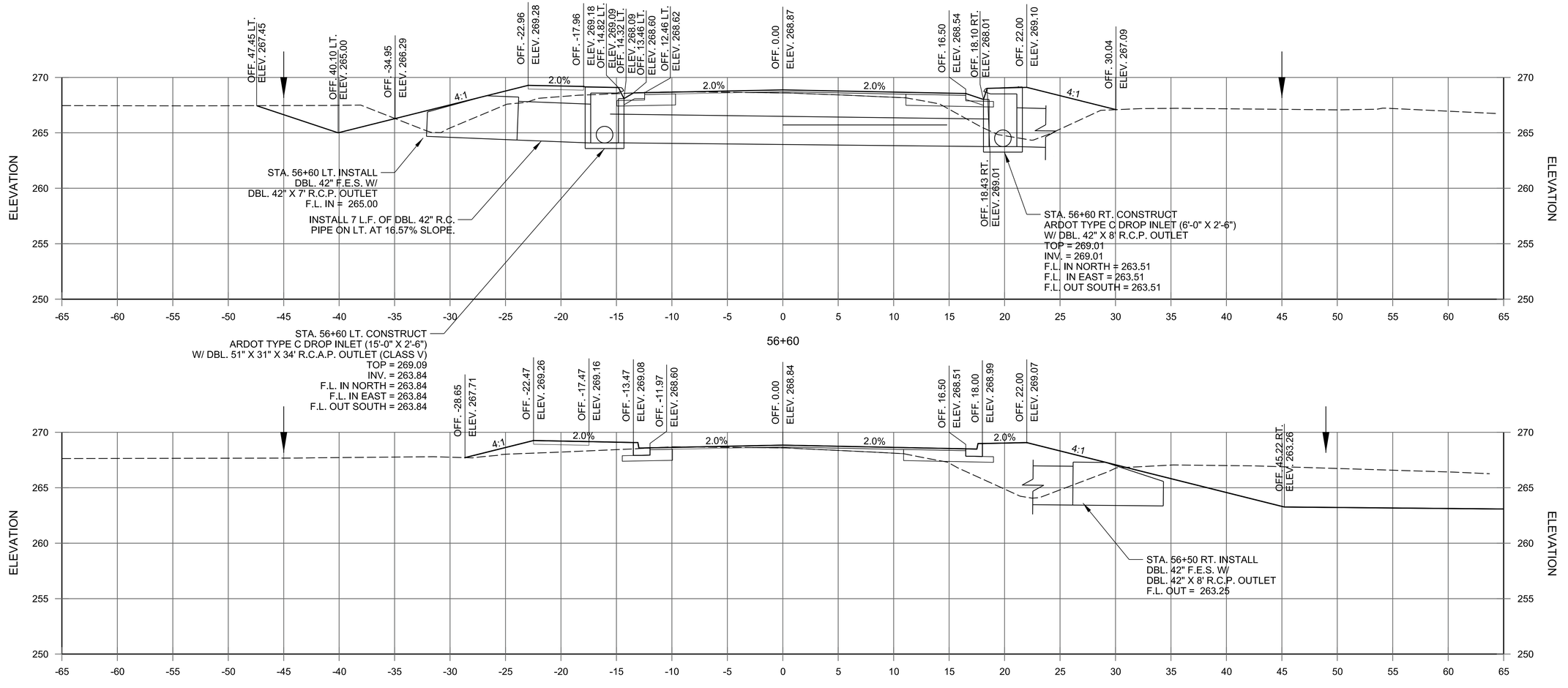
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DESIGNED BY: CMC
DRAWN BY: AMW

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JACKSONVILLE-CATO RD.
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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

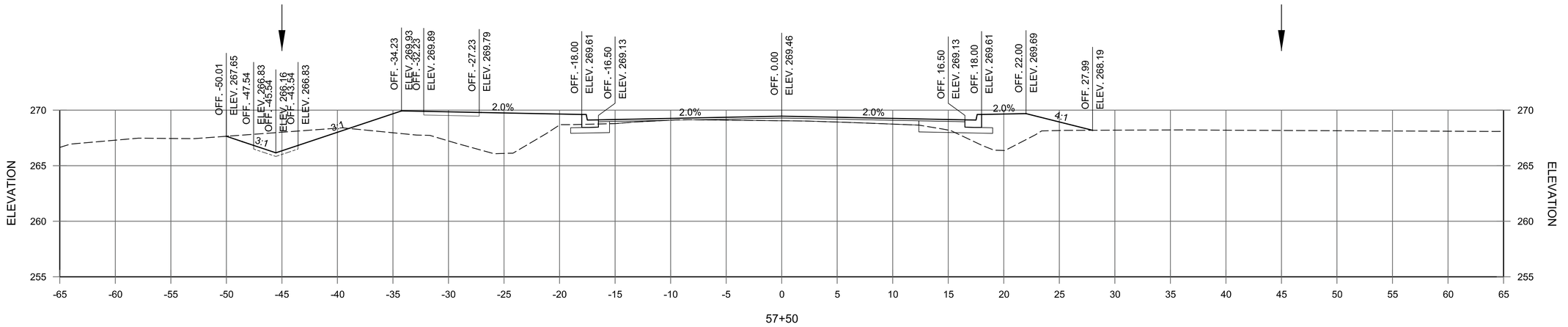
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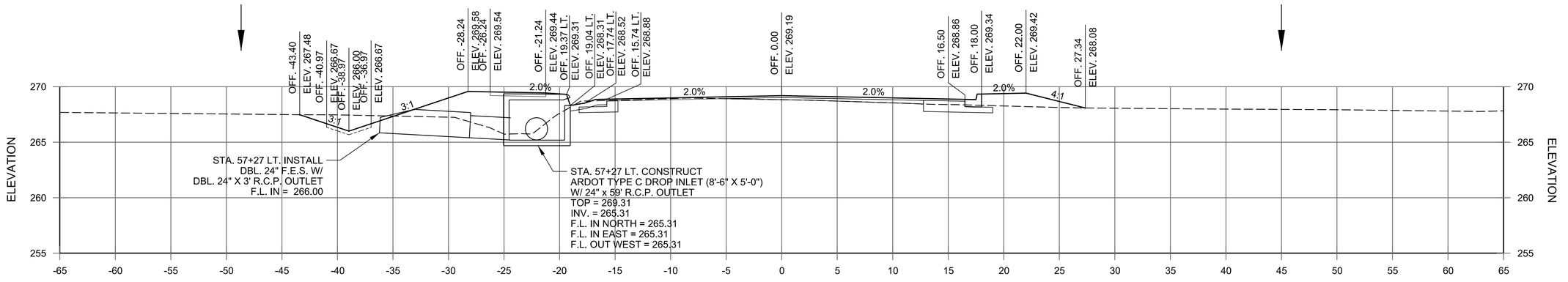
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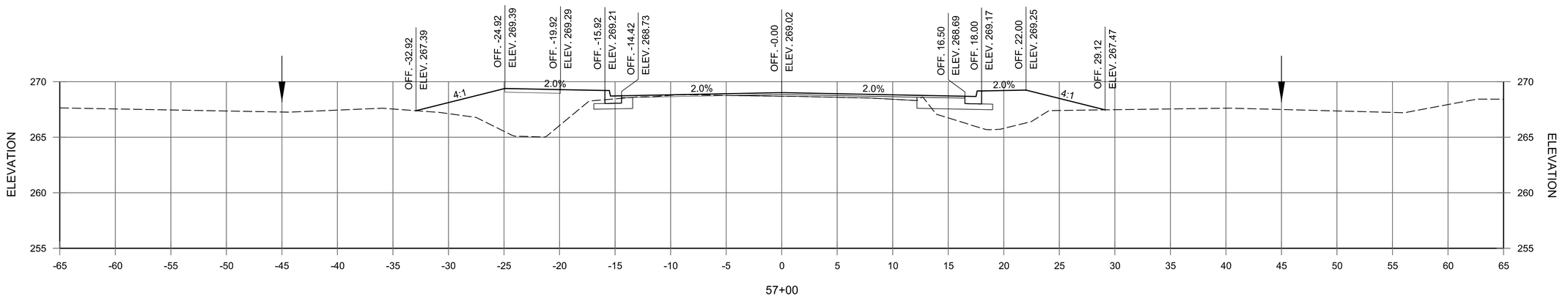
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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

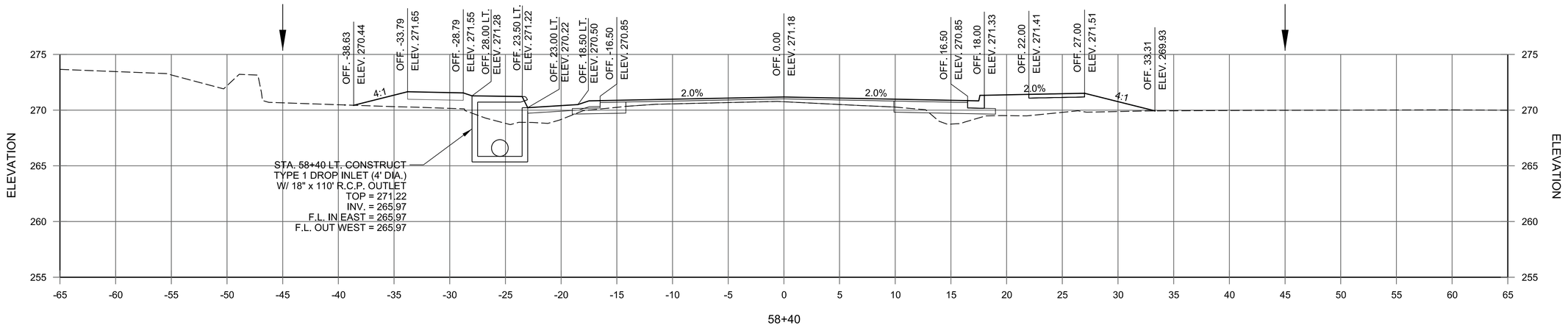
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

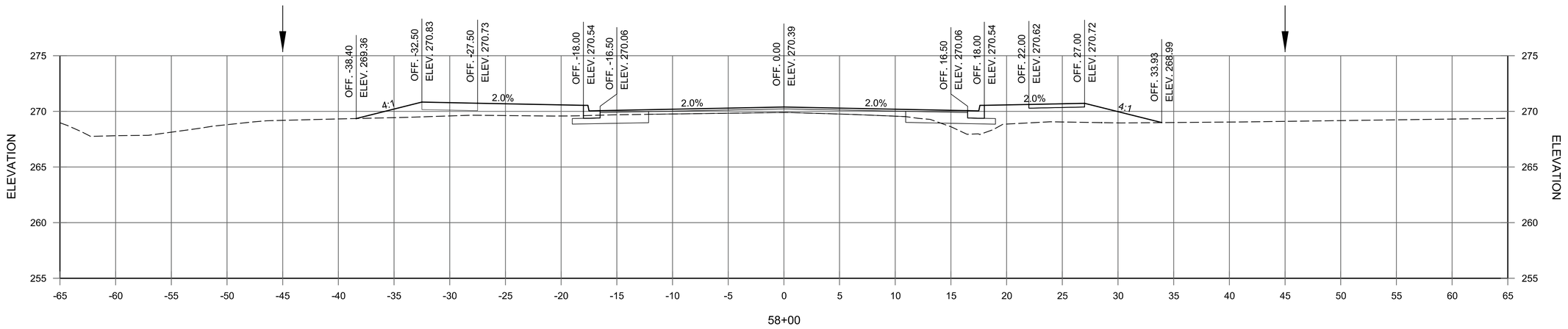
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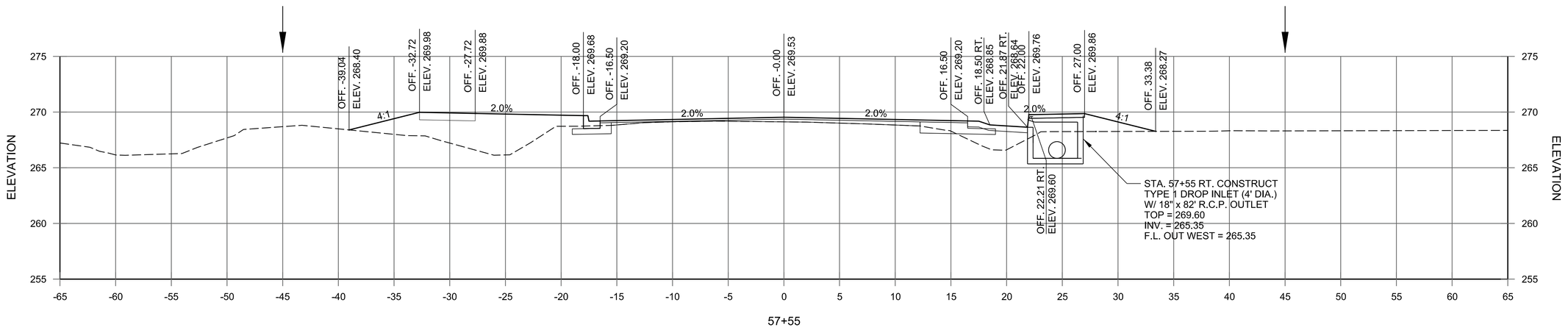
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

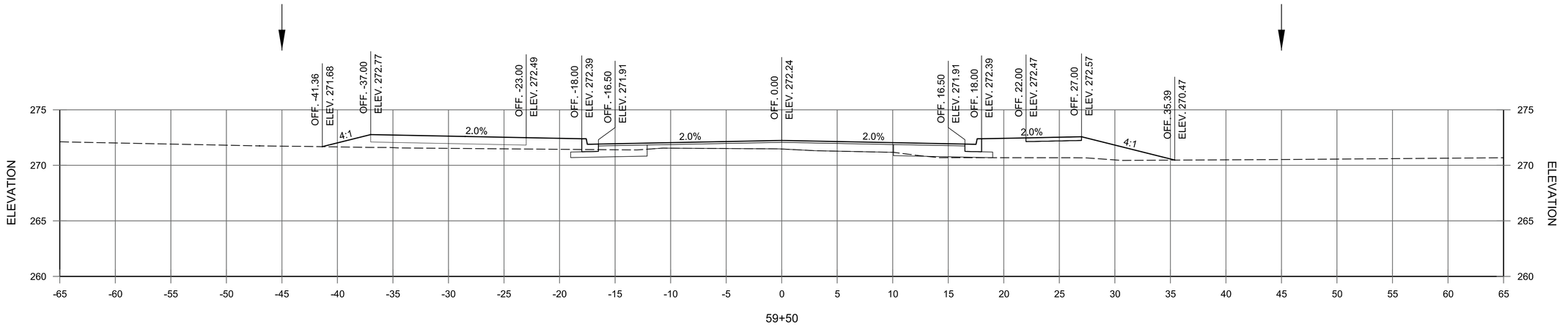
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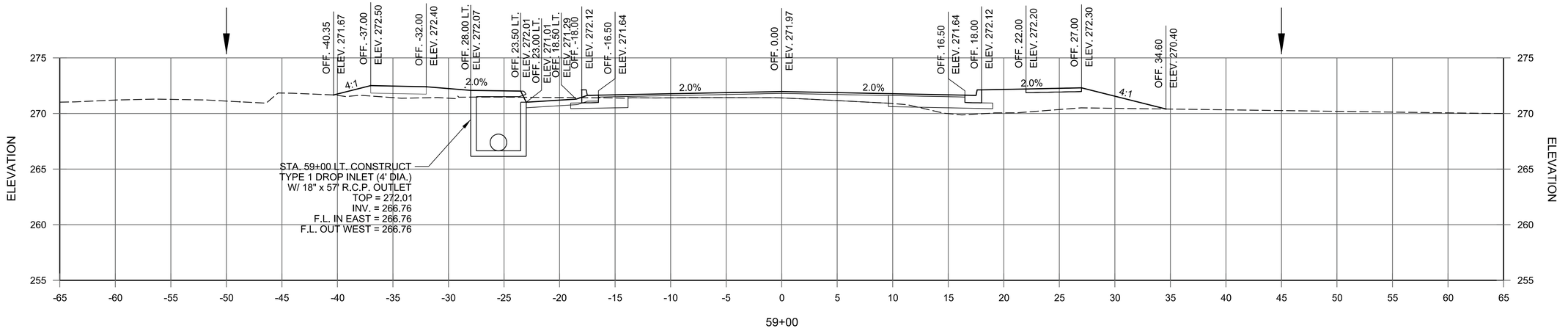
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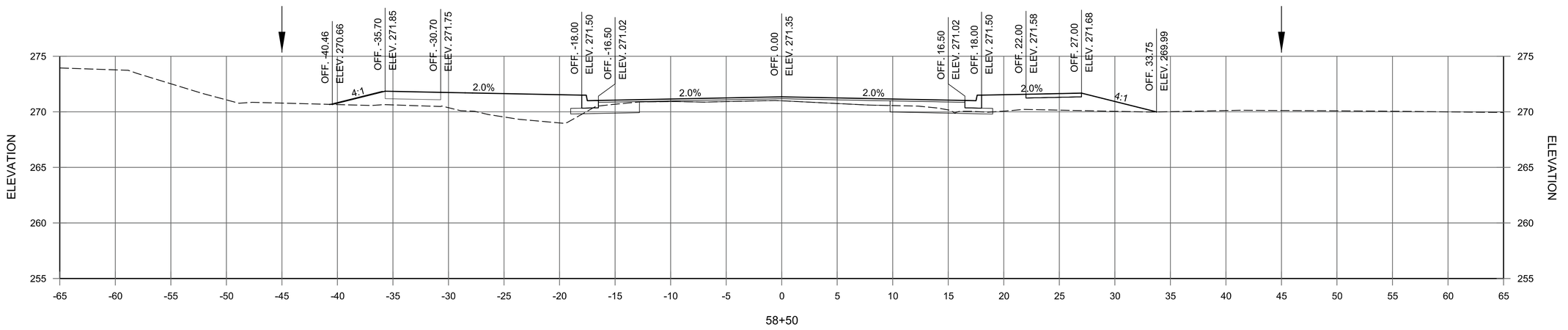
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PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

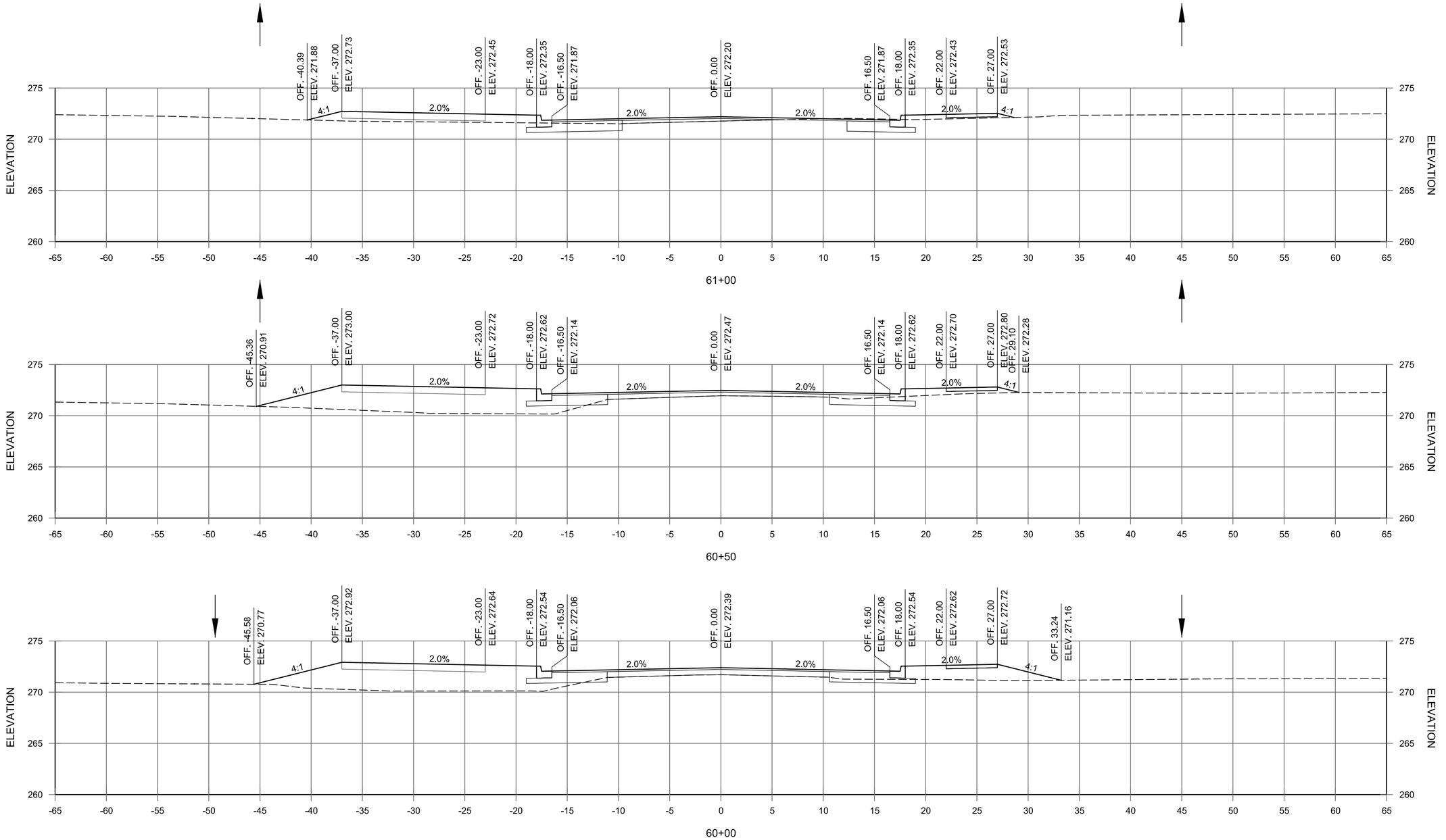
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DATE: JUNE 2023
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DRAWING NUMBER
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CITY OF SHERWOOD
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JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

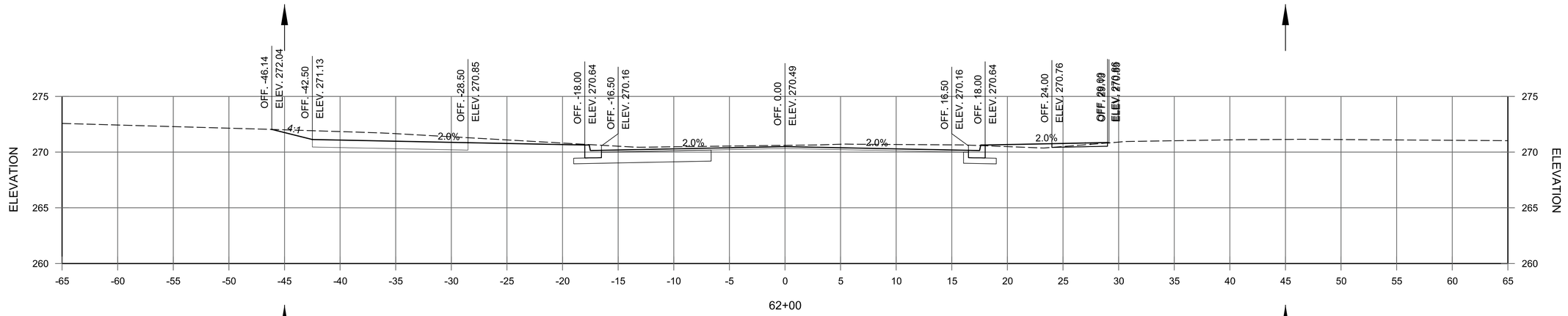
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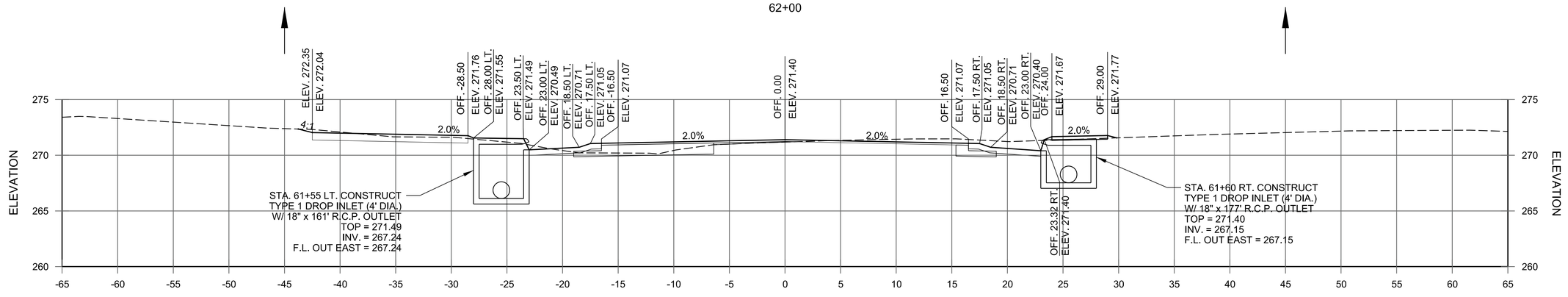
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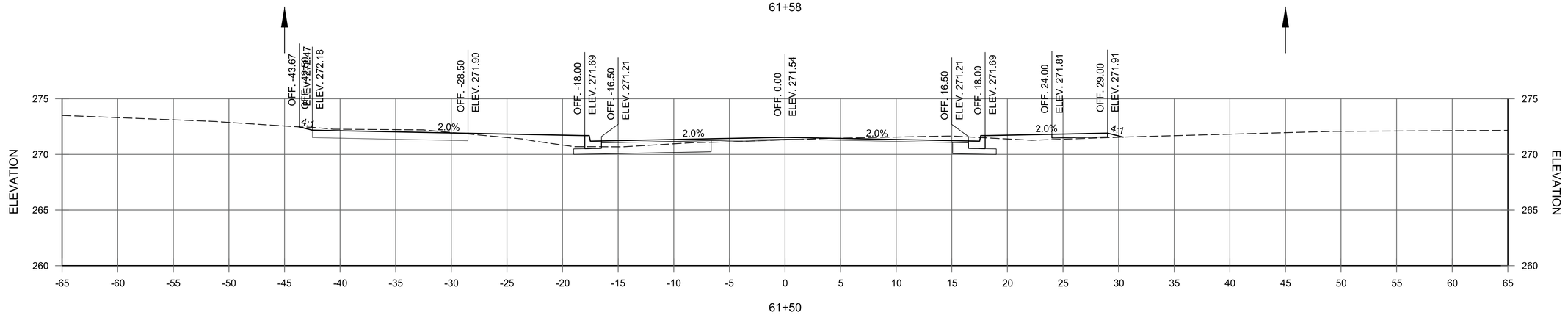
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PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

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JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
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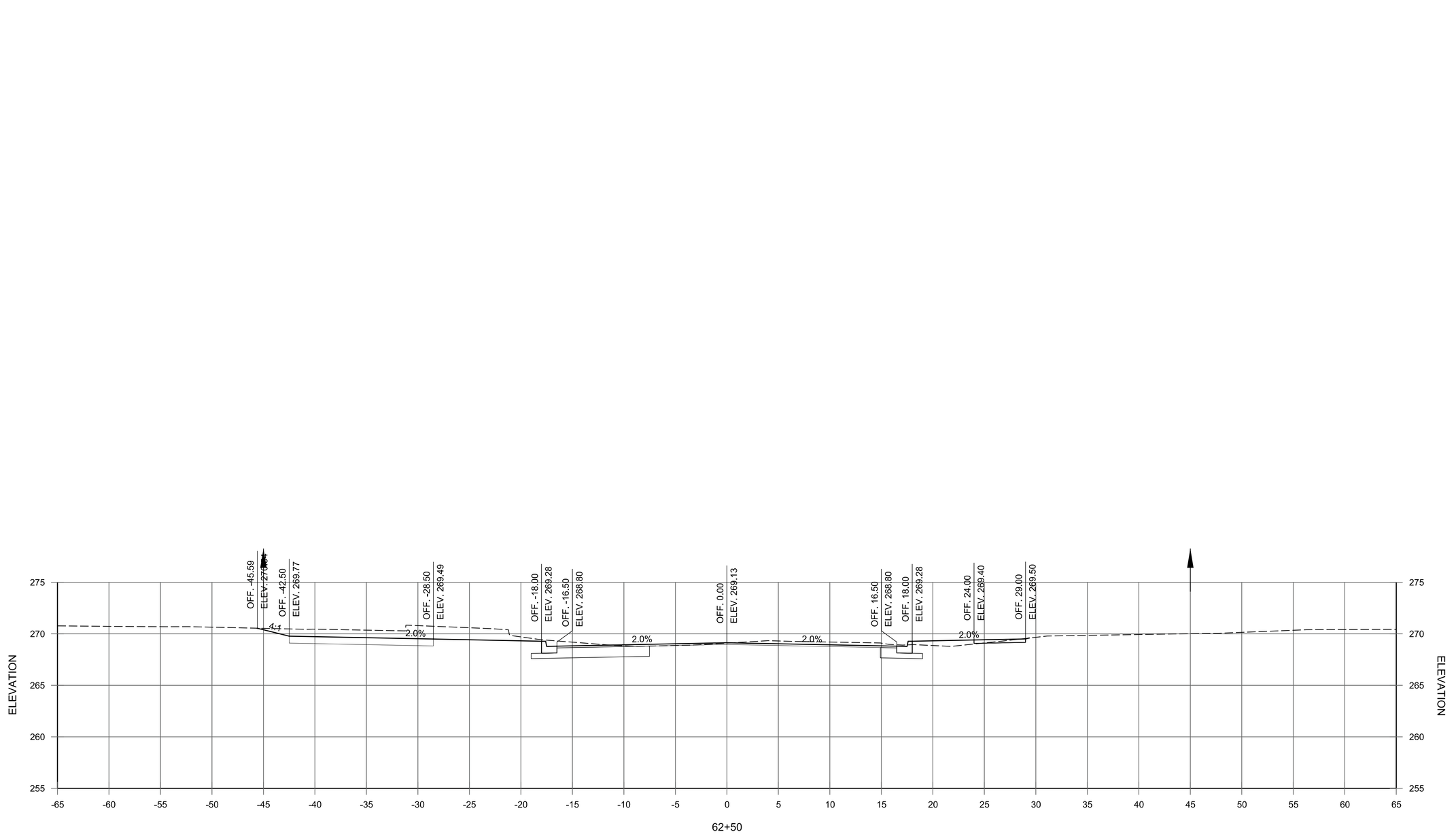
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

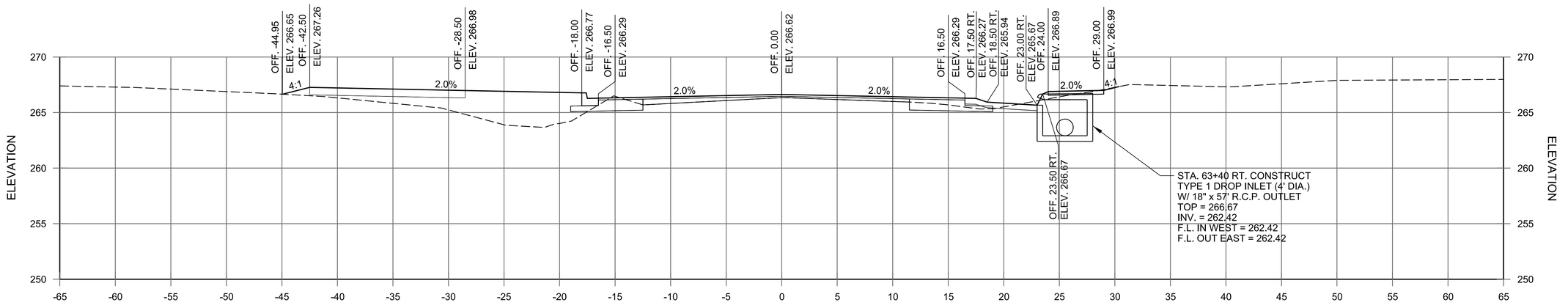
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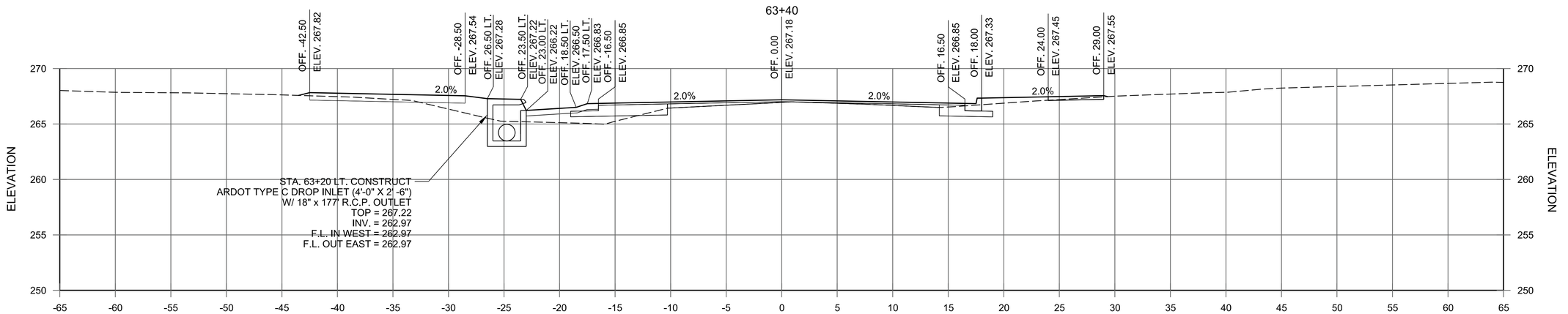
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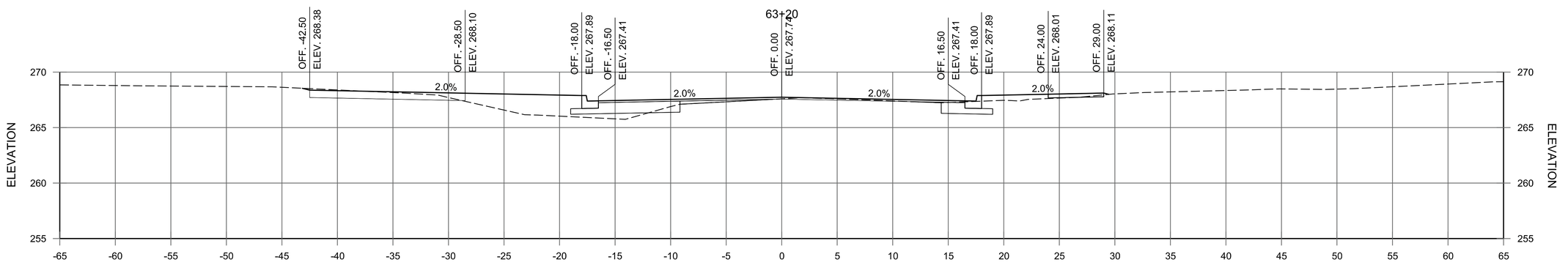
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63+40



63+20



63+00

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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

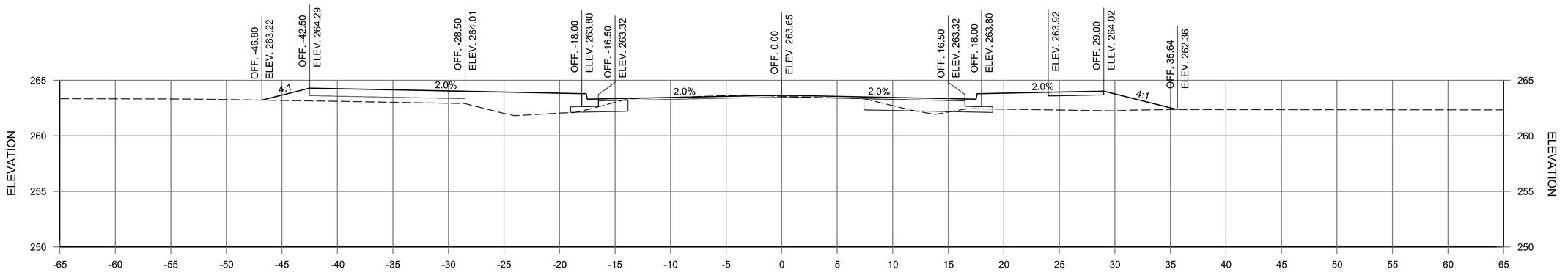
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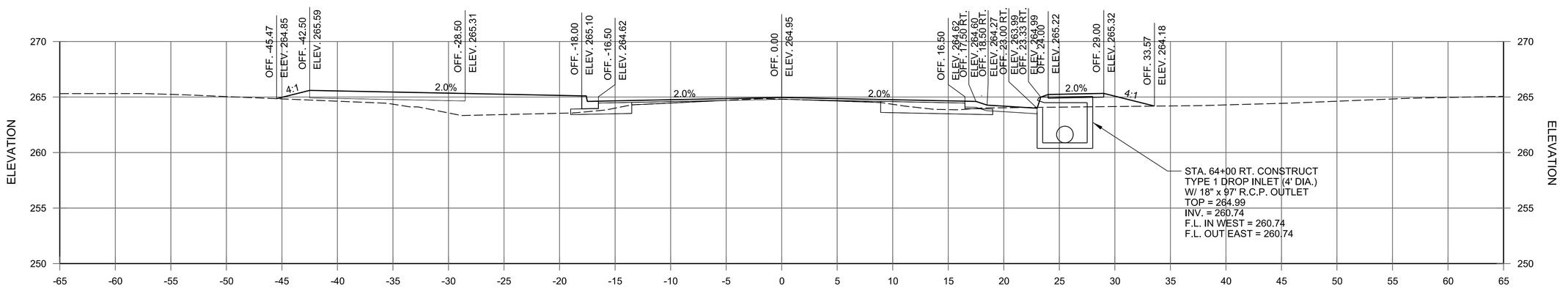
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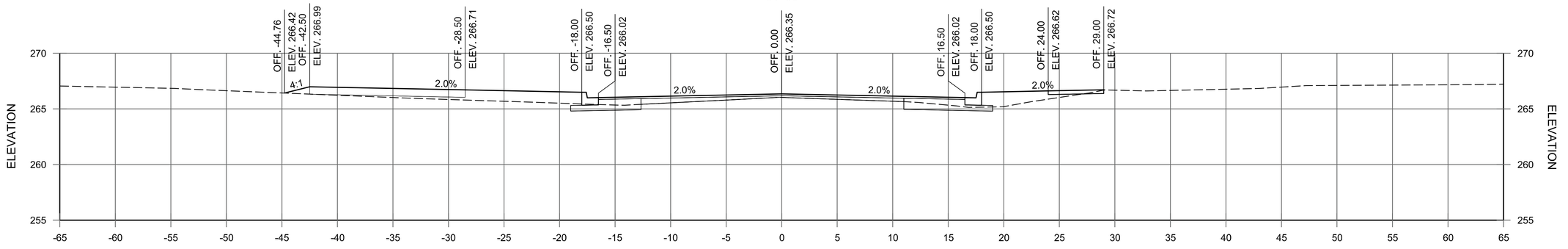
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64+00



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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

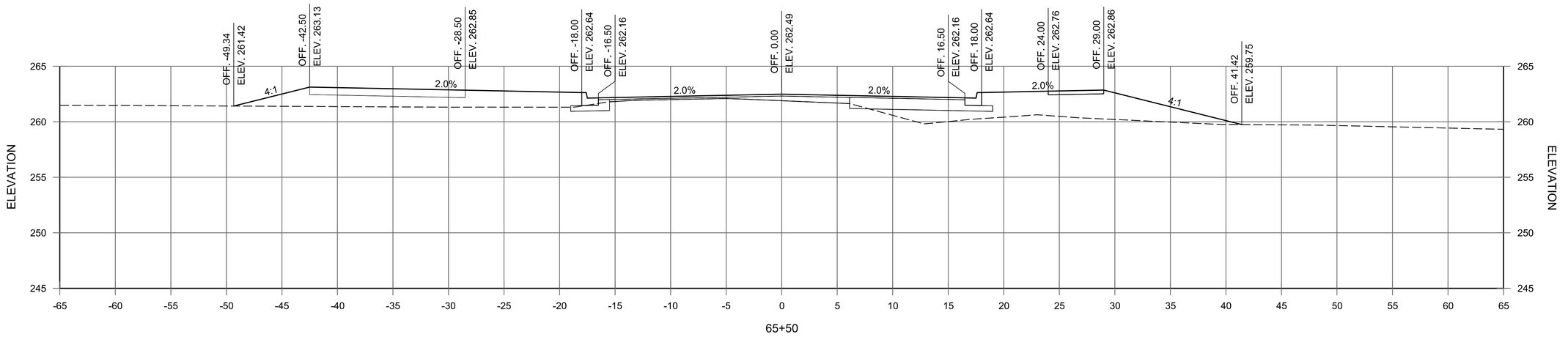
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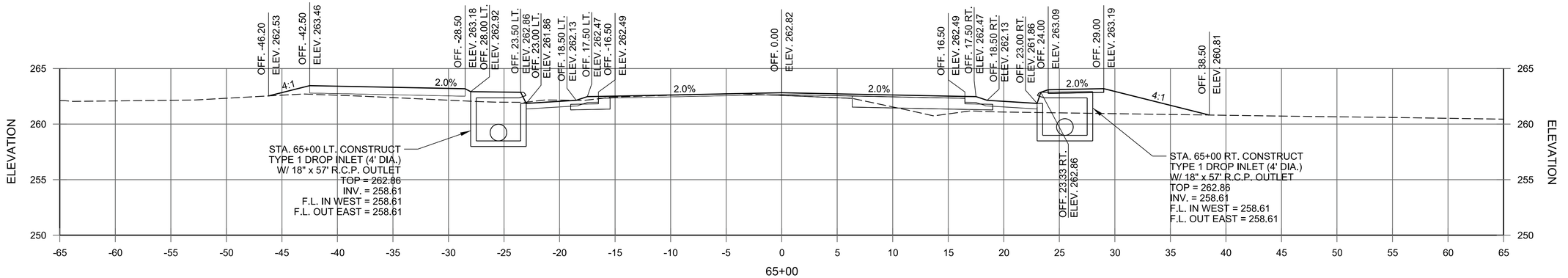
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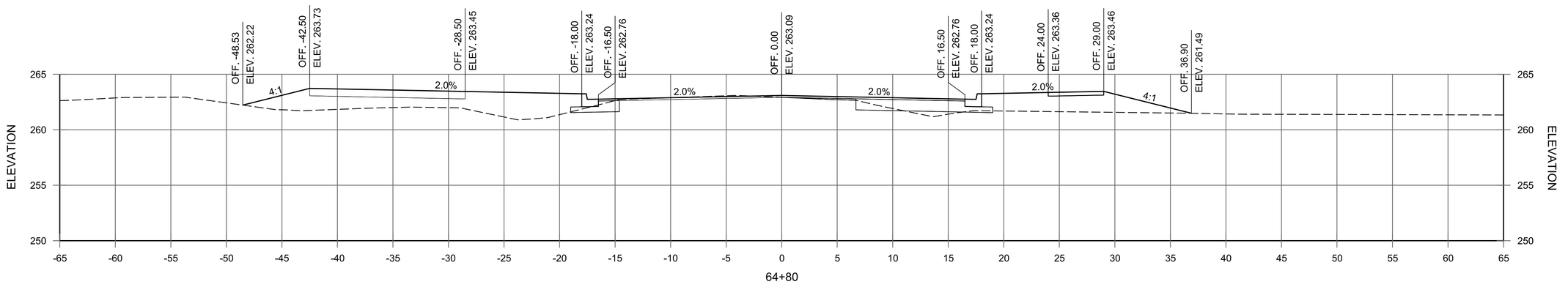
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PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

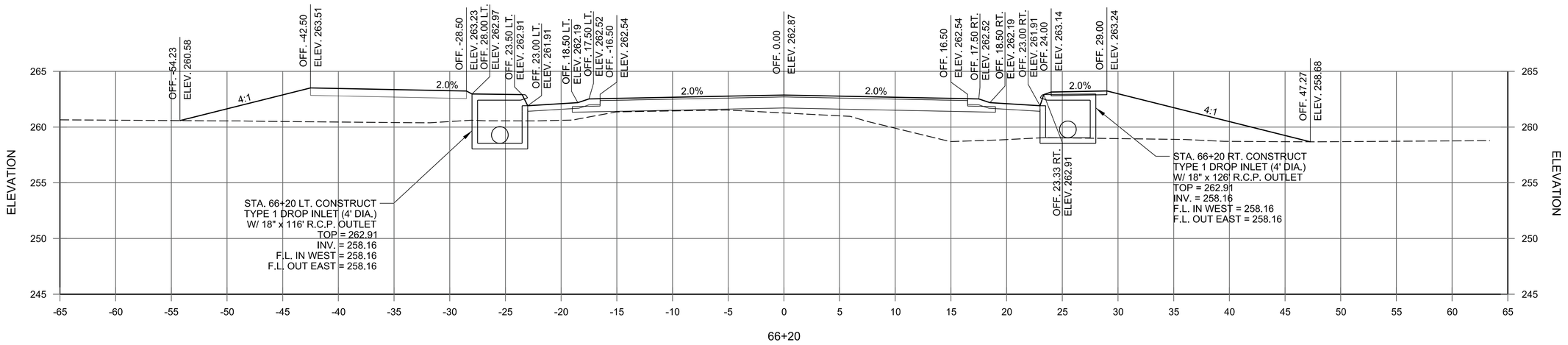
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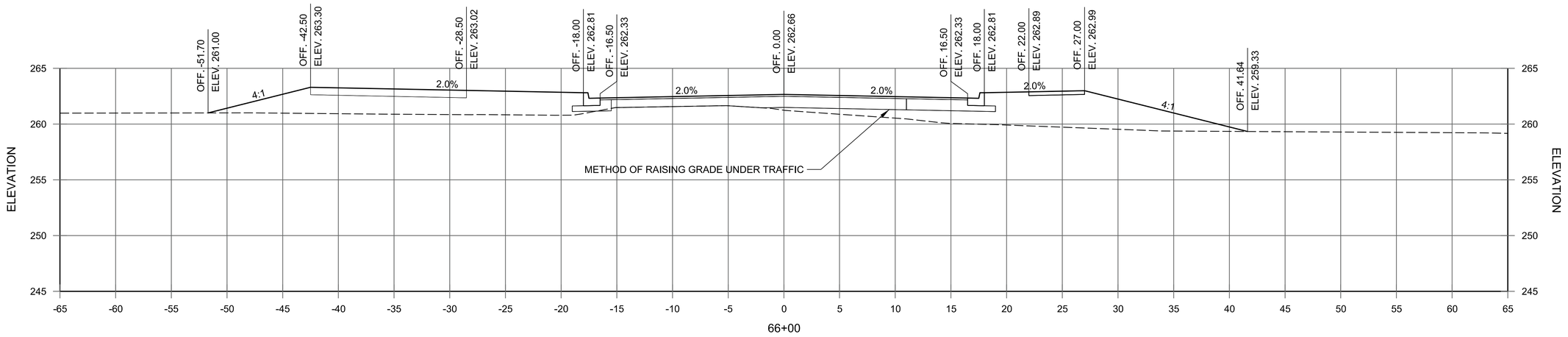
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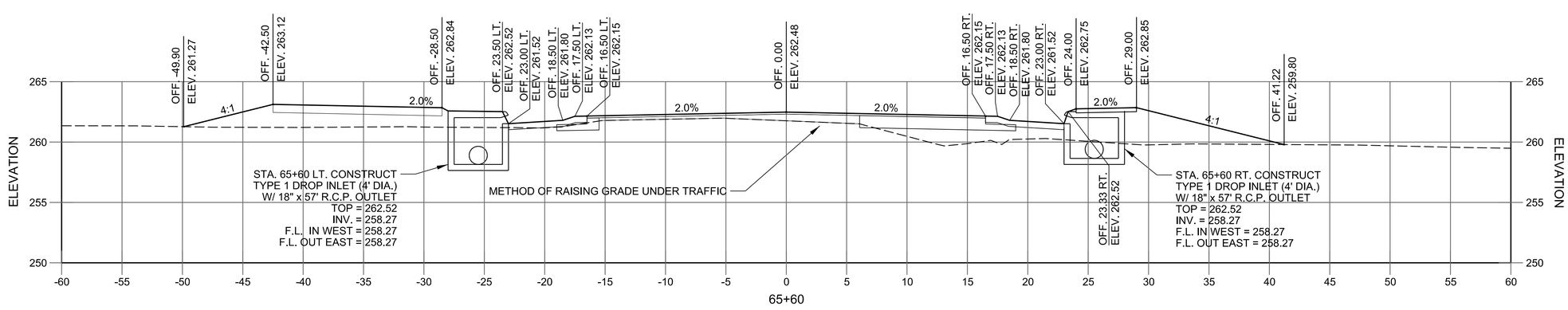
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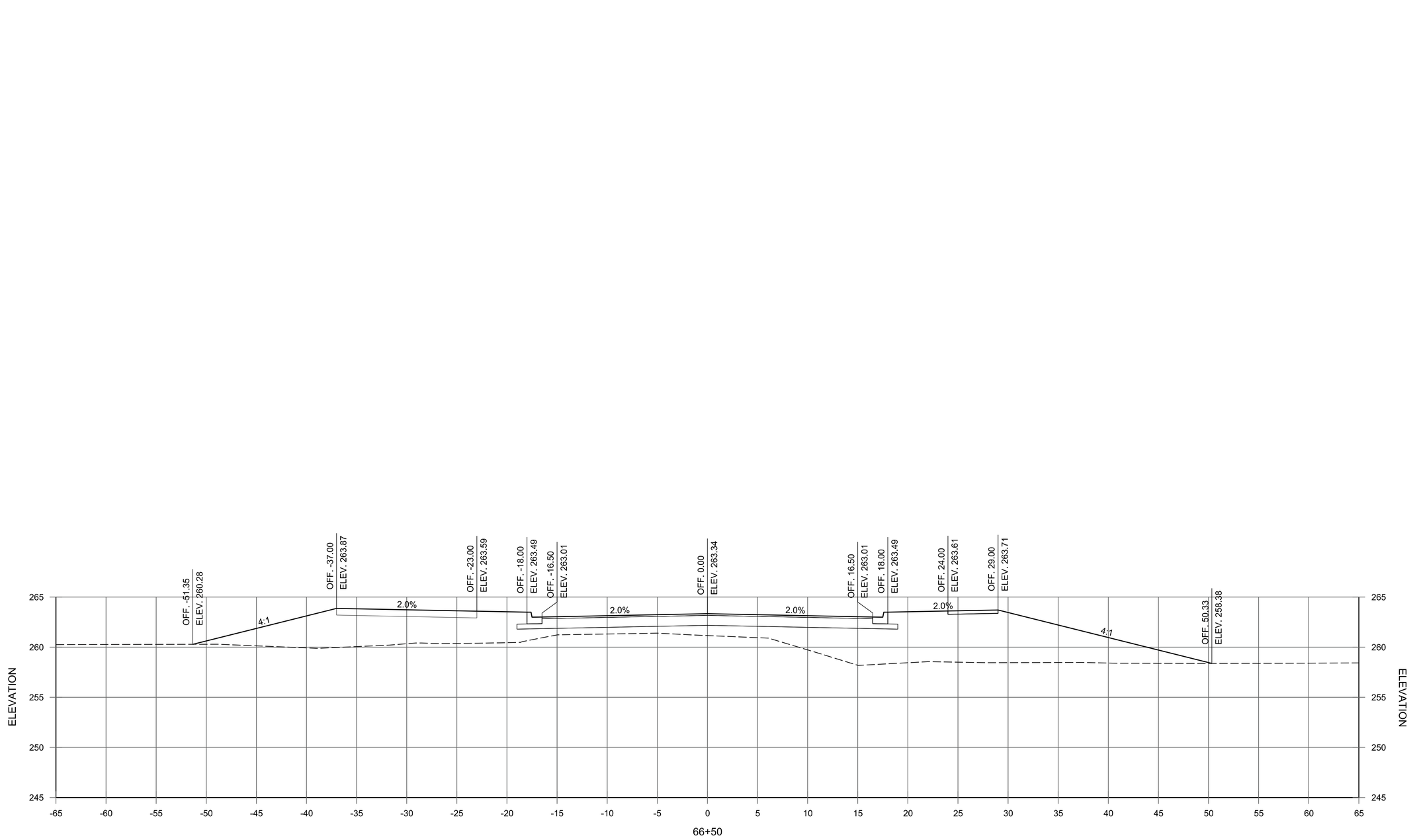
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PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

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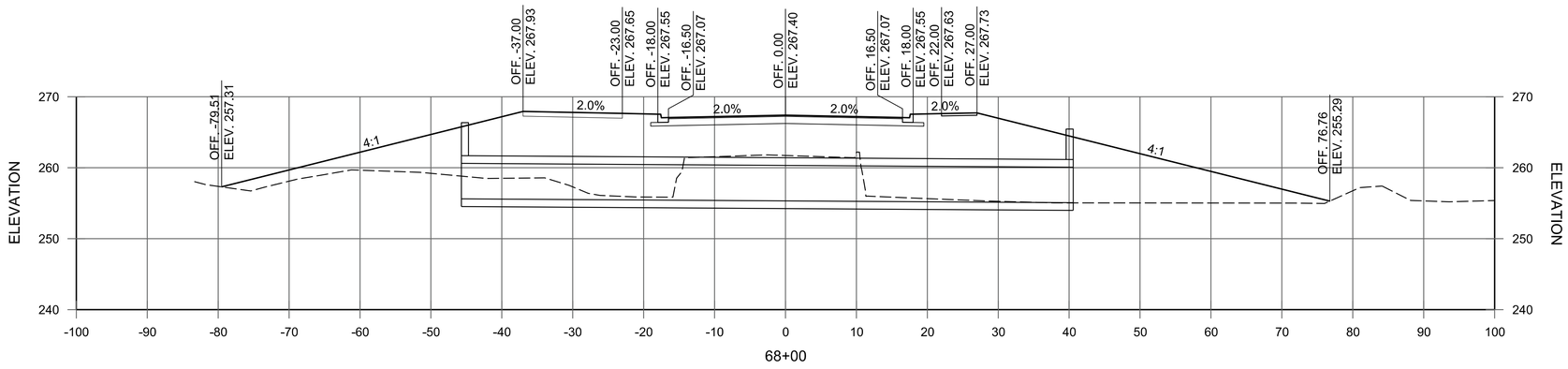
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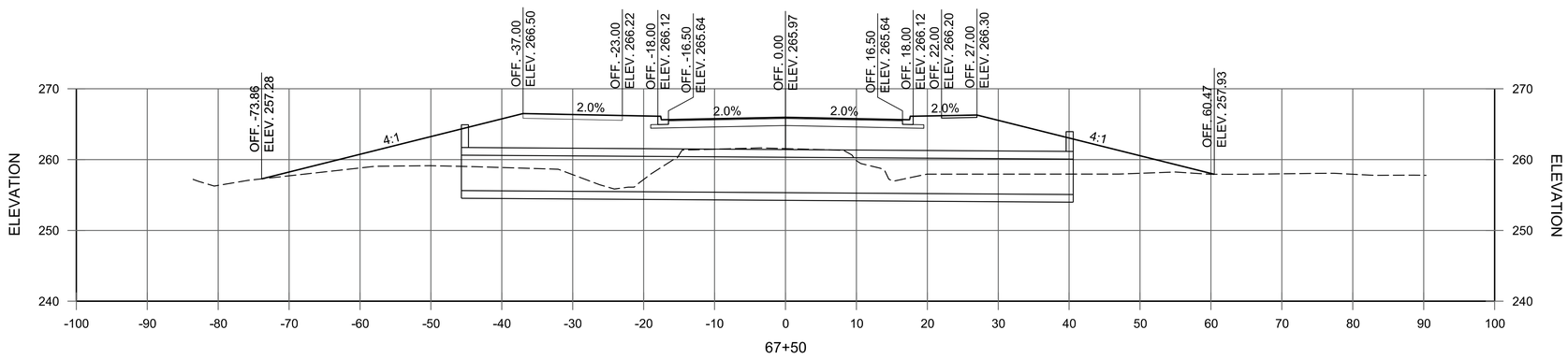
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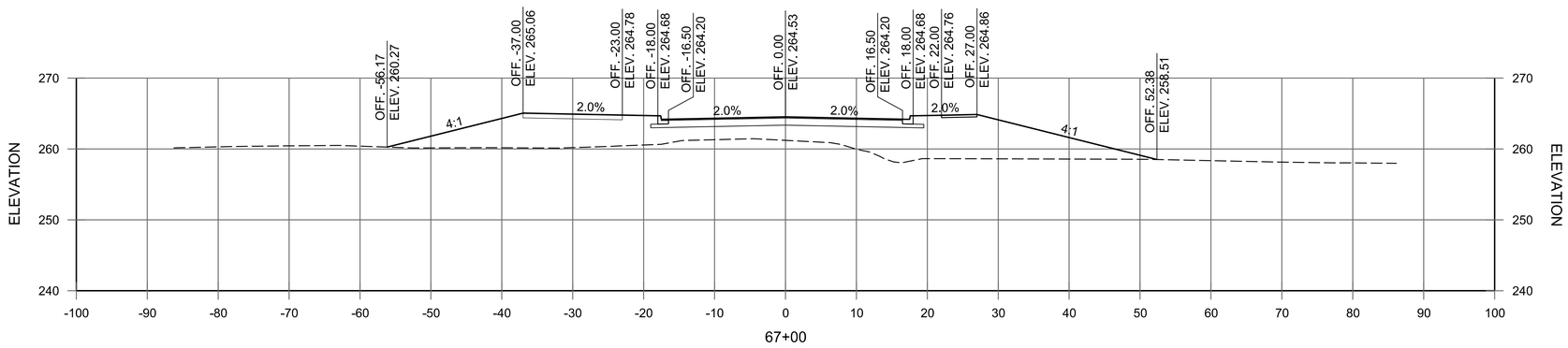
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

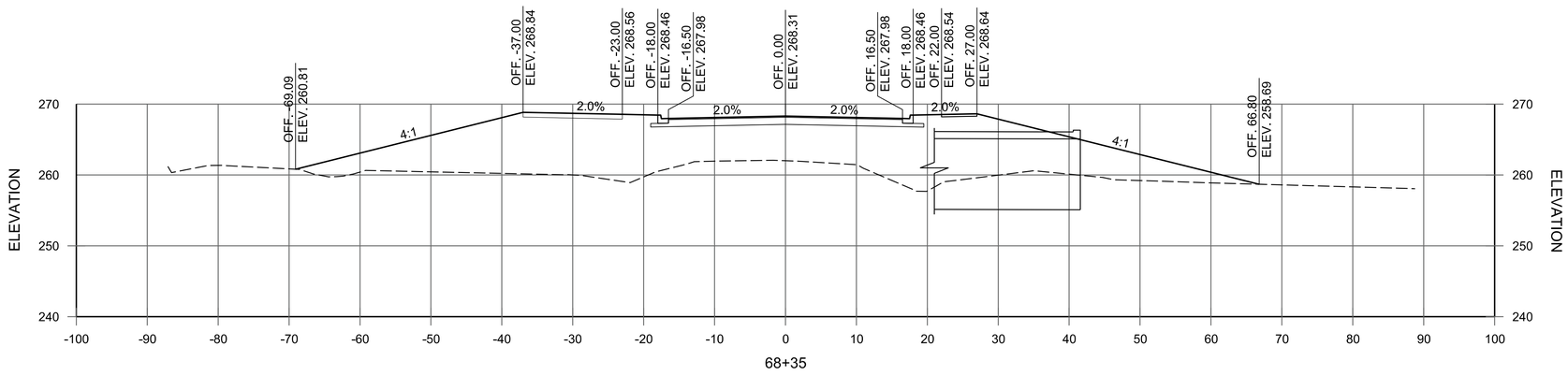
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DATE: JUNE 2023
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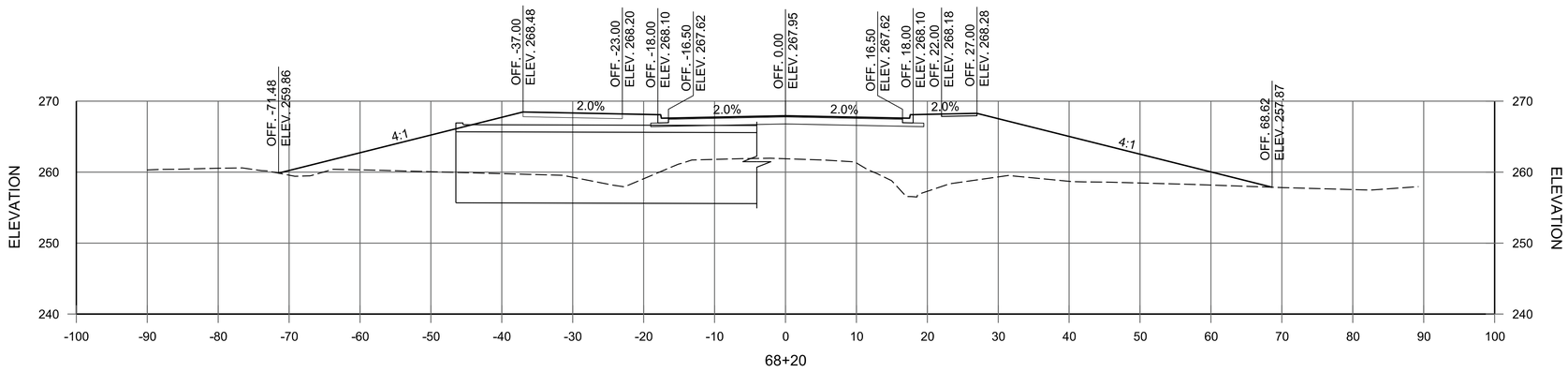
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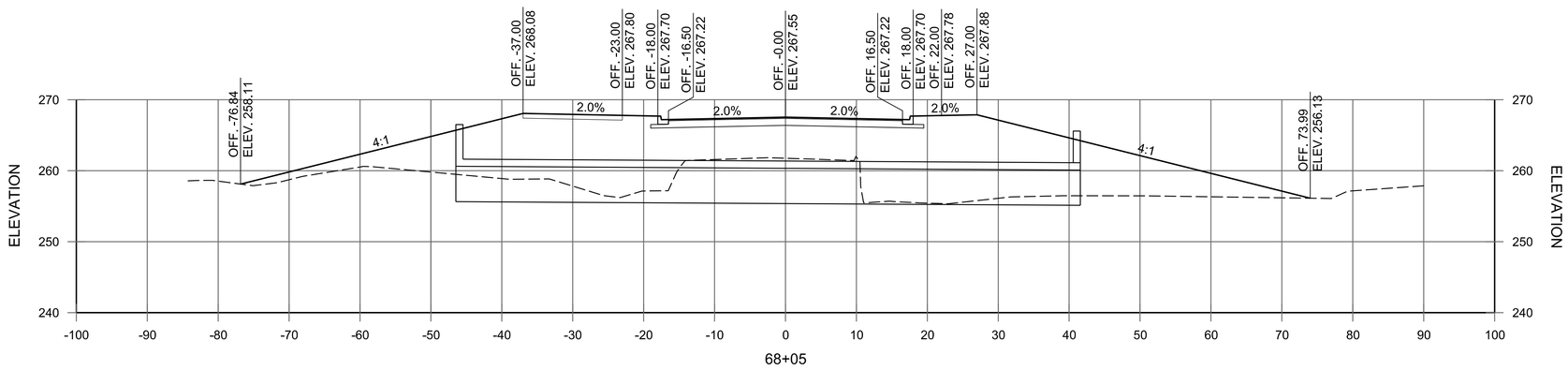
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

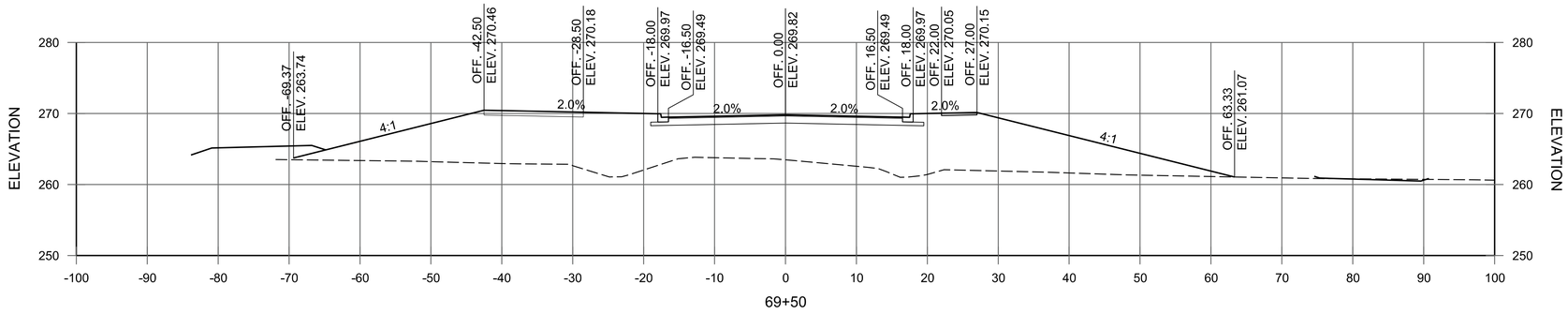
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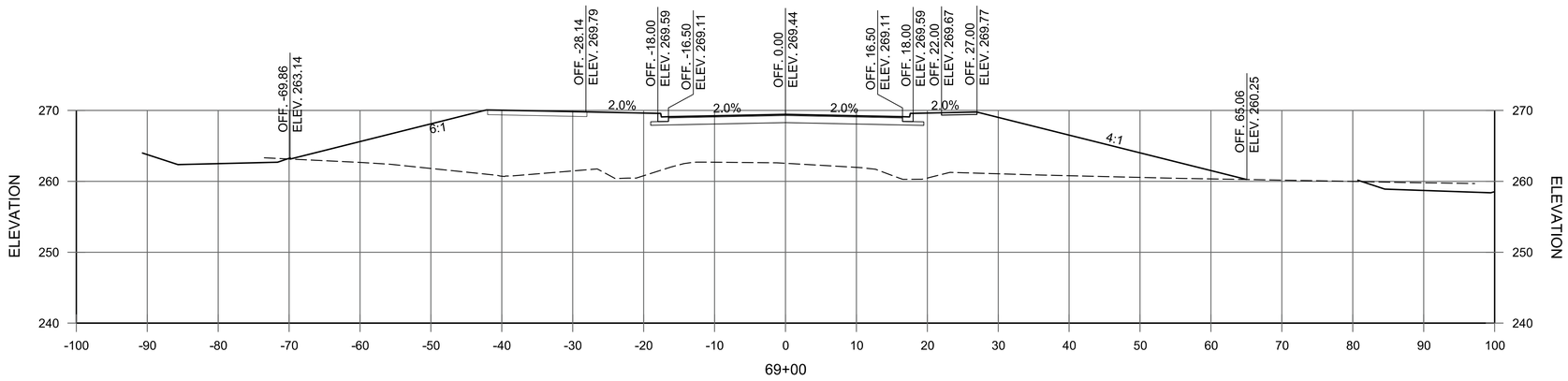
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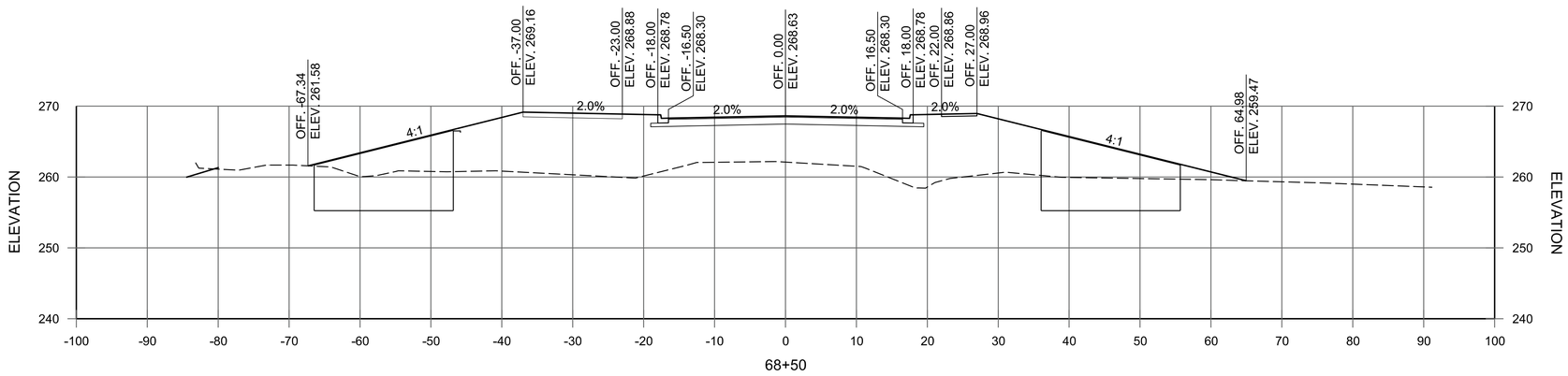
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PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

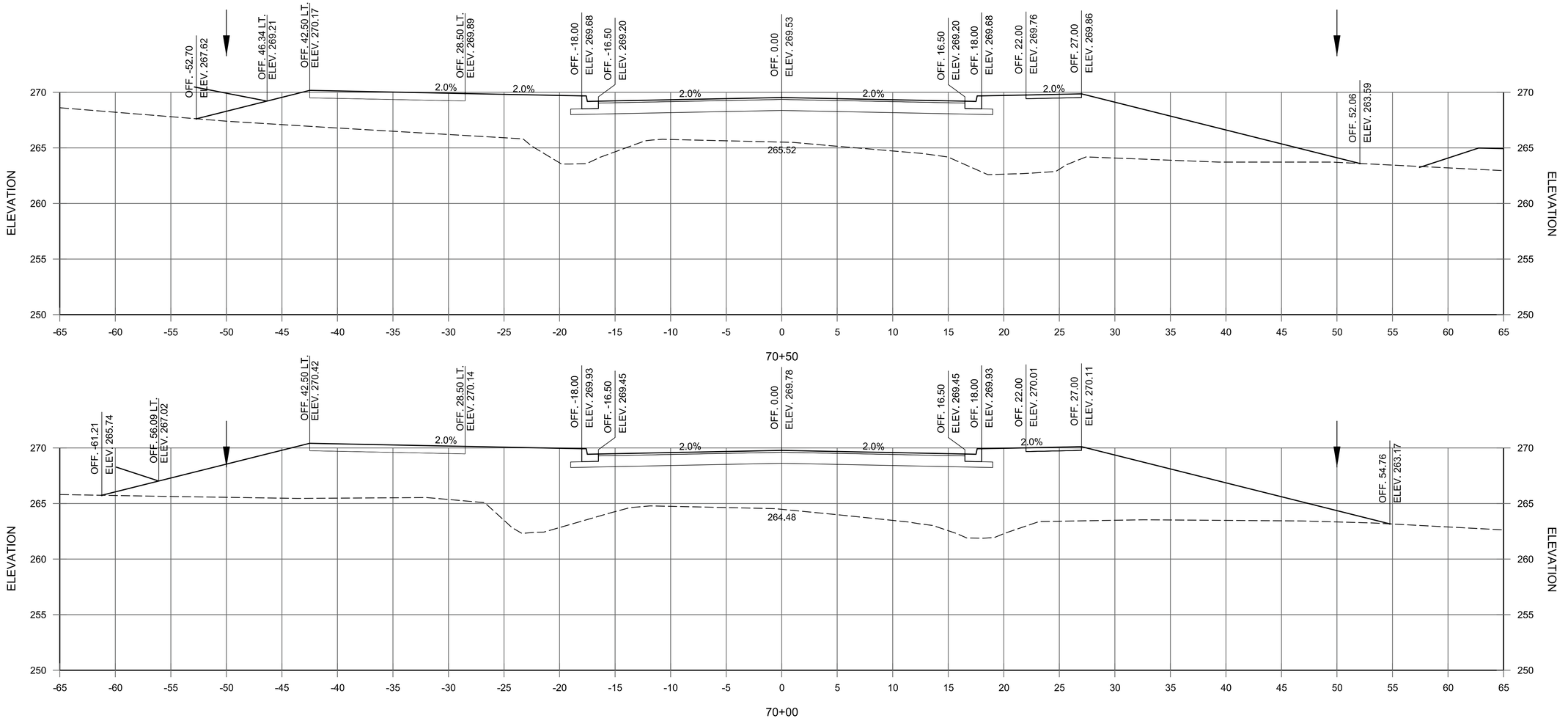
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PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

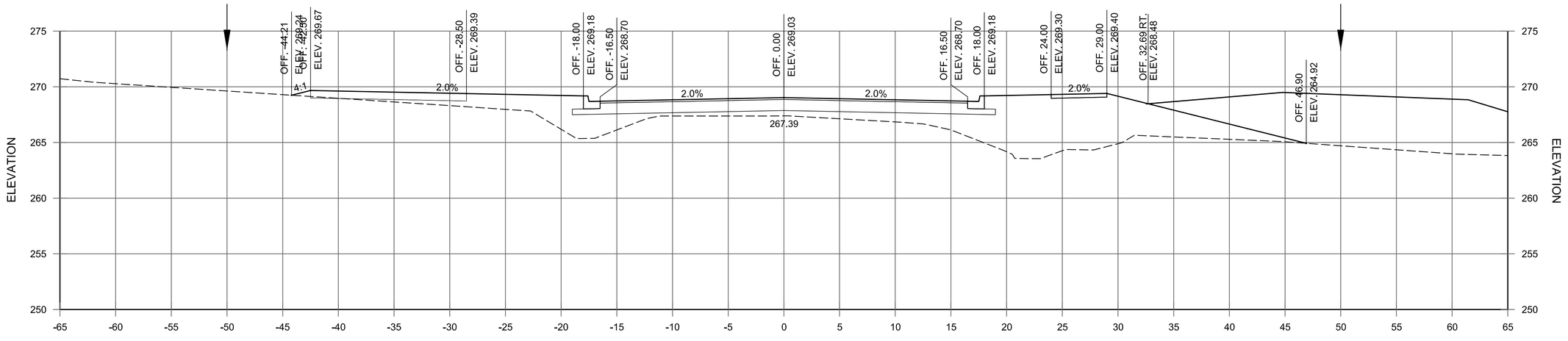
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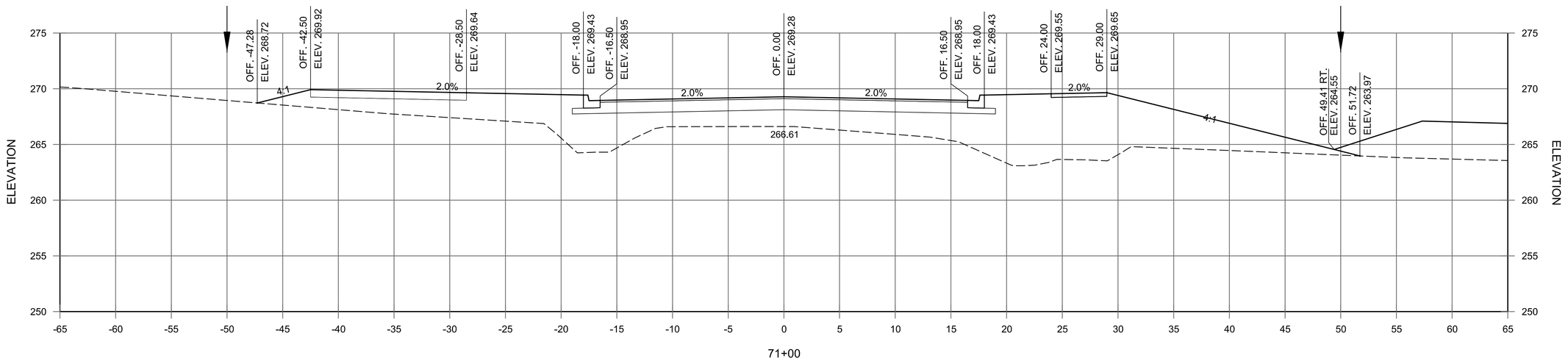
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71+50



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JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

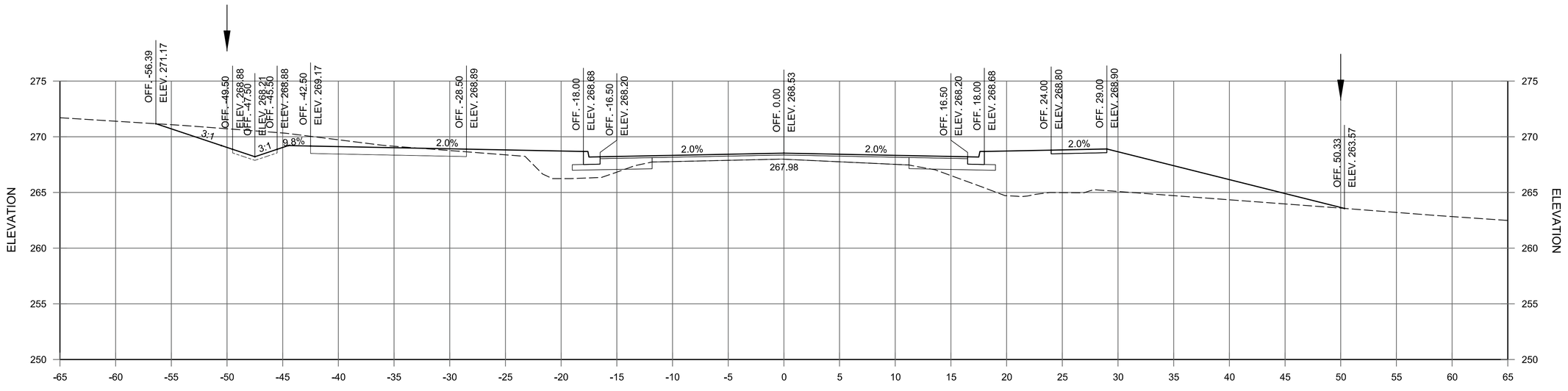
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PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

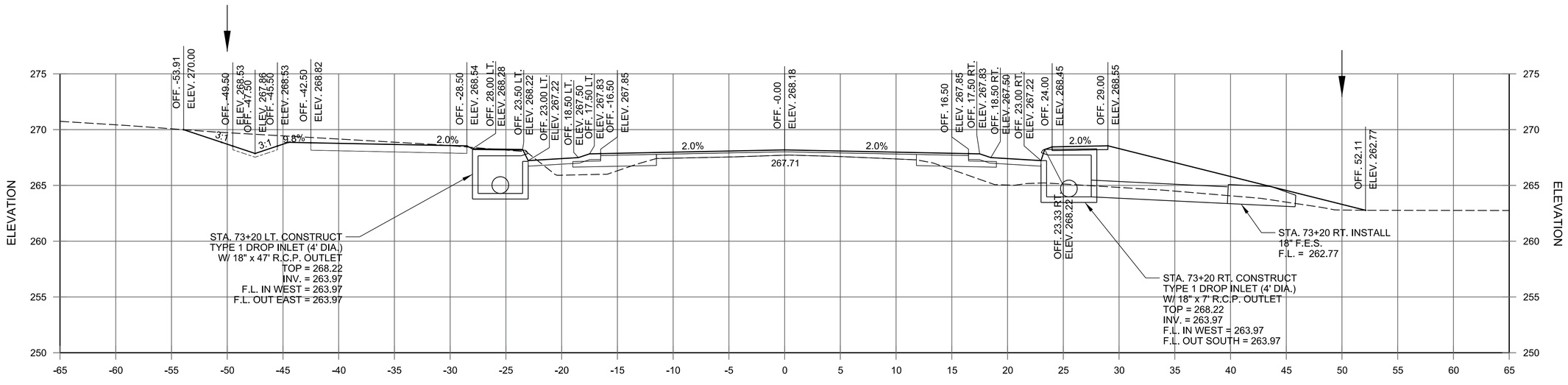
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

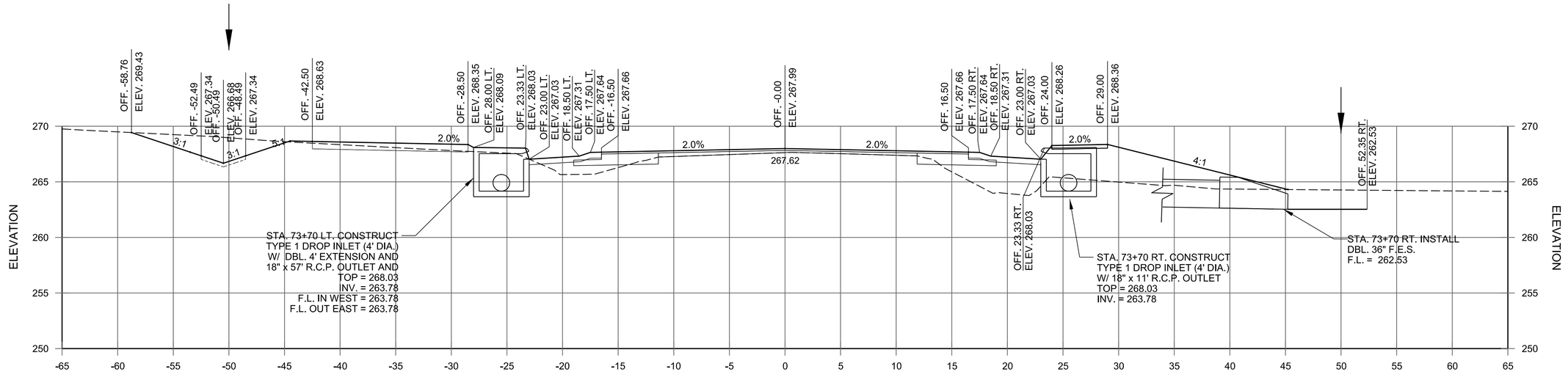
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

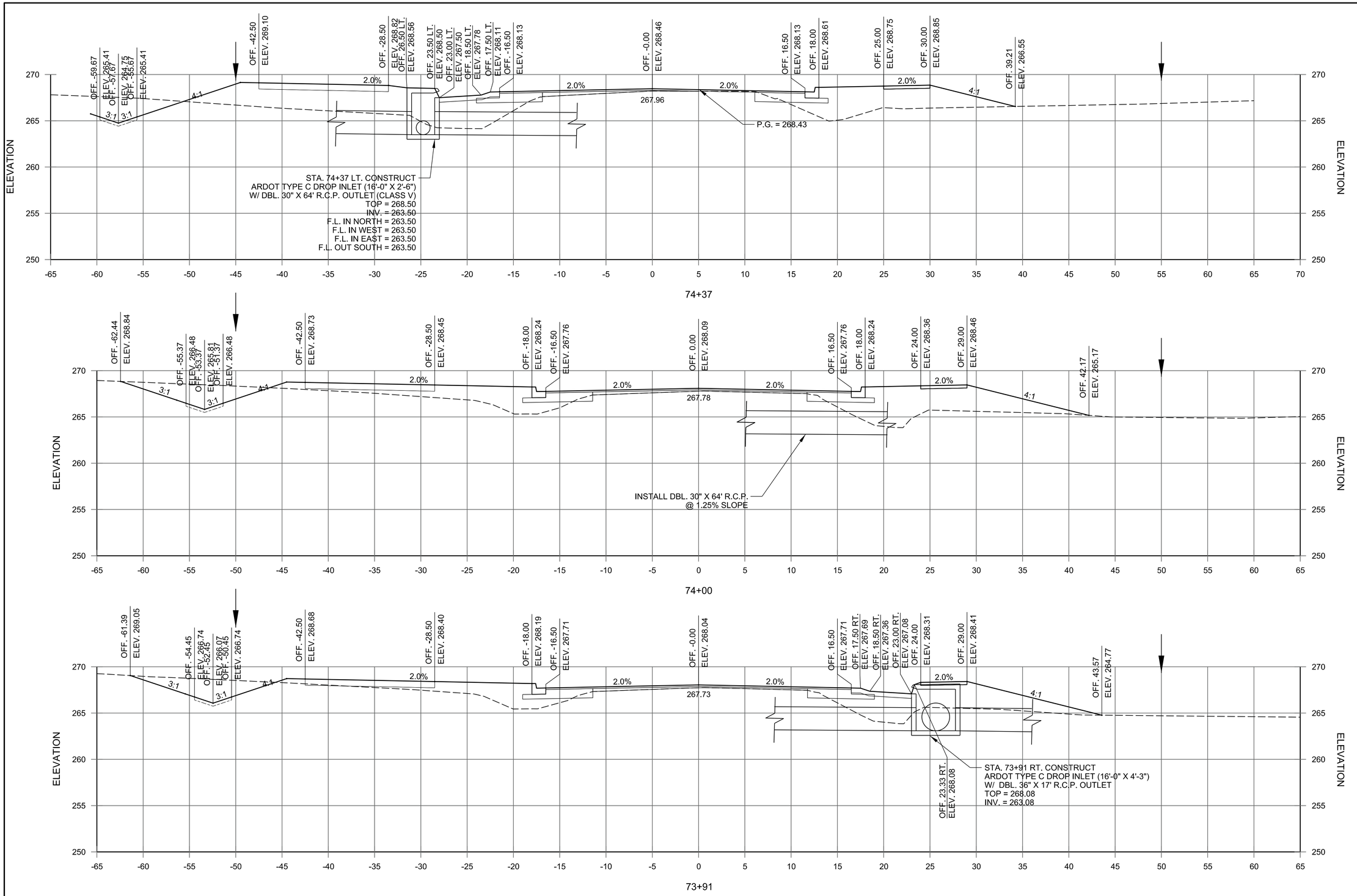
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

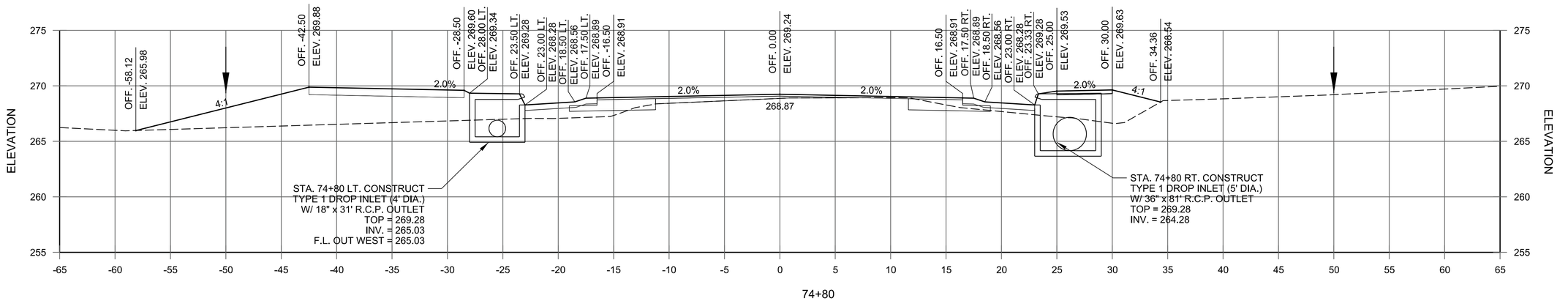
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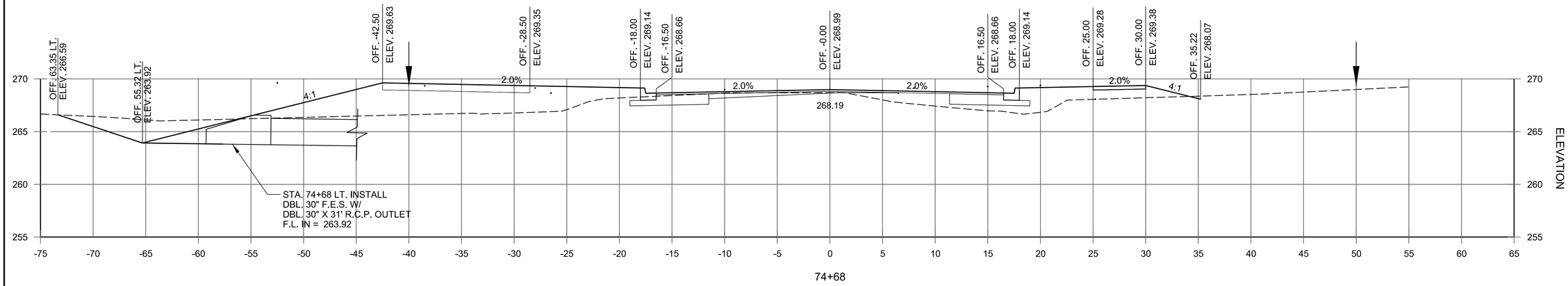
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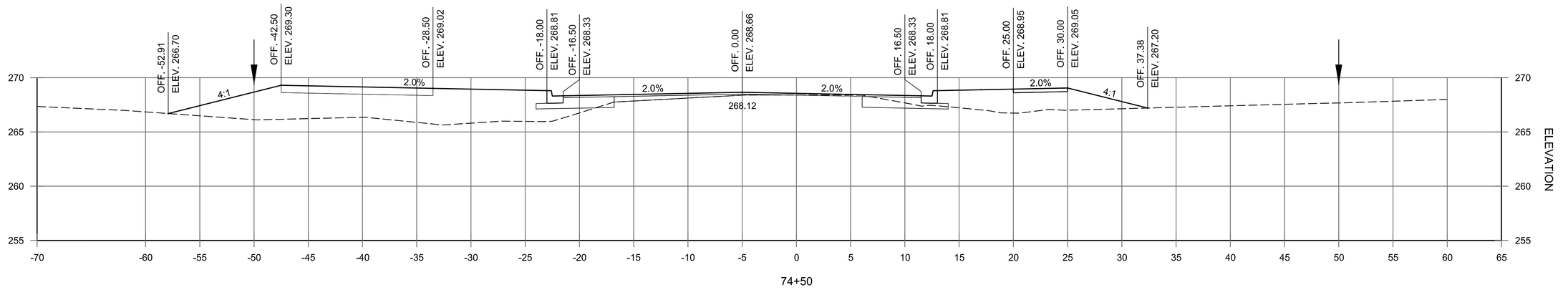
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

JOB NO.: 18017190
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75+50

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CITY OF SHERWOOD
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JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

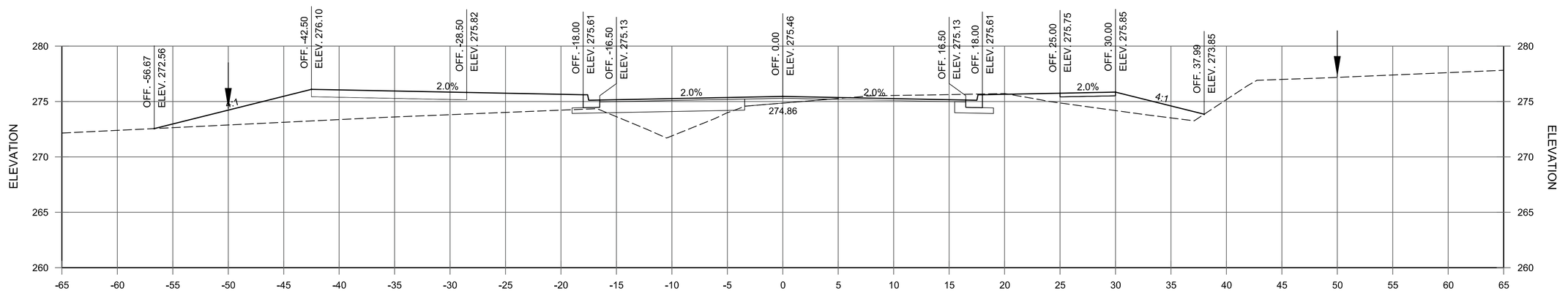
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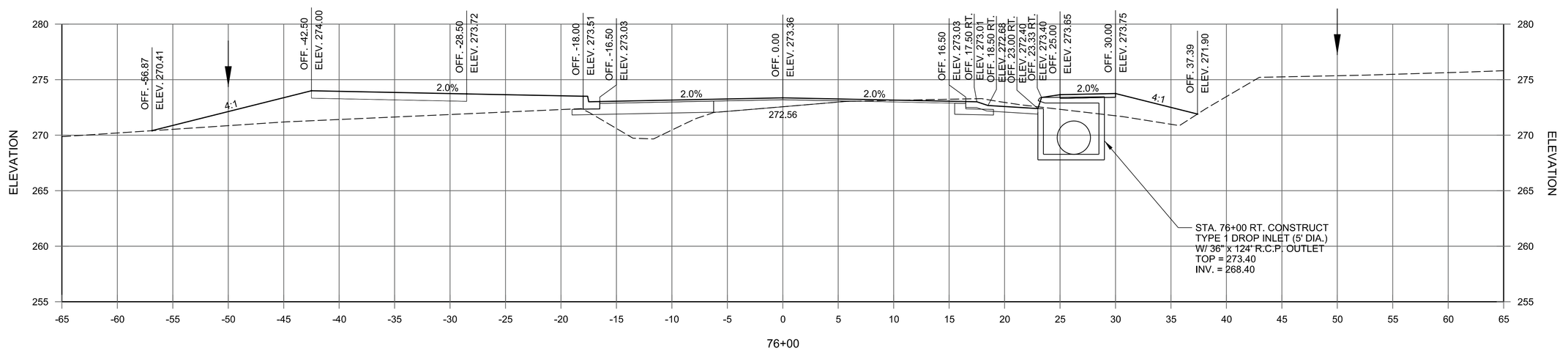
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76+50



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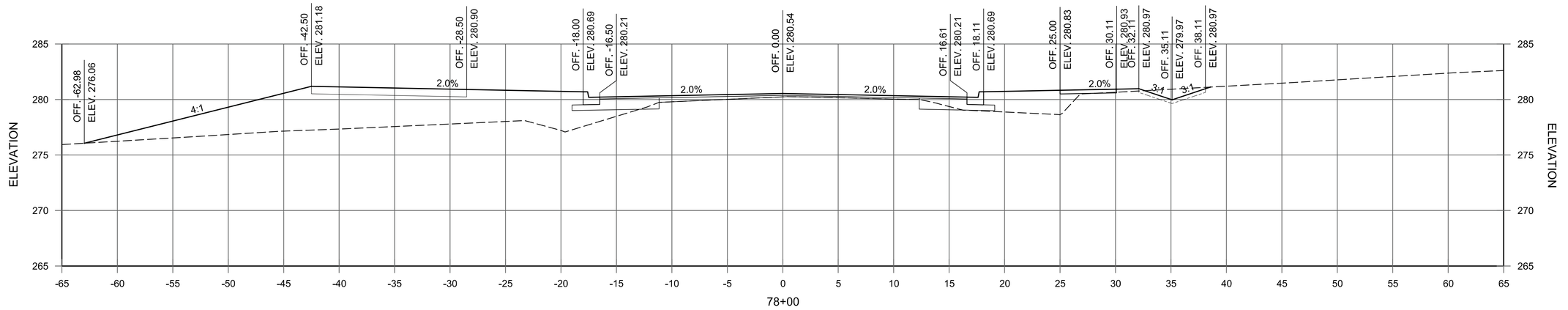
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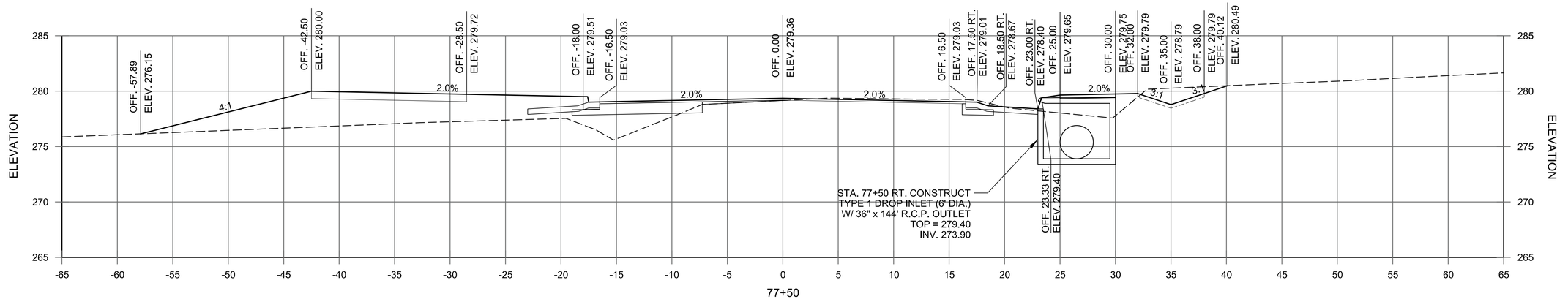
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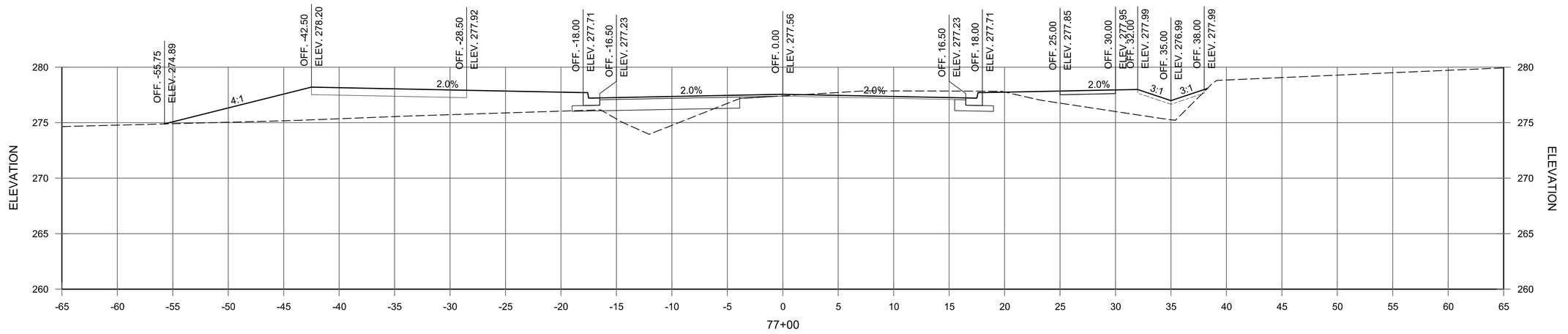
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JACKSONVILLE-CATO RD.
STA. 77+00 TO STA. 78+00

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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

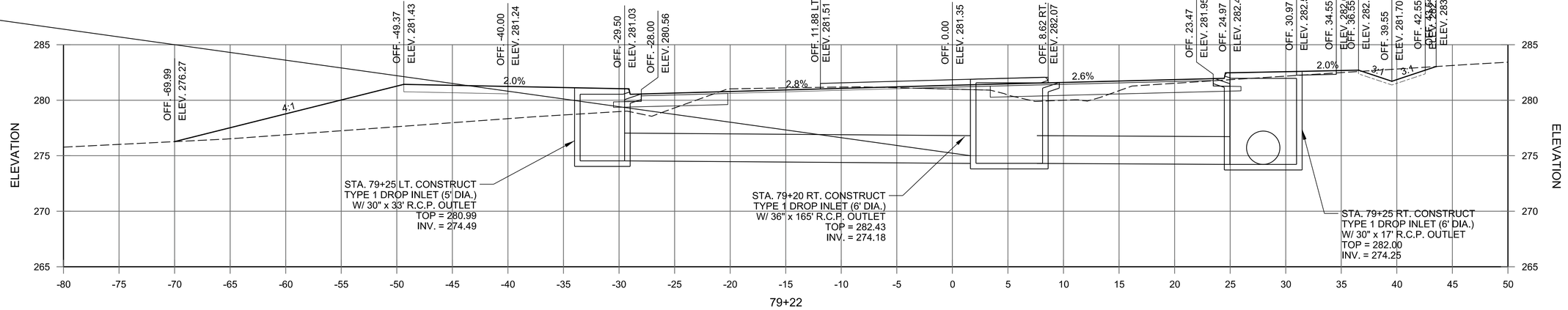
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
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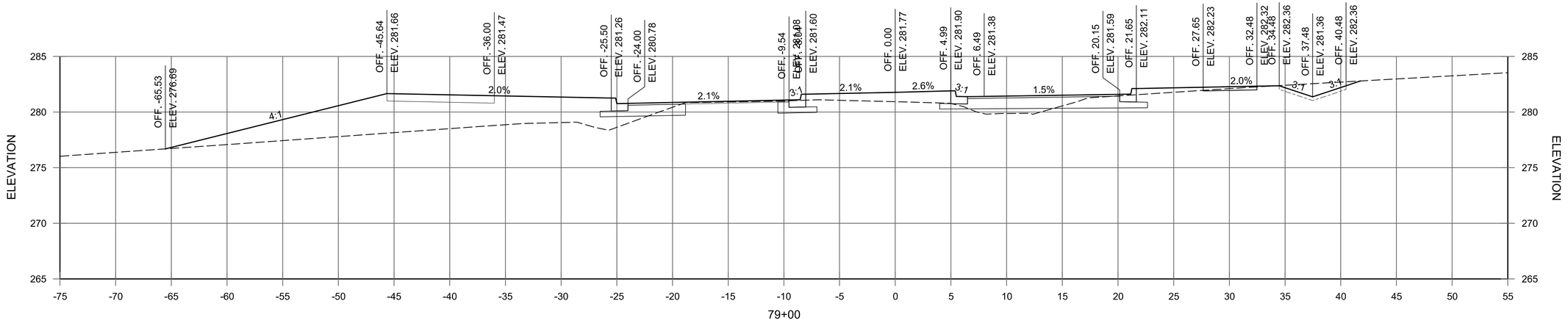
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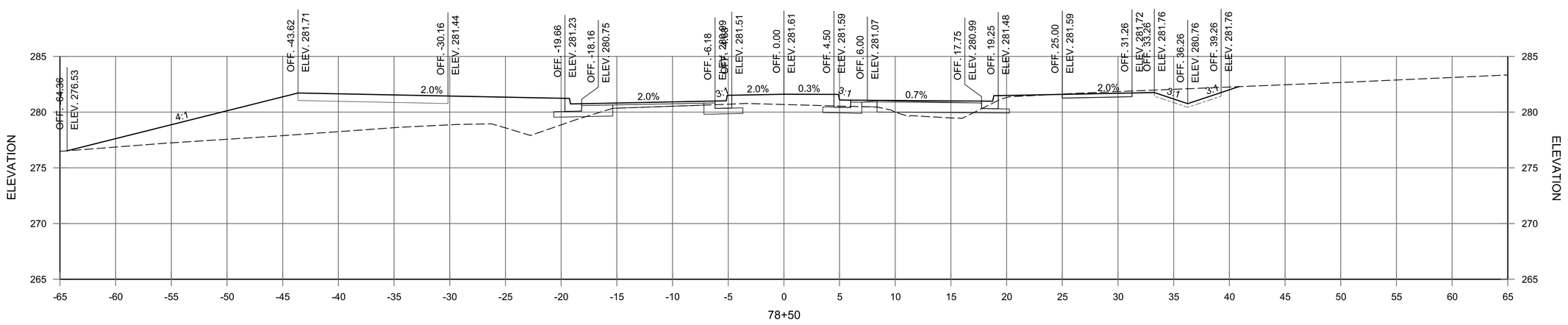
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

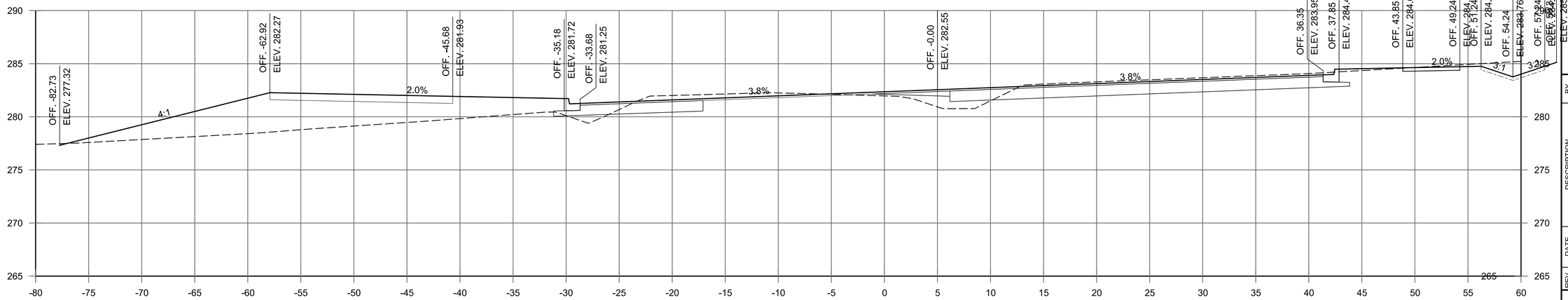
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DATE: JUNE 2023
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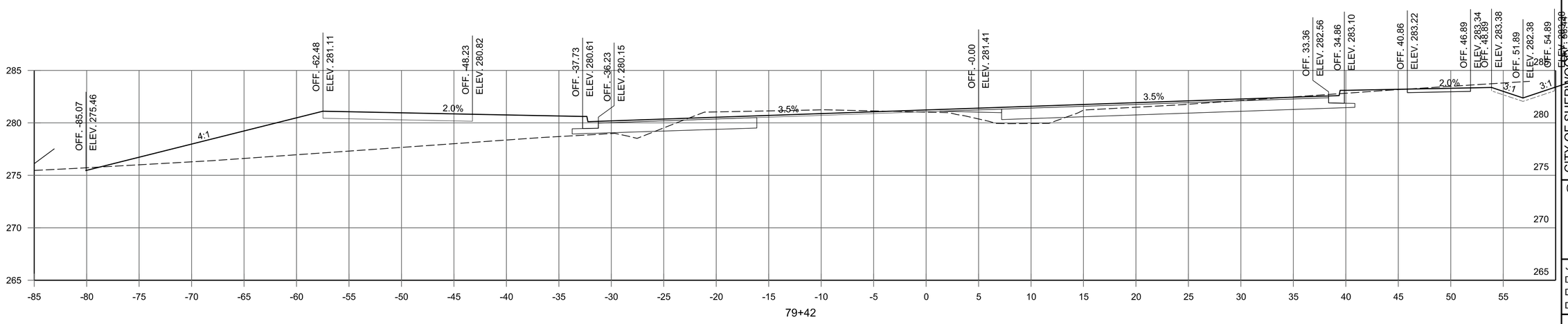
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81+12



79+42

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CITY OF SHERWOOD, ARKANSAS
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

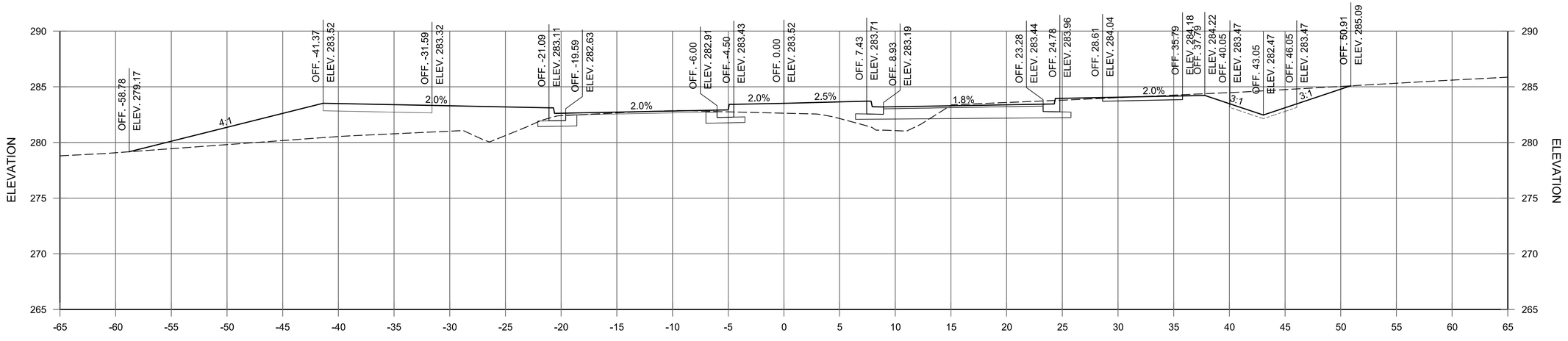
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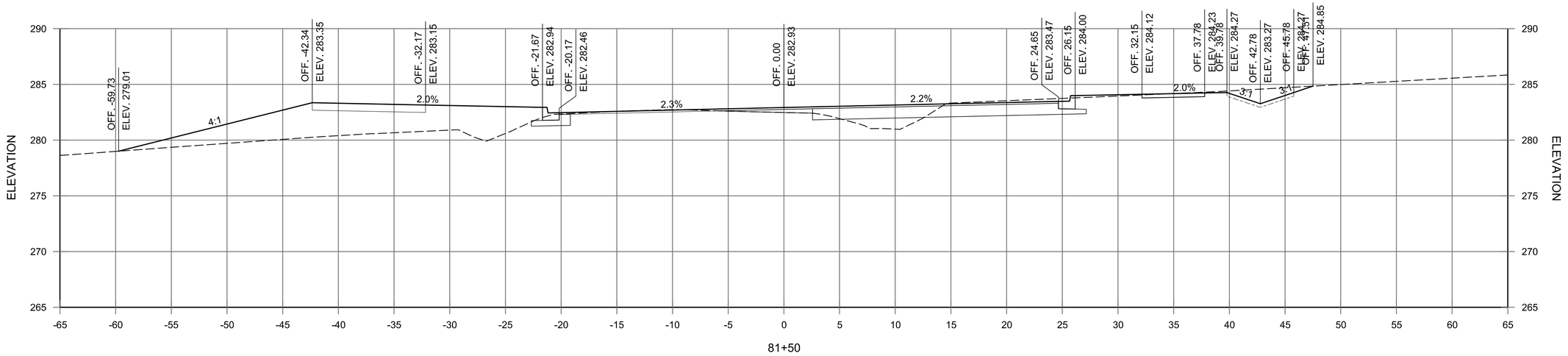
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81+60



81+50

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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

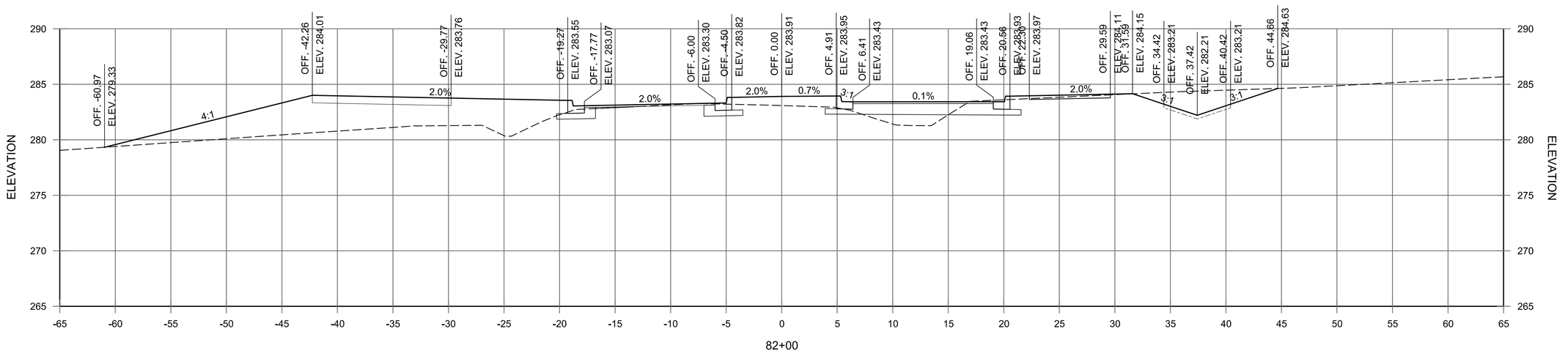
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DATE: JUNE 2023
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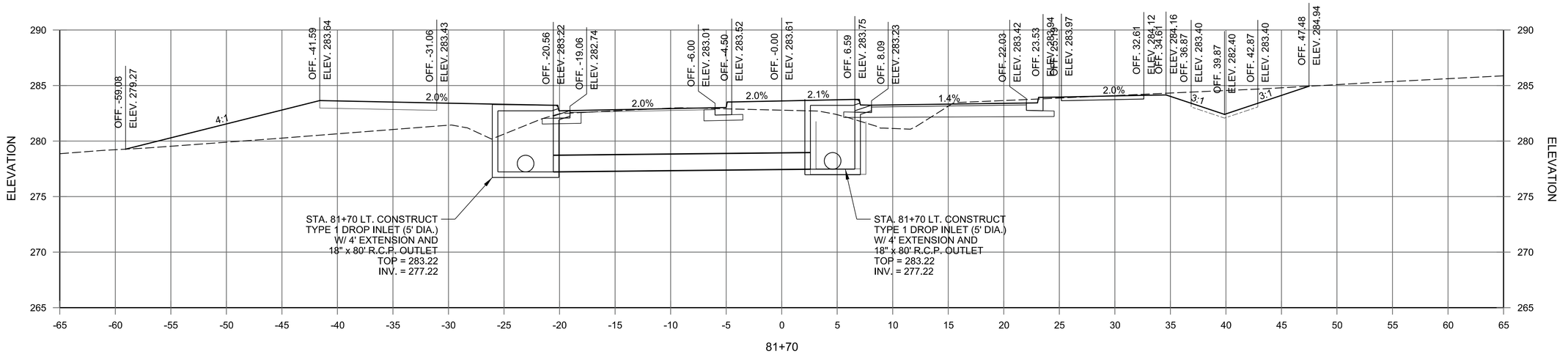
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82+00



81+70

JACKSONVILLE-CATO RD.
STA. 81+70 TO STA. 82+00

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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

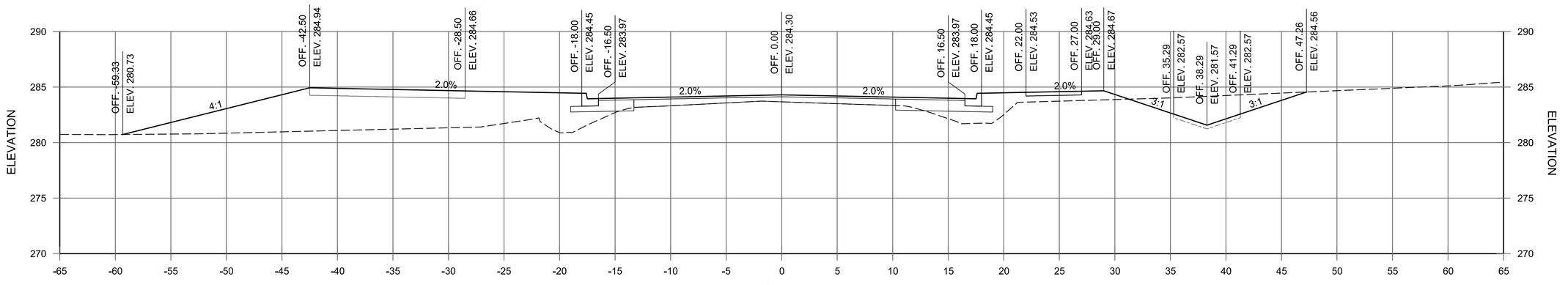
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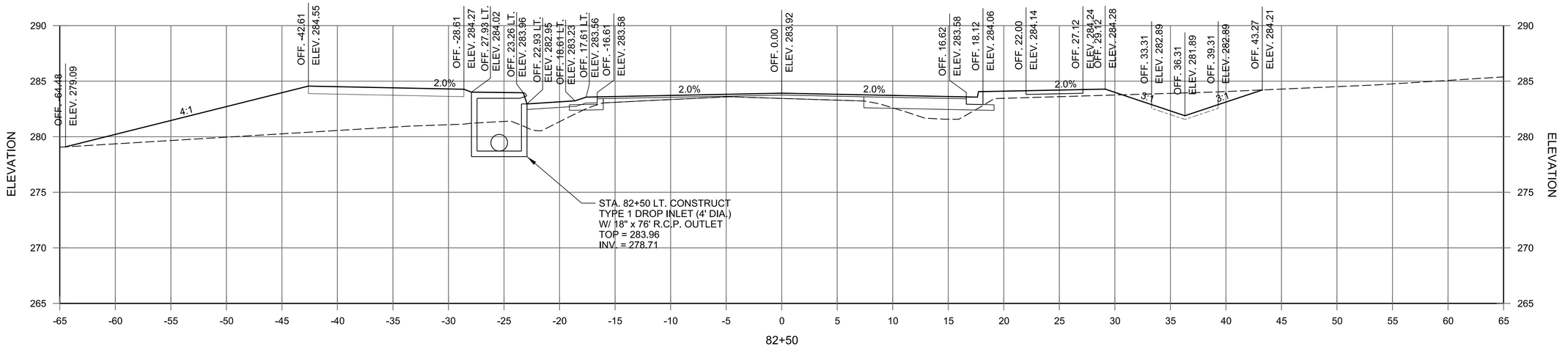
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JACKSONVILLE-CATO RD.
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
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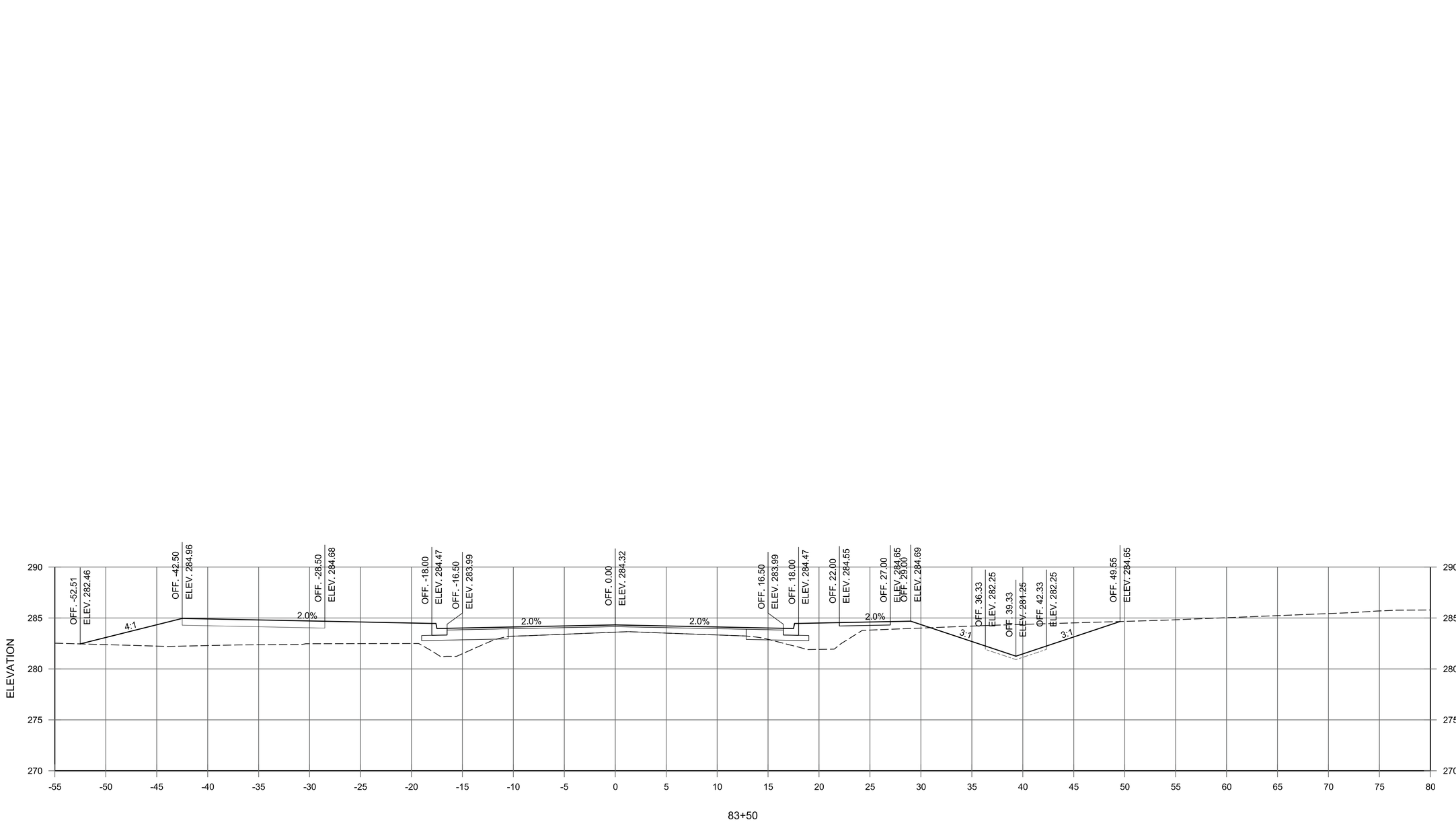
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

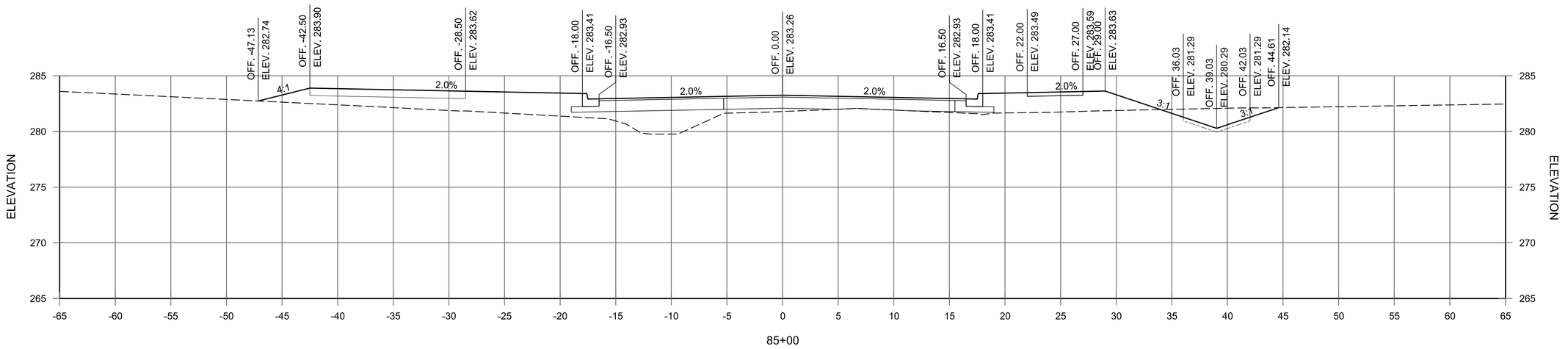
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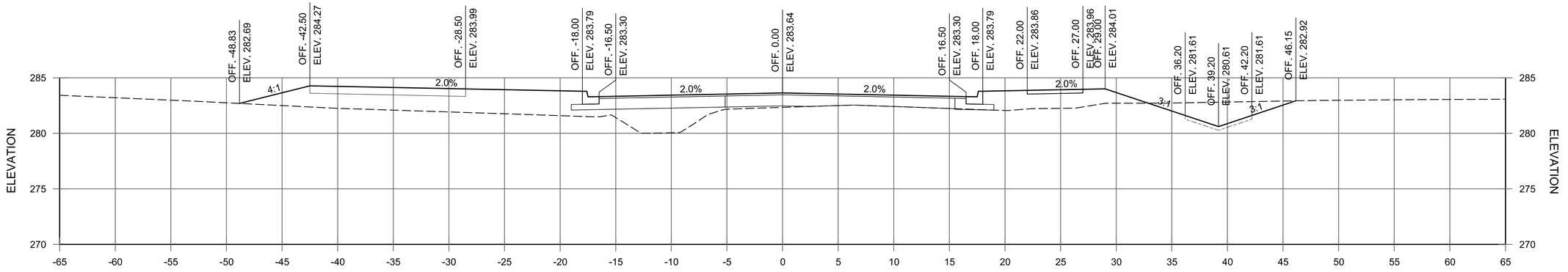
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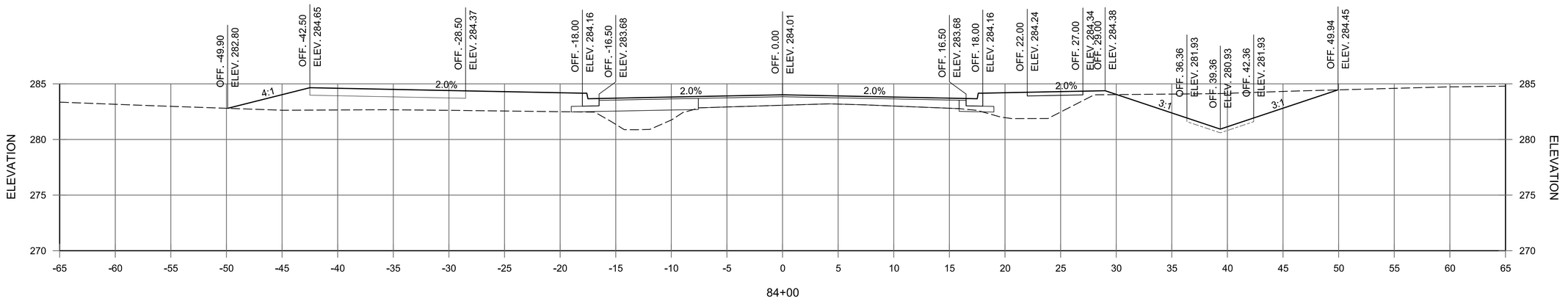
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JACKSONVILLE-CATO RD.
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

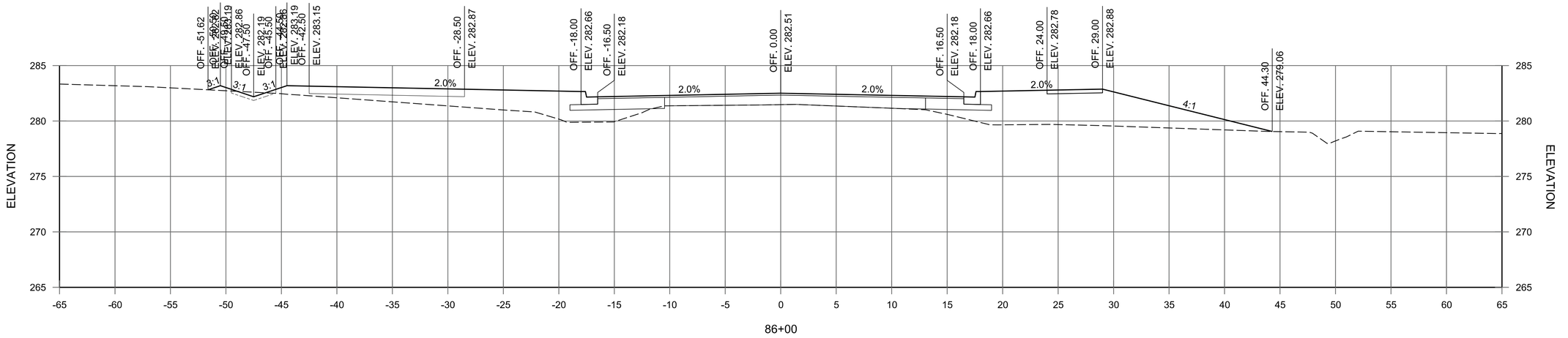
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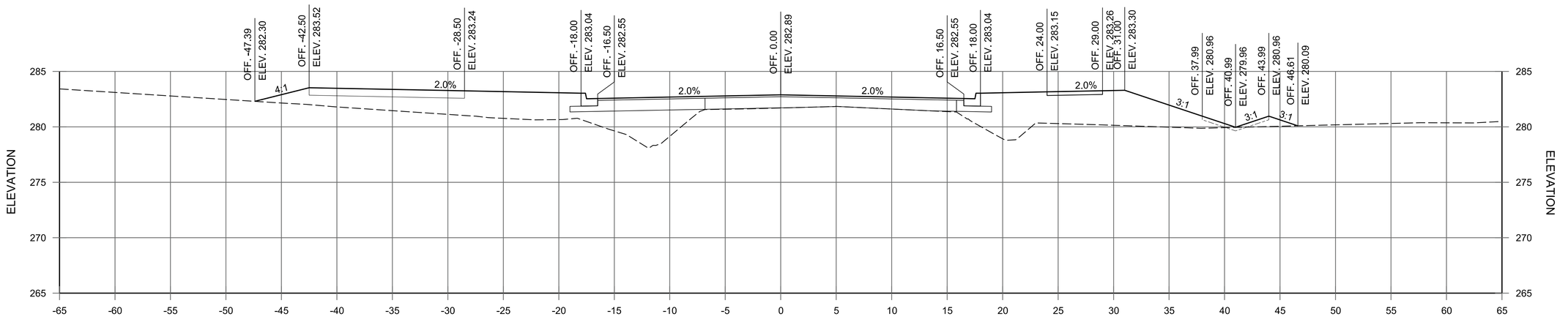
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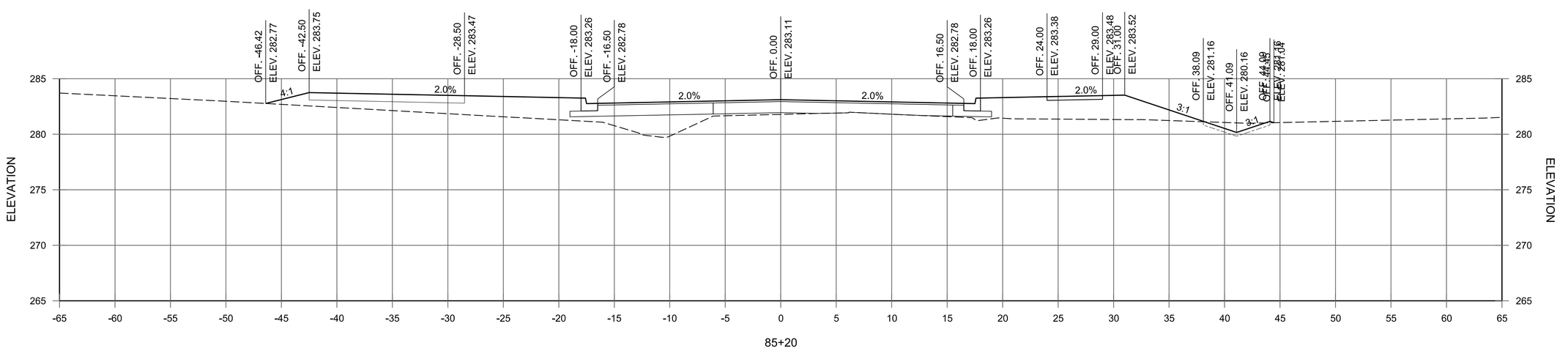
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

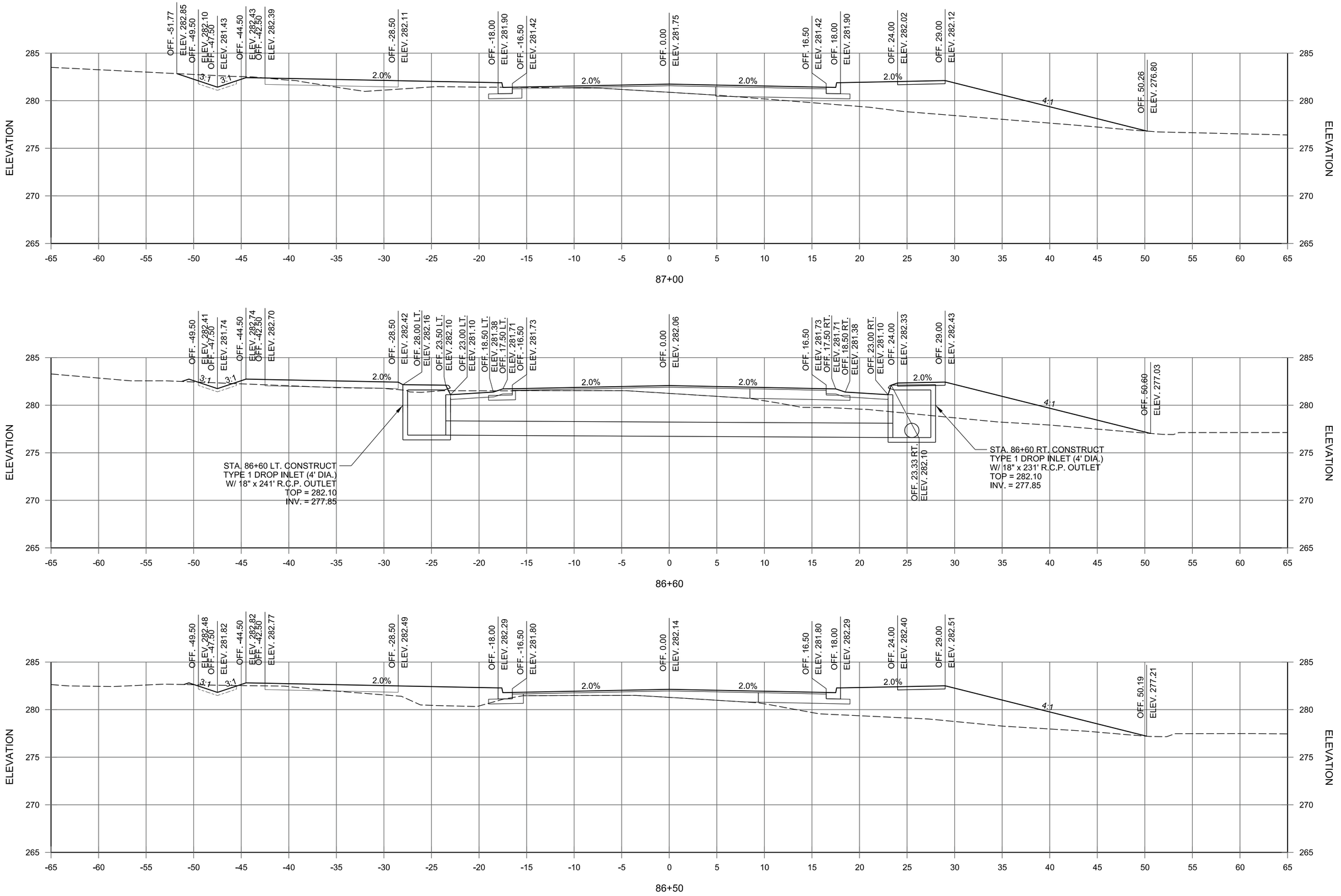
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

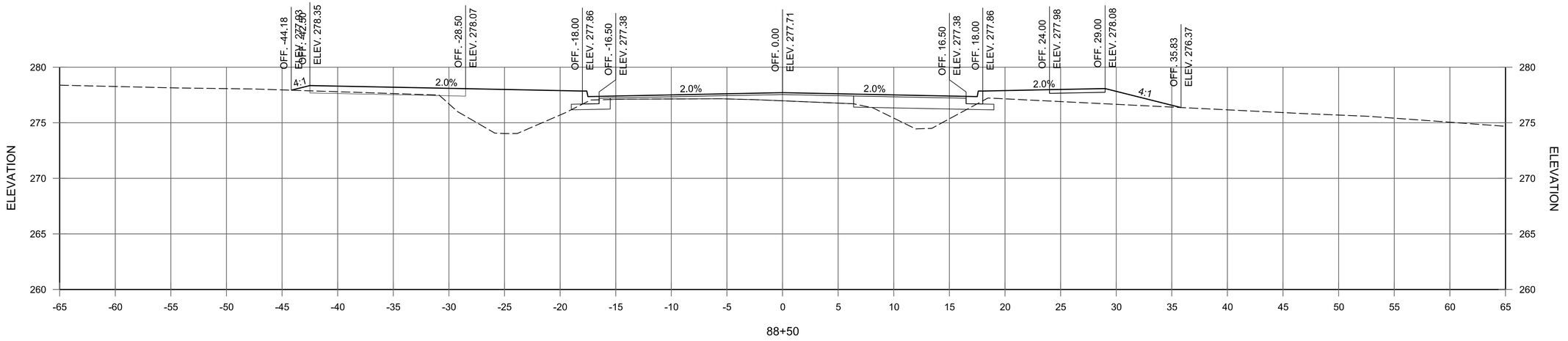
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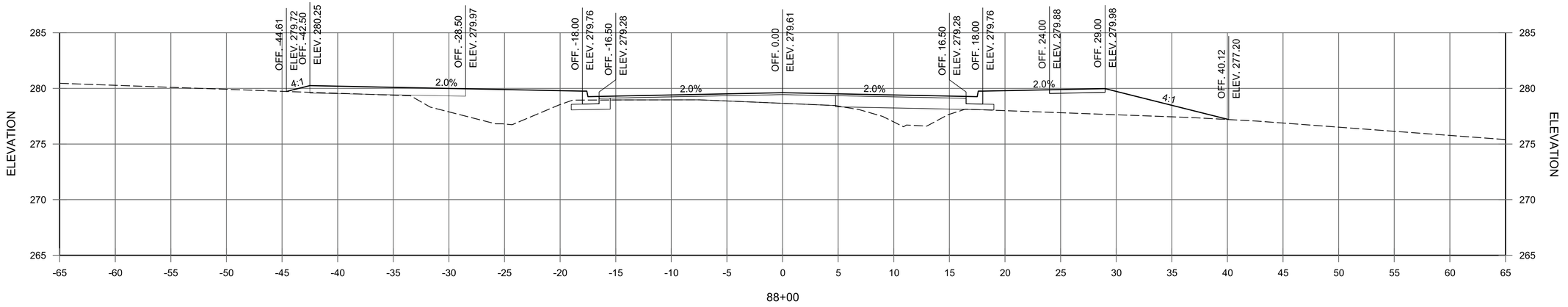
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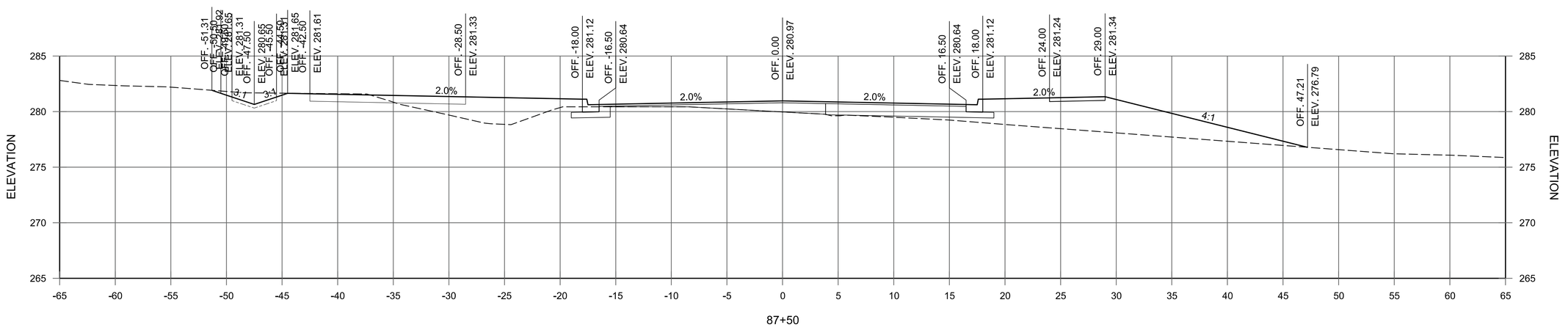
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JACKSONVILLE-CATO RD.
STA. 87+50 TO STA. 88+50

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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

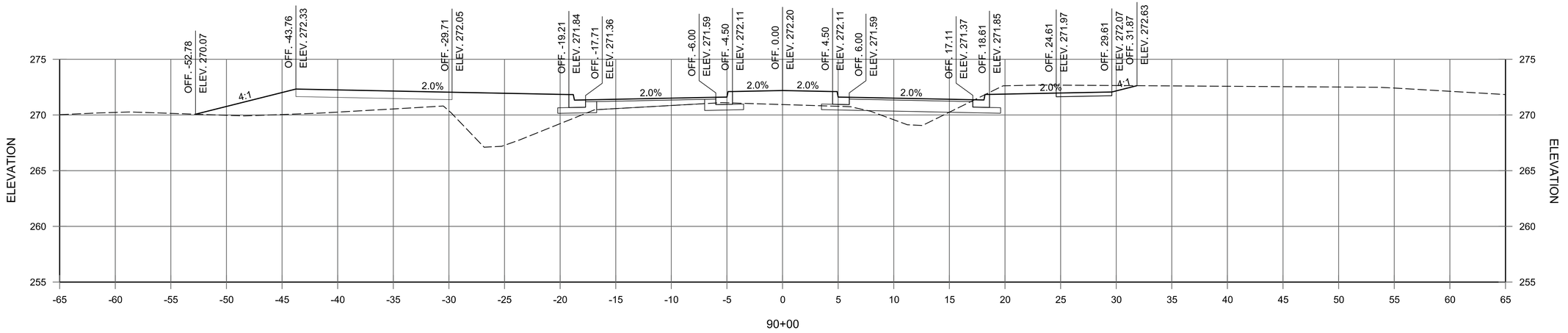
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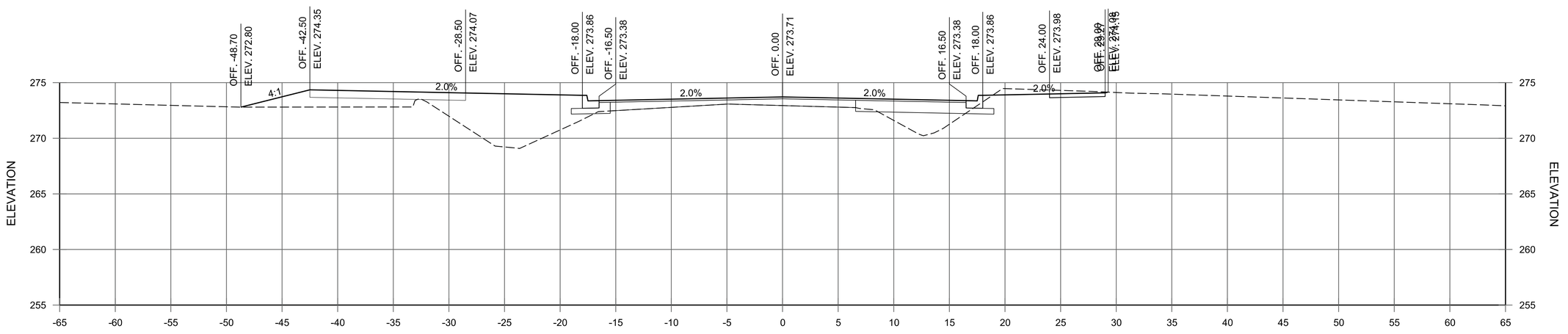
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

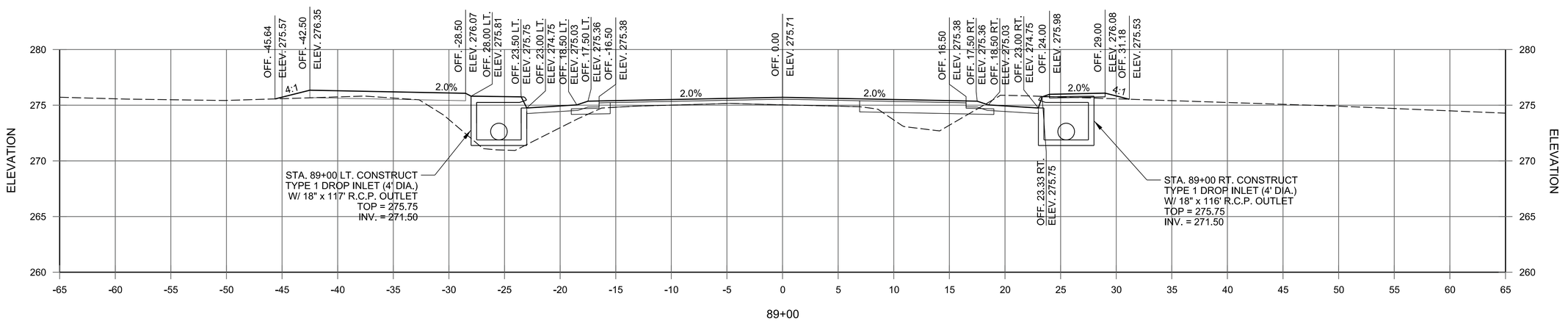
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DRAWING NUMBER
C-935

SHEET NUMBER **143**







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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

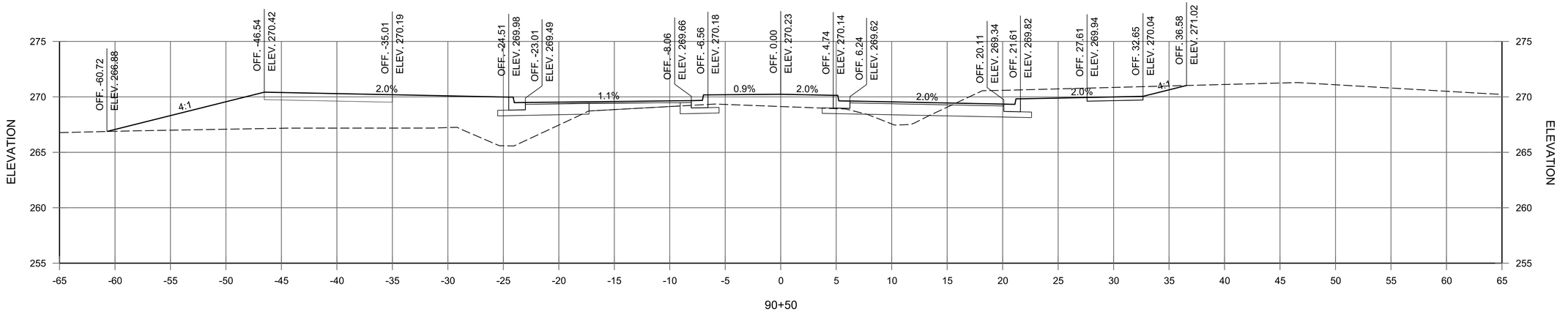
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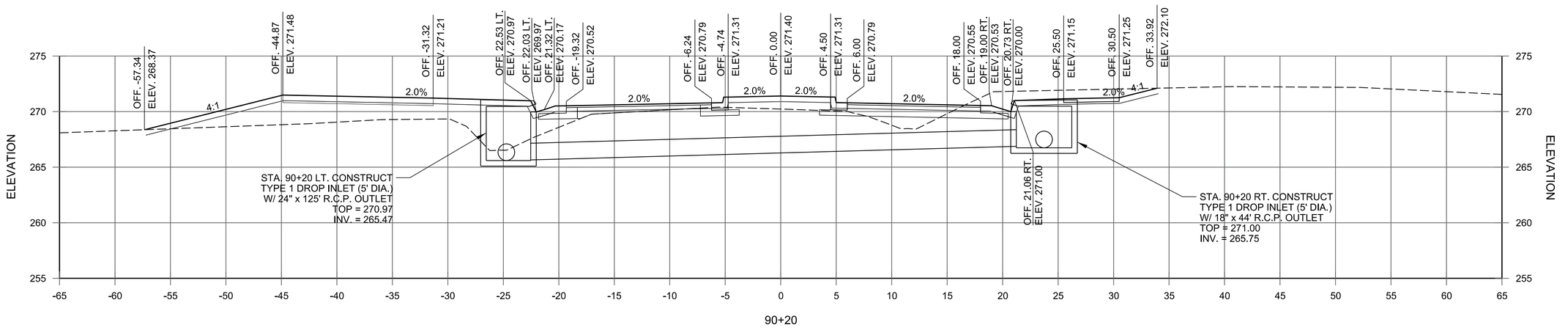
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

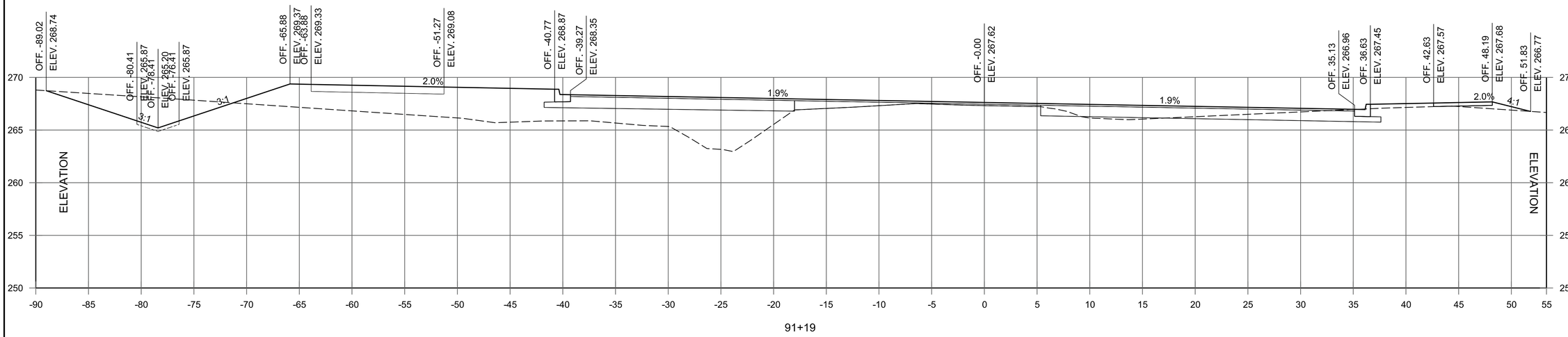
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DATE: JUNE 2023
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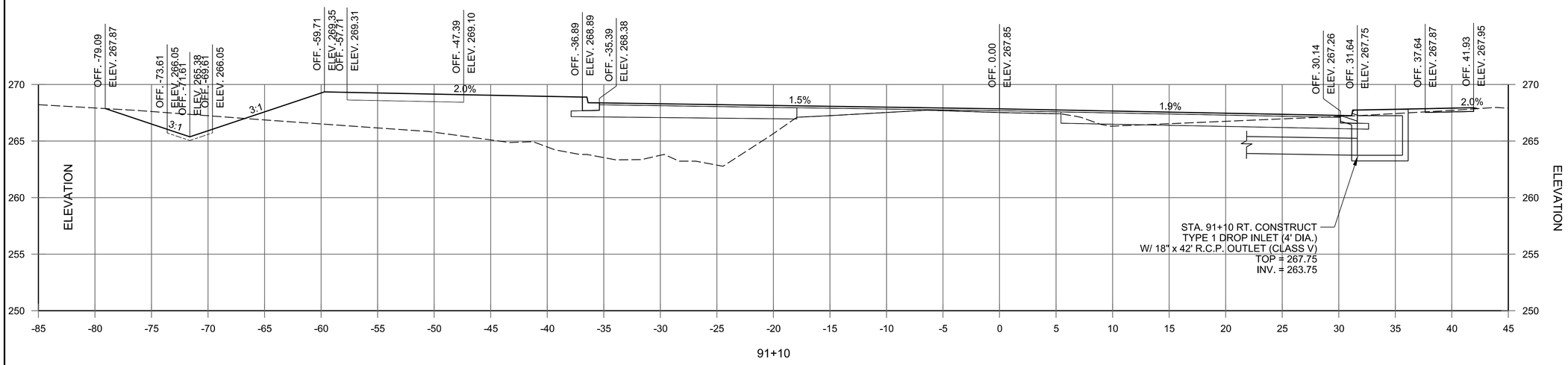
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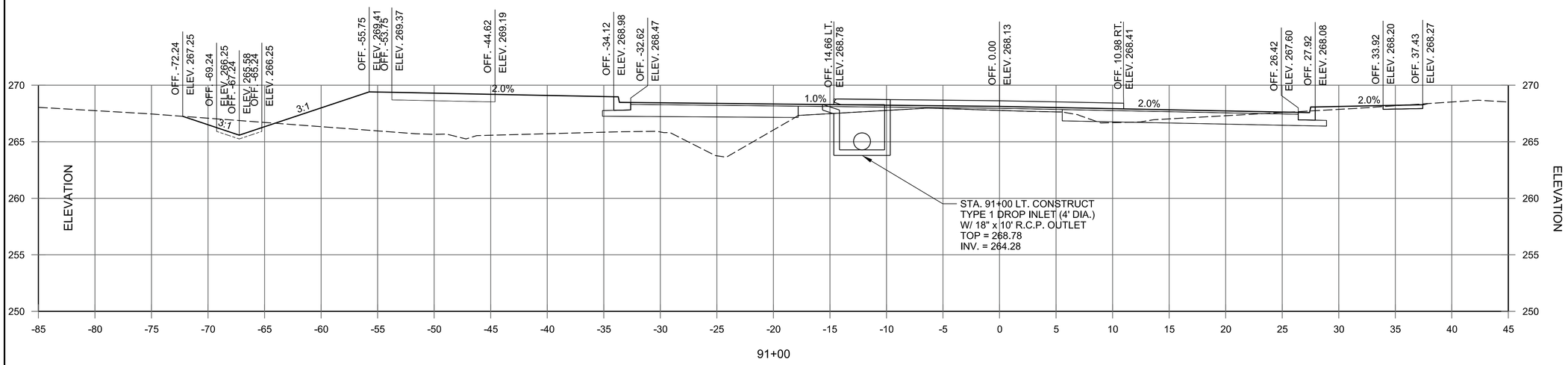
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JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
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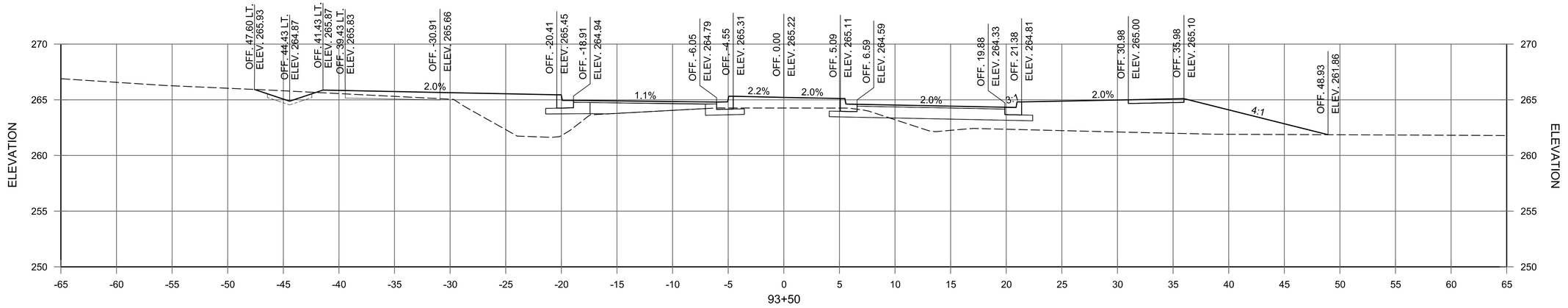
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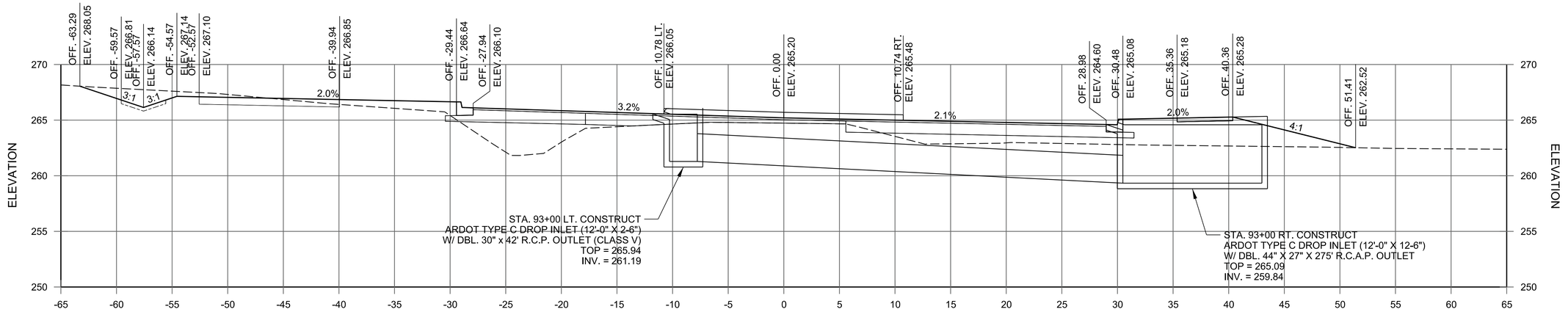
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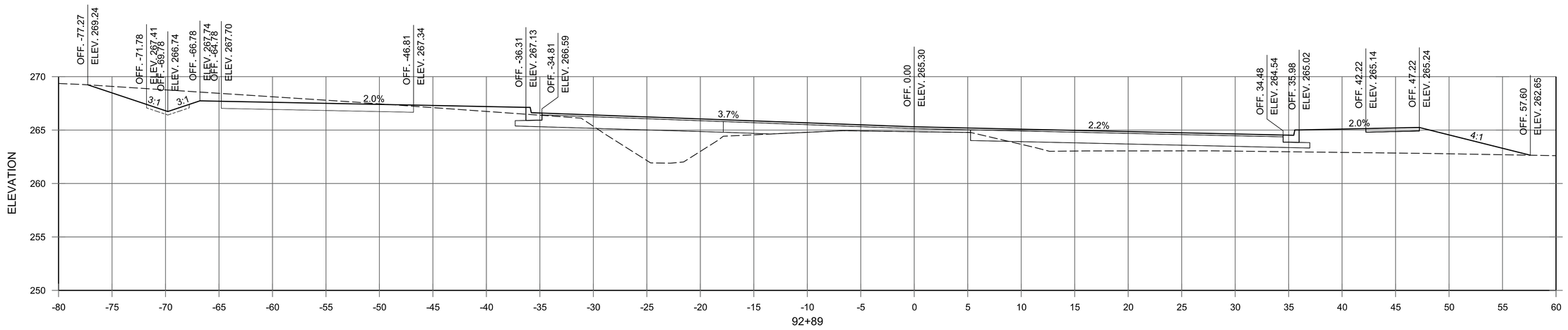
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

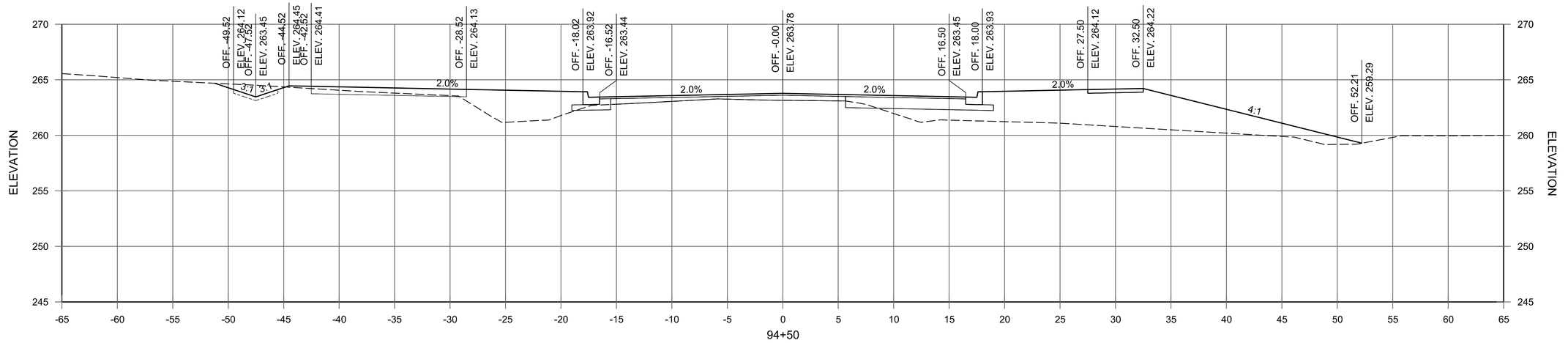
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DATE: JUNE 2023
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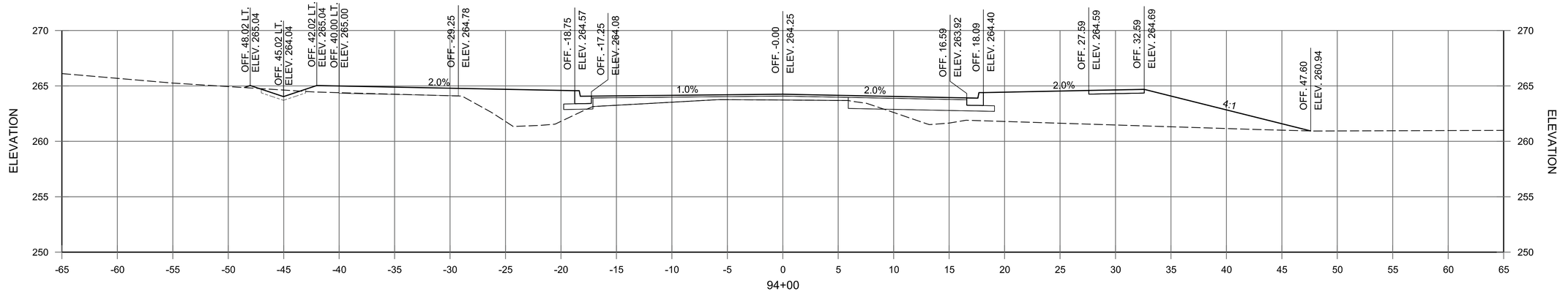
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

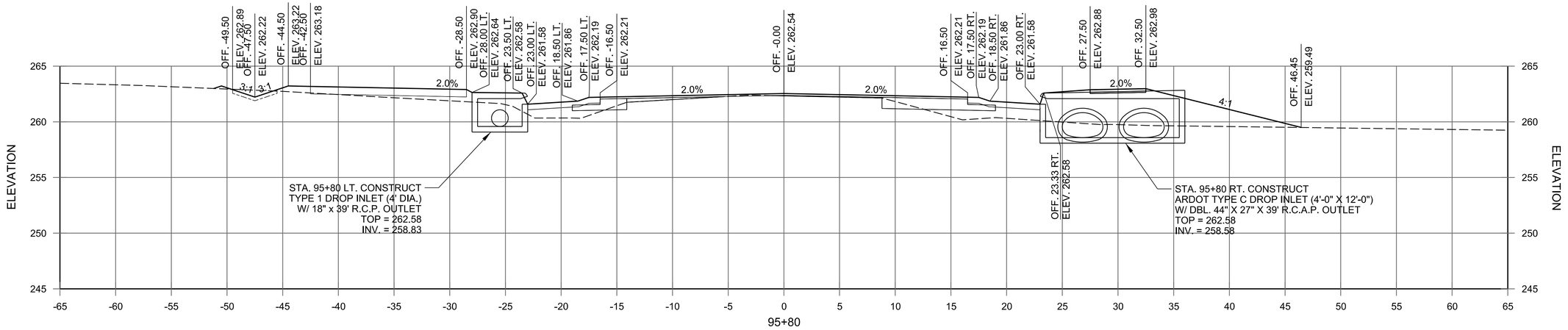
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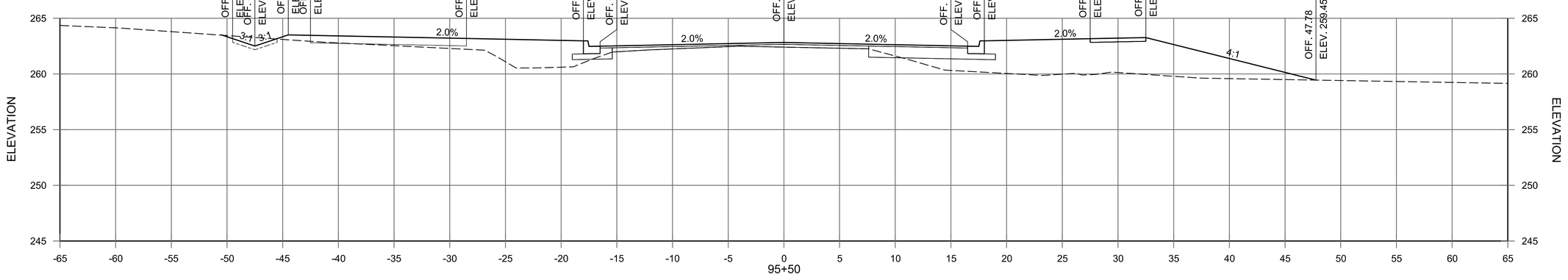
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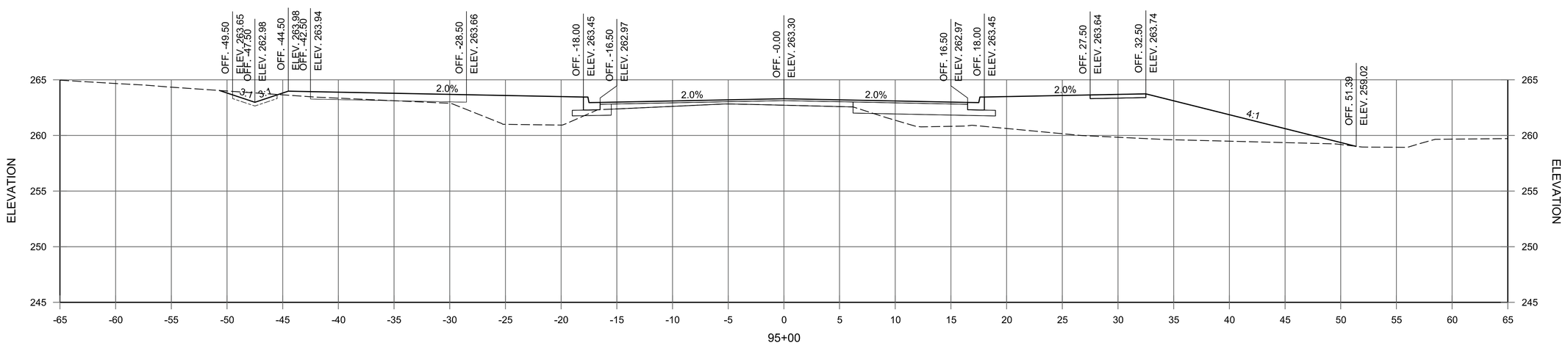
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

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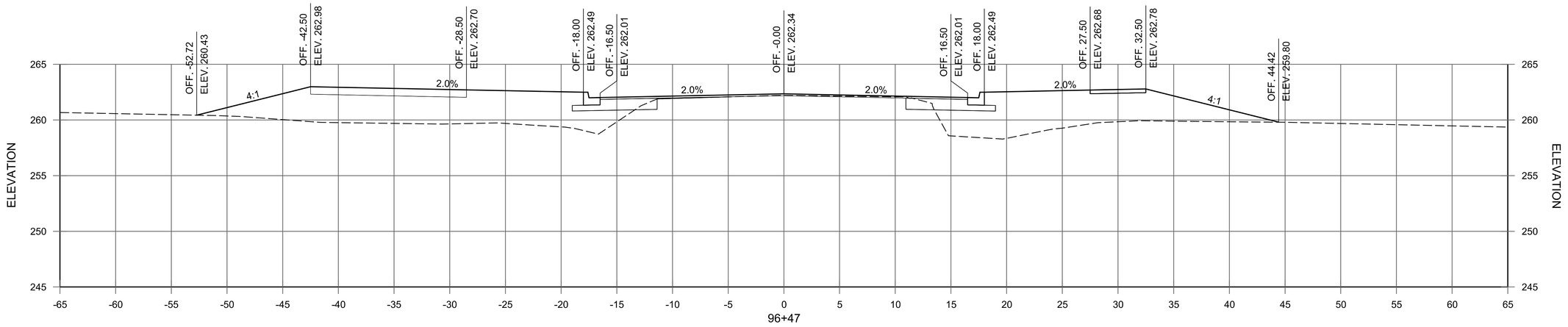
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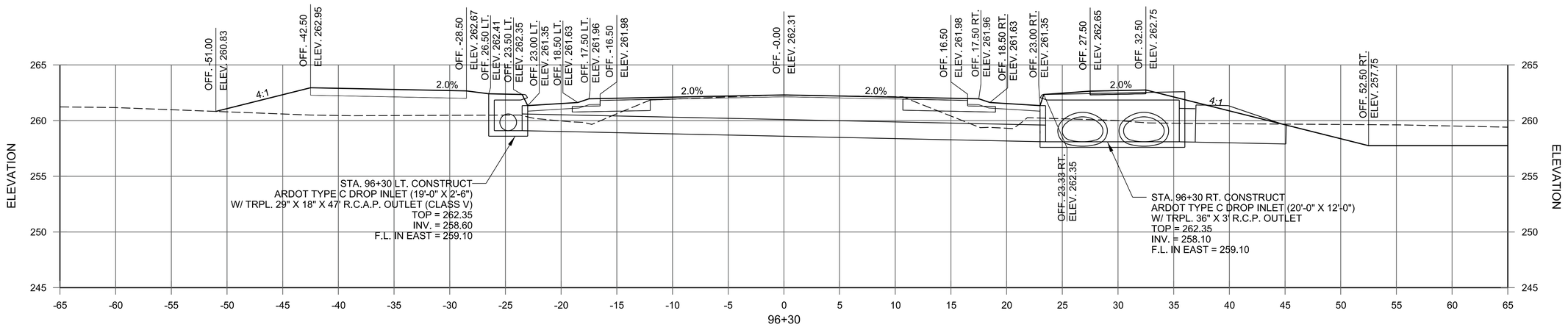
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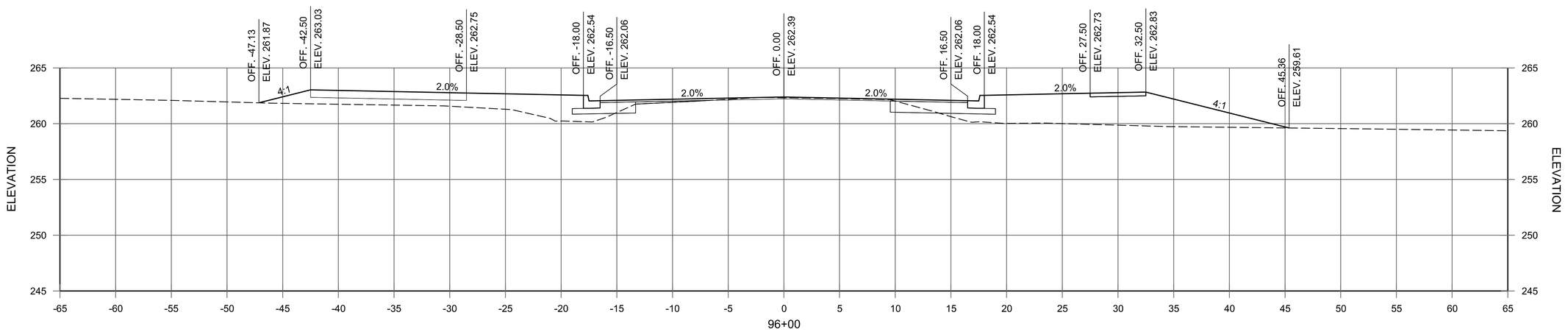
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

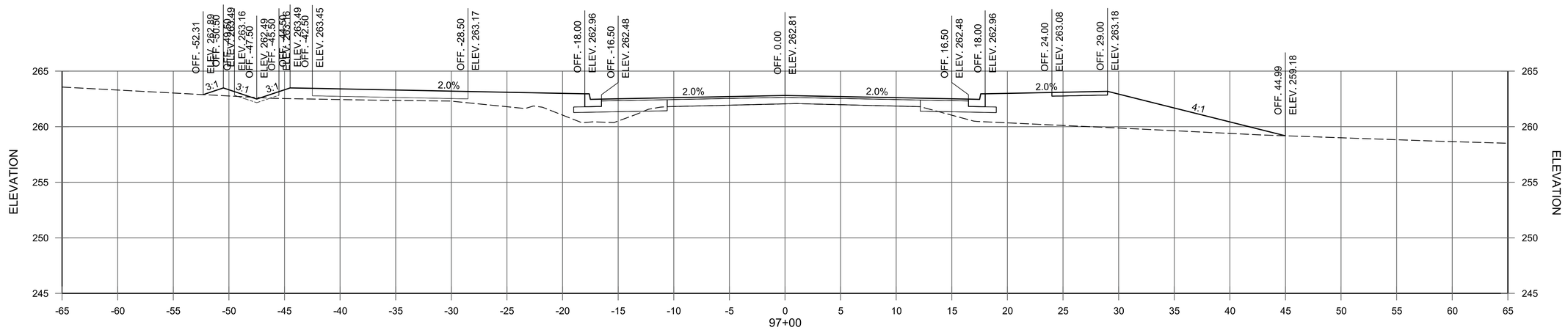
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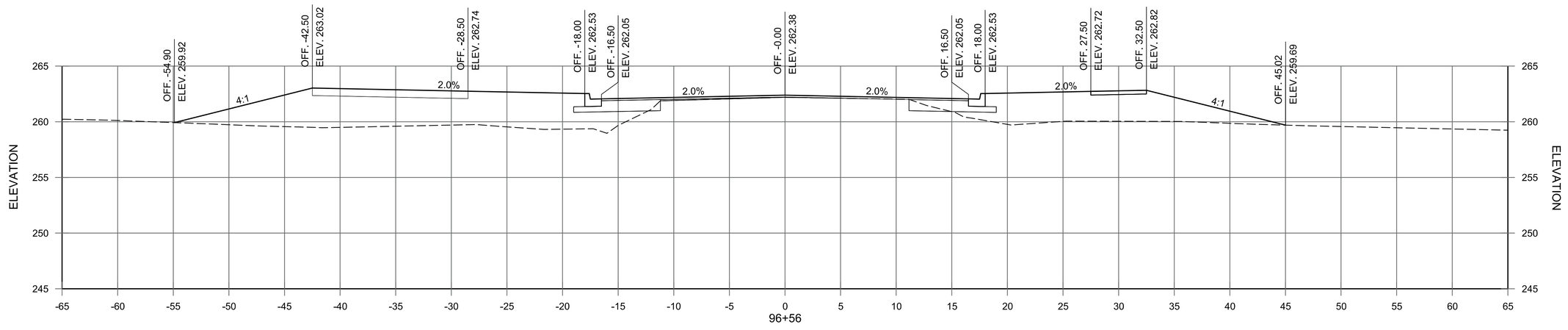
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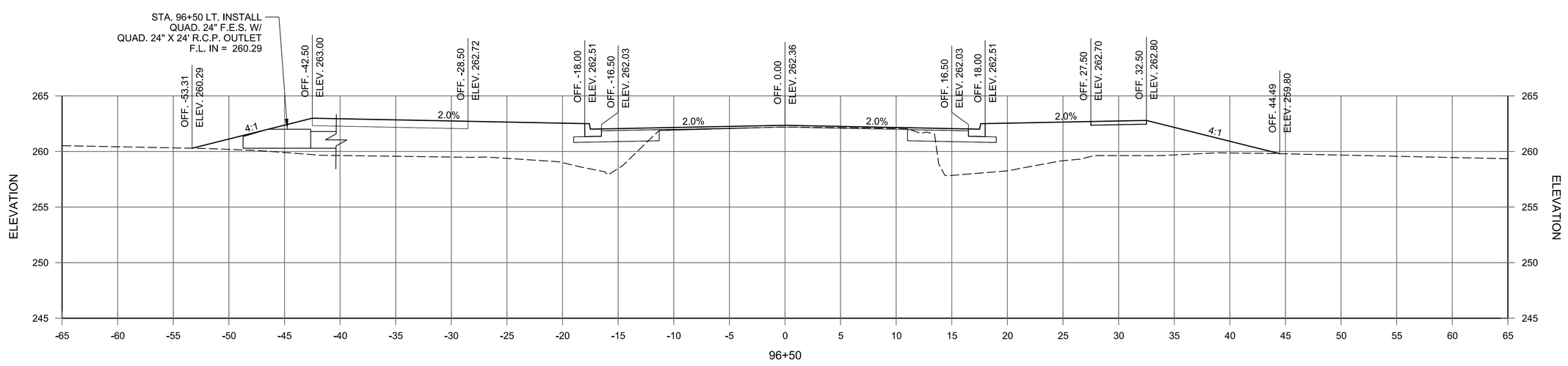
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

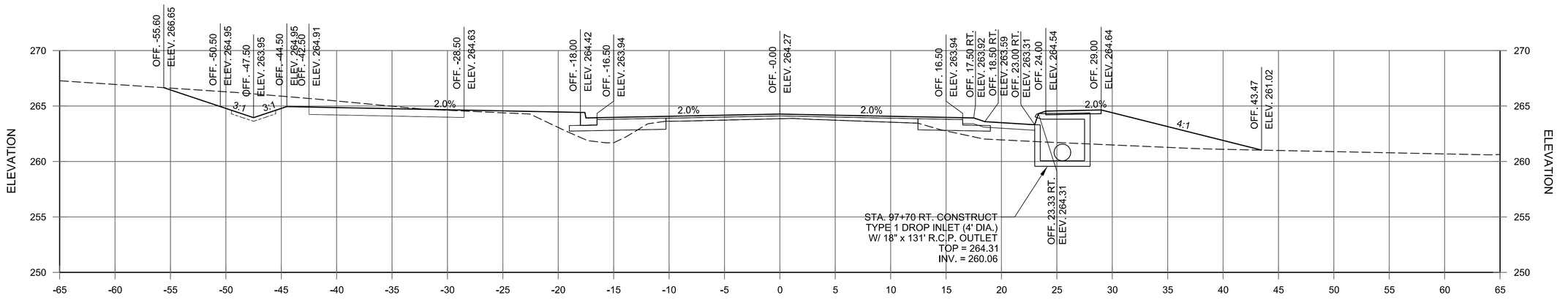
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DATE: JUNE 2023
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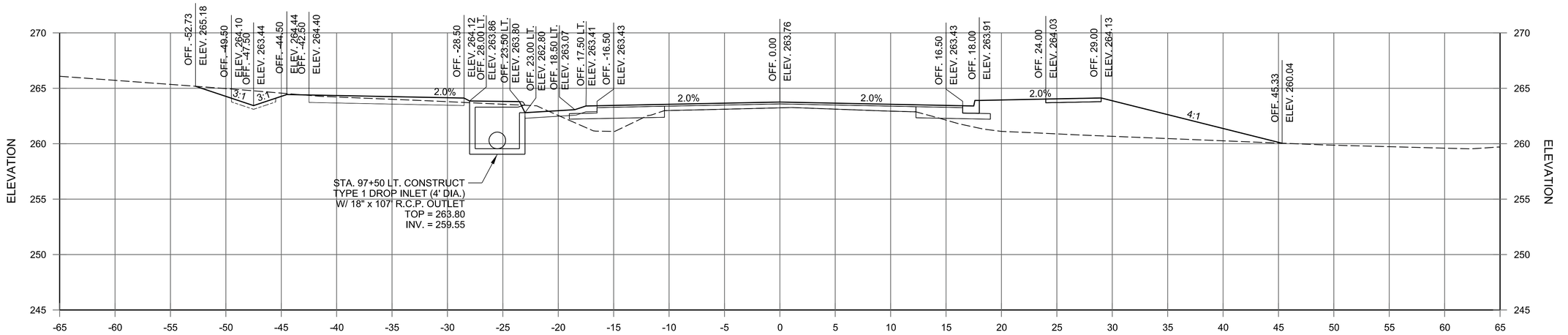
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97+70



97+50

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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

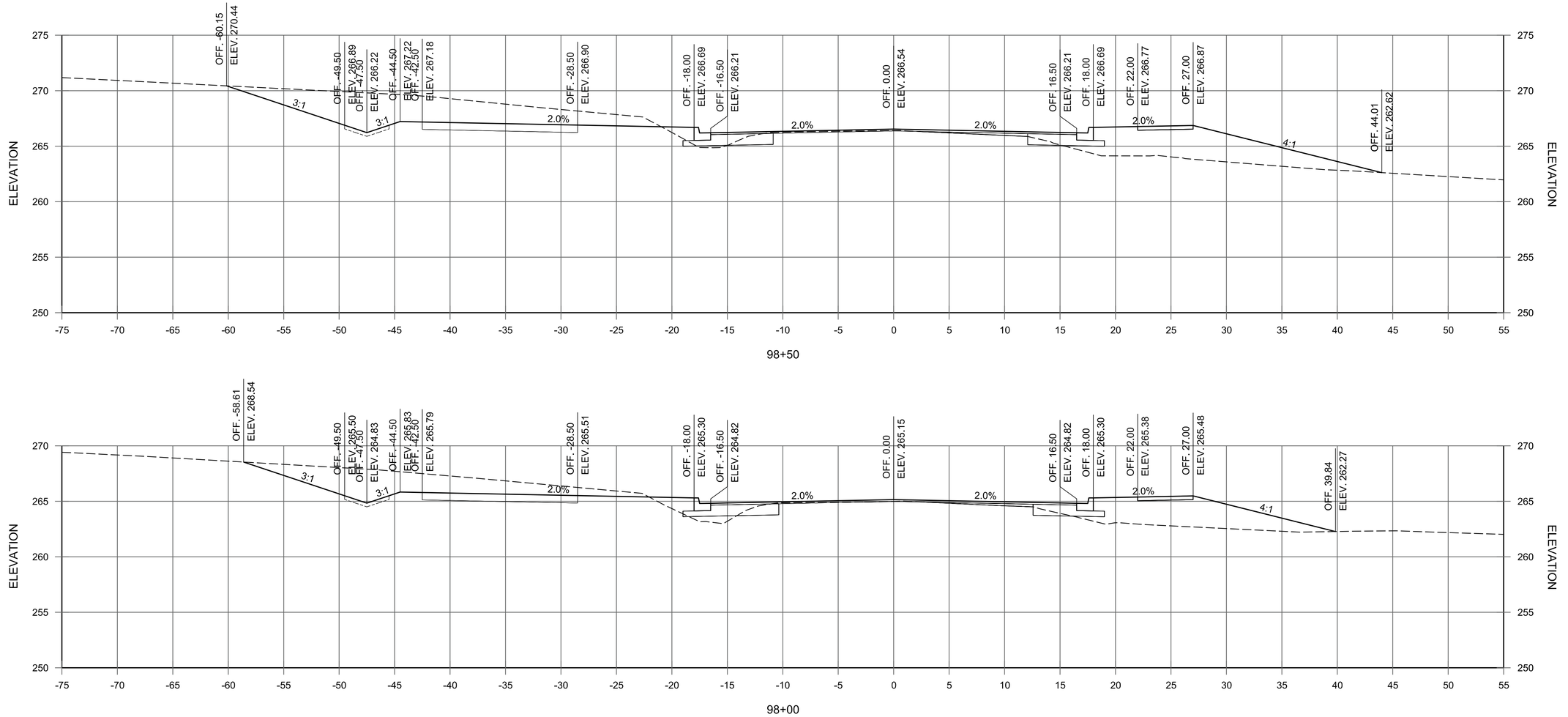
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DRAWN BY: AMW

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DRAWING NUMBER
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

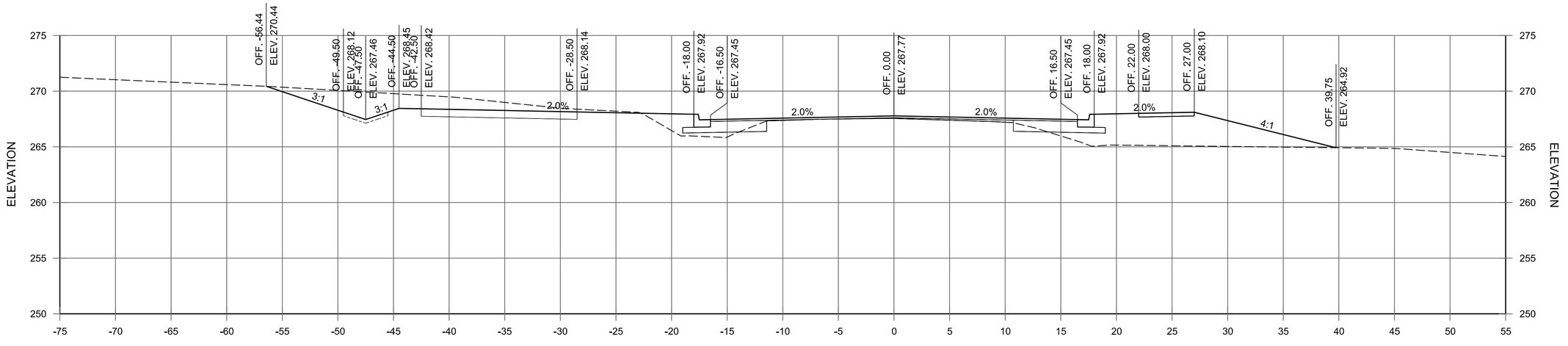
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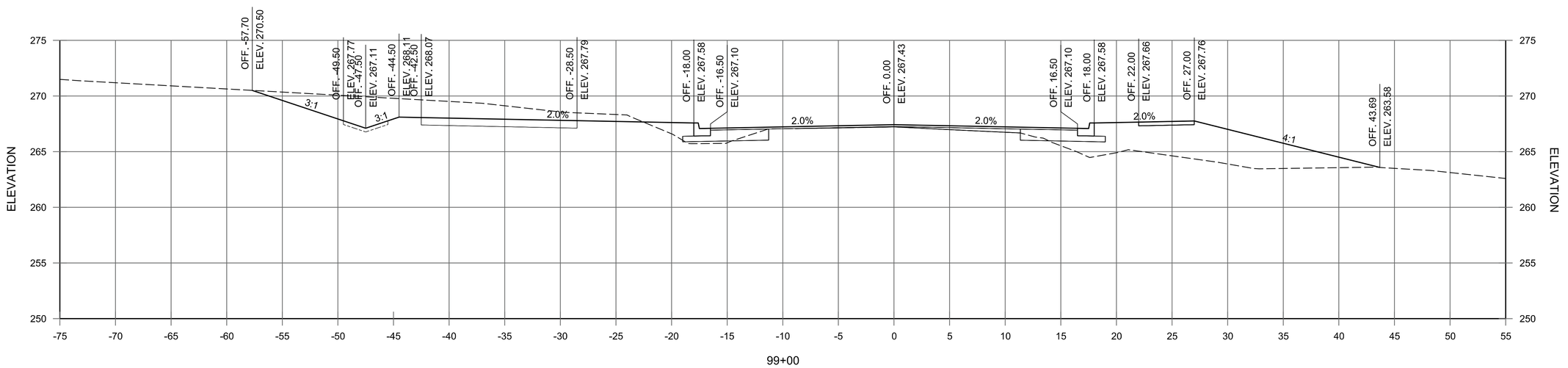
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99+50



99+00

JACKSONVILLE-CATO RD.
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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

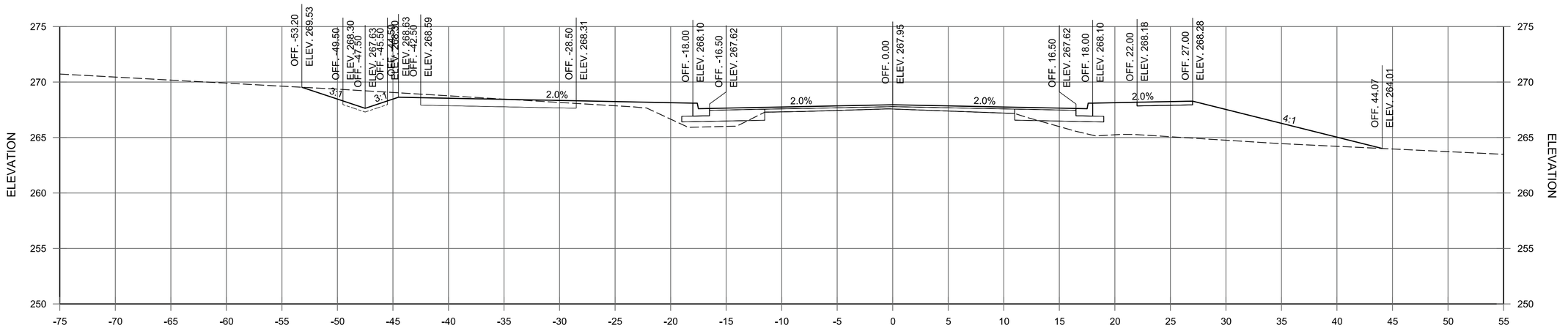
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DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

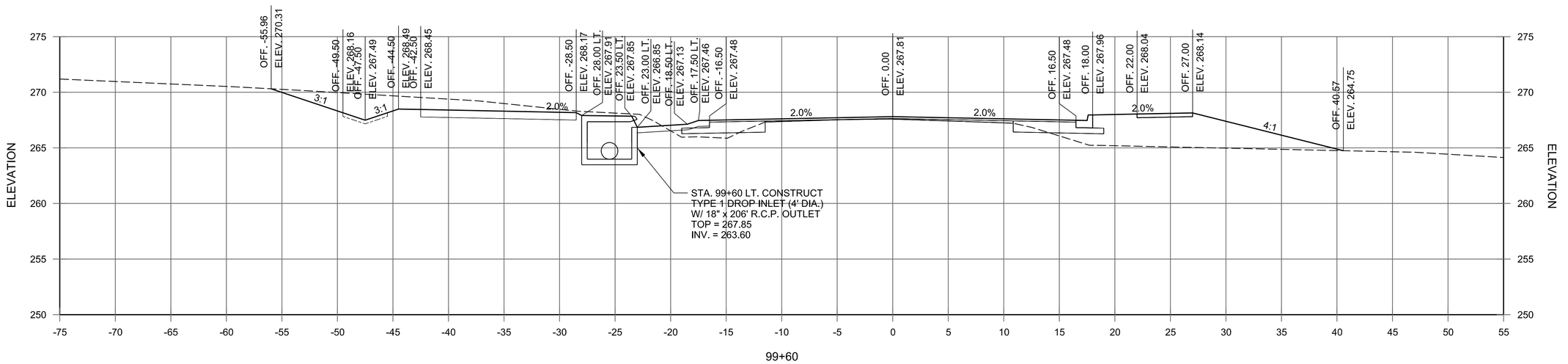
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

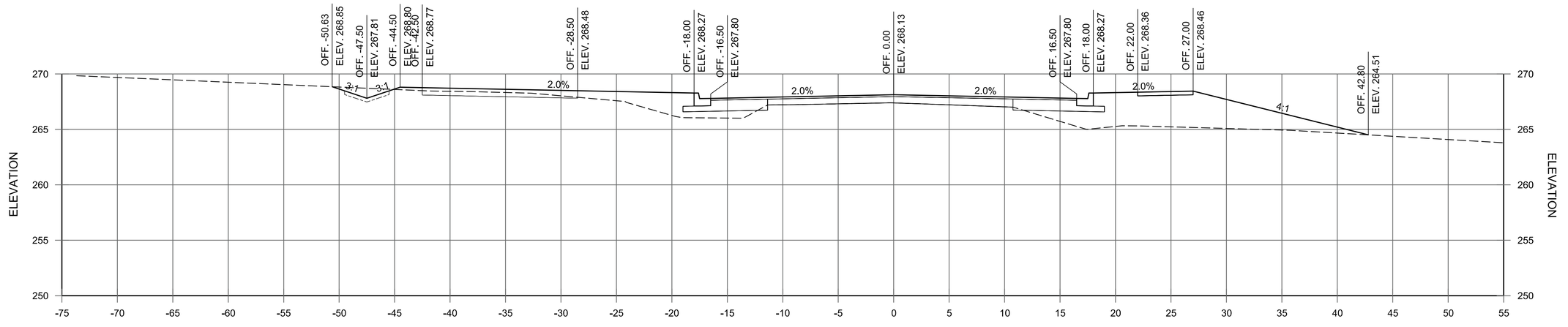
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DATE: JUNE 2023
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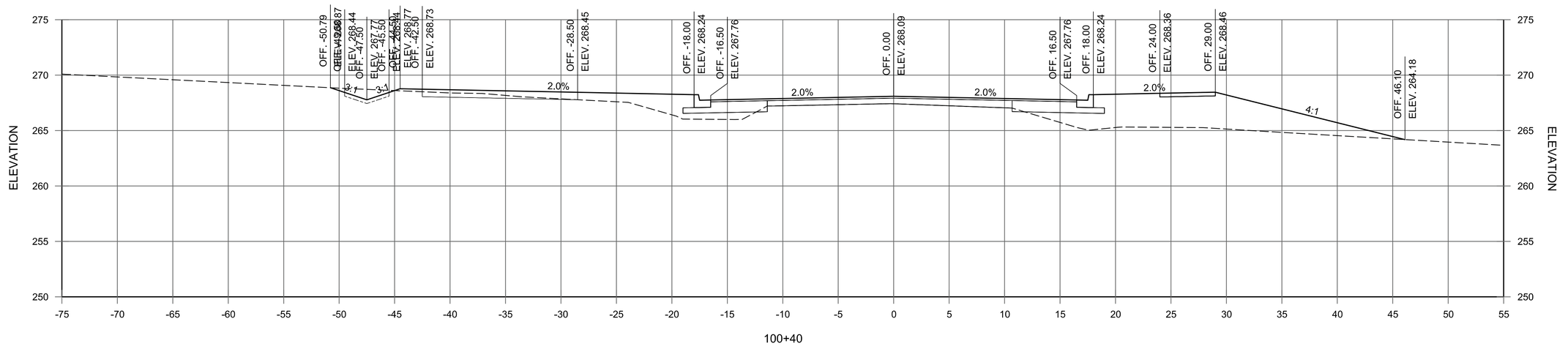
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100+50



100+40

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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

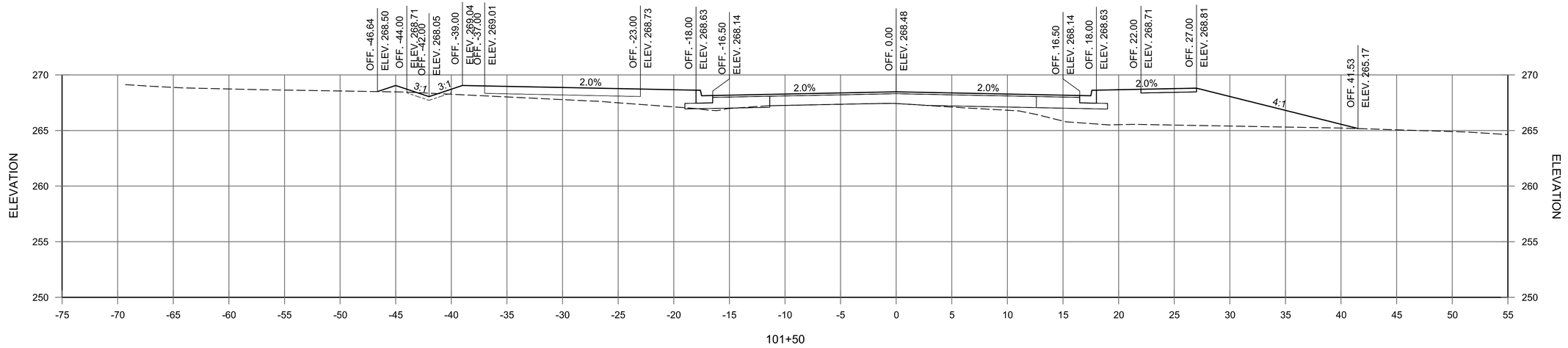
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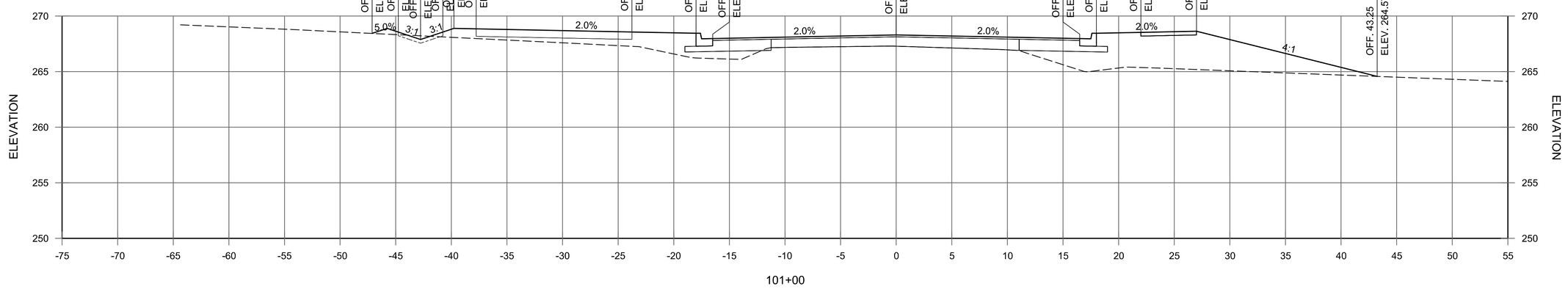
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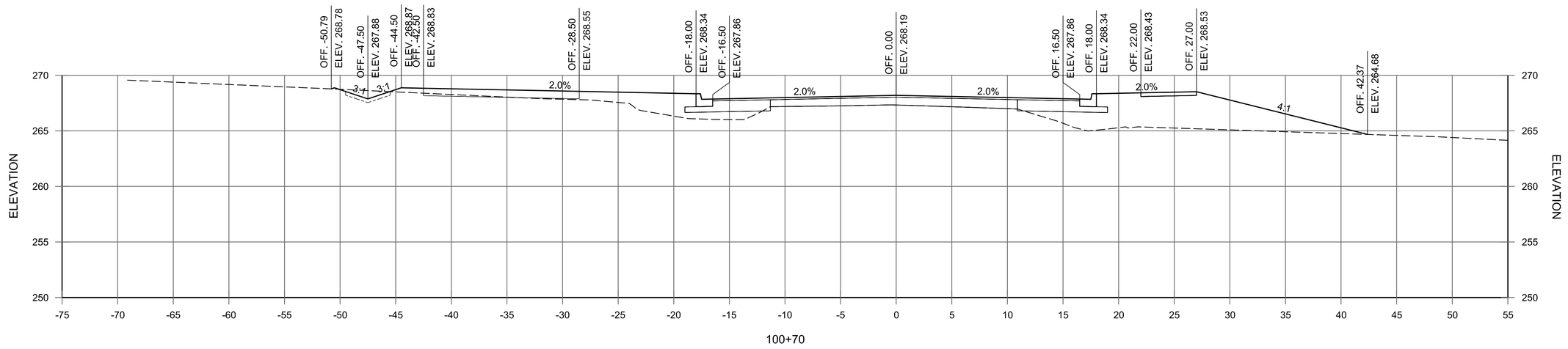
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

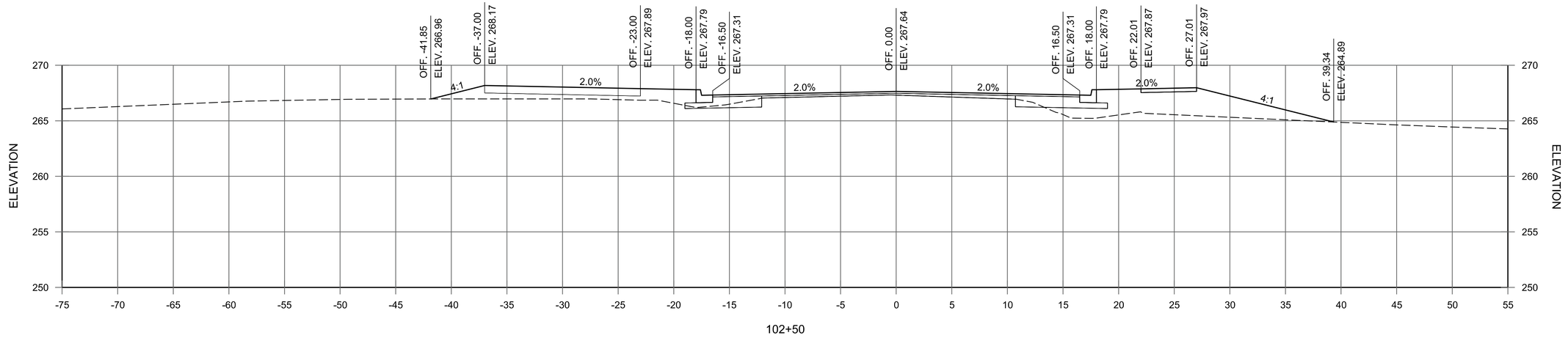
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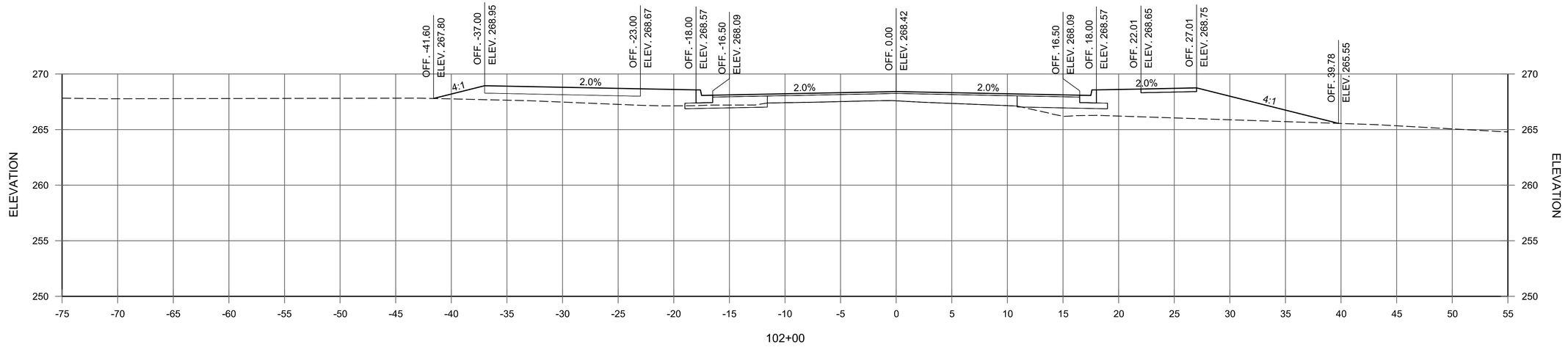
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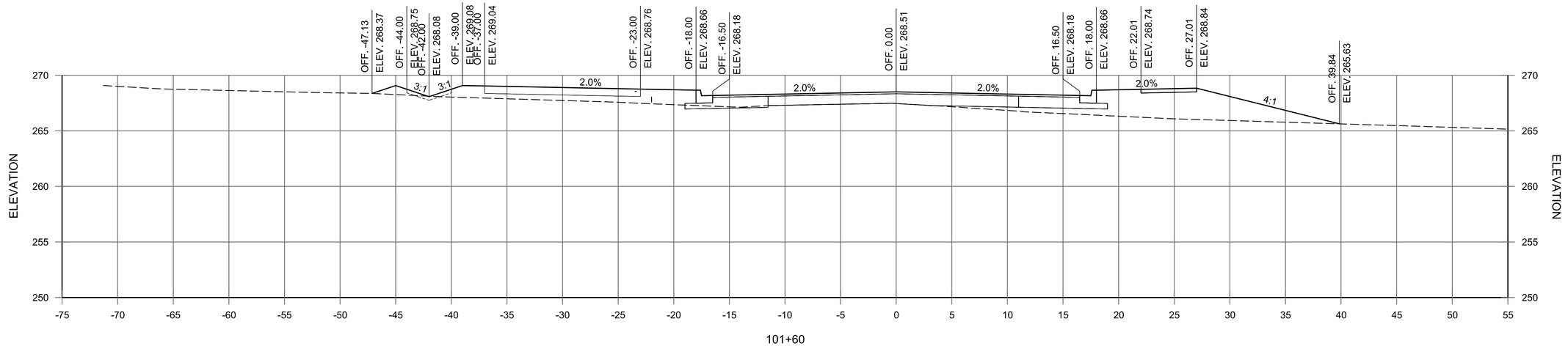
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

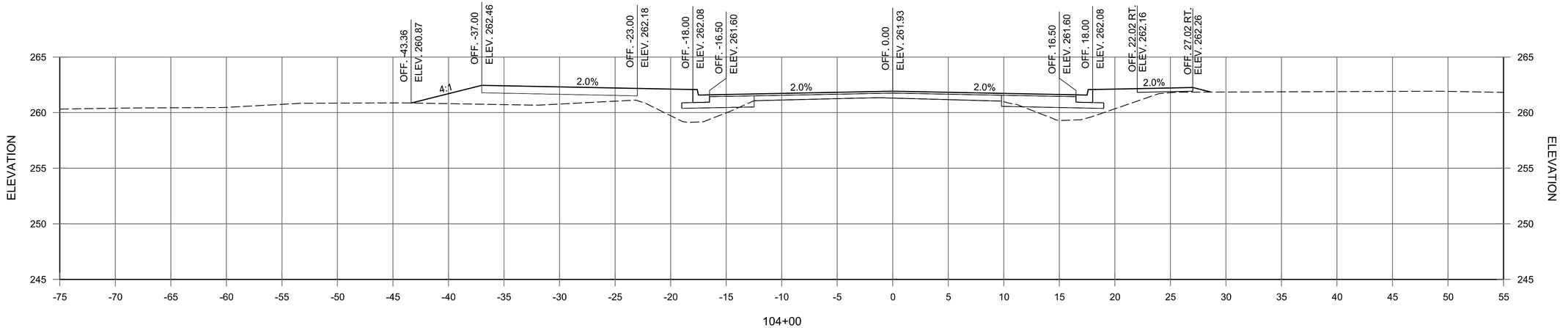
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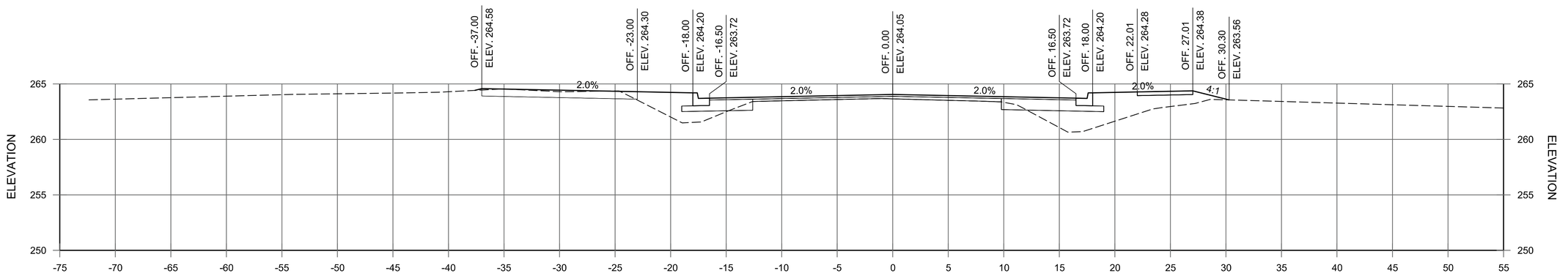
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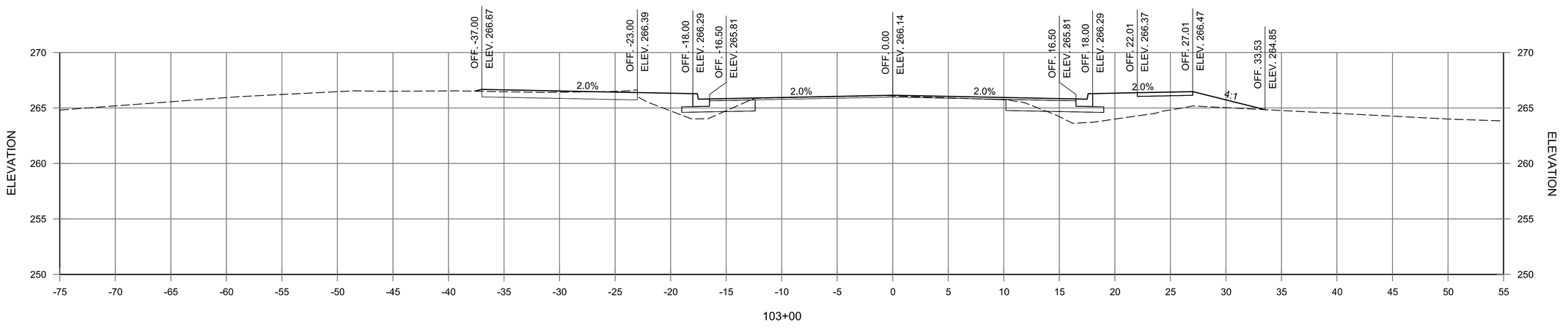
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
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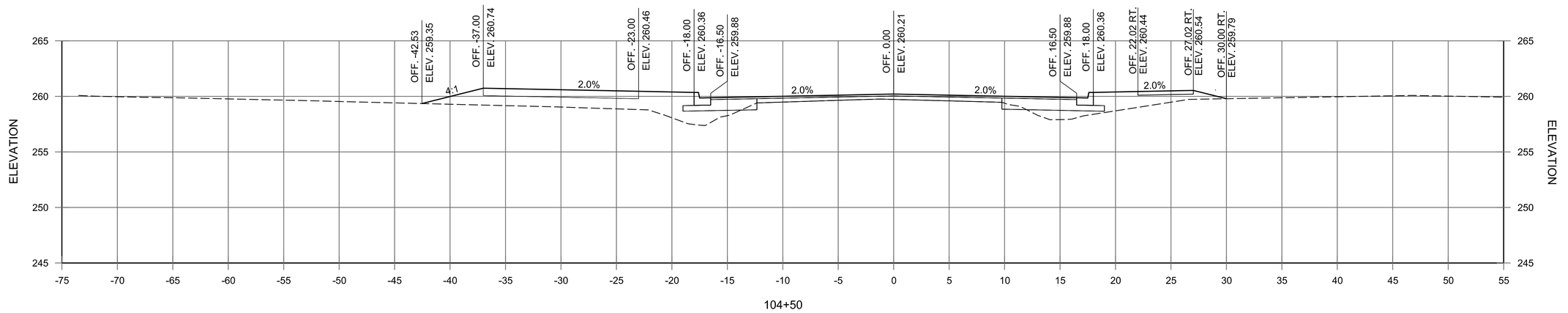
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

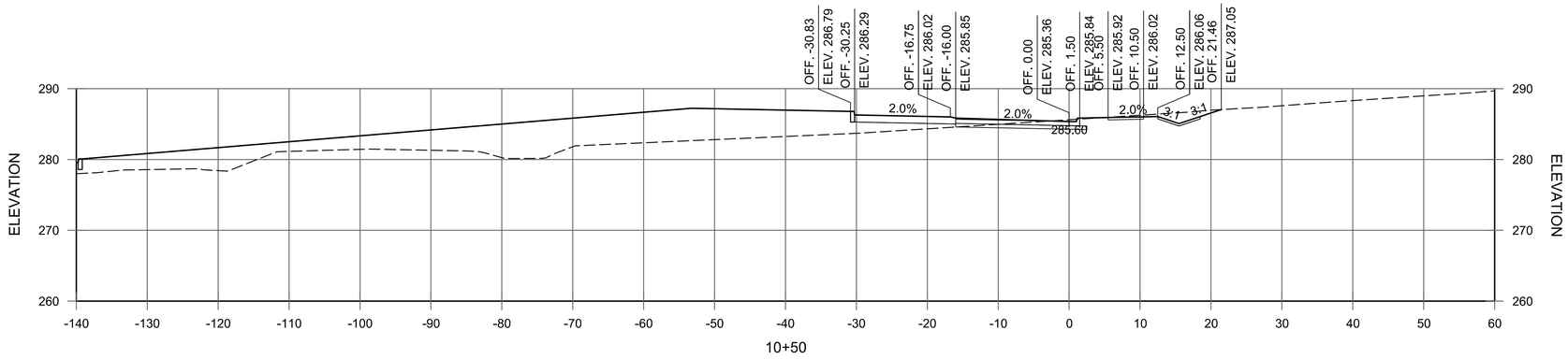
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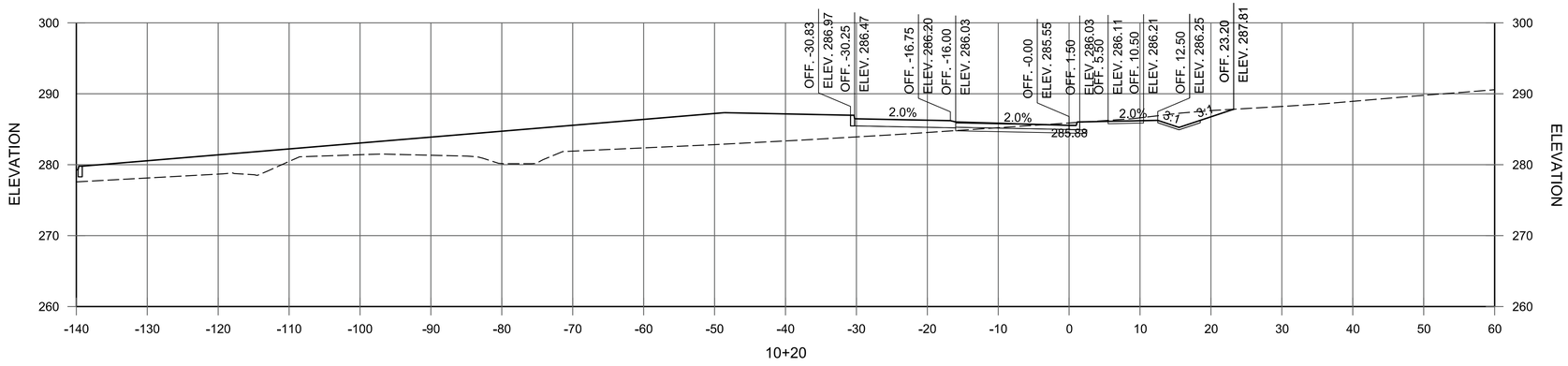
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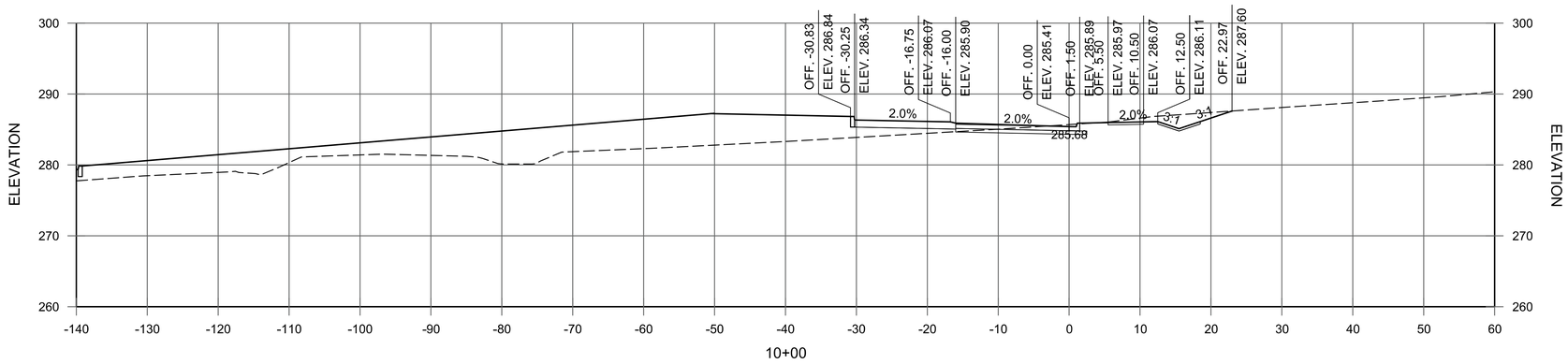
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PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

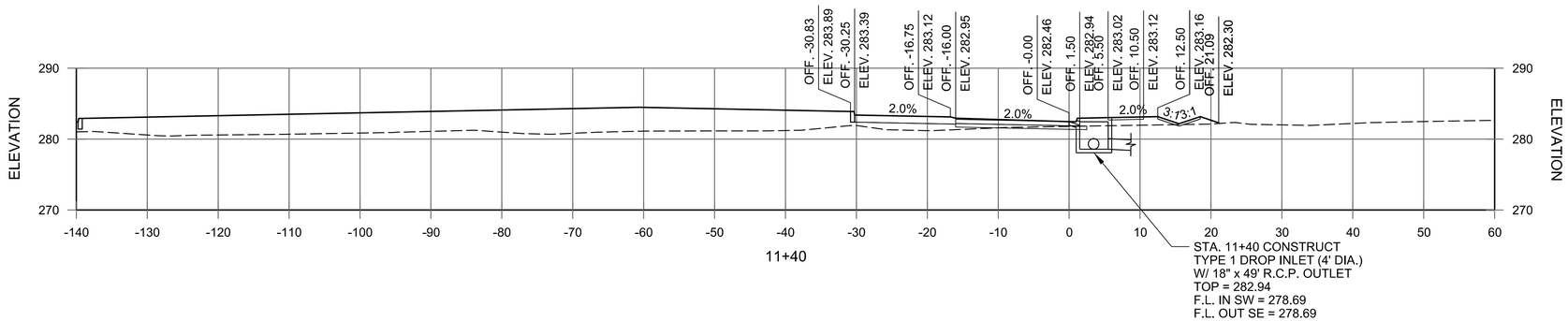
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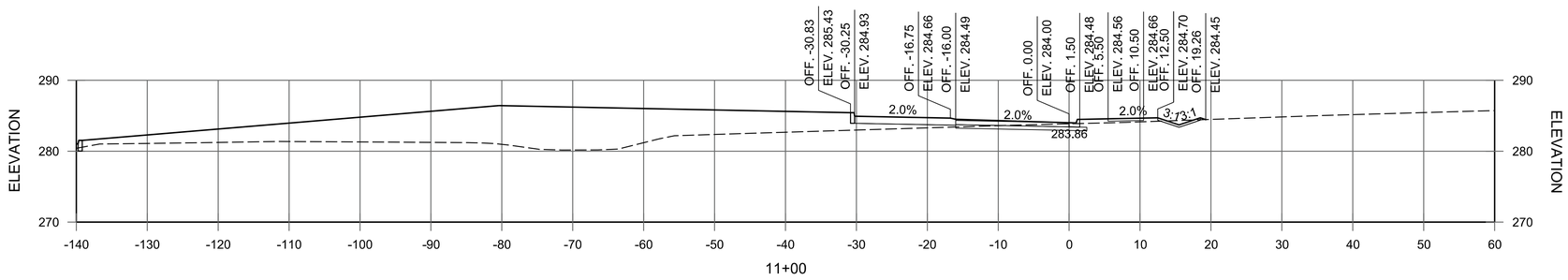
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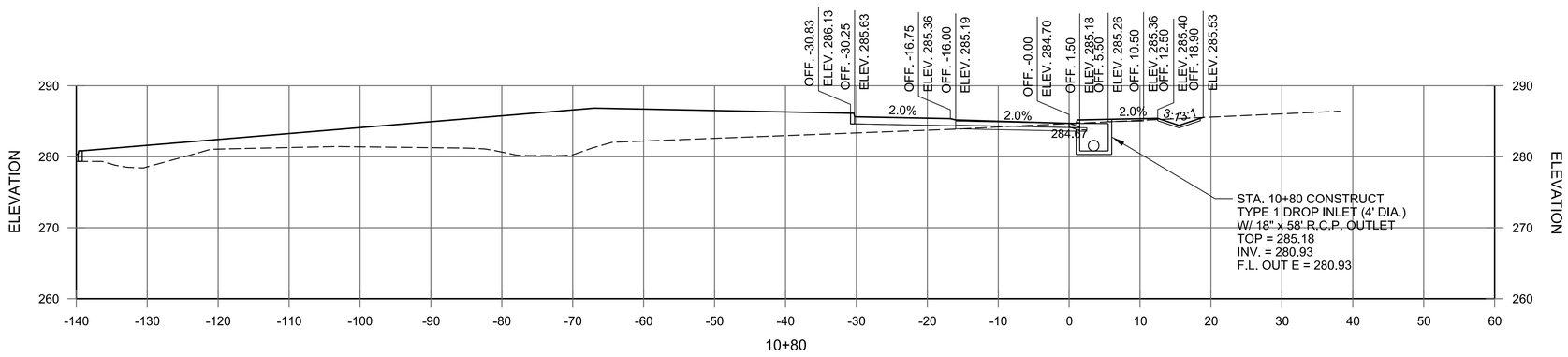
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PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

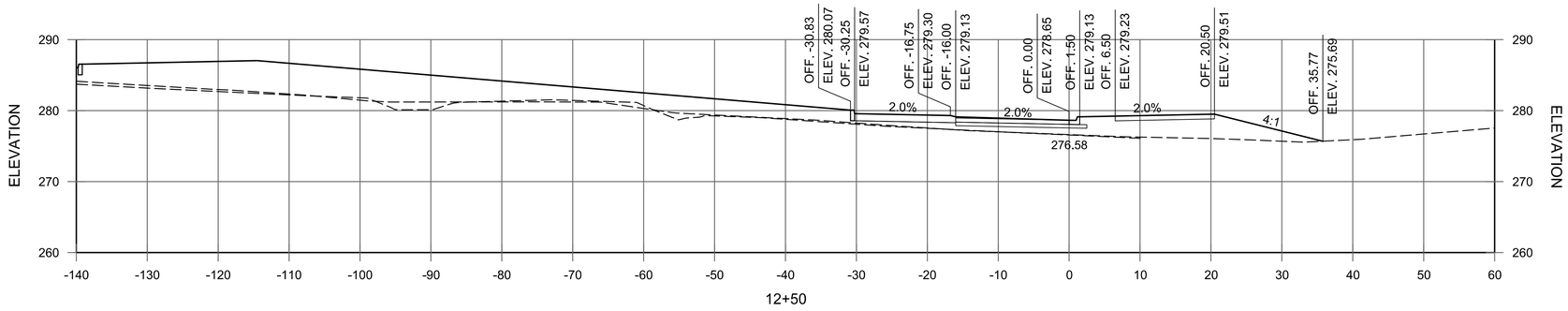
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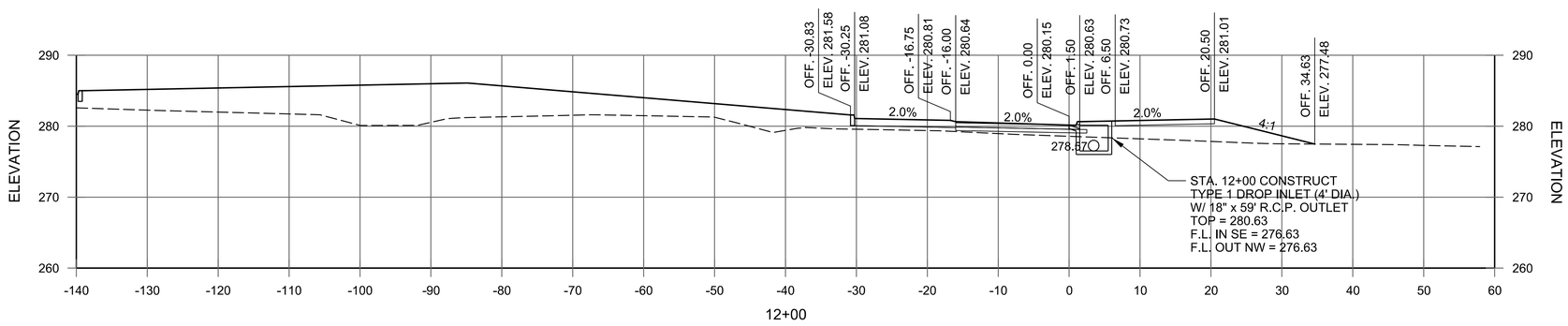
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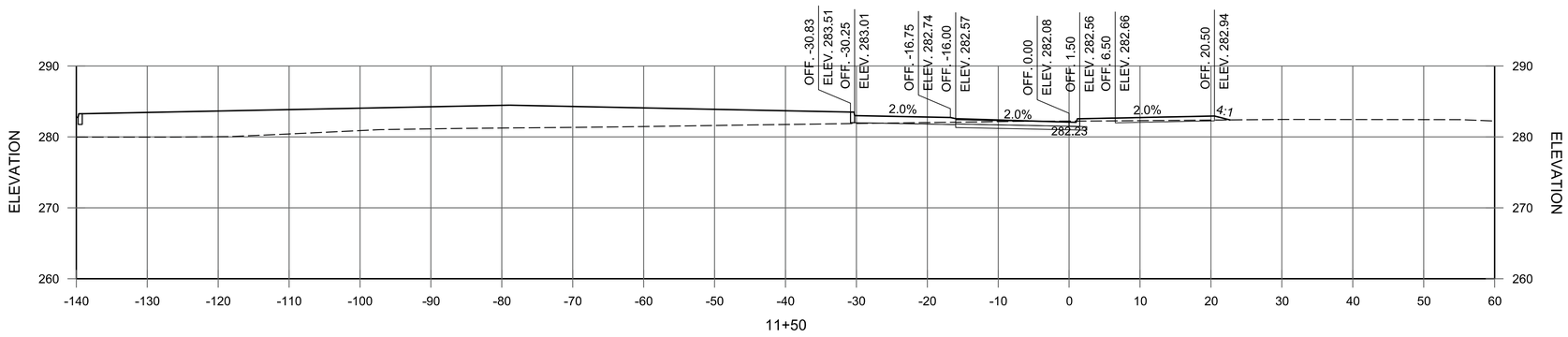
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PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

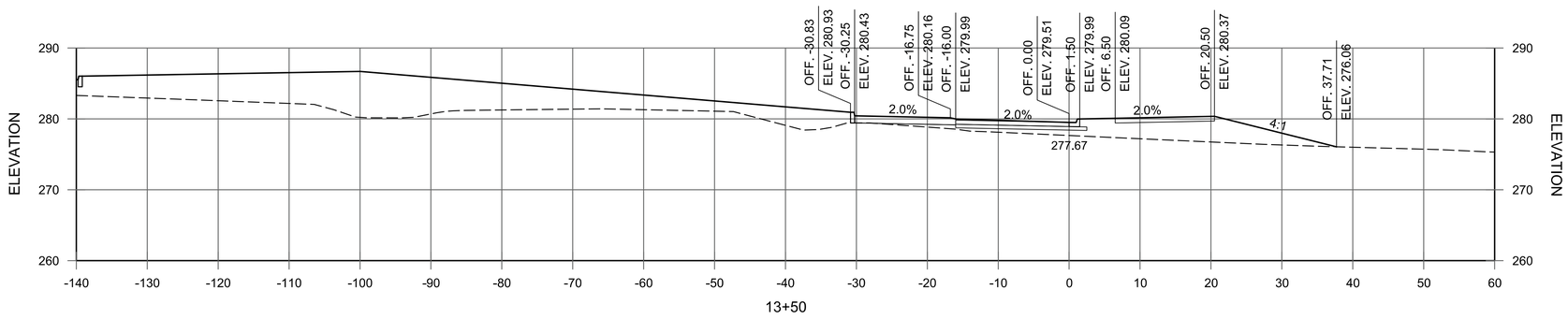
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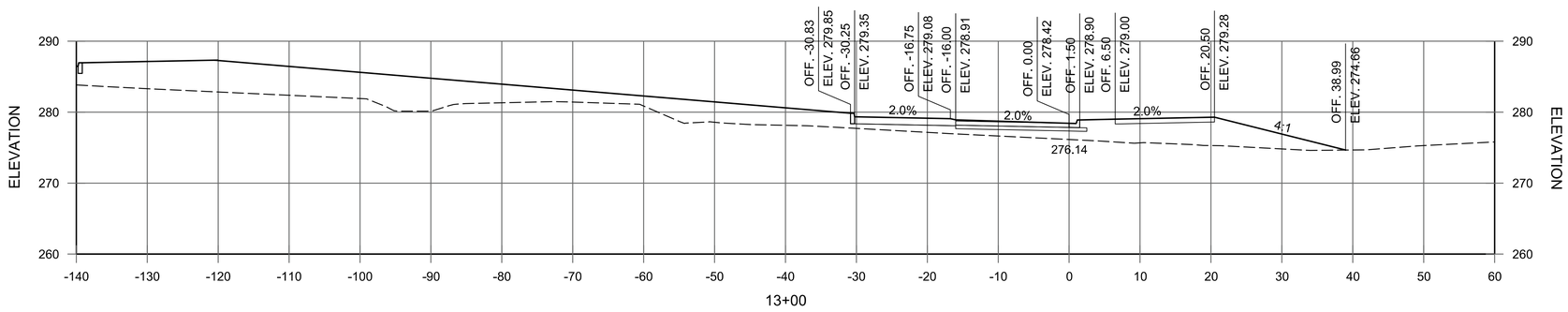
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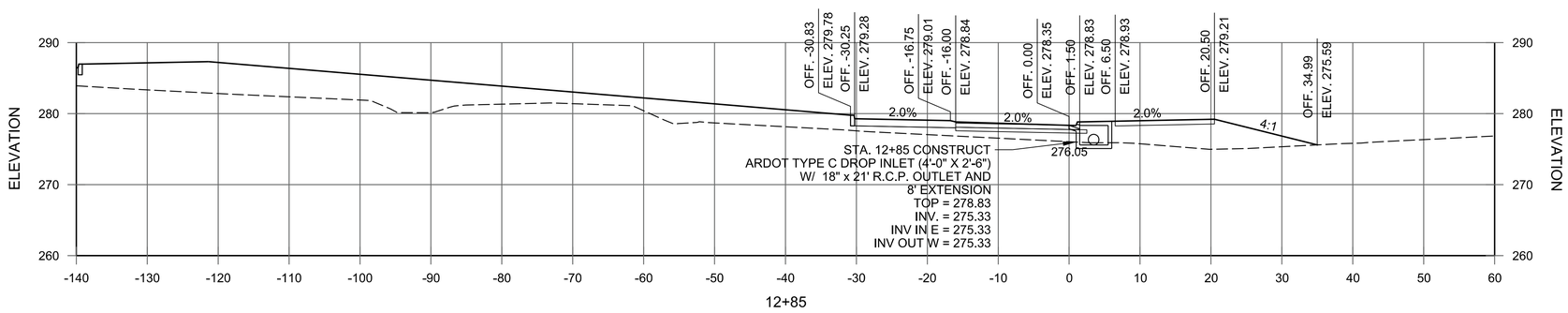
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IMPROVEMENTS - PHASE I

CROSS SECTIONS

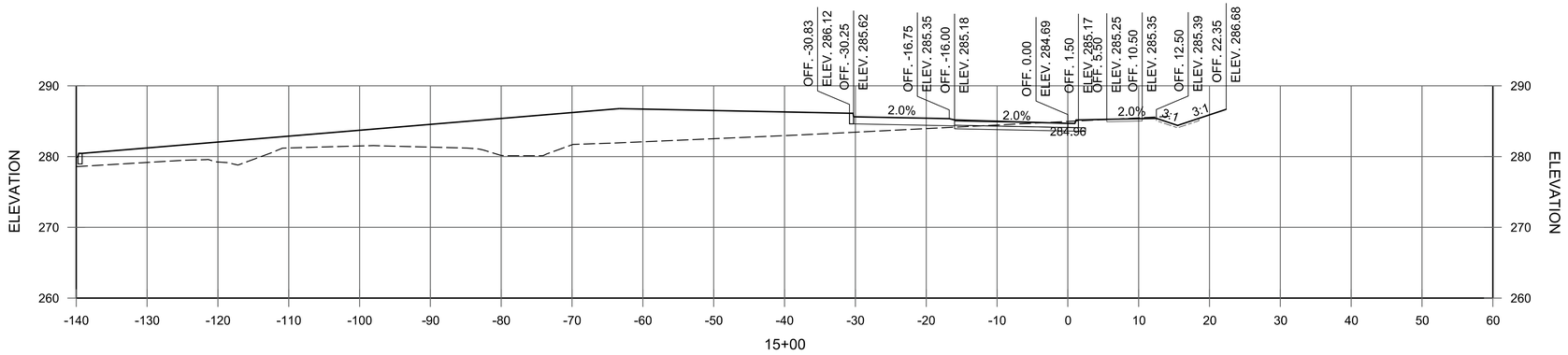
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

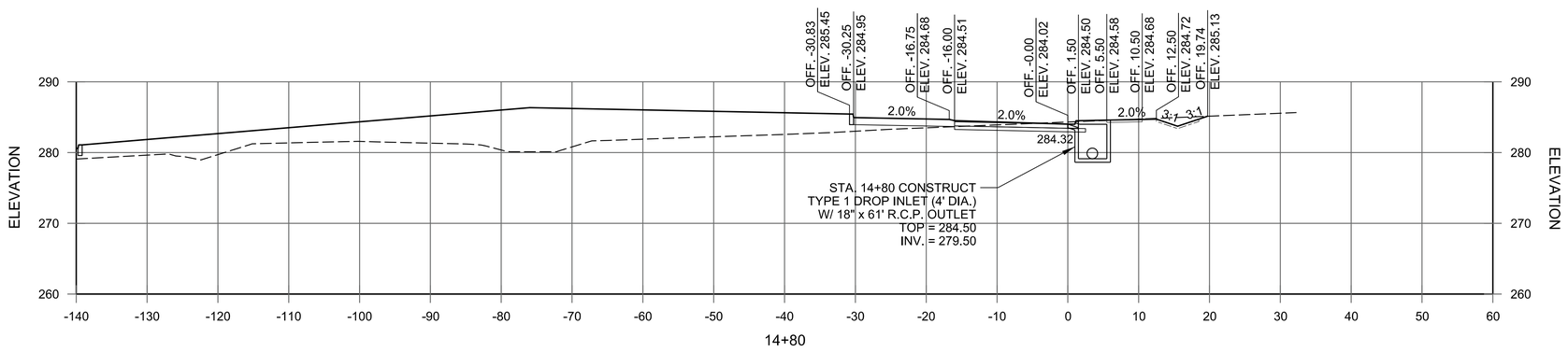
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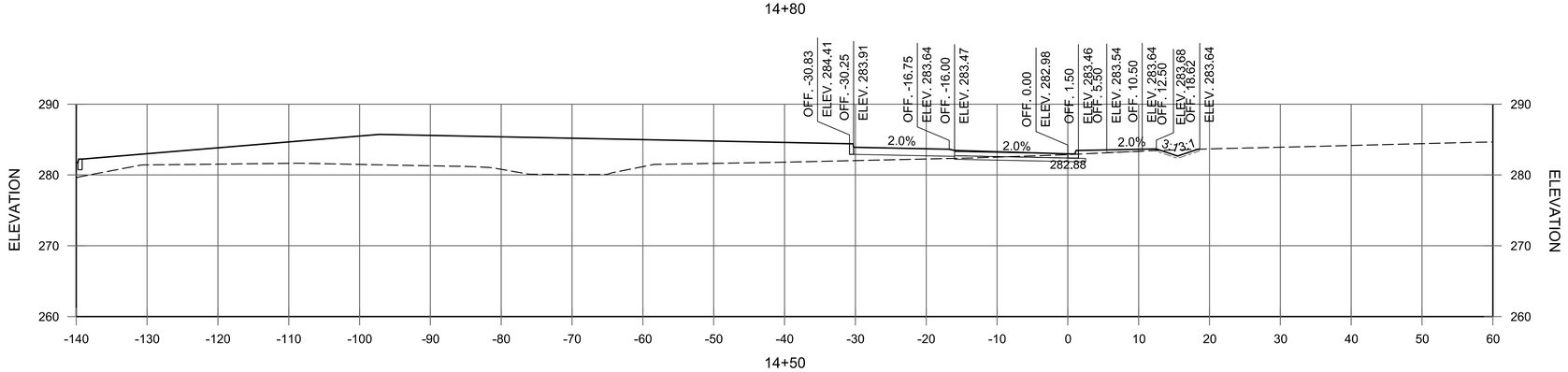
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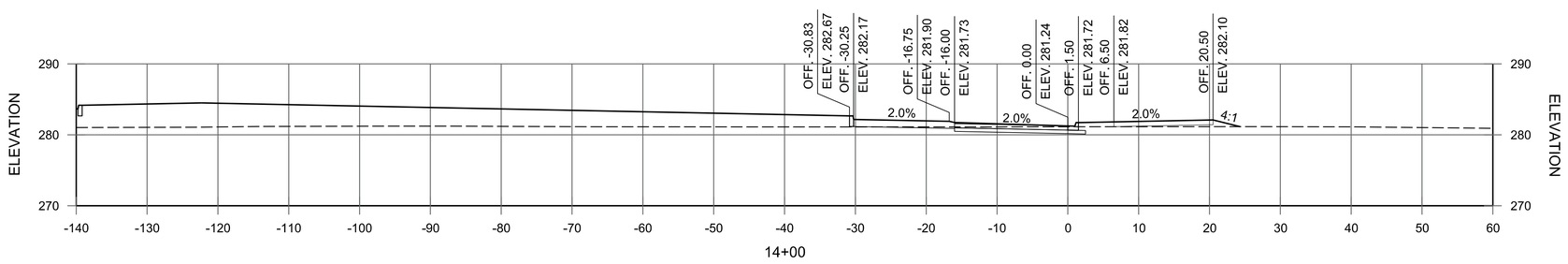
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ROUNDABOUT 1
STA. 14+00 TO STA. 15+00

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REV.	DATE	DESCRIPTION	BY
1	08/07/2023	REISSUED SHEET-UPDATED CROSS SECTIONS	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

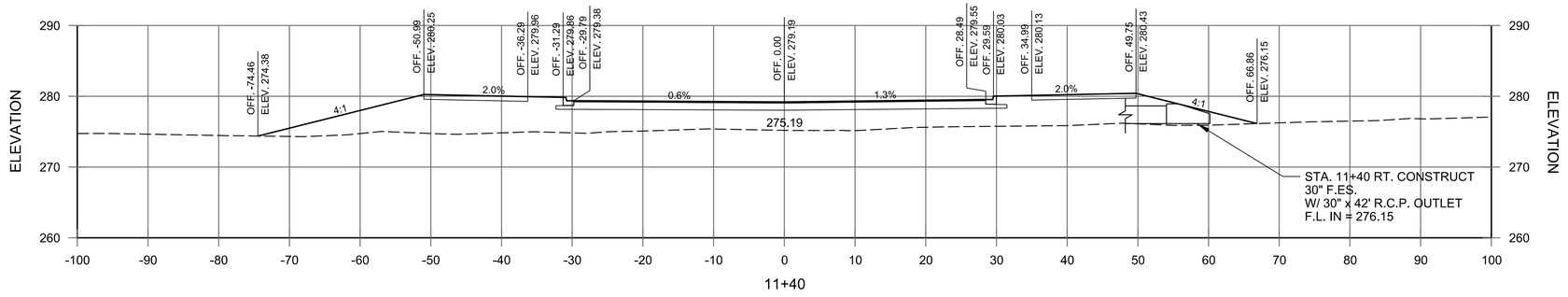
JOB NO.: 18017190
DATE: JUNE 2023
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DRAWN BY: AMW

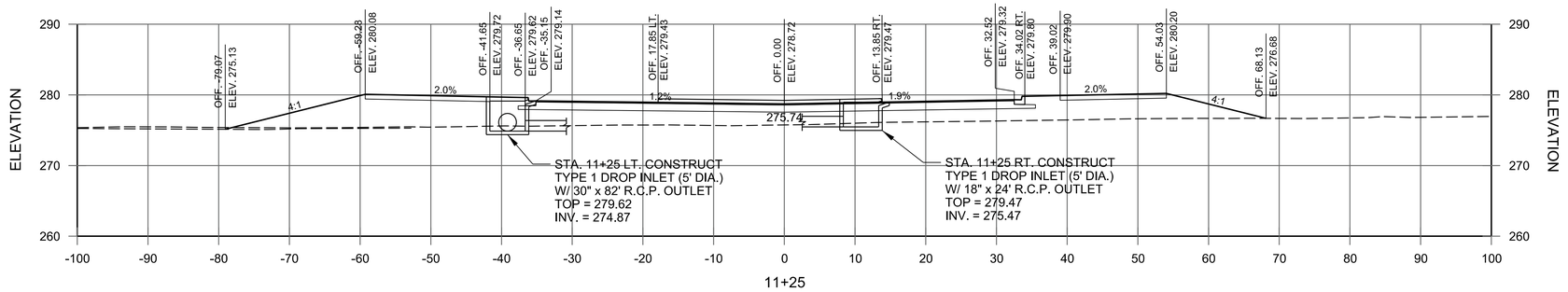
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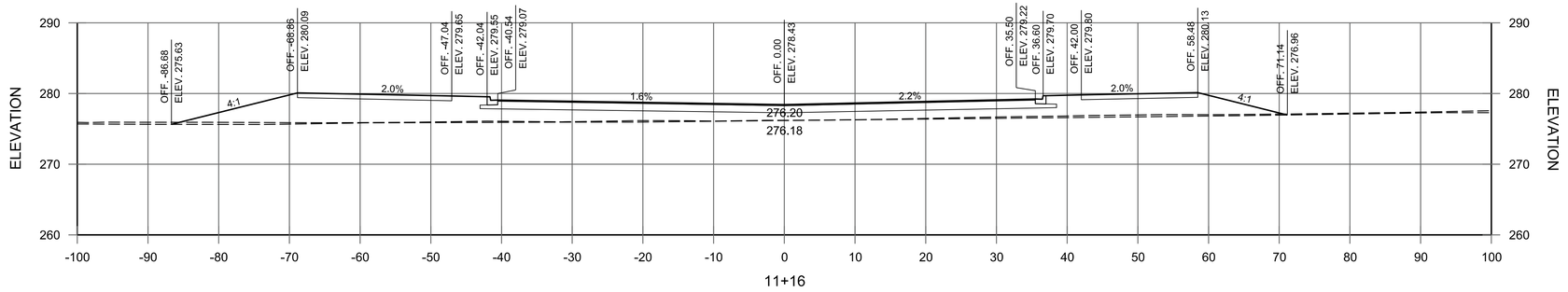
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SUBDIVISION SIDE RD. 1
STA. 11+16 TO STA. 11+40

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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

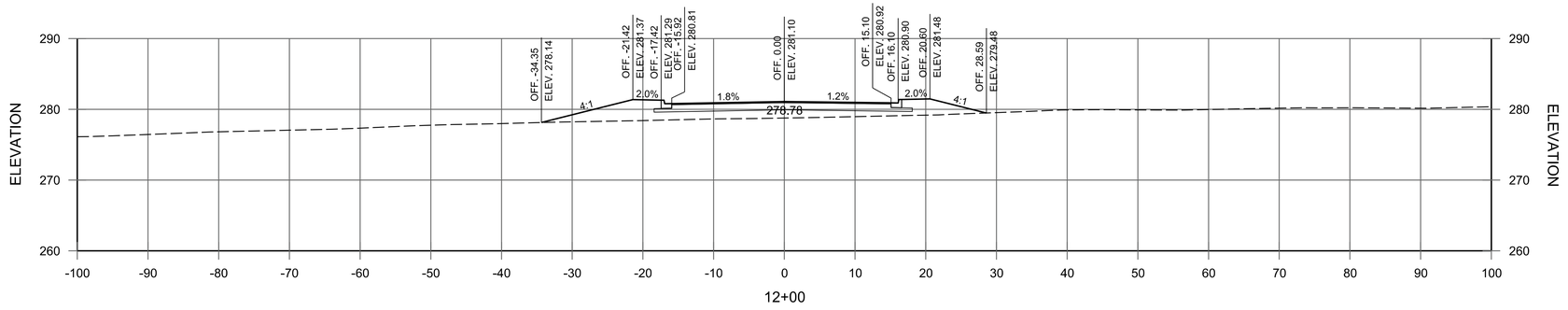
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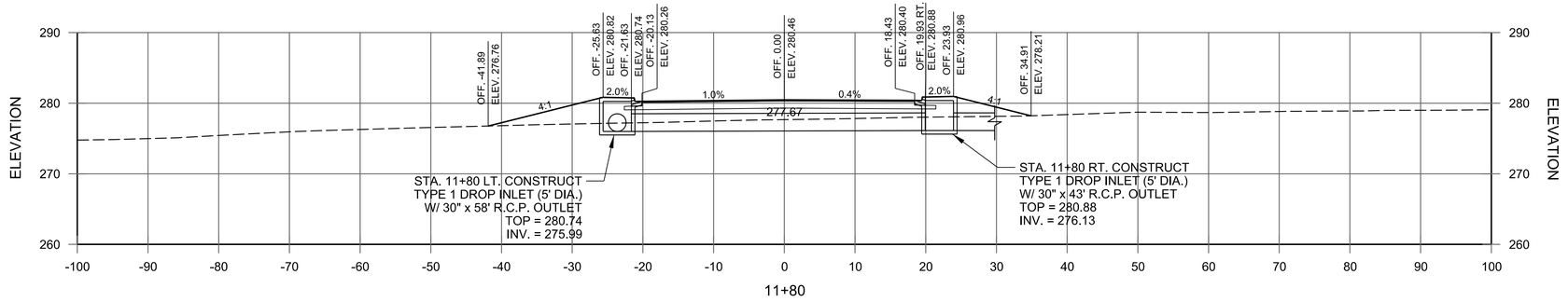
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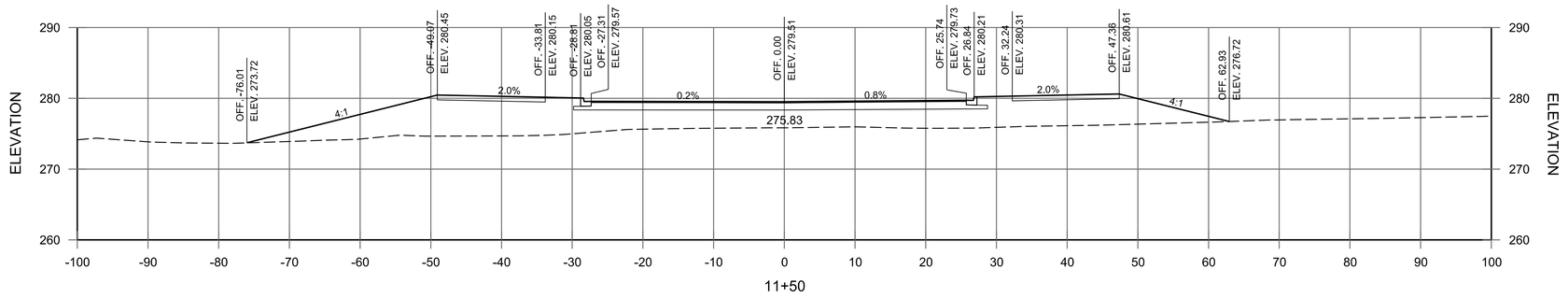
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SUBDIVISION SIDE RD. 1
STA. 11+50 TO STA. 12+00

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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

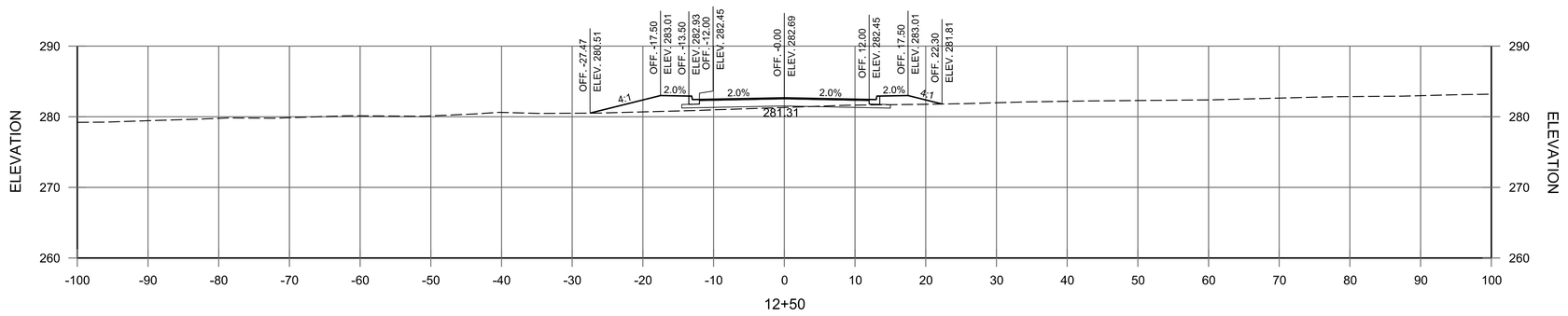
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DRAWN BY: DRAWN

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SUBDIVISION SIDE RD. 1
STA. 12+50 TO STA. 12+50

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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

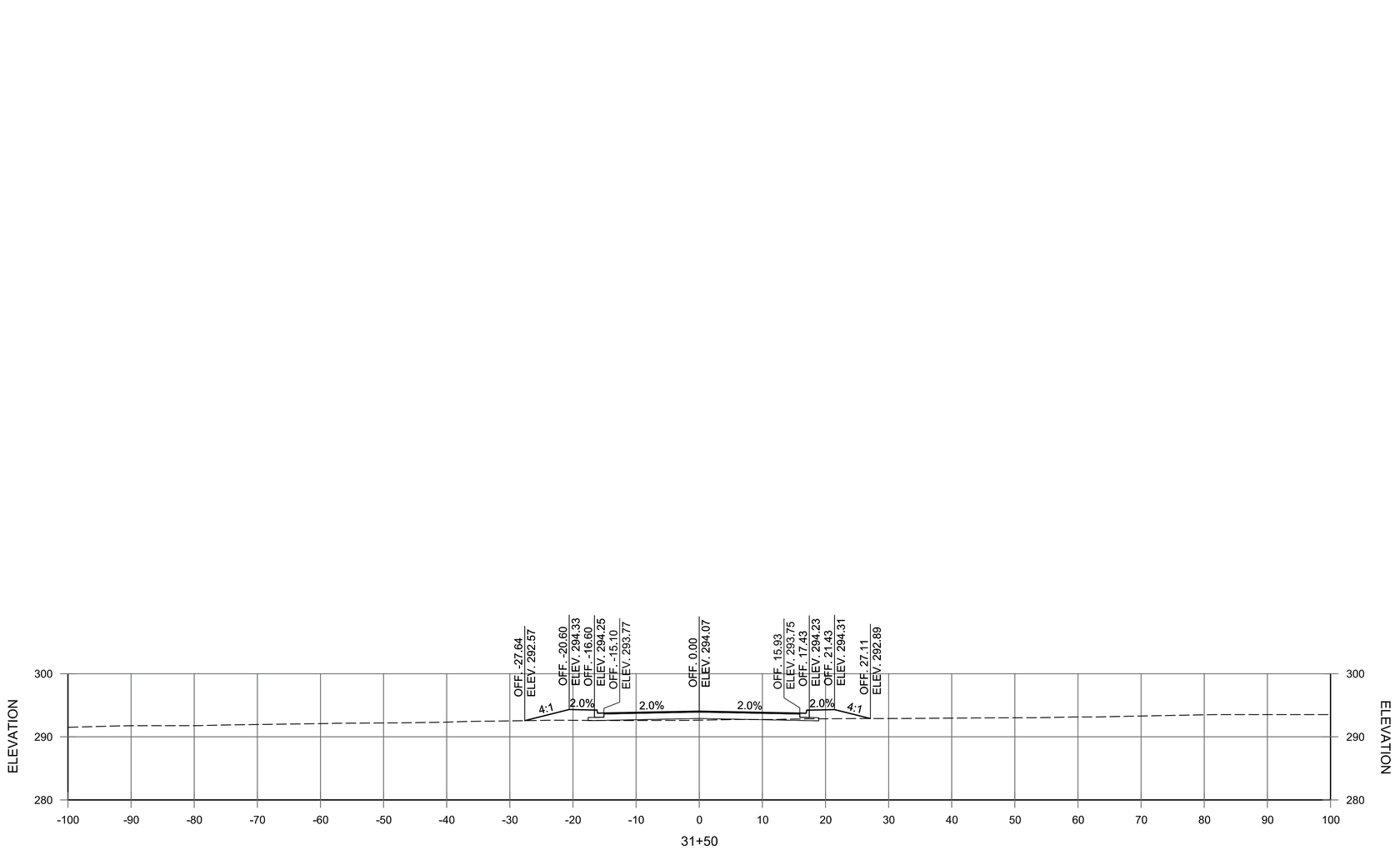
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DRAWING NUMBER
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SUBDIVISION SIDEROAD 3
STA. 31+00 TO STA. 31+50

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REV.	DATE	DESCRIPTION	BY
1	03/16/22	ADDED SUB. SIDEROAD 3 CROSS SECTIONS	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

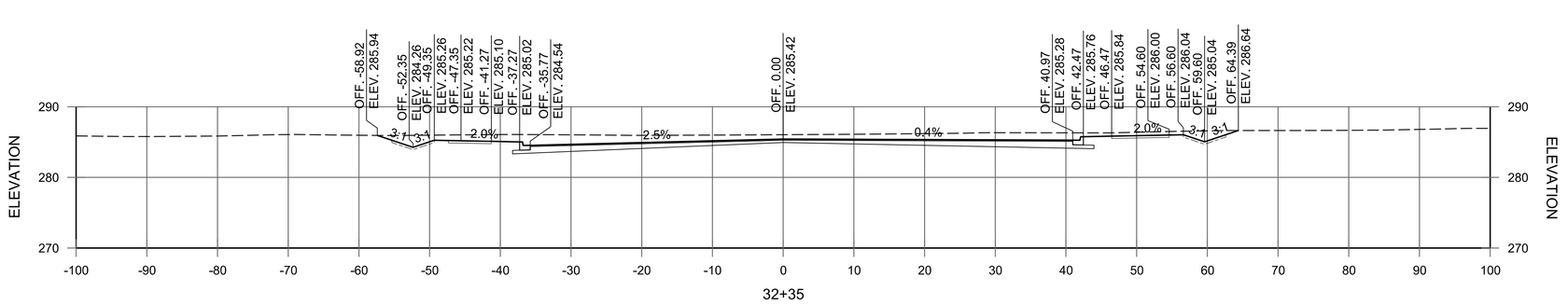
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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SUBDIVISION SIDEROAD 3
STA. 32+00 TO STA. 32+35

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REV.	DATE	DESCRIPTION	BY
1	03/16/22	ADDED SUB. SIDEROAD 3 CROSS SECTIONS	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

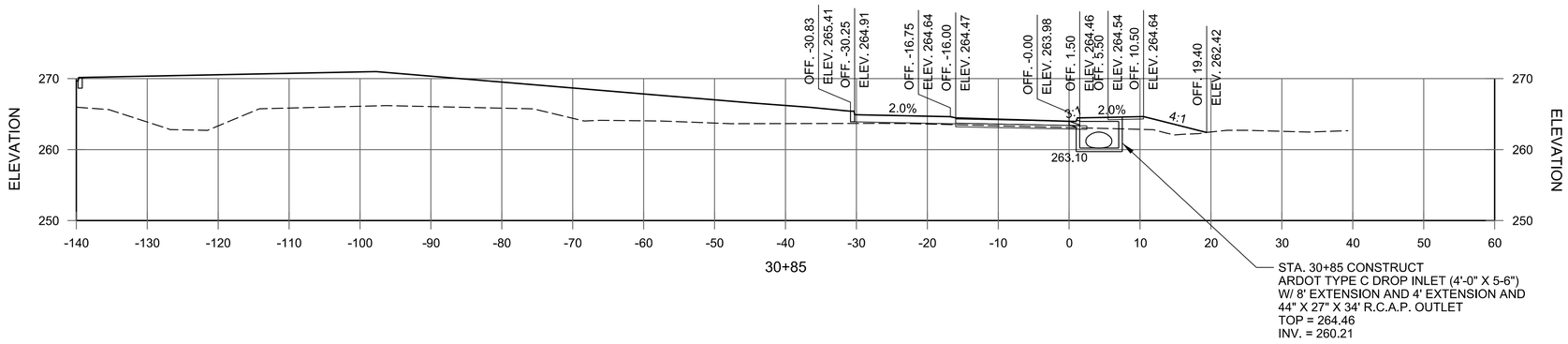
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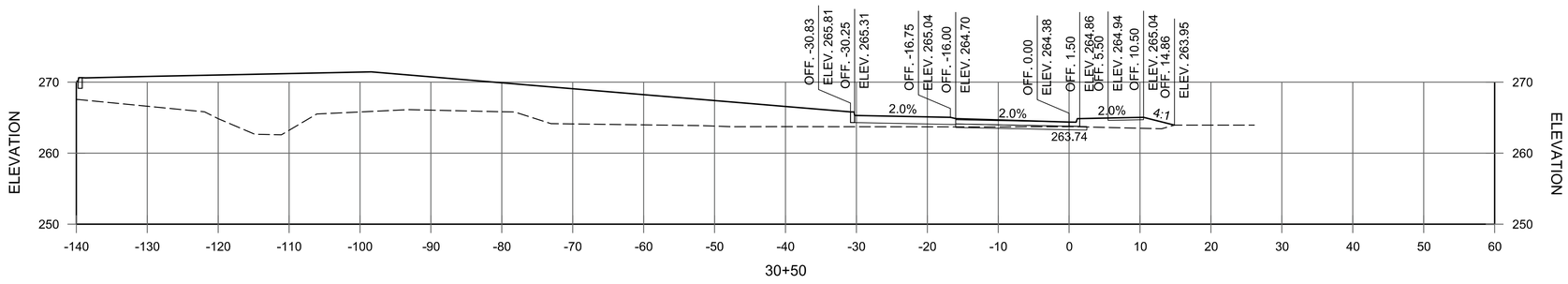
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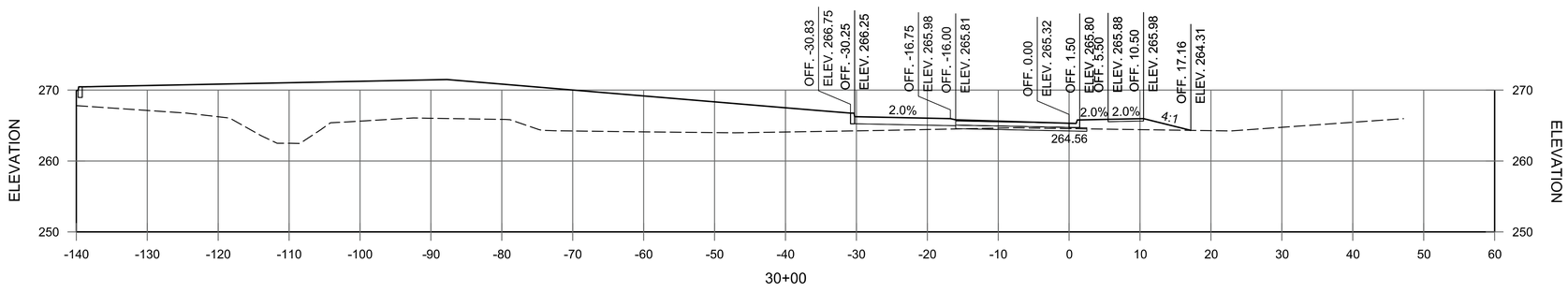
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STA. 30+00 TO STA. 30+85

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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

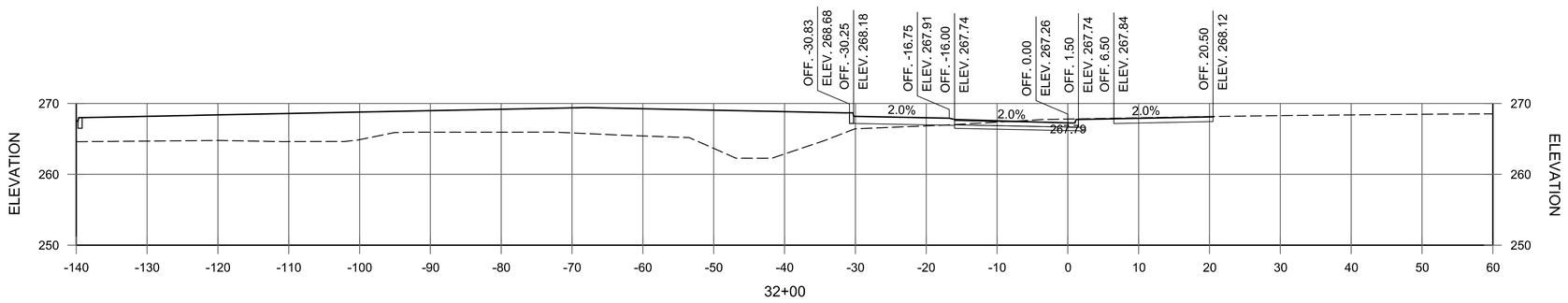
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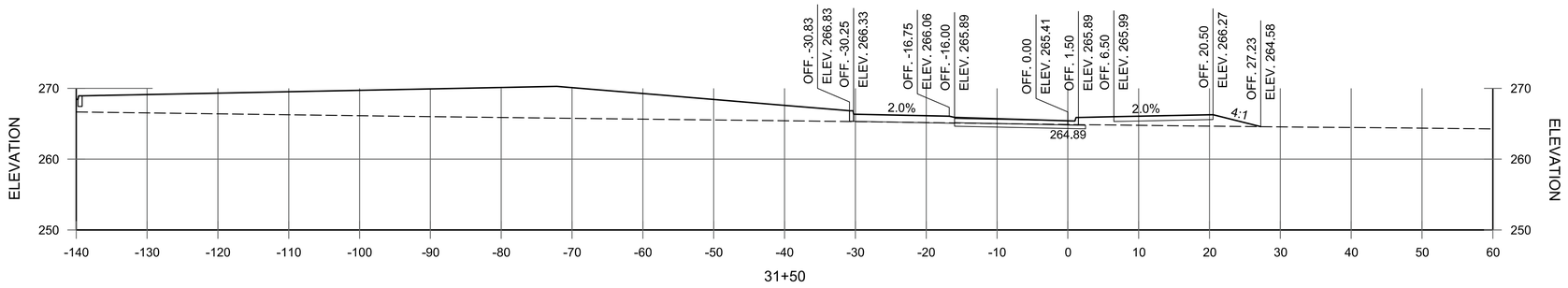
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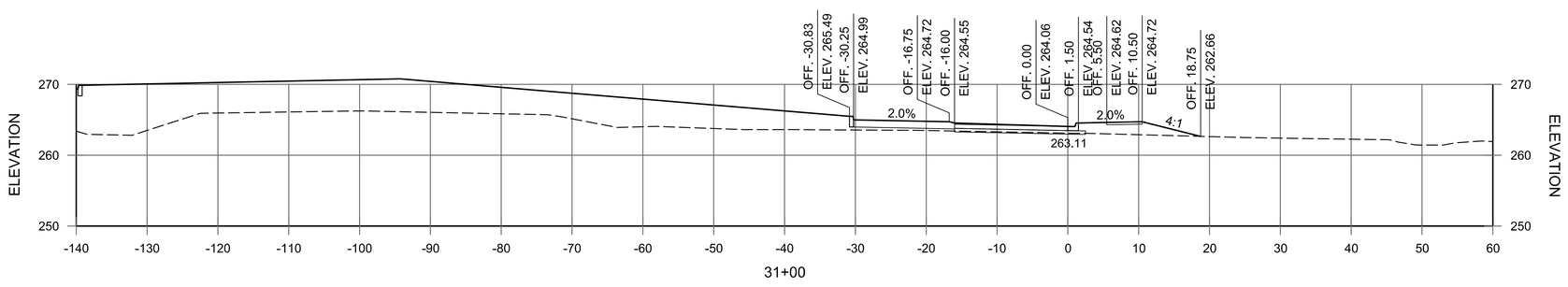
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ROUNDABOUT 2
STA. 31+00 TO STA. 32+00

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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

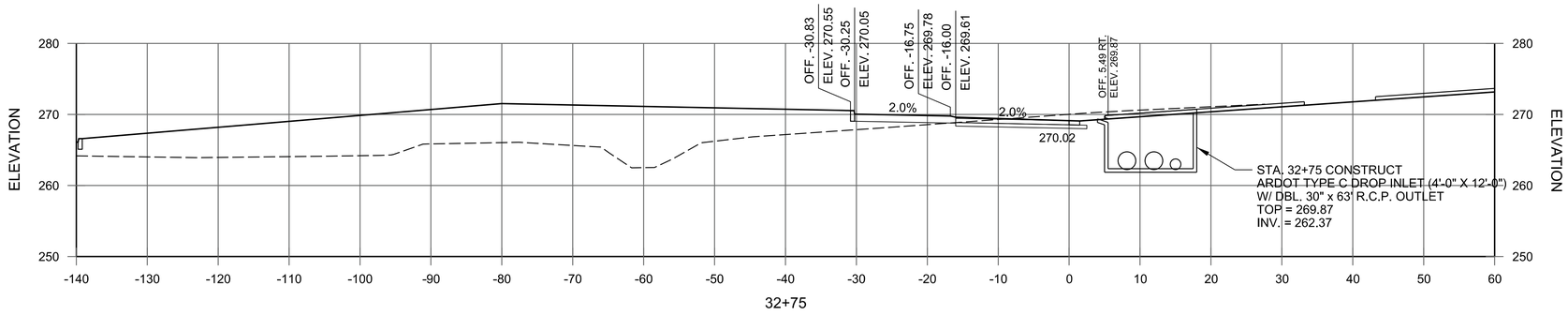
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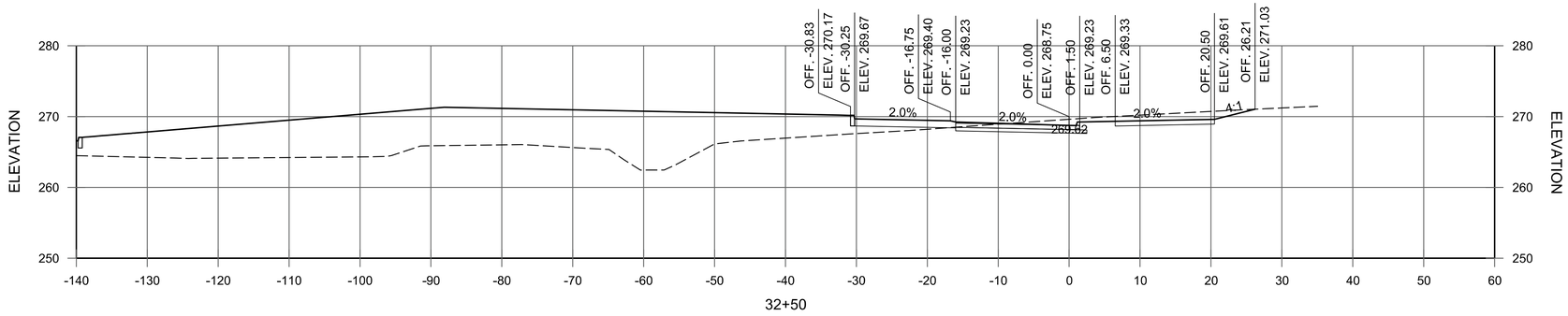
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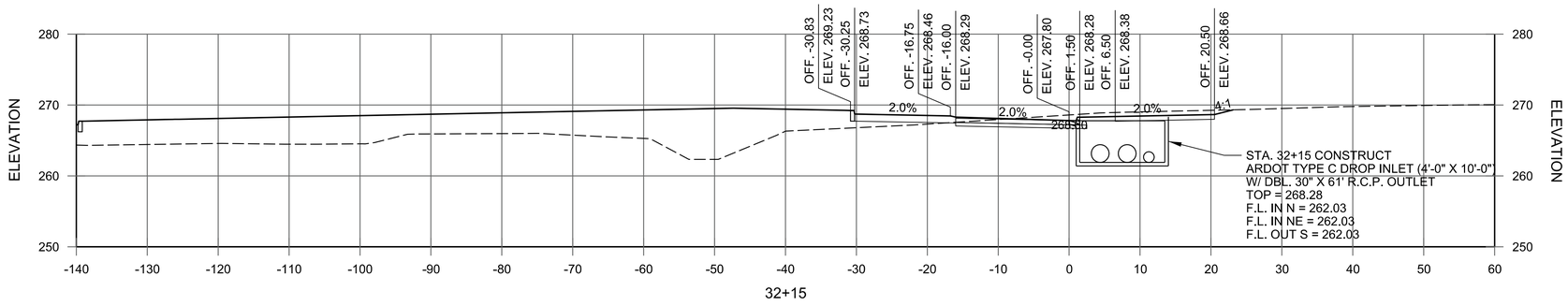
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ROUNDABOUT 2
STA. 32+15 TO STA. 32+75

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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

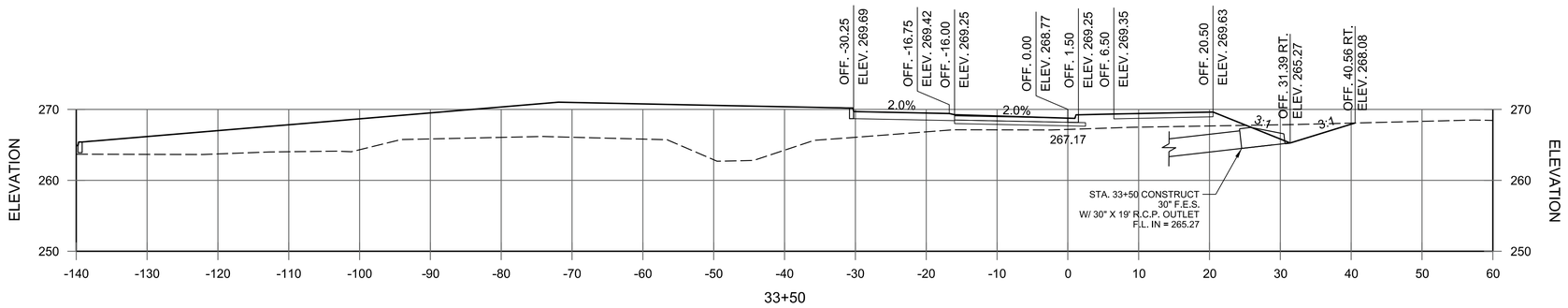
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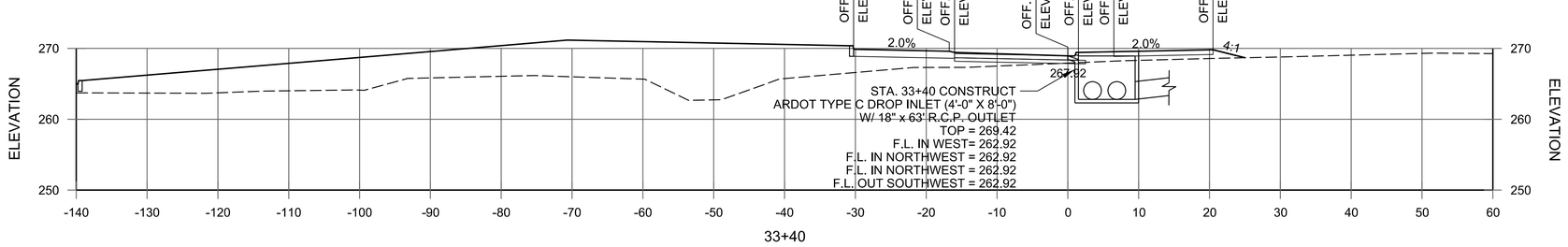
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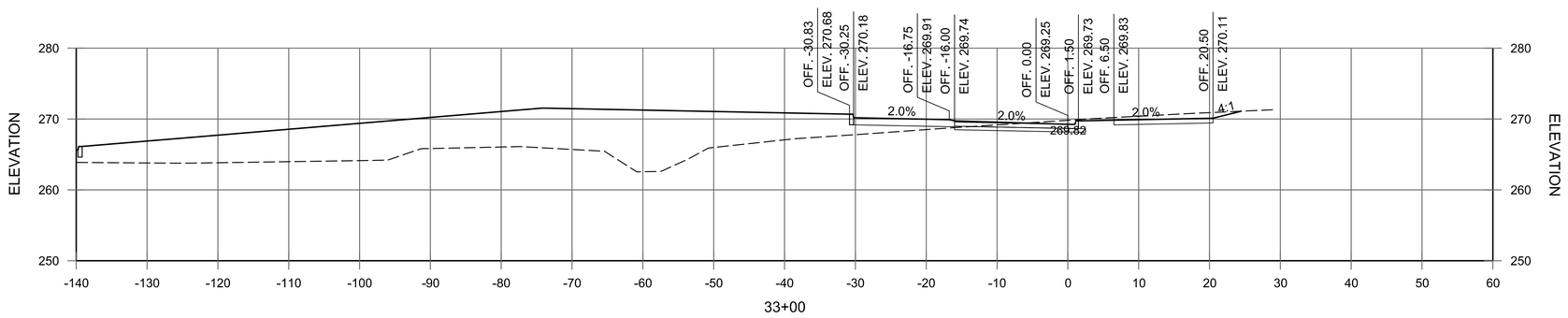
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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

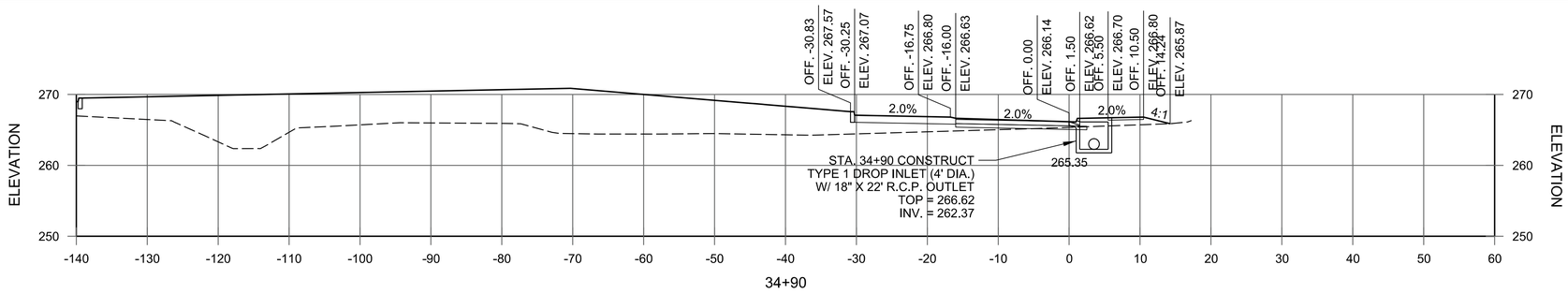
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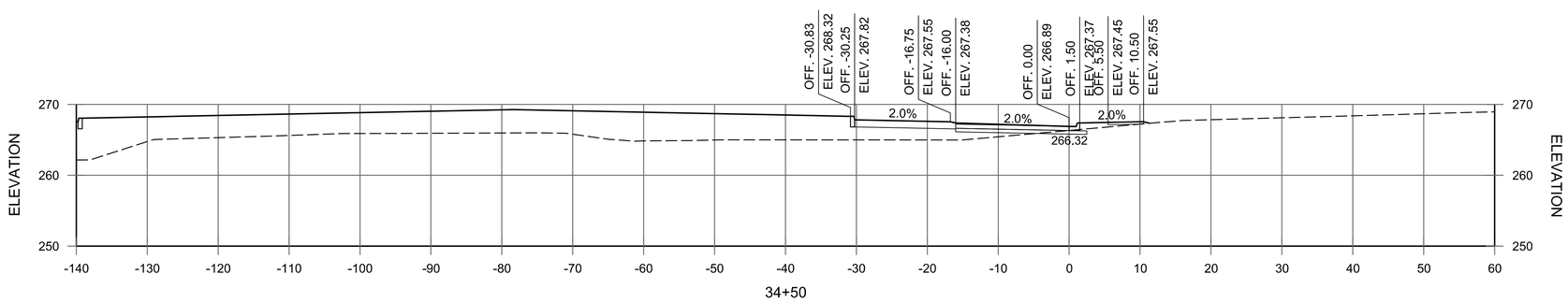
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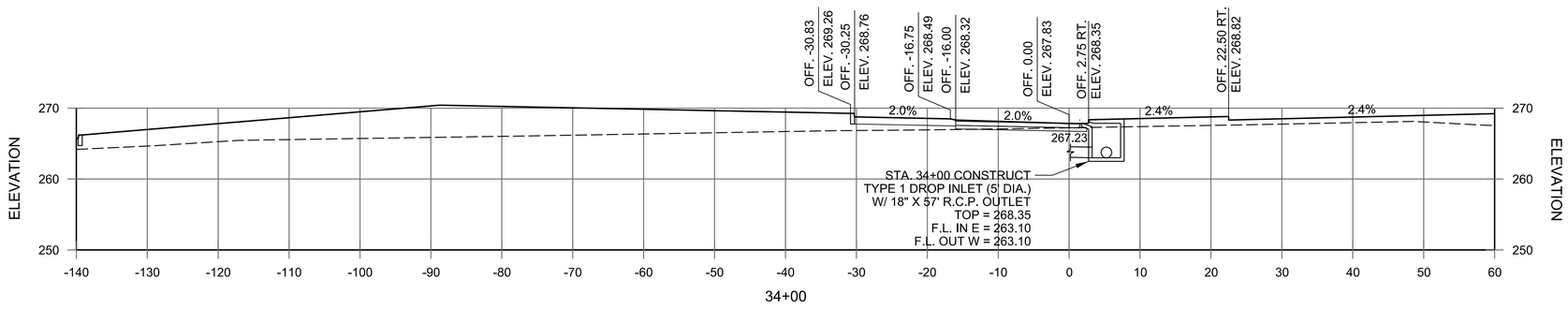
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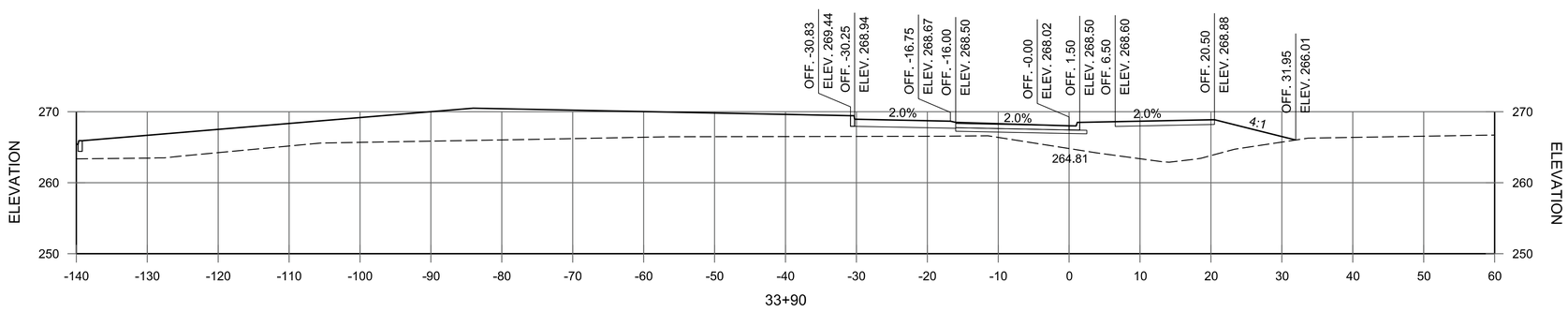
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WORKSPACE:Garver_2012









ROUNDABOUT 2
STA. 33+90 TO STA. 34+90

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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

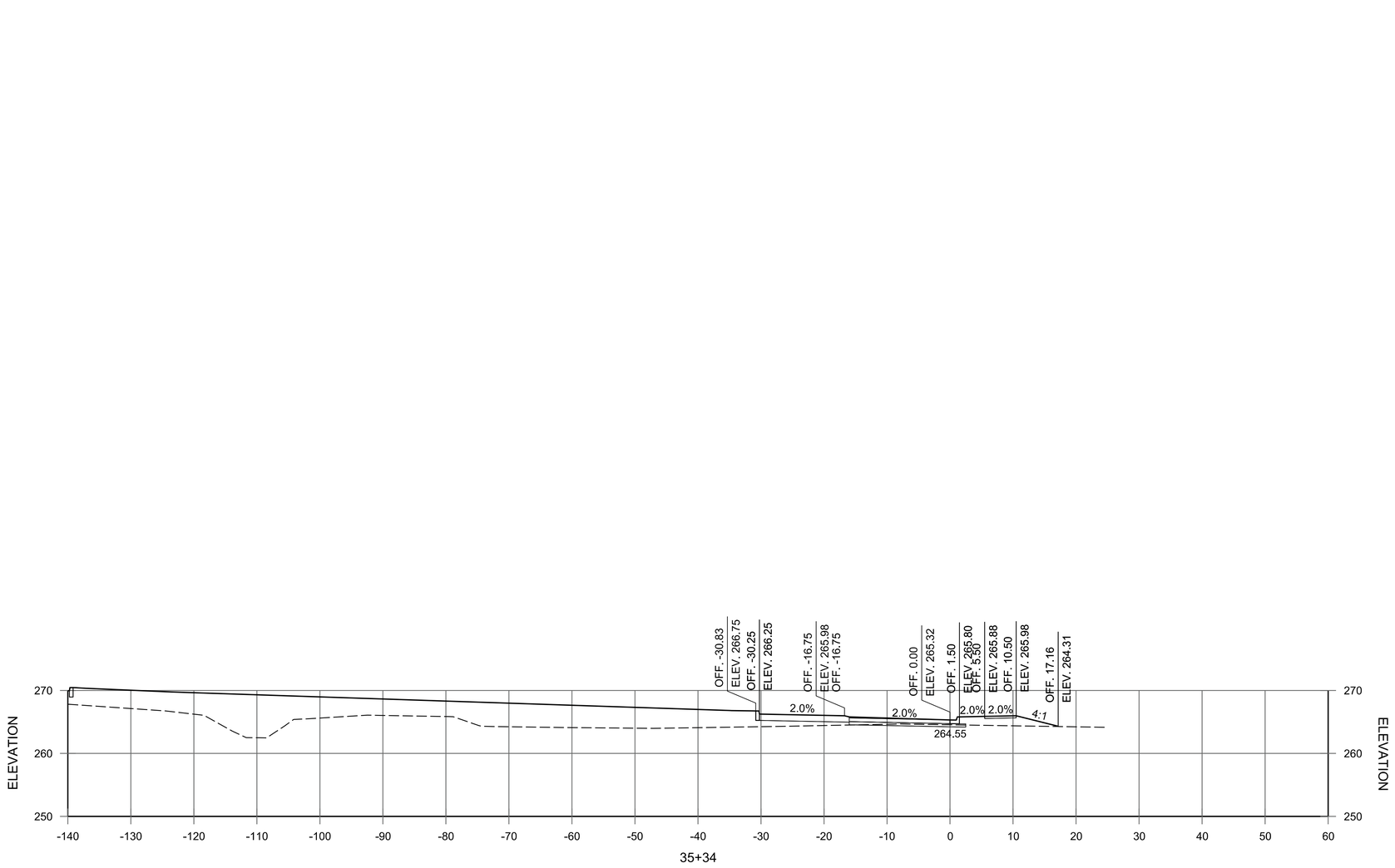
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

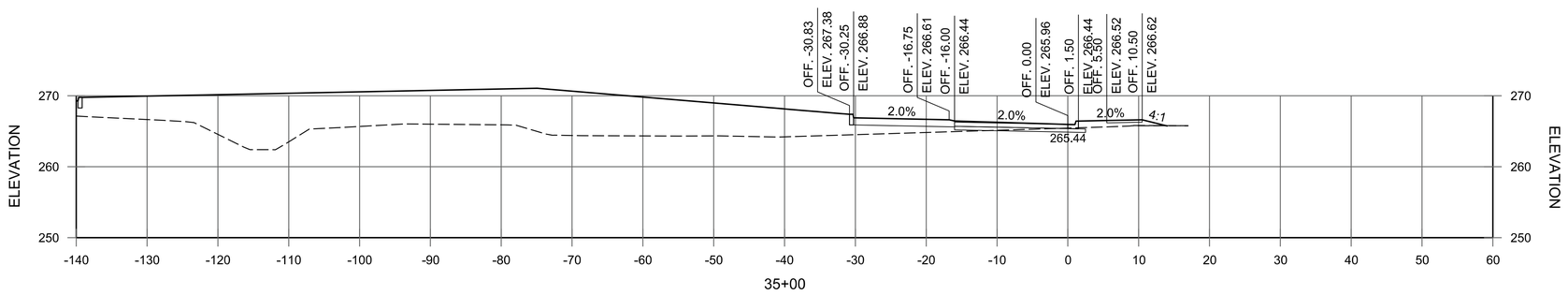
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DRAWING NUMBER
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ROUNDABOUT 2
STA. 35+00 TO STA. 35+34

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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

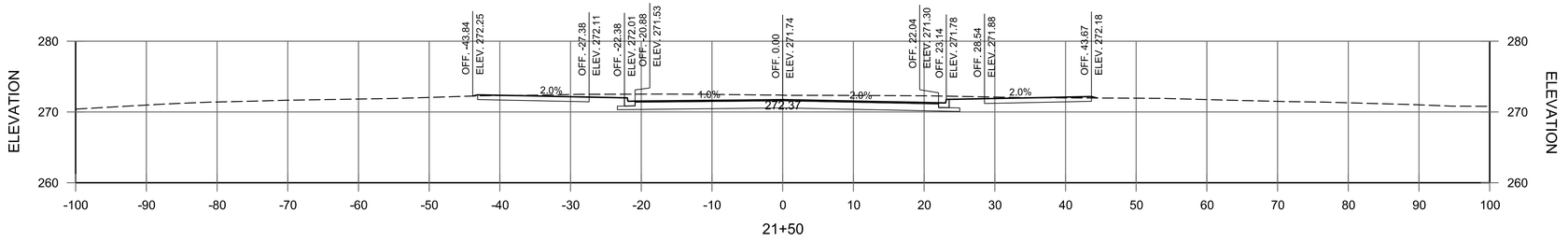
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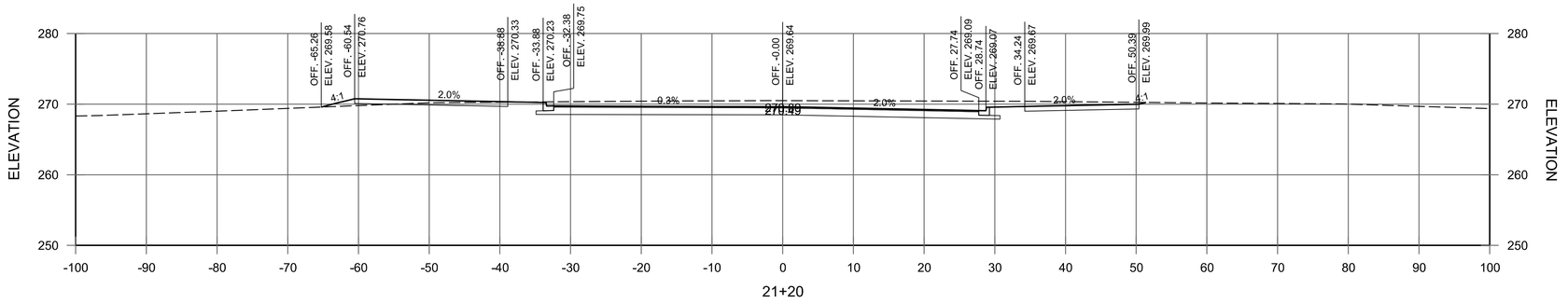
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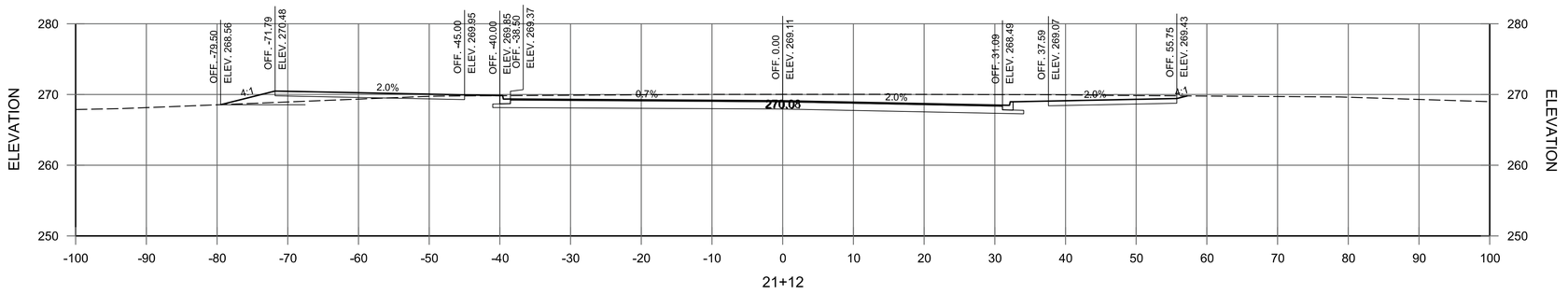
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SUBDIVISION SIDE RD. 2
STA. 21+12 TO STA. 21+50

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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

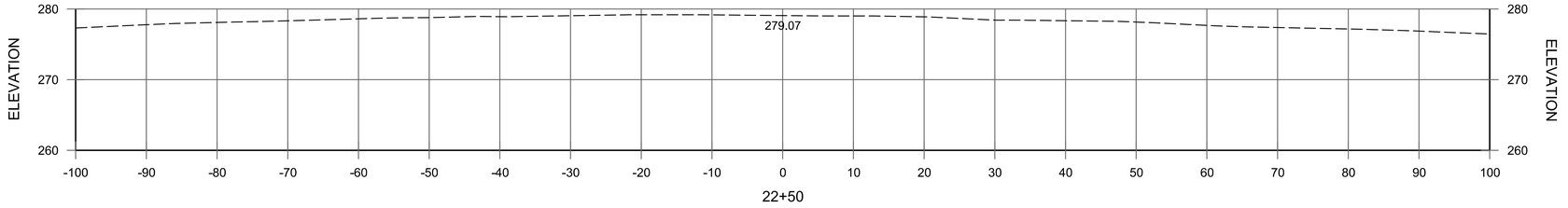
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DATE: JUNE 2023
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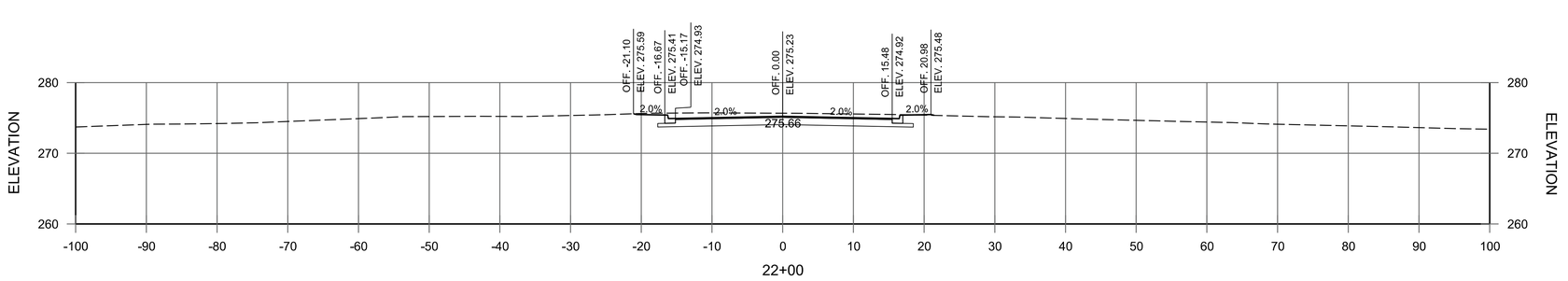
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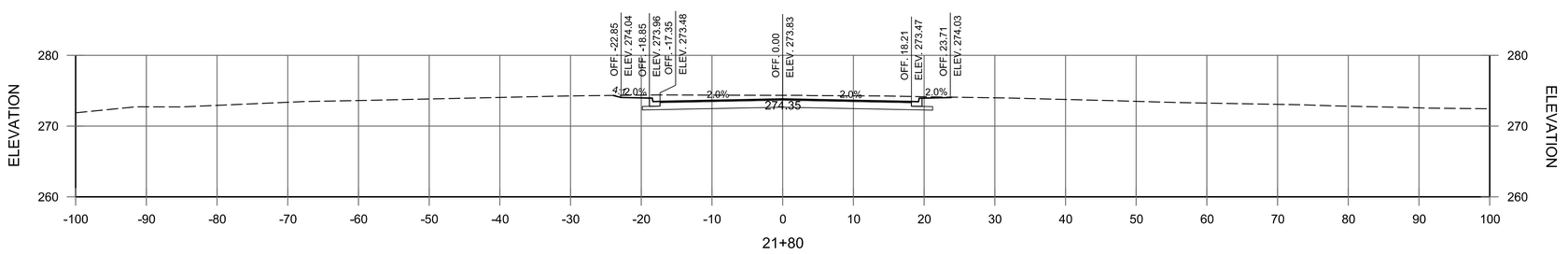
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SUBDIVISION SIDE RD. 2
STA. 21+80 TO STA. 22+50

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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

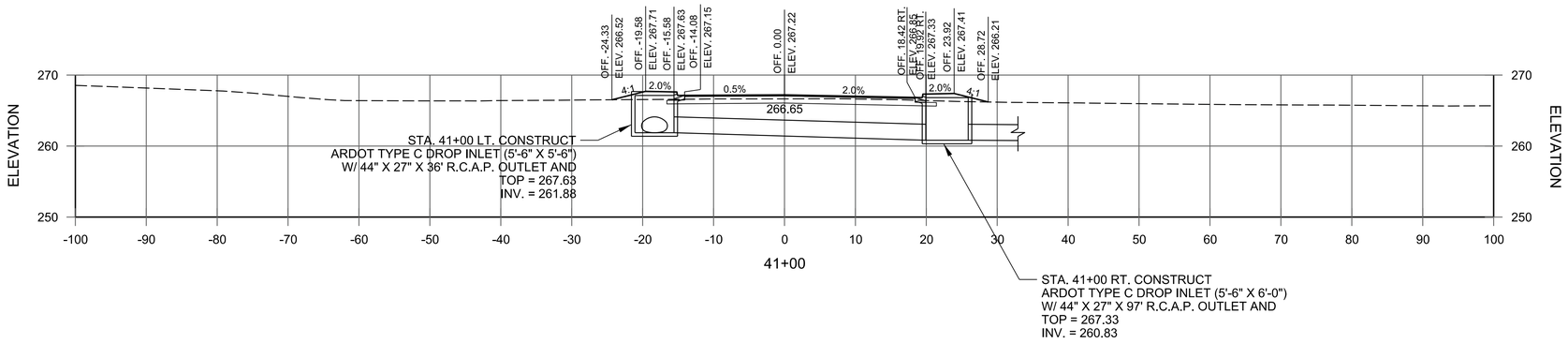
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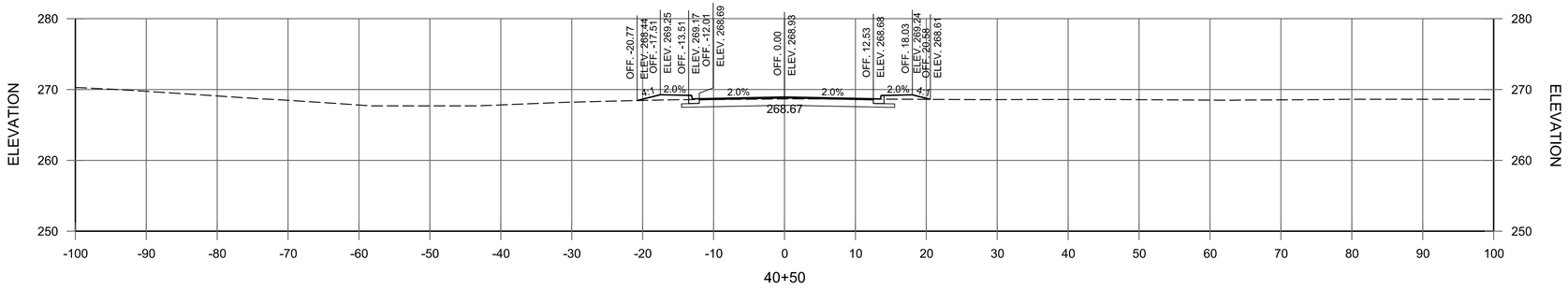
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DRAWING NUMBER
C-970

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PUBLIC WORKS ACCESS
STA. 40+15 TO STA. 41+00

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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

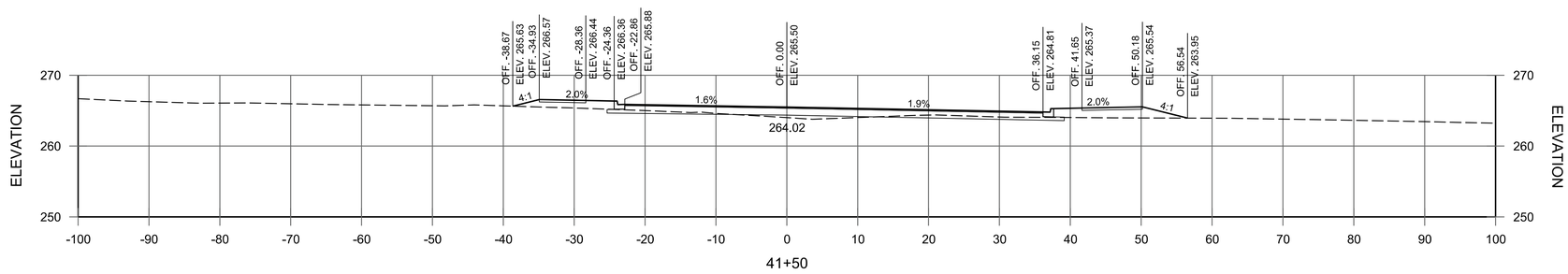
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DRAWN BY: DRAWN

BAR IS ONE INCH ON ORIGINAL DRAWING
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DRAWING NUMBER
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WORKSPACE:Garver_2012
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

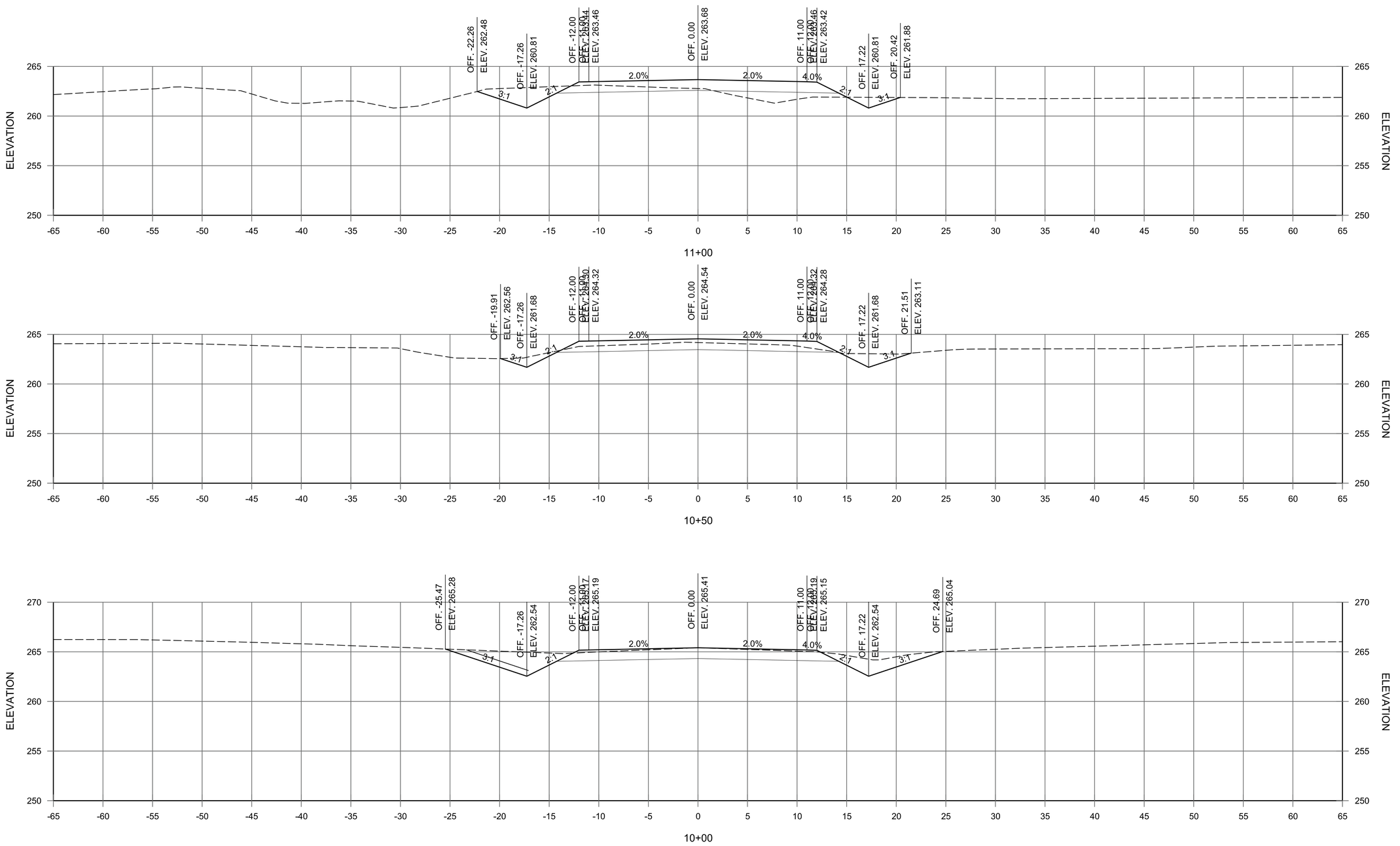
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DETOUR RD.
STA. 10+00 TO STA. 11+00

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1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

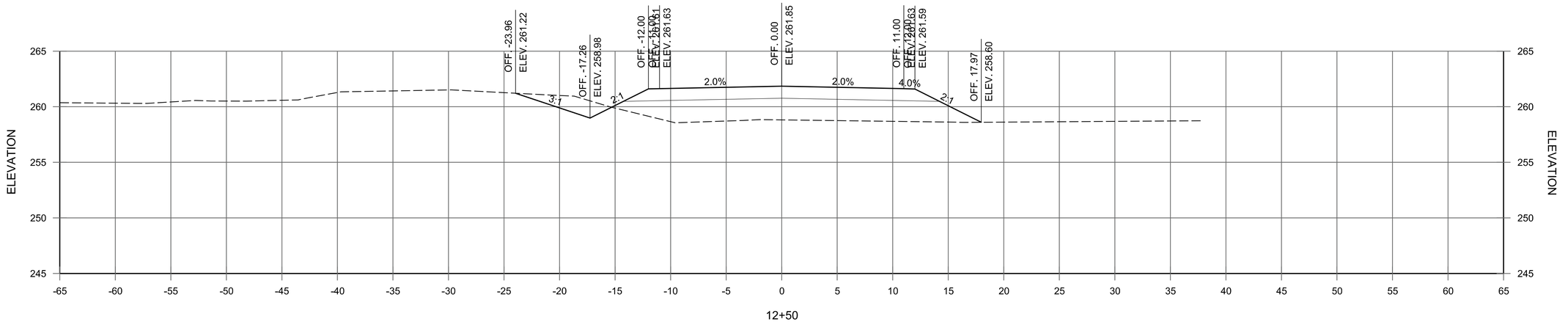
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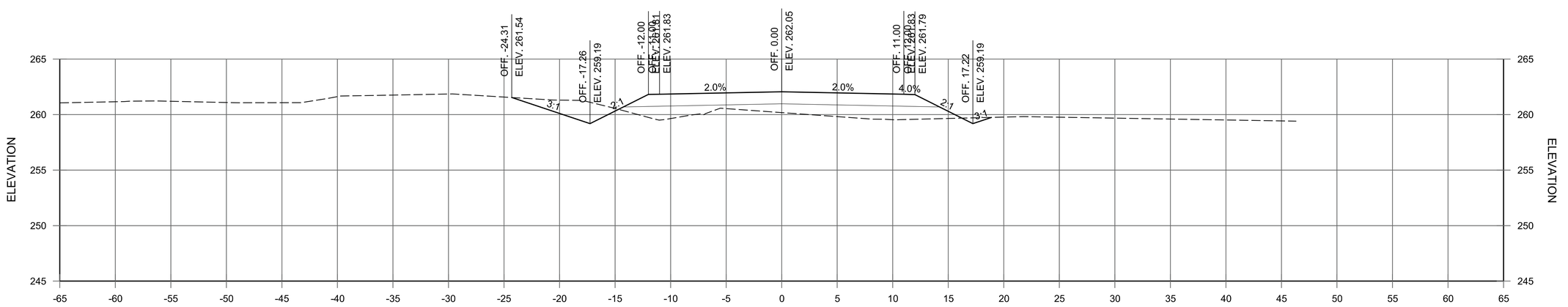
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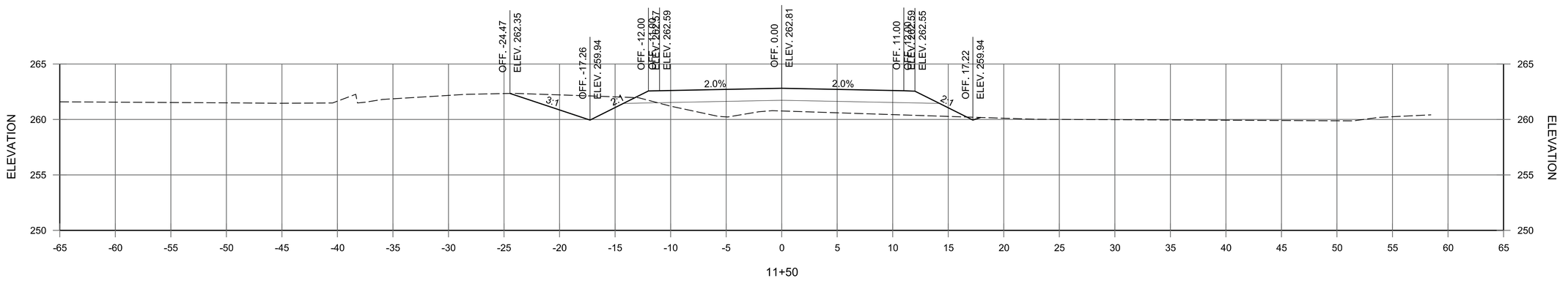
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DETOUR RD.
STA. 11+50 TO STA. 12+50

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1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

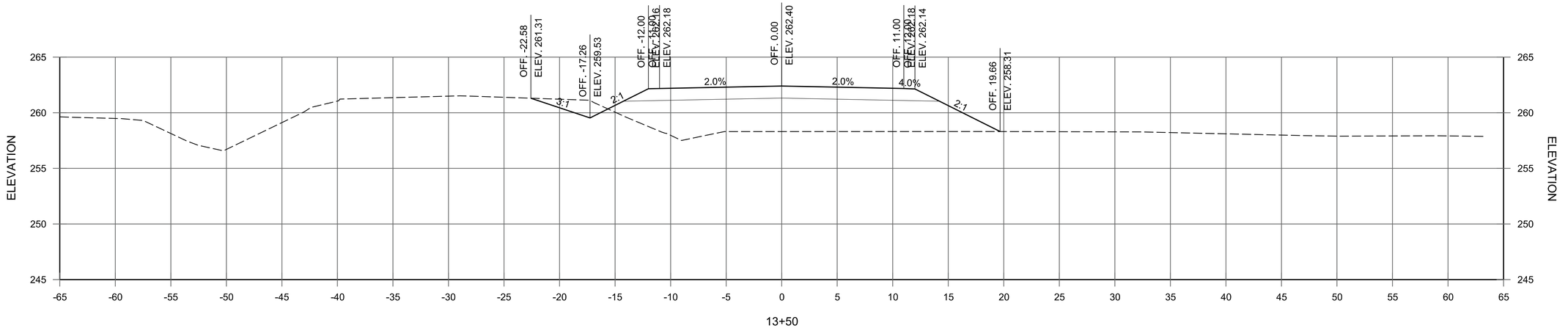
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DATE: JUNE 2023
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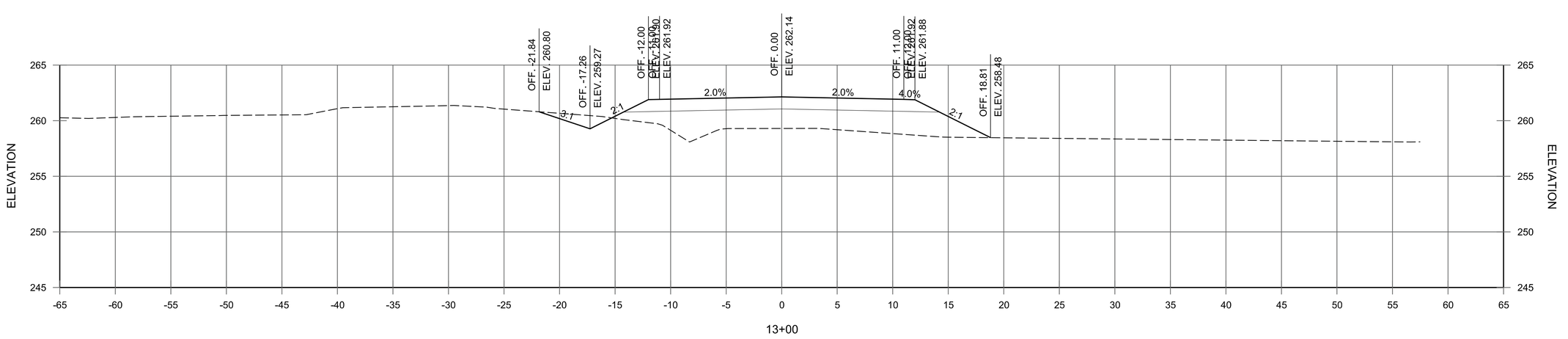
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DRAWING NUMBER
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WORKSPACE:Garver_2012





DETOUR RD.
STA. 13+00 TO STA. 13+50

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1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

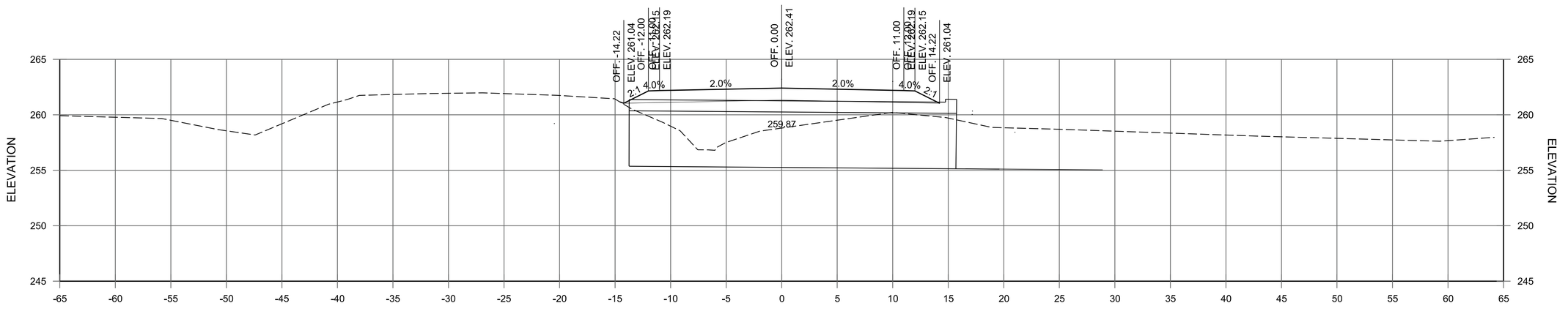
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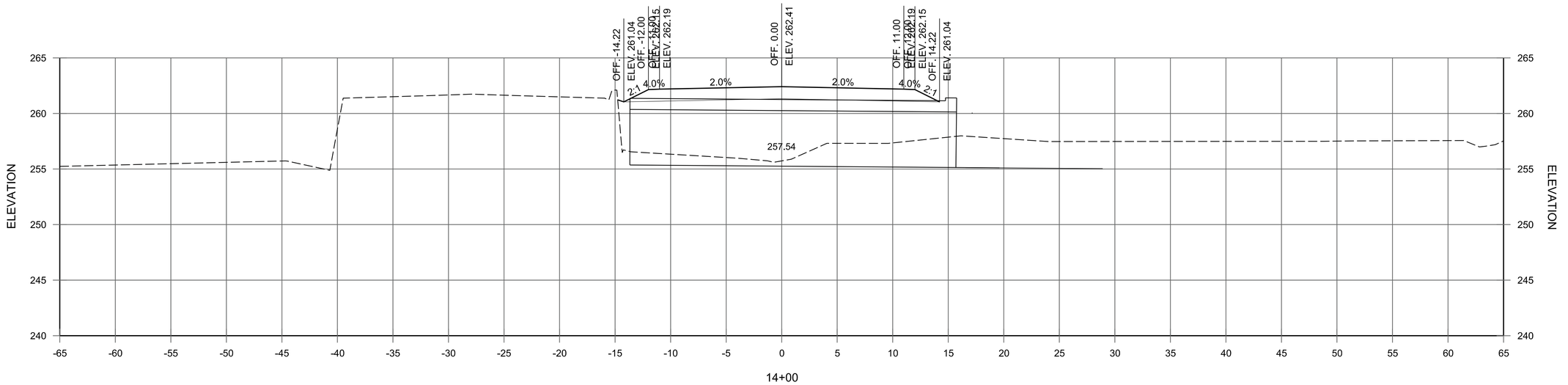
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DETOUR RD.
STA. 14+00 TO STA. 14+50

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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

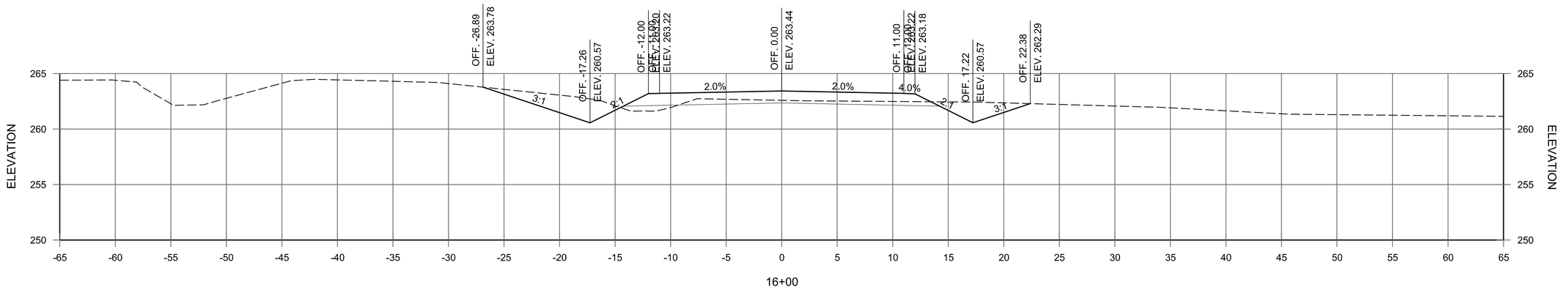
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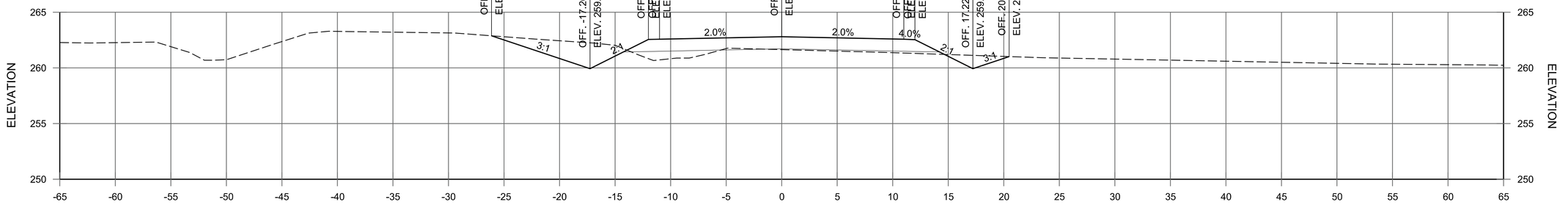
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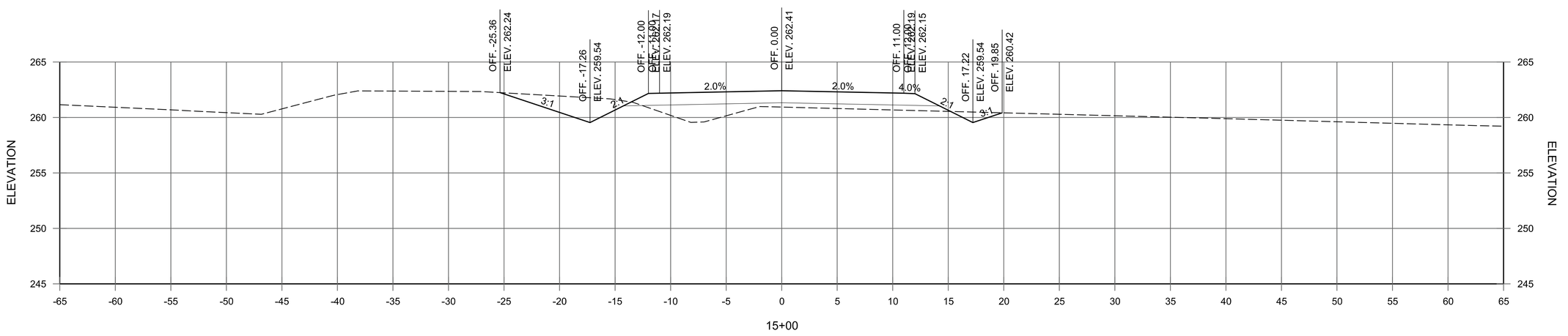
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DETOUR RD.
STA. 15+00 TO STA. 16+00

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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

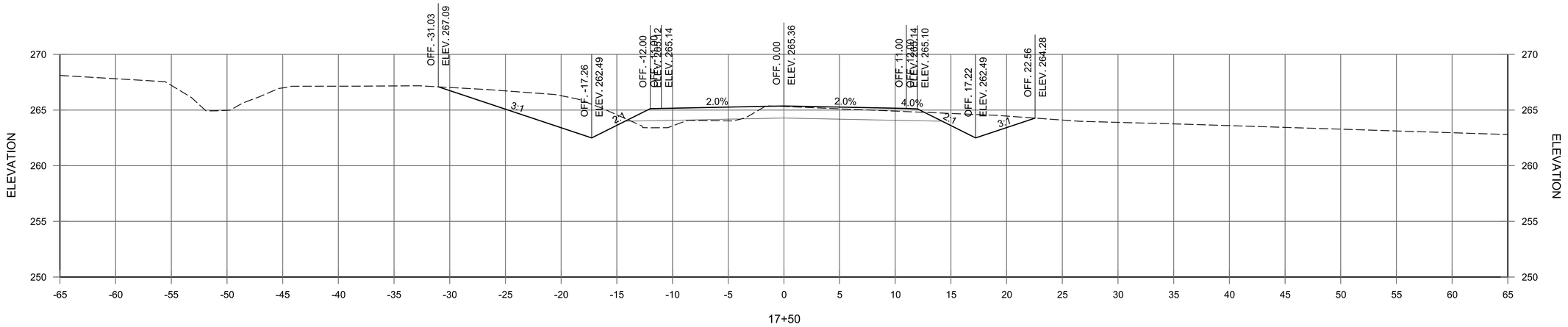
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DRAWN BY: AMW

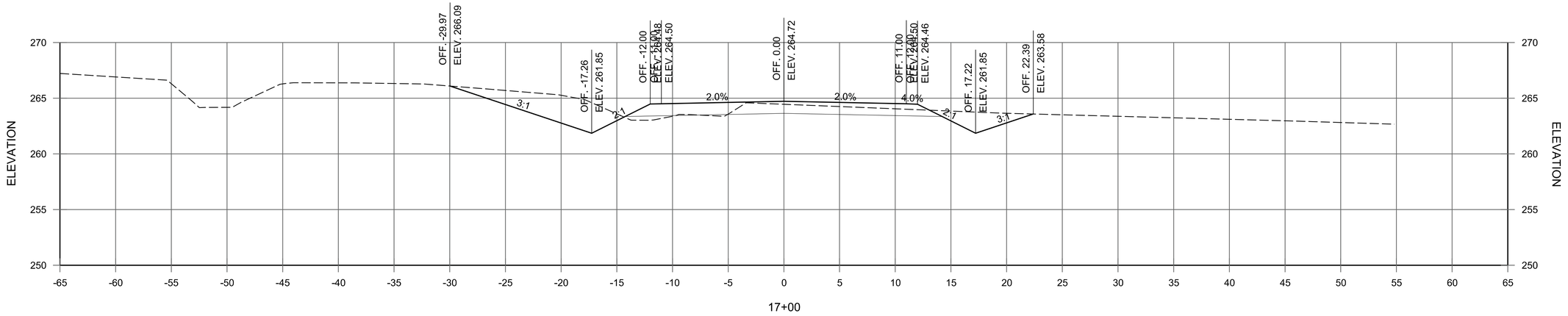
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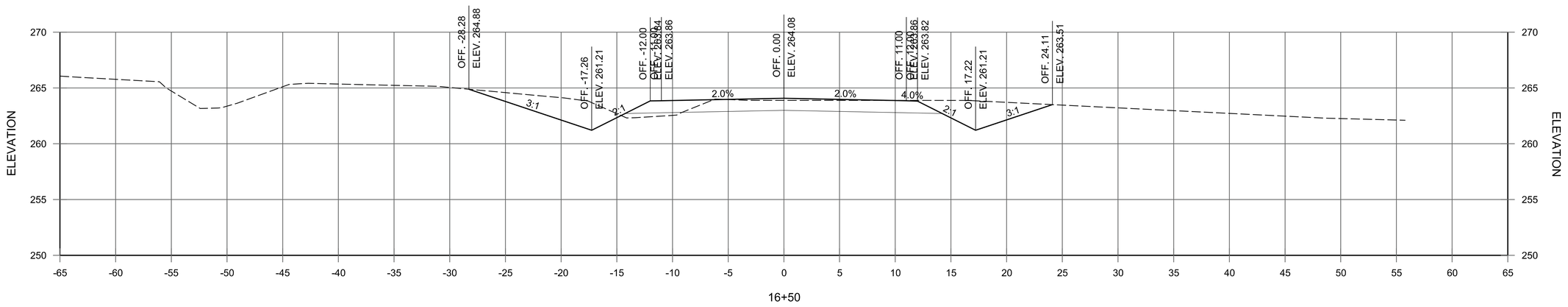
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DETOUR RD.
STA. 16+50 TO STA. 17+50

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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

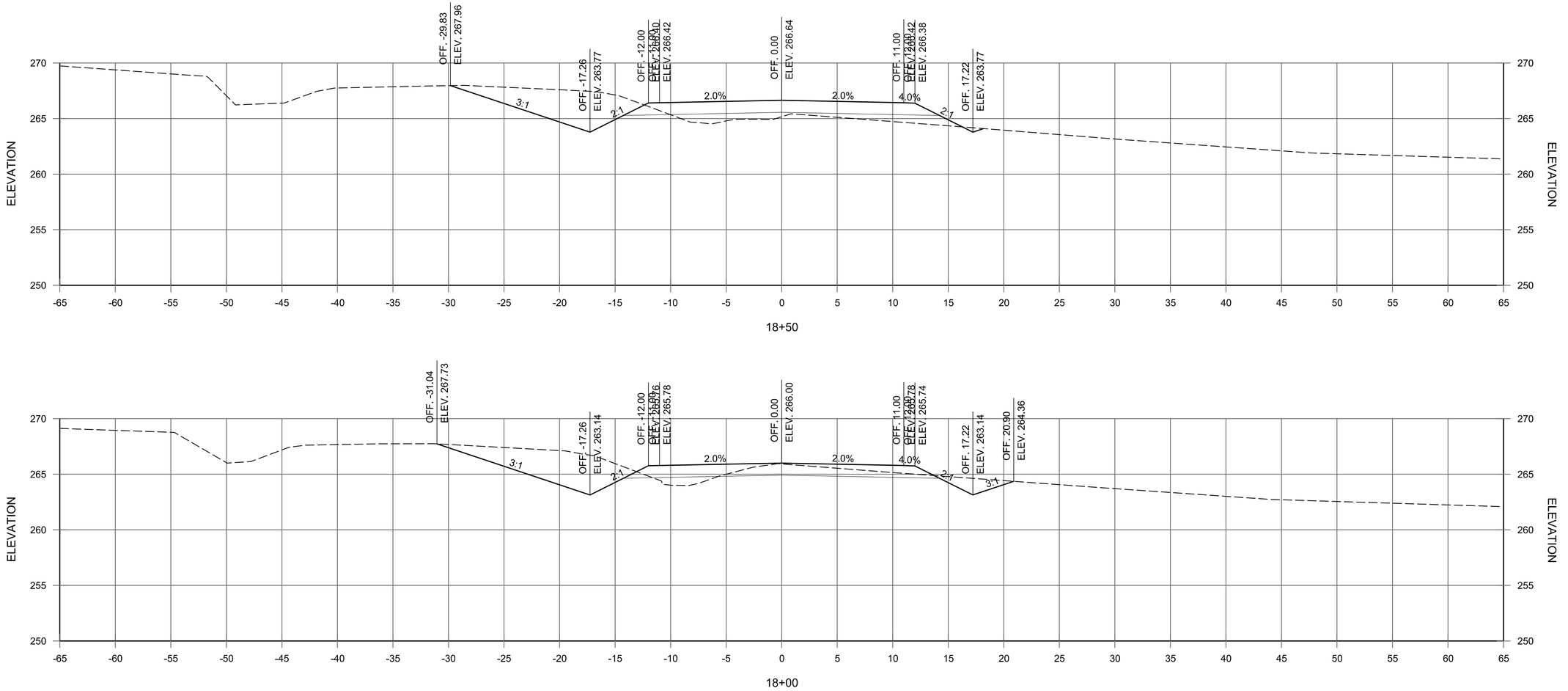
JOB NO.: 18017190
DATE: JUNE 2023
DESIGNED BY: CMC
DRAWN BY: AMW

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DRAWING NUMBER
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

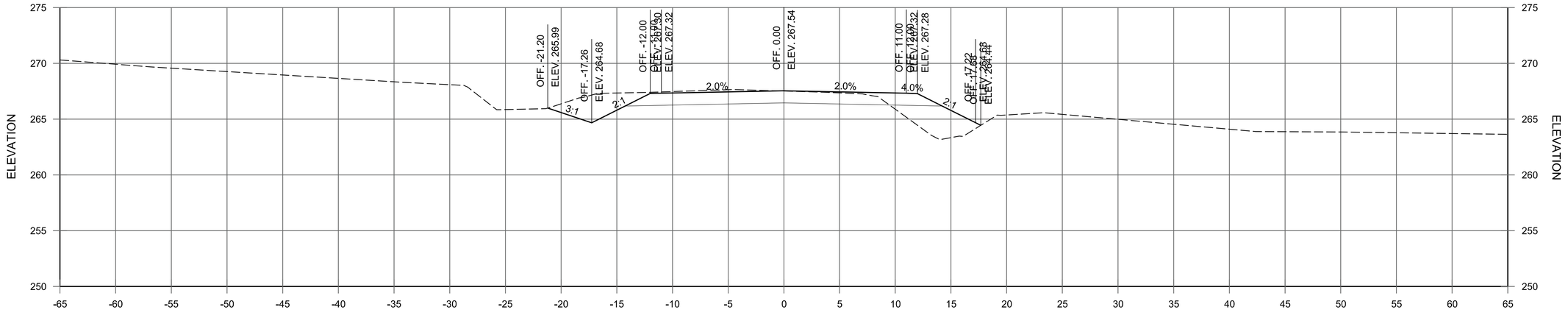
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DATE: JUNE 2023
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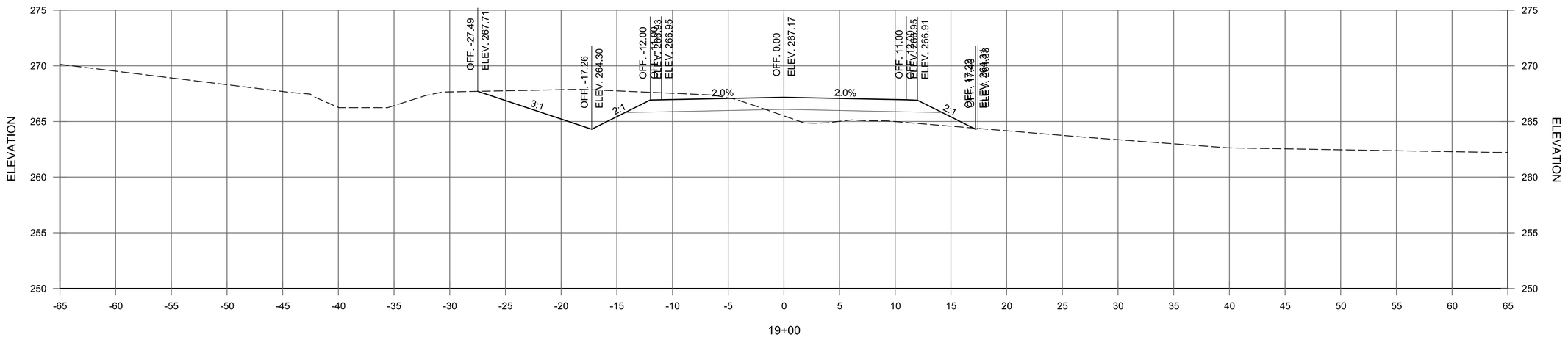
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19+50



19+00

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1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

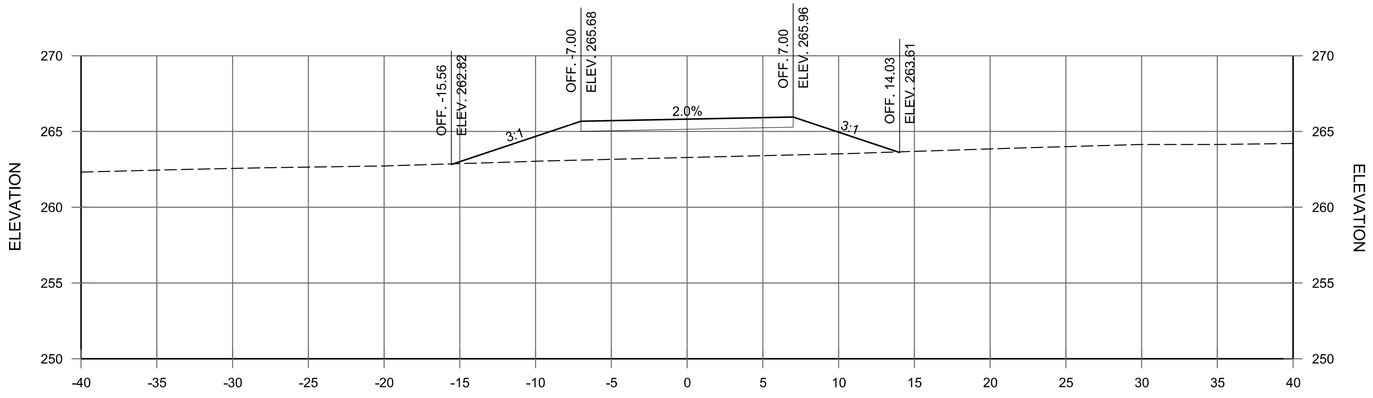
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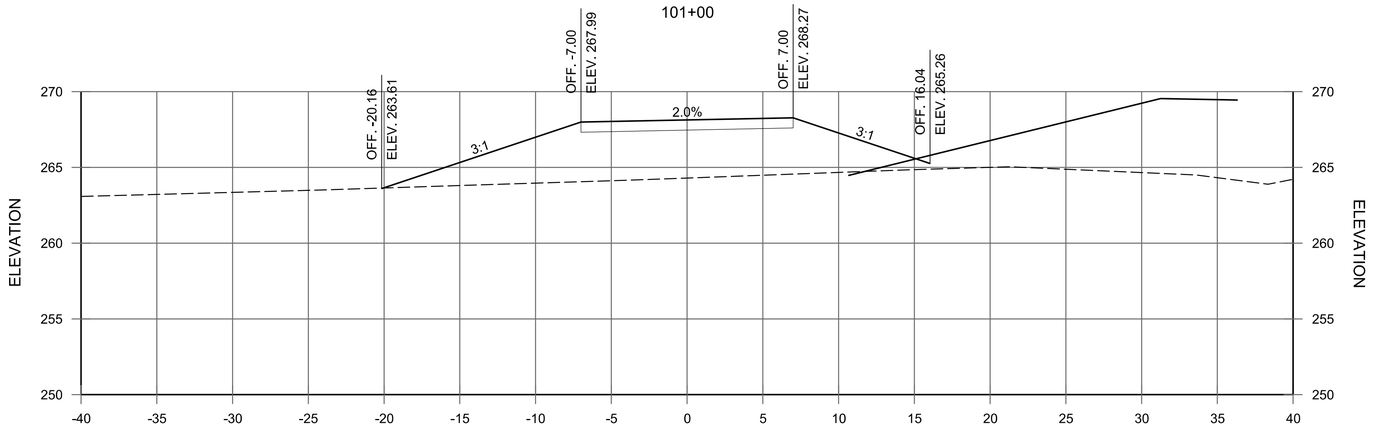
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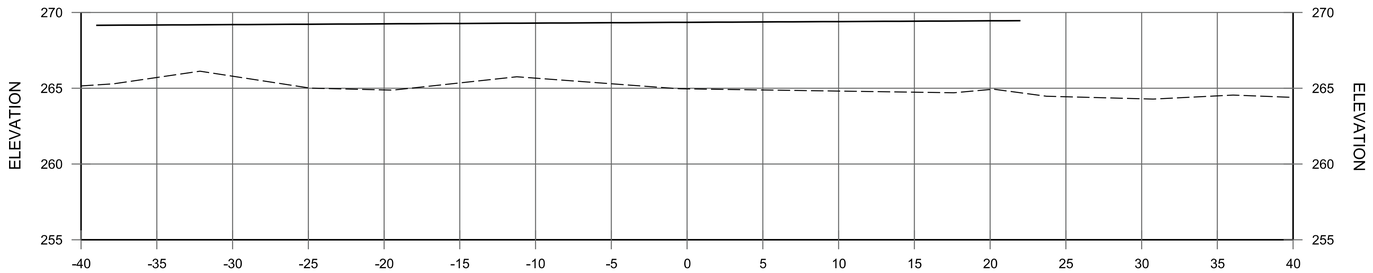
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100+50



100+00

PEDESTRIAN UNDERPASS ACCESS
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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

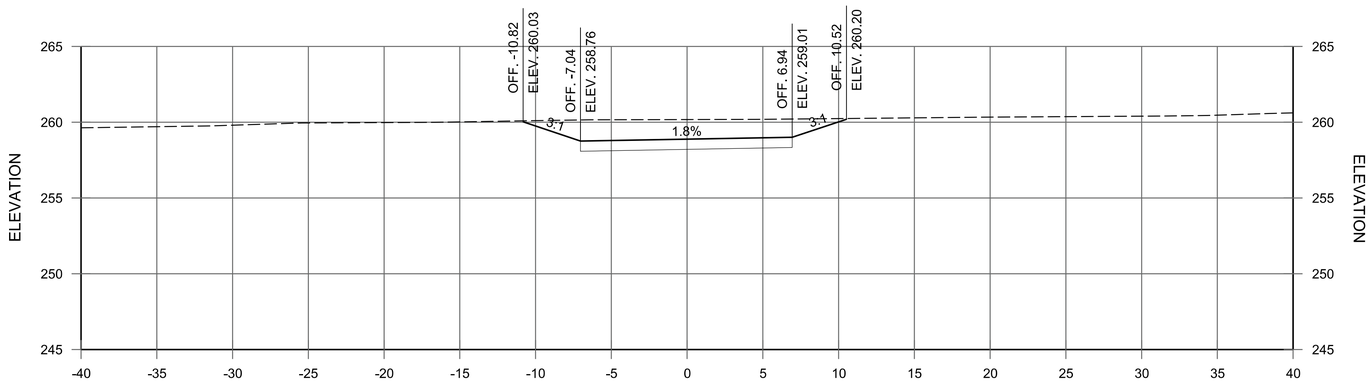
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DATE: JUNE 2023
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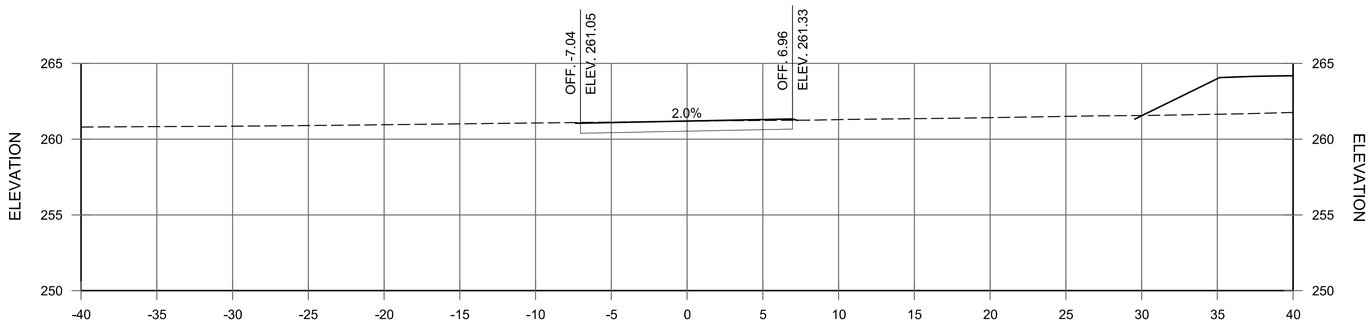
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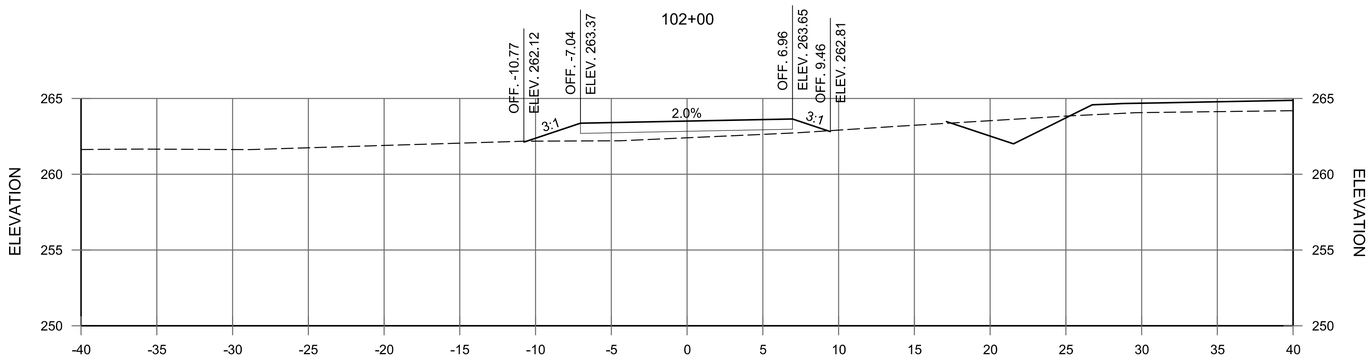
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102+50



102+00



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REV.	DATE	DESCRIPTION	BY
1	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

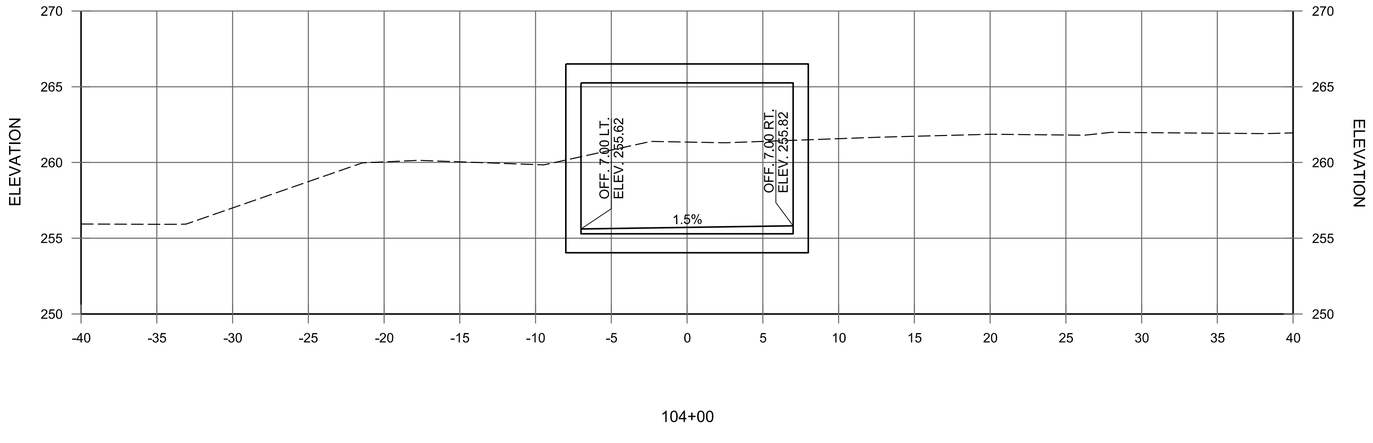
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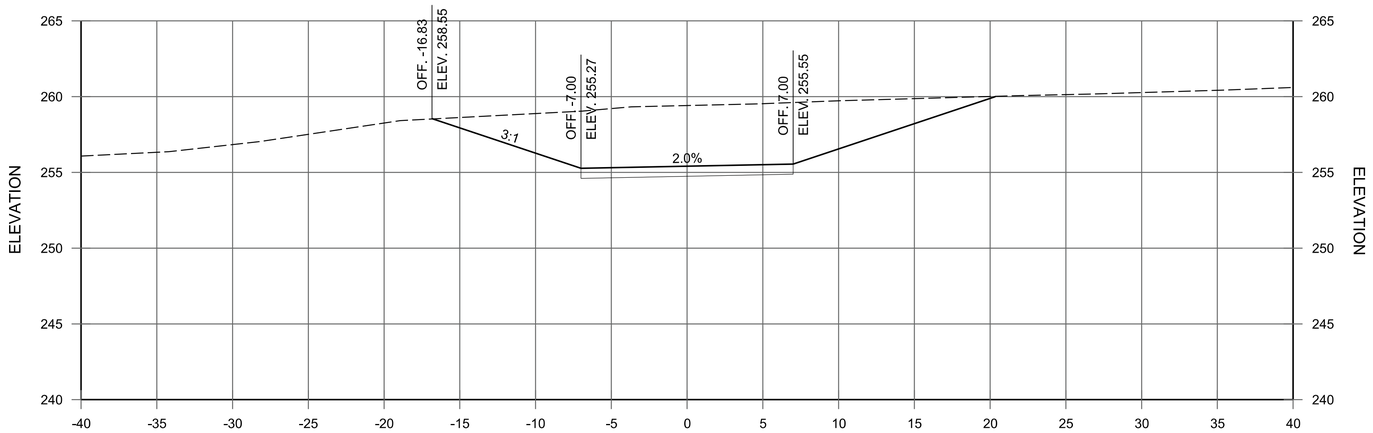
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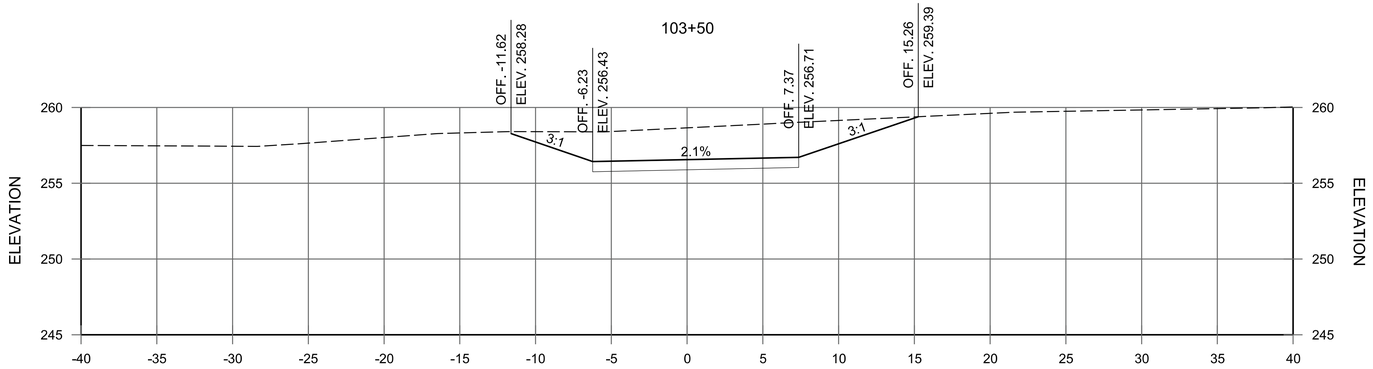
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104+00



103+50



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REV.	DATE	DESCRIPTION	BY
1	02/02/22	MODIFIED CROSS SECTIONS 14' WIDE TUNNEL	CMC
2	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

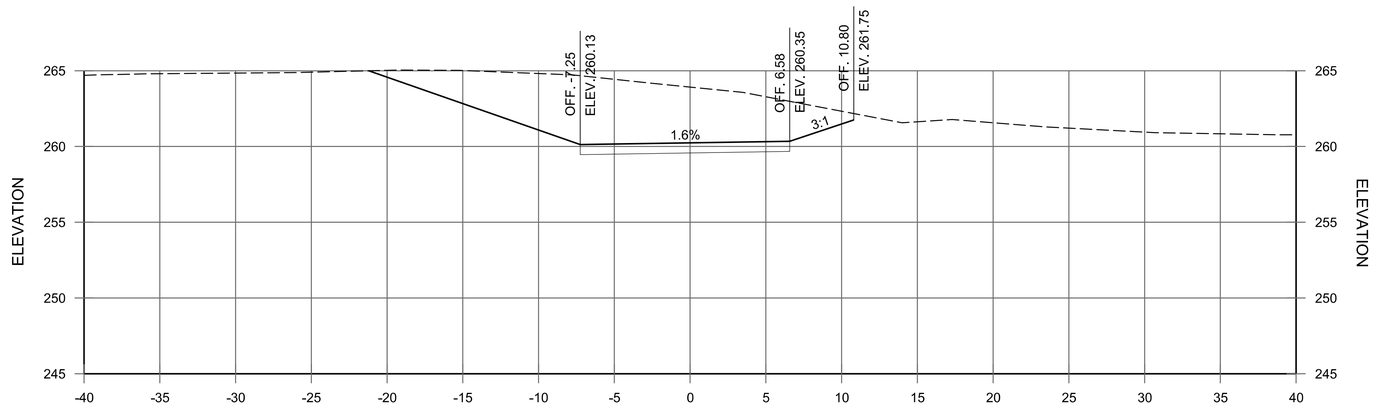
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DATE: JUNE 2023
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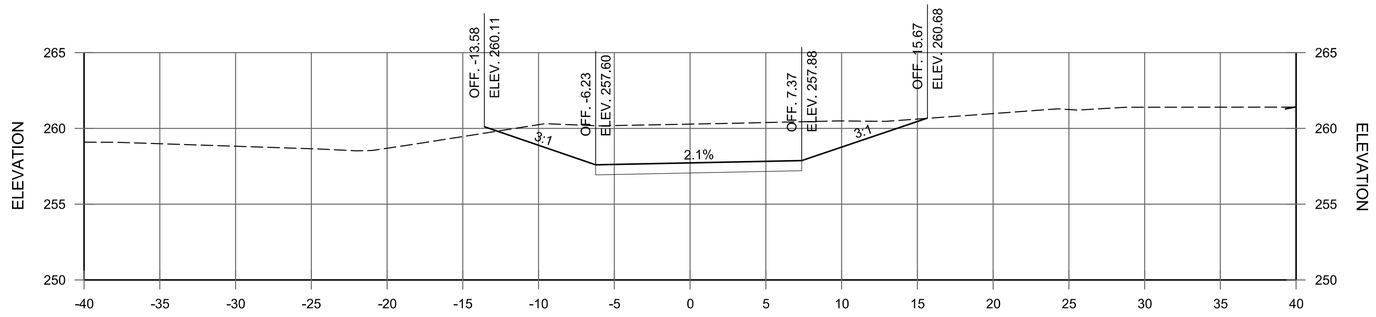
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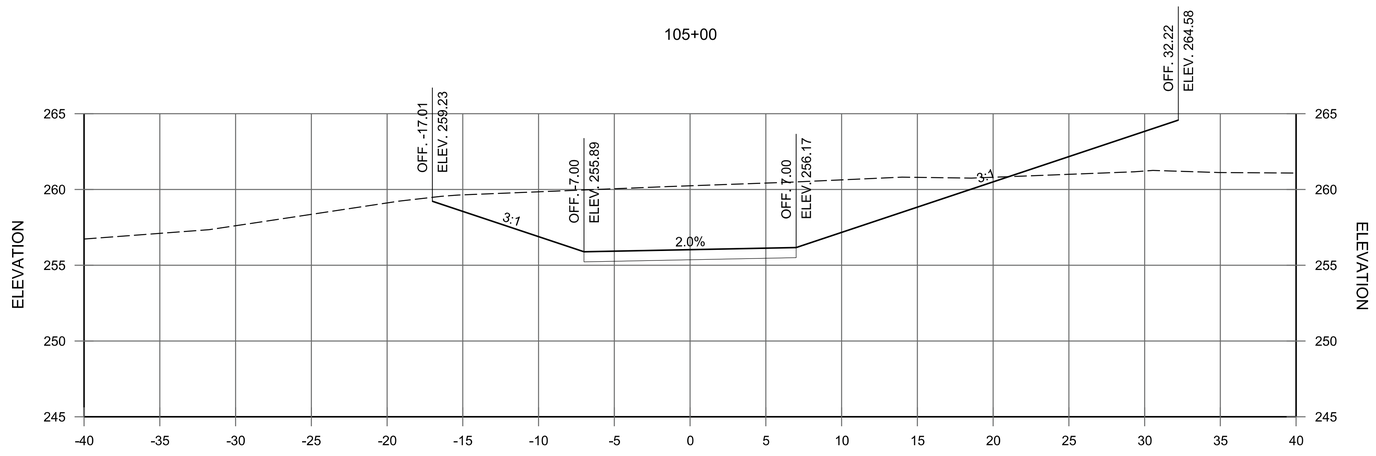
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REV.	DATE	DESCRIPTION	BY
1	02/02/22	MODIFIED CROSS SECTIONS 14' WIDE TUNNEL	CMC
2	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

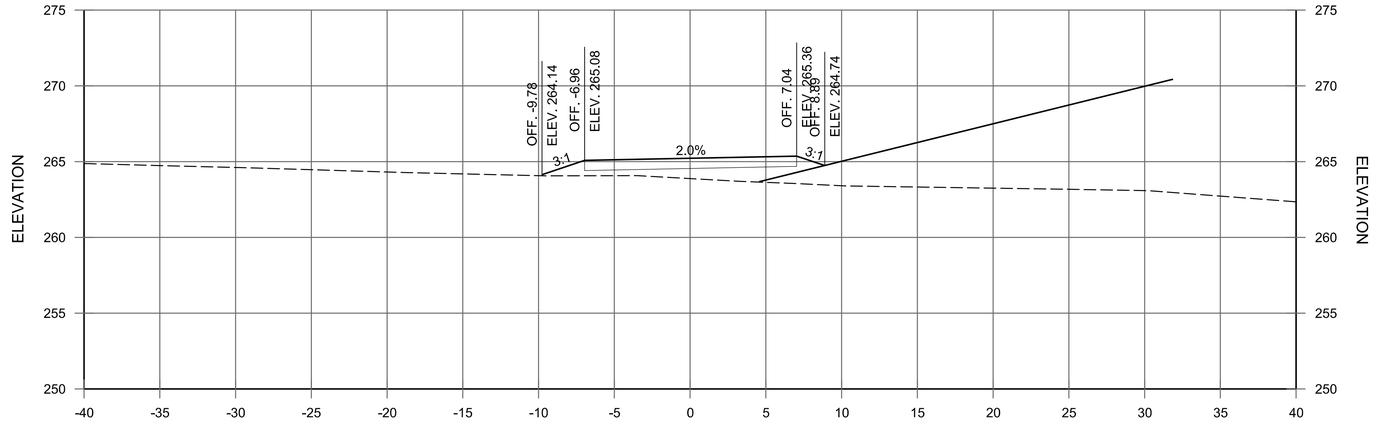
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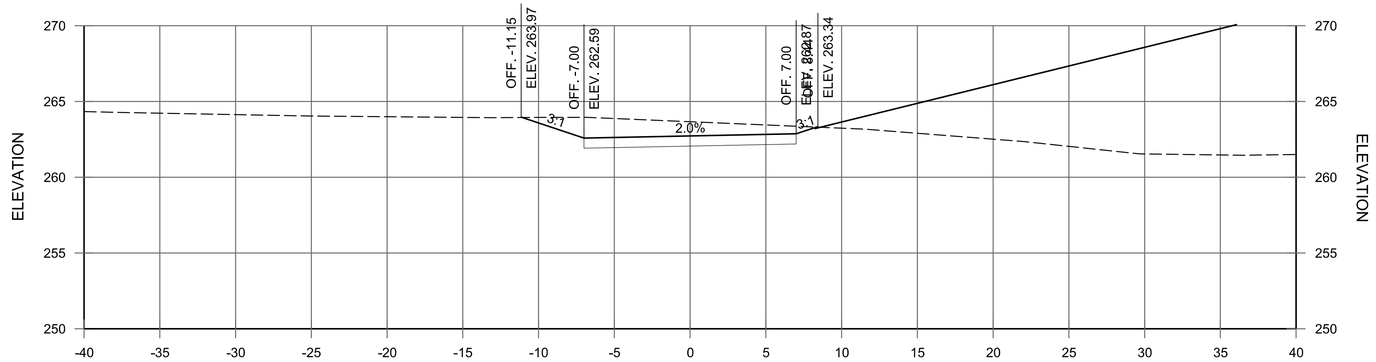
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2	6/8/2023	REISSUED SHEET	CMC

CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

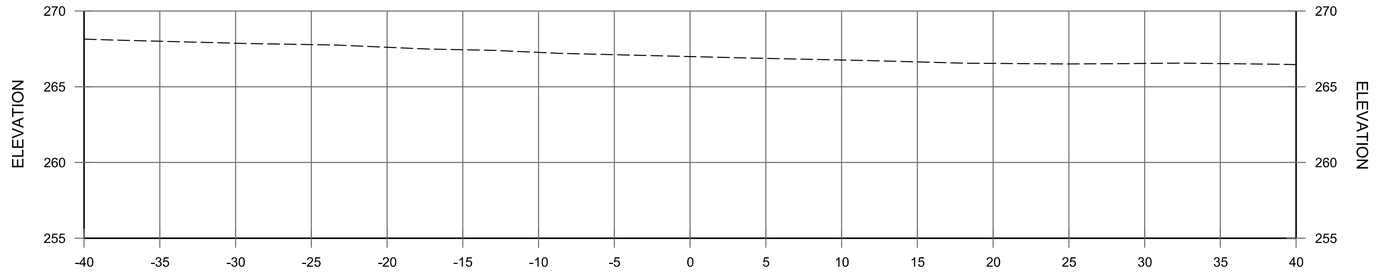
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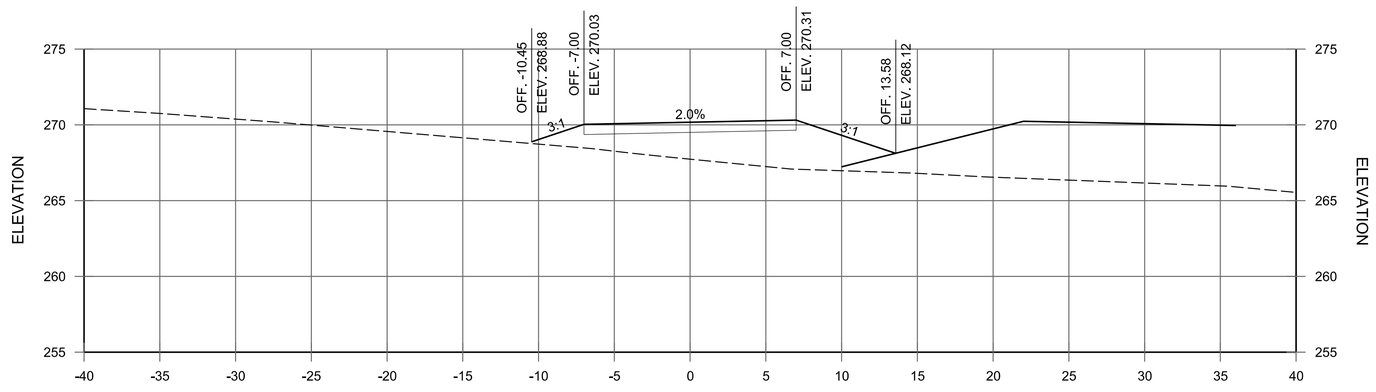
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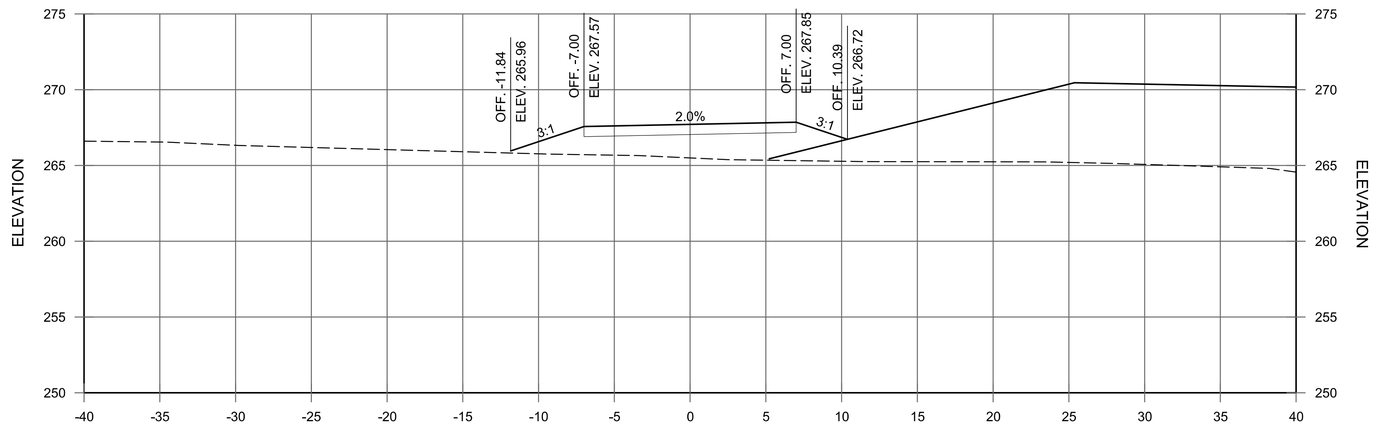
SHEET NUMBER **193**



107+89



107+50



107+00

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CITY OF SHERWOOD
PULASKI COUNTY, ARKANSAS

JACKSONVILLE-CATO ROAD
STREET AND DRAINAGE
IMPROVEMENTS - PHASE I

CROSS SECTIONS

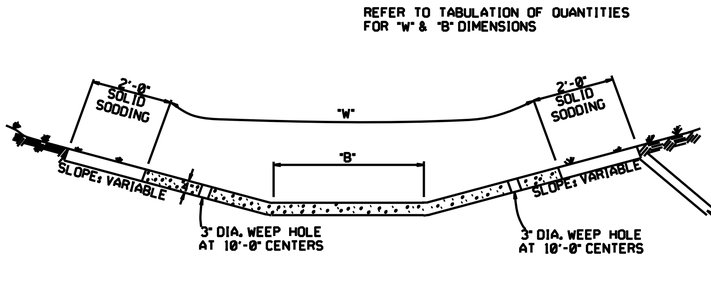
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DRAWN BY: AMC

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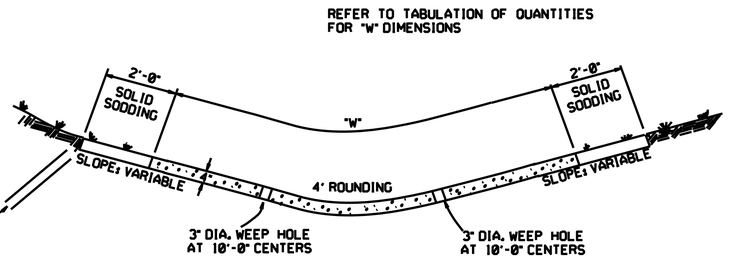
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TYPE A

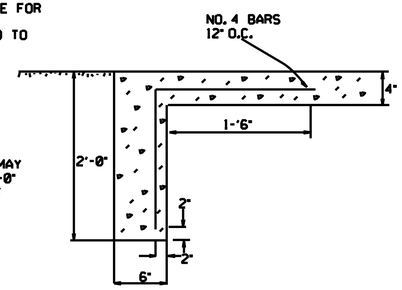
EXCAVATE TO NEAT LINES TO CONSTRUCT DITCH PAVING AND SOLID SODDING.



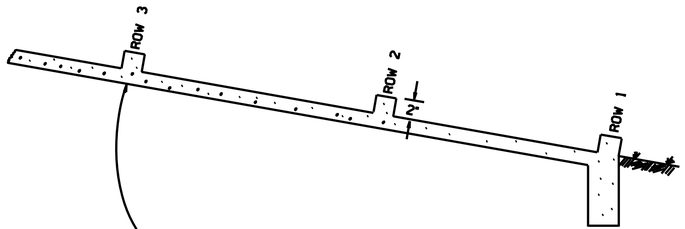
TYPE B

THE STEEL AND ADDITIONAL CONCRETE FOR THE WALLS SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID FOR "CONCRETE DITCH PAVING."

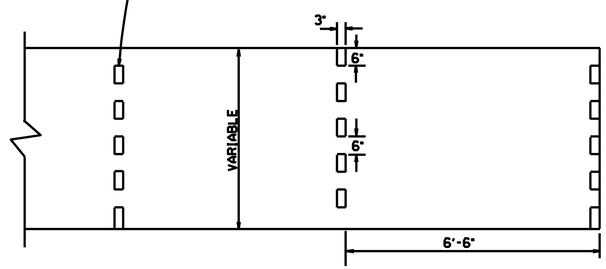
TOE WALL DEPTH MAY BE ALTERED TO 1'-0" WHEN DIRECTED BY THE ENGINEER IN ROCK EXCAVATION



TOE WALL DETAIL FOR CONCRETE DITCH PAVING



NUMBER OF ELEMENTS PER ROW VARIES WITH WIDTH OF PAVING SPECIFIED



ENERGY DISSIPATORS
(NO SCALE)

ENERGY DISSIPATORS TO BE USED FOR THE ENTIRE LENGTH OF DITCH WHEN SLOPE OF DITCH PAVING EXCEEDS 7%. THE DISSIPATORS WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID FOR CONCRETE DITCH PAVING.

GENERAL NOTES:

THE FULL WIDTH OF EACH SECTION SHALL BE POURED MONOLITHICALLY.

TOE WALLS TO BE CONSTRUCTED FULL WIDTH AT EACH END OF DITCH PAVING, AND POURED MONOLITHICALLY.

SOLID SOD ALONG DITCH PAVING TO BE PLACED WITHIN 14 DAYS OF DITCH PAVING CONSTRUCTION.

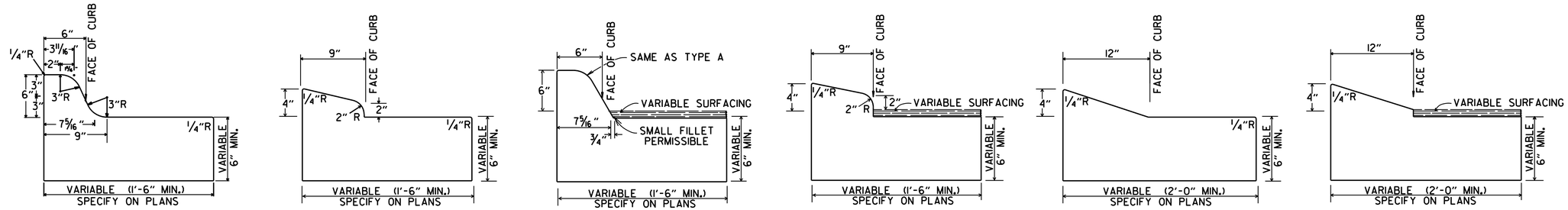
1" WIDE TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE DITCH PAVING AT 45' INTERVALS. THE SPACE SHALL BE FILLED WITH APPROVED JOINT FILLER COMPLYING WITH AASHTO M213.

DATE	REVISION	DATE FILM'D
12-8-16	CORRECTED ENERGY DISSIPATOR DRAWING AND NOTE	
11-17-10	ADDED GENERAL NOTE	
6-2-94	ADDED GENERAL NOTE ABOUT SOLID SODDING	
11-30-89	ELIMINATED MIN. ROWS OF ELEMENTS	111-30-89
7-15-88	REVISED DISSIPATOR NOTE	653-7-15-88
4-3-87	REVISED ENERGY DISSIPATOR	671-4-3-87
1-9-87	MODIFIED NOTE ON ENERGY DISS.	532--1-9-87
11-3-86	ADDED NOTE TO ENERGY DISS.	599-12--1-86
11-1-84	ENERGY DISSIPATOR DETAILS ADDED	508-11--1-84
11-1-84	EXCAVATION DETAILS ADDED TYPED A & B	
10-2-72	REVISED AND REDRAWN	508-10-2-72

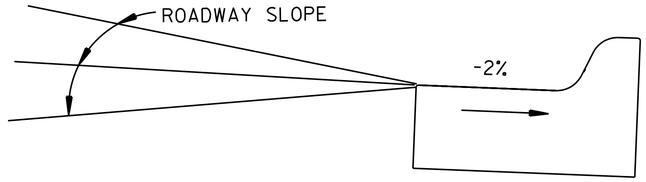
ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE DITCH PAVING

STANDARD DRAWING CDP-1

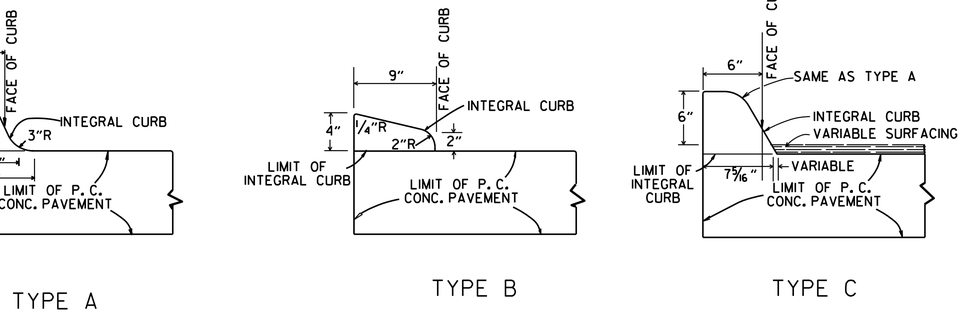


CONCRETE COMBINATION CURB AND GUTTER

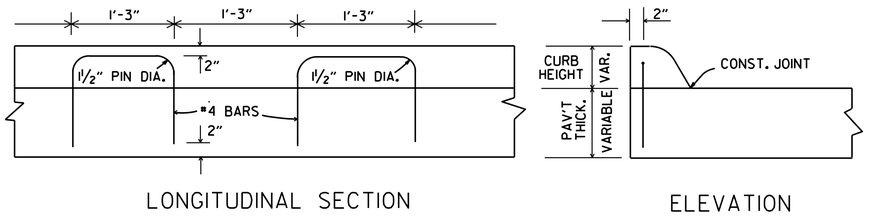


DETAIL OF GUTTER SLOPE

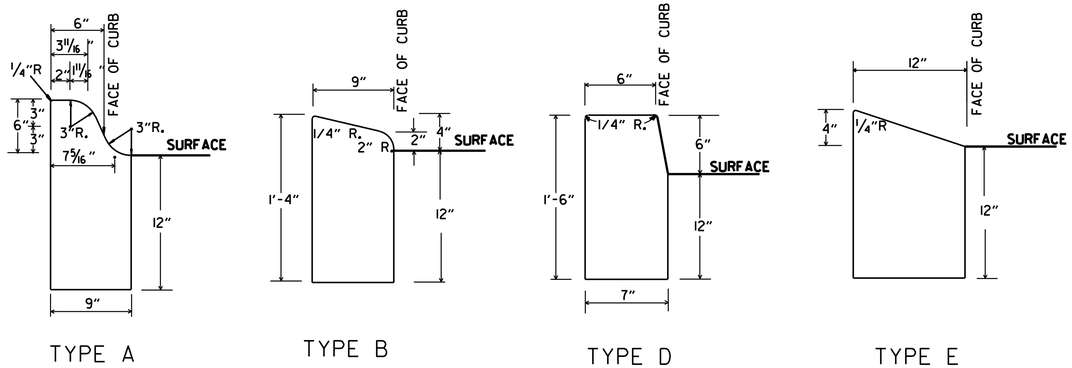
GUTTER SHALL BE CONSTRUCTED ON 2% SLOPE AWAY FROM ROADWAY, REGARDLESS OF ROADWAY SLOPE.



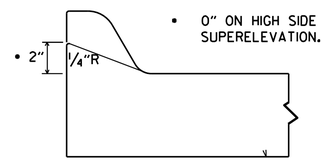
INTEGRAL CURB



ALTERNATE CONSTRUCTION METHOD FOR INTEGRAL CURB



CONCRETE CURB



NOTE: USE MODIFIED CURB AS SPECIFIED ON STD. DR-1. COMPENSATION FOR MODIFIED CURB WILL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE TYPE OF CURB OR CURB AND GUTTER SPECIFIED.

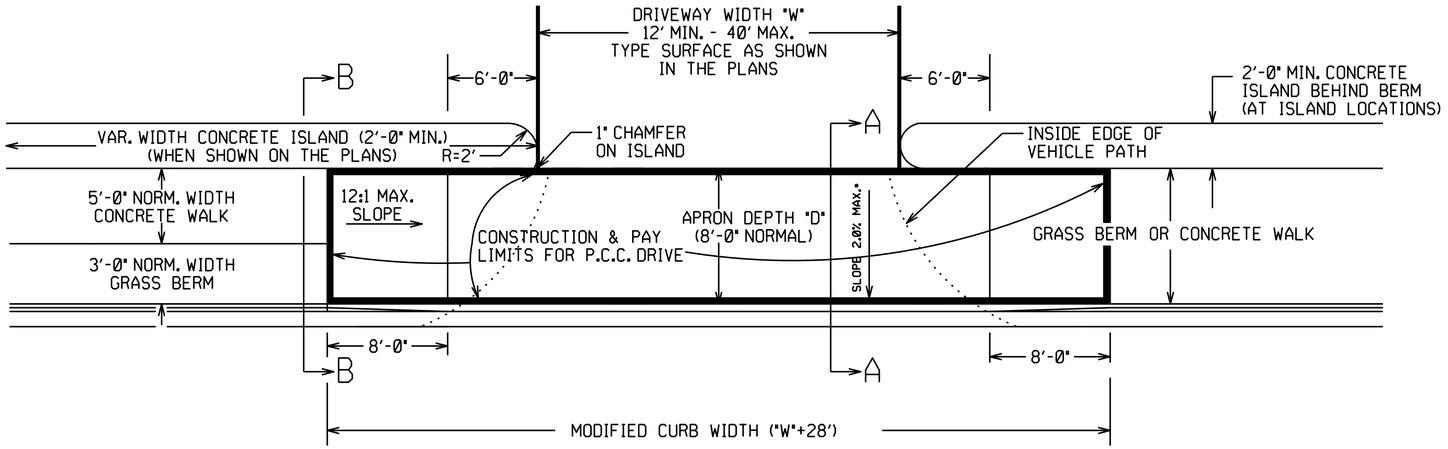
DETAILS OF MODIFIED CURB

DATE	REVISION	DATE FILMED
11-29-07	REVISED GUTTER SLOPE & MODIFIED CURB DETAILS	
11-10-05	ADDED DETAILS OF TYPE E CURBS	
11-16-01	REVISED CONCRETE CURB TYPE B	
11-18-98	REVISED MODIFIED CURB	
6-2-94	ADDED NOTE TO SPECIAL MODIFIED CURB	
8-5-93	CORRECTED GUTTER SLOPE	8-5-93
10-1-92	ADDED DETAILS OF GUTTER SLOPE	10-1-92
5-24-90	ADDED DETAILS OF MODIFIED CURB	5-24-90
11-30-89	VARIBLE DEPTH TYPE A & B I	11-30-89
7-15-88	REVISED MODIFIED CURB	630-7-15-88
11-1-73	REVISED MODIFIED CURB	500-11-1-73
10-2-72	REVISED AND REDRAWN	512-10-2-72

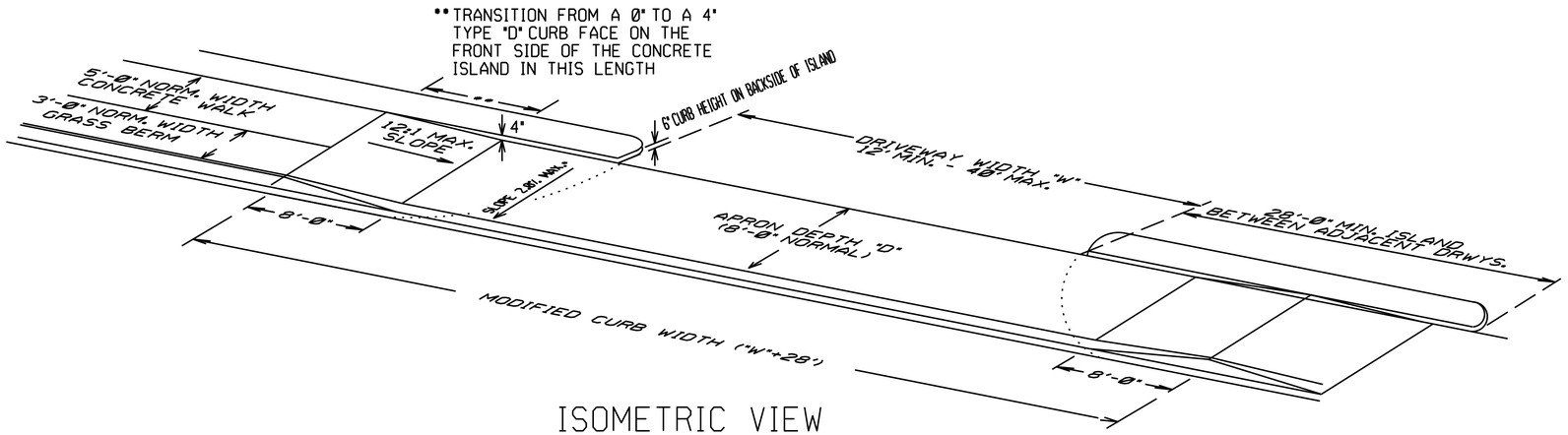
ARKANSAS STATE HIGHWAY COMMISSION

CURBING DETAILS

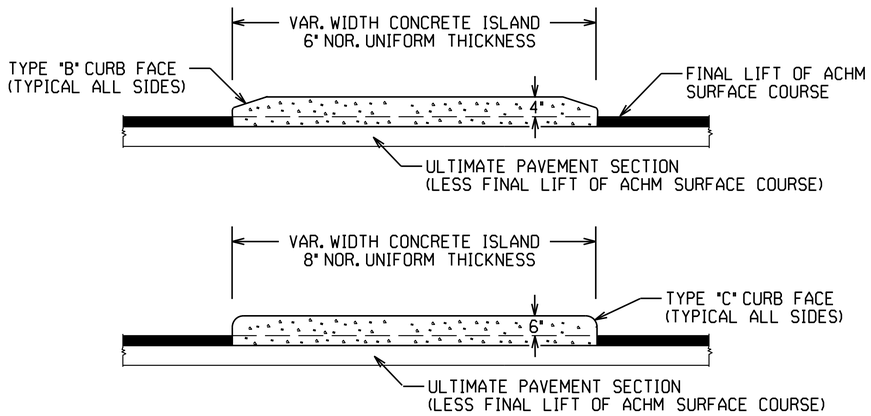
STANDARD DRAWING CG-1



PLAN VIEW

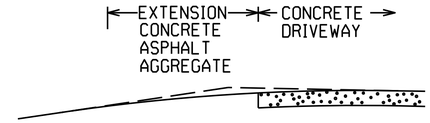


ISOMETRIC VIEW



CURBED ISLANDS FOR CHANNELIZATION

REFER TO PLANS FOR TYPE OF CURB FACE TO BE USED. NO DIRECT PAYMENT WILL BE MADE FOR THE CURB FACES SHOWN ON THE ISLAND DETAILS. PAYMENT FOR THE CURB FACE WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE ITEM "CONCRETE ISLAND".



EXTENSION TYPICAL SECTIONS

1: CONCRETE - 6" P.C. CONCRETE DRIVEWAY

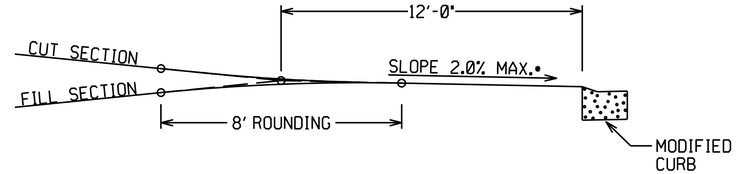
2: ASPHALT - 2" ACHM SURFACE COURSE (1/2")
4" ACHM BINDER COURSE (1") OR
4" ACHM BASE COURSE (1-1/2")

3: ASPHALT - 2" ACHM SURFACE COURSE (1/2")
7" AGGREGATE BASE COURSE

4: AGGREGATE - 6" AGGREGATE BASE COURSE

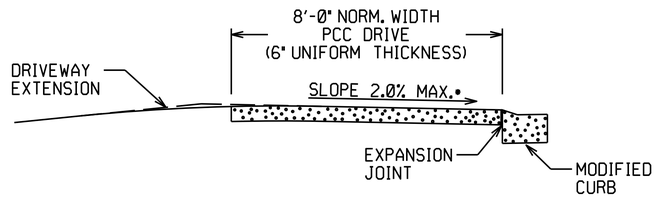
THE TYPE OF EXTENSION SHALL BE AS SHOWN IN THE PLANS. THE CONTRACTOR MAY, WITH THE APPROVAL OF THE ENGINEER, SUBSTITUTE A LOWER NUMBERED TYPE OF EXTENSION IN LIEU OF THE TYPE SPECIFIED IN THE PLANS, BUT AT NO ADDITIONAL COST TO THE DEPARTMENT.

DRIVEWAY EXTENSION DETAILS

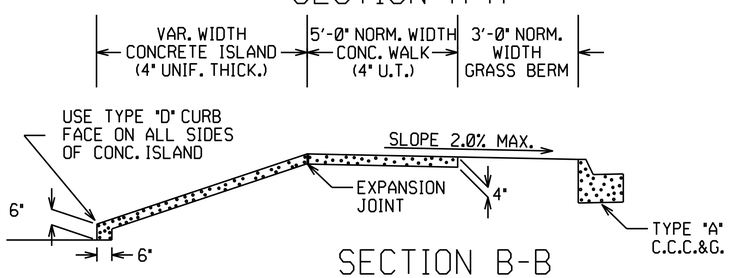


DRIVEWAY VERTICAL ALIGNMENT DETAILS

• NOTE: DRIVEWAYS MAY NOT BE SLOPED AWAY FROM THE ROADWAY UNLESS APPROVED BY THE ENGINEER.



SECTION A-A



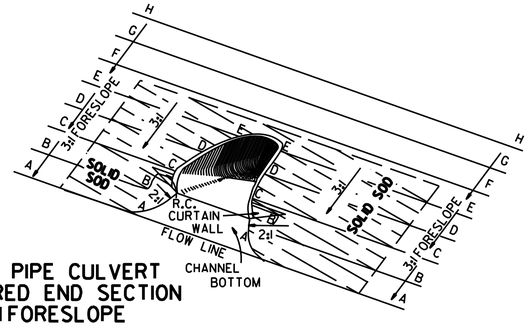
SECTION B-B
CURBED ISLAND BEHIND WALK

DATE REV	DATE FILMED	DESCRIPTION
11-07-19		REVISED WALK DETAILS
2-27-14		REVISED PLAN & ISOMETRIC VIEW
11-29-07		ADDED CHANNELIZATION ISLAND WITH TYPE C CURB FACE & REVISED DRIVEWAY SLOPE NOTE & VERTICAL ALIGNMENT DETAIL
11-10-05		REV. APRON SLOPE & DEPTH OF AGG. BASE.
8-22-02		ADDED ISLAND DETAILS & NOTES
3-30-00		REV. MOD. CURB WIDTH & TRANS. NOTE
11-19-98		REVISED NOTES
11-18-98		REDRAWN AND REISSUED

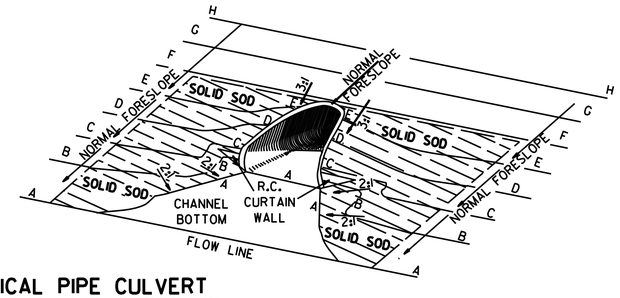
ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DRIVEWAYS & ISLANDS

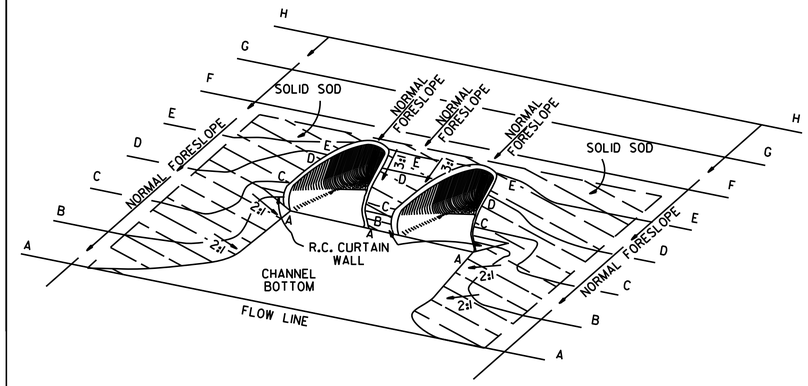
STANDARD DRAWING DR-1



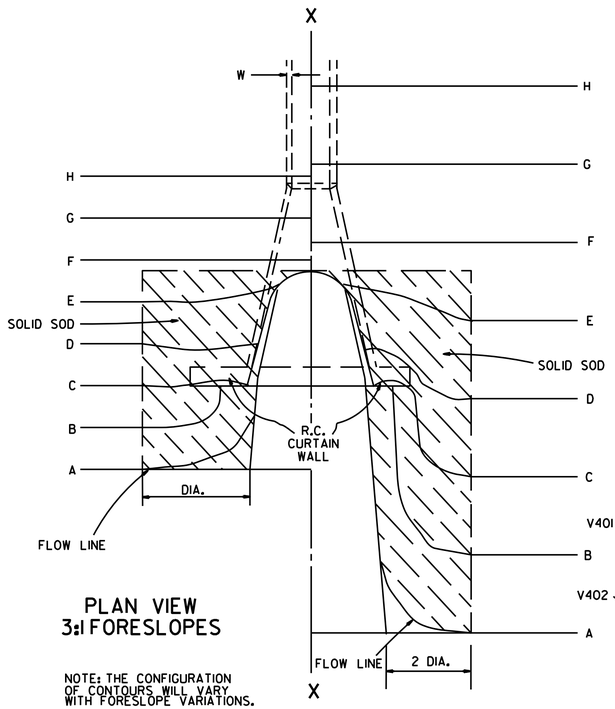
TYPICAL PIPE CULVERT
WITH FLARED END SECTION
& 3:1 FORESLOPE



TYPICAL PIPE CULVERT
WITH FLARED END SECTION
& FLATTENED ADJACENT SLOPES



TYPICAL MULTIPLE PIPE CULVERT
WITH FLARED END SECTIONS
& FLATTENED ADJACENT SLOPES



PLAN VIEW
3:1 FORESLOPES

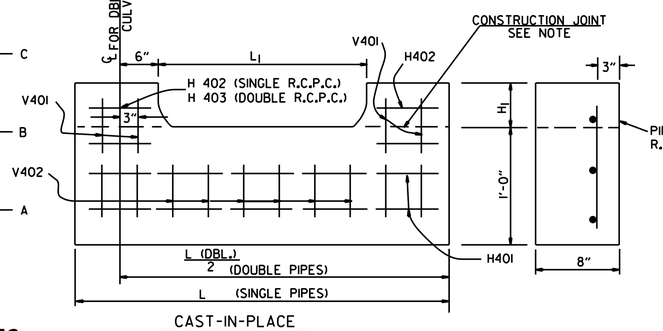
NOTE: THE CONFIGURATION OF CONTOURS WILL VARY WITH FORESLOPE VARIATIONS.

PLAN VIEW
FLATTENED FORESLOPES

R.C. CURTAIN WALL DIMENSIONS & QUANTITIES

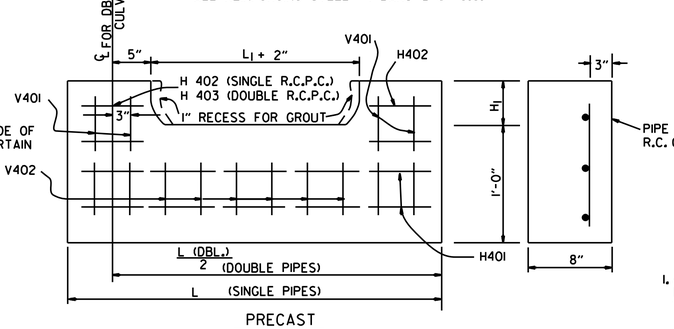
PIPE DIA.	H_1	L_1	L	L (DBL.)/2	SINGLE R.C.P.C. CONC. CU. YDS.	SINGLE R.C.P.C. REINF. STEEL LBS.	DOUBLE R.C.P.C. CONC. CU. YDS.	DOUBLE R.C.P.C. REINF. STEEL LBS.
18"	11½"	3'-5"	8'-0"	6'-3"	0.31	27.7	0.45	39.5
24"	1'-0½"	4'-6"	9'-6"	7'-6"	0.37	33.4	0.53	48.0
30"	1'-3½"	5'-7"	11'-0"	9'-0"	0.45	39.0	0.67	59.0
36"	1'-7"	6'-8"	13'-0"	10'-6"	0.58	52.6	0.83	73.9
42"	2'-1½"	7'-3"	15'-6"	12'-0"	0.82	77.1	1.10	100.7
48"	2'-5"	7'-10"	17'-0"	13'-0"	0.98	94.9	1.27	120.4
54"	2'-9½"	8'-5"	18'-6"	14'-0"	1.16	115.8	1.47	143.7
60"	3'-4"	9'-0"	20'-6"	15'-6"	1.47	149.7	1.84	180.3
72"	4'-5"	10'-2"	25'-6"	18'-6"	2.31	232.6	2.73	271.0

NOTE: QUANTITIES SHOWN ARE FOR ONE (1) CURTAIN WALL.



CAST-IN-PLACE

NOTE: THE PORTION OF THE R.C. CURTAIN WALL BENEATH THE FLARED END SECTION (LOWER 1'-0") SHALL BE PLACED MONOLITHICALLY. THE FLARED END SECTION SHALL THEN BE SET IN PLACE & THE REMAINING PORTIONS OF THE R.C. CURTAIN WALL PLACED.



PRECAST

NOTE: THE PRECAST CURTAIN WALL WILL BE SET AND BACKFILLED WITH COMPACTED MATERIAL. THE FLARED END SECTION SHALL THEN BE SET IN PLACE AND THE 1" RECESS FILLED WITH GROUT. WHERE "L" EXCEEDS 11' THE CURTAIN WALL MAY BE CAST IN TWO (2) OR MORE SECTIONS. THE METHOD OF JOINING THE SECTIONS FOR INSTALLATION SHALL BE APPROVED BY THE ENGINEER.

REINFORCING STEEL SCHEDULE

PIPE DIA.	SINGLE R.C. PIPE CULVERT H401 L	H401 NO.	H402 L	H402 NO.	V401 L	V401 NO.	V402 L	V402 NO.	DOUBLE R.C. PIPE CULVERT H401 L	H401 NO.	H402 L	H402 NO.	H403 L	H403 NO.	V401 L	V401 NO.	V402 L	V402 NO.
18"	7'-8"	2	1'-11½"	4	1'-7½"	8	8"	8	12'-2"	2	1'-11½"	4	8"	2	1'-7½"	10	8"	14
24"	9'-2"	2	2'-2"	4	1'-8½"	10	8"	9	14'-8"	2	2'-2"	4	8"	2	1'-8½"	12	8"	18
30"	10'-8"	2	2'-4½"	4	1'-11½"	10	8"	12	17'-8"	2	2'-4½"	4	8"	2	1'-11½"	14	8"	22
36"	12'-8"	2	2'-10"	6	2'-3"	12	8"	14	20'-8"	2	2'-10"	6	8"	3	2'-3"	14	8"	28
42"	15'-2"	2	3'-9½"	8	2'-9½"	16	8"	15	23'-8"	2	3'-9½"	8	8"	4	2'-9½"	18	8"	30
48"	16'-8"	2	4'-3"	10	3'-1"	18	8"	16	25'-8"	2	4'-3"	10	8"	5	3'-1"	20	8"	32
54"	18'-2"	2	4'-8½"	12	3'-5½"	20	8"	17	27'-8"	2	4'-9"	12	8"	6	3'-5½"	22	8"	34
60"	20'-2"	2	5'-5"	14	4'-0"	24	8"	18	30'-8"	2	5'-5"	14	8"	7	4'-0"	26	8"	36
72"	25'-2"	2	7'-4"	18	5'-1"	30	8"	20	36'-8"	2	7'-4"	18	8"	9	5'-1"	33	8"	40

ALL REINFORCING STEEL #4 BARS @ 6" O.C.

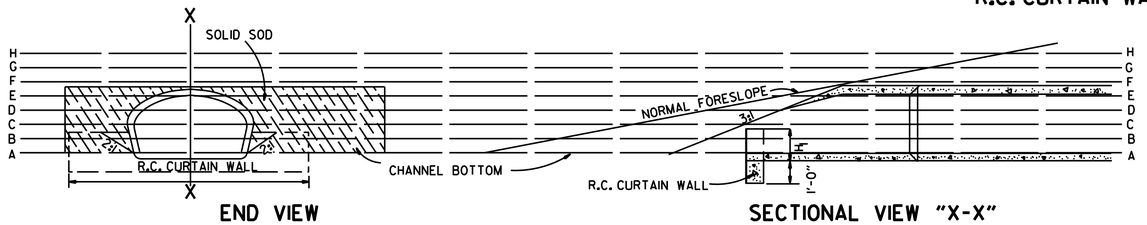
SOLID SODDING

PIPE DIA.	SINGLE R.C.P.C. 3:1 SQ. YDS.	SINGLE R.C.P.C. 4:1 SQ. YDS.	SINGLE R.C.P.C. 6:1 SQ. YDS.	DOUBLE R.C.P.C. 3:1 SQ. YDS.	DOUBLE R.C.P.C. 4:1 SQ. YDS.	DOUBLE R.C.P.C. 6:1 SQ. YDS.
18"	5	7	12	6	8	13
24"	8	12	19	9	13	20
30"	13	18	29	14	19	30
36"	17	26	41	18	28	43
42"	23	35	55	25	37	57
48"	29	46	68	31	48	70
54"	35	57	85	37	59	87
60"	45	62	104	48	65	107
72"	64	92	156	67	95	159

NOTE: QUANTITIES SHOWN ABOVE ARE FOR ONE (1) END OF F.E.S.

GENERAL NOTES

1. A CAST-IN-PLACE OR PRECAST CURTAIN WALL MAY BE USED. PAYMENT FOR THE CURTAIN WALL SHALL BE CONSIDERED TO BE INCLUDED IN THE UNIT PRICE BID EACH FOR FLARED END SECTIONS OF THE SEVERAL SIZES, WHICH PRICE SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIALS INCLUDING REINFORCING STEEL AND CONCRETE: FOR FORMS, MIXING AND PLACING; FOR EXCAVATION AND BACKFILL, AND FOR ALL LABOR, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.
2. ALL EXPOSED EDGES SHALL BE CHAMFERED ¾".
3. CONCRETE FOR CURTAIN WALL SHALL MEET THE REQUIREMENTS FOR CLASS A OR S CONCRETE AS PROVIDED IN SECTION 802 OF THE STANDARD SPECIFICATIONS OR FOR PAVING CONCRETE AS PROVIDED IN SECTION 501 OF THE STANDARD SPECIFICATIONS.
4. WELDED WIRE MESH 3 x 3 W.10 x W10 MAY BE USED IN LIEU OF REINFORCING BARS.



END VIEW

SECTIONAL VIEW "X-X"

R.C. CURTAIN WALL DETAILS

DATE	REVISION	FILMED
10-18-96	ADDED NOTE TO SOLID SODDING	
10-12-95	CORRECTED SPELLING	
11- 3-94	ADDED GENERAL NOTE NO. 4	
8-15-91	REV. CURTAIN WALL QUANT. STEEL SCH. & SOLID SOD QUANT.	
3-2-81	ALLOW PRECAST IN 2 OR MORE PIECES CHAMFER EDGES	
5-15-80	ADDED PRECAST WALL & GENERAL NOTES	
10-2-72	REVISED AND REDRAWN	

ARKANSAS STATE HIGHWAY COMMISSION

FLARED END SECTION

STANDARD DRAWING FES-1

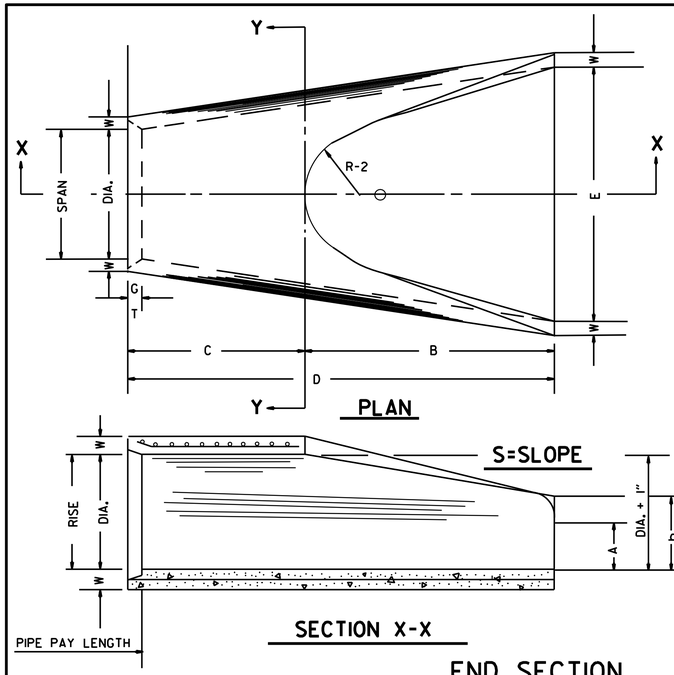
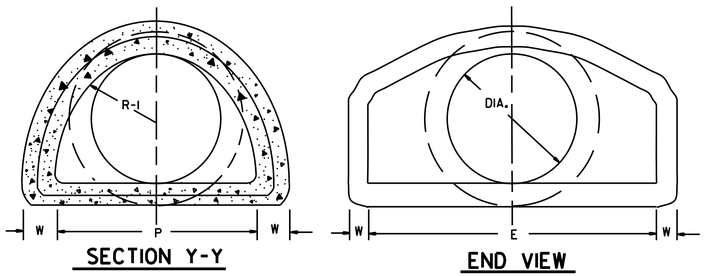


TABLE OF DIMENSIONS

DIA.	WALL	A	B	C	D	E	S	DIA. + 1"	P	R-1	R-2	G-T	WT.	h
18"	2½"	9"	2'-3"	3'-10"	6'-1"	3'-0"	3:1	19"	29"	15½"	12"	2"	1000	1'-0½"
24"	3"	9½"	3'-7½"	2'-6"	6'-1½"	4'-0"	3:1	25"	33⅜"	16⅛"	14"	2½"	1600	1'-1½"
30"	3½"	1'-0"	4'-6"	1'-7¾"	6'-1¾"	5'-0"	3:1	31"	37"	18½"	15"	3¼"	1940	1'-4⅝"
36"	4"	1'-3"	5'-3"	2'-10¾"	8'-1¾"	6'-0"	3:1	37"	47⅛"	24⅝"	20"	3½"	4100	1'-8"
42"	4½"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"	3:1	43"	53⅞"	27½"	22"	3½"	5380	2'-2½"
48"	5"	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"	3:1	49"	56½"	28½"	22"	3½"	6550	2'-6"
54"	5½"	2'-4"	6'-6"	1'-10"	8'-4"	7'-6"	3:1	55"	65½"	33⅜"	24"	4"	8750	2'-10½"
60"	6"	2'-10"	6'-6"	1'-10"	8'-4"	8'-0"	3:1	61"	72½"	36⅛"	24"	4"	9270	3'-5"
72"	7"	3'-10"	6'-6"	1'-10"	8'-4"	9'-0"	3:1	73"	77⅛"	38⅝"	24"	5"	13250	4'-6"



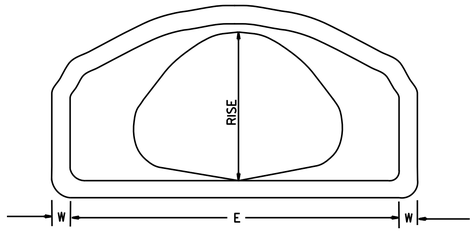
NOTE: TONGUE END ON UPSTREAM SECTION
GROOVE END ON DOWNSTREAM SECTION

END SECTION
FOR REINFORCED CONCRETE PIPE CULVERTS

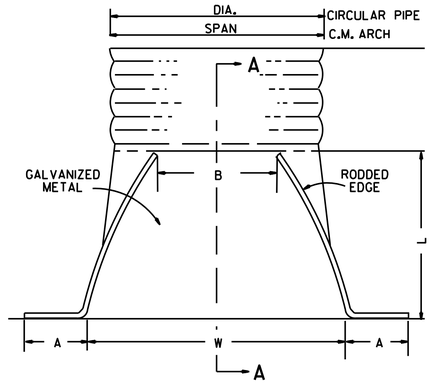
ARCH PIPE

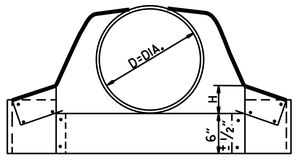
EQUIV. DIA.	• SPAN AASHTO M 206	• SPAN AHD NOMINAL	• RISE AASHTO M 206	• RISE AHD NOMINAL	W	A	B	C	D	E	P	R2	G-T	S
	INCHES													
15	18	18	11	11	2"	4"	2'-0"	4'-0"	6'-0"	3'-0"	29"	12"	1½"	2½:1
18	22	22	13½	14	2½"	5"	2'-0"	4'-1"	6'-1"	3'-6"	32⅛"	13"	2½"	2½:1
21	26	26	15½	16	2¾"	7"	2'-3"	3'-10"	6'-1"	4'-0"	34⅛"	14"	2½"	2½:1
24	28½	29	18	18	3"	9"	2'-3"	3'-10"	6'-1"	5'-0"	36⅛"	15"	2½"	2½:1
30	36¼	36	22½	23	3½"	10"	3'-1"	3'-0½"	6'-1½"	6'-0"	47⅛"	20"	3"	2½:1
36	43¾	44	26⅝	27	4"	10½"	4'-0"	2'-1½"	6'-1½"	6'-6"	54⅜"	22"	3½"	2½:1
42	51⅛	51	31⅝	31	4½"	11½"	4'-7"	1-10¼"	6'-5¼"	7'-2"	59½"	23"	3¾"	2½:1
48	58½	59	36	36	5"	1'-3"	5'-3"	2'-10¾"	8'-1¾"	7'-10"	70⅜"	24"	4¼"	2½:1
54	65	65	40	40	5½"	1'-7"	5'-3"	2'-11"	8'-2"	8'-6"	72⅛"	24"	4¾"	2¼:1
60	73	73	45	45	6"	1'-10"	5'-6"	2'-8"	8'-2"	9'-0"	77⅛"	24"	5"	2¼:1

• THE MEASURED SPAN AND RISE SHALL NOT VARY MORE THAN ± 2 PER CENT FROM THE VALUES SPECIFIED BY AASHTO M 206.



END VIEW
CONCRETE ARCH PIPE

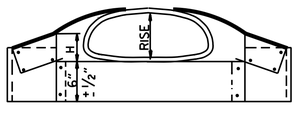




CIRCULAR PIPE

CIRCULAR PIPE

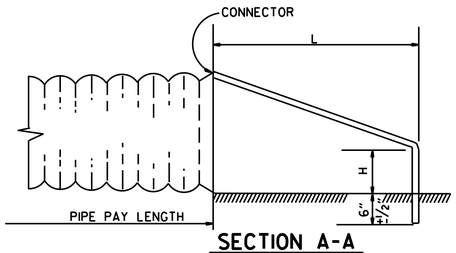
D. DIA.	GAUGE	A 1" ±	B. MAX.	H 1" ±	L 1½" ±	W 2" ±	S
		INCHES					
12	16	6	6	6	21	24	2½:1
15	16	7	8	6	26	30	2½:1
18	16	8	10	6	31	36	2½:1
21	16	9	12	6	36	42	2½:1
24	16	10	13	6	41	48	2½:1
30	14	12	16	8	51	60	2½:1
36	14	14	19	9	60	72	2½:1
42	12	16	22	11	69	84	2½:1
48	12	18	27	12	78	90	2½:1
54	12	18	30	12	84	102	2:1
60	12	18	33	12	87	114	1¾:1
66	12	18	36	12	87	120	1½:1
72	12	18	39	12	87	126	1 1/3:1



C.M. ARCH PIPE

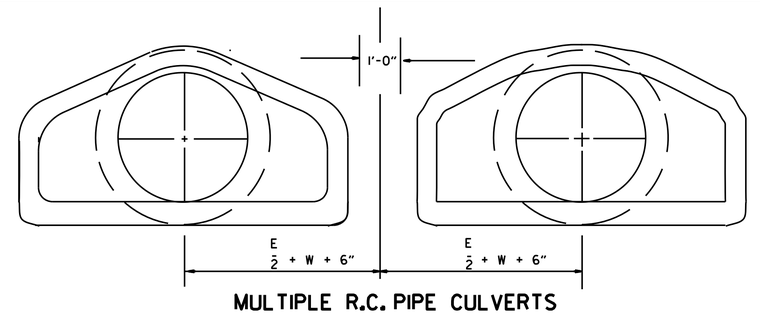
C.M. ARCH PIPE

EQUIV. DIA.	SPAN	RISE	A 1" ±	B MAX.	H 1" ±	L 1½" ±	W 2" ±	S	GAUGE
	INCHES								
15"	17	13	7	9	6	19	30	2½:1	16
18"	21	15	7	10	6	23	36	2½:1	16
21"	24	18	8	12	6	28	42	2½:1	16
24"	28	20	9	14	6	32	48	2½:1	16
30"	35	24	10	16	6	39	60	2½:1	14
36"	42	29	12	18	8	46	75	2½:1	14
42"	49	33	13	21	9	53	85	2½:1	12
48"	57	38	18	26	12	63	90	2½:1	12
54"	64	43	18	30	12	70	102	2¼:1	12
60"	71	47	18	33	12	77	114	2¼:1	12

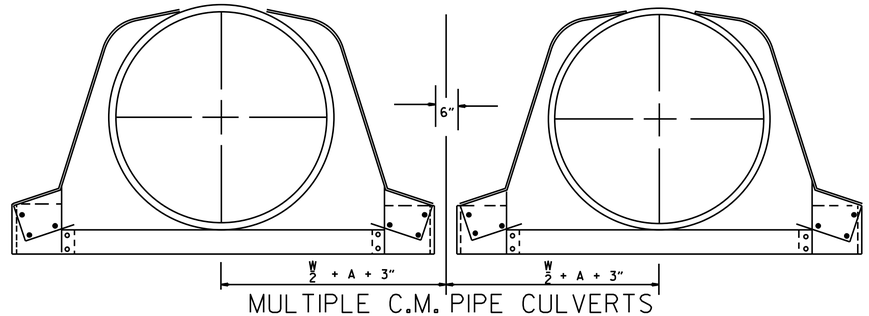


NOTE: ALTERNATE CONNECTIONS TO THE PIPE CULVERTS, IN ACCORDANCE WITH MANUFACTURER'S STANDARD PRACTICES, MAY BE MADE SUBJECT TO THE APPROVAL OF THE ENGINEER.

END SECTIONS FOR CORRUGATED METAL PIPE CULVERTS



MULTIPLE R.C. PIPE CULVERTS



MULTIPLE C.M. PIPE CULVERTS

DATE	REVISION	FILMED
10-18-96	REVISED ASTM REF. TO AASHTO	
5-15-80	REVISED DISTANCE BETWEEN MULTIPLE R.C.P. F.E.S.	664-5-15-80
7-14-78	C.M. ARCH SIZES TO CONFORM WITH AASHTO SIZES	752-7-14-78
8-22-75	ADDED MULTIPLE PIPE CULVERTS	517-8-22-75
12-5-74	REMOVED NOTE RE REINF. FOR R.C. F.E.S.	500-12-5-74
5-24-73	CMP END SECTION, SHOW PIPE PAY LENGTH	627-5-24-73
10-2-72	REVISED AND REDRAWN	760-10-2-72

ARKANSAS STATE HIGHWAY COMMISSION

FLARED END SECTION

STANDARD DRAWING FES-2

4'-0" LENGTH DROP INLET

PIPE SIZE	MIN. WIDTH	HEIGHT 5'-0" CLASS A CONC. CU. YDS.	HEIGHT 5'-0" REINF. STEEL POUNDS	PLUS OR MINUS PER LIN. FT. OF HEIGHT CLASS A CONC. CU. YDS.	PLUS OR MINUS PER LIN. FT. OF HEIGHT REINF. STEEL POUNDS
18"	2'-6"	1.77	156	0.28	22
24"	2'-6"	1.79	156	0.28	22
30"	3'-2"	2.39	205	0.30	26
36"	3'-8"	2.63	236	0.32	28
42"	4'-4"	2.95	250	0.34	30
48"	4'-10"	3.21	265	0.36	32

NOTE: QUANTITIES ARE APPROXIMATE AND ARE SHOWN FOR BIDDER INFORMATION ONLY.

DROP INLET EXTENSION

4'-0" CLASS A CONC. CU. YDS.	4'-0" REINF. STEEL POUNDS	8'-0" CLASS A CONC. CU. YDS.	8'-0" REINF. STEEL POUNDS
0.58	38	0.87	72

DEDUCT FROM QUANTITY COMPUTED FOR EACH EXTENSION ADDED.

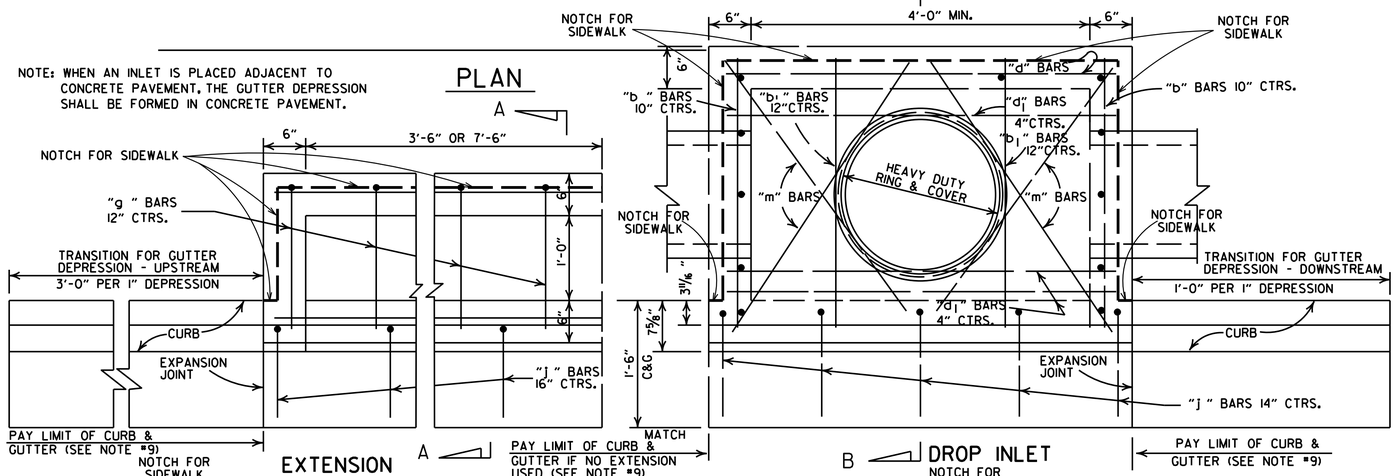
0.04	3		

DEDUCT FROM QUANTITY COMPUTED FOR EACH PIPE ENTERING INLET

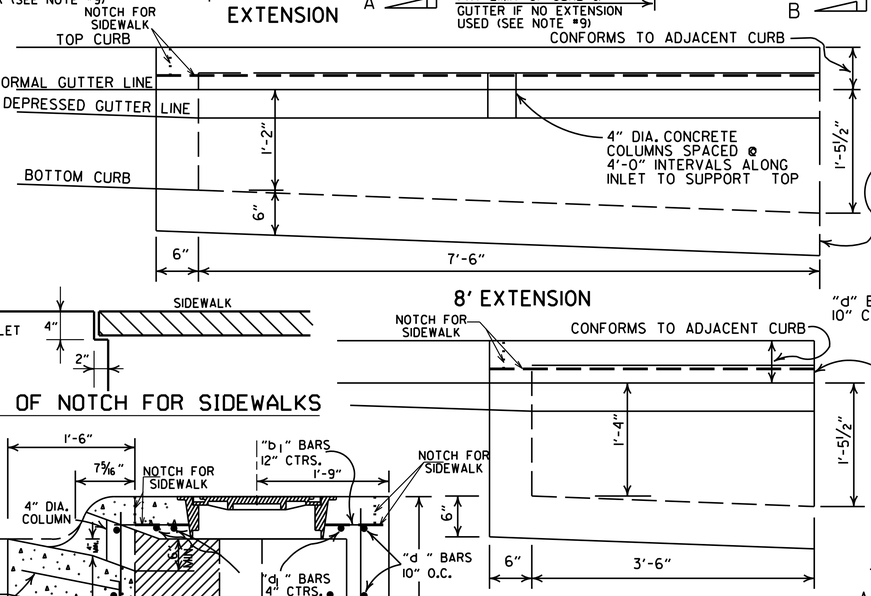
INSIDE DIA. PIPE	CLASS A CONC.	REINF. STEEL
INCHES	CU. YDS.	POUNDS
18	0.05	2
24	0.09	3
30	0.13	4
42	0.24	8

PLAN

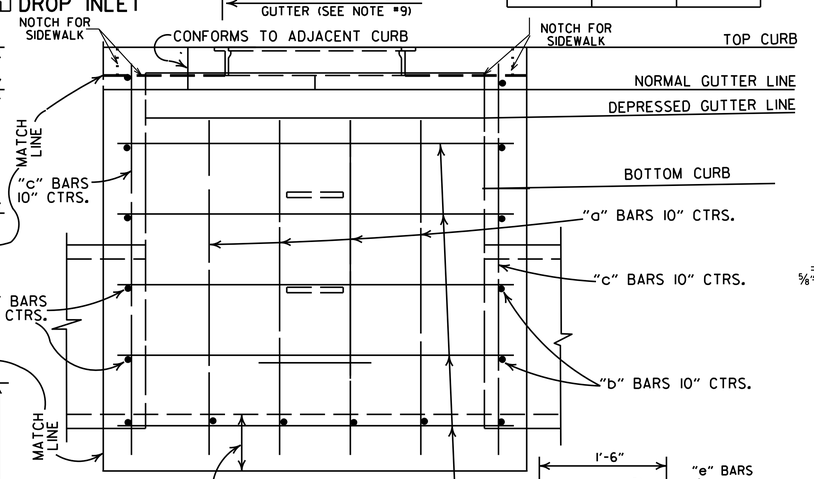
NOTE: WHEN AN INLET IS PLACED ADJACENT TO CONCRETE PAVEMENT, THE GUTTER DEPRESSION SHALL BE FORMED IN CONCRETE PAVEMENT.



EXTENSION

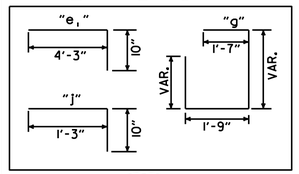


DROP INLET

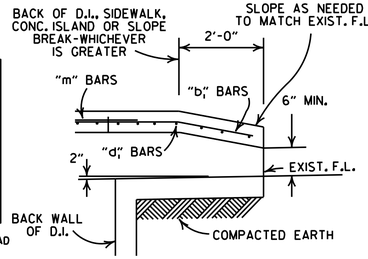


ELEVATION

BAR DIAGRAM

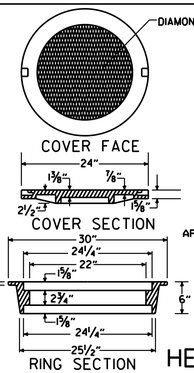


BACK OPENING



WHEN OPENING IN BACK IS CALLED FOR ON PLANS EXTEND OPENING AS SHOWN IN DETAIL. PAYMENT TO BE INCLUDED IN PRICE BID FOR DROP INLET (TYPE C).

HEAVY DUTY RING & COVER

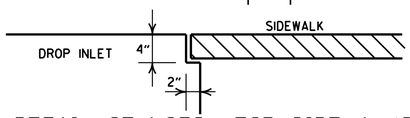


APPROXIMATE TOTAL WEIGHT = 333 LBS.

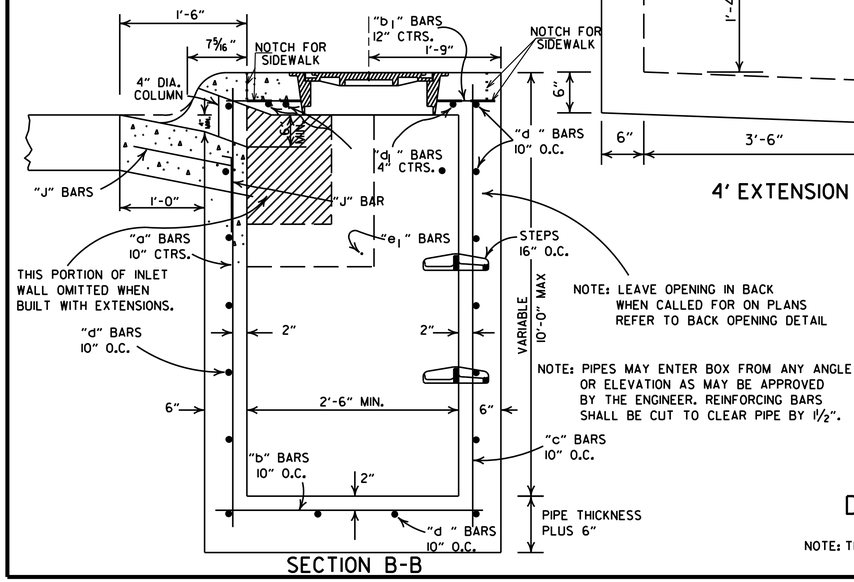
GENERAL NOTES:

1. ALL EXPOSED CORNERS TO HAVE ¾" CHAMFER.
2. STEPS SHALL BE INSTALLED IN ALL INLETS 4'-0" HIGH AND OVER OF AS APPROVED BY THE ENGINEER.
3. ALL REINF. BARS SHALL BE #4 AND HAVE 1½" COVER.
4. DROP INLETS AND EXTENSION ON CURVED SECTIONS SHALL CONFORM TO THE CURVATURE OF THE CURB.
5. THIS DROP INLET MAY BE CONSTRUCTED ON NEW OR EXISTING R.C. BOX CULVERT AS SHOWN ON F.P.C.-9.
6. WHEN PLANS CALL FOR DROP INLET OVER 10'-0" HIGH, FLOOR AND WALLS SHALL BE CONSTRUCTED AS SHOWN FOR TYPE "RM" DROP INLET (FPC-9D).
7. HEAVY DUTY RING SHALL ALWAYS BE INSTALLED WITH FLANGE ON TOP.
8. DURING CONSTRUCTION OF THE ROADWAY THE CONTRACTOR SHALL MAINTAIN DRAINAGE INTO OR AROUND THE DROP INLET AS APPROVED BY THE ENGINEER.
9. PAYMENT FOR CURB AND/OR CURB AND GUTTER WITHIN THE LIMITS OF DROP INLETS AND DROP INLET EXTENSIONS SHALL BE CONSIDERED INCLUDED IN PAYMENT MADE FOR DROP INLETS AND/OR DROP INLET EXTENSIONS.
10. HEAVY DUTY RING AND COVER SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M105 CLASS 35B & AASHTO M306.
11. HEAVY DUTY RING AND COVER SHALL NOT BE PAINTED.
12. 4"x2" NOTCH SHALL BE FORMED IN ALL DROP INLETS TO SUPPORT SIDEWALK CONSTRUCTION. REFER TO DETAIL OF NOTCH FOR SIDEWALKS.
13. DIMENSIONS SHOWN FOR RING AND COVER ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR CASTINGS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR CASTING DESIGNS MAY BE MADE BY REFERRING TO PREVIOUSLY APPROVED DRAWINGS.

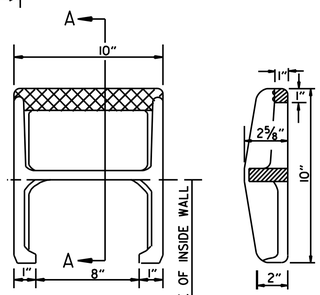
DETAIL OF NOTCH FOR SIDEWALKS



SECTION B-B



DETAIL OF STEP FOR DROP INLET

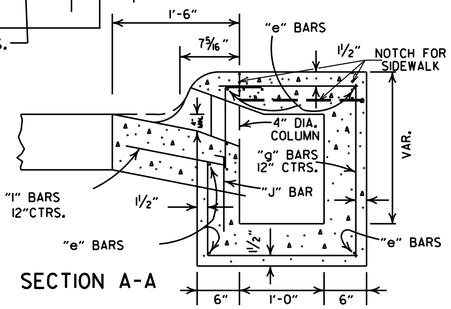


PLAN SECTION A-A

APPROX. WEIGHT = 11 LBS. (CAST IRON)

NOTE: THIS DETAIL IS TYPICAL. OTHERS MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER.

SECTION A-A



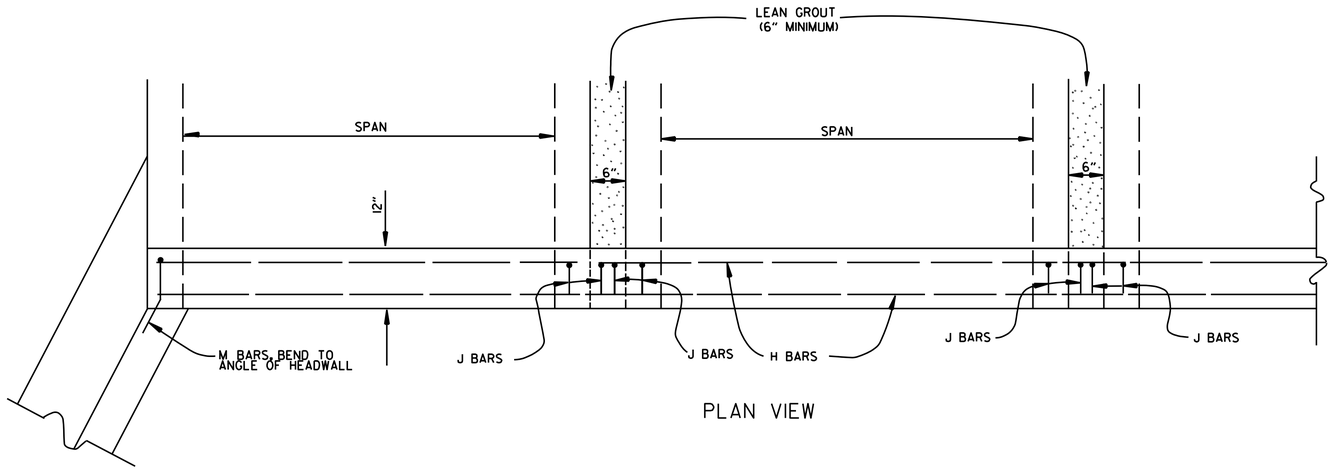
DATE REV.	REVISION	DATE FILMED
8-22-02	ADDED PAY LIMIT CURB NOTES TO SECTIONS A-A & B-B	
11-16-01	ADDED NOTE 13; REVISED SECTION B-B	
1-12-00	CORRECTED DIMENSION ON SECTION B-B & REVISED RING & COVER	
5-13-99	ADDED DETAIL OF NOTCH FOR SIDEWALKS	
7-02-98	REPLACED RING & COVER W/HEAVY DUTY RING & COVER ADDED NOTES 9,10,&11	
10-18-96	CORRECTED SPELLING	
4-26-96	ADDED NOTE 8 & REVISED (4')(8') EXTENSION TITLES	10-18-96
4-1-93	REVISED BACK OPENING & NOTE	
8-15-91	DELETE TYPE IV GRATE	
7-15-88	REVISED STEP DETAIL	
5-20-83	REVISED DETAILS OF GRATES (TYPE IV & IV-A)	
2-4-83	ADDED GENERAL NOTE NO. 4	
3-2-81	ADDED TYPE IV-A GRATE	
5-22-74	DELETED INLET (TYPE F) & GRATE (TYPE III)	
10-2-72	REVISED AND REDRAWN	

ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DROP INLETS

(TYPE C)

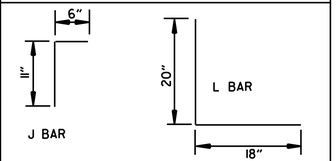
STANDARD DRAWING FPC-9E



PLAN VIEW

BAR LIST

BAR	NO.	SIZE	LENGTH	BAR BENDING DIAGRAM
H	2	#4	•	
I	•	#4	•	
J	•	#4	1'-5"	
L	•	#4	3'-2"	
M	•	#4	1'-8"	



• NOTE: LENGTH AND NUMBER OF BARS VARIES WITH SIZE OF CULVERT

GENERAL NOTES

WINGS, CURTAIN WALLS AND APRONS SHALL BE TIED TO THE PRECAST CULVERT SECTION BY CASTING BARS IN CULVERT END SECTIONS AS SHOWN OR BY DOWELING AND GROUTING. J BARS AND M BARS SHALL BE EMBEDDED A MINIMUM OF 10" IN PRECAST BOX.

WINGS, FOOTINGS, APRONS AND CURTAIN WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE WING DRAWING. STEEL AND CONCRETE QUANTITIES WILL BE ADJUSTED TO FIT THE IN-PLACE WIDTH & HEIGHT OF THE PRECAST CONCRETE BOX CULVERTS.

ALL EXPOSED CORNERS TO HAVE ¾" CHAMFERS.

WINGWALLS AND FOOTINGS MAY BE ADJUSTED IN THE FIELD AS DIRECTED BY THE ENGINEER.

ALL CONCRETE, REINFORCING STEEL, LEAN GROUT, MEMBRANE WATERPROOFING, DRAINAGE FILL MATERIAL, GEOTEXTILE FILTER FABRIC, LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR INSTALLING PRECAST BOX CULVERTS WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID FOR THE ITEMS AS SPECIFIED IN SECTION 607 OF THE STANDARD SPECIFICATIONS.

LEAN GROUT SHALL CONSIST OF A SAND CEMENT MIXTURE MEETING THE FOLLOWING REQUIREMENTS:
PORTLAND CEMENT SHALL BE TYPE I AND SHALL MEET THE REQUIREMENTS OF AASHTO M 85.
SAND SHALL MEET THE REQUIREMENTS OF FINE AGGREGATE AS SPECIFIED IN SECTION 802.02 OF THE STANDARD SPECIFICATIONS.
THE SAND CEMENT MIXTURE SHALL CONSIST OF NOT LESS THAN 1.5 SACKS OF PORTLAND CEMENT PER TON OF MATERIAL MIXTURE.
THE MIXTURE SHALL CONTAIN SUFFICIENT WATER TO HYDRATE THE CEMENTS. THE SAND CEMENT MIXTURE SHALL BE PLACED IN MAXIMUM 8 INCH THICK LIFTS, LOOSE MEASURE, AND THOROUGHLY RODDED AND TAMPED AROUND BOX TO THOROUGHLY FILL ALL VOIDS.

MEMBRANE WATERPROOFING CONFORMING TO THE REQUIREMENTS OF SECTION 815 OF THE STANDARD SPECIFICATIONS SHALL BE APPLIED TO ALL BOX CULVERT JOINTS.

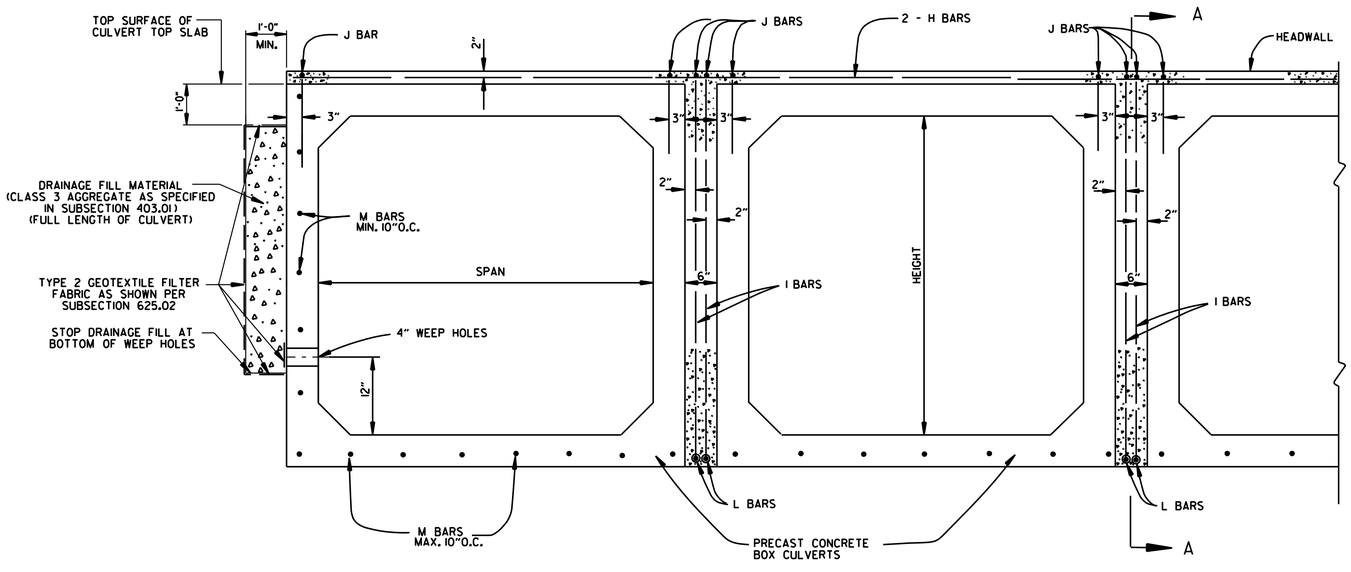
THE MEMBRANE WATERPROOFING WILL BE REQUIRED ON THE TOP EXTERNAL JOINT AND SHALL EXTEND 1 FOOT DOWN THE SIDES OF THE CULVERT.

IN OUTER BARRELS, ONE WEEP HOLE IS REQUIRED IN EXTERIOR WALLS OF EACH PRECAST CULVERT SECTION. WEEP HOLES SHALL HAVE A MAXIMUM HORIZONTAL SPACING OF 10'-0" IN THE ASSEMBLED CULVERT 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.

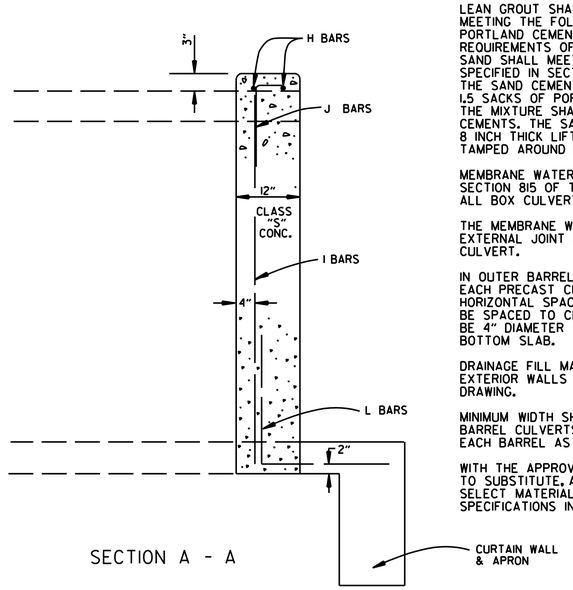
DRAINAGE FILL MATERIAL WITH GEOTEXTILE FABRIC IS REQUIRED AT THE EXTERIOR WALLS OF THE ASSEMBLED CULVERT, SEE DETAILS ON THIS DRAWING.

MINIMUM WIDTH SHALL BE 12" (6" ON EACH SIDE OF JOINT). ON MULTIPLE BARREL CULVERTS, MEMBRANE WATERPROOFING SHALL BE APPLIED TO EACH BARREL AS DESCRIBED ABOVE.

WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR WILL BE ALLOWED TO SUBSTITUTE, AT NO ADDITIONAL COST TO THE DEPARTMENT, FLOWABLE SELECT MATERIAL CONFORMING TO SECTION 206 OF THE STANDARD SPECIFICATIONS IN LIEU OF LEAN GROUT.



END VIEW



SECTION A - A

DATE	REVISION	DATE FILMED
1-28-15	REVISED GEOTEXTILE FABRIC PLACEMENT	
12-15-11	ADDED NOTE & DTLS FOR WEEP HOLE AND DRAINAGE FILL	
10-15-09	ADDED GENERAL NOTE	
11-10-05	REVISED SPACING OF "M" BARS	
4-10-03	REVISED GENERAL NOTES	
10-18-96	CORRECTED AASHTO REF.	
10-1-92	ADDED NOTE FOR MEMBRANE WATERPROOFING	
8-15-91	ADDED NOTE FOR LEAN GROUT	
11- 8-90	REVISED FOR 1991 SPECS	
11-30-89	ISSUED; JABE	

ARKANSAS STATE HIGHWAY COMMISSION

PRECAST CONCRETE BOX CULVERTS

STANDARD DRAWING PBC-1

REINFORCED CONCRETE ARCH PIPE DIMENSIONS

EQUIV. DIA.	SPAN		RISE	
	AASHTO M 206	ARDOT NOMINAL	AASHTO M 206	ARDOT NOMINAL
INCHES	INCHES			
15	18	18	11	11
18	22	22	13½	14
21	26	26	15½	16
24	28½	29	18	18
30	36¼	36	22½	23
36	43⅜	44	26⅝	27
42	51⅛	51	31⅝	31
48	58½	59	36	36
54	65	65	40	40
60	73	73	45	45
72	88	88	54	54
84	102	102	62	62
90	115	115	72	72
96	122	122	77½	77
108	138	138	87⅛	87
120	154	154	96⅞	97
132	168¾	169	106½	107

THE MEASURED SPAN AND RISE SHALL NOT VARY MORE THAN ± 2 PERCENT FROM THE VALUES SPECIFIED BY AASHTO M206.

REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE DIMENSIONS

EQUIV. DIA.	AASHTO M 207	
	SPAN	RISE
INCHES	INCHES	
18	23	14
24	30	19
27	34	22
30	38	24
33	42	27
36	45	29
39	49	32
42	53	34
48	60	38
54	68	43
60	76	48
66	83	53
72	91	58
78	98	63
84	106	68

THE MEASURED SPAN AND RISE SHALL NOT VARY MORE THAN ± 2 PERCENT FROM THE VALUES SPECIFIED BY AASHTO M207.

CONSTRUCTION SEQUENCE

1. PLACE STRUCTURAL BEDDING MATERIAL TO GRADE. DO NOT COMPACT.
2. INSTALL PIPE TO GRADE.
3. COMPACT STRUCTURAL BEDDING OUTSIDE THE MIDDLE THIRD OF THE PIPE.
4. PLACE AND COMPACT THE HAUNCH AREA UP TO THE MIDDLE OF THE PIPE.
5. COMPLETE BACKFILL ACCORDING TO SUBSECTION 606.03.(f)(1).

NOTE: HAUNCH AND STRUCTURAL BEDDING MATERIAL WILL NOT BE PAID FOR SEPARATELY, BUT COMPENSATION WILL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF CONCRETE PIPE.

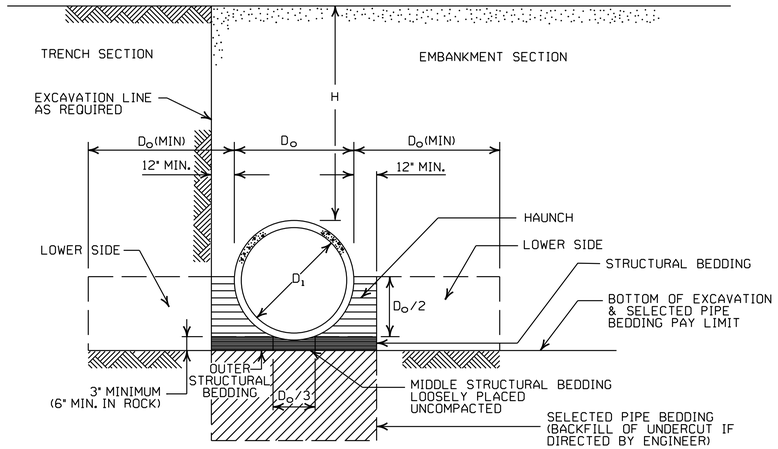
- LEGEND -

D_1 = NORMAL INSIDE DIAMETER OF PIPE
D_o = OUTSIDE DIAMETER OF PIPE
H = FILL COVER HEIGHT OVER PIPE (FEET)
MIN. = MINIMUM
= UNDISTURBED SOIL

INSTALLATION TYPE	MATERIAL REQUIREMENTS FOR HAUNCH AND STRUCTURAL BEDDING
TYPE 1	AGGREGATE BASE COURSE (CLASS 5 OR CLASS 7)
TYPE 2	SELECTED MATERIALS (CLASS SM-1, SM-2, OR SM-4) OR TYPE 1 INSTALLATION MATERIAL*
TYPE 3**	AASHTO CLASSIFICATION A-1 THRU A-6 SOIL OR TYPE 1 OR 2 INSTALLATION MATERIAL

*SM-3 WILL NOT BE ALLOWED.

**MATERIALS SHALL NOT INCLUDE ORGANIC MATERIALS OR STONES LARGER THAN 3 INCHES.



EMBANKMENT AND TRENCH INSTALLATIONS

1. MATERIAL IN THE HAUNCH AND OUTER STRUCTURAL BEDDING SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OR CLASS OF MATERIAL USED.
2. FOR TRENCHES WITH WALLS OF NATURAL SOIL, THE DENSITY OF THE SOIL IN THE LOWER SIDE ZONE SHALL BE AS FIRM AS THE 95% DENSITY REQUIRED FOR THE HAUNCH. IF THE EXISTING SOIL DOES NOT MEET THIS CRITERIA, IT SHALL BE REMOVED AND RECOMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OF MATERIAL USED.
3. FOR EMBANKMENTS, THE MATERIAL IN THE LOWER SIDE ZONE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OR CLASS OF MATERIAL USED.

GENERAL NOTES

1. CONCRETE PIPE CULVERT CONSTRUCTION SHALL CONFORM TO ARKANSAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION), WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS. UNLESS OTHERWISE NOTED IN THE PLANS, SECTION AND SUBSECTION REFER TO THE STANDARD CONSTRUCTION SPECIFICATIONS.
2. CONCRETE PIPE CULVERT DESIGN SHALL CONFORM TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, FIFTH EDITION (2010) WITH 2010 INTERIMS.
3. ALL PIPE SHALL CONFORM TO SECTION 606. CIRCULAR R.C. PIPE CULVERTS SHALL CONFORM TO AASHTO M170. R.C. ARCH PIPE CULVERTS SHALL CONFORM TO AASHTO M206 AND HORIZONTAL ELLIPTICAL PIPE CULVERTS SHALL CONFORM TO AASHTO M207.
4. ALL PIPE SHALL BE PROTECTED DURING CONSTRUCTION BY A COVER SUFFICIENT TO PREVENT DAMAGE FROM PASSAGE OF EQUIPMENT.
5. THE MINIMUM TRENCH WIDTH SHALL BE THE OUTSIDE DIAMETER OF THE PIPE PLUS 24 INCHES. THE MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE THE MINIMUM WIDTH PRACTICABLE FOR WORKING CONDITIONS.
6. MULTIPLE PIPE CULVERTS SHALL BE INSTALLED WITH A MINIMUM CLEARANCE OF 24 INCHES BETWEEN STRINGS OF PIPE. REFER TO STD. DWG. FES-2 FOR MINIMUM CLEARANCE WHERE FLARED END SECTIONS ARE USED.
7. IMPERVIOUS MATERIAL SHOULD BE PLACED AS DIRECTED BY THE ENGINEER AT THE ENDS OF THE CULVERT TO PREVENT LOSS OF STRUCTURAL BEDDING WHEN PERVIOUS MATERIAL IS USED FOR STRUCTURAL BEDDING AND/OR BACKFILL.
8. NOT MORE THAN ONE LIFTING HOLE MAY BE PROVIDED IN CONCRETE PIPE TO FACILITATE HANDLING. HOLE MAY BE CAST IN PLACE, CUT INTO THE FRESH CONCRETE AFTER FORMS ARE REMOVED, OR DRILLED. THE HOLE SHALL NOT BE MORE THAN TWO INCHES IN DIAMETER OR TWO INCHES SQUARE. CUTTING OR DISPLACEMENT OF REINFORCEMENT WILL NOT BE PERMITTED. SPALLED AREAS AROUND THE HOLE SHALL BE REPAIRED IN A WORKMANLIKE MANNER. LIFTING HOLE SHALL BE FILLED WITH MORTAR, CONCRETE, OR OTHER METHOD AS APPROVED BY THE ENGINEER.
9. WHEN DIRECTED BY THE ENGINEER, UNSUITABLE MATERIAL THAT IS ENCOUNTERED AT THE BOTTOM OF THE EXCAVATED TRENCH (BELOW THE AREA IDENTIFIED AS "STRUCTURAL BEDDING" ABOVE) WILL BE EXCAVATED AND REPLACED WITH SELECTED PIPE BEDDING. THE QUANTITY OF MATERIAL REQUIRED TO BACKFILL THE UNDERCUT AREA UP TO THE SELECTED PIPE BEDDING PAY LIMIT DESIGNATED ABOVE WILL BE MEASURED AND PAID FOR AS "SELECTED PIPE BEDDING."
10. WHEN THE EXISTING MATERIAL EXCAVATED FOR THE PIPE TRENCH IS DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING THE PIPE (ABOVE THE AREA IDENTIFIED ABOVE AS THE HAUNCH), BORROW MATERIAL OR MATERIAL FROM THE ROADWAY EXCAVATION WILL BE USED TO BACKFILL THE PIPE. IF SUITABLE MATERIAL IS NOT AVAILABLE, THE ENGINEER MAY AUTHORIZE THE USE OF "SELECTED PIPE BACKFILL."

MINIMUM HEIGHT OF FILL "H" OVER CIRCULAR R.C. PIPE CULVERTS

	CLASS OF PIPE			
	CLASS III		CLASS IV	CLASS V
INSTALLATION TYPE	TYPE 1 OR 2	TYPE 3	ALL	ALL
PIPE ID (IN.)	FEET			
12-15	2	2.5	2	1
18-24	2.5	3	2	1
27-33	3	4	2	1
36-42	3.5	5	2	1
48	4.5	5.5	2	1
54-60	5	7	2	1
66-78	6	8	2	1
84-108	7.5	8	2	1

NOTE: FOR MINIMUM COVER VALUES, "H" SHALL INCLUDE A MINIMUM OF 12" OF PAVEMENT AND/OR BASE.

MAXIMUM HEIGHT OF FILL "H" OVER CIRCULAR R.C. PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE		
	CLASS III	CLASS IV	CLASS V
	FEET		
TYPE 1	21	32	50
TYPE 2	16	25	39
TYPE 3	12	20	30

NOTE: IF FILL HEIGHT EXCEEDS 50 FEET, A SPECIAL DESIGN CONCRETE PIPE WILL BE REQUIRED USING TYPE 1 INSTALLATION.

MINIMUM HEIGHT OF FILL "H" OVER R.C. ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE	
	CLASS III	CLASS IV
	FEET	
TYPE 2 OR TYPE 3	2.5	1.5

NOTE: TYPE 1 INSTALLATION WILL NOT BE ALLOWED FOR ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS.

NOTE: FOR MINIMUM COVER VALUES, "H" SHALL INCLUDE A MINIMUM OF 12" OF PAVEMENT AND/OR BASE.

MAXIMUM HEIGHT OF FILL "H" OVER R.C. ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE	
	CLASS III	CLASS IV
	FEET	
TYPE 2	13	21
TYPE 3	10	16

NOTE: TYPE 1 INSTALLATION WILL NOT BE ALLOWED FOR ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS.

DATE	REVISION	DATE FILMED
2-27-14	REVISED GENERAL NOTE 1.	
12-15-11	REVISED FOR LRFD DESIGN SPECIFICATIONS	
5-18-00	REVISED TYPE 3 BEDDING & ADDED NOTE	
3-30-00	REVISED INSTALLATIONS	
11-06-97	ISSUED	

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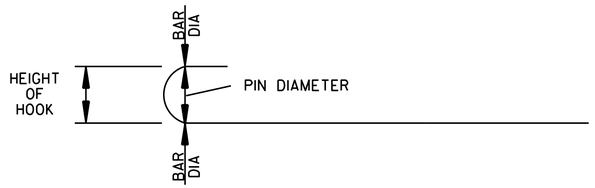
CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING

STANDARD DRAWING PCC-1

STEEL FABRICATION: REINFORCING STEEL FABRICATION SHALL CONFORM TO THE DIMENSIONS LISTED IN THE TABLE BELOW:

BAR SIZE	PIN DIAMETER	HOOK EXTENSION "K"
3	2 1/4"	4"
4	3 "	4 1/2"
5	3 3/4"	5"
6	4 1/2"	6"
7	5 1/4"	7"
8	6"	8"

IF THE OVERALL HEIGHT OF THE HOOK (SEE DIAGRAM BELOW) FOR A "b", "b1", "b2" or "b3" BENT BAR IS GREATER THAN THE CORRESPONDING TOP OR BOTTOM SLAB THICKNESS, LESS 2 3/4 INCHES, EACH BENT BAR SHALL BE REPLACED WITH ONE HOOKED BAR AND ONE STRAIGHT BAR, USING LENGTHS AS SHOWN IN THE TABLE BELOW. THE TWO BARS SHALL BE THE SAME DIAMETER AS, AND PLACED AT THE SAME SPACING AS, THE "b", "b1", "b2" OR "b3" BENT BARS THEY REPLACE.



NOTE: DIMENSIONS OF BARS ARE MEASURED OUT TO OUT OF BARS.

OVERALL HEIGHT OF HOOKED BAR DIAGRAM

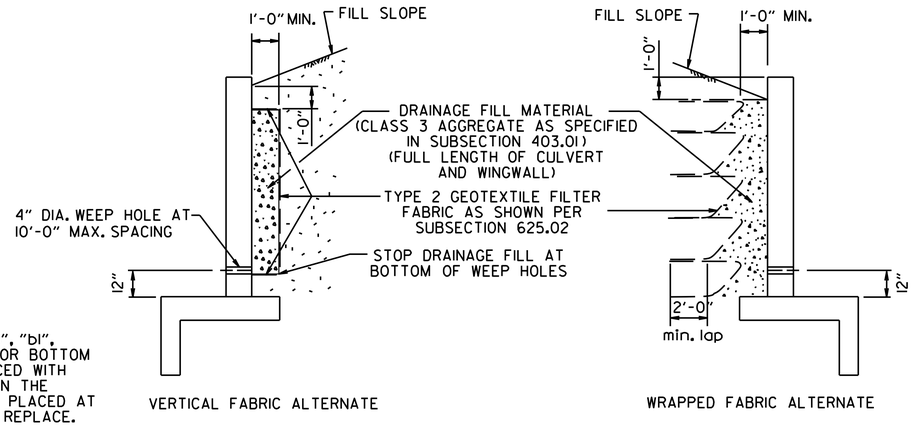
THE HOOKED BARS SHALL BE PLACED IN THE BOTTOM OF THE TOP SLAB AND THE TOP OF THE BOTTOM SLAB. THE STRAIGHT BARS SHALL BE PLACED IN THE TOP OF THE TOP SLAB AND THE BOTTOM OF THE BOTTOM SLAB. SEE TABLE BELOW FOR LENGTHS OF REPLACEMENT HOOKED AND STRAIGHT BARS.

FOR SKEWED CULVERTS, THE REPLACEMENT STRAIGHT BAR MAY HAVE TO BE CUT IN FIELD TO FIT.

REPLACEMENT BAR LENGTHS TABLE

BAR SIZE: "b", "b1", "b2" OR "b3"	LENGTH OF HOOKED BAR	LENGTH OF STRAIGHT BAR
#4	L + 1' - 0"	SEE "c" BAR LENGTH
#5	L + 1' - 2"	SEE "c" BAR LENGTH
#6	L + 1' - 4"	SEE "c" BAR LENGTH
#7	L + 1' - 8"	SEE "c" BAR LENGTH
#8	L + 1' - 10"	SEE "c" BAR LENGTH
#9	L + 2' - 6"	SEE "c" BAR LENGTH

L = "OW" - 3 INCHES



WINGWALL & CULVERT DRAINAGE DETAIL

REINFORCED CONCRETE BOX CULVERT GENERAL NOTES

CONCRETE SHALL BE CLASS S WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3500 PSI.

REINFORCING STEEL SHALL BE AASHTO M 31 OR M 53, GRADE 60.

CONSTRUCTION AND MATERIALS FOR WINGWALL & CULVERT DRAINAGE, INCLUDING WEEP HOLES AND GRANULAR MATERIAL, SHALL BE SUBSIDIARY TO THE BID ITEM, "CLASS S CONCRETE".

MEMBRANE WATERPROOFING SHALL CONFORM TO THE REQUIREMENTS OF SECTION 815 OF THE STANDARD SPECIFICATIONS.

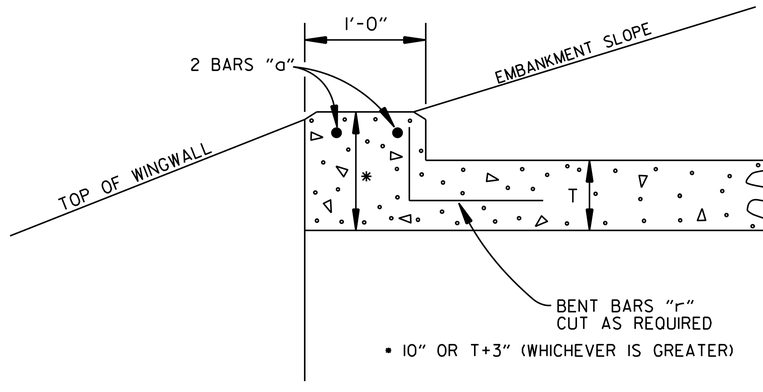
MEMBRANE WATERPROOFING SHALL BE APPLIED TO ALL CONSTRUCTION JOINTS IN THE TOP SLAB AND THE SIDEWALLS OF R.C. BOX CULVERTS AS DIRECTED BY THE ENGINEER. NO PAYMENT SHALL BE MADE FOR THIS ITEM, BUT PAYMENT WILL BE CONSIDERED TO BE INCLUDED IN THE VARIOUS ITEMS BID FOR THE R.C. BOX CULVERT.

REINFORCING STEEL TOLERANCES: THE TOLERANCES FOR REINFORCING STEEL SHALL MEET THOSE LISTED IN "MANUAL OF STANDARD PRACTICE" PUBLISHED BY CONCRETE REINFORCING STEEL INSTITUTE (CRSI) EXCEPT THAT THE TOLERANCE FOR TRUSS BARS SUCH AS FIGURE 3 ON PAGE 7-4 OF THE CRSI MANUAL SHALL BE MINUS ZERO TO PLUS 1/2 INCH.

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.

WEEP HOLES IN WINGWALLS SHALL HAVE A MAXIMUM HORIZONTAL SPACING OF 10'-0" AND SHALL BE SPACED TO CLEAR ALL REINFORCING STEEL. THERE SHALL BE A MINIMUM OF TWO (2) WEEP HOLES IN EACH WINGWALL. THE DRAIN OPENING SHALL BE 4" DIAMETER AND SHALL BE PLACED 12" ABOVE THE TOP OF THE WINGWALL FOOTING.

THE REQUIREMENTS SHOWN ON THIS DRAWING SHALL SUPERCEDE THE CORRESPONDING REQUIREMENTS ON ALL REINFORCED CONCRETE BOX CULVERT STANDARD DRAWINGS.



NOTE: FOR ALL SKEWED R.C. BOX CULVERTS THE LENGTH "K" OF THE MODIFIED HEADWALL SHALL BE EQUAL TO THE ROADWAY LENGTH "RL". THE ENDS OF THE HEADWALL SHALL BE CONSTRUCTED PARALLEL TO THE SKEW ANGLE OF THE BOX CULVERT.

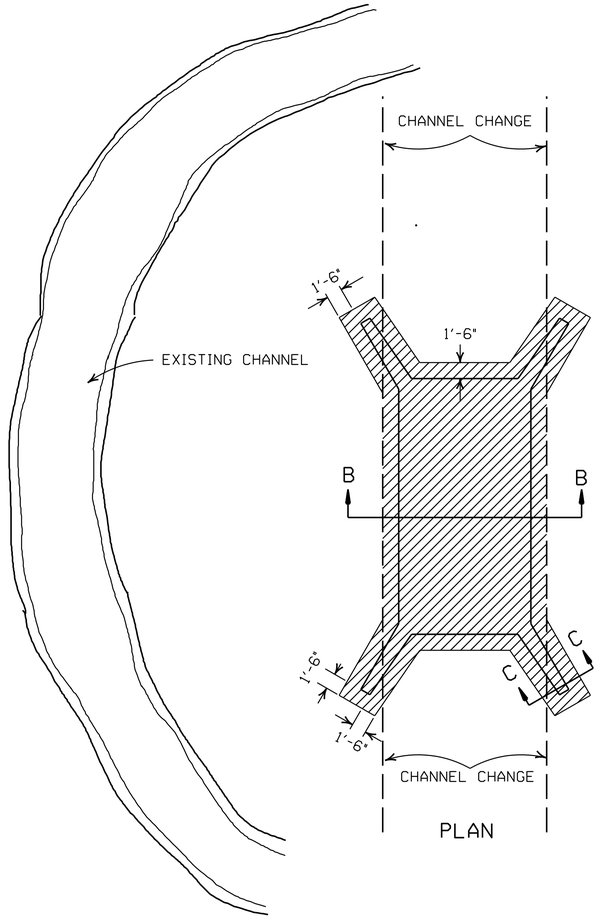
R.C. BOX CULVERT HEADWALL MODIFICATIONS

DATE	REVISION	DATE FILMED
7/26/12	REV. DRAINAGE FILL MATERIAL & DETAIL	
12/15/11	REQUIRE WEEP HOLES IN BOX CULVERT WALLS	
5-25-06	REV. GEN. NOTES AND DETAILS FOR WEEP HOLES; BAR DIAGRAM	
11-16-01	ADDED WINGWALL DRAINAGE DETAIL/EDITED GEN. NOTES	
10-18-96	REV. ASTM REF. TO AASHTO & ADDED BAR DIAGRAM	
10-12-95	MOVED SOLID SODDING DETAIL TO RCB-2	
6-2-94	ADDED SOLID SODDING PLAN DETAIL	
8-5-93	REVISED PIN DIAMETER TO SPECS.	
8-15-91	DRAWN AND ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

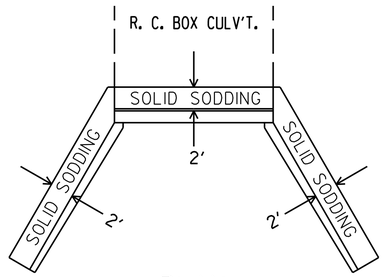
REINFORCED CONCRETE BOX CULVERT DETAILS

STANDARD DRAWING RCB-1



PLAN

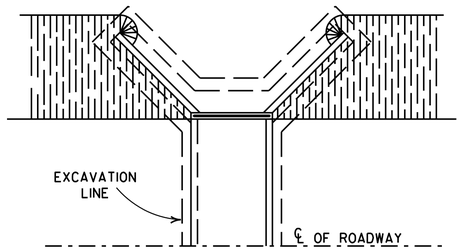
SOLID SODDING



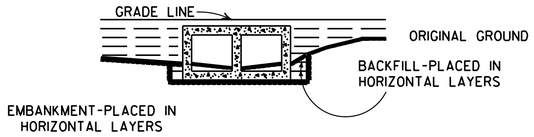
PLAN

PARTIAL SECTION SHOWING SOLID SODDING AT HEADWALLS AND WING WALLS

NOTE: LENGTH MEASURED ALONG THE CENTER OF 2' STRIP OF SOLID SODDING.

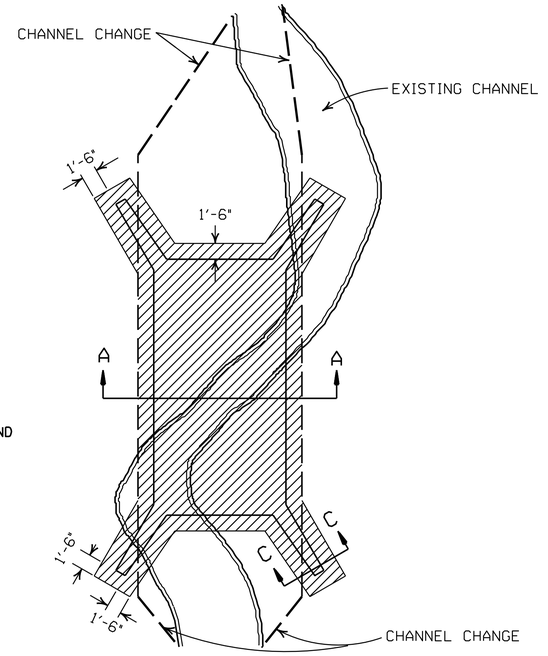


PLAN

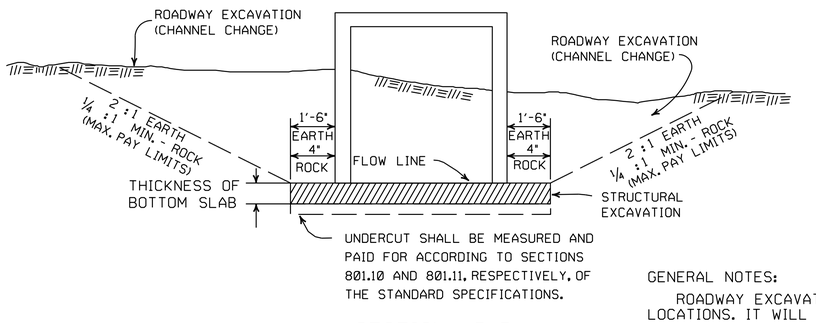


LONGITUDINAL SECTION

BACKFILL DETAILS FOR BOX CULVERT

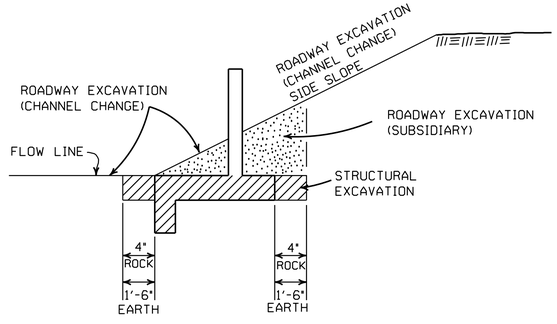


PLAN

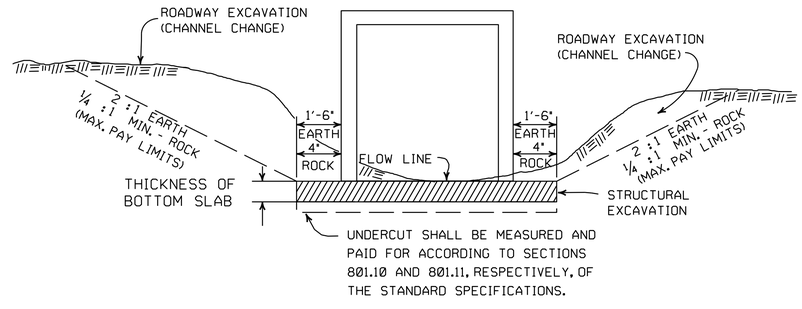


SECTION B-B

DETAILS FOR NEW CHANNELS



SECTION C-C



SECTION A-A

DETAILS THROUGH EXISTING CHANNELS

GENERAL NOTES:

ROADWAY EXCAVATION (CHANNEL CHANGE) WILL BE PAID FOR AT R.C. BOX CULVERT LOCATIONS. IT WILL BE PAID TO THE LIMITS ACTUALLY CUT AND WILL BE CONFINED TO THAT PORTION OF THE INDICATED AREA THAT IS ABOVE THE FLOW LINE. ROADWAY EXCAVATION (CHANNEL CHANGE) SHALL BE MEASURED BY CROSS SECTIONS AND VOLUMES COMPUTED BY AVERAGE END AREA METHOD. ALL CHANNEL CHANGES SHALL BE BROUGHT TO GRADE PRIOR TO MAKING ANY EXCAVATION FOR STRUCTURES.

EXCAVATION FOR STRUCTURES WILL BE PAID FOR AT ALL R.C. BOX CULVERT LOCATIONS. IT WILL BE PAID TO THE LIMITS SHOWN AND SHALL BE CONFINED TO THAT PORTION OF THE INDICATED AREA THAT IS BELOW THE CHANNEL FLOW LINE.

ROADWAY EXCAVATION SHOWN IN SECTION C-C ABOVE AS SUBSIDIARY WILL NOT BE MEASURED OR PAID FOR DIRECTLY, BUT PAYMENT WILL BE CONSIDERED TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION.

DATE	REVISION	FILMED
11-20-03	REVISED SECTION A-A NOTE	
8-22-02	REVISED SECTION B-B NOTE	
10-12-95	COMBINED 1891B AND 1888A	
1-4-83	REVISED GENERAL NOTES	674-1-4-83
	AND ADDED MAXIMUM PAY	
	LIMIT NOTES.	
2-2-76	EXCAV. PAY LIMITS	917-2-2-76
10-2-72	REVISED AND REDRAWN	564-10-16-72

ARKANSAS STATE HIGHWAY COMMISSION

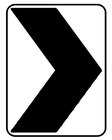
EXCAVATION PAY LIMITS, BACKFILL, & SOLID SODDING FOR BOX CULVERTS

STANDARD DRAWING RCB-2

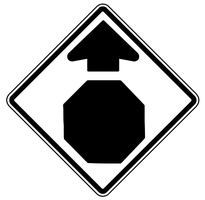


R1-1
30"X30"



















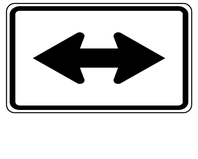






County
Route Marker
MI-6
24"X24"

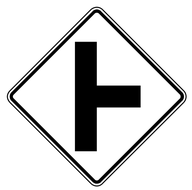
NOTE: REFLECTORIZED YELLOW LEGEND (COUNTY NAME, ROUTE LETTER & NUMBER) & BORDER ON A BLUE BACKGROUND.





R2-1
24"X30"

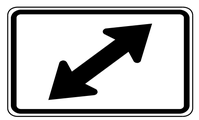




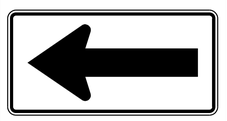


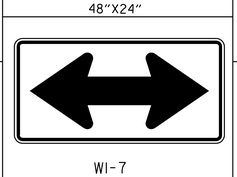


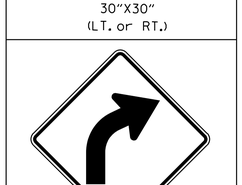




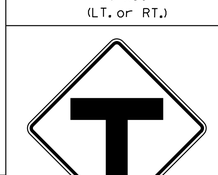




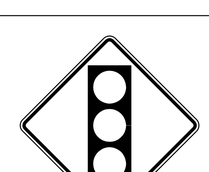


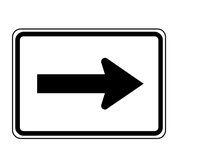




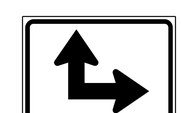




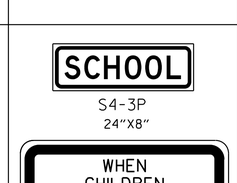


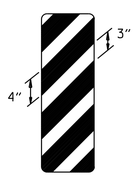


NOTE: ALL M6 SIGNS TO BE MADE WITH REFLECTORIZED YELLOW ARROW & BORDER WITH BLUE BACKGROUND.



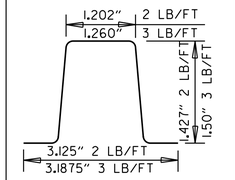




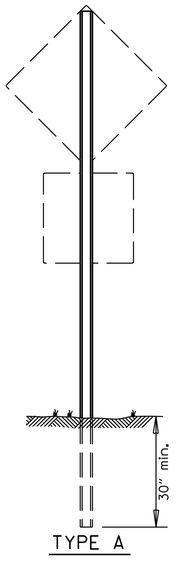


MINIMUM DIMENSIONS SHOWN

SUPPORT SECTION

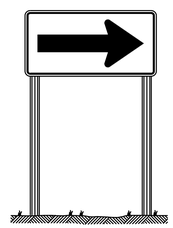


(U-CHANNEL)
STANDARD SUPPORT
ASSEMBLIES

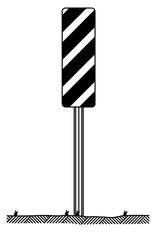


TYPE A

NOTE: LENGTH OF SIGN POSTS SHALL BE DETERMINED SO AS TO PROVIDE FOR MINIMUM VERTICAL CLEARANCES AS CALLED FOR IN THE SPECIFICATIONS PLUS A MINIMUM VERTICAL PENETRATION OF 30" IN THE SOIL.



TYPE B



TYPE C

MINIMUM WEIGHT

TYPE A & B = 3 LBS./FT.
TYPE C = 2 LBS./FT.

STANDARD HIGHWAY SIGNS

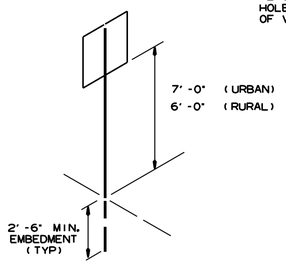
DATE	REVISION	DATE FILMED
9-12-13	DELETED JOB NO. BLOCK; REVISED RI-3 TO RI-3P	
4-17-08	REVISED SIGN DESIGNATION - W3-1& W3-2	
4-10-03	REVISED W5-2, W8-3, OM-3; ADDED WI-8	
1-5-81	REDRAWN	960-1-15-81
9-15-78	ADDED W14-3	877-9-15-78
9-2-76	POST WT.	623-9-3-76
5-3-76	STEEL POST WT. FROM 2#-3#; ADDED S4-2 & S4-3	504-5-3-76
8-12-74	REV. HT. TYPE "C" ASSEMBLY	500-8-21-74
12-21-72	ADDED M6-2,3,4,5,6	500-12-21-72
12-1-72	ISSUED	562-12-1-72

SUPPORT ASSEMBLIES

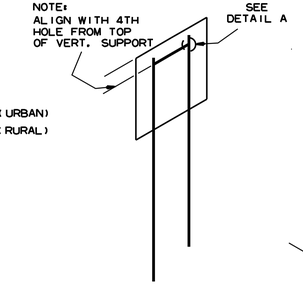
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD HIGHWAY SIGNS AND SUPPORT ASSEMBLIES

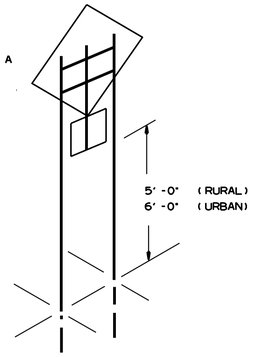
STANDARD DRAWING SHS-1



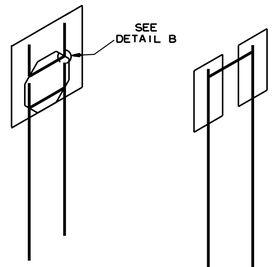
U-1



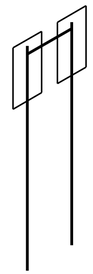
U-2



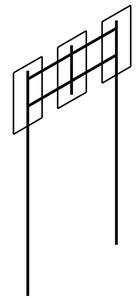
U-2 (A)



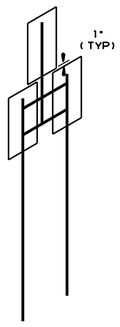
U-2 (B)



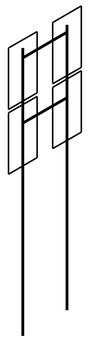
U-2 (1)



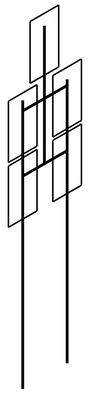
U-2 (2)



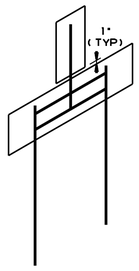
U-2 (3)



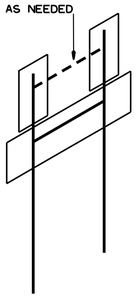
U-2 (4)



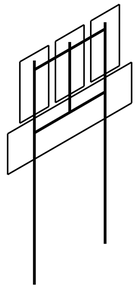
U-2 (5)



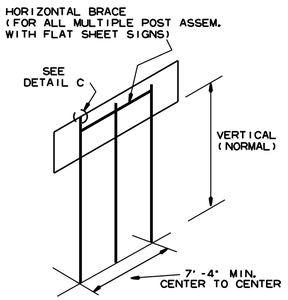
U-2 (6)



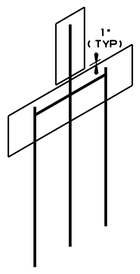
U-2 (7)



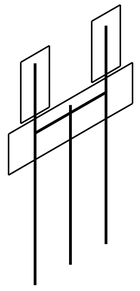
U-2 (8)



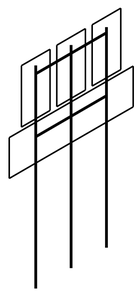
U-3



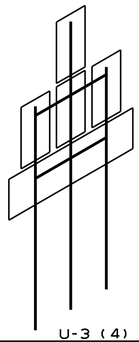
U-3 (1)



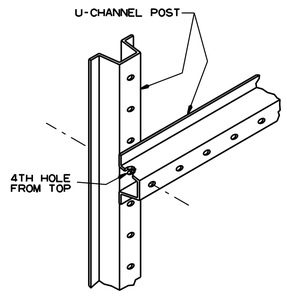
U-3 (2)



U-3 (3)

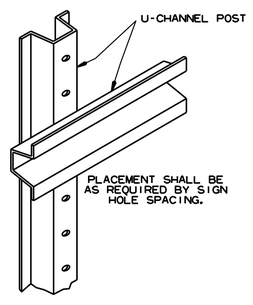


U-3 (4)



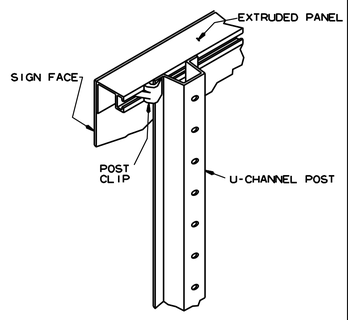
DETAIL A

SHOWING HORIZONTAL BRACE



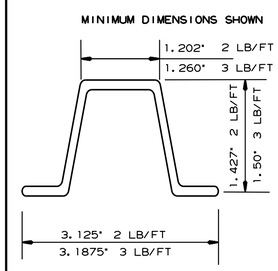
DETAIL B

SHOWING BACK-TO-BACK INSTALLATION



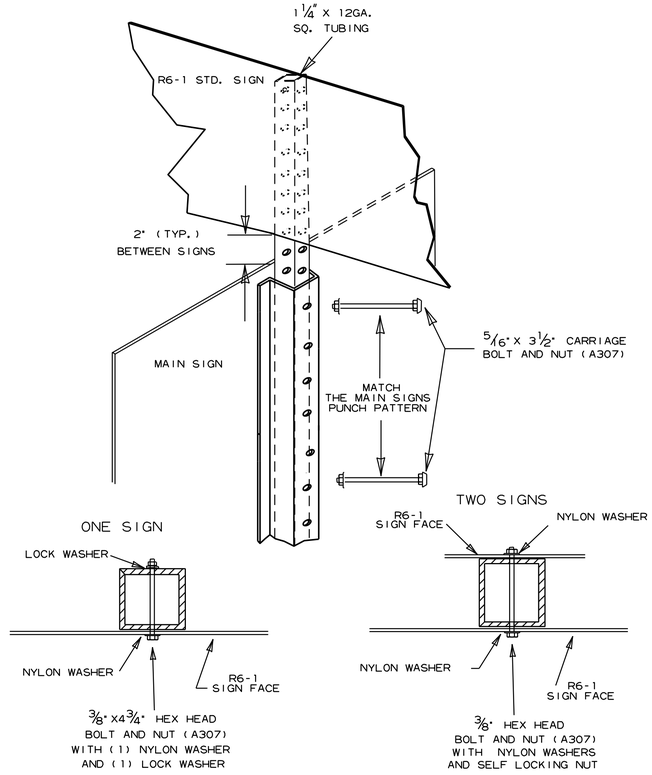
DETAIL C

SHOWING GUIDE SIGN MOUNTING WITH EXTRUDED PANELS



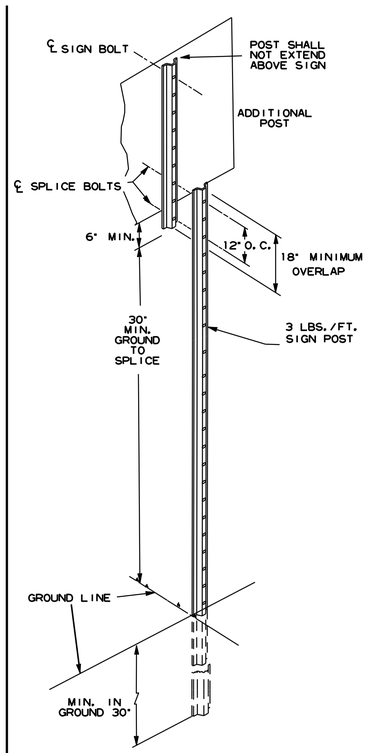
DETAIL C

U-CHANNEL POST



DETAIL E

R6-1 EXTENSION FOR U-CHANNEL POST



DETAIL F

DETAIL OF SPLICES

NOTES:

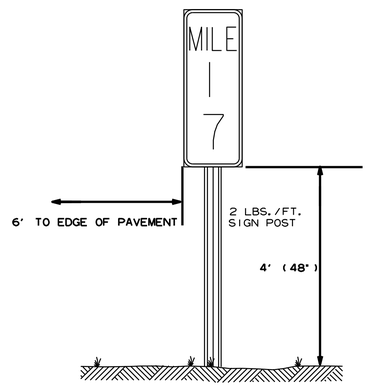
SIGNS AT LEAST 8' IN LENGTH MAY BE INSTALLED ON THREE 3 LB. POST. IN NO CASE SHALL THERE BE MORE THAN TWO 3 LB. POSTS WITHIN A 7' PATH.

SPLICES NECESSARY TO ATTAIN PROPER MOUNTING HEIGHT SHALL BE AS SHOWN IN DETAIL (F).

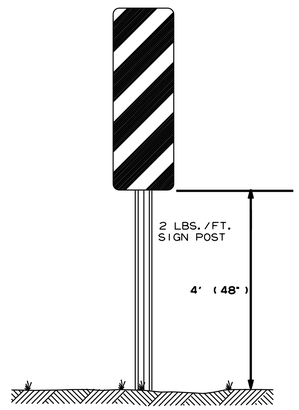
NORMAL INSTALLATIONS WILL REQUIRE 5/16" DIA. CARRIAGE BOLTS TO MOUNT SIGNS TO POST AND TO ASSEMBLE THE VARIOUS POST SUPPORTS.

ALL SIGN POSTS SHALL BE PLUMB.

THE POST FOR "TYPE U" SUPPORTS SHALL BE HOT DIP GALVANIZED.



TYPICAL MILE MARKER INSTALLATION



TYPICAL OM-3 INSTALLATION AT EDGE OF OBSTRUCTION

DATE	REVISION	FILMED
7-25-19	REVISED CARRIAGE BOLT WITH MATERIAL REQUIREMENT	
2-27-14	REVISED NOTES.	
9-12-13	REVISED U-2(3), U-2(6), U-3(1), DETAIL D; ADDED DETAILS E & F; ADDED TYPICAL MARKERS	
10-9-03	REMOVED ROUND POST & REVISED SPACING	
10-12-95	MOVED UPPER SPLICE	
6-8-95	REVISED SPLICE DETAIL	6-8-95
2-2-95	REDRAWN	2-2-95

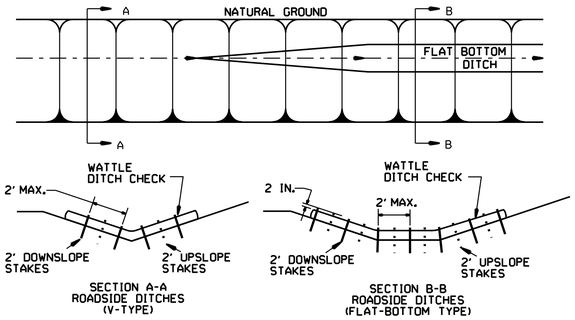
ARKANSAS STATE HIGHWAY COMMISSION

U-CHANNEL POST ASSEMBLIES

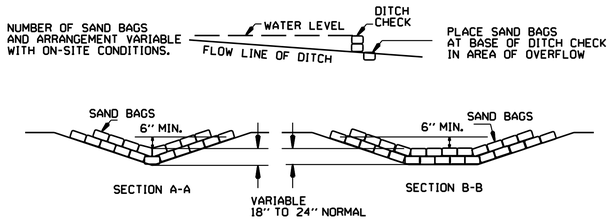
STANDARD DRAWING SHS-2

GENERAL NOTES

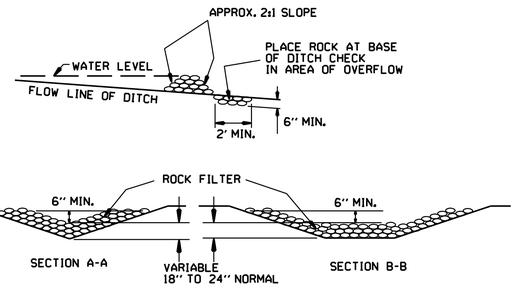
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.



WATTLE DITCH CHECK (E-1)



SAND BAG DITCH CHECK (E-5)

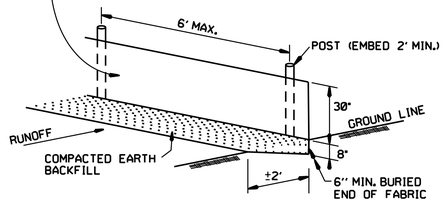


ROCK DITCH CHECK (E-6)

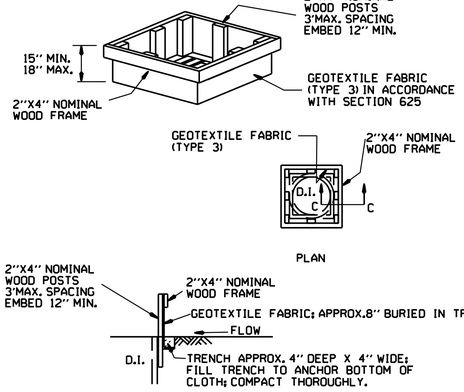
GENERAL NOTES

GEOTEXTILE FABRIC (TYPE 4) IN ACCORDANCE WITH SECTION 625

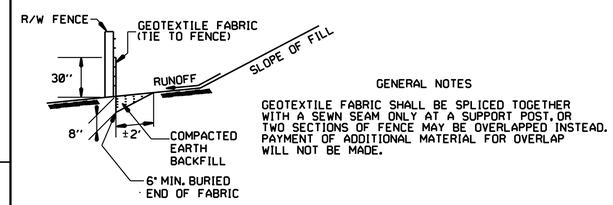
GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.



SILT FENCE (E-11)

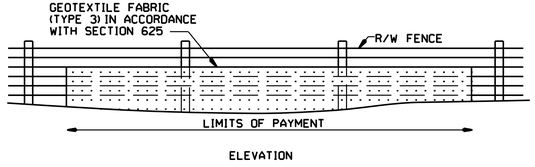


DROP INLET SILT FENCE (E-7)



GENERAL NOTES

GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST, OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.



ELEVATION

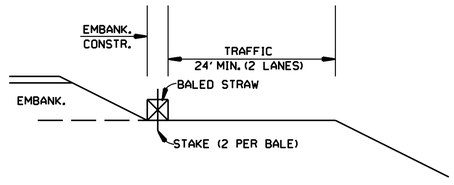
SILT FENCE ON R/W FENCE (E-4)

GENERAL NOTES

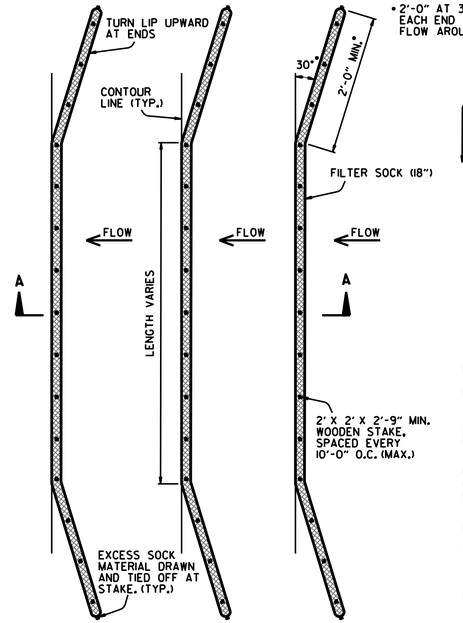
1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.

2. NO GAPS SHALL BE LEFT BETWEEN BALES.

3. BALED STRAW FILTER BARRIERS COMPLETED AND ACCEPTED WILL BE MEASURED BY THE BALE IN PLACE AS AUTHORIZED BY THE ENGINEER AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER BALE FOR BALED STRAW DITCH CHECKS.

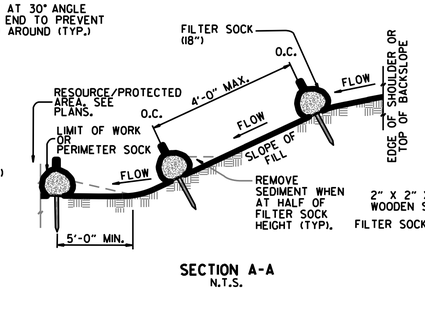


BALED STRAW FILTER BARRIER (E-2)

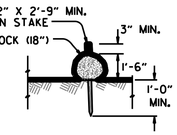


PLAN VIEW
N.T.S.

* 2'-0" AT 30° ANGLE EACH END TO PREVENT FLOW AROUND (TYP.)



SECTION A-A
N.T.S.



STAKING DETAIL
N.T.S.

NOTES:

1. FILTER SOCKS CAN BE PLACED AT THE TOP, ON THE FACE, AND AT THE TOE OF SLOPES AS SEDIMENT-TRAPPING DEVICES FOR SHEET FLOW RUNOFF.

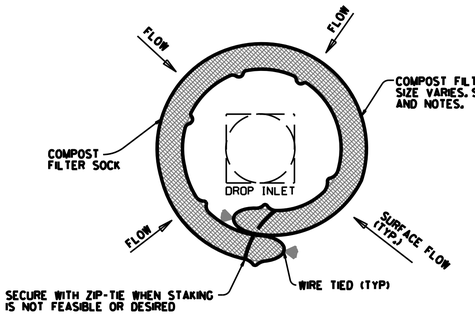
2. FILTER SOCKS ARE TYPICALLY SUPPLIED AND INSTALLED WITH 18 INCH DIAMETERS. DIAMETER TOLERANCE IS 2 INCHES, AS FILTER SOCKS TEND TO FLATTEN OUT WHEN PLACED.

3. STEEL POSTS MAY BE USED AND SHALL BE ROLLED FROM HIGH CARBON STEEL AND HAVE A MINIMUM OF 1.25 LB./FT. POSTS SHALL BE HOT-DIPPED GALVANIZED OR PAINTED WITH HIGH-GRADE WEATHER RESISTANT BROWN OR BLACK STEEL PAINT. STEEL POSTS SHALL BE EQUIPPED WITH ANCHOR PLATE HAVING A MINIMUM AREA OF 14 SQUARE INCHES. POSTS SHALL BE STUDDED, EMBOSSED, OR PUNCHED. POSTS AND ANCHOR PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A702. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR STEEL POSTS, BUT PRICE WILL BE CONSIDERED SUBIDIARY TO "FILTER SOCK (18")."

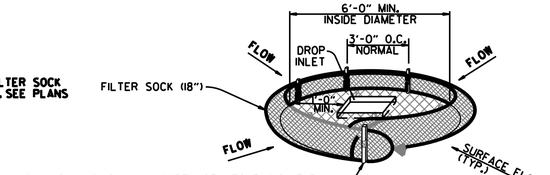
4. FILTER SOCKS MAY BE UP TO 250 FEET LONG. WHEN USED ON LONG SLOPES, FILTER SOCKS MAY BE JOINTED OR STAGGERED AS SHOWN IN DETAILS.

5. INSPECT FILTER SOCKS AFTER EACH RUNOFF EVENT. REMOVE AND REPLACE IF SIGNS OF UNDERCUTTING OR DOWNSTREAM RILLS ARE OBSERVED.

FILTER SOCK ALONG SLOPE (E-3)



DROP INLET PLAN VIEW
N.T.S.



DROP INLET PERSPECTIVE VIEW
N.T.S.

NOTES:

1. OVERLAP ENDS OF SOCK (1' MIN. 3' MAX.).

2. USE 18" DIA. SOCK IN NON-TRAFFIC AREAS OR AREAS WHERE SAFETY IS NOT A CONCERN.

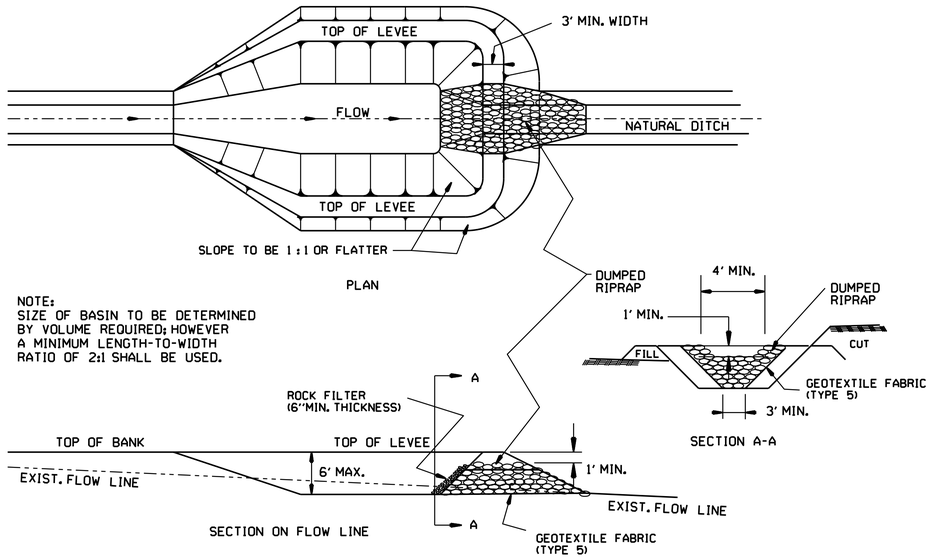
COMPOST FILTER SOCK DROP INLET PROTECTION (E-13)

DATE	REVISION	FILMED
11-16-17	ADDED FILTER SOCK E-3 AND E-13	
12-15-11	DELETED BALED STRAW DITCH CHECK & ADDED WATTLE DITCH CHECK	
11-18-98	ADDED NOTES	
07-02-98	ADDED BALED STRAW FILTER BARRIER (E-2)	
07-20-95	REVISED SILT FENCE E-4 AND E-11	7-20-95
07-15-94	REV. E-4 & E-11 MIN. 13" BURIED END OF FABRIC	
06-02-94	REVISED E-1,4,7 & 11; DELETED E-2 & 3	6-2-94
04-01-93	REDRAWN	
10-01-92	REDRAWN	
08-02-76	ISSUED R.D.M.	298-7-28-76

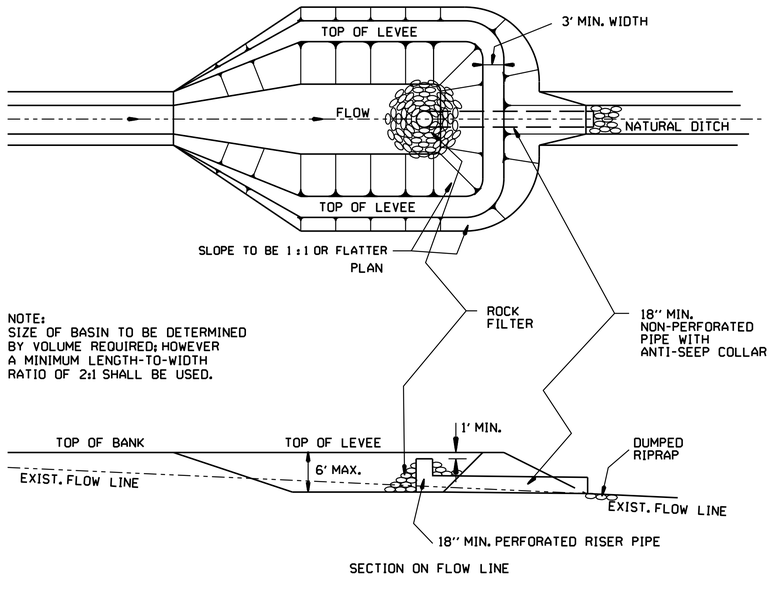
ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

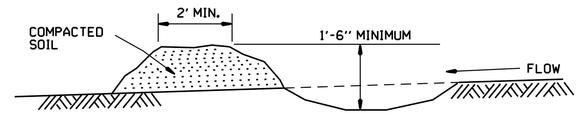
STANDARD DRAWING TEC-1



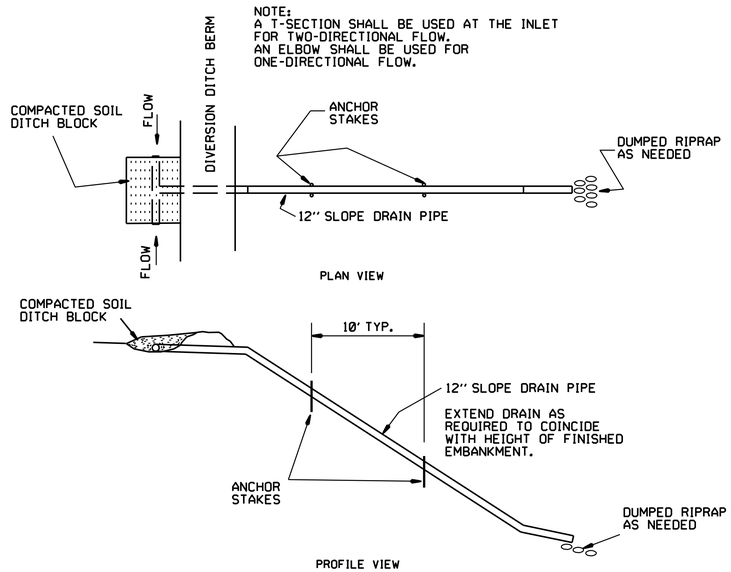
SEDIMENT BASIN WITH RIPRAP OUTLET (E-9)



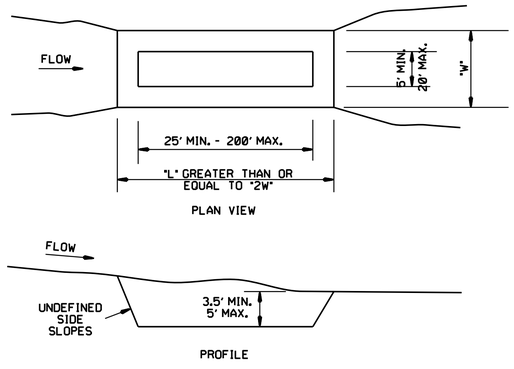
SEDIMENT BASIN WITH PIPE OUTLET (E-10)



DIVERSION DITCH (E-8)



SLOPE DRAIN (E-12)



SEDIMENT BASIN (E-14)

DATE	REVISION	FILMED
6-2-94	Revised E-8 & E-12; Added E-14 & Deleted E-13	
4-1-93	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

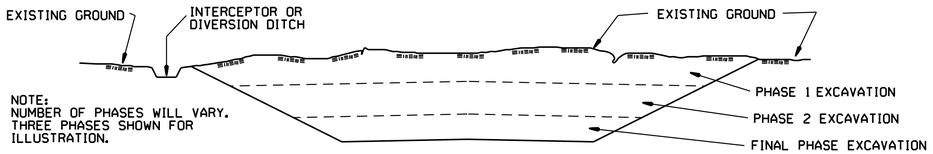
STANDARD DRAWING TEC-2

CLEARING AND GRUBBING

CONSTRUCTION SEQUENCE

1. PLACE PERIMETER CONTROLS (I.E. SILT FENCES , DIVERSION DITCHES, SEDIMENT BASINS, ETC.)
2. PERFORM CLEARING AND GRUBBING OPERATION.

EXCAVATION



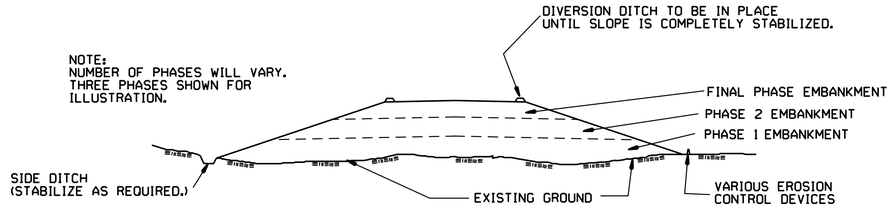
GENERAL NOTE

ALL CUT SLOPES SHALL BE DRESSED, PREPARED, SEEDED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE EXCAVATED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

CONSTRUCTION SEQUENCE

1. EXCAVATE AND STABILIZE INTERCEPTOR AND/OR DIVERSION DITCHES.
2. PERFORM PHASE 1 EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING.
3. PERFORM PHASE 2 EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING.
4. PERFORM FINAL PHASE OF EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING. STABILIZE DITCHES. CONSTRUCT DITCH CHECKS, DIVERSION DITCHES, SEDIMENT BASINS, OR OTHER EROSION CONTROL DEVICES AS REQUIRED.

EMBANKMENT



GENERAL NOTE

ALL EMBANKMENT SLOPES SHALL BE DRESSED, PREPARED, SEEDED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE CONSTRUCTED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

CONSTRUCTION SEQUENCE

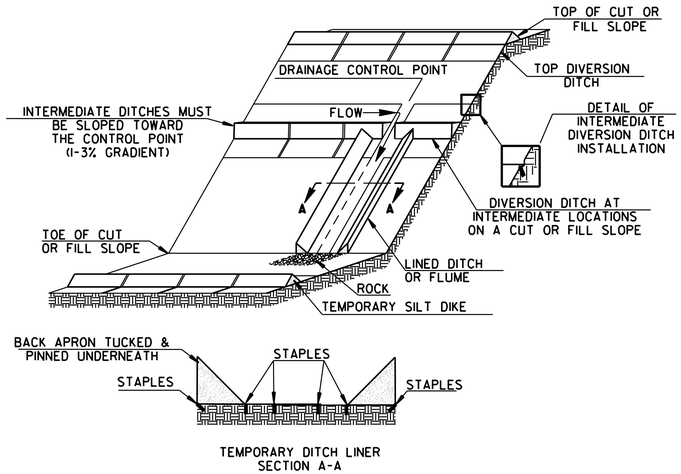
1. CONSTRUCT DIVERSION DITCHES, DITCH CHECKS, SEDIMENT BASINS, SILT FENCES, OR OTHER EROSION CONTROL DEVICES AS SPECIFIED.
2. PLACE PHASE 1 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 21 DAYS.
3. PLACE PHASE 2 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 21 DAYS.
4. PLACE FINAL PHASE OF EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PLACE DIVERSION DITCHES AND SLOPE DRAINS AND MAINTAIN UNTIL ENTIRE SLOPE IS STABILIZED.

DATE	REVISION	FILMED
11-03-94	CORRECTED SPELLING	
6-2-94	Drawn & Issued	6-2-94

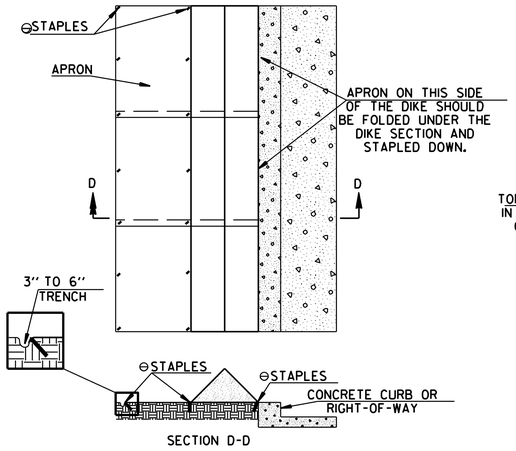
ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

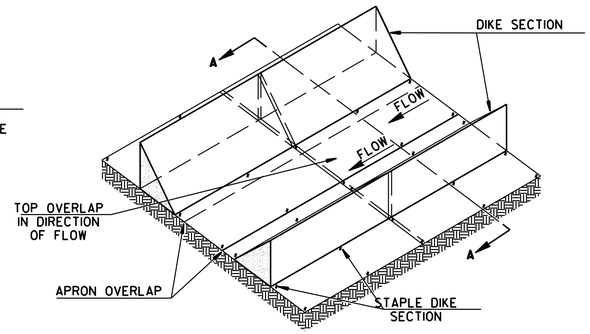
STANDARD DRAWING TEC-3



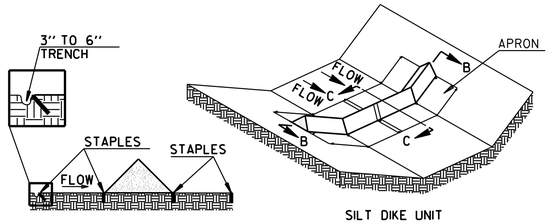
TRIANGULAR SILT DIKE INSTALLATION FOR DIVERSION DITCH AND/OR DITCH LINER

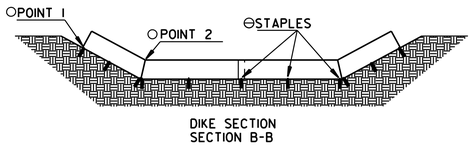


TRIANGULAR SILT DIKE INSTALLATION FOR CONTINUOUS BARRIER



TRIANGULAR SILT DIKE INSTALLATION FOR TEMPORARY DITCH LINER

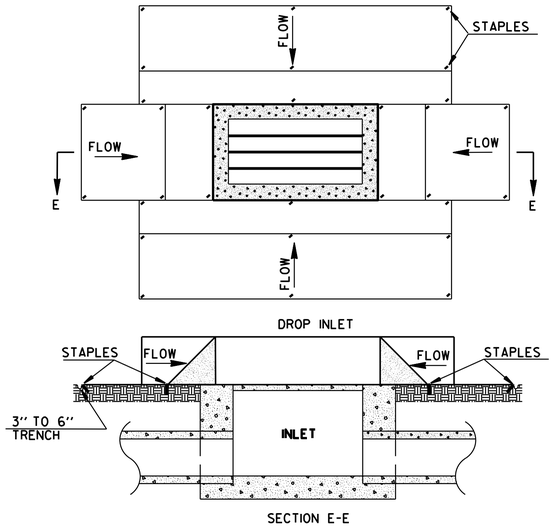




TRIANGULAR SILT DIKE INSTALLATION FOR ROADWAY DITCH OR DRAINAGE DITCH

○ POINT "1" MUST BE HIGHER THAN POINT "2" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.

⊖ STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND IN THE CENTER OF THE UNIT AS SHOWN ON THE DIAGRAM.



TRIANGULAR SILT DIKE INSTALLATION FOR DROP INLETS

GENERAL NOTES

1. THIS WORK SHALL CONSIST OF FURNISHING, INSTALLING, AND MAINTAINING THE TRIANGULAR SILT DIKE. THE DIKES SHALL BE USED AS A CONTINUOUS LINE BARRIER AT THE TOE OF SLOPE OR ACROSS THE ROADWAY DITCH TO CONTAIN SEDIMENT AND MINIMIZE EROSION, OR AS DIRECTED BY THE ENGINEER. THESE DIKES SHALL BE INSTALLED AND LOCATED AS SOON AS CONSTRUCTION WILL ALLOW OR AS DIRECTED BY THE ENGINEER.

2. TRIANGULAR SILT DIKE SHALL BE TRIANGULAR SHAPED HAVING A HEIGHT OF AT LEAST 8" TO 10" IN THE CENTER WITH EQUAL SIDES AND A 16" TO 20" BASE. THE TRIANGULAR SHAPED INNER MATERIAL SHALL BE URETHANE FOAM. THE OUTER COVER SHALL BE A WOVEN GEOTEXTILE FABRIC PLACED AROUND THE INNER MATERIAL & ALLOWED TO EXTEND BEYOND BOTH SIDES OF THE TRIANGLE 24" TO 36". THIS FABRIC SHOULD BE MILDEW RESISTANT, ROT-PROOF AND RESISTANT TO HEAT AND ULTRAVIOLET RADIATION MEETING REQUIREMENTS FOR SEDIMENT CONTROL IN AASHTO M288. THE DIKES SHALL BE ATTACHED TO THE GROUND WITH WIRE STAPLES. THE STAPLES SHALL BE NO. 11 GAUGE WIRE AND BE AT LEAST 6" TO 8" LONG. STAPLES SHALL BE PLACED AS SHOWN ON THESE DETAILS.

   THE CONTRACTOR SHALL INSPECT ALL DIKES AFTER EACH RAINFALL EVENT OF AT LEAST 0.5" OR GREATER. ANY DEFICIENCIES OR DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR. ACCUMULATED SILT OR DEBRIS SHALL BE REMOVED AND RELOCATED AS DIRECTED BY THE ENGINEER. IF THE DIKES ARE DAMAGED OR INADVERTENTLY MOVED DURING THE SILT REMOVAL PROCESS, THE CONTRACTOR SHALL IMMEDIATELY REPLACE AFTER DAMAGE OCCURS.

3. ACCEPTED TRIANGULAR SILT DIKE, MEASURED AS PROVIDED ABOVE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID FOR TRIANGULAR SILT DIKE. PRICE BID WILL INCLUDE THE COST OF FURNISHING THE DIKES, INSTALLING, MAINTAINING AND REMOVAL WHEN DIRECTED BY THE ENGINEER.

SYMBOLOGY
SYMBOL TO BE USED TO DENOTE DEVICE ON PLANS

NOTE: SILT DIKE SHOULD ONLY BE USED FOR DROP INLETS IN SUMP LOCATIONS.

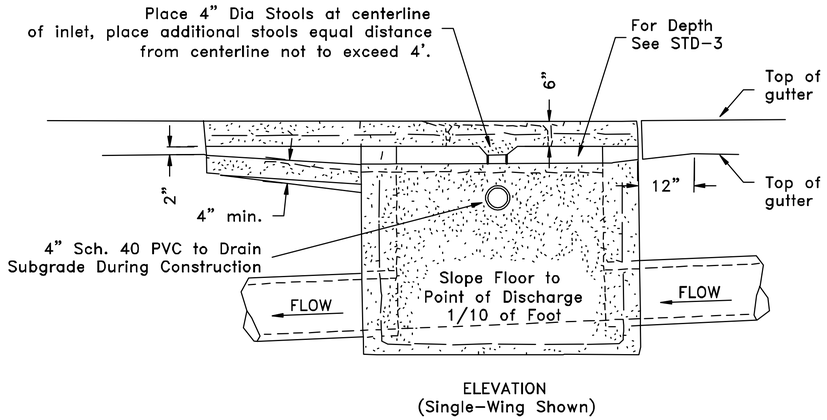
DATE	REVISION	FILMED
7-26-12	REVISED GENERAL NOTE 2.	
12-15-11	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

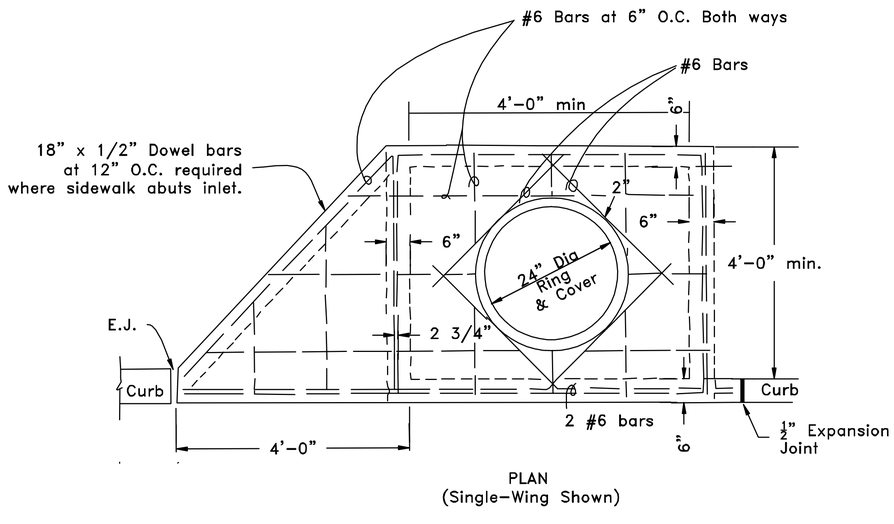
TEMPORARY EROSION CONTROL DEVICES

STANDARD DRAWING TEC-4

STANDARD DETAILS	TITLE		STD–1
CITY OF SHERWOOD ARKANSAS	CURB INLET – SINGLE WING REINFORCED CONCRETE CONSTRUCTION DETAILS	Issue Date January 19, 2007	Revision Date 2–27–07



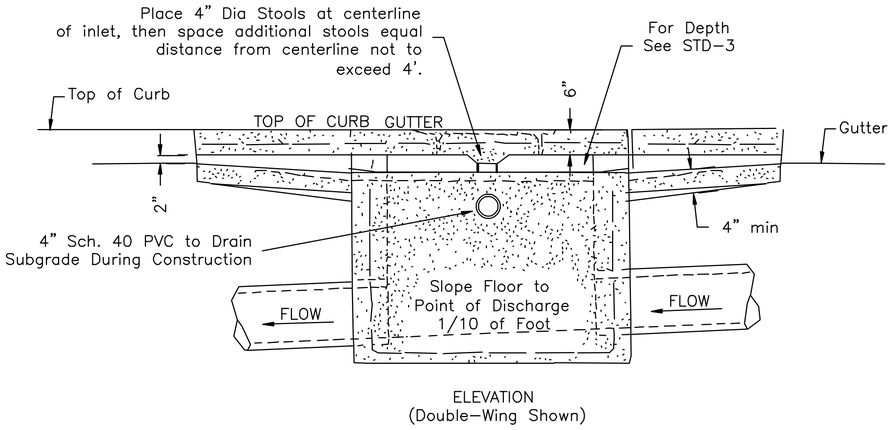
ELEVATION
(Single–Wing Shown)



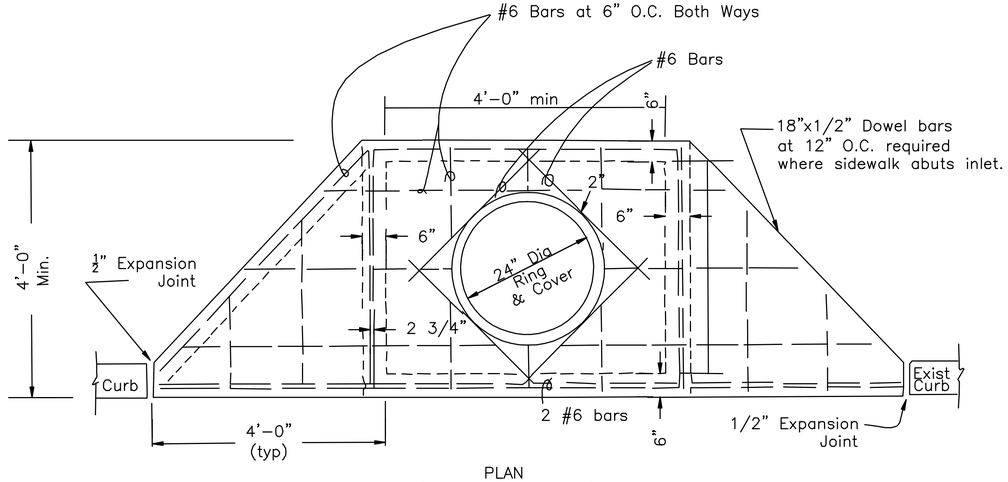
PLAN
(Single–Wing Shown)

SEE STD–12 OR STD–13
FOR RING AND COVER SPECS.

STANDARD DETAILS	TITLE		STD–2
CITY OF SHERWOOD ARKANSAS	CURB INLET – DOUBLE WING REINFORCED CONCRETE CONSTRUCTION DETAILS	Issue Date January 19, 2007	Revision Date

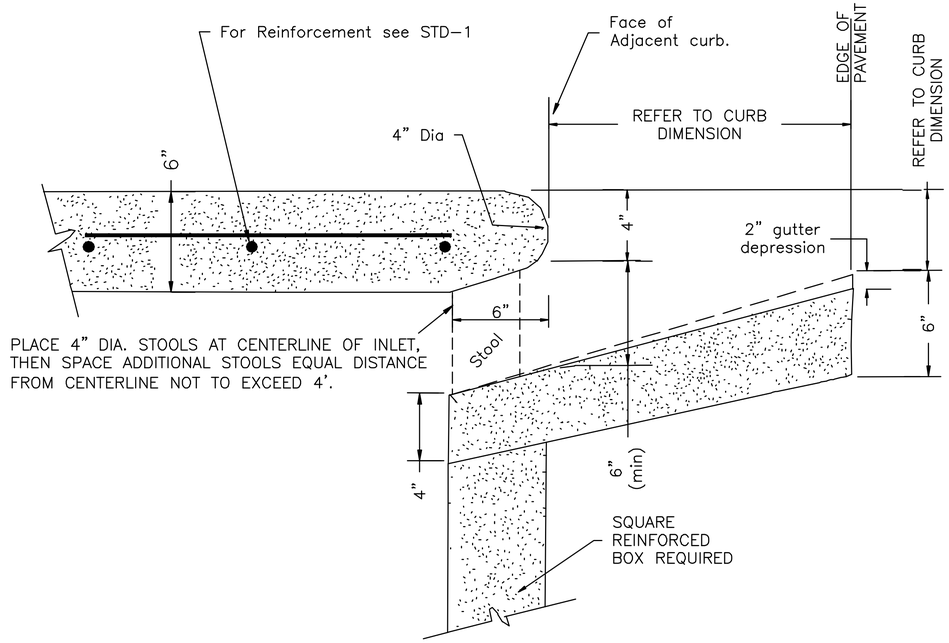


ELEVATION
(Double–Wing Shown)



PLAN
(Double–Wing Shown)

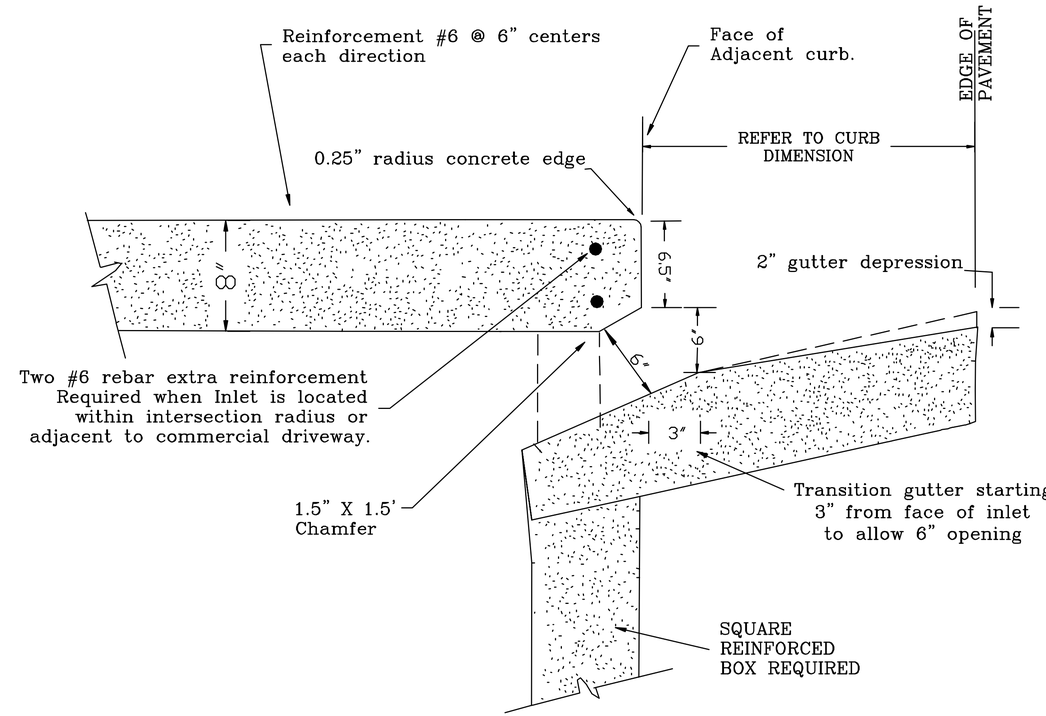
STANDARD DETAILS	TITLE		STD–9
CITY OF SHERWOOD ARKANSAS	TYPICAL DRAINAGE INLET THROAT OPENING DETAIL (NOT IN RADIUS)	Issue Date January, 2007	Revision Date



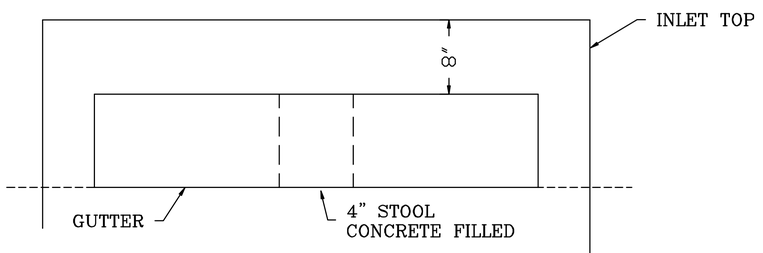
INLET THROAT BETWEEN STOOLS

NOTE: This detail is not to be used for inlets in curb radius.
See STD–10 for detial of inlet top in curb radius.

STANDARD DETAILS	TITLE		STD–9A
CITY OF SHERWOOD ARKANSAS	TYPICAL DRAINAGE INLET THROAT OPENING DETAIL DETAIL WHERE IN CURB RADIUS	Issue Date January, 2007	Revision Date



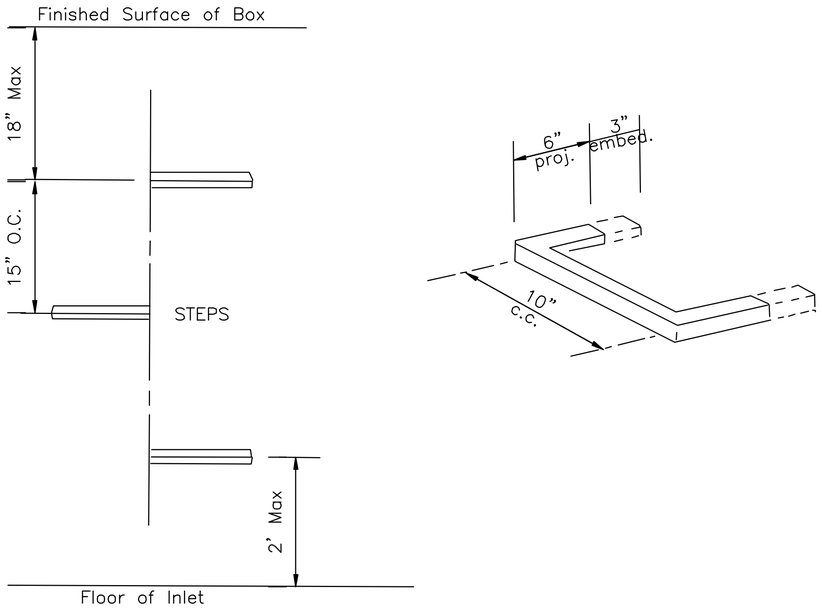
INLET THROAT IN RADIUS (SIDE VIEW)



INLET THROAT IN RADIUS (FRONT VIEW)

PLACE 4" DIA. STOOLS AT CENTERLINE OF INLET, THEN SPACE ADDITIONAL STOOLS EQUAL DISTANCE FROM CENTERLINE NOT TO EXCEED 3'.

STANDARD DETAILS	TITLE		STD–11
CITY OF SHERWOOD ARKANSAS	CURB INLET STEPS	Issue Date January, 2007	Revision Date



A. Manhole steps: corrosion resistant, coated, and reinforced with steel per ASTM C–478. Steel reinforcing minimum 1/2" diameter.

B. Acceptable Manufacturers:

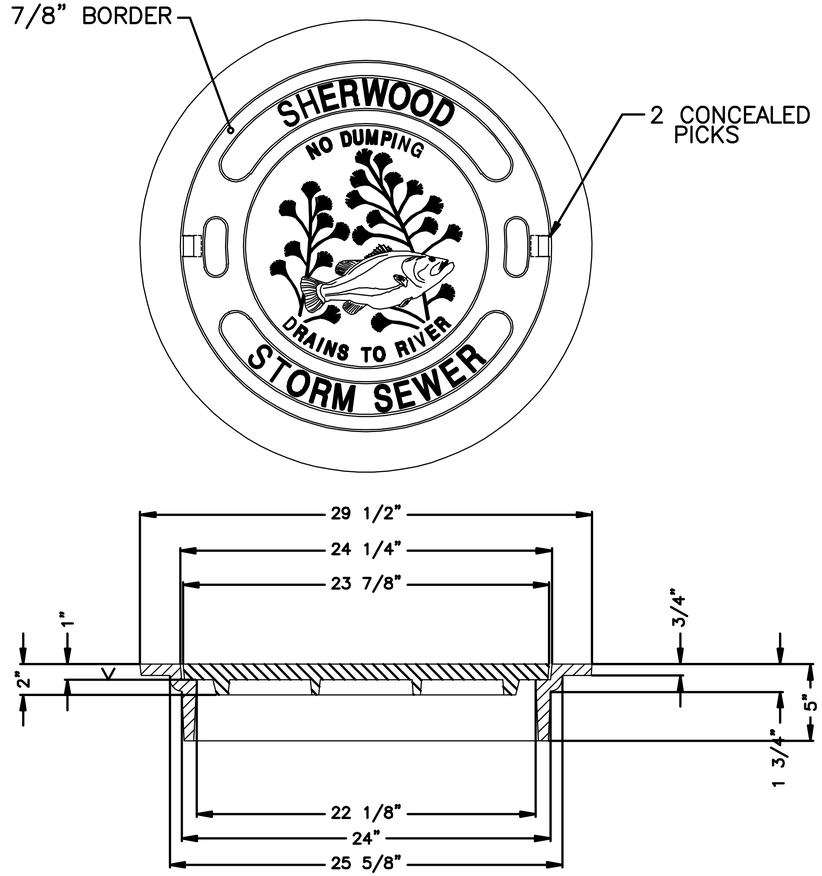
1. Utility Products Inc. Perma Step 100–2
2. ICM Inc. Polypropylene coated steps.
3. M.A Industries, Inc. Polypropylene coated steps. #PSI–PF
4. BOWCO, by H. Bowen Co.

C. Capable of supporting minimum 300 lb. load.

D. Non–Slip textured treads.

E. Required in all structures 3'–0" deep or greater.

STANDARD DETAILS	TITLE		STD–12
CITY OF SHERWOOD ARKANSAS	TYPE 1 RING AND COVER NON–TRAFFIC	Issue Date January, 2007	Revision Date

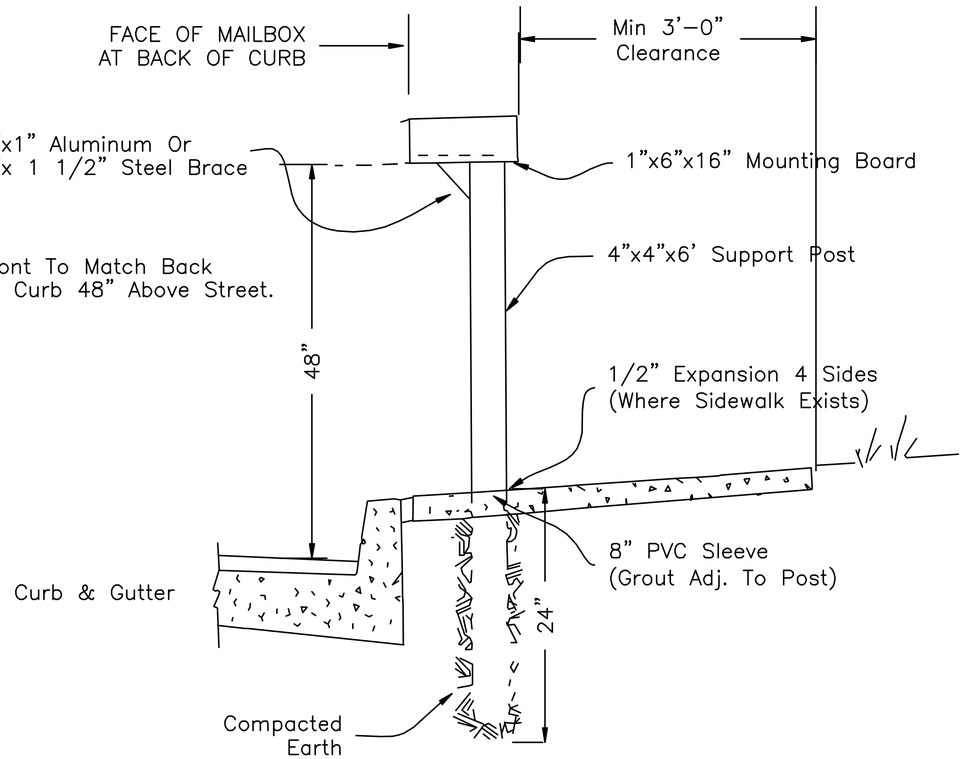


NOTE:
1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACES.

ITEM:
1. #2018–A (ENVIRONMENTAL) AS MANUFACTURED BY DEETER FOUNDARY, INC. OR EAST JORDAN 2750A MANHOLE COVER (275–24) WITH ABOVE LETTERING, OR APPROVED EQUAL PER ENGINEER.

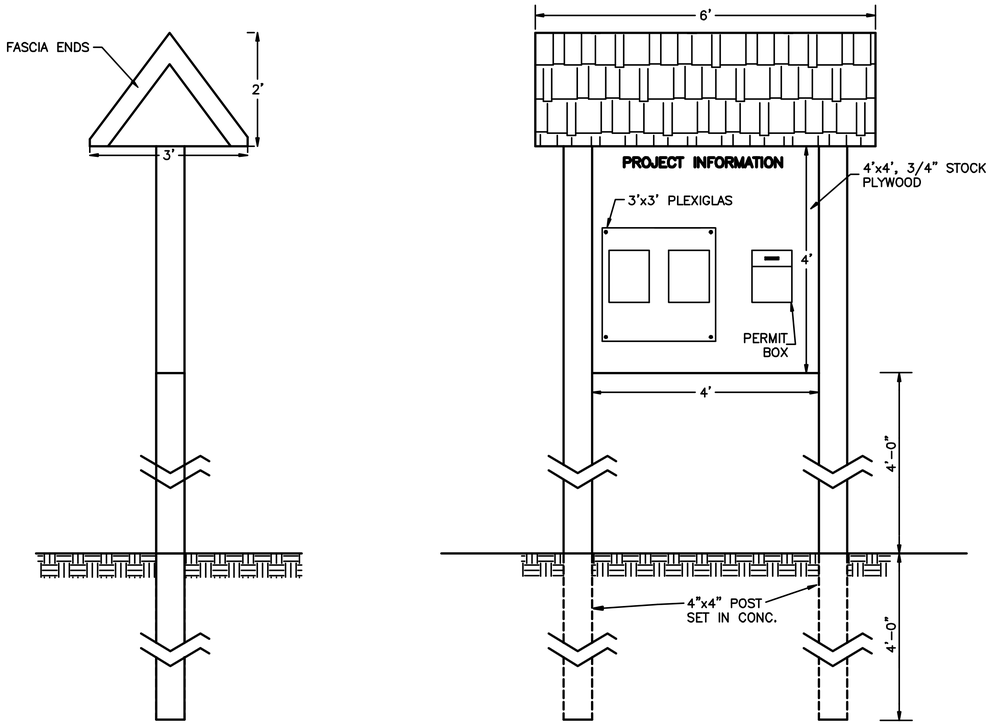
MATERIAL:	CAST GRAY IRON ASTM A–48, CLASS 35B
FINISH:	NO PAINT
WEIGHT:	COVER 140 LBS. FRAME 133 LBS.

STANDARD DETAILS	TITLE		STD–17
CITY OF SHERWOOD ARKANSAS	MAIL BOX INSTALLATION DETAIL	Issue Date January, 2007	Revision Date



MAIL BOX INSTALLATION

STANDARD DETAILS	TITLE		STD–18
CITY OF SHERWOOD ARKANSAS	PROJECT KIOSK FOR SUBDIVISIONS	Issue Date January, 2007	Revision Date



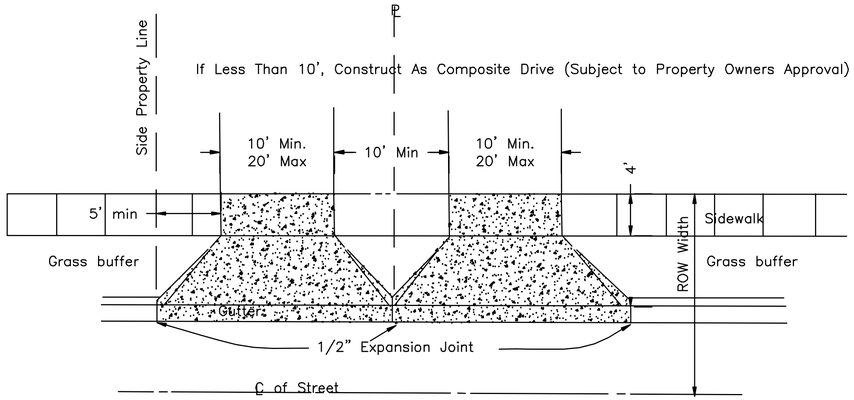
ROOF: 1/2" BOARD SHEATHING
RAFTERS ON 24" C–C (2"x4" HORIZONTAL)

SHINGLES: 3–TAB SQUARE BUTT (100 LB)
OR ROLL ROOFING (MINERAL SURFACED)
ROOFING FELT (15–LB)

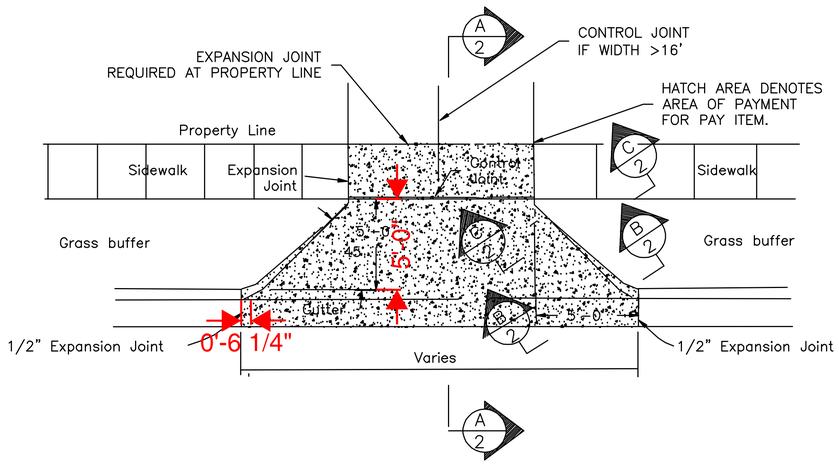
PAINT: (ALL EXPOSED WOOD SHALL BE PAINTED)
LIGHT GREY, DARK ROOF
INCLUDING UNDER EAVES.

KIOSK TO BE PLACED ON PROJECT
AS DIRECTED BY THE CITY ENGINEER.
OR AS SHOWN ON PLANS.

STANDARD DETAILS	TITLE		STD–30
CITY OF SHERWOOD ARKANSAS	RESIDENTIAL DRIVEWAY DETAILS	Issue Date January, 2007	Revision Date



PLAN–PARALLEL DRIVE

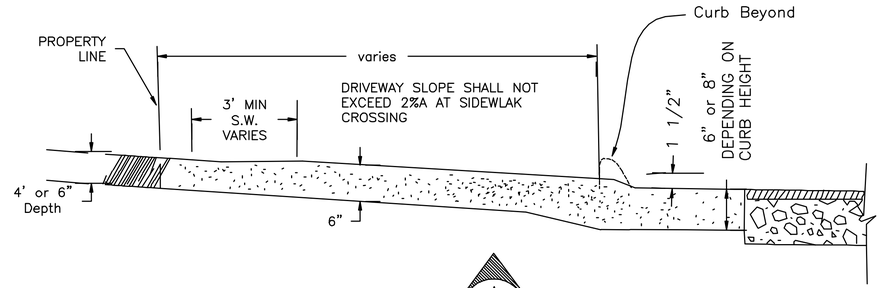


Sidewalk at Property Line

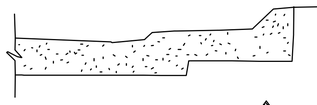
NOTE:

1. CONTROL JOINTS REQUIRED IN ALL DRIVEWAYS AT 12'–0" O.C. EACH WAY OR SPACED EQUAL TO THE WIDTH OF DRIVEWAY WHICHEVER IS LESS.
2. SECTIONS ARE ON PW–31.
3. GRASS BUFFER TO BE 5' WIDE UNLESS APPROVED BY CITY TO BE MODIFIED. GRASS BUFFER MAY BE REDUCED TO MINIMUM 36" WITH CITY APPROVAL.
4. DRIVEWAY GRADES SHALL BE DESIGNED BY ENGINEER TO KEEP STORMWATER IN STREET, 2% MINIMUM SLOPE AT SIDEWALK CROSSING, MAXIMUM % OF GRADE CHANGE IS 16.

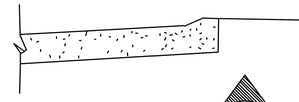
STANDARD DETAILS	TITLE		STD–31
CITY OF SHERWOOD ARKANSAS	RESIDENTIAL DRIVEWAY DETAILS	Issue Date January, 2007	Revision Date



SECTION A/2



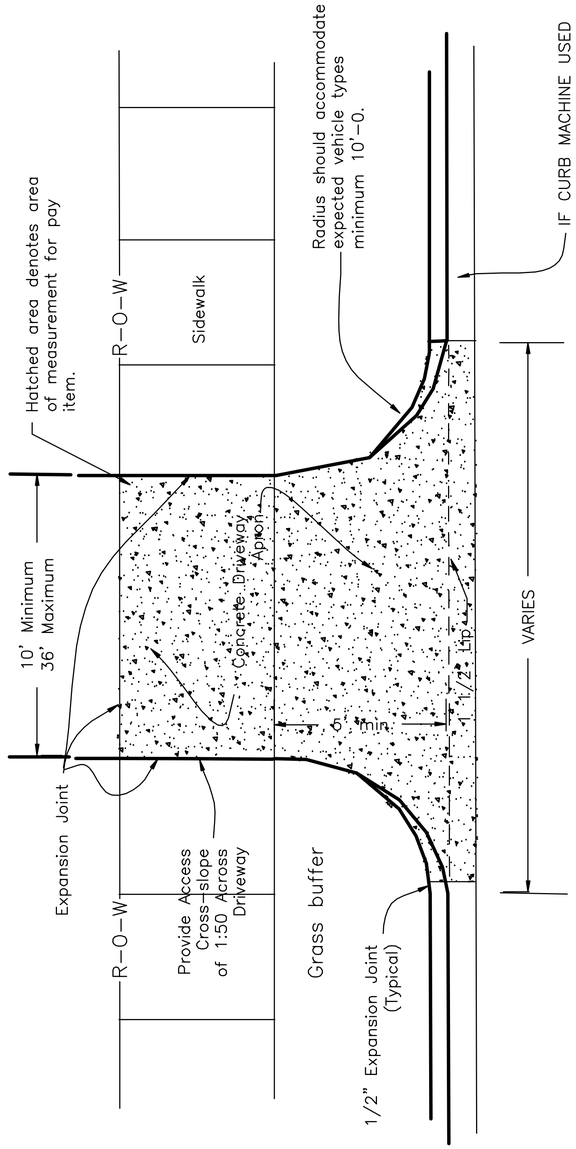
SECTION B/2



SECTION C/2

1. Driveway Grade Not To Exceed City Ordinance Requirements Stated in Section 31–210. Field Adjustment May Be Required At Certain Locations To Insure Proper Relation Between Driveway and Street Grades.
2. Driveways Shall Be Constructed To Property Line With Concrete Where Sidewalk Exists. Asphalt Permitted Where Sidewalk Does Not Exist.
3. Driveway Apron Shall Be Constructed Monolithically With Gutter Section, Unless Dowled Into Gutter Section With 1/2" Dowels 18" Long at 12" on Center and Approved by Engineer.
4. DRIVEWAY GRADES SHALL BE DESIGNED BY ENGINEER TO KEEP STORMWATER IN STREET, 2% MINIMUM SLOPE AT SIDEWALK CROSSING, MAXIMUM % OF GRADE CHANGE IS 16.

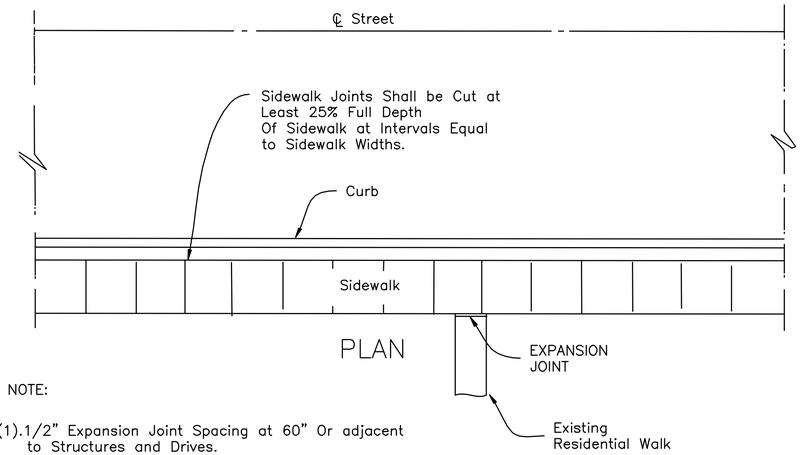
STANDARD DETAILS	TITLE		STD–34
CITY OF SHERWOOD ARKANSAS	RADIUS DRIVEWAY DETAIL FOR COMMERCIAL DRIVEWAYS (SIDEWALK AWAY FROM CURB)	Issue Date January, 2007	Revision Date



Thickness and reinforcements are required for conditions & expected wheel loading – 8" minimum thickness.

DRIVEWAY GRADES SHALL BE DESIGNED BY ENGINEER TO KEEP STORMWATER IN STREET, 2% MINIMUM SLOPE AT SIDEWALK CROSSING, MAXIMUM % OF GRADE CHANGE IS 16.

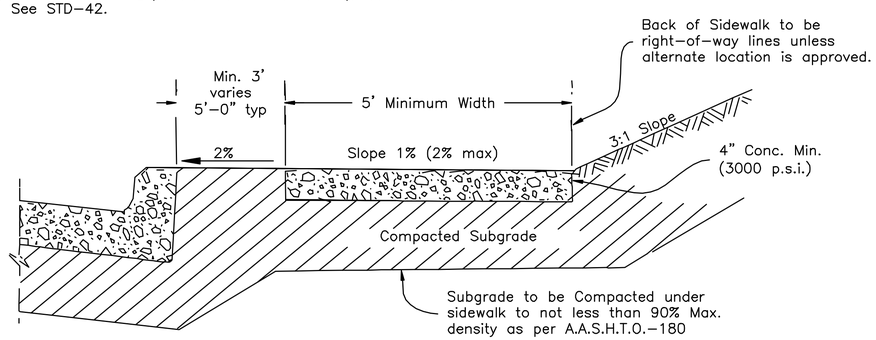
STANDARD DETAILS	TITLE		STD–41
CITY OF SHERWOOD ARKANSAS	SIDEWALK DETAILS	Issue Date January, 2007	Revision Date



PLAN

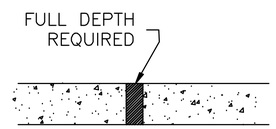
NOTE:

(1).1/2" Expansion Joint Spacing at 60" Or adjacent to Structures and Drives.
(2).Sidewalk Expansion Material is Note Required Between Sidewalk and Curb Unless Noted on Plans.
(3).Dowel bars with Expansion Joint Material required at inlets. See STD–42.



SECTION

Expansion joint shall be installed between public and private sidewalk, buildings, driveways or other structures.



EXPANSION DETAIL

STANDARD DETAILS CITY OF SHERWOOD ARKANSAS	TITLE ACCESS RAMP DETAIL (GENERAL NOTES & RAMP CRITERIA)		STD–48
		Issue Date January, 2007	Revision Date

(A) THE SLOPE OF THE RAMP SHALL NOT EXCEED 1:12 (8.33%). CONTRACTORS SHOULD FORM RAMPS AT A GRADE LOWER THAN 8.33% TO ALLOW ROOM FOR CONSTRUCTION TOLERANCES. POURING AND FINISHING RAMPS WITHOUT THE AID OF A DIGITAL LEVEL IN CHECKING GRADES IS DISCOURAGED, BECAUSE CONTRACTORS WILL BE REQUIRED TO REMOVE ANY RAMP WITH GRADES EXCEEDING REQUIREMENTS SHOWN IN STANDARD DETAILS. RAMP SURFACE SHALL BE COURSE BROOMED TRANSVERSE TO THE SLOPE. GROOVES/JOINTS ARE NOT TO BE INSTALLED IN THE RAMP SURFACE.

(B) THE MINIMUM THICKNESS OF RAMPS, SIDEWALKS AND LANDING AREAS SHALL BE 4 INCHES. CONCRETE TO BE MINIMUM 3000 p.s.i.. EXPOSED AGGREGATE CONCRETE SHALL NOT BE USED ON SURFACE RAMPS. WIRE REINFORCEMENT IS NOT REQUIRED IN RAMPS OR SIDEWALKS UNLESS SPECIFICALLY STATED IN DESIGN PLANS.

(C) THE MAXIMUM RAMP AND LANDING CROSS–SLOPE SHALL BE 2.0% UNLESS THE STREET GRADE EXCEEDS 2.0%, THEN THE CROSS–SLOPE OF THE RAMP SHALL MATCH THE STREET RUNNING GRADE. DO NOT PROVIDE TRANSITIONAL WARPS IN THE GUTTER, RAMP SURFACE OR LANDING AREA. THE STREET RUNNING GRADE IS MEASURED DIRECTLY IN FRONT OF THE RAMP WITH A 4 FOOT DIGITAL LEVEL AND IS THE GRADE OF THE STREET PERPENDICULAR TO THE RAMP RUNNING SLOPE WHERE THE ASPHALT ABUTS THE GUTTER.

(D) GUTTER SHALL NOT EXCEED 5.0% DIRECTLY IN FRONT OF A CURB RAMP. NO LIP OR VERTICLE SEPARATION SHALL BE INSTALLED BETWEEN THE GUTTER AND THE RAMP.

(E) THE MINIMUM RAMP WIDTH SHALL BE 4 FEET. A THREE FOOT WIDE RAMP IS ACCEPTABLE ONLY IN THE CASE OF AN OBSTRUCTION AND WITH CITY OF SHERWOOD ENGINEERS WRITTEN APPROVAL. CURB RAMPS, SIDEWALKS, MEDIAN CUTS AND CROSSWALKS SHALL BE ALIGNED UNLESS NOT POSSIBLE TO AID IMPAIRED USERS.

(F) RAMP SIDE FLARES SHALL NOT EXCEED 10.0% RELATIVE TO THE STREET. (EXAMPLE: IF THE STREET SLOPE IS 5.0% THEN THE SIDE FLARE SLOPE MAY BE UP TO 15.0% ON THE LOW SIDE TO ALLOW THE THE FLARE TO MATCH CURB HEIGHT IN A REASONABLE DISTANCE. THE SIDE FLARE SLOPE ON THE HIGH SIDE OF THE RAMP WOULD REMAIN AT 10.0% OR LESS GRADE SINCE IT WILL MATCH CURB HEIGHT QUICKLY).

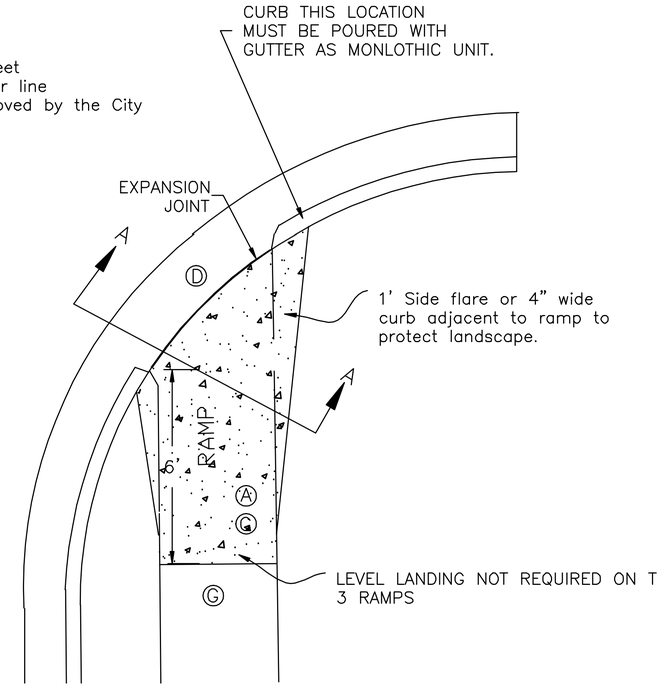
(G) A MINIMUM 3 FOOT LONG SIDEWALK TRANSITION SHALL BE PROVIDED WHEN MATCHING CURB RAMP/LEVEL LANDING TO EXISTING SIDEWALKS WITH CROSS SLOPE EXCEEDING 2.0%. ADDITIONAL TRANSITION LENGTH MAY BE REQUIRED WHEN MATCHING TO EXISTING SIDEWALK WITH SEVERE CROSS SLOPE.

(H) MEDIAN CUTS: SHALL BE 6 FEET WIDE FOR TWO–WAY PEDESTRIAN TRAFFIC ALIGNED WITH CROSSING. MEDIAN CUT CROSS SLOPE SHALL BE MAXIMUM 2.0% OR MATCH STREET GRADE WHEN ROADWAY SLOPE EXCEEDS 2.0%.

FIRST CHOICE	TYPE 1	CORNER LOCATIONS WITH WALK ADJACENT TO CURB BOTH NEW CONSTRUCTION AND ALTERATIONS
	TYPE 2	CORNER LOCATIONS WITH WALK OFFSET FROM CURB A DISTANCE INSUFFICIENT TO ALLOW REQUIRED RAMP SLOPE (BOTH NEW CONSTRUCTION AND ALTERATIONS)
	TYPE 3	CORNER LOCATIONS WITH WALK OFFSET FROM CURB A DISTANCE SUFFICIENT TO ALLOW REQUIRED RAMP SLOPE (BOTH NEW CONSTRUCTION AND ALTERATIONS)
	TYPE 4	TANGENT LOCATIONS (BOTH NEW CONSTRUCTION AND ALTERATIONS)
SECOND	TYPE 5	TANGENT LOCATIONS (ALTERATIONS ONLY)

STANDARD DETAILS CITY OF SHERWOOD ARKANSAS	TITLE ACCESS RAMP DETAIL TYPE 3 EXPANSION JOINT		STD–51
		Issue Date January, 2007	Revision Date

Ramp must cross street perpendicular to center line unless otherwise approved by the City of Sherwood Engineer.

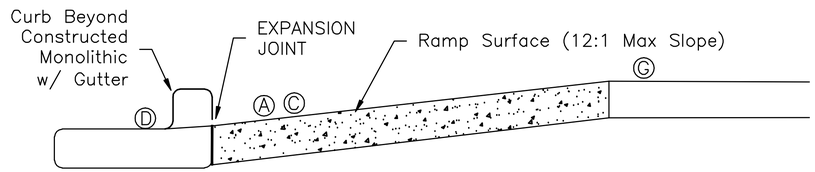


LEGEND
Ⓐ SEE NOTE "A" ON STD–48
Ⓒ SEE NOTE "C" ON STD–48
Ⓓ SEE NOTE "D" ON STD–48
Ⓖ SEE NOTE "G" ON STD–48

DENOTES ACCESS RAMP UNIT PAY AREA

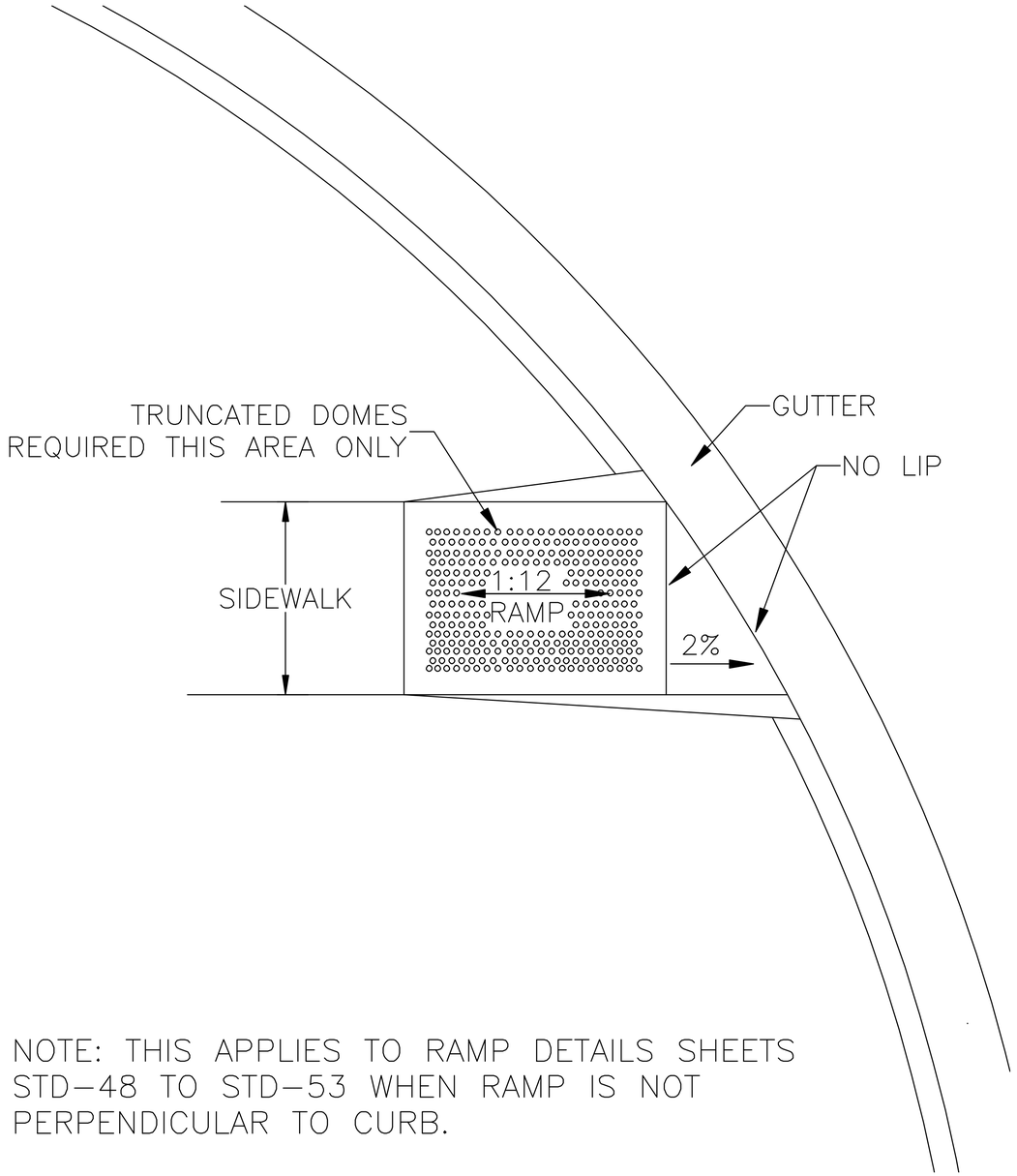
TYPE 3 RAMP
PLAN

EXPANSION JOINT
ALTERNATE 1



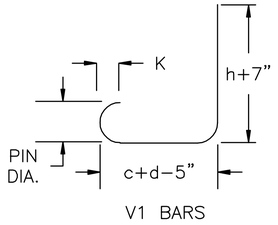
SECTION A–A

STANDARD DETAILS	TITLE		STD–53A
CITY OF SHERWOOD ARKANSAS	HANDICAP RAMP IN RADIUS	Issue Date January, 2007	Revision Date



NOTE: THIS APPLIES TO RAMP DETAILS SHEETS STD–48 TO STD–53 WHEN RAMP IS NOT PERPENDICULAR TO CURB.

STANDARD DETAILS	TITLE		STD–54
CITY OF SHERWOOD ARKANSAS	RETAINING WALL DETAILS (6' MAXIMUM HEIGHT)	Issue Date January, 2007	Revision Date

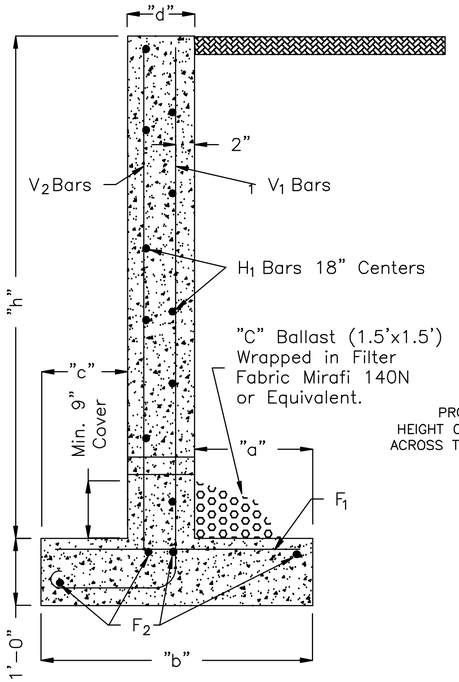


V1 BARS

NOTE: IF WALL HEIGHT EXCEEDS 8' OR IF RETAINED EARTH SLOPES UP EXCEEDING 10% GRADE, THE WALL SHALL BE DESIGNED BY PROFESSIONAL ENGINEER WITH GEOTECHNICAL STUDY.

BENDING DIAGRAM

BAR SIZE	BAR	PIN DIA.
#4	4 1/2"	2 1/2"
#5	5"	3"



PROVIDE KEYWAY AT BASE OF WALL. KEYWAY NOT REQUIRED ON WALLS LESS THAN 4'.

STEEL SCHEDULE

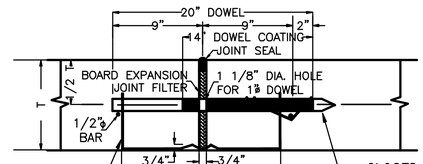
"h"	"c"	"d"	"a"	"b"	V_1 bars Size	V_1 bars Spacing	F_1 bars Size	F_1 bars Spacing	H_1 #4 bars Spac.	V_2 #4 bars Spac.	F_2 #4 bars No. Req'd
1'–0"	8"	8"	8"	2'–0"	#4	12"	#4	18"	18"	18"	5
2'–0"	8"	8"	8"	2'–0"	#4	12"	#4	18"	18"	18"	5
3'–0"	8"	8"	8"	2'–0"	#4	12"	#4	18"	18"	18"	5
4'–0"	8"	8"	1'-2"	2'–6"	#4	12"	#4	12"	18"	18"	5
5'–0"	8"	8"	1'-8"	3'–0"	#4	9"	#4	9"	18"	18"	5
6'–0"	8"	8"	2'-2"	3'–6"	#4	6"	#4	6"	18"	18"	6
7'–0"	12"	8"	2'-4"	4'–0"	#4	6"	#4	6"	18"	18"	6
8'–0"	12"	8"	2'-10"	4'–6"	#4	6"	#4	6"	18"	18"	6

PROVIDE 3/4" CHAMFER FULL HEIGHT OF WALL (EACH FACE) AND, ACROSS TOP. TOOL JOINT CONCRETE CHANNEL BASE.



CONTROL JOINT

USED AT 10' O.C. EACH SIDE
(TO ALIGN WITH FENCE POSTS)



DOWEL BAR CONSTING OF MIN. #6 GA. WIRE CHAIR & DOWEL WOLDER AT EACH DOWEL & TWO 1/2" STEEL BARS AT EACH CHAIR. 3/4" EXPANSION JOINT AT 80' O.C.

CLOSED END DOWEL BAR SLEEVE TO FIT DOWEL AND BE SECURED BY BAR TIE OR WELDING.

EXPANSION JOINT

(DOWEL BARS TO BE 12" ON CENTER)

REINFORCED CONCRETE RETAINING WALL

2" WEEP HOLES (MAX. SPACING 10'–0" CTRS.) TO BE PLACED TO ALIGN WITH CONTROL JOINTS.
ALL EXPOSED EDGES TO BE CHAMFERED 3/4".

STANDARD DETAILS	TITLE		STD–55–1
CITY OF SHERWOOD ARKANSAS	CHAIN LINK FENCE DETAIL RESIDENTIAL SHEET 1 OF 2	Issue Date January, 2007	Revision Date

NOTE: POST SIZES SHOWN ARE FOR STEEL. WHERE ALUMINUM IS PROVIDED. LINE POST SHALL HAVE AN OUTSIDE DIAMETER OF 2 1/2" FOR FENCE HEIGHT OF 6' TO 12'.

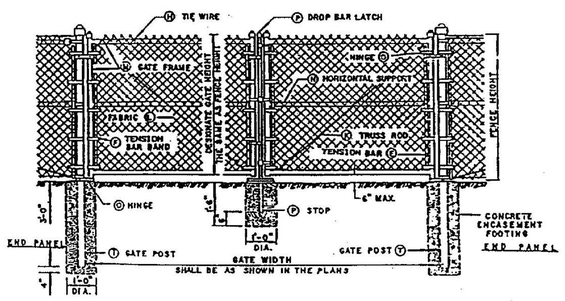
OTHER DETAILS APPLY TO BOTH STEEL AND ALUMINUM FENCES.

ALL MISCELLANEOUS AND HARDWARE SHALL MEET THE REQUIREMENTS & PRODUCTION TOLERANCES AS SET FORTH IN ASTMM F626, AASHTO M111, M232 OR M181, 9 GAUGE ALUMINUM WIRE SHALL BE ACCEPTABLE FOR TIEING FABRIC TO TUBULAR AND ROLL AND FORMED MEMBERS OF STEEL FENCE.

REQUIRED O.D. IN INCHES	GRADE 1 AND ALUMINUM ALLOY			
	O.D.* INCHES	MINIMUM WALL THICKNESS	LBS. PER LINEAR FT.*	
			STEEL	ALUMINUM
1 3/8	—	—	—	—
1 5/8	1.625	0.375	2.27	0.786
2	2.000	0.500	2.72	0.940
2 1/2	2.500	0.500	3.65	1.264
3	3.000	0.500	5.79	2.004
3 1/2	3.500	0.500	7.58	2.621
4	4.000	0.500	9.11	3.151

* ±5% Tolerance according to AASHTO M-181

DOUBLE SWING GATE



General Notes:

(D) Tension Wire: Shall be secured at all terminal, pull, brace or corner posts with tension bar bands.

(J) Brace Rail: Brace rails shall be provided at all terminal, pull, brace or corner posts halfway between the top rail and ground level and shall extend from such post to the first adjacent line post.

(L) Fabric: Shall conform to requirement of AASHTO M181, Type I, Class D.

(M) Gate Frames: Shall be constructed of tubular members assembled by use of heavy pressed steel, malleable fittings or by welding. All gates shall have one horizontal support extending the width of the gate at the midpoints of vertical frame members. The complete frame shall be rigid and have ample strength to be free from sag and twist.

(O) Hinges: Shall be of heavy pattern, of adequate strength for gate, and with large bearing surfaces for clamping in position. The hinge shall be of the proper type to allow for the designated degree of swing. The hinge shall not twist or turn under the action of the gate. The gates shall be capable of being opened and closed easily by one person.

(P) Latches and Stops: Shall be provided for all gates. Gates shall have a drop bar latch. Latches shall be arranged for locking. The stop for drop bar latches shall be set in concrete and engage the plunger of the bar latch.

(S) - Caps: All posts, except roll formed posts and "T" posts shall be capped over the exterior of the post, and shall conform to ASTM F626-84.

Class A Concrete required for the embedment of all posts shall not be paid for directly but shall be included in the contract unit price bid for chain link fence.

Posts shall be spaced equidistant on a maximum of 10' centers.

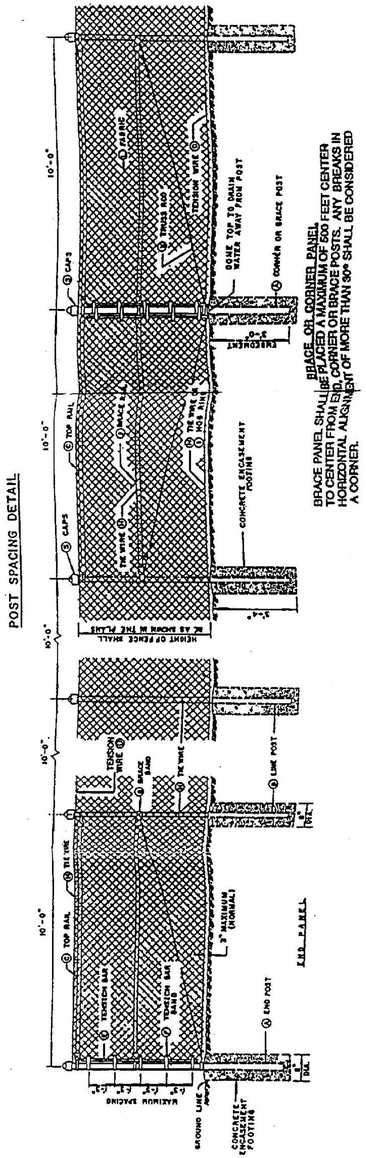
Excavation for Posts: In other than rock shall be of the dimensions indicated. If rock is encountered before reaching the required depth, the excavation shall be continued to the depth indicated or 1'6" into the rock, whichever is less, and shall be a minimum of 8 inches in diameter.

STANDARD DETAILS	TITLE		STD–55–2
CITY OF SHERWOOD ARKANSAS	CHAIN LINK FENCE DETAIL RESIDENTIAL SHEET 2 OF 2	Issue Date January, 2007	Revision Date

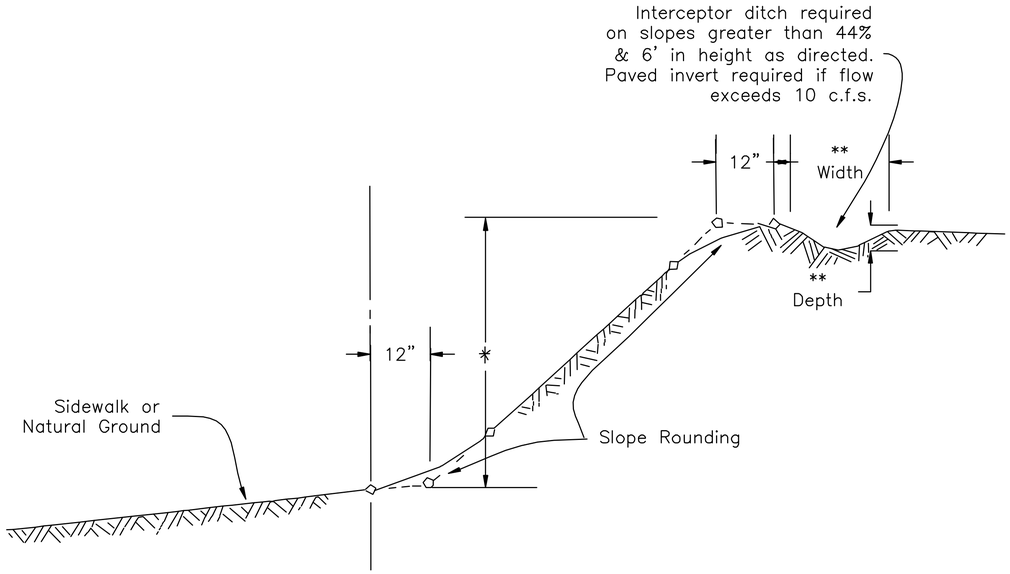
A	B	C	D	E	F	G
HEIGHT OF FENCE FABRIC	END, PULL, CORNER OR BRACE POST	LINE POST	TOP RAIL	TENSION WIRE	TENSION BAR	TENSION BAR	BRACE BAND
	SIZE	SIZE / THE SPACING	SIZE / THE SPACING	SIZE / THE SPACING	SIZE / LENGTH	SIZE / BOLT SIZE	SIZE / BOLT SIZE
6' AND LESS	2 1/2" O.D. OR 3 1/2" X 3 1/2" R.F.	2" O.D. OR H- 2.72# / 1 TIE EVERY 1'-2" OF FABRIC HEIGHT	1 5/8" O.D. / 1 TIE EVERY 2'-0"	12 GAUGE COIL SPRING WIRE / 1 TIE EVERY 18"	MIN OF 3/16" X 3/4" / MIN OF 2" LESS THAN FABRIC HEIGHT	MIN OF 3/4" X 0.074 / 5/16" X 1 1/4"	MIN OF 3/4" X 0.0105 / 5/16" X 1 1/4"

H	I	J	K	L	M	N	O	T
HEIGHT OF FENCE FABRIC	TIE WIRE	HOG RING	BRACE RAIL	TRUSS ROD	FABRIC	GATE FRAME	HORIZONTAL SUPPORT	HINGE TYPE	GATE POST
			SIZE / THE SPACING		SIZE / MESH / SELVAGE	SIZE / TIE SPACING	SIZE / TIE SPACING	180° SWING	GATE WIDTH 12' AND LESS
5' AND LESS	MIN. OF 12 GA. STEEL OR 9 G.A. ALUM.	SAME GAUGE AS FABRIC	1 5/8" O.D. / 1 TIE EVERY 2'-0	MIN. OF 5/16" ROUND WITH TIGHT-NERS AND FITTINGS	11 GAUGE / 2" / KNUCKLING AND/OR TWISTING	1 5/8" O.D. / 1 TIE EVERY 1'-0"	1 5/8" O.D. / 1 TIE EVERY 1'-0"	OFFSET	2 1/2" O.D. OR 3" X 3" R.F.

POST SPACING DETAIL



STANDARD DETAILS	TITLE		STD–61
CITY OF SHERWOOD ARKANSAS	SLOPE ROUNDING DETAIL	Issue Date January, 2007	Revision Date



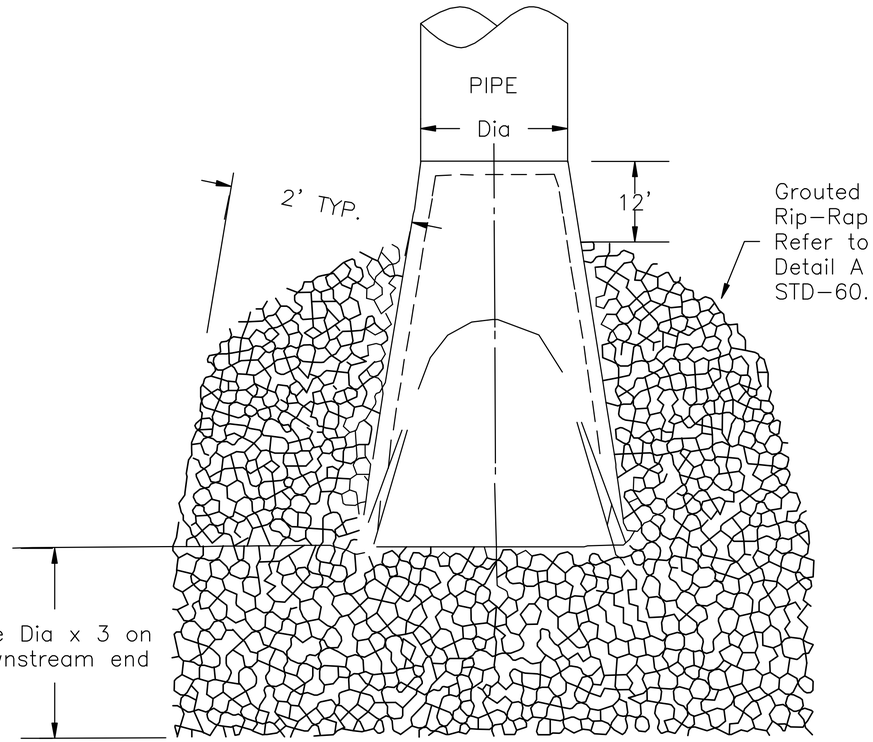
SLOPE ROUNDING

(TYPICAL ON ALL CUT OR FILL SLOPES)

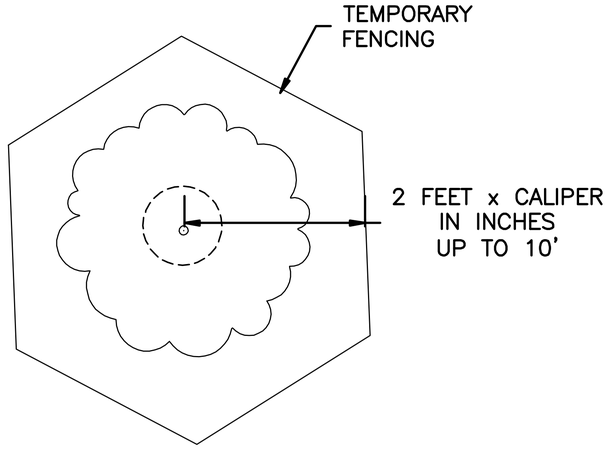
* Maximum height 15'–0" unless midheight 10' terraces utilized according to Section 29 of Little Rock Code of Ordinances.

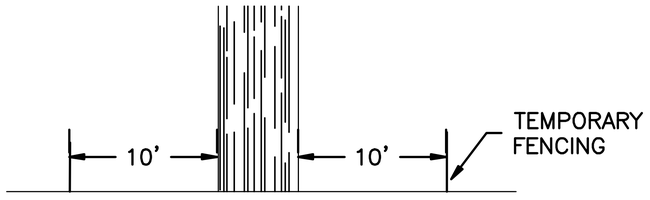
** INTERCEPTOR DITCH SIZE SHALL BE DETERMINED BY ENGINEER

STANDARD DETAILS	TITLE		STD–62
CITY OF SHERWOOD ARKANSAS	FLARED END SECTION RIP RAP PLACEMENT DOWNSTREAM END	Issue Date January, 2007	Revision Date



STANDARD DETAILS	TITLE		STD-66
CITY OF SHERWOOD ARKANSAS	TREE PROTECTION	Issue Date January, 2007	Revision Date





NO FILL WITHIN
10' OF TRUNK OF
TREE

NOTE: TEMPORARY FENCING SHALL BE PLACED PRIOR TO CONSTRUCTION IN AREA.

STANDARD DETAILS	TITLE		STD-67
CITY OF SHERWOOD ARKANSAS	SHERWOOD STANDARD STREET SIGNS	Issue Date January, 2007	Revision Date June 11, 2007



White Border
White 12" Letters
White 12" Logo
Green 18" Sign

18" High Sign with 12" Letters
with LOGO and Border

Standard Street Sign for Intersections for the City of Sherwood
Approved by the Street Com. April 11,2006

Major Intersection Sign



9" High Sign with 6" Letters
with LOGO and Border

White Border
White 6" Letters
White 6" Logo
Green 9" Sign

Standard Street Sign for the City of Sherwood
Approved by the Street Com. April 11,2006

Standard Street Sign