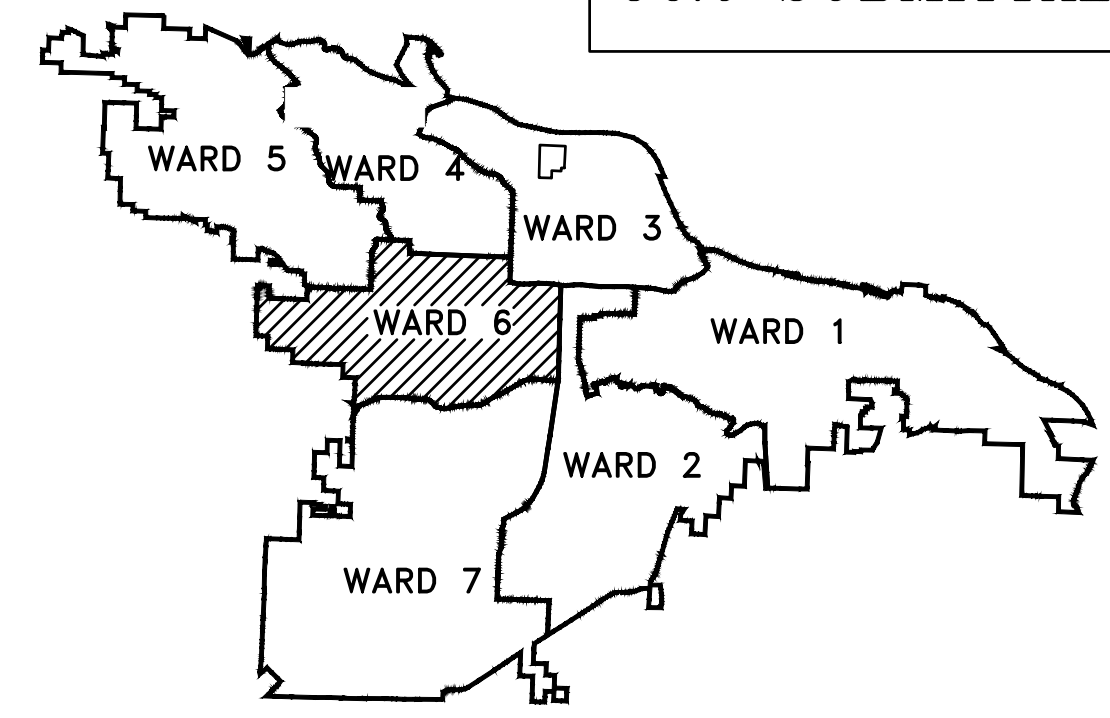


# CLR PROJECT 06-17-222B KANIS ROAD IMPROVEMENTS

(NEAR BUSINESS PARK DR TO MICHAELS ST)

90% SUBMITTAL

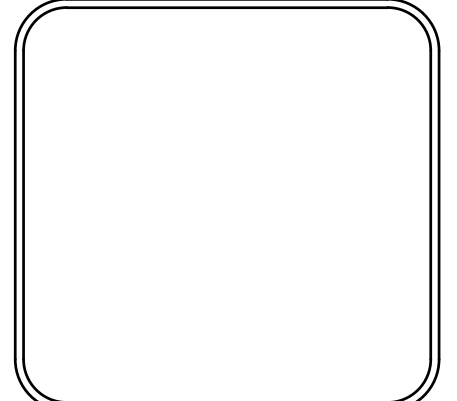


REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD IMPROVEMENTS  
COVER SHEET

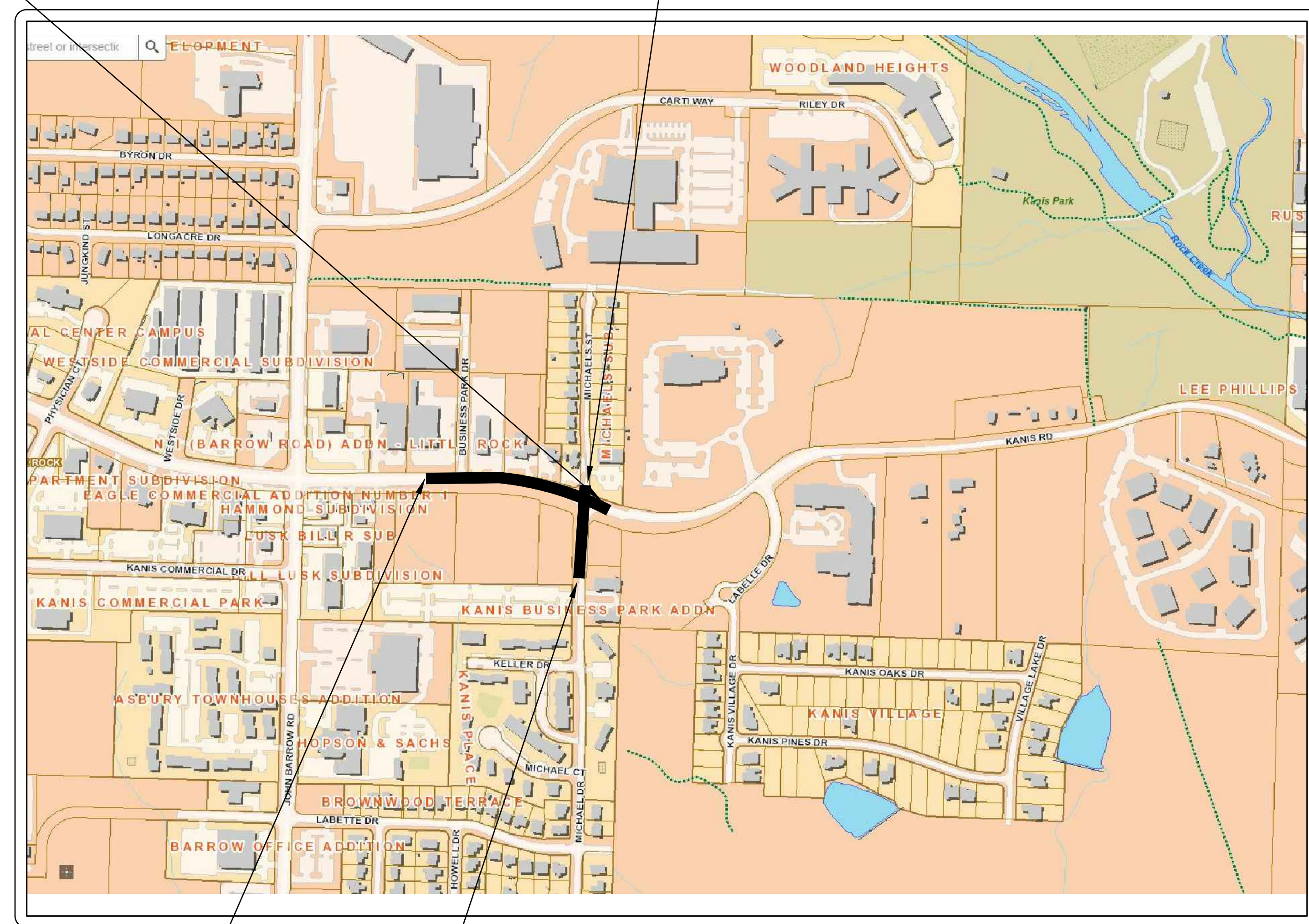
Sheet List Table	
Sheet Number	Sheet Title
C1	COVER SHEET
C2	LEGEND, QUANTITIES AND DETAILS
C3	TYPICAL SECTIONS SHEET 1
C4	TYPICAL SECTIONS SHEET 2
C5	TYPICAL SECTIONS SHEET 3
C6	P&P SHEET 1
C7	P&P SHEET 2
C8	P&P SHEET 3
C9	P&P SHEET 4
C10	MAINTENANCE OF TRAFFIC PHASE I SHEET 1
C11	MAINTENANCE OF TRAFFIC PHASE I SHEET 2
C12	MAINTENANCE OF TRAFFIC PHASE II SHEET 1
C13	MAINTENANCE OF TRAFFIC PHASE II SHEET 2
C14	STRIPING AND SIGNAGE SHEET 1
C15	STRIPING AND SIGNAGE SHEET 2
C16	DRIVEWAY GRADING
C17	EROSION CONTROL PH I SHEET 1
C18	EROSION CONTROL PH I SHEET 2
C19	EROSION CONTROL PH II SHEET 1
C20	EROSION CONTROL PH II SHEET 2
C21	EROSION CONTROL PH III SHEET 1
C22	EROSION CONTROL PH III SHEET 2
C23	CENTERLINE TIES SHEET 1
C24	CENTERLINE TIES SHEET 2
C25-C42	CROSS SECTIONS

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



PROJECT END  
STATION 21+85

OFFSITE DRAINAGE  
PROJECT END  
STATION 16+32



PROJECT START  
STATION 10+00

OFFSITE DRAINAGE  
PROJECT START  
STATION 10+00

LOCATION



Know what's below.  
Call before you dig.

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



2019-2021  
BOND PROGRAM

10825 Financial Center Parkway, Suite 300  
Little Rock, Arkansas 72211

**Crafton Tull**  
engineering | surveying  
501.664.3245 | 501.664.6704 | www.craftontull.com

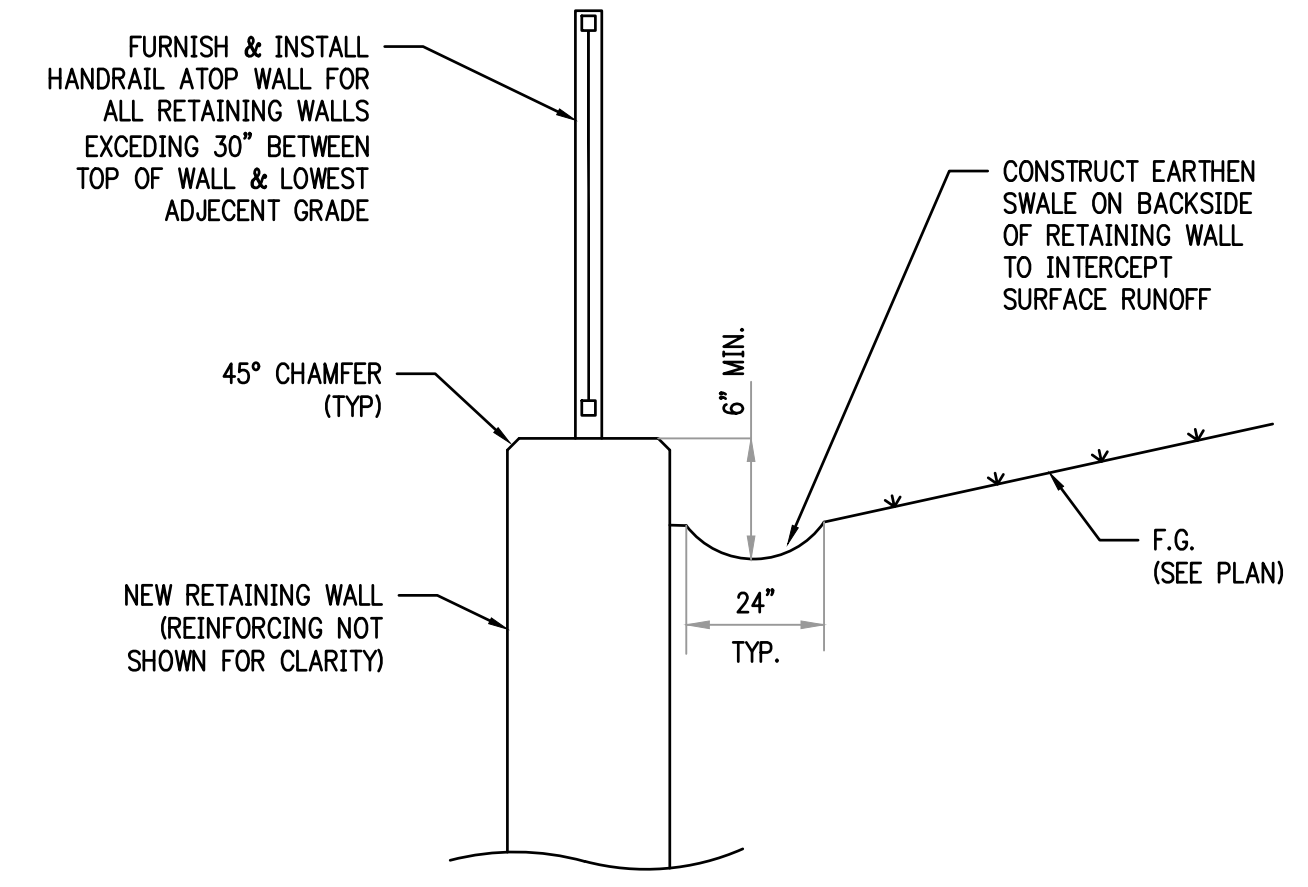
CERTIFICATE OF AUTHORIZATION:

DRAWN BY TH
DESIGNED TDF
CHECKED BAP
DATE 08-06-2019
SCALE H: 1"=20' V: 1"=5'
PROJECT NO. 06-17-222B
SHEET NO. C1



REVISIONS	DATE

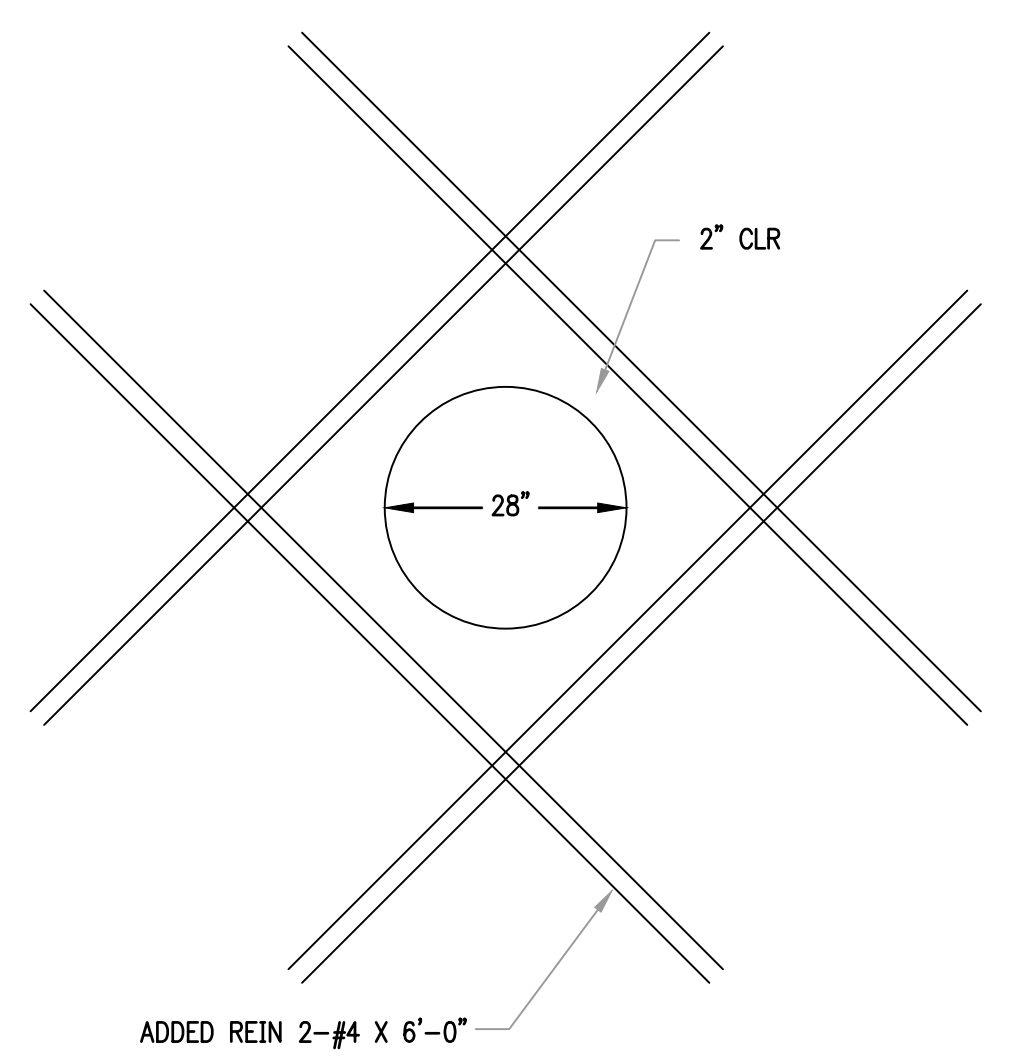
CLR PROJECT # 06-17-222B			
KANIS ROAD & DRAINAGE IMPROVEMENTS			
2/6/2020			
ITEM #	ITEM DESCRIPTION	QUANTITY	UNIT
2.01	SITE PREPARATION	1	L.S.
3.01	UNCLASSIFIED EXCAVATION	229	C.Y.
3.02	SELECT FILL	484	C.Y.
3.06	COMPACTED EMBANKMENT	60	C.Y.
4.01	AGGREGATE BASE COURSE	1005	TON
5.01	TACK COAT	357	GAL
6.01	ACHM SURFACE COURSE	1633	TON
6.20	ACHM BINDER COURSE	664	TON
7.06	CONCRETE DRIVEWAY (6" THICK), STANDARD FINISH	2357	S.F.
7.19	CONCRETE (8" THICK), STREET REPAIR	11	C.Y.
8.03	CONCRETE CURB AND GUTTER (CLASS 1)	1396	L.F.
9.04	CONCRETE SIDEWALK (4" THICK)	7460	S.F.
10.08	CURB INLET - 5' BOX	12	EA.
10.07	WING 3' EXTENSION	14	EA.
11.20	REINFORCED CONCRETE RETAINING WALL	96	C.Y.
13.18C	STORM DRAIN PIPE, 18" CROSS DRAIN	337	L.F.
13.18P	STORM DRAIN PIPE, 18" SIDE DRAIN	1215	L.F.
14.01	SOLID SODDING (BERMUDA)	717	S.Y.
16.01	MAINTENANCE OF TRAFFIC	1	L.S.
18.40	HANDRAIL	543	L.F.
18.45	RIPRAP	38	C.Y.
18.50	ACCESS RAMP (TYPE 3)	163	S.F.
18.55	WATER FOR DUST CONTROL	20,000	GAL
19.01	CLEAN UP	1	L.S.
24.01	CONSTRUCTION ENTRANCE (CO)	3	EA.
24.06	SEDIMENT BARRIER, SILT FENCE (SD1)	12	EA.
24.09	SEDIMENT BARRIER, BLOCK (SD4)	12	EA.
24.11	SILT FENCE - TYPE A (SFA)	1644	L.F.
24.18	DISTURBED AREA STABILIZATION - PERMANENT GRASSING (TS3)	0.12	AC.
26.10	TRENCH & EXCAVATION SAFETY	1	L.S.
28.01	GUARDRAIL	70	L.F.
719.04W	THERMOPLASTIC PAVEMENT STRIPING WHITE (4')	815	L.F.
719.04Y	THERMOPLASTIC PAVEMENT STRIPING YELLOW (4')	3204	L.F.



NOTES:  
 1. SEE PUBLIC WORKS DETAIL PW-54 FOR RETAINING WALL & BACKSIDE DRAINAGE DETAILS  
 2. SEE PUBLIC WORKS DETAILS PW-20 & 21 FOR HANDRAIL & MOUNTING INFORMATION

**RETAINING WALL SURFACE DRAINAGE**  
 NTS

NOTES:  
 1. TYP VERT & HORIZ WALL REINF NOT SHOWN FOR CLARITY. SEE DETAIL PW-54.  
 2. HALF OF REINF. IN OPEN ADDED TO EACH SIDE OF OPENING.

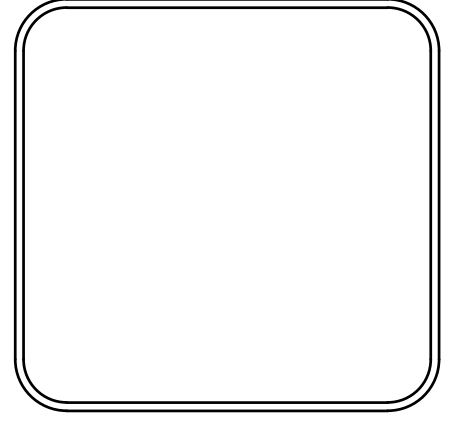


**RETAINING WALL PENETRATION OF CONCRETE PIPE**  
 NTS

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

CITY OF LITTLE ROCK, ARKANSAS  
 KANIS ROAD IMPROVEMENTS  
 LEGEND, QUANTITIES AND DETAILS

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 CIVIL ENGINEERING  
 701 W. MARKHAM  
 LITTLE ROCK, ARKANSAS 72201



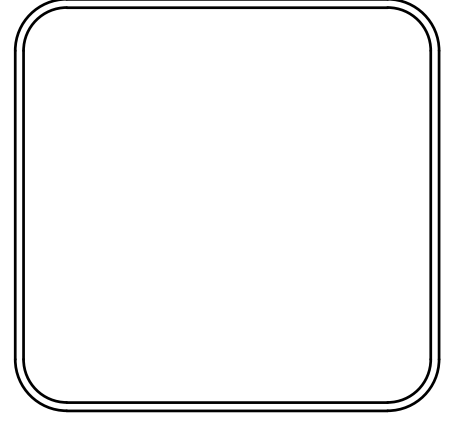
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SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	06-17-222B
SHEET NO.	C2

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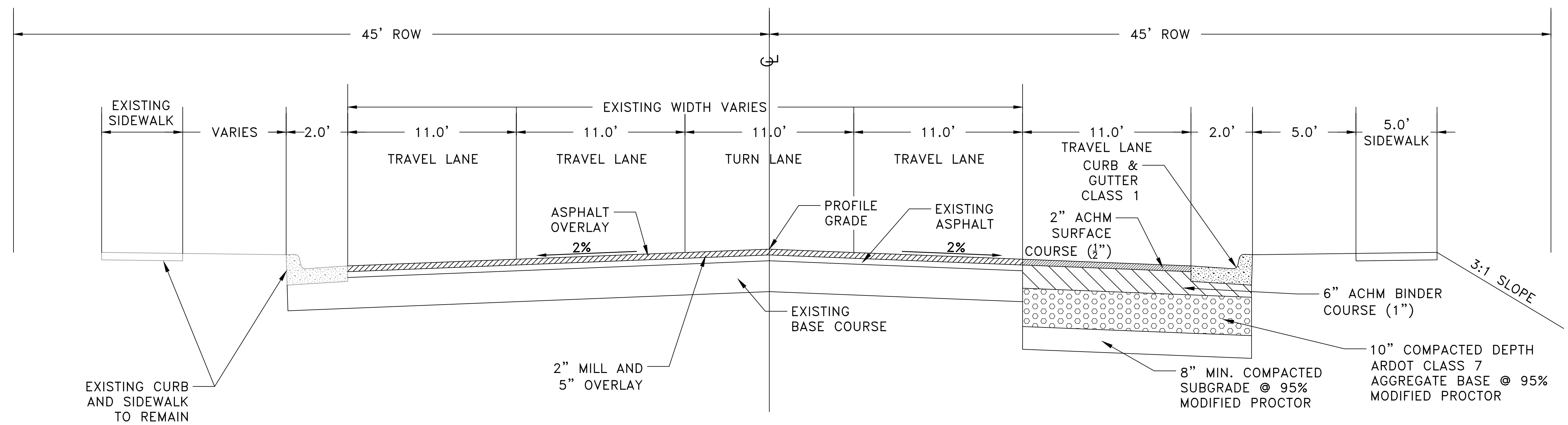
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 KANIS ROAD IMPROVEMENTS  
 TYPICAL SECTIONS SHEET 1

DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
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 LITTLE ROCK, ARKANSAS 72201

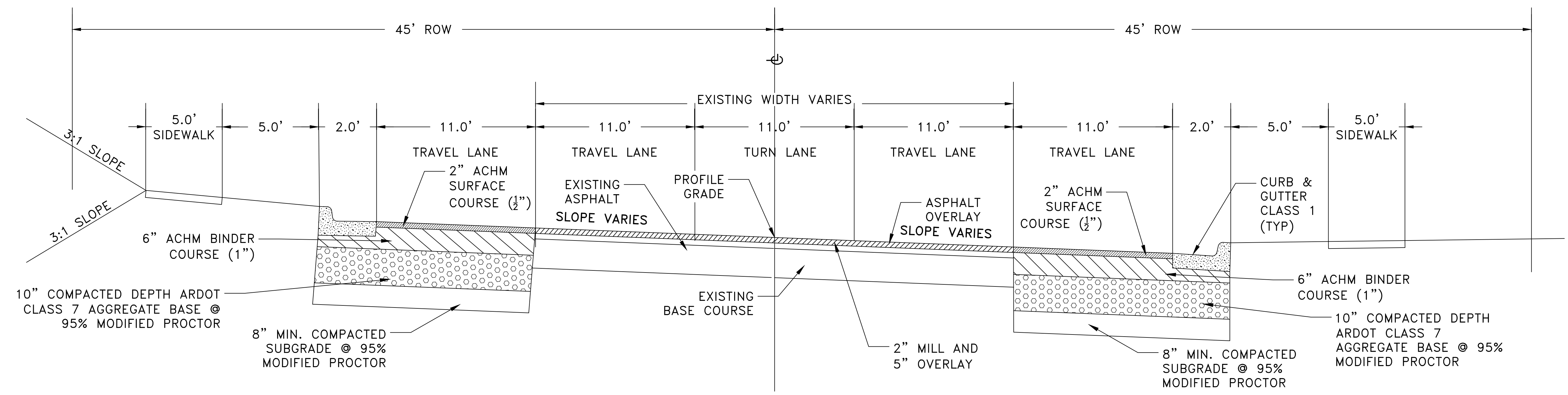


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CHECKED	BAP
DATE	08-06-2019
SCALE	NO SCALE
PROJECT NO.	06-17-222B
SHEET NO.	C3



**TYPICAL SECTION - KANIS ROAD**

STA 10+93.85 TO STA 14+83.35

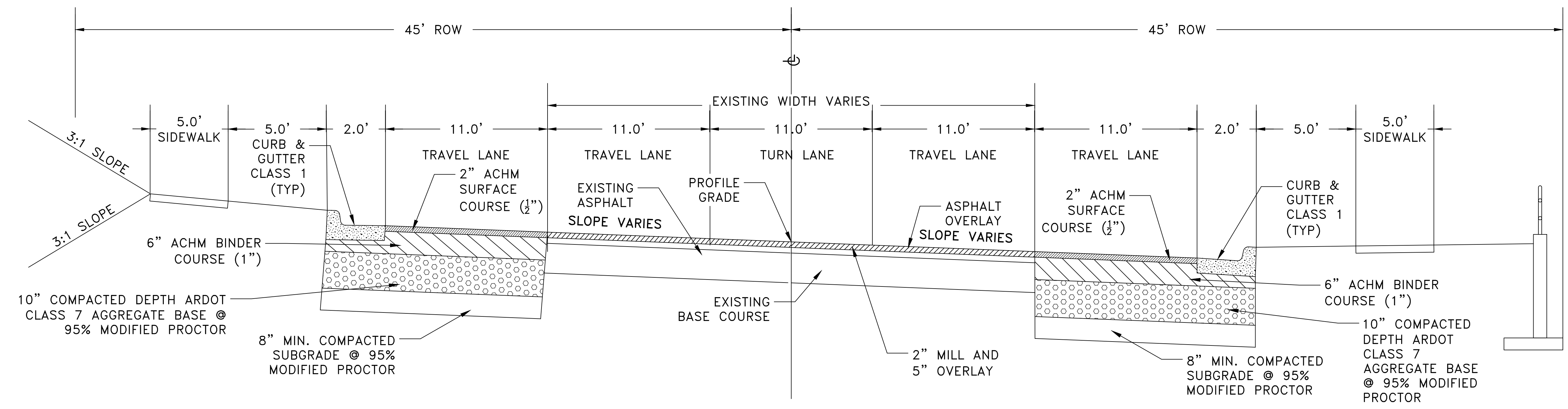


**TYPICAL SECTION - KANIS ROAD**

STA 14+83.35 TO STA 15+91.30

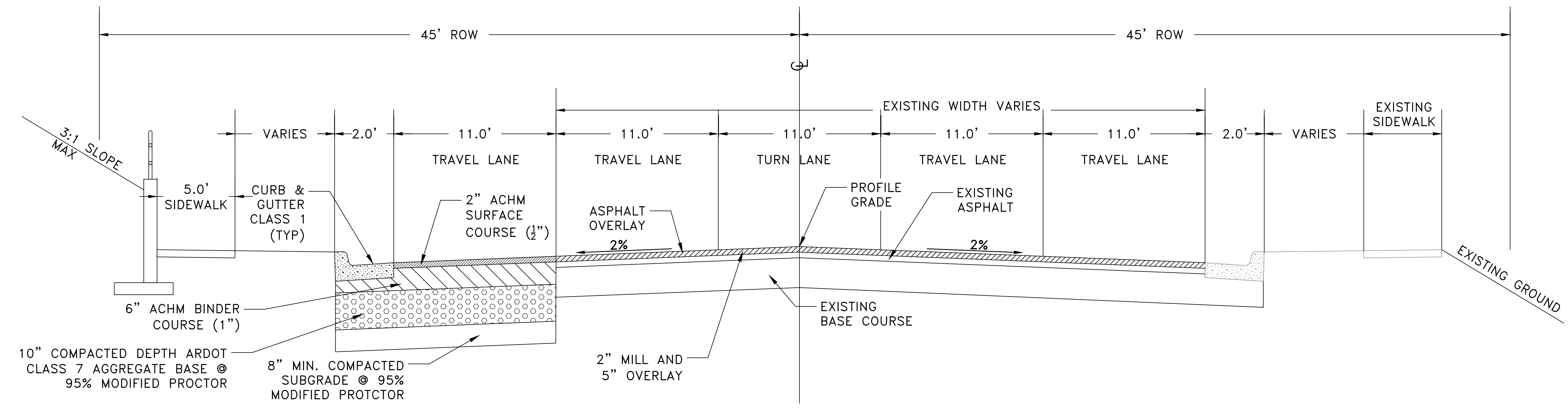
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REVISIONS	DATE



### TYPICAL SECTION - KANIS ROAD

STA 15+91.30 TO STA 19+36.45



### TYPICAL SECTION - KANIS ROAD

STA 20+00.00 TO STA 21.01.95

CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD IMPROVEMENTS  
TYPICAL SECTIONS SHEET 2

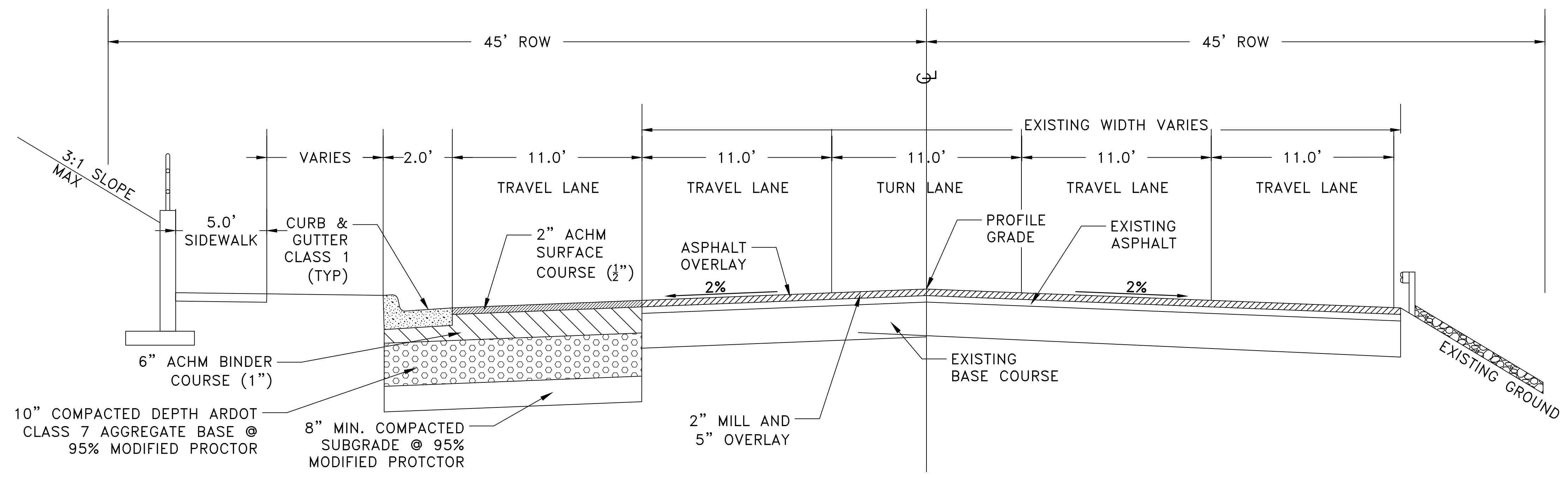
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08-06-2019  
SCALE  
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PROJECT NO.  
06-17-222B  
SHEET NO.  
C4



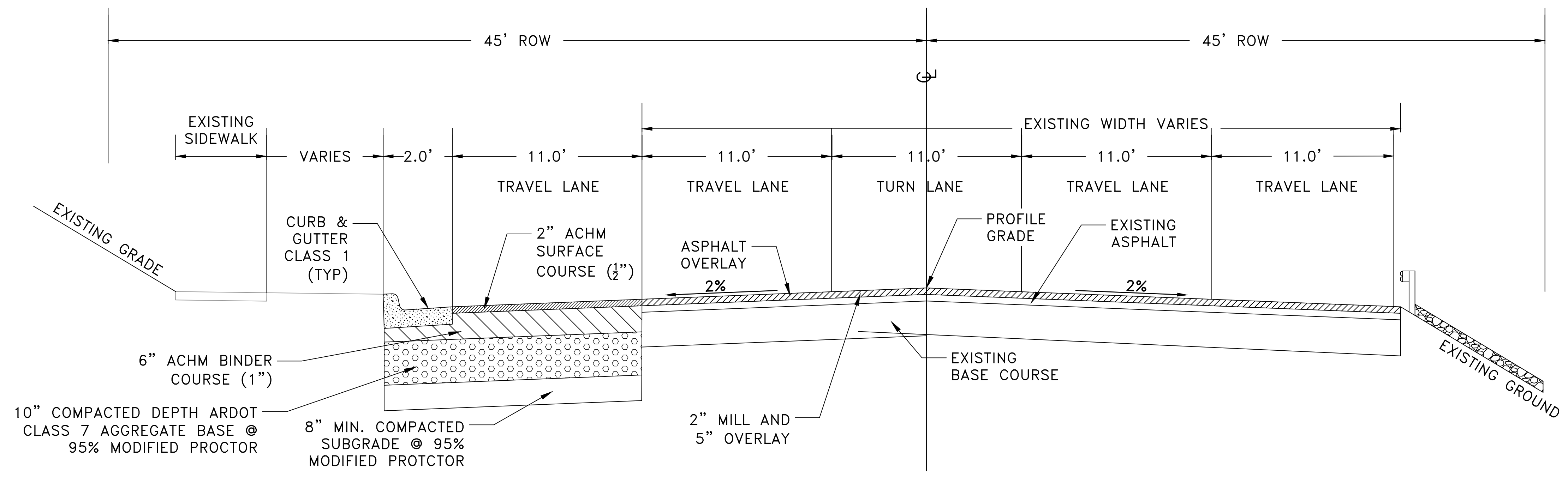
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REVISIONS	DATE



**TYPICAL SECTION - KANIS ROAD**

STA 21+01.95 TO STA 21.52.65

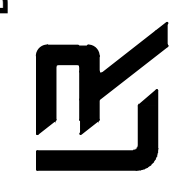


**TYPICAL SECTION - KANIS ROAD**

STA 21+52.65 TO STA 21+85.00

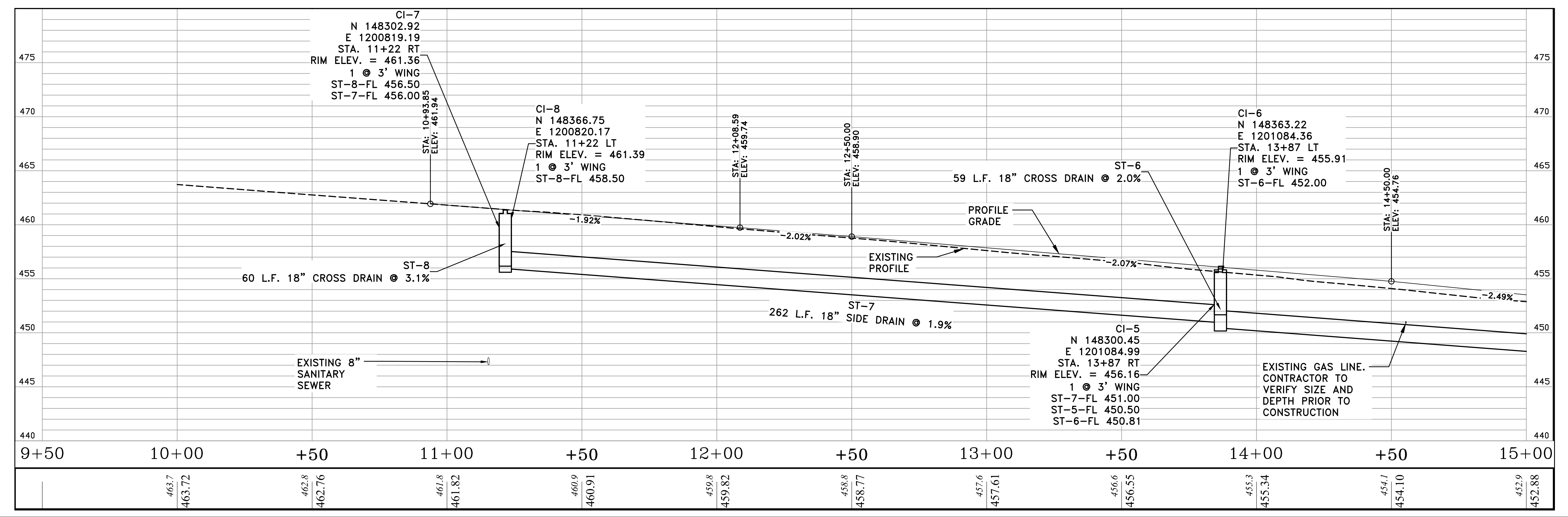
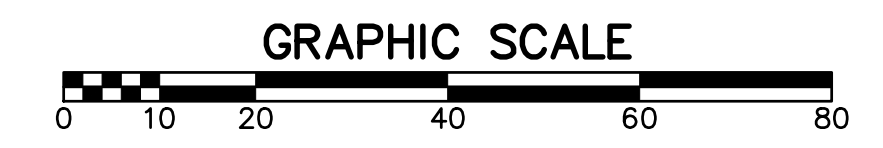
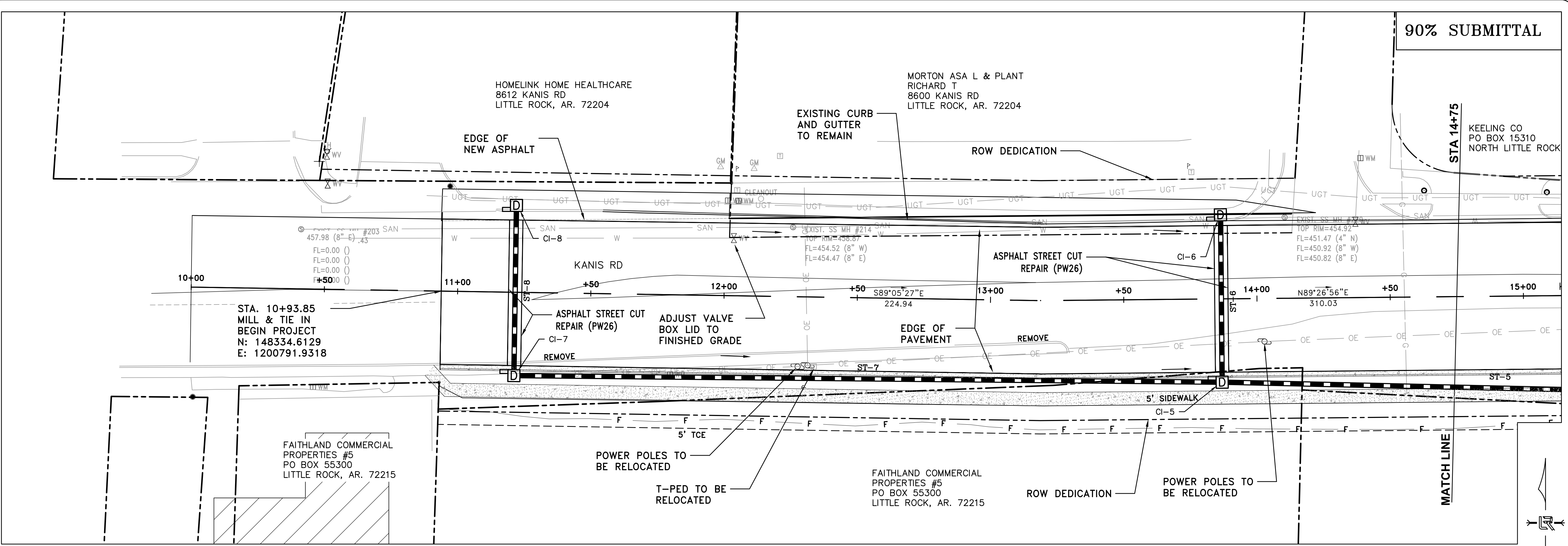
CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD IMPROVEMENTS  
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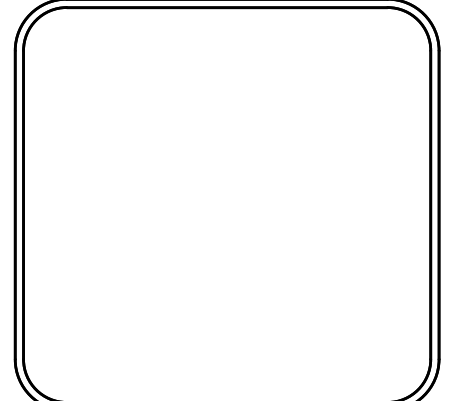
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SHEET NO.	C5

REVISIONS	DATE



CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD IMPROVEMENTS  
P&P SHEET 1

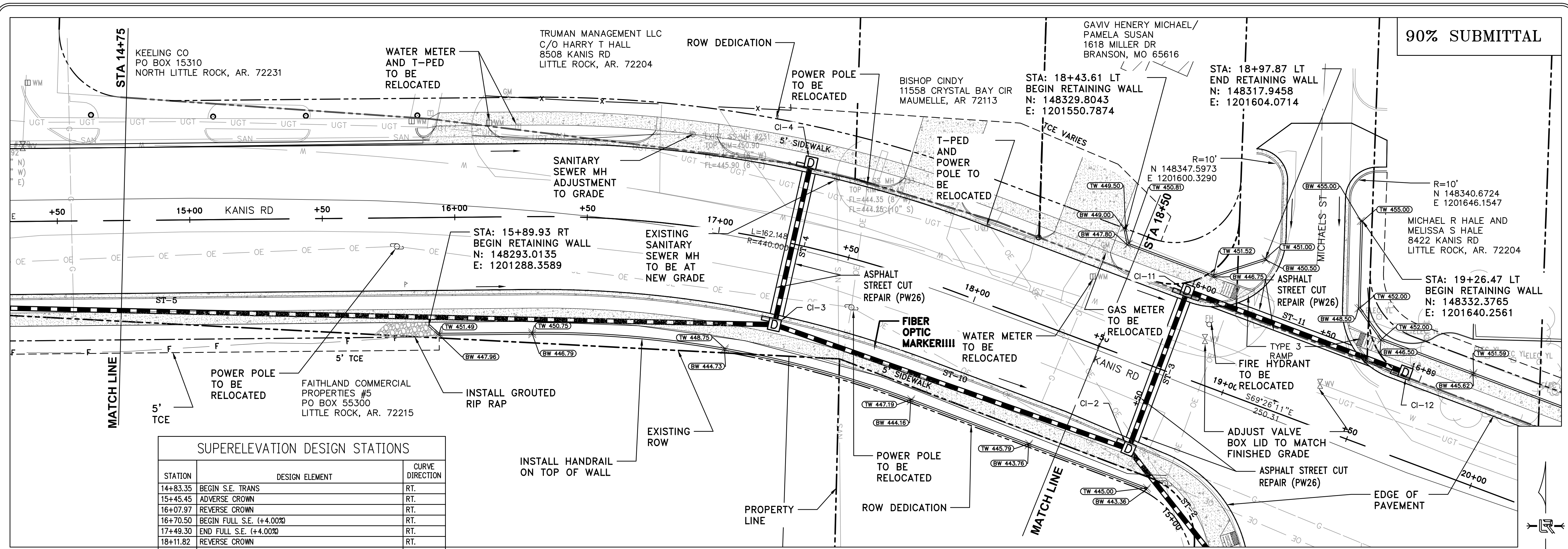
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CIVIL ENGINEERING  
701 W. MARKHAM  
LITTLE ROCK, ARKANSAS 72201



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V: 1"=5'  
PROJECT NO.  
06-17-222B  
SHEET NO.  
C6



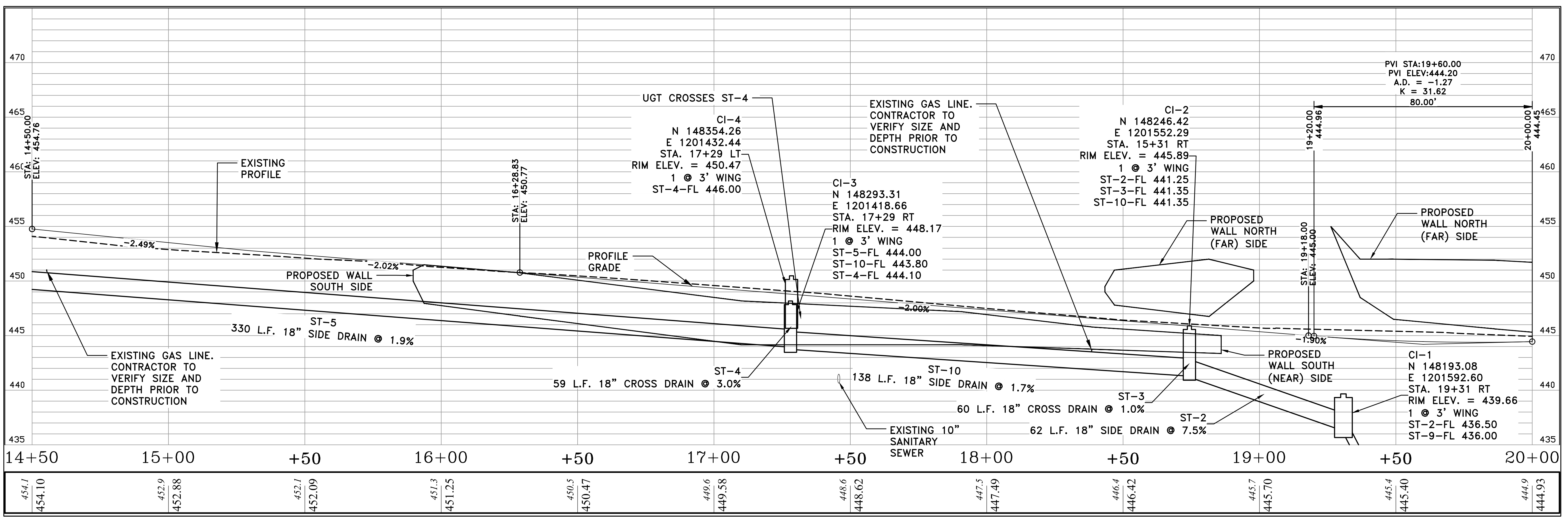
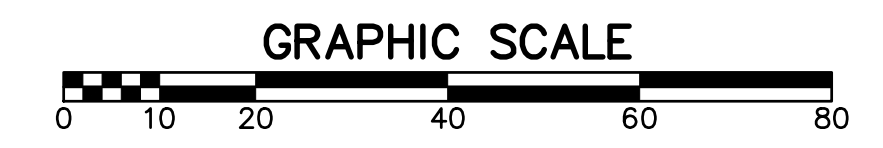
REVISIONS	DATE



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**SUPERELEVATION DESIGN STATIONS**

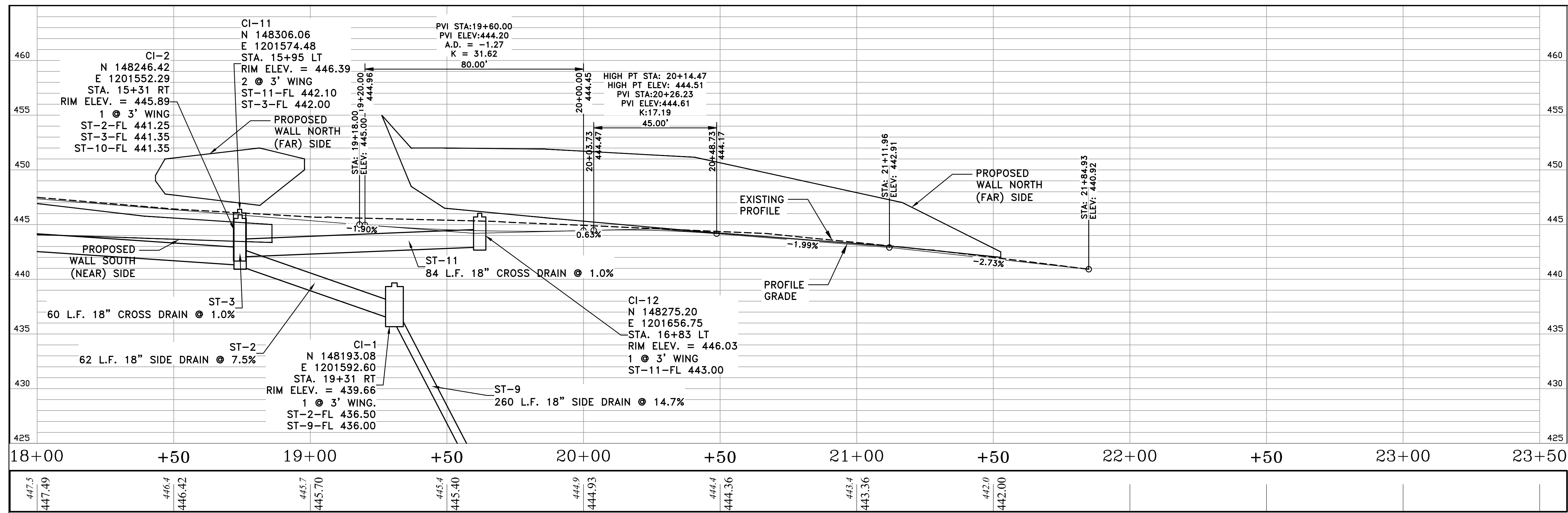
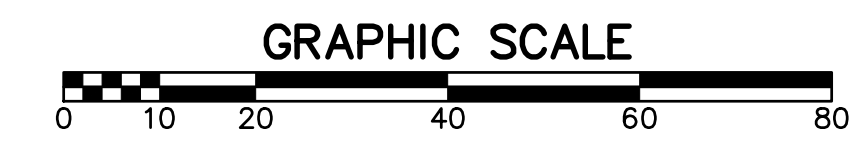
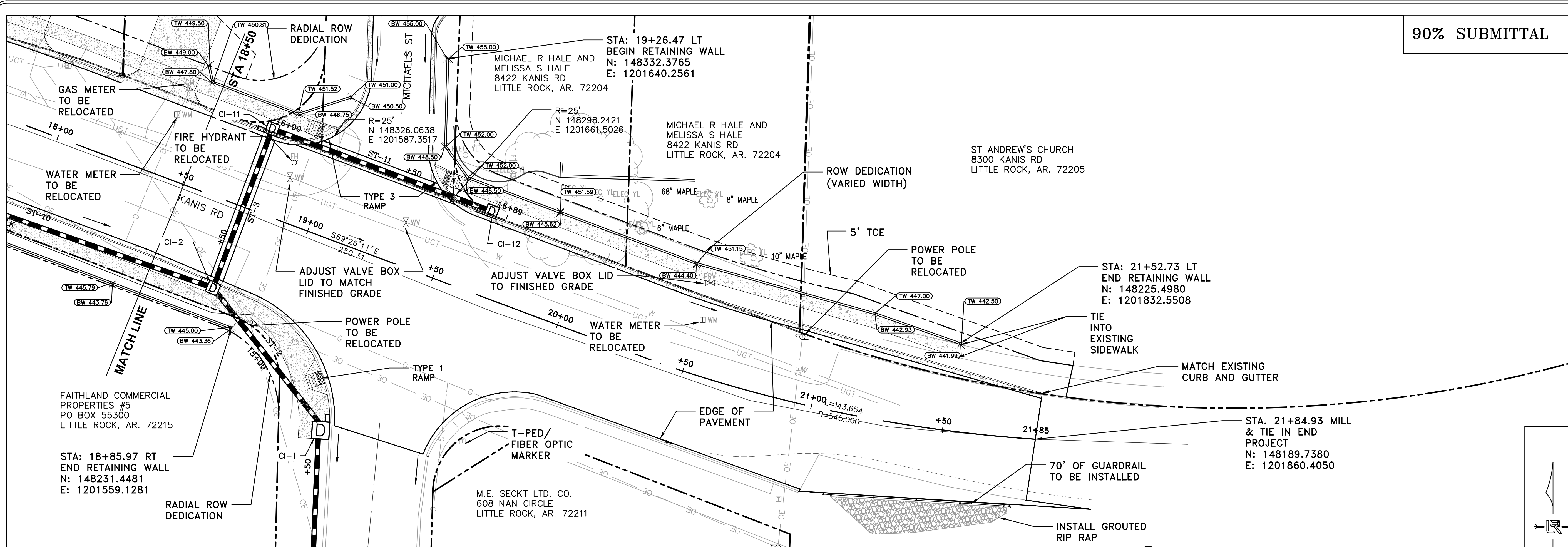
STATION	DESIGN ELEMENT	CURVE DIRECTION
14+83.35	BEGIN S.E. TRANS	RT.
15+45.45	ADVERSE CROWN	RT.
16+07.97	REVERSE CROWN	RT.
16+70.50	BEGIN FULL S.E. (+4.00%)	RT.
17+49.30	END FULL S.E. (+4.00%)	RT.
18+11.82	REVERSE CROWN	RT.
18+74.35	ADVERSE CROWN	RT.
19+36.45	END S.E. TRANS	RT.



CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD IMPROVEMENTS  
P&P SHEET 2

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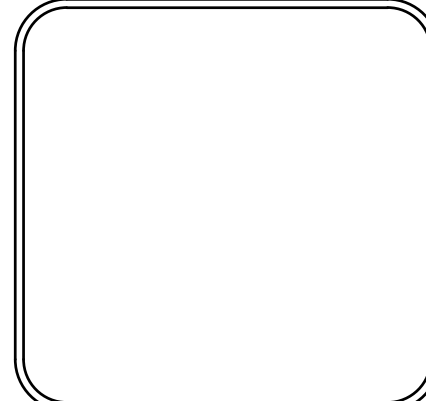
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06-17-222B  
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C7



REVISIONS	DATE

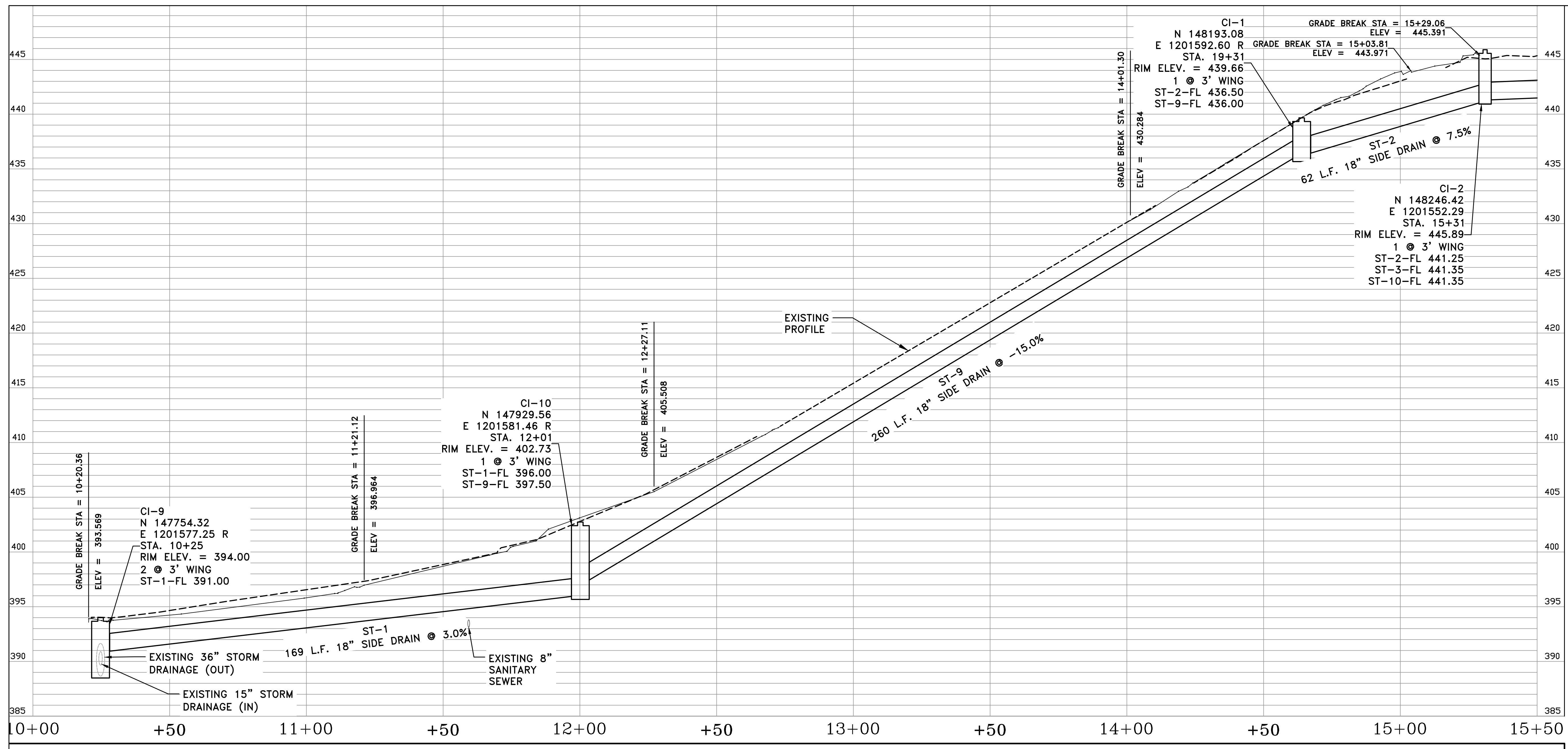
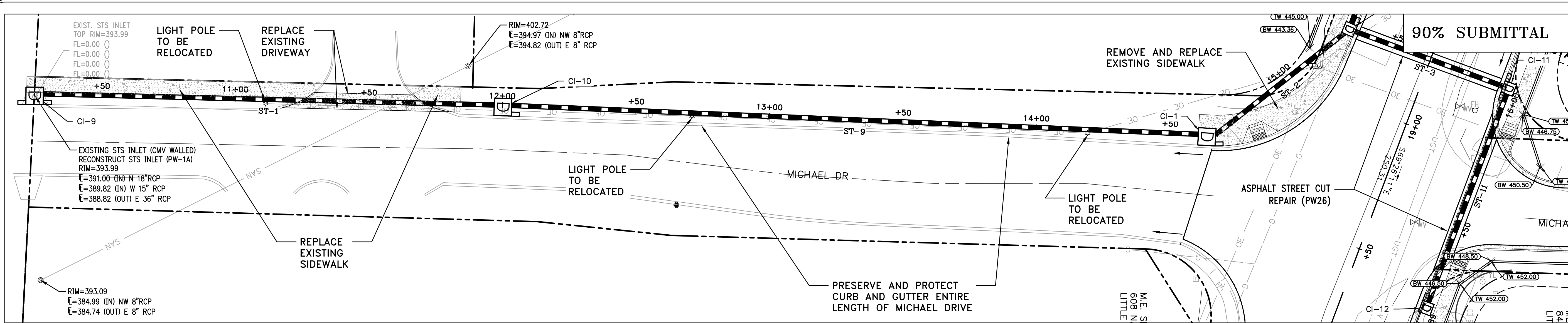
CITY OF LITTLE ROCK, ARKANSAS  
 KANIS ROAD IMPROVEMENTS  
 P&P SHEET 3

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 CIVIL ENGINEERING  
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 06-17-222B  
 SHEET NO.  
 C8



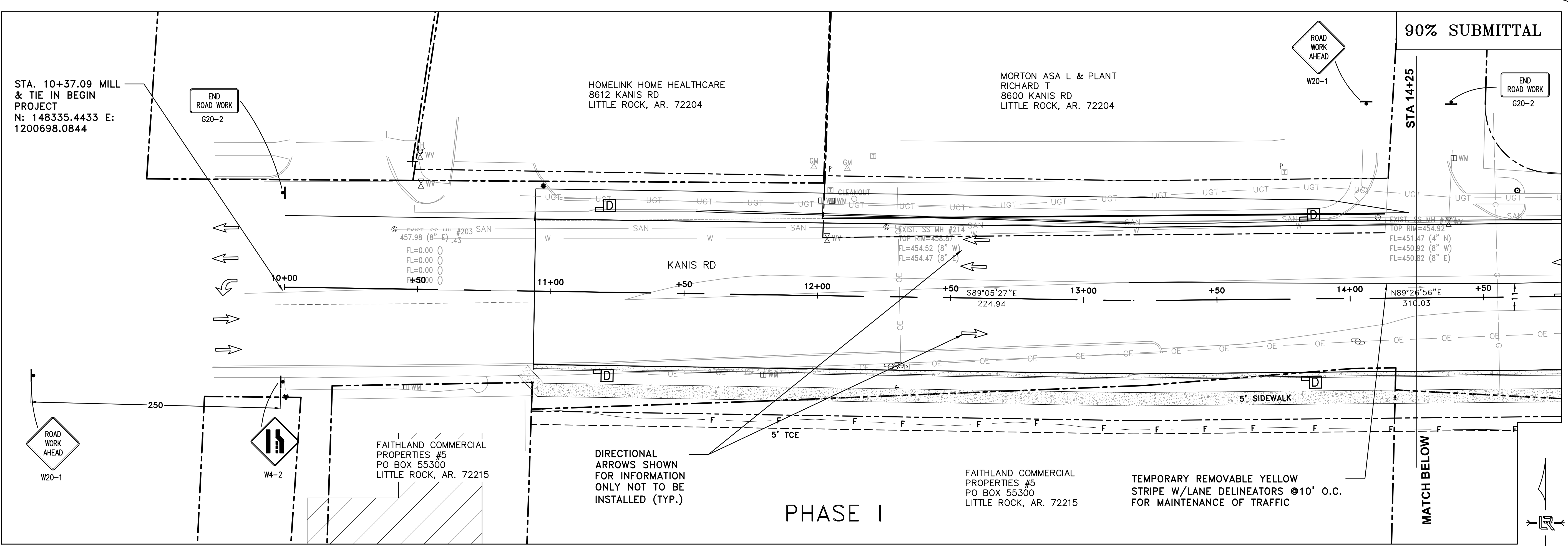


REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD IMPROVEMENTS  
P&P SHEET 4

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

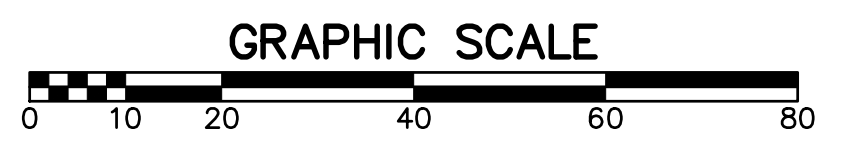
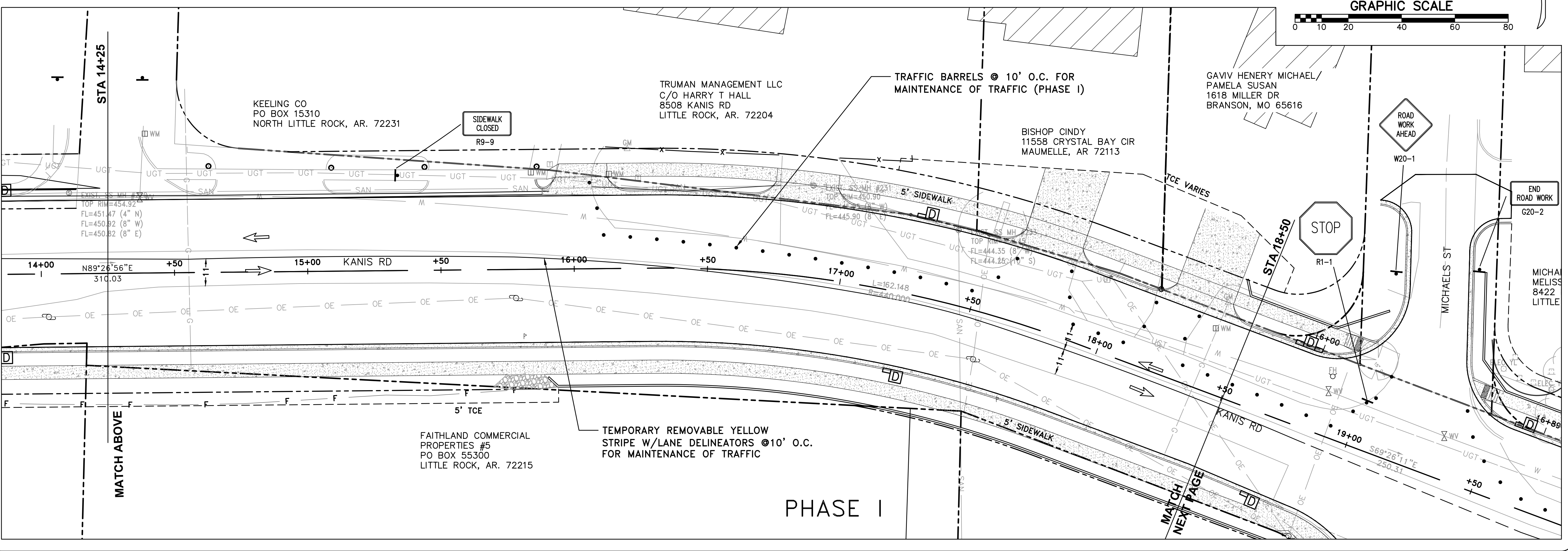
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<b>SHEET NO.</b> C9



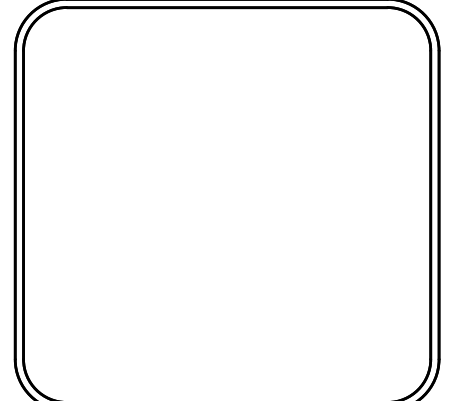
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REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 KANIS ROAD IMPROVEMENTS  
 MAINTENANCE OF TRAFFIC PHASE I SHEET 1

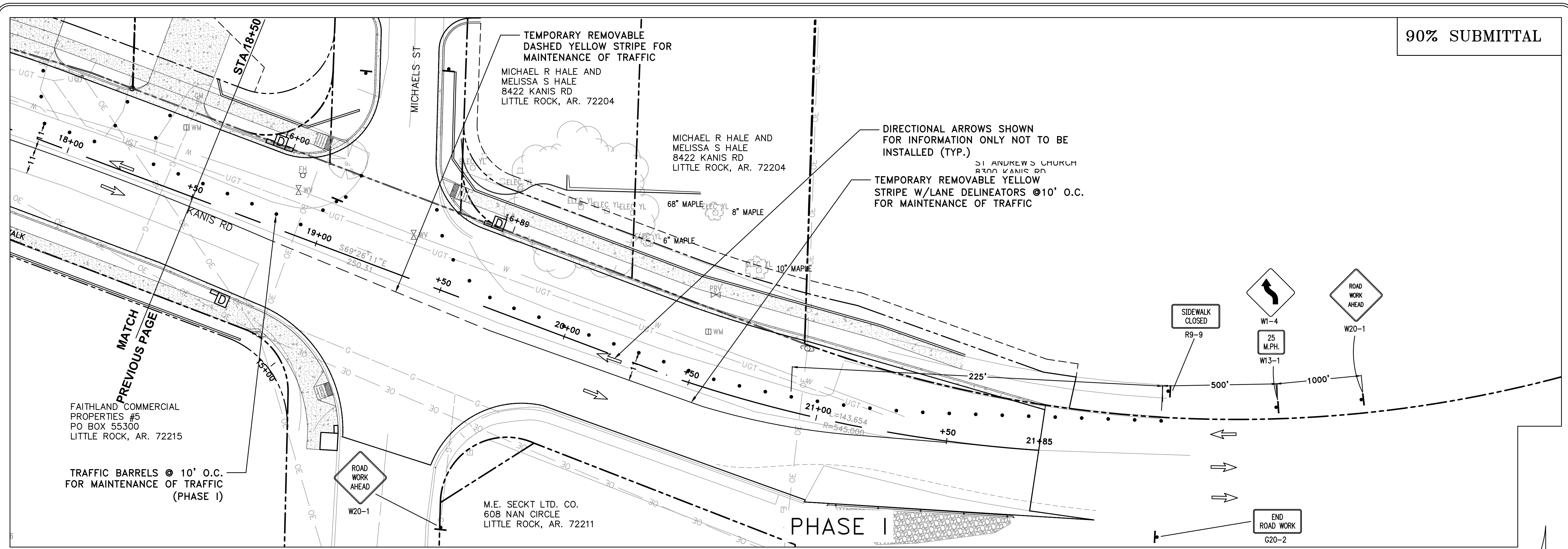


DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
 701 W. MARKHAM  
 LITTLE ROCK, ARKANSAS 72201



DRAWN BY	TH
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SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	06-17-222B
SHEET NO.	C10



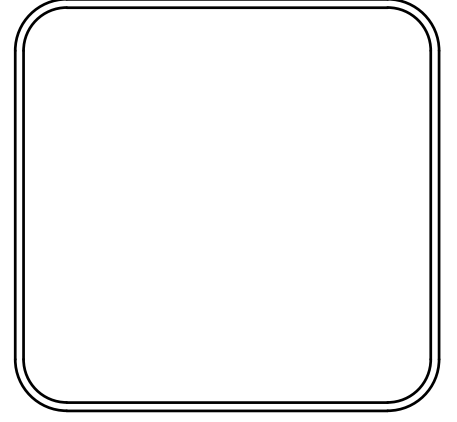


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REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 KANIS ROAD IMPROVEMENTS  
 MAINTENANCE OF TRAFFIC PHASE I SHEET 2

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



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 TH  
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 CHECKED  
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 DATE  
 08-06-2019  
 SCALE  
 H: 1"=20'  
 V: 1"=5'  
 PROJECT NO.  
 06-17-222B  
 SHEET NO.  
 C11

FAITHLAND COMMERCIAL  
 PROPERTIES #5  
 PO BOX 55300  
 LITTLE ROCK, AR. 72215

TRAFFIC BARRELS @ 10' O.C.  
 FOR MAINTENANCE OF TRAFFIC  
 (PHASE I)

M.E. SECKT LTD. CO.  
 608 NAN CIRCLE  
 LITTLE ROCK, AR. 72211

TEMPORARY REMOVABLE  
 DASHED YELLOW STRIPE FOR  
 MAINTENANCE OF TRAFFIC

MICHAEL R HALE AND  
 MELISSA S HALE  
 8422 KANIS RD  
 LITTLE ROCK, AR. 72204

DIRECTIONAL ARROWS SHOWN  
 FOR INFORMATION ONLY NOT TO BE  
 INSTALLED (TYP.)

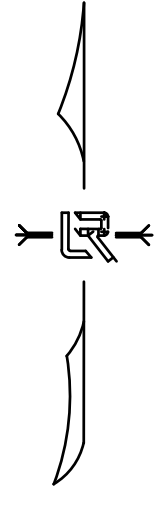
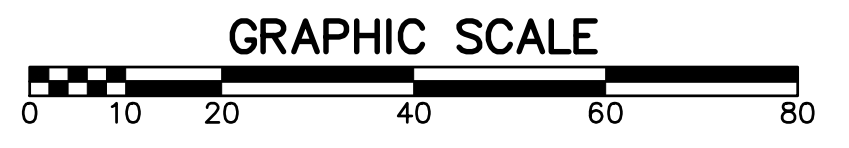
TEMPORARY REMOVABLE YELLOW  
 STRIPE W/LANE DELINEATORS @10' O.C.  
 FOR MAINTENANCE OF TRAFFIC

SIDEWALK  
 CLOSED  
 R9-9

W1-4  
 25  
 M.P.H.  
 W13-1

ROAD  
 WORK  
 AHEAD  
 W20-1

END  
 ROAD  
 WORK  
 G20-2



PHASE I

MATCH  
 PREVIOUS PAGE

KANIS RD

MICHAELS ST

STA 18+50

18+00

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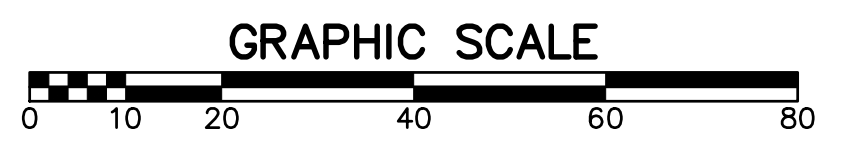
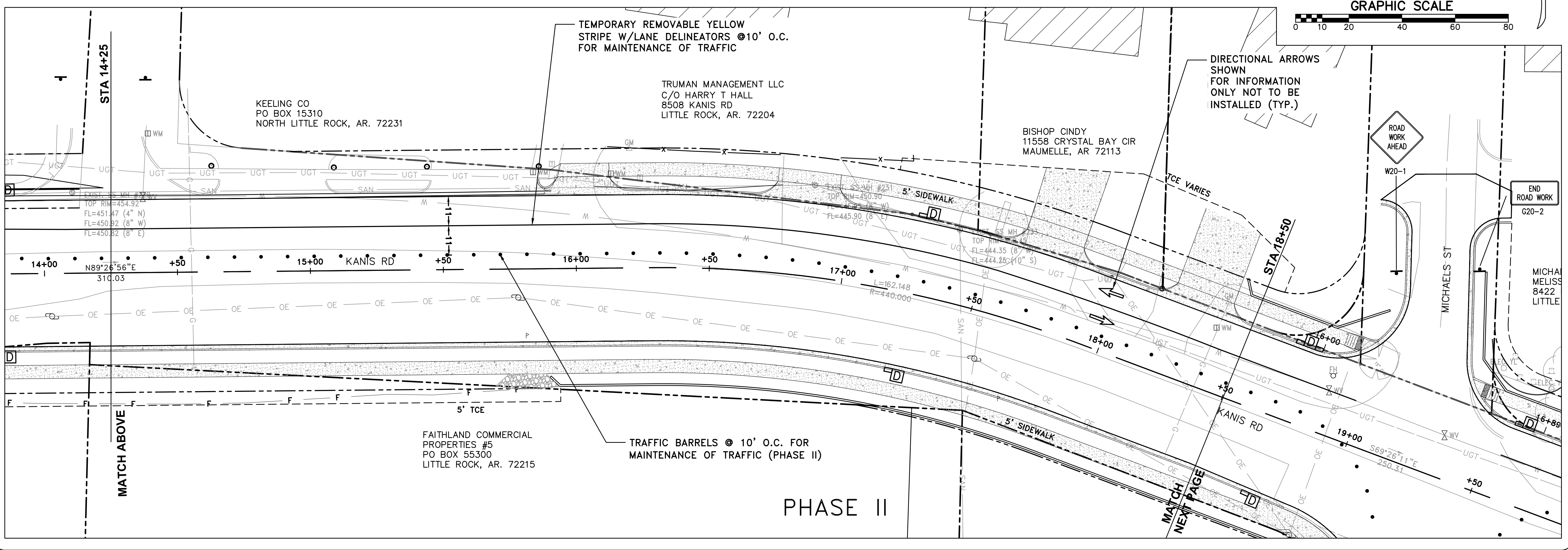
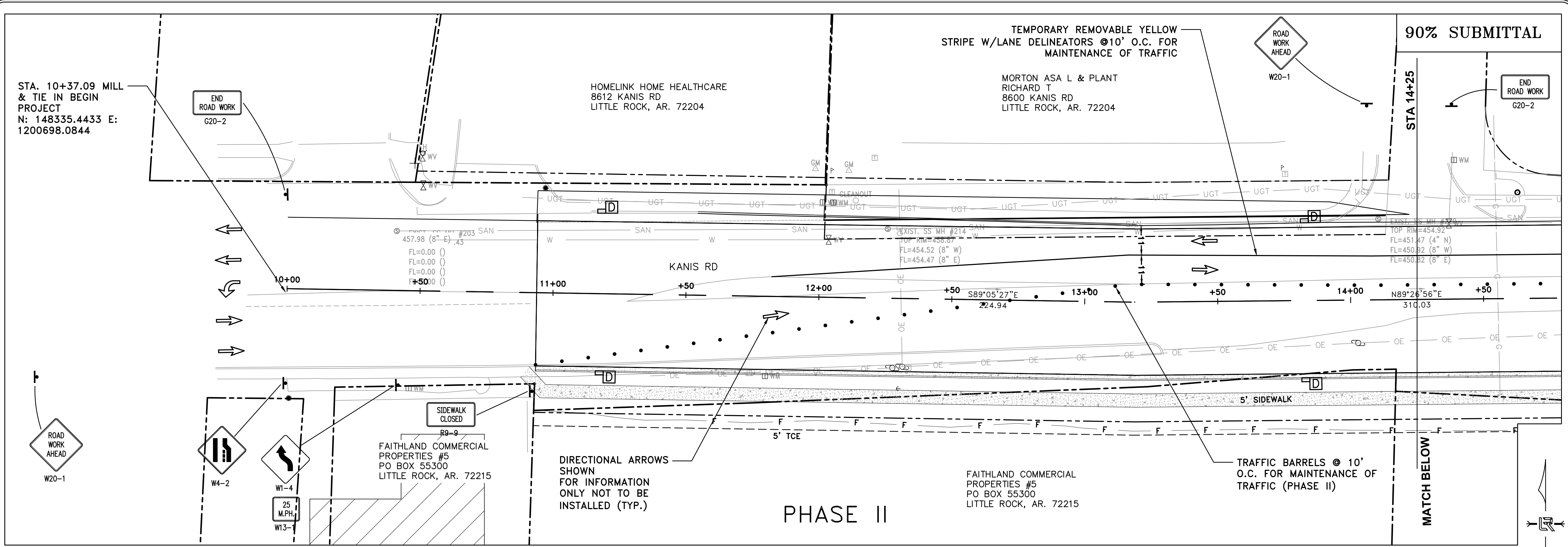
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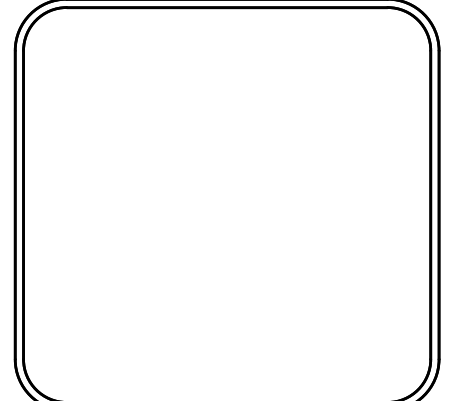
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REVISIONS	DATE

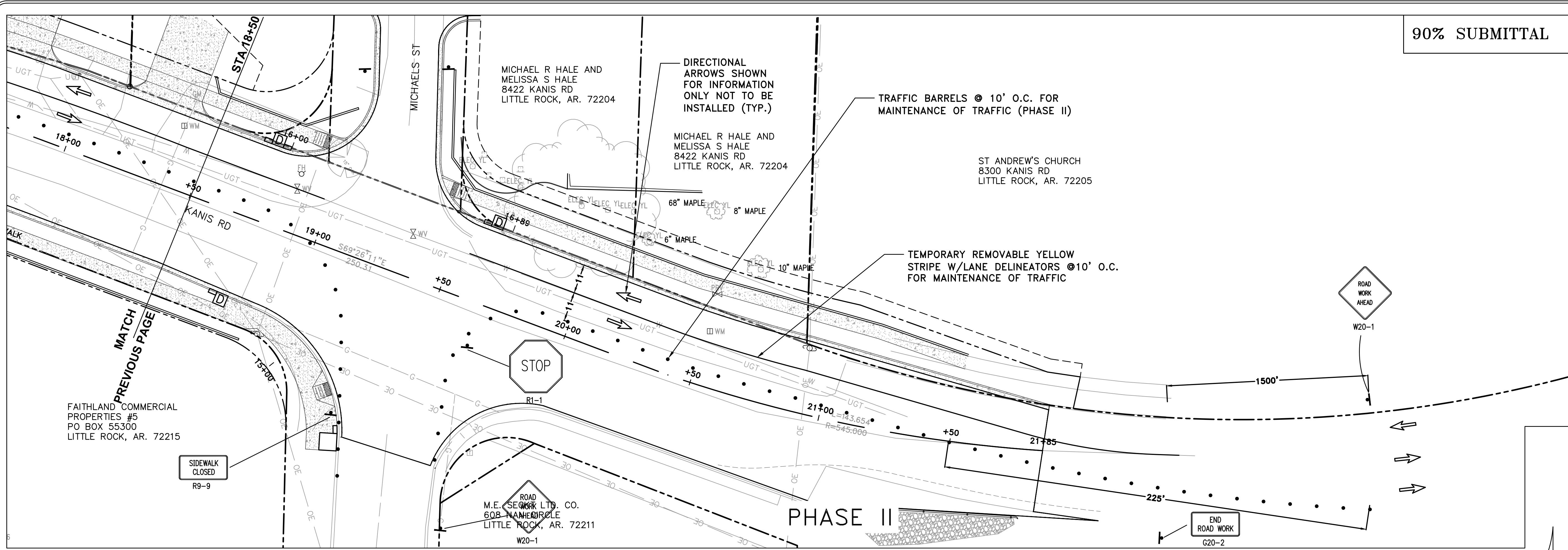
CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD IMPROVEMENTS  
MAINTENANCE OF TRAFFIC PHASE II SHEET 1

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



DRAWN BY	TH
DESIGNED	TDF
CHECKED	BAP
DATE	08-06-2019
SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	06-17-222B
SHEET NO.	C12



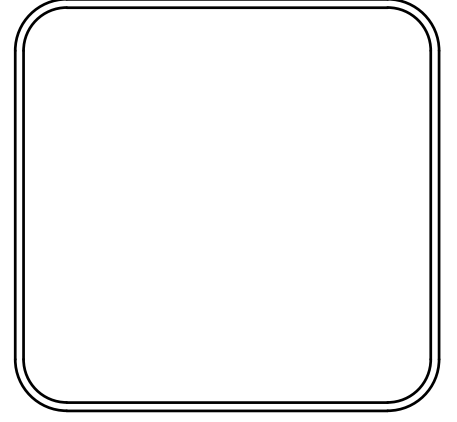


90% SUBMITTAL

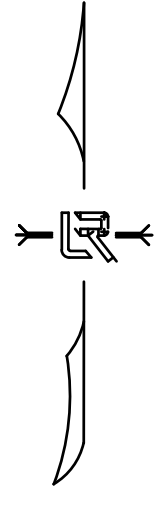
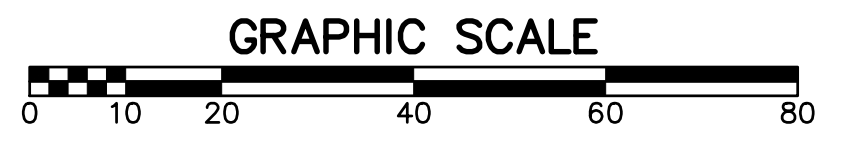
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 KANIS ROAD IMPROVEMENTS  
 MAINTENANCE OF TRAFFIC PHASE II SHEET 2

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



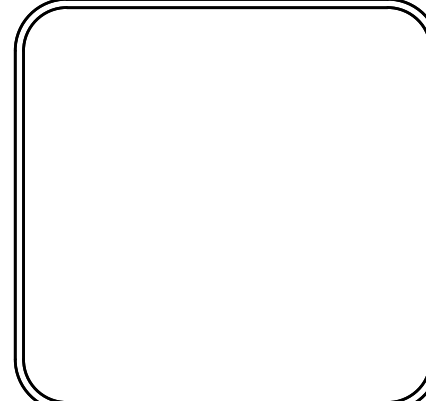
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DESIGNED	TDF
CHECKED	BAP
DATE	08-06-2019
SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	06-17-222B
SHEET NO.	C13



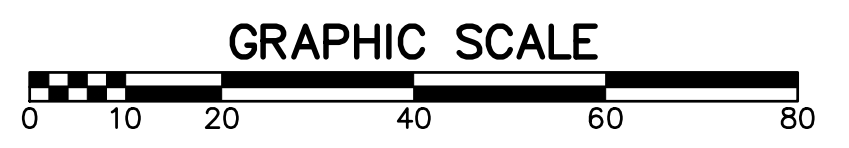
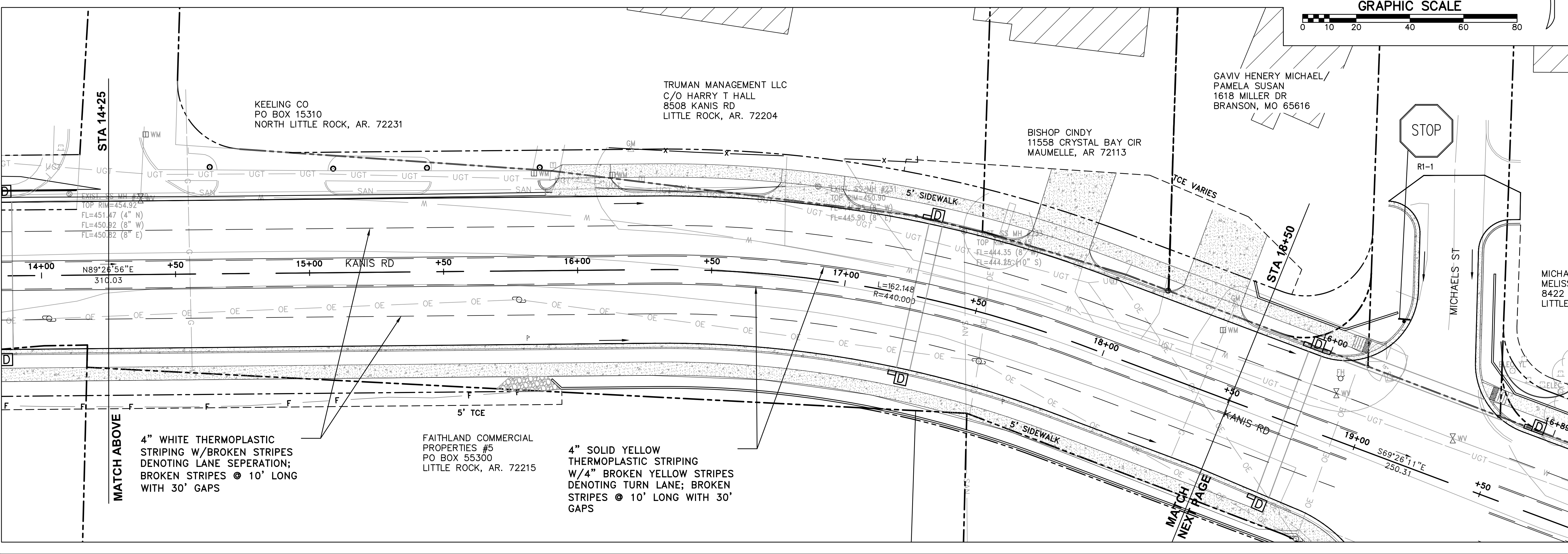
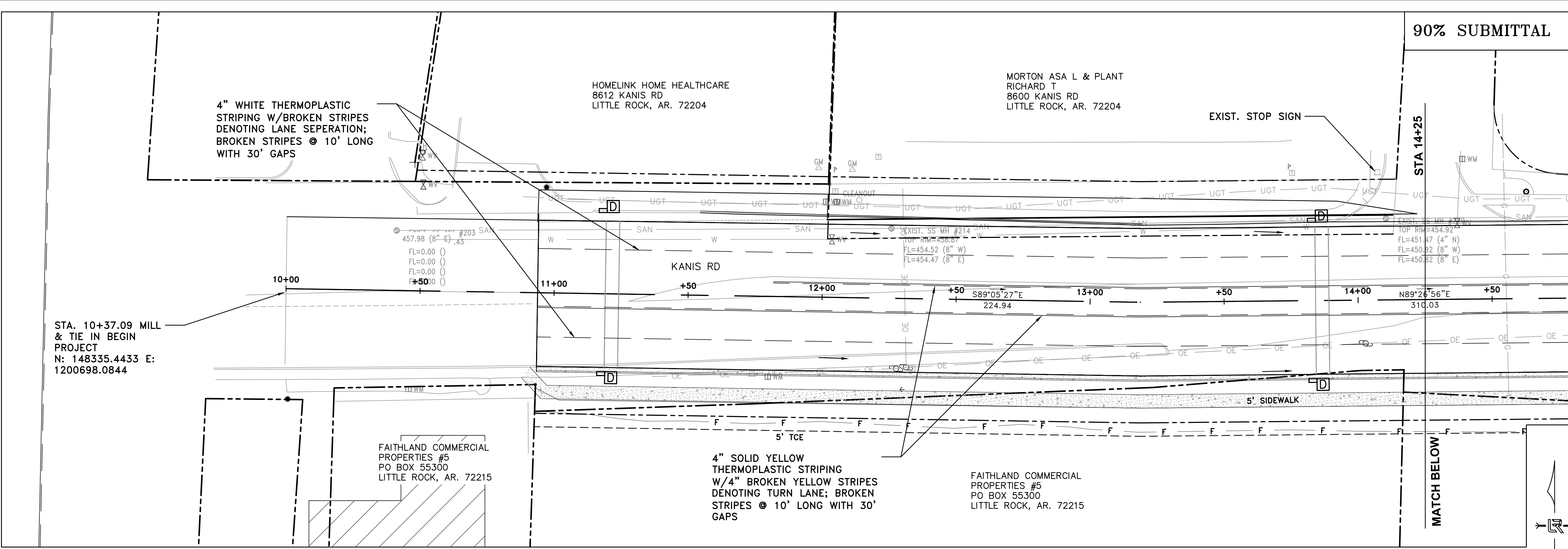
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD IMPROVEMENTS  
STRIPING AND SIGNAGE SHEET 1

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

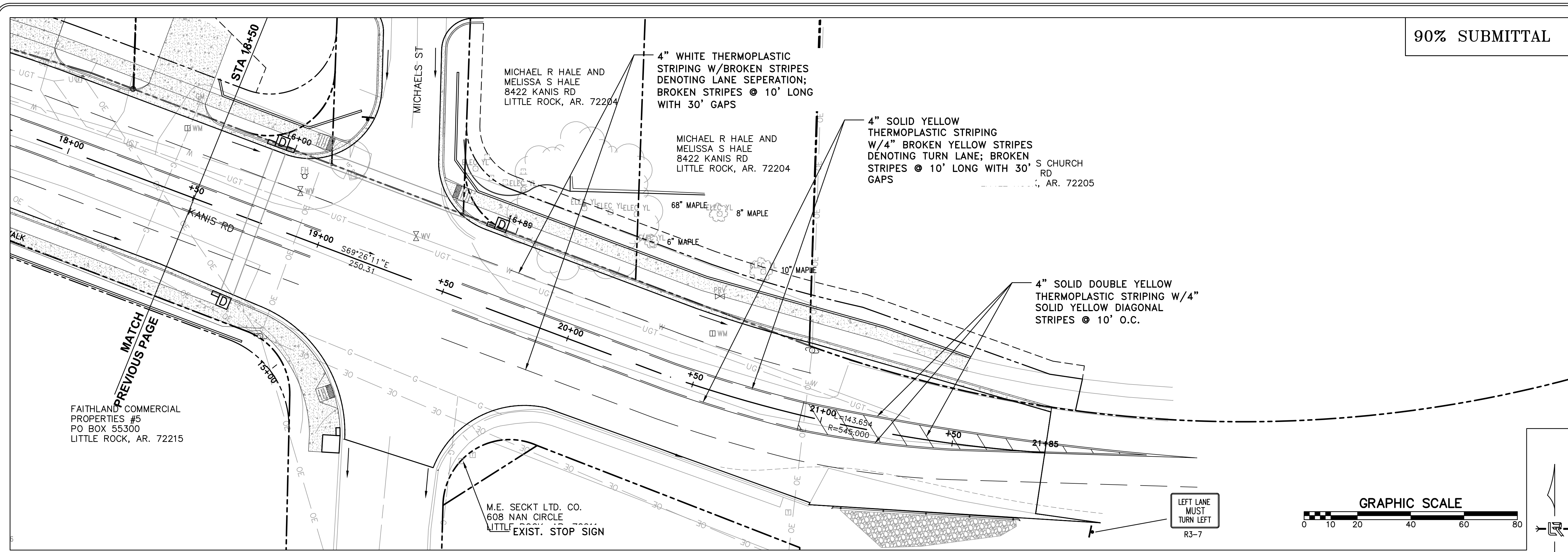


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<b>DESIGNED</b>	TDF
<b>CHECKED</b>	BAP
<b>DATE</b>	08-06-2019
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<b>PROJECT NO.</b>	06-17-222B
<b>SHEET NO.</b>	C14





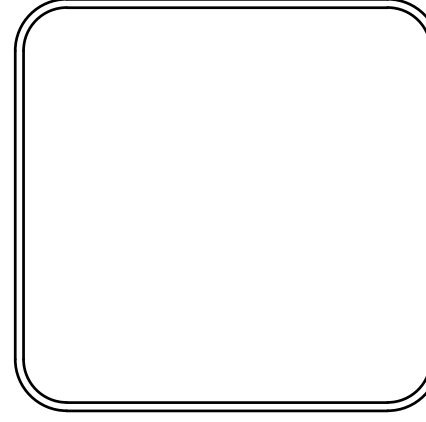
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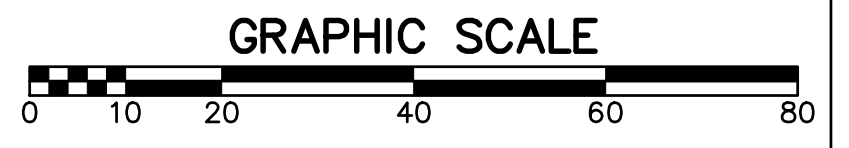
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 KANIS ROAD IMPROVEMENTS  
 STRIPING AND SIGNAGE SHEET 2

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



DRAWN BY	TH
DESIGNED	TDF
CHECKED	BAP
DATE	08-06-2019
SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	06-17-222B
SHEET NO.	C15



LEFT LANE MUST TURN LEFT  
 R3-7

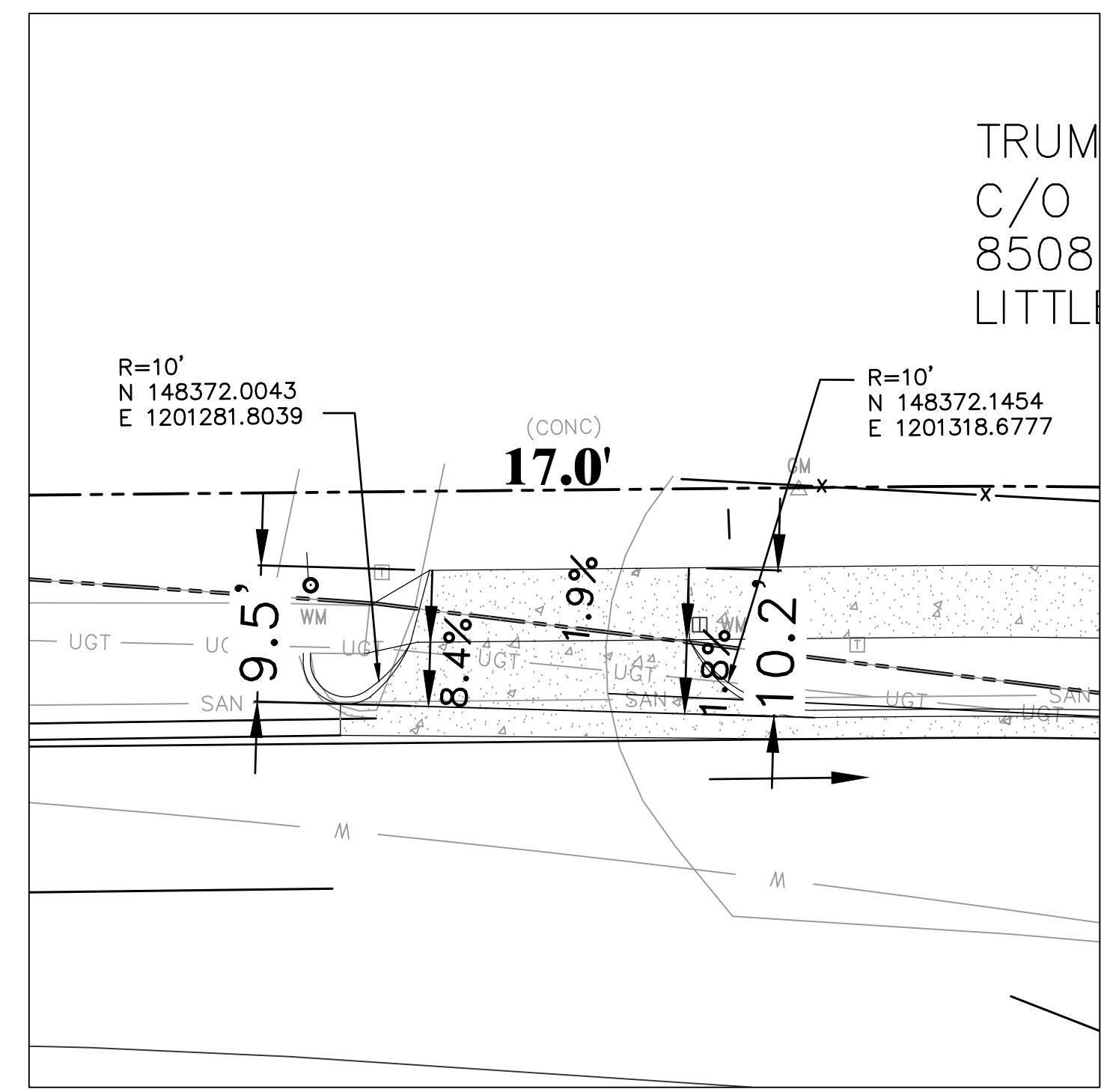
M.E. SECKT LTD. CO.  
 608 NAN CIRCLE  
 LITTLE ROCK, AR. 72204  
 EXIST. STOP SIGN

FAITHLAND COMMERCIAL PROPERTIES #5  
 PO BOX 55300  
 LITTLE ROCK, AR. 72215

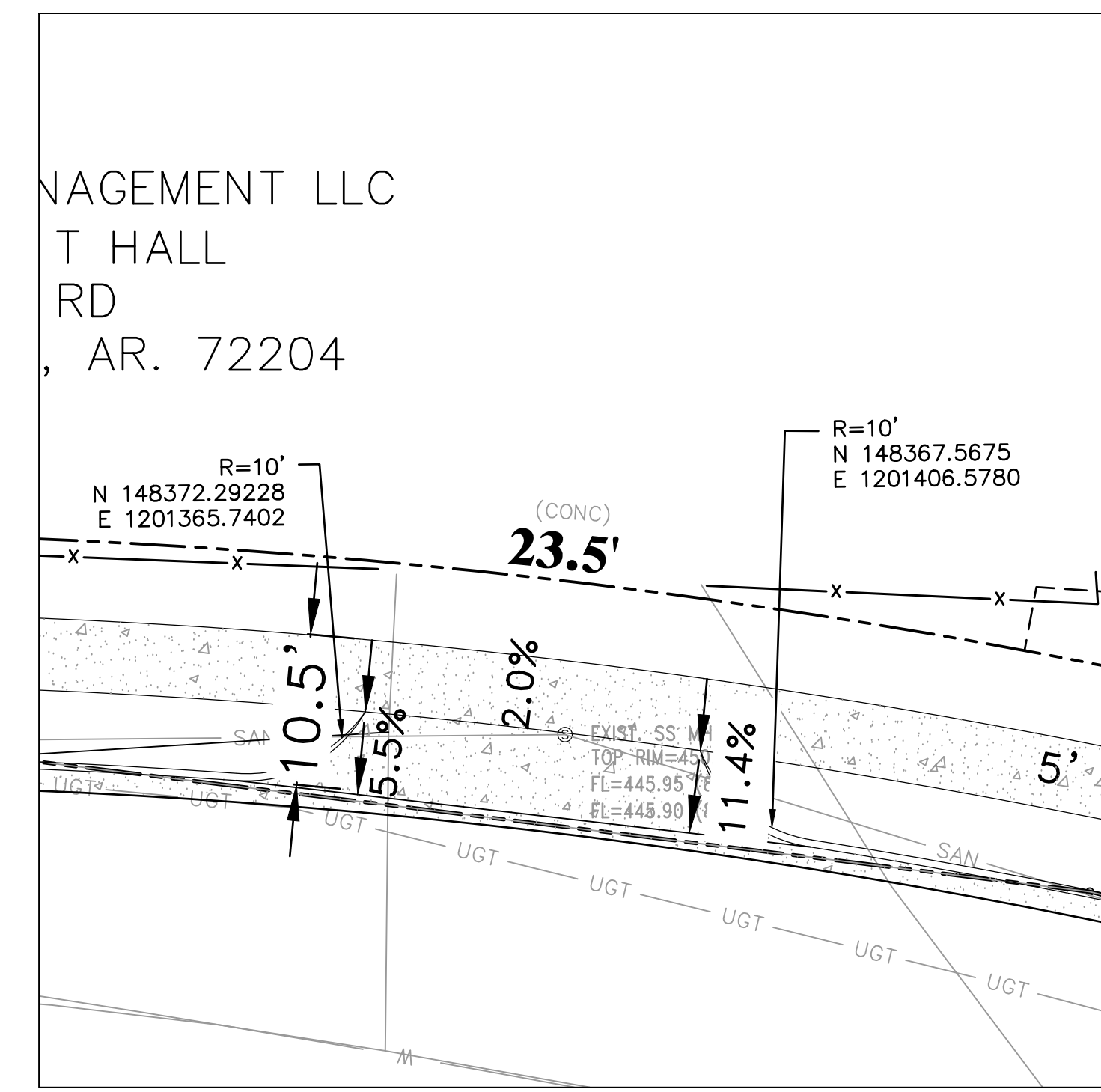
MATCH PREVIOUS PAGE

90% SUBMITTAL

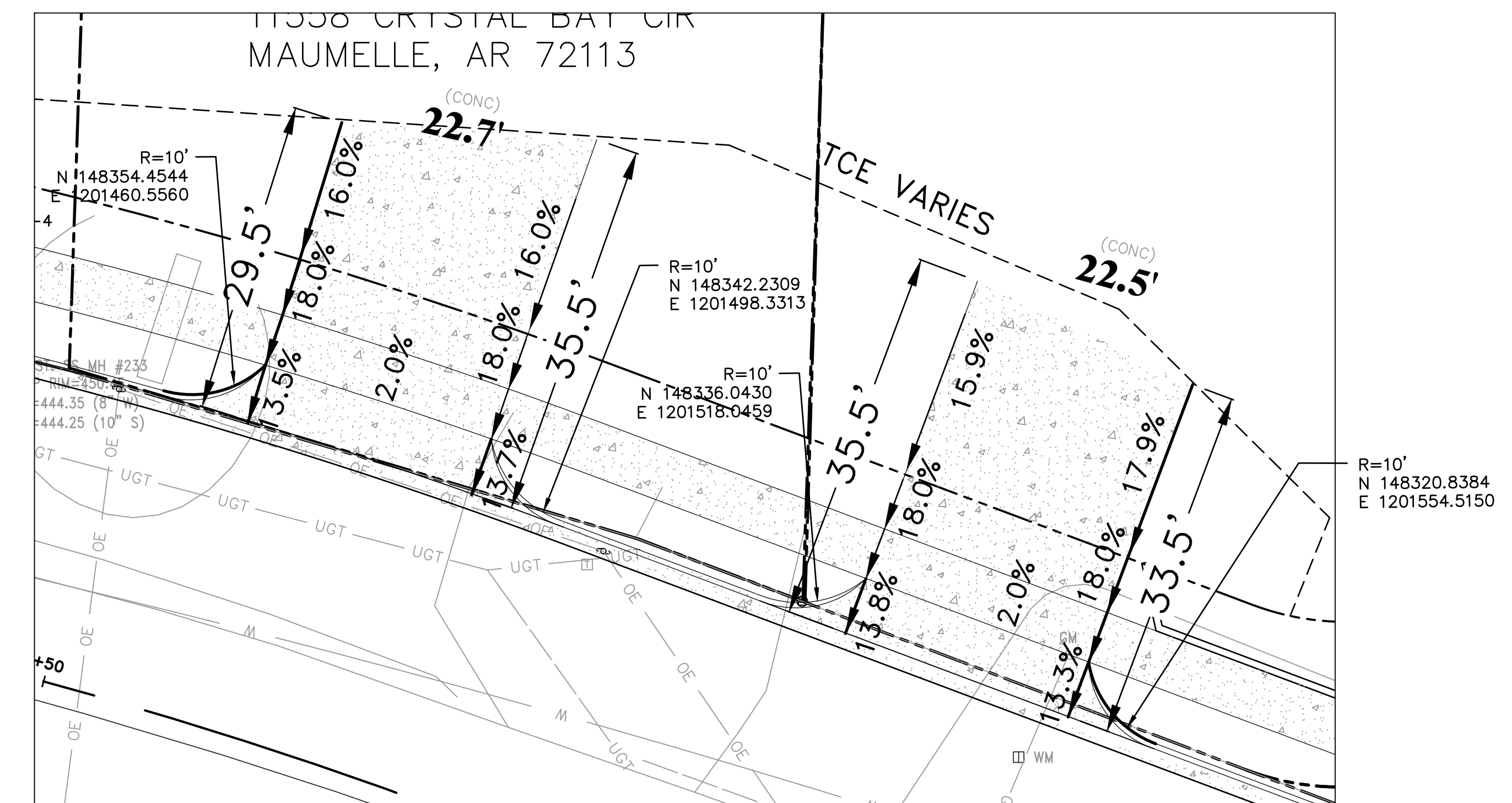
REVISIONS	DATE



STA: 16+00 LT

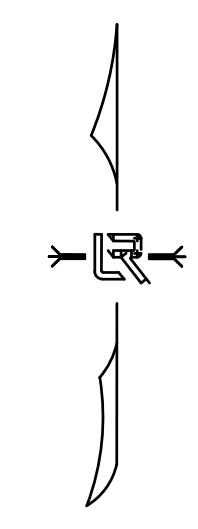
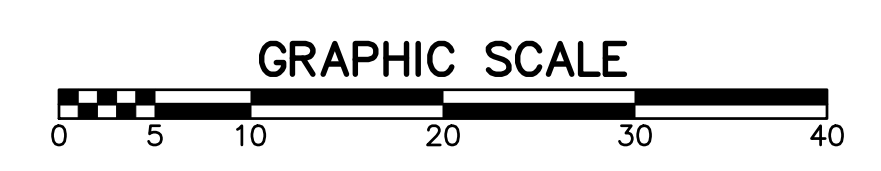


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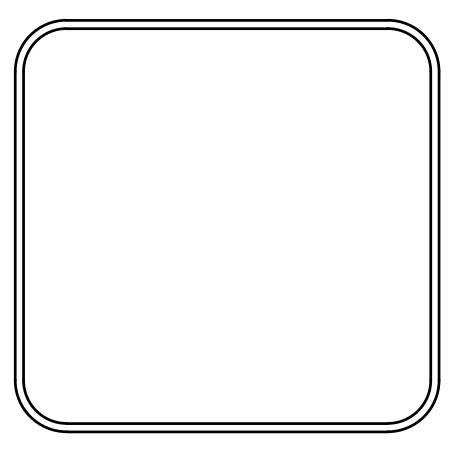
STA: 17+70 LT

STA: 18+30 LT



CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD IMPROVEMENTS  
DRIVEWAY GRADING

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



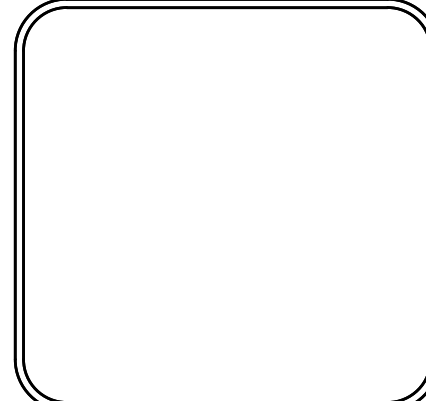
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DESIGNED  
TDF  
CHECKED  
BAP  
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08-06-2019  
SCALE  
H: 1"=10'  
PROJECT NO.  
06-17-222B  
SHEET NO.  
C16



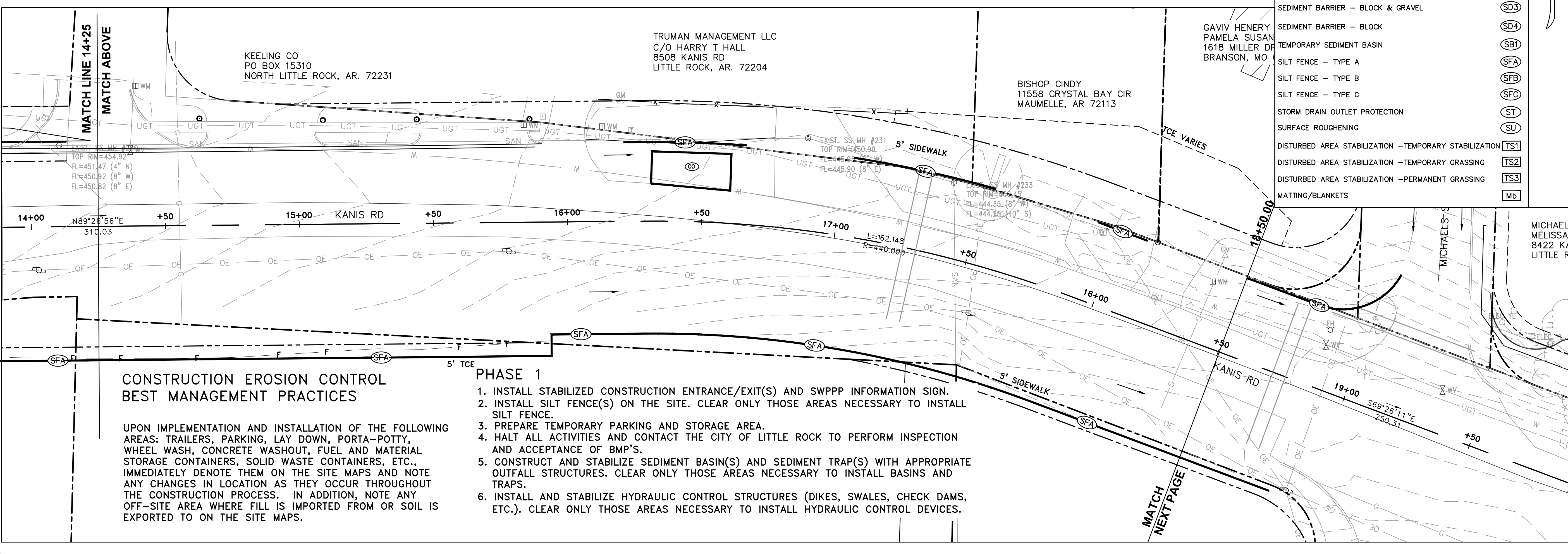
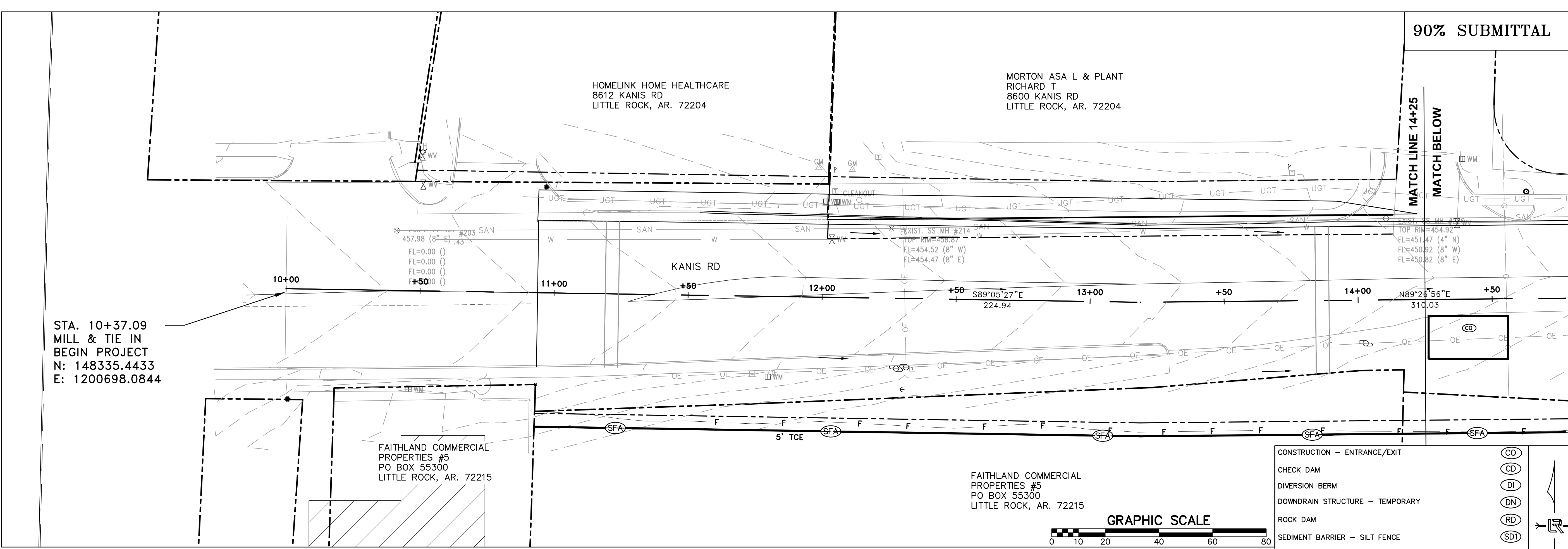
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 KANIS ROAD IMPROVEMENTS  
 EROSION CONTROL PH I SHEET 1

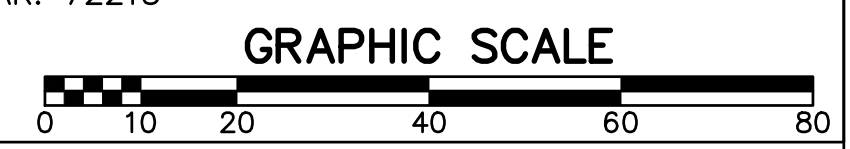
DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
 701 W. MARKHAM  
 LITTLE ROCK, ARKANSAS 72201



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 CHECKED  
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 DATE  
 08-06-2019  
 SCALE  
 H: 1"=20'  
 PROJECT NO.  
 06-17-222B  
 SHEET NO.  
 C17



CONSTRUCTION - ENTRANCE/EXIT	(CO)
CHECK DAM	(CD)
DIVERSION BERM	(DI)
DOWNDRAIN STRUCTURE - TEMPORARY	(DN)
ROCK DAM	(RD)
SEDIMENT BARRIER - SILT FENCE	(SD1)
SEDIMENT BARRIER - GRAVEL RING	(SD2)
SEDIMENT BARRIER - BLOCK & GRAVEL	(SD3)
SEDIMENT BARRIER - BLOCK	(SD4)
TEMPORARY SEDIMENT BASIN	(SBI)
SILT FENCE - TYPE A	(SFA)
SILT FENCE - TYPE B	(SFB)
SILT FENCE - TYPE C	(SFC)
STORM DRAIN OUTLET PROTECTION	(ST)
SURFACE ROUGHENING	(SU)
DISTURBED AREA STABILIZATION - TEMPORARY STABILIZATION	(TS1)
DISTURBED AREA STABILIZATION - TEMPORARY GRASSING	(TS2)
DISTURBED AREA STABILIZATION - PERMANENT GRASSING	(TS3)
MATTING/BLANKETS	(Mb)



**CONSTRUCTION EROSION CONTROL BEST MANAGEMENT PRACTICES**

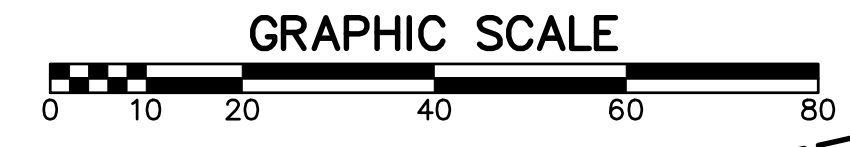
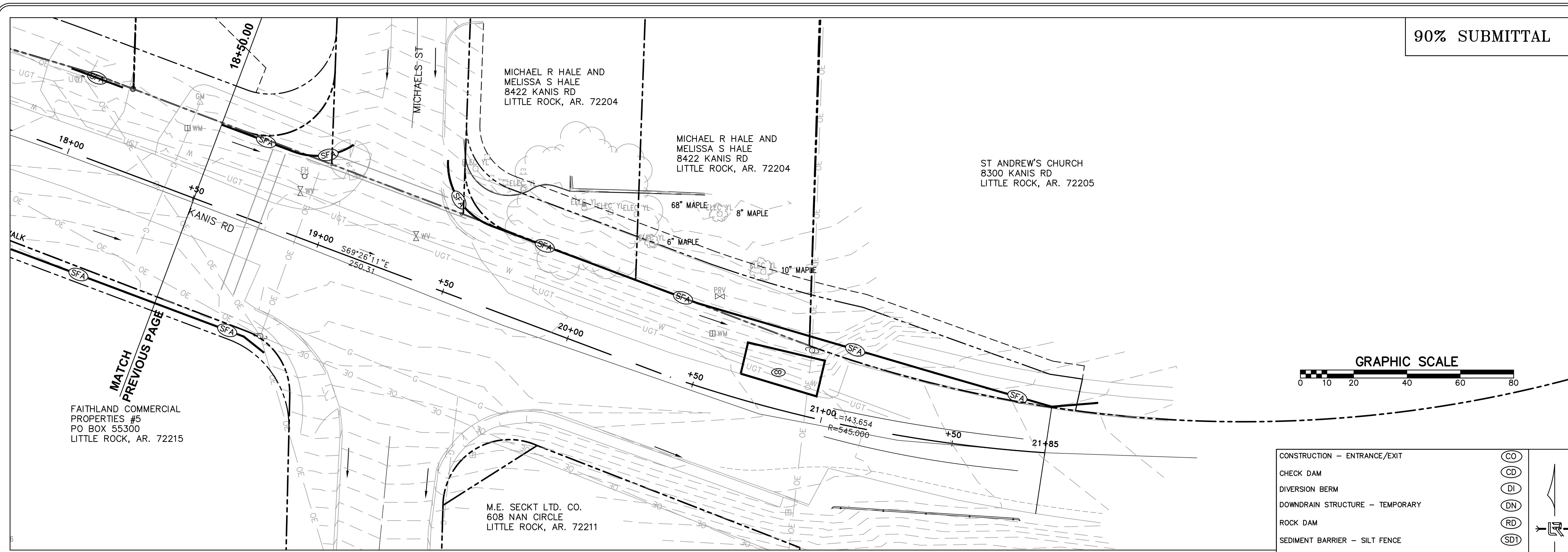
UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILERS, PARKING, LAY DOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. IN ADDITION, NOTE ANY OFF-SITE AREA WHERE FILL IS IMPORTED FROM OR SOIL IS EXPORTED TO ON THE SITE MAPS.

**PHASE 1**

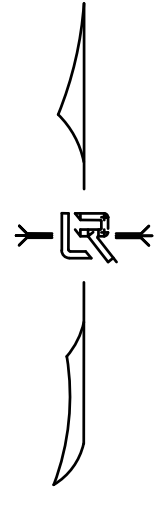
1. INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT(S) AND SWPPP INFORMATION SIGN.
2. INSTALL SILT FENCE(S) ON THE SITE. CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SILT FENCE.
3. PREPARE TEMPORARY PARKING AND STORAGE AREA.
4. HALT ALL ACTIVITIES AND CONTACT THE CITY OF LITTLE ROCK TO PERFORM INSPECTION AND ACCEPTANCE OF BMP'S.
5. CONSTRUCT AND STABILIZE SEDIMENT BASIN(S) AND SEDIMENT TRAP(S) WITH APPROPRIATE OUTFALL STRUCTURES. CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL BASINS AND TRAPS.
6. INSTALL AND STABILIZE HYDRAULIC CONTROL STRUCTURES (DIKES, SWALES, CHECK DAMS, ETC.). CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL HYDRAULIC CONTROL DEVICES.

REVISIONS	DATE

90% SUBMITTAL

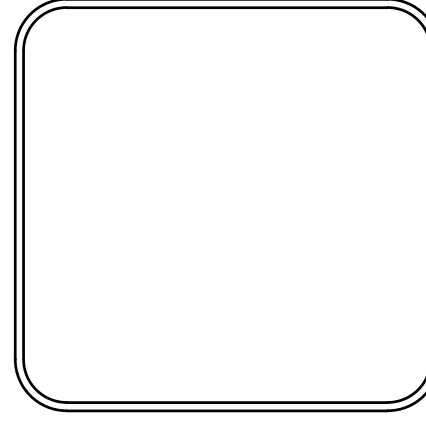


CONSTRUCTION - ENTRANCE/EXIT	(CO)
CHECK DAM	(CD)
DIVERSION BERM	(DI)
DOWNDRAIN STRUCTURE - TEMPORARY	(DN)
ROCK DAM	(RD)
SEDIMENT BARRIER - SILT FENCE	(SD1)
SEDIMENT BARRIER - GRAVEL RING	(SD2)
SEDIMENT BARRIER - BLOCK & GRAVEL	(SD3)
SEDIMENT BARRIER - BLOCK	(SD4)
TEMPORARY SEDIMENT BASIN	(SBI)
SILT FENCE - TYPE A	(SFA)
SILT FENCE - TYPE B	(SFB)
SILT FENCE - TYPE C	(SFC)
STORM DRAIN OUTLET PROTECTION	(ST)
SURFACE ROUGHENING	(SU)
DISTURBED AREA STABILIZATION - TEMPORARY STABILIZATION	(TS1)
DISTURBED AREA STABILIZATION - TEMPORARY GRASSING	(TS2)
DISTURBED AREA STABILIZATION - PERMANENT GRASSING	(TS3)
MATTING/BANKETS	(Mb)



CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD IMPROVEMENTS  
EROSION CONTROL PH I SHEET 2

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



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TH  
DESIGNED  
TDF  
CHECKED  
BAP  
DATE  
08-06-2019  
SCALE  
H: 1"=20'  
PROJECT NO.  
06-17-222B  
SHEET NO.  
C18

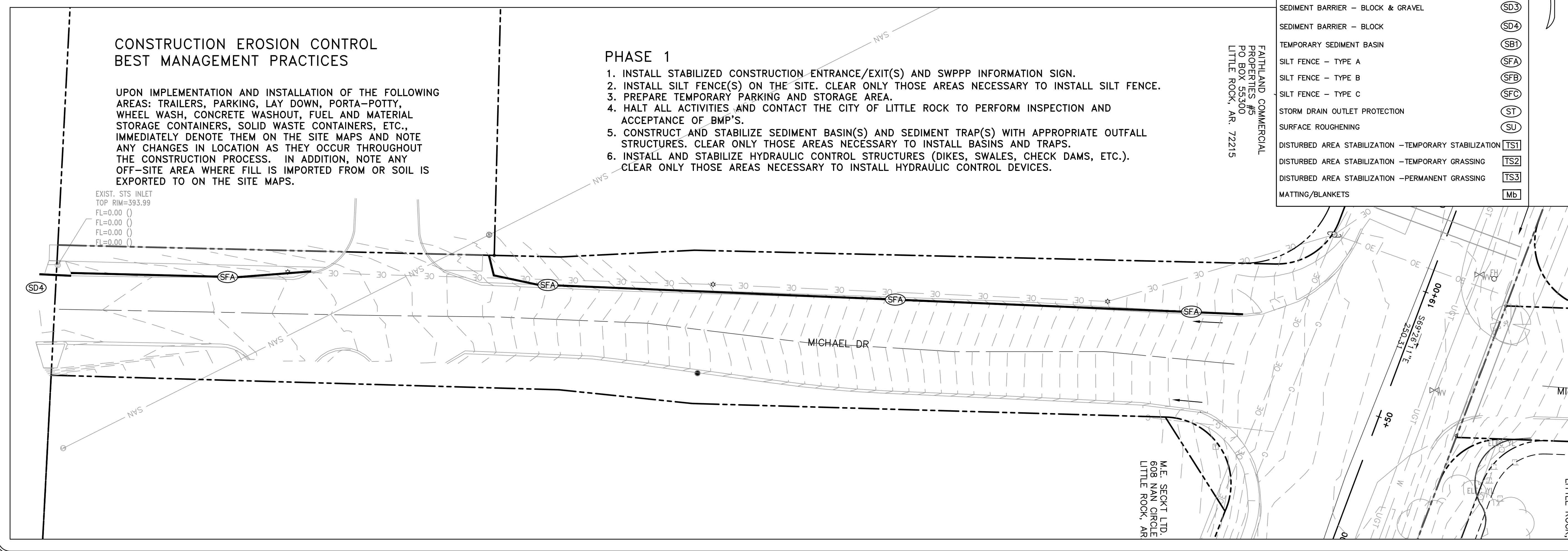
**CONSTRUCTION EROSION CONTROL BEST MANAGEMENT PRACTICES**

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILERS, PARKING, LAY DOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. IN ADDITION, NOTE ANY OFF-SITE AREA WHERE FILL IS IMPORTED FROM OR SOIL IS EXPORTED TO ON THE SITE MAPS.

**PHASE 1**

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT(S) AND SWPPP INFORMATION SIGN.
2. INSTALL SILT FENCE(S) ON THE SITE. CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SILT FENCE.
3. PREPARE TEMPORARY PARKING AND STORAGE AREA.
4. HALT ALL ACTIVITIES AND CONTACT THE CITY OF LITTLE ROCK TO PERFORM INSPECTION AND ACCEPTANCE OF BMP'S.
5. CONSTRUCT AND STABILIZE SEDIMENT BASIN(S) AND SEDIMENT TRAP(S) WITH APPROPRIATE OUTFALL STRUCTURES. CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL BASINS AND TRAPS.
6. INSTALL AND STABILIZE HYDRAULIC CONTROL STRUCTURES (DIKES, SWALES, CHECK DAMS, ETC.). CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL HYDRAULIC CONTROL DEVICES.

FAITHLAND COMMERCIAL PROPERTIES #5  
PO BOX 55300  
LITTLE ROCK, AR. 72215

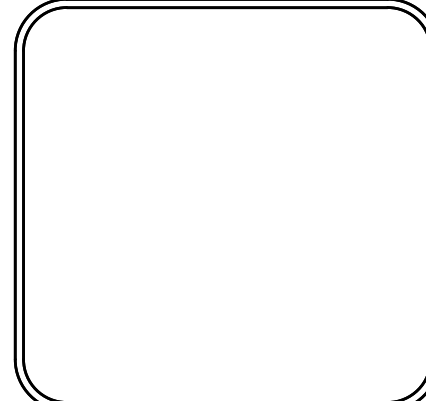




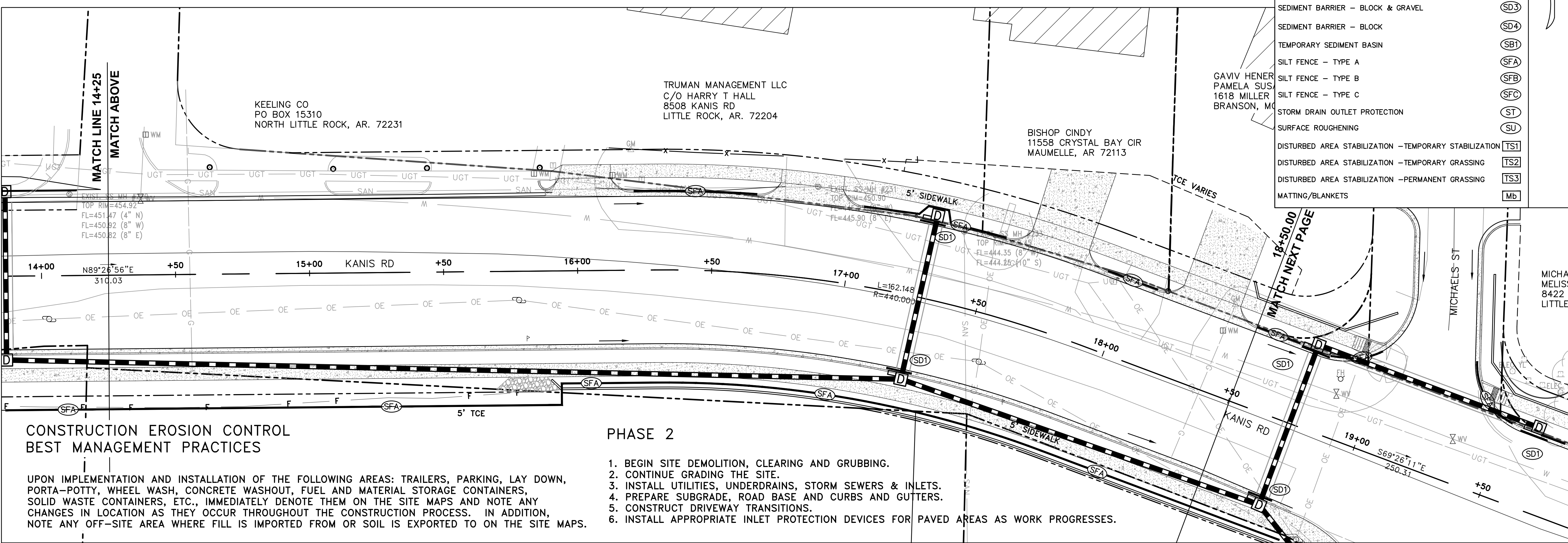
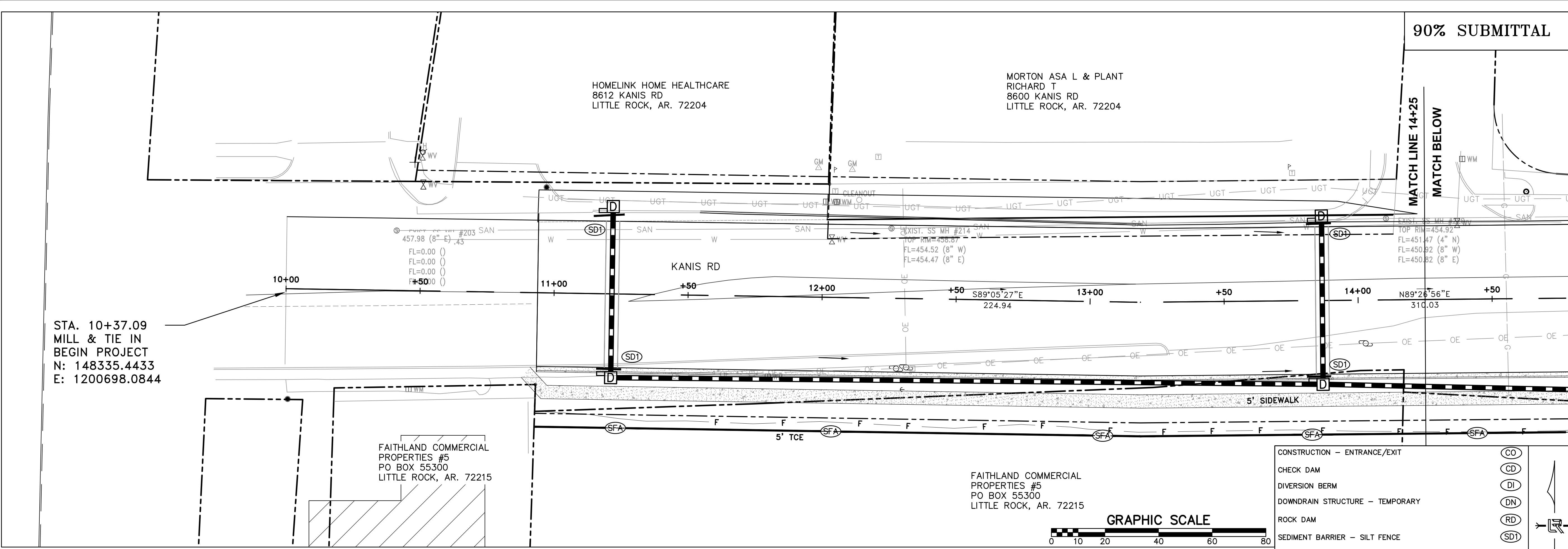
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 KANIS ROAD IMPROVEMENTS  
 EROSION CONTROL PH II SHEET 1

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



DRAWN BY  
 TH  
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 CHECKED  
 BAP  
 DATE  
 08-06-2019  
 SCALE  
 H: 1"=20'  
 PROJECT NO.  
 06-17-222B  
 SHEET NO.  
 C19



- CONSTRUCTION - ENTRANCE/EXIT (CO)  
 CHECK DAM (CD)  
 DIVERSION BERM (DI)  
 DOWNDRAIN STRUCTURE - TEMPORARY (DN)  
 ROCK DAM (RD)  
 SEDIMENT BARRIER - SILT FENCE (SD1)  
 SEDIMENT BARRIER - GRAVEL RING (SD2)  
 SEDIMENT BARRIER - BLOCK & GRAVEL (SD3)  
 SEDIMENT BARRIER - BLOCK (SD4)  
 TEMPORARY SEDIMENT BASIN (SB1)  
 SILT FENCE - TYPE A (SFA)  
 SILT FENCE - TYPE B (SFB)  
 SILT FENCE - TYPE C (SFC)  
 STORM DRAIN OUTLET PROTECTION (ST)  
 SURFACE ROUGHENING (SU)  
 DISTURBED AREA STABILIZATION - TEMPORARY STABILIZATION (TS1)  
 DISTURBED AREA STABILIZATION - TEMPORARY GRASSING (TS2)  
 DISTURBED AREA STABILIZATION - PERMANENT GRASSING (TS3)  
 MATTING/BLANKETS (Mb)

**CONSTRUCTION EROSION CONTROL  
 BEST MANAGEMENT PRACTICES**

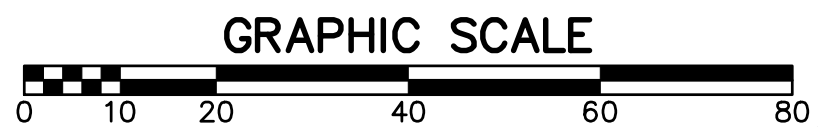
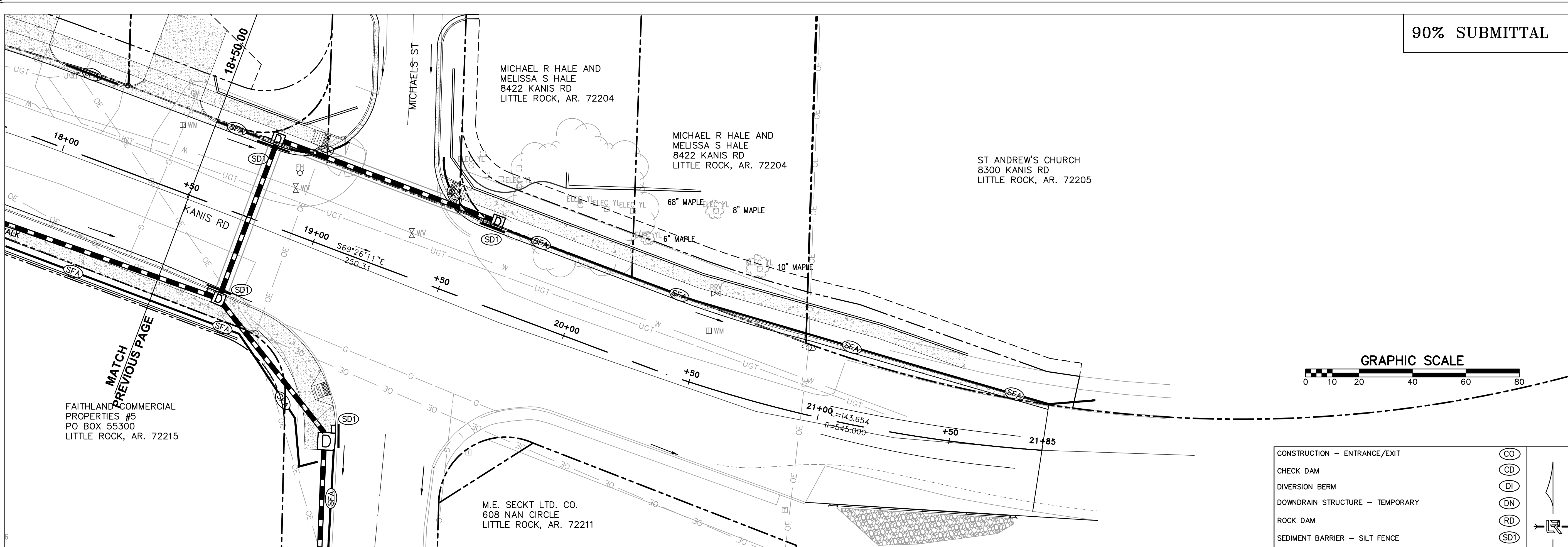
UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILERS, PARKING, LAY DOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. IN ADDITION, NOTE ANY OFF-SITE AREA WHERE FILL IS IMPORTED FROM OR SOIL IS EXPORTED TO ON THE SITE MAPS.

**PHASE 2**

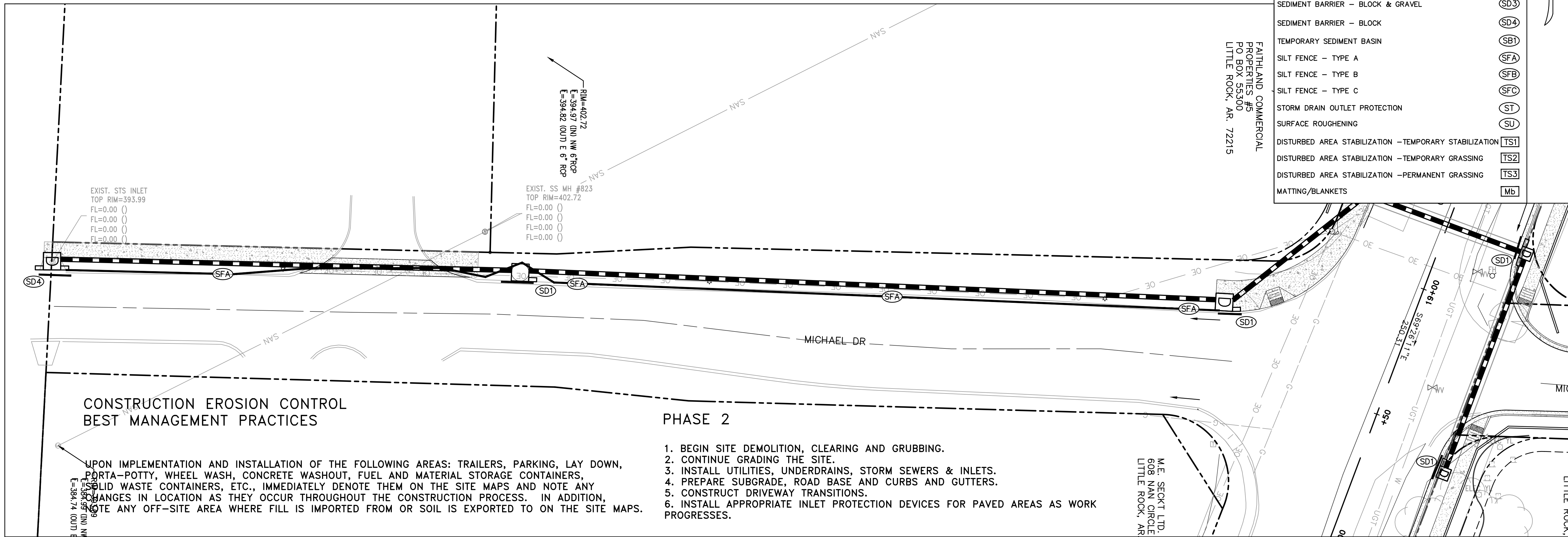
- BEGIN SITE DEMOLITION, CLEARING AND GRUBBING.
- CONTINUE GRADING THE SITE.
- INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS & INLETS.
- PREPARE SUBGRADE, ROAD BASE AND CURBS AND GUTTERS.
- CONSTRUCT DRIVEWAY TRANSITIONS.
- INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES.

90% SUBMITTAL

REVISIONS DATE



CONSTRUCTION - ENTRANCE/EXIT	(CO)
CHECK DAM	(CD)
DIVERSION BERM	(DI)
DOWNDRAIN STRUCTURE - TEMPORARY	(DN)
ROCK DAM	(RD)
SEDIMENT BARRIER - SILT FENCE	(SD1)
SEDIMENT BARRIER - GRAVEL RING	(SD2)
SEDIMENT BARRIER - BLOCK & GRAVEL	(SD3)
SEDIMENT BARRIER - BLOCK	(SD4)
TEMPORARY SEDIMENT BASIN	(SBI)
SILT FENCE - TYPE A	(SFA)
SILT FENCE - TYPE B	(SFB)
SILT FENCE - TYPE C	(SFC)
STORM DRAIN OUTLET PROTECTION	(ST)
SURFACE ROUGHENING	(SU)
DISTURBED AREA STABILIZATION - TEMPORARY STABILIZATION	(TS1)
DISTURBED AREA STABILIZATION - TEMPORARY GRASSING	(TS2)
DISTURBED AREA STABILIZATION - PERMANENT GRASSING	(TS3)
MATTING/BANKETS	(Mb)



**CONSTRUCTION EROSION CONTROL BEST MANAGEMENT PRACTICES**

**PHASE 2**

1. BEGIN SITE DEMOLITION, CLEARING AND GRUBBING.
2. CONTINUE GRADING THE SITE.
3. INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS & INLETS.
4. PREPARE SUBGRADE, ROAD BASE AND CURBS AND GUTTERS.
5. CONSTRUCT DRIVEWAY TRANSITIONS.
6. INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES.

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILERS, PARKING, LAY DOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. IN ADDITION, NOTE ANY OFF-SITE AREA WHERE FILL IS IMPORTED FROM OR SOIL IS EXPORTED TO ON THE SITE MAPS.

CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD IMPROVEMENTS  
EROSION CONTROL PH II SHEET 2

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

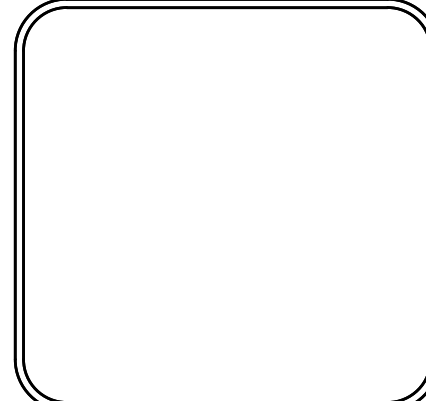
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DATE  
08-06-2019  
SCALE  
H: 1"=20'  
PROJECT NO.  
06-17-222B  
SHEET NO.  
C20



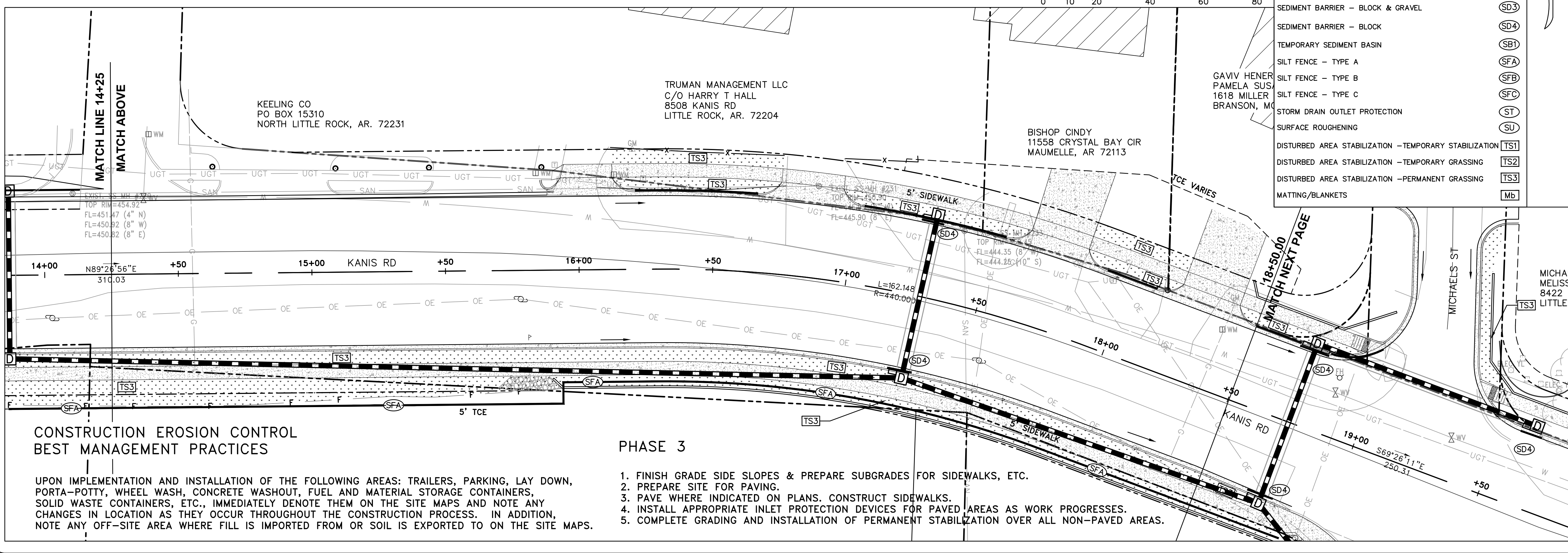
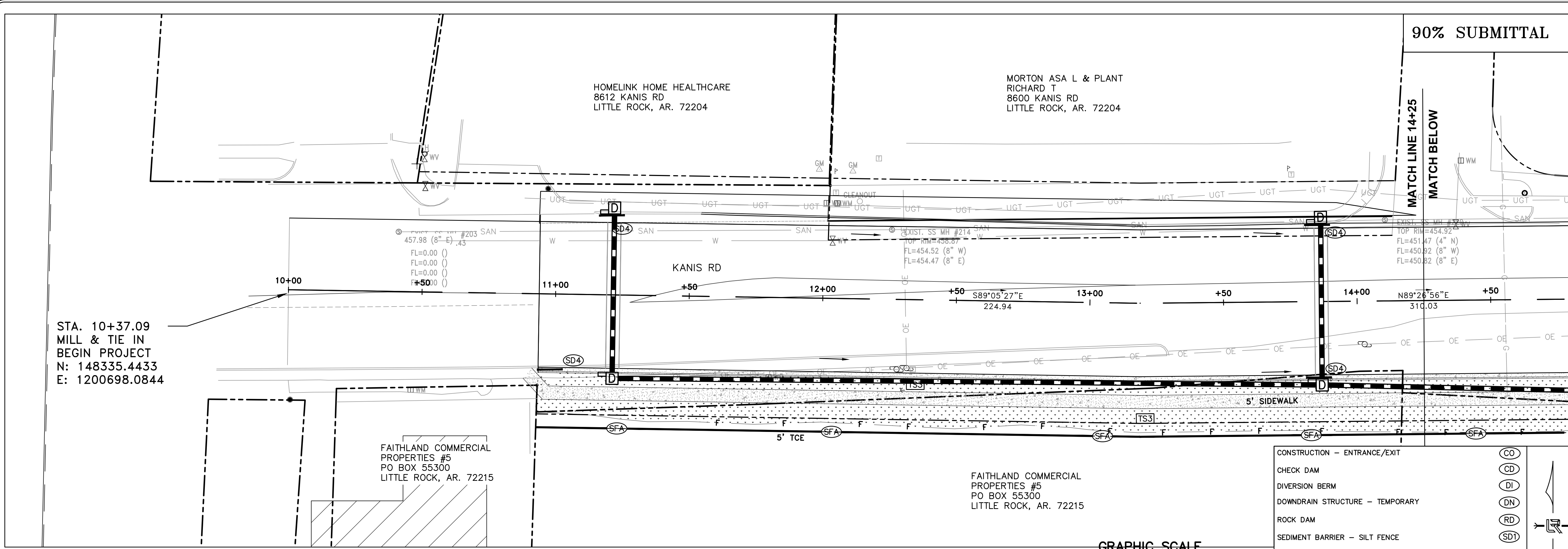
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
**KANIS ROAD IMPROVEMENTS**  
 EROSION CONTROL PH III SHEET 1

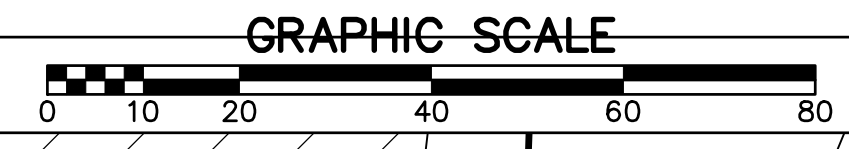
DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
 701 W. MARKHAM  
 LITTLE ROCK, ARKANSAS 72201



**DRAWN BY**  
 TH  
**DESIGNED**  
 TDF  
**CHECKED**  
 BAP  
**DATE**  
 08-06-2019  
**SCALE**  
 H: 1"=20'  
**PROJECT NO.**  
 06-17-222B  
**SHEET NO.**  
 C21



CONSTRUCTION - ENTRANCE/EXIT	(CO)
CHECK DAM	(CD)
DIVERSION BERM	(DI)
DOWNDRAIN STRUCTURE - TEMPORARY	(DN)
ROCK DAM	(RD)
SEDIMENT BARRIER - SILT FENCE	(SD1)
SEDIMENT BARRIER - GRAVEL RING	(SD2)
SEDIMENT BARRIER - BLOCK & GRAVEL	(SD3)
SEDIMENT BARRIER - BLOCK	(SD4)
TEMPORARY SEDIMENT BASIN	(SB1)
SILT FENCE - TYPE A	(SFA)
SILT FENCE - TYPE B	(SFB)
SILT FENCE - TYPE C	(SFC)
STORM DRAIN OUTLET PROTECTION	(ST)
SURFACE ROUGHENING	(SU)
DISTURBED AREA STABILIZATION - TEMPORARY STABILIZATION	(TS1)
DISTURBED AREA STABILIZATION - TEMPORARY GRASSING	(TS2)
DISTURBED AREA STABILIZATION - PERMANENT GRASSING	(TS3)
MATTING/BLANKETS	(Mb)



**CONSTRUCTION EROSION CONTROL BEST MANAGEMENT PRACTICES**

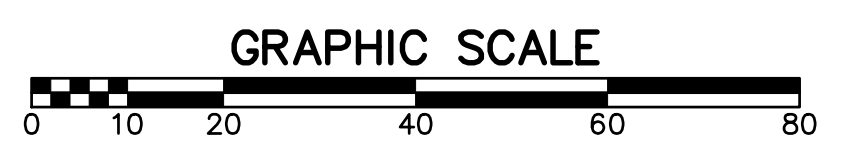
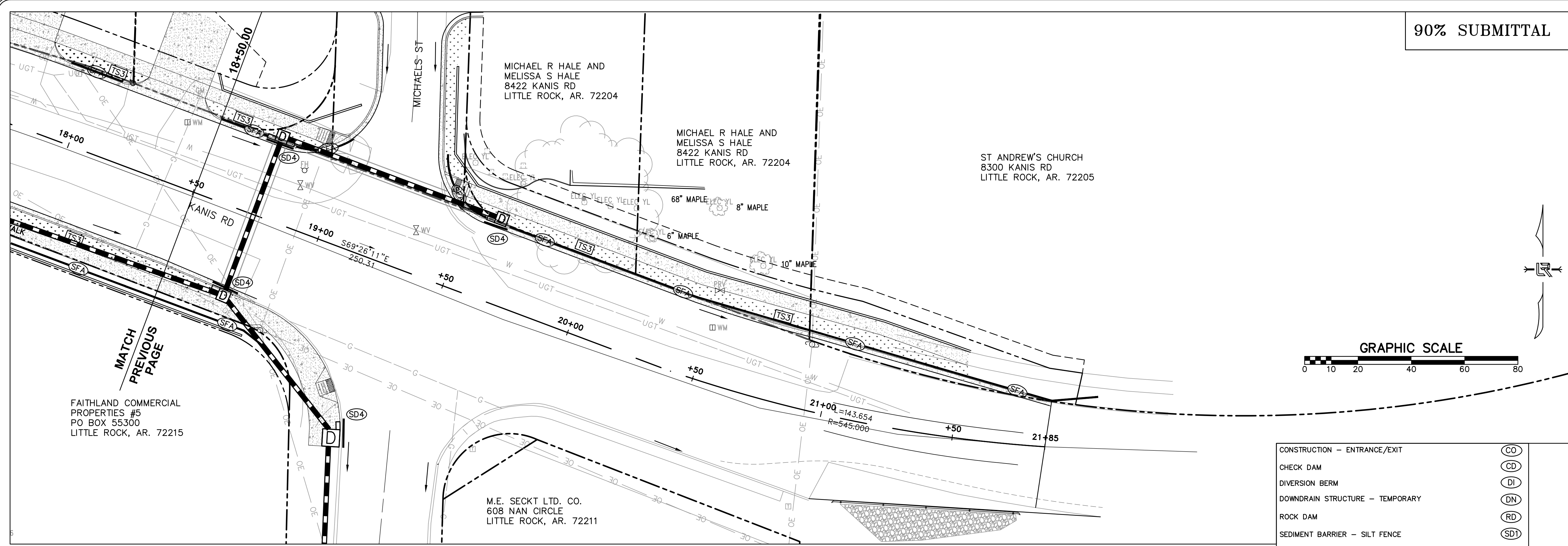
UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILERS, PARKING, LAY DOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. IN ADDITION, NOTE ANY OFF-SITE AREA WHERE FILL IS IMPORTED FROM OR SOIL IS EXPORTED TO ON THE SITE MAPS.

**PHASE 3**

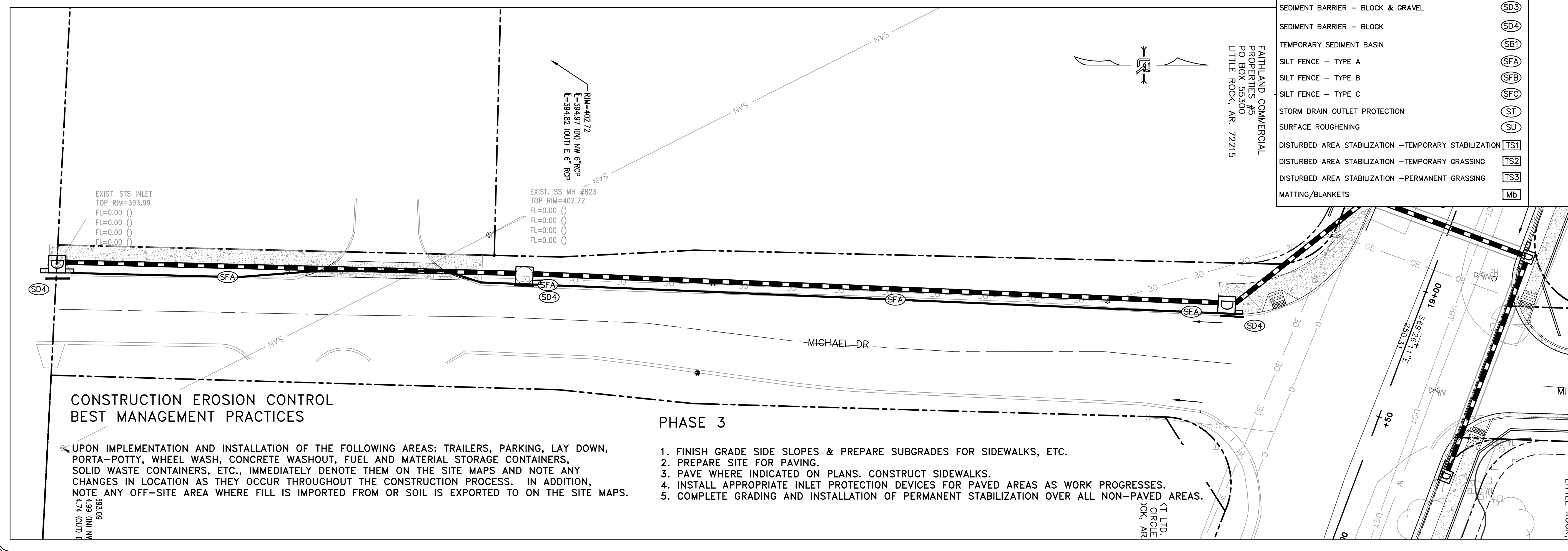
1. FINISH GRADE SIDE SLOPES & PREPARE SUBGRADES FOR SIDEWALKS, ETC.
2. PREPARE SITE FOR PAVING.
3. PAVE WHERE INDICATED ON PLANS. CONSTRUCT SIDEWALKS.
4. INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES.
5. COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL NON-PAVED AREAS.

REVISIONS	DATE

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CONSTRUCTION - ENTRANCE/EXIT	(CO)
CHECK DAM	(CD)
DIVERSION BERM	(DI)
DOWNDRAIN STRUCTURE - TEMPORARY	(DN)
ROCK DAM	(RD)
SEDIMENT BARRIER - SILT FENCE	(SD1)
SEDIMENT BARRIER - GRAVEL RING	(SD2)
SEDIMENT BARRIER - BLOCK & GRAVEL	(SD3)
SEDIMENT BARRIER - BLOCK	(SD4)
TEMPORARY SEDIMENT BASIN	(SBI)
SILT FENCE - TYPE A	(SFA)
SILT FENCE - TYPE B	(SFB)
SILT FENCE - TYPE C	(SFC)
STORM DRAIN OUTLET PROTECTION	(ST)
SURFACE ROUGHENING	(SU)
DISTURBED AREA STABILIZATION - TEMPORARY STABILIZATION	(TS1)
DISTURBED AREA STABILIZATION - TEMPORARY GRASSING	(TS2)
DISTURBED AREA STABILIZATION - PERMANENT GRASSING	(TS3)
MATTING/BLANKETS	(Mb)



**CONSTRUCTION EROSION CONTROL BEST MANAGEMENT PRACTICES**

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILERS, PARKING, LAY DOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. IN ADDITION, NOTE ANY OFF-SITE AREA WHERE FILL IS IMPORTED FROM OR SOIL IS EXPORTED TO ON THE SITE MAPS.

**PHASE 3**

1. FINISH GRADE SIDE SLOPES & PREPARE SUBGRADES FOR SIDEWALKS, ETC.
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CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD IMPROVEMENTS  
EROSION CONTROL PH III SHEET 2

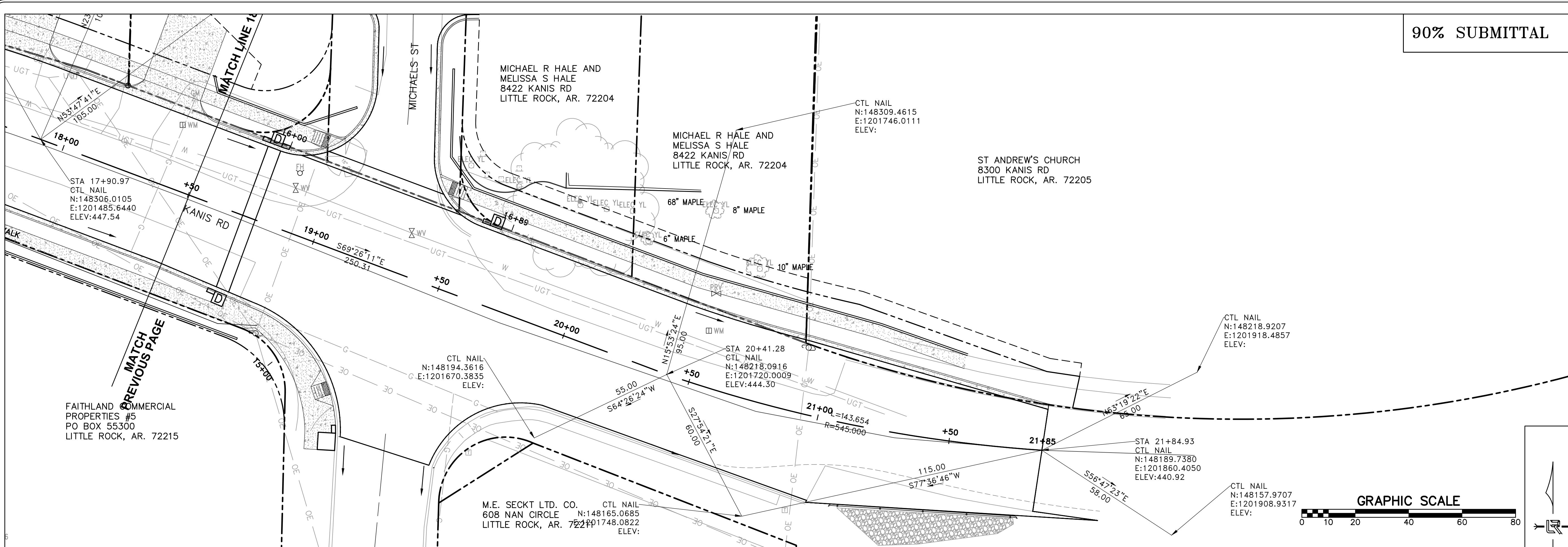
DEPARTMENT OF PUBLIC WORKS  
CIVIL ENGINEERING  
701 W. MARKHAM  
LITTLE ROCK, ARKANSAS 72201

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H: 1"=20'  
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06-17-222B  
SHEET NO.  
C22






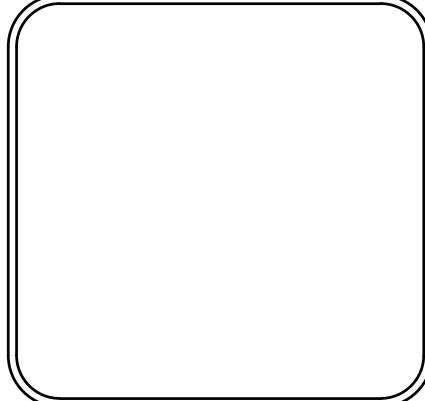
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CITY OF LITTLE ROCK, ARKANSAS  
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 701 W. MARKHAM  
 LITTLE ROCK, ARKANSAS 72201

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DATE	08-06-2019
SCALE	H: 1"=20'
PROJECT NO.	06-17-222B
SHEET NO.	C24


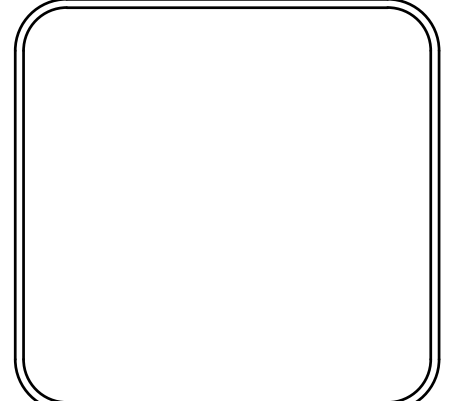


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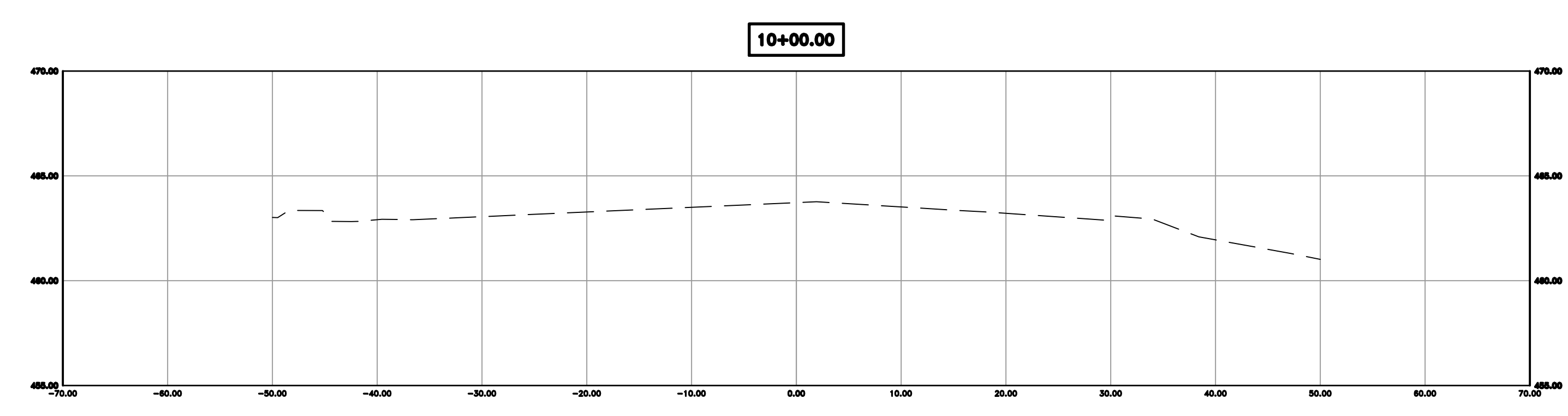
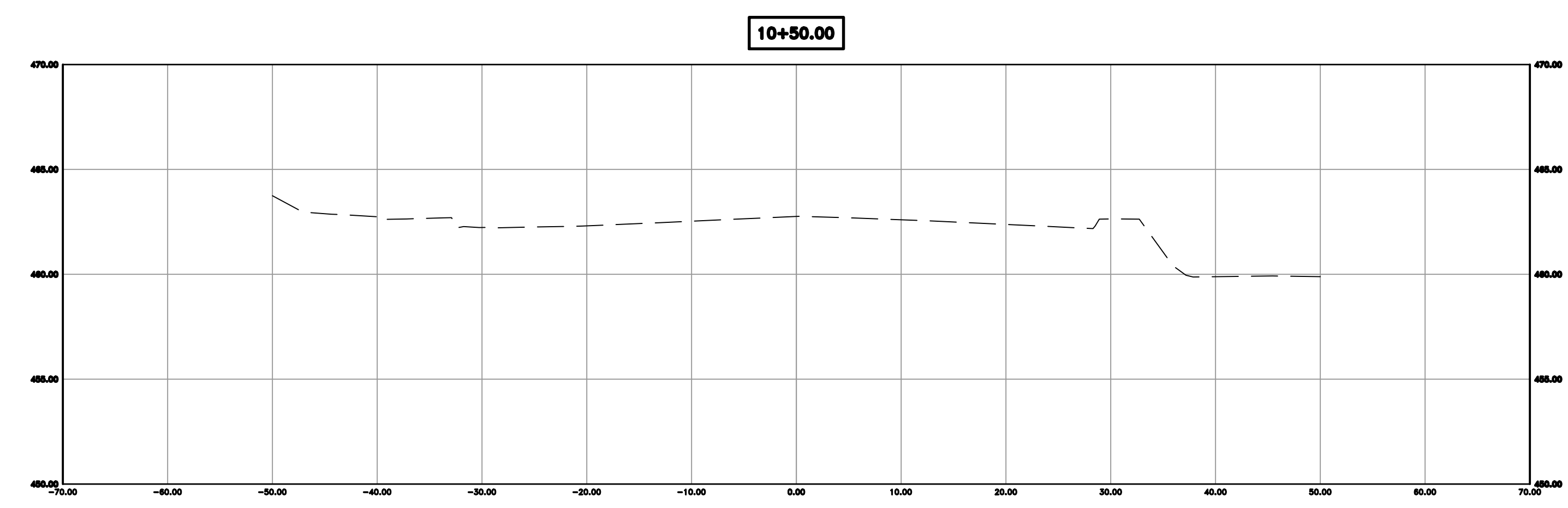
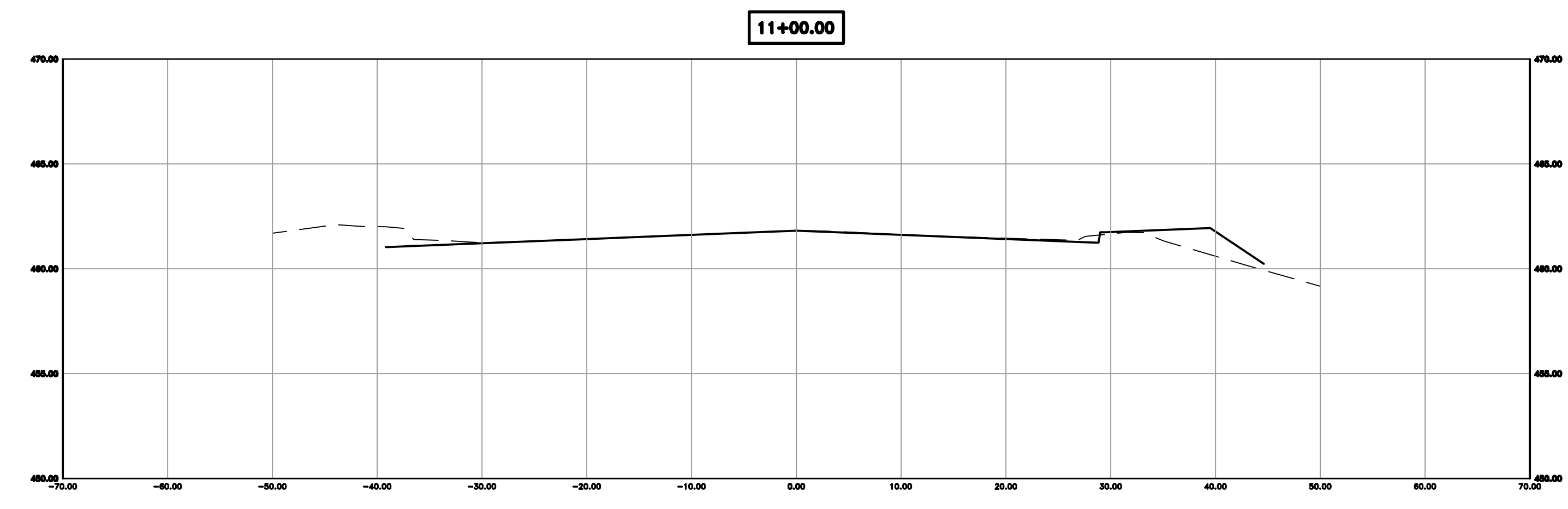
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CITY OF LITTLE ROCK, ARKANSAS  
 KANIS ROAD IMPROVEMENTS  
 CROSS SECTION SHEET 1

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 CIVIL ENGINEERING  
 701 W. MARKHAM  
 LITTLE ROCK, ARKANSAS 72201

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DATE	08-06-2019
SCALE	V: 1"=5'
PROJECT NO.	06-17-222B
SHEET NO.	C25

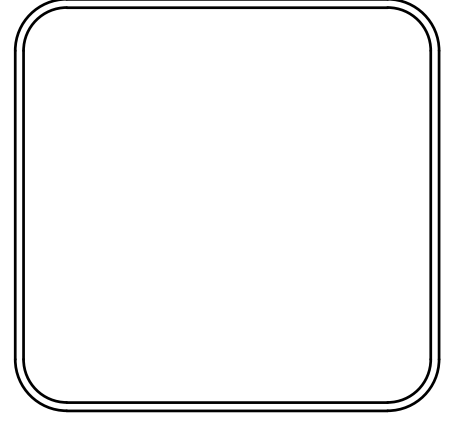


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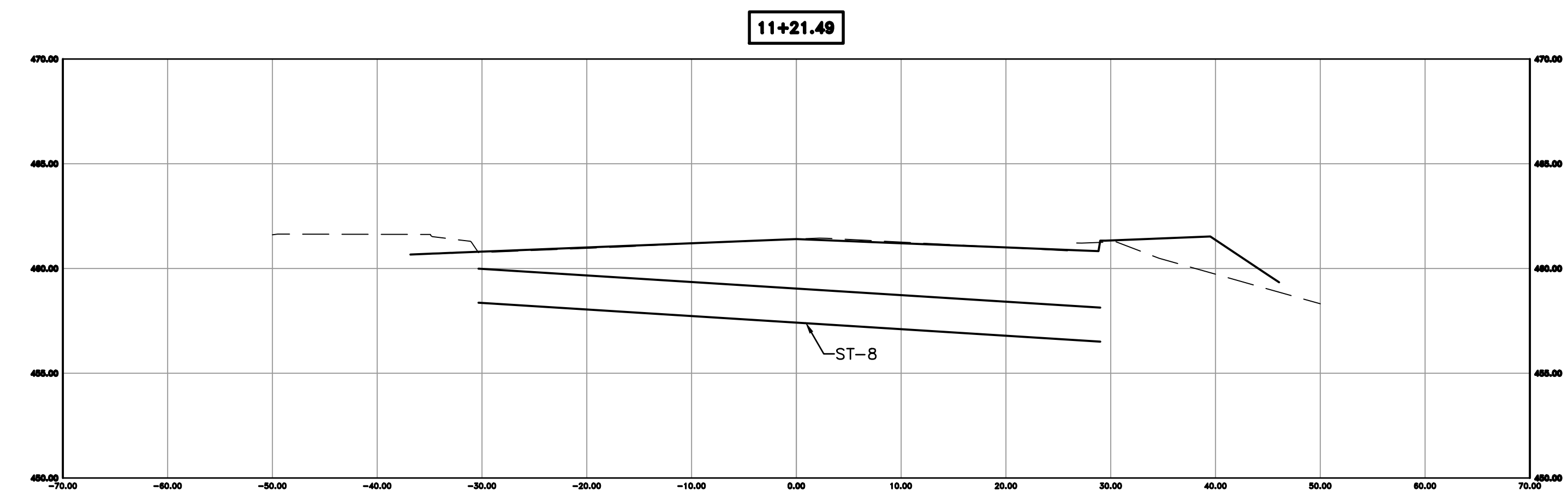
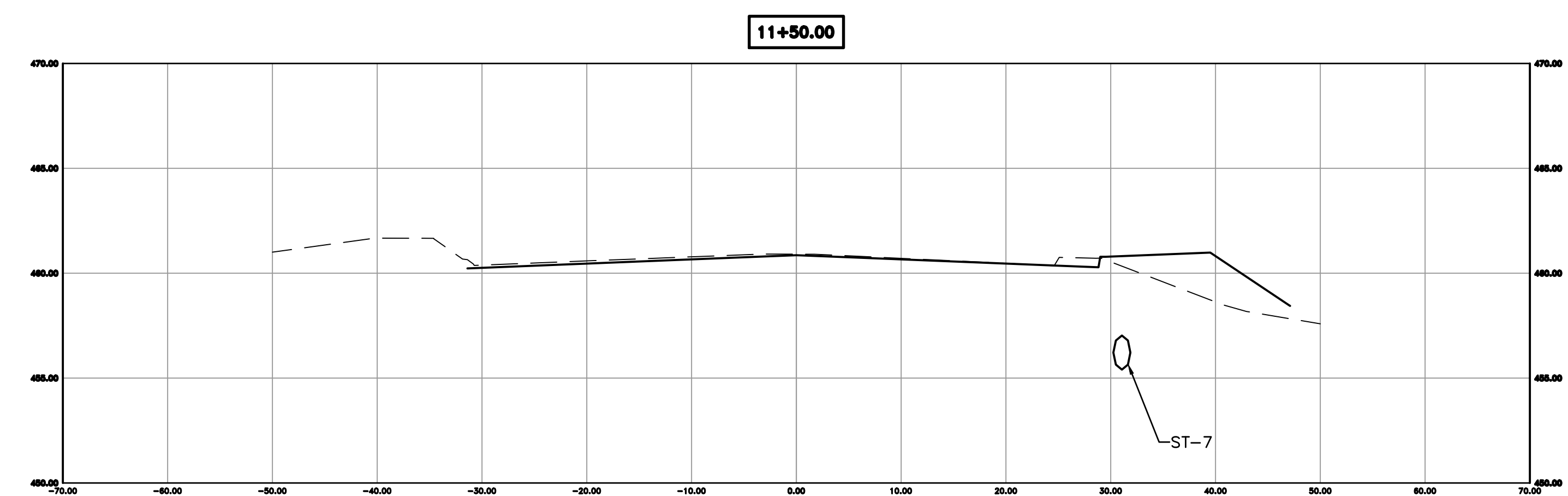
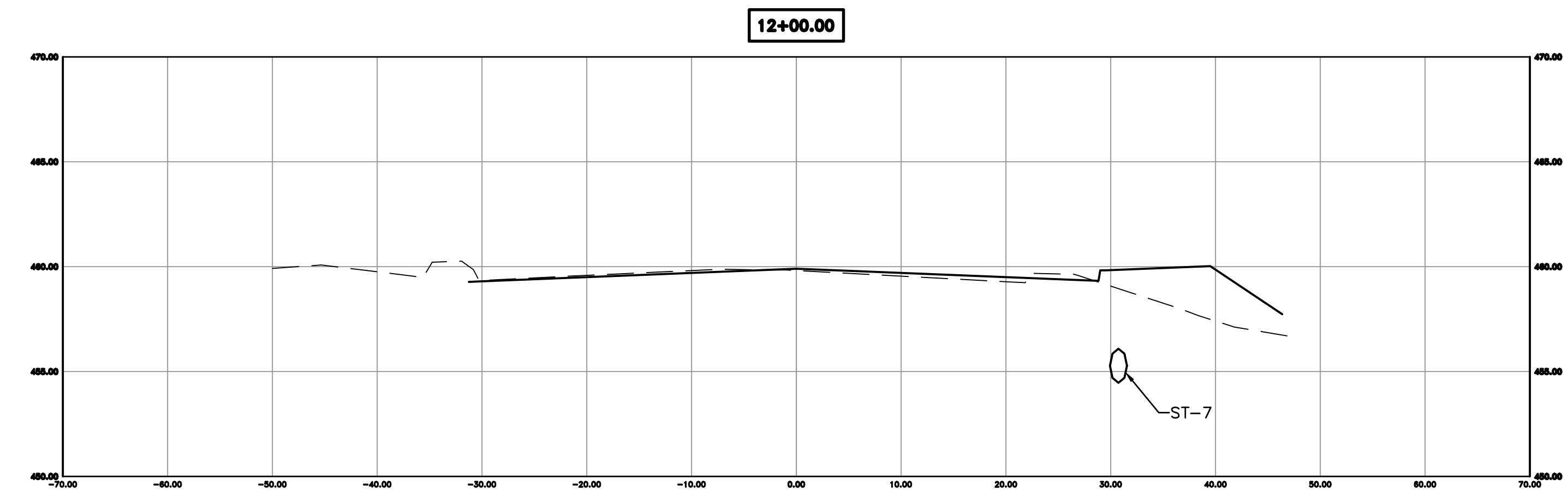
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CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD IMPROVEMENTS  
CROSS SECTION SHEET 2

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CIVIL ENGINEERING  
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DATE	08-06-2019
SCALE	H: 1"=10' V: 1"=5'
PROJECT NO.	06-17-222B
SHEET NO.	C26



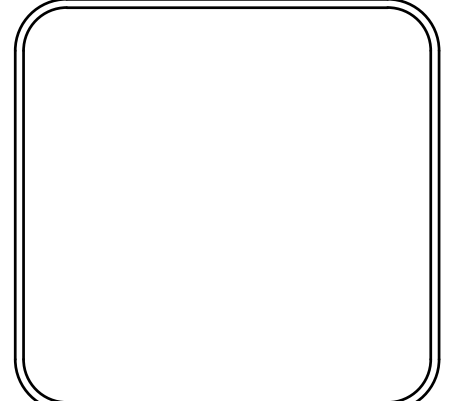


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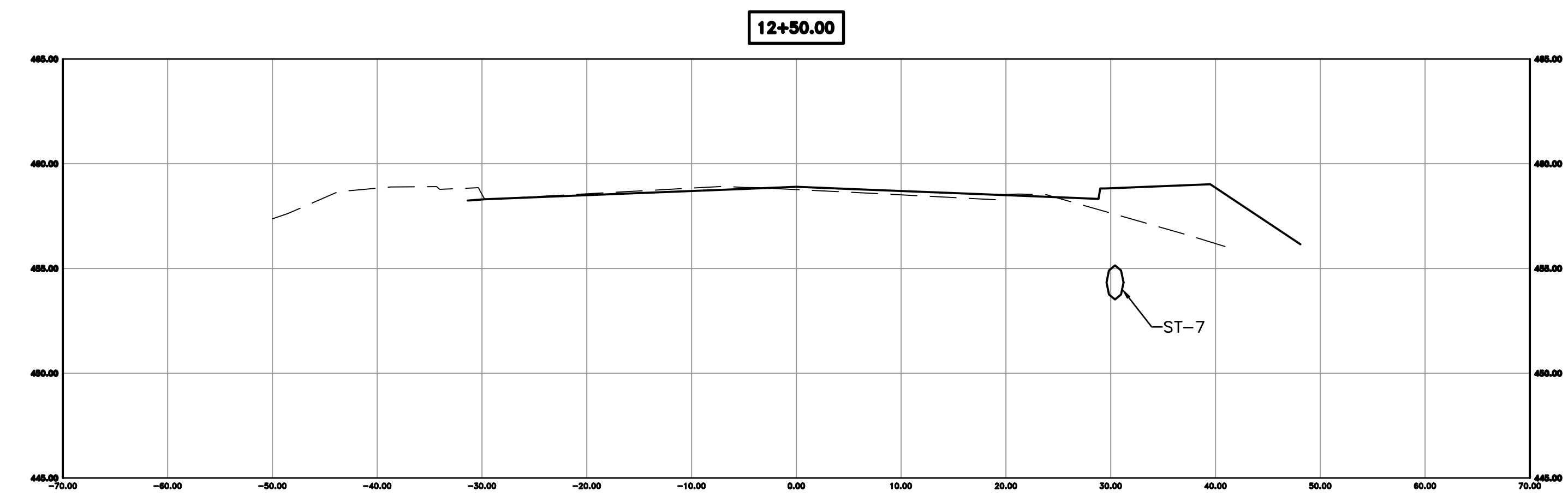
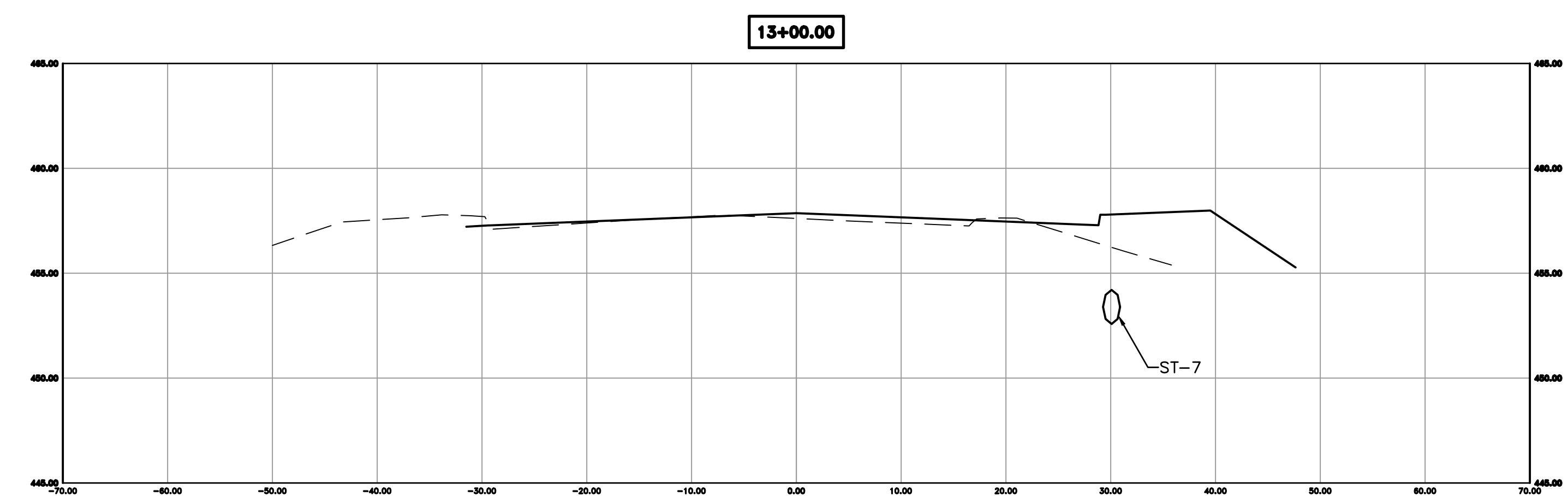
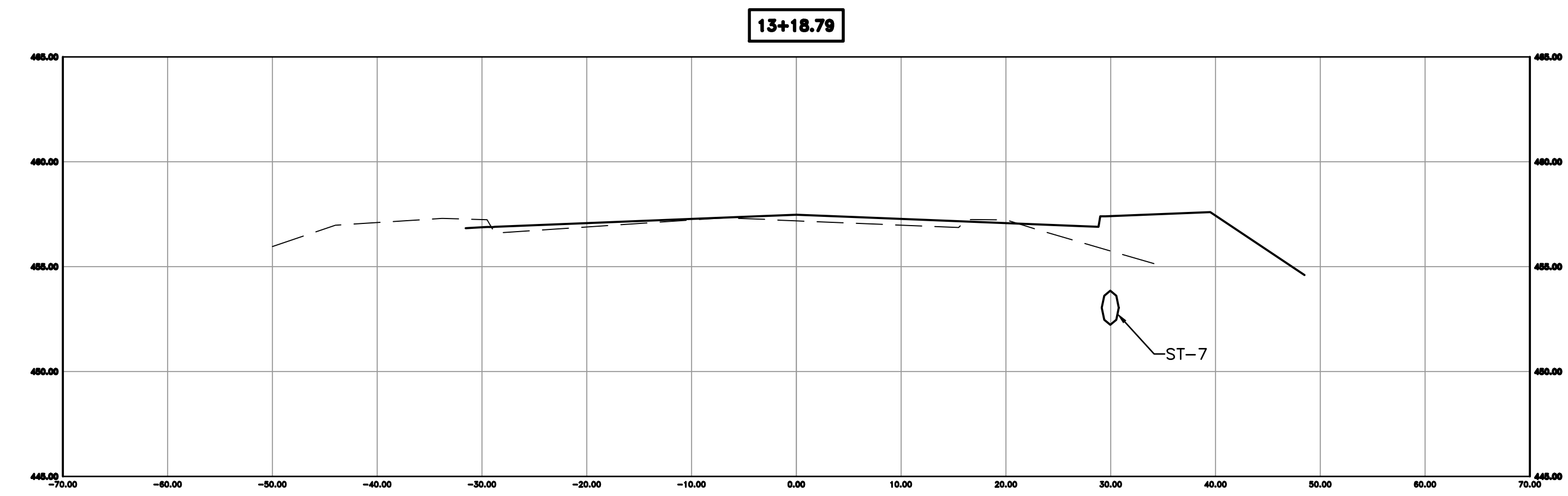
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CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD IMPROVEMENTS  
CROSS SECTION SHEET 3

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CIVIL ENGINEERING  
701 W. MARKHAM  
LITTLE ROCK, ARKANSAS 72201



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DATE	08-06-2019
SCALE	H: 1"=10' V: 1"=5'
PROJECT NO.	06-17-222B
SHEET NO.	C27

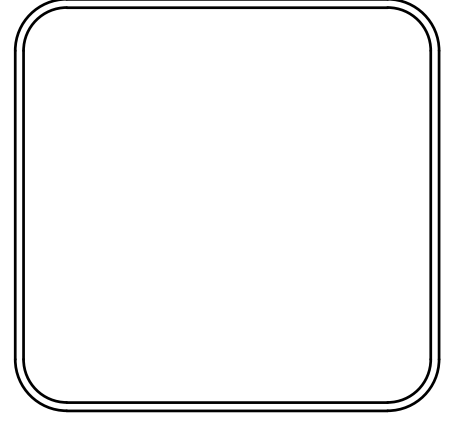


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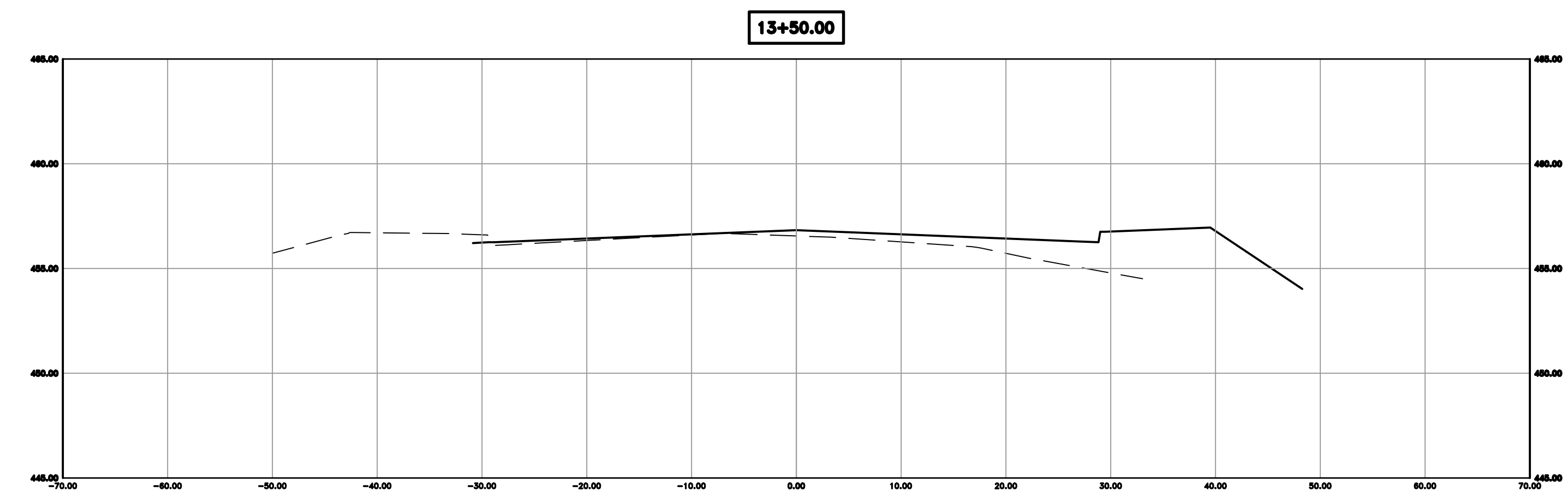
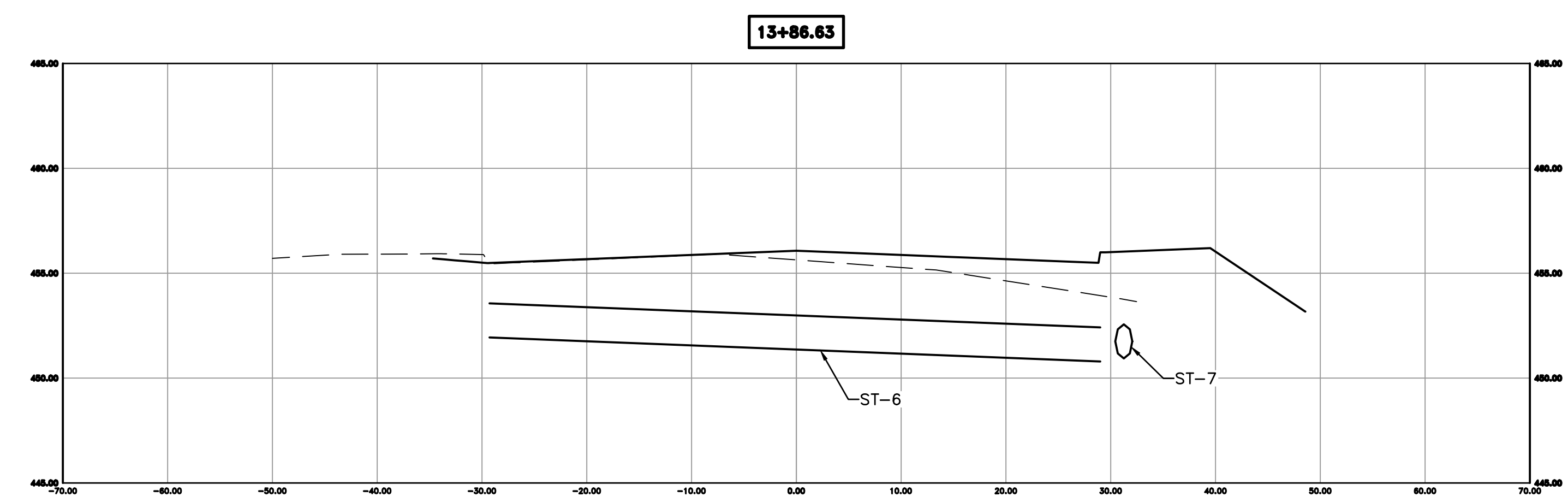
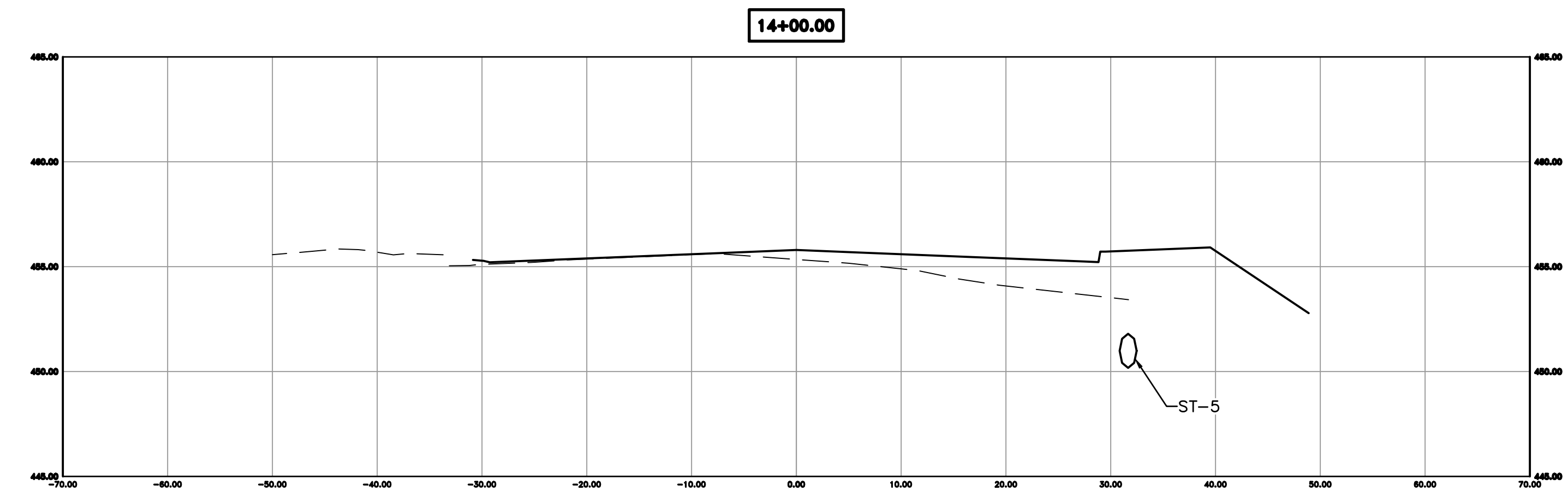
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD IMPROVEMENTS  
CROSS SECTION SHEET 4

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



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DATE	08-06-2019
SCALE	H: 1"=10' V: 1"=5'
PROJECT NO.	06-17-222B
SHEET NO.	C28




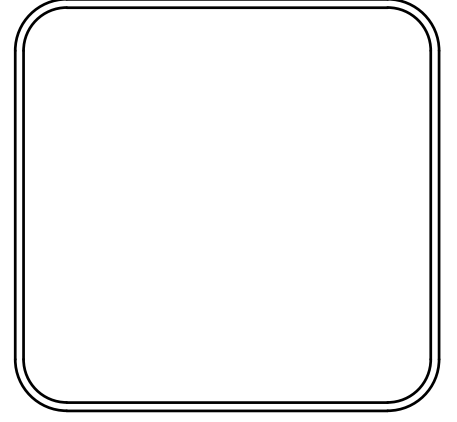


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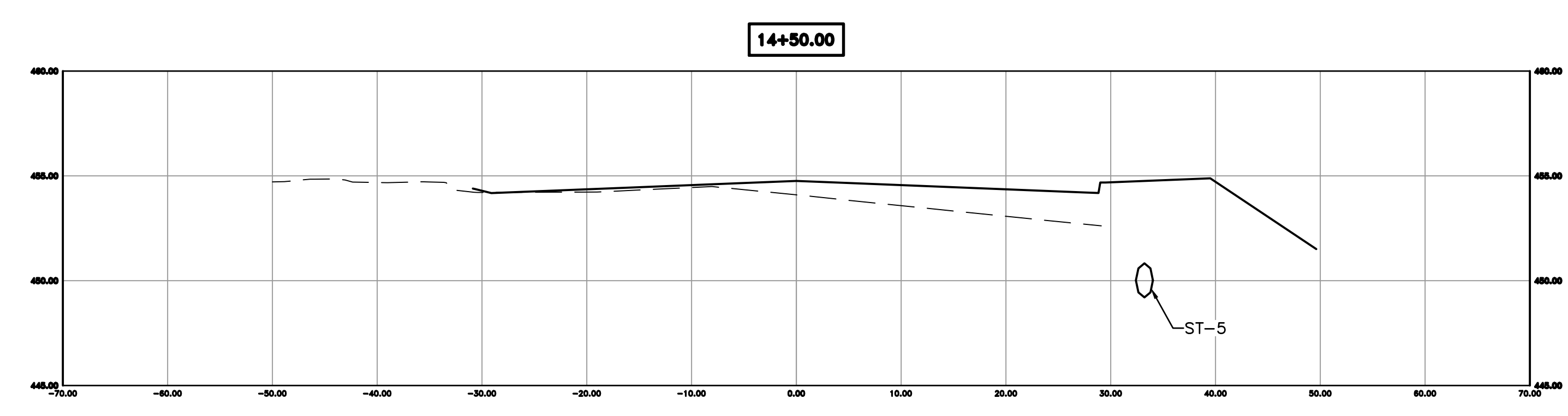
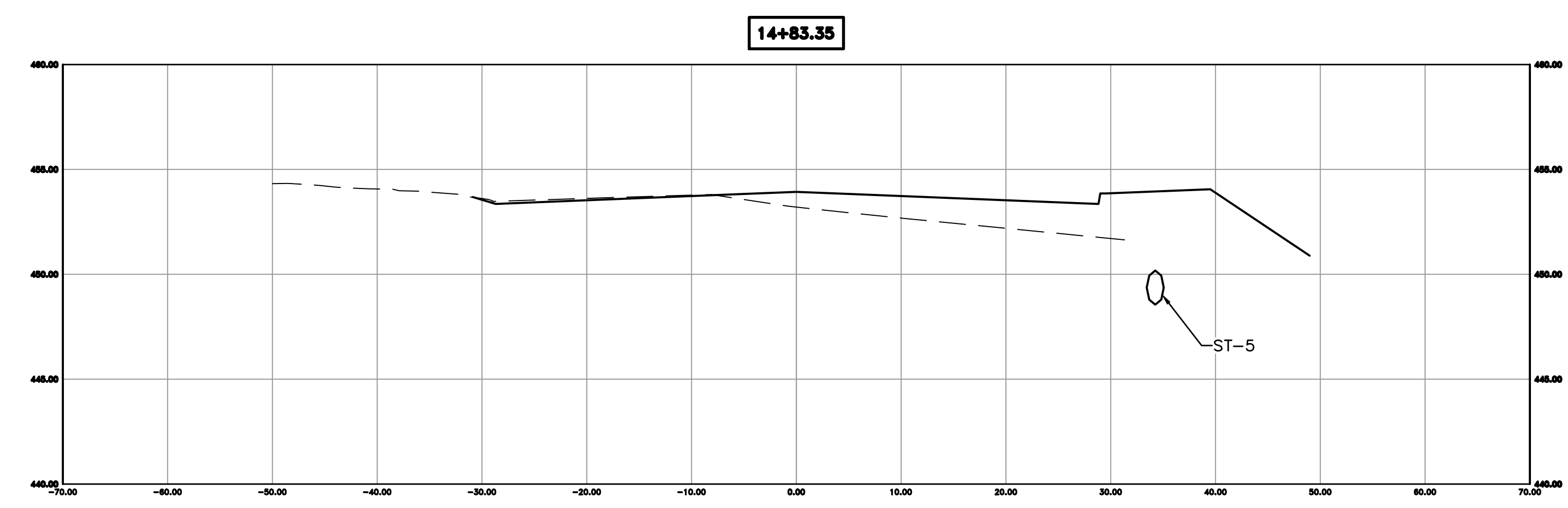
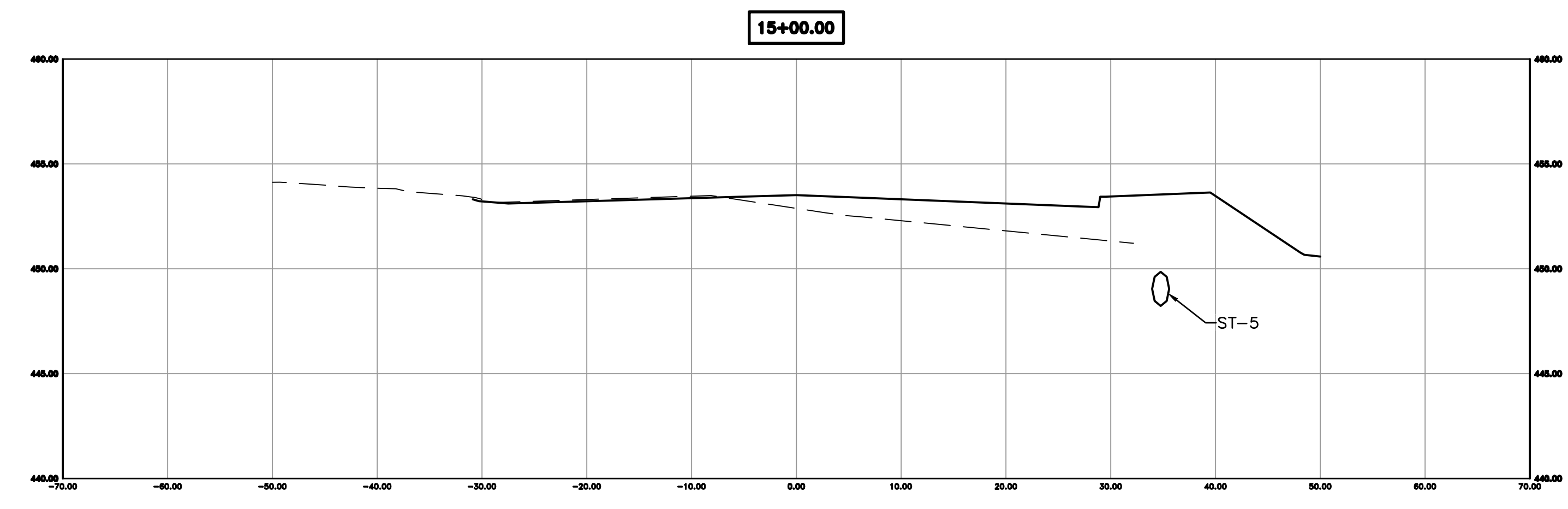
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 KANIS ROAD IMPROVEMENTS  
 CROSS SECTION SHEET 5

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

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DATE	08-06-2019
SCALE	H: 1"=10' V: 1"=5'
PROJECT NO.	06-17-222B
SHEET NO.	C29


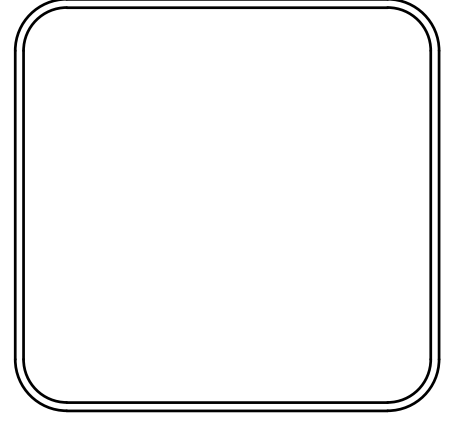


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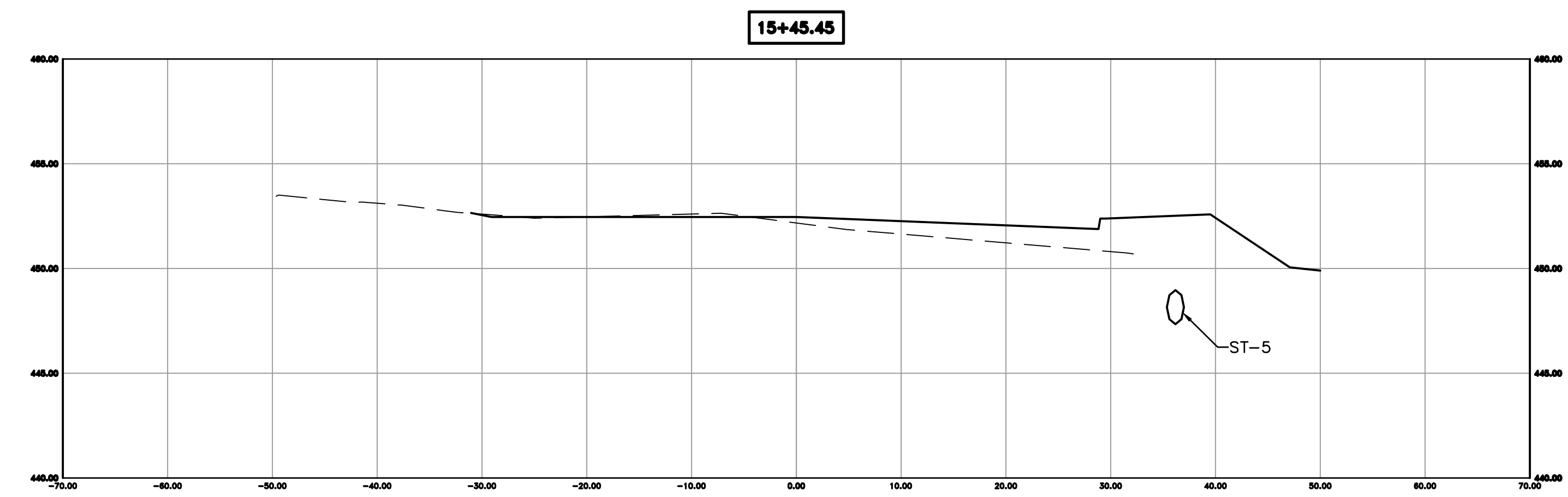
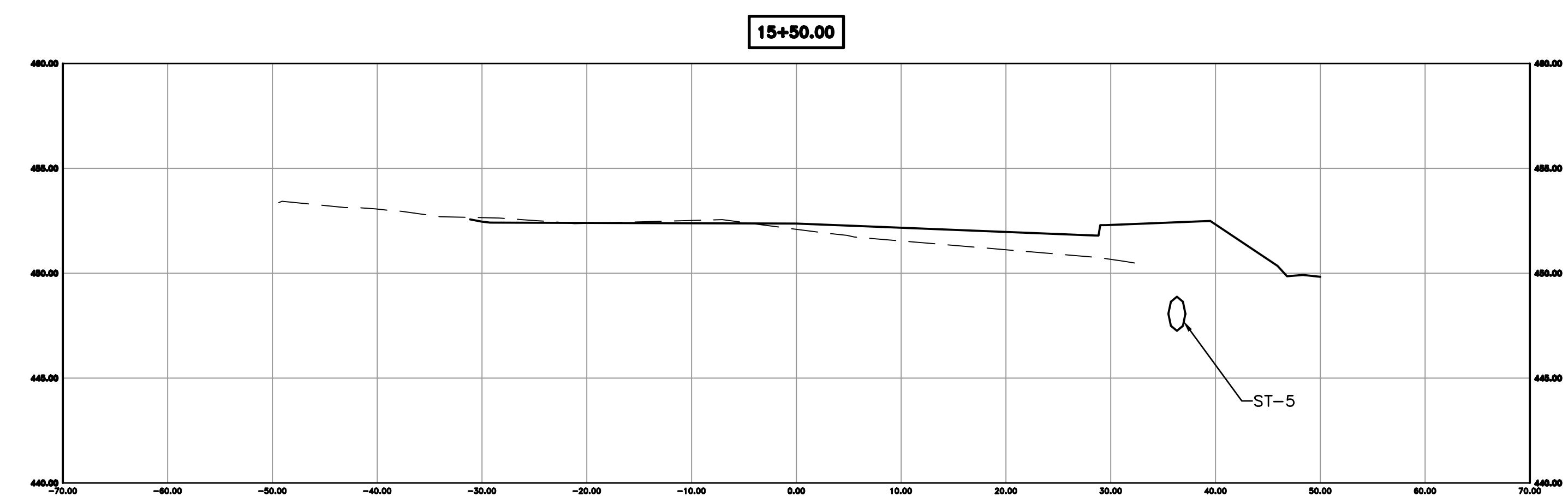
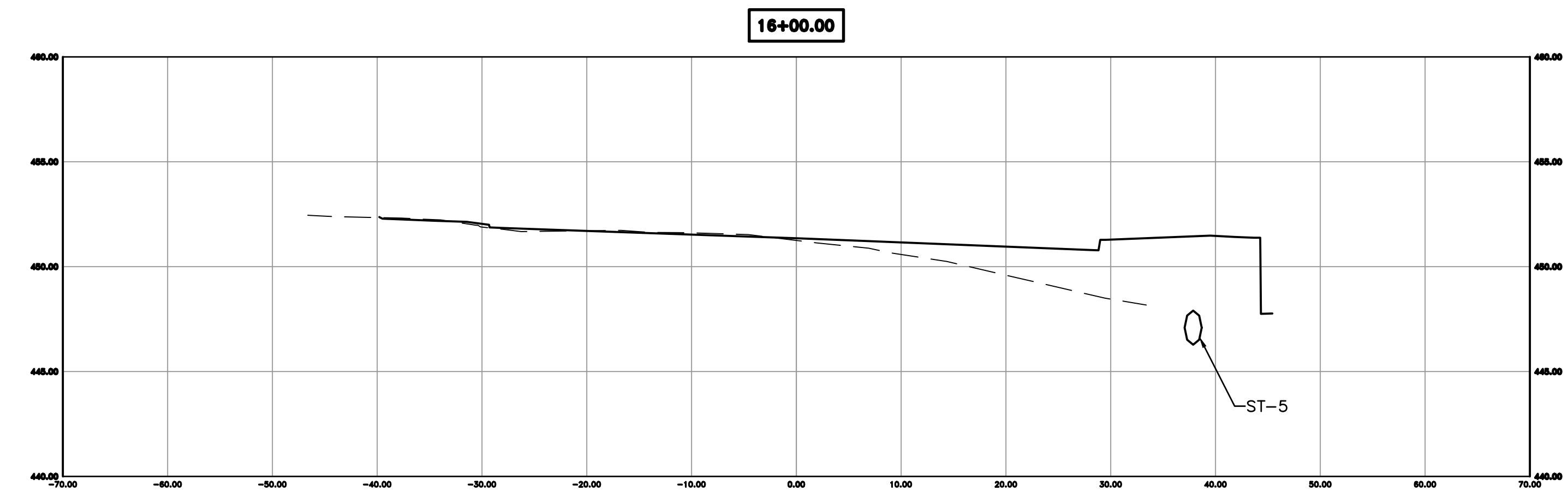
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 KANIS ROAD IMPROVEMENTS  
 CROSS SECTION SHEET 6

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

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CHECKED	BAP
DATE	08-06-2019
SCALE	H: 1"=10' V: 1"=5'
PROJECT NO.	06-17-222B
SHEET NO.	C30



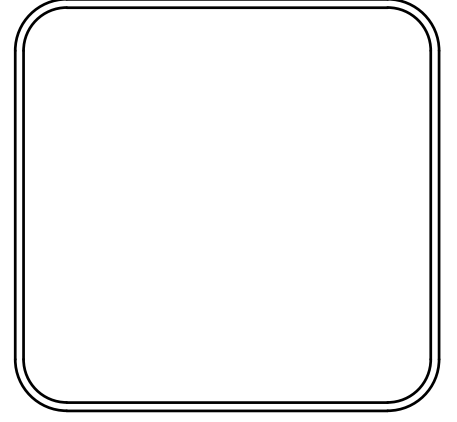


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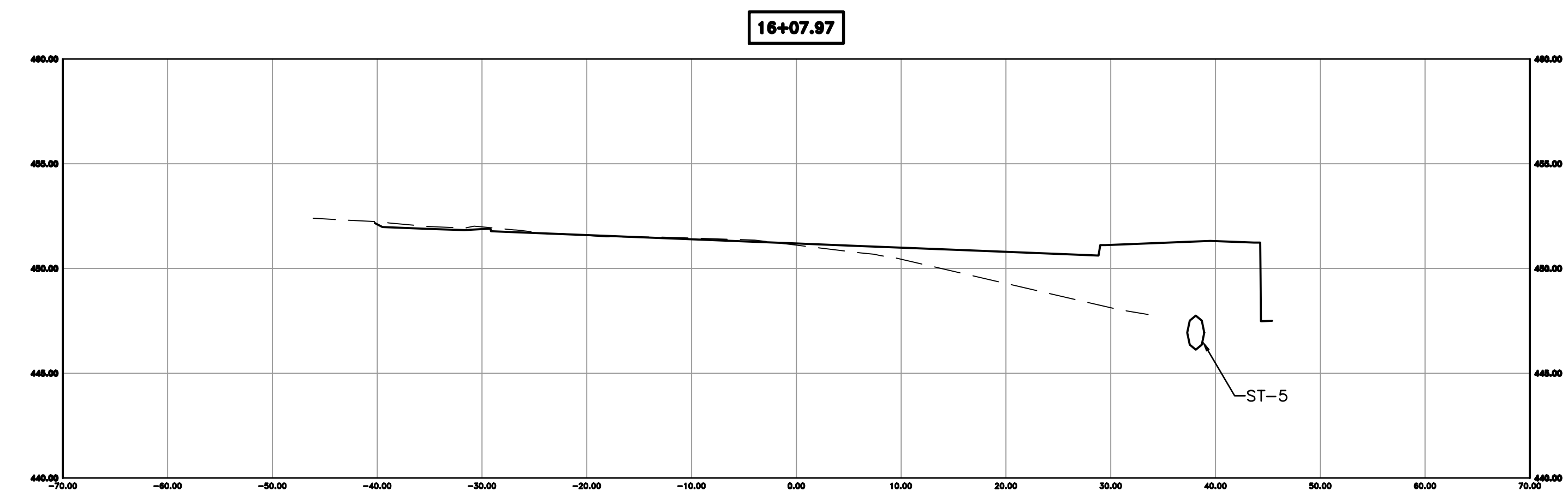
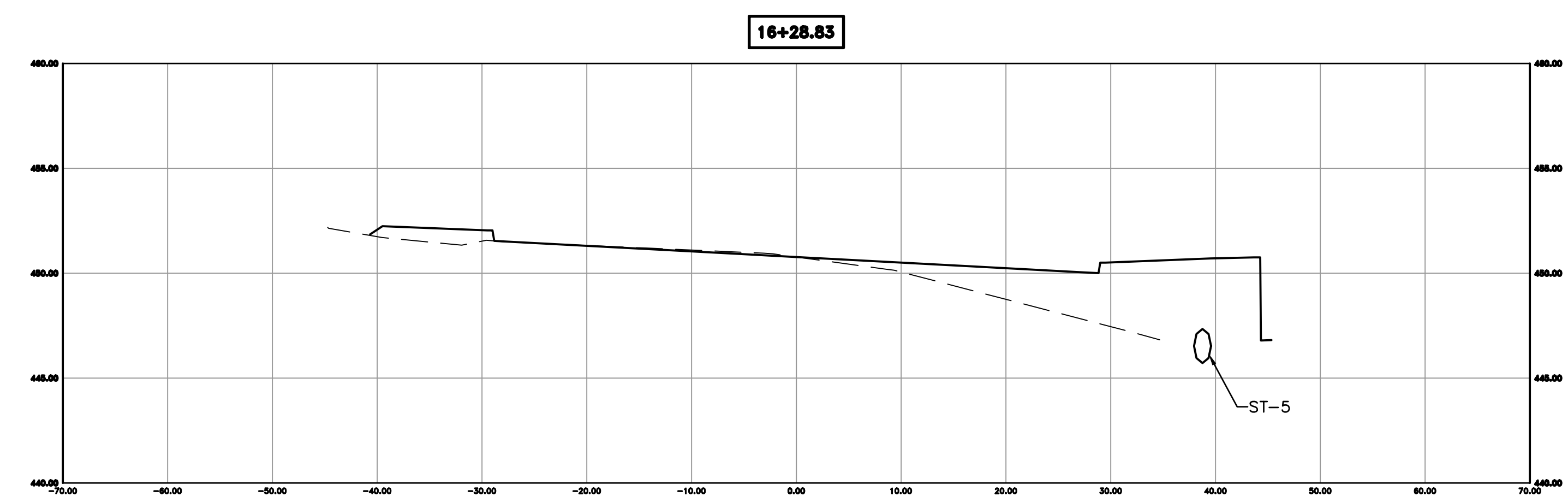
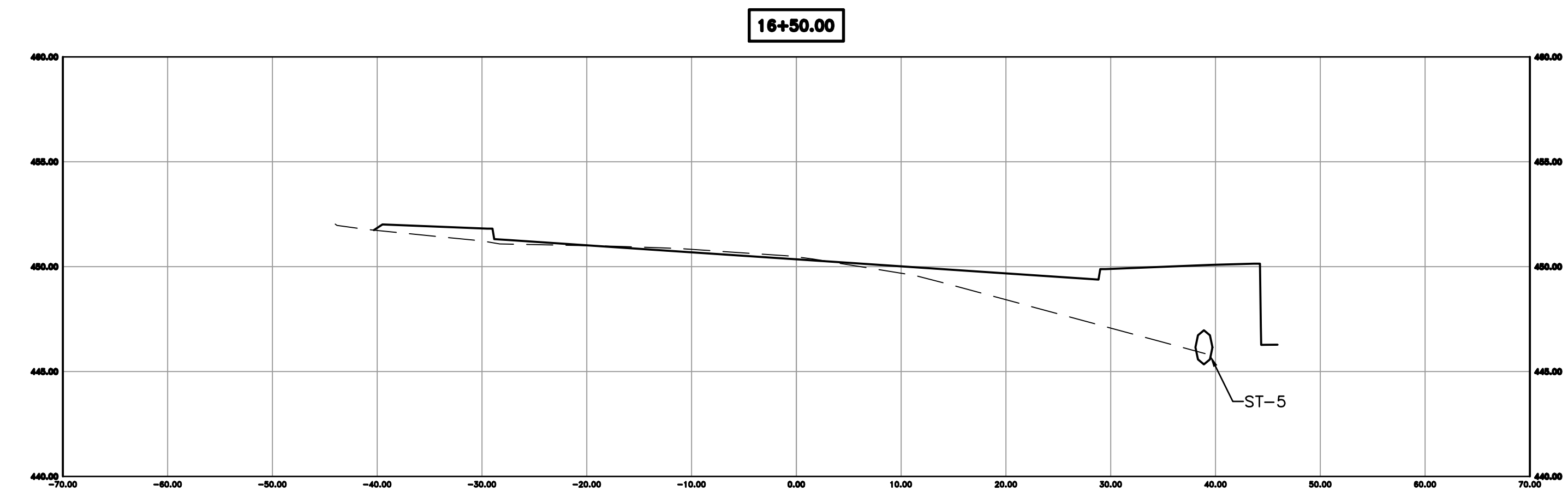
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD IMPROVEMENTS  
CROSS SECTION SHEET 7

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



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CHECKED	BAP
DATE	08-06-2019
SCALE	H: 1"=10' V: 1"=5'
PROJECT NO.	06-17-222B
SHEET NO.	C31

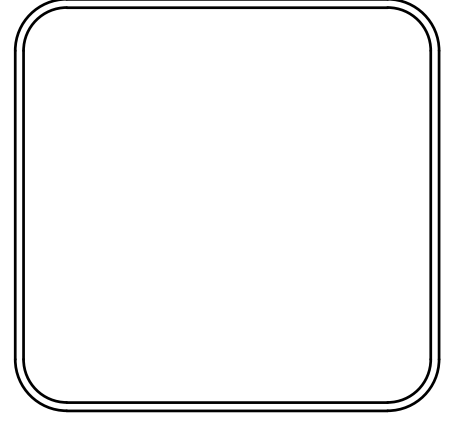


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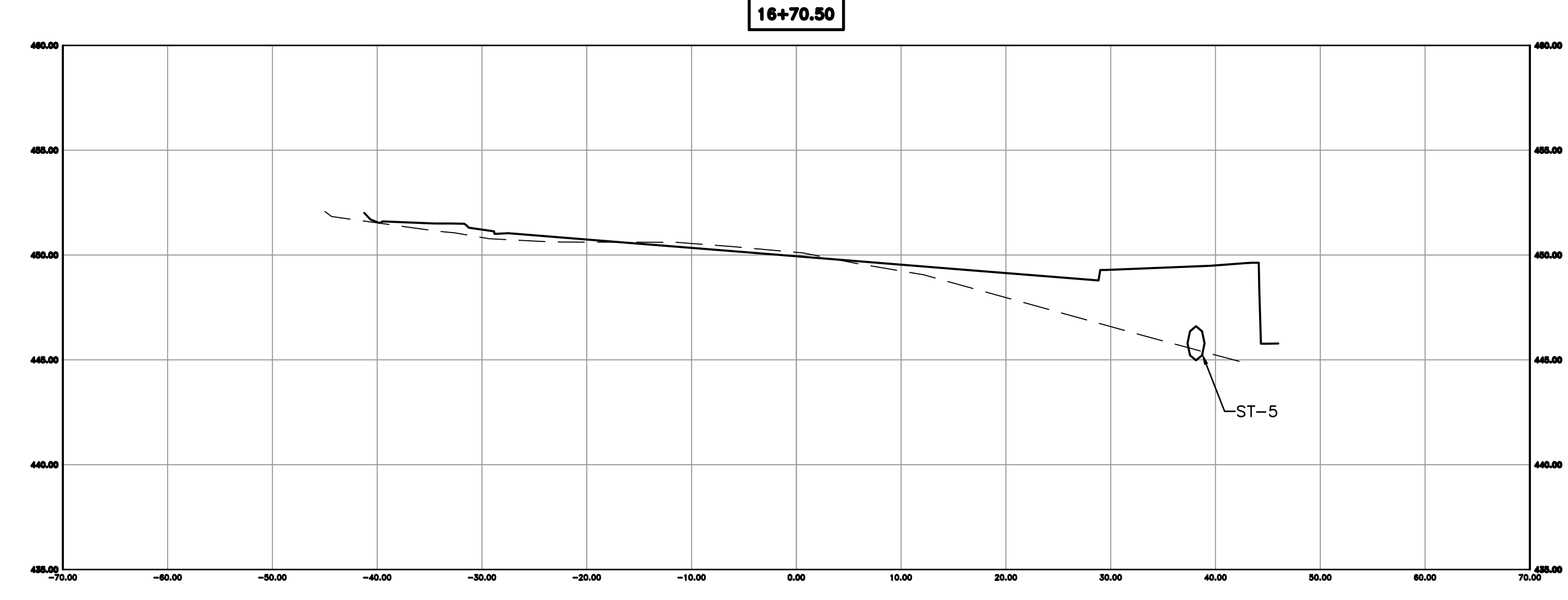
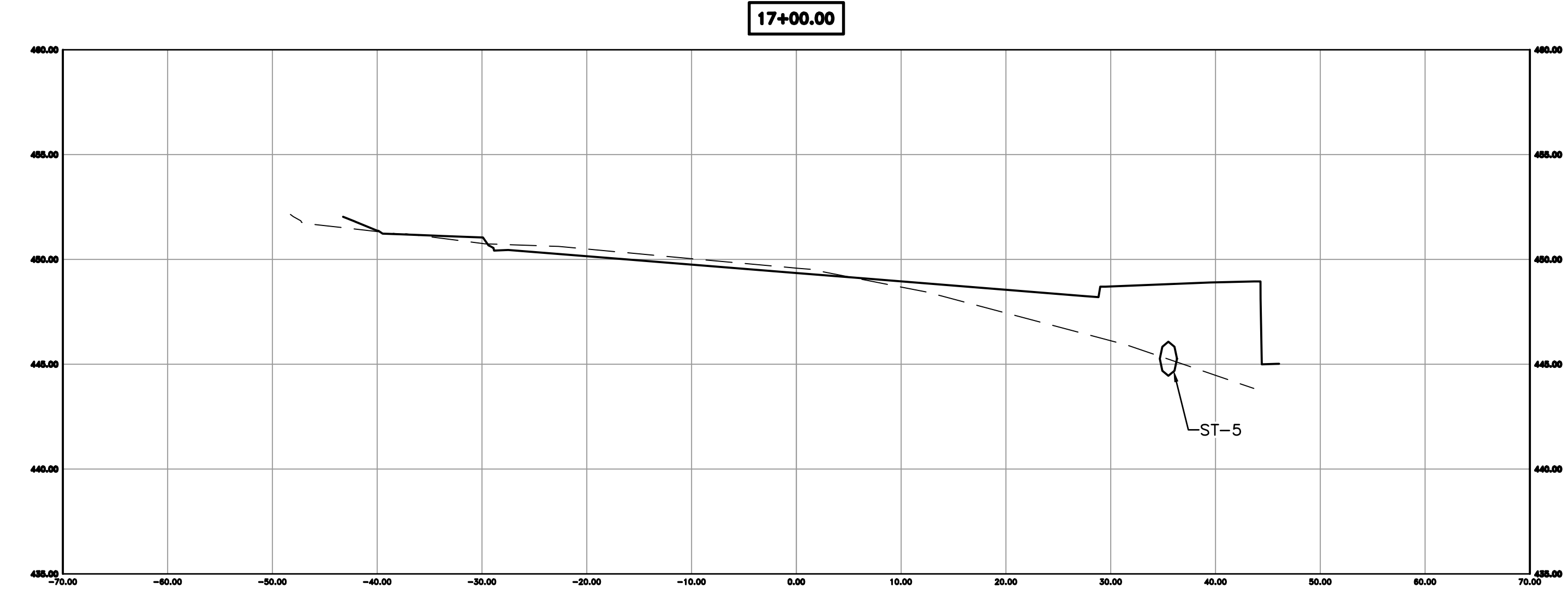
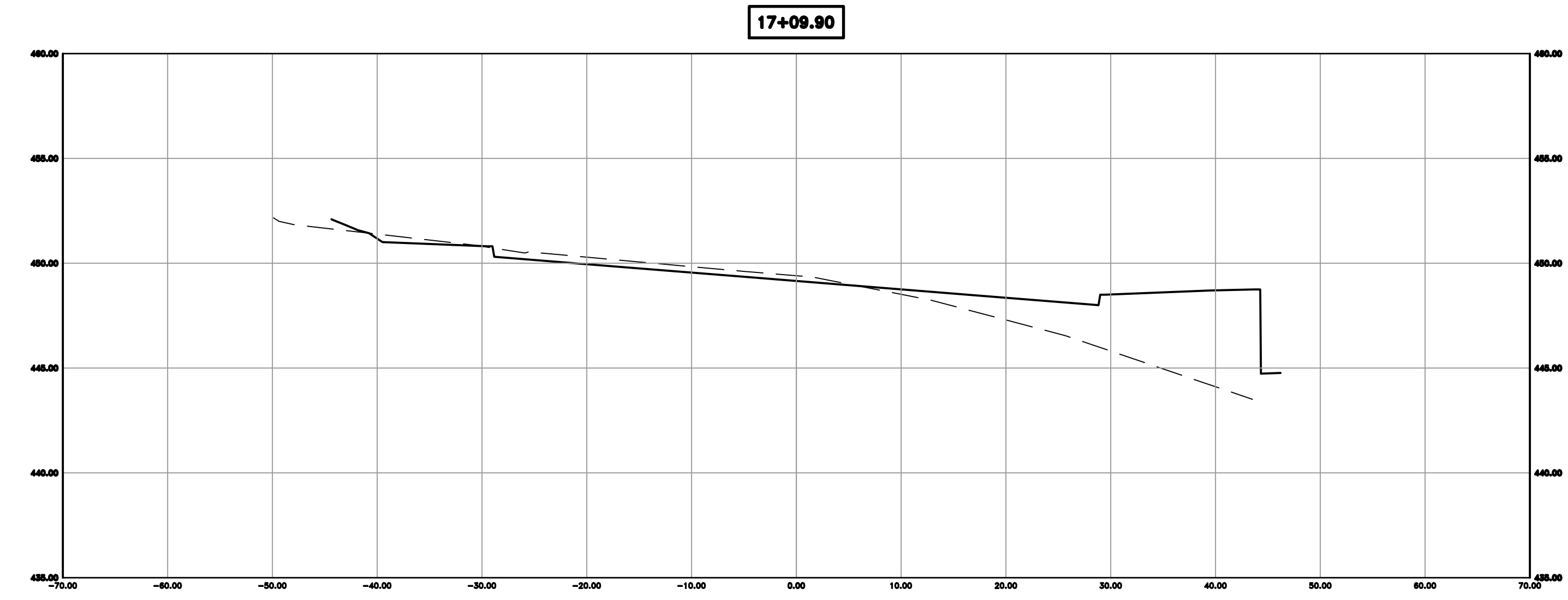
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD IMPROVEMENTS  
CROSS SECTION SHEET 8

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



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DATE	08-06-2019
SCALE	H: 1"=10' V: 1"=5'
PROJECT NO.	06-17-222B
SHEET NO.	C32



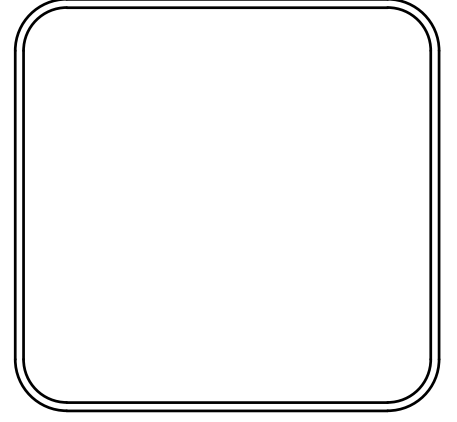


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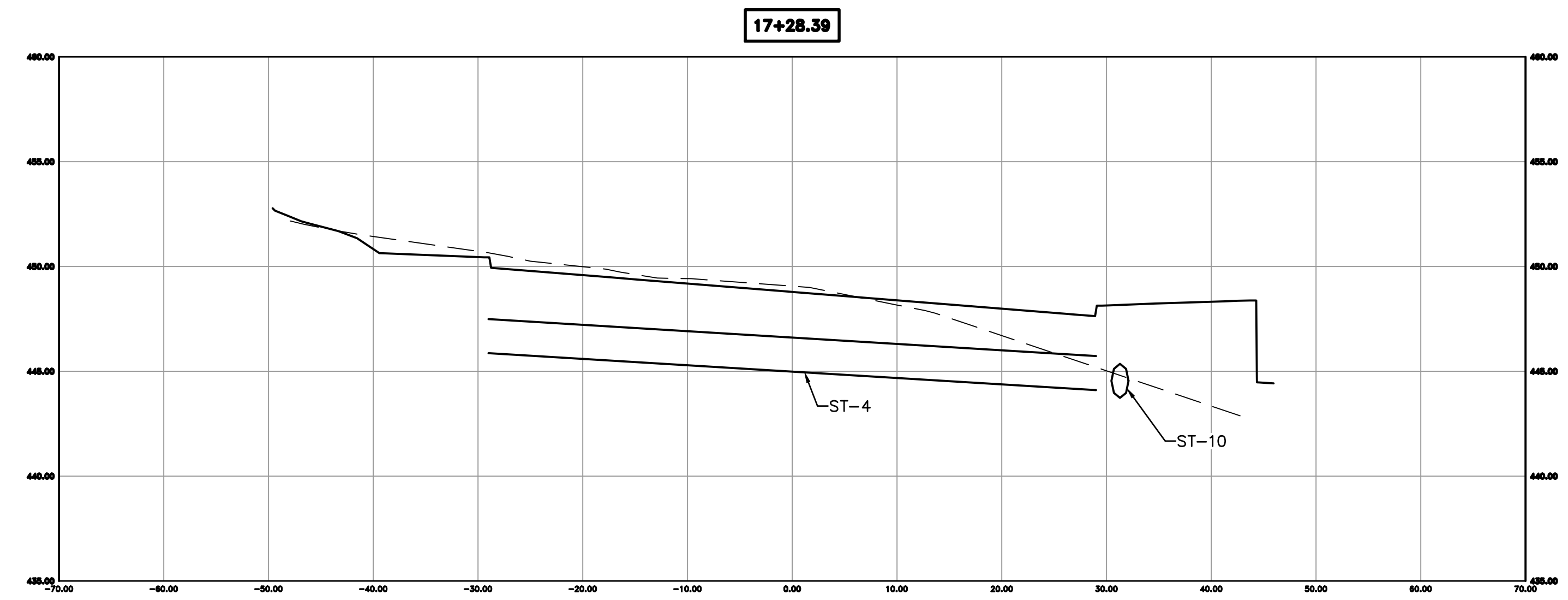
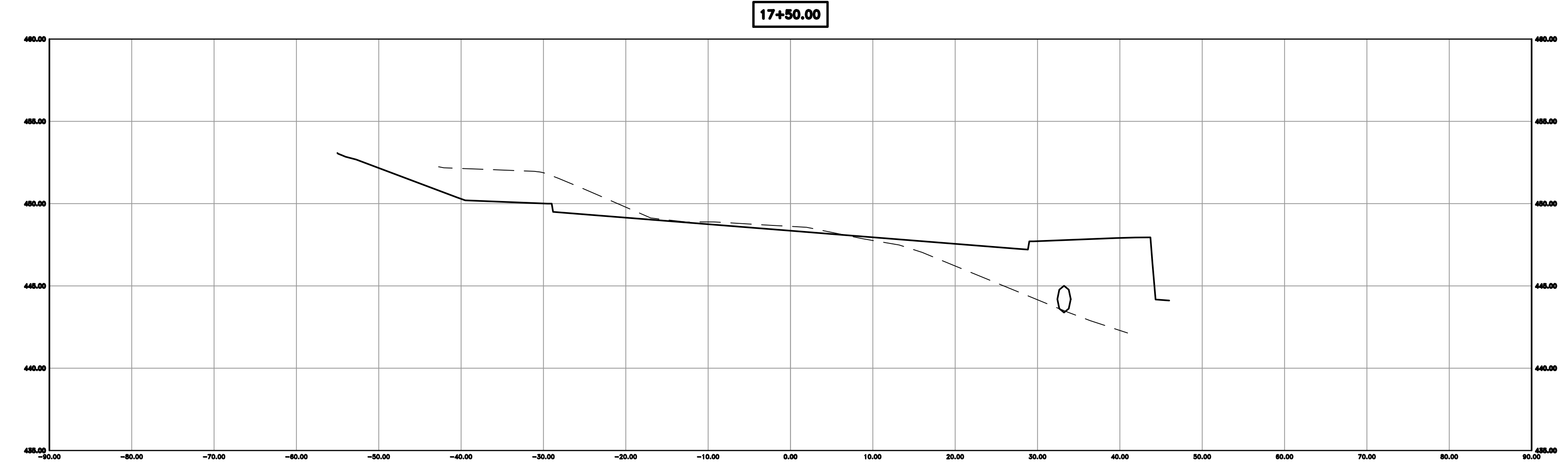
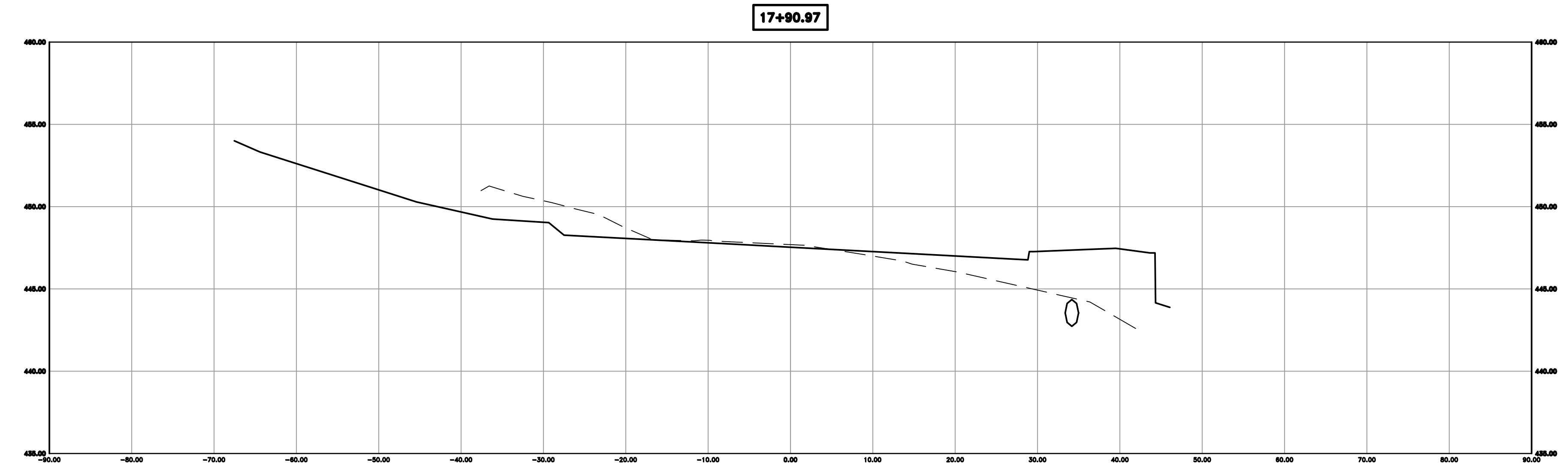
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD IMPROVEMENTS  
CROSS SECTION SHEET 9

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

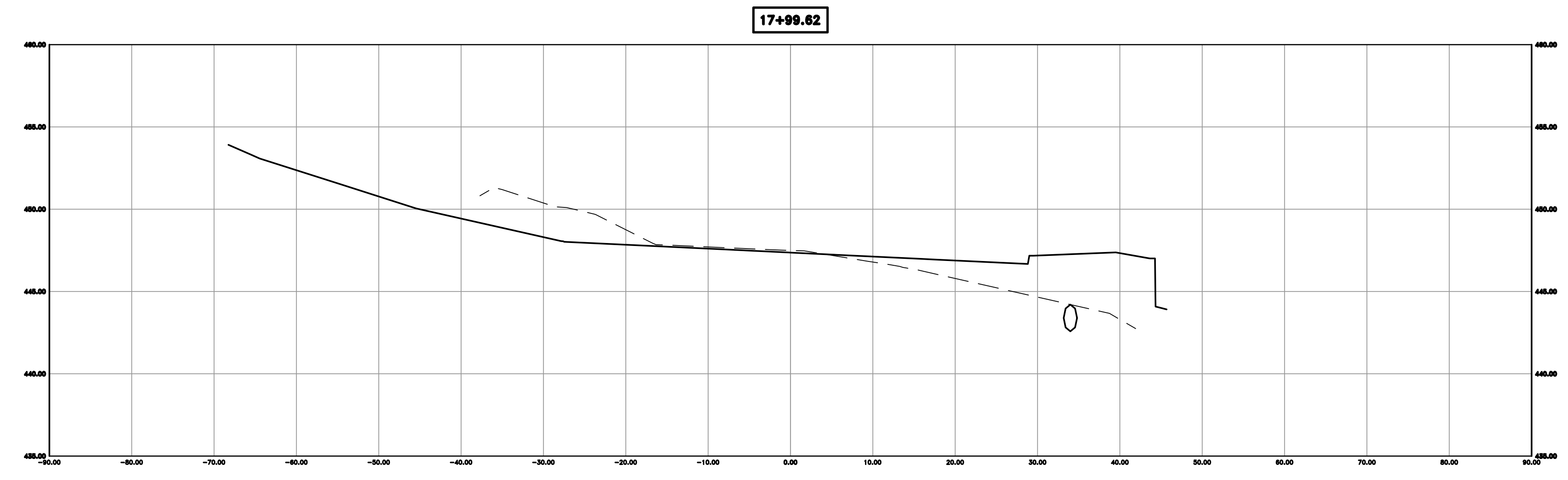
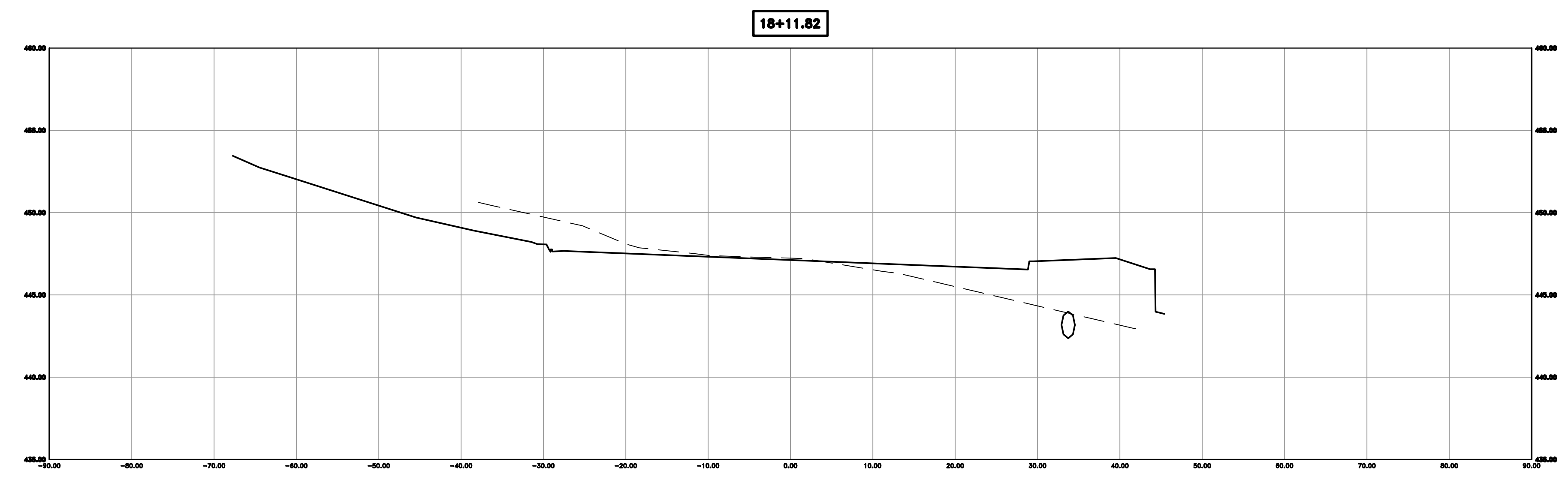
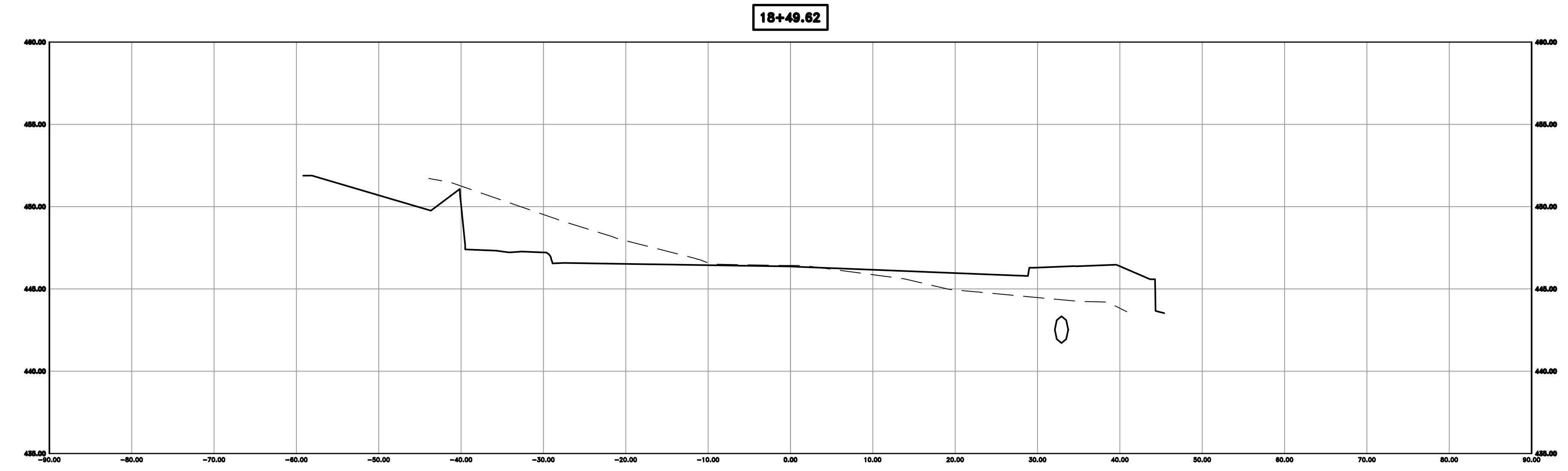


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H: 1"=10'  
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C33



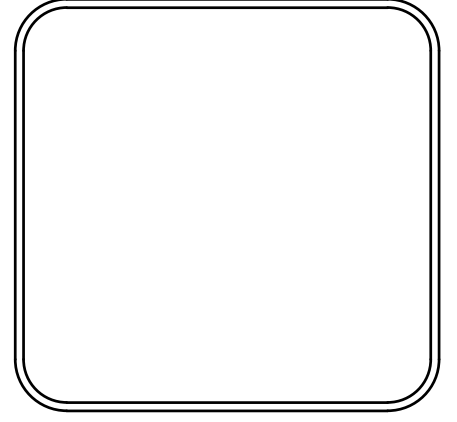
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CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD IMPROVEMENTS  
CROSS SECTION SHEET 10

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



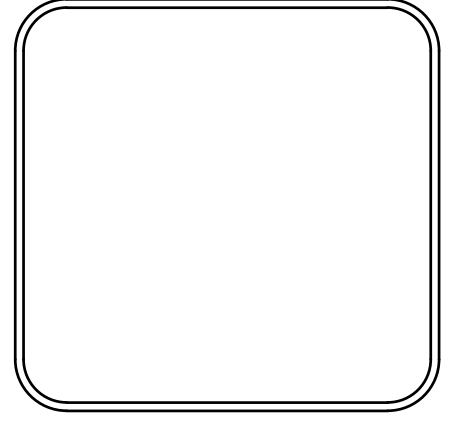
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DESIGNED  
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DATE  
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SCALE  
H: 1"=10'  
V: 1"=5'  
PROJECT NO.  
06-17-222B  
SHEET NO.  
C34

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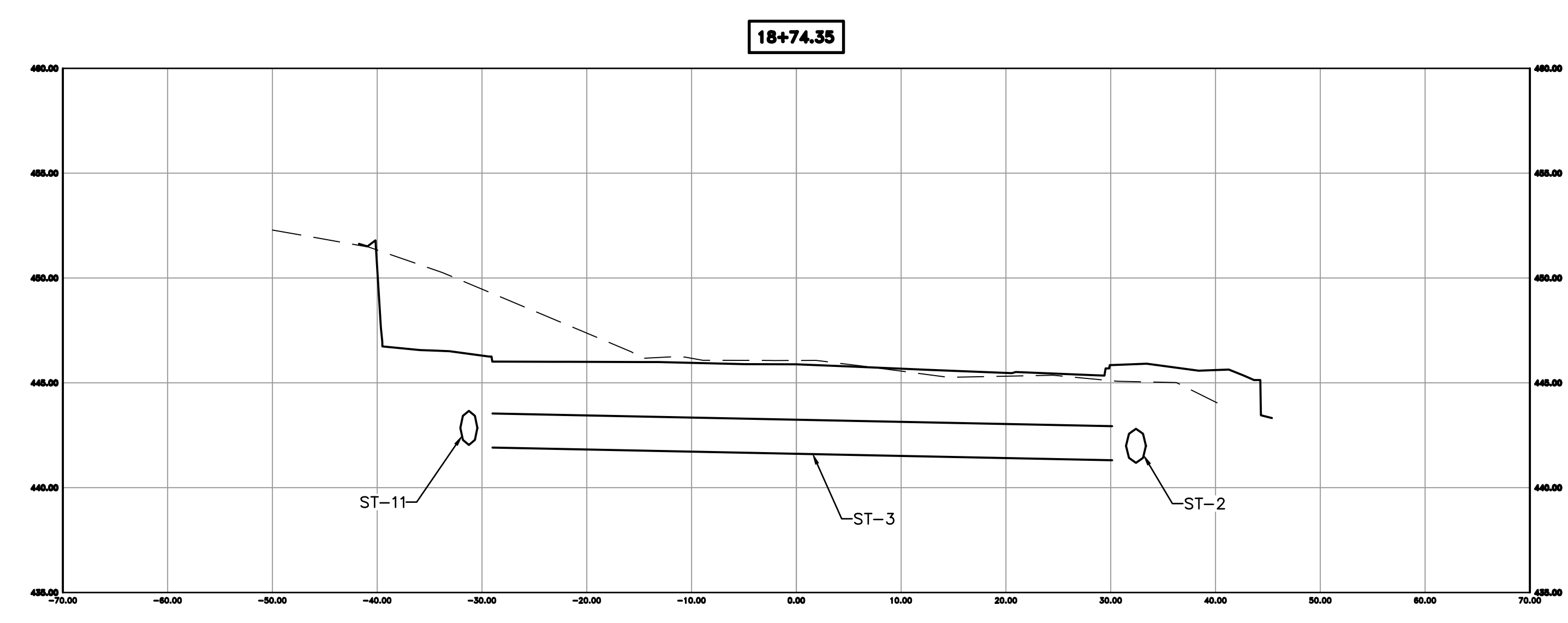
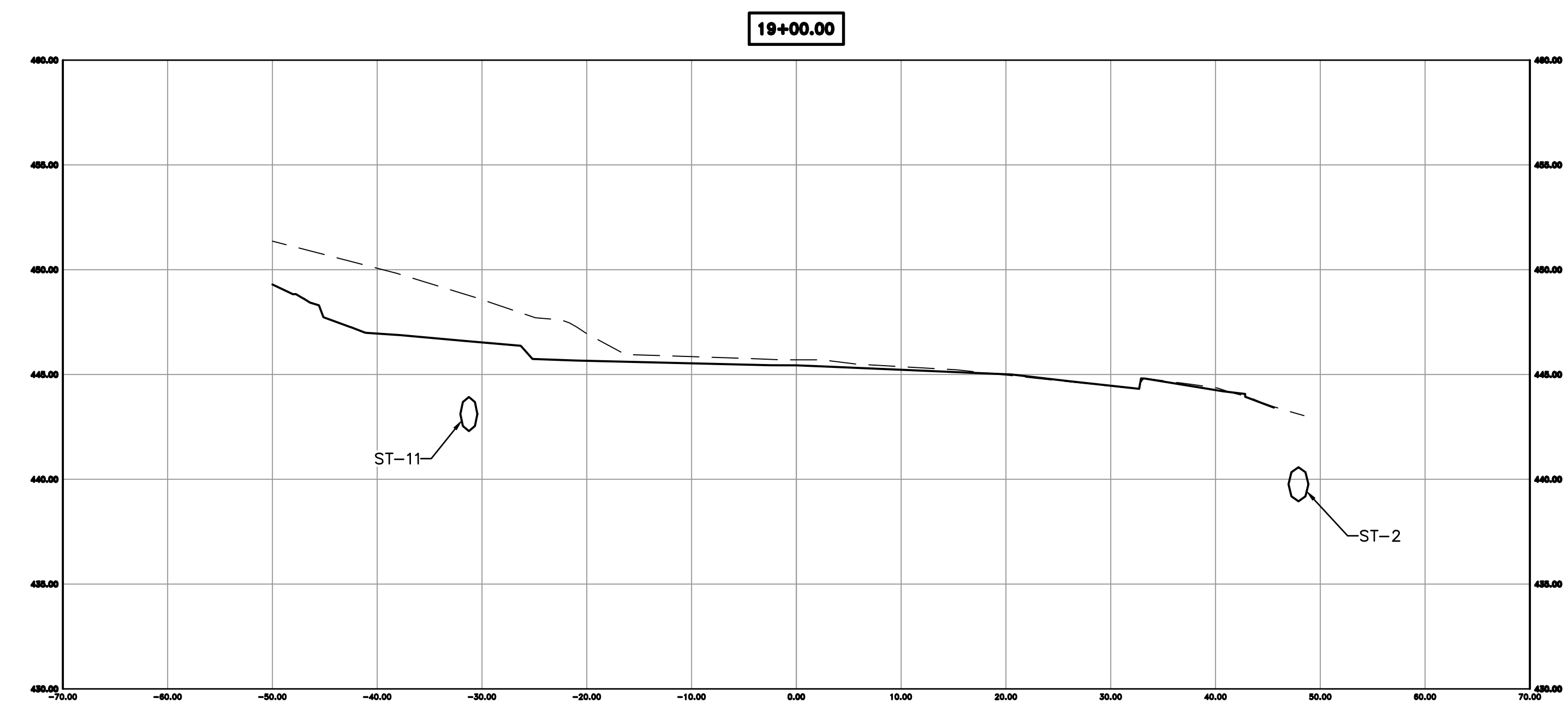
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD IMPROVEMENTS  
CROSS SECTION SHEET 11

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CIVIL ENGINEERING  
701 W. MARKHAM  
LITTLE ROCK, ARKANSAS 72201



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DESIGNED	TDF
CHECKED	BAP
DATE	08-06-2019
SCALE	H: 1"=10' V: 1"=5'
PROJECT NO.	06-17-222B
SHEET NO.	C35



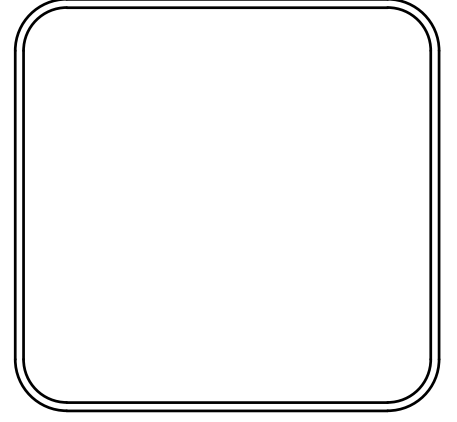


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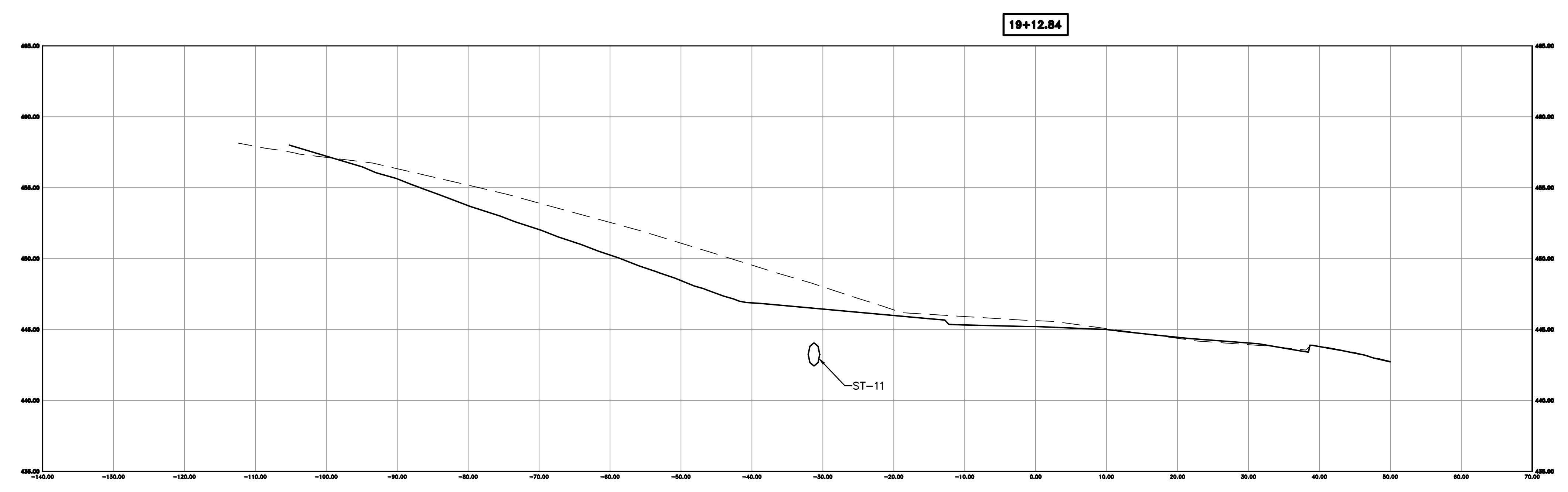
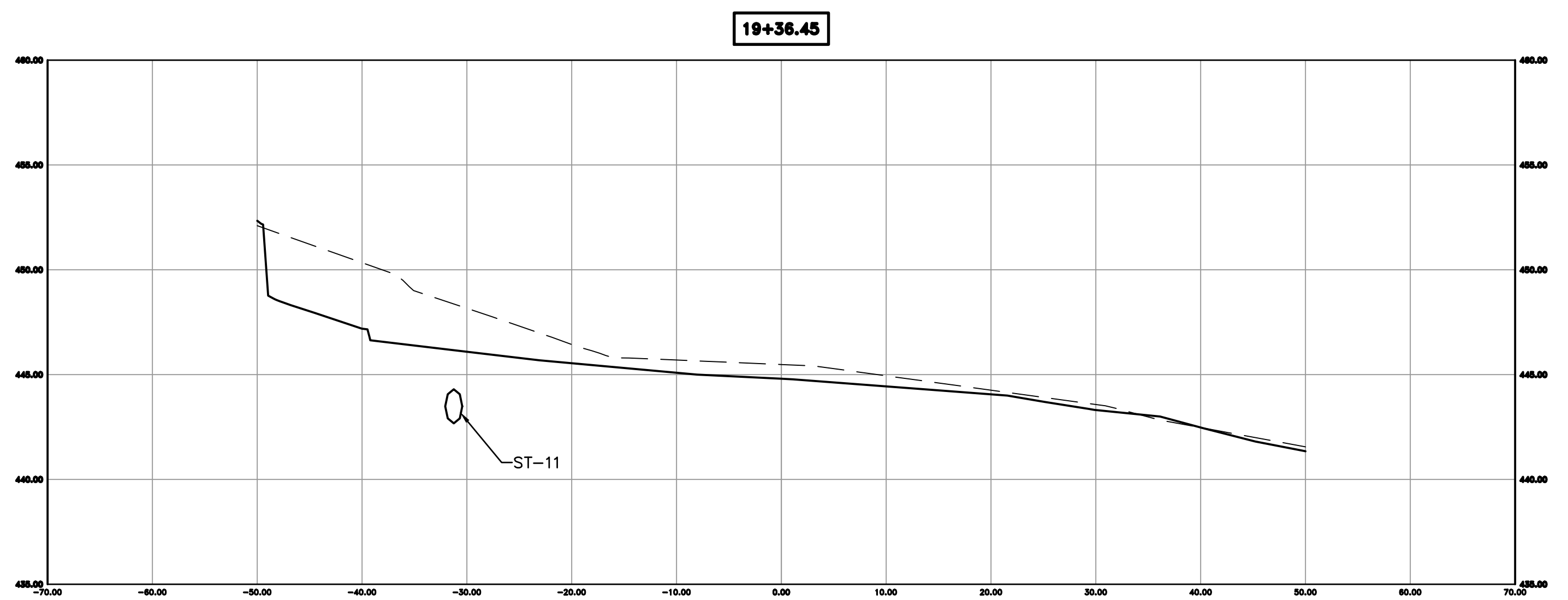
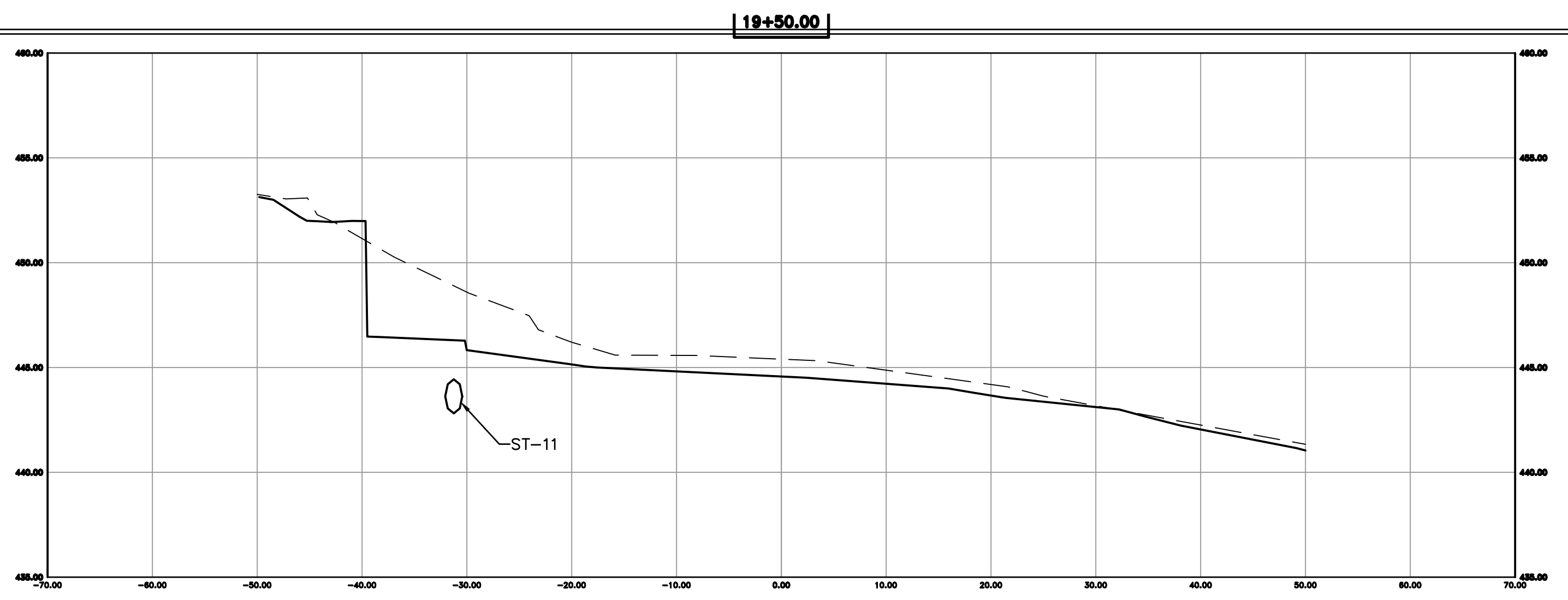
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CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD IMPROVEMENTS  
CROSS SECTION SHEET 12

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CIVIL ENGINEERING  
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LITTLE ROCK, ARKANSAS 72201



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DATE	08-06-2019
SCALE	H: 1"=10' V: 1"=5'
PROJECT NO.	06-17-222B
SHEET NO.	C36

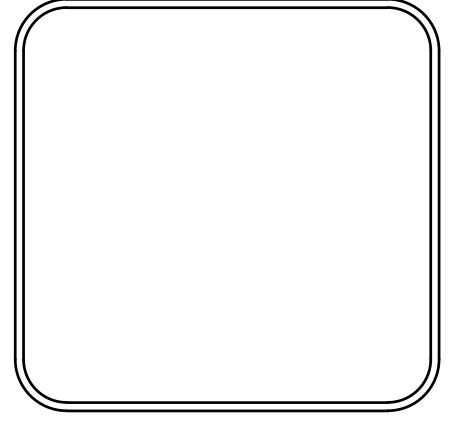
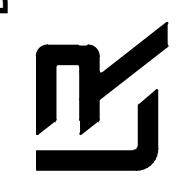


90% SUBMITTAL

REVISIONS	DATE

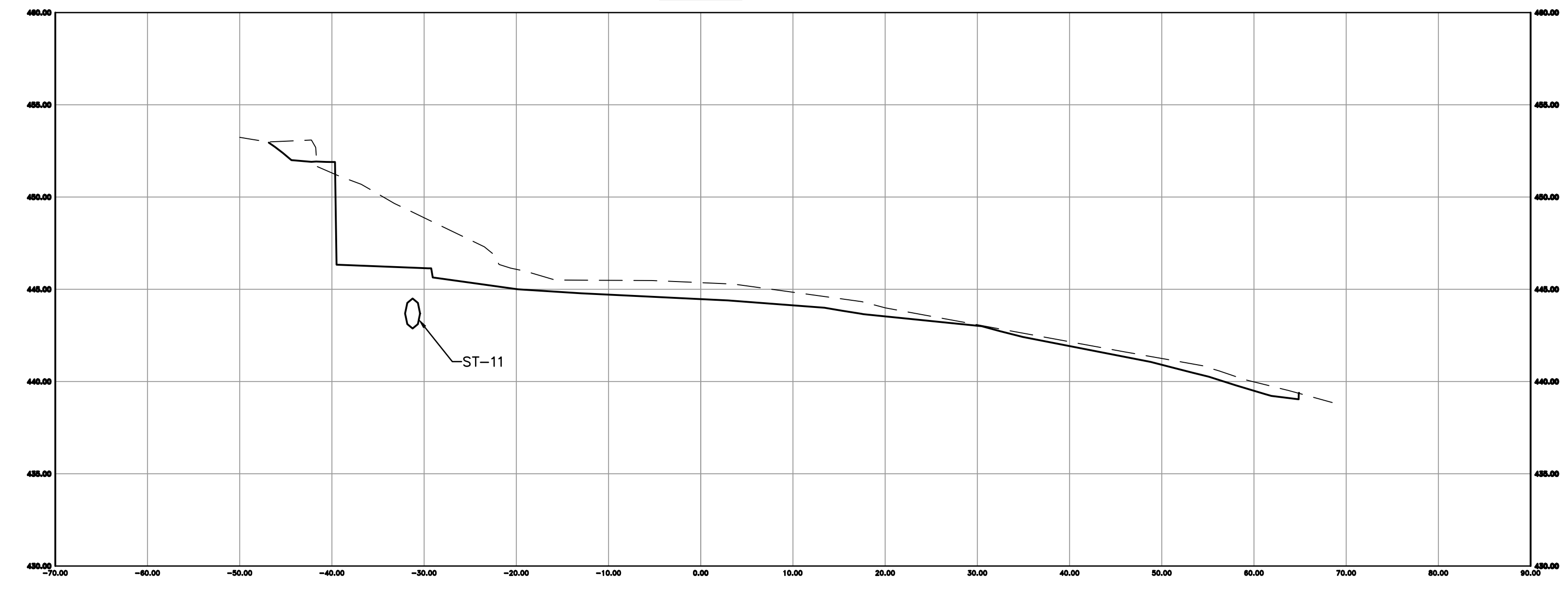
CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD IMPROVEMENTS  
CROSS SECTION SHEET 13

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



DRAWN BY	TH
DESIGNED	TDF
CHECKED	BAP
DATE	08-06-2019
SCALE	H: 1"=10' V: 1"=5'
PROJECT NO.	06-17-222B
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19+56.07



19+53.00

