DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	1	104
				4	BATESVILLE MYERS ST. WIDENING (S)			

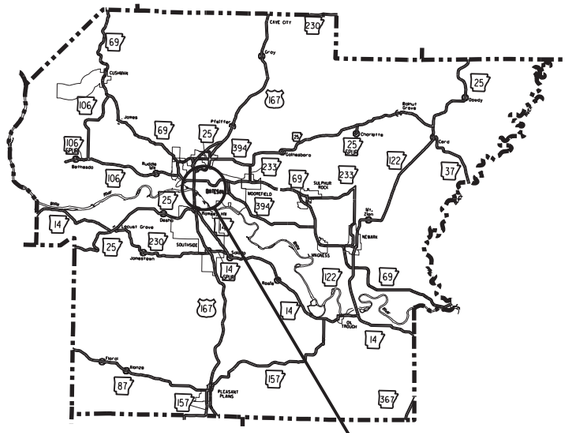
ARKANSAS DEPARTMENT OF TRANSPORTATION
CONSTRUCTION PLANS FOR PROPOSED CITY STREET

JOB C32005

BATESVILLE MYERS ST. WIDENING (S)

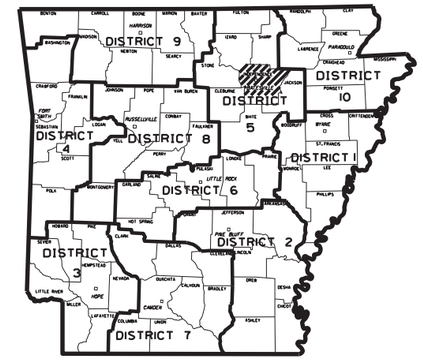
Myers Street

INDEPENDENCE COUNTY



VICINITY MAP

NOT TO SCALE

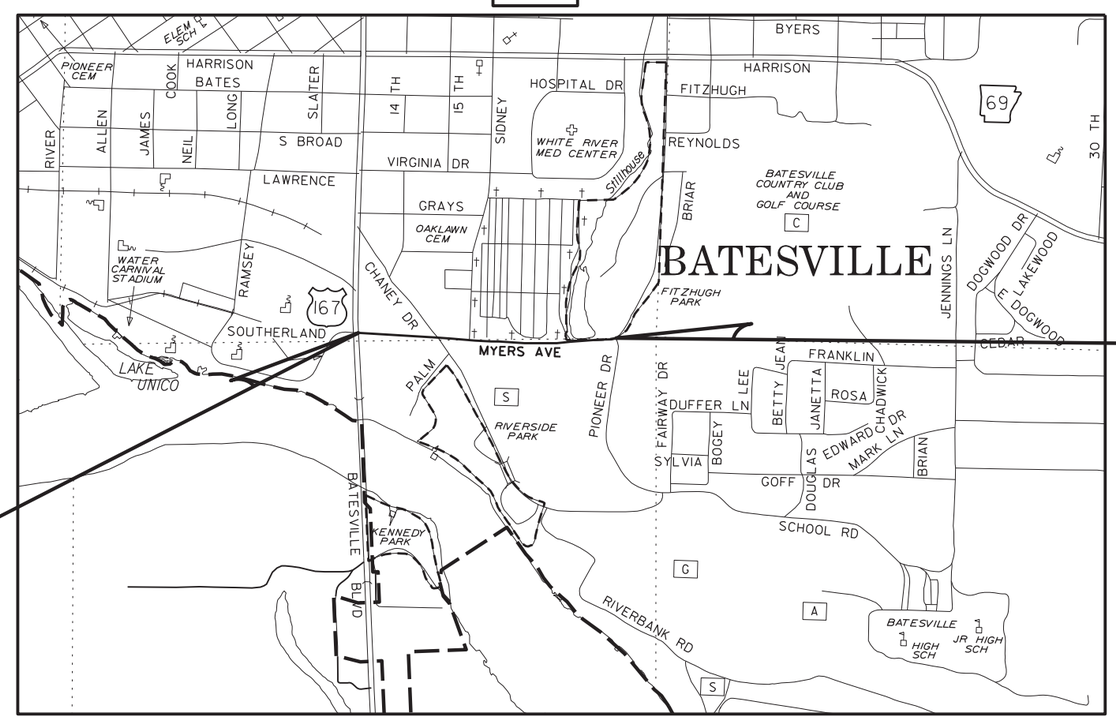


ARKANSAS HIGHWAY DISTRICT 5

N

R6W

T 13 N



T 13 N

R6W

STA. 91+36.90
BEGIN JOB C32005

STA. 115+46.88
END JOB C32005

DESIGN TRAFFIC DATA

DESIGN YEAR	2045
2025 ADT	2400
2045 ADT	2600
2045 DHV	390
DIRECTIONAL DISTRIBUTON	0.60
TRUCKS	20%
DESIGN SPEED	30 MPH

APPROVED

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 12547
JESSIE XU JONES

Date: 2025.04.10
11:42:35-05'00'

CHIEF ENGINEER - PRECONSTRUCTION

PROJECT COORDINATES:

	BEGIN	MID-POINT	END
LAT.	N 35° 45' 45.0"	N 35° 45' 44.2"	N 35° 45' 44.4"
LONG.	W 91° 38' 28.2"	W 91° 38' 13.6"	W 91° 37' 59.0"

GROSS	LENGTH	OF	PROJECT	2409.98	FEET	OR	0.456	MILES
NET	"	"	ROADWAY	2409.98	"	"	0.456	"
NET	"	"	BRIDGE	0.00	"	"	0.000	"
NET	"	"	PROJECT	2409.98	"	"	0.456	"

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
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4 INDEX OF SHEETS AND STANDARD DRAWINGS

INDEX OF SHEETS

SHEET NO.	TITLE
1	TITLE SHEET
2	INDEX OF SHEETS AND STANDARD DRAWINGS
3	GOVERNING SPECIFICATIONS AND GENERAL NOTES
4 - 19	TYPICAL SECTIONS OF IMPROVEMENT
20 - 31	SPECIAL DETAILS
32 - 36	TEMPORARY EROSION CONTROL DETAILS
37 - 42	PERMANENT PAVEMENT MARKING DETAILS
43 - 46	QUANTITIES
47	SUMMARY OF QUANTITIES AND REVISIONS
48 - 53	SURVEY CONTROL DETAILS
54 - 71	PLAN AND PROFILE SHEETS
72 - 104	CROSS SECTIONS

NOTE: CROSS SECTIONS NOT INCLUDED IN PROSPECTIVE BIDDERS' PLANS MAY BE OBTAINED UPON REQUEST.

ROADWAY STANDARD DRAWINGS

DRWG. NO.	TITLE	DATE
CG-1	CURBING DETAILS	11-29-07
CPTJ-6A	TRANSVERSE & LONGITUDINAL JOINTS FOR CONCRETE PAVEMENT (NOT-REINFORCED)	11-07-19
DR-1	DETAILS OF DRIVEWAYS & ISLAND	05-19-22
FES-1	FLARED END SECTION	10-18-96
FES-2	FLARED END SECTION	10-18-96
FPC-9M	DETAILS OF DROP INLET (TYPE MO)	08-22-02
FPC-9N	DETAILS OF DROP INLETS AND SPILLWAY OUTLET	07-02-98
FPC-9S	DETAILS OF DROP INLET & JUNCTION BOX (TYPE ST)	07-26-12
PCC-1	CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING	02-27-14
PM-1	PAVEMENT MARKING DETAILS	02-27-20
SHS-1	STANDARD HIGHWAY SIGNS AND SUPPORT ASSEMBLIES	09-12-13
SHS-2	U-CHANNEL POST ASSEMBLIES	07-25-19
SI-1	DETAILS OF SPECIAL ITEMS	10-25-18
SI-2	REINFORCED CONCRETE RETAINING WALL (WITHOUT LIVE LOAD SURCHARGE)	05-14-20
TC-1	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	11-07-19
TC-2	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	05-20-21
TC-3	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	08-12-21
TEC-1	TEMPORARY EROSION CONTROL DEVICES	11-16-17
TEC-2	TEMPORARY EROSION CONTROL DEVICES	06-02-94
TEC-3	TEMPORARY EROSION CONTROL DEVICES	11-03-94
WR-1	WHEELCHAIR RAMPS NEW CONSTRUCTION AND ALTERATIONS	11-10-05

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING

Digitally signed by Freeling, Bryan E.
Date: 2025.04.17 11:22:28-05'00'

INDEX OF SHEETS AND STANDARD DRAWINGS

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05-09-2025				6	ARK.			
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4 GOVERNING SPECIFICATIONS & GENERAL NOTES

GOVERNING SPECIFICATIONS

ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2014, AND THE FOLLOWING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS:

NUMBER	TITLE
ERRATA	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
100-3	CONTRACTOR'S LICENSE
100-4	DEPARTMENT NAME CHANGE
102-2	ISSUANCE OF PROPOSALS
102-3	PREQUALIFICATION OF BIDDERS
103-2	CONTACT INFORMATION FOR MOTORIST DAMAGE CLAIMS
105-4	MAINTENANCE DURING CONSTRUCTION
107-2	RESTRAINING CONDITIONS
108-1	LIQUIDATED DAMAGES
108-2	WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
110-1	PROTECTION OF WATER QUALITY AND WETLANDS
210-1	UNCLASSIFIED EXCAVATION
303-1	AGGREGATE BASE COURSE
306-1	QUALITY CONTROL AND ACCEPTANCE
400-1	TACK COATS
400-4	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
400-5	PERCENT AIR VOIDS FOR ACHM MIX DESIGNS
400-6	LIQUID ANTI-STRIP ADDITIVE
400-7	TRACKLESS TACK
404-3	DESIGN OF ASPHALT MIXTURES
409-2	ASPHALT LABORATORY FACILITY
410-1	CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES
410-2	DEVICES FOR MEASURING DENSITY FOR ROLLING PATTERNS
410-4	EVALUATION OF ACHM SUBLOT REPLACEMENT MATERIAL
416-1	RECYCLED ASPHALT PAVEMENT
501-3	PORTLAND CEMENT CONCRETE PAVEMENT
505-1	PORTLAND CEMENT CONCRETE DRIVEWAY
600-2	INCIDENTAL CONSTRUCTION
604-1	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
604-3	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES (MASH)
606-1	PIPE CULVERTS FOR SIDE DRAINS
621-1	FILTER SOCKS
632-1	CONCRETE ISLAND
633-1	CONCRETE WALKS, CONCRETE STEPS, AND HAND RAILING
634-1	CURBING
723-1	GENERAL REQUIREMENTS FOR SIGNS
729-1	CHANNEL POST SIGN SUPPORT
800-1	STRUCTURES
802-5	CONCRETE FOR STRUCTURES
804-2	REINFORCING STEEL FOR STRUCTURES
JOB C32005	ASPHALT MIXTURES WITH PG 76-22 BINDER
JOB C32005	BIDDING REQUIREMENTS AND CONDITIONS
JOB C32005	BROADBAND INTERNET SERVICE FOR FIELD OFFICE
JOB C32005	DENSITIES FOR ACHM SURFACE COURSE
JOB C32005	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
JOB C32005	DRINKING WATER PROTECTION
JOB C32005	LIQUIDATED DAMAGES PROCEDURE FOR BID LETTINGS
JOB C32005	MAINTENANCE OF TRAFFIC
JOB C32005	MANDATORY ELECTRONIC CONTRACT
JOB C32005	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB C32005	PCC PAVEMENT SURFACE SMOOTHNESS (IRI)
JOB C32005	PLASTIC PIPE
JOB C32005	SHORING FOR CULVERTS
JOB C32005	STORM WATER POLLUTION PREVENTION PLAN
JOB C32005	UTILITY ADJUSTMENTS
JOB C32005	VALUE ENGINEERING
JOB C32005	WARM MIX ASPHALT

GENERAL NOTES

1. GRADE LINE DENOTES FINISHED GRADE WHERE SHOWN IN PLANS
2. UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE MOVED BY THE OWNERS.
3. THE CONTRACTOR SHALL MAINTAIN MAILBOXES WITHIN THE PROJECT LIMITS SUCH THAT THE PUBLIC MAY RECEIVE CONTINUED MAIL SERVICE. THE CONTRACTOR SHALL REMOVE AND RESTORE TO THE PROPER HEIGHT THE EXISTING MAILBOX POSTS AND MAILBOXES AS DIRECTED BY THE ENGINEER. ITEMS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT NO COST TO THE DEPARTMENT. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED INCLUDED IN THE CONTRACT PRICES BID FOR OTHER ITEMS OF THE CONTRACT.
4. ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD SPECIFICATIONS.
5. ALL TREES THAT DO NOT DIRECTLY INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE SPARED AS DIRECTED BY THE ENGINEER. CARE AND DISCRETION SHALL BE USED TO INSURE THAT ALL TREES NOT TO BE REMOVED SHALL BE HARMED AS LITTLE AS POSSIBLE DURING THE CONSTRUCTION OPERATIONS.
6. PAVEMENT TO BE REMOVED SHALL BE SEPARATED BY SAWING ALONG A NEAT LINE. PAVEMENT SHALL BE REMOVED IN A MANNER THAT WILL NOT DAMAGE THE PAVEMENT RETAINED. ANY DAMAGE TO RETAINED PAVEMENT SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
7. TEMPORARY EASEMENTS ARE PROVIDED FOR CONTRACTOR ACCESS. AREAS OUTSIDE THE CONSTRUCTION LIMITS SHALL NOT BE CLEARED OR GRUBBED UNLESS DIRECTED BY THE ENGINEER.
8. AREAS WITHIN CONSTRUCTION LIMITS NOT CLASSIFIED AS CLEARING AND GRUBBING SHALL BE SCALPED AS DIRECTED BY THE ENGINEER. SCALPING WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED INCLUDED IN THE CONTRACT PRICES BID FOR OTHER ITEMS OF THE CONTRACT.
9. AGGREGATE BASE TO BE PLACED AND SPREAD TO CONFORM TO TYPICAL SECTION. THE MATERIAL IN THE BASE COURSE SHALL BE UNIFORMLY COMPACTED, STABLE, AND FREE OF SEGREGATED AREAS. DENSITY REQUIREMENTS ARE NOT A PART OF THIS CONTRACT.
10. THE ROAD SHALL BE MAINTAINED AND REMAIN OPEN TO TRAFFIC THROUGHOUT THE PROJECT.
11. THE CONTRACTOR WILL BE REQUIRED TO PROTECT SIDEWALKS DURING PAVING OPERATIONS.
12. THE SEQUENCE AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS IS A GENERAL OUTLINE FOR THE CONSTRUCTION OF THIS PROJECT, AND IN NO WAY IS IT INTENDED TO COVER EVERY ITEM IN THE PROJECT. ITEMS NOT CRITICAL TO THE CONSTRUCTION SEQUENCE MAY BE CONSTRUCTED IN ANY STAGE AS APPROVED BY THE RESIDENT ENGINEER.
13. SUPPLYING UTILITY RISERS AND INSTALLATION OF PERMANENT TRAFFIC SAFETY SIGNS NOT SHOWN IN THE PLANS IS THE RESPONSIBILITY OF THE CITY OF BATESVILLE
14. CONTRACTOR TO COORDINATE WITH THE CITY OF BATESVILLE FOR THE ADJUSTMENT OF MANHOLES AND WATER VALVE COVERS.
15. THE CONTRACTOR SHALL CLIP GRASS AND DEBRIS FROM THE EDGE OF THE EXISTING ROADWAY. THESE "CLIPPINGS" SHALL BE PULLED UP TO THE EDGE OF THE NEW PAVEMENT IN SECTIONS WHERE THE SHOULDERS ARE NOT BEING REBUILT WITH AGGREGATE OR BORROW. NO DIRECT PAYMENT WILL BE MADE FOR THIS WORK.
16. DRIVEWAY EXCAVATION AND DISPOSAL OF MATERIAL PRODUCED FROM DRIVEWAY EXCAVATION SHALL BE AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED INCLUDED IN THE CONTRACT PRICES BID FOR OTHER ITEMS OF THE CONTRACT.
17. RELOCATION OF USPS COLLECTION BOXES THROUGHOUT THE PROJECT IS THE RESPONSIBILITY OF BASTEVILLE.
18. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A METHOD OF ACCESS AND EGRESS TO EVERY ENTITY THROUGHOUT THE PROJECT.
19. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION NECESSARY TO MAKE SURE NO DAMAGE IS DONE TO TOMBSTONES.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
05/09/25
BRYAN FREELING

GOVERNING SPECIFICATIONS AND GENERAL NOTES

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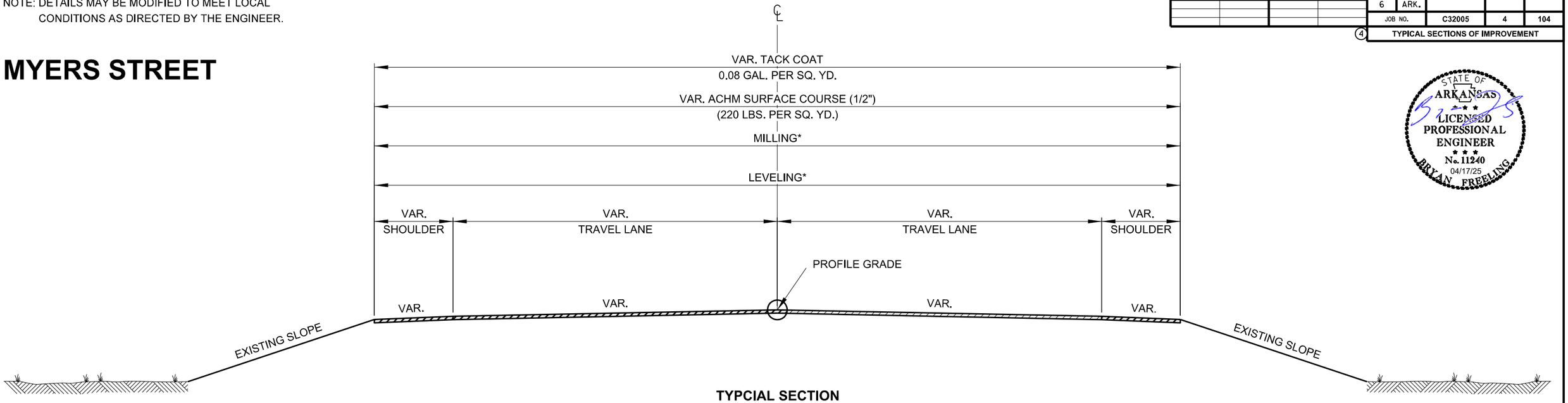
4 TYPICAL SECTIONS OF IMPROVEMENT

NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL CONDITIONS AS DIRECTED BY THE ENGINEER.

MYERS STREET

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 11240 04/17/25 BRYAN FREELING



TYPCIAL SECTION

STA. 91+36.90 - STA. 92+17.78

NOTE: REFER TO CROSS SECTIONS FOR DEVIATION FROM THE NORMAL SLOPES. NO CHANGE SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.

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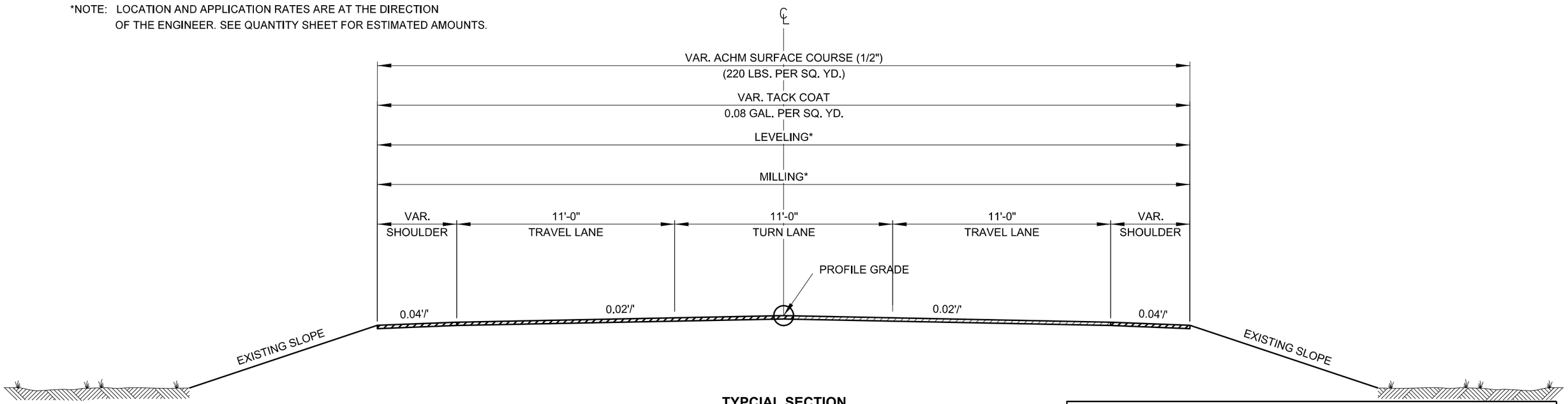

TYPCIAL SECTION

STA. 92+17.78 - STA. 100+00.00

TYPICAL SECTIONS OF IMPROVEMENT

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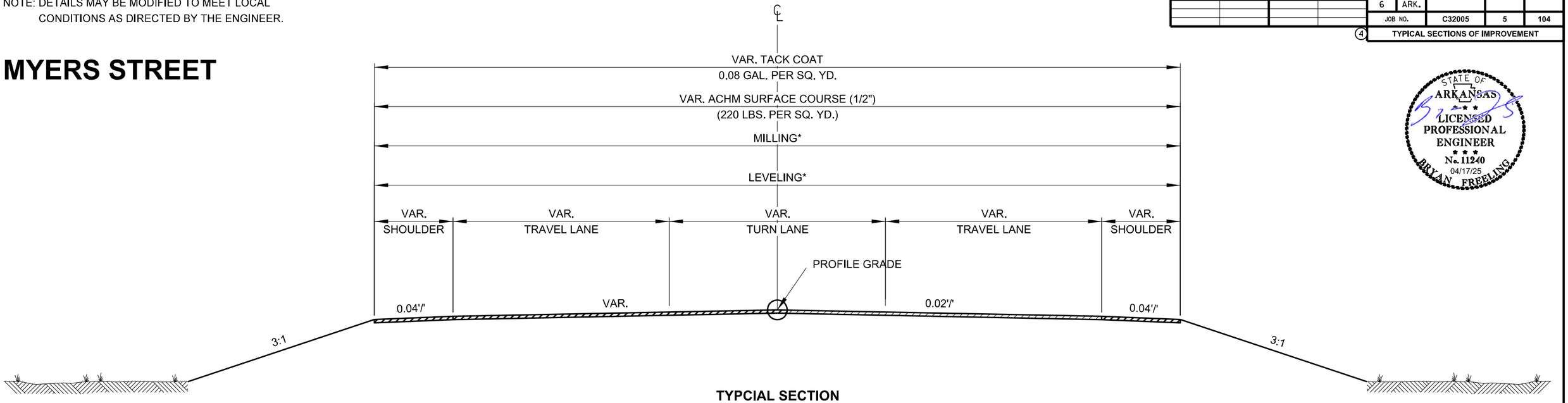
MYERS STREET

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 11240 04/17/25 BRYAN FREELING



TYPCIAL SECTION

STA. 100+00.00 - STA. 100+50.00

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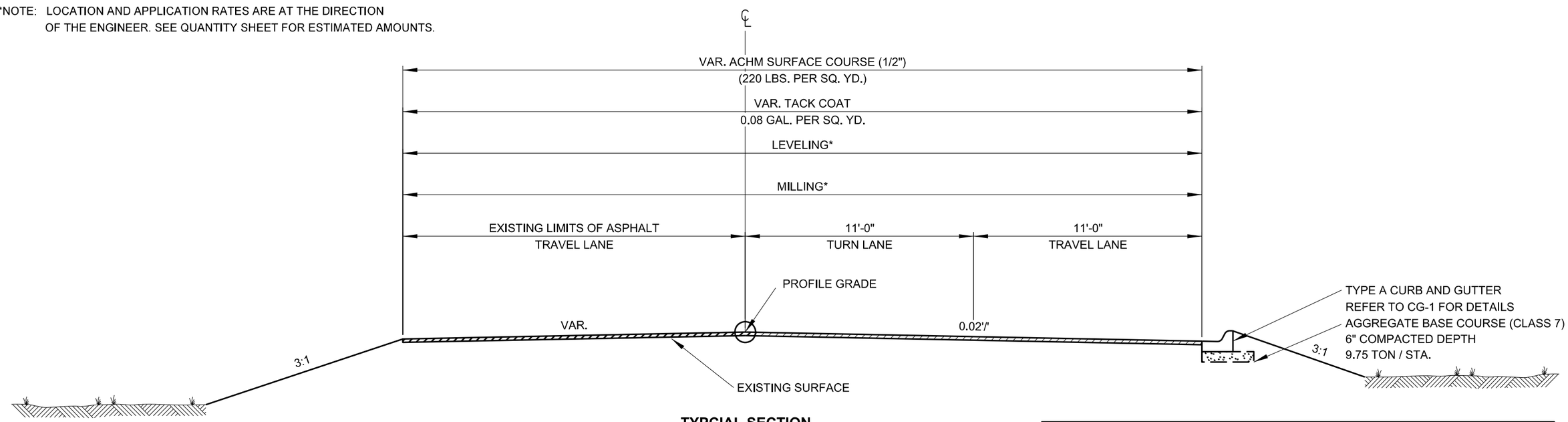

TYPCIAL SECTION

STA. 100+50.00 - STA. 101+00.00

TYPICAL SECTIONS OF IMPROVEMENT

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MYERS STREET

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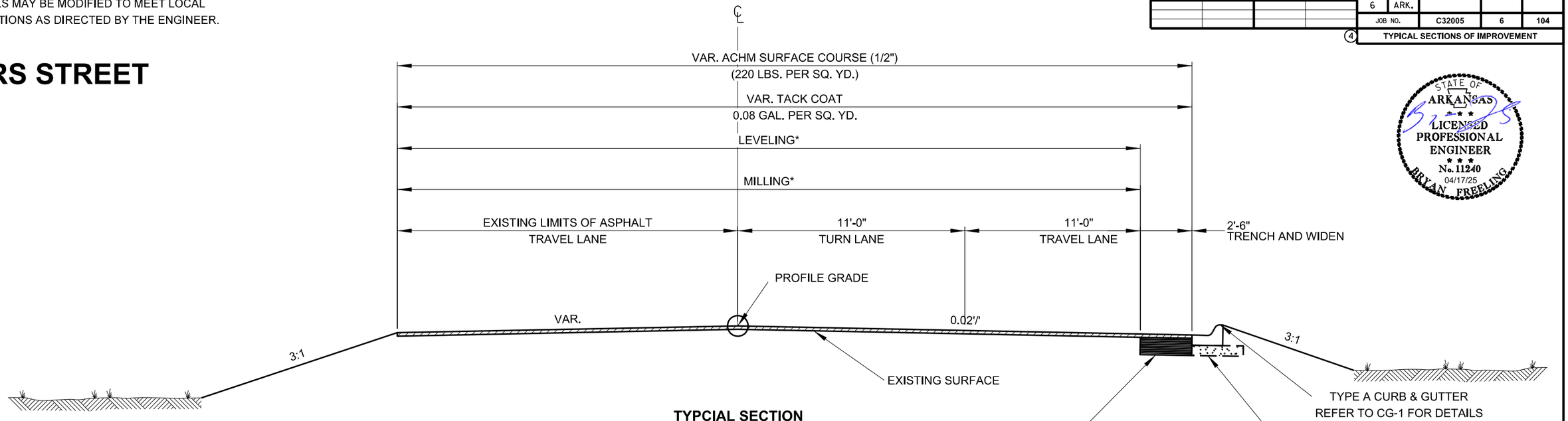

TYPCIAL SECTION

STA. 101+00.00 - STA. 101+20.00

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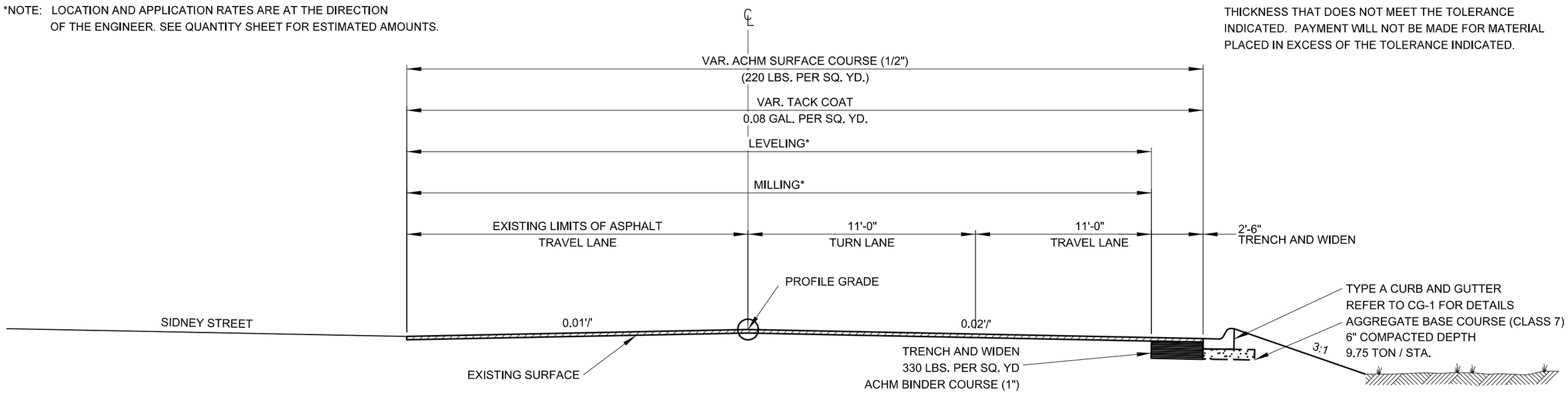

TYPCIAL SECTION

STA. 101+20.00 - STA. 101+50.00

TYPICAL SECTIONS OF IMPROVEMENT

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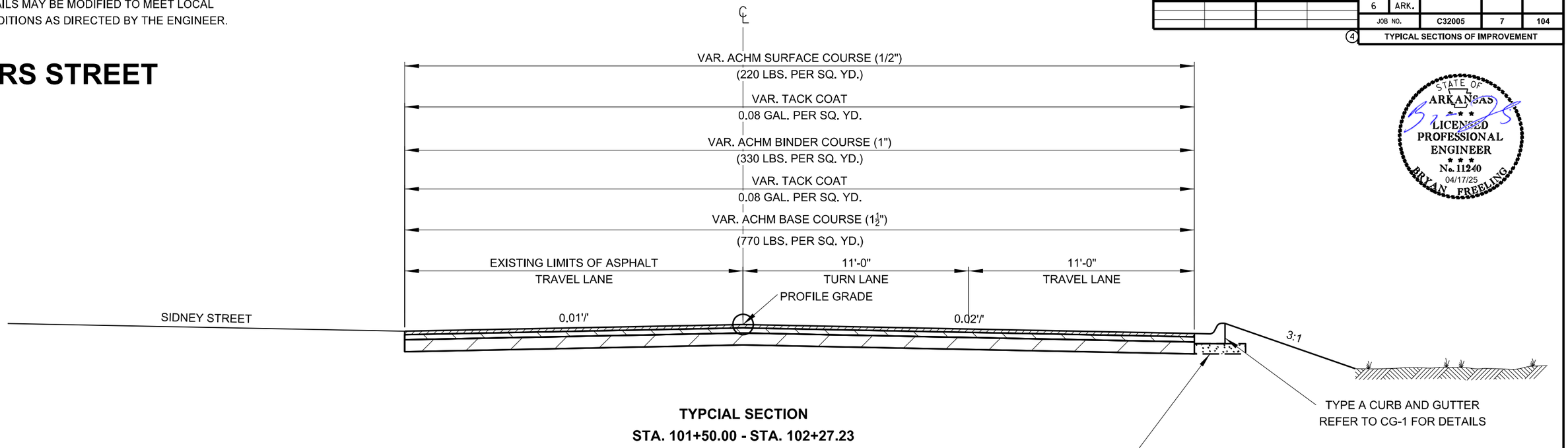
MYERS STREET

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 11240 04/17/25 BRYAN FREELING



TYPCIAL SECTION

STA. 101+50.00 - STA. 102+27.23

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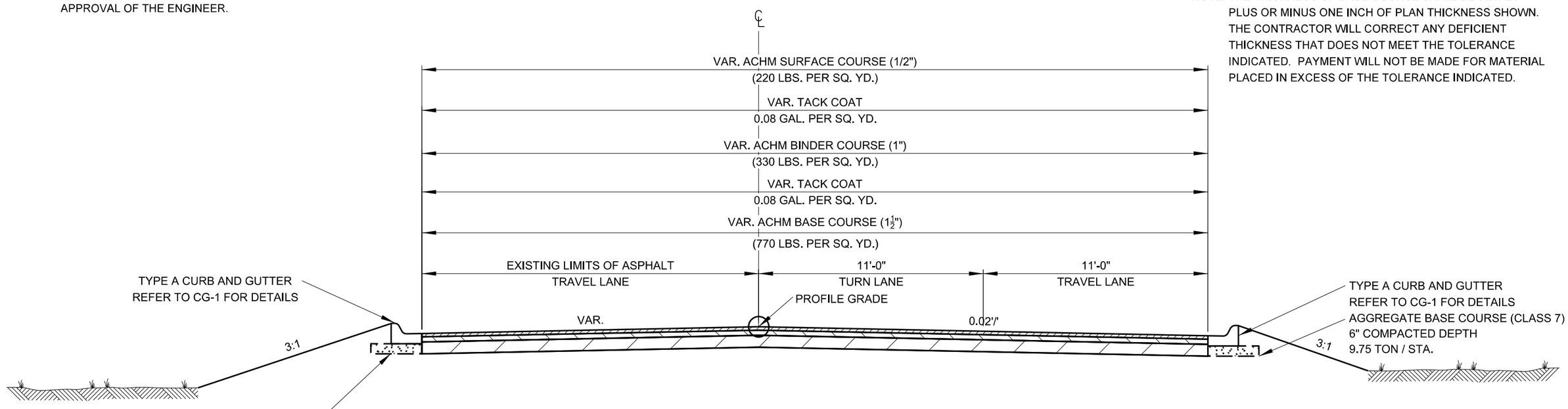

TYPCIAL SECTION

STA. 102+27.23 - STA. 102+50.00

TYPICAL SECTIONS OF IMPROVEMENT

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4 TYPICAL SECTIONS OF IMPROVEMENT

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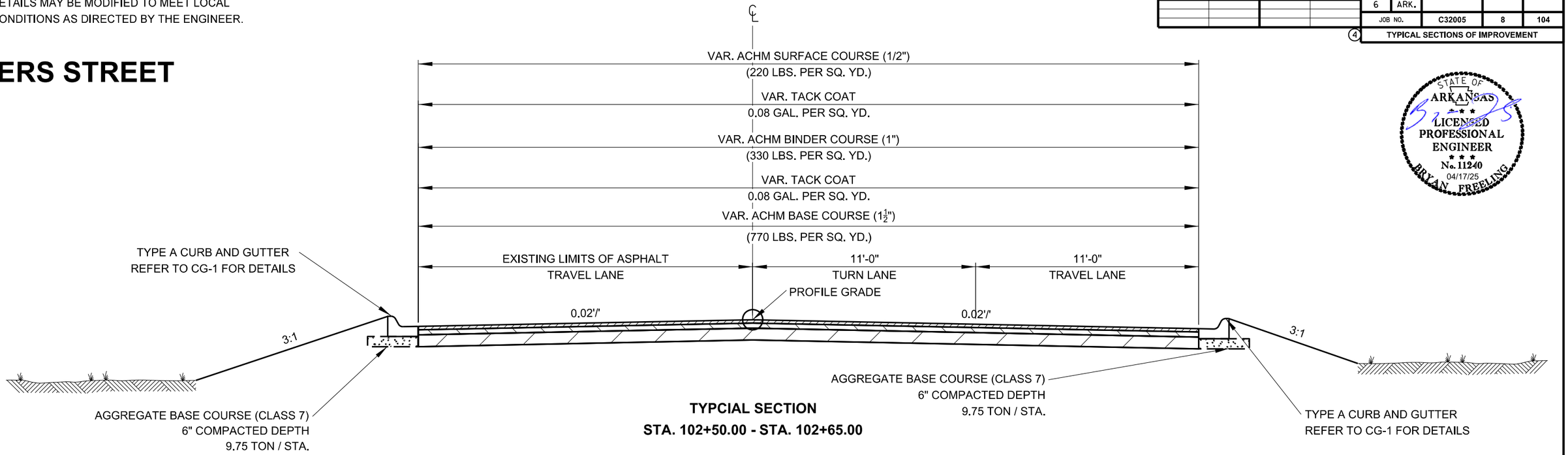
MYERS STREET

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 11240 04/17/25 BRYAN FREELING



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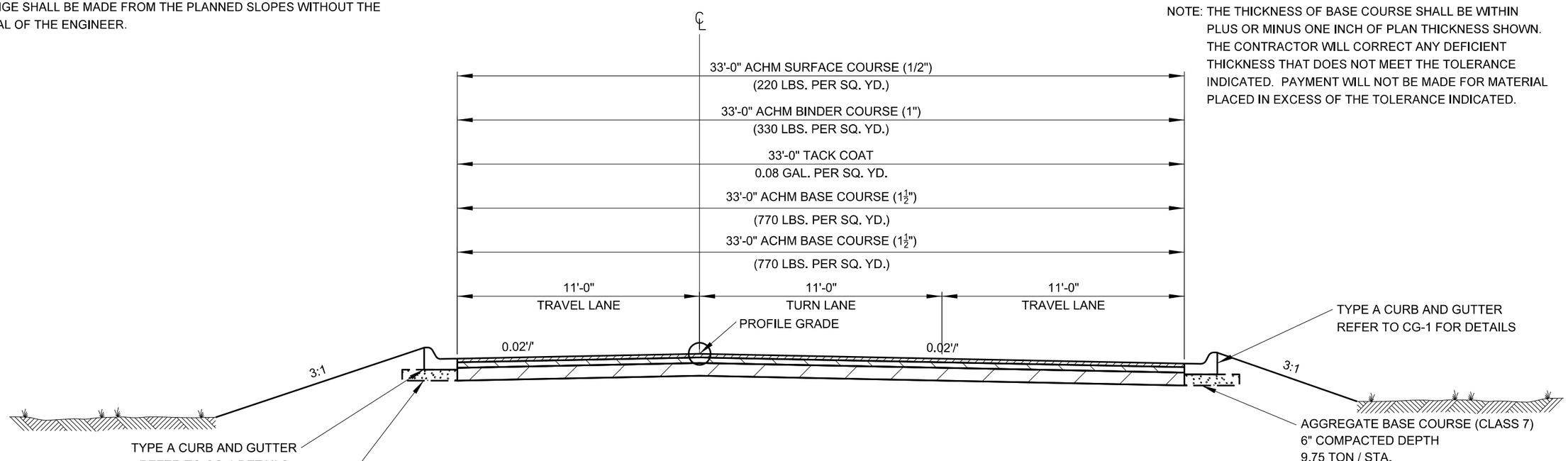

TYPCIAL SECTION

STA. 102+65.00 - STA. 108+80.64

TYPICAL SECTIONS OF IMPROVEMENT

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4 TYPICAL SECTIONS OF IMPROVEMENT

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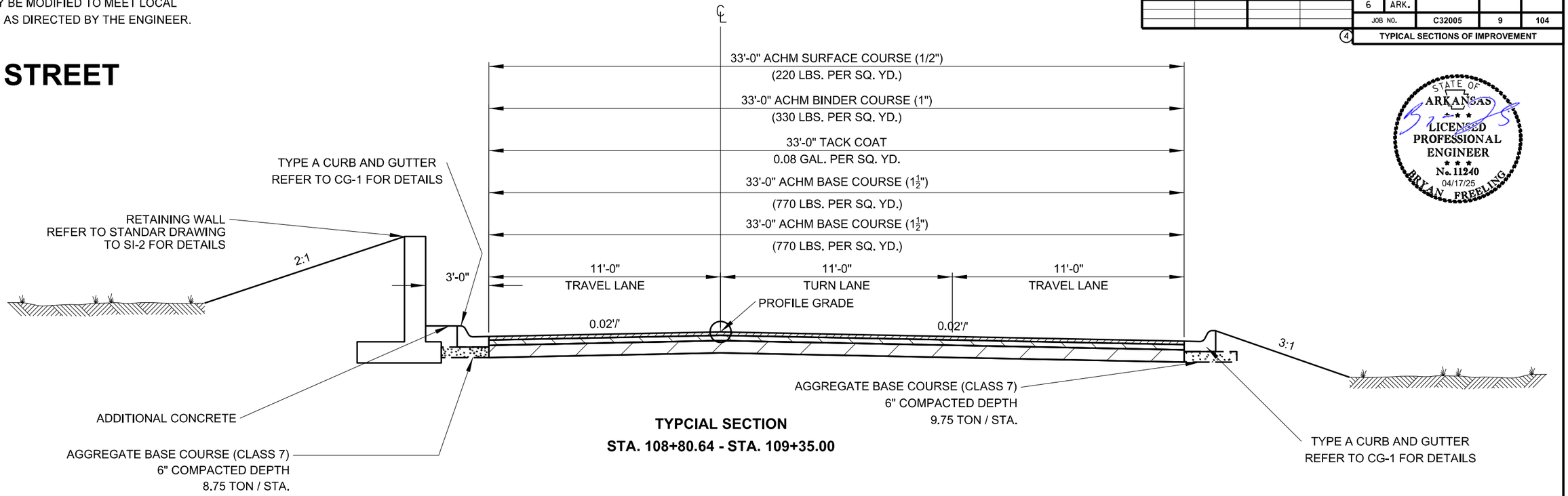
MYERS STREET

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING



TYPCIAL SECTION

STA. 108+80.64 - STA. 109+35.00

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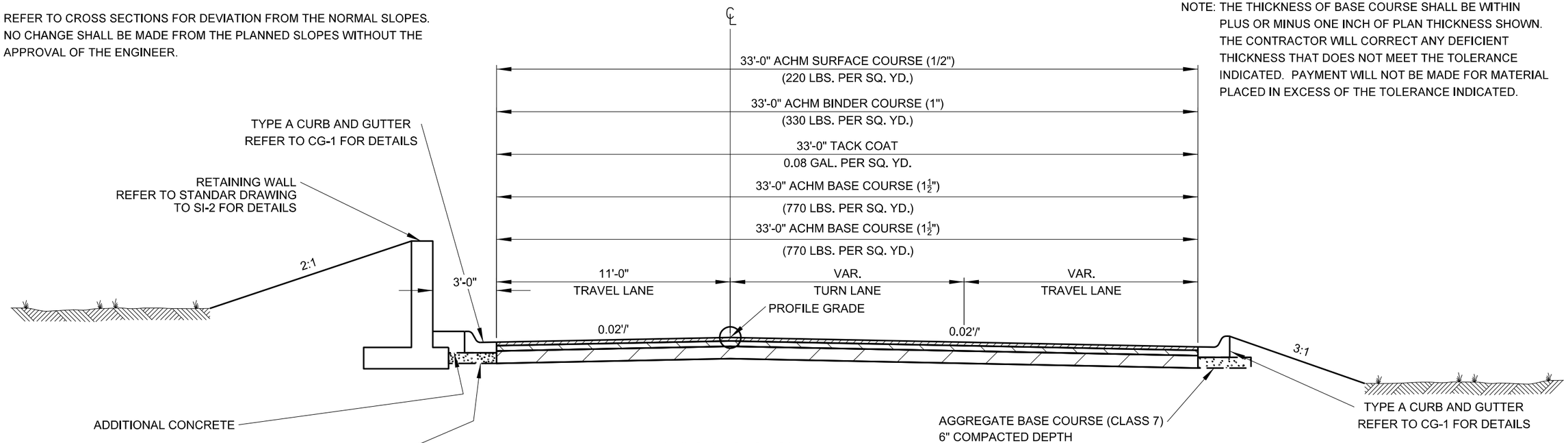

TYPCIAL SECTION

STA. 109+35.00 - STA. 110+65.00

TYPICAL SECTIONS OF IMPROVEMENT

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MYERS STREET

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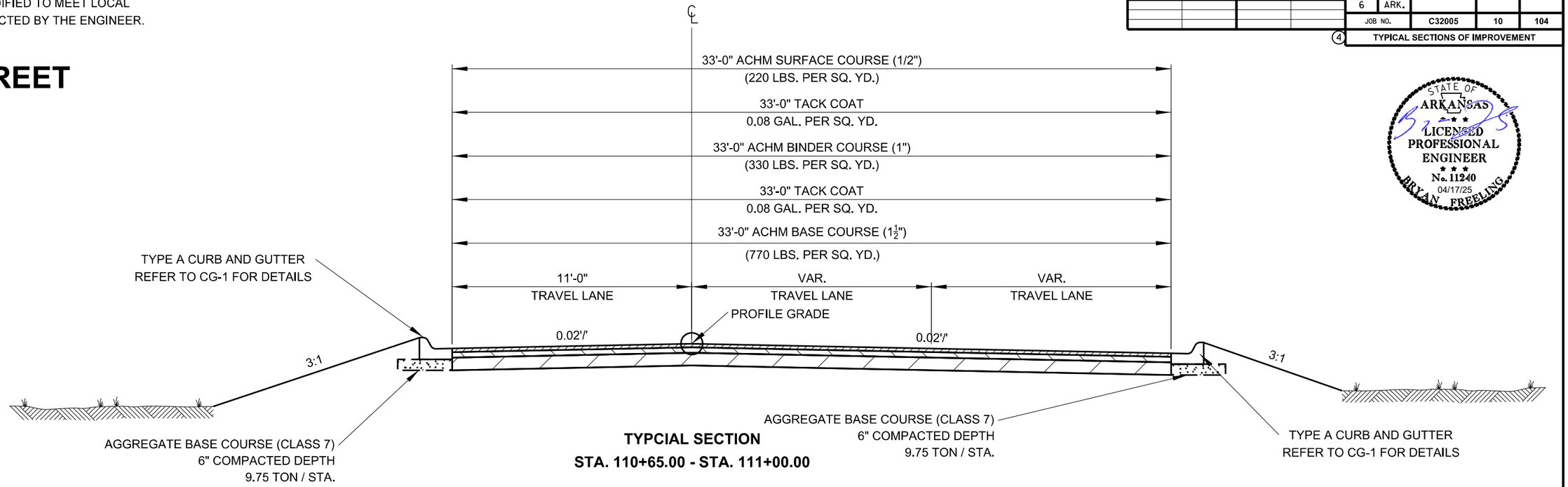
No. 11240
04/17/25
BRYAN FREELING

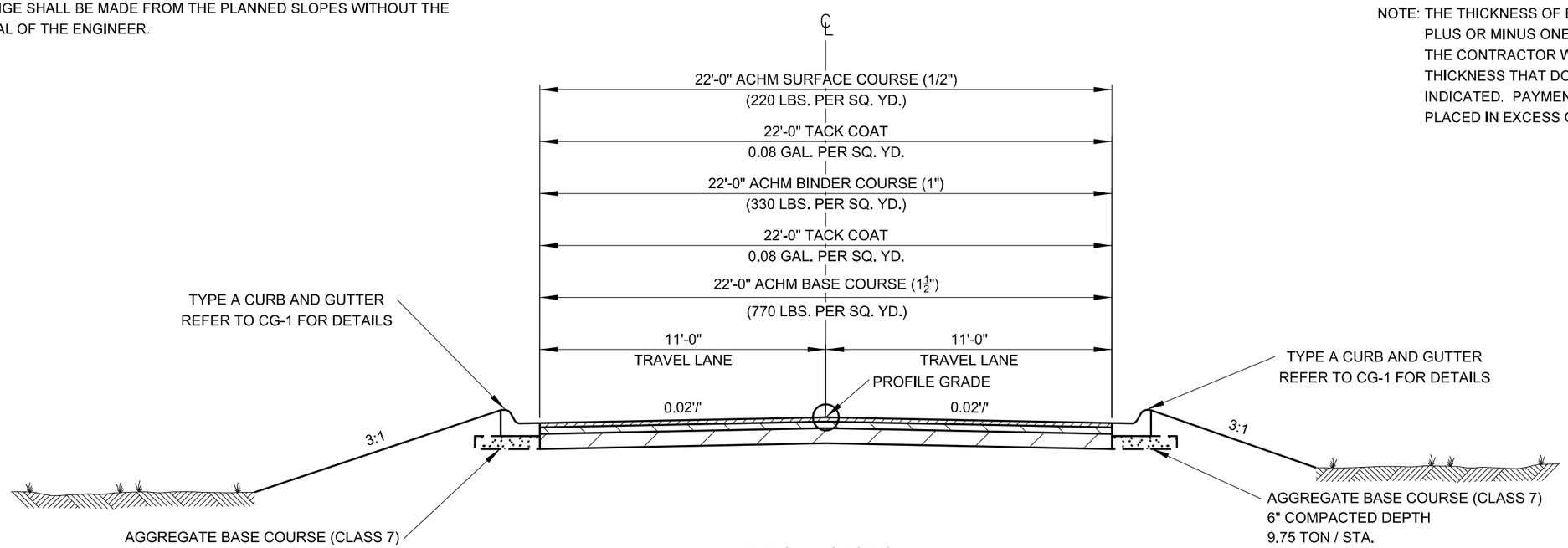


TYPCIAL SECTION

STA. 110+65.00 - STA. 111+00.00

NOTE: REFER TO CROSS SECTIONS FOR DEVIATION FROM THE NORMAL SLOPES. NO CHANGE SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.

NOTE: THE THICKNESS OF BASE COURSE SHALL BE WITHIN PLUS OR MINUS ONE INCH OF 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.



TYPCIAL SECTION

STA. 111+00.00 - STA. 111+40.00

TYPICAL SECTIONS OF IMPROVEMENT

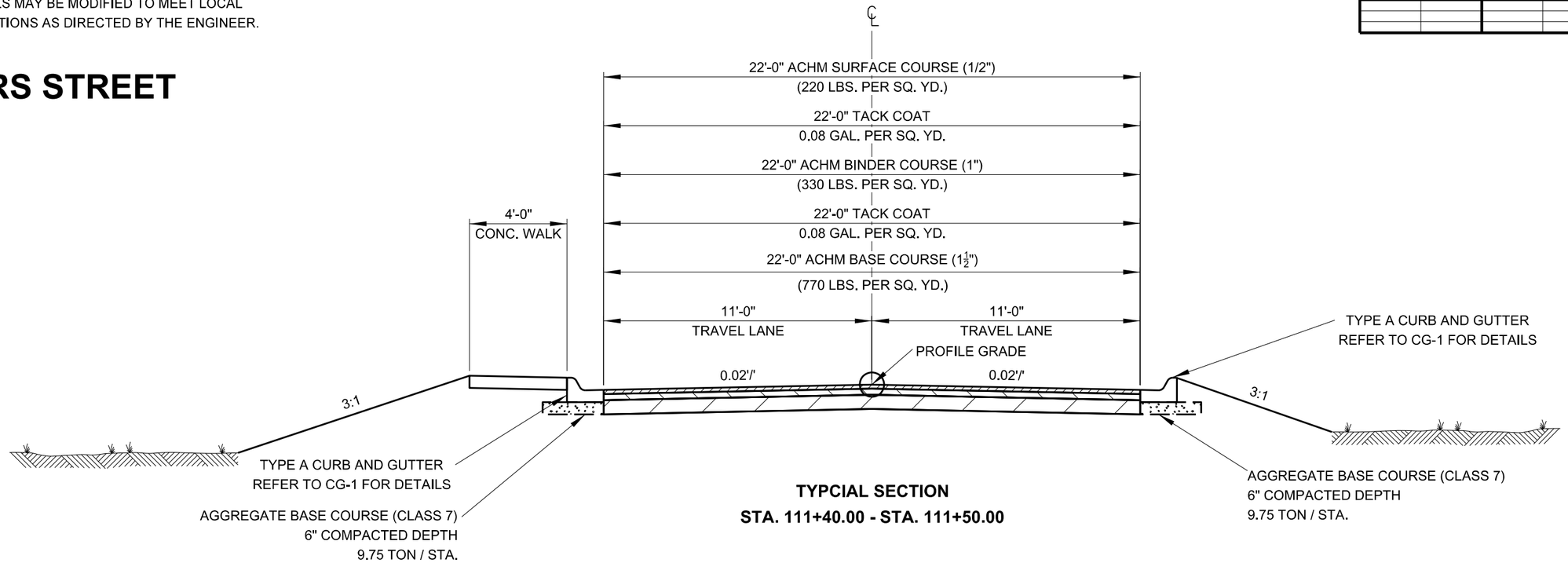
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	11	104

4 TYPICAL SECTIONS OF IMPROVEMENT

NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL CONDITIONS AS DIRECTED BY THE ENGINEER.

MYERS STREET

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING



TYPCIAL SECTION

STA. 111+40.00 - STA. 111+50.00

NOTE: REFER TO CROSS SECTIONS FOR DEVIATION FROM THE NORMAL SLOPES. NO CHANGE SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.

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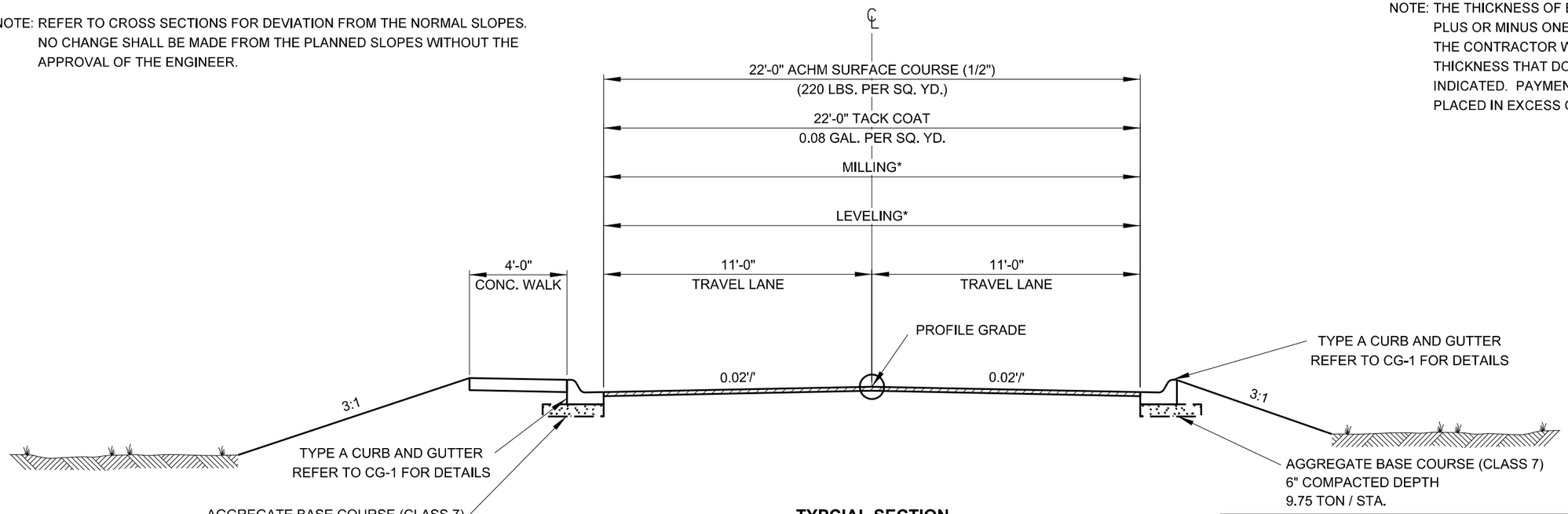


TYPCIAL SECTION

STA. 111+50.00 - STA. 113+37.00

TYPICAL SECTIONS OF IMPROVEMENT

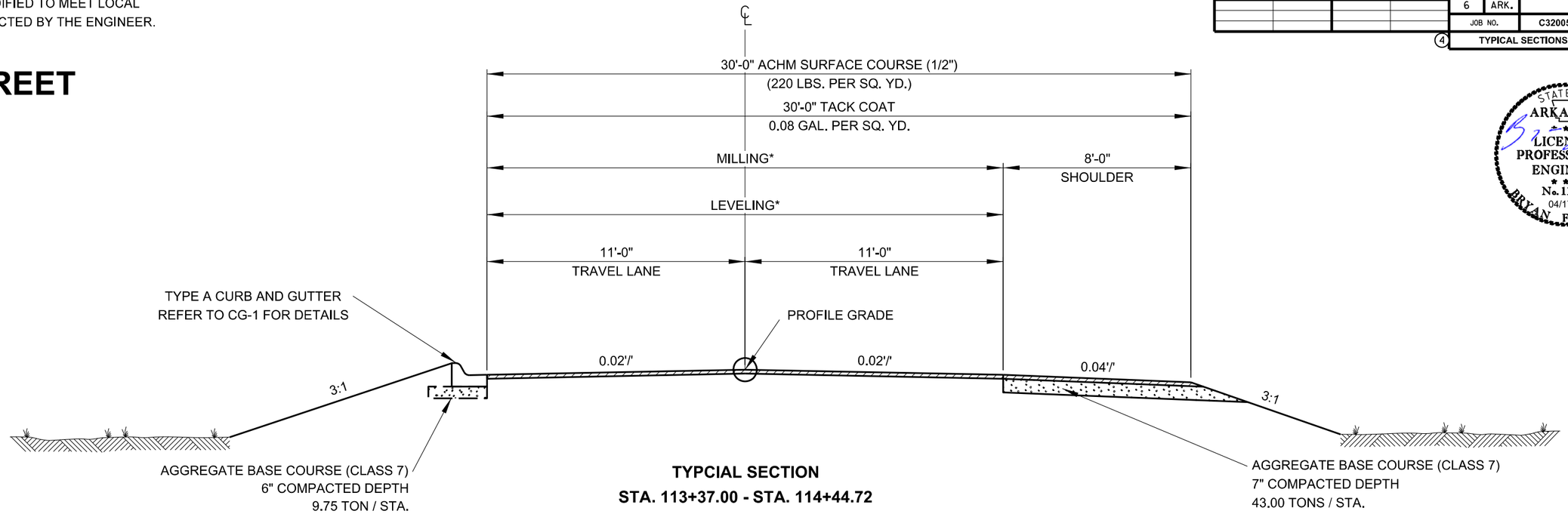
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	12	104

4 TYPICAL SECTIONS OF IMPROVEMENT

NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL CONDITIONS AS DIRECTED BY THE ENGINEER.

MYERS STREET

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 11240 04/17/25 BRYAN FREELING



TYPCIAL SECTION

STA. 113+37.00 - STA. 114+44.72

NOTE: REFER TO CROSS SECTIONS FOR DEVIATION FROM THE NORMAL SLOPES. NO CHANGE SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.

*NOTE: LOCATION AND APPLICATION RATES ARE AT THE DIRECTION OF THE ENGINEER. SEE QUANTITY SHEET FOR ESTIMATED AMOUNTS.

NOTE: REFER TO SPECIAL DETAILS AND CROSS SECTIONS FOR WIDTHS, SLOPES, AND GRADES.

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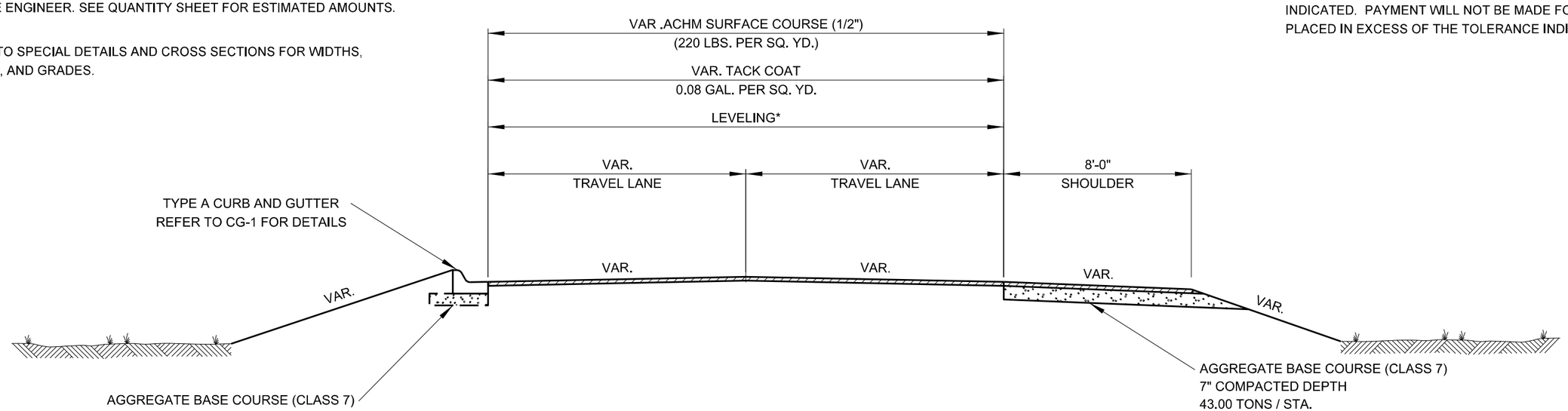


TYPCIAL SECTION

STA. 114+44.72 - STA. 115+46.88

TYPICAL SECTIONS OF IMPROVEMENT

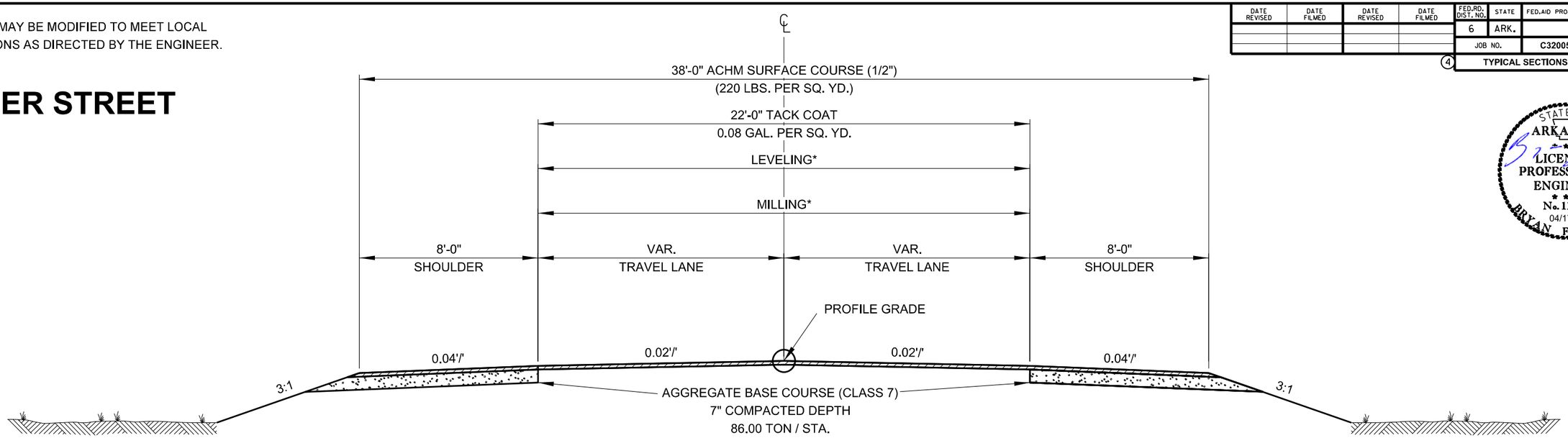
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	13	104

4 TYPICAL SECTIONS OF IMPROVEMENT

NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL CONDITIONS AS DIRECTED BY THE ENGINEER.

PIONEER STREET

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 11240 04/17/25 BRYAN FREELING



TYPCIAL SECTION

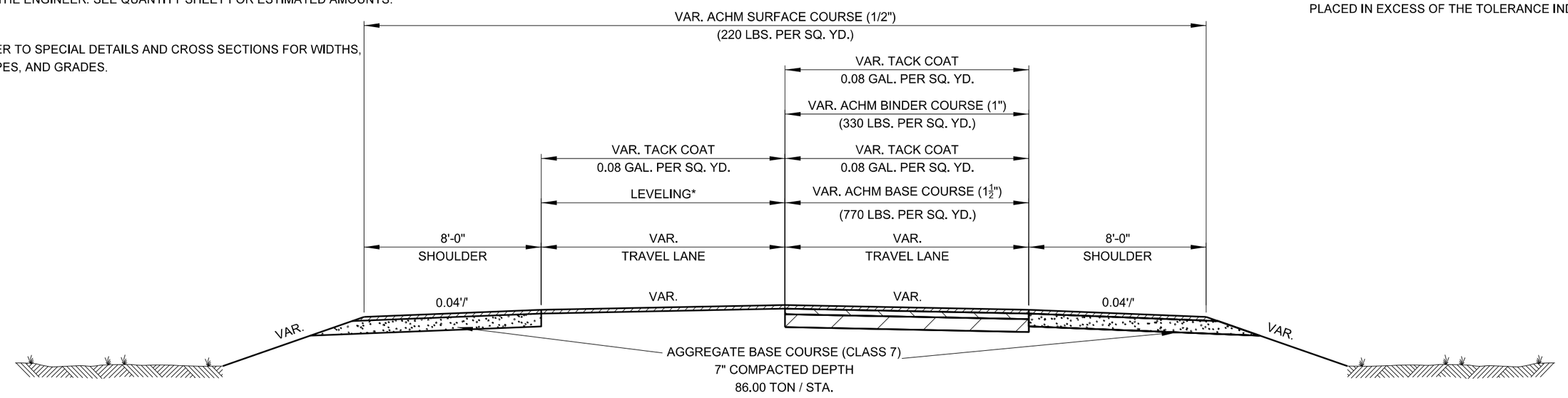
STA. 200+00.00 - STA. 200+69.14

NOTE: REFER TO CROSS SECTIONS FOR DEVIATION FROM THE NORMAL SLOPES. NO CHANGE SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.

*NOTE: LOCATION AND APPLICATION RATES ARE AT THE DIRECTION OF THE ENGINEER. SEE QUANTITY SHEET FOR ESTIMATED AMOUNTS.

NOTE: REFER TO SPECIAL DETAILS AND CROSS SECTIONS FOR WIDTHS, SLOPES, AND GRADES.

NOTE: THE THICKNESS OF BASE COURSE SHALL BE WITHIN PLUS OR MINUS ONE INCH OF 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.



TYPCIAL SECTION

STA. 200+69.14 - STA. 201+45.00

TYPICAL SECTIONS OF IMPROVEMENT

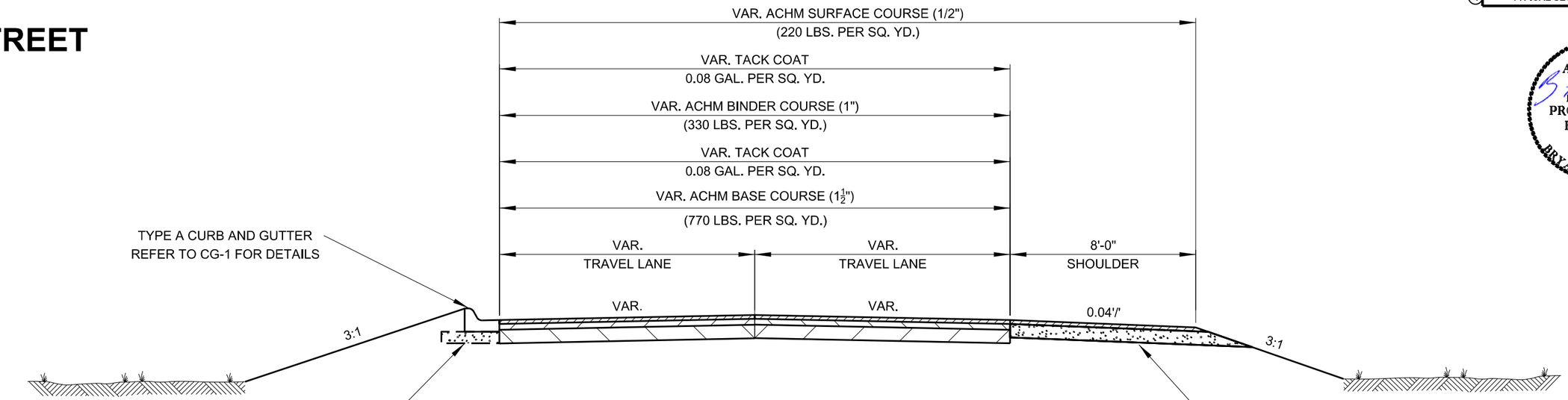
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	14	104

4 TYPICAL SECTIONS OF IMPROVEMENT

NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL CONDITIONS AS DIRECTED BY THE ENGINEER.

20TH STREET

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 11240 04/17/25 BRYAN FREELING



TYPCIAL SECTION

STA. 300+00.00 - STA. 301+50.00

NOTE: REFER TO CROSS SECTIONS FOR DEVIATION FROM THE NORMAL SLOPES. NO CHANGE SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.

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NOTE: REFER TO SPECIAL DETAILS AND CROSS SECTIONS FOR LANE WIDTHS, SLOPES, AND GRADES.

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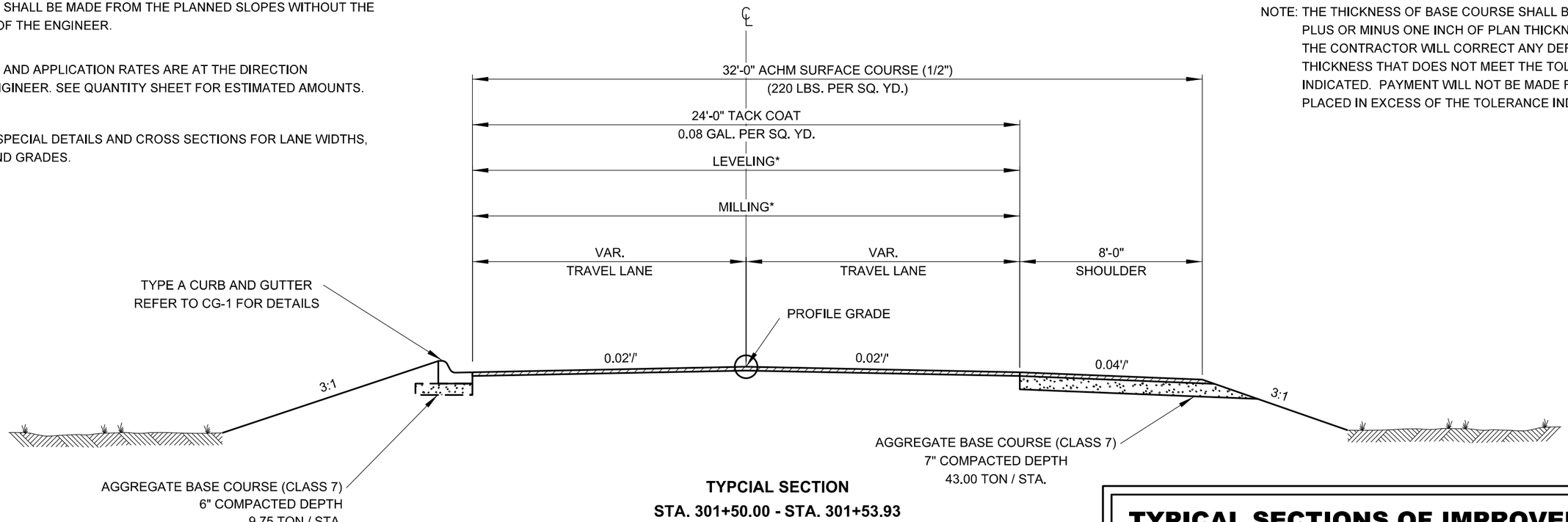


TYPCIAL SECTION

STA. 301+50.00 - STA. 301+53.93

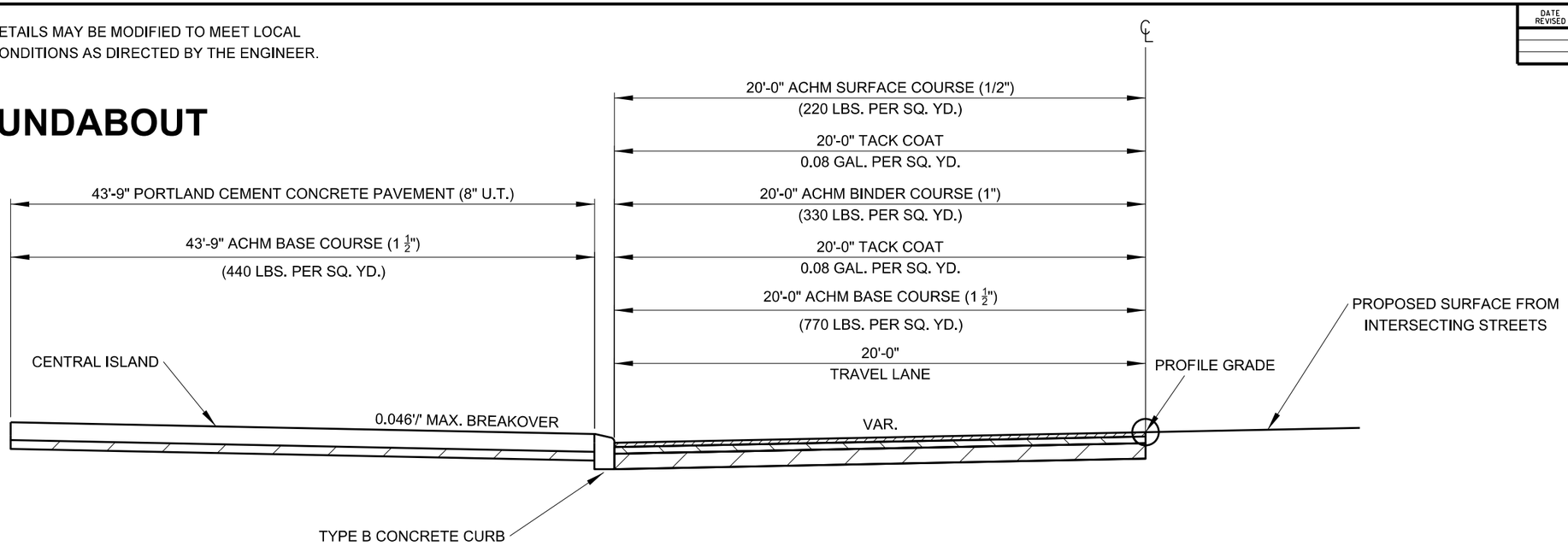
TYPICAL SECTIONS OF IMPROVEMENT

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	15	104

4 TYPICAL SECTIONS OF IMPROVEMENT

NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL CONDITIONS AS DIRECTED BY THE ENGINEER.

ROUNDABOUT



TYPCIAL SECTION

STA. 400+00.00 - STA. 401+50.00

NOTE: REFER TO CROSS SECTIONS FOR DEVIATION FROM THE NORMAL SLOPES. NO CHANGE SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.

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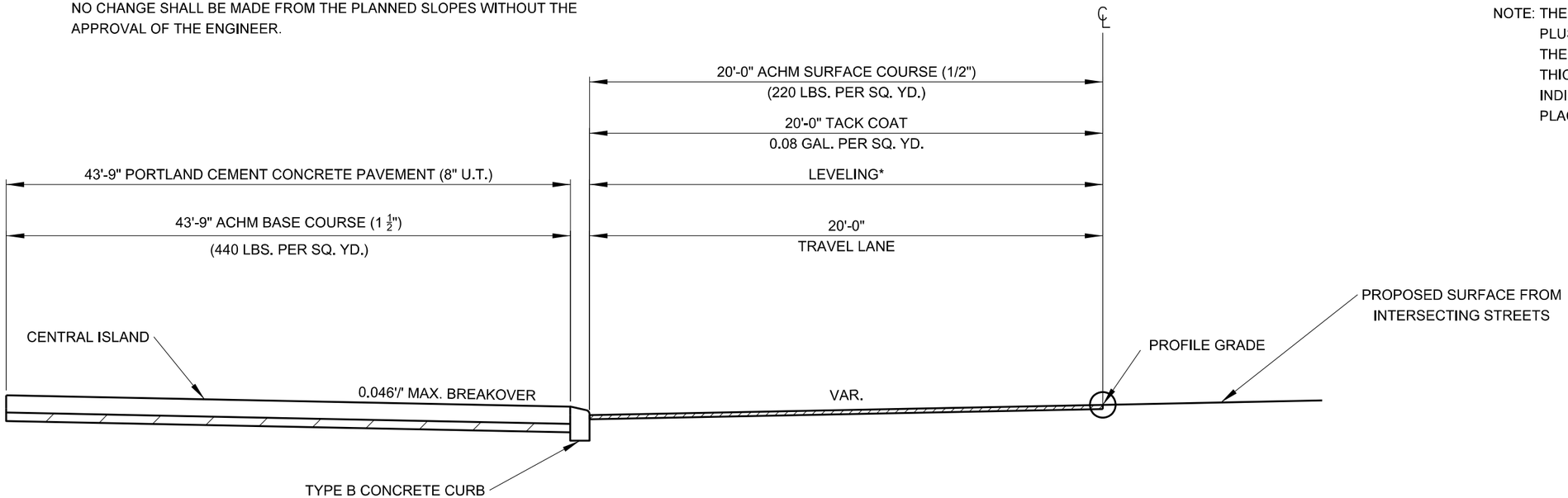


TYPCIAL SECTION

STA. 401+50.00 - STA. 401+80.00

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING

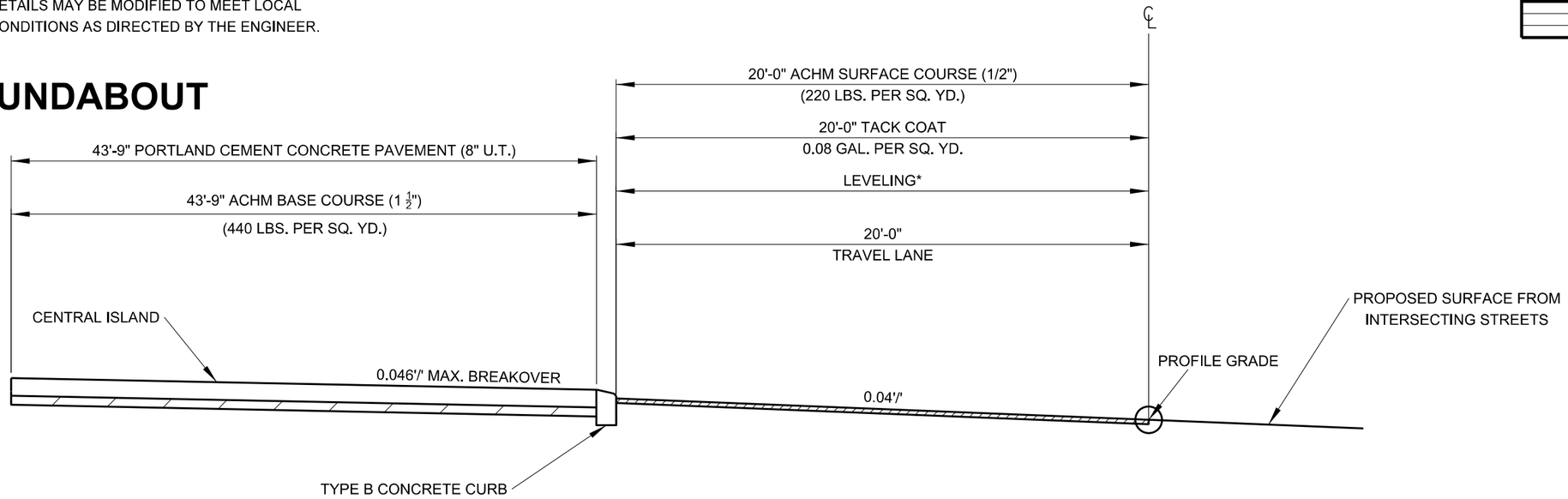
TYPICAL SECTIONS OF IMPROVEMENT

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	16	104

4 TYPICAL SECTIONS OF IMPROVEMENT

NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL CONDITIONS AS DIRECTED BY THE ENGINEER.

ROUNDABOUT



TYPCIAL SECTION

STA. 401+80.00 - STA. 403+15.00

NOTE: REFER TO CROSS SECTIONS FOR DEVIATION FROM THE NORMAL SLOPES. NO CHANGE SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.

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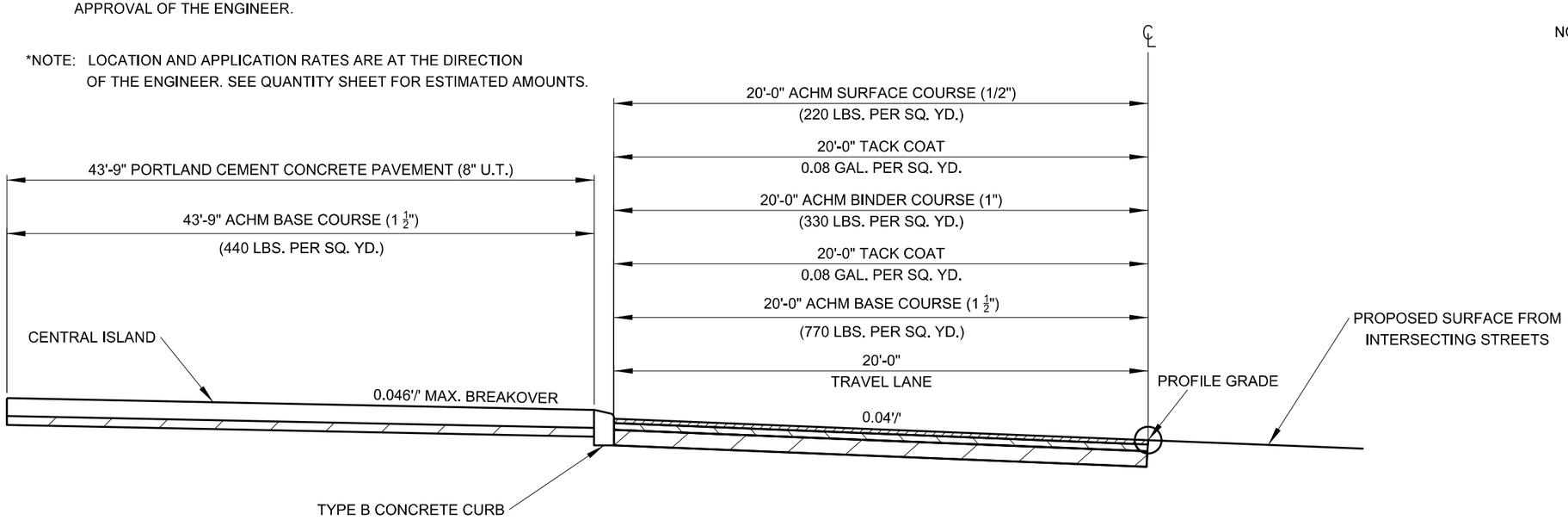


TYPCIAL SECTION

STA. 403+15.00 - STA. 404+05.27

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING

TYPICAL SECTIONS OF IMPROVEMENT

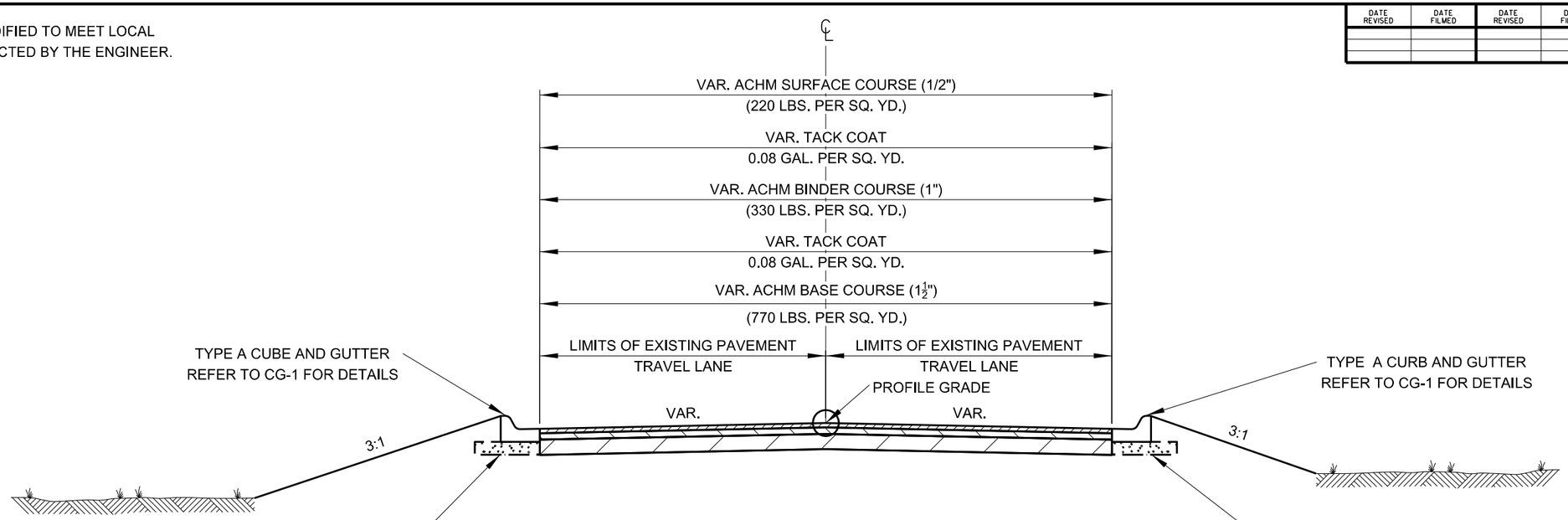
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	17	104

4 TYPICAL SECTIONS OF IMPROVEMENT

NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL CONDITIONS AS DIRECTED BY THE ENGINEER.

SIDNEY

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 11240 04/17/25 BRYAN FREELING



TYPCIAL SECTION

STA. 500+00.00 - STA. 500+49.00

NOTE: REFER TO CROSS SECTIONS FOR DEVIATION FROM THE NORMAL SLOPES. NO CHANGE SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.

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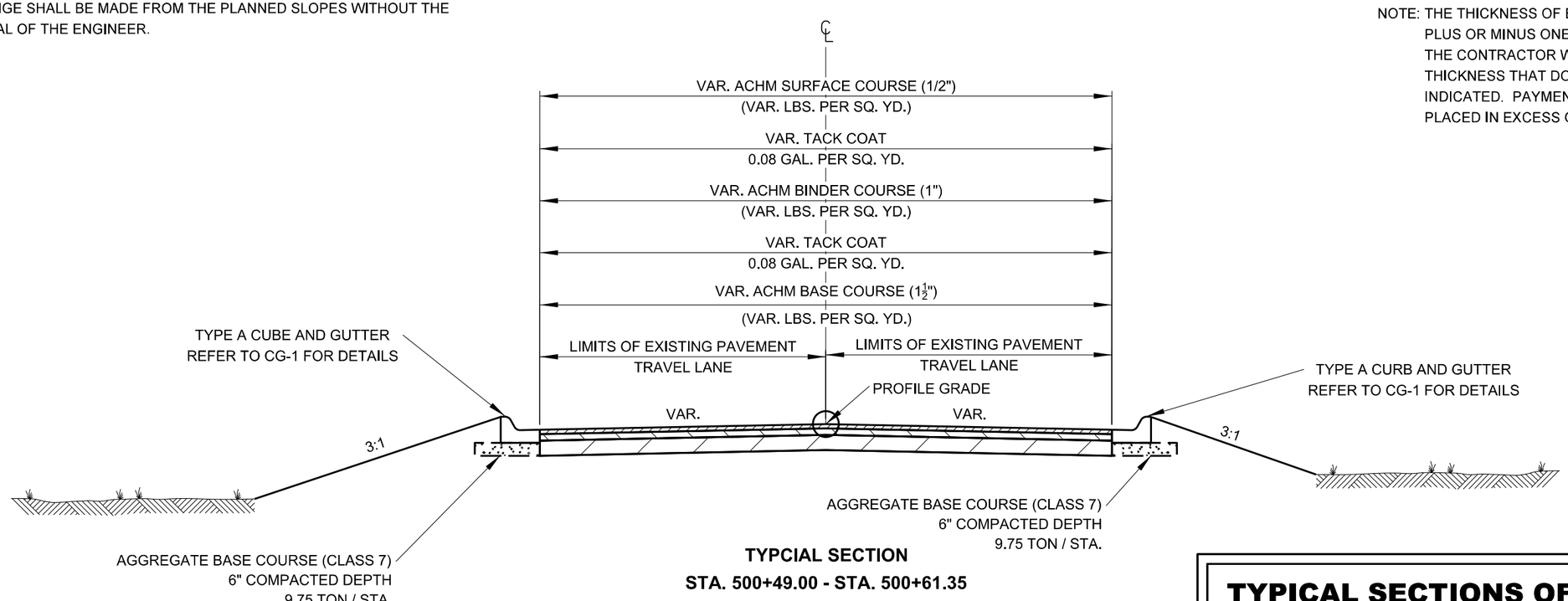


TYPCIAL SECTION

STA. 500+49.00 - STA. 500+61.35

TYPICAL SECTIONS OF IMPROVEMENT

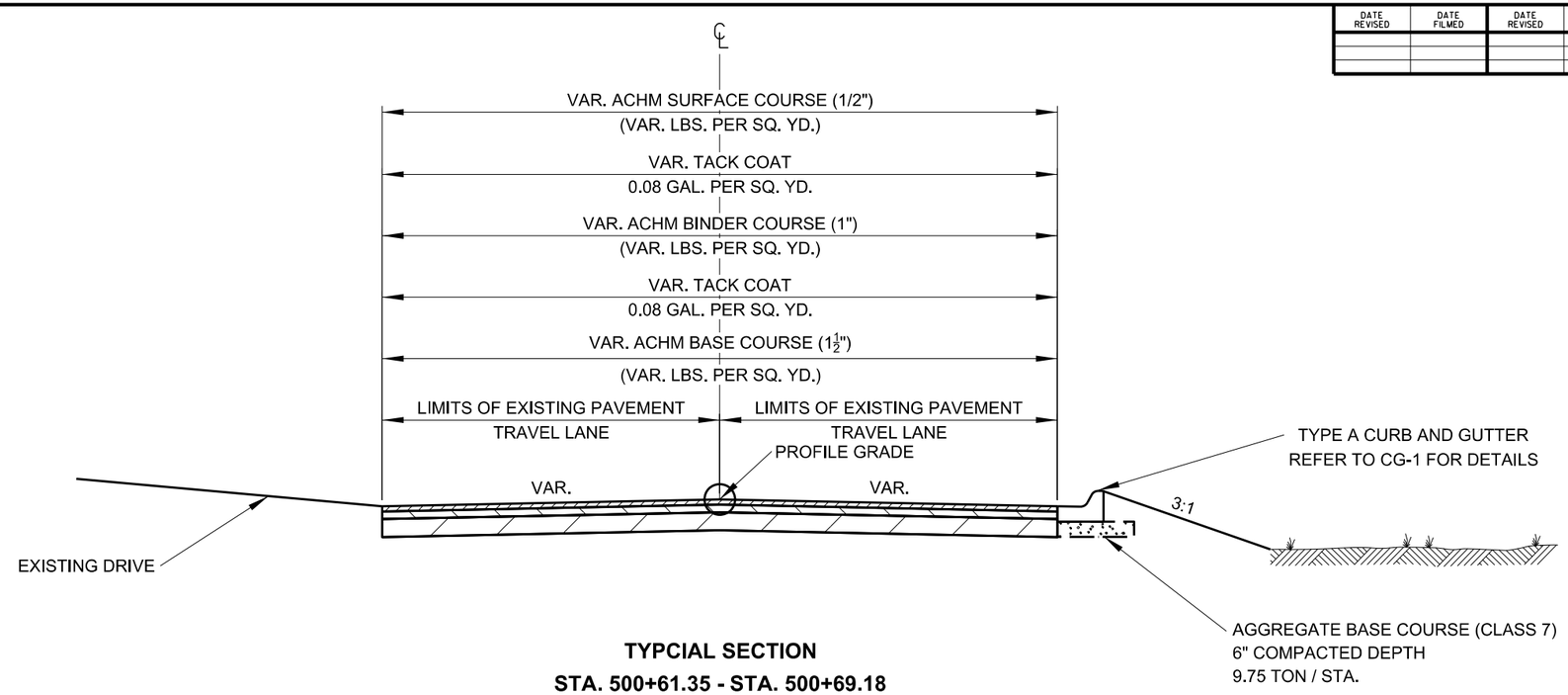
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	18	104

4 TYPICAL SECTIONS OF IMPROVEMENT

NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL CONDITIONS AS DIRECTED BY THE ENGINEER.

SIDNEY

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING



TYPCIAL SECTION

STA. 500+61.35 - STA. 500+69.18

NOTE: REFER TO CROSS SECTIONS FOR DEVIATION FROM THE NORMAL SLOPES. NO CHANGE SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.

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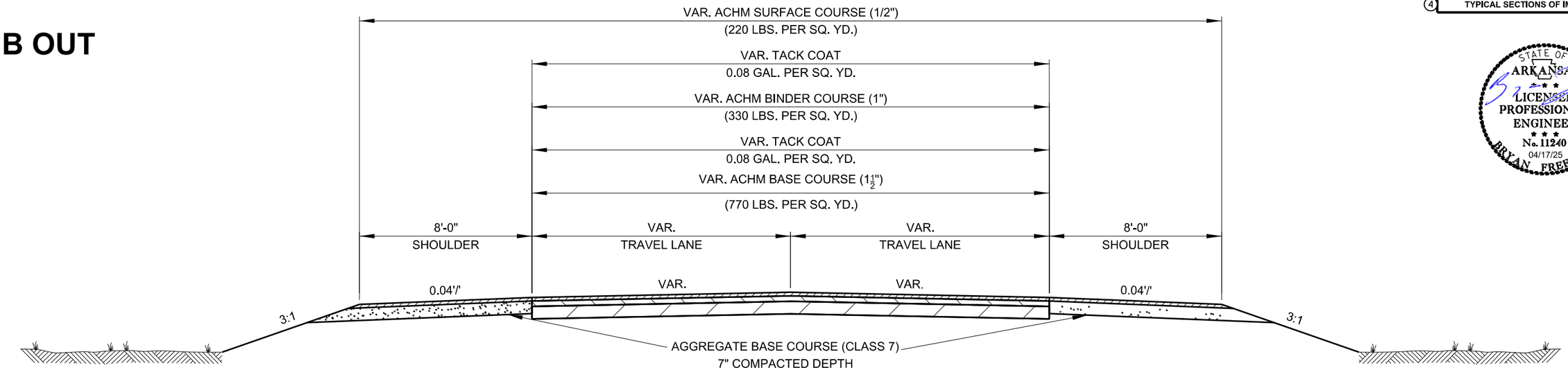
TYPICAL SECTIONS OF IMPROVEMENT

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	19	104

4 TYPICAL SECTIONS OF IMPROVEMENT

NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL CONDITIONS AS DIRECTED BY THE ENGINEER.

STUB OUT



TYPCIAL SECTION

STA. 600+00.00 - STA. 601+15.00

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING

NOTE: REFER TO CROSS SECTIONS FOR DEVIATION FROM THE NORMAL SLOPES. NO CHANGE SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.

*NOTE: LOCATION AND APPLICATION RATES ARE AT THE DIRECTION OF THE ENGINEER. SEE QUANTITY SHEET FOR ESTIMATED AMOUNTS.

NOTE: REFER TO SPECIAL DETAILS AND CROSS SECTIONS FOR WIDTHS, SLOPES, AND GRADES.

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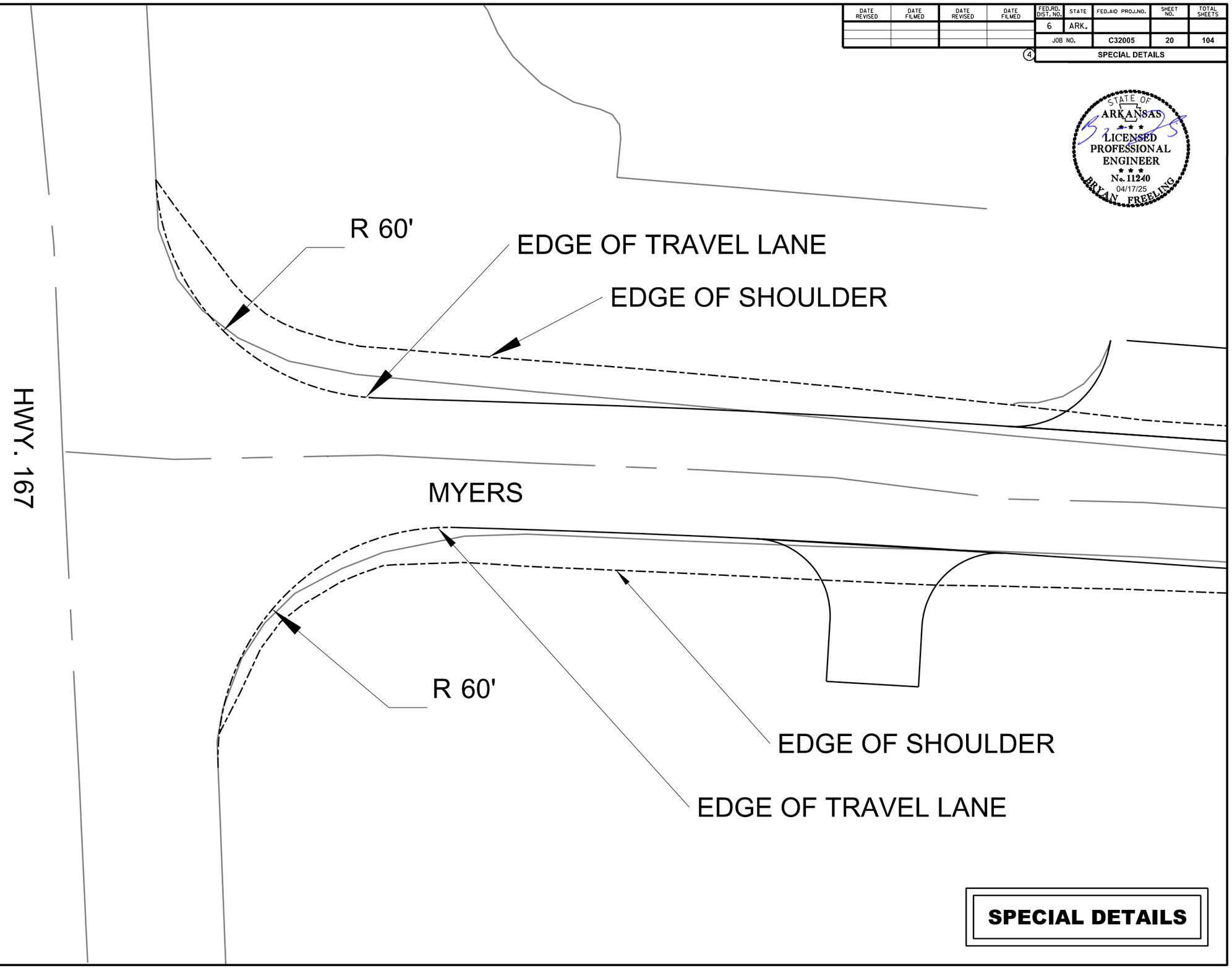
TYPICAL SECTIONS OF IMPROVEMENT

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	20	104

4 SPECIAL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING

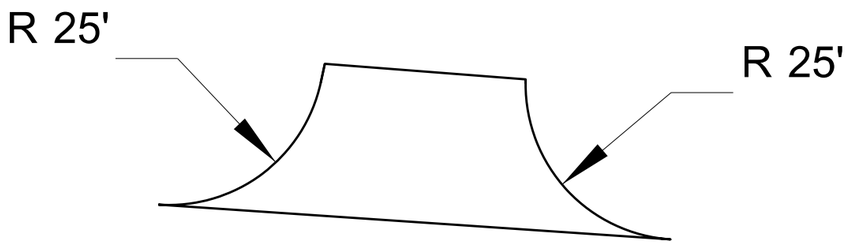


SPECIAL DETAILS

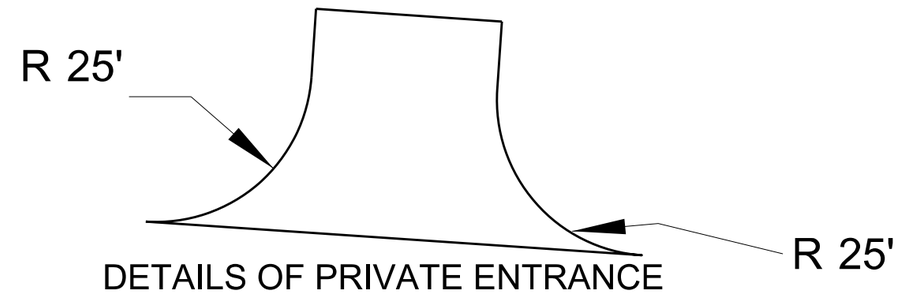
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	21	104

4 SPECIAL DETAILS

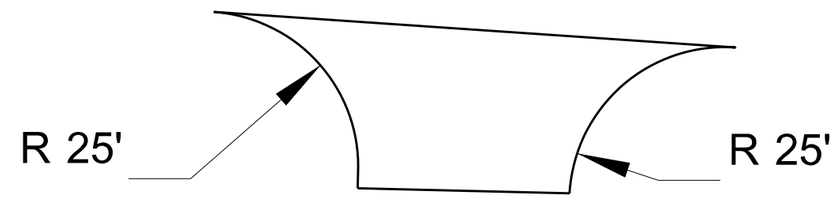
STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 11240 04/17/25 BRYAN FREELING



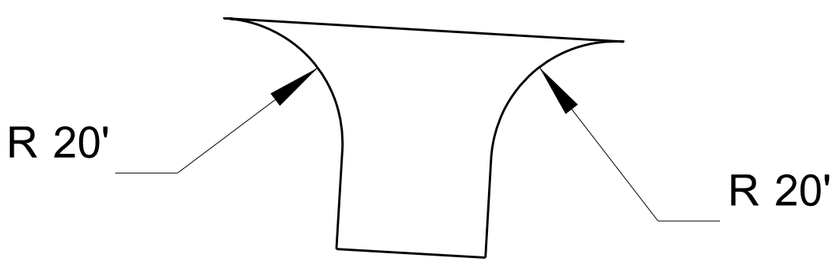
DETAILS OF PRIVATE ENTRANCE
AT STATION 94+02
ADDITIONAL SURFACING AREA = 117.62 SQ. YD.



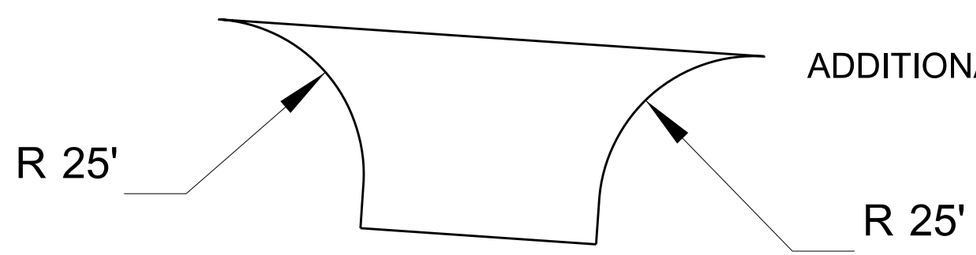
DETAILS OF PRIVATE ENTRANCE
AT STATION 94+86
ADDITIONAL SURFACING AREA = 149.81 SQ. YD.



DETAILS OF PRIVATE ENTRANCE
AT STATION 96+10
ADDITIONAL SURFACING AREA = 128.03 SQ. YD.



DETAILS OF PRIVATE ENTRANCE
AT STATION 93+29
ADDITIONAL SURFACING AREA = 115.07 SQ. YD.



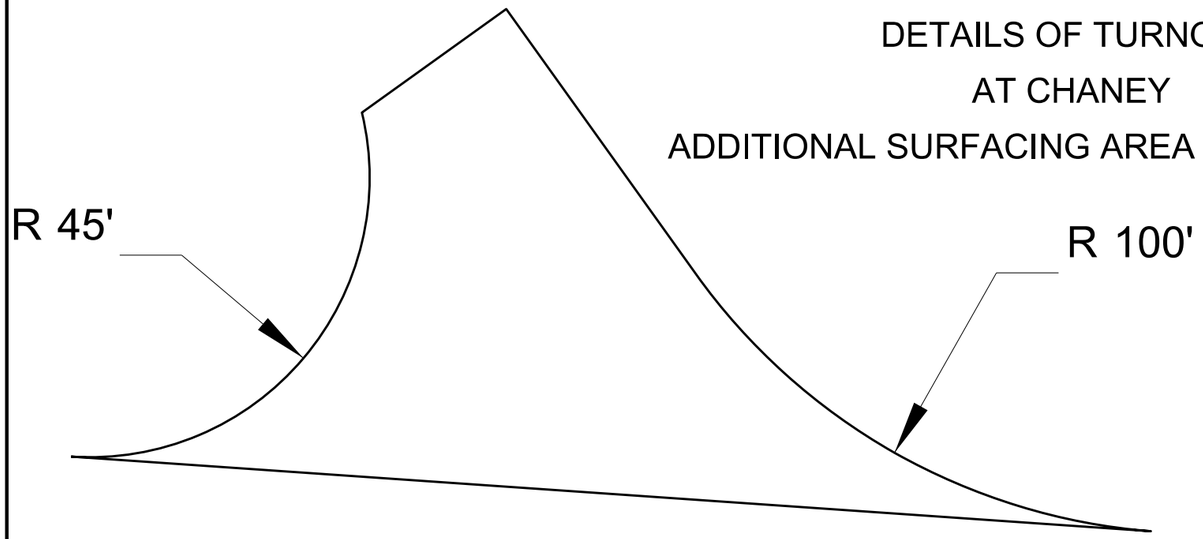
DETAILS OF PRIVATE ENTRANCE
AT STATION 94+84
ADDITIONAL SURFACING AREA = 164.92 SQ. YD.

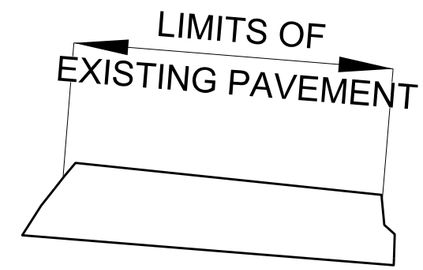
SPECIAL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	22	104

4 SPECIAL DETAILS

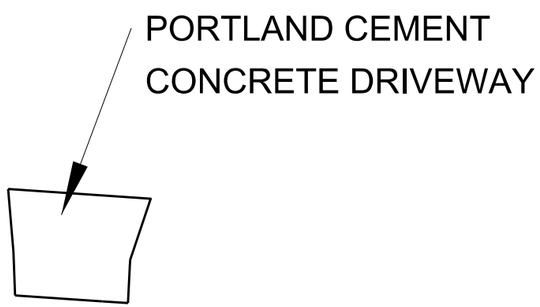
DETAILS OF TURNOUT
AT CHANEY
ADDITIONAL SURFACING AREA = 496.98 SQ. YD.



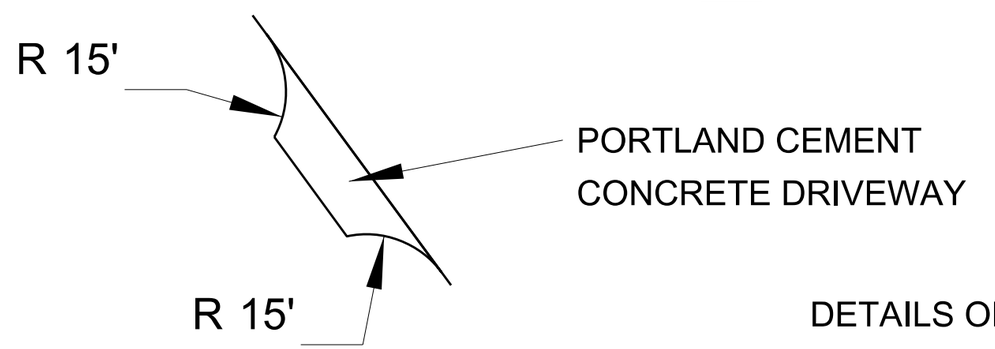


DETAILS OF PRIVATE ENTRANCE
AT STATION 99+55
ADDITIONAL SURFACING AREA = 71.94 SQ. YD.

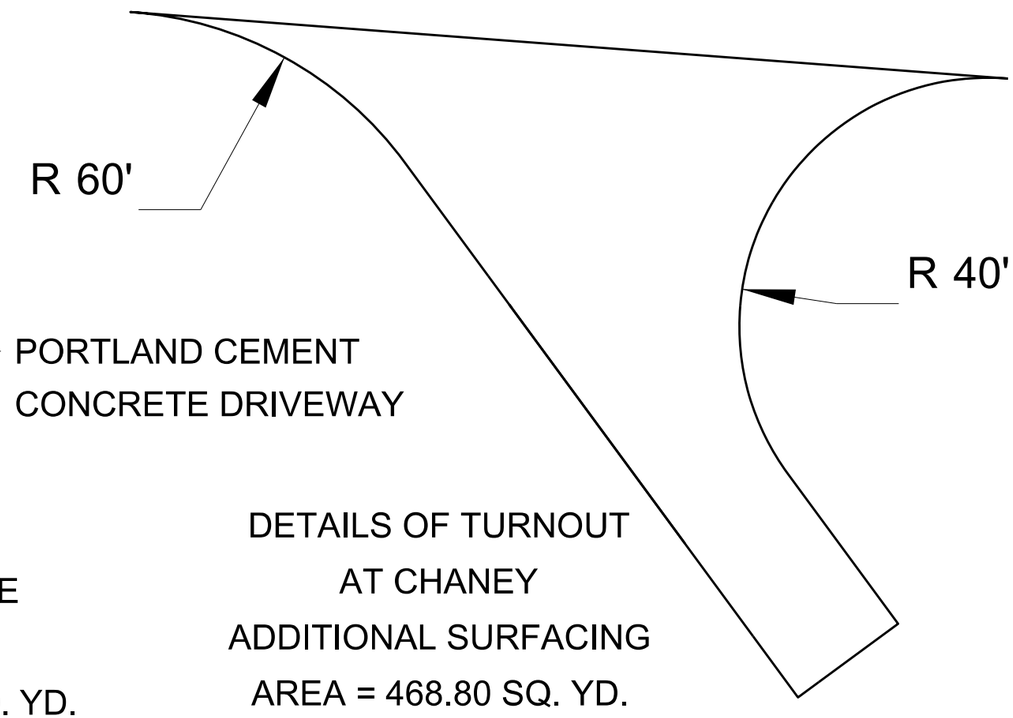
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING



DETAILS OF PRIVATE ENTRANCE
AT STATION 97+71
MATCH EXISTING LIMITS
ADDITIONAL CONCRETE = 37.65 SQ. YD.



DETAILS OF PRIVATE ENTRANCE
AT STATION 99+20
ADDITIONAL CONCRETE = 26.93 SQ. YD.



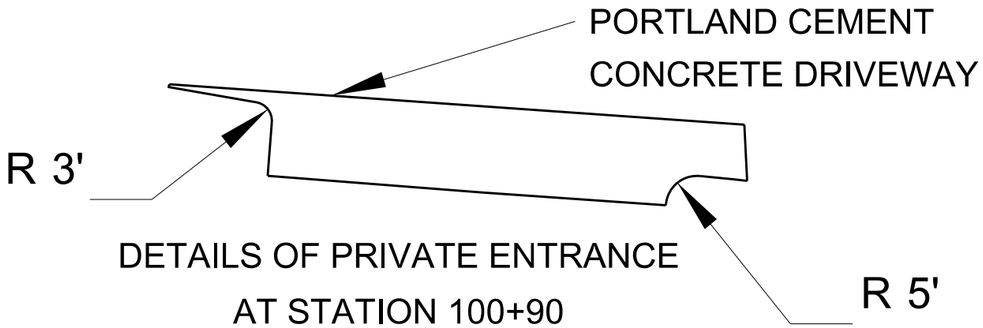
DETAILS OF TURNOUT
AT CHANEY
ADDITIONAL SURFACING
AREA = 468.80 SQ. YD.

SPECIAL DETAILS

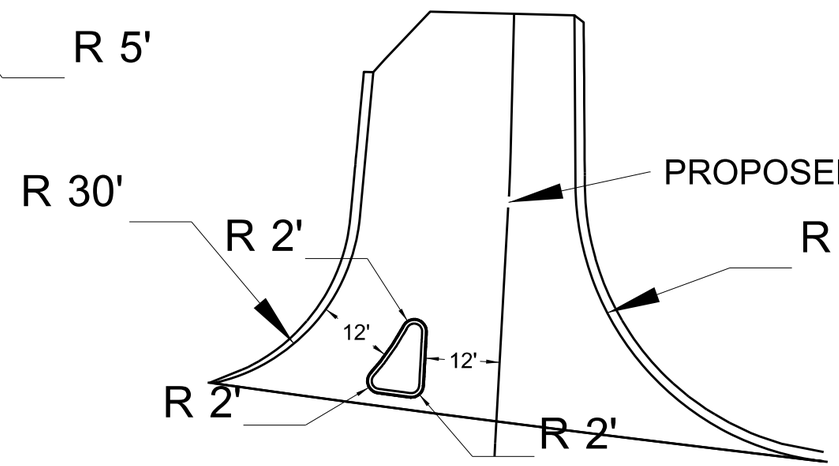
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	23	104

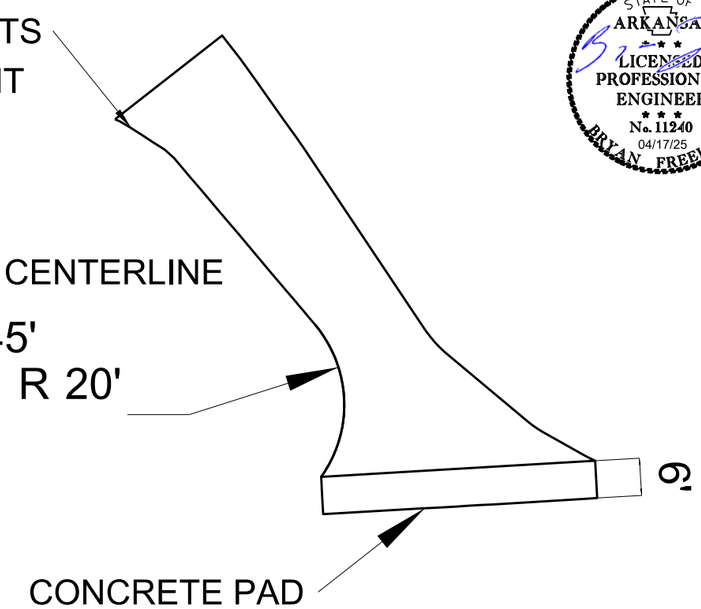
4 SPECIAL DETAILS

DETAILS OF TURNOUT AT SIDNEY



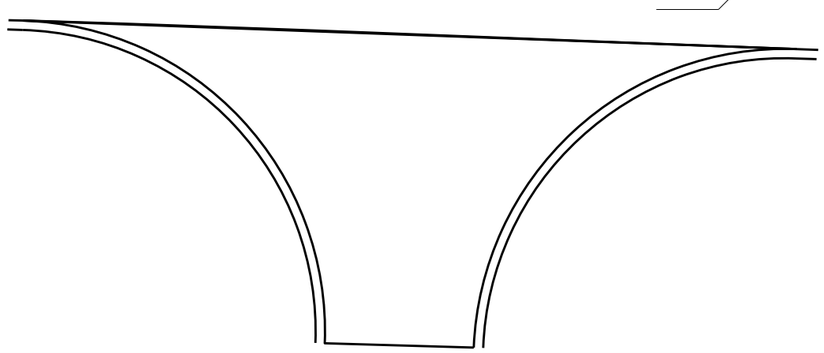
DETAILS OF PRIVATE ENTRANCE
AT STATION 100+90
ADDITIONAL CONCRETE = 113.4 SQ. YD.



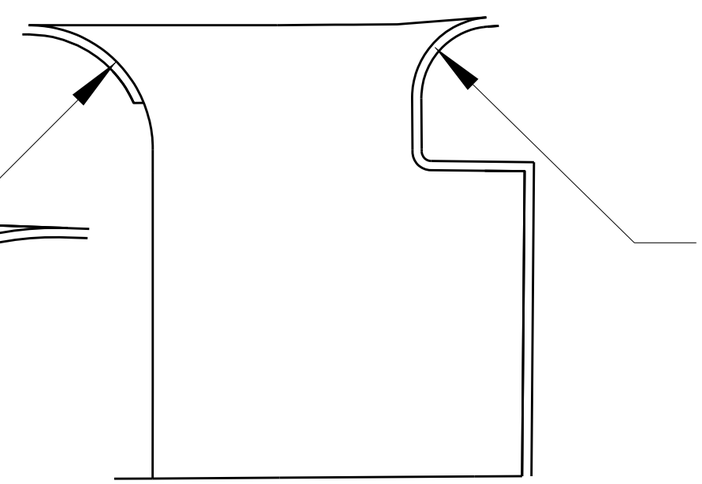


DETAILS OF PRIVATE ENTRANCE
AT STATION 111+09
ADDITIONAL SURFACING AREA = 163.94 SQ. YD.

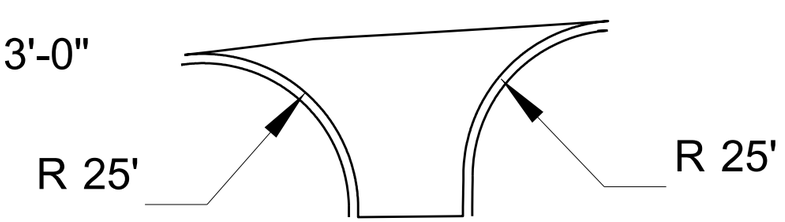
DETAILS OF PRIVATE ENTRANCE
AT STATION 105+37
ADDITIONAL SURFACING AREA = 252.54 SQ. YD.



DETAILS OF PRIVATE ENTRANCE
AT STATION 109+16
ADDITIONAL SURFACING AREA = 449.01 SQ. YD.



DETAILS OF PRIVATE ENTRANCE
AT STATION 111+14
ADDITIONAL SURFACING AREA = 87.66 SQ. YD.



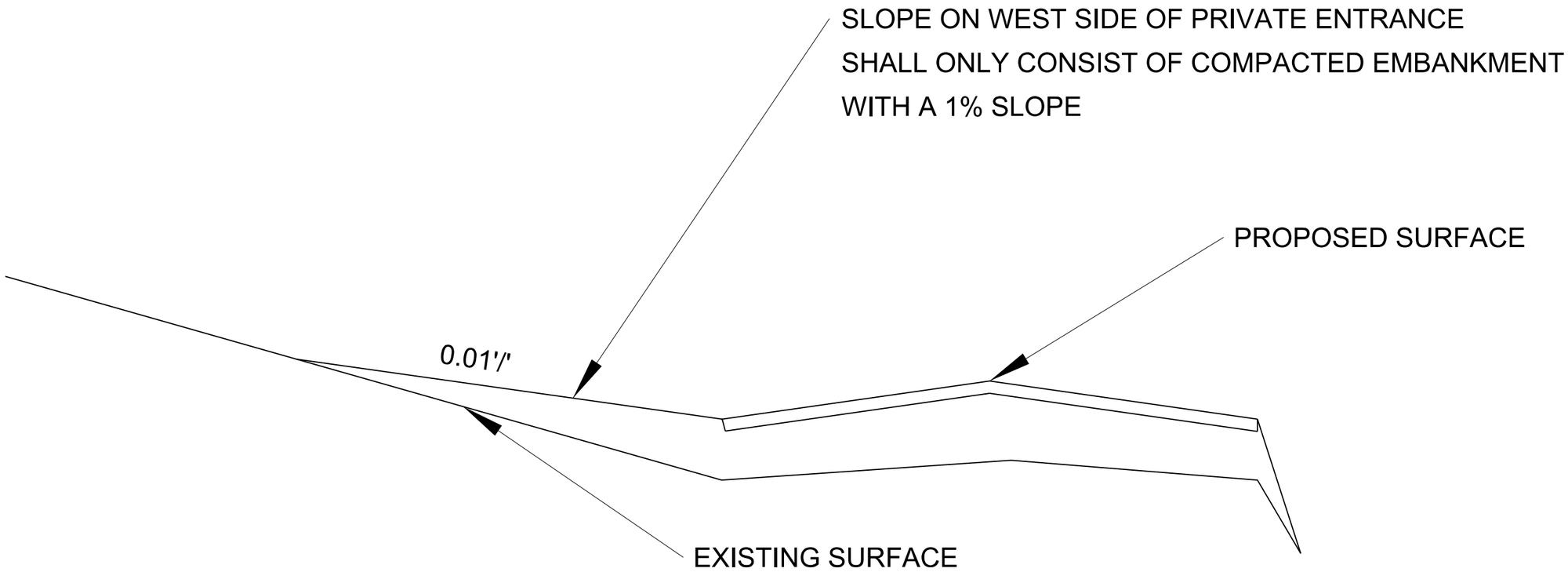
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING

SPECIAL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	24	104

4 SPECIAL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING



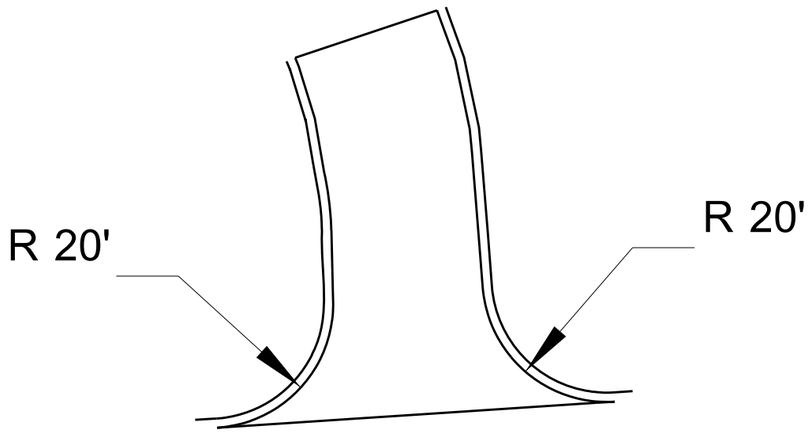
DETAILS OF PRIVATE ENTRANCE
AT STATION 111+09

SPECIAL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	25	104

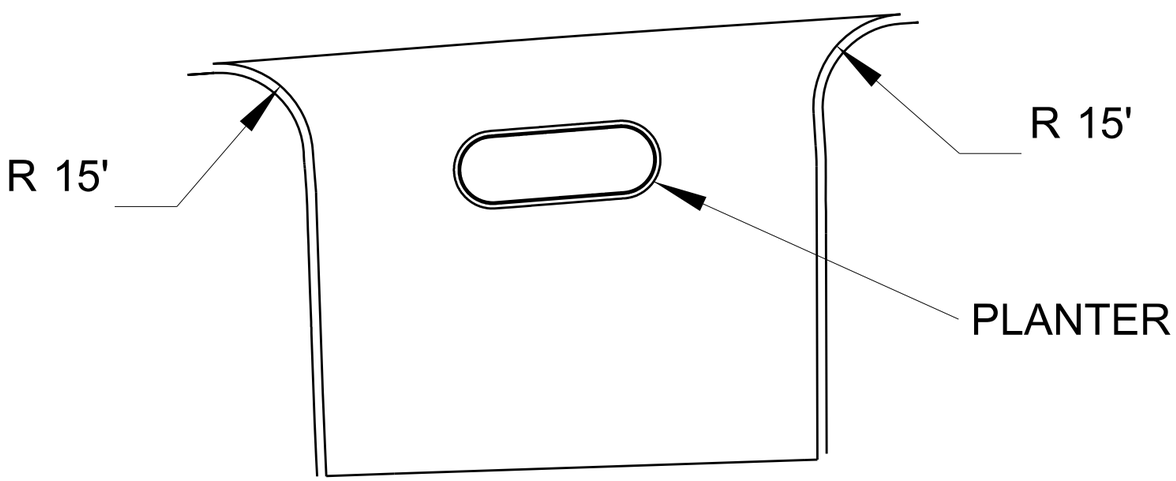
4 SPECIAL DETAILS

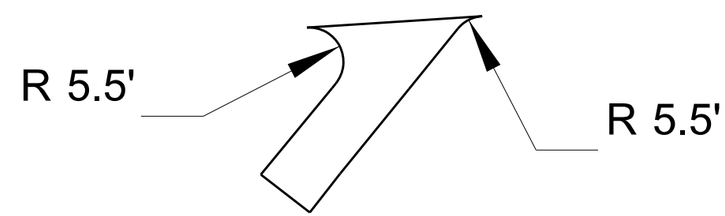
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING



DETAILS OF PRIVATE ENTRANCE
AT STATION 114+17
ADDITIONAL SURFACING AREA = 184.64 SQ. YD.

DETAILS OF PRIVATE ENTRANCES
AT STATION 111+93 AND 112+51
ADDITIONAL SURFACING AREA = 585.36 SQ. YD.





DETAILS OF PRIVATE ENTRANCE
AT STATION 113+27
ADDITIONAL SURFACING AREA = 42.87 SQ. YD.

SPECIAL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	26	104

4 SPECIAL DETAILS

STATE OF ARKANSAS
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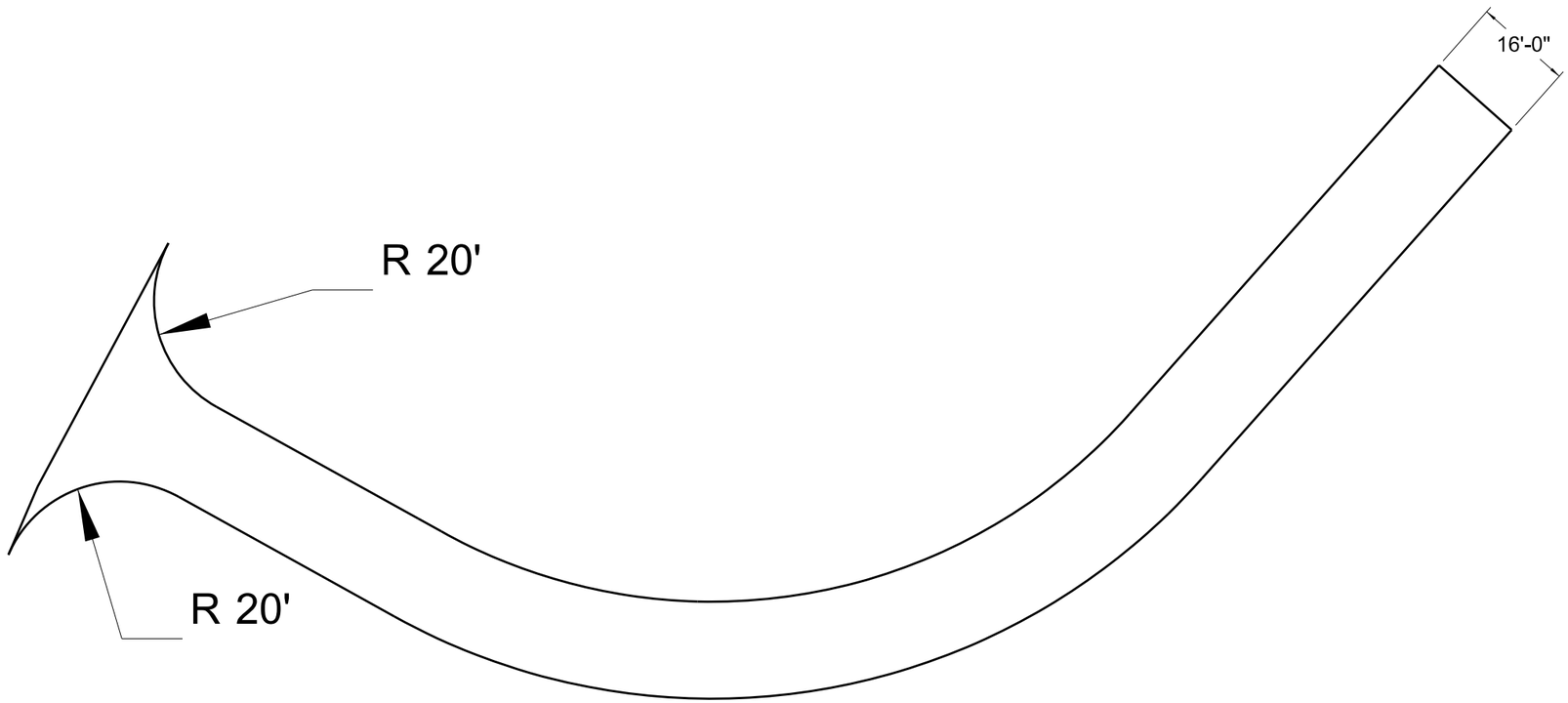
No. 11240
04/17/25
BRYAN FREELING



DETAILS OF PRIVATE ENTRANCE AT STATION 301+72

CONSTRUCT NEW APPROACH TIE INTO EXISTING PRIVATE DRIVE

ADDITIONAL SURFACING AREA = 507.84 SQ. YD.

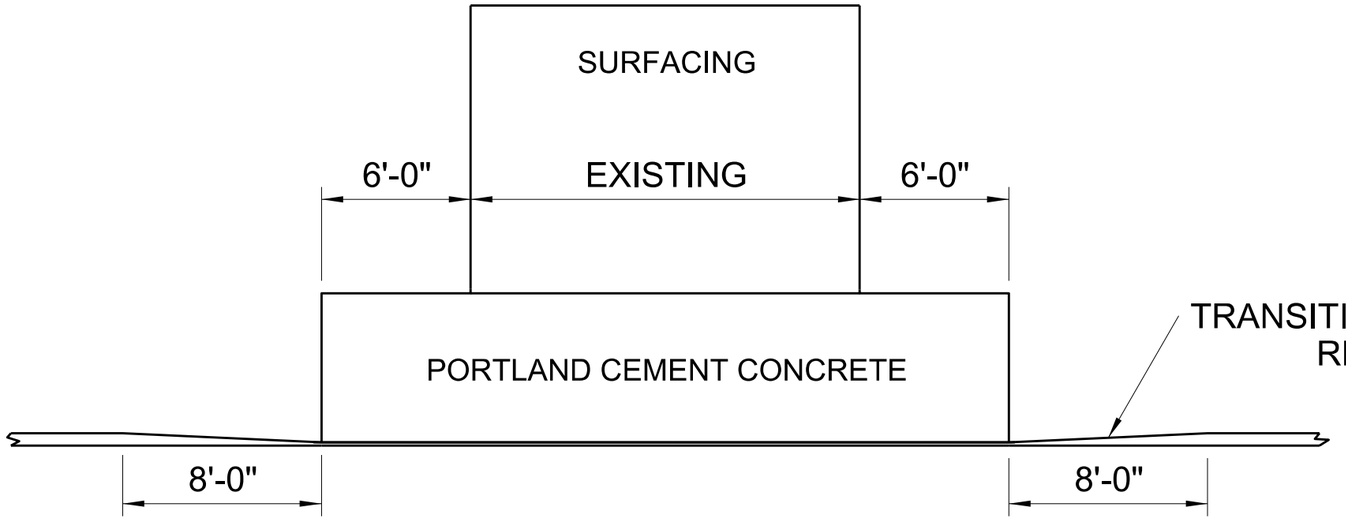
ADDITIONAL AGGREGATE AT 7" COMPACTED DEPTH = 207.37 TONS

SPECIAL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	27	104

4 SPECIAL DETAILS

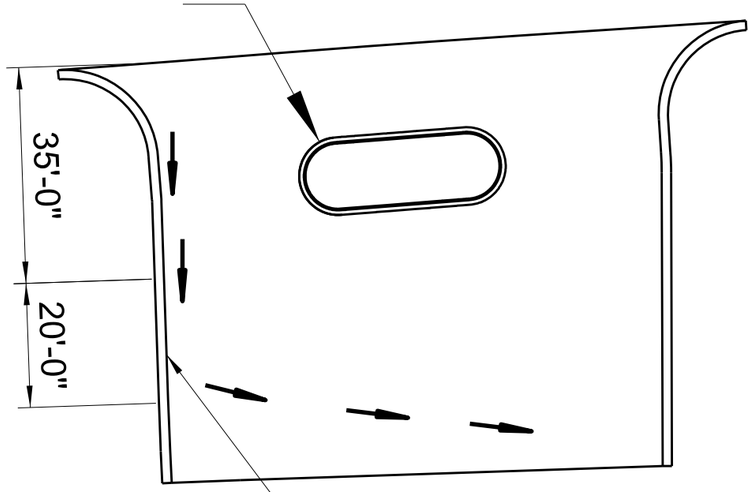
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING



TRANSITION TO MODIFIED CURB AND GUTTER IN 8'
REFER TO CG-1 FOR MORE DETAILS

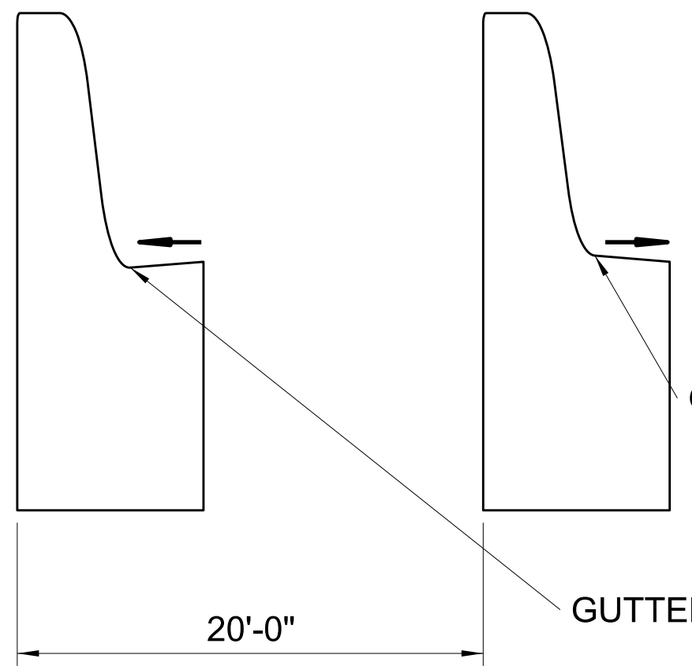
DETAIL OF TYPICAL PRIVATE ENTRANCE WITH 2" MODIFIED CURB
STATIONS: 103+34, 106+64, AND 107+64

DETAILS OF PRIVATE ENTRANCES
AT STATION 111+93 AND 112+51



TRANSITION TYPE A CURB AND GUTTER
TO DRAIN TOWARD PARKING LOT IN 20'

DETAIL OF GUTTER TRANSITION IN
PARKING LOT AT STATION 111+93



GUTTER SLOPED TOWARDS ROADWAY

GUTTER SLOPED TOWARDS CURB

SPECIAL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	28	104

4 SPECIAL DETAILS

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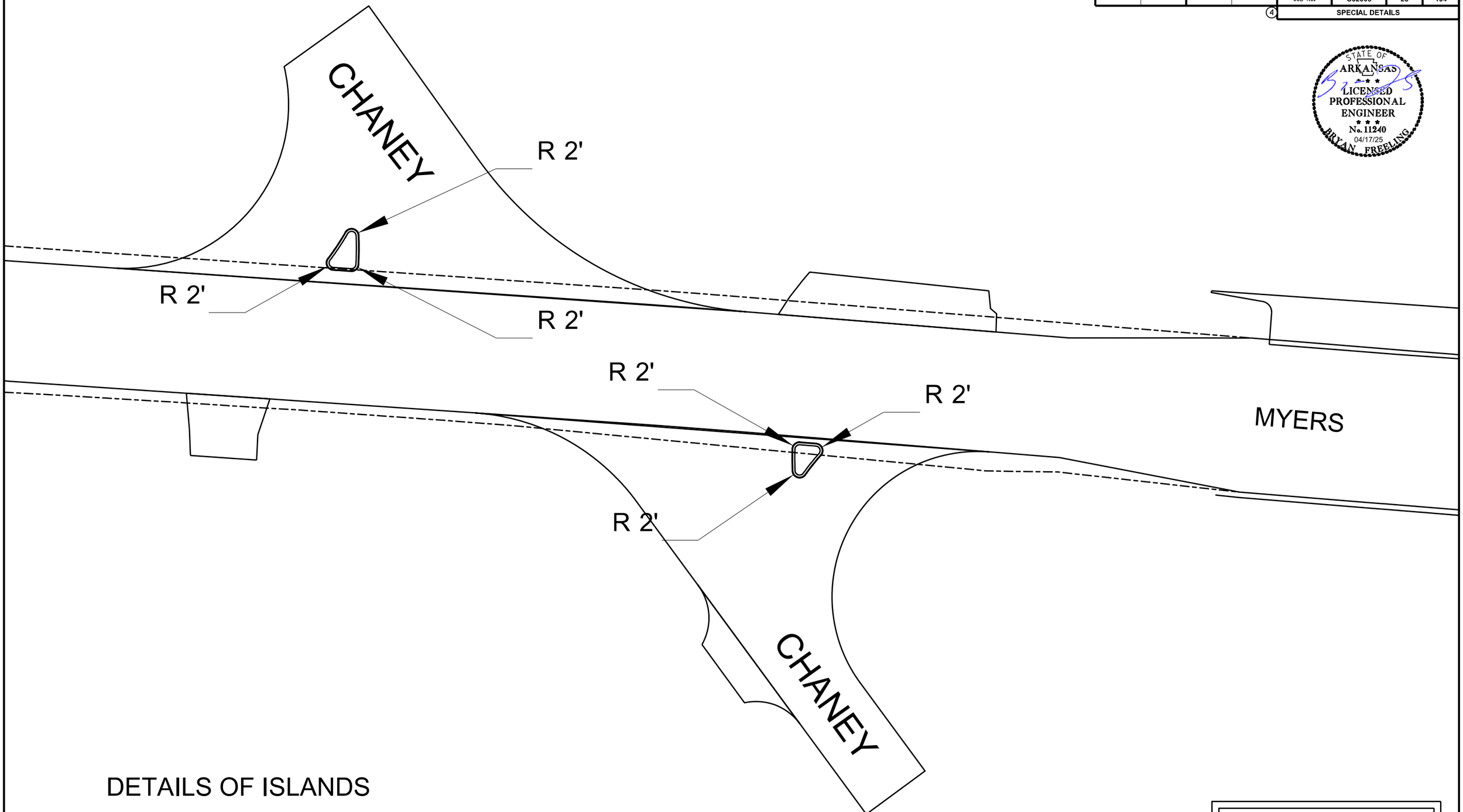
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING



DETAILS OF ISLANDS
ON CHANEY

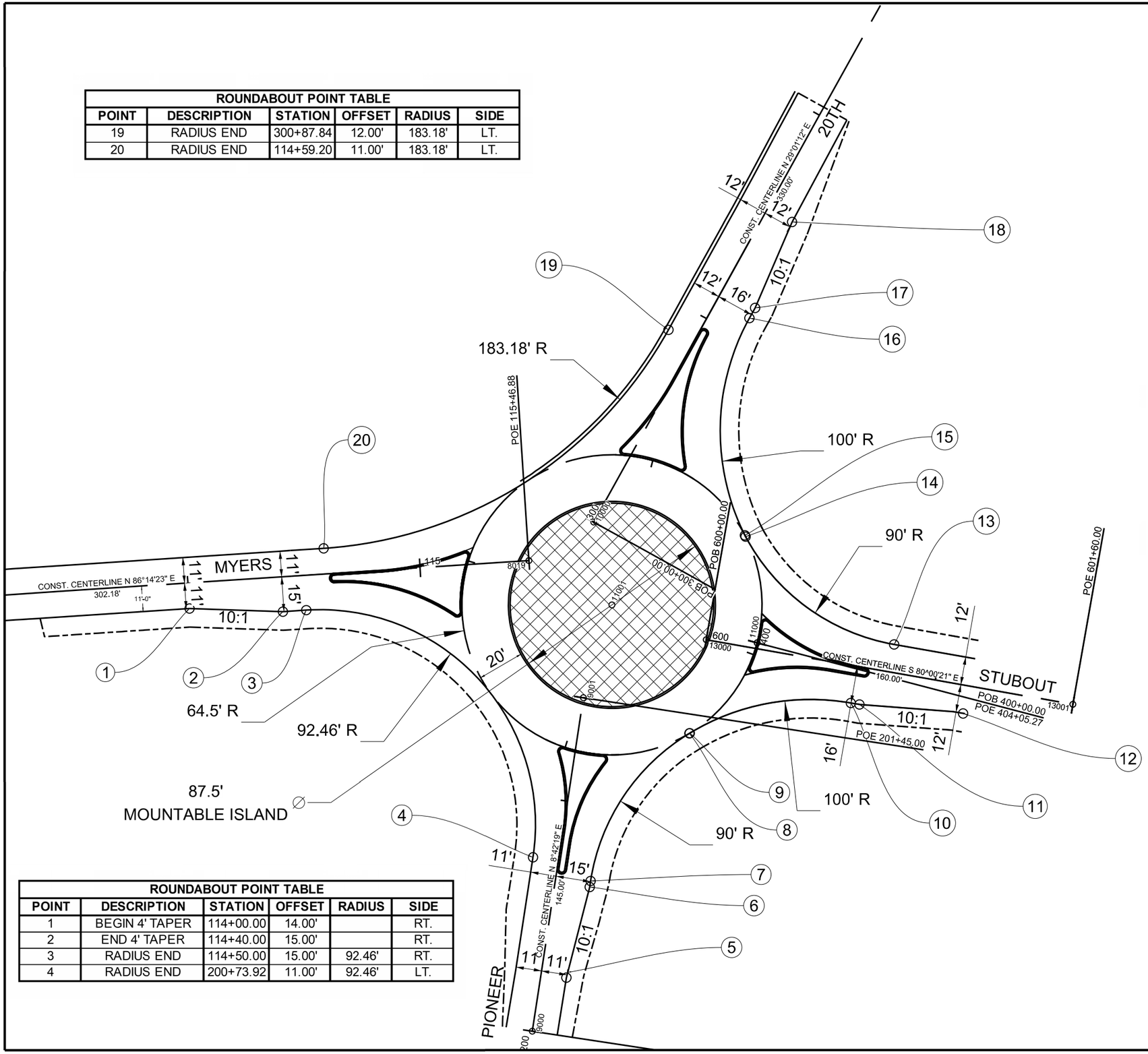
SPECIAL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	29	104

4 SPECIAL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING

ROUNDABOUT POINT TABLE					
POINT	DESCRIPTION	STATION	OFFSET	RADIUS	SIDE
19	RADIUS END	300+87.84	12.00'	183.18'	LT.
20	RADIUS END	114+59.20	11.00'	183.18'	LT.



ROUNDABOUT POINT TABLE					
POINT	DESCRIPTION	STATION	OFFSET	RADIUS	SIDE
13	RADIUS END	600+79.88	12.00'	90.00'	LT.
14	RADIUS END	600+09.52	44.56'	90.00'	LT.
15	RADIUS END	300+26.57	59.58'	100.00'	RT.
16	RADIUS END	301+09.15	16.00'	100.00'	RT.
17	BEGIN 4' TAPER	301+14.15	16.00'		RT.
18	END 4' TAPER	301+54.15	12.00'		RT.

ROUNDABOUT POINT TABLE					
POINT	DESCRIPTION	STATION	OFFSET	RADIUS	SIDE
5	BEGIN 4' TAPER	200+25.00	11.00'		RT.
6	END 4' TAPER	200+65.00	15.00'		RT.
7	RADIUS END	200+67.63	15.00'	90.00'	RT.
8	RADIUS END	201+36.75	47.36'	90.00'	RT.
9	RADIUS END	600+00.00	40.79'	100.00'	RT.
10	RADIUS END	600+65.91	16.00'	100.00'	RT.
11	BEGIN 4' TAPER	600+70.00	16.00'		RT.
12	END 4' TAPER	600+10.00	12.00'		RT.

ROUNDABOUT POINT TABLE					
POINT	DESCRIPTION	STATION	OFFSET	RADIUS	SIDE
1	BEGIN 4' TAPER	114+00.00	14.00'		RT.
2	END 4' TAPER	114+40.00	15.00'		RT.
3	RADIUS END	114+50.00	15.00'	92.46'	RT.
4	RADIUS END	200+73.92	11.00'	92.46'	LT.

ROUNDABOUT EDGE OF LANES

SPECIAL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	30	104

4 SPECIAL DETAILS

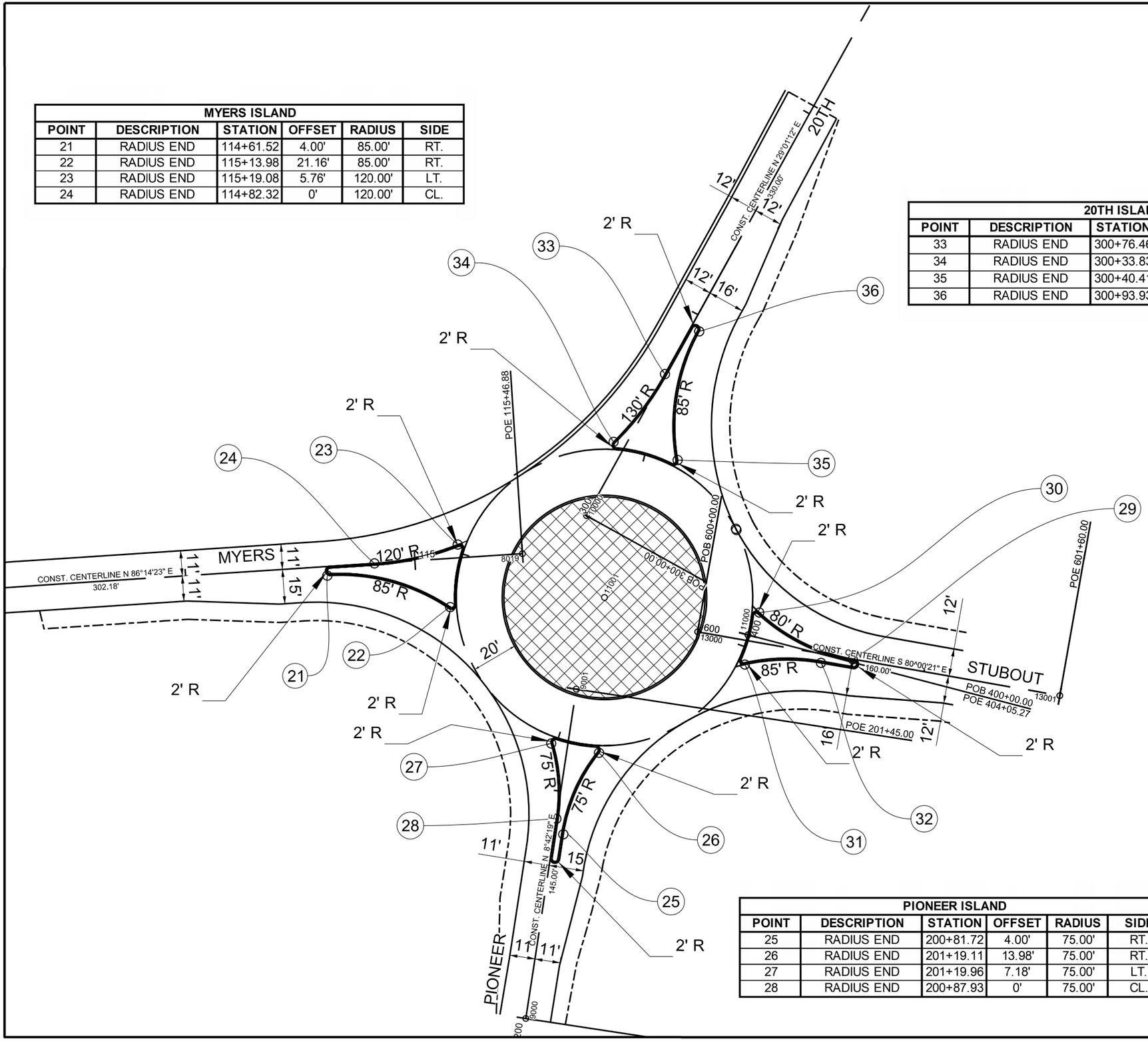
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING

MYERS ISLAND					
POINT	DESCRIPTION	STATION	OFFSET	RADIUS	SIDE
21	RADIUS END	114+61.52	4.00'	85.00'	RT.
22	RADIUS END	115+13.98	21.16'	85.00'	RT.
23	RADIUS END	115+19.08	5.76'	120.00'	LT.
24	RADIUS END	114+82.32	0'	120.00'	CL.

20TH ISLAND					
POINT	DESCRIPTION	STATION	OFFSET	RADIUS	SIDE
33	RADIUS END	300+76.46	0'	130.00'	CL.
34	RADIUS END	300+33.83	5.27'	130.00'	LT.
35	RADIUS END	300+40.41	22.97'	85.00'	RT.
36	RADIUS END	300+93.93	4.00'	85.00'	RT.

STUBOUT ISLAND					
POINT	DESCRIPTION	STATION	OFFSET	RADIUS	SIDE
29	RADIUS END	600+68.53	0'	80.00'	CL.
30	RADIUS END	600+24.98	12.89'	80.00'	LT.
31	RADIUS END	600+22.72	10.46'	85.00'	RT.
32	RADIUS END	600+55.23	4.00'	85.00'	RT.

PIONEER ISLAND					
POINT	DESCRIPTION	STATION	OFFSET	RADIUS	SIDE
25	RADIUS END	200+81.72	4.00'	75.00'	RT.
26	RADIUS END	201+19.11	13.98'	75.00'	RT.
27	RADIUS END	201+19.96	7.18'	75.00'	LT.
28	RADIUS END	200+87.93	0'	75.00'	CL.

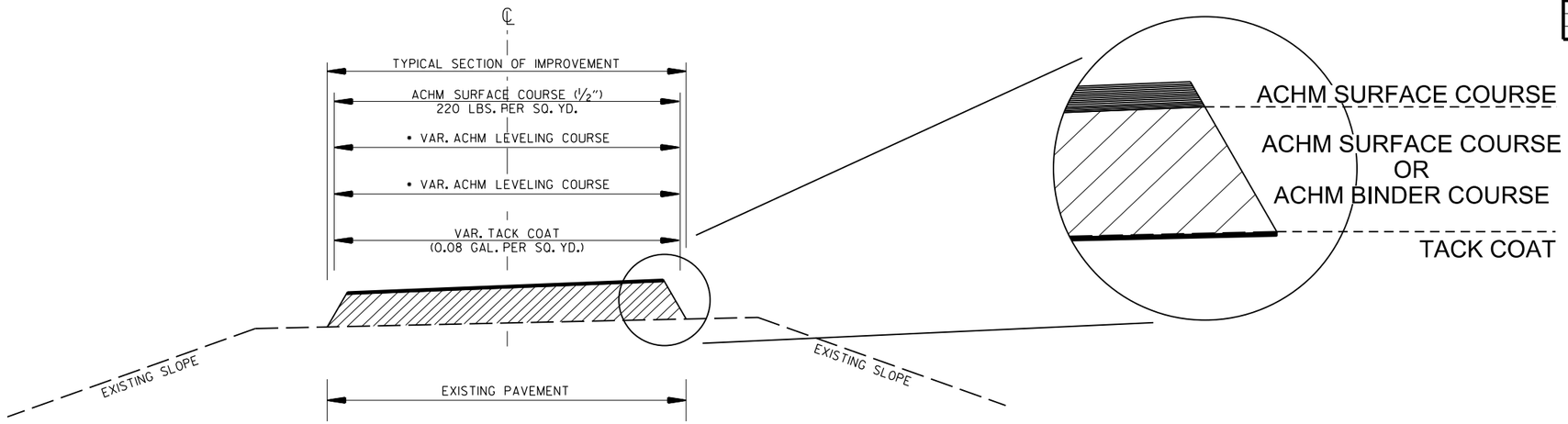


DETAILS OF RAISED MEDIANS

SPECIAL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	31	104

4 SPECIAL DETAILS



METHOD OF RAISING GRADE

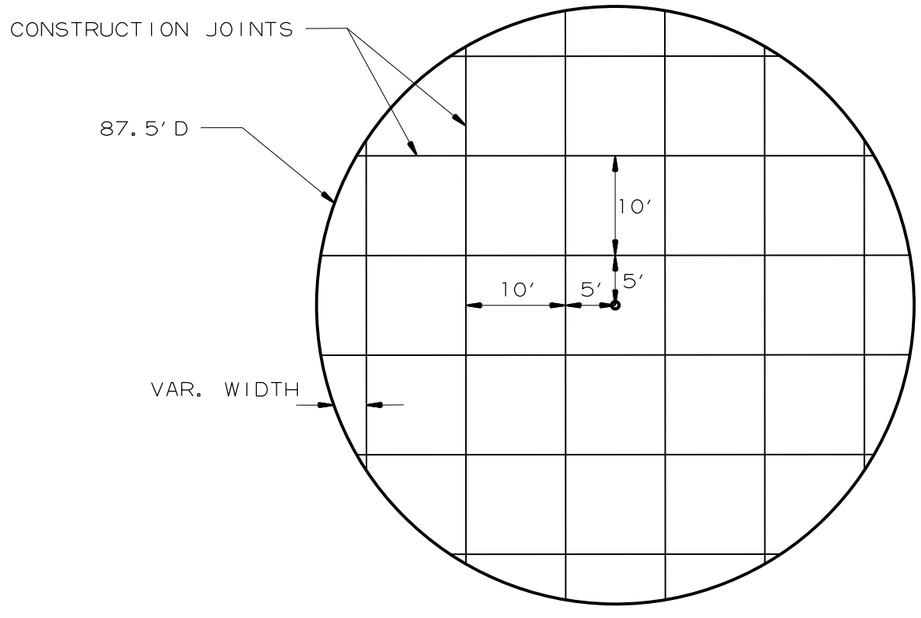
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING

NOTES:

(1) THIS DETAIL TO BE USED ONLY WHERE DIRECTED BY THE ENGINEER.

(2) QUANTITIES FOR METHOD OF GRADE RAISE USING ASPHALT WERE CALCULATED ON THIS PROJECT AT LOCATIONS WHERE THE DISTANCE BETWEEN THE EXISTING ASPHALT ROADWAY AND THE PROPOSED SUBGRADE WAS ONE FOOT OR LESS.

(3) IN LOCATIONS WHERE THE DISTANCE BETWEEN THE BOTTOM OF PROPOSED SURFACE COURSE AND THE EXISTING ASPHALT ROADWAY IS LESS THAN THREE INCHES, ACHM SURFACE COURSE (1/2") SHALL BE USED FOR LEVELING. IN LOCATIONS WHERE THE DISTANCE BETWEEN THE PROPOSED SUBGRADE AND THE EXISTING ASPHALT ROADWAY IS EQUAL TO OR GREATER THAN THREE INCHES, ACHM BINDER COURSE (1") SHALL BE USED FOR LEVELING.



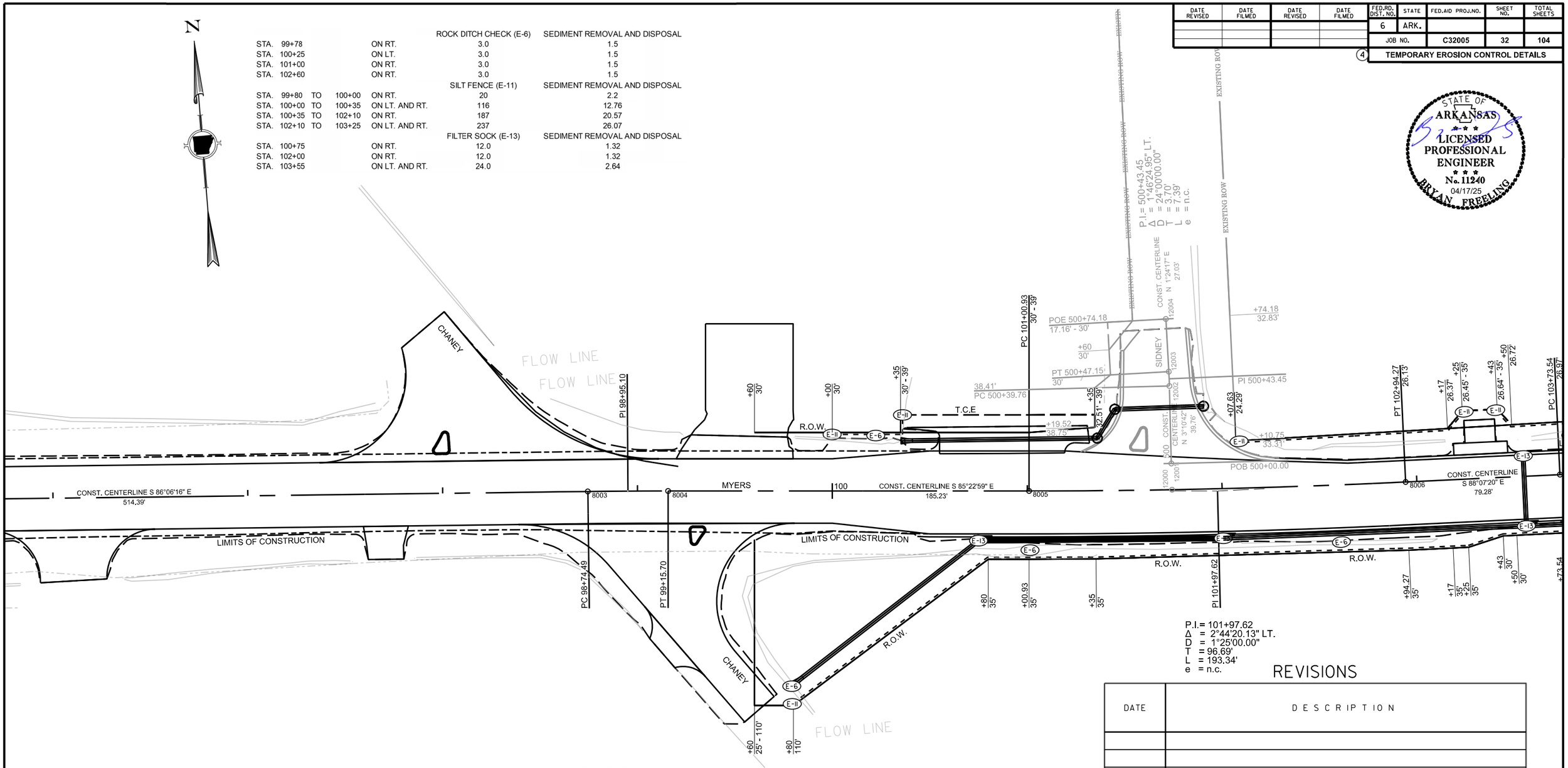
CENTRAL CONCRETE ISLAND DETAIL

SPECIAL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	32	104

4 TEMPORARY EROSION CONTROL DETAILS

				ROCK DITCH CHECK (E-6)	SEDIMENT REMOVAL AND DISPOSAL
STA. 99+78			ON RT.	3.0	1.5
STA. 100+25			ON LT.	3.0	1.5
STA. 101+00			ON RT.	3.0	1.5
STA. 102+60			ON RT.	3.0	1.5
				SILT FENCE (E-11)	SEDIMENT REMOVAL AND DISPOSAL
STA. 99+80	TO	100+00	ON RT.	20	2.2
STA. 100+00	TO	100+35	ON LT. AND RT.	116	12.76
STA. 100+35	TO	102+10	ON RT.	187	20.57
STA. 102+10	TO	103+25	ON LT. AND RT.	237	26.07
				FILTER SOCK (E-13)	SEDIMENT REMOVAL AND DISPOSAL
STA. 100+75			ON RT.	12.0	1.32
STA. 102+00			ON RT.	12.0	1.32
STA. 103+55			ON LT. AND RT.	24.0	2.64



STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING

REVISIONS

DATE	DESCRIPTION

TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	33	104

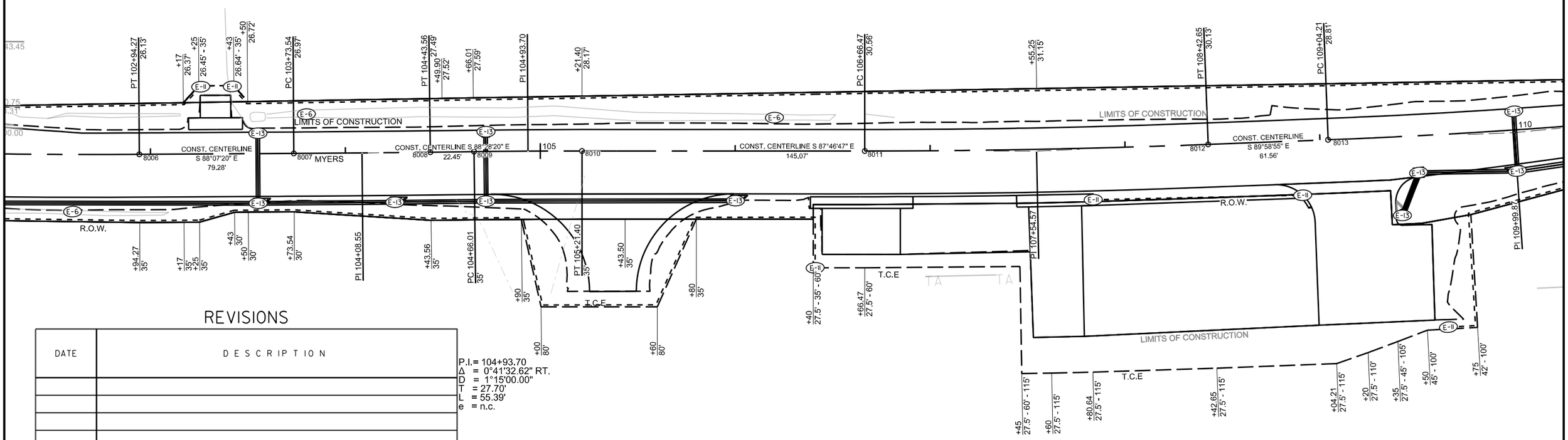
4 TEMPORARY EROSION CONTROL DETAILS

				ROCK DITCH CHECK (E-6)	SEDIMENT REMOVAL AND DISPOSAL
STA.	103+80			ON LT.	3.0	1.5
STA.	106+20			ON LT.	3.0	1.5
				SILT FENCE (E-11)	SEDIMENT REMOVAL AND DISPOSAL
STA.	103+25	TO	103+42	ON RT.	18	1.98
STA.	103+42	TO	106+41	ON LT. AND RT.	693	76.23
STA.	106+41	TO	107+83	ON LT.	142	15.62
STA.	107+83	TO	108+90	ON LT. AND RT.	215	23.65
STA.	108+90	TO	109+61	ON LT.	71	7.81
STA.	109+61	TO	110+59	ON LT. AND RT.	310	34.1
				FILTER SOCK (E-13)	SEDIMENT REMOVAL AND DISPOSAL
STA.	104+25			ON RT.	12.0	1.32
STA.	104+72			ON LT. AND RT.	24.0	2.64
STA.	109+25			ON RT.	12.0	1.32
STA.	106+00			ON RT.	12.0	1.32
STA.	109+50			ON RT.	12.0	1.32
STA.	109+40			ON RT.	12.0	1.32
STA.	110+00			ON LT. AND RT.	24.0	2.64

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING

P.I.= 104+08.55
Δ = 0°21'00.31" LT.
D = 0°30'00.00"
T = 35.01'
L = 70.02'
e = n.c.

P.I.= 107+54.57
Δ = 2°12'08.13" LT.
D = 1°15'00.00"
T = 88.10'
L = 176.18'
e = n.c.



P.I.= 104+93.70
Δ = 0°41'32.62" RT.
D = 1°15'00.00"
T = 27.70'
L = 55.39'
e = n.c.

REVISIONS

DATE	DESCRIPTION

0 100 200

SCALE IN FEET

TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	34	104

4 TEMPORARY EROSION CONTROL DETAILS

				ROCK DITCH CHECK (E-6)	SEDIMENT REMOVAL AND DISPOSAL
STA. 111+70			ON RT.	3.0	1.5
STA. 113+80			ON LT.	3.0	1.5
STA. 114+91			ON LT.	3.0	1.5
				SILT FENCE (E-11)	SEDIMENT REMOVAL AND DISPOSAL
STA. 110+59	TO	110+85	ON RT.	28	3.08
STA. 110+85	TO	111+02	ON LT. AND RT.	69	7.59
STA. 111+02	TO	111+22	ON LT.	21	2.31
STA. 111+22	TO	111+70	ON LT. AND RT.	105	11.55
STA. 111+70	TO	113+14	ON LT.	148	16.28
STA. 113+14	TO	113+50	ON LT. AND RT.	115	12.65
STA. 113+50	TO	113+71	ON RT.	21	2.31
STA. 113+71	TO	114+00	ON LT. AND RT.	90	9.9
STA. 114+00	TO	144+42	ON RT.	42	4.62
STA. 114+42	TO	115+21	ON LT. AND RT.	225	24.75
STA. 115+21	TO	115+46.88	ON LT.	28	3.08
				FILTER SOCK (E-13)	SEDIMENT REMOVAL AND DISPOSAL
STA. 110+75			ON RT.	12.0	1.32
STA. 111+70			ON LT. AND RT.	24.0	2.64
STA. 112+16			ON LT.	16.0	1.76
STA. 112+64			ON RT.	8.0	0.88
STA. 112+95			ON LT.	12.0	1.32
STA. 114+02			ON LT.	8.0	0.88
STA. 115+28			ON LT.	12.0	1.32

STATE OF ARKANSAS
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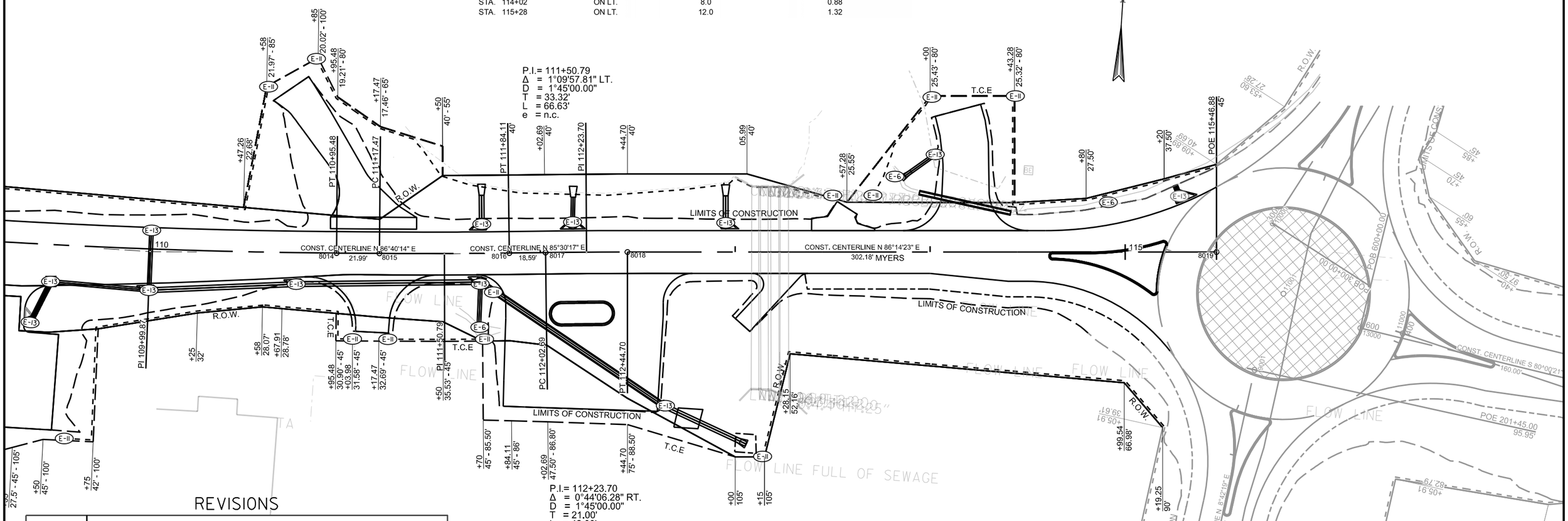
04/17/25
BRYAN FREELING



REVISIONS

DATE	DESCRIPTION

0 100 200

SCALE IN FEET

TEMPORARY EROSION CONTROL DETAILS

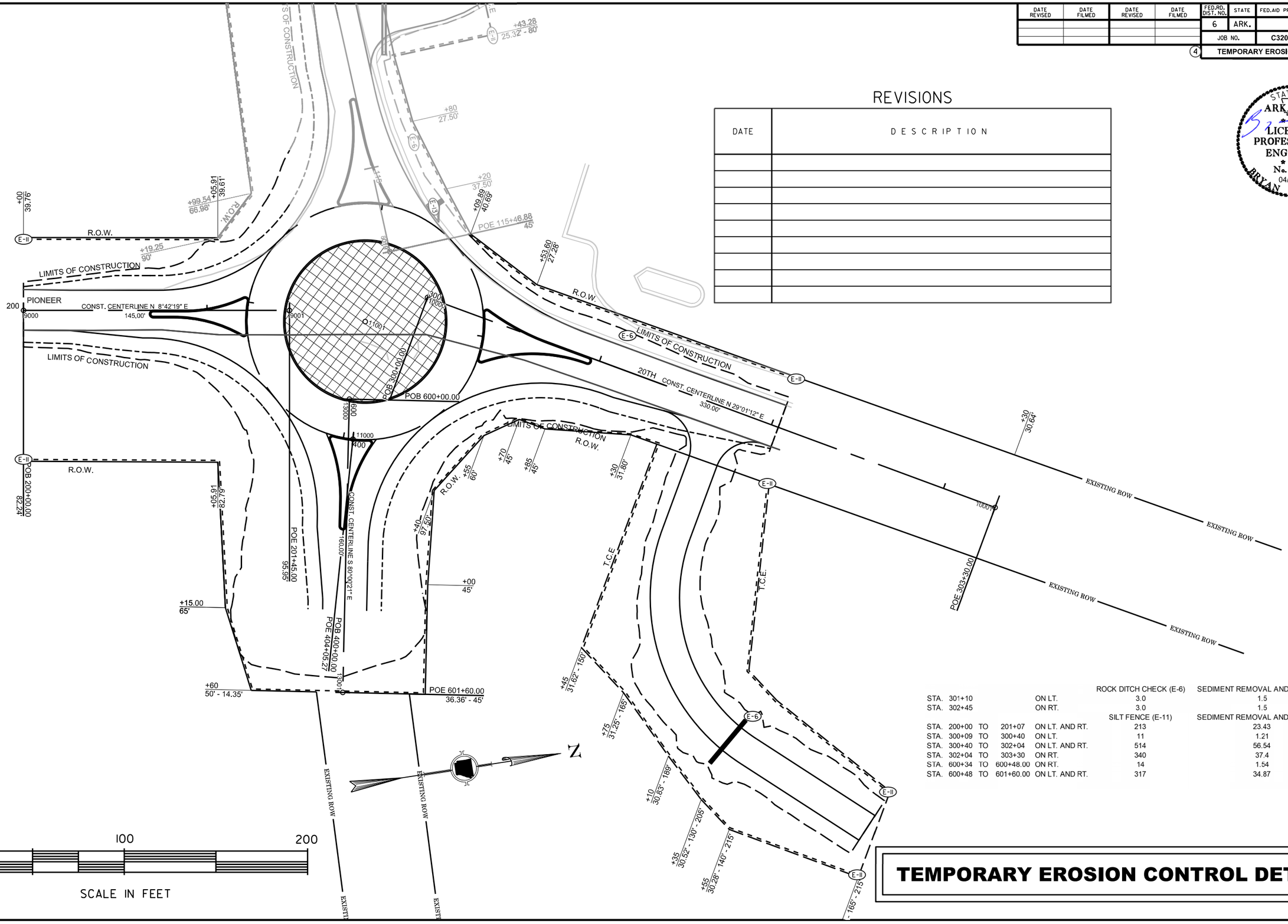
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	35	104

4 TEMPORARY EROSION CONTROL DETAILS

REVISIONS

DATE	DESCRIPTION

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING



				ROCK DITCH CHECK (E-6)	SEDIMENT REMOVAL AND DISPOSAL
STA. 301+10			ON LT.	3.0	1.5
STA. 302+45			ON RT.	3.0	1.5
				SILT FENCE (E-11)	SEDIMENT REMOVAL AND DISPOSAL
STA. 200+00	TO	201+07	ON LT. AND RT.	213	23.43
STA. 300+09	TO	300+40	ON LT.	11	1.21
STA. 300+40	TO	302+04	ON LT. AND RT.	514	56.54
STA. 302+04	TO	303+30	ON RT.	340	37.4
STA. 600+34	TO	600+48.00	ON RT.	14	1.54
STA. 600+48	TO	601+60.00	ON LT. AND RT.	317	34.87

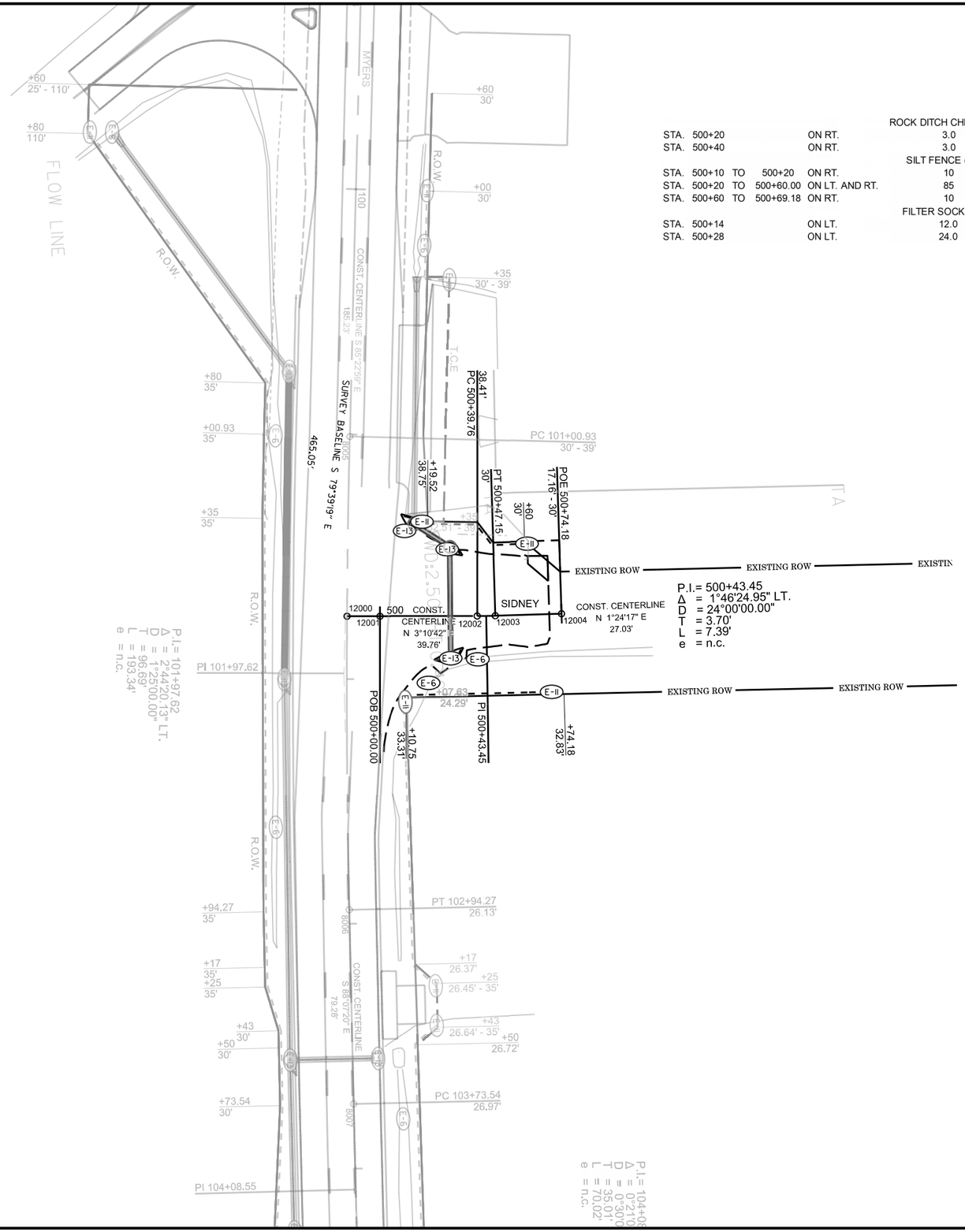
TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	36	104

4 TEMPORARY EROSION CONTROL DETAILS

				ROCK DITCH CHECK (E-6)	SEDIMENT REMOVAL AND DISPOSAL
STA. 500+20			ON RT.	3.0	1.5
STA. 500+40			ON RT.	3.0	1.5
				SILT FENCE (E-11)	SEDIMENT REMOVAL AND DISPOSAL
STA. 500+10	TO	500+20	ON RT.	10	1.1
STA. 500+20	TO	500+60.00	ON LT. AND RT.	85	9.35
STA. 500+60	TO	500+69.18	ON RT.	10	1.1
				FILTER SOCK (E-13)	SEDIMENT REMOVAL AND DISPOSAL
STA. 500+14			ON LT.	12.0	1.32
STA. 500+28			ON LT.	24.0	2.64

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING



0 100 200

SCALE IN FEET

REVISIONS

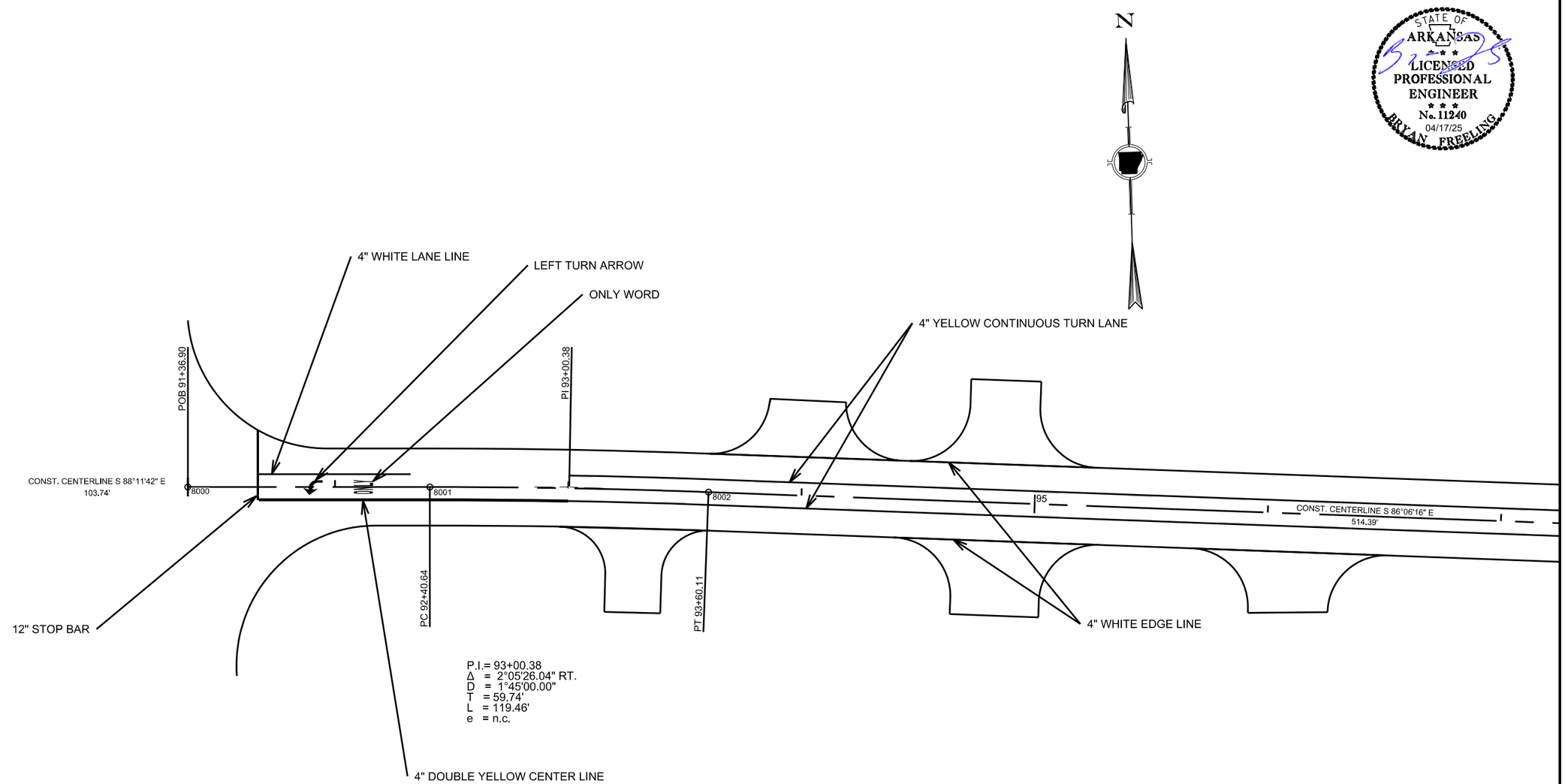
DATE	DESCRIPTION

TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	37	104

4 PERMANENT PAVEMENT MARKING DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING

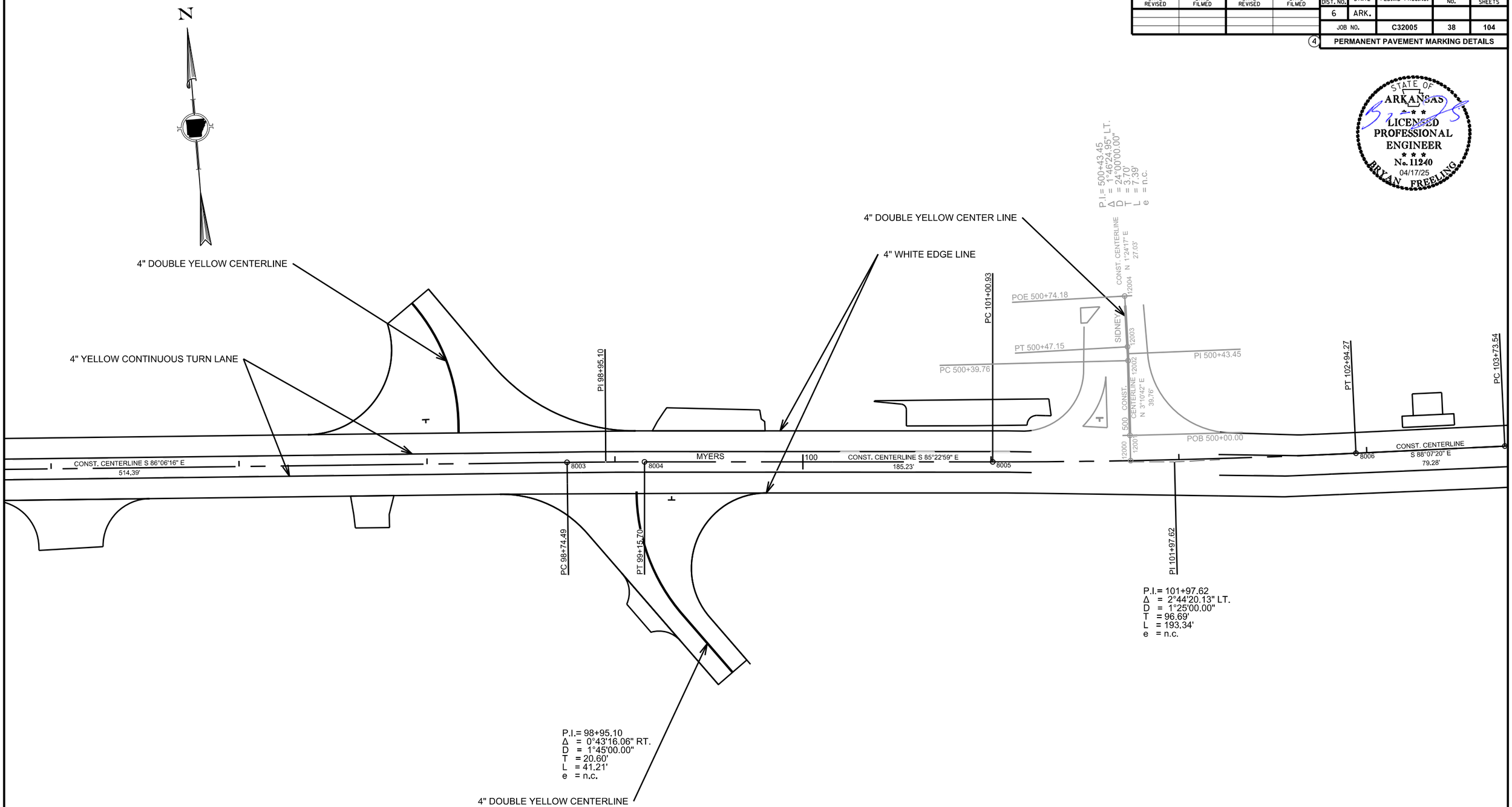


PERMANENT PAVEMENT MARKING DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	38	104

4 PERMANENT PAVEMENT MARKING DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING

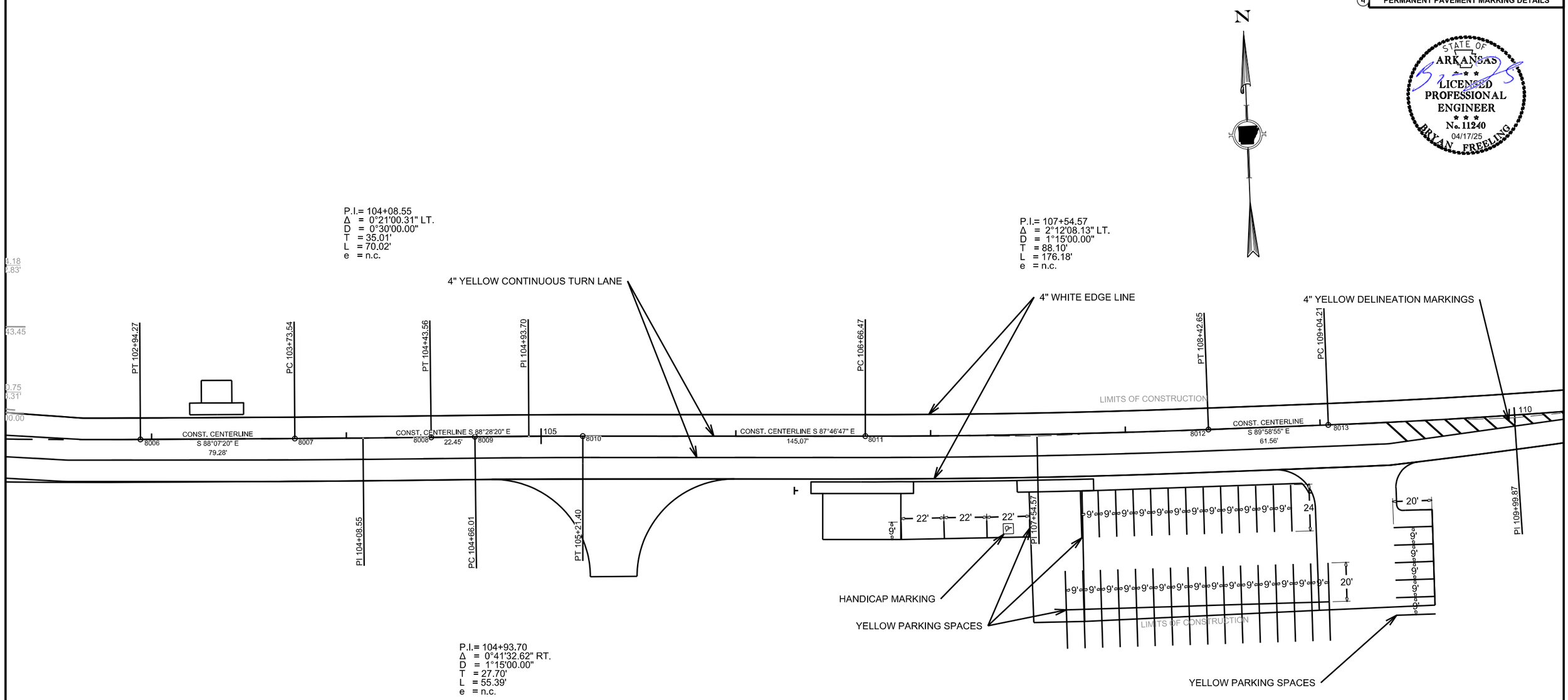


PERMANENT PAVEMENT MARKING DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	39	104

4 PERMANENT PAVEMENT MARKING DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING

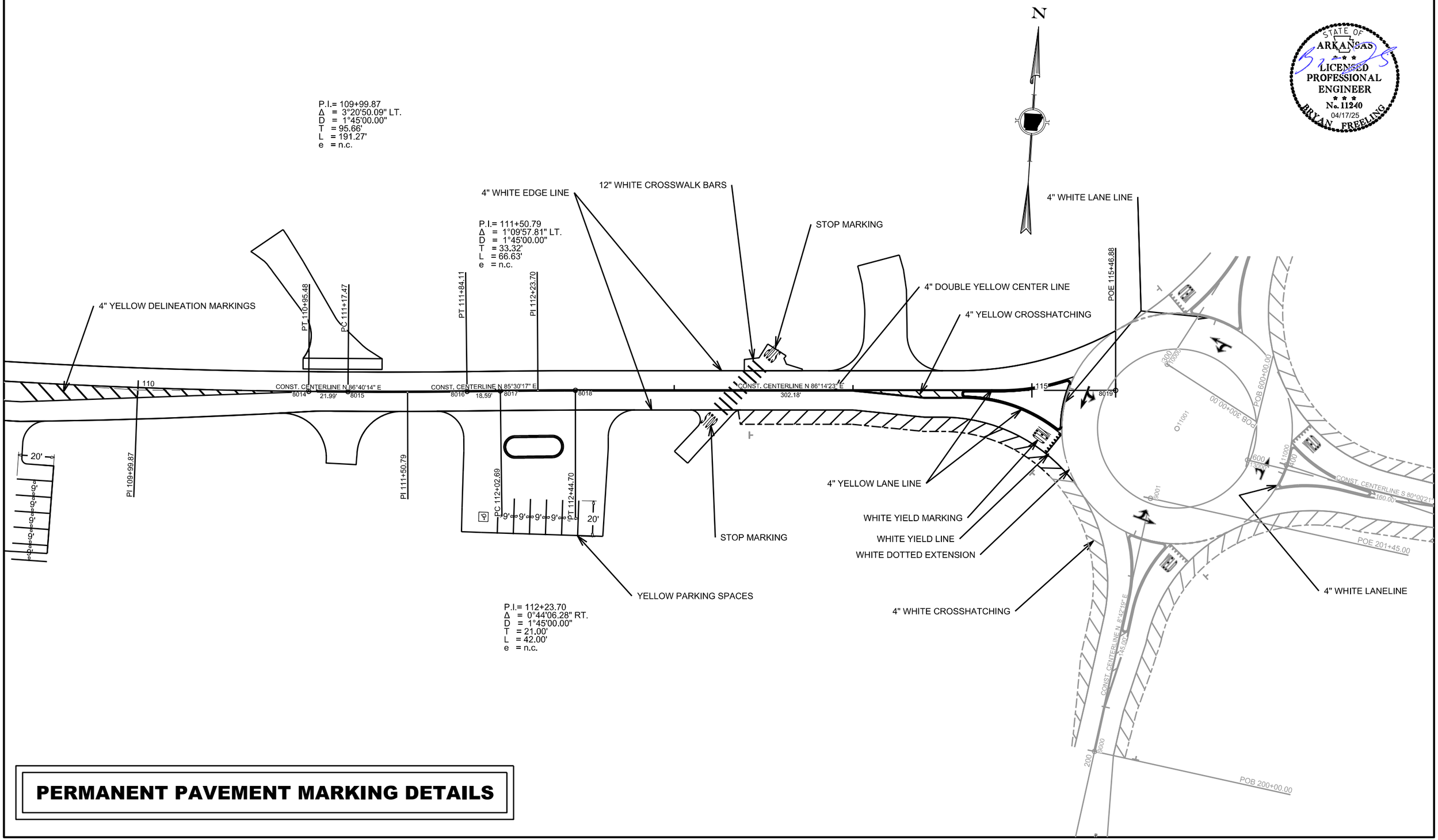


PERMANENT PAVEMENT MARKING DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	40	104

4 PERMANENT PAVEMENT MARKING DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING

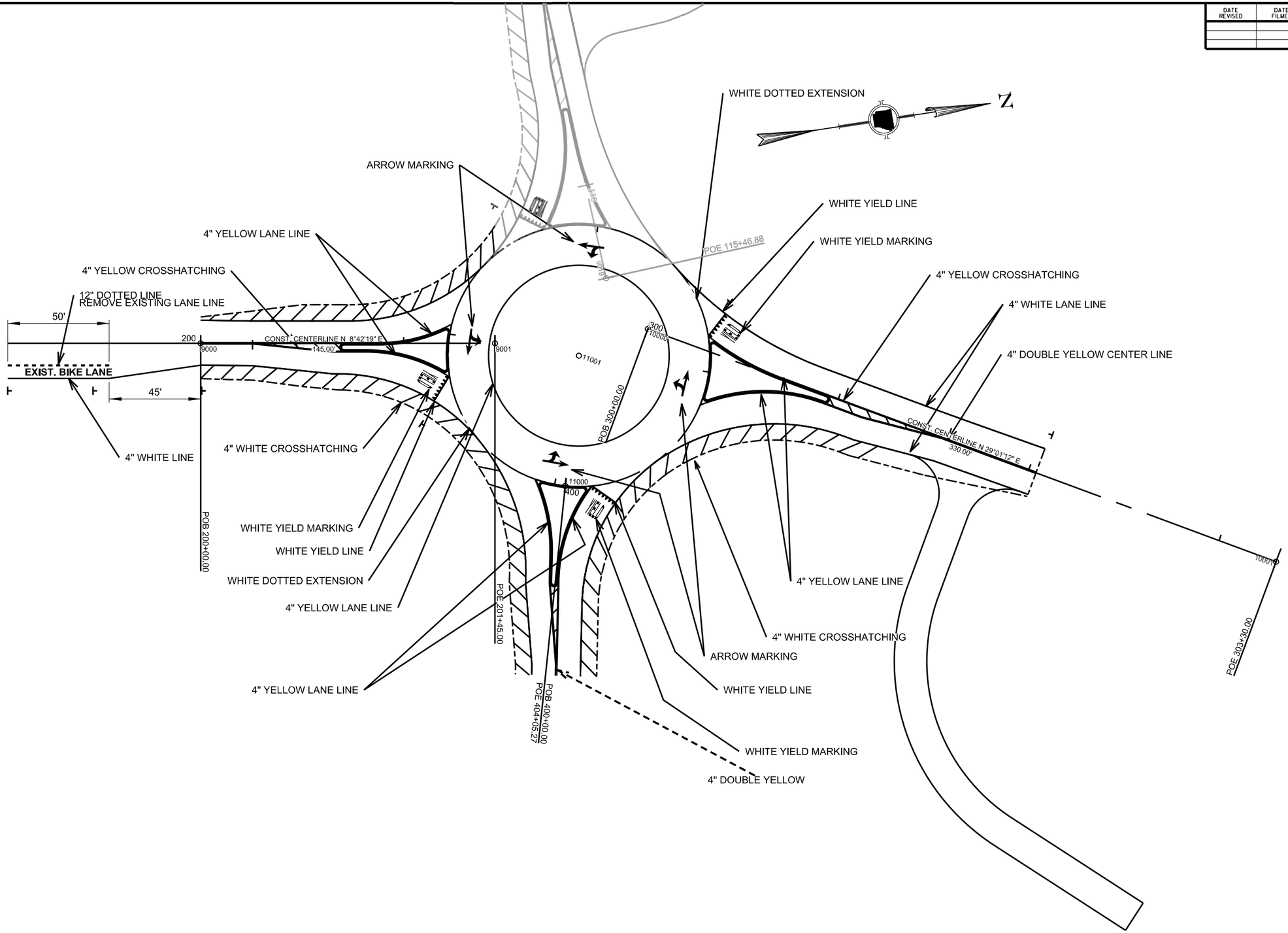


PERMANENT PAVEMENT MARKING DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	41	104

4 PERMANENT PAVEMENT MARKING DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING

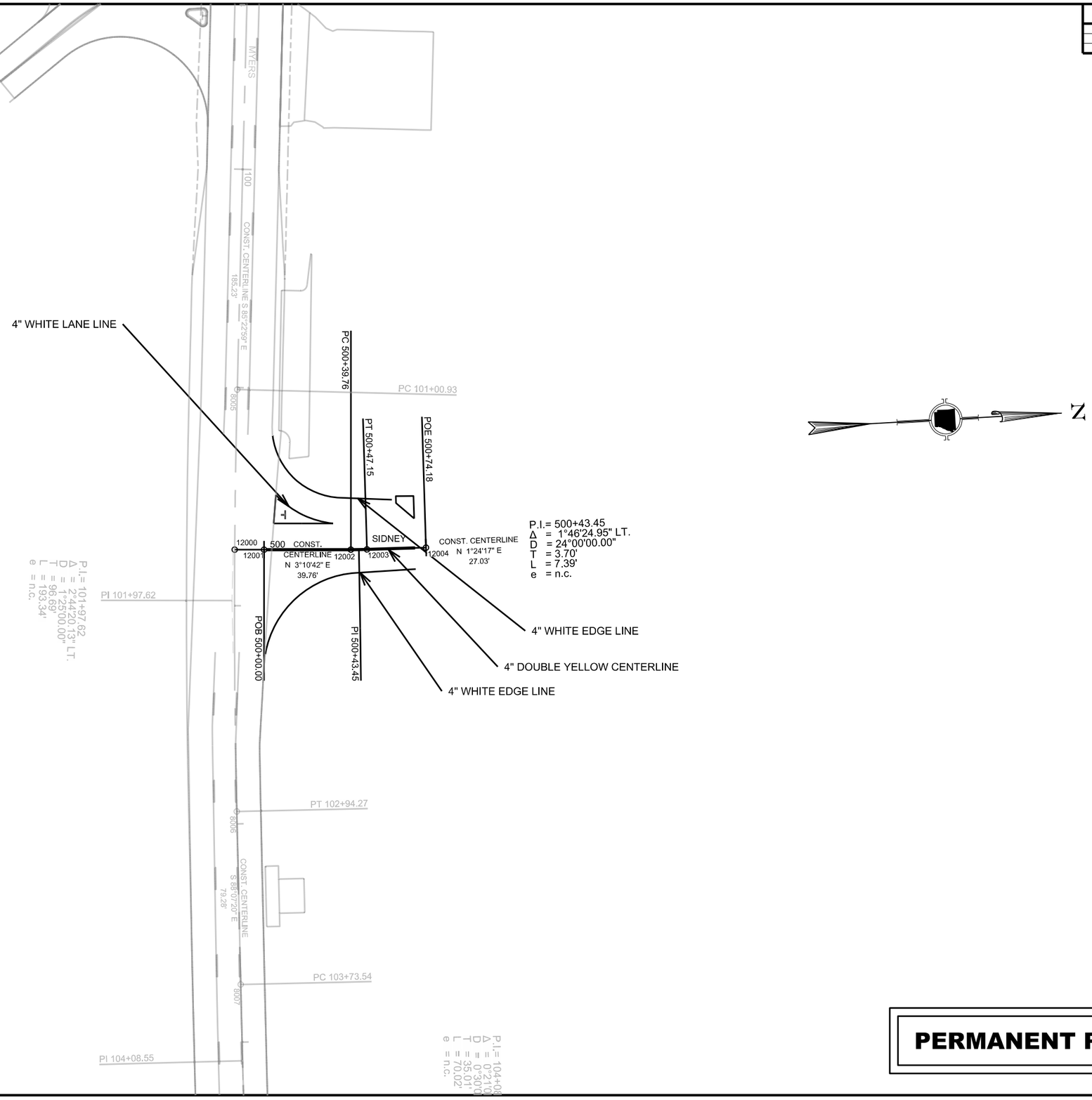


PERMANENT PAVEMENT MARKING DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	42	104

4 PERMANENT PAVEMENT MARKING DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING



PERMANENT PAVEMENT MARKING DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	43	104

4 QUANTITIES

EROSION CONTROL QUANTITIES

FROM	TO	LOCATION	PERMANENT EROSION CONTROL				TEMPORARY EROSION CONTROL				
			SOLID SODDING	DUMPED RIPRAP (GROUTED)	FILTER BLANKET	WATER	SAND BAG DITCH CHECK	ROCK DITCH CHECKS	SILT FENCE	FILTER SOCK (12")	SEDIMENT REMOVAL & DISPOSAL
							(E-5)	(E-6)	(E-11)	(E-13)	
STATION			SQ. YD.	CU. YD.	SQ. YD.	M. GAL.	BAG	CU. YD.	LIN. FT.	LIN. FT.	CU. YD.
ENTIRE PROJECT		ENTIRE PROJECT	3536.24	5.62	12.00	44.56		39.0	4415	284	536.4
ENTIRE PROJECT		AS DIRECTED	100.00			1.26	286		100		31
TOTALS:			**3636.24**	**5.62**	**12.00**	**45.82**	**286**	**39.0**	**4515**	**284**	**567.4**
USE:			3636	6	12	45.8	286	39	4515	284	567

BASIS OF ESTIMATE

WATER..... 12.6 GALLONS PER SQ. YD.
SAND BAG DITCH CHECK..... 22 BAG PER LOCATION
ROCK DITCH CHECK..... 3.0 CU. YD. PER LOCATION

CLEARING AND GRUBBING

STATION	STATION	CLEARING	GRUBBING
		STATION	STATION
109+50	110+30	1	1
113+35	115+24	2	2
200+00	201+45	2	2
300+00	303+30	4	4
600+00	601+60.00	2	2
TOTALS:		**11**	**11**

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
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04/17/25
BRYAN FREELING

STANDARD HIGHWAY SIGNS AND SUPPORT ASSEMBLIES

STATION	SIDE	STANDARD SIGN NUMBER														SUPPORT ASSEMBLIES	STANDARD DRAWING NUMBER
		R1-1 (STOP)		R1-2 (YIELD)		W4-2 (LANE ENDS)		R3-17 (BIKE LANE)		R3-17bP (ENDS)		W2-6 (CIRCULAR INTERSECTION)		R6-5P (ROUNDABOUT CIRCULATION)		TYPE A	
		NO.	SQ. FT.	NO.	SQ. FT.	NO.	SQ. FT.	NO.	SQ. FT.	NO.	SQ. FT.	NO.	SQ. FT.	NO.	SQ. FT.	EACH	
98+00	LT	1	6.25													1	SHS 1&2
99+30	RT.	1	6.25													1	SHS 1&2
106+30	RT.					1	9.00									1	SHS 1&2
113+42	RT.											1	6.25			1	SHS 1&2
115+00	RT.			1	9.00									1	6.25	1	SHS 1&2
199+47	RT.											1	6.25			1	SHS 1&2
200+00	RT.							1	3.00	1	1.33					1	SHS 1&2
201+09	RT.			1	9.00									1	6.25	1	SHS 1&2
300+33	LT.			1	9.00									1	6.25	1	SHS 1&2
302+05	LT.											1	6.25			1	SHS 1&2
500+10	LT.	1	6.25													1	SHS 1&2
SUBTOTALS:		3	18.75	3	27.00	1	9.00	1	3.00	1	1.33	3	18.75	3	18.75	11	
TOTAL:															**96.58**	**11**	

EARTHWORK

STATION	STATION	LOCATION / DESCRIPTION	UNCLASSIFIED EXCAVATION			COMPACTED EMBANKMENT		
			NORMAL	ADD'L	TOTAL	NORMAL	ADD'L	TOTAL
			CU. YD.					
94+02		PRIVATE ENTRANCE ON LT.					1	1
94+86		PRIVATE ENTRANCE ON LT.					1	1
96+10		PRIVATE ENTRANCE ON RT.					1	1
98+17		CHANEY ON LT.					4	4
99+12		CHANEY ON RT.					17	17
100+00	115+47	MYERS MAIN LANES	2203		2203	180		180
105+37		PRIVATE ENTRANCE ON RT.					124	124
107+64		PRIVATE ENTRANCE ON RT.		2	2			
108+00		PARKINGLOT ON RT.		155	155			
109+16		PRIVATE ENTRANCE ON RT.		283	283			
111+09		PRIVATE ENTRANCE ON LT.					35	35
111+14		PRIVATE ENTRANCE ON RT.					1	1
111+93		PRIVATE ENTRANCE ON RT.					8	8
112+51		PRIVATE ENTRANCE ON RT.					4	4
113+27		PEDESTRIAN WALK ON RT.					1	1
114+17		PRIVATE ENTRANCE ON LT.					5	5
200+00	201+45	PIONEER	25		25	110		110
300+00	302+03.93	20TH	371		371	88		88
301+72		PRIVATE ENTRANCE ON RT.		150	150		285	285
400+00	404+05.26	ROUNDABOUT	93		93	713		713
500+00	500+69.18	SIDNEY	140		140			
500+65		PRIVATE ENTRANCE ON LT.		1	1			
600+00	601+15	STUB OUT				2124		2124
601+15	601+60	EMBANKMENT AT END OF ROAD					663	663
TOTALS:			**2832**	**591**	**3423**	**3215**	**1150**	**4365**

NOTE: EARTHWORK QUANTITIES SHOWN ABOVE SHALL BE PAID AS PLAN QUANTITY.

COLD MILLING ASPHALT PAVEMENT

FROM	TO	LOCATION	WIDTH	COLD MILLING ASPHAL PAVEMENT
STATION			FEET	SQ. YD.
98+17		CHANEY ON LT.	VAR.	292.15
99+12		CHANEY ON RT.	VAR.	194.81
91+36.90	101+50	MYERS ROAD	VAR.	2193.85
103+34		PRIVATE ENTRANCE ON LT.	VAR.	38.59
104+95		PRIVATE ENTRANCE ON RT.	VAR.	36.53
106+64		PRIVATE ENTRANCE ON RT.	VAR.	49.88
111+14		PRIVATE ENTRANCE ON RT.	VAR.	80.86
111+50	113+71.58	MYERS	VAR.	65.90
111+93		PRIVATE ENTRANCE ON RT.	VAR.	163.59
113+27		PEDESTRIAN WALK PATH ON RT.	VAR.	15.00
113+54		PEDESTRIAN WALK PATH ON LT.	VAR.	25.57
114+17		PRIVATE ENTRANCE ON LT.	VAR.	80.67
200+00	200+40.00	PIONEER	VAR.	78.50
301+50	302+03.93	20TH	VAR.	108.37
TOTALS:				**3424.27**
USE:				3424

TRAFFIC CONTROL DEVICES

STATION	W20-1								G20-2 (END ROAD WORK)		W21-5 (SHOULDER WORK)		TRAFFIC DRUMS*	STANDARD DRAWING NUMBER
	1500 FT.		1000 FT.		500 FT.		AHEAD							
	NO.	SQ. FT.	NO.	SQ. FT.	NO.	SQ. FT.	NO.	SQ. FT.	NO.	SQ. FT.	NO.	SQ. FT.	EACH	
91+36.90	2	32.00	2	32.00	2	32.00	1	16.00	1	8.00				TC-1, TC-2, TC-3
98+17							1	16.00	1	8.00				TC-1, TC-2, TC-3
99+12							1	16.00	1	8.00				TC-1, TC-2, TC-3
113+37											1	6.25		TC-1, TC-2, TC-3
185+00	1	16.00												TC-1, TC-2, TC-3
190+00			1	16.00										TC-1, TC-2, TC-3
195+00					1	16.00								TC-1, TC-2, TC-3
200+00							1	16.00	1	8.00	1	6.25		TC-1, TC-2, TC-3
302+04							1	16.00	1	8.00				TC-1, TC-2, TC-3
307+04					1	16.00								TC-1, TC-2, TC-3
312+04			1	16.00										TC-1, TC-2, TC-3
317+04	1	16.00												TC-1, TC-2, TC-3
500+69.18							1	16.00	1	8.00				TC-1, TC-2, TC-3
505+70					1	16.00								TC-1, TC-2, TC-3
510+70			1	16.00										TC-1, TC-2, TC-3
515+70	1	16.00												TC-1, TC-2, TC-3
ENTIRE PROJECT													100	TC-1, TC-2, TC-3
SUBTOTALS:	5	80.00	5	80.00	5	80.00	6	96.00	6	48.00	2	12.50	100*	
TOTALS:												**396.50**	**100***	

NOTE: LOCATION OF THE TRAFFIC CONTROL DEVICES TO BE AS DIRECTED BY THE ENGINEER.SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS.

QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	44	104

4 QUANTITIES

BASE AND SURFACING

STARTING STATION	ENDING STATION	DESCRIPTION	LENGTH	AGGREGATE BASE COURSE (CLASS 7)		WIDTH	TACK COAT			WIDTH	ACHM BASE COURSE (1 1/2")*			WIDTH	ACHM BINDER COURSE (1")*			WIDTH	ACHM SURFACE COURSE (1/2")*			PORTLAND CEMENT CONCRETE PAVEMENT (8" UNIFORM THICKNESS)	PORTLAND CEMENT CONCRETE DRIVEWAY
			FEET	TONS/STATION	TONS	FEET	SQ. YD.	GAL./SQ.YD.	GALLONS	FEET	SQ. YD,	LBS./SQ. YD.	TONS	FEET	SQ. YDS.	LBS./SQ. YD.	TONS	FEET	SQ. YD.	LBS./SQ. YD.	TONS	SQ. YD.	SQ. YD.
91+36.90	100+00.00	MYERS	863.10			VAR.	4352.16	0.08	348.17									VAR.	4352.16	220.00	478.74		
93+29.00		PRIVATE ENTRANCE ON RT.	36.00				115.07	0.08	9.21									VAR.	115.07	220.00	12.66		
94+02.00		PRIVATE ENTRANCE ON LT.	24.26				117.62	0.08	9.41									VAR.	117.62	220.00	12.94		
94+84.00		PRIVATE ENTRANCE ON RT.	32.00				164.92	0.08	13.19									VAR.	164.92	220.00	18.14		
94+86.00		PRIVATE ENTRANCE ON LT.	36.00				149.81	0.08	11.98									VAR.	149.81	220.00	16.48		
96+10.00		PRIVATE ENTRANCE ON RT.	26.00				128.03	0.08	10.24									VAR.	128.03	220.00	14.08		
97+71.00		PRIVATE ENTRANCE ON RT.	17.00																				37.65
98+17.00		CHANEY	75.09				496.98	0.08	39.76									VAR.	496.98	220.00	54.67		
99+12.00		CHANEY	110.95			VAR.	468.80	0.08	37.50									VAR.	468.80	220.00	51.57		
99+20.00		PRIVATE ENTRANCE ON RT.	8.83																				26.93
99+55.00		PRIVATE ENTRANCE ON LT.	11.77				71.94	0.08	5.76									VAR.	71.94	220.00	7.91		
100+00.00	101+50.00	MYERS	150.00															VAR.	0.00	220.00	0.00		
100+90.00		PRIVATE ENTRANCE ON LT.	13.85																				113.43
101+50.00	102+65.00	MYERS	115.00			VAR.	469.85	0.17	79.87	VAR.	469.85	770.00	180.89	VAR.	469.85	330.00	77.53	VAR.	469.85	220.00	51.68		
102+65.00	108+80.64	MYERS	615.64			33.00	2257.35	0.17	383.75	33.00	2257.35	770.00	869.08	33.00	2257.35	330.00	372.46	33.00	2257.35	220.00	248.31		
108+80.64	109+35.00	MYERS	54.36			34.00	205.36	0.17	34.91	34.00	205.36	770.00	79.06	34.00	205.36	331.00	33.99	34.00	205.36	221.00	22.69		
103+34.00		PRIVATE ENTRANCE ON LT.	17.57				20.57	0.08	1.65									16.00	20.57	220.00	2.26		18.44
105+37.00		PRIVATE ENTRANCE ON RT.	50.00				252.54	0.08	20.20					VAR.	252.54	440.00	55.56	VAR.	252.54	220.00	27.78		
106+64.00		PRIVATE ENTRNACE ON RT.	29.60				105.33	0.08	8.43									40.00	105.33	220.00	11.59		35.03
107+17.00		PARKING LOT ON RT.	29.32				206.67	0.08	16.53									VAR.	206.67	220.00	22.73		
107+64.00		PRIVATE ENTRANCE ON RT.	73.02				210.95	0.08	16.88									26.00	210.95	220.00	23.20		26.20
108+00.00		PARKING LOT ON RT.	67.04				879.40	0.08	70.35						879.40	440.00	193.47	VAR.	879.40	220.00	96.73		
109+16.00		PRIVATE ENTRANCE ON RT.	72.83				449.01	0.08	35.92						449.01	440.00	98.78	VAR.	449.01	220.00	49.39		
109+35.00	110+65.00	MYERS	130.00							VAR.	414.51	770.00	159.59	VAR.	414.51	330.00	68.39	VAR.	414.51	220.00	45.60		
110+65.00	111+00.00	MYERS	35.00			VAR.	90.11	0.16	14.42	VAR.	90.11	770.00	34.69	VAR.	90.11	330.00	14.87	VAR.	90.11	220.00	9.91		
111+00.00	111+50.00	MYERS	50.00			22.00	122.22	0.16	19.56	22.00	122.22	770.00	47.05	22.00	122.22	330.00	20.17	22.00	122.22	220.00	13.44		
111+09.00		PRIVATE ENTRANCE ON LT.	48.93				163.94	0.08	13.12									VAR.	163.94	220.00	18.03		29.58
111+14.00		PRIVATE ENTRANCE ON RT.	29.50				87.66	0.08	7.01									VAR.	87.66	220.00	9.64		
111+50.00	113+37.00	MYERS	187.00			22.00	457.11	0.08	36.57									22.00	457.11	220.00	50.28		
111+93.00		PRIVATE ENTRANCE ON RT.	68.13				483.88	0.08	38.71									VAR.	483.88	220.00	53.23		
112+51.00		PRIVATE ENTRANCE ON RT.	70.33				101.48	0.08	8.12									VAR.	101.48	220.00	11.16		
113+27.00		PEDESTRIAN WALK PATH ON RT.	35.35				42.87	0.08	3.43									VAR.	42.87	220.00	4.72		
113+37.00	114+44.72	MYERS	107.72	43.00	46.32	30.00	359.07	0.08	28.73									30.00	359.07	220.00	39.50		
113+54.00		PEDESTRIAN WALK PATH ON LT.	12.51				27.60	0.08	2.21									VAR.	27.60	220.00	3.04		
114+17.00		PRIVATE ENTRANCE ON LT.	61.64				184.64	0.08	14.77									VAR.	184.64	220.00	20.31		
114+44.72	115+23.96	MYERS TO ROUNDABOUT	79.24	43.00	34.07	VAR.	221.75	0.08	17.74									VAR.	312.59	220.00	34.38		
115+23.96	115+46.78	MYERS TO ROUNDABOUT	22.82			VAR.	12.11	0.08	0.97									VAR.	12.11	220.00	1.33		
200+00.00	200+50.00	PIONEER	50.00	VAR.	26.72	VAR.	126.82	0.08	10.15									VAR.	192.25	220.00	21.15		
200+50.00	200+69.14	PIONEER	19.14	86.00	16.46	VAR.	53.74	0.08	4.30									VAR.	86.85	220.00	9.55		
200+69.14	201+45.00	PIONEER	75.86	86.00	65.24	VAR.	148.72	VAR.	16.66	VAR.	59.47	770.00	22.90	VAR.	59.47	330.00	9.81	VAR.	324.86	220.00	35.73		
300+00.00	301+50.00	20TH	150.00	43.00	64.50	VAR.	471.71	0.16	75.47	VAR.	471.71	770.00	181.61	VAR.	471.71	330.00	77.83	VAR.	510.79	220.00	56.19		
301+50.00	302+03.93	20TH	53.93	VAR.	4.02													VAR.	172.51	220.00	18.98		
301+72.00		PRIVATE ENTRANCE ON RT.	274.00	75.75	207.37													VAR.	507.84	220.00	55.86		
400+00.00	401+50.00	ROUNDABOUT	VAR.			20.00	281.65	0.16	45.06	20.00	281.65	770.00	108.44	20.00	281.65	330.00	46.47	20.00	281.65	220.00	30.98		
401+50.00	403+15.00	ROUNDABOUT	VAR.			20.00	309.82	0.08	24.79									20.00	309.82	220.00	34.08		
403+15.00	404+05.27	ROUNDABOUT	VAR.			20.00	169.49	0.16	27.12	20.00	169.49	770.00	65.25	VAR.	169.49	330.00	27.97	20.00	169.49	220.00	18.64		
400+00.00	404+05.27	ROUNDABOUT - TRUCK APRON	VAR.							43.75	668.13	440.00	146.99									668.1	
500+00.00	500+49.00	SIDNEY	49.00			VAR.	232.64	0.17	39.55	VAR.	232.64	770.00	89.57	VAR.	232.64	330.00	38.39	VAR.	223.41	220.00	24.58		
500+49.00	500+69.18	SIDNEY	20.18			VAR.	68.27	0.17	11.61	VAR.	68.27	VAR.	13.93	VAR.	68.27	VAR.	5.94	VAR.	68.27	220.00	7.51		
500+65.00		PRIVATE ENTANCE ON LT.	36.50																				6.06
600+00.00	601+15.00	STUBOUT	115.00			VAR.	361.28	0.17	61.42	VAR.	361.28	770.00	139.09	VAR.	361.28	330.00	59.61	VAR.	511.93	220.00	56.31		
ADDITIONAL FOR GRADE RAISE AND LEVELING																							
91+36.90	100+00.00	MYERS - LEVELING	863.10			VAR.	2660.14	0.08	212.81												123.12		
98+17.00		CHANEY - LEVELING	73.36			VAR.	211.98	0.08	16.96												20.75		
99+12.00		CHANEY - LEVELING	110.95			VAR.	345.04	0.08	27.60												49.44		
100+00.00	114+44.72	MYERS - LEVELING	1444.72			VAR.	874.25	0.08	69.94								179.89				15.55		
106+64.00		PRIVATE ENTRANCE ON RT. - LEVELING	29.60			VAR.	93.34	0.08	7.47												21.12		
107+64.00		PRIVATE ENTRANCE ON RT. - LEVELING	73.02			VAR.	188.04	0.08	15.04												58.20		
108+00.00		PARKING LOT ON RT. - LEVELING	67.04			VAR.	85.39	0.08	6.83										VAR.		35.64		
111+09.00		PRIVATE ENTRANCE ON LT. - LEVELING	48.93			VAR.	163.94	0.08	13.12												77.00		
111+93.00		PRIVATE ENTRANCE ON RT. - LEVELING	68.13			VAR.	483.88	0.08	38.71												74.62		
112+51.00		PRIVATE ENTRANCE ON RT. - LEVELING	70.33			VAR.	54.00	0.08	4.32												3.34		
113+27.00		PEDESTRIAN WALK PATH ON RT. - LEVELING	35.35			VAR.	26.53	0.08	2.12												2.27		
114+17.00		PRIVATE ENTRANCE ON LT. - LEVELING	61.64			VAR.	104.43	0.08	8.35												25.00		
114+44.72	115+46.88	MYERS TO ROUNDABOUT - GRADE RAISE	102.16			VAR.	328.29	0.08	26.26					VAR.	328.29	VAR.	266.93						
200+00.00	200+50.00	PIONEER - LEVELING	50.00			VAR.	83.17	0.08	6.65												4.11		
200+50.00	201+45.00	PIONEER - GRADE RAISE	95.00			VAR.	285.62	0.08	22.85					VAR.	285.62	VAR.	120.33						
301+50.00	302+03.93	20TH - LEVELING	53.93			VAR.	51.94	0.08	4.16												1.39		
401+50.00	402+05.00	ROUNDABOUT - GRADE RAISE AND LEVELING	55.00			VAR.	91.33	0.08	7.31					VAR.	44.22	VAR.	10.05	VAR.	47.11	VAR.	3.38		
402+05.00	403+15.00	ROUNDABOUT - GRADE RAISE	VAR.			VAR.	214.56	0.08	17.16					VAR.	214.56	VAR.	165.07						
400+00.00	404+05.27	ROUNDABOUT - TRUCK APRON GRADE RAISE	VAR.			VAR.	428.14	0.08	34.25	VAR.	428.14	VAR.	602.80										
ADDITIONAL FOR MAINTENANCE OF TRAFFIC																							
AS DIRECTED					100.00																100.00		
TOTALS:					564.70				2217.11				2740.94				1943.51				2522.61	668.1	293.32
USE:					**565**				**2217**				**2741**				**1944**				**2523**	**668**	**293.32**

BASIS OF ESTIMATE:

TACK COAT 0.08 GAL. PER SQ. YD. (TYPICAL)

VOLUME CONTROL:

ASPHALT BINDER (PG 76-22) IN ACHM BASE COURSE (1 1/2") 5.9%

MINERAL AGGREGATE IN ACHM BASE COURSE (1 1/2") 94.1%

ASPHALT BINDER (PG 76-22) IN ACHM BINDER COURSE (1") 4.7%

MINERAL AGGREGATE IN ACHM BINDER COURSE (1") 95.3%

ASPHALT BINDER (PG 76-22) IN ACHM SURFACE COURSE (1/2") 4.3%

MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2") 95.7%

NOTE: RATES MAY BE MODIFIED IF AND WHERE DIRECTED BY THE ENGINEER. SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING

QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	45	104

4 QUANTITIES

CONCRETE CURB AND GUTTER

FROM	TO	LOCATION	AGGREGATE BASE COURSE (CLASS 7)	TYPE A (1 '6")
STATION			TON	LIN. FT.
93+75	93+85	PRIVATE ENTRANCE ON LT.	2.24	23
94+18	94+29	PRIVATE ENTRANCE ON LT.	2.34	24
100+42	102+27.33	MYERS ON RT.	18.04	185
102+27.33	104+75	MYERS ON LT. AND RT.	96.33	494
104+75	105+24	PRIVATE ENTRANCE ON RT.	7.51	77
104+75	106+00	MYERS ON LT.	12.19	125
105+50	106+00	PRIVATE ENTRANCE ON RT.	7.51	77
106+00	108+75	MYERS ON LT. AND RT.	108.03	554
108+75	108+80.64	MYERS ON LT.	0.59	6
108+80.64	109+50.00	MYERS ON LT.	6.04	69
109+50	110+65	MYERS ON LT. AND RT.	42.74	231
110+65	110+80	MYERS ON LT. AND RT.	5.85	30
110+80	111+46	MYERS ON LT.	6.34	65
110+80	111+04	PRIVATE ENTRANCE ON RT.	4.00	41
111+24	111+46	PRIVATE ENTRANCE ON RT.	4.00	41
111+46	111+67	MYERS ON LT. AND RT.	8.58	44
111+67	112+80	MYERS ON LT.	11.02	113
111+67	111+79	COMMUNITY GARDEN PARKING LOT	7.22	74
112+04	112+38	COMMUNITY GARDEN PARKING LOT PLANTER	7.80	80
112+61	112+80	REPAIR OF PLANTER NEAR COMMUNITY GARDEN FOR DROP INLET INSTALLATION	7.61	78
112+80	113+08	MYERS ON LT. AND RT.	10.92	56
113+08	113+39	MYERS ON LT.	3.02	31
113+75	113+86	MYERS ON LT.	1.07	11
113+86	114+05	BATESVILLE AQUATIC CENTER DRIVE ON LT.	6.34	65
114+27	114+50	BATESVILLE AQUATIC CENTER DRIVE ON LT.	7.31	75
114+50	115+46.88	MYERS ON LT.	9.85	101
300+00	302+04	20TH ON LT.	20.28	208
500+07	500+59	SIDNEY ON LT.	5.85	60
500+00	500+69.18	SIDNEY ON RT.	8.19	84
TOTALS:			438.81	3122
USE:			439	3122

BASIS OF ESTIMATE

AGGREGATE BASE COURSE (CLASS 7) 9.75 TON / STA. (EACH SIDE)
AGGREGATE BASE COURSE (CLASS 7) STA. 108+80.64 TO 109+35.00 8.75 TON / STA. (LEFT SIDE)
AGGREGATE BASE COURSE (CLASS 7) STA. 108+80.64 TO 109+35.00 9.75 TON / STA. (RIGHT SIDE)

CONCRETE CURB

FROM	TO	LOCATION	TYPE B
STATION			LIN. FT.
400+00	404+05.27	CURB FOR MOUNTABLE TRUCK APRON IN ROUNDABOUT	280
TOTAL:			280

WHEELCHAIR RAMPS

STATION	LOCATION	TYPE 1
		SQ. YD.
113+39	MYERS ON LT.	3.56
TOTAL:		3.56
USE:		4

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING

CONCRETE WALKS

STATION	STATION	DESCRIPTION	LENGTH	WIDTH	CONCRETE WALKS
			LIN. FT.		SQ. YD.
109+58		INDEPENDENCE COUNTY SHERIFF'S DEPARTMENT PARKING LOT ON RT.	51	5.00	28
111+17	111+23	REPAIR OVER REMOVAL AND DISPOSAL OF PIPE CULVERT	VAR.	VAR.	2
111+40	113+39	MYERS ON LT.	199	4.00	88
111+77	112+60	COMMUNITY GARDEN PARKING LOT	83	5.00	46
TOTAL:					164

STRUCTURES

STATION	DESCRIPTION	PIPE CULVERT STORM DRAIN (DISCHARGE PIPES LENGTHS) ALTERNATES 1, 2, & 3												CLASS V	SIDE DRAINS	DROP INLETS			FLARED END SECTIONS FOR R.C. PIPE CULVERTS			CONCRETE SPILLWAY (TYPE A)	SELECTED PIPE BEDDING*	SOLID SODDING	WATER
		CLASS III	CLASS IV	CLASS V	CLASS III	CLASS IV	CLASS V	CLASS III	CLASS IV	CLASS V	CLASS III	CLASS IV	CLASS V			TYPE		EXTENSION							
		18"	18"	18"	22" X 14"	22" X 14"	22" X 14"	24"	24"	24"	29" X 18"	29" X 18"	29" X 18"	24"	21" x 15"	MO	ST	4'	18"	22" x 14"	24"				
		LIN. FT.													LIN. FT.	EACH			EACH			EACH	CU. YD.	SQ. YD.	M. GAL.
100+75.00	4' MO WITH 4' EXTENSION ON RT.	118														1		1	1				2	7	0.1
102+00.00	4' MO WITH 4' EXTENSION ON RT.				122	122	122									1		1					2		
103+55.00	4' MO WITH 4' EXTENSION ON RT.	152														1		1					2		
103+55.00	3' X 3' ST ON LT.	32															1						2		
104+25.00	4' MO WITH 4' EXTENSION ON RT.	66														1		1					2		
104+72.00	3' X' ST ON LT.	32																					2		
104+72.00	4' MO WITH 4' EXTENSION ON RT.	43																1					2		
106+00.00	4' MO ON RT. WITH 4' EXTENSION ON RT.	124														1		1					2		
109+40.00	4' MO ON RT.				19	19	19									1							2		
109+50.00	3' X 3' ST ON RT.	46															1						2		
110+00.00	4' MO WITH 4' EXTENSION ON RT.							72	72	72						1		1					2		
110+00.00	3' X 3' ST ON LT.	27															1						2		
110+75.00	4' MO WITH 4' EXTENSION ON RT.													91		1		1					2		
111+69.00	4' MO WITH 4' EXTENSION ON RT.	21*									109	109	109			1		1	1				2	8	0.2
111+70.00	4' MO WITH 4' EXTENSION ON LT.							13	13	13						1		1				1	2		
112+17.00	4' MO WITH 4' EXTENSION ON LT.	12														1		2				1	2		
112+63.00	4' MO IN PRIVATE ENTRANCE ON RT.							45	45	45						1					1		2	12	0.2
112+95.00	4' MO WITH 4' EXTENSION ON LT.							12	12	12						1		1				1	2		
114+03.00	4' MO IN PRIVATE ENTRANCE ON LT.	17														1			1				2	7	0.1
114+17.00	SIDE DRAIN ON LT.														48								2		
115+28.00	5' MO WITH 4' EXTENSION ON LT.				3	3	3											1		1			2	7	0.1
500+14.00	4' MO WITH 4' EXTENSION ON LT.	99														1		1	1				2	7	0.1
500+29.00	4' MO WITH 4' EXTENSION ON LT.	13														1		1					2		
500+29.00	4' MO WITH 4' EXTENSION ON RT.	42														1		2					2		
TOTALS:		844	844	844	144	144	144	142	142	142	109	109	109	91	48	17	3	18	4	1	1	3	48	48	0.8

WATER..... 12.6 GALLONS PER SQ. YD.

*NOTE: QUANTITY ESTIMATED. TO BE USED IF AND WHERE AS DIRECTED BY THE ENGINEER. SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS.

QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	46	104

4 QUANTITIES

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 11240 04/17/25 BRYAN FREELING

PAVEMENT MARKING

STATION FROM	STATION TO	DESCRIPTION	REMOVAL OF PERMANENT PAVEMENT MARKINGS	REFLECTORIZED PAINT PAVEMENT MARKING YELLOW 4"	REFLECTORIZED PAINT PAVEMENT MARKING WHITE 4"	12"	YIELD LINE	WORD	ARROW	WHEELCHAIR
			LIN. FT.	LIN. FT.	LIN. FT.			EACH		
91+36.90	93+00	MYERS		266	439	62		1	1	
93+00	101+22	MYERS		2437	1835					
101+22	102+22	MYERS			100					
102+22	111+00	MYERS		2234	1760					
106+40	109+50	U OF A AND SHERIFF'S PARKING LOT		1351						1
111+00	115+46.88	MYERS		994	1104	90	14	3		
111+80	112+60	COMMUNITY GARDEN		120						1
199+00	200+00	PIONEER WHITE LANE LINE ON RT.	95							
199+00	201+45	PIONEER		358	710	26	14	1		
300+00	302+03.93	20TH		494	522		14	1		
400+00	403+67.57	ROUNDABOUT		280	122				3	
500+00	500+69.78	SIDNEY		138	226					
600+00	601+15	STUB OUT		288	610		14	1		
TOTALS:			95	8960	7428	178	56	7	4	2

NOTE: THIS IS A HIGH VOLUME ROAD AS DEFINED IN SECTION 604.03 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2014.

REMOVAL AND DISPOSAL OF ITEMS

FROM STATION	TO STATION	DESCRIPTION	CURB AND GUTTER	CONCRETE WALK	CONCRETE DRIVEWAYS	PIPE CULVERTS	DROP INLETS	CONCRETE SPILLWAY	SIGNS	CONCRETE ISLANDS
			LIN. FT.	SQ. YD.	SQ. YD.	EACH	EACH	EACH	EACH	SQ. YD.
93+63	93+85	PRIVATE ENTRANCE ON LT.	29							
94+18	94+36	PRIVATE ENTRANCE ON LT.	27							
97+57	97+83	PRIVATE ENTRANCE ON RT.			76					
98+00		CHANEY ON LT.								8
98+71	99+28	PRIVATE ENTRANCE ON RT.			109					
99+30		CHANEY ON RT.								6
100+35		SIDE DRAIN ON MYERS ON LT.				1				
100+38	101+32	PRIVATE ENTRANCE ON LT.			55					
103+34		SIDE DRAIN ON MYERS ON LT.				1				
109+35	109+55	SHERRIFS PARKING LOT	84							
109+58		INDEPENDENCE COUNTY SHERIFF'S DEPARTMENT PARKING LOT		29						
111+04	111+05	EMERGENCY SERVICES PARKING LOT	11							
111+07	111+54	PRIVATE ENTRANCE TO CEMETERY ON LT.	60							
111+17		PRIVATE ENTRANCE TO CEMETERY ON LT.				1				
111+22	111+45	EMERGENCY SERVICES PARKING LOT ON RT.	42							
111+45	111+73	MYERS ON RT.	28							
111+54	113+39	MYERS ON LT.	185							
111+54	113+39	MYERS ON LT.		82						
111+73	112+75	COMMUNITY GARDEN ON RT.	238							
111+77	112+61	COMMUNITY GARDEN PARKING LOT		46						
112+03	112+38	PLANTER ON RT.	38							
112+70	112+72	PLANTER NEAR NEAR COMMUNITY GARDEN	10							
112+75	113+09	MYERS ROAD ON RT.	34							
112+95		MYERS ROAD ON LT.						1		
112+98	113+14	PEDESTRIAN PATH ON RT.	29							
113+90	114+07	PRIVATE ENTRANCE TO BATESVILLE AQUATIC CENTER ON LT.	63							
114+26	114+45	PRIVATE ENTRANCE TO BATESVILLE AQUATIC CENTER ON LT.	70							
114+45	115+46.88	MYERS ON LT.	106							
115+47		MYERS ON RT. STOP AND YIELD SIGN							2	
119+57		PIONEER ON RT. STOP AHEAD SIGN							1	
201+45		PIONEER ON RT. STOP SIGN							1	
300+00	302+04	20TH STREET ON LT.	206							
300+59		20TH STREET ON LT. STOP SIGN							1	
500+15		SIDNEY								8
500+10	500+61	SIDNEY ON LT.	55							
500+23		DROP INLET ON SIDNEY ON LT.					1			
500+25		CROSS DRAIN ON SIDNEY				1				
500+65		PRIVATE ENTRANCE ON LT.			6					
TOTALS:			1315	157	246	4	1	1	5	22

CONCRETE ISLAND

FROM STATION	TO STATION	LOCATION	CURB FACE TYPE	CONCRETE ISLAND LENGTH FEET	CONCRETE ISLAND SQ. YD.
98+00.00		CHANEY	TYPE B	11.75	8
99+30.00		CHANEY	TYPE B	9.81	7
114+60.91	115+21.69	MYERS	TYPE B	60.78	96
200+68.68	201+22.82	PIONEER	TYPE B	54.14	62
300+31.27	300+95.93	20TH	TYPE B	64.66	82
500+10.00		SIDNEY	TYPE B	12.63	9
600+19.95	600+71.37	FUTURE ROAD	TYPE B	51.42	56
TOTAL:					320

RETAINING WALL

FROM STATION	TO STATION	DESCRIPTION	CLASS S CONCRETE-ROADWAY	REINFORCING STEEL-ROADWAY (GRADE 60)	HAND RAILING
			CU. YD.	POUND	LIN. FT.
108+80.64	110+65.00	6' CONCRETE RETAINING WALL ON MYERS ON LT.	62.73	5021	185
108+80.64	110+65.00	ADDITIONAL CONCRETE BETWEEN CURB AND WALL FACE	7.03		
TOTALS:			69.76	5021	185

PAVEMENT REPAIR OVER CULVERTS (ASPHALT)

STATION	DESCRIPTION	WIDTH	LENGTH	TON
		LINEAR FOOT		
112+77	PIPE CULVERT FOR DROP INLET AT 112+64 ON RT	10	12	1.5
TOTAL:				1.5
USE:				2

TRENCHING AND SHOULDER PREPARATION

STATION	STATION	STATIONS
101+00	101+50	1
TOTAL:		1

GATES REMOVED AND RECONSTRUCTED

STATION	DESCRIPTION	GATES REMOVED AND RECONSTRUCTED
		EACH
200+75	ROAD CLOSED DUE TO HIGH WATER. RELOCATE TO 200+00 ON PIONEER	2
TOTAL:		2

QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
05-09-2025				6	ARK.			
05-13-2025				JOB NO.		C32005	47	104

4 SUMMARY OF QUANTITIES AND REVISIONS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
05/13/25
BRYAN FREELING

SUMMARY OF QUANTITIES

	ITEM NO.	ITEM		QUANTITY	UNIT
	201	CLEARING		11	STATION
	201	GRUBBING		11	STATION
	202	REMOVAL AND DISPOSAL OF CURB AND GUTTER		1315	LIN. FT.
	202	REMOVAL AND DISPOSAL OF CONCRETE ISLANDS		22	SQ. YD.
	202	REMOVAL AND DISPOSAL OF CONCRETE DRIVEWAYS		246	SQ. YD.
	202	REMOVAL AND DISPOSAL OF DROP INLETS		1	EACH
	202	REMOVAL AND DISPOSAL OF PIPE CULVERTS		4	EACH
	202	REMOVAL AND DISPOSAL OF CONCRETE WALKS		157	SQ. YD.
	202	REMOVAL AND DISPOSAL OF CONCRETE SPILLWAY		1	EACH
	202	REMOVAL AND DISPOSAL OF SIGNS		5	EACH
	208	GATES REMOVED AND RECONSTRUCTED		2	EACH
	SS & 210	UNCLASSIFIED EXCAVATION		3423	CU. YD.
	SP & 210	COMPACTED EMBANKMENT		4365	CU. YD.
	215	TRENCHING AND SHOULDER PREPARATION		1	STATION
	SS & 303	AGGREGATE BASE COURSE (CLASS 7)		1004	TON
	SS & 401	TACK COAT		2217	GAL.
	SP, SS, & 405	MINERAL AGGREGATE IN ACHM BASE COURSE (1 1/2")		2579	TON
	SP, SS, & 405	ASPHALT BINDER (PG 76-22) IN ACHM BASE COURSE (1 1/2")		162	TON
	SP, SS, & 406	MINERAL AGGREGATE IN ACHM BINDER COURSE (1")		1853	TON
	SP, SS, & 406	ASPHALT BINDER (PG 76-22) IN ACHM BINDER COURSE (1")		91	TON
	SP, SS, & 407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")		2415	TON
	SP, SS, & 407	ASPHALT BINDER (PG 76-22) IN ACHM SURFACE COURSE (1/2")		108	TON
	412	COLD MILLING ASPHALT PAVEMENT		3424	SQ. YD.
	SP, SS, & 501	PORTLAND CEMENT CONCRETE PAVEMENT (8" UNIFORM THICKNESS)		668	SQ. YD.
	SS & 505	PORTLAND CEMENT CONCRETE DRIVEWAY		293.32	SQ. YD.
	601	MOBILIZATION		1.00	LUMP SUM
	SP & 602	FURNISHING FIELD OFFICE		1	EACH
	SP & 603	MAINTENANCE OF TRAFFIC		1.00	LUMP SUM
	SS & 604	SIGNS		397	SQ. FT.
	SS & 604	TRAFFIC DRUMS		100	EACH
	604	REMOVAL OF PERMANENT PAVEMENT MARKINGS		95	LIN. FT.
*	SS & 606	18" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	(ALTERNATE NO. 1)	844	LIN. FT.
*	SS & 606	18" REINFORCED CONCRETE PIPE CULVERTS (CLASS IV)	(ALTERNATE NO. 2)	844	LIN. FT.
*	SS & 606	18" REINFORCED CONCRETE PIPE CULVERTS (CLASS V)	(ALTERNATE NO. 3)	844	LIN. FT.
*	SS & 606	24" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	(ALTERNATE NO. 1)	142	LIN. FT.
*	SS & 606	24" REINFORCED CONCRETE PIPE CULVERTS (CLASS IV)	(ALTERNATE NO. 2)	142	LIN. FT.
*	SS & 606	24" REINFORCED CONCRETE PIPE CULVERTS (CLASS V)	(ALTERNATE NO. 3)	142	LIN. FT.
	SS & 606	24" REINFORCED CONCRETE PIPE CULVERTS (CLASS V)		91	LIN. FT.
*	SS & 606	22" X 14" REINFORCED CONCRETE ARCH PIPE CULVERTS (CLASS III)	(ALTERNATE NO. 1)	144	LIN. FT.
*	SS & 606	22" X 14" REINFORCED CONCRETE ARCH PIPE CULVERTS (CLASS V)	(ALTERNATE NO. 2)	144	LIN. FT.
*	SS & 606	22" X 14" REINFORCED CONCRETE ARCH PIPE CULVERTS (CLASS IV)	(ALTERNATE NO. 3)	144	LIN. FT.
*	SS & 606	29" X 18" REINFORCED CONCRETE ARCH PIPE CULVERTS (CLASS III)	(ALTERNATE NO. 1)	109	LIN. FT.
*	SS & 606	29" X 18" REINFORCED CONCRETE ARCH PIPE CULVERTS (CLASS IV)	(ALTERNATE NO. 2)	109	LIN. FT.
*	SS & 606	29" X 18" REINFORCED CONCRETE ARCH PIPE CULVERTS (CLASS V)	(ALTERNATE NO. 3)	109	LIN. FT.
	SS & 606	18" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS		4	EACH
	SS & 606	24" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS		1	EACH
	SS & 606	22" X 14" FLARED END SECTIONS FOR REINFORCED CONCRETE ARCH PIPE CULVERTS		1	EACH
	SS & 606	21" X 15" SIDE DRAIN		48	LIN. FT.
	606	SELECTED PIPE BEDDING		48	CU. YD.
	SS & 609	DROP INLETS (TYPE MO)		17	EACH
	SS & 609	DROP INLETS (TYPE ST)		3	EACH
	SS & 609	DROP INLET EXTENSIONS (4')		18	EACH
	614	CONCRETE SPILLWAY (TYPE A)		3	EACH
	SS & 615	PAVEMENT REPAIR OVER CULVERTS (ASPHALT)		2	TON
	620	WATER		46.6	M. GAL.
	621	SILT FENCE		4515	LIN. FT.
	621	SAND BAG DITCH CHECKS		286	BAG
	621	SEDIMENT REMOVAL AND DISPOSAL		567	CU. YD.
	621	ROCK DITCH CHECKS		39	CU. YD.
	SS & 621	FILTER SOCK (12")		284	LIN. FT.
	624	SOLID SODDING		3684	SQ. YD.
	SP, SS, & 632	CONCRETE ISLAND		320	SQ. YD.
	SP, SS, & 633	CONCRETE WALKS		164	SQ. YD.
	SS & 633	HAND RAILING		185	LIN. FT.
	SS & 634	CONCRETE CURB (TYPE B)		280	LIN. FT.
	SS & 634	CONCRETE COMBINATION CURB AND GUTTER (TYPE A) (1' 6")		3122	LIN. FT.
	635	ROADWAY CONSTRUCTION CONTROL		1.00	LUMP SUM
	641	WHEELCHAIR RAMPS (TYPE 1)		4	SQ. YD.
	718	REFLECTORIZED PAINT PAVEMENT MARKING WHITE (4")		7428	LIN. FT.
	718	REFLECTORIZED PAINT PAVEMENT MARKING WHITE (12")		178	LIN. FT.
	718	REFLECTORIZED PAINT PAVEMENT MARKING YELLOW (4")		8960	LIN. FT.
	718	REFLECTORIZED PAINT PAVEMENT MARKING (WORDS)		7	EACH
	718	REFLECTORIZED PAINT PAVEMENT MARKING (ARROWS)		4	EACH
	718	REFLECTORIZED PAINT PAVEMENT MARKING SYMBOLS (WHEELCHAIR)		2	EACH
	718	REFLECTORIZED PAINT PAVEMENT MARKING (YIELD LINE)		56	LIN. FT.
	SS & 726	STANDARD SIGN		96.58	SQ. FT.
	SS & 729	CHANNEL POST SIGN SUPPORT (TYPE A)		11	EACH
	SS & 802	CLASS S CONCRETE-ROADWAY		69.76	CU. YD.
	SS & 804	REINFORCING STEEL-ROADWAY (GRADE 60)		5021	POUND
	SS & 816	FILTER BLANKET		6	SQ. YD.
	SS & 816	DUMPED RIPRAP (GROUTED)		6	CU. YD.

* DENOTES ALTERNATE BID ITEMS

REVISIONS

DATE	REVISION	SHEET NUMBER
5/9/2025	ADDED MAINTENANCE OF TRAFFIC SP. ADDED WATERLINE AND SANITARY SEWER CALLOUTS.	3, 47, 56, 58, 60, 78, 79, 86, 87, 88, 91, & 92
5/13/2025	REVISED STORM WATER POLLUTION CONTROL SP.	47

SUMMARY OF QUANTITIES AND REVISIONS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	48	104

4 SURVEY CONTROL DETAILS

SURVEY CONTROL COORDINATES

Project Name: sC32005
Date: 10/19/2017
Coordinate System: ARKANSAS STATE PLANE - NORTH ZONE BASED ON GPS CONTROL,
PROJECTED TO GROUND.
Units: U.S. SURVEY FOOT

Point Name	Northing	Easting	Elev	Feature	Description
1	520328.0073	1418928.8281	270.419	CTL	STD. ArDOT MON. STAMPED PN: 1
2	520606.5344	1418915.4950	270.791	CTL	STD. ArDOT MON. STAMPED PN: 2
3	520392.2058	1419114.5832	266.983	CTL	STD. ArDOT MON. STAMPED PN: 3
4	520419.6894	1419525.7217	267.288	CTL	STD. ArDot MON. STAMPED PN: 4
5	520336.1799	1419983.2101	278.146	CTL	STD. ArDOT MON. STAMPED PN: 5
6	520363.5445	1420496.8509	299.183	CTL	STD. ArDOT MON. STAMPED PN: 6
7	520333.5404	1420913.9680	280.577	CTL	STD. ArDOT MON. STAMPED PN: 7
8	520481.5797	1421327.7557	301.453	CTL	STD. ArDOT MON. STAMPED PN: 8
9	520812.9601	1421589.4790	316.721	CTL	STD. ArDOT MON. STAMPED PN: 9
10	520220.4648	1421341.3418	286.535	CTL	STD. ArDOT MON. STAMPED PN: 10
100	519847.9759	1418865.0709	270.998	GPS	ArDOT GPS MON. 320021
101	518106.6716	1418944.6034	267.833	GPS	ArDOT GPS MON. 320021A
900	520484.8168	1418971.3185	260.827	TBM	SQUARE CUT IN NORTH END OF 30" RCP BATESVILLE
901	520372.8788	1420119.6522	284.527	TBM	SQ CUT IN EAST END CONCRETE AROUND BATESVILLE
902	520317.5676	1421364.8207	291.911	TBM	X CUT IN BOLT OF FIRE HYDRANT BATESVILLE
990	519841.3196	1418900.9748	271.670	BM	NGS BM C334

*Note - Rebar and Cap - Standard - 5/8" Rebar with 2" Aluminum Cap stamped
*(standard markings common to all caps), or as indicated
(other markings indicated in the point description of the individual point).
USE CAF = 1.0 FOR STAKEOUT FOR THIS PROJECT
A PROJECT CAF OF 0.999918449 HAS BEEN USED TO COMPUTE THE ABOVE GROUND COORDINATES.
THIS CAF IS INTENDED FOR USE WITHIN THE PROJECT LIMITS.
GRID DISTANCE = GROUND DISTANCE X CAF.
GRID COORDINATES ARE STORED UNDER FILE NAME sC32005gi.ctl
HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 88 POSITIONAL ACCURACY THIRD ORDER, UNLESS SPECIFIED OTHERWISE
AT A SPECIFIC POINT.

REFERENCE POINTS (1500 SERIES) ARE TO BE USED TO ESTABLISH CONTROL
IF THE PRIMARY CONTROL POINTS LISTED ABOVE HAVE BEEN DESTROYED.
REFERENCE POINTS ARE NOT TO BE USED FOR VERTICAL CONTROL

BASIS OF BEARING:
ARKANSAS STATE PLANE GRID BEARINGS - 0301-NORTH ZONE
DETERMINED FROM GPS CONTROL POINTS: 320003 - 320004 - 320021 - 320021A
CONVERGENCE ANGLE: 00-12-39 RIGHT AT LT: N 35-45-44 LG: W 091-38-17
GRID AZIMUTH = ASTRONOMICAL AZIMUTH - CONVERGENCE ANGLE.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING

POINT NAME	NORTHING	EASTING	DESCRIPTION	STATION
8000	520428.8110	1418906.1330	POB	91+36.90
8001	520425.5432	1419009.8222	PC	92+40.64
	520423.6614	1419069.5297	PI	93+00.38
8002	520419.6029	1419129.1288	PT	93+60.11
8003	520384.6553	1419642.3274	PC	98+74.49
	520383.2555	1419662.8837	PI	98+95.10
8004	520381.5971	1419683.4207	PT	99+15.70
8005	520366.6877	1419868.0488	PC	101+00.93
	520358.9053	1419964.4214	PI	101+97.62
8006	520355.7369	1420061.0557	PT	102+94.27
8007	520353.1391	1420140.2904	PC	103+73.54
	520351.9910	1420175.2803	PI	104+00.55
8008	520351.0584	1420210.2766	PT	104+43.56
8009	520350.4600	1420232.7159	PC	104+66.01
	520349.7215	1420260.4021	PI	104+93.70
8010	520348.6486	1420288.0774	PT	105+21.40
8011	520343.0285	1420433.0390	PC	106+66.47
	520339.6155	1420521.0740	PI	107+54.57
8012	520339.5879	1420609.1752	PT	108+42.65
8013	520339.5686	1420670.7341	PC	109+04.21
	520339.5387	1420766.3970	PI	109+99.87
8014	520345.0943	1420861.8984	PT	110+95.48
8015	520346.3716	1420883.8556	PC	111+17.47
	520348.3065	1420917.1164	PI	111+50.79
8016	520350.9178	1420950.3310	PT	111+84.11
8017	520352.3746	1420968.8612	PC	112+02.69
	520354.0208	1420989.7991	PI	112+23.70
8018	520355.3982	1421010.7564	PT	112+44.70
8019	520375.2161	1421312.2896	POE	115+46.88

CONSTRUCTION CENTERLINE COORDINATES FOR: PIONEER

POINT NAME	NORTHING	EASTING	DESCRIPTION	STATION
9000	520172.9133	1421313.7434	POB	200+00.00
9001	520316.2406	1421335.6889	POE	201+45.00

CONSTRUCTION CENTERLINE COORDINATES FOR: 20TH

POINT NAME	NORTHING	EASTING	DESCRIPTION	STATION
10000	520391.7326	1421340.1227	POB	300+00.00
10001	520680.3009	1421500.2112	POE	303+30.00

CONSTRUCTION CENTERLINE COORDINATES FOR: ROUNDABOUT

POINT NAME	NORTHING	EASTING	DESCRIPTION	STATION
11000	520341.3534	1421404.5588	POB/PC/PT/POE	400+00.00
11001	520356.1652	1421347.9650	CC	
11002	520370.9769	1421291.3712	PCC	401+83.78

CONSTRUCTION CENTERLINE COORDINATES FOR: SIDNEY

POINT NAME	NORTHING	EASTING	DESCRIPTION	STATION
12000	520361.4460	1419941.2255	PI	499+86.25
12001	520374.8736	1419941.9711	POB	500+00.00
12002	520414.5688	1419944.1754	PC	500+39.76
	520418.2584	1419944.3802	PI	500+43.45
12003	520421.9525	1419944.4708	PT	500+47.15
12004	520448.9742	1419945.1335	POE	500+74.18

CONSTRUCTION CENTERLINE COORDINATES FOR: STUB OJT

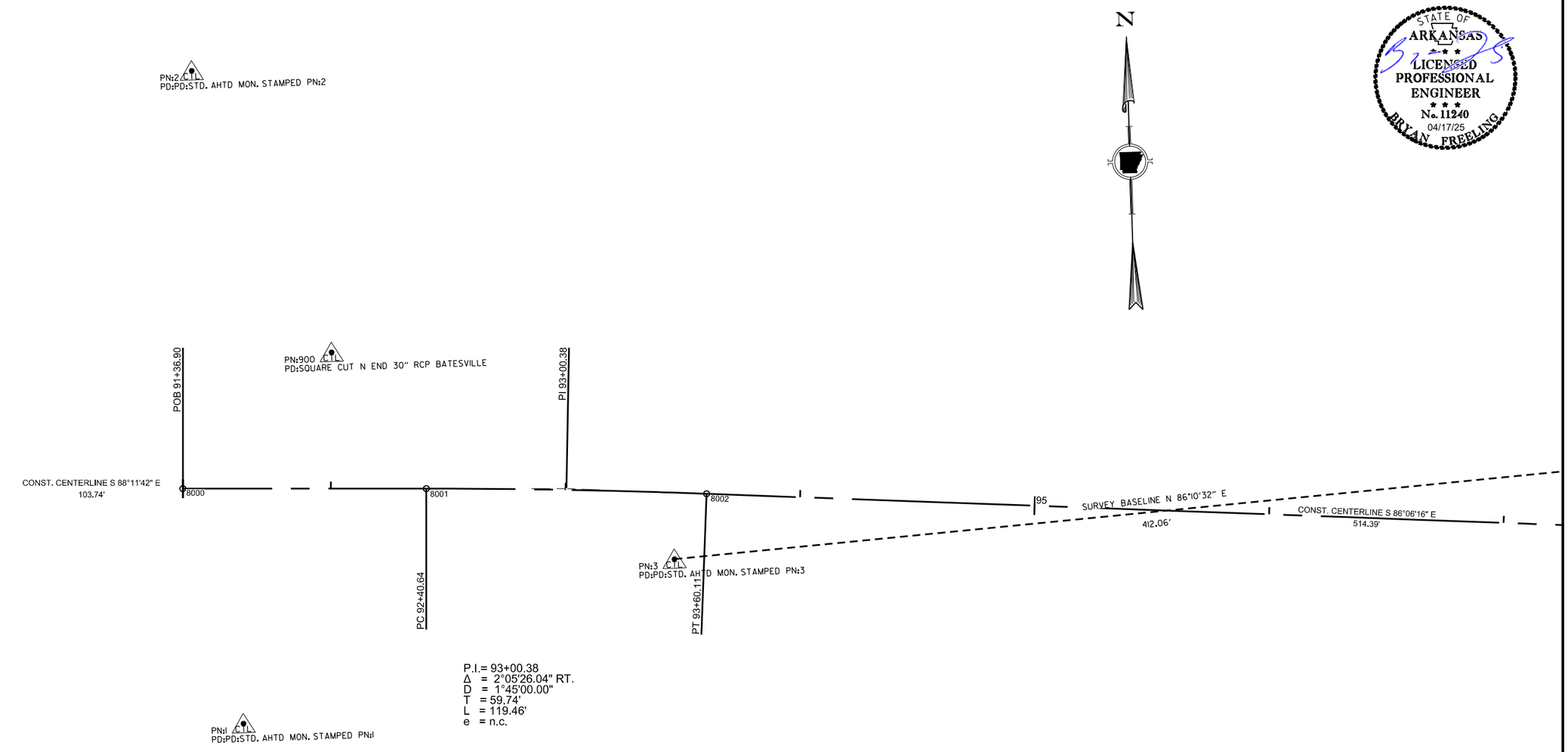
POINT NAME	NORTHING	EASTING	DESCRIPTION	STATION
13000	520341.1918	1421388.494	POB	600+00.00
13001	520313.4242	1421546.066	POE	601+60.00

SURVEY CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	49	104

4 SURVEY CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING



0 100 200

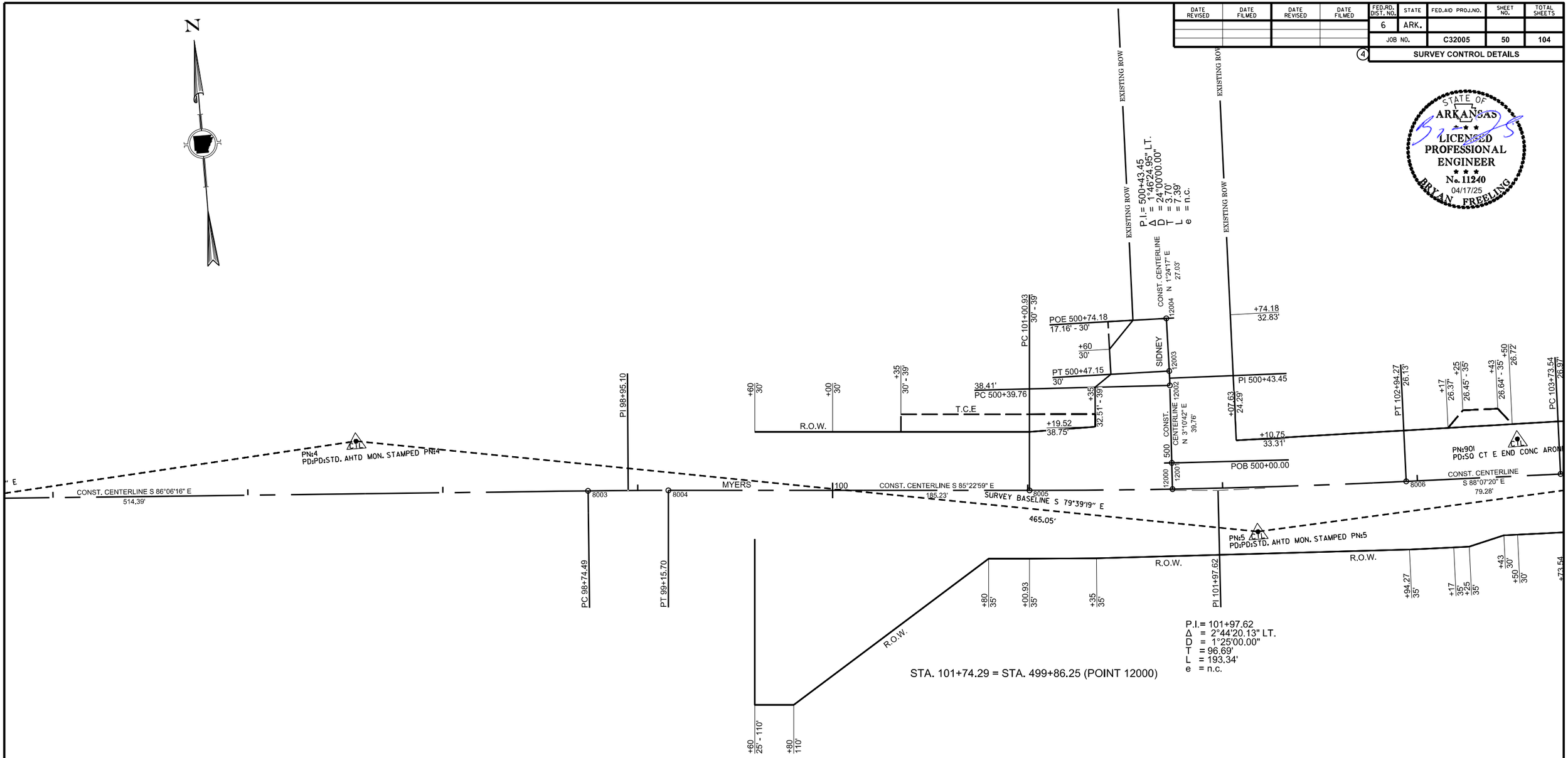
SCALE IN FEET

SURVEY CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	50	104

4 SURVEY CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING



SURVEY CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	51	104

4 SURVEY CONTROL DETAILS

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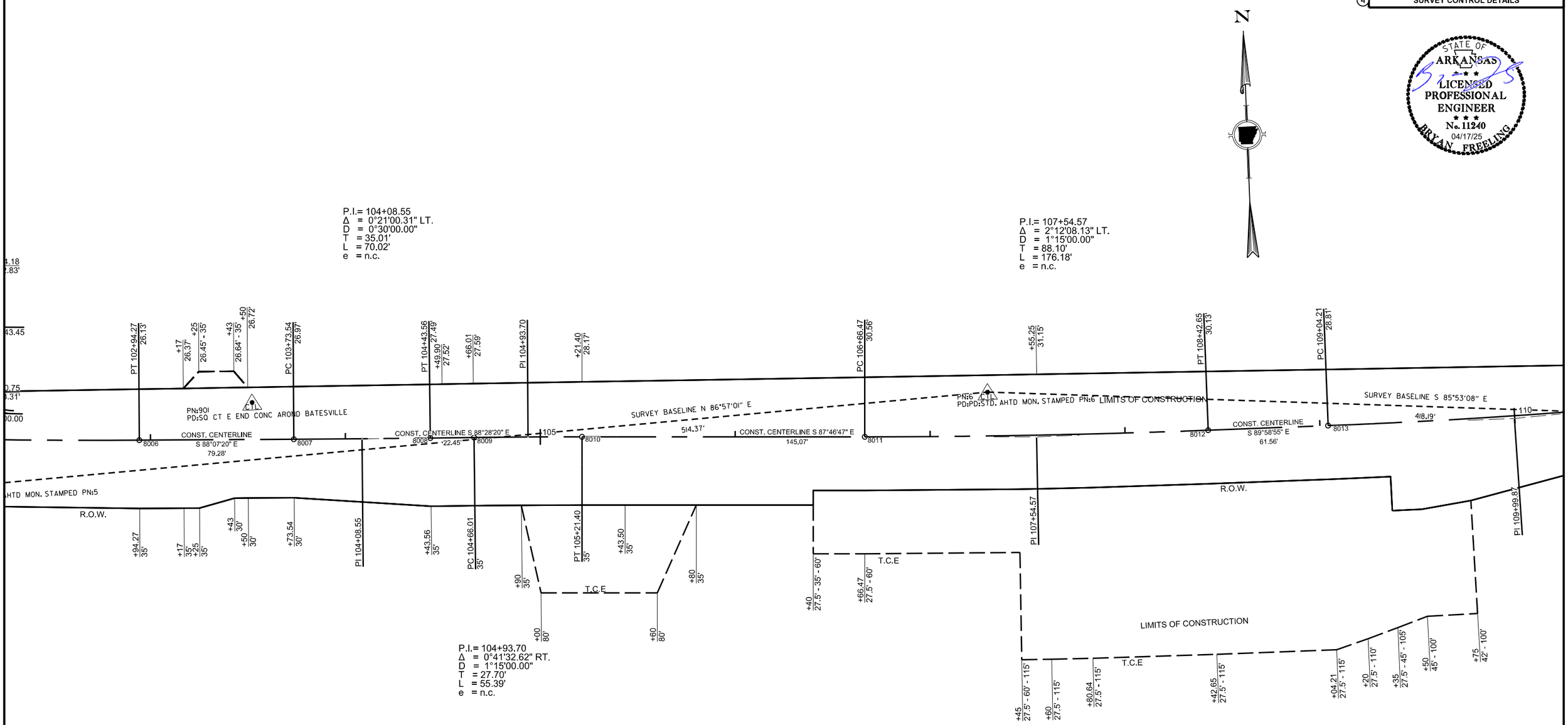
BRYAN FREELING



SURVEY CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	52	104

4 SURVEY CONTROL DETAILS

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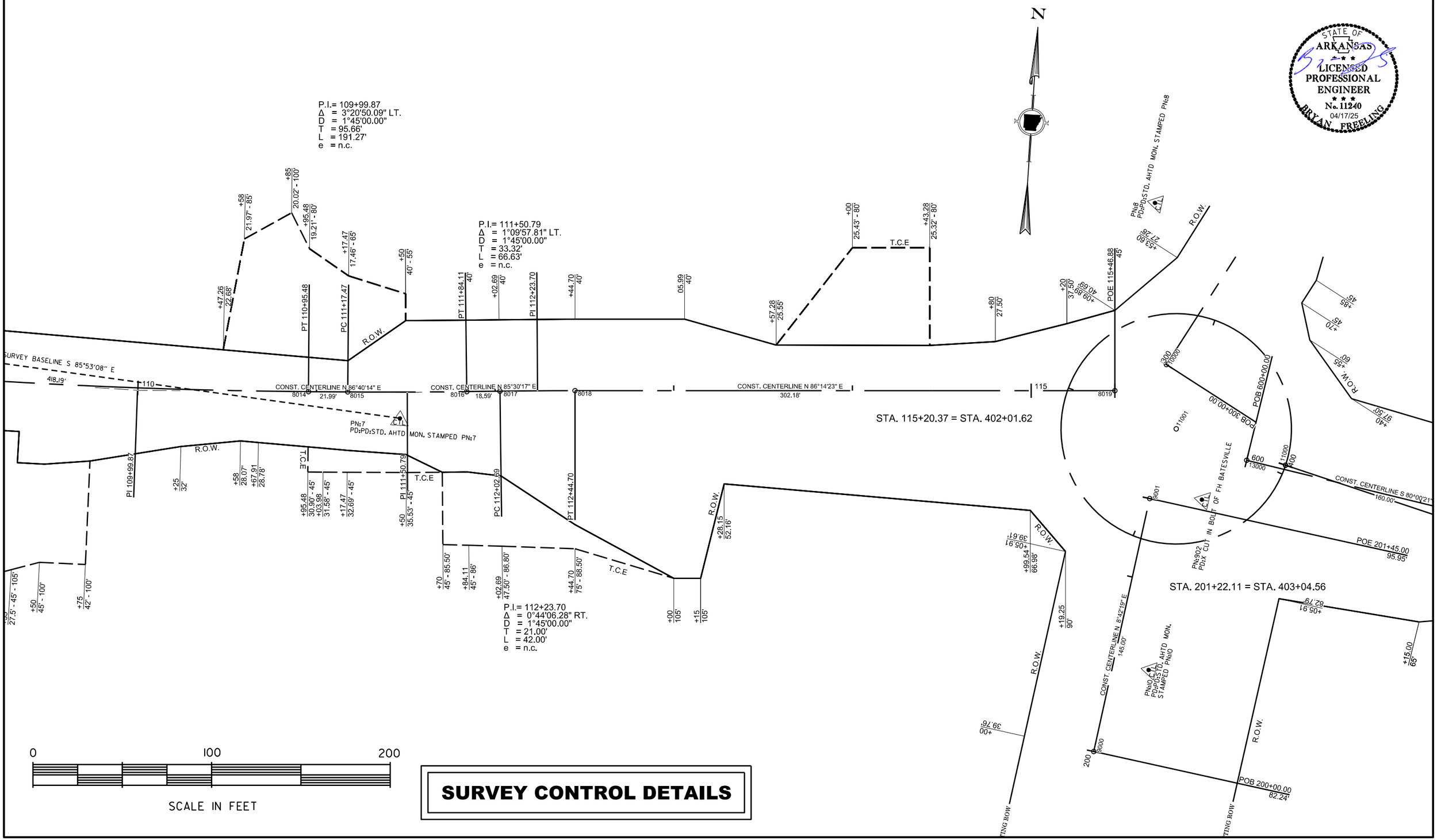
BRYAN FREELING



SURVEY CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	53	104

4 SURVEY CONTROL DETAILS

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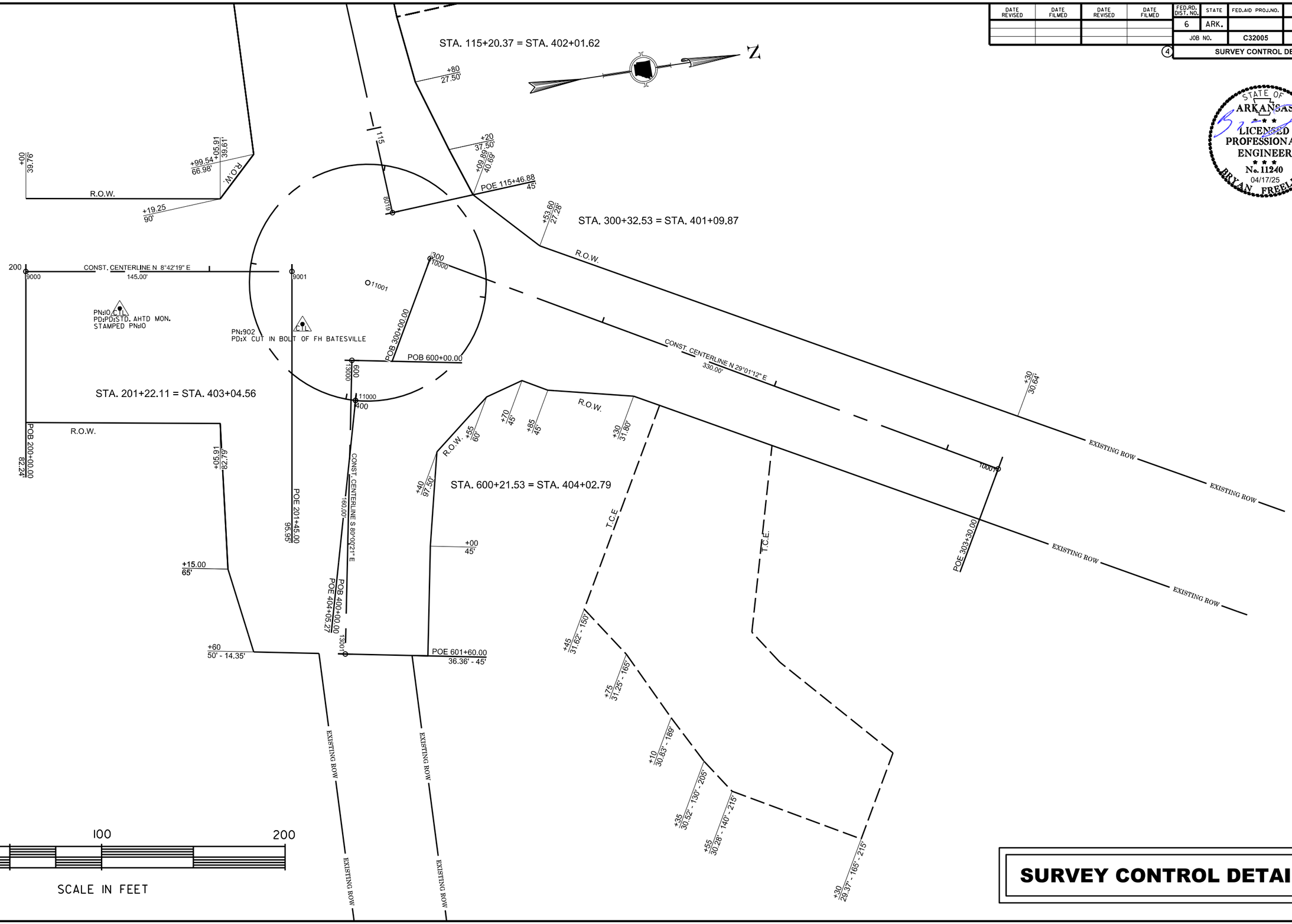

SURVEY CONTROL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	54	104

4 PLAN AND PROFILE SHEETS

EARTHWORK MYERS

UNCLASSIFIED EXCAVATION (NORMAL)	=	2203 CU. YD.
UNCLASSIFIED EXCAVATION (PRIVATE ENTRANCES/TURNOUTS)	=	440 CU. YD.
COMPACTED EMBANKMENT (NORMAL)	=	180 CU. YD.
COMPACTED EMBANKMENT (PRIVATE ENTRANCES / TURNOUTS)	=	202 CU. YD.

TRAFFIC CONTROL DEVICES

W20-1

STA.	91+36.90 (1500) NORTH	ON LT.	=	16.00	SQ. FT.
STA.	91+36.90 (1500) SOUTH	ON RT.	=	16.00	SQ. FT.
STA.	91+36.90 (1000) NORTH	ON LT.	=	16.00	SQ. FT.
STA.	91+36.90 (1000) SOUTH	ON RT.	=	16.00	SQ. FT.
STA.	91+36.90 (500) NORTH	ON LT.	=	16.00	SQ. FT.
STA.	91+36.90 (500) SOUTH	ON RT.	=	16.00	SQ. FT.
STA.	91+36.90 (AHEAD)	ON RT.	=	16.00	SQ. FT.
STA.	98+17 (AHEAD)	ON LT.	=	16.00	SQ. FT.
STA.	99+12 (AHEAD)	ON RT.	=	16.00	SQ. FT.

G20-2 (END ROAD WORK)

STA.	91+36.90	ON LT.	=	8.00	SQ. FT.
STA.	98+17	ON LT.	=	8.00	SQ. FT.
STA.	99+12	ON RT.	=	8.00	SQ. FT.

W21-5 (SHOULDER WORK)

STA.	113+37	ON RT.	=	6.25	SQ. FT.

TRAFFIC DRUMS

ENTIRE PROJECT	=	100	EACH

LEGEND

- POWER POLE
- COMBINATION POLE
- POLE W/GUY
- TELEPHONE RISER
- TELEPHONE POLE
- UNDERGROUND CABLE MKR.
- WATER METER
- WATER VALVE
- UTILITY POLE
- TANK
- GAS METER

STA.94+02
CONSTRUCT APPROACH ON LT.
COMPACTED EMBANKMENT = 1 CU. YD.

STA.94+86
CONSTRUCT APPROACH ON LT.
COMPACTED EMBANKMENT = 1 CU. YD.

CONCRETE COMBINATION CURB AND GUTTER

STA.	93+75	TO	93+85	ON LT.	23	LIN. FT.
STA.	94+18	TO	94+29	ON LT.	24	LIN. FT.

REMOVAL AND DISPOSAL OF CURB AND GUTTER

STA.	93+63	TO	93+85	ON LT.	29	LIN. FT.
STA.	94+18	TO	94+36	ON LT.	27	LIN. FT.

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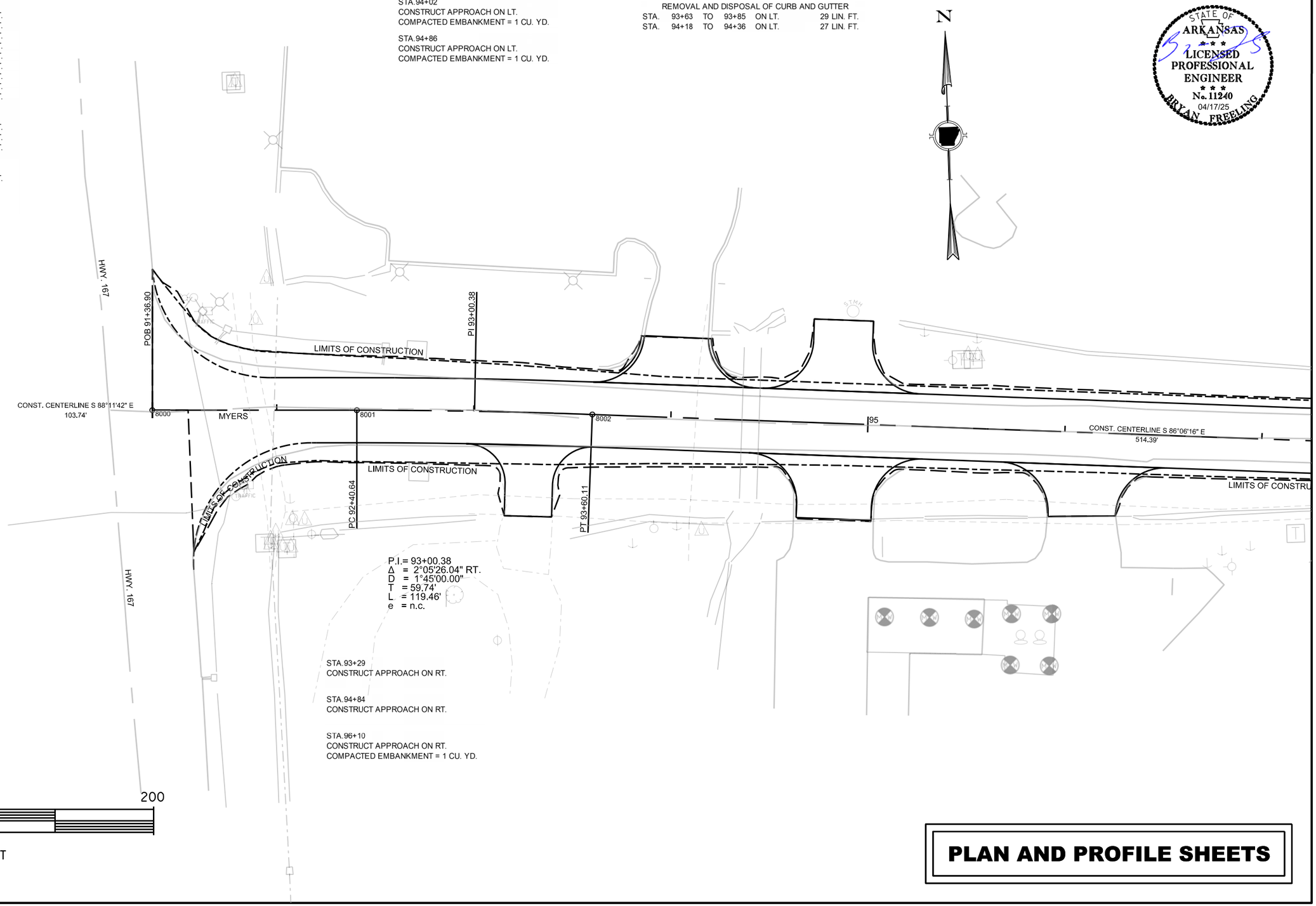
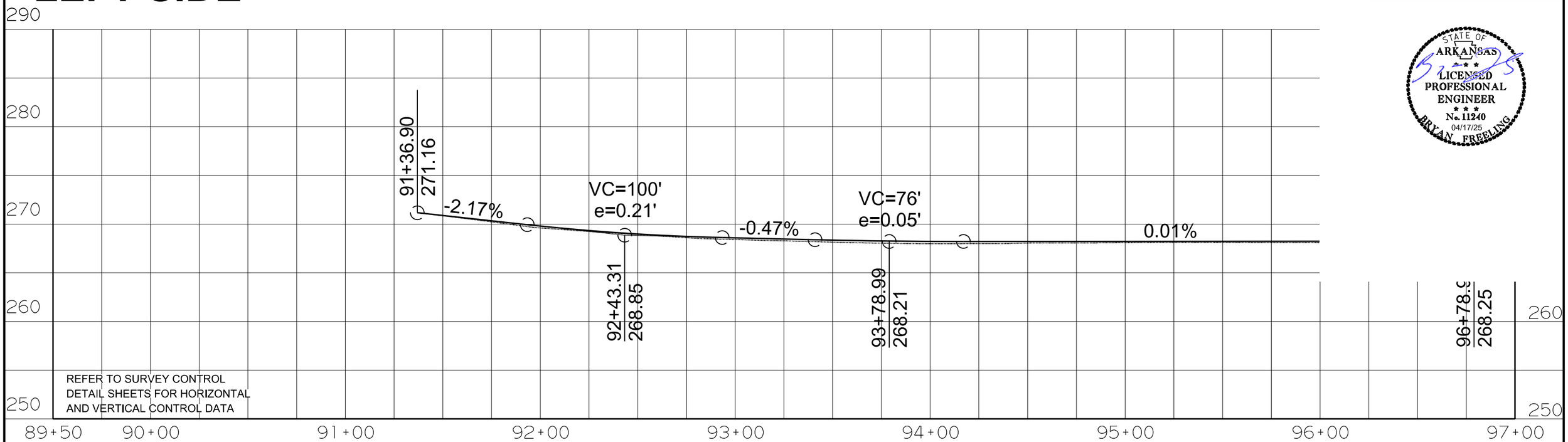


PLAN AND PROFILE SHEETS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	55	104

4 PLAN AND PROFILE SHEETS

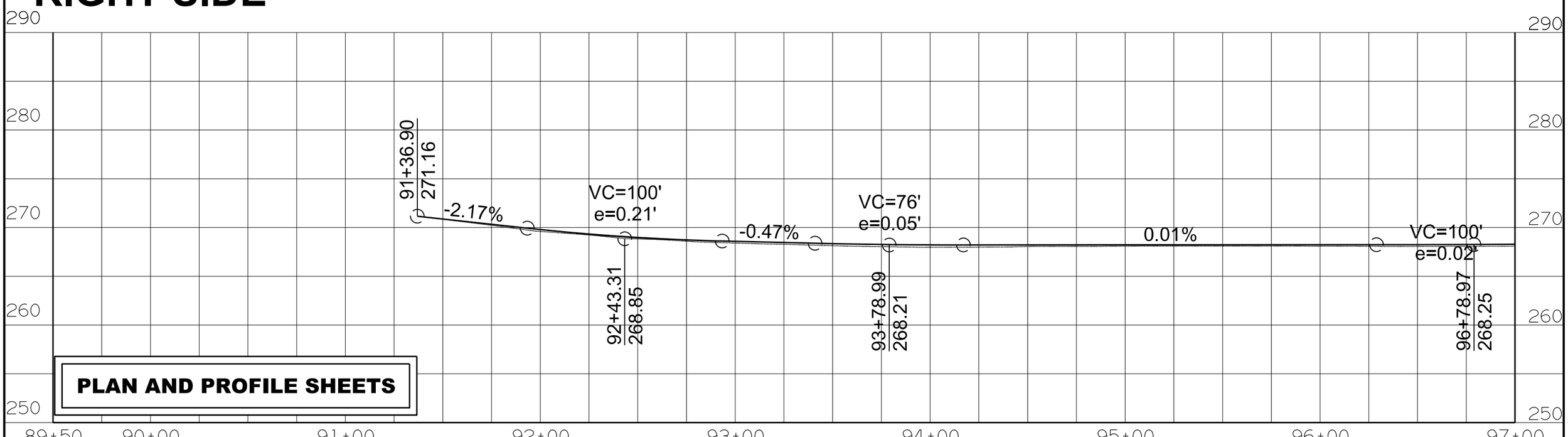
LEFT SIDE



REFER TO SURVEY CONTROL DETAIL SHEETS FOR HORIZONTAL AND VERTICAL CONTROL DATA

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING

RIGHT SIDE



PLAN AND PROFILE SHEETS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
05-09-2025				6	ARK.			
				JOB NO.		C32005	56	104

4 PLAN AND PROFILE SHEETS

STA.98+17
CONSTRUCT TURNOUT CHANEY ON LT.
COMPACTED EMBANKMENT = 4 CU. YD.

STA.99+12
CONSTRUCT TURNOUT CHANEY ON RT.
COMPACTED EMBANKMENT = 17 CU. YD.

STA.99+55
CONSTRUCT APPROACH ON LT.

CONRETE ISLAND

	DESCRIPTION	CURB FACE	CONCRETE
STA. 98+00	CHANEY	TYPE B	8 SQ. YD.
STA. 99+30	CHANEY	TYPE B	7 SQ. YD.

REMOVAL AND DISPOSAL OF CONCRETE DRIVEWAYS

STA. 97+57	TO	97+83	ON RT.	76 SQ. YD.
STA. 98+71	TO	99+28	ON RT.	109 SQ. YD.
STA. 100+38	TO	101+32	ON LT.	55 SQ. YD.

REMOVAL AND DISPOSAL OF CONCRETE ISLANDS.

STA.	98+00	ON LT.	8 SQ. YD.
STA.	99+30	ON RT.	6 SQ. YD.

STA.100+90
CONSTRUCT APPROACH ON LT.

STA.103+34
CONSTRUCT APPROACH ON LT.

CONCRETE COMBINATION CURB AND GUTTER

STA. 100+42	TO	102+27.33	ON RT.	185	LIN. FT.
STA. 102+27.33	TO	104+75	ON LT. AND RT.	494	LIN. FT.

TRENCHING AND SHOULDER PREPARATION

STA. 101+00	TO	101+50	ON RT.	1	STA.

REMOVAL AND DISPOSAL OF PIPE CULVERTS

STA. 100+35	SIDE DRAIN ON LT.	1	EACH
STA. 103+34	SIDE DRAIN ON LT.	1	EACH

STA. 98+00 CONSTRUCT
STD. HWY. SIGNS
R1-1 ON LT
TYPE A SUPPORT ASSEMBLY

STATE OF ARKANSAS
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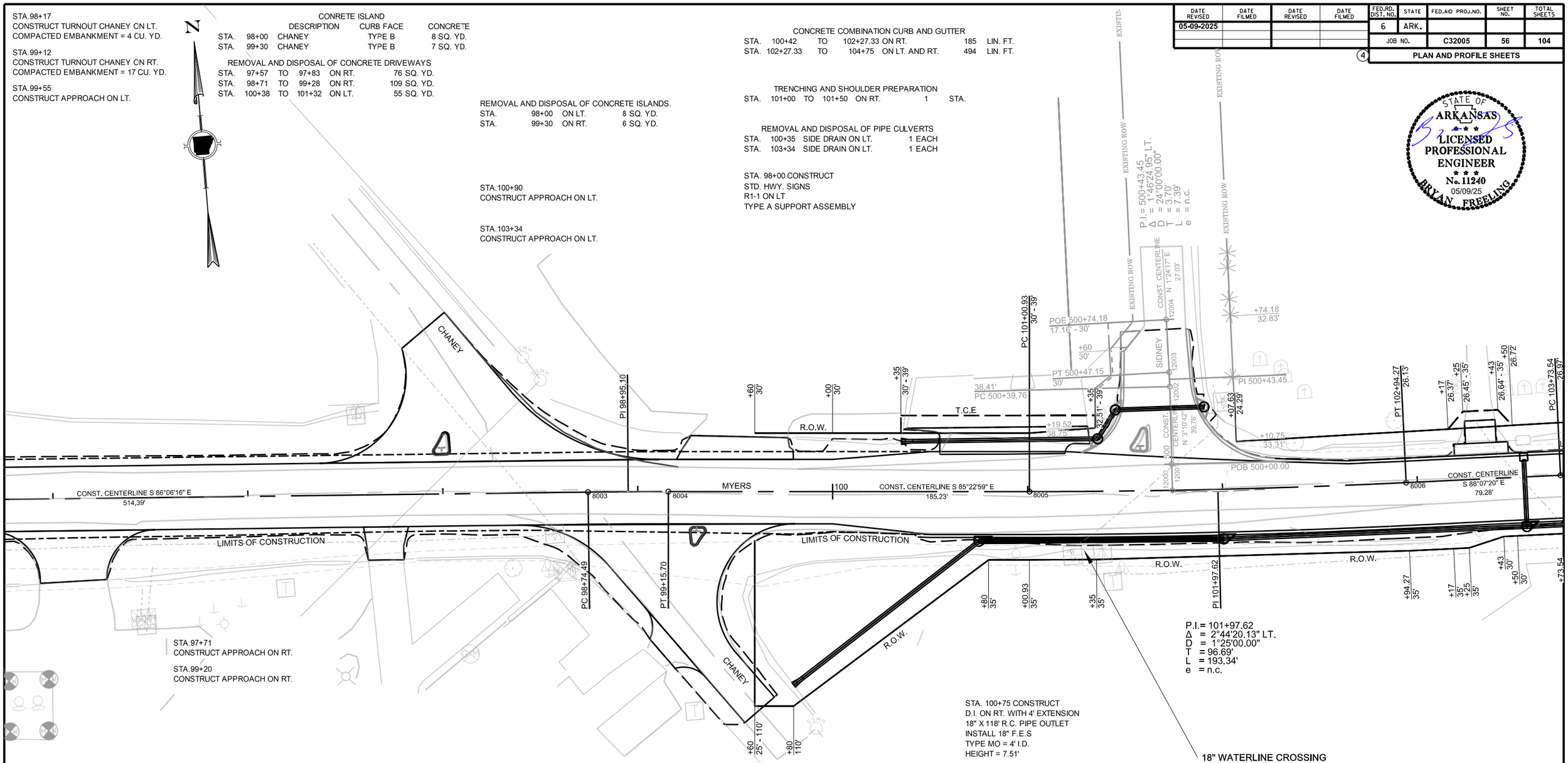
05/09/25
BRYAN FREELING



LEGEND

- POWER POLE
- COMBINATION POLE
- POLE W/GUY
- TELEPHONE RISER
- TELEPHONE POLE
- UNDERGROUND CABLE MKR.
- WATER METER
- WATER VALVE
- UTILITY POLE
- TANK
- GAS METER

0 100 200

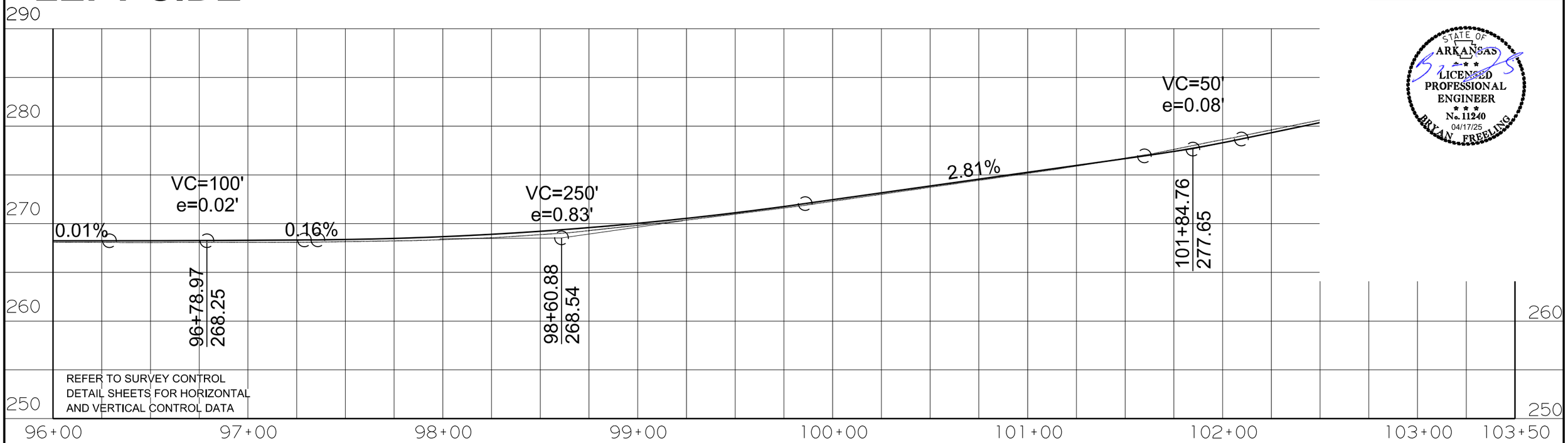
SCALE IN FEET

PLAN AND PROFILE SHEETS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	57	104

4 PLAN AND PROFILE SHEETS

LEFT SIDE



STATE OF ARKANSAS
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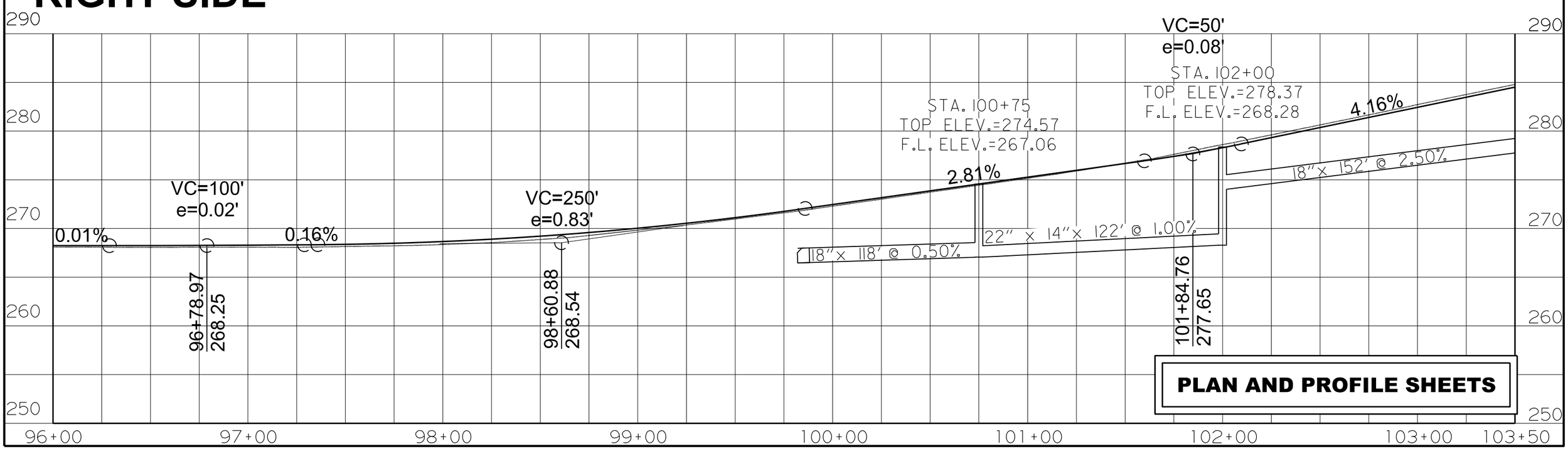
No. 11240
04/17/25
BRYAN FREELING

RIGHT SIDE



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
05-09-2025				6	ARK.			
				JOB NO.		C32005	58	104

4 PLAN AND PROFILE SHEETS

STA. 103+55 CONSTRUCT
D.I. ON LT.
18" X 32' R.C. PIPE OUTLET
CONNECT TO DROP INLET
AT STA. 103+55 ON RT.
TYPE ST = 3' X 3'
HEIGHT = 4.79'

STA 104+72 CONSTRUCT
D.I. ON LT.
18" X 32' R.C. PIPE OUTLET
CONNECT TO DROP INLET
AT STA. 104+72 ON RT.
TYPE ST = 3' X 3'
HEIGHT = 4.56'

RETAINING WALL

	CLASS S CONCRETE- ROADWAY CU. YD.	REINFORCING STEEL-ROADWAY (GRADE 60) POUND	HAND RAILING LIN. FT.
STA. 108+80.64 TO 110+65.00 ON LT.	65	5021	185

REMOVAL AND DISPOSAL OF CURB AND GUTTER
STA. 109+35 TO 109+55 ON RT. 84 LIN. FT.

REMOVAL AND DISPOSAL OF CONCRETE WALK
STA. 109+58 SHERIFF DEPARTMENT ON RT. 29 SQ. YD.

CONCRETE COMBINATION CURB AND GUTTER

STA.	104+75	TO	105+24	ON RT.	77 LIN. FT.
STA.	104+75	TO	106+00	ON LT.	125 LIN. FT.
STA.	105+50	TO	106+00	ON RT.	77 LIN. FT.
STA.	106+00	TO	108+75	ON LT. AND RT.	554 LIN. FT.
STA.	108+75	TO	108+80.64	ON LT.	6 LIN. FT.
STA.	108+80.64	TO	109+50.00	ON LT.	69 LIN. FT.

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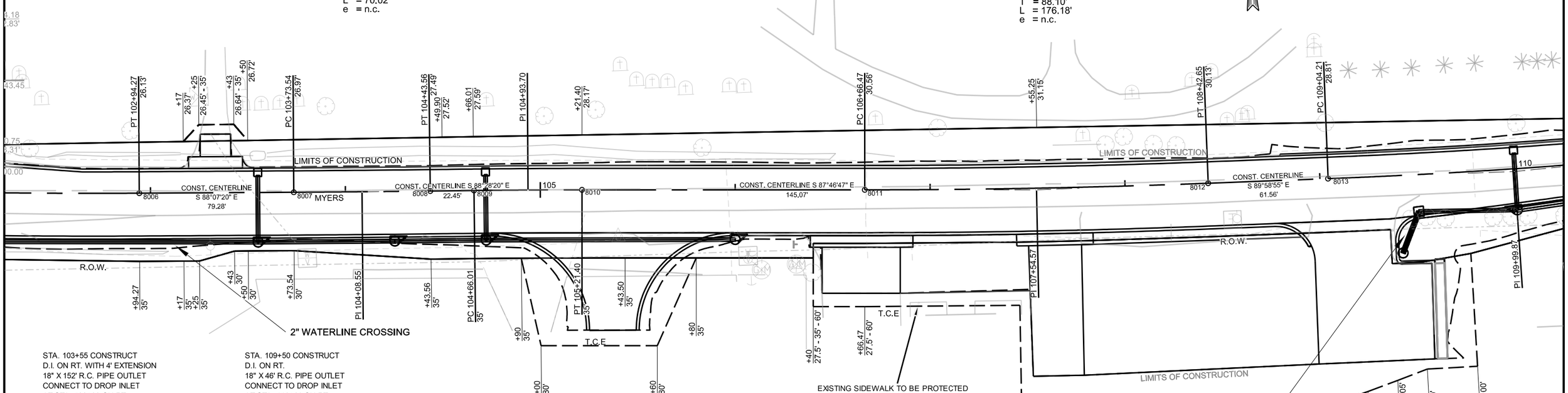
BRYAN FREELING

P.I.= 104+08.55
Δ = 0°21'00.31" LT.
D = 0°30'00.00"
T = 35.01'
L = 70.02'
e = n.c.

P.I.= 107+54.57
Δ = 2°12'08.13" LT.
D = 1°15'00.00"
T = 88.10'
L = 176.18'
e = n.c.



STA. 103+55 CONSTRUCT
D.I. ON RT. WITH 4' EXTENSION
18" X 152' R.C. PIPE OUTLET
CONNECT TO DROP INLET
AT STA. 102+00 ON RT.
TYPE MO = 4' I.D.
HEIGHT = 6.94'

STA. 104+25 CONSTRUCT
D.I. ON RT. WITH 4' EXTENSION
18" X 66' R.C. PIPE OUTLET
CONNECT TO DROP INLET
AT STA. 103+55 ON RT.
TYPE MO = 4 'I.D.
HEIGHT = 6.18'

STA. 106+00 CONSTRUCT
D.I. ON RT. WITH 4' EXTENSION
18" X 124' R.C. PIPE OUTLET
CONNECT TO DROP INLET
AT STA. 104+72 ON RT.
TYPE MO = 4' I.D.
HEIGHT = 6.67'

STA 109+40 CONSTRUCT
D.I. ON RT.
22" X 14" X 19' R.C. PIPE CUTLET
CONNECT TO DROP INLET
AT STA. 109+50 ON RT.
TYPE MO = 4' I.D.
HEIGHT = 9.38'

STA. 109+50 CONSTRUCT
D.I. ON RT.
18" X 46' R.C. PIPE OUTLET
CONNECT TO DROP INLET
AT STA. 110+00 ON RT.
TYPE ST = 3' X 3'
HEIGHT = 7.90'

STA.105+37
CONSTRUCT APPROACH ON RT.
COMPACTED EMBANKMENT = 124 CU. YD.

STA.106+64
CONSTRUCT APPROACH ON RT.

STA.107+17
CONSTRUCT PARKING LOT ON RT.

STA.107+64
CONSTRUCT PRIVATE ENTRANCE ON RT.
UNCLASSIFIED EXCAVATION = 2 CU. YD.

STA.108+00
CONSTRUCT PARKING LOT ON RT.
UNCLASSIFIED EXCAVATION = 155 CU. YD.

STA.109+16
CONSTRUCT PRIVATE ENTRANCE ON RT.
UNCLASSIFIED EXCAVATION = 283 CU. YD.

P.I.= 104+93.70
Δ = 0°41'32.62" RT.
D = 1°15'00.00"
T = 27.70'
L = 55.39'
e = n.c.

LEGEND

- POWER POLE
- COMBINATION POLE
- POLE W/GUY
- TELEPHONE RISER
- TELEPHONE POLE
- UNDERGROUND CABLE MKR.
- WATER METER
- WATER VALVE
- UTILITY POLE
- TANK
- GAS METER

STA. 104+72 CONSTRUCT
D.I. ON RT. WITH 4' EXTENSION
18" X 43' R.C. PIPE OUTLET
CONNECT TO DROP INLET
AT STA. 104+25 ON RT.
TYPE MO = 4 'I.D.
HEIGHT = 5.12'

CONCRETE WALKS
STA. 109+58 ON RT. 28 SQ. YD.

STA. 106+30 CONSTRUCT
STD. HWY. SIGNS
W4-2 ON RT.
TYPE A SUPPORT ASSEMBLY

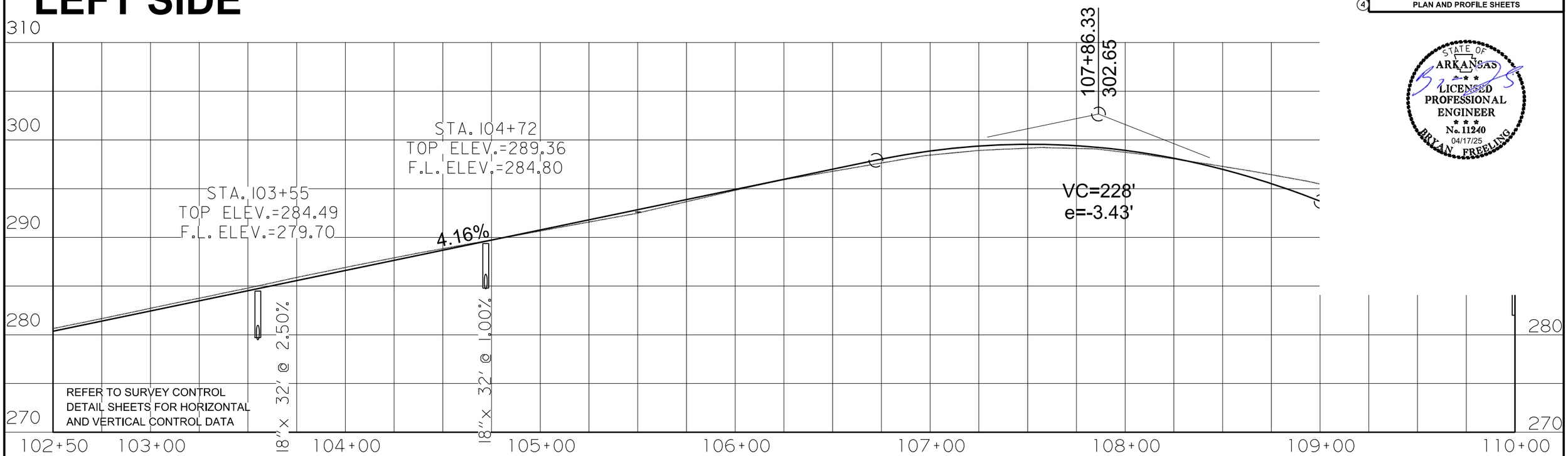
0 100 200
SCALE IN FEET

PLAN AND PROFILE SHEETS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	59	104

4 PLAN AND PROFILE SHEETS

LEFT SIDE



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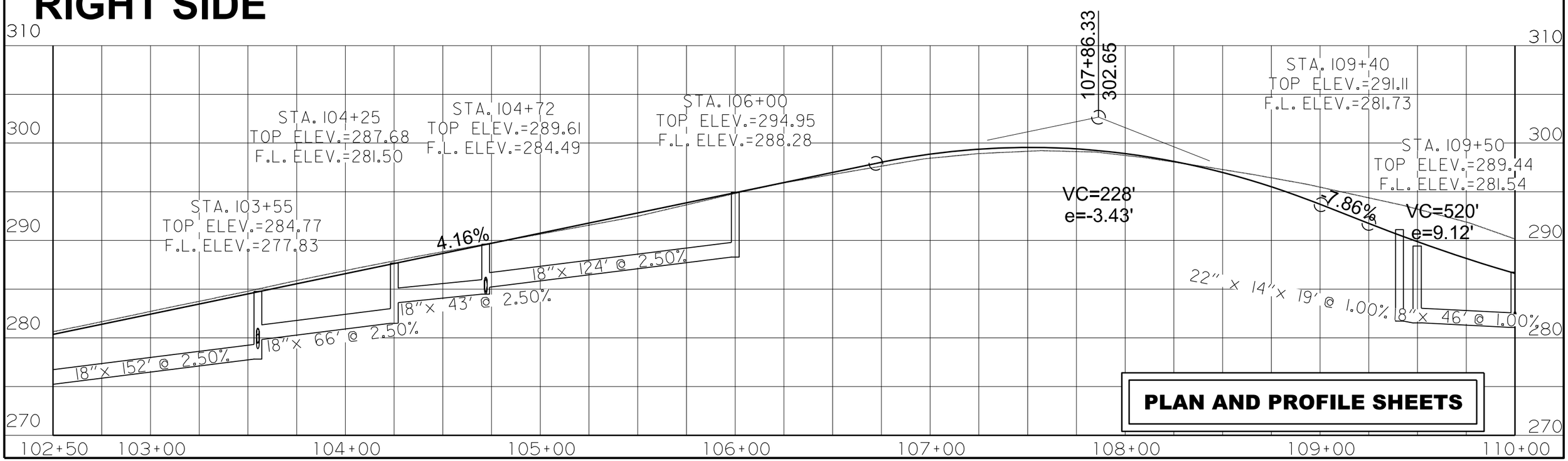
BRYAN FREELING

RIGHT SIDE



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05-09-2025				6	ARK.			
				JOB NO.		C32005	60	104

4 PLAN AND PROFILE SHEETS

CONCRETE WALKS

STA.	111+17	TO	111+23	ON LT.	2	SQ. YD.
STA.	111+40	TO	113+39	ON LT.	88	SQ. YD.
STA.	111+77	TO	112+60	ON RT.	46	SQ. YD.

CONCRETE COMBINATION CURB AND GUTTER

STA.	109+50	TO	110+65	ON LT. AND RT.	231	LIN. FT.
STA.	110+65	TO	110+80	ON LT. AND RT.	30	LIN. FT.
STA.	110+80	TO	111+46	ON LT.	65	LIN. FT.
STA.	110+80	TO	111+04	ON RT.	41	LIN. FT.
STA.	111+24	TO	111+46	ON RT.	41	LIN. FT.
STA.	111+46	TO	111+67	ON LT. AND RT.	44	LIN. FT.
STA.	111+67	TO	112+80	ON LT.	113	LIN. FT.
STA.	111+67	TO	111+79	ON RT.	74	LIN. FT.
STA.	112+04	TO	112+38	ON RT.	80	LIN. FT.
STA.	112+61	TO	112+80	ON RT.	78	LIN. FT.
STA.	112+80	TO	113+08	ON LT. AND RT.	56	LIN. FT.
STA.	113+08	TO	113+39	ON LT.	31	LIN. FT.
STA.	113+75	TO	113+86	ON LT.	11	LIN. FT.
STA.	113+86	TO	114+05	ON LT.	65	LIN. FT.
STA.	114+27	TO	114+50	ON LT.	75	LIN. FT.
STA.	114+50	TO	115+46.88	ON LT.	101	LIN. FT.

STA.111+09
CONSTRUCT PRIVATE ENTRANCE ON LT.
COMPACTED EMBANKMENT = 35 CU. YD.

STA. 110+00 CONSTRUCT
D.I. ON LT.
18" X 27' R.C. PIPE OUTLET
CONNECT TO DROP INLET
AT STA. 110+00 ON RT.
TYPE ST = 3' X 3'
HEIGHT = 4.39'

REMOVAL AND DISPOSAL OF CURB AND GUTTER

STA.	111+04	TO	111+05	ON RT.	11	LIN. FT.
STA.	111+07	TO	111+54	ON LT.	60	LIN. FT.
STA.	111+22	TO	111+45	ON RT.	42	LIN. FT.
STA.	111+45	TO	111+73	ON RT.	28	LIN. FT.
STA.	111+54	TO	113+39	ON LT.	185	LIN. FT.
STA.	111+73	TO	112+75	ON RT.	238	LIN. FT.
STA.	112+03	TO	112+38	ON RT.	38	LIN. FT.
STA.	112+70	TO	112+72	ON LT.	10	LIN. FT.
STA.	112+75	TO	113+09	ON RT.	34	LIN. FT.
STA.	112+98	TO	113+14	ON RT.	29	LIN. FT.
STA.	113+90	TO	114+07	ON LT.	63	LIN. FT.
STA.	114+26	TO	114+45	ON LT.	70	LIN. FT.
STA.	114+45	TO	115+46.88	ON LT.	106	LIN. FT.

PAVEMENT REPAIR OVER CULVERTS (ASPHALT)

STA. 112+77 ON RT. 1.5 TON

WHEELCHAIR RAMPS

STA. 113+39 ON LT. 3.56 SQ. YD.

CONRETE ISLAND

	DESCRIPTION	CURB FACE	CONCRETE
114+60.91 TO 115+21.69	MYERS	TYPE B	96 SQ. YD.

REMOVAL AND DISPOSAL OF PIPE CULVERTS

STA. 111+17 SIDE DRAIN ON LT. 1 EACH

STA. 115+28 CONSTRUCT
D.I. ON LT. WITH 4' EXTENSION
INSTALL 22" X 14" F.E.S.
22" X 14" X 3' R.C. PIPE OUTLET
TYPE MO = 4' I.D.
HEIGHT = 2.51'

STA.113+54
CONSTRUCT PEDESTRIAN WALK ON LT.

STA.114+17
INSTALL SIDE DRAIN ON LT.
21" X 15" X 48' PIPE CULVERT
CONSTRUCT APPROACH ON LT.
COMPACTED EMBANKMENT = 5 CU. YD.

STA. 114+03 CONSTRUCT
D.I. ON LT.
18" X 17' R.C PIPE OUTLET
INSTALL 18" F.E.S.
TYPE MO = 4' I.D.
HEIGHT = 3.67'

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P.I.= 109+99.87
Δ = 3°20'50.09" LT.
D = 1°45'00.00"
T = 95.66'
L = 191.27'
e = n.c.

0 100 200
SCALE IN FEET

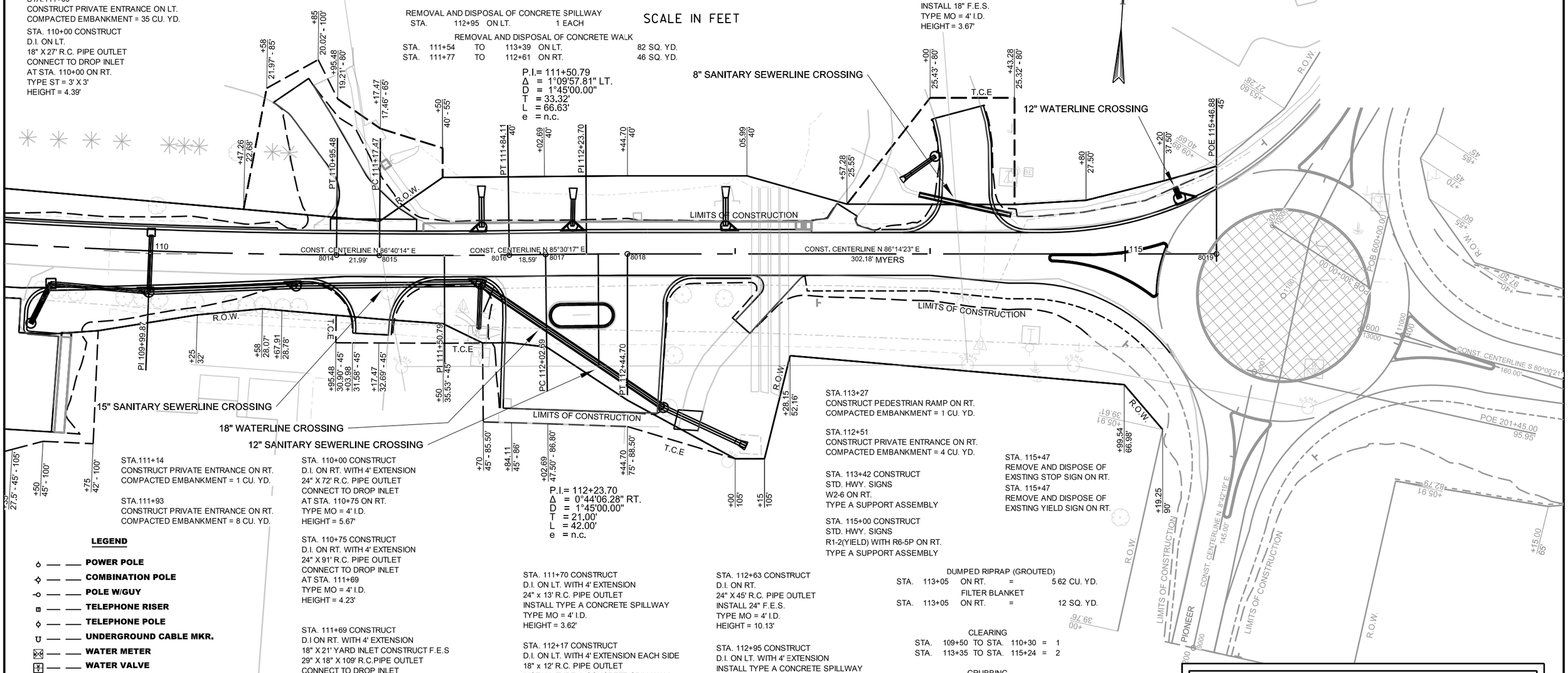
REMOVAL AND DISPOSAL OF CONCRETE SPILLWAY

STA. 112+95 ON LT. 1 EACH

REMOVAL AND DISPOSAL OF CONCRETE WALK

STA.	111+54	TO	113+39	ON LT.	82 SQ. YD.
STA.	111+77	TO	112+61	ON RT.	46 SQ. YD.

P.I.= 111+50.79
Δ = 1°09'57.81" LT.
D = 1°45'00.00"
T = 33.32'
L = 66.63'
e = n.c.



STA.111+14
CONSTRUCT PRIVATE ENTRANCE ON RT.
COMPACTED EMBANKMENT = 1 CU. YD.

STA.111+93
CONSTRUCT PRIVATE ENTRANCE ON RT.
COMPACTED EMBANKMENT = 8 CU. YD.

STA. 110+00 CONSTRUCT
D.I. ON RT. WITH 4' EXTENSION
24" X 72' R.C. PIPE OUTLET
CONNECT TO DROP INLET
AT STA. 110+75 ON RT.
TYPE MO = 4' I.D.
HEIGHT = 5.67'

STA. 110+75 CONSTRUCT
D.I. ON RT. WITH 4' EXTENSION
24" X 91' R.C. PIPE OUTLET
CONNECT TO DROP INLET
AT STA. 111+69
TYPE MO = 4' I.D.
HEIGHT = 4.23'

STA. 111+69 CONSTRUCT
D.I ON RT. WITH 4' EXTENSION
18" X 21' YARD INLET CONSTRUCT F.E.S
29" X 18" X 109' R.C.PIPE OUTLET
CONNECT TO DROP INLET
AT STA. 112+63 ON RT.
TYPE MO = 4' I.D.
HEIGHT = 11.58'

P.I.= 112+23.70
Δ = 0°44'06.28" RT.
D = 1°45'00.00"
T = 21.00'
L = 42.00'
e = n.c.

STA. 111+70 CONSTRUCT
D.I. ON LT. WITH 4' EXTENSION
24" x 13' R.C. PIPE OUTLET
INSTALL TYPE A CONCRETE SPILLWAY
TYPE MO = 4' I.D.
HEIGHT = 3.62'

STA. 112+17 CONSTRUCT
D.I. ON LT. WITH 4' EXTENSION EACH SIDE
18" x 12' R.C. PIPE OUTLET
INSTALL TYPE A CONCRETE SPILLWAY
TYPE MO = 4' I.D.
HEIGHT = 4.12'

STA. 112+63 CONSTRUCT
D.I. ON RT.
24" X 45' R.C. PIPE OUTLET
INSTALL 24" F.E.S.
TYPE MO = 4' I.D.
HEIGHT = 10.13'

STA. 112+95 CONSTRUCT
D.I. ON LT. WITH 4' EXTENSION
INSTALL TYPE A CONCRETE SPILLWAY
24" X 12' R.C. PIPE OUTLET
TYPE MO = 4' I.D.
HEIGHT = 3.46'

STA.113+27
CONSTRUCT PEDESTRIAN RAMP ON RT.
COMPACTED EMBANKMENT = 1 CU. YD.

STA.112+51
CONSTRUCT PRIVATE ENTRANCE ON RT.
COMPACTED EMBANKMENT = 4 CU. YD.

STA. 113+42 CONSTRUCT
STD. HWY. SIGNS
W2-6 ON RT.
TYPE A SUPPORT ASSEMBLY

STA. 115+00 CONSTRUCT
STD. HWY. SIGNS
R1-2(YIELD) WITH R6-5P ON RT.
TYPE A SUPPORT ASSEMBLY

STA. 115+47
REMOVE AND DISPOSE OF
EXISTING STOP SIGN ON RT.

STA. 115+47
REMOVE AND DISPOSE OF
EXISTING YIELD SIGN ON RT.

DUMPED RIPRAP (GROUTED)

STA. 113+05 ON RT. = 5.62 CU. YD.

FILTER BLANKET

STA. 113+05 ON RT. = 12 SQ. YD.

CLEARING

STA. 109+50 TO STA. 110+30 = 1
STA. 113+35 TO STA. 115+24 = 2

GRUBBING

STA. 109+50 TO STA. 110+30 = 1
STA. 113+35 TO STA. 115+24 = 2

LEGEND

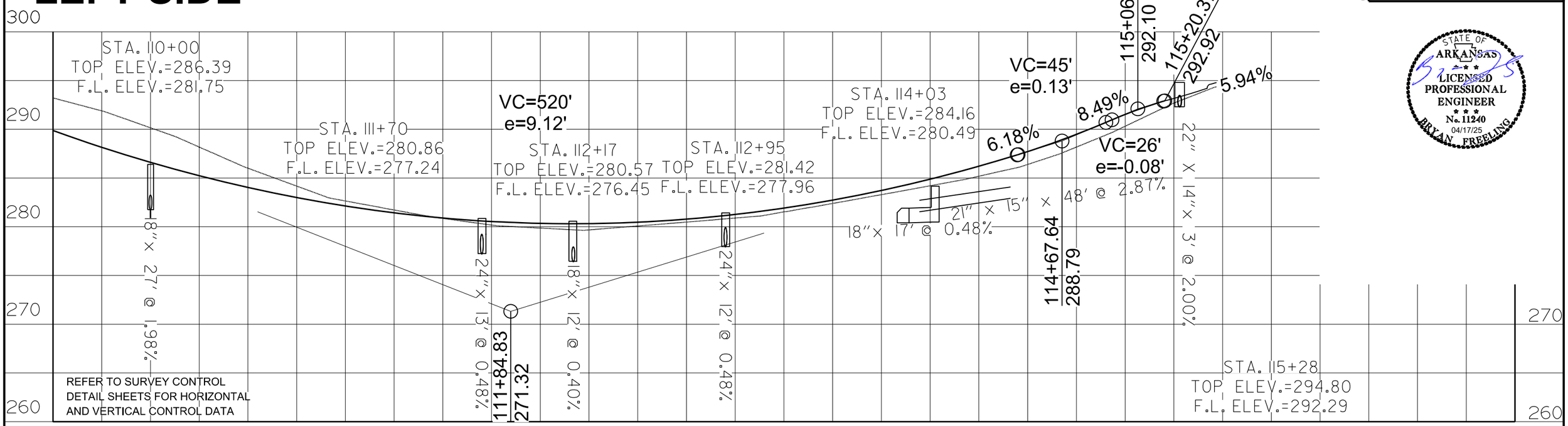
- POWER POLE
- COMBINATION POLE
- POLE W/GUY
- TELEPHONE RISER
- TELEPHONE POLE
- UNDERGROUND CABLE MKR.
- WATER METER
- WATER VALVE
- UTILITY POLE
- TANK
- GAS METER

PLAN AND PROFILE SHEETS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	61	104

4 PLAN AND PROFILE SHEETS

LEFT SIDE



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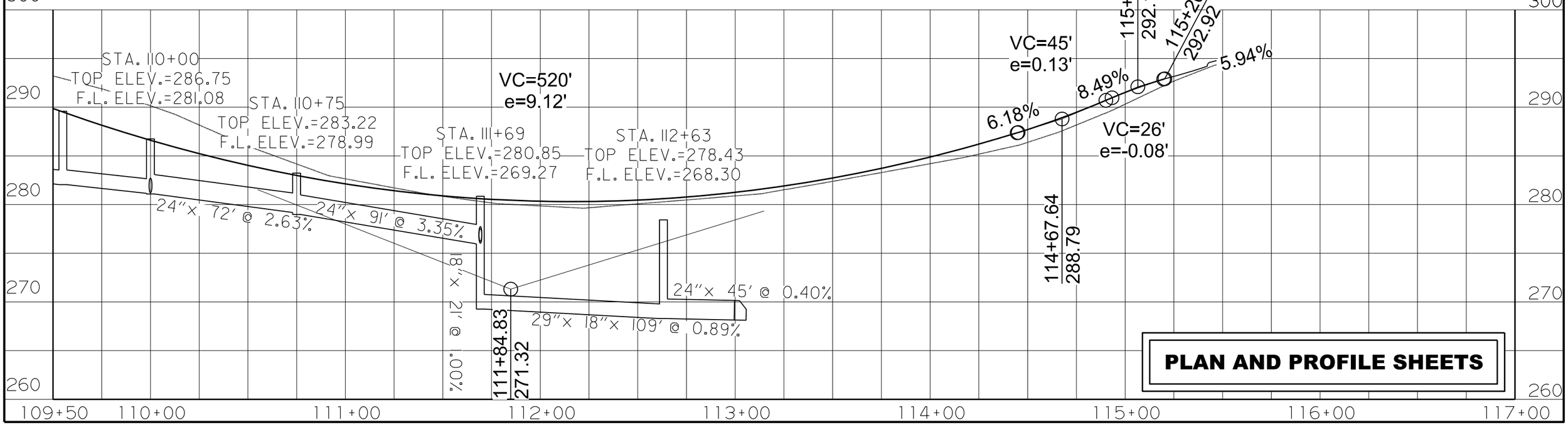
BRYAN FREELING

RIGHT SIDE



PLAN AND PROFILE SHEETS

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				6	ARK.			
				JOB NO.		C32005	62	104

4 PLAN AND PROFILE SHEETS

TRAFFIC CONTROL DEVICES

W20-1

STA.	185+00 (1500)	ON RT.	=	16.00	SQ. FT.
STA.	190+00 (1000)	ON RT.	=	16.00	SQ. FT.
STA.	195+00 (500)	ON RT.	=	16.00	SQ. FT.
STA.	200+00 (AHEAD)	ON RT.	=	16.00	SQ. FT.

G20-2 (END ROAD WORK)

STA.	200+00	ON LT.	=	8.00	SQ. FT.

W21-5 (SHOULDER WORK)

STA.	200+00	ON RT.	=	6.25	SQ. FT.

CONRETE ISLAND

	DESCRIPTION	CURB FACE	CONCRETE
STA. 200+68.68 TO 201+22.82	PIONEER	TYPE B	62 SQ. YD.

EARTHWORK PIONEER

UNCLASSIFIED EXCAVATION (NORMAL)	=	25 CU. YD.
COMPACTED EMBANKMENT (NORMAL)	=	110 CU. YD.

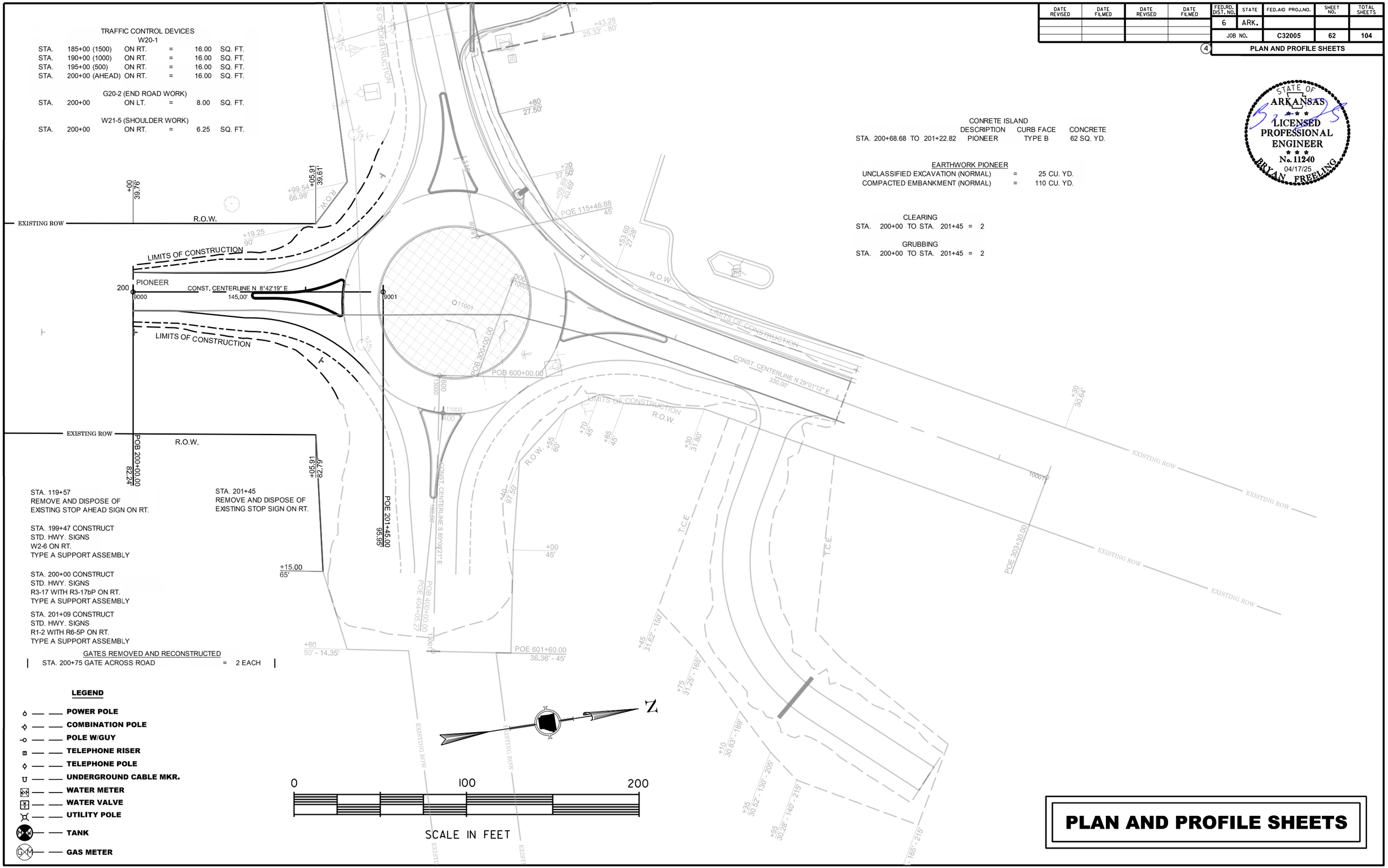
CLEARING

STA. 200+00 TO STA. 201+45 = 2

GRUBBING

STA. 200+00 TO STA. 201+45 = 2

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 11240 04/17/25 BRYAN FREELING



STA. 119+57
REMOVE AND DISPOSE OF
EXISTING STOP AHEAD SIGN ON RT.

STA. 199+47 CONSTRUCT
STD. HWY. SIGNS
W2-6 ON RT.
TYPE A SUPPORT ASSEMBLY

STA. 200+00 CONSTRUCT
STD. HWY. SIGNS
R3-17 WITH R3-17bP ON RT.
TYPE A SUPPORT ASSEMBLY

STA. 201+09 CONSTRUCT
STD. HWY. SIGNS
R1-2 WITH R6-5P ON RT.
TYPE A SUPPORT ASSEMBLY

STA. 201+45
REMOVE AND DISPOSE OF
EXISTING STOP SIGN ON RT.

GATES REMOVED AND RECONSTRUCTED

STA. 200+75 GATE ACROSS ROAD = 2 EACH

LEGEND

- POWER POLE
- COMBINATION POLE
- POLE W/GUY
- TELEPHONE RISER
- TELEPHONE POLE
- UNDERGROUND CABLE MKR.
- WATER METER
- WATER VALVE
- UTILITY POLE
- TANK
- GAS METER

PLAN AND PROFILE SHEETS

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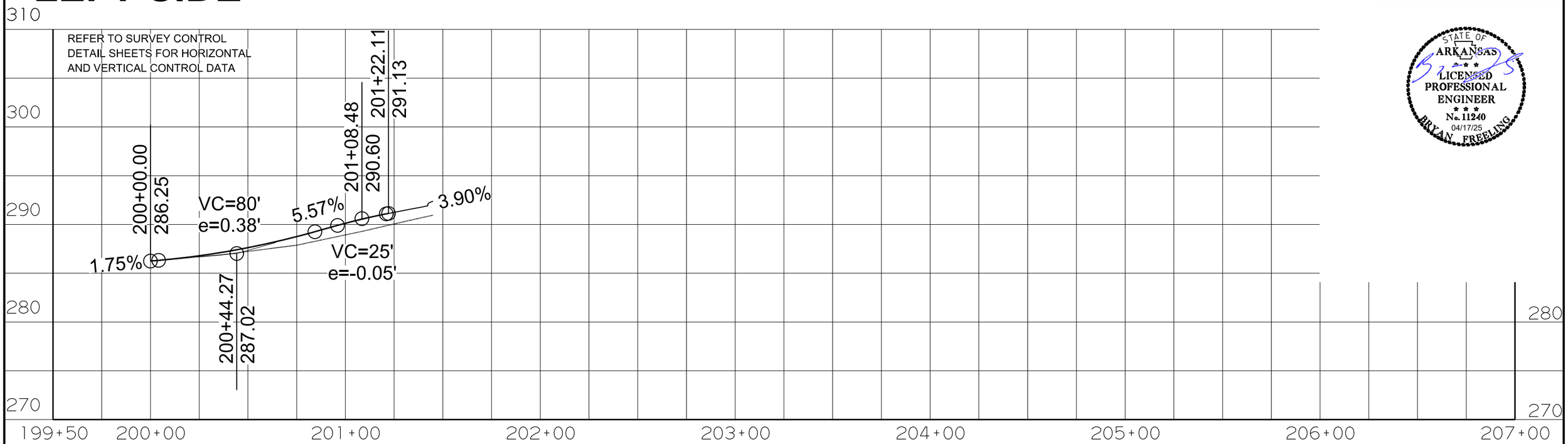
4 PLAN AND PROFILE SHEETS

LEFT SIDE



STATE OF ARKANSAS
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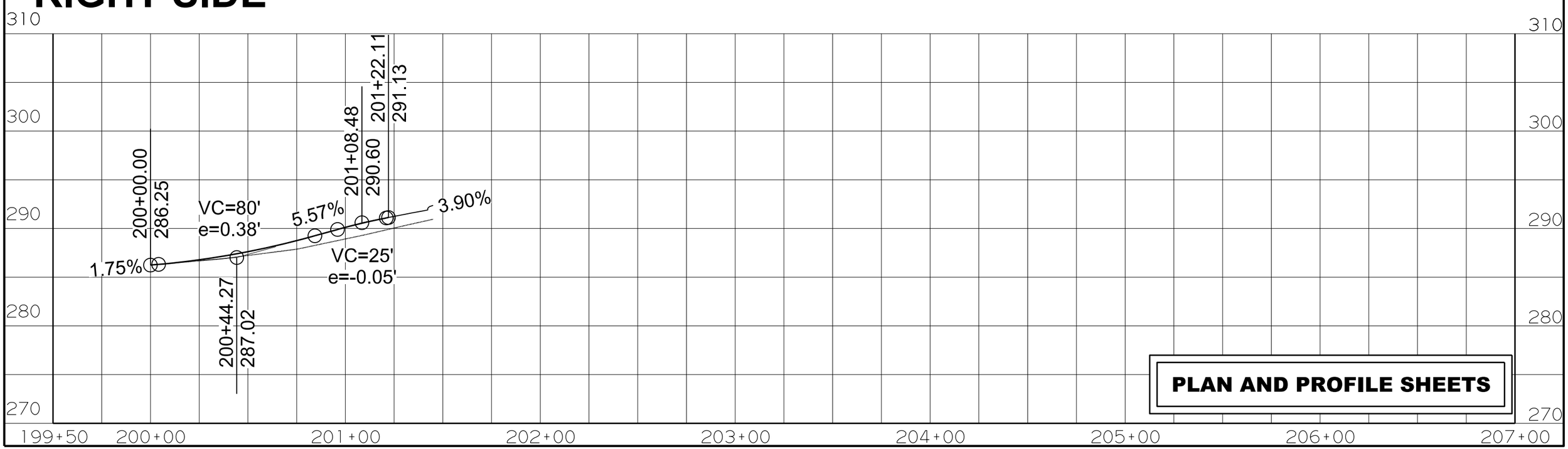
BRYAN FREELING

RIGHT SIDE



PLAN AND PROFILE SHEETS

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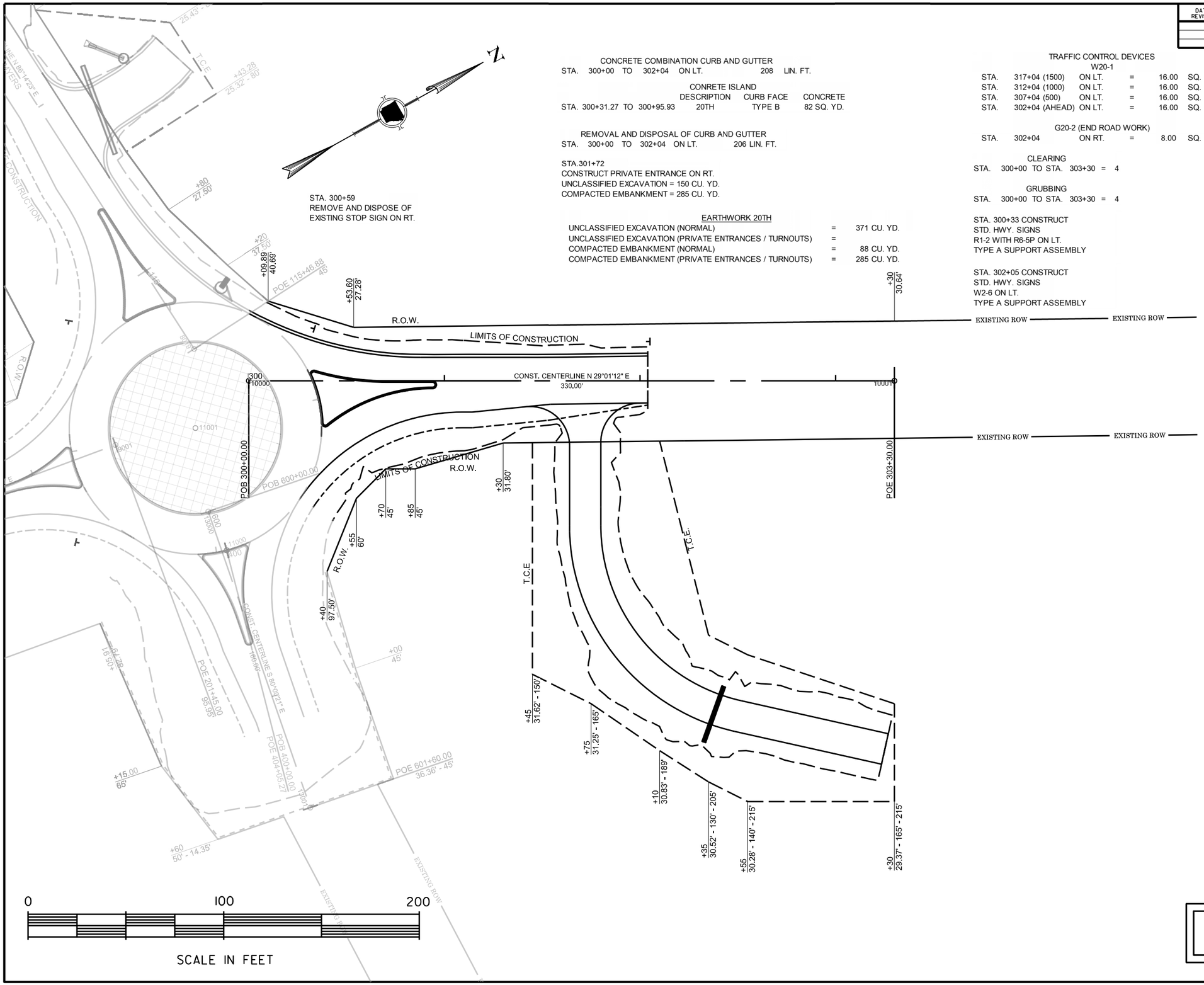
4 PLAN AND PROFILE SHEETS



CONCRETE COMBINATION CURB AND GUTTER

STA. 300+00 TO 302+04 ON LT. 208 LIN. FT.

CONRETE ISLAND

	DESCRIPTION	CURB FACE	CONCRETE
STA. 300+31.27 TO 300+95.93	20TH	TYPE B	82 SQ. YD.

REMOVAL AND DISPOSAL OF CURB AND GUTTER

STA. 300+00 TO 302+04 ON LT. 206 LIN. FT.

STA.301+72
CONSTRUCT PRIVATE ENTRANCE ON RT.
UNCLASSIFIED EXCAVATION = 150 CU. YD.
COMPACTED EMBANKMENT = 285 CU. YD.

EARTHWORK 20TH

UNCLASSIFIED EXCAVATION (NORMAL)	=	371 CU. YD.
UNCLASSIFIED EXCAVATION (PRIVATE ENTRANCES / TURNOUTS)	=	
COMPACTED EMBANKMENT (NORMAL)	=	88 CU. YD.
COMPACTED EMBANKMENT (PRIVATE ENTRANCES / TURNOUTS)	=	285 CU. YD.

TRAFFIC CONTROL DEVICES

W20-1

STA.	317+04 (1500)	ON LT.	=	16.00	SQ. FT.
STA.	312+04 (1000)	ON LT.	=	16.00	SQ. FT.
STA.	307+04 (500)	ON LT.	=	16.00	SQ. FT.
STA.	302+04 (AHEAD)	ON LT.	=	16.00	SQ. FT.

G20-2 (END ROAD WORK)

STA.	302+04	ON RT.	=	8.00	SQ. FT.

CLEARING

STA. 300+00 TO STA. 303+30 = 4

GRUBBING

STA. 300+00 TO STA. 303+30 = 4

STA. 300+33 CONSTRUCT
STD. HWY. SIGNS
R1-2 WITH R6-5P ON LT.
TYPE A SUPPORT ASSEMBLY

STA. 302+05 CONSTRUCT
STD. HWY. SIGNS
W2-6 ON LT.
TYPE A SUPPORT ASSEMBLY

STATE OF ARKANSAS
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04/17/25
BRYAN FREELING

LEGEND

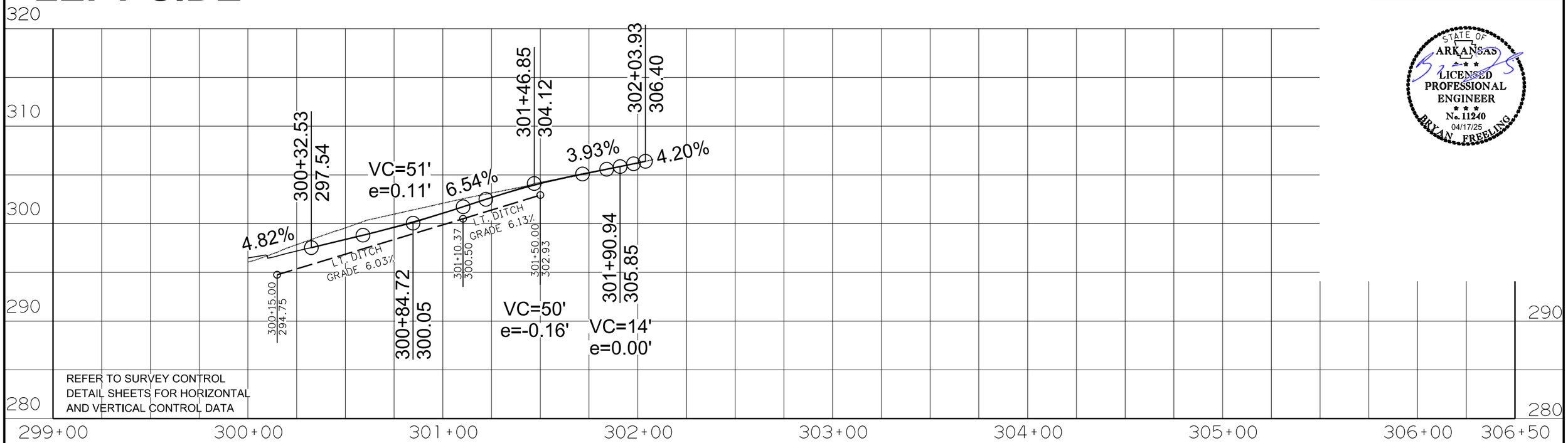
- POWER POLE
- COMBINATION POLE
- POLE W/GUY
- TELEPHONE RISER
- TELEPHONE POLE
- UNDERGROUND CABLE MKR.
- WATER METER
- WATER VALVE
- UTILITY POLE
- TANK
- GAS METER

PLAN AND PROFILE SHEETS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	65	104

4 PLAN AND PROFILE SHEETS

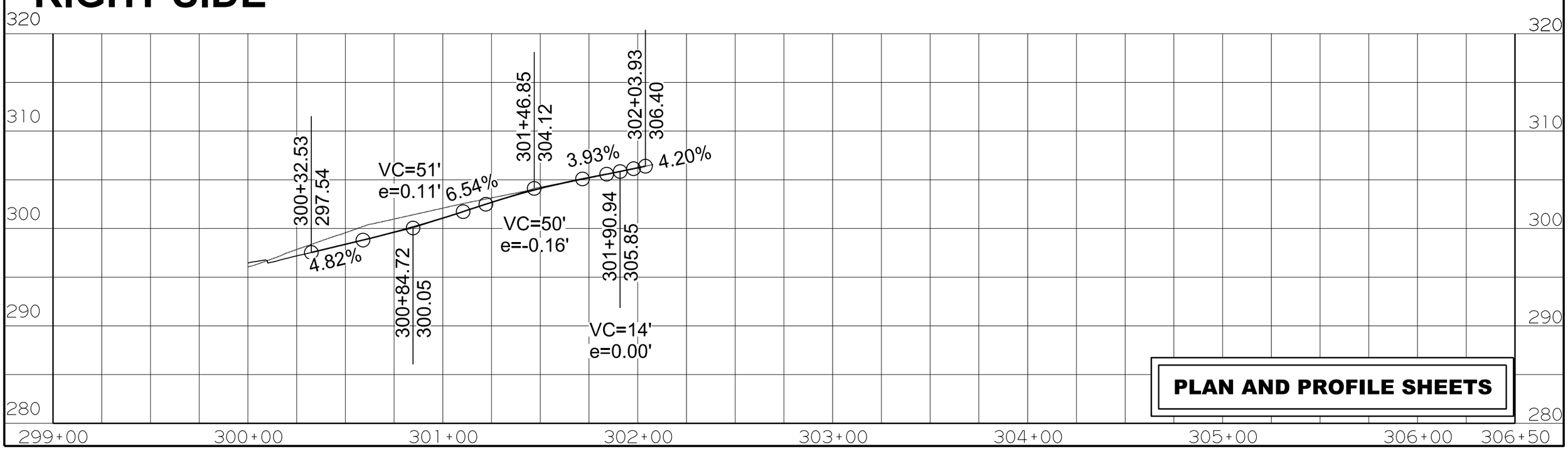
LEFT SIDE



REFER TO SURVEY CONTROL DETAIL SHEETS FOR HORIZONTAL AND VERTICAL CONTROL DATA

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING

RIGHT SIDE



PLAN AND PROFILE SHEETS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	66	104

4 PLAN AND PROFILE SHEETS

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No. 11240
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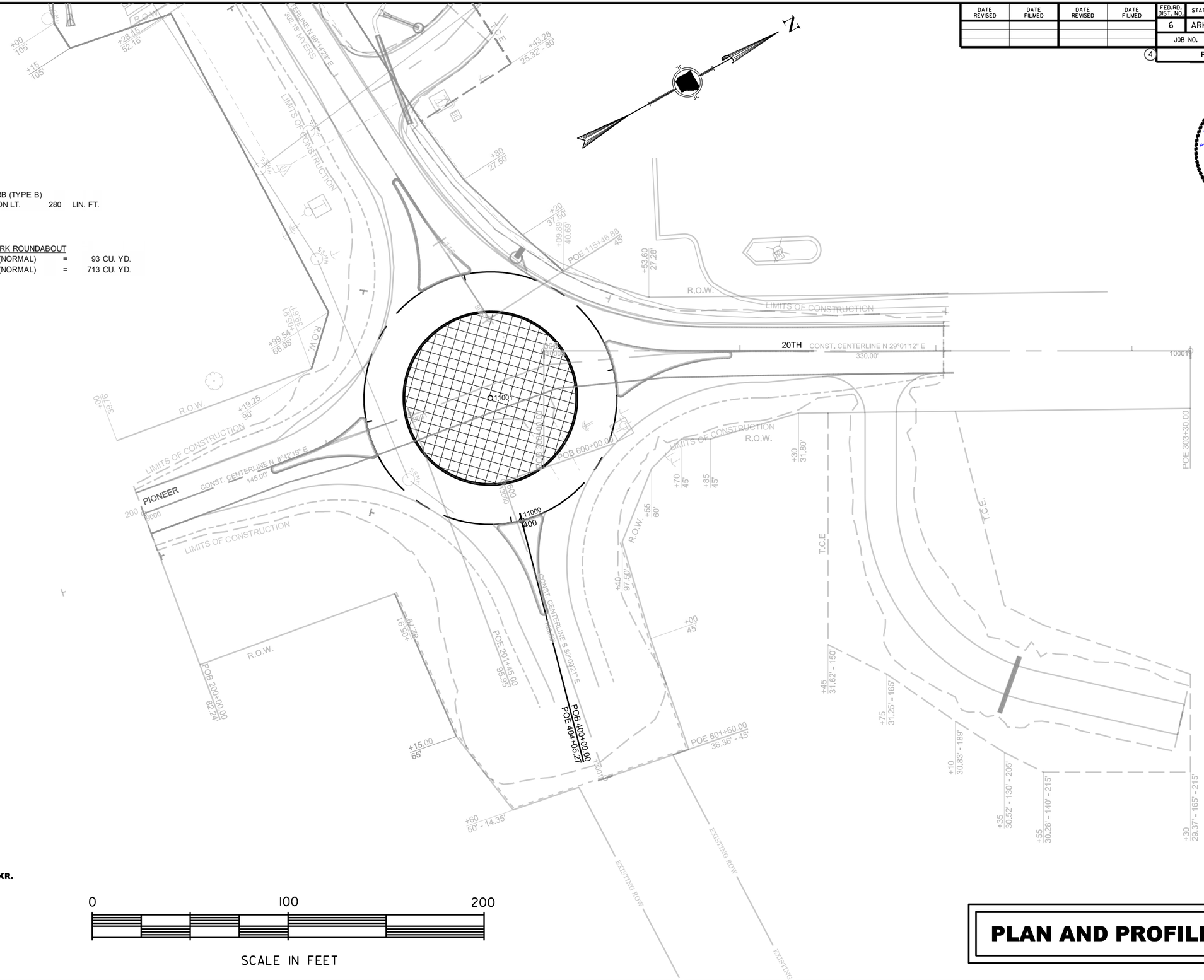
BRYAN FREELING

CONCRETE CURB (TYPE B)
STA. 400+00 TO 404+05.27 ON LT. 280 LIN. FT.

EARTHWORK ROUNDABOUT

UNCLASSIFIED EXCAVATION (NORMAL)	=	93 CU. YD.
COMPACTED EMBANKMENT (NORMAL)	=	713 CU. YD.



LEGEND

- POWER POLE
- COMBINATION POLE
- POLE W/GUY
- TELEPHONE RISER
- TELEPHONE POLE
- UNDERGROUND CABLE MKR.
- WATER METER
- WATER VALVE
- UTILITY POLE
- TANK
- GAS METER

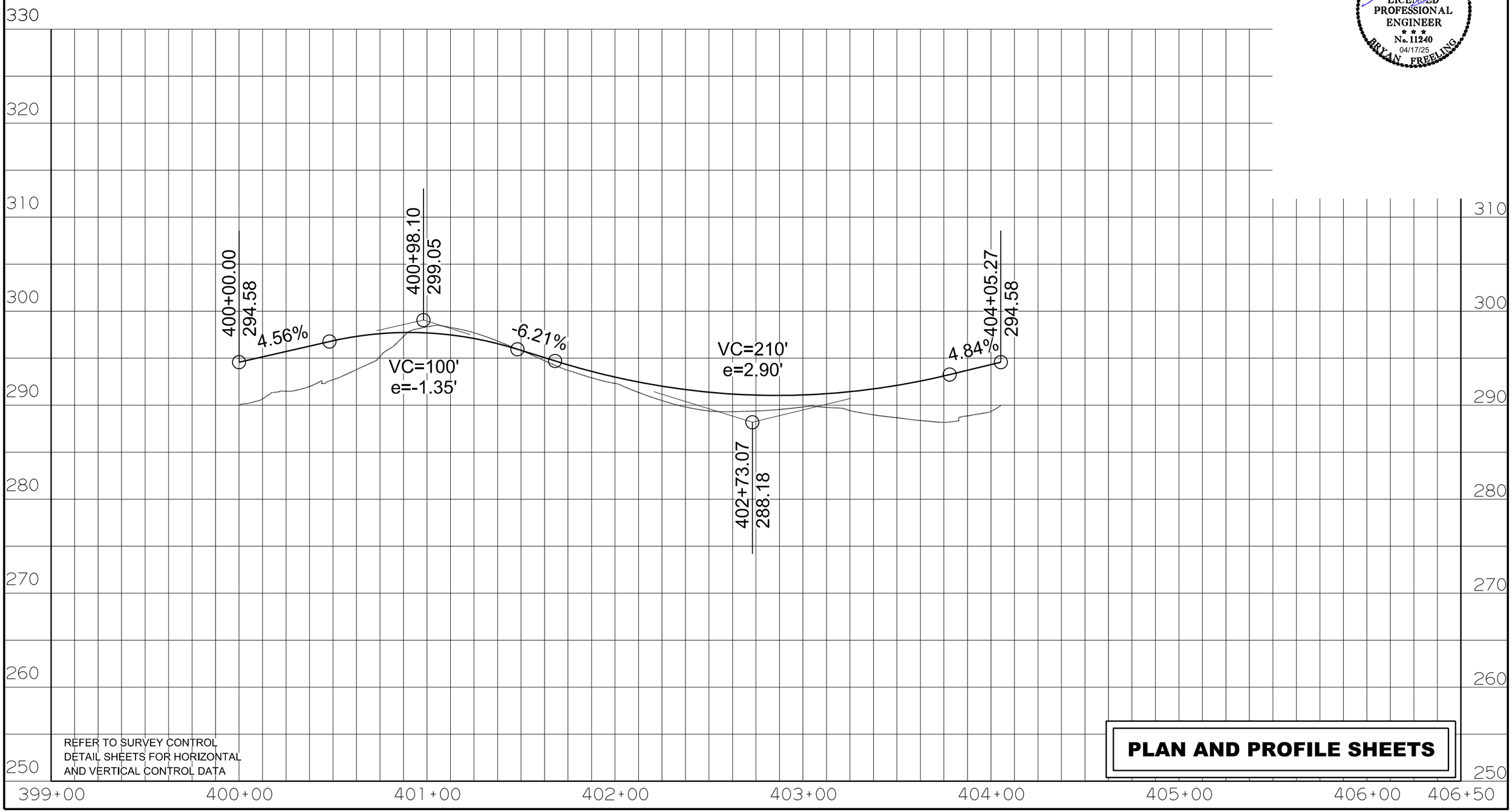
0 100 200
SCALE IN FEET

PLAN AND PROFILE SHEETS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	67	104
				4	PLAN AND PROFILE SHEETS			

ROUNDABOUT

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING

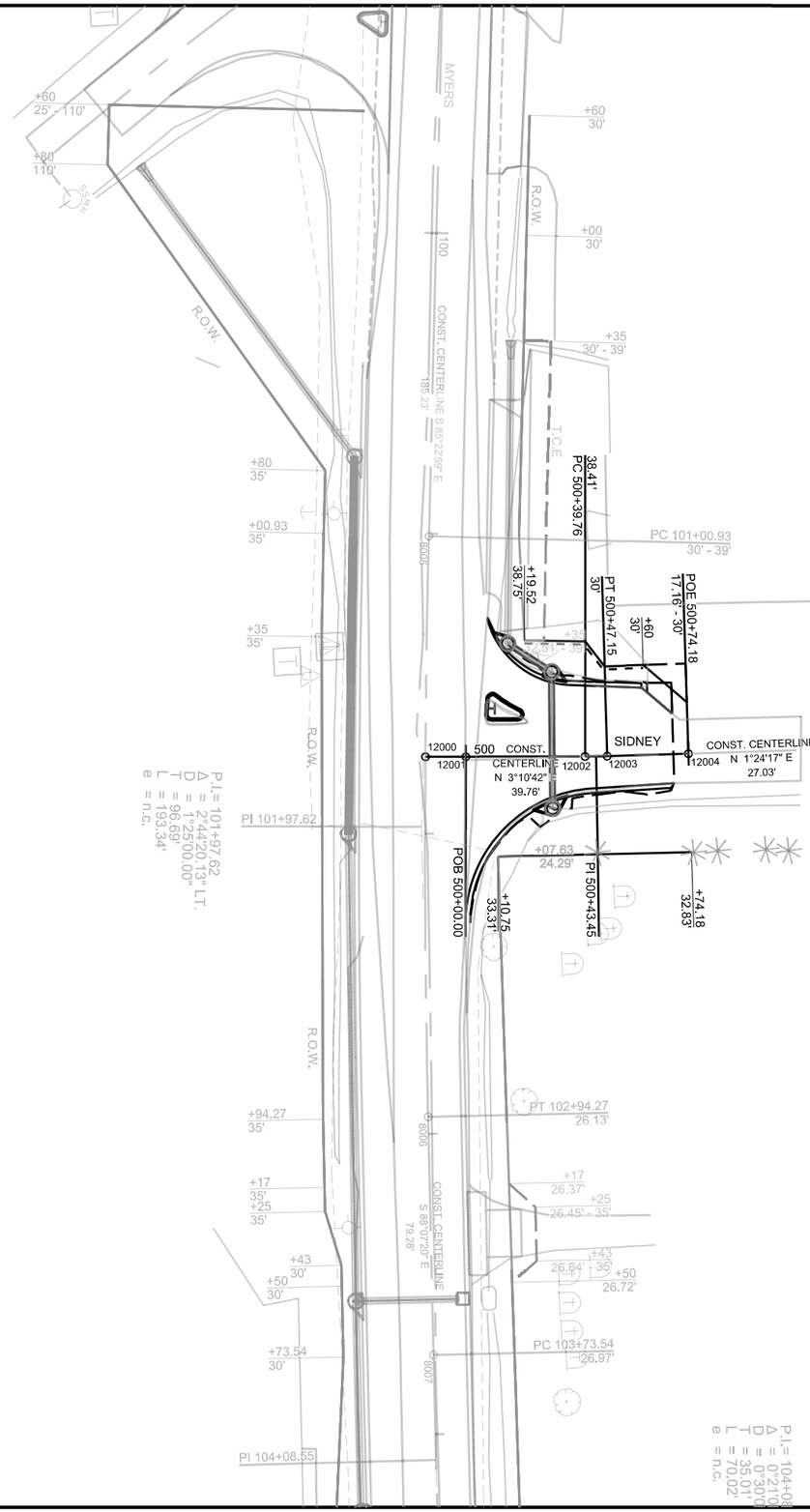


REFER TO SURVEY CONTROL DETAIL SHEETS FOR HORIZONTAL AND VERTICAL CONTROL DATA

PLAN AND PROFILE SHEETS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	68	104

4 PLAN AND PROFILE SHEETS



CONCRETE COMBINATION CURB AND GUTTER

STA.	500+07	TO 500+59	ON LT.	60 LIN. FT.
STA.	500+00	TO 500+69.18	ON RT.	84 LIN. FT.

CONRETE ISLAND

	DESCRIPTION	CURB FACE	CONCRETE SQ. YD.
STA. 500+10	SIDNEY	TYPE B	9

REMOVAL AND DISPOSAL OF CURB AND GUTTER
STA. 500+10 TO 500+61 ON LT. 55 LIN. FT.

REMOVAL AND DISPOSAL OF CONCRETE DRIVEWAYS
STA. 500+65 ON LT. 6 SQ. YD.

REMOVAL AND DISPOSAL OF PIPE CULVERTS
STA. 500+25 CROSS DRAIN 1 EACH

REMOVAL AND DISPOSAL OF DROP INLETS
STA. 500+23 DROP INLET ON LT. 1 EACH

STA. 500+61
CONSTRUCT PRIVATE ENTRANCE ON LT.
UNCLASSIFIED EXCAVATION = 1 CU. YD.

REMOVAL AND DISPOSAL OF CONCRETE ISLANDS.
STA. 500+15 SIDNEY 8 SQ. YD.

STA. 500+14 CONSTRUCT
D.I ON LT. WITH 4' EXTENSION
18" X 99' R.C. PIPE OUTLET
TYPE MO = 4' I.D.
HEIGHT = 5.63'
INSTALL 18" F.E.S.

STA. 500+29 CONSTRUCT
D.I. ON RT. WITH 4' EXTENSION EACH SIDE
18" X 42' R.C. PIPE OUTLET
OPENING IN BACK
CONNECT TO DROP INLET
AT STA. 500+28 ON LT.
TYPE MO = 4' I.D.
HEIGHT = 4.76'

STA. 500+29 CONSTRUCT
D.I ON LT. WITH 4' EXTENSION
18" X 13' R.C. PIPE OUTLET
CONNECT TO DROP INLET
AT STA. 500+14 ON LT.
TYPE MO = 4' I.D.
HEIGHT = 5.81'

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P.I.= 500+43.45
Δ = 1°46'24.95" LT.
D = 24°00'00.00"
T = 3.70'
L = 7.39'
e = n.c.

EARTHWORK SIDNEY

UNCLASSIFIED EXCAVATION (NORMAL)	=	140 CU. YD.
COMPACTED EMBANKMENT (NORMAL)	=	0 CU. YD.

TRAFFIC CONTROL DEVICES
W20-1

STA. 515+70.00 (1500)	ON LT.	=	16.00	SQ. FT.
STA. 510+70.00 (1000)	ON LT.	=	16.00	SQ. FT.
STA. 505+70.00 (500)	ON LT.	=	16.00	SQ. FT.
STA. 500+69.18 (AHEAD)	ON LT.	=	16.00	SQ. FT.

G20-2 (END ROAD WORK)

STA. 500+69.18	ON RT.	=	8.00	SQ. FT.

STA. 500+10 CONSTRUCT
STD. HWY. SIGNS
R1-1 ON LT.
TYPE A SUPPORT ASSEMBLY

LEGEND

- POWER POLE
- COMBINATION POLE
- POLE W/GUY
- TELEPHONE RISER
- TELEPHONE POLE
- UNDERGROUND CABLE MKR.
- WATER METER
- WATER VALVE
- UTILITY POLE
- TANK
- GAS METER

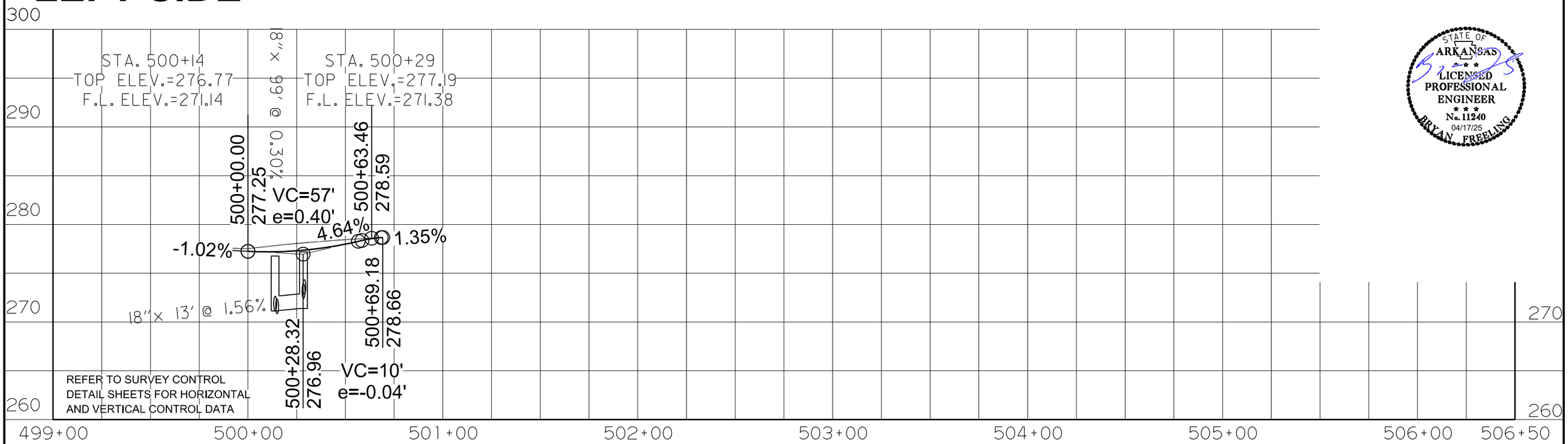
0 100 200
SCALE IN FEET

PLAN AND PROFILE SHEETS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	69	104

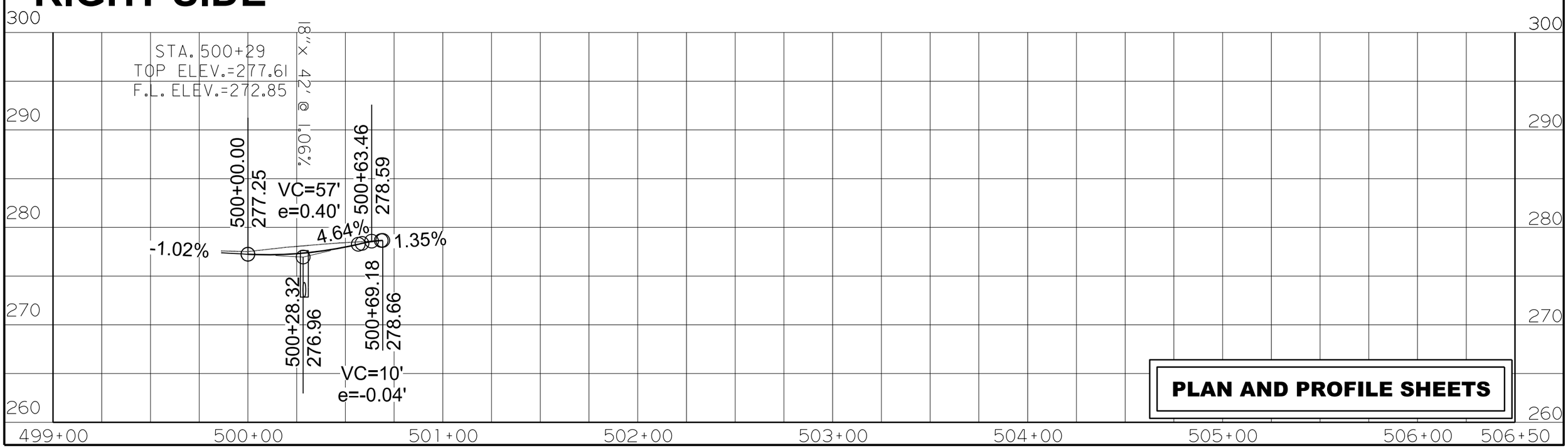
4 PLAN AND PROFILE SHEETS

LEFT SIDE



STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING

RIGHT SIDE

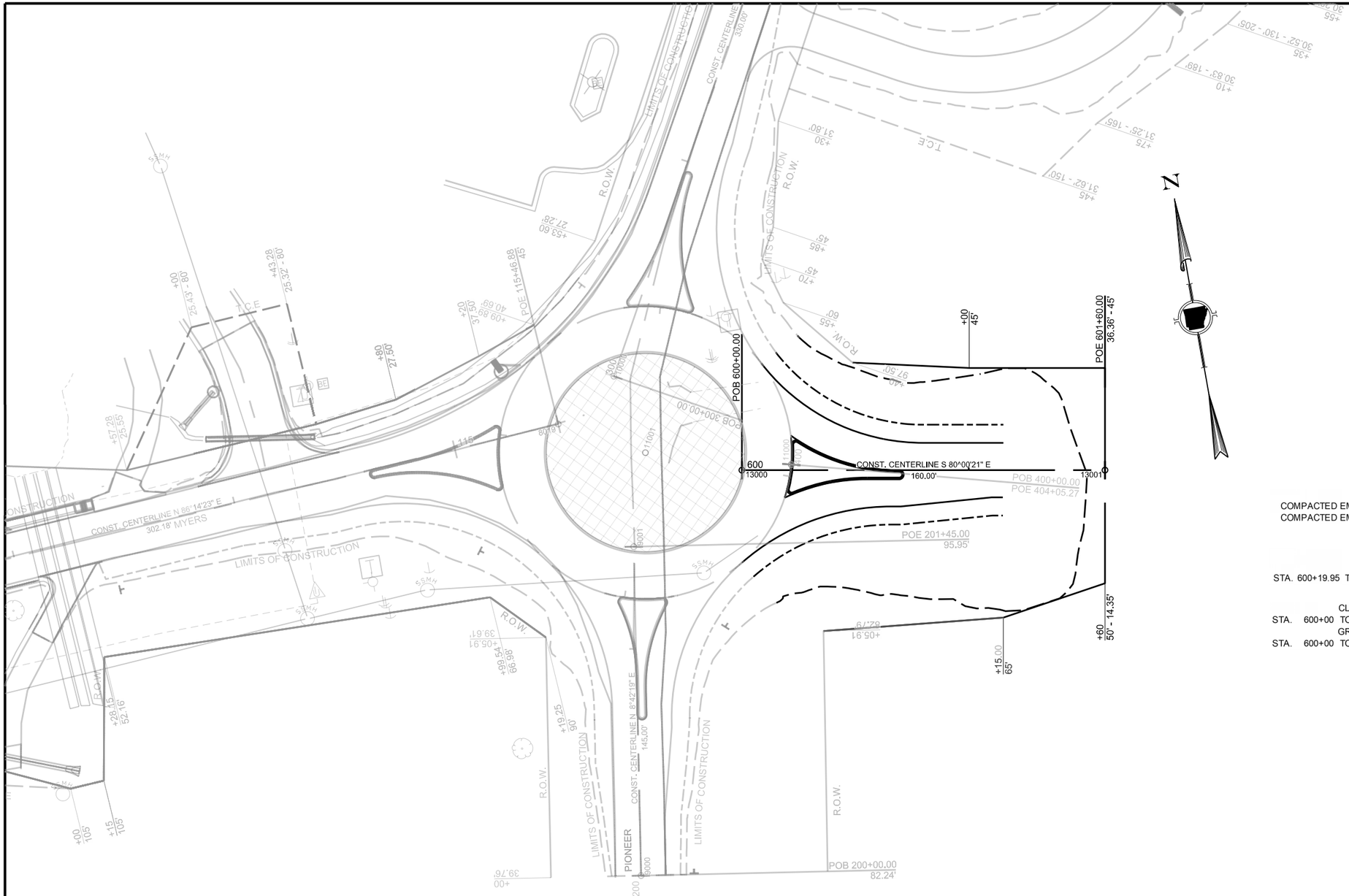


PLAN AND PROFILE SHEETS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	70	104

4 PLAN AND PROFILE SHEETS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING



EARTHWORK STUBOUT

COMPACTED EMBANKMENT (NORMAL)	=	2124 CU. YD.
COMPACTED EMBANKMENT (ADDITIONAL)	=	663 CU. YD.

	CONRETE ISLAND DESCRIPTION	CURB FACE	CONCRETE
STA. 600+19.95 TO 600+71.37	FUTURE ROAD	TYPE B	56 SQ. YD.

CLEARING
STA. 600+00 TO STA. 601+60 = 2
GRUBBING
STA. 600+00 TO STA. 601+60 = 2

LEGEND

- POWER POLE
- COMBINATION POLE
- POLE W/GUY
- TELEPHONE RISER
- TELEPHONE POLE
- UNDERGROUND CABLE MKR.
- WATER METER
- WATER VALVE
- UTILITY POLE
- TANK
- GAS METER

0 100 200

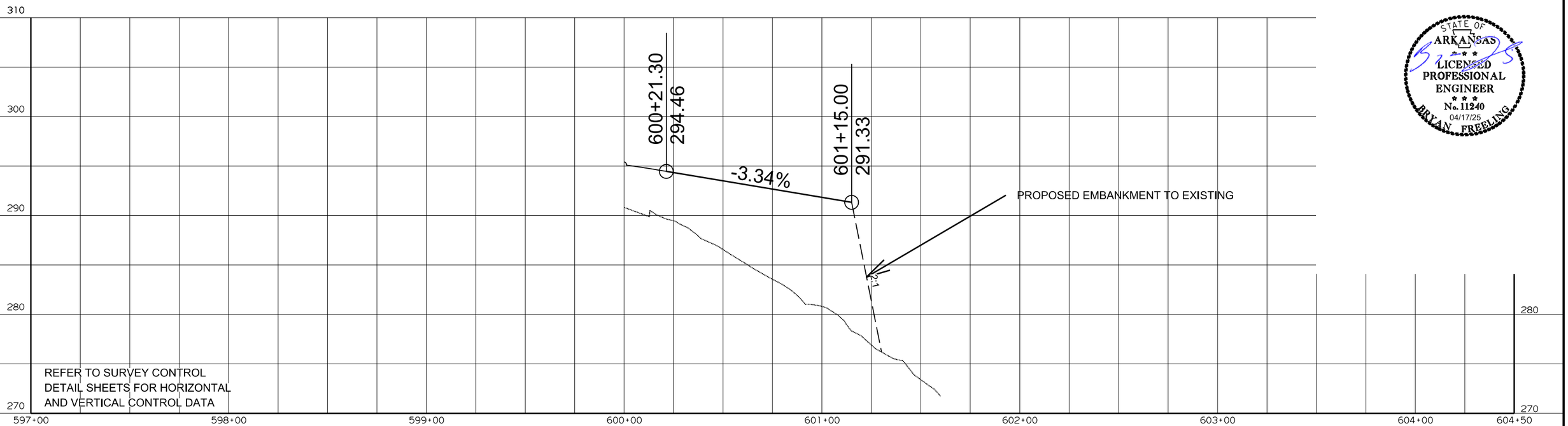
SCALE IN FEET

PLAN AND PROFILE SHEETS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	71	104

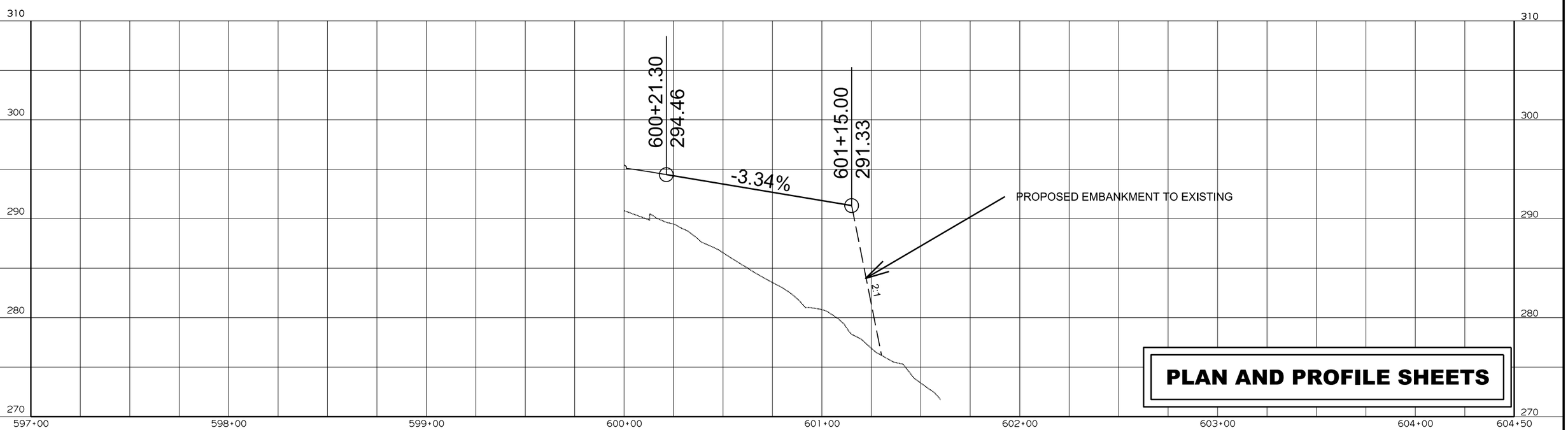
4 PLAN AND PROFILE SHEETS

LEFT SIDE



STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11240
04/17/25
BRYAN FREELING

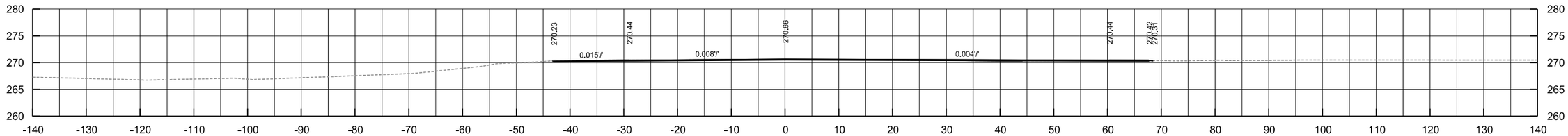
RIGHT SIDE



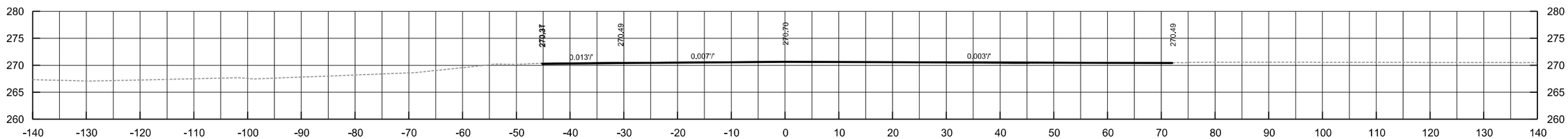
PLAN AND PROFILE SHEETS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	72	104

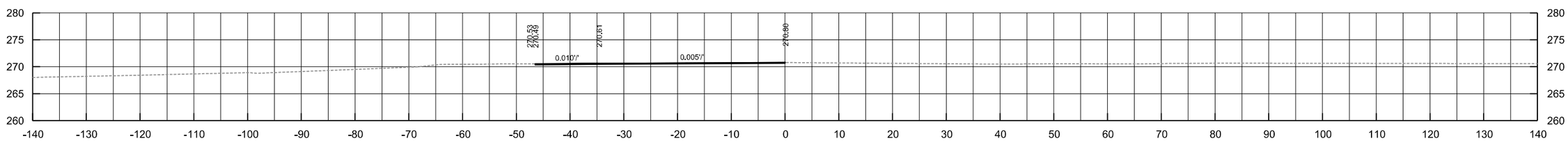
4 CROSS SECTIONS STA. 91+36.90 TO 91+60.00



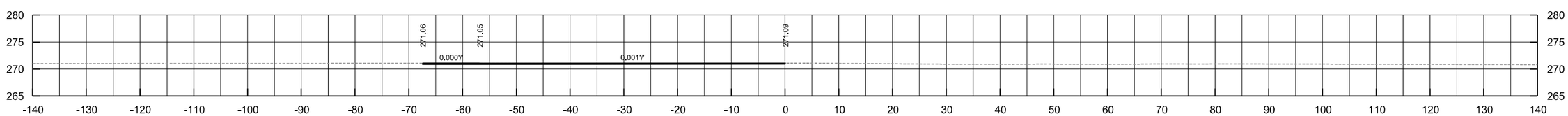
91+60.00



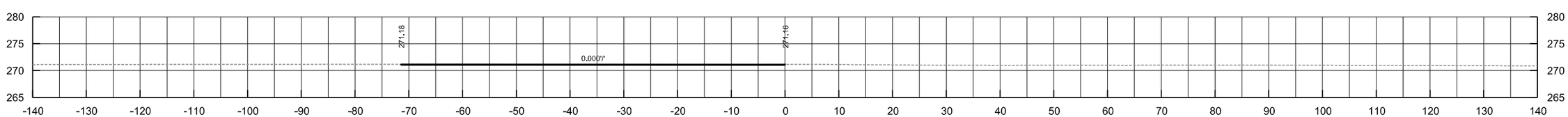
91+57.94



91+53.67



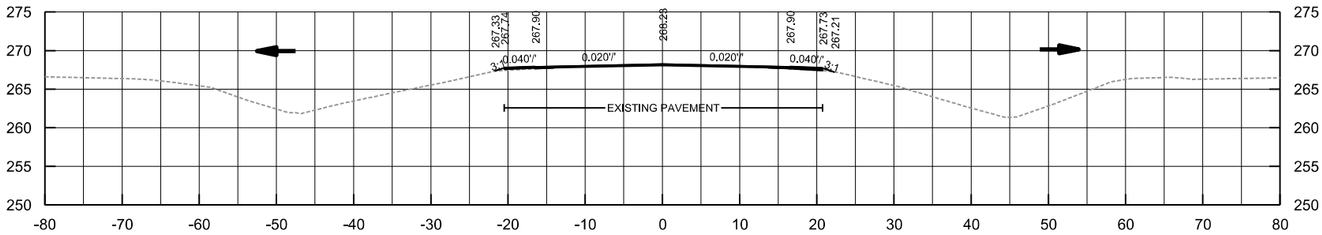
91+40.00



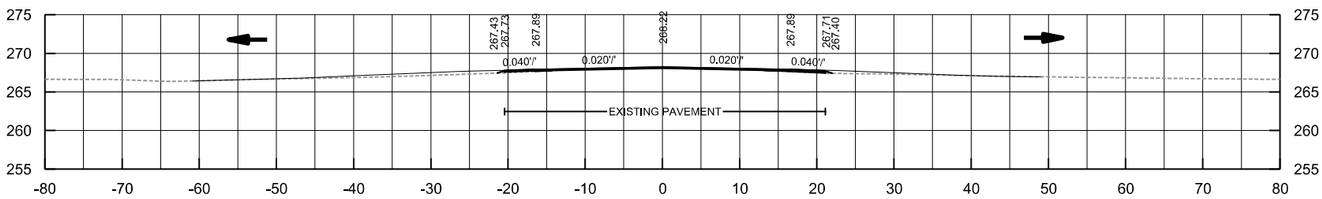
91+36.90

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	73	104

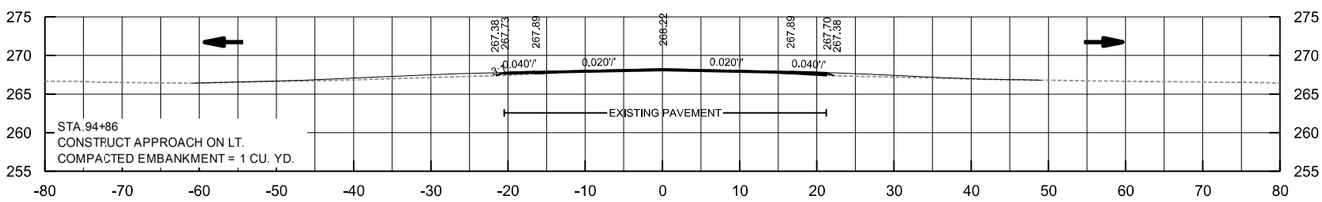
4 CROSS SECTIONS STA. 91+80.00 TO 93+29.00



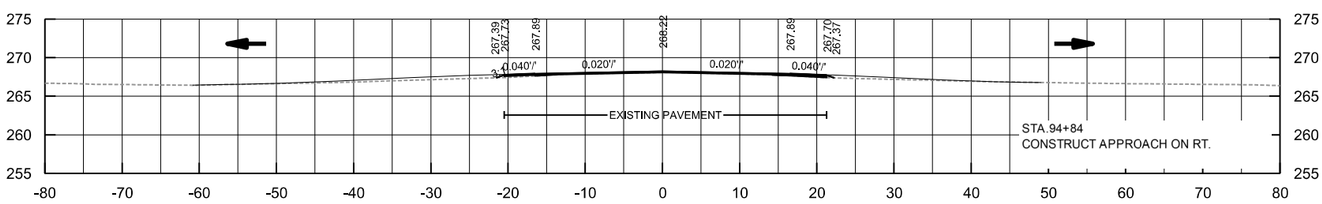
95+50.00



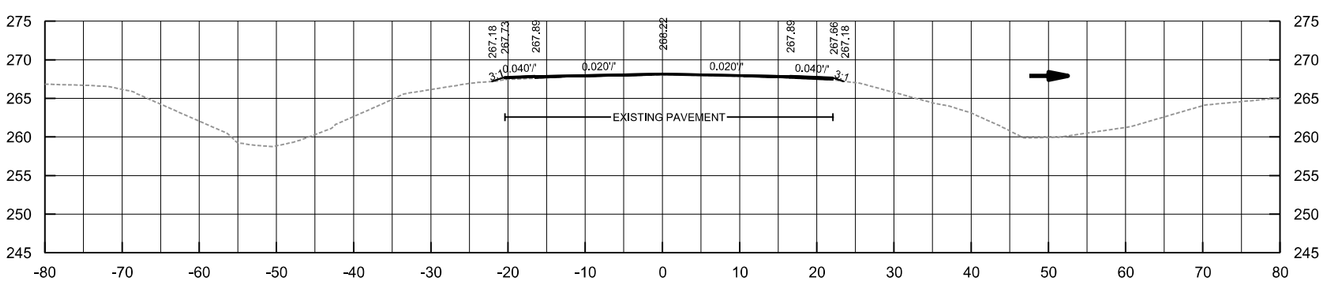
95+00.00



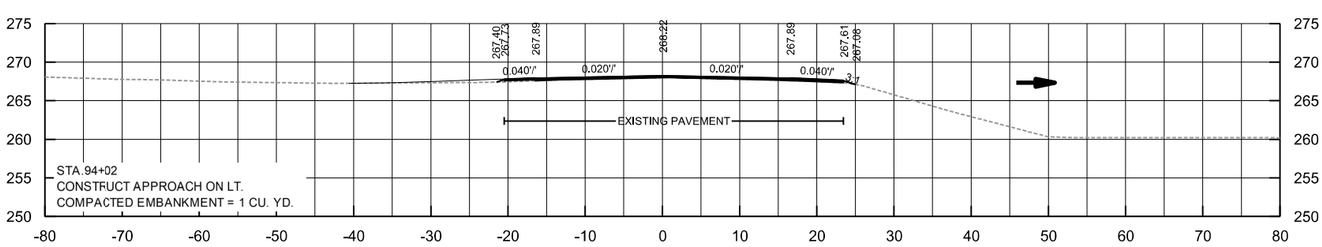
94+86.00



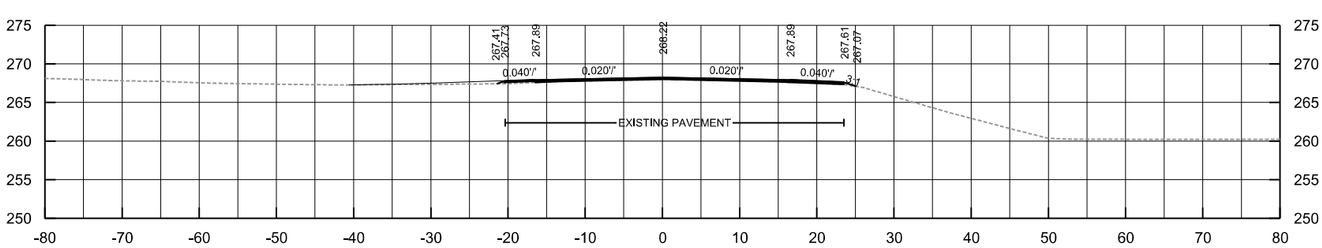
94+84.00



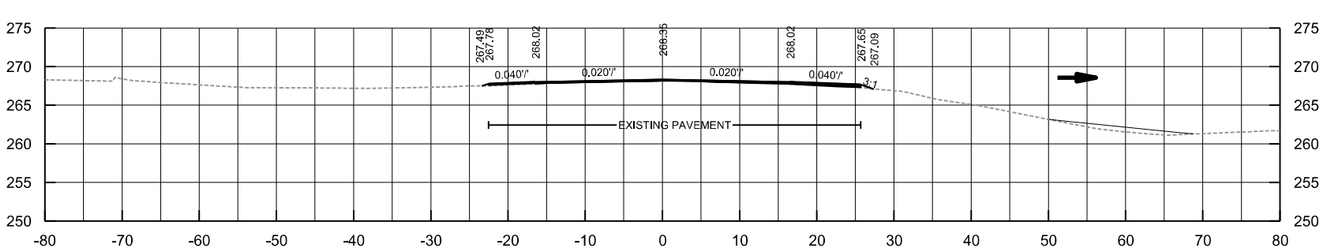
94+50.00



94+02.00



94+00.00



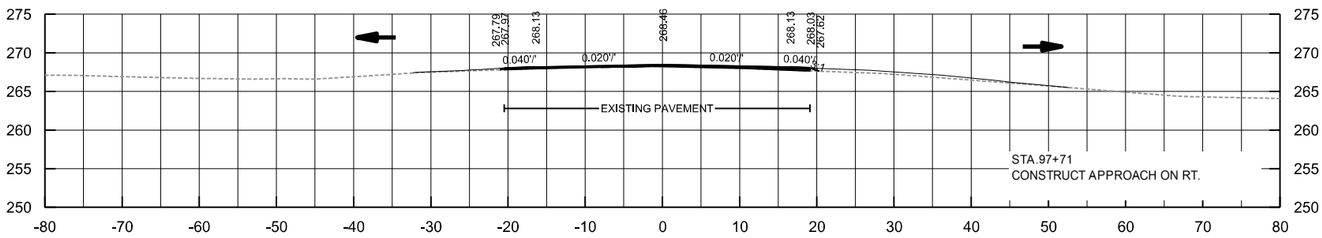
93+50.00

4 CROSS SECTIONS STA. 93+50.00 TO 95+50.00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	C32005	74	104

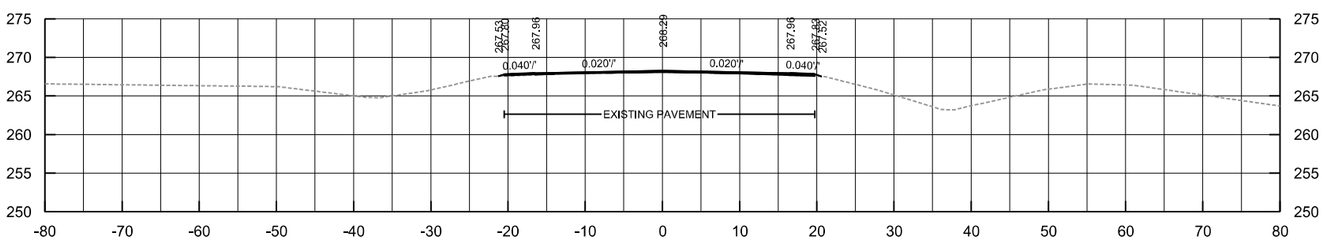
JOB NO.

98+00.00



97+71.00

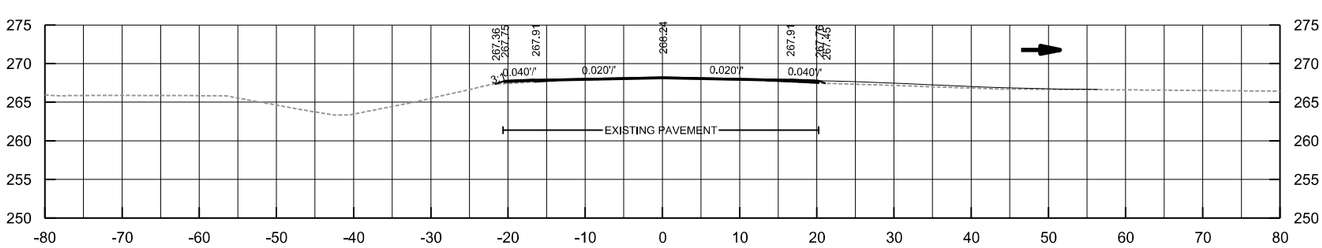
97+50.00



97+00.00

96+50.00

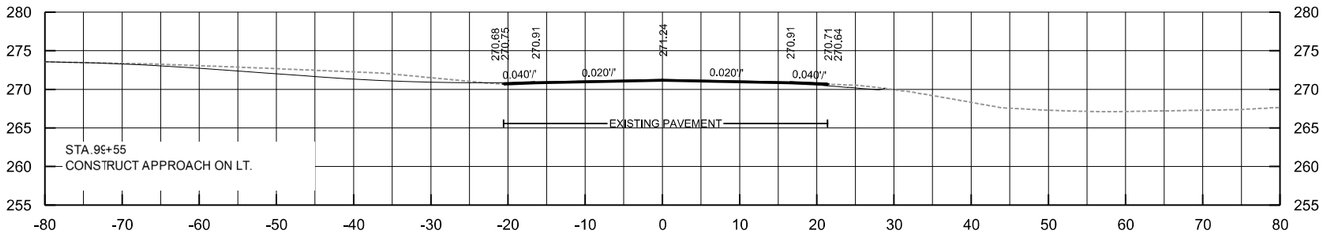
96+10.00



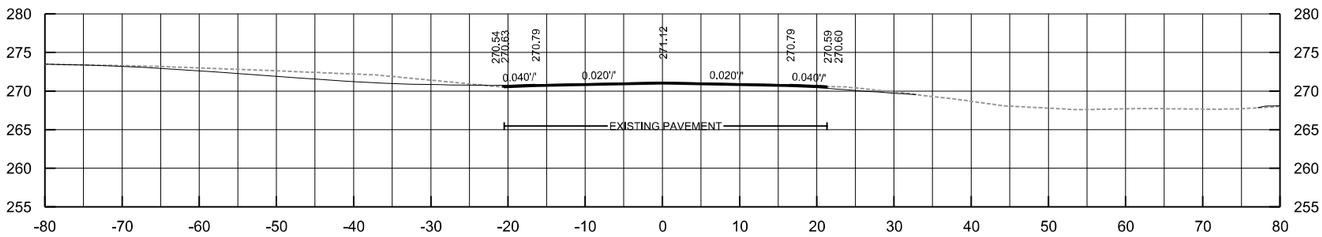
96+00.00

DATE REVISED	DATE PLANED	DATE REVISED	DATE PLANED	FEDERAL DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	C32005	75	104

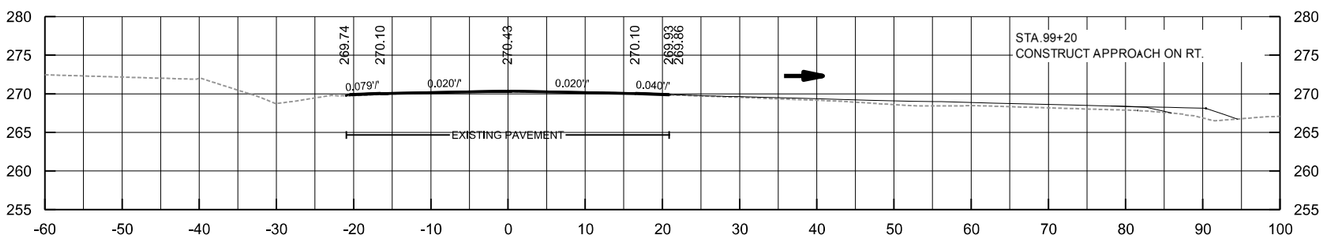
4 CROSS SECTIONS STA. 96+00.00 TO 98+00.00



99+55.00



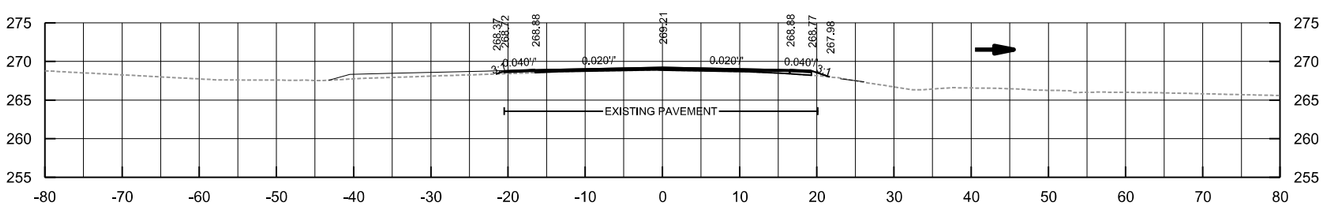
99+50.00



99+20.00

99+12.00

99+00.00



98+50.00

98+17.00

DATE REVISED	DATE PLANED	DATE REVISED	DATE PLANED

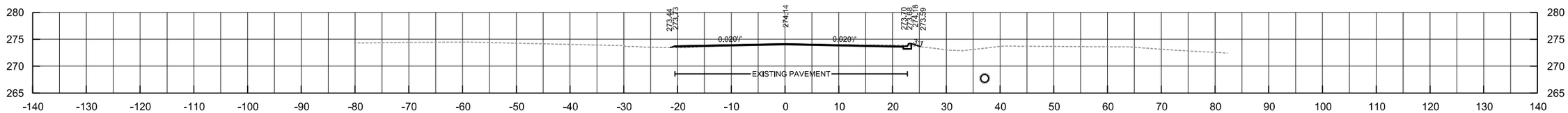
4 CROSS SECTIONS STA. 98+17.00 TO 99+55.00

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.	C32005	76	104

JOB NO.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		C32005	77	104

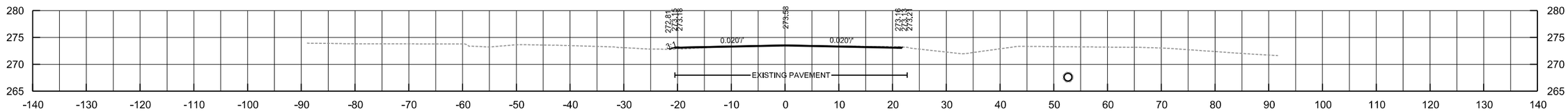
4 CROSS SECTIONS STA. 99+80.00 TO 100+60.00



AREA CUT 0.00
AREA FILL 1.23

100+60.00

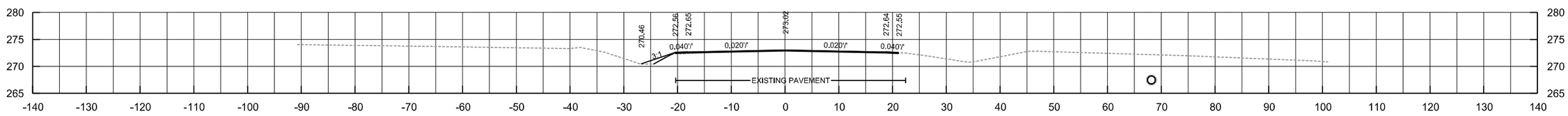
CUT VOLUME 0
FILL VOLUME 1



AREA CUT 0.02
AREA FILL 0.76

100+40.00

CUT VOLUME 0
FILL VOLUME 1



AREA CUT 0.00
AREA FILL 2.84

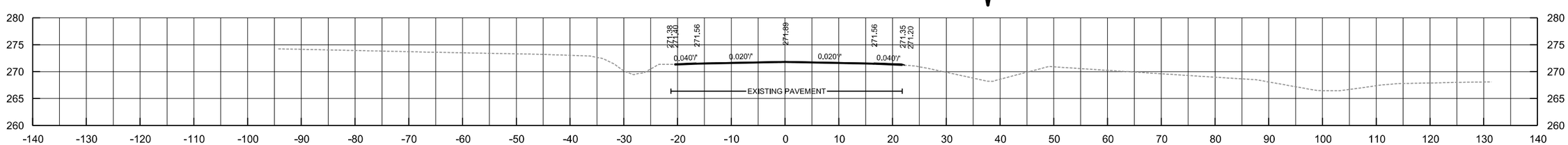
100+20.00

CUT VOLUME 0
FILL VOLUME 1

AREA CUT 0.00
AREA FILL 1.18

100+00.00

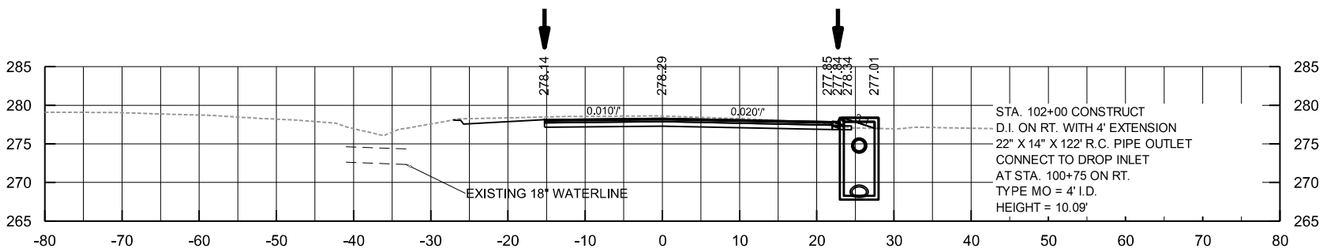
CUT VOLUME 0
FILL VOLUME 0



AREA CUT 0.00
AREA FILL 0.03

99+80.00

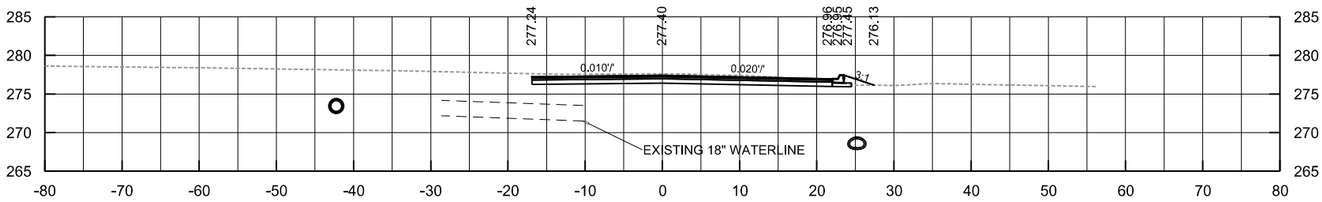
CUT VOLUME 0
FILL VOLUME 0



AREA CUT 45.84
AREA FILL 2.26

102+00.00

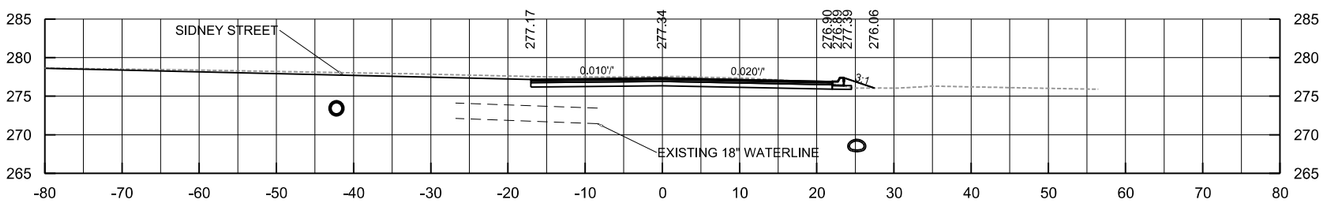
CUT VOLUME 43
FILL VOLUME 2



AREA CUT 46.90
AREA FILL 2.29

101+75.00

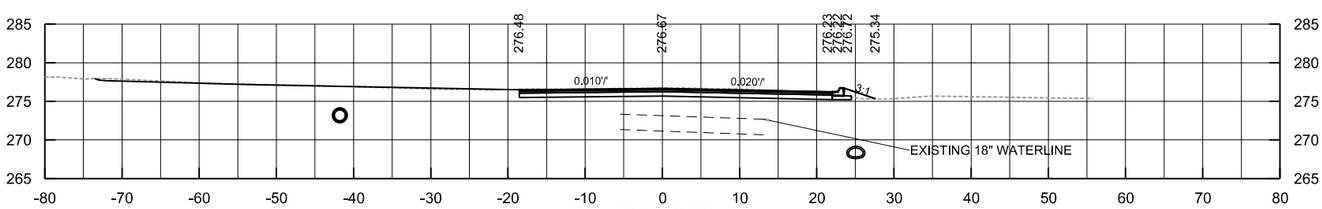
CUT VOLUME 3
FILL VOLUME 0



AREA CUT 46.61
AREA FILL 2.32

101+73.00

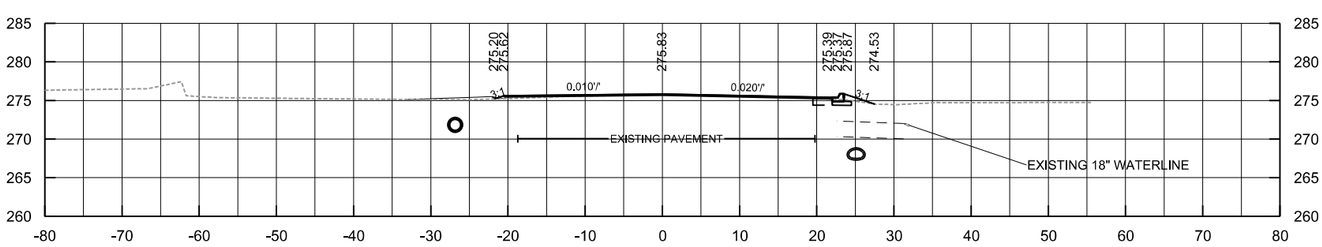
CUT VOLUME 38
FILL VOLUME 2



AREA CUT 43.27
AREA FILL 2.32

101+50.00
BEGIN FULL DEPTH SECTION

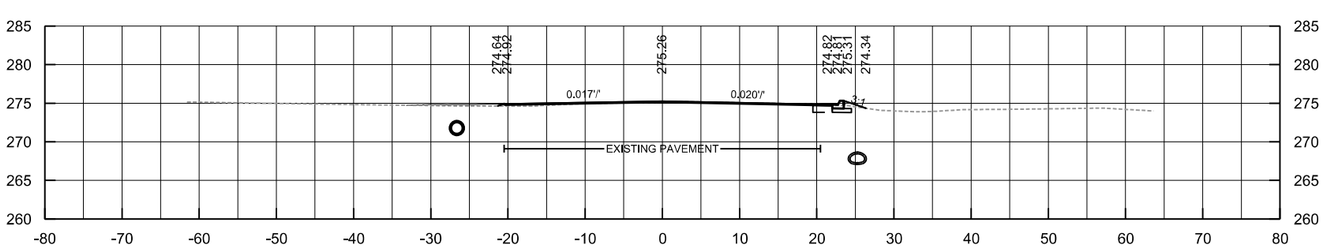
CUT VOLUME 28
FILL VOLUME 2



AREA CUT 7.02
AREA FILL 1.74

101+20.00

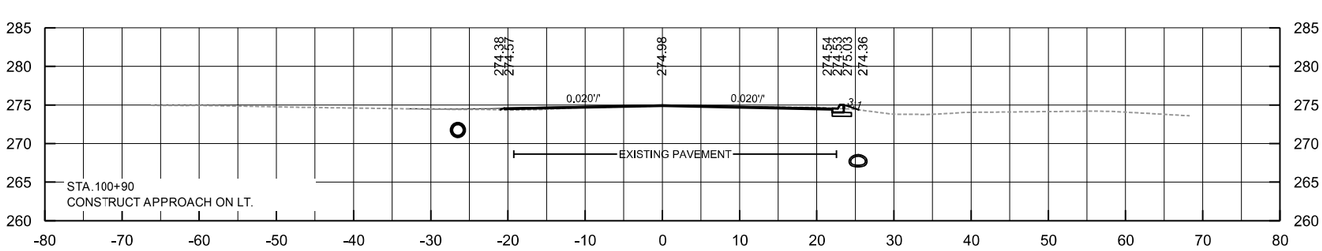
CUT VOLUME 6
FILL VOLUME 1



AREA CUT 7.94
AREA FILL 0.94

101+00.00

CUT VOLUME 3
FILL VOLUME 0



AREA CUT 6.78
AREA FILL 0.52

100+90.00

CUT VOLUME 4
FILL VOLUME 0

AREA CUT 7.75
AREA FILL 0.26

100+75.00

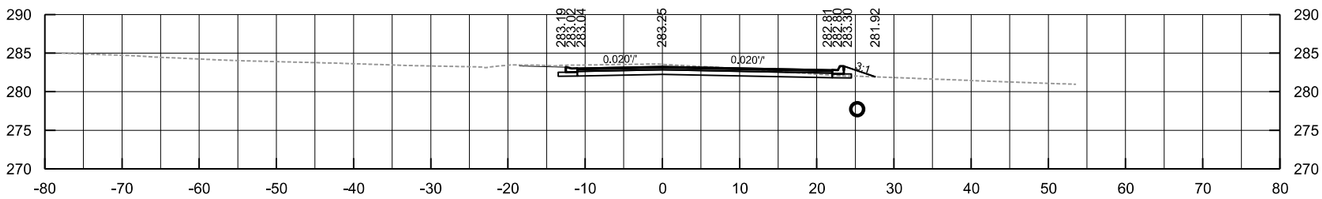
CUT VOLUME 0
FILL VOLUME 1

4 CROSS SECTIONS STA. 100+75.00 TO 102+00.00

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.	C32005	78	104

JOB NO.

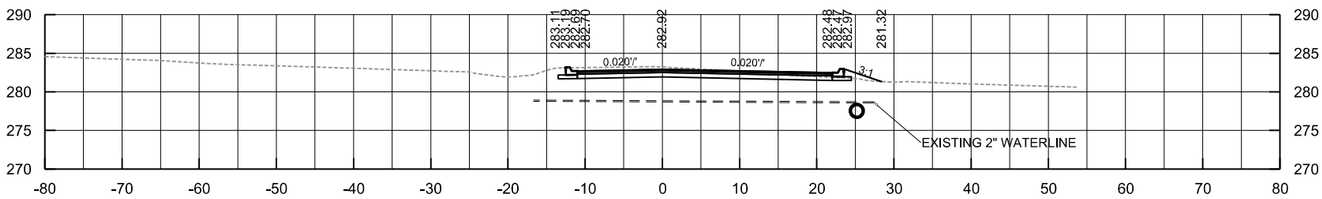
DATE REVISED	DATE PLANED	DATE REVISED	DATE PLANED
05-09-2025			



AREA CUT 37.78
AREA FILL 2.29

103+19.66
BEGIN MODIFIED CURB ON LT.

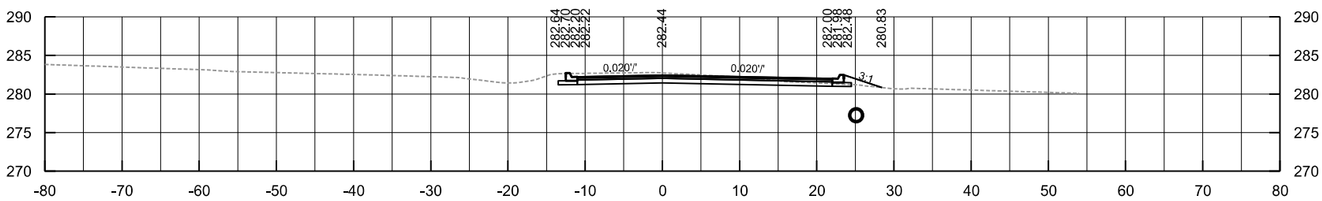
CUT VOLUME 11
FILL VOLUME 1



AREA CUT 38.41
AREA FILL 2.63

103+11.66
BEGIN TRANSITION
TO MODIFIED CURB ON LT.

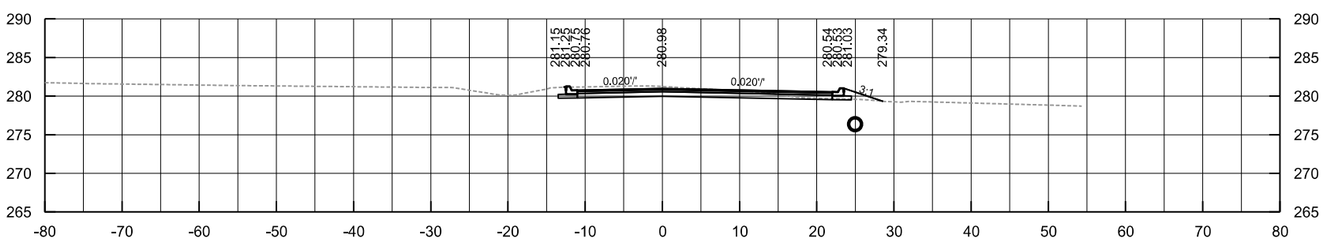
CUT VOLUME 16
FILL VOLUME 1



AREA CUT 37.94
AREA FILL 2.62

103+00.00

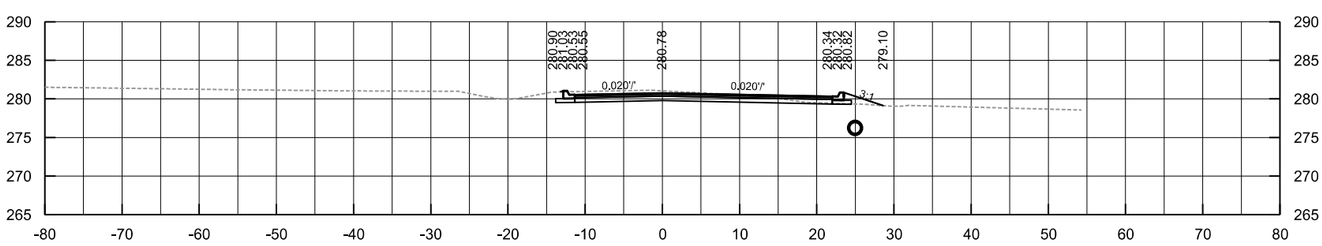
CUT VOLUME 47
FILL VOLUME 4



AREA CUT 35.29
AREA FILL 2.94

102+65.00

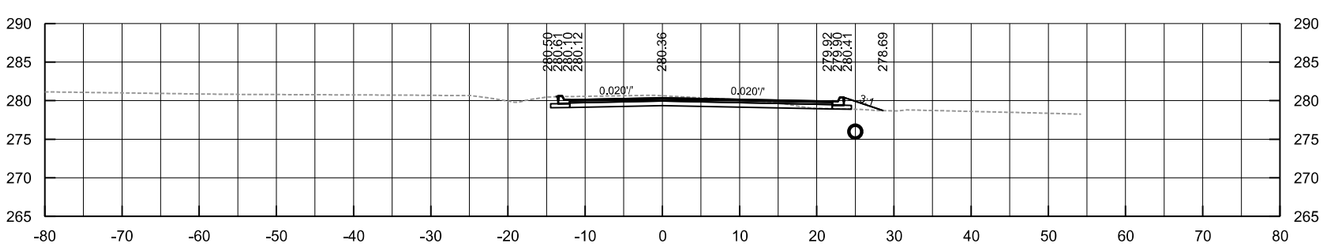
CUT VOLUME 7
FILL VOLUME 1



AREA CUT 35.83
AREA FILL 3.06

102+60.00

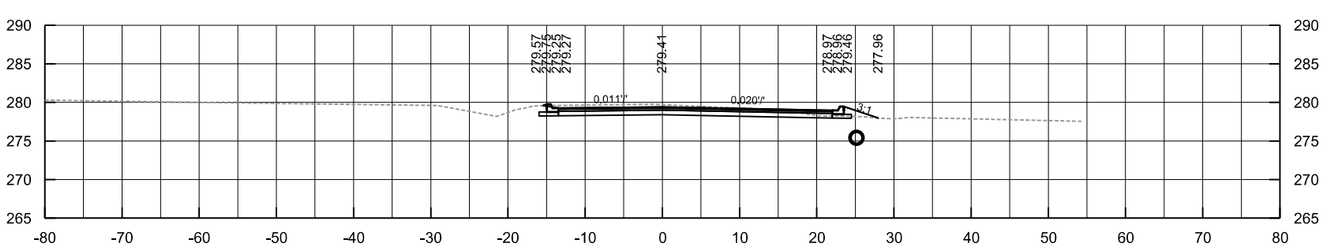
CUT VOLUME 13
FILL VOLUME 1



AREA CUT 37.05
AREA FILL 3.25

102+50.00

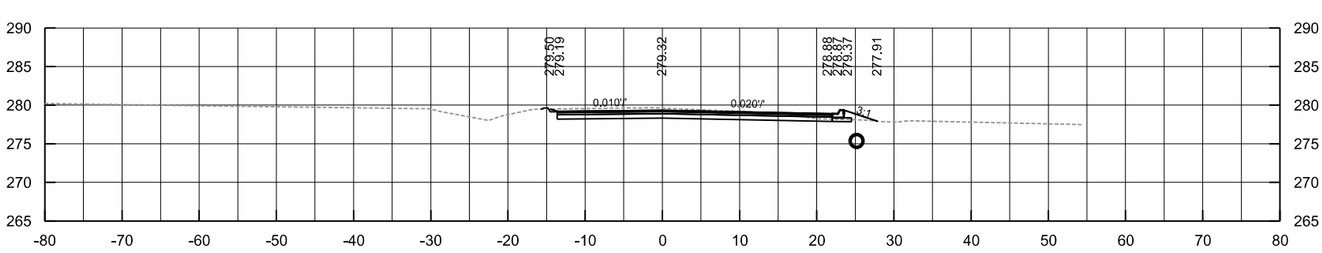
CUT VOLUME 33
FILL VOLUME 2



AREA CUT 42.07
AREA FILL 2.38

102+27.23

CUT VOLUME 3
FILL VOLUME 0



AREA CUT 39.62
AREA FILL 2.27

102+25.00

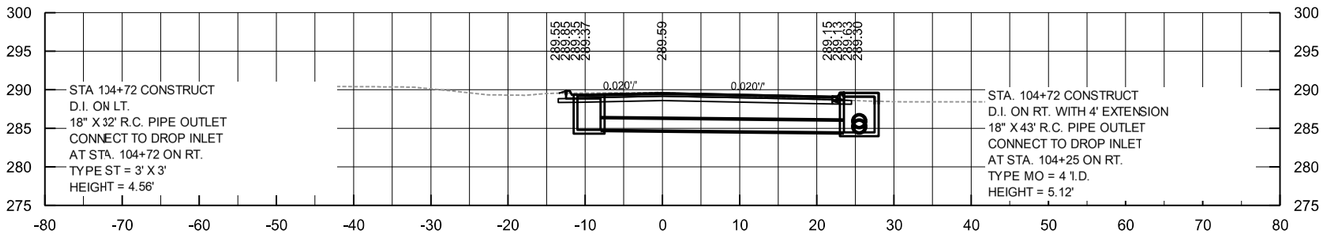
CUT VOLUME 40
FILL VOLUME 2

4 CROSS SECTIONS STA. 102+25.00 TO 103+19.66

DATE REVISED	DATE PLANED	DATE REVISED	DATE PLANED
05-09-2025			

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.	C32005	79	104

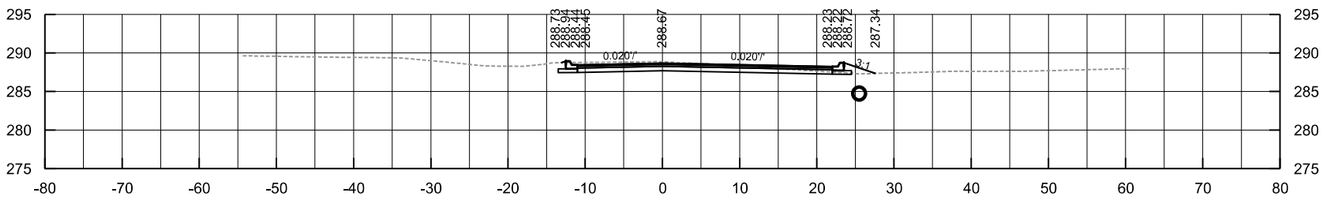
JOB NO.



AREA CUT 33.88
AREA FILL 0.00

104+72.00

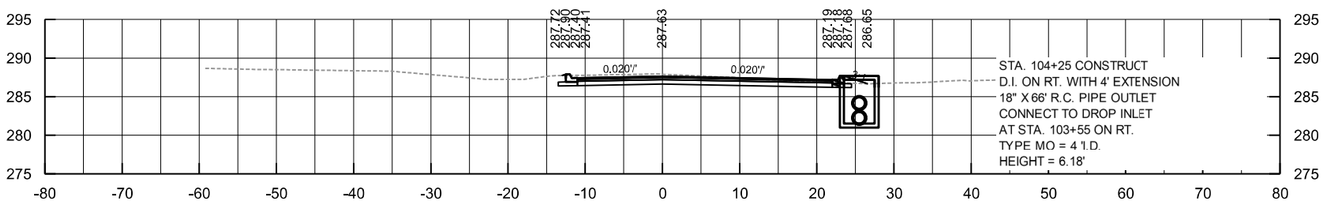
CUT VOLUME 28
FILL VOLUME 1



AREA CUT 34.54
AREA FILL 2.56

104+50.00

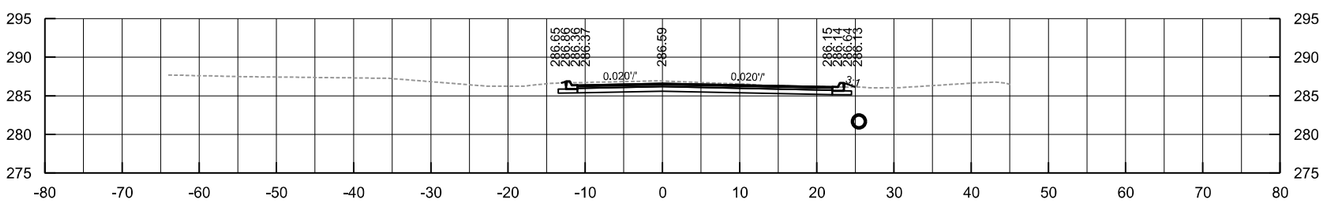
CUT VOLUME 35
FILL VOLUME 2



AREA CUT 40.02
AREA FILL 1.36

104+25.00

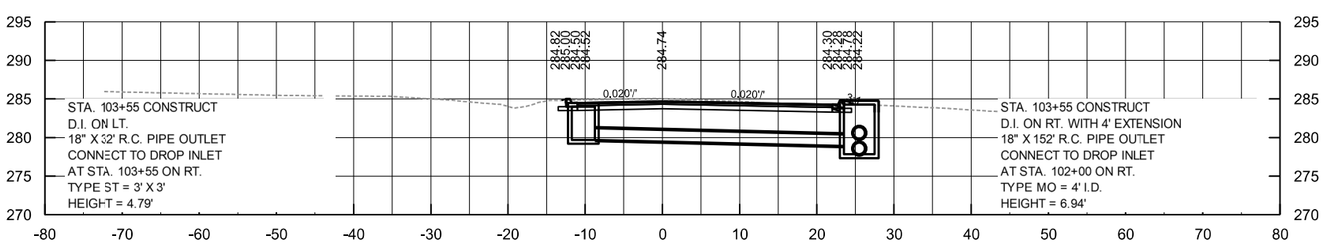
CUT VOLUME 39
FILL VOLUME 1



AREA CUT 44.43
AREA FILL 0.38

104+00.00

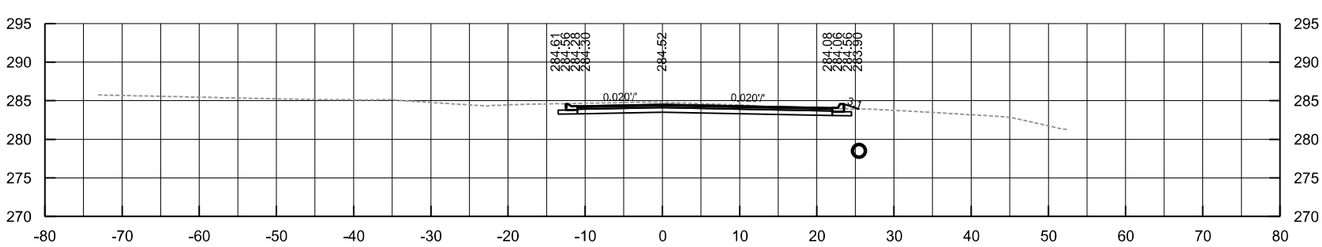
CUT VOLUME 73
FILL VOLUME 1



AREA CUT 44.19
AREA FILL 0.45

103+55.31
RESUME FULL CURB ON LT.

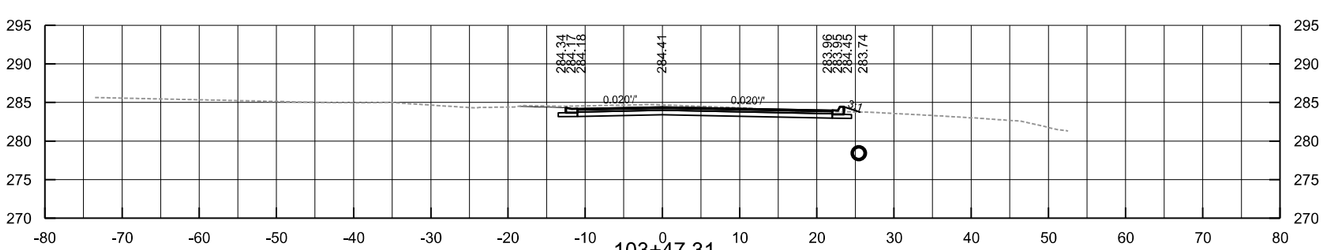
CUT VOLUME 9
FILL VOLUME 0



AREA CUT 43.12
AREA FILL 0.61

103+50.00

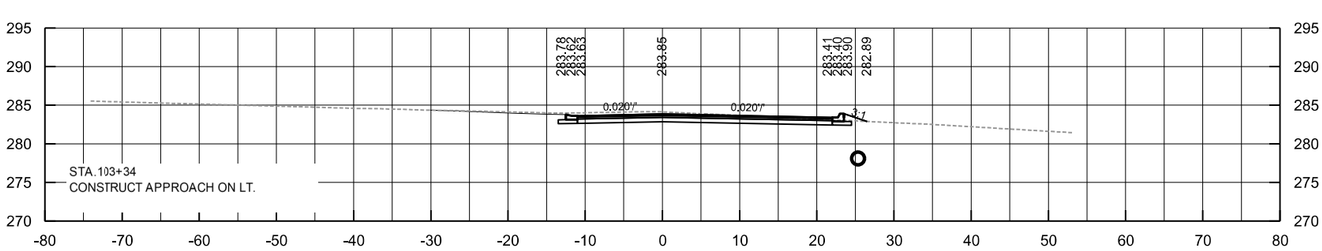
CUT VOLUME 4
FILL VOLUME 0



AREA CUT 42.81
AREA FILL 0.70

103+47.31
BEGIN TRANSITION
TO FULL CURB ON LT.

CUT VOLUME 21
FILL VOLUME 0



AREA CUT 41.22
AREA FILL 1.28

103+34.00

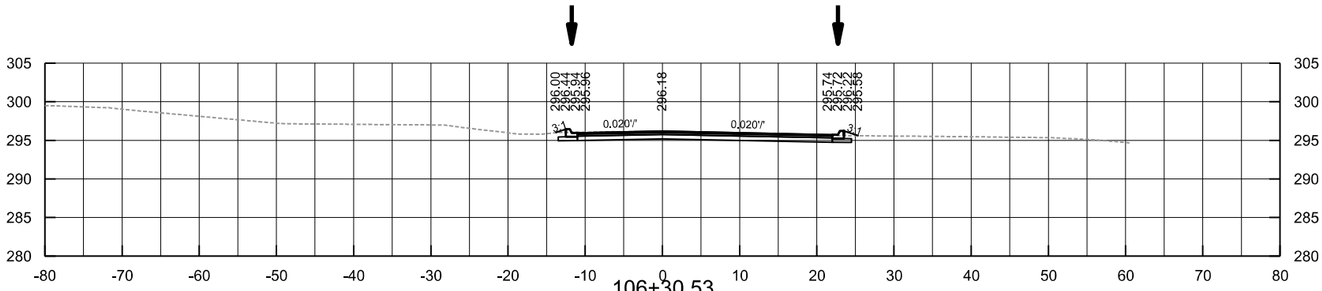
CUT VOLUME 21
FILL VOLUME 1

DATE REVISED	DATE PLANED	DATE REVISED	DATE PLANED

4 CROSS SECTIONS STA. 103+34.00 TO 104+72.00

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.	C32005	80	104

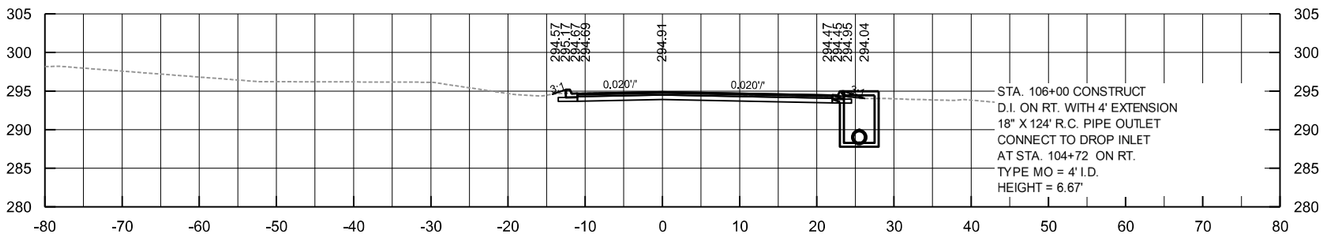
JOB NO.



AREA CUT 35.07
AREA FILL 0.90

106+30.53
BEGIN TRANSITION
TO MODIFIED CURB ON RT.

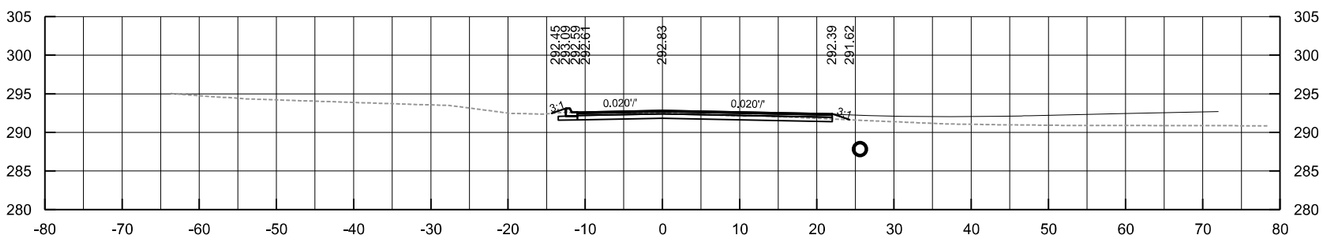
CUT VOLUME 39
FILL VOLUME 1



AREA CUT 33.33
AREA FILL 0.53

106+00.00

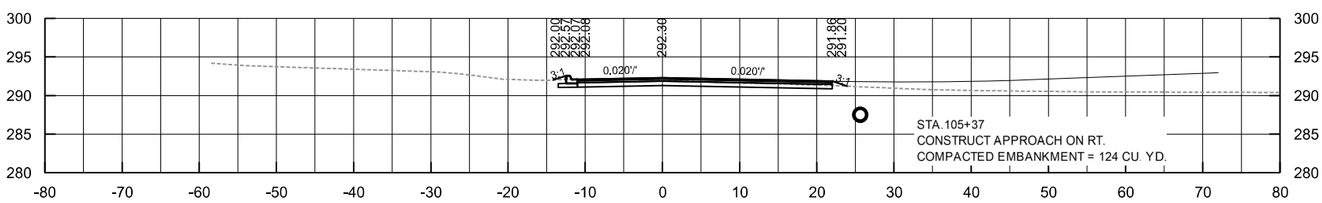
CUT VOLUME 52
FILL VOLUME 2



AREA CUT 22.43
AREA FILL 1.22

105+50.00

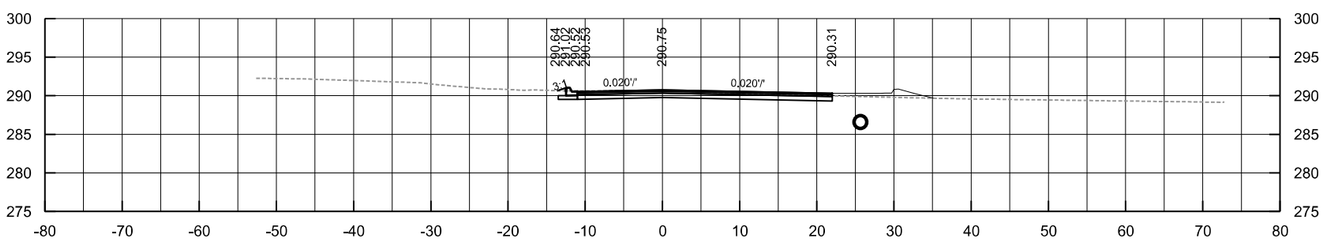
CUT VOLUME 11
FILL VOLUME 1



AREA CUT 23.54
AREA FILL 0.95

105+37.26

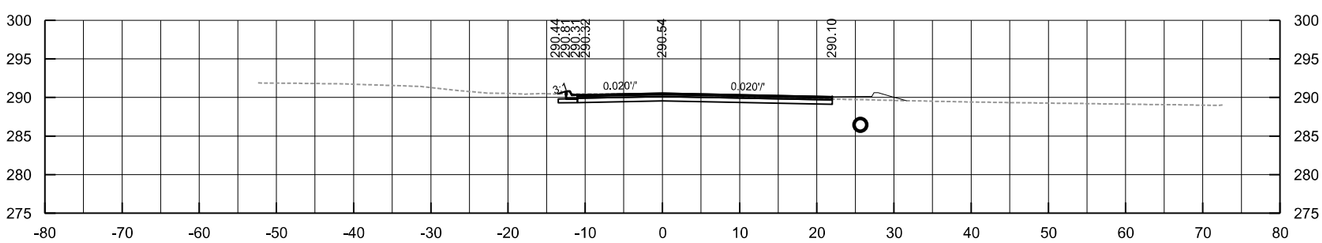
CUT VOLUME 37
FILL VOLUME 1



AREA CUT 29.44
AREA FILL 0.21

105+00.00

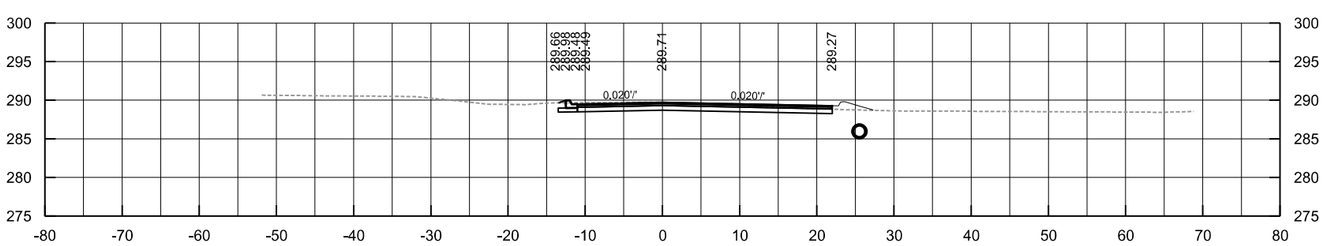
CUT VOLUME 6
FILL VOLUME 0



AREA CUT 30.01
AREA FILL 0.21

104+95.00

CUT VOLUME 23
FILL VOLUME 0



AREA CUT 32.26
AREA FILL 0.00

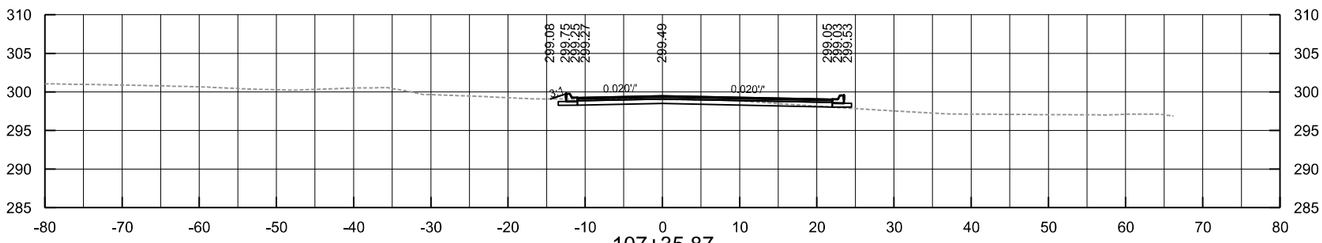
104+75.00

CUT VOLUME 4
FILL VOLUME 0

DATE REVISED	DATE PLANED	DATE REVISED	DATE PLANED	FEDERAL DIST. NO.	6
				STATE	ARK.
				FED.AID PROJ.NO.	C32005
				SHEET NO.	81
				TOTAL SHEETS	104

4 CROSS SECTIONS STA. 104+75.00 TO 106+30.53

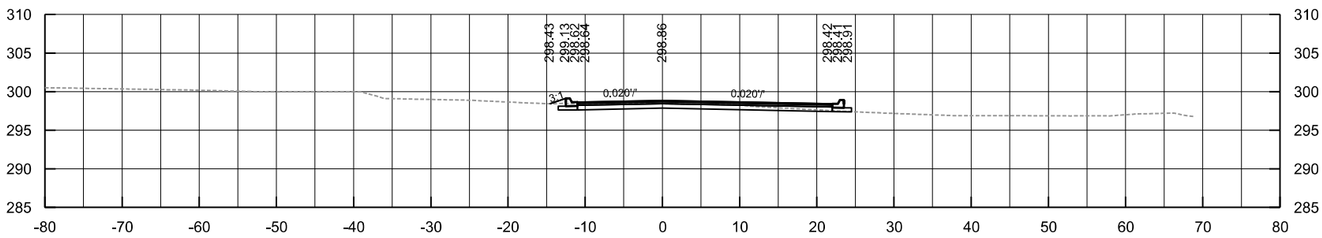
JOB NO.



AREA CUT 18.00
AREA FILL 0.92

107+35.87
END TRANSITION
RESUME FULL CURB ON RT.

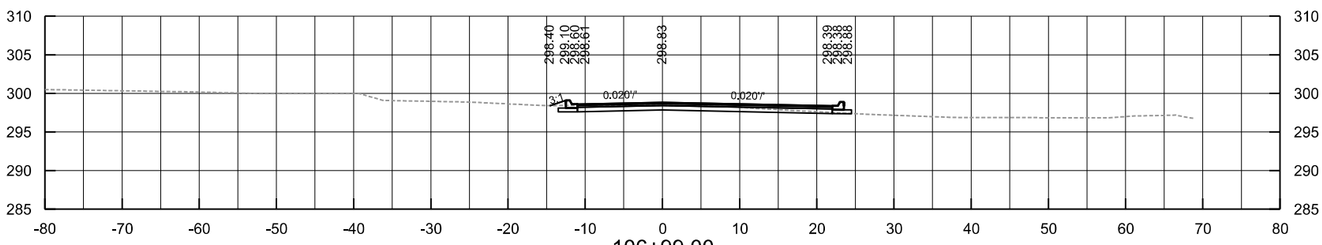
CUT VOLUME 25
FILL VOLUME 1



AREA CUT 19.57
AREA FILL 0.68

107+00.00

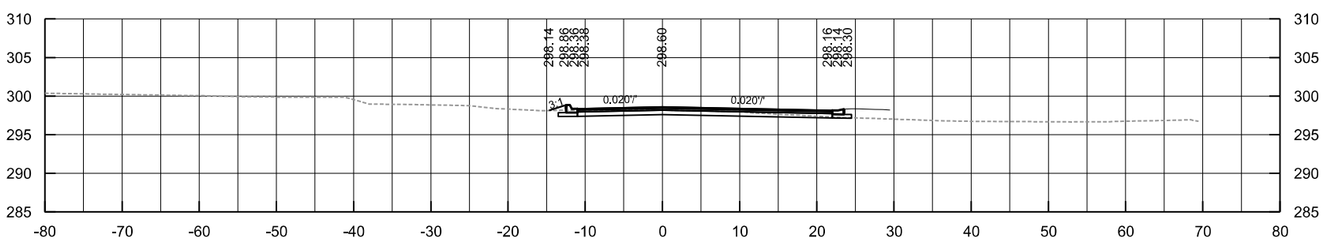
CUT VOLUME 1
FILL VOLUME 0



AREA CUT 19.85
AREA FILL 0.68

106+99.00
END TRANSITION
RESUME FULL CURB ON RT.

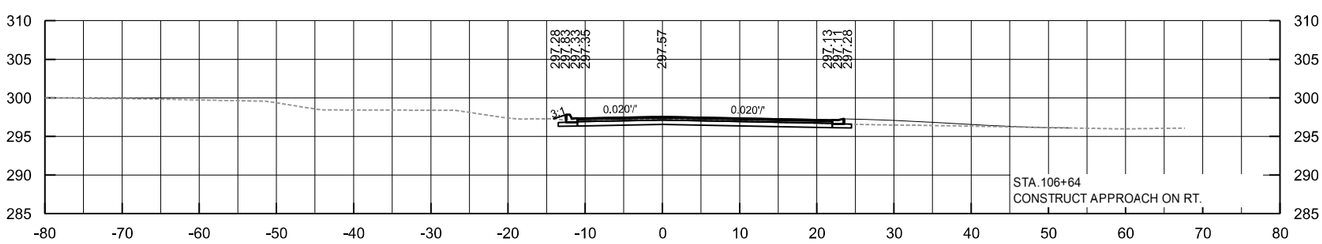
CUT VOLUME 6
FILL VOLUME 0



AREA CUT 19.58
AREA FILL 0.74

106+91.00
END MODIFIED CURB BEGIN
TRANSITION TO FULL CURB ON RT.

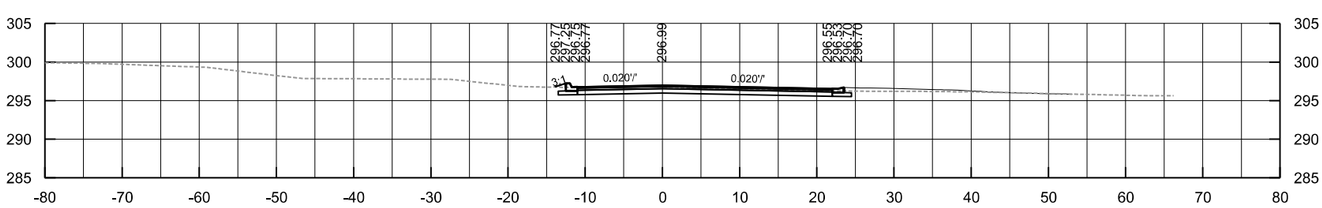
CUT VOLUME 22
FILL VOLUME 1



AREA CUT 25.22
AREA FILL 0.58

106+64.00

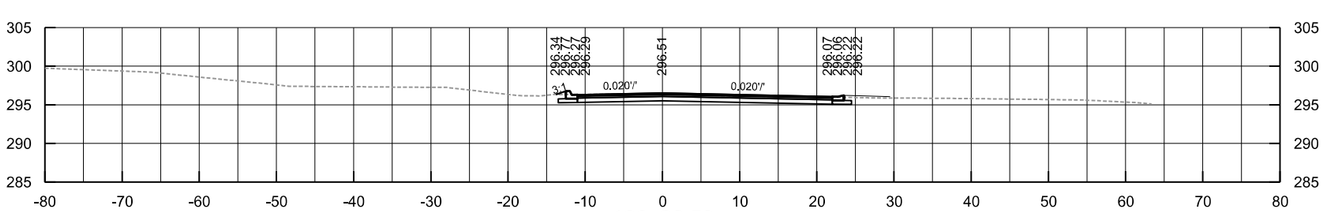
CUT VOLUME 14
FILL VOLUME 0



AREA CUT 30.03
AREA FILL 0.41

106+50.00

CUT VOLUME 14
FILL VOLUME 0



AREA CUT 33.70
AREA FILL 0.29

106+38.53
END TRANSITION
BEGIN MODIFIED CURB ON RT.

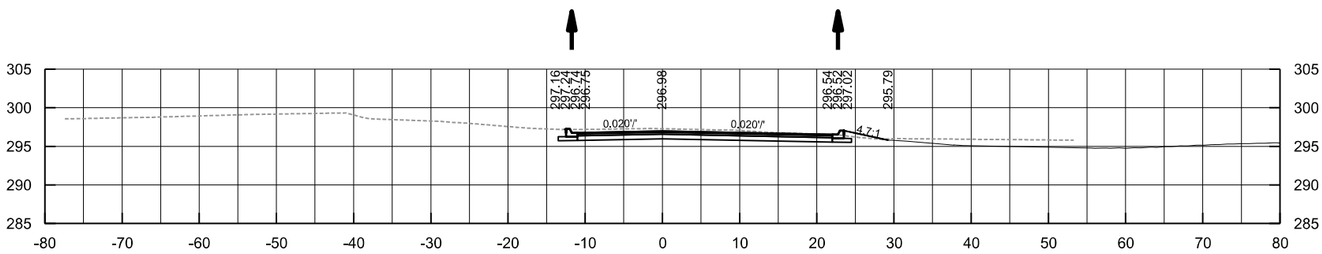
CUT VOLUME 10
FILL VOLUME 0

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FEDERAL DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.	C32005	82	104

JOB NO.

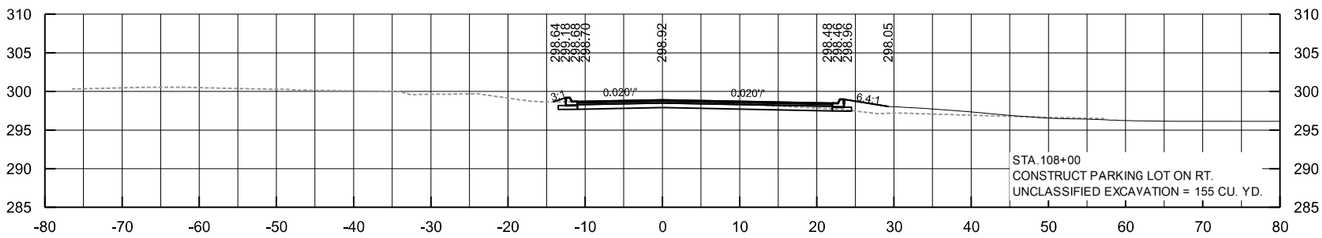
4 CROSS SECTIONS STA.106+38.53 TO 107+35.87



AREA CUT 46.67
AREA FILL 1.87

108+50.00

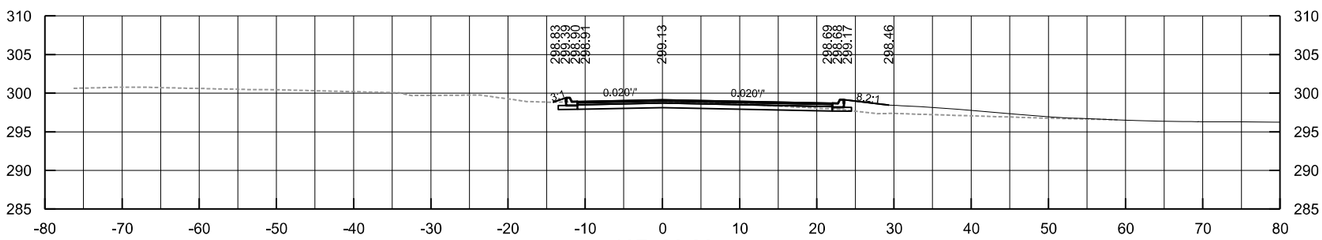
CUT VOLUME 67
FILL VOLUME 8



AREA CUT 25.91
AREA FILL 6.95

108+00.00

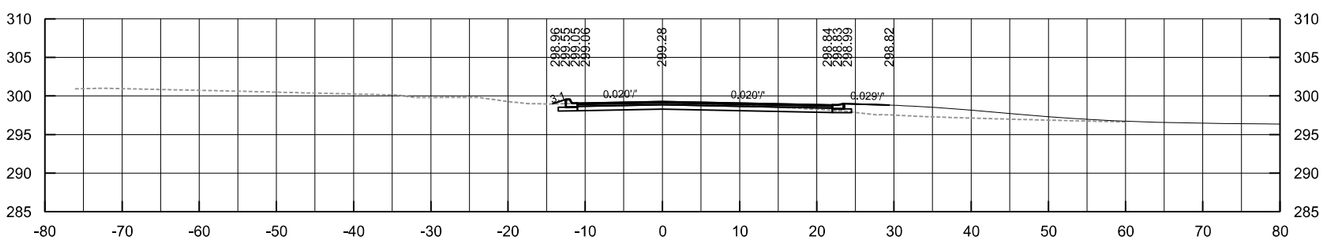
CUT VOLUME 9
FILL VOLUME 2



AREA CUT 26.04
AREA FILL 7.60

107+90.98
END TRANSITION
RESUME FULL CURB ON RT.

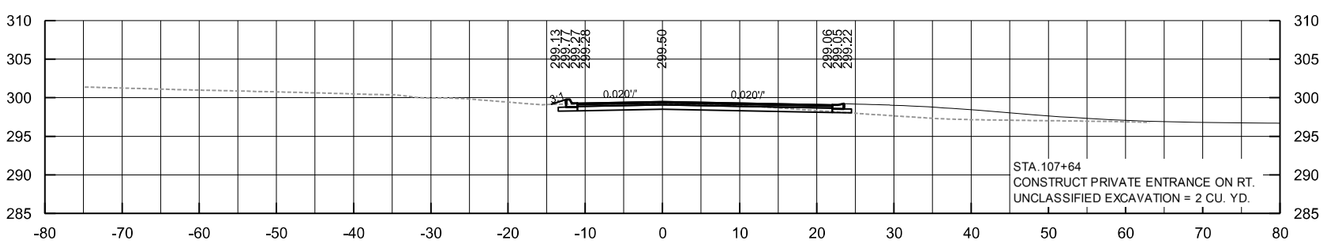
CUT VOLUME 8
FILL VOLUME 2



AREA CUT 26.73
AREA FILL 7.14

107+82.98
END MODIFIED CURB BEGIN
TRANSITION TO FULL CURB ON RT.

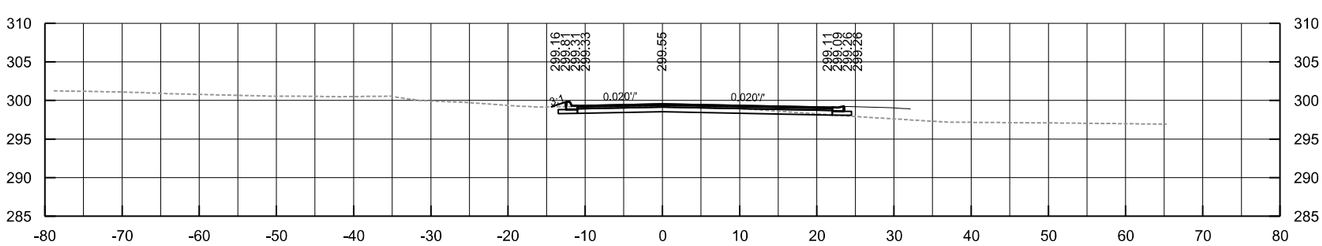
CUT VOLUME 17
FILL VOLUME 3



AREA CUT 22.60
AREA FILL 0.57

107+64.00

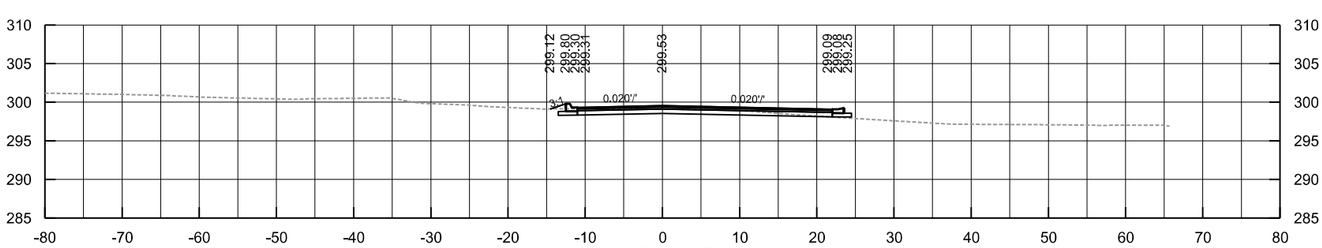
CUT VOLUME 11
FILL VOLUME 0



AREA CUT 20.04
AREA FILL 0.74

107+50.00

CUT VOLUME 4
FILL VOLUME 0



AREA CUT 18.64
AREA FILL 0.88

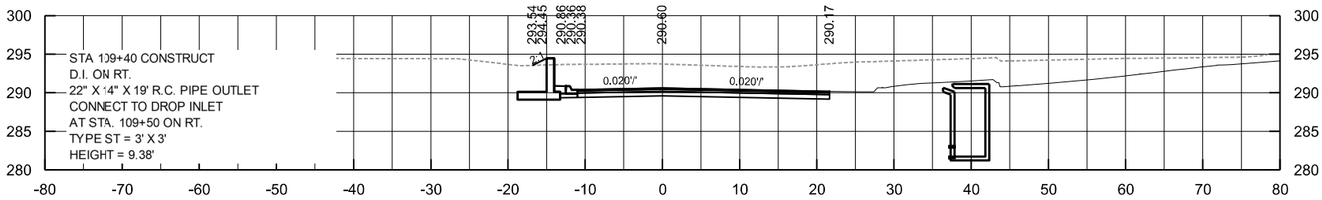
107+43.87
END TRANSITION
BEGIN MODIFIED CURB ON RT.

CUT VOLUME 5
FILL VOLUME 0

4 CROSS SECTIONS STA. 107+43.87 TO 108+50.00

DATE REVISED	DATE PLANED	DATE REVISED	DATE PLANED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	C32005	83	104

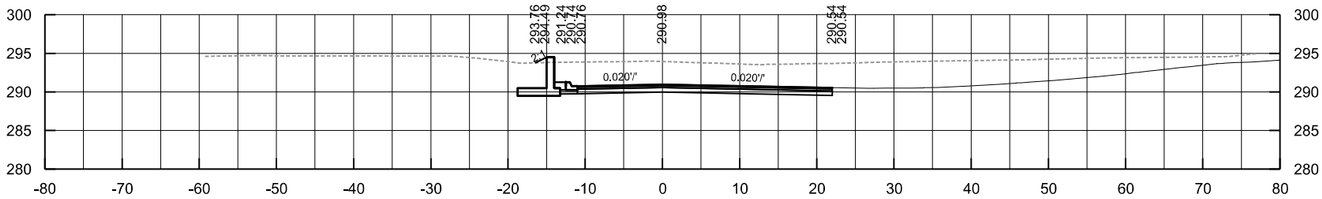
JOB NO.



AREA CUT 169.77
AREA FILL 0.00

109+40.00

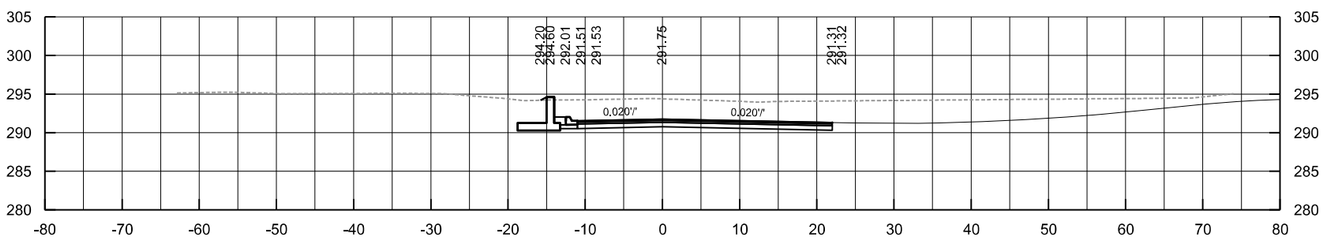
CUT VOLUME 31
FILL VOLUME 0



AREA CUT 163.81
AREA FILL 0.00

109+35.00

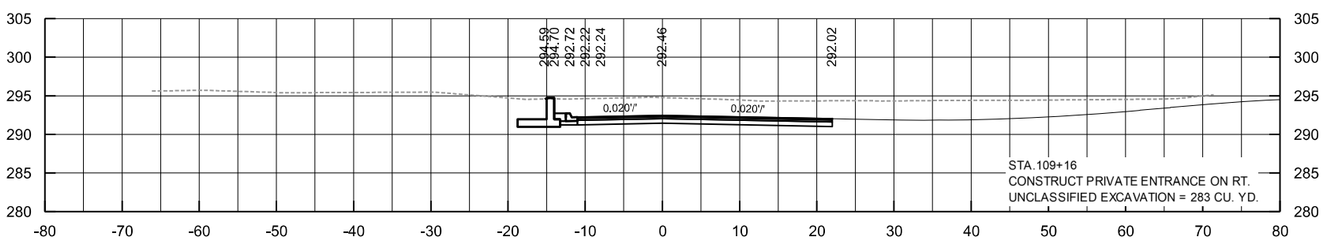
CUT VOLUME 58
FILL VOLUME 0



AREA CUT 149.64
AREA FILL 0.00

109+25.00

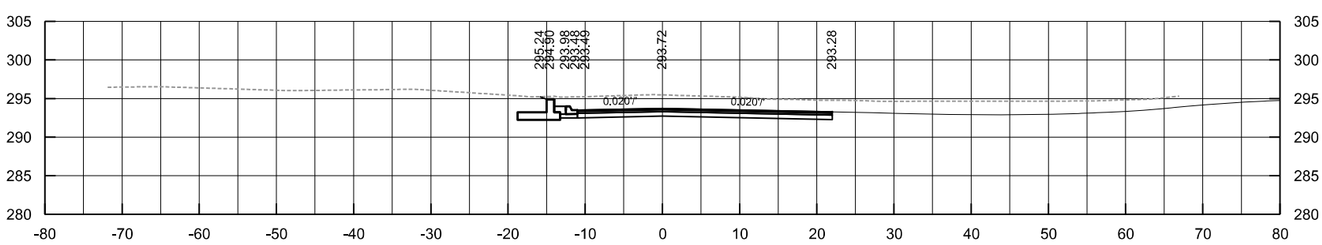
CUT VOLUME 48
FILL VOLUME 0



AREA CUT 135.52
AREA FILL 0.00

109+16.00

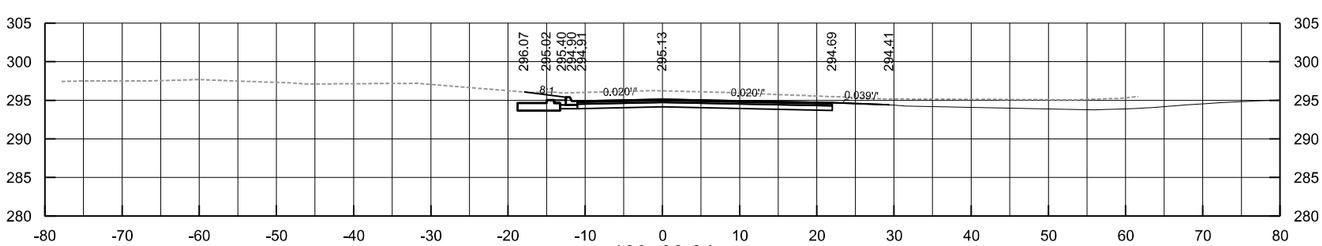
CUT VOLUME 73
FILL VOLUME 0



AREA CUT 110.35
AREA FILL 0.00

109+00.00

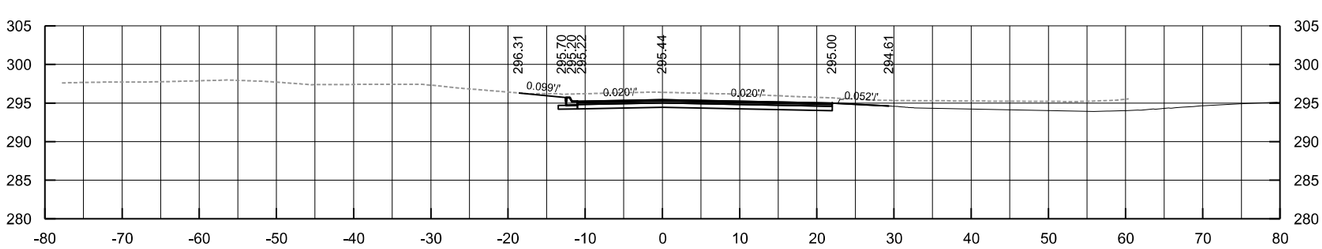
CUT VOLUME 72
FILL VOLUME 0



AREA CUT 90.18
AREA FILL 0.00

108+80.64
BEGIN RETAINING WALL ON LT.

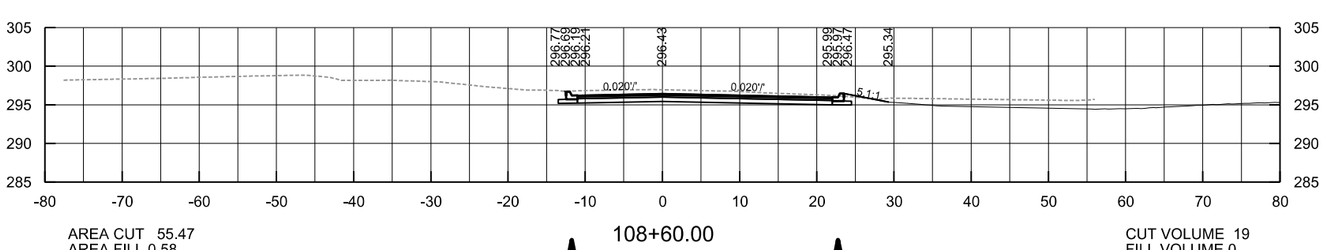
CUT VOLUME 14
FILL VOLUME 0



AREA CUT 72.20
AREA FILL 0.00

108+76.07

CUT VOLUME 38
FILL VOLUME 0



AREA CUT 55.47
AREA FILL 0.58

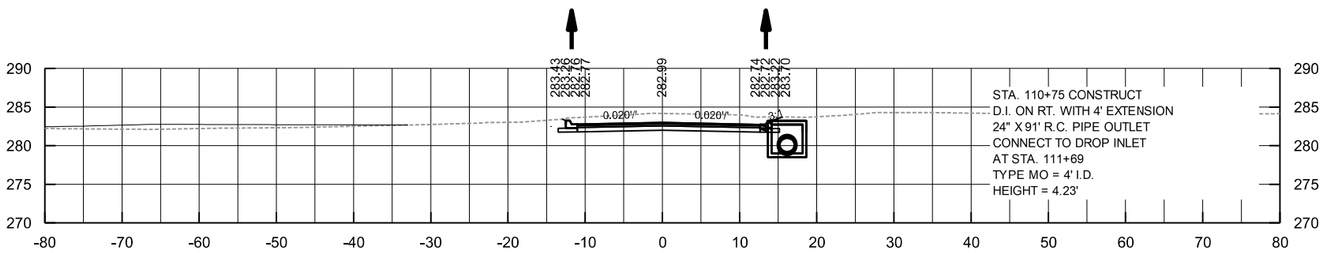
108+60.00

CUT VOLUME 19
FILL VOLUME 0

4 CROSS SECTIONS STA. 108+60.00 TO 109+40.00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	6
				STATE	ARK.
				FED.AID PROJ.NO.	C32005
				SHEET NO.	84
				TOTAL SHEETS	104

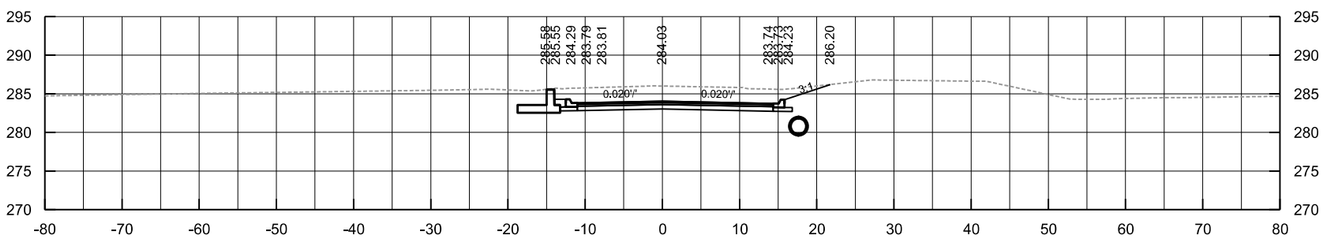
JOB NO.



AREA CUT 58.14
AREA FILL 0.00

110+75.00
END RETAINING WALL ON LT.

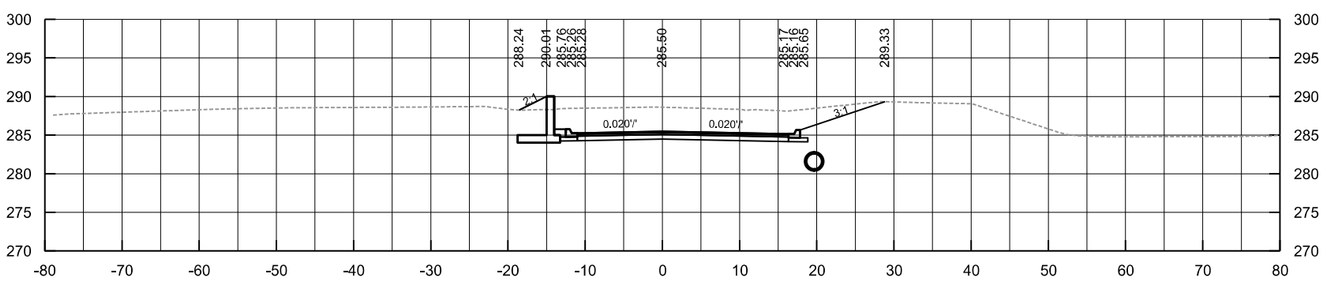
CUT VOLUME 76
FILL VOLUME 0



AREA CUT 106.56
AREA FILL 0.00

110+50.00

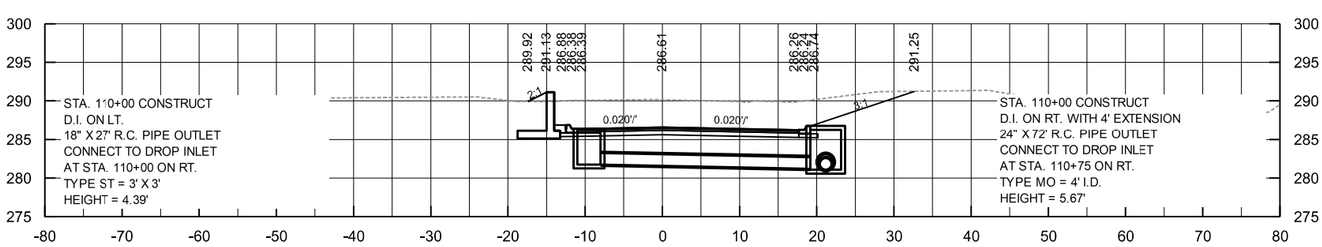
CUT VOLUME 152
FILL VOLUME 0



AREA CUT 166.52
AREA FILL 0.00

110+20.00

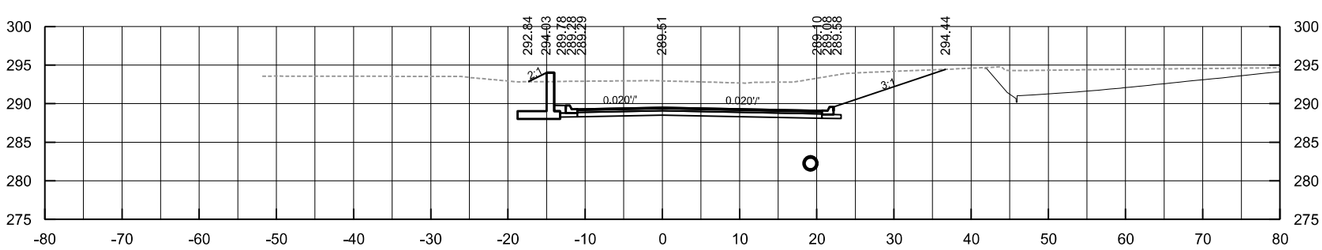
CUT VOLUME 136
FILL VOLUME 0



AREA CUT 200.38
AREA FILL 0.00

110+00.00

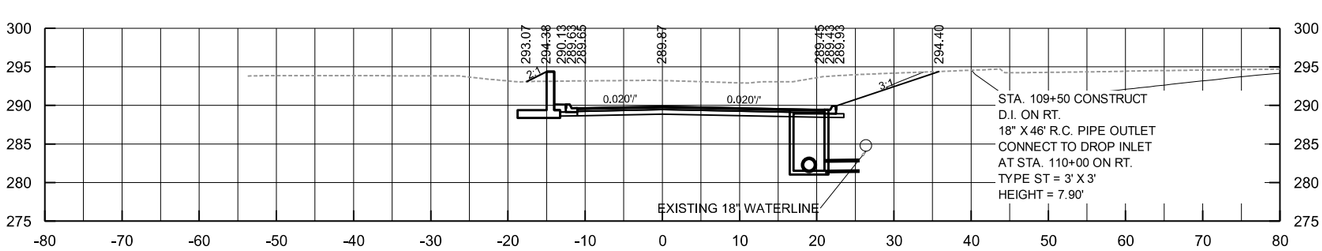
CUT VOLUME 351
FILL VOLUME 0



AREA CUT 220.39
AREA FILL 0.00

109+55.00

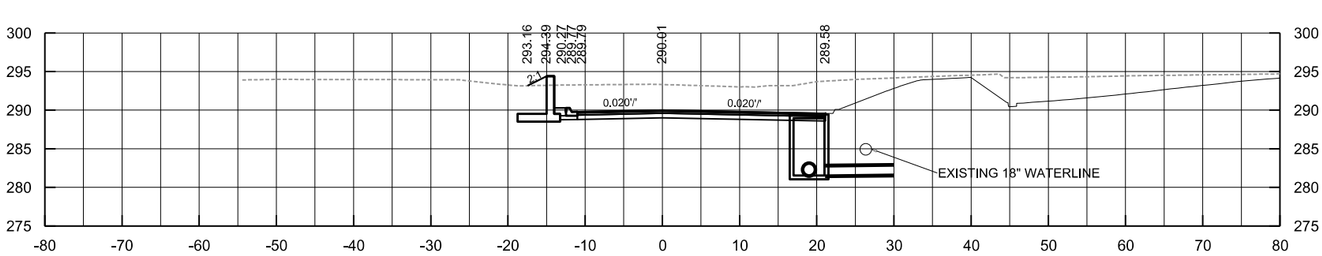
CUT VOLUME 40
FILL VOLUME 0



AREA CUT 213.71
AREA FILL 0.00

109+50.00

CUT VOLUME 14
FILL VOLUME 0



AREA CUT 177.76
AREA FILL 0.00

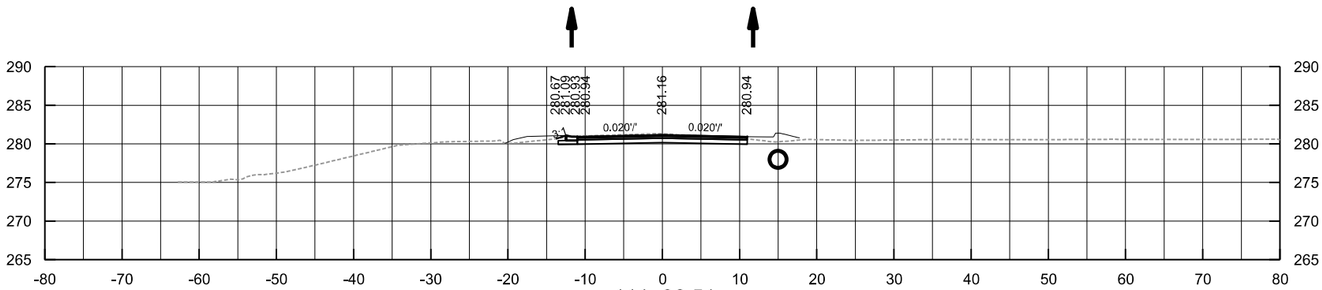
109+48.07

CUT VOLUME 52
FILL VOLUME 0

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
05-09-2025				6	ARK.	C32005	85	104

4 CROSS SECTIONS STA. 109+48.07 TO 110+75.00

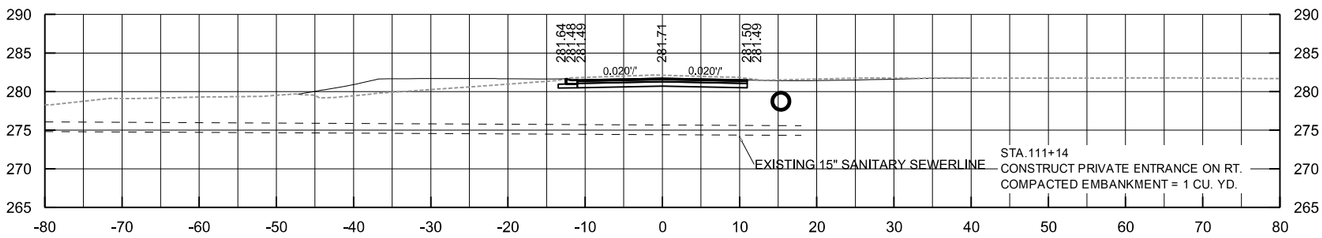
JOB NO.



AREA CUT 25.15
AREA FILL 0.14

111+36.51
END MODIFIED CURB BEGIN
TRANSITION TO FULL CURB ON LT.

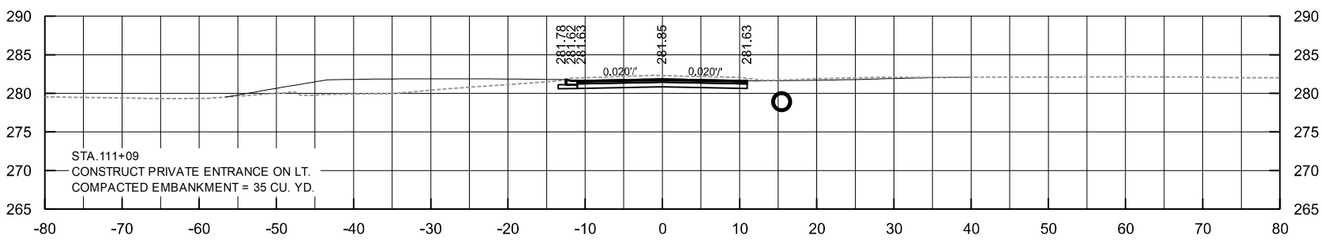
CUT VOLUME 24
FILL VOLUME 0



AREA CUT 33.31
AREA FILL 0.00

111+14.00

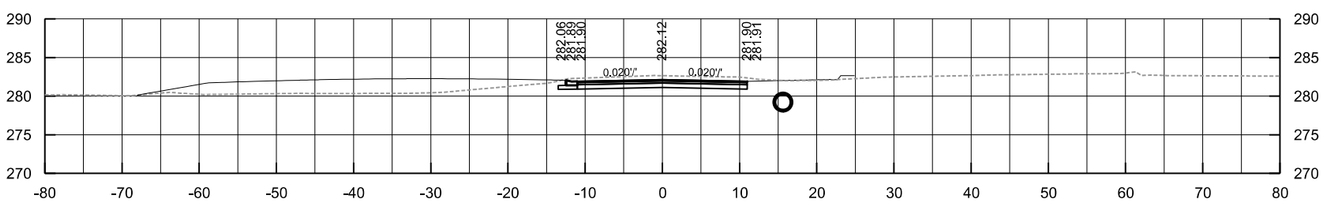
CUT VOLUME 6
FILL VOLUME 0



AREA CUT 34.55
AREA FILL 0.00

111+09.00

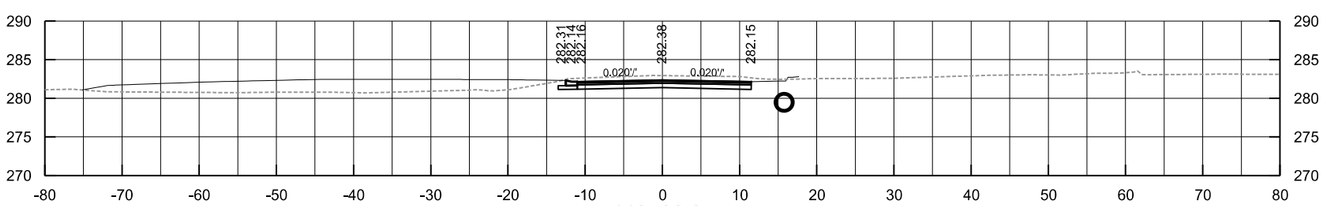
CUT VOLUME 12
FILL VOLUME 0



AREA CUT 36.43
AREA FILL 0.00

111+00.00

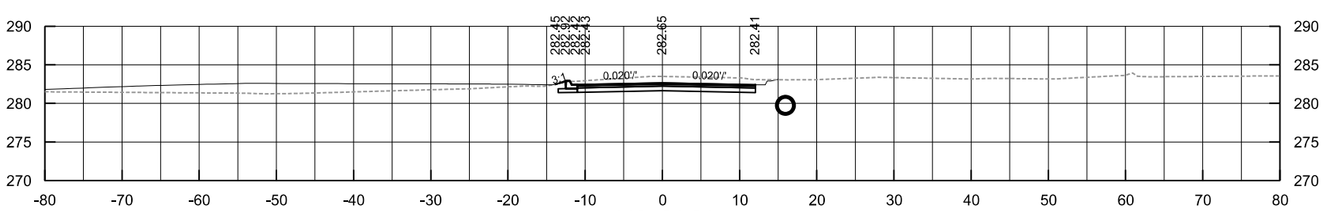
CUT VOLUME 11
FILL VOLUME 0



AREA CUT 38.41
AREA FILL 0.00

110+92.24
END TRANSITION BEGIN
MODIFIED CURB ON LT.

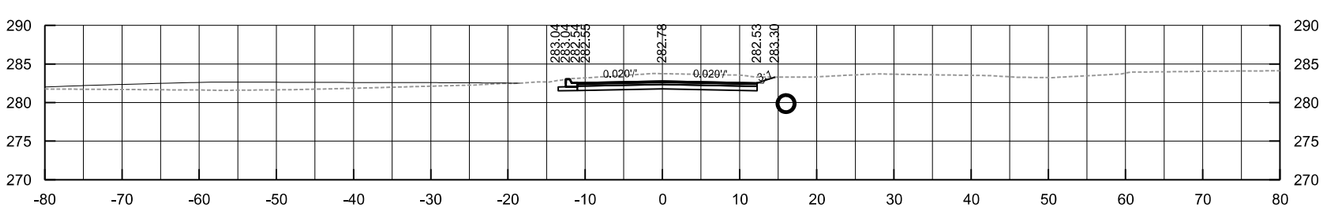
CUT VOLUME 12
FILL VOLUME 0



AREA CUT 43.33
AREA FILL 0.12

110+84.24
BEGIN TRANSITION TO
MODIFIED CURB ON LT.

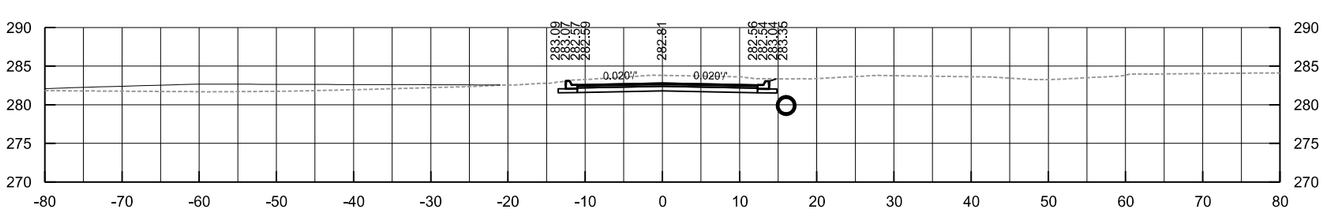
CUT VOLUME 6
FILL VOLUME 0



AREA CUT 48.70
AREA FILL 0.00

110+80.83

CUT VOLUME 2
FILL VOLUME 0



AREA CUT 53.26
AREA FILL 0.00

110+80.00

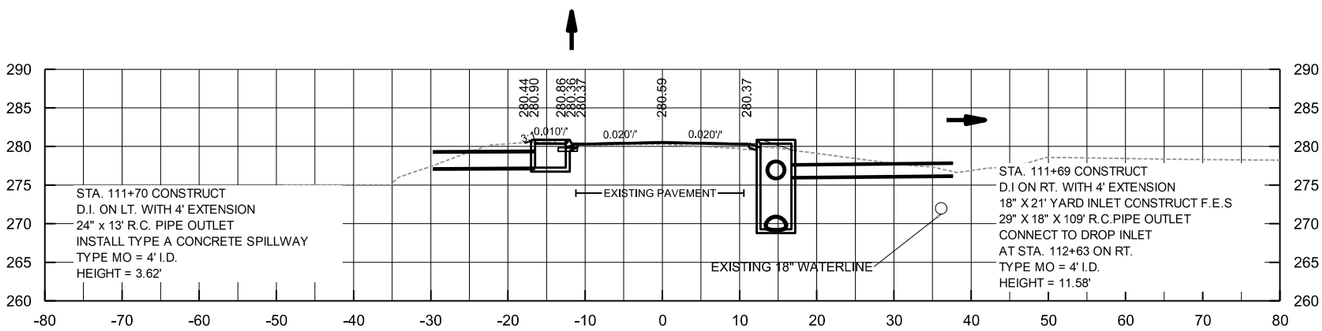
CUT VOLUME 10
FILL VOLUME 0

DATE REVISED	DATE PLANED	DATE REVISED	DATE PLANED
05-09-2025			

4 CROSS SECTIONS STA.110+80.00 TO 111+36.51

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.	C32005	86	104

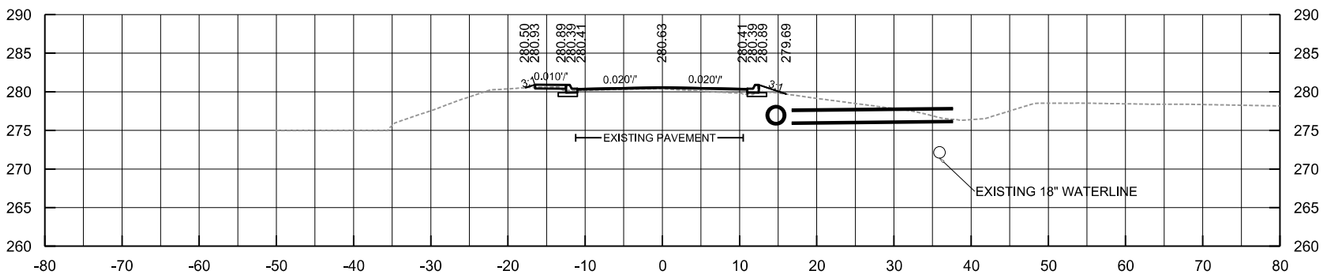
JOB NO.



AREA CUT 2.13
AREA FILL 0.36

111+70.00

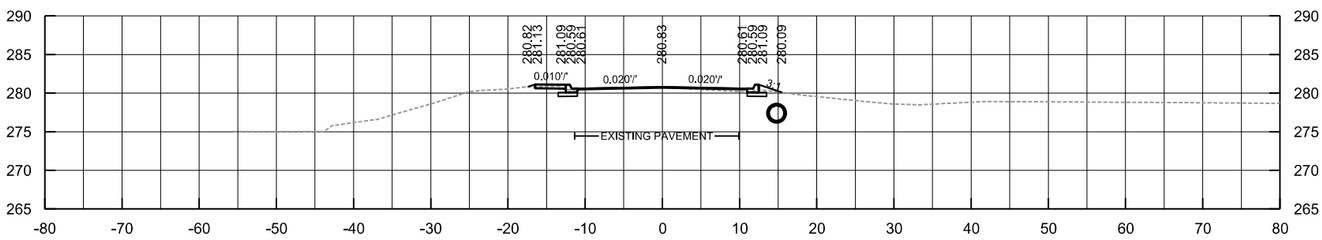
CUT VOLUME 0
FILL VOLUME 0



AREA CUT 3.33
AREA FILL 1.72

111+67.13

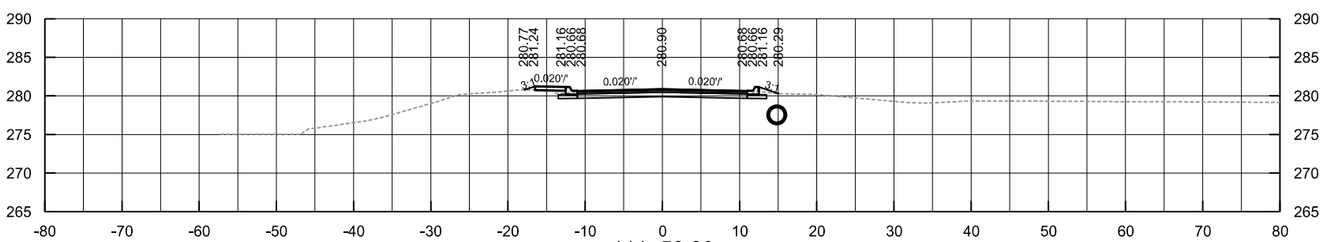
CUT VOLUME 2
FILL VOLUME 1



AREA CUT 4.87
AREA FILL 1.14

111+54.00

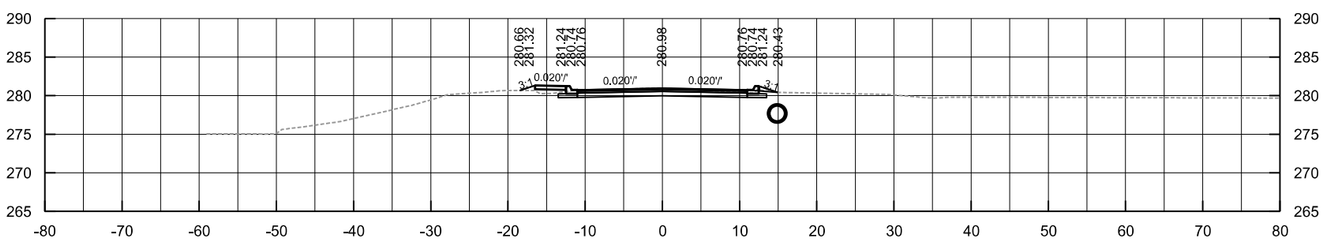
CUT VOLUME 2
FILL VOLUME 0



AREA CUT 22.03
AREA FILL 1.61

111+50.00
END FUILL DEPTH SECTION

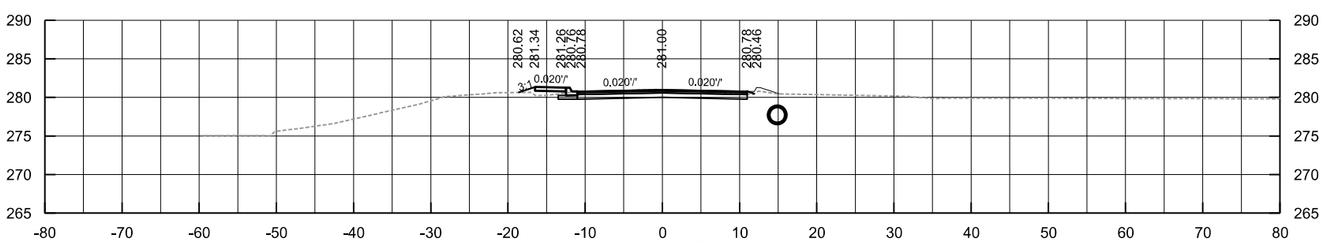
CUT VOLUME 4
FILL VOLUME 0



AREA CUT 23.32
AREA FILL 2.33

111+45.60

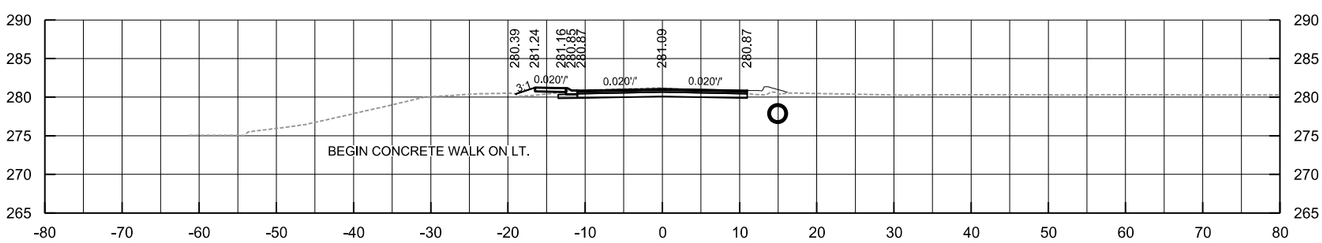
CUT VOLUME 1
FILL VOLUME 0



AREA CUT 21.93
AREA FILL 2.88

111+44.51
END TRANSITION
RESUME FULL CURB ON LT.

CUT VOLUME 4
FILL VOLUME 0



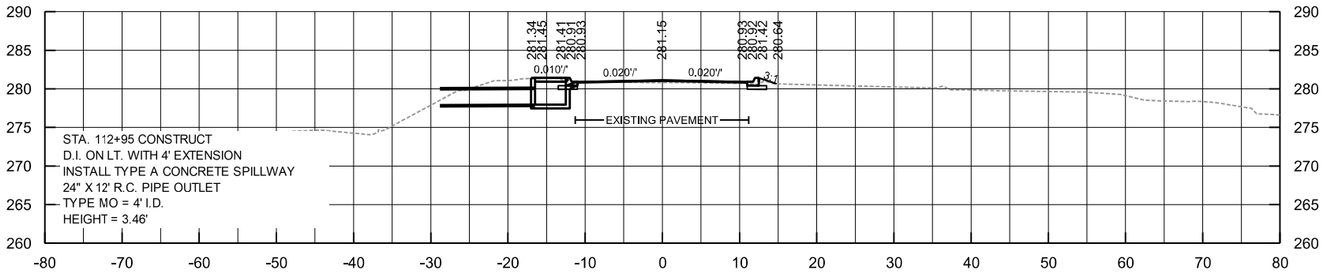
AREA CUT 23.71
AREA FILL 2.56

111+40.00

CUT VOLUME 3
FILL VOLUME 0

4 CROSS SECTIONS STA. 111+40.00 TO 111+70.00

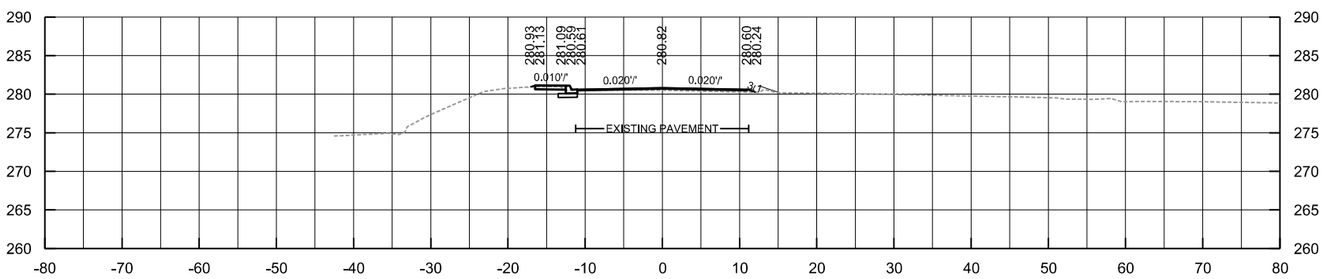
DATE REVISED	05-09-2025	DATE PLANED	
DATE REVISED		DATE PLANED	
FED.RD. DIST.NO.	6	STATE	ARK.
JOB NO.	C32005	FED.AID PROJ.NO.	
SHEET NO.	87	TOTAL SHEETS	104



AREA CUT 5.41
AREA FILL 0.53

112+95.00

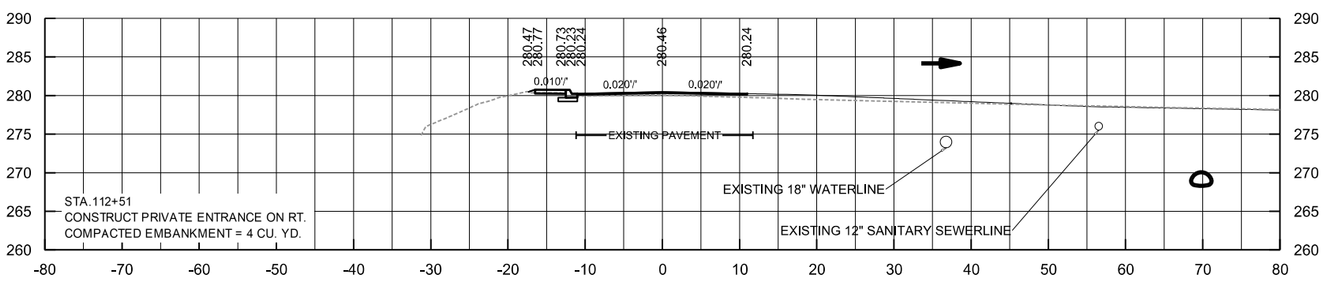
CUT VOLUME 3
FILL VOLUME 0



AREA CUT 3.38
AREA FILL 0.25

112+77.92

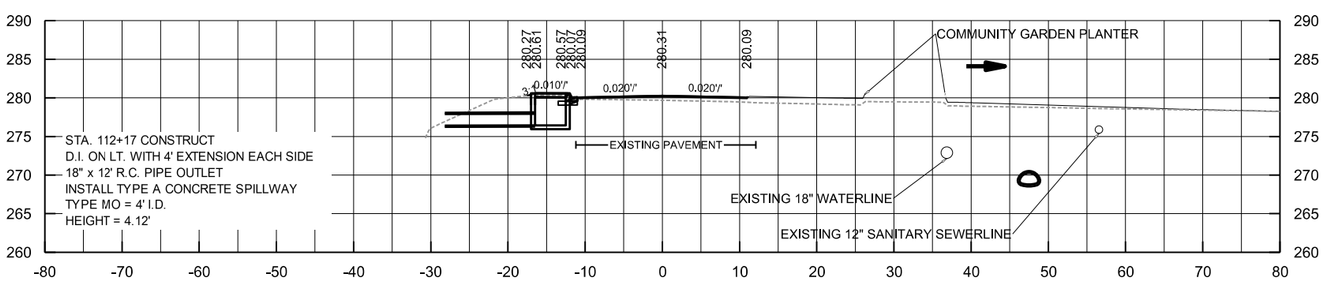
CUT VOLUME 3
FILL VOLUME 0



AREA CUT 1.78
AREA FILL 0.31

112+50.00

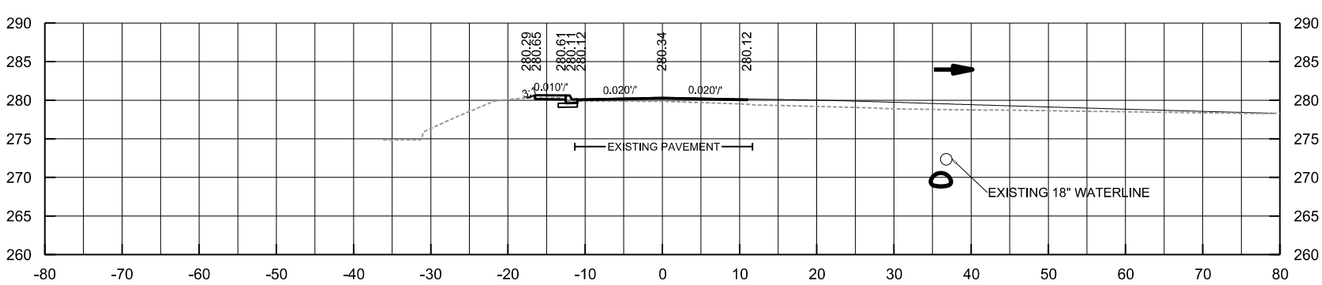
CUT VOLUME 3
FILL VOLUME 0



AREA CUT 2.32
AREA FILL 0.20

112+16.70

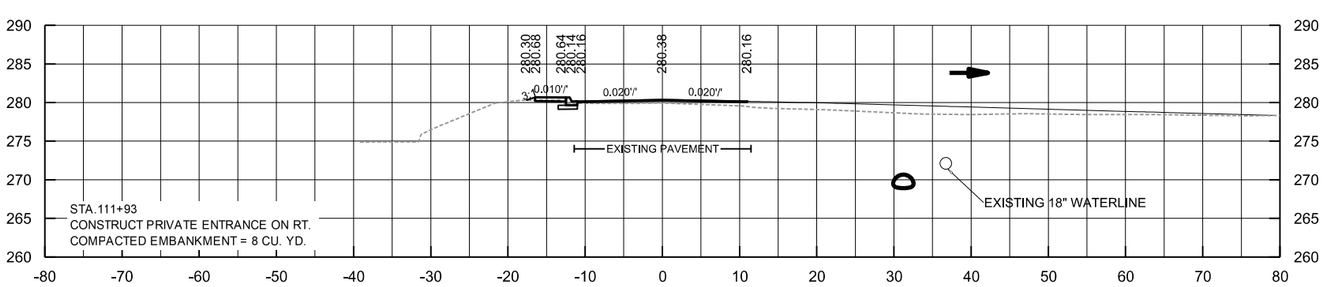
CUT VOLUME 1
FILL VOLUME 0



AREA CUT 2.26
AREA FILL 0.25

112+00.00

CUT VOLUME 1
FILL VOLUME 0



AREA CUT 2.12
AREA FILL 0.31

111+93.00

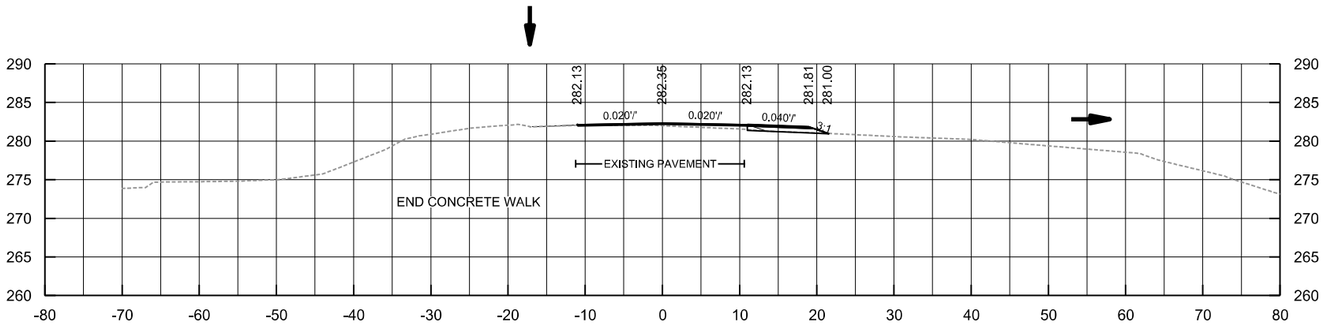
CUT VOLUME 2
FILL VOLUME 0

DATE REVISED	DATE PLANED	DATE REVISED	DATE PLANED
05-09-2025			

4 CROSS SECTIONS STA. 111+93.00 TO 112+95.00

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.	C32005	88	104

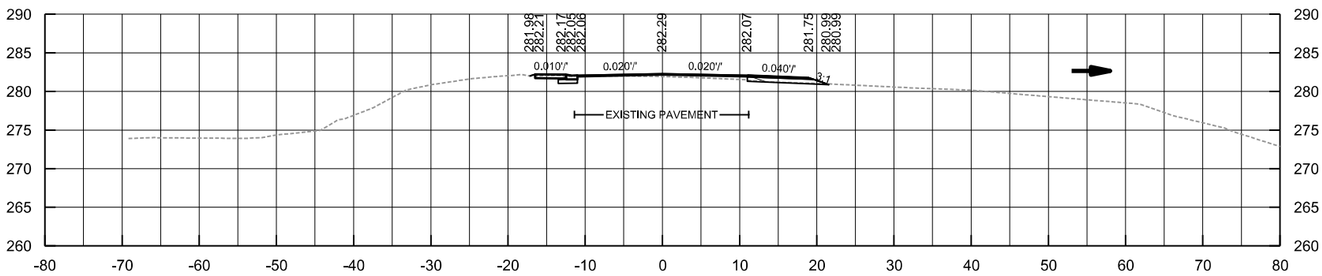
JOB NO.



AREA CUT 0.53
AREA FILL 0.00

113+39.00

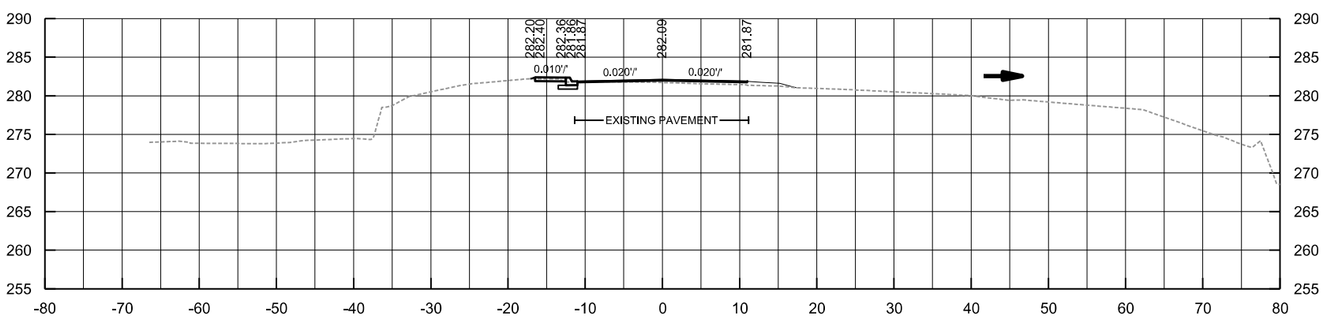
CUT VOLUME 0
FILL VOLUME 0



AREA CUT 4.14
AREA FILL 0.07

113+37.00

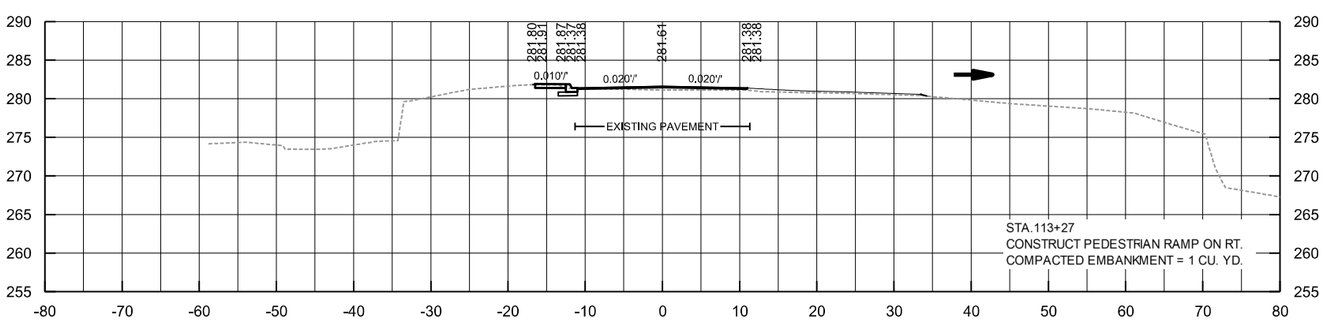
CUT VOLUME 1
FILL VOLUME 0



AREA CUT 3.28
AREA FILL 0.09

113+31.00

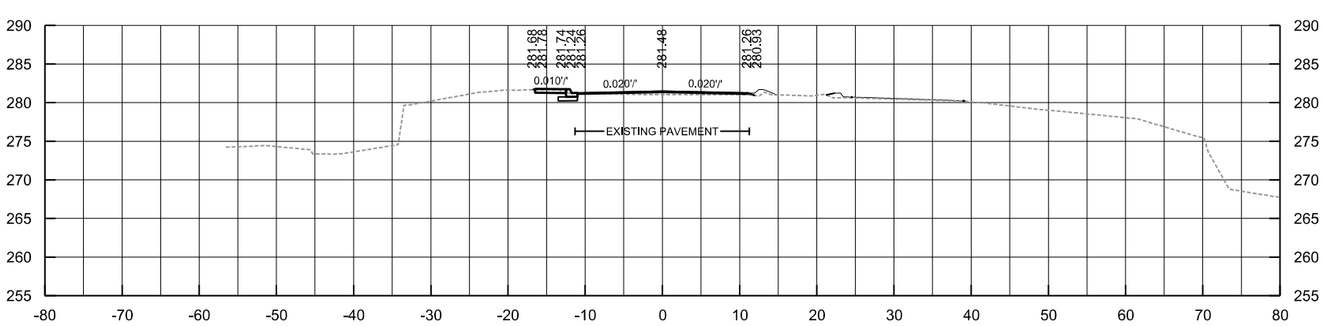
CUT VOLUME 2
FILL VOLUME 0



AREA CUT 3.53
AREA FILL 0.04

113+14.00

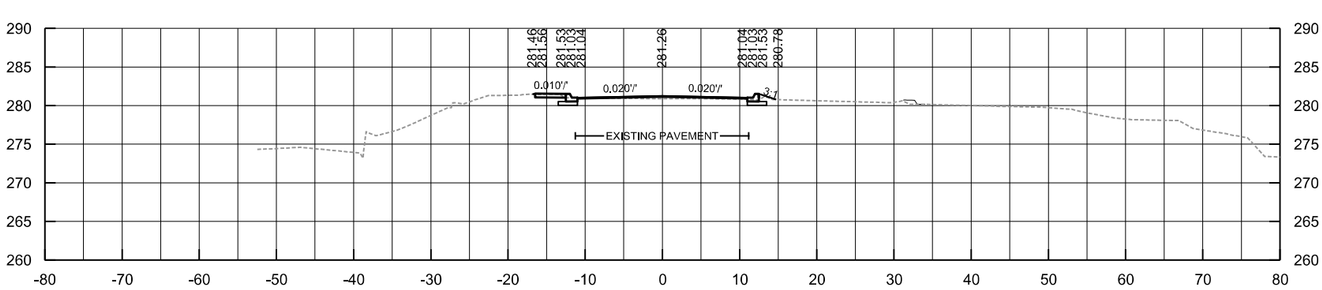
CUT VOLUME 1
FILL VOLUME 0



AREA CUT 3.63
AREA FILL 0.13

113+09.02

CUT VOLUME 2
FILL VOLUME 0



AREA CUT 5.36
AREA FILL 0.52

113+00.00

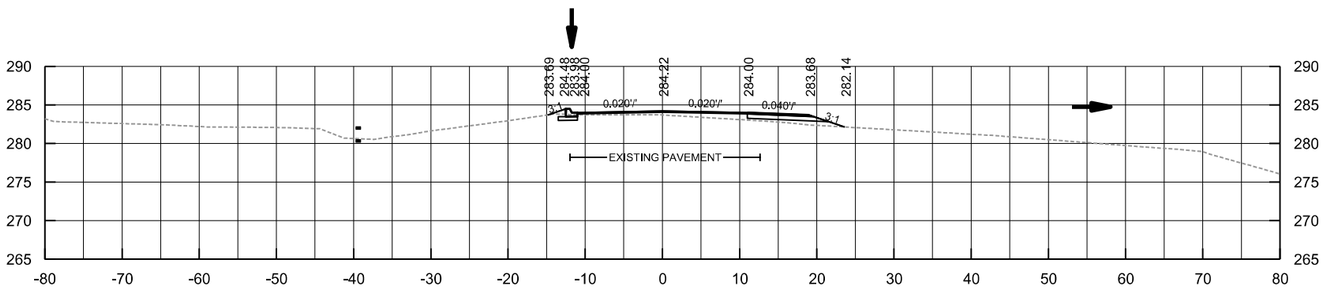
CUT VOLUME 1
FILL VOLUME 0

4 CROSS SECTIONS STA. 113+00.00 TO 113+39.00

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.	C32005	89	104

JOB NO.

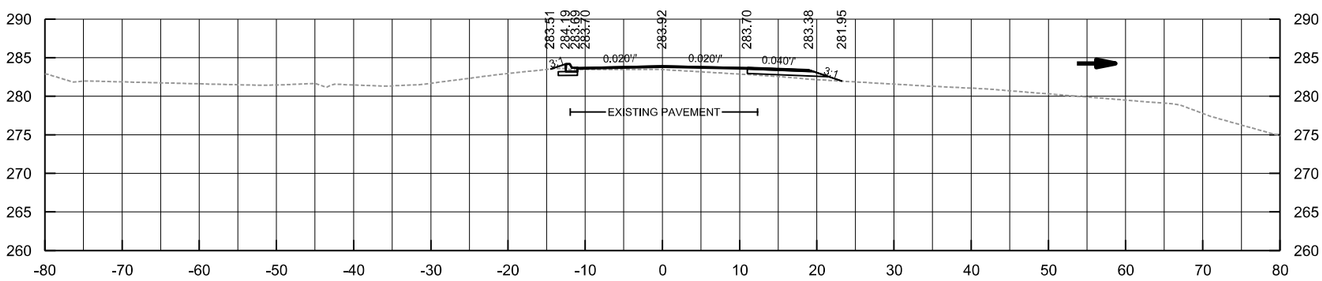
DATE PLANED | DATE REVISED | DATE PLANED | DATE REVISED



AREA CUT 1.61
AREA FILL 2.38

113+86.10

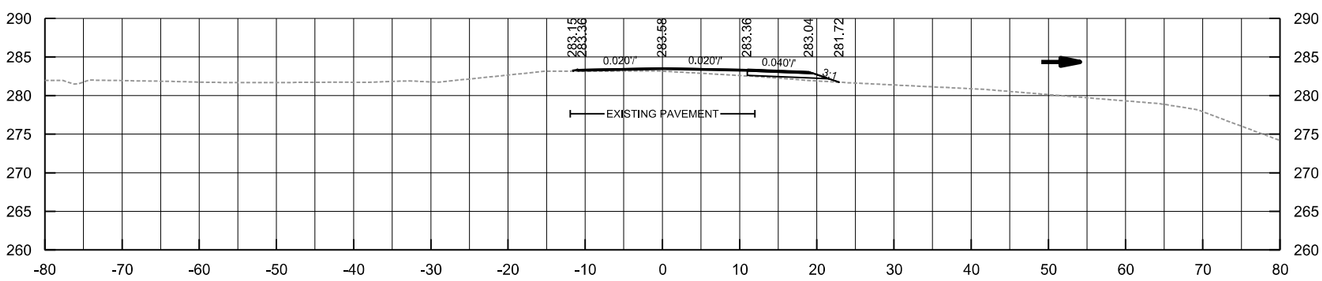
CUT VOLUME 0
FILL VOLUME 1



AREA CUT 1.67
AREA FILL 1.89

113+79.58

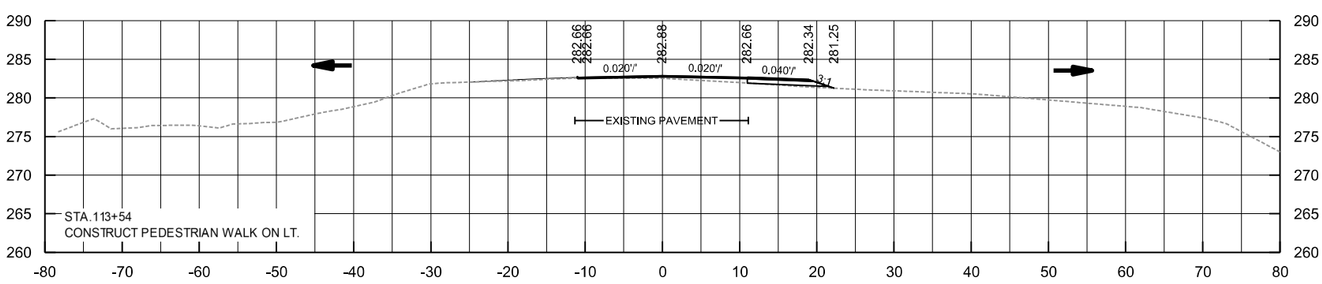
CUT VOLUME 0
FILL VOLUME 0



AREA CUT 0.00
AREA FILL 1.05

113+71.58

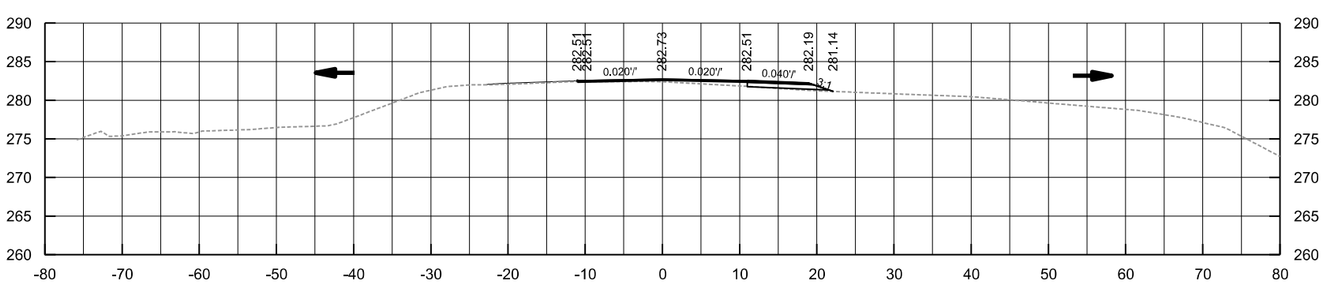
CUT VOLUME 0
FILL VOLUME 0



AREA CUT 0.13
AREA FILL 0.45

113+54.00

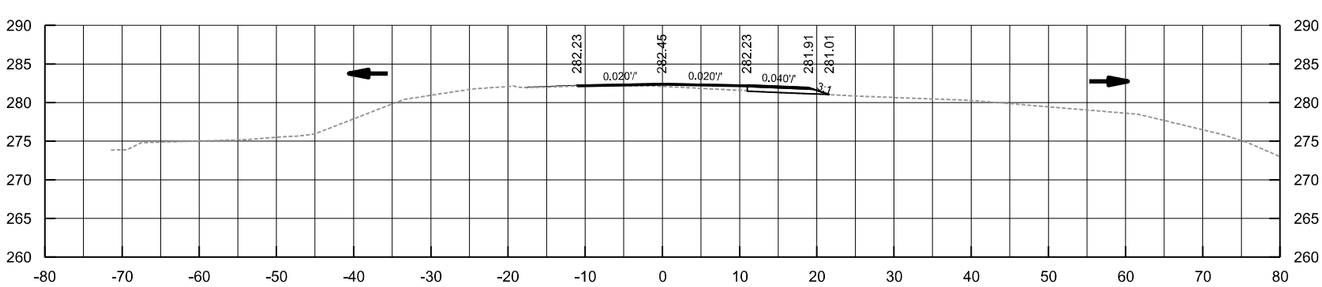
CUT VOLUME 0
FILL VOLUME 0



AREA CUT 0.19
AREA FILL 0.39

113+50.00

CUT VOLUME 0
FILL VOLUME 0



AREA CUT 0.26
AREA FILL 0.06

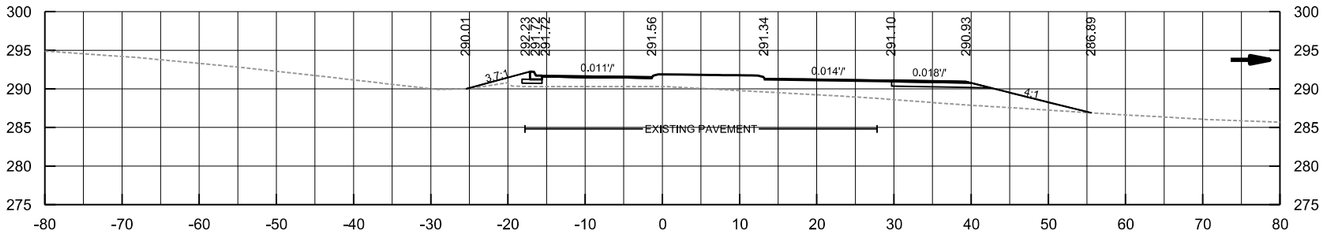
113+42.00

CUT VOLUME 0
FILL VOLUME 0

4 CROSS SECTIONS STA. 113+42.00 TO 113+86.10

FED.RD. DIST.NO.	6	STATE	ARK.
FED.AID PROJ.NO.	C32005	JOB NO.	
SHEET NO.	90	TOTAL SHEETS	104

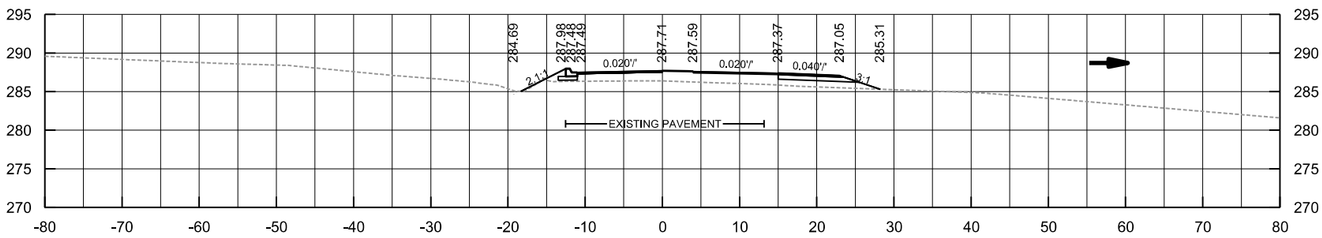
DATE PLANED | DATE REVISED | DATE PLANED | DATE REVISED



AREA CUT 0.00
AREA FILL 48.36

115+00.00

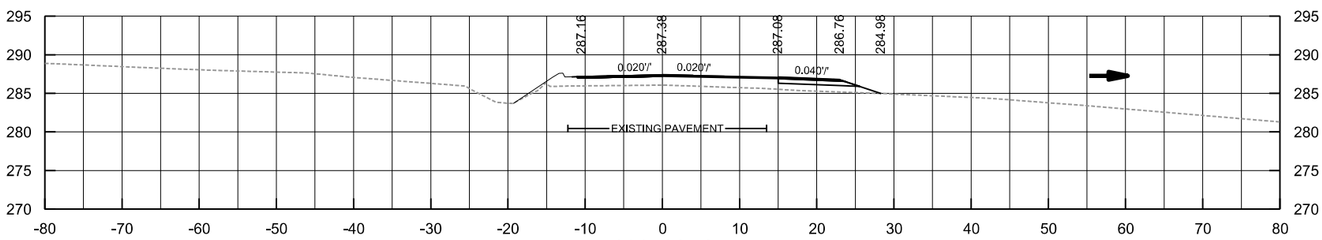
CUT VOLUME 0
FILL VOLUME 56



AREA CUT 0.00
AREA FILL 12.11

114+50.00

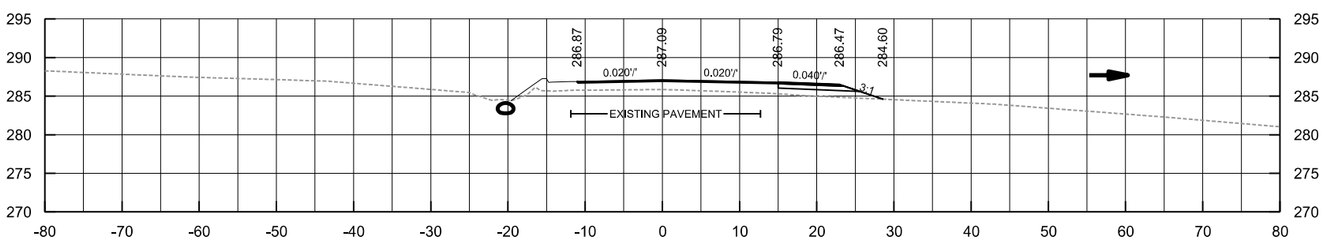
CUT VOLUME 0
FILL VOLUME 3



AREA CUT 0.00
AREA FILL 22.79

114+44.72
BEGIN TRANSITION TO ROUNDABOUT

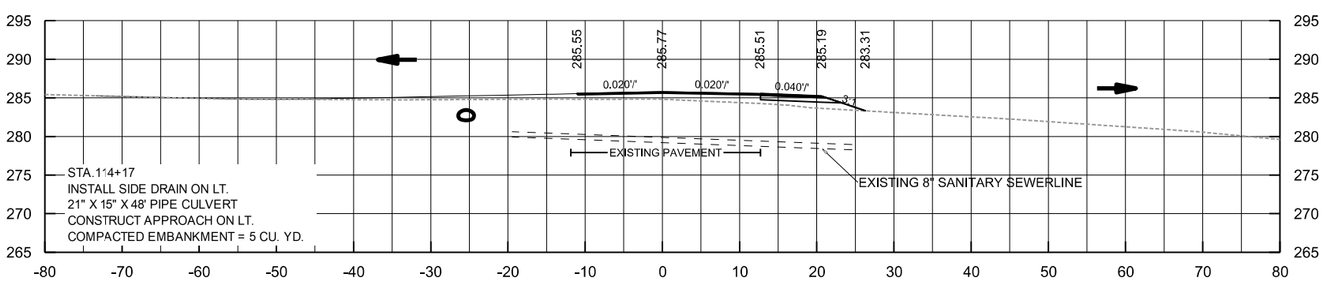
CUT VOLUME 0
FILL VOLUME 3



AREA CUT 0.00
AREA FILL 10.16

114+40.00
END 4' LANE TAPER ON RT.

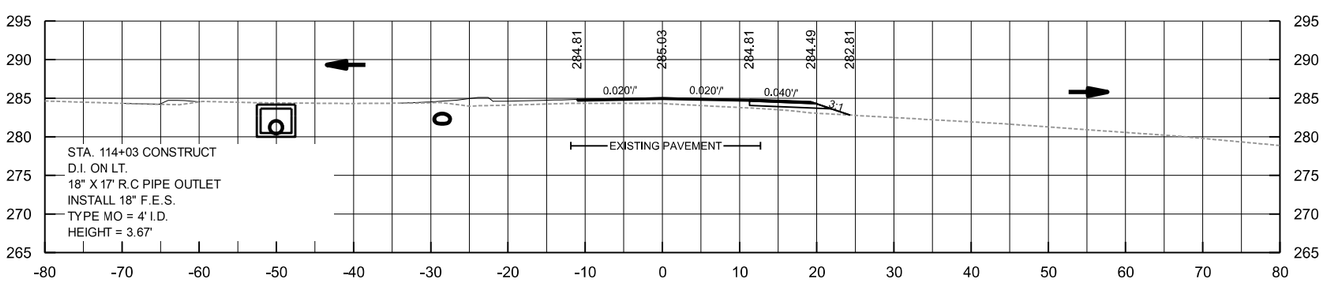
CUT VOLUME 0
FILL VOLUME 8



AREA CUT 0.00
AREA FILL 8.51

114+17.00

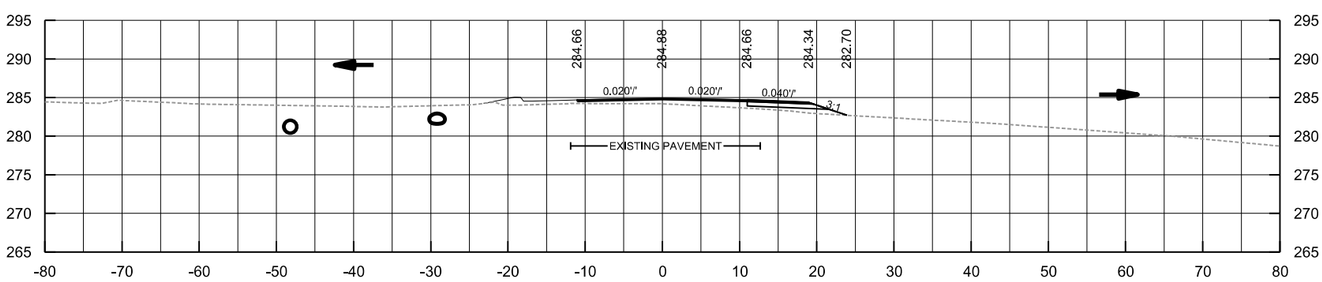
CUT VOLUME 0
FILL VOLUME 4



AREA CUT 0.00
AREA FILL 6.03

114+03.00

CUT VOLUME 0
FILL VOLUME 1



AREA CUT 0.00
AREA FILL 5.59

114+00.00
BEGIN 4' LANE TAPER ON RT.

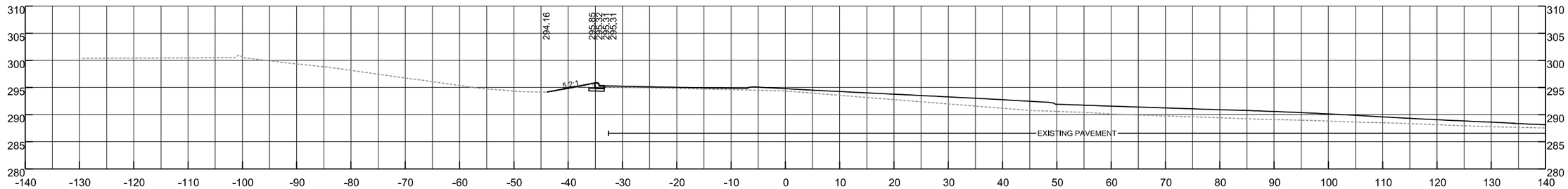
CUT VOLUME 0
FILL VOLUME 2

DATE REVISED 05-09-2025	DATE PLANED	DATE REVISED	DATE PLANED	FED.RD. DIST.NO. 6	STATE ARK.
FED.AID PROJ.NO. C32005	SHEET NO. 91	TOTAL SHEETS 104		JOB NO.	

4 CROSS SECTIONS STA. 114+00.00 TO 115+00.00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
05-09-2025				6	ARK.			
				JOB NO.		C32005	92	104

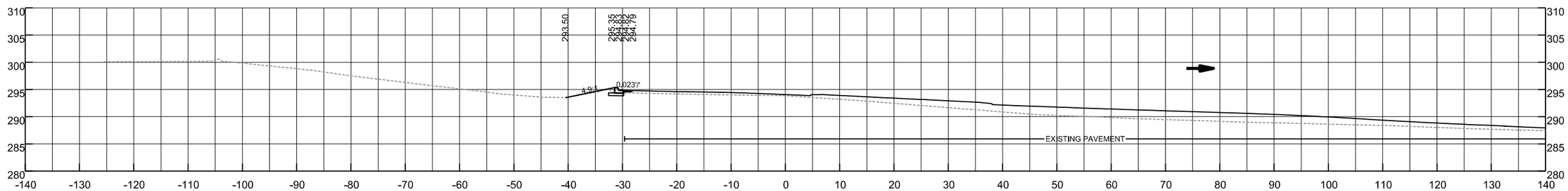
4 CROSS SECTIONS STA. 115+23.96 TO 115+46.88



AREA CUT 1.94
AREA FILL 0.79

115+46.88

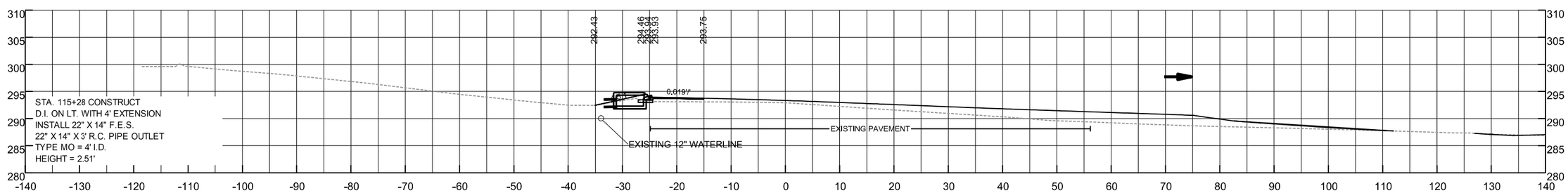
CUT VOLUME 0
FILL VOLUME 0



AREA CUT 1.52
AREA FILL 1.72

115+40.00

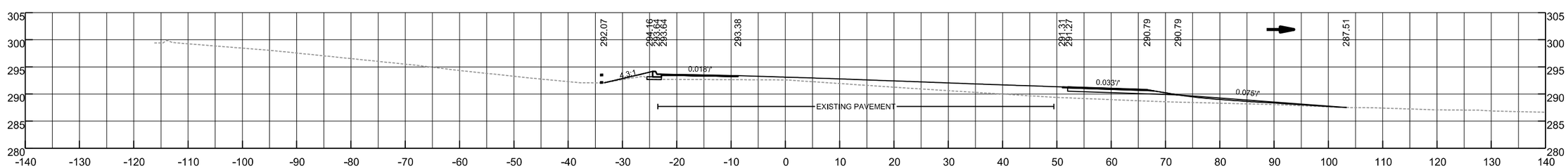
CUT VOLUME 0
FILL VOLUME 1



AREA CUT 0.59
AREA FILL 2.49

115+28.00

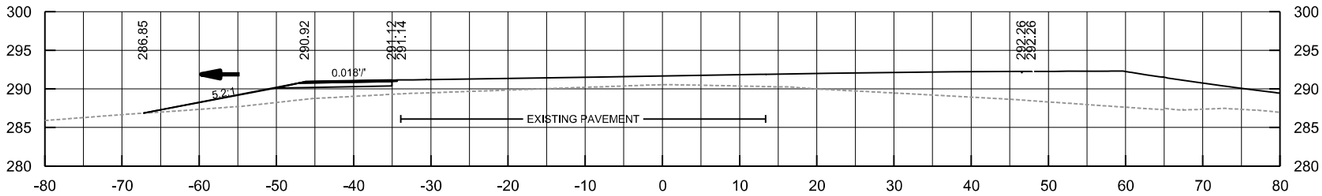
CUT VOLUME 0
FILL VOLUME 4



AREA CUT 0.16
AREA FILL 52.87

115+23.96

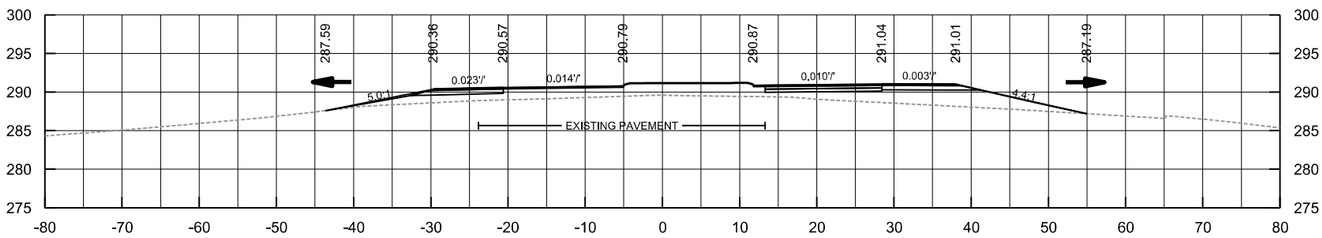
CUT VOLUME 0
FILL VOLUME 45



AREA CUT 0.00
AREA FILL 43.20

201+36.08

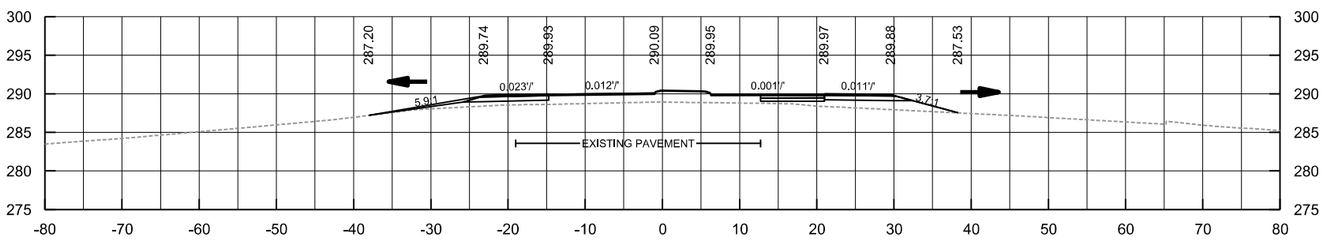
CUT VOLUME 0
FILL VOLUME 46



AREA CUT 0.00
AREA FILL 73.42

201+15.00

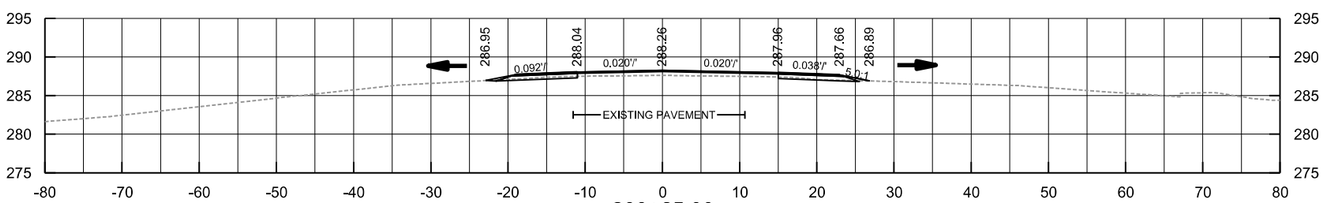
CUT VOLUME 0
FILL VOLUME 28



AREA CUT 0.00
AREA FILL 28.25

201+00.00

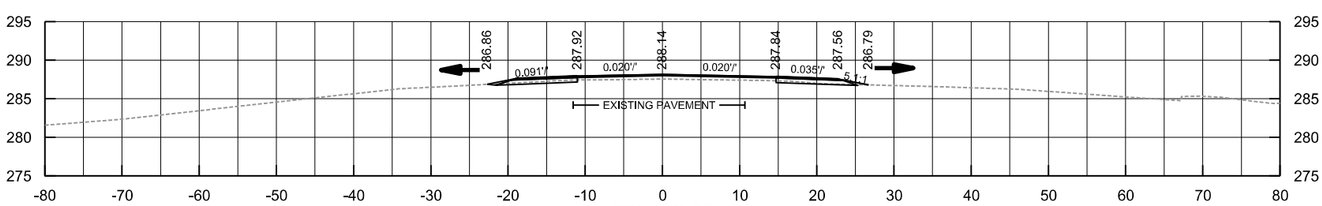
CUT VOLUME 2
FILL VOLUME 19



AREA CUT 3.40
AREA FILL 0.57

200+65.00
END 4' LANE TAPER ON RT.

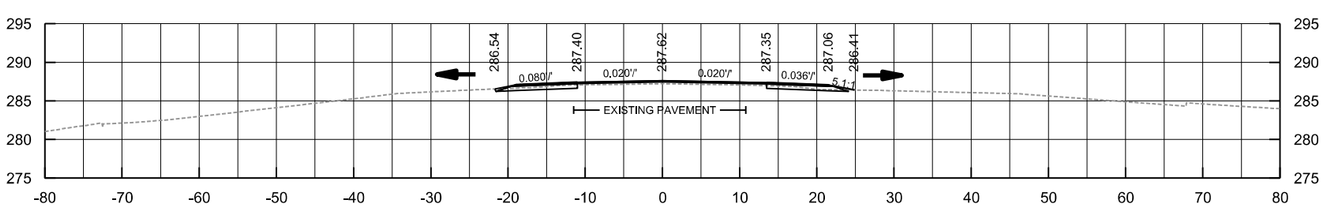
CUT VOLUME 0
FILL VOLUME 0



AREA CUT 4.01
AREA FILL 0.58

200+62.23
BEGIN TRANSITION TO ROUNDABOUT

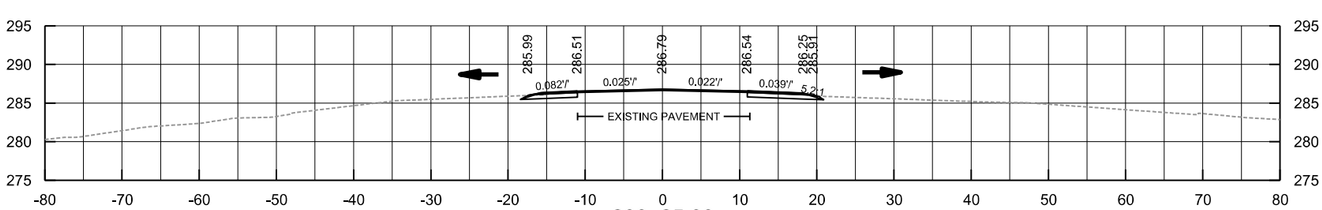
CUT VOLUME 2
FILL VOLUME 0



AREA CUT 6.53
AREA FILL 0.42

200+50.00

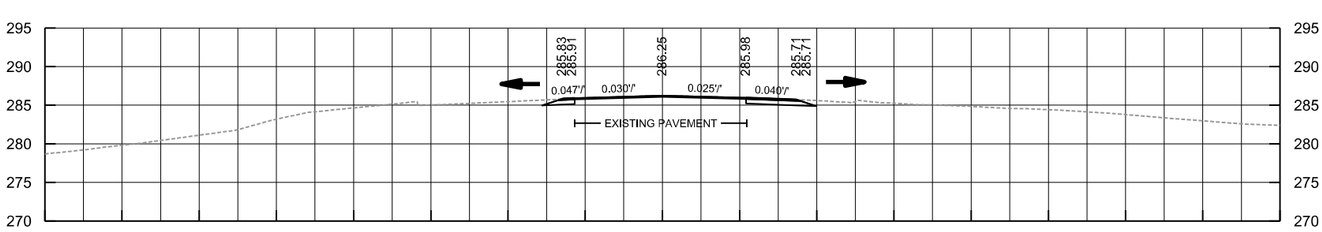
CUT VOLUME 9
FILL VOLUME 0



AREA CUT 11.98
AREA FILL 0.00

200+25.00
BEGIN 4' LANE TAPER ON RT.

CUT VOLUME 12
FILL VOLUME 0



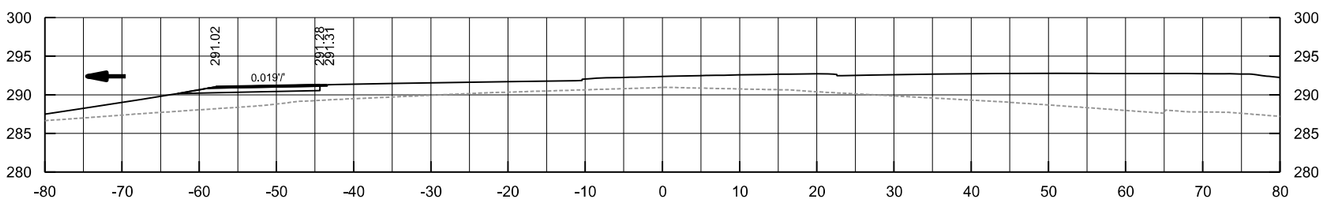
AREA CUT 13.55
AREA FILL 0.00

200+00.00
BEGIN PIONNER

CUT VOLUME 0
FILL VOLUME 0

DATE REVISED	DATE PLANED	DATE REVISED	DATE PLANED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	C32005	93	104

4 CROSS SECTIONS STA. 200+00.00 TO 201+36.08



AREA CUT 0.00
AREA FILL 59.97

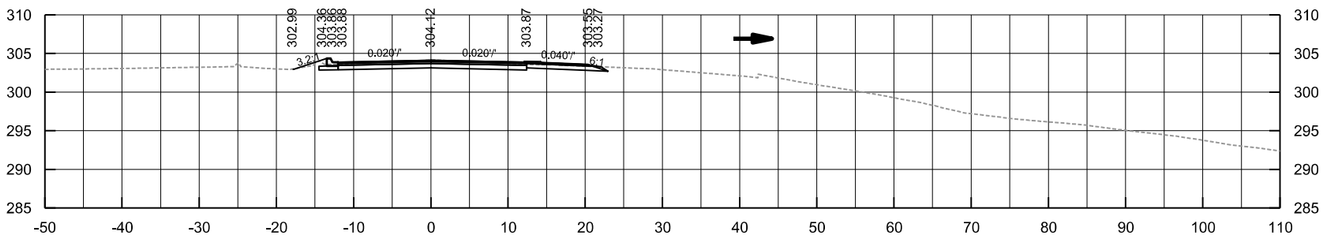
201+45.00
END TRANSITION TO ROUNDABOUT
END PIONEER

CUT VOLUME 0
FILL VOLUME 17

4 CROSS SECTIONS STA. 201+45.00 TO 201+45.00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	C32005	94	104

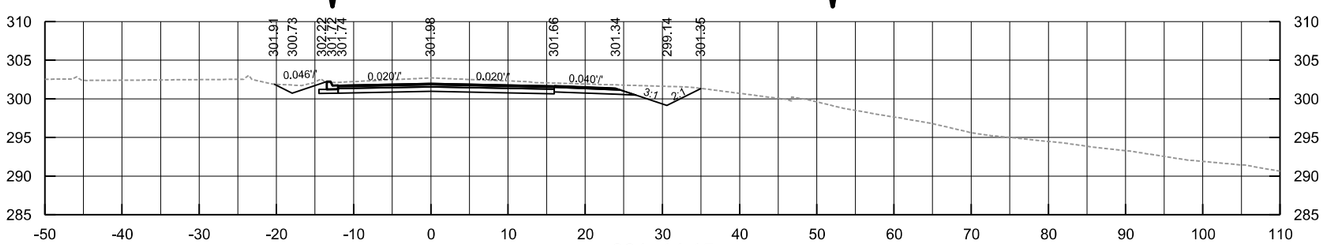
JOB NO.



AREA CUT 28.94
AREA FILL 0.87

301+50.00
END FULL DEPTH SECTION

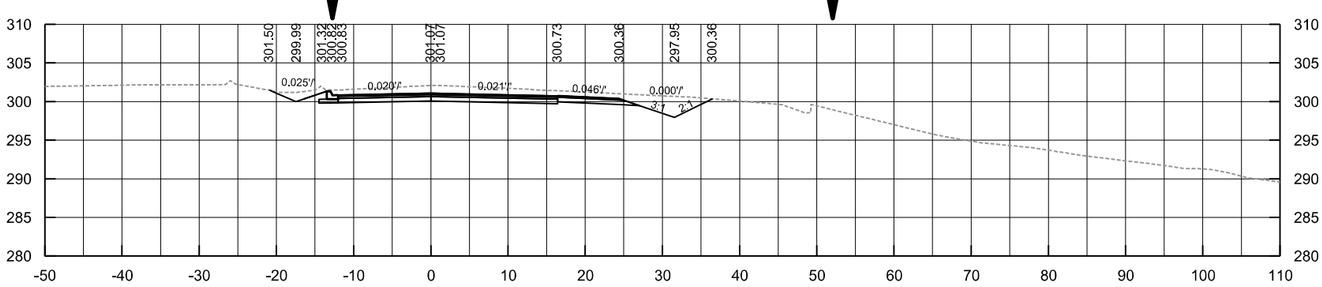
CUT VOLUME 70
FILL VOLUME 1



AREA CUT 75.93
AREA FILL 0.01

301+14.15
BEGIN 4' LANE TAPER ON RT.

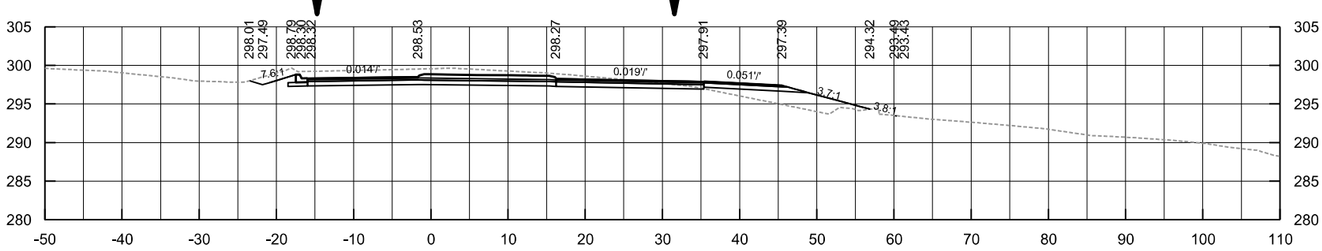
CUT VOLUME 44
FILL VOLUME 0



AREA CUT 92.15
AREA FILL 0.00

301+00.00

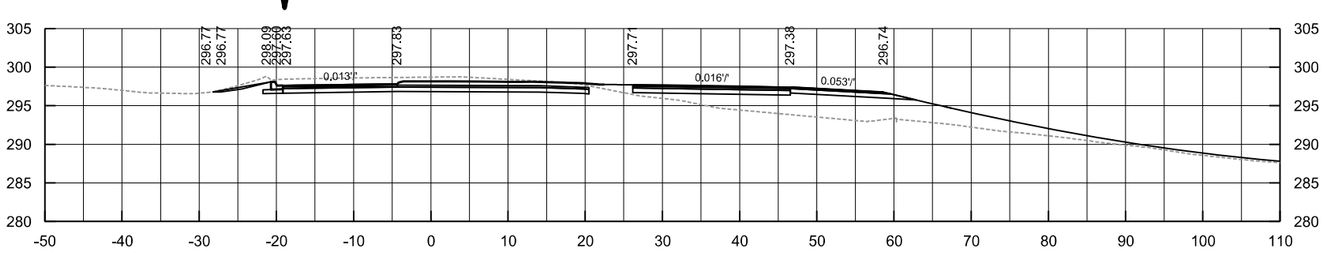
CUT VOLUME 168
FILL VOLUME 24



AREA CUT 89.25
AREA FILL 26.11

300+50.00

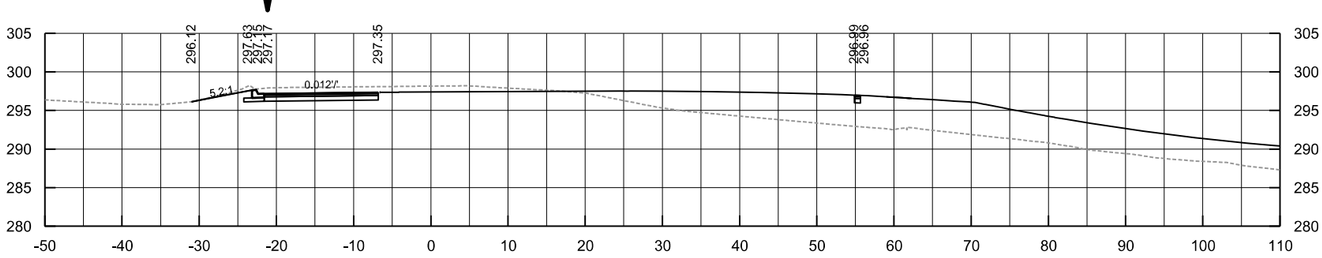
CUT VOLUME 39
FILL VOLUME 27



AREA CUT 75.16
AREA FILL 89.68

300+37.18

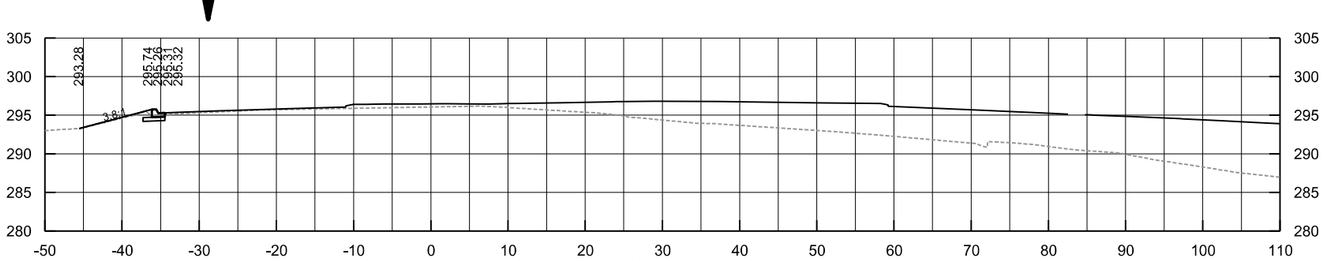
CUT VOLUME 15
FILL VOLUME 17



AREA CUT 30.69
AREA FILL 29.36

300+29.40

CUT VOLUME 18
FILL VOLUME 17



AREA CUT 1.89
AREA FILL 0.99

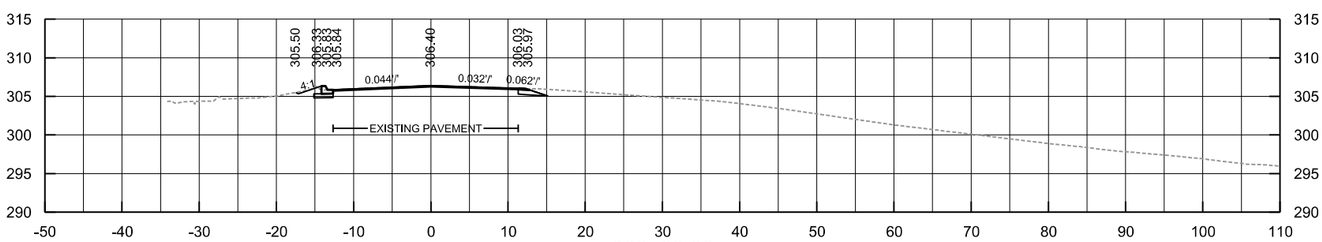
300+00.00
BEGIN 20TH

CUT VOLUME 0
FILL VOLUME 0

DATE REVISED	DATE PLANED	DATE REVISED	DATE PLANED
FED.RD. DIST.NO. 6	STATE ARK.	FED.AID PROJ.NO. C32005	SHEET NO. 95 / TOTAL SHEETS 104

JOB NO.

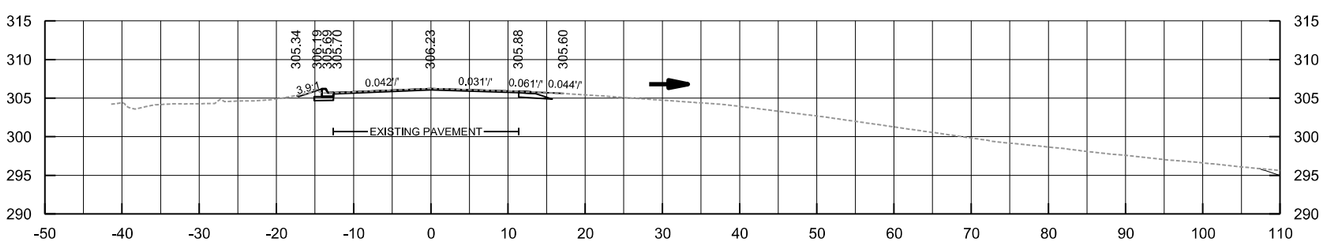
4 CROSS SECTIONS STA. 300+00.00 TO 301+50.00



AREA CUT 9.42
AREA FILL 0.14

302+03.93
END 20TH

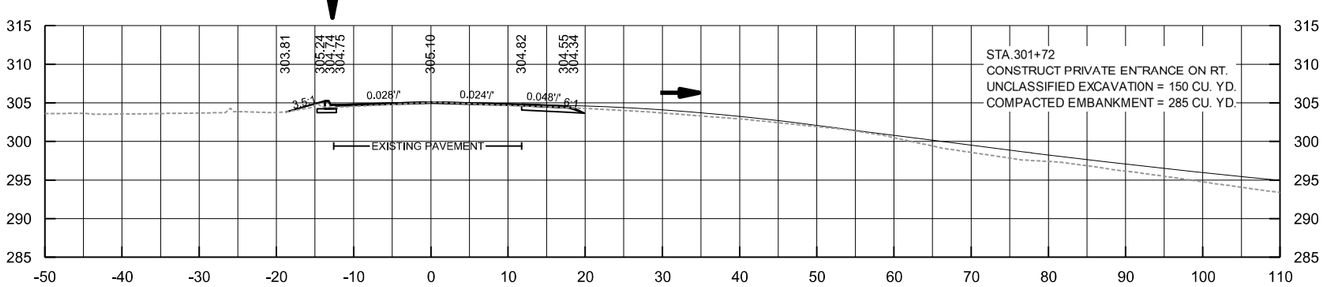
CUT VOLUME 1
FILL VOLUME 0



AREA CUT 8.26
AREA FILL 0.17

302+00.00

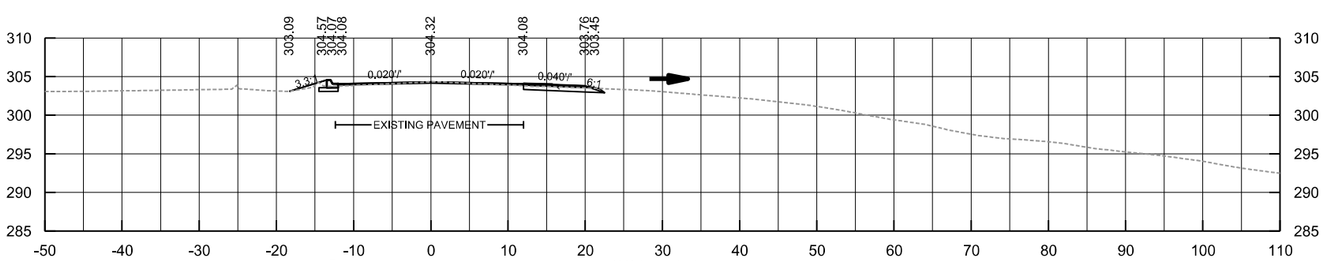
CUT VOLUME 8
FILL VOLUME 1



AREA CUT 7.15
AREA FILL 1.28

301+71.93

CUT VOLUME 5
FILL VOLUME 1



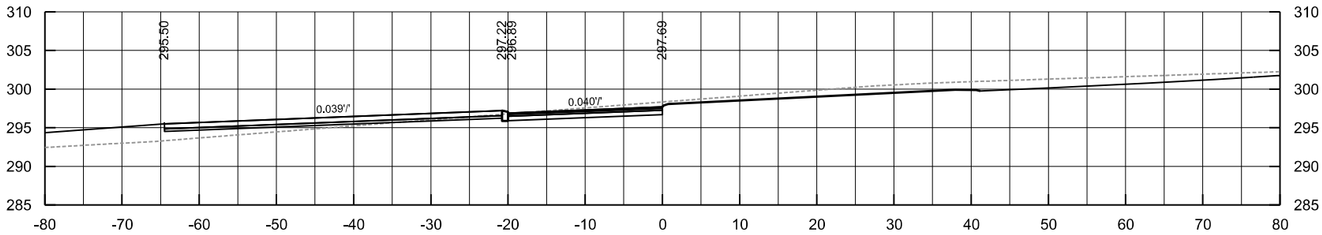
AREA CUT 8.04
AREA FILL 1.38

301+54.15
END 4' LANE TAPER ON RT.

CUT VOLUME 3
FILL VOLUME 0

DATE REVISED	DATE PLANED	DATE REVISED	DATE PLANED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	C32005	96	104

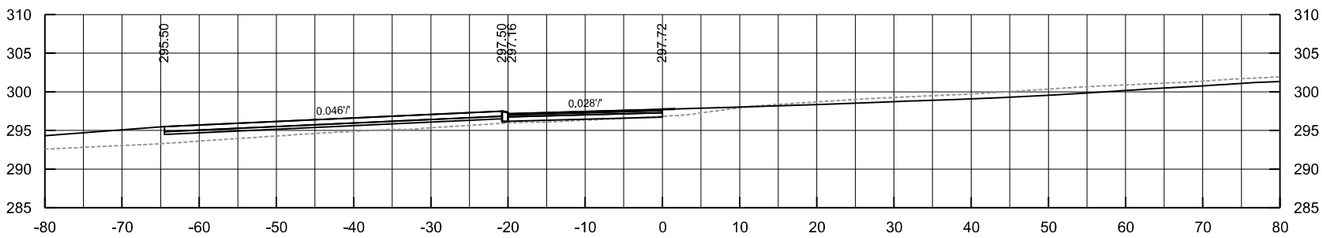
4 CROSS SECTIONS STA. 301+54.15 TO 302+03.93



AREA CUT 29.54
AREA FILL 0.00

401+00.00

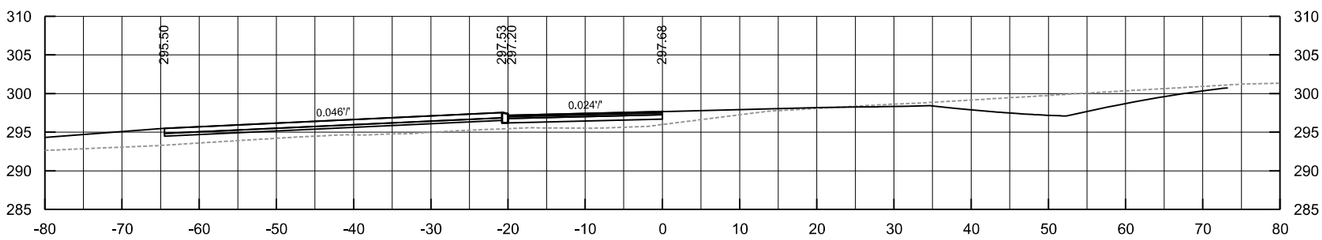
CUT VOLUME 8
FILL VOLUME 3



AREA CUT 0.23
AREA FILL 10.68

400+85.05

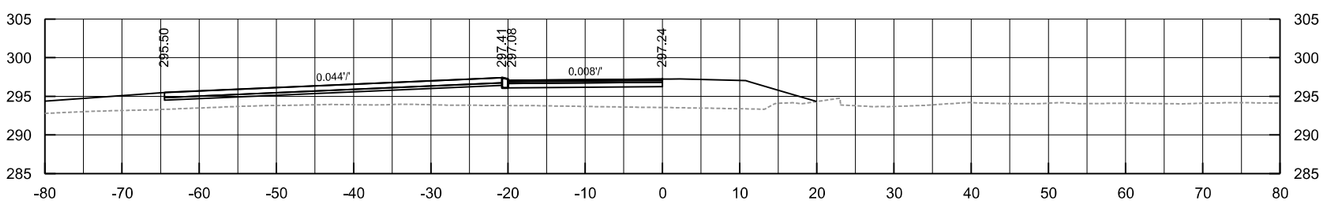
CUT VOLUME 0
FILL VOLUME 4



AREA CUT 0.00
AREA FILL 30.59

400+80.00

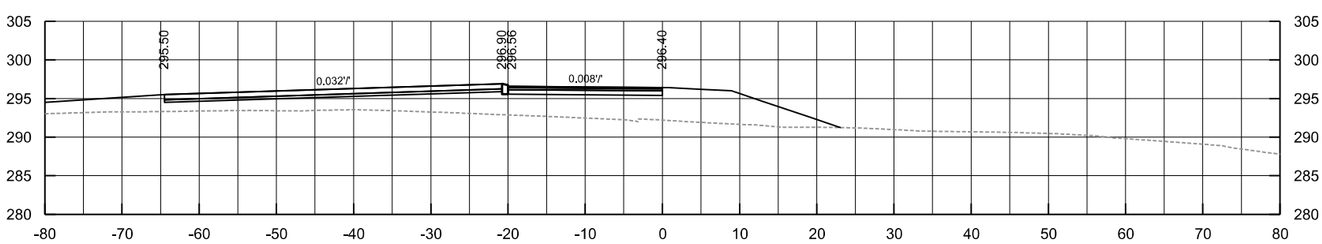
CUT VOLUME 0
FILL VOLUME 53



AREA CUT 0.00
AREA FILL 111.34

400+60.00

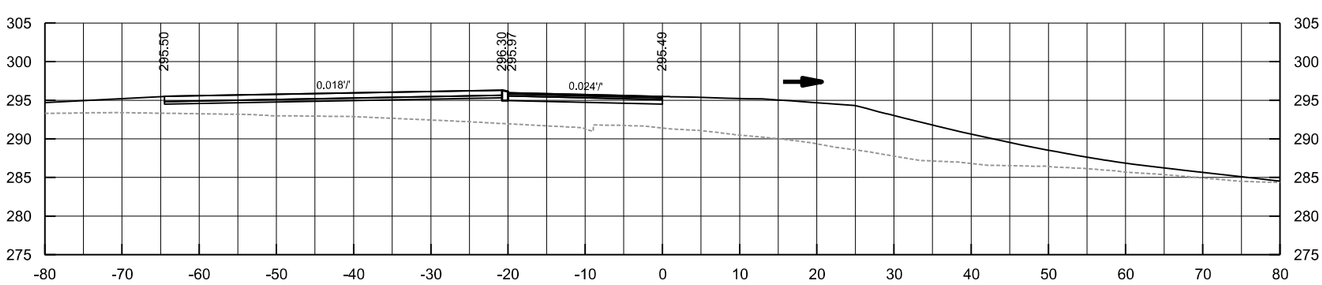
CUT VOLUME 0
FILL VOLUME 86



AREA CUT 0.00
AREA FILL 120.01

400+40.00

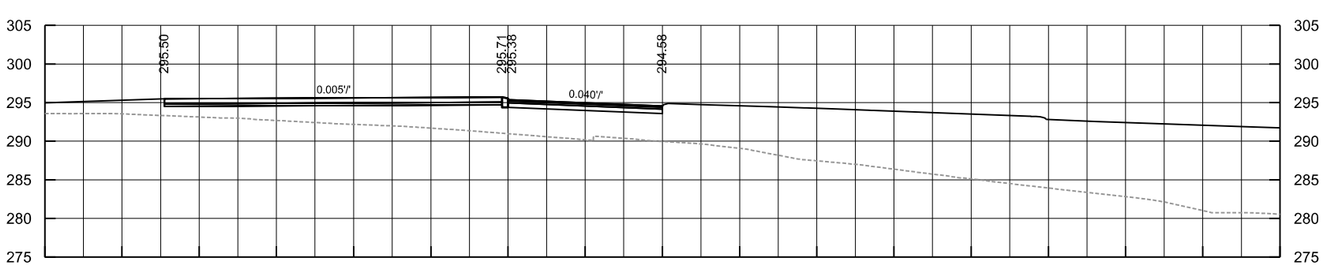
CUT VOLUME 0
FILL VOLUME 96



AREA CUT 0.00
AREA FILL 137.97

400+20.00

CUT VOLUME 0
FILL VOLUME 110



AREA CUT 0.00
AREA FILL 158.42

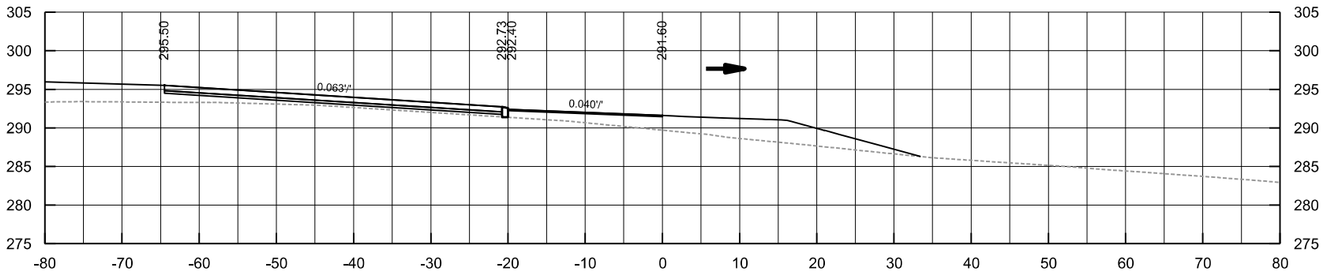
400+00.00
BEGIN ROUNDABOUT

CUT VOLUME 0
FILL VOLUME 0

4 CROSS SECTIONS STA. 400+00.00 TO 401+00.00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FEDERAL DIST. NO.	6
				STATE	ARK.
				FED.AID PROJ.NO.	C32005
				SHEET NO.	97
				TOTAL SHEETS	104

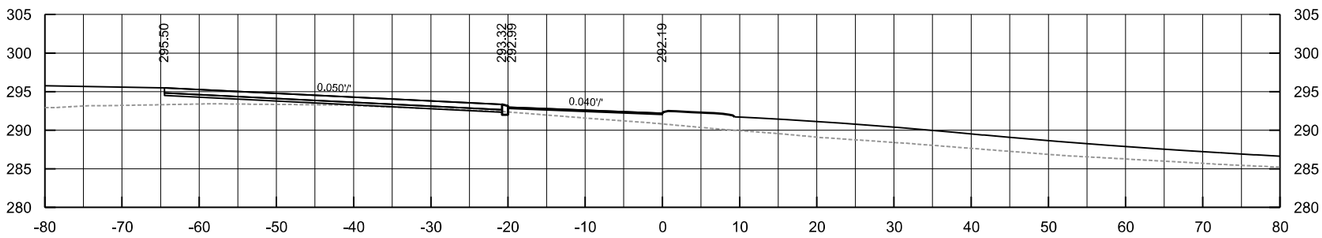
JOB NO.



AREA CUT 0.00
AREA FILL 0.00

402+40.00

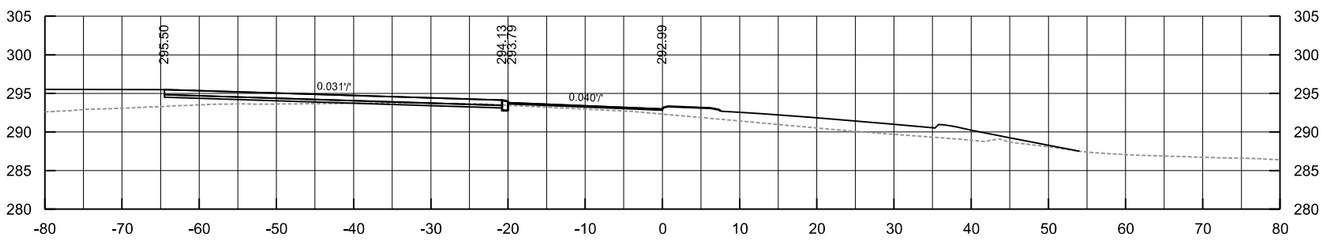
CUT VOLUME 0
FILL VOLUME 0



AREA CUT 0.87
AREA FILL 0.00

402+20.00

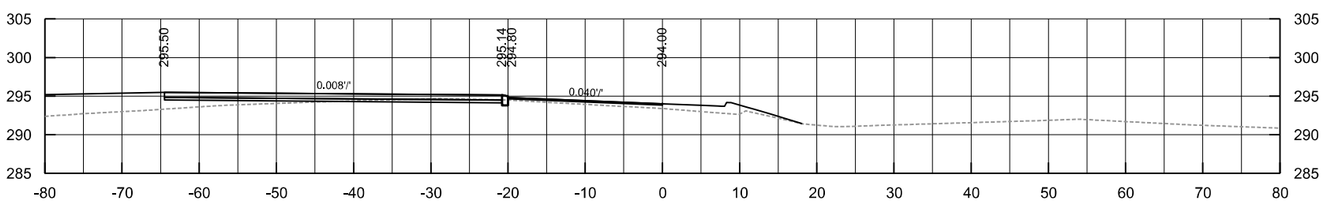
CUT VOLUME 2
FILL VOLUME 0



AREA CUT 5.76
AREA FILL 0.00

402+00.00

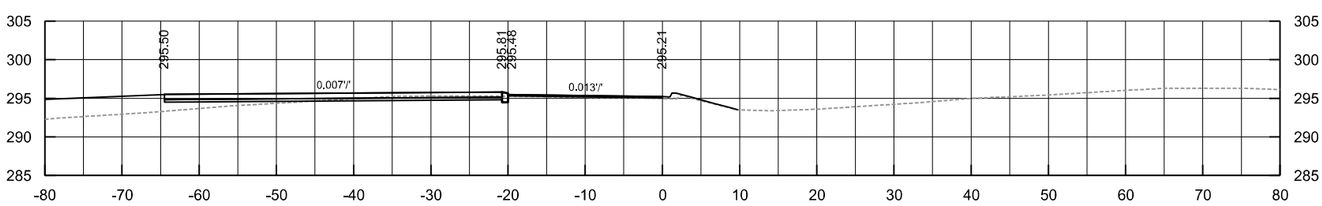
CUT VOLUME 5
FILL VOLUME 0



AREA CUT 7.37
AREA FILL 0.00

401+80.00

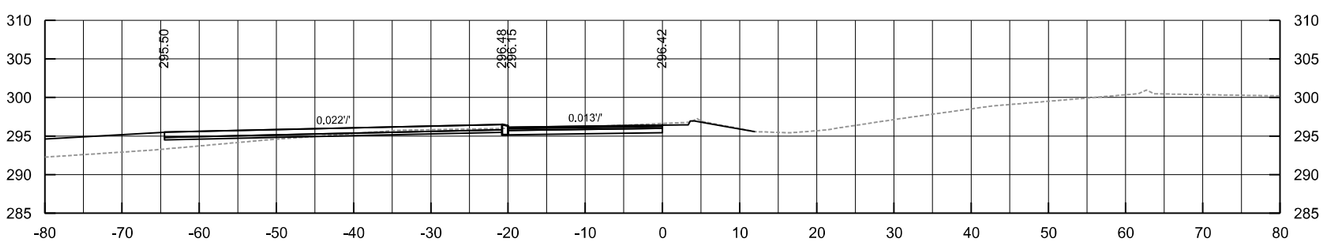
CUT VOLUME 7
FILL VOLUME 0



AREA CUT 10.78
AREA FILL 0.00

401+60.00

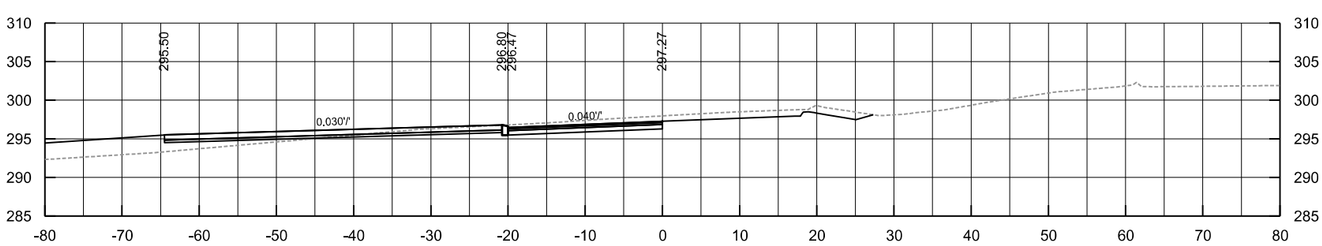
CUT VOLUME 15
FILL VOLUME 0



AREA CUT 30.26
AREA FILL 0.00

401+40.00

CUT VOLUME 28
FILL VOLUME 0



AREA CUT 44.94
AREA FILL 0.00

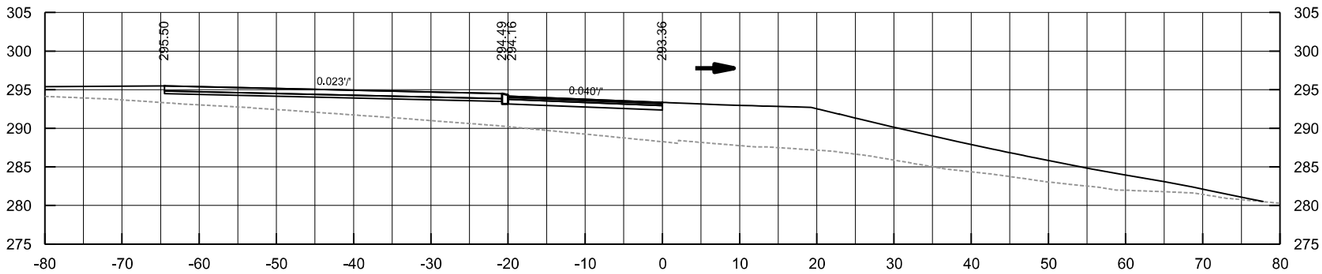
401+20.00

CUT VOLUME 28
FILL VOLUME 0

4 CROSS SECTIONS STA. 401+20.00 TO 402+40.00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FEDERAL DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	C32005	98	104

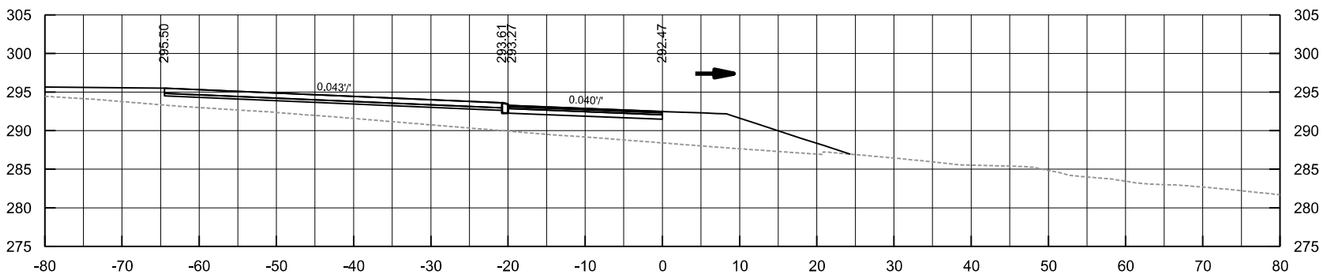
JOB NO.



AREA CUT 0.00
AREA FILL 154.36

403+80.00

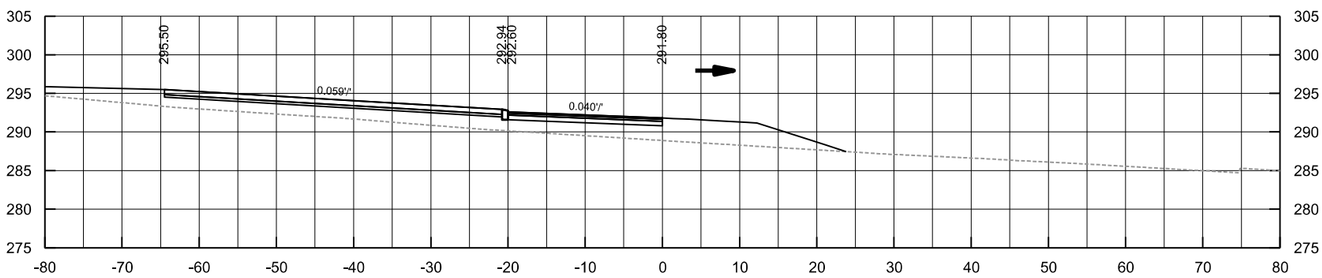
CUT VOLUME 0
FILL VOLUME 102



AREA CUT 0.00
AREA FILL 122.13

403+60.00

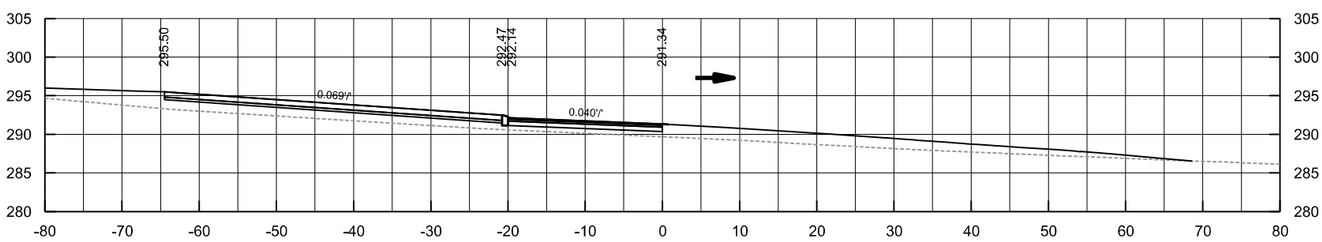
CUT VOLUME 0
FILL VOLUME 74



AREA CUT 0.00
AREA FILL 76.54

403+40.00

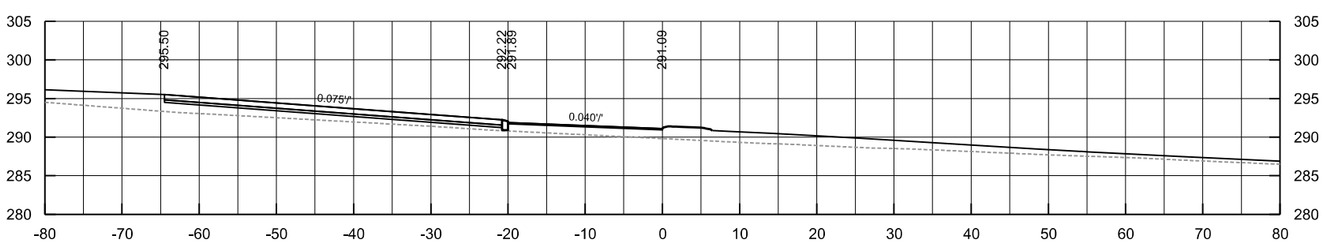
CUT VOLUME 0
FILL VOLUME 33



AREA CUT 0.00
AREA FILL 12.60

403+20.00

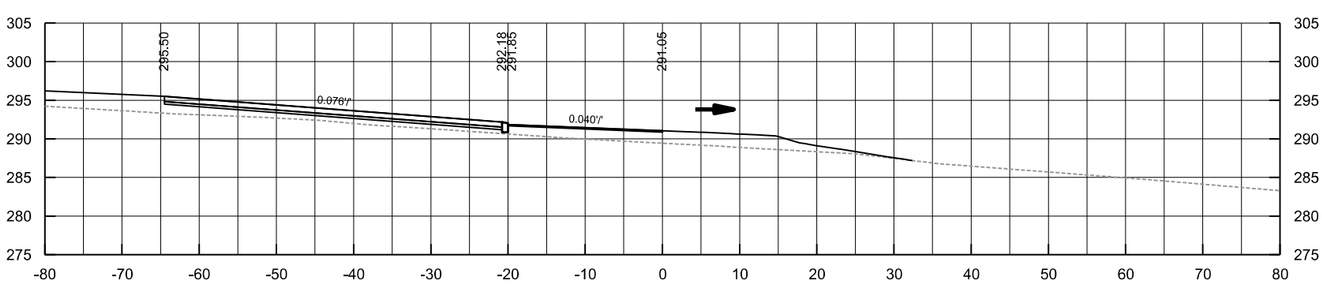
CUT VOLUME 0
FILL VOLUME 5



AREA CUT 0.00
AREA FILL 0.00

403+00.00

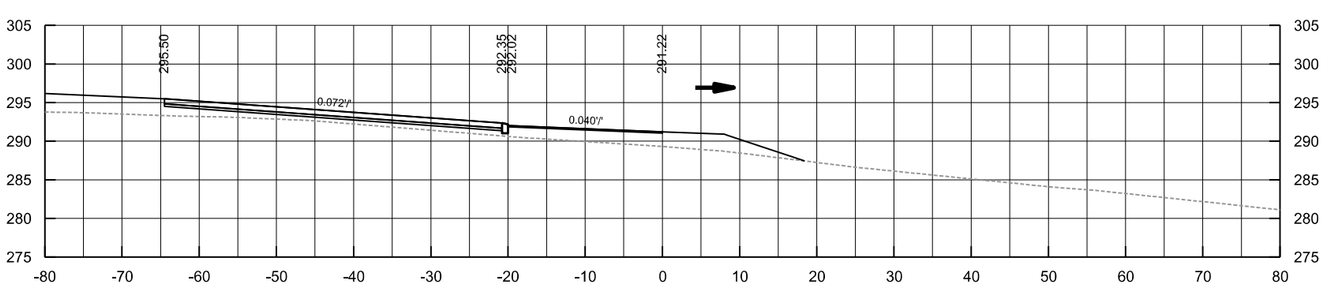
CUT VOLUME 0
FILL VOLUME 0



AREA CUT 0.00
AREA FILL 0.00

402+80.00

CUT VOLUME 0
FILL VOLUME 0



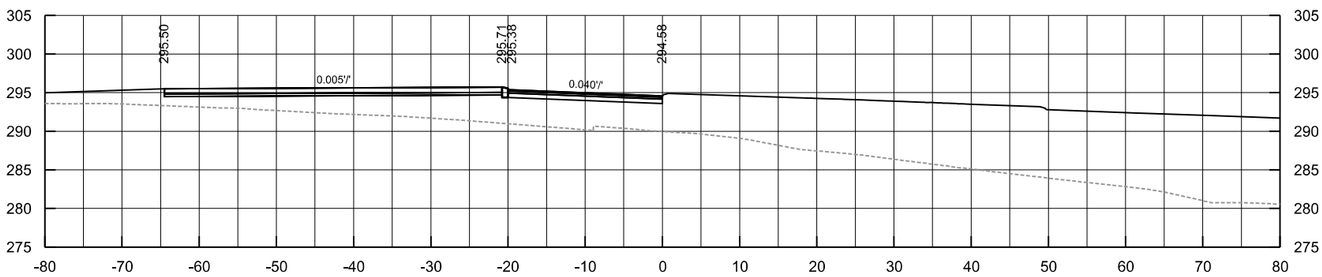
AREA CUT 0.00
AREA FILL 0.00

402+60.00

CUT VOLUME 0
FILL VOLUME 0

4 CROSS SECTIONS STA. 402+60.00 TO 403+80.00

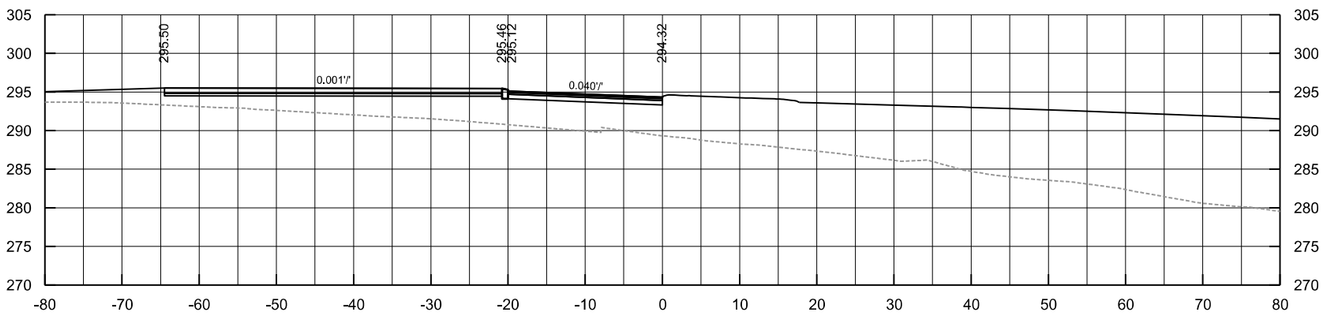
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FEDERAL DIST. NO.	6
				STATE	ARK.
				JOB NO.	C32005
				FED.AID PROJ.NO.	
				SHEET NO.	99
				TOTAL SHEETS	104



AREA CUT 0.00
AREA FILL 158.42

404+05.26
END ROUNDABOUT

CUT VOLUME 0
FILL VOLUME 31



AREA CUT 0.00
AREA FILL 159.80

404+00.00

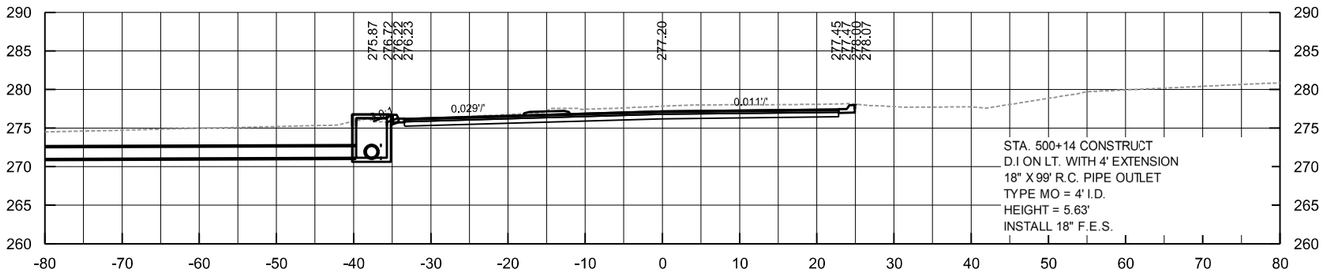
CUT VOLUME 0
FILL VOLUME 116

4 CROSS SECTIONS STA. 404+00.00 TO 404+05.26

DATE REVISED	DATE PLANED	DATE REVISED	DATE PLANED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.	C32005	100	104

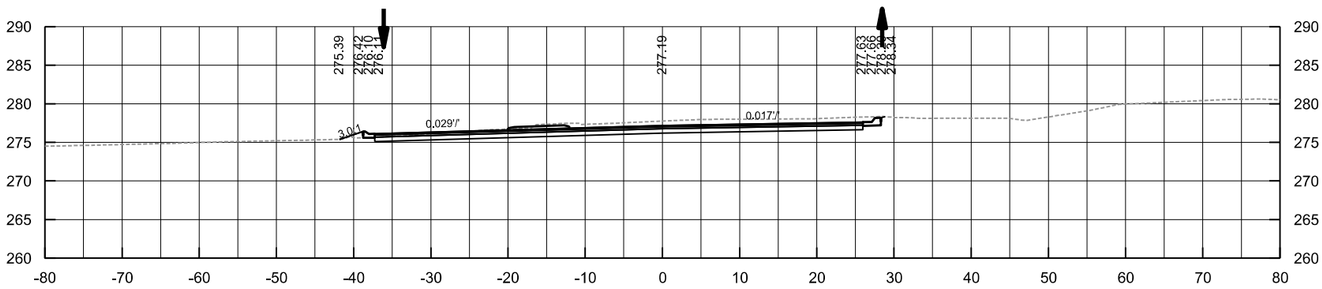
JOB NO.



AREA CUT 84.08
AREA FILL 1.25

500+14.00

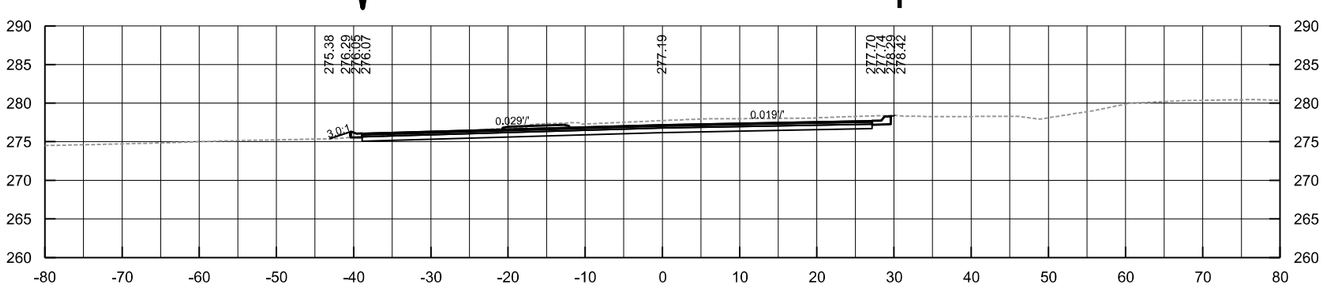
CUT VOLUME 10
FILL VOLUME 0



AREA CUT 88.59
AREA FILL 1.04

500+11.00

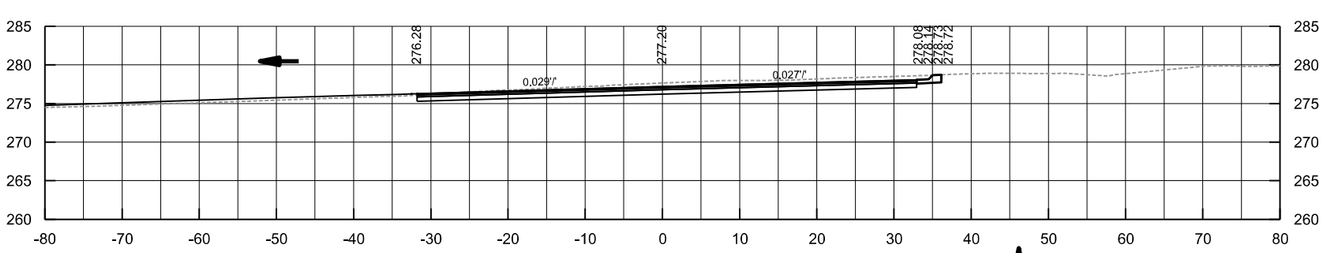
CUT VOLUME 3
FILL VOLUME 0



AREA CUT 90.72
AREA FILL 1.03

500+10.00

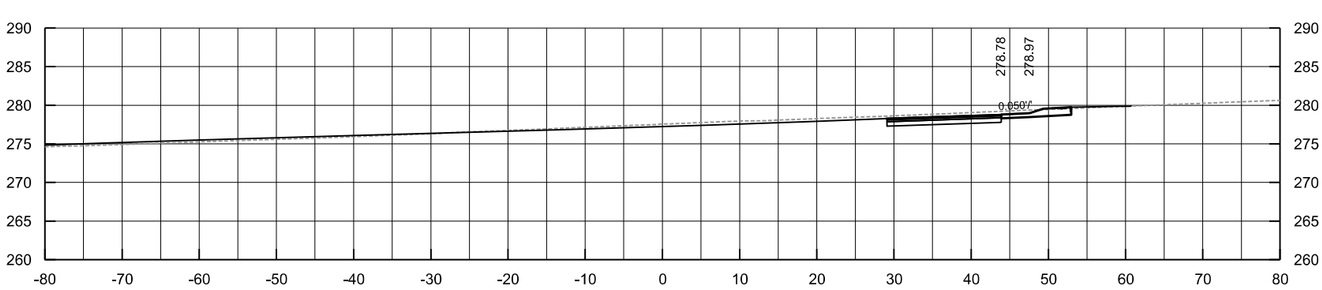
CUT VOLUME 13
FILL VOLUME 0



AREA CUT 89.24
AREA FILL 0.14

500+06.00

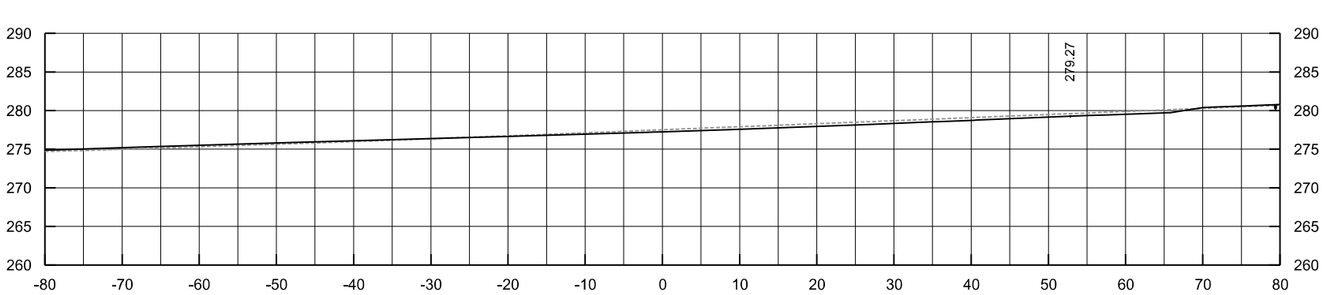
CUT VOLUME 10
FILL VOLUME 0



AREA CUT 28.37
AREA FILL 0.00

500+01.50

CUT VOLUME 0
FILL VOLUME 0



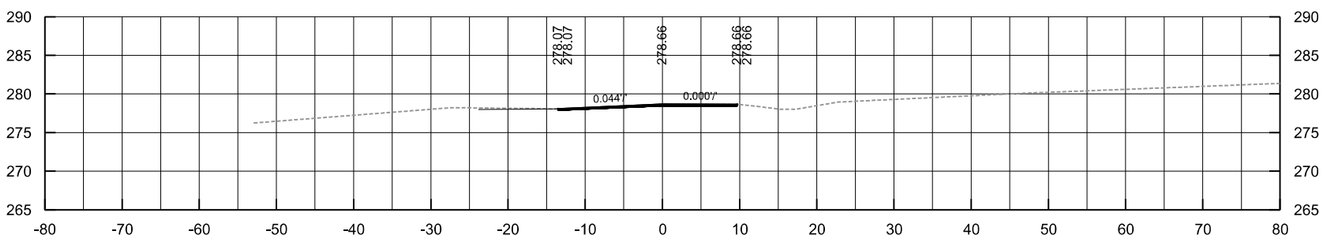
AREA CUT 0.00
AREA FILL 0.00

500+00.00

CUT VOLUME 0
FILL VOLUME 0

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FEDERAL DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	C32005	101	104

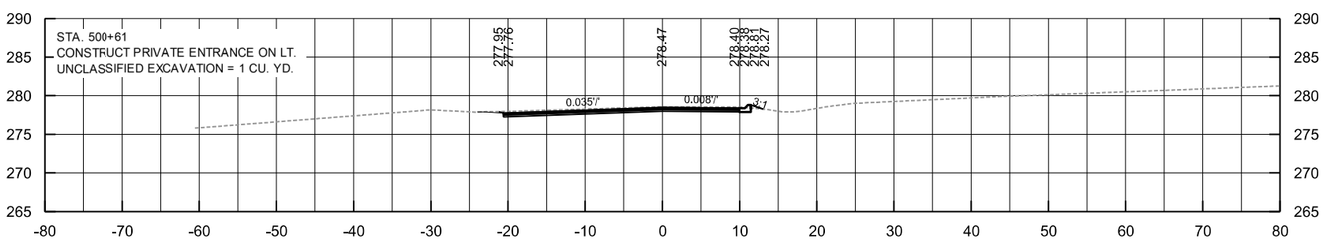
4 CROSS SECTIONS STA. 500+00.00 TO 500+14.00



AREA CUT 3.87
AREA FILL 0.00

500+69.18

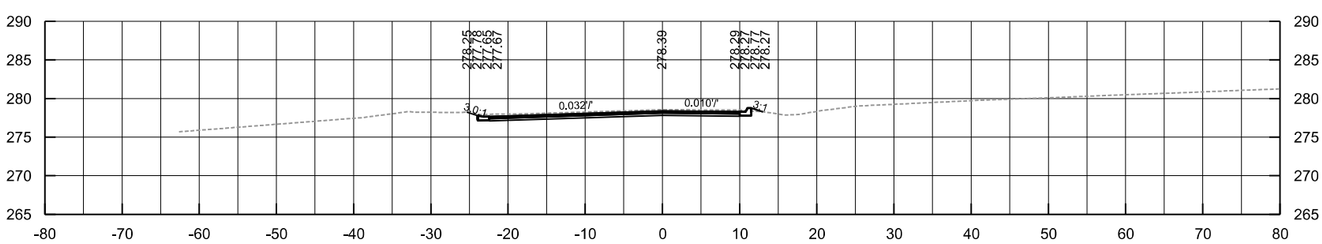
CUT VOLUME 3
FILL VOLUME 0



AREA CUT 20.16
AREA FILL 0.31

500+61.35

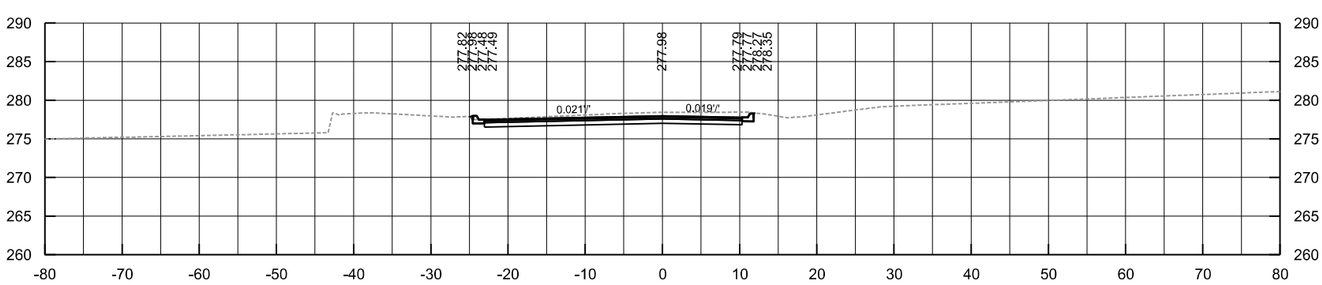
CUT VOLUME 2
FILL VOLUME 0



AREA CUT 27.44
AREA FILL 0.28

500+59.22

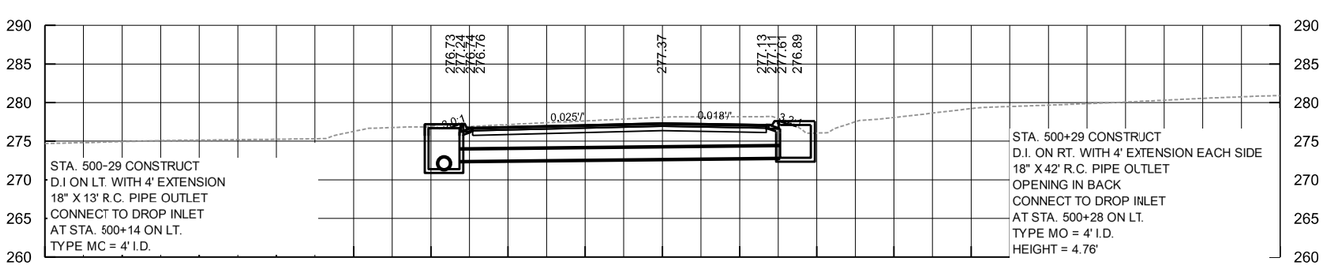
CUT VOLUME 13
FILL VOLUME 0



AREA CUT 46.52
AREA FILL 0.12

500+50.00

CUT VOLUME 44
FILL VOLUME 0



AREA CUT 65.48
AREA FILL 0.31

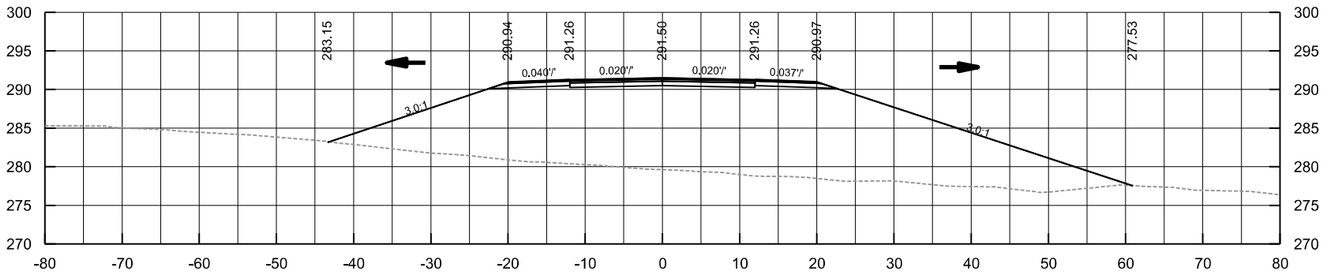
500+29.00

CUT VOLUME 42
FILL VOLUME 0

4 CROSS SECTIONS STA. 500+29.00 TO 500+69.18

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	C32005	102	104

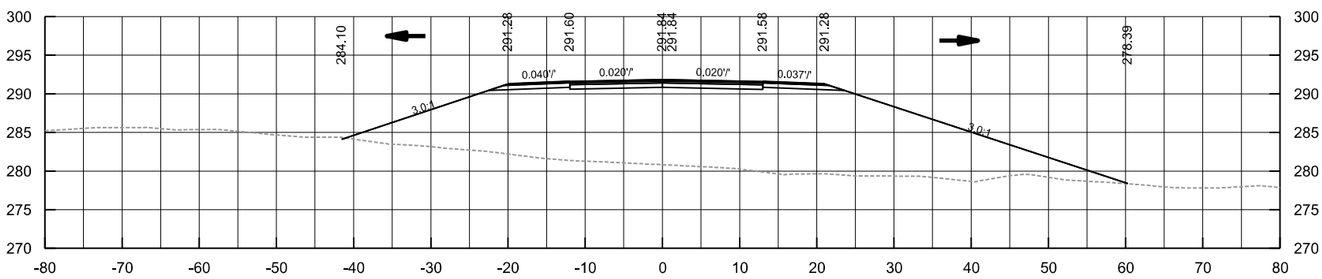
JOB NO.



AREA CUT 0.01
AREA FILL 819.26

601+10.00
END 4' TAPER TRANSITION ON RT.

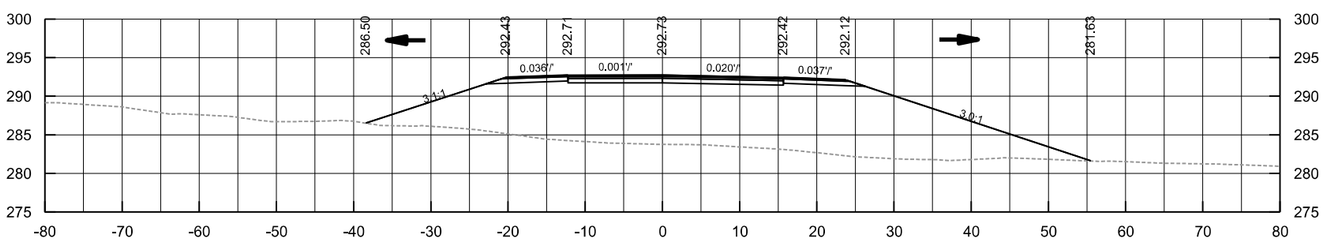
CUT VOLUME 0
FILL VOLUME 287



AREA CUT 0.07
AREA FILL 728.92

601+00.00

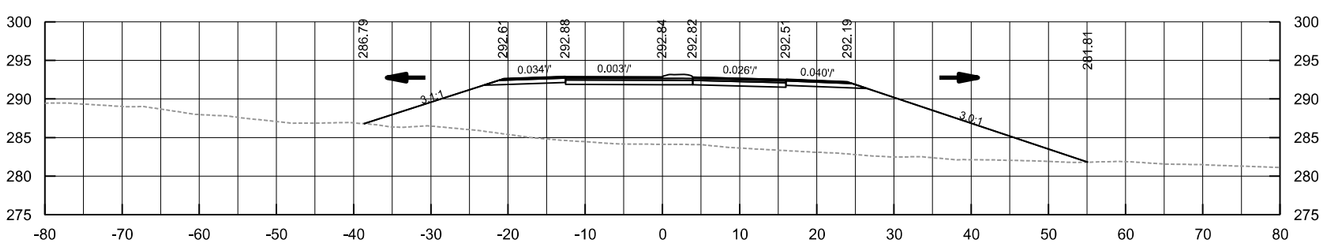
CUT VOLUME 0
FILL VOLUME 644



AREA CUT 0.00
AREA FILL 571.27

600+73.24

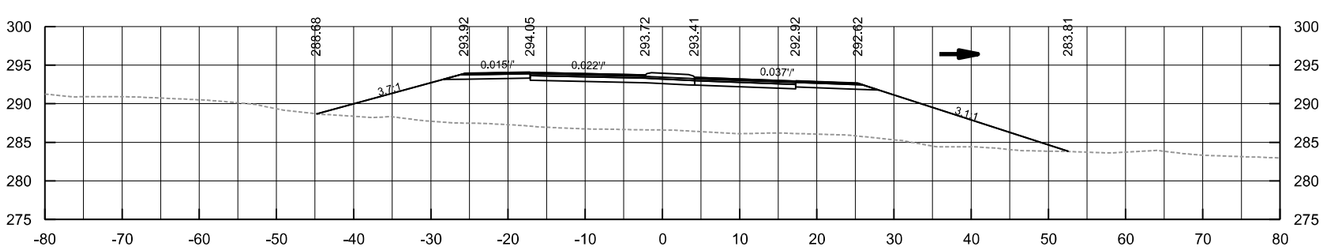
CUT VOLUME 0
FILL VOLUME 68



AREA CUT 0.00
AREA FILL 555.52

600+70.00
BEING 4' TAPER TRANSITION ON RT.

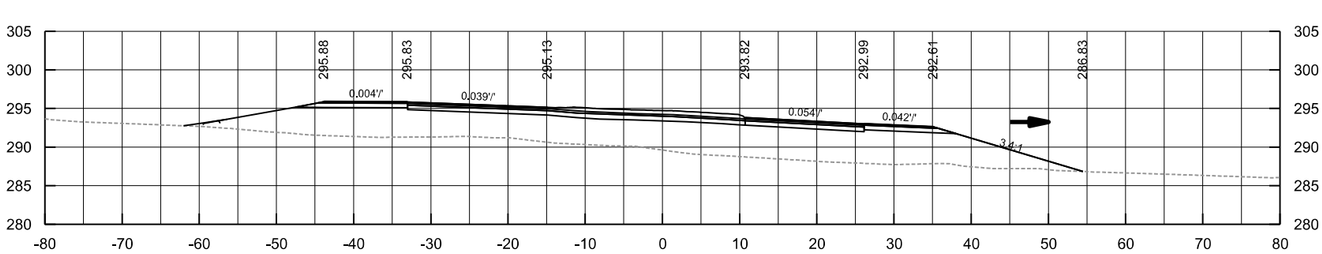
CUT VOLUME 0
FILL VOLUME 378



AREA CUT 0.00
AREA FILL 465.39

600+50.00

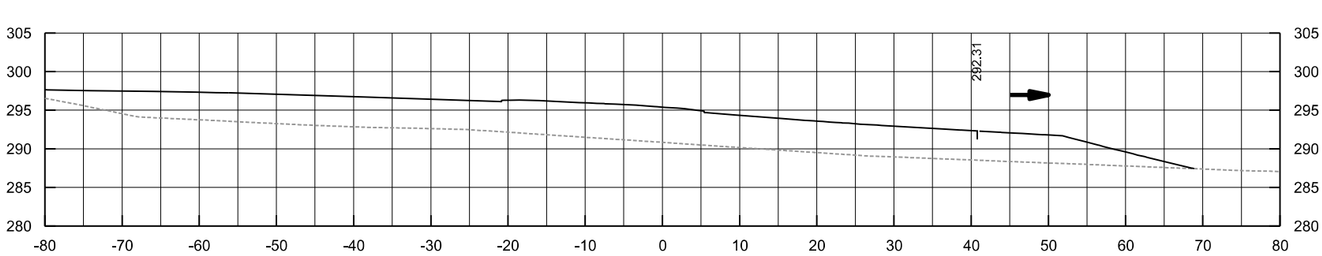
CUT VOLUME 0
FILL VOLUME 436



AREA CUT 0.00
AREA FILL 378.90

600+22.09

CUT VOLUME 0
FILL VOLUME 155



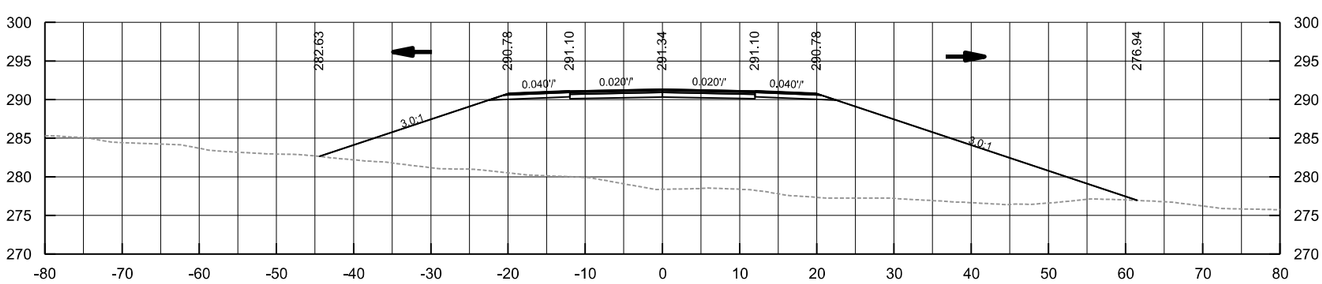
AREA CUT 0.00
AREA FILL 0.00

600+00.00

CUT VOLUME 0
FILL VOLUME 0

DATE REVISED	DATE PLANED	DATE REVISED	DATE PLANED	FEDERAL DIST. NO.	6
				STATE	ARK.
				FED.AID PROJ.NO.	C32005
				SHEET NO.	103
				TOTAL SHEETS	104

4 CROSS SECTIONS STA. 600+00.00 TO 601+10.00



AREA CUT 0.00
AREA FILL 866.31

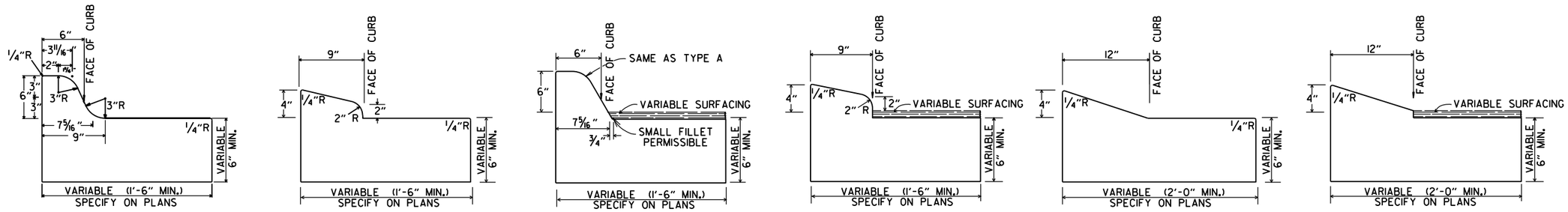
601+15.00
END STUBOUT

CUT VOLUME 0
FILL VOLUME 156

DATE REVISED	DATE PLANED	DATE REVISED	DATE PLANED	FED.RD. DIST.NO.	6
				STATE	ARK.
				FED.AID PROJ.NO.	C32005
				SHEET NO.	104
				TOTAL SHEETS	104

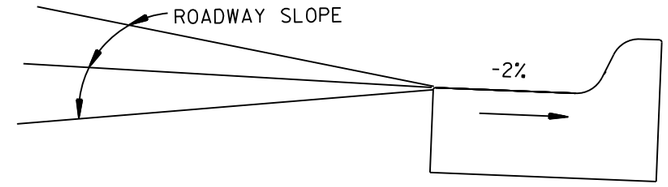
4 CROSS SECTIONS STA. 601+15.00 TO 601+15.00

JOB NO.



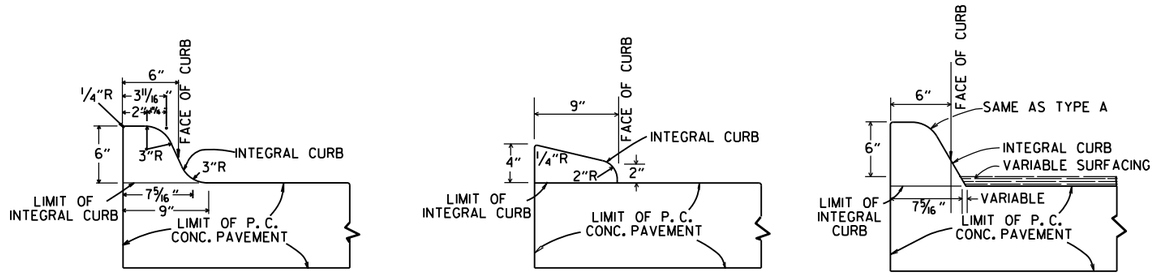
TYPE A TYPE B-1 TYPE C TYPE B-2 TYPE E-1 TYPE E-2

CONCRETE COMBINATION CURB AND GUTTER



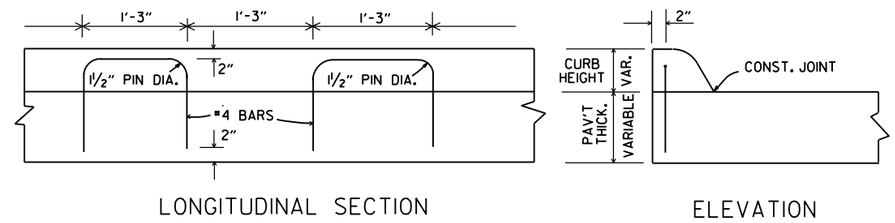
DETAIL OF GUTTER SLOPE

GUTTER SHALL BE CONSTRUCTED ON 2% SLOPE AWAY FROM ROADWAY, REGARDLESS OF ROADWAY SLOPE.



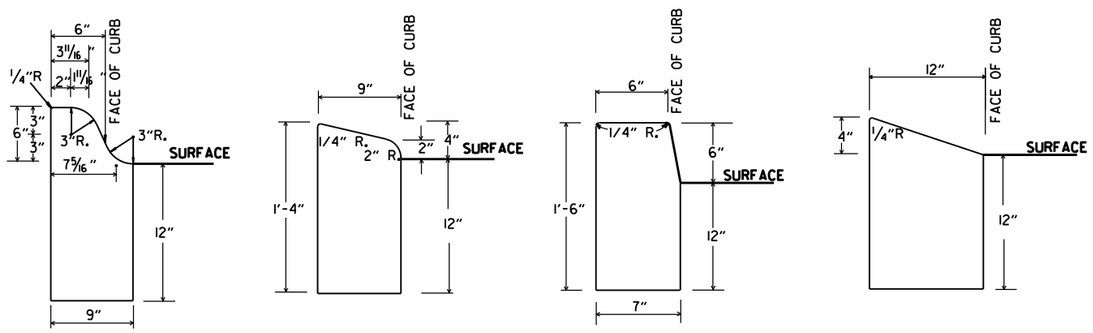
TYPE A TYPE B TYPE C

INTEGRAL CURB



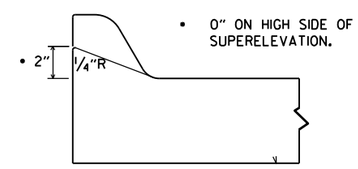
LONGITUDINAL SECTION ELEVATION

ALTERNATE CONSTRUCTION METHOD FOR INTEGRAL CURB



TYPE A TYPE B TYPE D TYPE E

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.

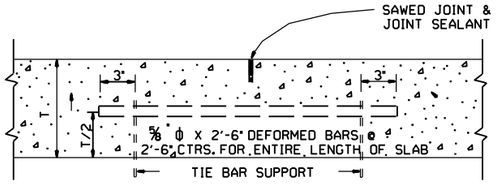
DETAILS OF MODIFIED CURB

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

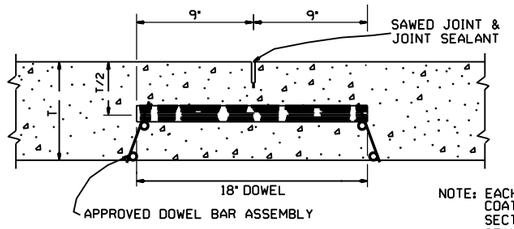
CURBING DETAILS

STANDARD DRAWING CG-1



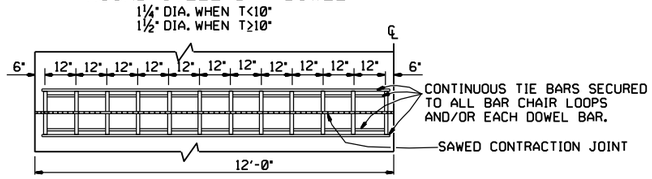
LONGITUDINAL JOINT

NOTE: THE TIE BAR SUPPORT SHOWN ABOVE MAY BE ELIMINATED IF OTHER APPROVED METHODS FOR PLACING AND SUPPORTING THE TIE BARS ARE PROVIDED.
TIE BARS SHALL BE 15" FROM TRANSVERSE JOINTS.



NOTE: EACH DOWEL TO BE COATED ACCORDING TO SECTION 502 OF THE STANDARD SPECIFICATIONS.

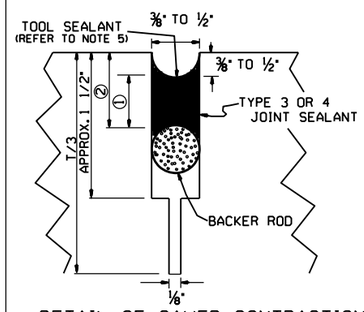
ROUND STEEL BAR DOWEL
1¼" DIA. WHEN T<10"
1½" DIA. WHEN T≥10"



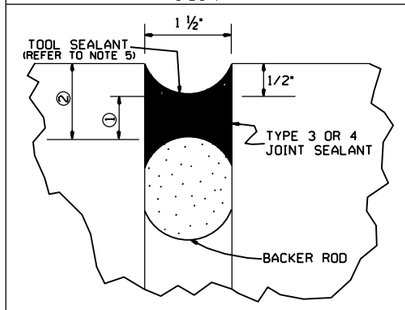
ONE-HALF 24' PAVEMENT
12 DOWELS
PLAN

NOTE: FOR 20' PAVEMENT USE 20 DOWELS @ 12" CTRS. WITH 6" SPACING FROM C.L. AND EDGE OF SLAB TO FIRST BAR. FOR 15' PAVEMENT USE 15 DOWELS @ 12" CTRS. WITH 6" SPACING FROM C.L. AND EDGE OF SLAB TO FIRST BAR. FOR 26' PAVEMENT USE 26 DOWELS @ 12" CTRS. WITH 6" SPACING FROM C.L. AND EDGE OF SLAB TO FIRST BAR. FOR PAVEMENT WIDTHS OTHER THAN THOSE SHOWN ABOVE, USE DOWELS AT 12" CTRS. WITH 6" MAX. SPACING FROM C.L. TO FIRST BAR. DISTANCE FROM EDGE OF SLAB TO FIRST BAR SHALL BE ADJUSTED TO MAINTAIN 12" DOWEL BAR SPACING

CONTRACTION JOINT DETAILS



DETAIL OF SAWED CONTRACTION JOINT



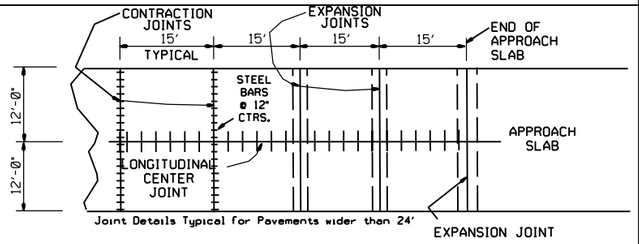
DETAIL OF EXPANSION JOINT

JOINT CONFIGURATION FOR TYPE 3 OR 4 JOINT SEALANT

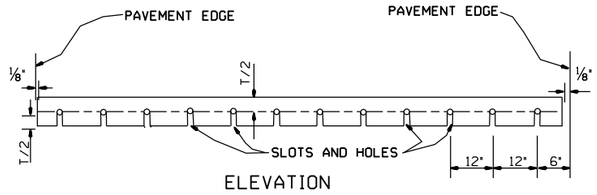
JOINT WIDTH	SEALANT THICKNESS ①	BACKER ROD DIAMETER	BACKER ROD PLACEMENT DEPTH ②
INCHES			
¼	¼	⅜	½
⅜	¼	½	½
½	¼	⅝	½
⅝	5/16	¾	9/16
¾	⅜	⅞	⅞
1 ½	¾	2	1 ¼

JOINT CONFIGURATION FOR TYPE 5 JOINT SEALANT

JOINT WIDTH	SEALANT THICKNESS ①	BACKER ROD DIAMETER	BACKER ROD PLACEMENT DEPTH ②
INCHES			
¼	½	⅜	¾
⅜	¾	½	1

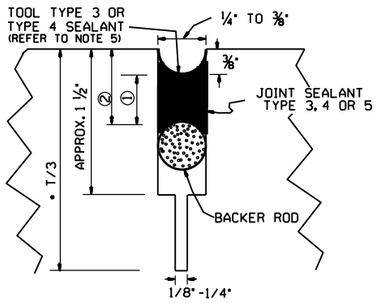


PLAN SHOWING EXPANSION JOINTS AT BRIDGE APPROACH SLABS



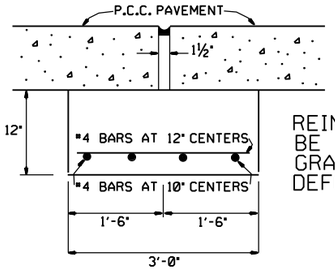
ELEVATION

NOTE: ALL DOWEL BARS SHALL CONFORM TO THE DETAILS FOR CONTRACTION JOINTS.



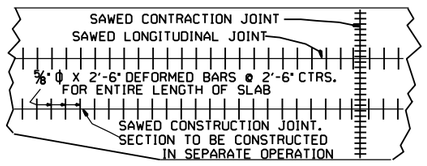
*NOTE: T/3 SAW CUT NOT REQUIRED FOR LONGITUDINAL CONSTRUCTION JOINT.

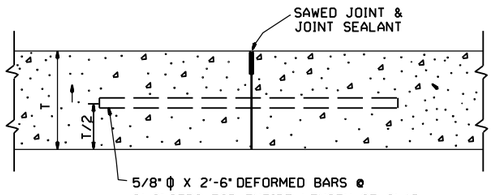
DETAIL OF SAWED LONGITUDINAL JOINT AND LONGITUDINAL CONSTRUCTION JOINT



REINFORCING SHALL BE GRADE 40 OR GRADE 60 DEFORMED BARS.

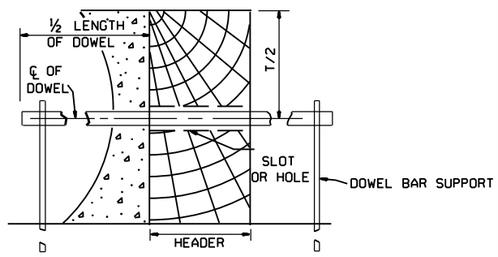
DETAIL OF JOINT SUPPORT FOR EXPANSION JOINTS





NOTE: TIE BARS SHALL BE 15" FROM TRANSVERSE JOINTS.

LONGITUDINAL CONSTRUCTION JOINT



SECTION

TRANSVERSE CONSTRUCTION JOINT

DATE	REVISION	DATE FILMED
11-07-19	REV. EXP. JOINT REF ON APP. SLAB	
5-25-06	ADDED GENERAL NOTE 7	
10-9-03	REMOVED TIE BAR COATING & REVISED GENERAL NOTES	
11-16-01	ADDED TOOL SEALANT AND NOTE 5; REVISED NOTE 3	
4-26-96	REVISED CONTRACTION JOINT NOTE	
11- 3-94	ADDED NOTE RE: REINF. BARS	
4- 1-93	REVISED DOWEL BARS & GEN. NOTES	4- 1-93
10- 1-92	REVISED DOWEL SPACING	10- 1-92
8- 15-91	ADDED SPAC FOR CONTR JTS & DEL KEYWAY	
05-24-90	REVISED TIE BAR, DOWEL & JOINT SIZE	
01-25-90	ADDED EXPANSION JOINT	01-25-90
11-30-89	CHANGED T/4+1 TO T/3+1	11-30-89
03-23-89	ALTERED SAWED JOINT & ADDED NOTE	512-03-23-89
07-15-88	REVISED AND REDRAWN	632-07-15-88

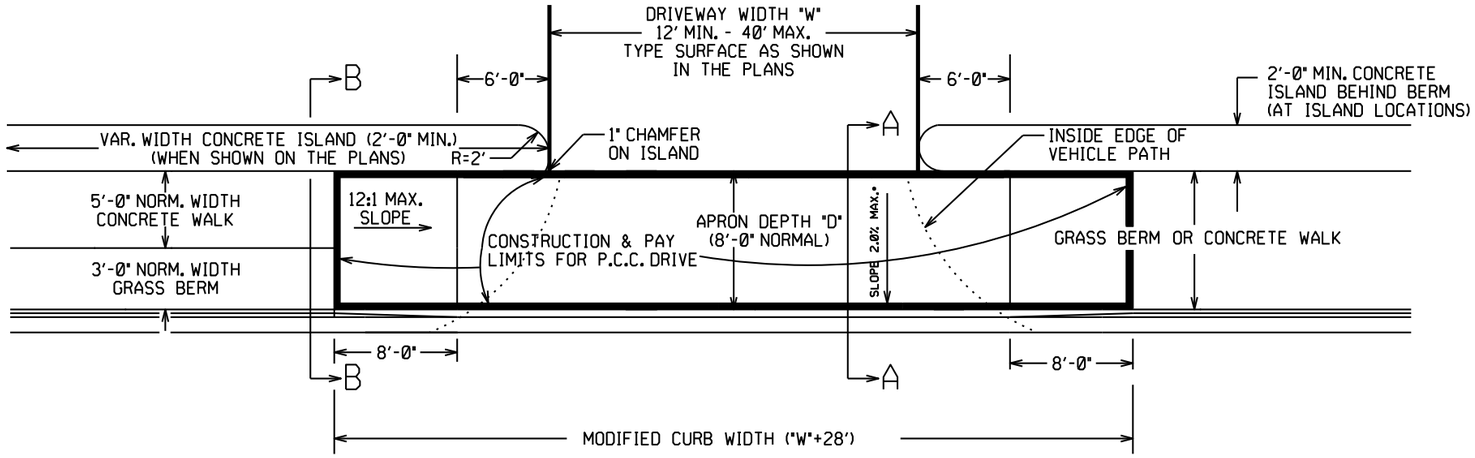
GENERAL NOTES

1. "T" DENOTES THICKNESS OF SLAB.
2. DOWEL BARS SHALL BE PLACED IN ACCORDANCE WITH THE DIMENSIONS SHOWN. A TOLERANCE OF PLUS OR MINUS ONE INCH WILL BE ALLOWED FOR THE VERTICAL AND LATERAL PLACEMENT AND A TOLERANCE OF PLUS OR MINUS ¼" WILL BE ALLOWED FOR THE TILT AND SKEW. DOWEL BARS SHALL BE FIELD COATED FOR A MINIMUM DISTANCE OF 2" GREATER THAN HALF THE LENGTH OF THE BAR WITH AN APPROVED GREASE AS A BOND BREAKER JUST PRIOR TO PLACEMENT OF CONCRETE.
3. THE EXPANSION JOINT SUPPORT MAY BE CONSTRUCTED WITH CLASS "A", "S" OR PAVING CONCRETE. PAYMENT FOR THE JOINT SUPPORT SHALL BE FOR THE CONTRACT UNIT PRICE BID FOR THE CLASS OF CONCRETE SPECIFIED IN THE PLANS. PAYMENT FOR ALL OTHER WORK AND MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE JOINT SUPPORT SHALL BE INCLUDED IN THE PRICE BID FOR THE ABOVE ITEMS.
4. CONTRACTION JOINTS SHALL BE CONSTRUCTED ON 15' CENTERS.
5. TOOLING NOT REQUIRED FOR SELF-LEVELING SILICONE.
6. UNLESS OTHERWISE SPECIFIED IN THE PLANS, CONCRETE SHOULDERS SHALL BE CONSTRUCTED ACCORDING TO THE DETAILS SHOWN HEREON. CONTRACTION JOINTS SHALL MATCH CONTRACTION JOINTS IN THE LANES.
7. TIE WIRES IN DOWEL BAR ASSEMBLIES SHALL NOT BE CUT PRIOR TO PLACEMENT OF PAVING CONCRETE.

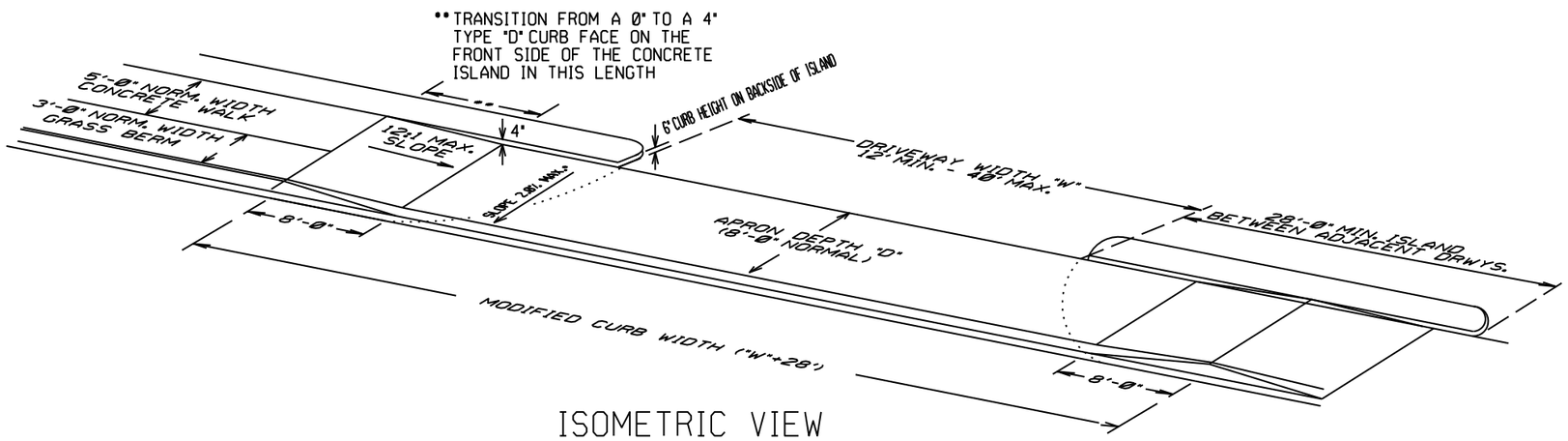
ARKANSAS STATE HIGHWAY COMMISSION

TRANSVERSE & LONGITUDINAL JOINTS FOR CONCRETE PAVEMENT (NON-REINFORCED)

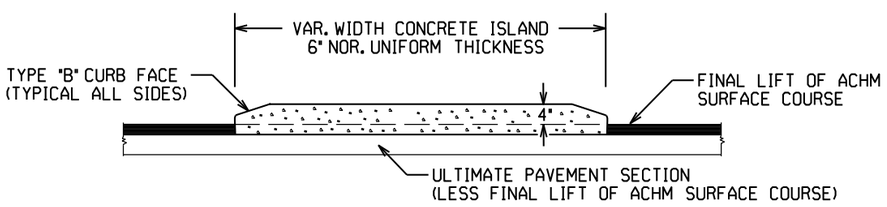
STANDARD DRAWING CPTJ - 6A

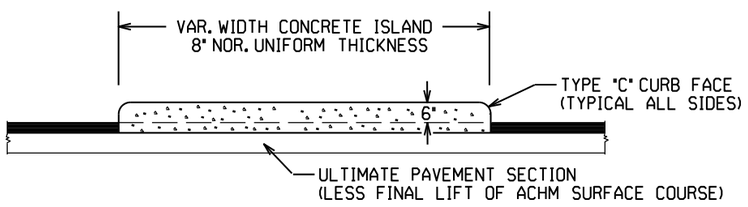


PLAN VIEW



ISOMETRIC VIEW



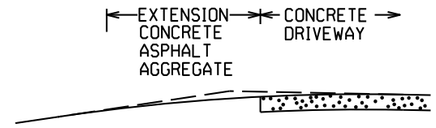


CURBED ISLANDS FOR CHANNELIZATION

CONCRETE ISLAND NOTES:

1. 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".

2. TRANSVERSE EXPANSION JOINTS, NOT LESS THAN 1/2" WIDE, SHALL BE PLACED AT MINIMUM INTERVAL OF 45'. TRANSVERSE JOINT SHALL BE CONSTRUCTED USING A JOINT FILLER COMPLYING WITH AASHTO M213.



EXTENSION TYPICAL SECTIONS

1: CONCRETE - 6" P.C. CONCRETE DRIVEWAY

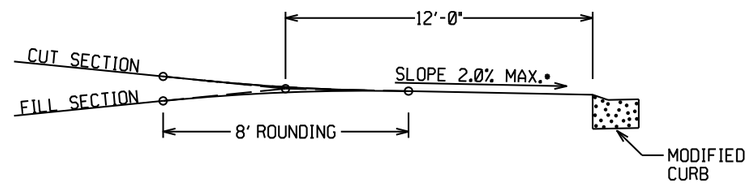
2: ASPHALT - 2" ACHM SURFACE COURSE (1/2")
4" ACHM BINDER COURSE (1") OR
4" ACHM BASE COURSE (1-1/2")

3: ASPHALT - 2" ACHM SURFACE COURSE (1/2")
7" AGGREGATE BASE COURSE

4: AGGREGATE - 6" AGGREGATE BASE COURSE

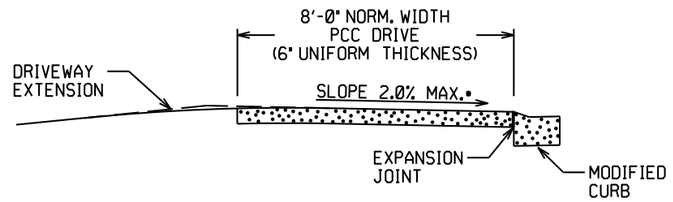
THE TYPE OF EXTENSION SHALL BE AS SHOWN IN THE PLANS. THE CONTRACTOR MAY, WITH THE APPROVAL OF THE ENGINEER, SUBSTITUTE A LOWER NUMBERED TYPE OF EXTENSION IN LIEU OF THE TYPE SPECIFIED IN THE PLANS, BUT AT NO ADDITIONAL COST TO THE DEPARTMENT.

DRIVEWAY EXTENSION DETAILS

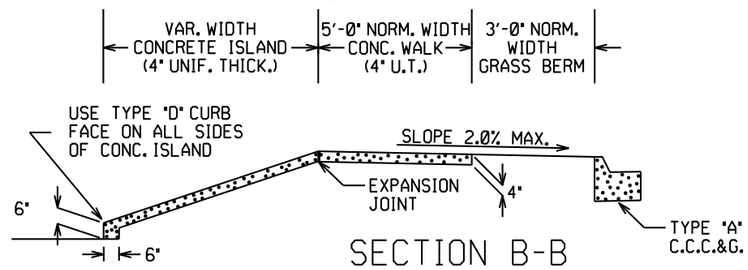


DRIVEWAY VERTICAL ALIGNMENT DETAILS

• NOTE: DRIVEWAYS MAY NOT BE SLOPED AWAY FROM THE ROADWAY UNLESS APPROVED BY THE ENGINEER.



SECTION A-A



SECTION B-B

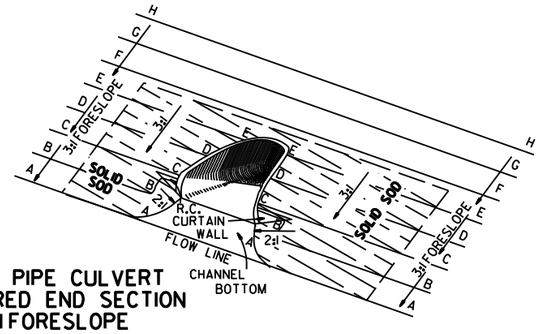
CURBED ISLAND BEHIND WALK

DATE REV	DATE FILMED	DESCRIPTION
5-19-22		REVISED ISLAND NOTES
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

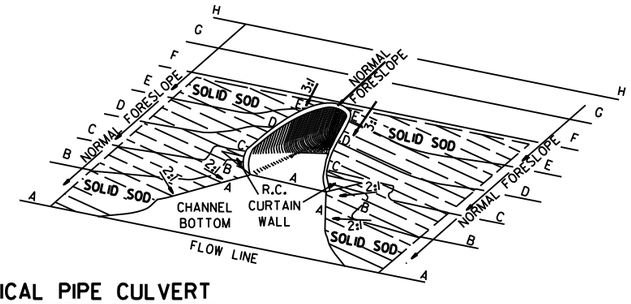
ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DRIVEWAYS & ISLANDS

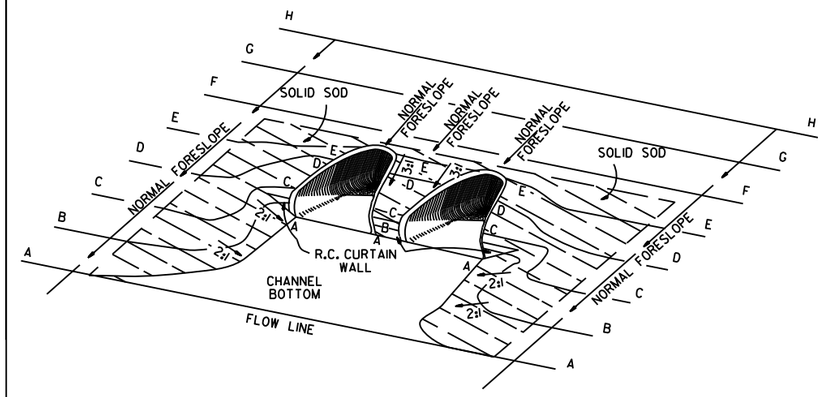
STANDARD DRAWING DR-1



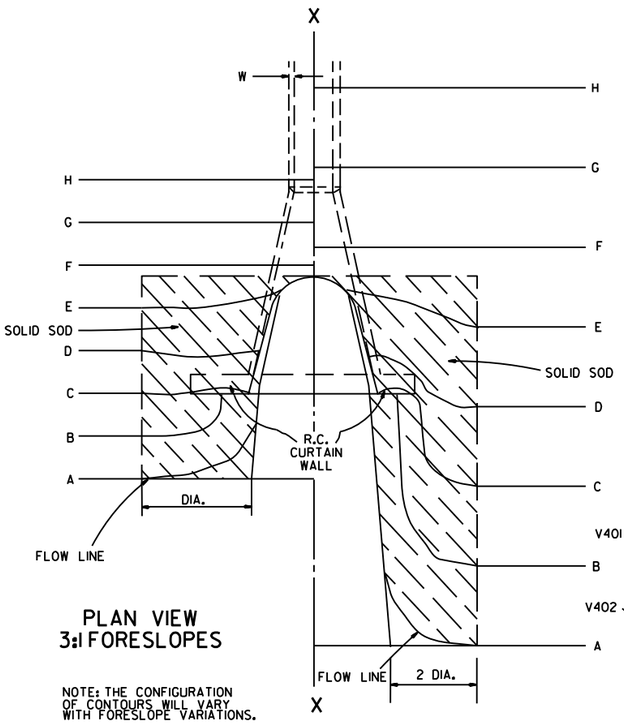
TYPICAL PIPE CULVERT
WITH FLARED END SECTION
& 3:1 FORESLOPE



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

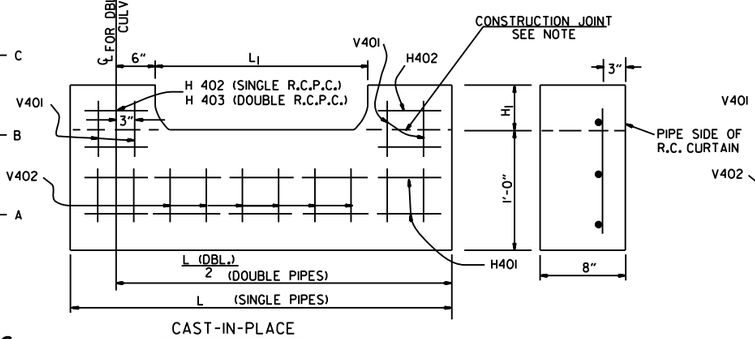
PIPE DIA.	H_1	L_1	L	L (DBL.)/2	SINGLE R.C.P.C. CONC.	SINGLE R.C.P.C. REINF. STEEL	DOUBLE R.C.P.C. CONC.	DOUBLE R.C.P.C. REINF. STEEL
					CU. YDS.	LBS.	CU. YDS.	LBS.
18"	11½"	3'-5"	8'-0"	6'-3"	0.31	27.7	0.45	39.5
24"	1'-0½"	4'-6"	9'-6"	7'-6"	0.37	33.4	0.53	48.0
30"	1'-3½"	5'-7"	11'-0"	9'-0"	0.45	39.0	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.

REINFORCING STEEL SCHEDULE

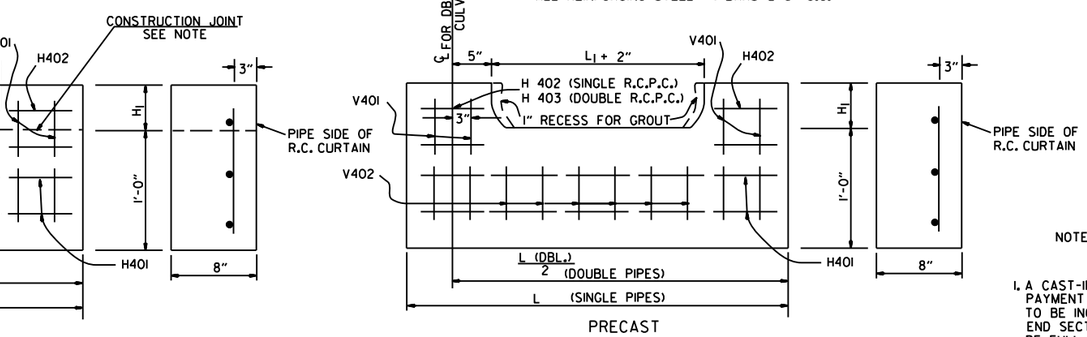
PIPE DIA.	SINGLE R.C. PIPE CULVERT H401 L	H401 NO.	H402 L	H402 NO.	V401 L	V401 NO.	V402 L	V402 NO.	DOUBLE R.C. PIPE CULVERT H401 L	H401 NO.	H402 L	H402 NO.	H403 L	H403 NO.	V401 L	V401 NO.	V402 L	V402 NO.
18"	7'-8"	2	1'-11½"	4	1'-7½"	8	8"	8	12'-2"	2	1'-11½"	4	8"	2	1'-7½"	10	8"	14
24"	9'-2"	2	2'-2"	4	1'-8½"	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.



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.

R.C. CURTAIN WALL DETAILS

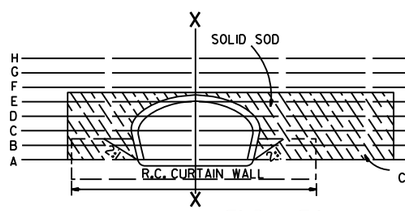
SOLID SODDING

PIPE DIA.	SINGLE R.C.P.C. 3:1	SINGLE R.C.P.C. 4:1	SINGLE R.C.P.C. 6:1	DOUBLE R.C.P.C. 3:1	DOUBLE R.C.P.C. 4:1	DOUBLE R.C.P.C. 6:1
	SQ. YDS.			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

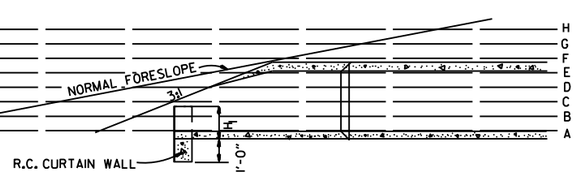
NOTE: QUANTITIES SHOWN ABOVE ARE FOR ONE (1) END OF F.E.S.

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"

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

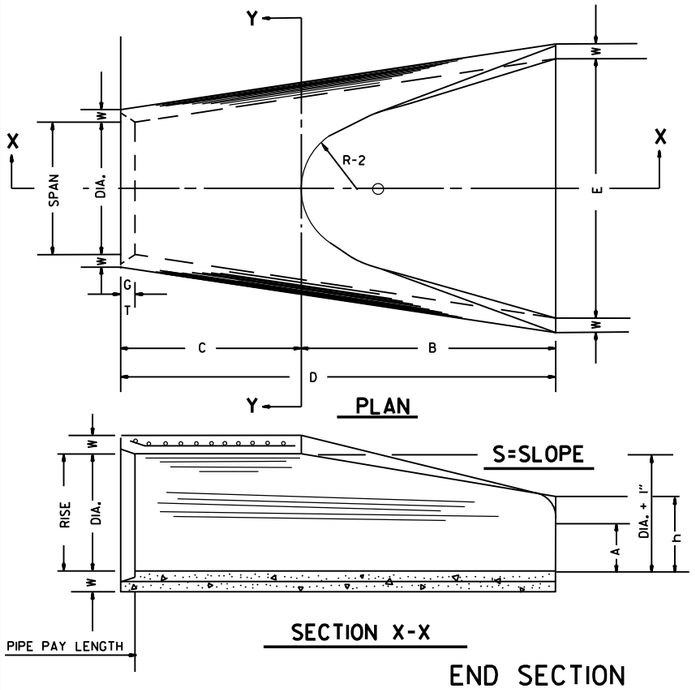


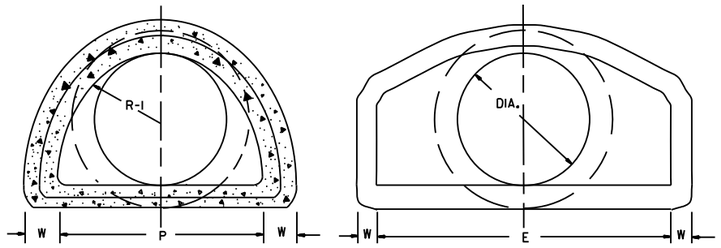
TABLE OF DIMENSIONS

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"	33 3/16"	16 15/16"	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"	47 13/16"	24 9/16"	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"	33⅛"	24"	4"	8750	2'-10½"
60"	6"	2'-10"	6'-6"	1'-10"	8'-4"	8'-0"	3:1	61"	72½"	36 11/16"	24"	4"	9270	3'-5"
72"	7"	3'-10"	6'-6"	1'-10"	8'-4"	9'-0"	3:1	73"	77 13/16"	38 15/16"	24"	5"	13250	4'-6"

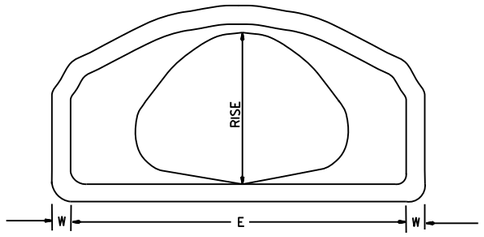
ARCH PIPE

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"	36 11/16"	15"	2½"	2½:1
30	36¼	36	22½	23	3½"	10"	3'-1"	3'-0½"	6'-1½"	6'-0"	47 13/16"	20"	3"	2½:1
36	43¾	44	26⅝	27	4"	10½"	4'-0"	2'-11½"	6'-1½"	6'-6"	54 5/16"	22"	3½"	2½:1
42	51⅛	51	31 5/16	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"	70 5/16"	24"	4¼"	2½:1
54	65	65	40	40	5½"	1'-7"	5'-3"	2'-11"	8'-2"	8'-6"	72 1/16"	24"	4¾"	2¼:1
60	73	73	45	45	6"	1'-10"	5'-6"	2'-8"	8'-2"	9'-0"	77 13/16"	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.

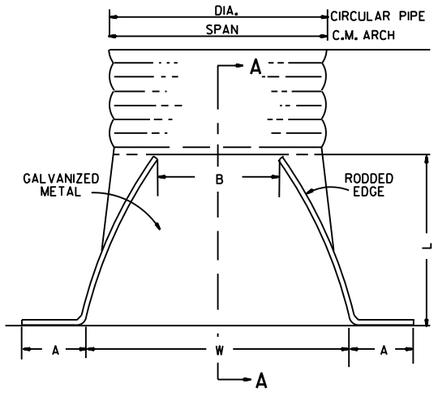


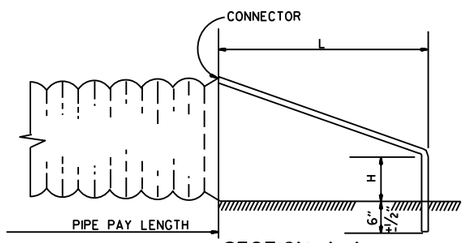
NOTE: TONGUE END ON UPSTREAM SECTION
GROOVE END ON DOWNSTREAM SECTION

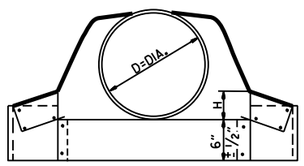


END VIEW
CONCRETE ARCH PIPE

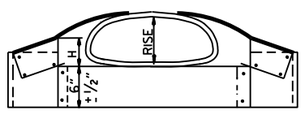
END SECTION
FOR REINFORCED CONCRETE PIPE CULVERTS







CIRCULAR PIPE



C.M. ARCH PIPE

CIRCULAR PIPE

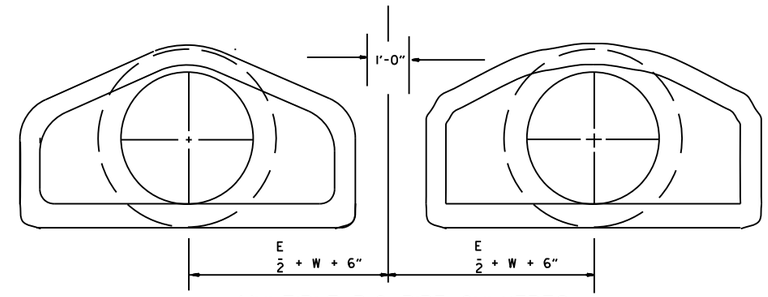
D. DIA.	GAUGE	A 1" ±	B. MAX.	H 1" ±	L 1½" ±	W 2" ±	S
		INCHES					
12	16	6	6	6	21	24	2½:1
15	16	7	8	6	26	30	2½:1
18	16	8	10	6	31	36	2½:1
21	16	9	12	6	36	42	2½:1
24	16	10	13	6	41	48	2½:1
30	14	12	16	8	51	60	2½:1
36	14	14	19	9	60	72	2½:1
42	12	16	22	11	69	84	2½:1
48	12	18	27	12	78	90	2½:1
54	12	18	30	12	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

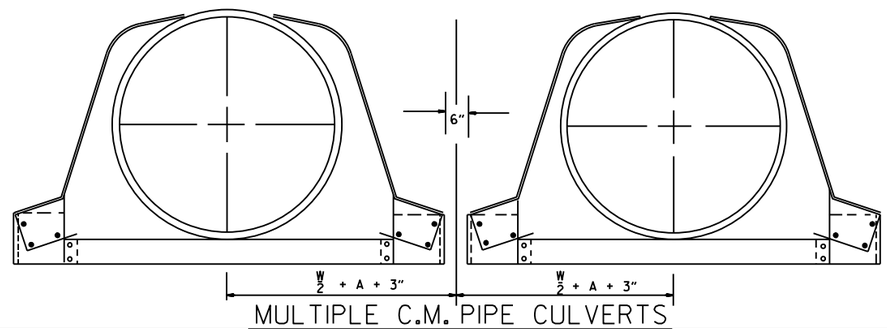
EQUIV. DIA.	SPAN	RISE	A 1" ±	B MAX.	H 1" ±	L 1½" ±	W 2" ±	S	GAUGE
	INCHES								
15"	17	13	7	9	6	19	30	2½:1	16
18"	21	15	7	10	6	23	36	2½:1	16
21"	24	18	8	12	6	28	42	2½:1	16
24"	28	20	9	14	6	32	48	2½:1	16
30"	35	24	10	16	6	39	60	2½:1	14
36"	42	29	12	18	8	46	75	2½:1	14
42"	49	33	13	21	9	53	85	2½:1	12
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



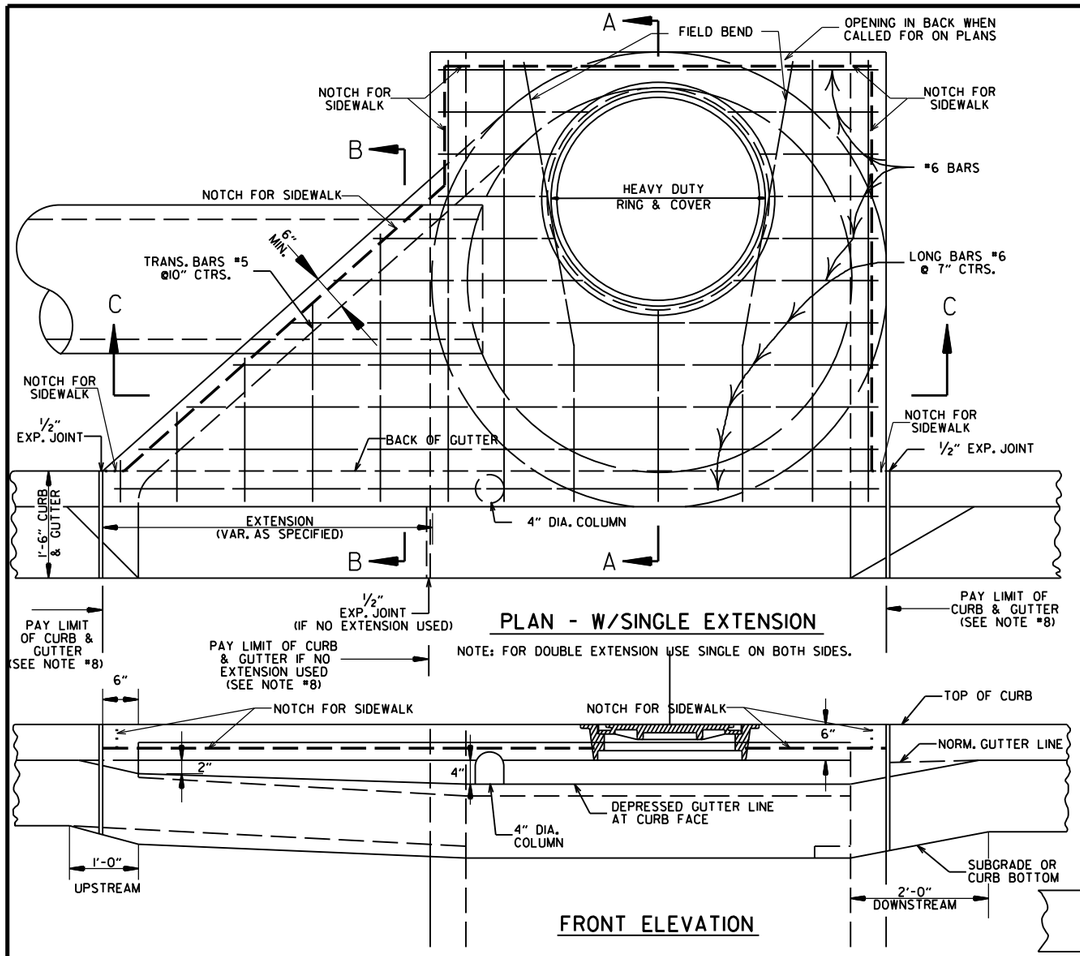
MULTIPLE C.M. PIPE CULVERTS

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

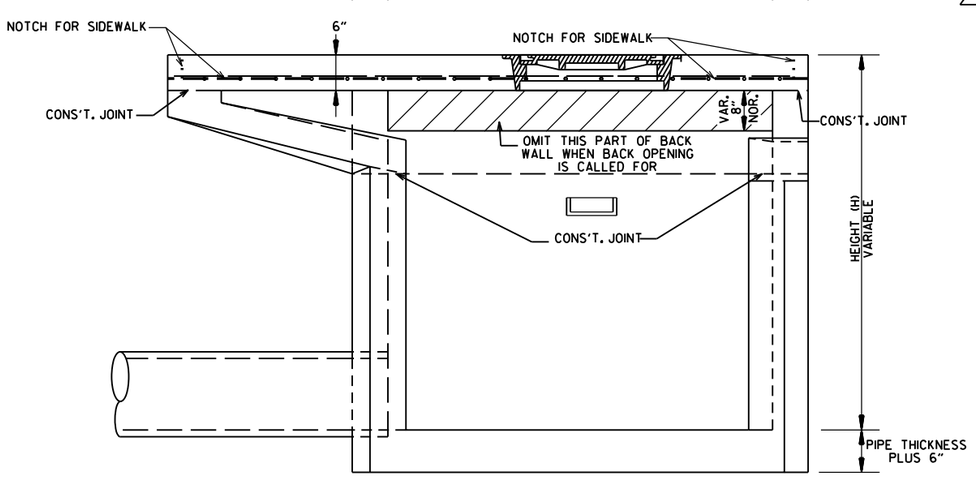
STANDARD DRAWING FES-2



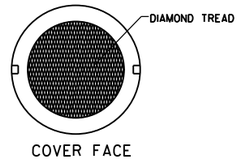
PLAN - W/SINGLE EXTENSION

NOTE: FOR DOUBLE EXTENSION USE SINGLE ON BOTH SIDES.

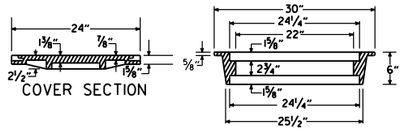
FRONT ELEVATION



SECTION C-C



COVER FACE



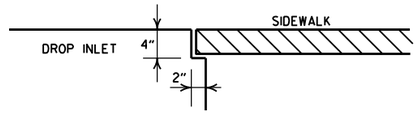
COVER SECTION

RING SECTION

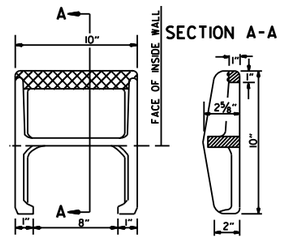
APPROXIMATE TOTAL WEIGHT = 333 LBS.

HEAVY DUTY RING & COVER

1. 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.
2. HEAVY DUTY RING AND COVER SHALL NOT BE PAINTED.
3. HEAVY DUTY RING SHALL ALWAYS BE INSTALLED WITH FLANGE ON TOP.



DETAIL OF NOTCH FOR SIDEWALKS



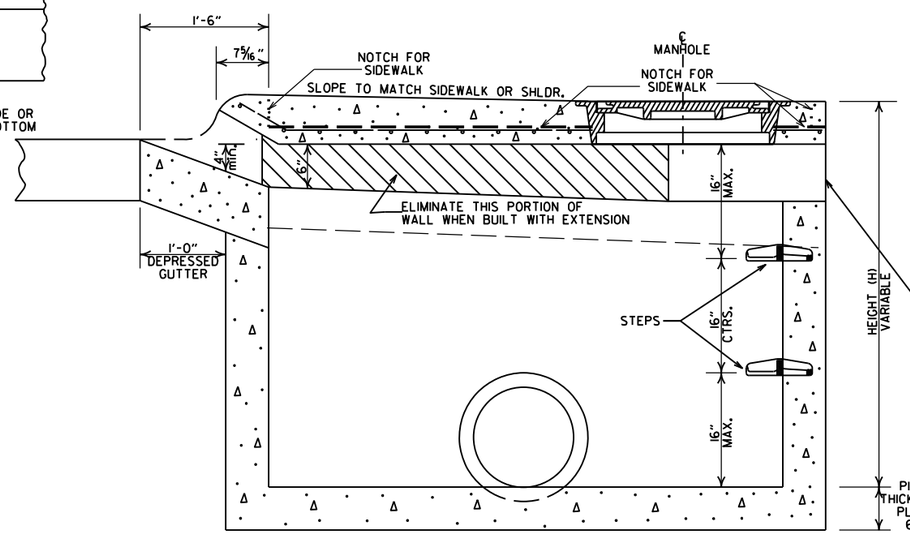
SECTION A-A

APPROX. WEIGHT = 11 LBS. (CAST IRON)

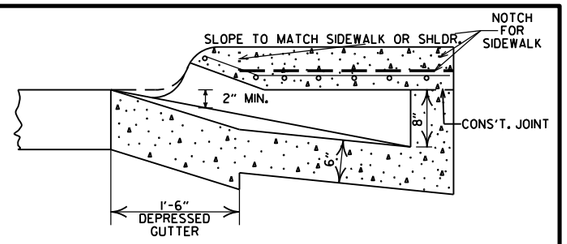
PLAN

NOTE: THIS DETAIL IS TYPICAL. OTHERS MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER.

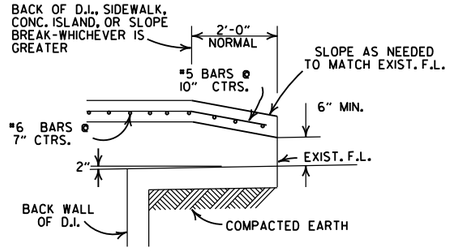
DETAIL OF STEP FOR DROP INLET



SECTION A-A



SECTION B-B



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 MO).

GENERAL NOTES:

1. ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER.
2. STEPS SHALL BE INSTALLED IN ALL INLETS 4'-0" HIGH AND OVER OR AS DIRECTED BY THE ENGINEER.
3. ALL REINFORCING BARS SHALL BE GRADE 60 AND HAVE MIN. 1 1/2" COVER.
4. DROP INLETS AND EXTENSION ON CURVED SECTIONS SHALL CONFORM TO THE CURVATURE OF THE CURB.
5. 4" DIA. COLUMNS SPACED AT MAX. 4'-0" INTERVALS SHALL BE INSTALLED ALONG INLET AND EXTENSION TO SUPPORT TOP.
6. BASE AND INLET WALLS SHALL BE CAST MONOLITHICALLY.
7. THE THROAT SHALL BE CAST INTEGRALLY WITH THE GUTTER.
8. 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.
9. PIPES MAY ENTER DROP INLET FROM ANY ANGLE OR ELEVATION AS MAY BE APPROVED BY THE ENGINEER.
10. APPROPRIATE SIZE TYPE C DROP INLETS MAY BE SUBSTITUTED FOR TYPE MO DROP INLETS AS APPROVED BY THE ENGINEER. PAYMENT TO BE AS DROP INLET (TYPE MO).
11. DURING CONSTRUCTION OF THE ROADWAY THE CONTRACTOR SHALL MAINTAIN DRAINAGE INTO OR AROUND THE DROP INLET AS APPROVED BY THE ENGINEER.
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.

LEAVE OPENING IN BACK WHEN CALLED FOR ON PLANS REFER TO BACK OPENING DETAIL

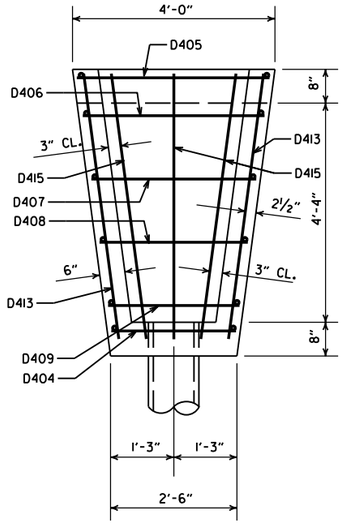
		MINIMUM WALL THICKNESS	
DIA. OF D.I.	DIA. OF OUTLET PIPE	CAST IN PLACE	PRECAST
4' I.D.	12" THRU 27"	6"	5"
5' I.D.	30" THRU 42"	8"	6"
6' I.D.	48" THRU 54"	8"	7"

DATE	REVISIONS	DATE FILMED
8-22-02	ADDED PAY LIMIT CURB NOTES TO SECTIONS A-A & B-B	
11-16-01	ADDED NOTE 13	
1-12-00	REVISED HEAVY DUTY RING & COVER	
5-13-99	ADDED NOTCH DETAIL FOR SIDEWALKS	
7-02-98	REP. NOTE 8, REM. PLAN DET., REV. PICTURE FOR NEW RING & COVER, ADDED HEAVY DUTY RING & COVER AND DETAIL OF STEP FOR DROP INLET	
4-26-96	ADDED NOTE 11, ADJ. OPENING DIMENSION	
10-12-95	CORRECTED #6 BAR SPACING	
7-20-95	CORRECTED DIAMETER OF D.I. IN BOX	
2-2-95	TYPE C TO MO (OPEN. BACK DETAIL)	
11-3-94	REVISED GENERAL NOTES	11-3-94
4-1-93	REV. BACK OPEN. DETAIL & NOTE	4-1-93
8-15-91	REVISED NOTES 1, 12 & ADDED BK.OPEN DETAIL	8-15-91
11-30-89	ADDED NOTE NO. 12	11-30-89
3-23-89	ADDED NOTE & MINUMUM WALL THICKNESS	513-3-23-89
7-15-88	ADDED EXTEND NOTE TO SECTION A-A	639-7-15-88
1-14-87	MODIFIED WALL THICKNESS	783-1-14-87
6-12-87	ISSUED	4-6-12-87

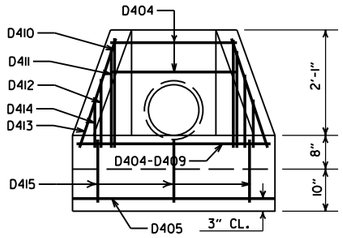
ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DROP INLET (TYPE MO)

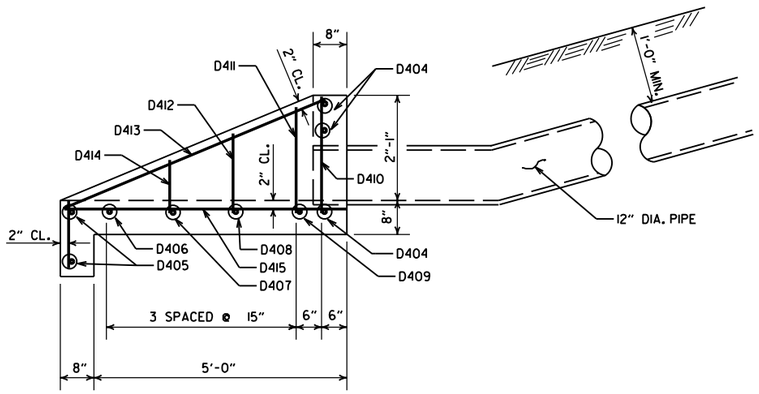
STANDARD DRAWING FPC-9M



PLAN



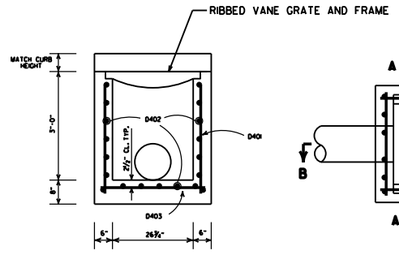
FRONT ELEVATION



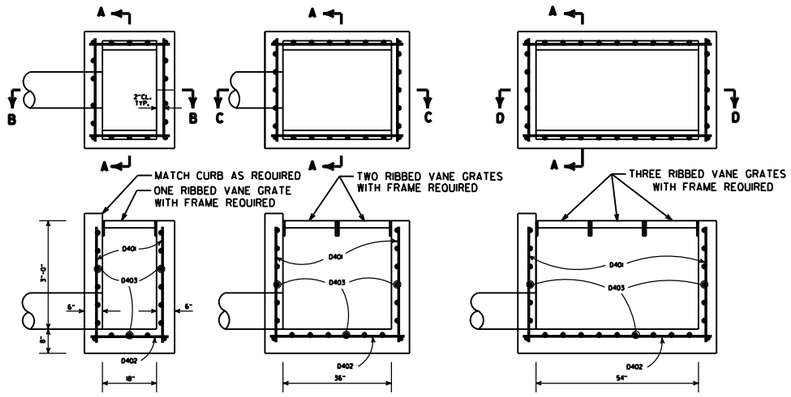
SIDE ELEVATION
CONCRETE SPILLWAY

BAR LIST (CONCRETE SPILLWAY)

MARK	NO. REQ'D.	LENGTH	BENDING DIAGRAM
D404	3	2'-2"	
D405	2	3'-8"	
D406	1	3'-5"	
D407	1	3'-1"	
D408	1	2'-9"	
D409	1	2'-5"	
D410	2	2'-5"	
D411	2	2'-2"	
D412	2	1'-9"	
D413	2	5'-6"	
D414	2	1'-2"	
D415	3	6'-5"	



SECTION A-A



SECTION B-B
DETAILS OF DROP INLET
(TYPE N-1)

SECTION C-C
DETAILS OF DROP INLET
(TYPE N-2)

SECTION D-D
DETAILS OF DROP INLET
(TYPE N-3)

BAR LIST (DROP INLET)

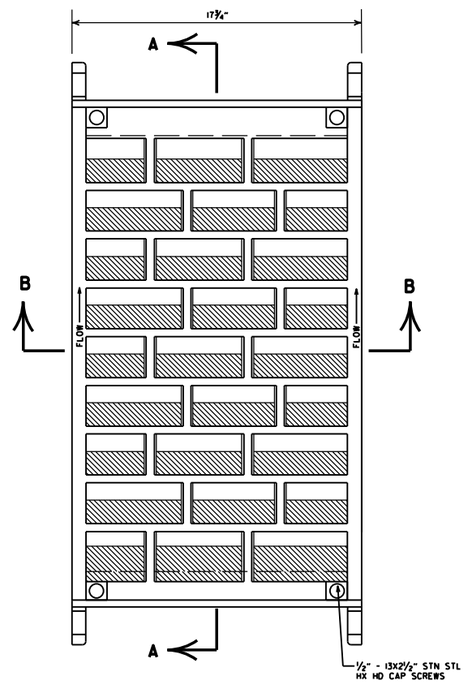
MARK	TYPE N-1		TYPE N-2		TYPE N-3	
	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH
D401	20	3'-0"	26	3'-0"	32	3'-0"
D402	19	2'-2"	19	3'-8"	19	5'-2"
D403	17	2'-11"	20	2'-11"	23	2'-11"

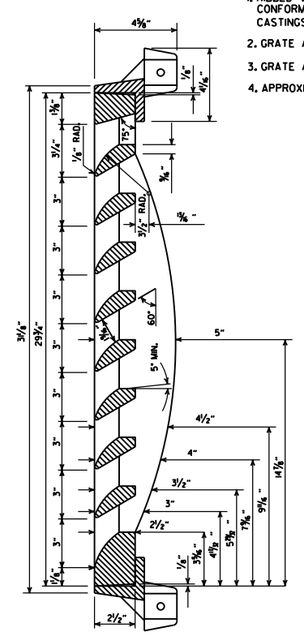
ALL BARS #4 @ 6" SPACING

DETAILS OF DROP INLET

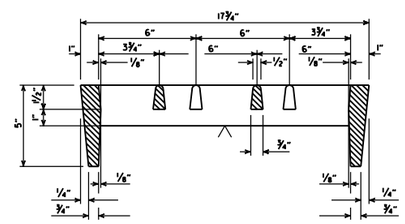
GENERAL NOTES (GRATE & FRAME)

1. RIBBED VANE GRATE AND FRAME SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M 105 CLASS 35B & AASHTO M 306.
2. GRATE AND FRAME SHALL NOT BE PAINTED.
3. GRATE AND FRAME SHALL BE INSTALLED IN DROP INLET IN ASSEMBLED POSITION.
4. APPROXIMATE WEIGHT OF GRATE SHALL BE 170 LBS.

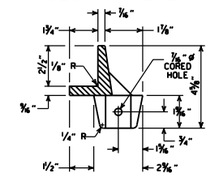




SECTION A-A



SECTION B-B



SECTION THRU FRAME

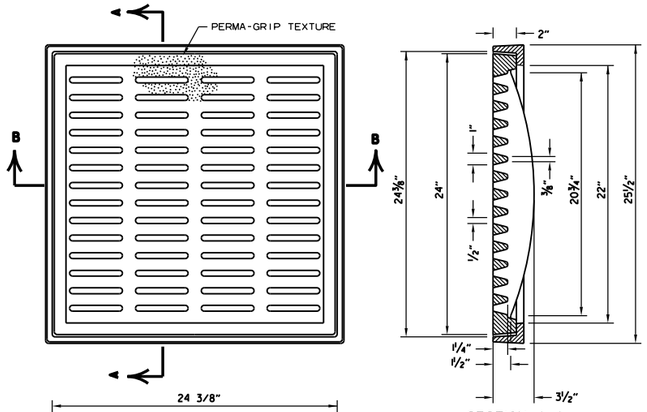
DETAILS OF RIBBED VANE GRATE AND FRAME

DATE REVISED	DATE FILMED	DESCRIPTION
7-02-98		REVISED SECT. A-A DETAIL OF DROP INLET & ADDED AASHTO REF. TO NOTE 1, REVISED GRATE
10-18-96		REVISED ASTM REF. TO AASHTO
8-15-91		ISSUED

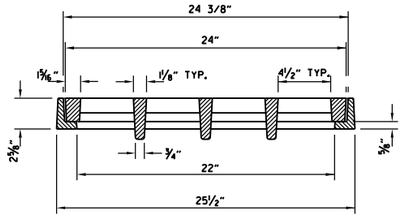
ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DROP INLETS AND SPILLWAY OUTLET

STANDARD DRAWING FPC-9N



SECTION A-A

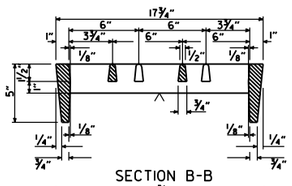


SECTION B-B

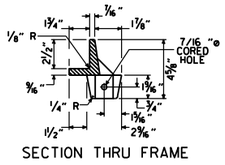
GENERAL NOTES (PEDESTRIAN GRATE & FRAME)

1. THE PEDESTRIAN GRATE SHALL BE ORIENTED IN THE TOP OF THE DROP INLET SO THAT THE ½" OPENINGS ARE PERPENDICULAR TO THE PATH OF PEDESTRIAN TRAVEL.
2. THE PEDESTRIAN GRATE AND FRAME SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M 105, CLASS 35B, & AASHTO M 306.
3. THE GRATE AND FRAME SHALL NOT BE PAINTED.
4. THE GRATE AND FRAME SHALL BE INSTALLED IN THE DROP INLET IN THE ASSEMBLED POSITION.
5. THE APPROXIMATE WEIGHT OF THE GRATE AND FRAME SHALL BE 211 LBS.
6. THE MINIMUM WATERWAY OPENING SHALL BE 122 SQ. IN.

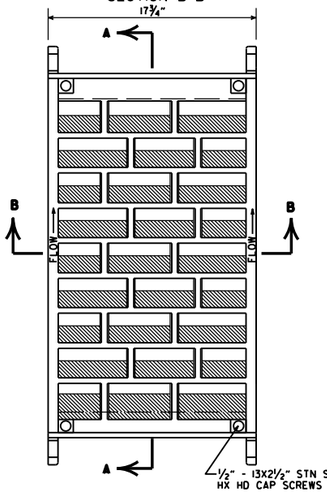
DETAILS OF PEDESTRIAN GRATE AND FRAME

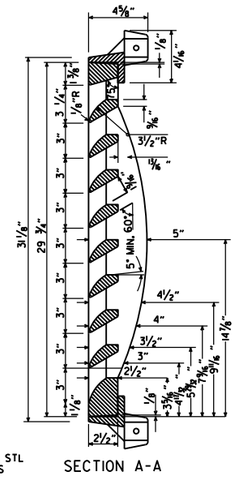


SECTION B-B



SECTION THRU FRAME



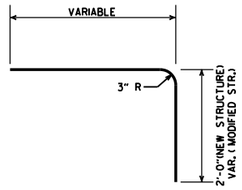


SECTION A-A

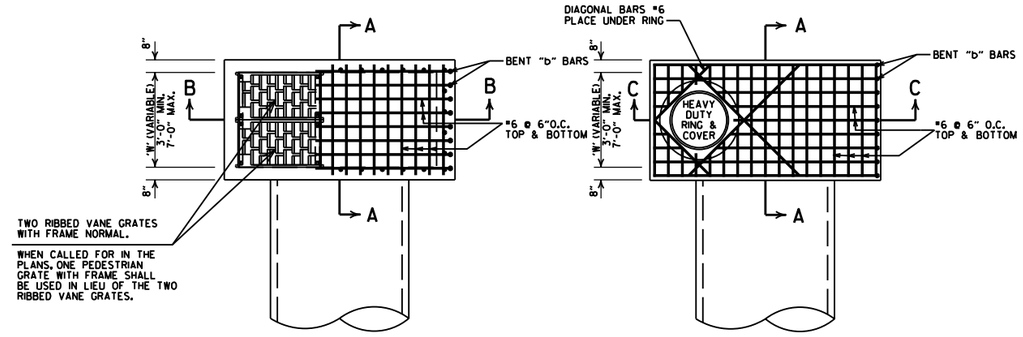
DETAILS OF RIBBED VANE GRATE AND FRAME

GENERAL NOTES (RIBBED VANE GRATE & FRAME)

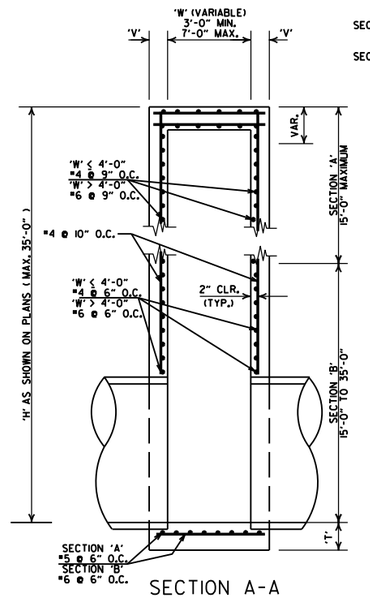
1. RIBBED VANE GRATE AND FRAME SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M 105, CLASS 35B, & AASHTO M 306.
2. GRATE AND FRAME SHALL NOT BE PAINTED.
3. GRATE AND FRAME SHALL BE INSTALLED IN DROP INLET IN ASSEMBLED POSITION.
4. APPROXIMATE WEIGHT OF GRATE SHALL BE 170 LBS.



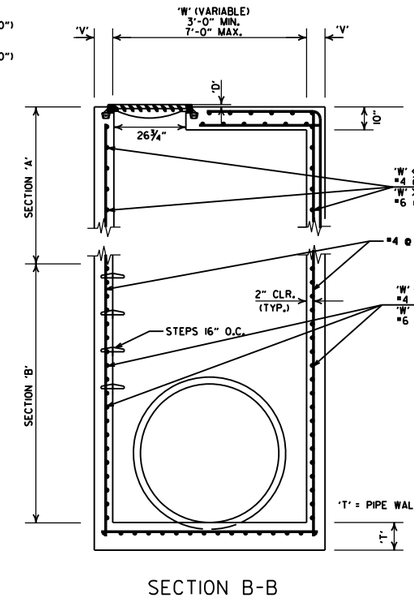
DETAIL OF BENT "b" BAR



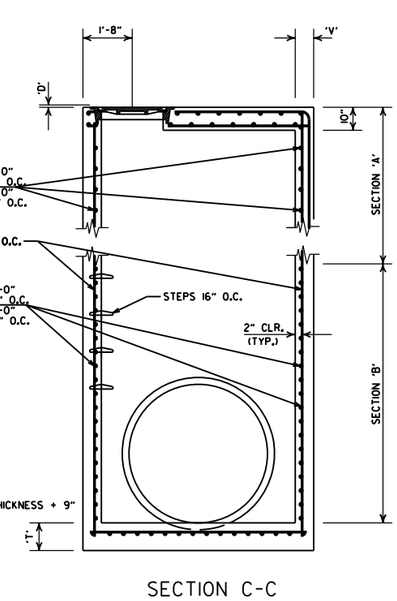
SECTION 'A'
'V' = 8"
SECTION 'B' (W≤4'-0")
'V' = 8"
SECTION 'B' (W>4'-0")
'V' = 10"



SECTION A-A



SECTION B-B



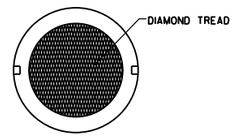
SECTION C-C

DETAILS OF DROP INLET (TYPE ST)

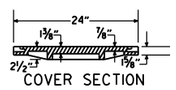
DETAILS OF JUNCTION BOX (TYPE ST)

GENERAL NOTES (TYPE ST DROP INLET & JUNCTION BOX)

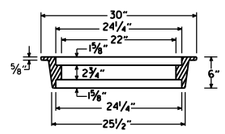
1. THE 'D' DIMENSION SHALL MATCH THE FINAL LIFT OF ACHM SURFACE COURSE SHOWN IN THE PLANS WHEN ASPHALT PAVING SURROUNDS THE GRATE OR RING COVER, AND SHALL BE 0" AT OTHER INSTALLATIONS.
2. THE STEPS SHALL BE OMITTED WHERE 'H' IS LESS THAN 4'-0".
3. ALL EXPOSED CORNERS ARE TO HAVE A ¾" CHAMFER.



COVER FACE



COVER SECTION



RING SECTION

HEAVY DUTY RING & COVER

APPROXIMATE TOTAL WEIGHT = 333 LBS.

GENERAL NOTES (HEAVY DUTY RING & COVER):

1. 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 M 105, CLASS 35B, & AASHTO M 306.
2. HEAVY DUTY RING AND COVER SHALL NOT BE PAINTED.
3. HEAVY DUTY RING SHALL ALWAYS BE INSTALLED WITH FLANGE ON TOP.
4. 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.

DATE REVISED	DATE FILMED	DESCRIPTION
7-26-12		REMOVED NOTE 4, REVISED 'T', REVISED BOTTOM SLAB REBAR FOR SECTION 'A', SHOWED REBAR CLEARANCE IN SECTIONS
11-16-01		ADDED NOTE 4
1-12-00		REVISED HEAVY DUTY RING & COVER
5-13-99		ADDED PEDESTRIAN FRAME & GRATE
7-02-98		REMOVED NOTE 5, REV. DIMENSIONS, ADDED HEAVY DUTY RING & COVER ADDED AASHTO REF. REVISED GRATE
10-18-96		REVISED ASTM REF. TO AASHTO
10-1-92		REVISED & REISSUED
8-15-91	8-15-91	REVISED & REISSUED

ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DROP INLET & JUNCTION BOX (TYPE ST)

STANDARD DRAWING FPC-9S

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	31 9/16	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.

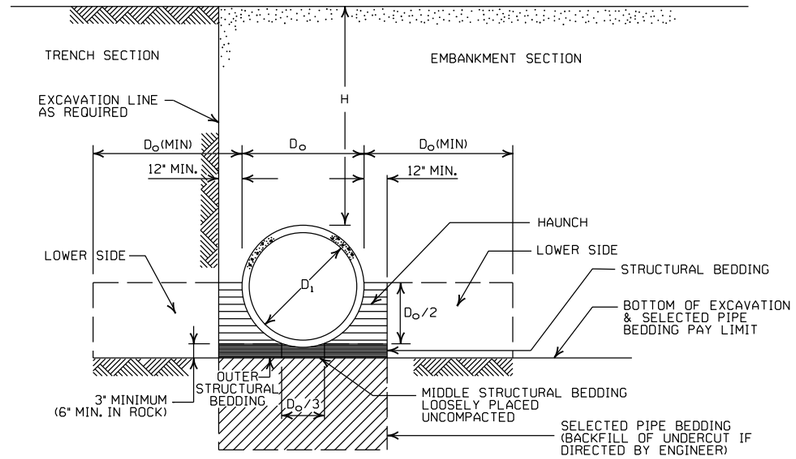
- LEGEND -

D_i = 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.

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.

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."

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	

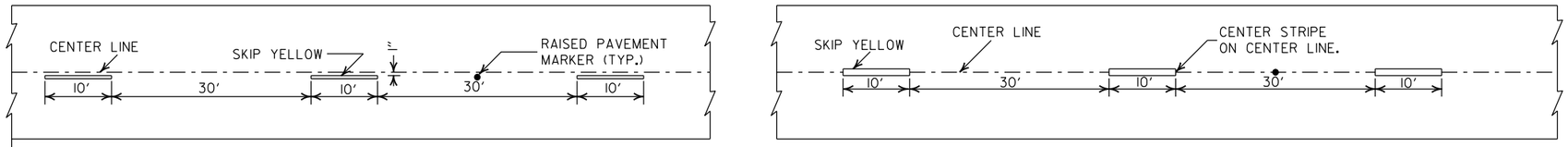
ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING

STANDARD DRAWING PCC-1

NOTES:

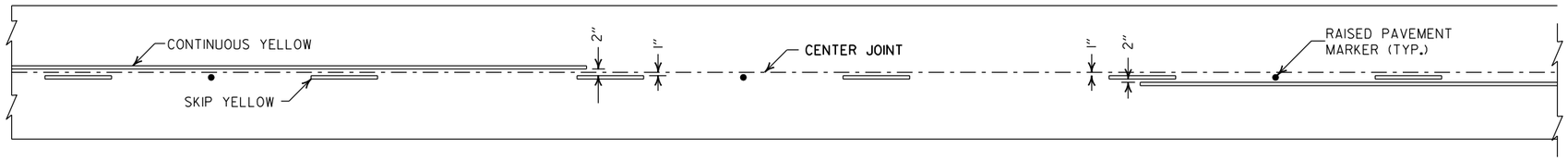
1. REFER TO THE STRIPING DETAILS FOR PAVEMENT MARKING LINE WIDTHS.
2. THIS DRAWING SHALL BE USED IN CONJUNCTION WITH THE LATEST REVISED ADDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
3. RAISED PAVEMENT MARKERS SHALL BE PLACED ON AN 80 FEET SPACING UNLESS OTHERWISE SHOWN IN THE PLANS.



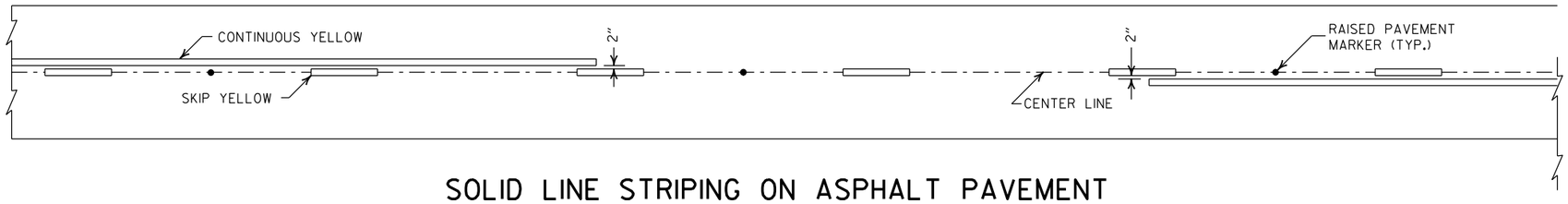
CONCRETE PAVEMENT

ASPHALT PAVEMENT

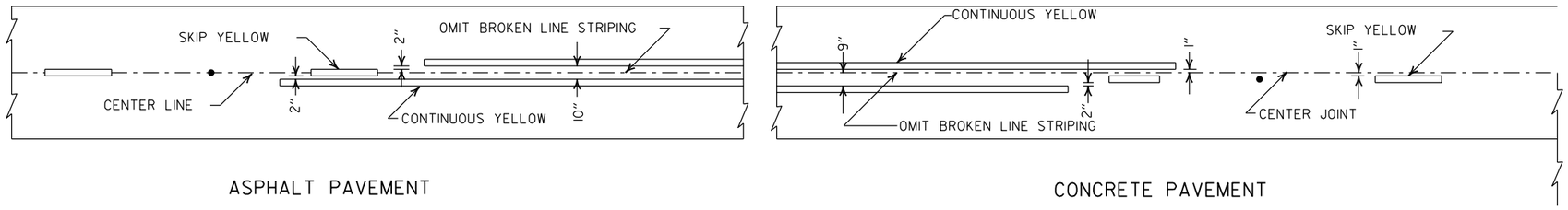
BROKEN LINE STRIPING



SOLID LINE STRIPING ON CONCRETE PAVEMENT



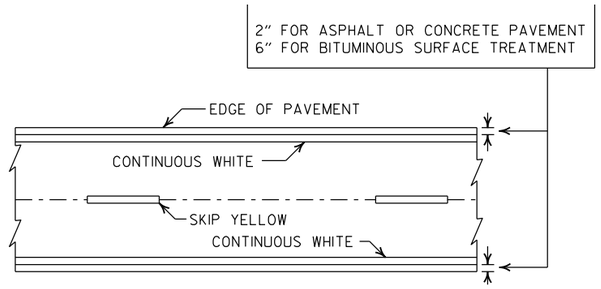
SOLID LINE STRIPING ON ASPHALT PAVEMENT



ASPHALT PAVEMENT

CONCRETE PAVEMENT

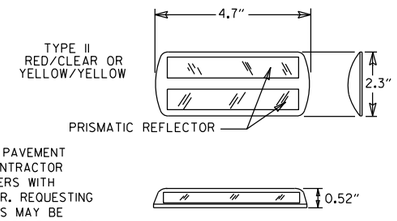
STRIPING AT ADJACENT NO PASSING LANES



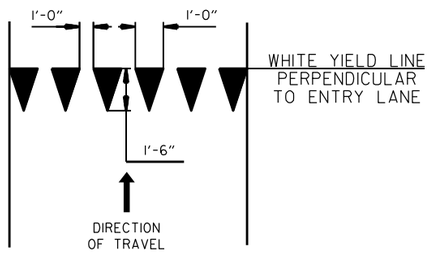
PAVEMENT EDGE LINE MARKING

NOTE:
THE RED LENS OF THE TYPE II R.P.M. SHALL FACE THE INCORRECT TRAFFIC MOVEMENT.

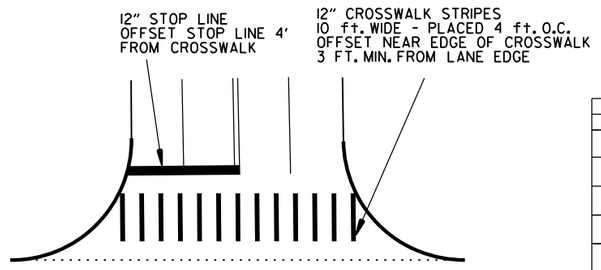
NOTE:
DIMENSIONS SHOWN FOR RAISED PAVEMENT MARKERS ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR MARKERS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR SIMILAR MARKERS MAY BE MADE BY REFERRING TO THE ARDOT QUALIFIED PRODUCTS LIST.



DETAIL OF STANDARD RAISED PAVEMENT MARKERS



YIELD LINE DETAIL



CROSSWALK AND STOP LINE DETAILS

DATE	REVISION	FILMED
2-27-20	REVISED STOP LINE DETAILS	
6-1-17	ADDED YIELD LINE DETAIL	
5-12-16	REVISED LINE WIDTHS, SPACING, & NOTES	
9-12-13	REVISED DETAIL OF STANDARD RAISED PAVEMENT MARKERS	
11-17-10	REVISED GENERAL NOTES & REMOVED PLOWABLE PVMT MRKRS	
11-18-04	REVISED NOTE 2 & GENERAL NOTES	
8-22-02	ADDED CROSSWALK & STOPBAR DTLS.	
7-02-98	ADDED DETAILS OF STD. RAISED PAV'T. MARKERS	
4-26-96	REV. NOTES 3&4; ADDED R.P.M.	
9-30-80	DRAWN	1-9-30-80

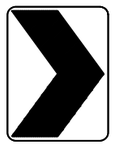
ARKANSAS STATE HIGHWAY COMMISSION

PAVEMENT MARKING DETAILS

STANDARD DRAWING PM-1

R1-1
30"X30"

W1-3
30"X30"
(LT. OR RT.)



W1-8
18"X24"

W2-5
30"X30"

W3-1
36"X36"

W5-1
36"X36"

M6-3
21"X15"

R1-2
36"X36"X36"

W1-4
30"X30"
(LT. or RT.)

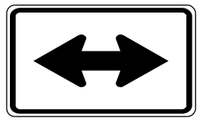
W2-1
30"X30"

S1-1
36"X36"

W3-2
36"X36"

County
Route Marker
M1-6
24"X24"

NOTE: REFLECTORIZED YELLOW LEGEND (COUNTY NAME, ROUTE LETTER & NUMBER) & BORDER ON A BLUE BACKGROUND.



M6-4
21"X15"

R2-1
24"X30"

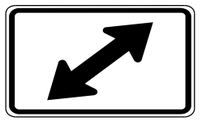
W1-5
30"X30"
(LT. or RT.)

W2-2
30"X30"

W5-2
36"X36"

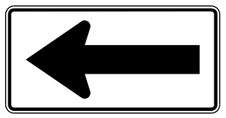
W8-3
36"X36"

R1-3P
18"X6"



M6-5
21"X15"

W1-1
30"X30"
(LT. or RT.)

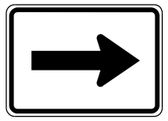


W1-6
48"X24"

W2-3
30"X30"
(LT. or RT.)

W5-3
36"X36"

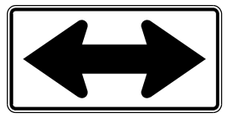
W13-1P
18"X18"



M6-1
21"X15"

NOTE: ALL M6 SIGNS TO BE MADE WITH REFLECTORIZED YELLOW ARROW & BORDER WITH BLUE BACKGROUND.

M6-6
21"X15"

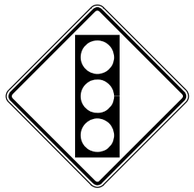


W1-7
48"X24"

W1-2
30"X30"
(LT. or RT.)

W2-4
30"X30"

W10-1
36" DIAMETER

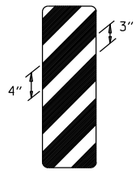


W3-3
36"X36"

M6-2
21"X15"

S4-3P
24"X8"

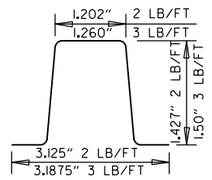
S4-2P
24"X10"



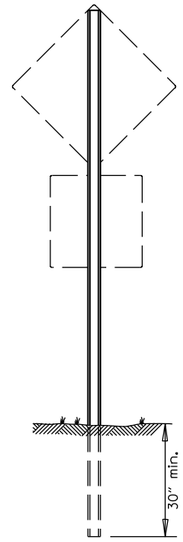
OM-3
12"X36"
(LT. or RT.)

MINIMUM DIMENSIONS SHOWN

SUPPORT SECTION

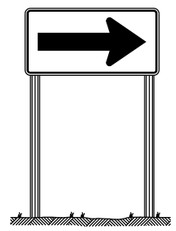


(U-CHANNEL)
STANDARD SUPPORT
ASSEMBLIES

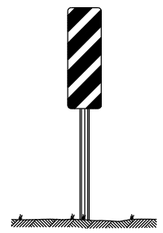


TYPE A

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

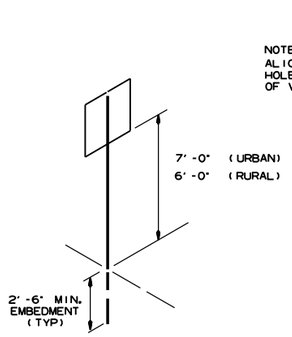
DATE	REVISION	DATE FILMED
9-12-13	DELETED JOB NO. BLOCK; REVISED R1-3 TO R1-3P	
4-17-08	REVISED SIGN DESIGNATION - W3-1 & W3-2	
4-10-03	REVISED W5-2, W8-3, OM-3; ADDED W1-8	
1-5-81	REDRAWN	960-1-15-81
9-15-78	ADDED W14-3	877-9-15-78
9-2-76	POST WT.	623-9-3-76
5-3-76	STEEL POST WT. FROM 2#-3#; ADDED S4-2 & 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

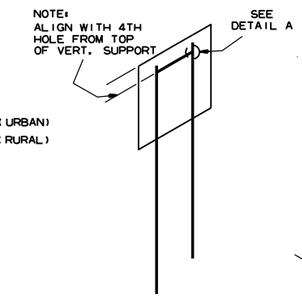
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD HIGHWAY SIGNS
AND SUPPORT ASSEMBLIES

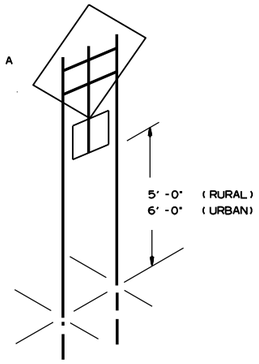
STANDARD DRAWING SHS-1



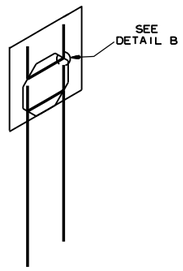
U-1



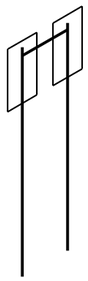
U-2



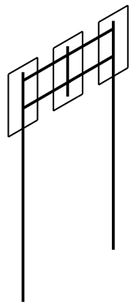
U-2 (A)



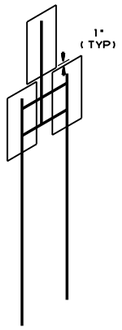
U-2 (B)



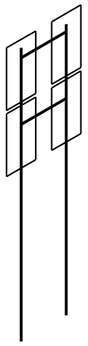
U-2 (1)



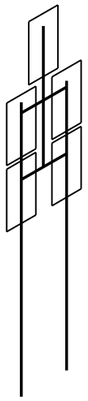
U-2 (2)



U-2 (3)



U-2 (4)



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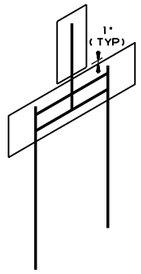
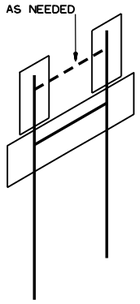
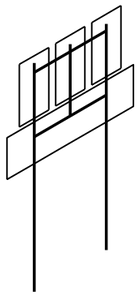


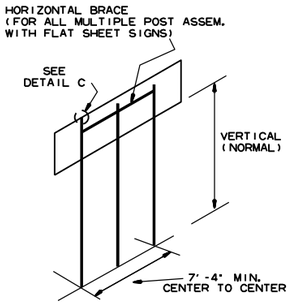
U-2 (6)



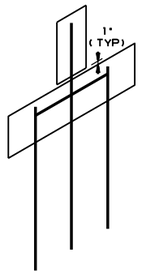
U-2 (7)



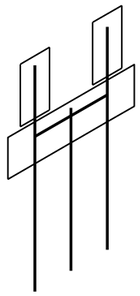
U-2 (8)



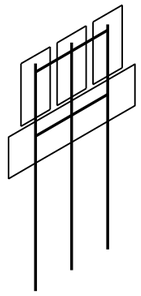
U-3



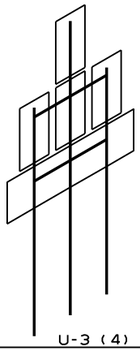
U-3 (1)



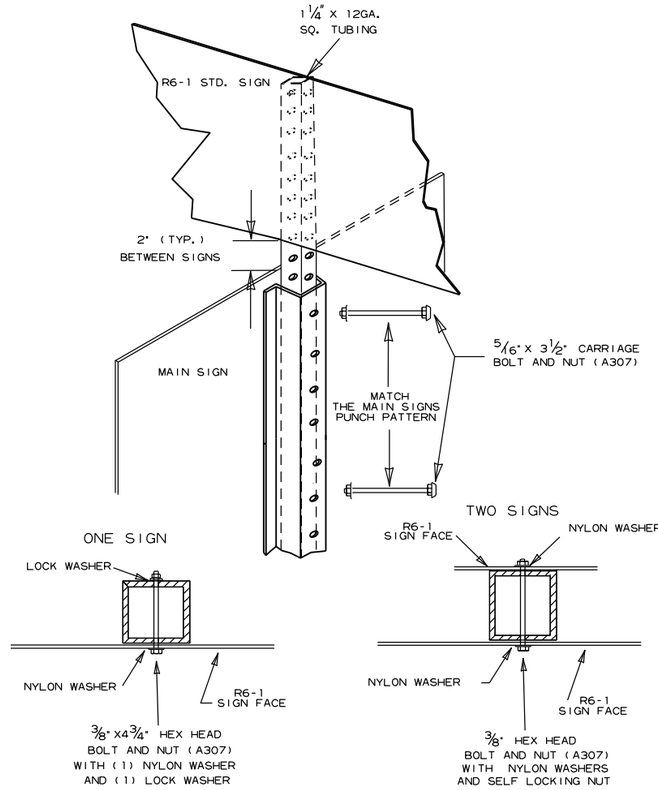
U-3 (2)



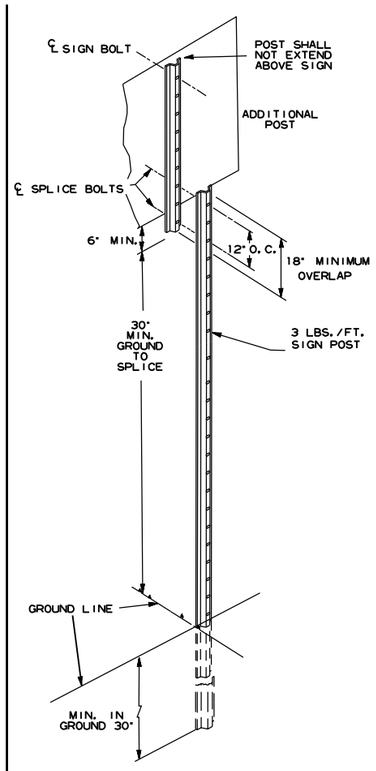
U-3 (3)



U-3 (4)



DETAIL E
R6-1 EXTENSION
FOR U-CHANNEL POST



DETAIL F
DETAIL OF SPLICES

NOTES:

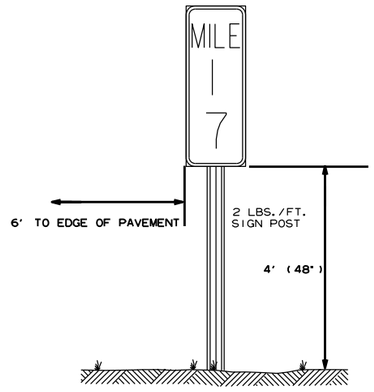
SIGNS AT LEAST 8' IN LENGTH MAY BE INSTALLED ON THREE 3 LB. POST. IN NO CASE SHALL THERE BE MORE THAN TWO 3 LB. POSTS WITHIN A 7' PATH.

SPLICES NECESSARY TO ATTAIN PROPER MOUNTING HEIGHT SHALL BE AS SHOWN IN DETAIL (F).

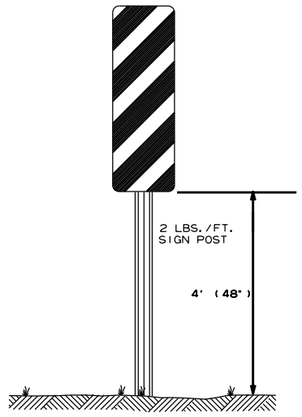
NORMAL INSTALLATIONS WILL REQUIRE 5/16" DIA. CARRIAGE BOLTS TO MOUNT SIGNS TO POST AND TO ASSEMBLE THE VARIOUS POST SUPPORTS.

ALL SIGN POSTS SHALL BE PLUMB.

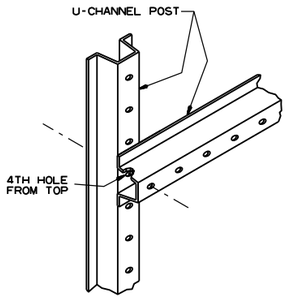
THE POST FOR "TYPE U" SUPPORTS SHALL BE HOT DIP GALVANIZED.



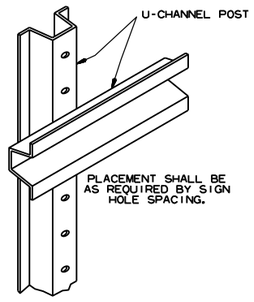
TYPICAL MILE MARKER
INSTALLATION



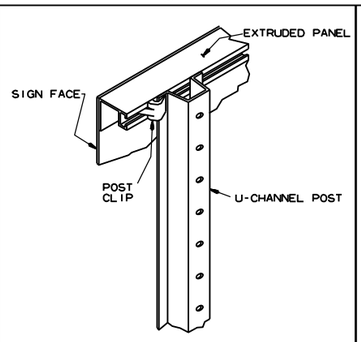
TYPICAL OM-3 INSTALLATION
AT EDGE OF OBSTRUCTION



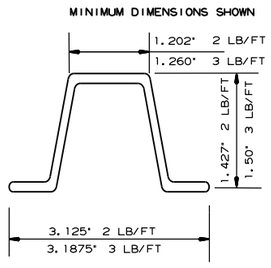
DETAIL A
SHOWING HORIZONTAL BRACE



DETAIL B
SHOWING BACK-TO-BACK
INSTALLATION



DETAIL C
SHOWING GUIDE SIGN MOUNTING
WITH EXTRUDED PANELS



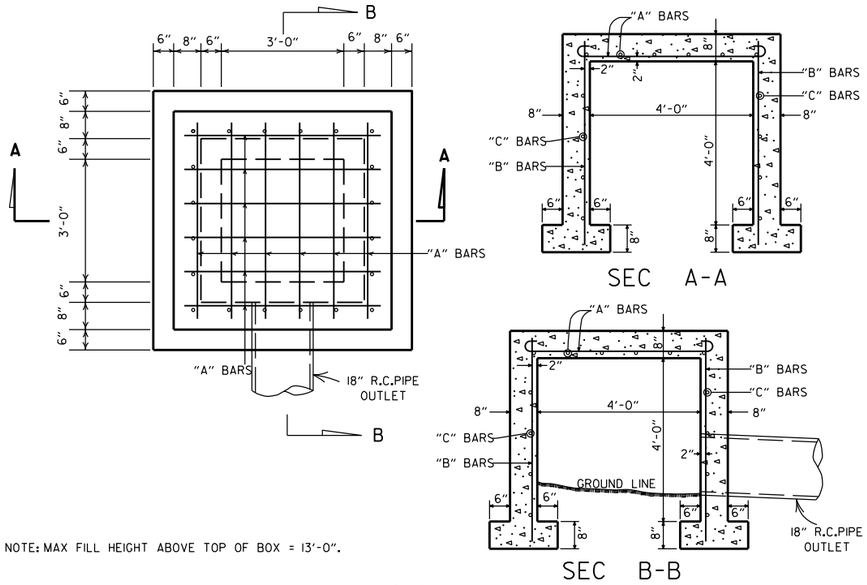
DETAIL C
U-CHANNEL POST

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

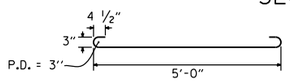
ARKANSAS STATE HIGHWAY COMMISSION

U-CHANNEL POST ASSEMBLIES

STANDARD DRAWING SHS-2



NOTE: MAX FILL HEIGHT ABOVE TOP OF BOX = 13'-0".



"A" BARS

STEEL SCHEDULE

BARS	NUMBER	LENGTH	SPACING
"A"	12	6'-0"	10"
"B"	20	5'-0"	10 1/2"
"C"	16	5'-0"	12"

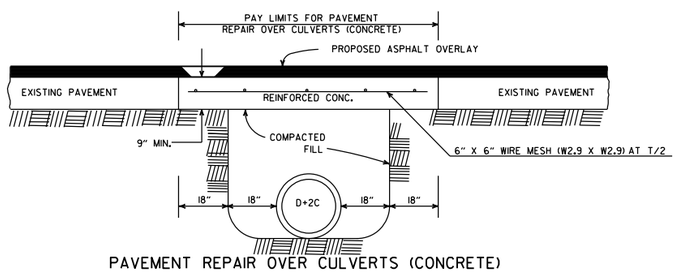
ALL STEEL TO BE #4 BARS

QUANTITIES

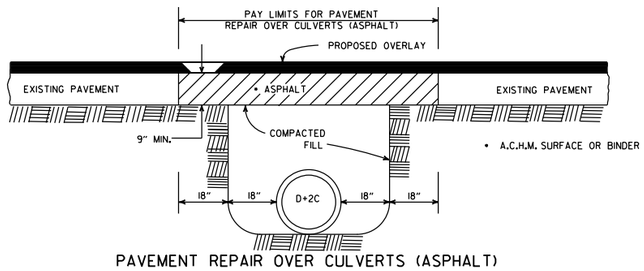
CONCRETE 3.31 CU. YDS.
REINFORCING STEEL 168 LB.

GENERAL NOTE:
THE PAY ITEMS FOR REINFORCED CONCRETE SPRING BOXES SHALL BE FOR THE QUANTITIES OF CONCRETE OF THE CLASS SPECIFIED, REINFORCING STEEL, EXCAVATION FOR STRUCTURES AND 18" R.C. PIPE CULVERT.

REINFORCED CONCRETE SPRING BOX



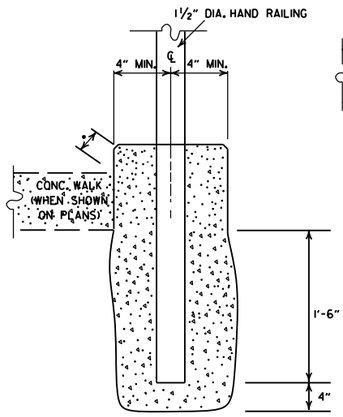
PAVEMENT REPAIR OVER CULVERTS (CONCRETE)



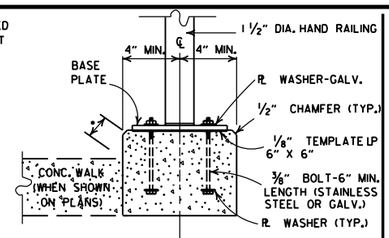
PAVEMENT REPAIR OVER CULVERTS (ASPHALT)

DETAIL SHOWING REPAIR OF EXISTING PAVEMENT AT CULVERT INSTALLATIONS

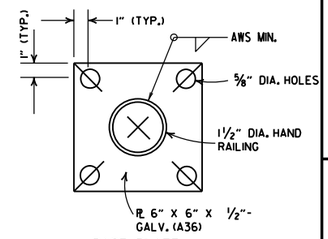
* A 2" MIN. HIGH CURB IS REQUIRED WHEN CONCRETE WALK IS ADJACENT TO THE HAND RAILING. PAYMENT FOR CURB SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR CONCRETE WALKS.



DETAIL OF HAND RAILING SET IN CONCRETE

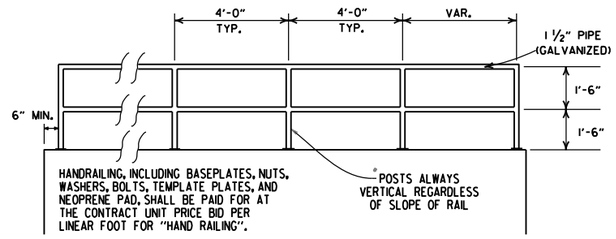


POST CONNECTION TO WALL

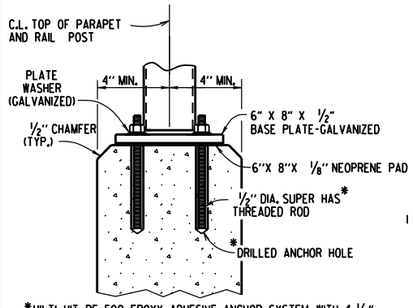


BASE PLATE

POST CONNECTION DETAILS

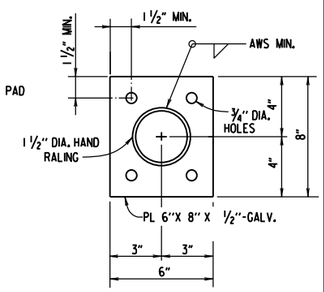


HAND RAILING SHALL CONFORM TO SECTION 633.



*HILTI HIT RE 500 EPOXY ADHESIVE ANCHOR SYSTEM WITH 4 1/2" EMBEDMENT OR APPROVED EQUAL.
THE ADHESIVE ANCHOR SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

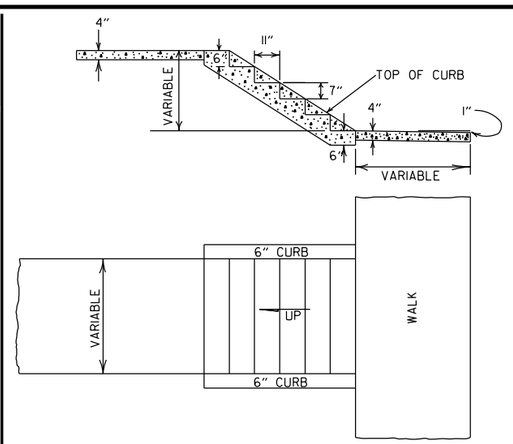
POST CONNECTION TO WALL



BASE PLATE

DETAILS OF ALTERNATE POST ANCHOR SYSTEM
(EPOXY ADHESIVE ANCHORS)

HAND RAILING DETAILS



GENERAL NOTES

1. RISE AND TREAD DIMENSIONS OF STEPS MAY BE VARIED AS DIRECTED BY THE ENGINEER, HOWEVER, TREAD WIDTHS SHALL BE 11" MIN. ALL STEPS IN A FLIGHT SHALL HAVE CONSISTENT TREAD & RISER DIMENSIONS.
2. 1" TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE WALKS AT 45' INTERVALS.

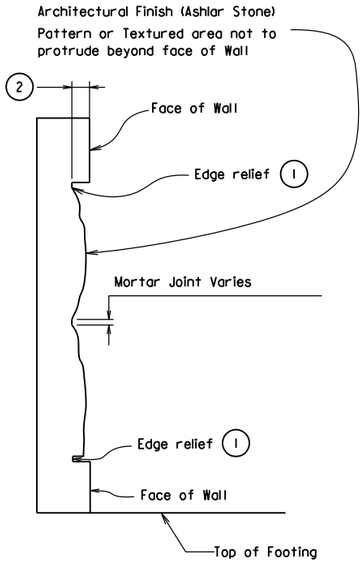
DETAILS OF CONCRETE STEPS & WALKS

DATE	REVISION	DATE FILMED
10-25-18	REVISED DETAIL SHOWING REPAIR OF EXISTING PAVEMENT AT CULVERT INSTALLATIONS	
9-12-13	REVISED REINFORCED CONCRETE SPRING BOX	
7-26-12	REMOVED RETAINING WALL DETAILS & REVISED HAND RAILING DETAILS	
4-17-08	REV. JOINT & FOOTING STEP DETAILS	
11-29-07	REVISED RETAINING WALL DRAINAGE	
5-25-06	REVISED PVMT REPAIR OVER CULVERTS (CONC); REVISED REINFORCED CONC SPRING BOX	
10-9-03	REVISED PIPE RAILING DETAILS TO HAND RAILING DETAILS	
4-10-03	REVISED RETAINING WALL DRAWING	
8-22-02	ADDED HAND RAILING DETAIL	
11-16-01	REVISED PVMT REPAIR OVER CULVERTS (CONC); CORRECTED SPELLING IN GENERAL NOTES	
11-18-98	ADDED GENERAL NOTES TO CONCRETE STEPS & WALKS	
7-02-98	ENLARGED PIPE	
4-03-97	ADDED NOTE TO STEEL BAR SCHED.	
10-18-96	CORRECTED SPELLING	
4-26-96	ADD WEEP HOLE;REV. JOINT SPACING IN RET. WALL	
6-2-94	CHANGED CONST. TO CONTRACTION JOINT	
10-1-92	CHANGED MESH FABRIC TO WIRE MESH	10-1-92
8-15-91	DELETED HDWL MODIFICATION DETAIL	8-15-91
11-8-90	DELETED COLD MIX FROM CULV'T. REPAIR	11-8-90
11-30-89	REV. RETAINING WALL STEEL SCHEDULE	11-30-89
11-17-88	V. BARS BEHIND ARROW	665-11-17-88
7-15-88	REV. PAVEMENT REPAIR ADDED HDWL. MODS. DEL. PIPE UNDERDRAINS	649-7-15-88
11-1-84	REV. TRENCH FOR PIPE UNDERDRAIN	510-11-1-84
1-4-83	ELIMINATED CONC. CLASS & ADDED CHAMFER NOTE	682-1-4-83
3-2-81	SPELLING OF "UNDERDRAIN"	721-3-2-81
4-20-79	REV. UNDERDRAIN DET& PAVEMENT REPAIR	674-4-20-79
2-2-76	12"MIN. GRAN. MAT'L. OVER PIPE	919-2-2-76
4-10-75	REM. SPECS. FOR GRAN. MAT'L.	568-4-10-75-853
5-22-74	GRANULAR MAT'L. TO BE SB-3	567-5-22-74-740
10-2-72	REVISED AND REDRAWN	564-10-16-72

ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF SPECIAL ITEMS

STANDARD DRAWING SI-1

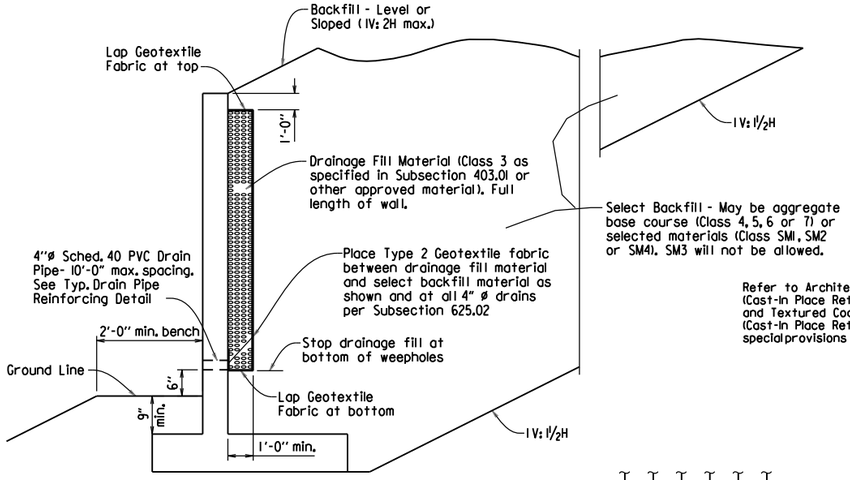


ARCHITECTURAL FINISH DETAILS

N.T.S.

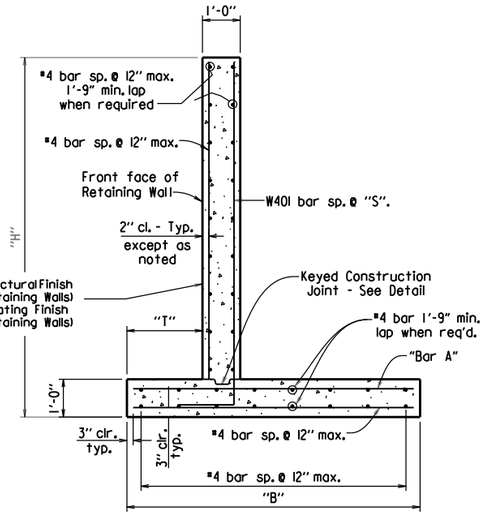
(1) Provide edge relief around perimeter of Texture. Edge relief dimensions shall match manufacturers edge distance.

(2) Depth of Ashlar Stone pattern approx. 1 5/8". See SP "Architectural Finish".



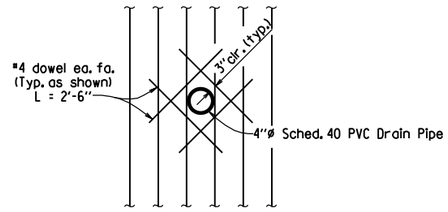
TYPICAL DRAINAGE & BACKFILL DETAILS

N.T.S



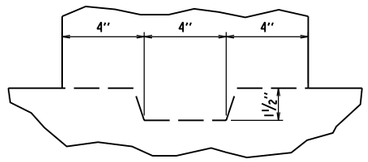
TYPICAL SECTION

N.T.S



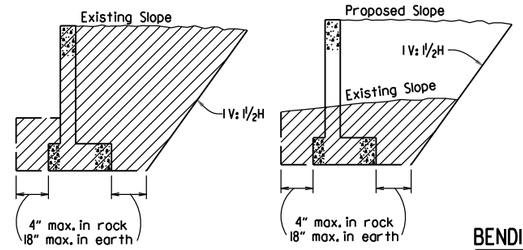
TYPICAL DRAIN PIPE REINFORCING DETAIL

N.T.S



KEYED CONSTRUCTION JOINT DETAIL

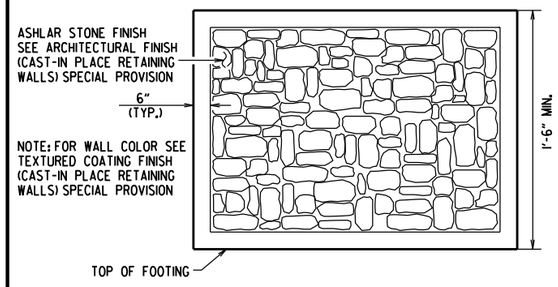
N.T.S



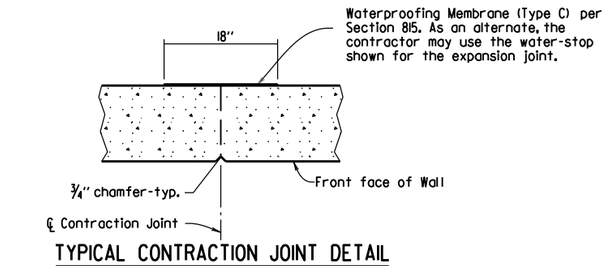
NOTE: Hatched area denotes maximum limits of pay excavation.

DETAILS OF EXCAVATION

N.T.S



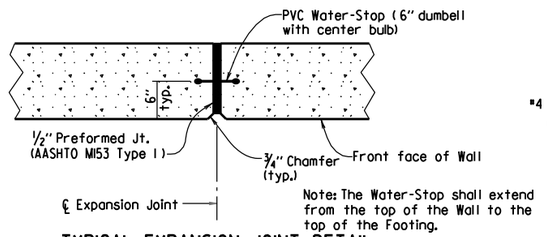
ASHLAR STONE FINISH DETAIL



TYPICAL CONTRACTION JOINT DETAIL

N.T.S.

Note: 20'-0" Max. Spacing between Contraction Joints. Horizontal reinforcement shall be continuous through Contraction joints.

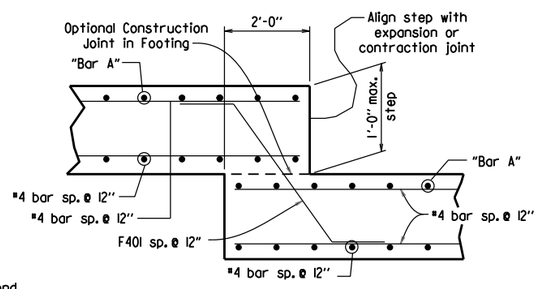


Note: The Water-Stop shall extend from the top of the Wall to the top of the Footing.

TYPICAL EXPANSION JOINT DETAIL

N.T.S.

Note: 60'-0" Max. Spacing between Expansion Joints. Horizontal reinforcing shall stop 2" from ℄ Expansion Joint.

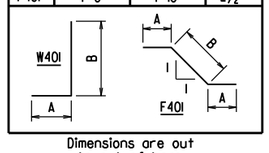


FOOTING STEP DETAIL

N.T.S.

BENDING DIAGRAMS

MARK	A	B	P.D.
W401	8"	"H" - 6"	3"
F401	1'-6"	1'-10"	2½"



Dimensions are out to out of bars.

GENERAL NOTES

CONSTRUCTION SPECIFICATIONS: 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.

DESIGN SPECIFICATIONS: AASHTO LRFD Bridge Design Specifications, Sixth Edition (2012).

LIVE LOAD: Live Load Surcharge is not included in the design of these walls. Vehicular Live Load shall not be allowed within a distance equal to one-half the height of the wall.

CONCRETE: Concrete shall be poured in the dry and all exposed corners to be chamfered ½". All concrete shall be Class S with a minimum 28 day compressive strength f'c = 3,500 psi. A Class 2 Surface finish shall be used on all surfaces of the concrete unless otherwise noted. Refer to Architectural Finish (Cast-in Place Retaining Walls) and Textured Coating Finish (Cast-in Place Retaining Walls) special provisions.

REINFORCING STEEL: All reinforcing steel shall conform to AASHTO M31 or M53, Grade 60.

Foundations for footings shall be prepared in accordance with subsection 801.04. Backfill for retaining walls shall be in accordance with subsection 801.08.

Waterproof Membrane (Type C), waterstops, preformed joints, weep holes & geotextile fabric shall not be paid for directly, but shall be considered subsidiary to Class S Concrete.

Drainage fill material (Class 3) and select backfill shall be measured and paid for as Compacted Embankment.

These details are not intended for use along streams or ditches without consideration for scour.

TABLE OF RETAINING WALL VARIABLES (SLOPED BACKFILL) (1V: 2H MAX.)

"H"	"T"	"B"	"S"	"Bar A" Size @ Spacing
3'-0"	9"	2'-6"	12"	#4 @ 12"
4'-0"	9"	3'-6"	12"	#4 @ 12"
5'-0"	9"	4'-6"	12"	#4 @ 12"
6'-0"	9"	5'-6"	12"	#4 @ 6"
7'-0"	9"	6'-6"	12"	#5 @ 6½"
8'-0"	1'-6"	8'-0"	7½"	#6 @ 6"
9'-0"	1'-11"	9'-6"	5"	#8 @ 6"

TABLE OF RETAINING WALL VARIABLES (LEVEL BACKFILL)

"H"	"T"	"B"	"S"	"Bar A" Size @ Spacing
3'-0"	9"	2'-6"	12"	#4 @ 12"
4'-0"	9"	3'-6"	12"	#4 @ 12"
5'-0"	9"	4'-0"	12"	#4 @ 12"
6'-0"	9"	4'-6"	12"	#4 @ 12"
7'-0"	9"	5'-6"	12"	#4 @ 10"
8'-0"	9"	6'-0"	12"	#5 @ 10"
9'-0"	1'-0"	7'-0"	12"	#5 @ 6½"

NOTES:

Wall pattern shall be applied to the exposed surfaces of wall in accordance with SP "Architectural Finish (Cast-in Place Retaining Walls)" and as shown in the plans. Care shall be taken with form liner handling and installation to ensure aesthetic quality of the wall texturing is maintained. Where form liner panels require modification to conform to the location, dimensions and lines shown in the plans, the Contractor shall provide edge relief matching that of the unaltered form liner. Payment for wall texturing shall be in accordance with SP "Architectural Finish (Cast-in Place Retaining Walls)".

No adjustments will be made in concrete volume due to the use of "Architectural Finish". Class "S" Concrete shall be measured in accordance with Subsection 802.24(a). Care shall be taken in placing concrete to avoid segregation and to eliminate flow lines.

Class 3 Textured Coating Finish shall be applied to wall surfaces as specified in SP "Textured Coating Finish (Cast-in Place Retaining Walls)" and in accordance with Subsection 802.19(b)(3).

SEISMIC ZONE: These walls have been designed for the following site adjusted peak ground accelerations (A_S):
Level Backfill - $A_S \leq .40g$
Sloped Backfill (1V: 2H max.) - $A_S \leq .30g$

DATE	REVISION	DATE FILMED
5-14-20	ADDED ASHLAR STONE FINISH DETIAL AND NOTES. REVISED TYP. SECTION AND GEN. NOTES.	
5-12-16	REVISED SLOPES FOR SELECT BACKFILL	
2-27-14	REVISED GENERAL NOTES	
7-26-12	DRAWING ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

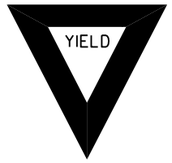
REINFORCED CONCRETE RETAINING WALL (WITHOUT LIVE LOAD SURCHARGE)

STANDARD DRAWING SI - 2

R1-1

STANDARD 30"X30"
EXPRESSWAY 36"X36"
SPECIAL 48"X48"

R1-2



STD. 36"X36"X36"
EXPWY. 48"X48"X48"
FWY. 60"X60"X60"

R2-1

STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

W3-5

STD. 36"X36"
EXPWY. 48"X48"
FWY. 48"X48"

W3-5a

STD. 36"X36"
EXPWY. 48"X48"
FWY. 48"X48"

R4-1

STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

R4-2

STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

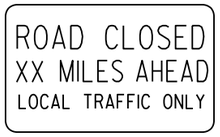
R5-1

STD. 30"X30"
EXPWY. 36"X36"
SPECIAL 48"X48"

R11-2

48"X30"

R11-3A



60"X30"

R11-4

60"X30"

W21-5a

STD. 36"X36"
FWY. 48"X48"

W1-1

STD. 36"X36"
FWY. 48"X48"

W1-2

STD. 36"X36"
FWY. 48"X48"

W1-3

STD. 48"X48"

W1-4

STD. 48"X48"

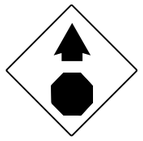
W1-6

STD. 48"X24"
SPECIAL 60"X30"

W1-8

STD. 18"X24"
SPECIAL 24"X30"
EXPWY. 30"X36"
FWY. 36"X48"

W3-1

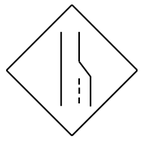


STD. 36"X36"
SPECIAL 48"X48"

W3-2

STD. 36"X36"
SPECIAL 48"X48"

W4-2



STD. 36"X36"
FWY. 48"X48"

W5-1

STD. 36"X36"
SPECIAL 48"X48"

W6-3

EXPWY. 36"X36"
SPECIAL 48"X48"

W8-7

EXPWY. 36"X36"
FWY. 48"X48"

W9-2

STD. 36"X36"
FWY. 48"X48"

W13-1

STD. 24"X24"

W20-1

STD. 48"X48"

W20-2

STD. 48"X48"

W20-3

STD. 48"X48"

W20-4

STD. 48"X48"

W20-5

STD. 48"X48"

W20-7a

STD. 36"X36"
FWY. 48"X48"

W21-2

STD. 30"X30"
SPECIAL 36"X36"

W21-5

STD. 30"X30"
SPECIAL 36"X36"

W24-1

STD. 36"X36"

W1-4b

STD. 48"X48"

R56-1

STD. 18"X18"

W8-11

STD. 36"X36"
FWY. 48"X48"

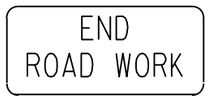
W8-9

STD. 36"X36"
FWY. 48"X48"

G20-1

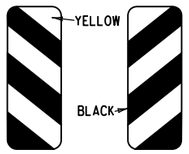
60"X24"

G20-2



48"X24"

OM-3L OM-3R



12"X36"

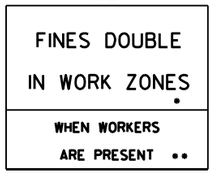
M4-9

STD. 30"X24"
SPECIAL 48"X36"
SPECIAL 60"X48"

M4-10

48"X18"

R55-1



36"X60"

• USE 6" C LETTERS
•• USE 4" D LETTERS

ADVANCE DISTANCES
(XXXX)

500 FT	½ MILE
1000 FT	¾ MILE
1500 FT	1 MILE AHEAD

GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES USED ON ROAD CONSTRUCTION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND TO THE STANDARD HIGHWAY SIGNS, LATEST EDITION, OR AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.

2. TRAFFIC CONTROL DEVICES SHALL BE SET UP JUST BEFORE THE START OF CONSTRUCTION OPERATIONS AND SHALL BE PROPERLY MAINTAINED DURING THE TIME SUCH CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS NEEDED AND REMOVED THEREAFTER.

3. EXISTING SIGNS AND CONSTRUCTION SIGNS SHALL BE KEPT IN PROPER POSITION, AND BE CLEAN AND LEGIBLE AT ALL TIMES. SIGNS THAT DO NOT APPLY TO EXISTING CONDITIONS SHALL BE REMOVED. SIGNS THAT ARE DAMAGED, DEFACED, OR THAT ACCUMULATE DIRT DURING CONSTRUCTION SHALL BE CLEANED, REPAIRED, OR REPLACED.

• 4. SIGNS ARE USUALLY MOUNTED ON A SINGLE POST, ALTHOUGH THOSE WIDER THAN 36" OR LARGER THAN 10 SQ. FT. SHALL BE MOUNTED ON TWO POSTS OR ABOVE A TYPE III BARRICADE.

• 5. SIGN POSTS DIRECT BURIED IN SOIL SHALL BE 2 LB. MINIMUM CHANNEL POST OR 4"x4" WOOD POSTS. CHANNEL POSTS SHALL BE PAINTED GREEN. WOOD POSTS SHALL BE PAINTED WHITE. ALL POSTS SHALL BE NEATLY CONSTRUCTED, AND SHALL BE REPLUMBED, CLEANED, OR REPAIRED AS NEEDED FOR THE DURATION OF THE JOB. THERE SHALL NOT BE MORE THAN 2 POSTS IN A 7' PATH FOR WOOD OR CHANNEL POSTS. ANY CHANNEL POST SPLICE SHALL BE IN ACCORDANCE WITH STANDARD DRAWING TC-3.

6. POST MOUNTED SIGNS IN RURAL AREAS SHALL BE CONSTRUCTED WITH THE NEAR EDGE OF THE SIGN FROM 6 TO 12 FEET FROM THE PAVEMENT EDGE. SIGNS IN URBAN AREAS AND BARRICADE MOUNTED SIGNS SHALL BE MOUNTED A MINIMUM OF 2 FEET FROM THE PAVEMENT EDGE.

7. ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN URBAN AREAS SHALL BE MOUNTED A MINIMUM DISTANCE OF 7' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE. ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN RURAL AREAS SHALL BE MOUNTED A MINIMUM DISTANCE OF 7' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE, EXCEPT A MINIMUM OF 6' SHALL BE USED WHEN MOUNTING AN ADVISORY SIGN BELOW A WARNING SIGN. TEMPORARY SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR INTERMEDIATE TERM STATIONARY WORK CONDITIONS. THE SIGNS MINIMUM MOUNTING HEIGHT SHALL BE 5'. RETROREFLECTIVE DEVICES SHALL BE USED. TEMPORARY SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR SHORT-TERM, SHORT DURATION, AND MOBILE CONDITIONS. THEY SHALL BE NO LESS THAN ONE (1) FOOT ABOVE THE TRAVELED WAY. LONG-TERM STATIONARY SIGNS SHALL BE DIRECT BURIED IN SOIL, UNLESS CONDITIONS NECESSITATE THE USE OF PORTABLE SIGNS, OR AS APPROVED BY THE ENGINEER. CONCRETE PADS, CONCRETE OR ROCK BALLAST, OR OTHER SOLID MATERIALS SHALL NOT BE UTILIZED WITH PORTABLE SIGN SUPPORTS.

8. FLAGGERS SHALL USE REFLECTORIZED STOP-SLOW PADDLES. FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS.

9. MOST OF THE SIGNS SHOWN ARE ORIENTED TO THE RIGHT. HOWEVER, THIS DOES NOT PRECLUDE THE USE OF MIRROR IMAGES OF THESE SIGNS WHERE THE REVERSE ORIENTATION MIGHT BETTER CONVEY TO MOTORISTS THE PROPER DIRECTION OF MOVEMENT.

10. R55-1 SIGNS SHALL BE PLACED AT LEAST 1500' BUT NOT MORE THAN 1 MILE IN ADVANCE OF THE WORK ZONE. IF A SPEED LIMIT REDUCTION IS IN EFFECT, THE SIGN SHALL BE PLACED A MINIMUM OF 500' IN ADVANCE OF THE "REDUCED SPEED AHEAD" SIGN.

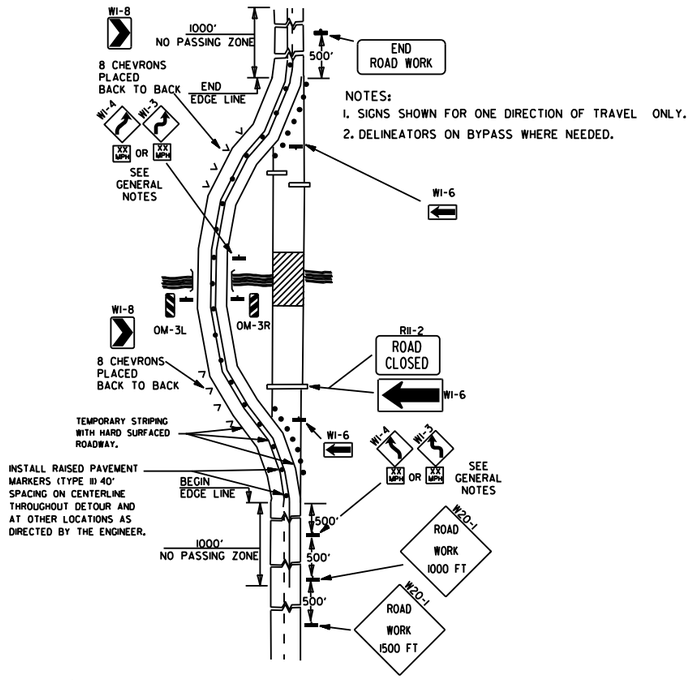
• NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM THE REQUIREMENTS SHOWN IN NOTES 4 & 5, BUT MEET THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED. COMPLIANCE WITH THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) IS REQUIRED FOR ALL PROJECTS.

DATE	REVISION	FILMED
11-07-19	REVISED FOR MASH	
4-13-17	DELETED RSP-1 & ADDED W21-5a	
9-2-15	REVISED REDUCED SPEED LIMIT AHEAD SIGNS REVISED ROAD WORK NEXT XX MILES	
12-15-11	REVISED W24-1	
11-17-10	DELETED W8-9a & ADDED W8-9	
10-15-09	ADDED REFERENCE TO MASH & ADDED SIGN W24-1	
4-17-08	REVISED SIGN DESIGNATIONS	
11-18-04	REVISED NOTES	
10-9-03	REVISED NOTE 1	
11-16-01	REVISED NOTE 7	
9-28-00	REVISED NOTE	
11-18-98	ADDED NOTE	
6-26-97	REVISED NOTE 5	
4-03-97	REVISED NOTE 5	
10-18-96	ADDED CONTROLLED ACCESS HWY. SIGN & TO NOTE 7	
10-12-95	ADDED R55-1	
6-8-95	REVISED TO CORRECT SIGN ILLUSTRATIONS	6-8-95
2-2-95	REVISED PER PART VI, MUTCD SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	

ARKANSAS STATE HIGHWAY COMMISSION

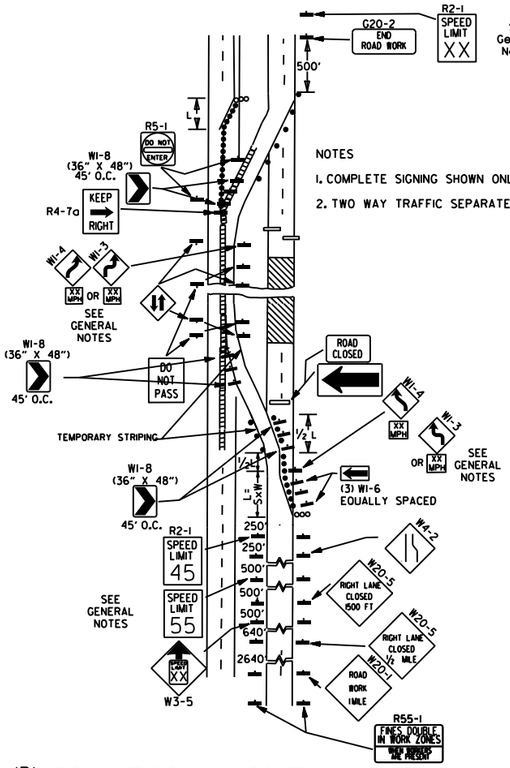
STANDARD TRAFFIC CONTROLS
FOR HIGHWAY CONSTRUCTION

STANDARD DRAWING TC-1



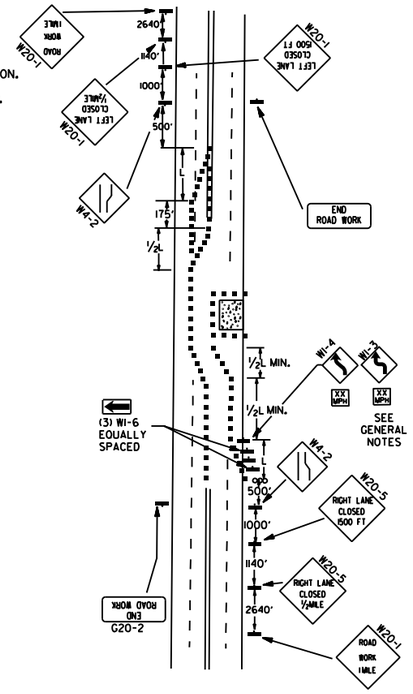
NOTES:
1. SIGNS SHOWN FOR ONE DIRECTION OF TRAVEL ONLY.
2. DELINEATORS ON BYPASS WHERE NEEDED.

(A) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON A 2-LANE HIGHWAY WHERE THE ENTIRE ROADWAY IS CLOSED AND A BYPASS DETOUR IS PROVIDED.

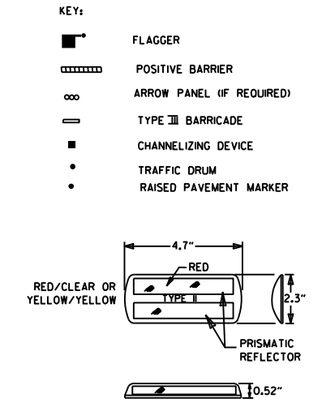


NOTES
1. COMPLETE SIGNING SHOWN ONLY IN CROSSOVER DIRECTION.
2. TWO WAY TRAFFIC SEPARATED WITH POSITIVE BARRIER.

(B) TYPICAL APPLICATION - 4-LANE DIVIDED ROADWAY WHERE ONE ROADWAY IS CLOSED.



(C) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.



TYPICAL ADVANCE WARNING SIGN PLACEMENT

TAPER FORMULAE:

$L = SXW$ FOR SPEEDS OF 45MPH OR MORE.

$L = \frac{WS^2}{60}$ FOR SPEEDS OF 40MPH OR LESS.

WHERE:

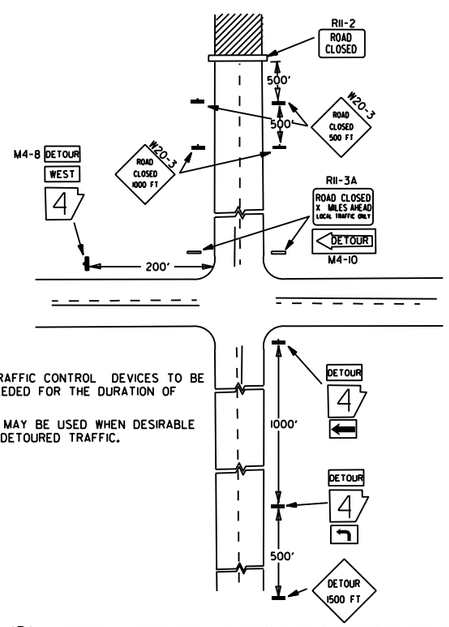
L= MINIMUM LENGTH OF TAPER.

S= NUMERICAL VALUE OF POSTED SPEED LIMIT PRIOR TO WORK OR 85TH PERCENTILE SPEED.

W= WIDTH OF OFFSET.

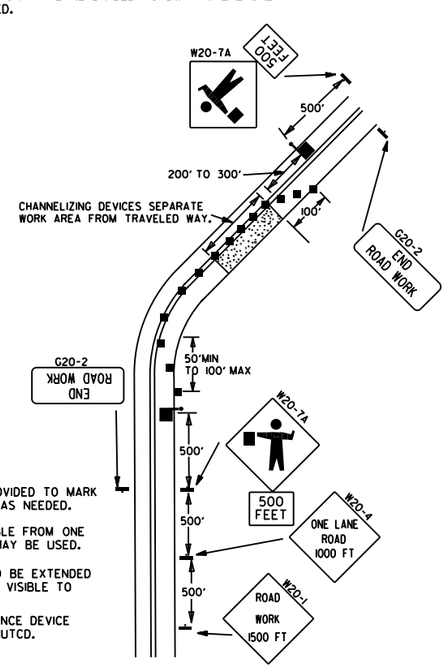
GENERAL NOTES:

1. THE MAINTENANCE DIVISION SHALL CONDUCT A BALL BANK STUDY TO DETERMINE THE ADVISORY SPEED LIMIT PRIOR TO OPENING TO TRAFFIC. THE ADVISORY SPEED WILL BE POSTED ON W1-3 OR W1-4 CURVE WARNING SIGNS. USE W1-4 WHEN SPEED IS GREATER THAN 30MPH AND W1-3 WHEN 30MPH OR LESS
2. WHEN THE EXISTING SPEED LIMIT IS 55MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-1(55) SHALL BE OMITTED AND THE W3-5 SHALL BE INSTALLED AT THAT LOCATION. ADDITIONAL R2-1 45MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE INTERVALS. AT THE END OF THE WORK AREA A R2-1(XX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
3. WHEN THE EXISTING SPEED LIMIT IS 65MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 55MPH, THE R2-1(45) SHALL BE OMITTED. ADDITIONAL R2-1 55MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE INTERVALS. AT THE END OF THE WORK AREA A R2-1(XX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
4. THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A TAPER SHOULD BE APPROXIMATELY EQUAL IN FEET TO THE SPEED LIMIT. BEYOND THE TAPER, MAXIMUM SPACING SHALL BE TWO TIMES THE SPEED LIMIT, OR AS DIRECTED BY THE ENGINEER.
5. WARNING LIGHTS AND/OR FLAGS MAY BE MOUNTED TO SIGNS OR CHANNELIZING DEVICES AT NIGHT AS NEEDED.
6. PAVEMENT MARKINGS NO LONGER APPLICABLE WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE.
7. TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE DELINEATED BY AFFIXING CONSPICUITY MATERIAL IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER. WHEN PLACED ON OR ADJACENT TO THE SHOULDER AND NOT BEHIND A POSITIVE BARRIER, THESE DEVICES SHALL BE DELINEATED BY PLACING FIVE (5) TRAFFIC DRUMS, EQUALLY SPACED ALONG THE TRAFFIC SIDE OF THE DEVICE. PAYMENT FOR TRAFFIC DRUMS SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR VARIOUS TRAILER MOUNTED DEVICES.
8. DIMENSIONS SHOWN FOR RAISED PAVEMENT MARKERS ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR MARKERS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR SIMILAR MARKERS MAY BE MADE BY REFERRING TO THE ARDOT QUALIFIED PRODUCTS LIST.
9. ALL TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL MEET THE REQUIREMENTS OF THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).



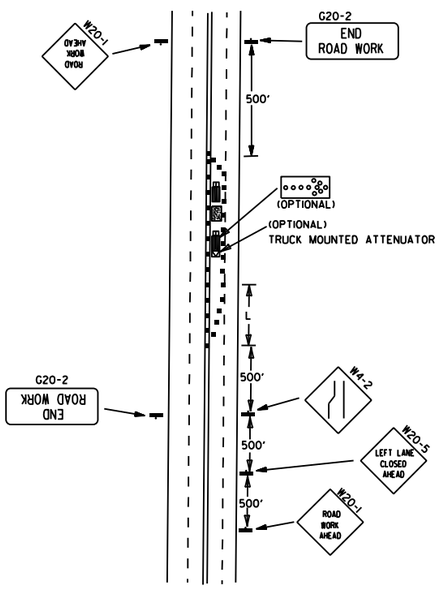
NOTES:
1. REGULATORY TRAFFIC CONTROL DEVICES TO BE MODIFIED AS NEEDED FOR THE DURATION OF THE DETOUR.
2. STREET NAMES MAY BE USED WHEN DESIRABLE FOR DIRECTING DETOURED TRAFFIC.

(D) TYPICAL APPLICATION - ROADWAY CLOSED BEYOND DETOUR POINT.



NOTES:
1. FLOOD LIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED.
2. IF ENTIRE WORK AREA IS VISIBLE FROM ONE STATION, A SINGLE FLAGGER MAY BE USED.
3. CHANNELIZING DEVICES ARE TO BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
4. AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD) OPTIONAL. REFER TO MUTCD.

(E) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON 2-LANE HIGHWAY WHERE ONE LANE IS CLOSED AND FLAGGING IS PROVIDED.



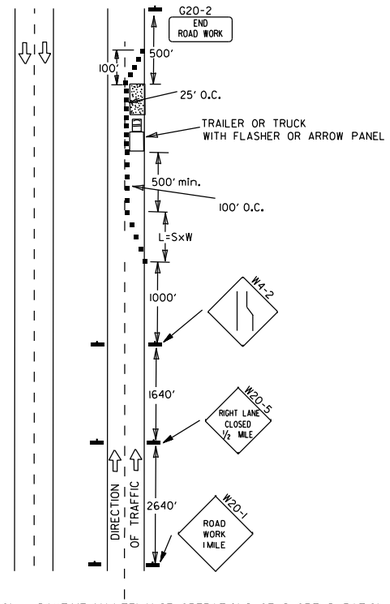
(F) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WITH INSIDE LANE CLOSED.

DATE	REVISION	FILMED
05-20-21	REVISED NOTE 7	
11-07-19	REVISED NOTE 1, ADDED NOTE 9	
9-2-15	REVISED NOTE 2, ADDED NOTE 8, REVISED DRAWING (A) & REPLACED R2-5A WITH W3-5	
9-12-13	REVISED DETAIL OF RAISED PAVEMENT MARKERS	
3-11-10	ADDED (AFAD)	
11-20-08	REVISED SIGN DESIGNATIONS	
11-18-04	ADDED GENERAL NOTE	
10-18-96	ADDED R55-1	
4-26-96	CORRECTED (a) BEHIND G20-2	
6-8-95	CORRECTED SIGN IDENT. ON W1-4A	6-8-95
2-2-95	REVISED PER PART VI, MUTCD, SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	

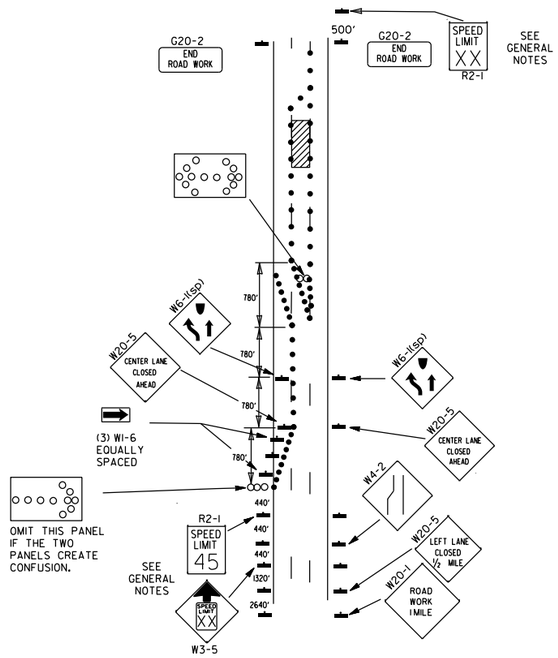
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

STANDARD DRAWING TC-2



(A) TYPICAL APPLICATION - DAYTIME MAINTENANCE OPERATIONS OF SHORT DURATION ON A 4-LANE DIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.



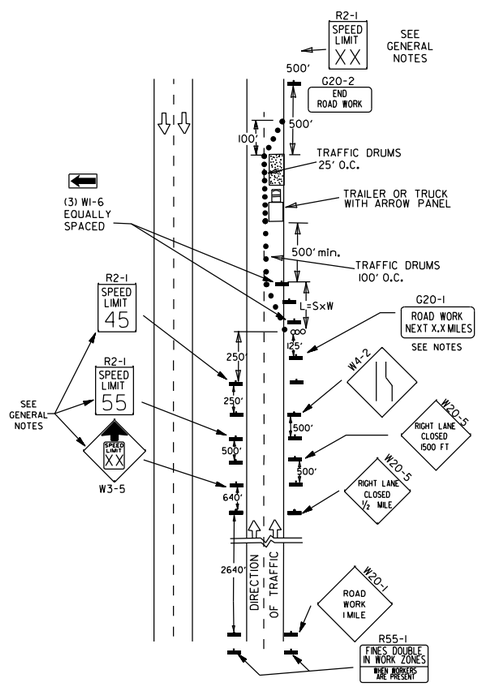
(B) TYPICAL APPLICATION - 3-LANE ONEWAY ROADWAY WHERE CENTER LANE IS CLOSED.

KEY:

- ooo ARROW PANEL (IF REQUIRED)
- ■ CHANNELIZING DEVICE
- ● TRAFFIC DRUM

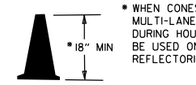
GENERAL NOTES:

1. A SPEED LIMIT REDUCTION MAY BE IMPLEMENTED ONLY WHEN DESIGNATED IN THE PLAN OR WHEN RECOMMENDED BY THE ROADWAY DESIGN DIVISION.
2. WHEN THE EXISTING SPEED LIMIT IS 55MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-1(55) SHALL BE OMITTED AND THE W3-5 SHALL BE INSTALLED AT THAT LOCATION. ADDITIONAL R2-1 45MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE INTERVALS. AT THE END OF THE WORK AREA A R2-1(XX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
3. WHEN THE EXISTING SPEED LIMIT IS 65MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 55MPH, THE R2-1(45) SHALL BE OMITTED. ADDITIONAL R2-1 55MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE INTERVALS. AT THE END OF THE WORK AREA A R2-1(XX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
4. THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A TAPER SHOULD BE APPROXIMATELY EQUAL IN FEET TO THE SPEED LIMIT. BEYOND THE TAPER, MAXIMUM SPACING SHALL BE TWO TIMES THE SPEED LIMIT OR AS DIRECTED BY THE ENGINEER.
5. WARNING LIGHTS AND/OR FLAGS MAY BE MOUNTED TO SIGNS OR CHANNELIZING DEVICES AT NIGHT AS NEEDED.
6. PAVEMENT MARKINGS NO LONGER APPLICABLE WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE.
7. THE G20-1 SIGN WILL BE REQUIRED ON JOBS OF OVER TWO MILES IN LENGTH. WHEN THE LANE CLOSURE IS NOT AT THE BEGINNING OF THE PROJECT, THE G20-1 SIGN SHALL BE ERECTED 125' IN ADVANCE OF THE JOB LIMIT. ADDITIONAL W20-1 (1 MILE) SIGNS ARE NOT REQUIRED IN ADVANCE OF LANE CLOSURES THAT BEGIN INSIDE THE PROJECT LIMITS.
8. FLAGGERS SHALL USE STOP/SLOW PADDLES FOR CONTROLLING TRAFFIC THROUGH WORK ZONES. FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS.
9. ALL PLASTIC DRUMS AND CONES SHALL MEET THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).
10. TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE DELINEATED BY AFFIXING CONSPICUITY MATERIAL IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER. WHEN PLACED ON OR ADJACENT TO THE SHOULDER AND NOT BEHIND A POSITIVE BARRIER, THESE DEVICES SHALL BE DELINEATED BY PLACING FIVE (5) TRAFFIC DRUMS, EQUALLY SPACED ALONG THE TRAFFIC SIDE OF THE DEVICE. PAYMENT FOR TRAFFIC DRUMS SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR VARIOUS TRAILER MOUNTED DEVICES.
11. ALL TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL MEET THE REQUIREMENTS OF THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).



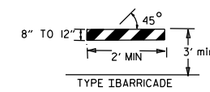
(C) TYPICAL APPLICATION - CONSTRUCTION OPERATIONS OF INTERMEDIATE TO LONG TERM DURATION ON A 4-LANE DIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.

CHANNELIZING DEVICES



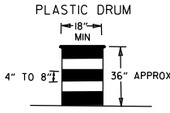
* WHEN CONES ARE USED ON FREEWAYS AND MULTI-LANE HIGHWAYS, THEY SHALL BE 28" MIN. DURING HOURS OF DARKNESS, 28" CONES SHALL BE USED ON ALL ROADWAYS, AND SHALL BE REFLECTORIZED IN ACCORDANCE WITH THE M.U.T.C.D.

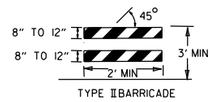
CONES



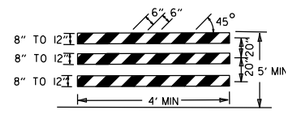
TYPE I BARRICADE

PLASTIC DRUM



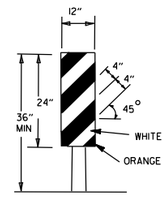


TYPE II BARRICADE



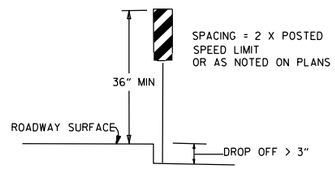
TYPE III BARRICADE

NOTE:
FOR ALL ROAD CLOSURES, THE TYPE III BARRICADES SHALL BE OF SUFFICIENT LENGTH TO EXTEND ACROSS ENTIRE ROADWAY.

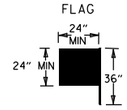


VERTICAL PANEL
VP-1R

VERTICAL PANEL PLACEMENT



FLAG



FLAG SHALL BE OF GOOD GRADE RED MATERIAL

TRAFFIC CONTROL DEVICES

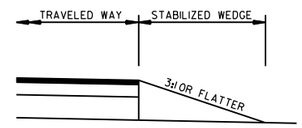
NON-INTERSTATE			
VERTICAL DIFFERENTIAL	LOCATION	TRAFFIC CONTROL	
		≤ 45 MPH	> 45 MPH
≤ 1"	CENTERLINE	W8-11	W8-11
> 1" ≤ 3"	CENTERLINE	W8-11 AND CENTERLINE LANE STRIPING	W8-11 AND CENTERLINE LANE STRIPING
> 3"	CENTERLINE	STANDARD LANE CLOSURE(6)	STANDARD LANE CLOSURE(6)
≤ 3"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-9 AND TRAFFIC DRUMS(1)	W8-9 AND TRAFFIC DRUMS(1)
> 3" ≤ 6"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS(1)	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUNS(1)
> 6" ≤ 18"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS(1)	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUNS(2)
> 18" ≤ 24"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS(1)	A STABILIZED WEDGE, W8-17, EDGE LINE STRIPING AND TRAFFIC DRUMS(3)
> 24"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	PRECAST CONCRETE BARRIER(4) & EDGE LINES	PRECAST CONCRETE BARRIER(4) & EDGE LINES

INTERSTATE		
VERTICAL DIFFERENTIAL	LOCATION	TRAFFIC CONTROL
≤ 3"	CENTERLINE	W8-11 AND LANE STRIPING
≤ 3"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-9, EDGE LINE STRIPING, AND TRAFFIC DRUMS(2)
> 3" ≤ 6"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS(2)
> 6"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	PRECAST CONCRETE BARRIER & EDGE LINES

INTERSTATE AND NON-INTERSTATE		
FORESLOPE	HEIGHT	TRAFFIC CONTROL
1:1	> 2 FT	PRECAST CONCRETE BARRIER
2:1	≤ 5 FT	TRAFFIC DRUMS
2:1	> 5 FT	PRECAST CONCRETE BARRIER
Flatter than 2:1	N/A	TRAFFIC DRUMS

GENERAL NOTES:

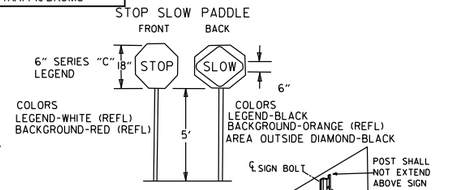
1. WHEN THE SHOULDER AREA IS USED AS PART OF THE TRAVELED LANE AND THERE IS INSUFFICIENT WIDTH TO PLACE TRAFFIC DRUMS ON THE REMAINING SHOULDER WIDTH, THEN VERTICAL PANELS SHALL BE USED.
2. WHEN THERE IS INSUFFICIENT WIDTH TO PLACE TRAFFIC DRUMS ON THE REMAINING SHOULDER WIDTH, A STABILIZED WEDGE SHALL BE USED.
3. PRECAST CONCRETE BARRIER WALL CAN BE USED IN LIEU OF A STABILIZED WEDGE, W8-17 SIGN, EDGE LINE STRIPING, AND TRAFFIC DRUMS, IF AND WHERE DIRECTED BY THE ENGINEER.
4. A STABILIZED WEDGE, W8-17 SIGN, EDGE LINE STRIPING, AND TRAFFIC DRUMS CAN BE USED IN LIEU OF PRECAST CONCRETE BARRIER WALL, IF AND WHERE DIRECTED BY THE ENGINEER.
5. W21-5, W21-5a, AND/OR W21-5b SIGNS SHALL BE USED WHERE THE ROADWAY IS UNOBSTRUCTED IF AND WHERE DIRECTED BY THE ENGINEER.
6. TIME LIMITATIONS MUST CONFORM TO SECTION 603 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION).

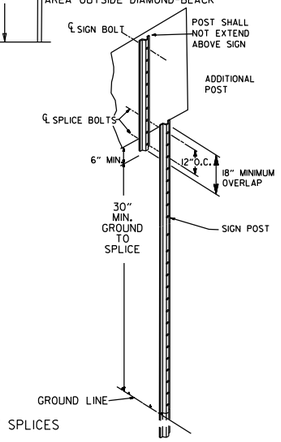


STABILIZED WEDGE

NOTE:
MATERIALS FOR THE STABILIZED WEDGE SHALL MEET THE REQUIREMENTS PROVIDED IN SECTION 603.02 OF THE STANDARD SPECIFICATIONS.

STOP SLOW PADDLE

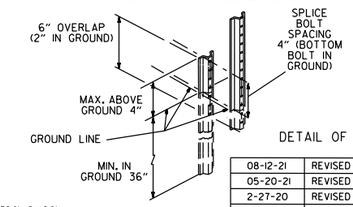




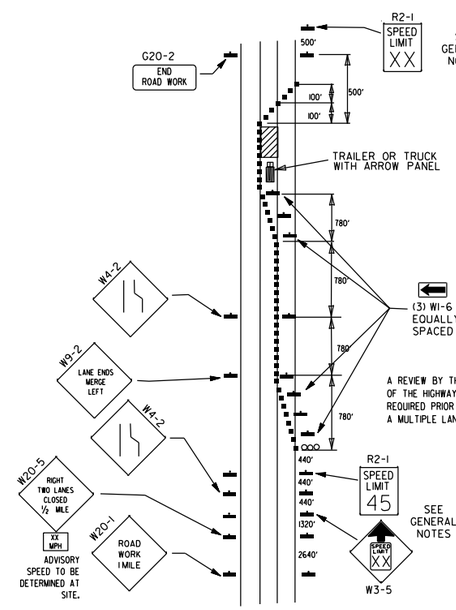
NOTES: USE SPLICES ONLY WHEN NECESSARY FOR INSTALLATION. TYPICAL INSTALLATION SHOULD HAVE NO SPLICES (SEE STD. DRAWING NO. SHS-21)

NORMAL INSTALLATIONS WILL REQUIRE 1/4" DIA. BOLTS TO MOUNT SIGNS TO POST AND 5/16" DIA. BOLTS TO ASSEMBLE THE VARIOUS POST SUPPORTS. EACH OF THESE BOLTS SHALL BE CARRIAGE BOLTS.

SIGN POSTS SHALL BE PAINTED GREEN; SIGNS SHALL NOT BE PAINTED, AND ALL SIGN POSTS SHALL BE PLUMB.



DETAIL OF SPLICES



A REVIEW BY THE ROADWAY DESIGN DIVISION OF THE HIGHWAY DEPARTMENT WILL BE REQUIRED PRIOR TO IMPLEMENTING A MULTIPLE LANE CLOSURE.

(D) TYPICAL APPLICATION - CLOSING MULTIPLE LANES OF A MULTILANE HIGHWAY.

DATE	REVISION	FILMED
08-12-21	REVISED TRAFFIC CONTROL DEVICES AND NOTES	
05-20-21	REVISED NOTE 10	
2-27-20	REVISED TRAFFIC CONTROL DEVICES DETAILS	
11-07-19	REVISED NOTE 9, ADDED NOTE 11	
7-25-19	REVISED TRAFFIC CONTROL DEVICES DETAILS	
9-2-15	REVISED NOTE 2 & REPLACED R2-5A WITH W3-5	
10-15-09	ADDED REFERENCE TO MASH	
11-20-08	REVISED SIGN DESIGNATIONS	
11-18-04	ADDED NOTE	
10-1-98	ADDED NOTE	
4-03-97	ADDED (SP) TO W6-1 & REVISED TRAFFIC CONTROL DEVICES NOTE	
10-18-96	ADDED R55-1	
10-12-95	MOVED UPPER SPLICE	
6-8-95	REVISED SPLICE DETAIL, TEXT	6-8-95
2-2-95	REVISED PER PART VI, MUTCD, SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	

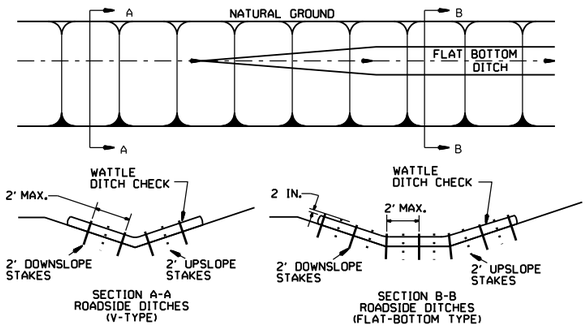
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

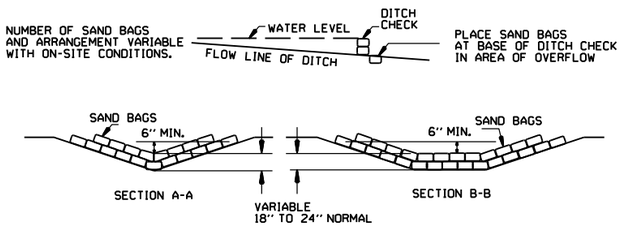
STANDARD DRAWING TC-3

GENERAL NOTES

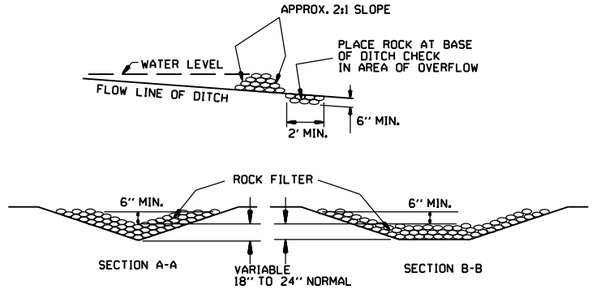
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.



WATTLE DITCH CHECK (E-1)



SAND BAG DITCH CHECK (E-5)

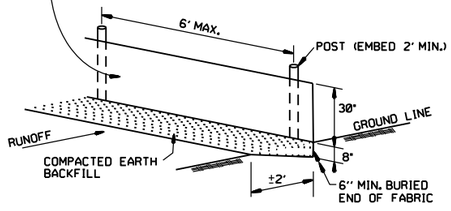


ROCK DITCH CHECK (E-6)

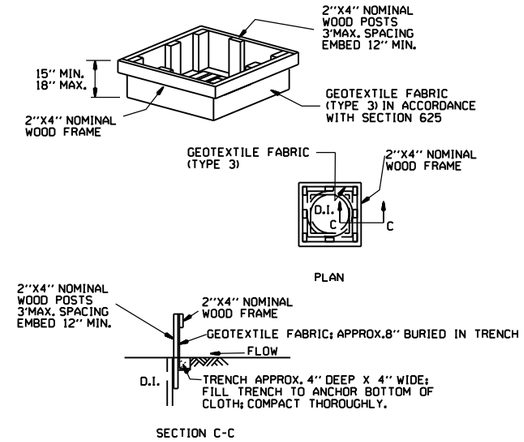
GENERAL NOTES

GEOTEXTILE FABRIC (TYPE 4) IN ACCORDANCE WITH SECTION 625

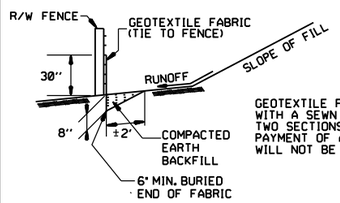
GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.



SILT FENCE (E-11)

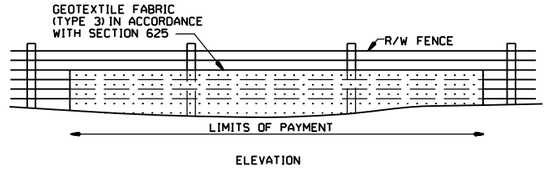


DROP INLET SILT FENCE (E-7)



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.



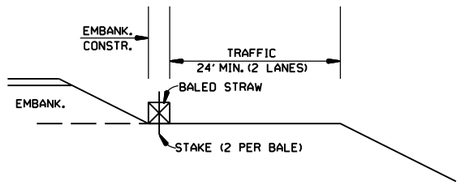
SILT FENCE ON R/W FENCE (E-4)

GENERAL NOTES

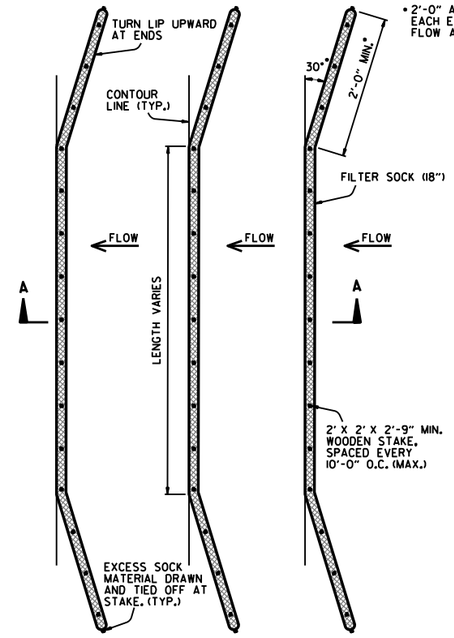
1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.

2. NO GAPS SHALL BE LEFT BETWEEN BALES.

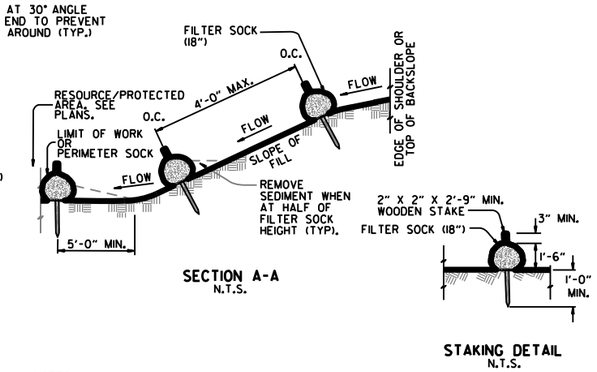
3. BALED STRAW FILTER BARRIERS COMPLETED AND ACCEPTED WILL BE MEASURED BY THE BALE IN PLACE AS AUTHORIZED BY THE ENGINEER AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER BALE FOR BALED STRAW DITCH CHECKS.



BALED STRAW FILTER BARRIER (E-2)



PLAN VIEW
N.T.S.



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.

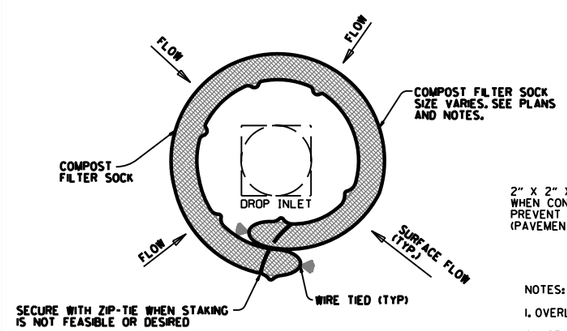
2. FILTER SOCKS ARE TYPICALLY SUPPLIED AND INSTALLED WITH 18 INCH DIAMETERS. DIAMETER TOLERANCE IS 2 INCHES. AS FILTER SOCKS TEND TO FLATTEN OUT WHEN PLACED.

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")."

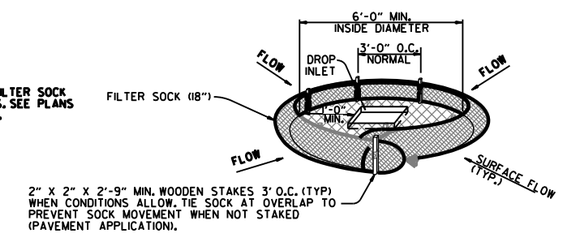
4. FILTER SOCKS MAY BE UP TO 250 FEET LONG. WHEN USED ON LONG SLOPES, FILTER SOCKS MAY BE JOINTED OR STAGGERED AS SHOWN IN DETAILS.

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.

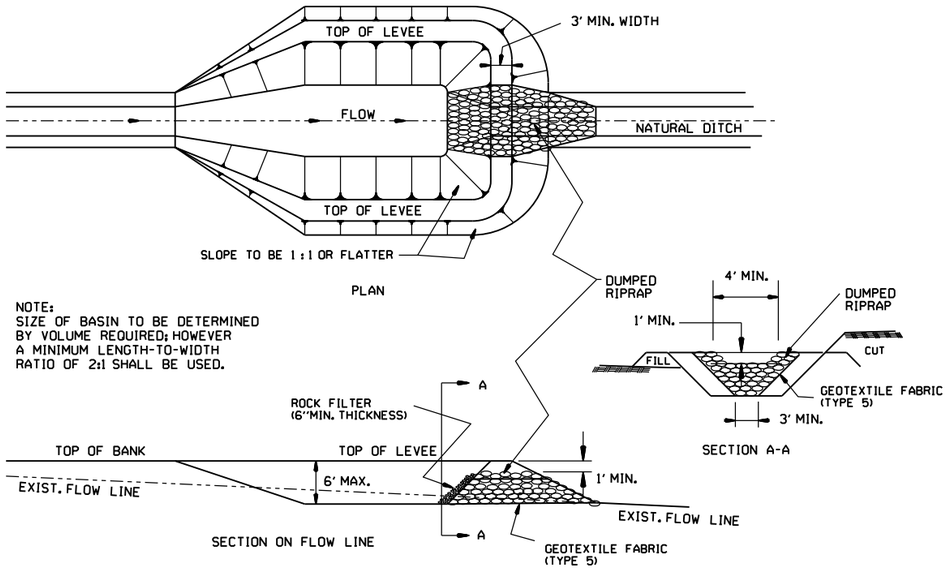
COMPOST FILTER SOCK DROP INLET PROTECTION (E-13)

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

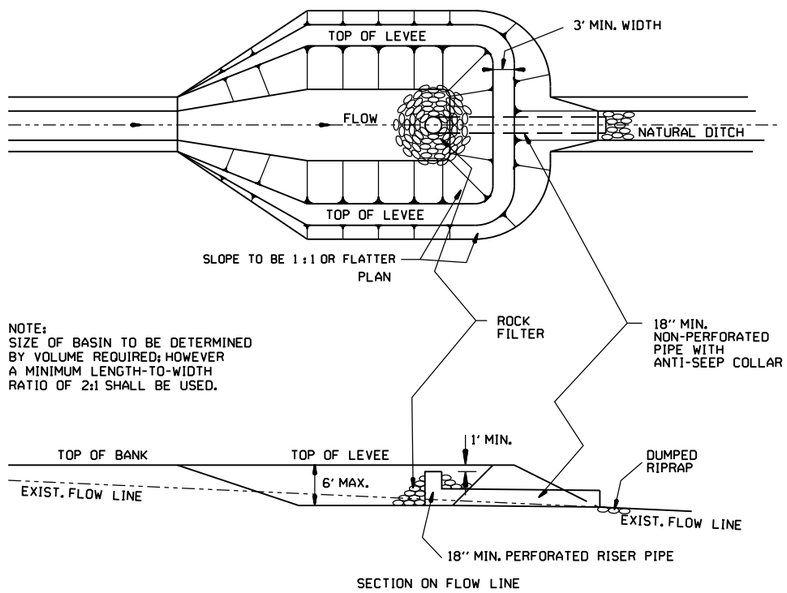
ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

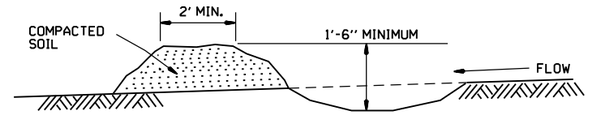
STANDARD DRAWING TEC-1



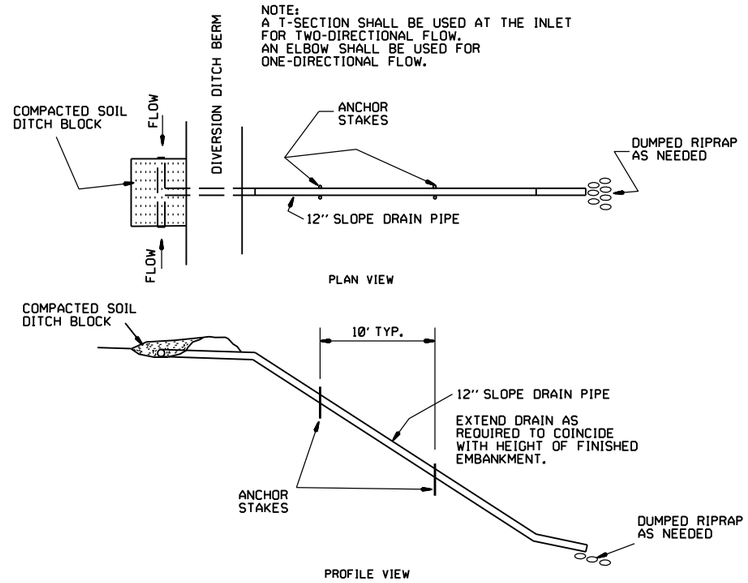
SEDIMENT BASIN WITH RIPRAP OUTLET (E-9)



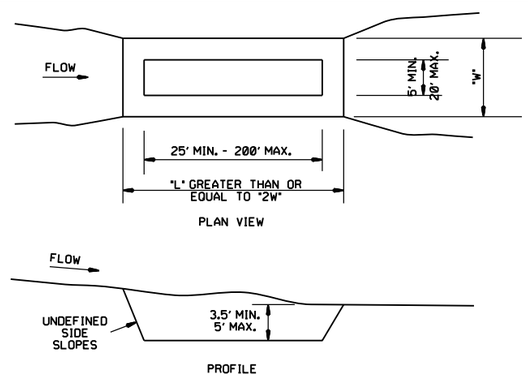
SEDIMENT BASIN WITH PIPE OUTLET (E-10)



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

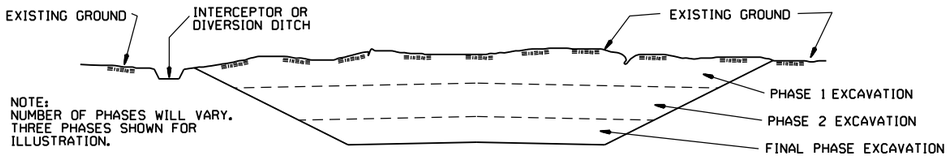
STANDARD DRAWING TEC-2

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



NOTE:
NUMBER OF PHASES WILL VARY.
THREE PHASES SHOWN FOR ILLUSTRATION.

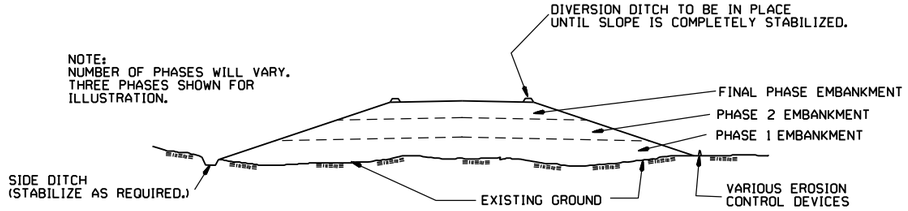
GENERAL NOTE

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



NOTE:
NUMBER OF PHASES WILL VARY.
THREE PHASES SHOWN FOR ILLUSTRATION.

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

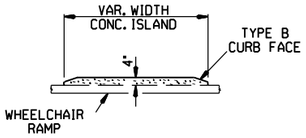
1. CONSTRUCT DIVERSION DITCHES, DITCH CHECKS, SEDIMENT BASINS, SILT FENCES, OR OTHER EROSION CONTROL DEVICES AS SPECIFIED.
2. PLACE PHASE 1 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD 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

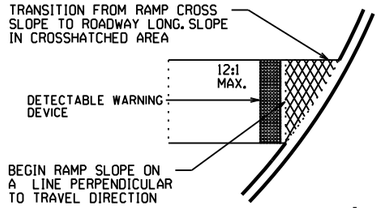
ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

STANDARD DRAWING TEC-3



CONCRETE ISLAND DETAIL



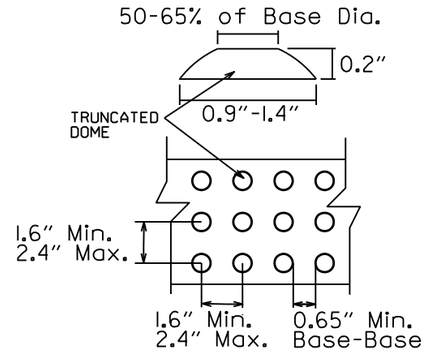
SLOPE TRANSITION DETAILS

TYPE 1 RAMP DIMENSIONS AND QUANTITIES

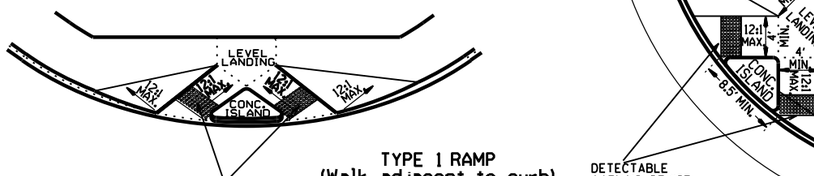
RADIUS "R" FEET	DISTANCE "X" FEET	DISTANCE "Y" FEET	LENGTH "L" FEET	RAMP AREA "A" SQ. YD.
15	11.67	18.82	32.18	26.21
20	11.52	22.28	35.46	30.07
25	11.43	26.60	38.77	33.80
30	11.37	30.26	40.93	36.90
35	11.33	33.51	43.11	39.77
40	11.30	36.45	45.26	42.45
45	11.27	39.16	47.34	44.97
50	11.25	41.69	49.36	47.35
55	11.24	44.07	51.31	49.63
60	11.22	46.33	53.21	51.80

GENERAL NOTES FOR DETECTABLE WARNING DEVICES

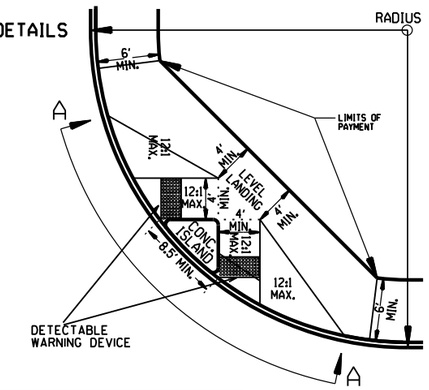
THE DETECTABLE WARNING DEVICE SHALL BE LOCATED SO THAT THE NEAREST EDGE OF THE DEVICE IS 6 TO 8 INCHES FROM THE FACE OF THE CURB.
TRUNCATED DOMES IN THE DETECTABLE WARNING SURFACE SHALL MEET THE REQUIREMENTS OF THE GEOMETRIC CONFIGURATION SHOWN.
DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
DETECTABLE WARNING DEVICE SHALL BE 24 INCHES IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.
DETECTABLE WARNING DEVICE SHALL BE ON THE ARDOT QUALIFIED PRODUCTS LIST FOR CAST-IN-PLACE TACTILE PANELS (ADA DETECTABLE WARNING).

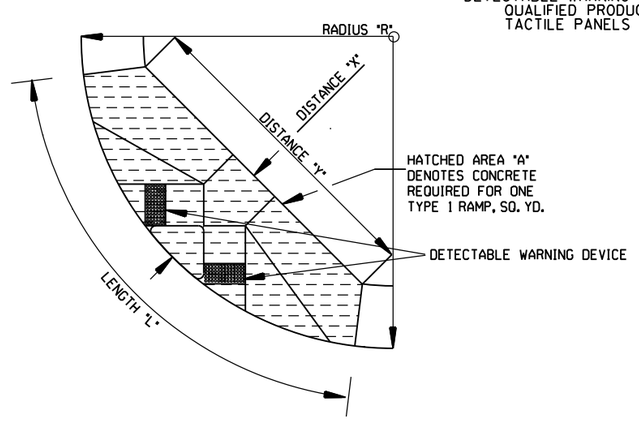


DETECTABLE WARNING DEVICE DETAIL



TYPE 1 RAMP
(Walk adjacent to curb)





SECTION A-A

GENERAL NOTES:

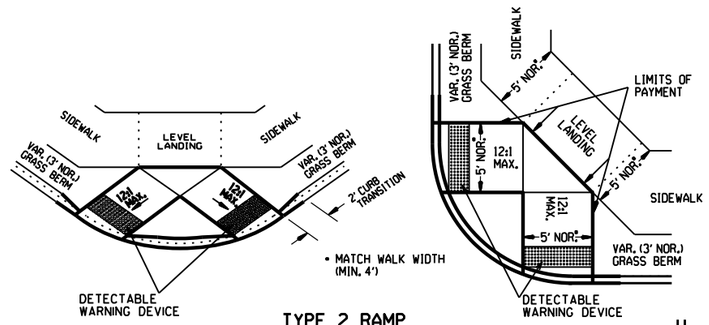
IN NEW CONSTRUCTION, UNLESS OTHERWISE INDICATED ON THE PLANS, WHEELCHAIR RAMPS ARE TO BE PROVIDED AT ALL CORNERS OF CURBED STREET INTERSECTIONS AND MID-BLOCK CROSSWALK LOCATIONS.
IN ALTERATIONS WHEELCHAIR RAMPS ARE TO BE PROVIDED AT CURBED STREET INTERSECTIONS WITH PEDESTRIAN TRAFFIC AND MID-BLOCK CROSSWALK LOCATIONS.

THE LENGTH OF THE RAMP SHALL BE SUCH THAT THE SLOPE DOES NOT EXCEED 12:1. THE SURFACE TEXTURE OF THE RAMP SHALL CONFORM TO A CLASS 6 FINISH ACCORDING TO SECTION 802.19.

THE NORMAL GUTTER GRADE SHALL BE MAINTAINED THROUGH THE AREA OF THE RAMP.
ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION.
THE MINIMUM THICKNESS OF THE RAMP, WALK, & LANDING SHALL BE 4".
THE MINIMUM WIDTH OF THE RAMPS SHALL BE THE WALK WIDTH OR 36", WHICHEVER IS GREATER.

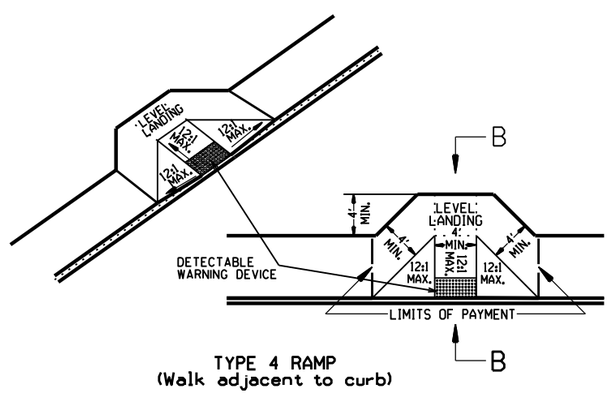
RAMPS SHALL BE MODIFIED AS NECESSARY TO INSURE THAT THEY ARE PARALLEL TO A LINE DRAWN FROM THE CENTER OF ONE RAMP TO THE CENTER OF THE RAMP ON THE OPPOSITE SIDE OF THE INTERSECTION.

THE DIMENSIONS AND QUANTITIES SHOWN ON THIS DRAWING ARE FOR A 90° INTERSECTION ONLY. DIMENSIONS AND QUANTITIES FOR SKEWED INTERSECTIONS WILL VARY, AND ARE TO BE DETERMINED BY THE ENGINEER.



TYPE 2 RAMP

NOTE:
THE CROSS SLOPE OF THE RAMPS, LEVEL LANDINGS, AND SIDEWALKS SHALL NOT EXCEED 2.0% UNLESS REQUIRED TO MATCH STREET LONGTITUDINAL GRADE.



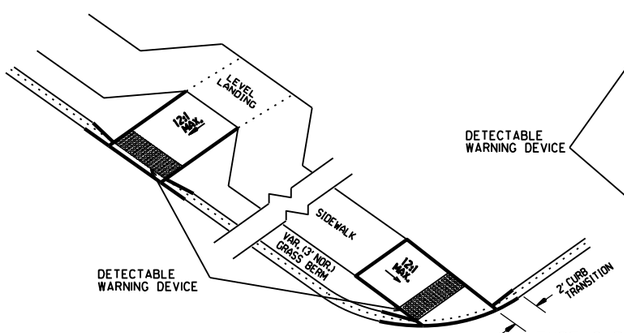
TYPE 4 RAMP
(Walk adjacent to curb)

RAMP SELECTION CRITERIA

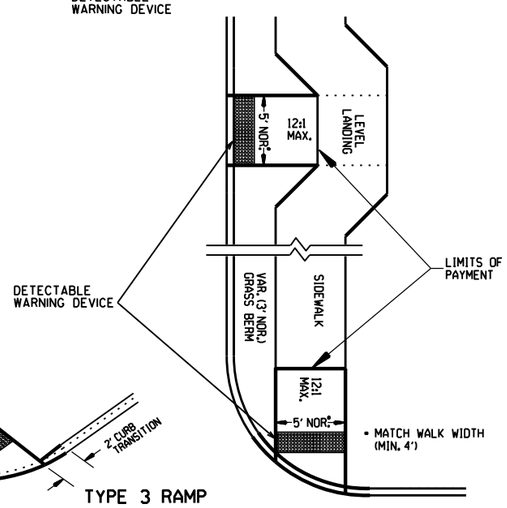
FIRST CHOICE	TYPE 1	CORNER LOCATIONS WITH THE WALK ADJACENT TO THE CURB (BOTH NEW CONSTRUCTION AND ALTERATIONS).
	TYPE 2	CORNER LOCATIONS WITH THE WALK OFFSET FROM THE CURB A DISTANCE INSUFFICIENT TO ALLOW THE REQUIRED RAMP SLOPE (BOTH NEW CONSTRUCTION AND ALTERATIONS).
	TYPE 3	CORNER LOCATIONS WITH THE WALK OFFSET FROM THE CURB A DISTANCE SUFFICIENT TO ALLOW THE REQUIRED RAMP SLOPE (BOTH NEW CONSTRUCTION AND ALTERATIONS).
	TYPE 4	TANGENT LOCATIONS (BOTH NEW CONSTRUCTION AND ALTERATIONS).
SECOND CHOICE	TYPE 5	TANGENT LOCATIONS (ALTERATIONS ONLY).
THIRD CHOICE	TYPE 6	CORNER LOCATIONS (ALTERATIONS ONLY). THIS RAMP MAY BE USED ONLY IF THE TYPE 5 RAMPS CANNOT BE PLACED AT THE ENDS OF THE RADIUS.
FOURTH CHOICE		IF SITE CONSTRAINTS PREVENT THE CONSTRUCTION OF ANY OF THE TYPES LISTED, THEN AND ONLY THEN CAN THE 12:1 MAX. SLOPE ON THE RAMP BE EXCEEDED TO PROVIDE ACCESS TO THE STREET LEVEL (ALTERATIONS ONLY). THE SLOPE CAN BE STEEPENED TO A 10:1 MAX. FOR A MAX. LENGTH OF 5' OR A 8:1 MAX. FOR A MAX. LENGTH OF 2'. SLOPES STEEPER THAN 8:1 ARE NOT ALLOWED UNDER ANY CIRCUMSTANCES.

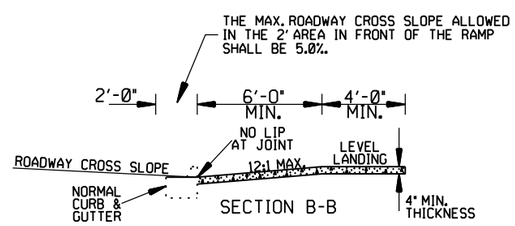
NOTE: IN ALTERATIONS, THE SELECTION OF THE TYPE OF WHEELCHAIR RAMP TO BE CONSTRUCTED SHALL BE BASED ON THE AMOUNT OF RIGHT-OF-WAY AVAILABLE, AND ON THE PRESENCE OF OTHER SITE CONSTRAINTS (UTILITIES, BUILDINGS, ETC.). THE TABLE ABOVE LISTS THE ORDER IN WHICH THE RAMPS ARE TO BE CONSIDERED.

AN ALTERATION IS DEFINED AS A PROJECT THAT CHANGES OR AFFECTS THE USE OF A PEDESTRIAN PATHWAY (OVERLAYS, SIGNALIZATION PROJECTS, ETC.) BUT DOES NOT REQUIRE THE PURCHASE OF ADDITIONAL RIGHT-OF-WAY. ALL PROJECTS THAT REQUIRE THE PURCHASE OF ADDITIONAL RIGHT-OF-WAY WILL USUALLY BE CONSIDERED NEW CONSTRUCTION FOR THE PURPOSES OF THE CHART ABOVE.



TYPE 3 RAMP





SECTION B-B

DATE	REVISION	DATE FILM
11-10-05	REVISED TO NEW SIDEWALK POLICY	
10-9-03	REVISED GEN. NOTES & ADDED NOTE	
4-10-03	REV. DETECTABLE WARNING DEVICES	
8-22-02	ADD DETECTABLE WARNING DEVICES	
3-30-00	ADD. SLOPE TRANS. & REV. ISL. DIMS.	
11-18-98	REVISED NOTES	
8-12-98	REVISED TEXTURE	
7-02-98	REDRAWN & REISSUED	
10-18-96	CORRECTED DIMENSIONS	10-18-96
5-24-90	FROM8:1TO12:1MAX.SLOPES	5-24-90
7-15-88	ADJUSTED MAX. SLOPE	652-7-15-88
7-14-88	INCLUD."CONC. ISLD."IN PAY ITEM	------
6-02-76	ISSUED-P.H.D.	299-7-28-76

ARKANSAS STATE HIGHWAY COMMISSION

WHEELCHAIR RAMPS
NEW CONSTRUCTION
AND ALTERATIONS

STANDARD DRAWING WR-1