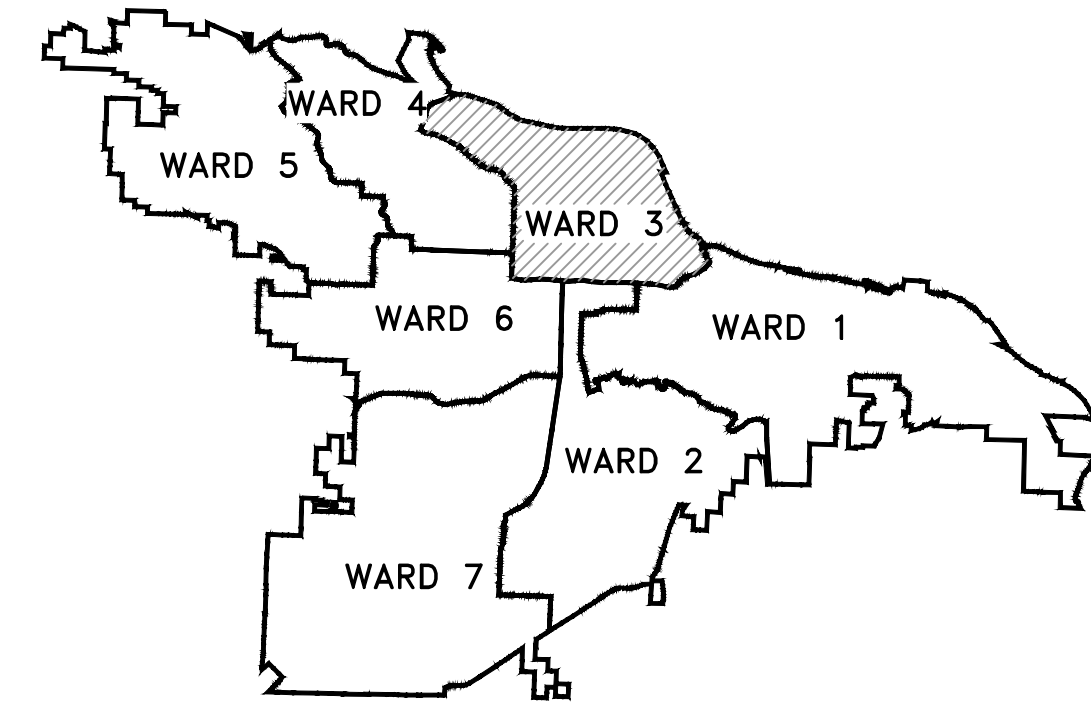
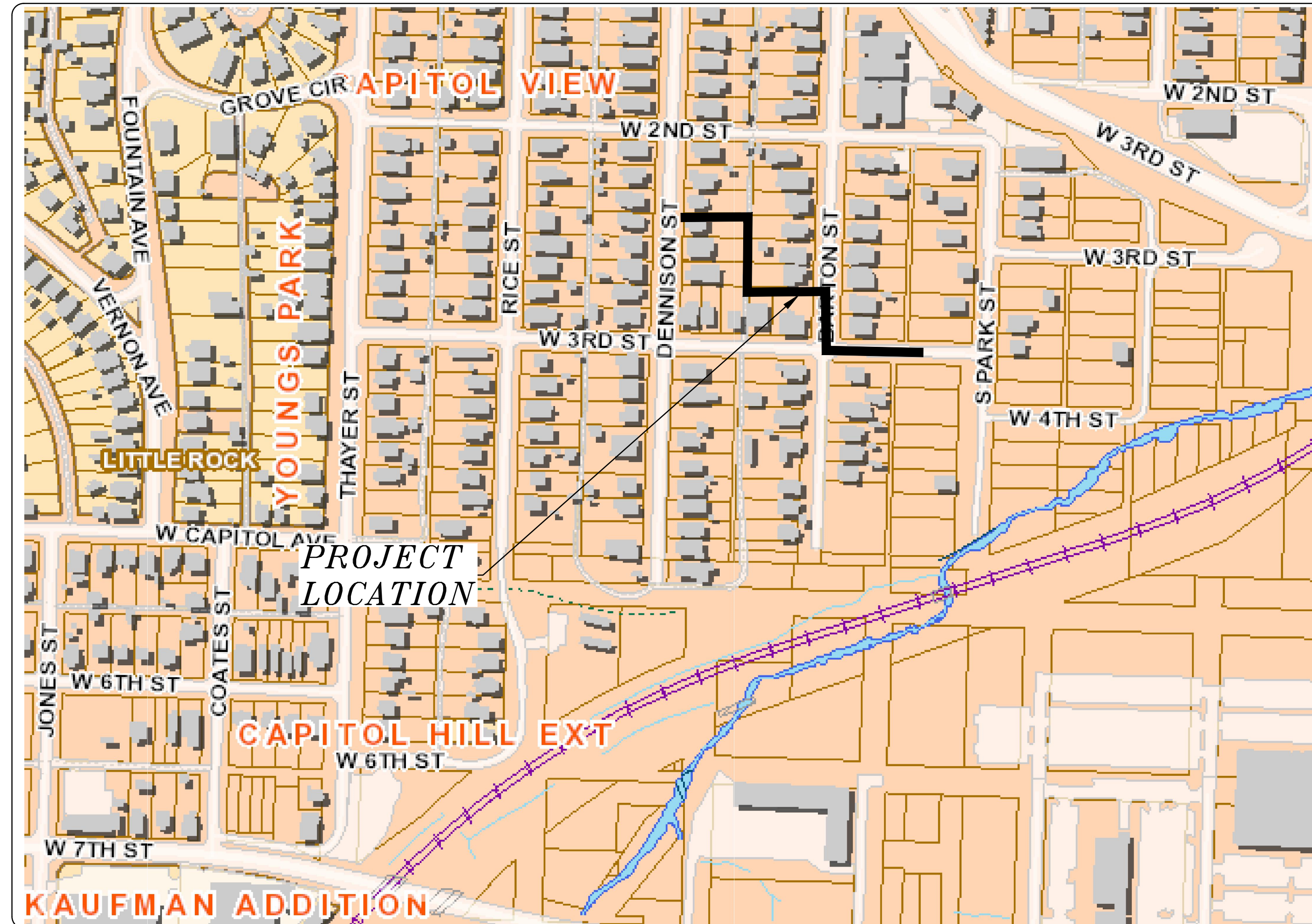


# CLR PROJECT 3-17-DR-101 BARTON STREET DRAINAGE IMPROVEMENTS LITTLE ROCK, ARKANSAS



PROJECT LOCATION - WARD 1



SHEET NO.	TITLE
C1	COVER SHEET
C2	LEGEND
C3	TYPICAL SECTIONS & DETAILS
C4	PLAN & PROFILE - STA. 0+00 TO STA. 2+50
C5	PLAN & PROFILE - STA. 2+50 TO STA. 7+49
C6	DRIVEWAY PLANS
C7	CROSS-SECTIONS - STA. 0+00 TO STA. 2+50
C8	CROSS-SECTIONS - STA. 3+00 TO STA. 5+50
C9	CROSS-SECTIONS - STA. 6+00 TO 7+49
C10	EROSION CONTROL PLAN



**2019-2021  
BOND PROGRAM**

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



Know what's below.  
Call before you dig.



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LITTLE ROCK, AR 72223  
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**PRELIMINARY- 90% SUBMITTAL**

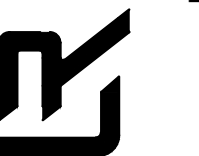
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
BARTON STREET - DRAINAGE IMPROVEMENTS

COVER SHEET



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



DRAWN BY	KP
DESIGNED	KP
CHECKED	JB
DATE	10.16.19
SCALE	NTS
PROJECT NO.	3-17-DR-101
SHEET NO.	C1



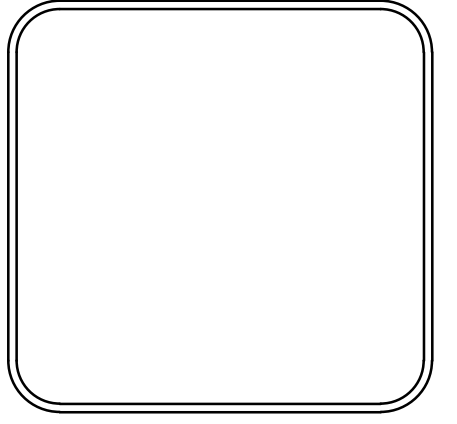
<b>CLR PROJECT# 3-17-DR-101</b>			
BARTON STREET- DRAINAGE			
October 16, 2019			
ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY
2.01	SITE PREPARATION	L.S.	1
4.01	AGGREGATE BASE COURSE	TON	41
6.01	ACHM SURFACE COURSE	TON	18
7.06	CONCRETE DRIVEWAY (6" THICK), STANDARD FINISH	SF	2,159
8.01	CONCRETE CURB AND GUTTER (CLASS 1)	L.F.	59
9.04	CONCRETE SIDEWALK (4" THICK)	S.F.	1,653
10.01	JUNCTION BOX	EA.	4
10.03	GRATE INLET - 1 (GI-1)	E.A.	1
10.05	CURB INLET - 5' BOX (24" PIPE)	EA.	2
10.05	CURB INLET - 5' BOX (36" PIPE)	EA.	1
10.07	WING 3' EXTENSION	EA.	6
11.05	REINFORCED CONCRETE PRECAST HEADWALL (18")	EA.	1
13.18S	SIDE DRAIN, 18"	L.F.	12
13.24C	CROSS DRAIN, 24" (PIPE 9)	L.F.	30
13.24S	SIDE DRAIN, 24"	L.F.	543
13.36S	SIDE DRAIN, 36"	L.F.	177
13.61	TIE INTO EXISTING JUNCTION BOX	EA.	2
13.63	CONCRETE PLUG ON EXISTING STORM DRAIN	E.A.	5
14.01	SOLID SODDING, BURMUDA	S.Y.	300
16.01	MAINTENANCE OF TRAFFIC	L.S.	1
18.01	REMOVE AND REPLACE FENCE	L.F.	174
18.55	WATER FOR DUST CONTROL	GAL	200
19.01	FINAL CLEANUP	L.S.	1
24.01	CONSTRUCTION ENTRANCE (CO)	EA.	4
24.06	SEDIMENT BARRIER, SILT FENCE (SD1)	EA.	3
24.09	SEDIMENT BARRIER, BLOCK (SD4)	EA.	3
24.11	SILT FENCE - TYPE A (SFA)	L.F.	1,043
24.16	DISTURBED AREA STABILIZATION - TEMPORARY STABILIZATION (TS1)	AC.	1
24.18	DISTURBED AREA STABILIZATION - PERMANENT GRASSING (TS3)	AC.	1
26.10	TRENCH AND EXCAVATION SAFETY	L.S.	1
SP	COMBINATION INLET-1 (CI-1) (TYPE SPECIAL) AS DETAILED	EA.	1

EXISTING		PROPOSED
IRON ROD	○ IR	CONTOUR
PK NAIL	○ PK	SPOT ELEVATION
R.R. SPIKE	○ RR(Sp)	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 - INLET WITH SINGLE EXTENSION
GUARD POST (BOLLARD)	● GP	STORM SEWER - INLET WITH DOUBLE EXTENSION
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	⊕	CURB
UTILITY POLE	⊕	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	— X — X —	SILT FENCE - TYPE B
OVERHEAD UTILITY	— OHP — OHP —	SILT FENCE - TYPE C
UNDERGROUND TELEPHONE	— UGT — UGT — UGT —	STORM DRAIN OUTLET PROTECTION
UNDERGROUND ELECTRIC	— UGE — UGE — UGE —	SURFACE ROUGHENING
WATER LINE	— 8"W — 8"W — 8"W —	DISTURBED AREA STABILIZATION -TEMPORARY STABILIZATION
SEWER LINE	— SAN —	DISTURBED AREA STABILIZATION -TEMPORARY GRASSING
GAS LINE	— GAS — GAS — GAS —	DISTURBED AREA STABILIZATION -PERMANENT GRASSING
STORM SEWER/CULVERT	— 24" CMP/RCP/DIP —	MATting/BLANKETS
CONTOUR LINE	— 650 —	

REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**BARTON STREET- DRAINAGE IMPROVEMENTS**

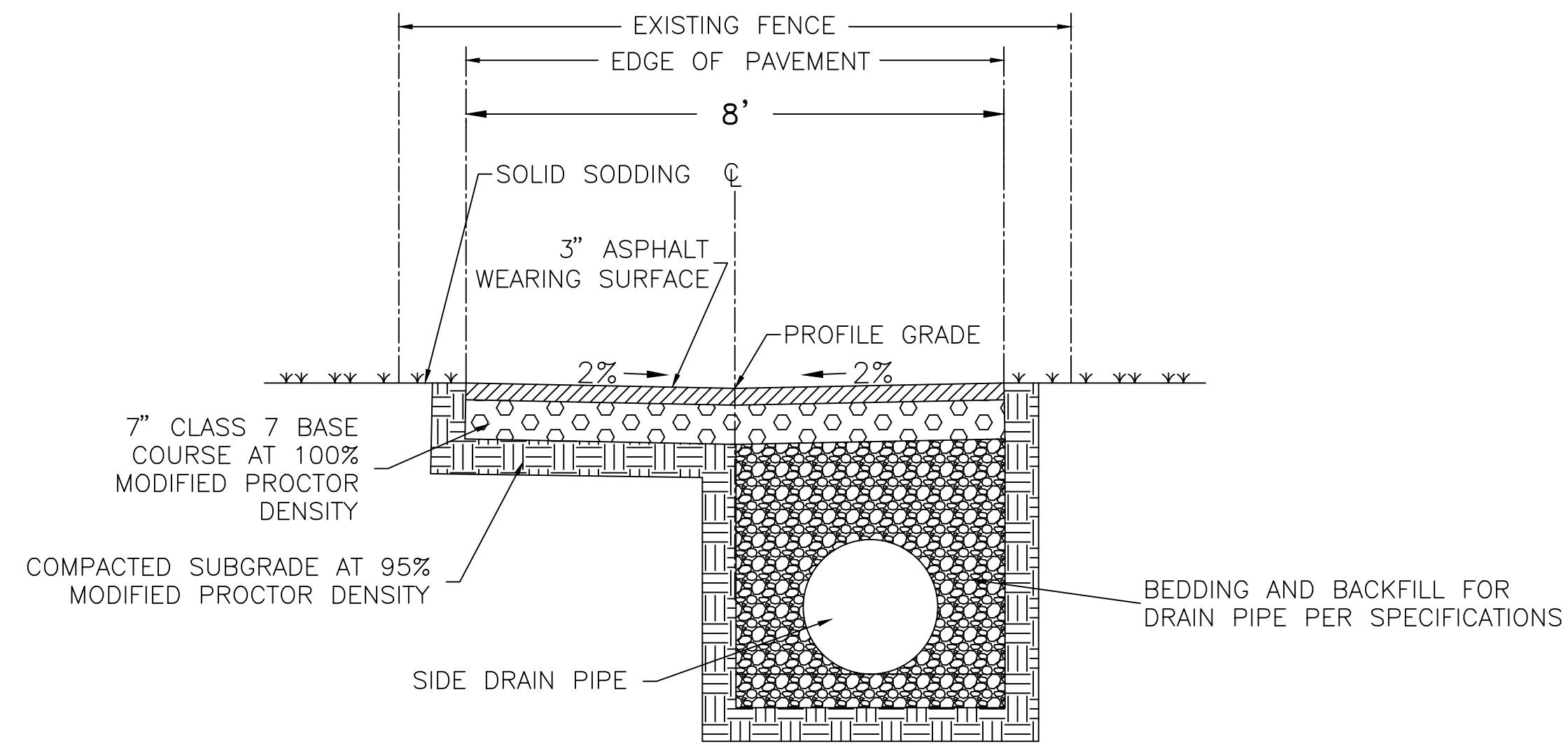
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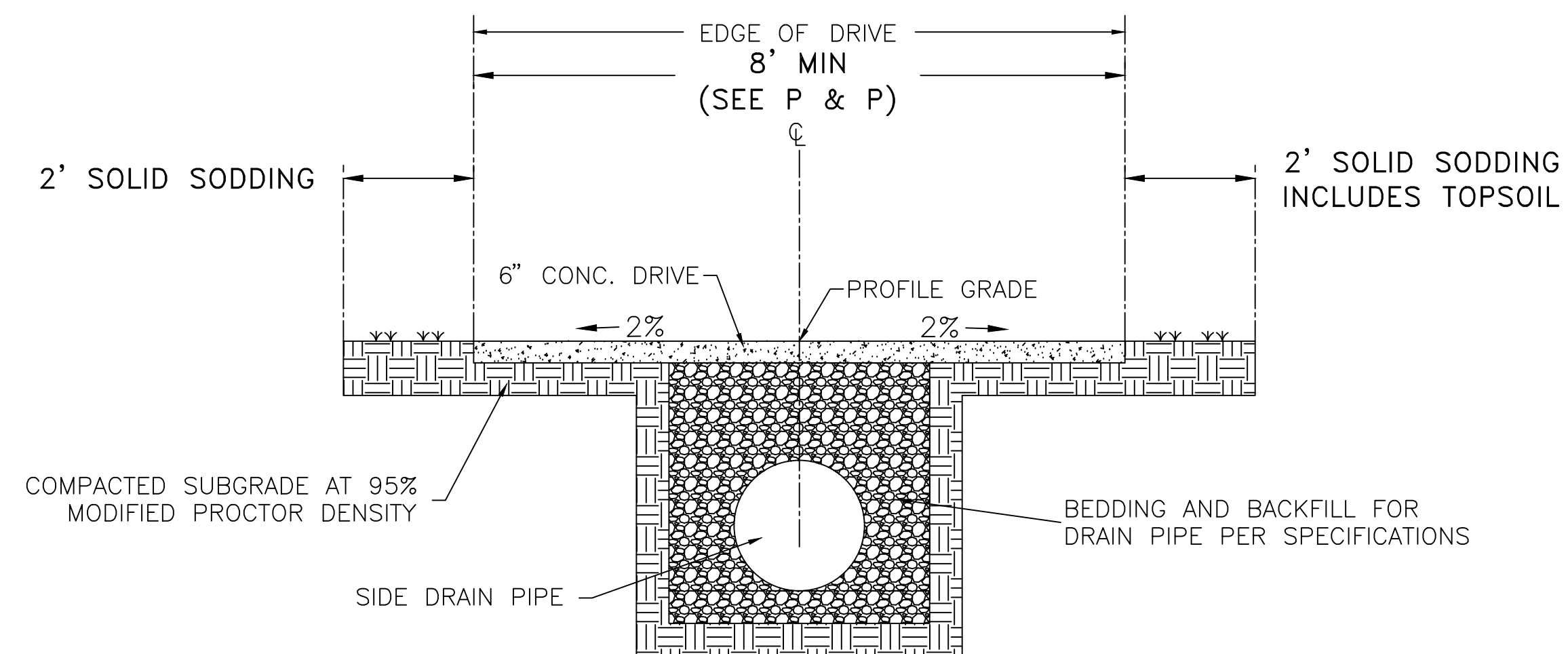
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<b>DESIGNED</b> KP
<b>CHECKED</b> KP
<b>DATE</b> 10.16.19
<b>SCALE</b> NTS
<b>PROJECT NO.</b> 3-17-DR-101
<b>SHEET NO.</b> C2

**PRELIMINARY- 90% SUBMITTAL**

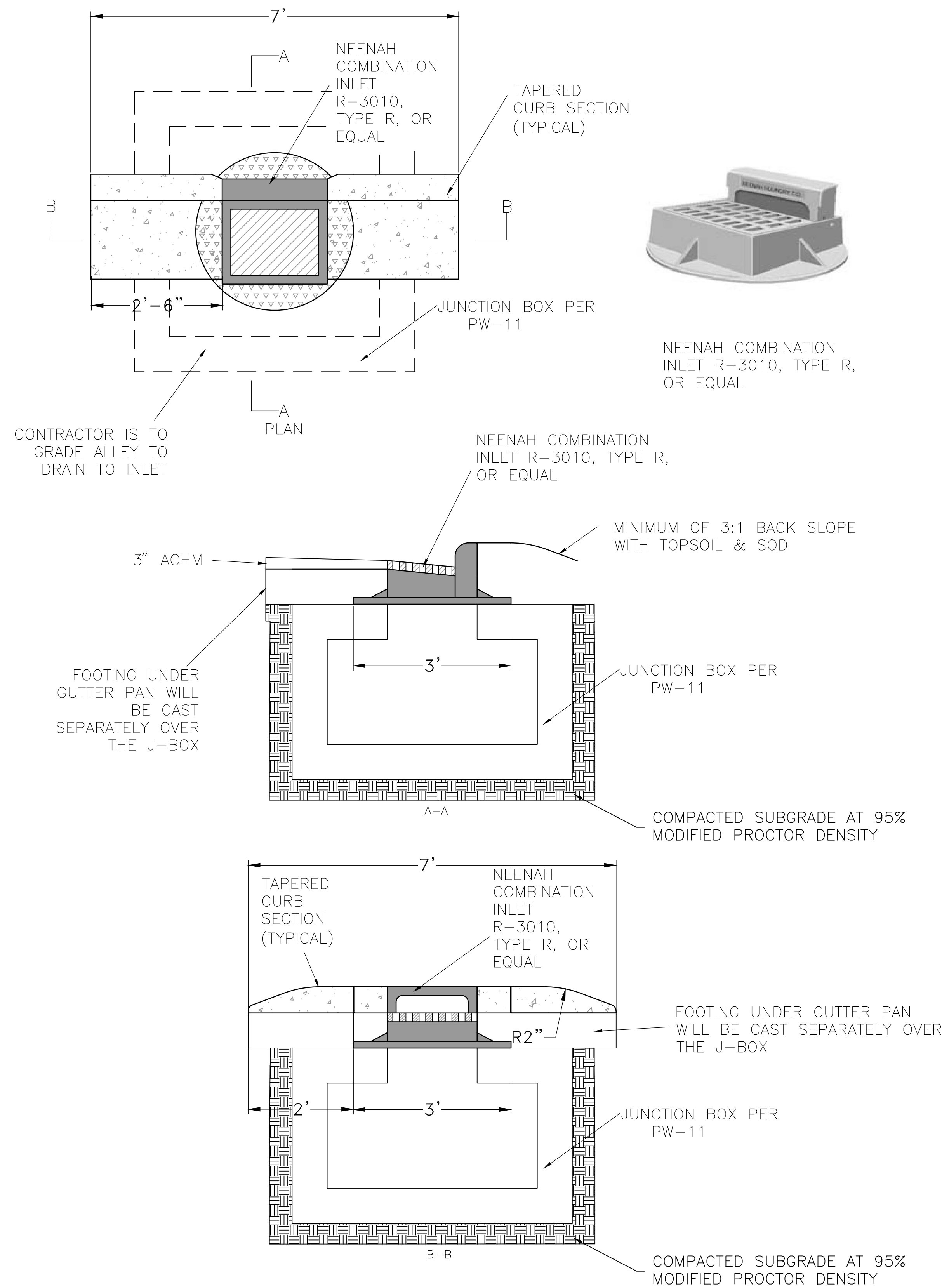
REVISIONS	DATE



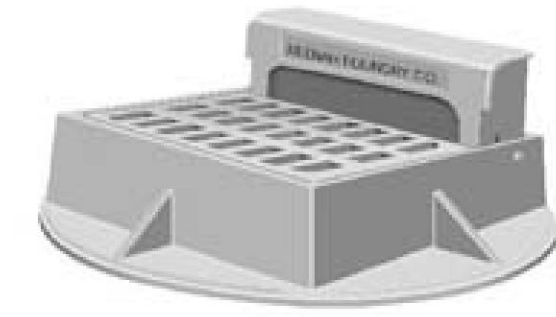
TYPICAL SECTION  
STA 1+60 TO 3+10



TYPICAL SECTION  
STA 3+10 TO 4+59



COMBINATION INLET DETAILS  
NTS



NEENAH COMBINATION INLET R-3010, TYPE R, OR EQUAL

CITY OF LITTLE ROCK, ARKANSAS  
BARTON STREET- DRAINAGE IMPROVEMENTS  
TYPICAL SECTIONS & DETAILS

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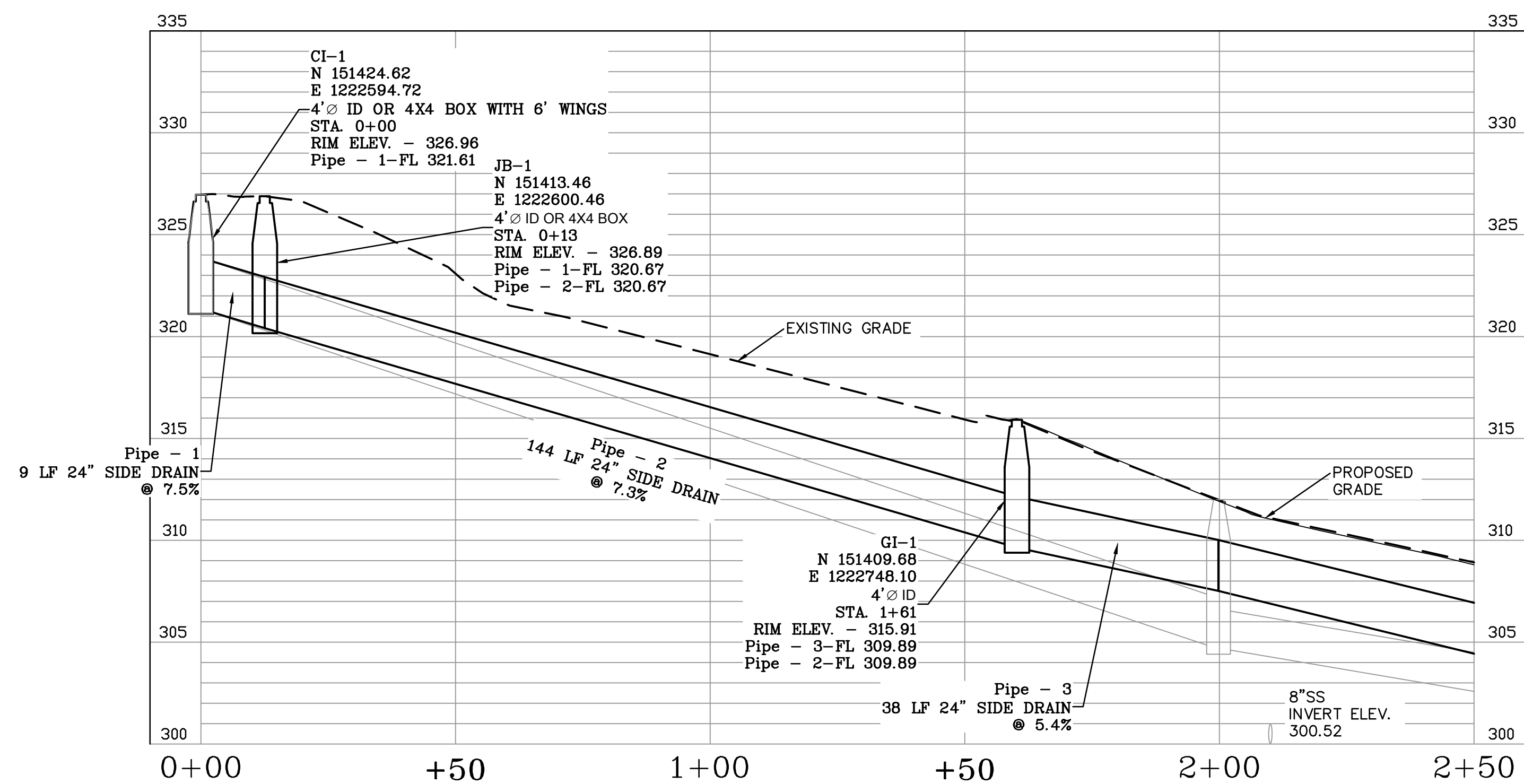
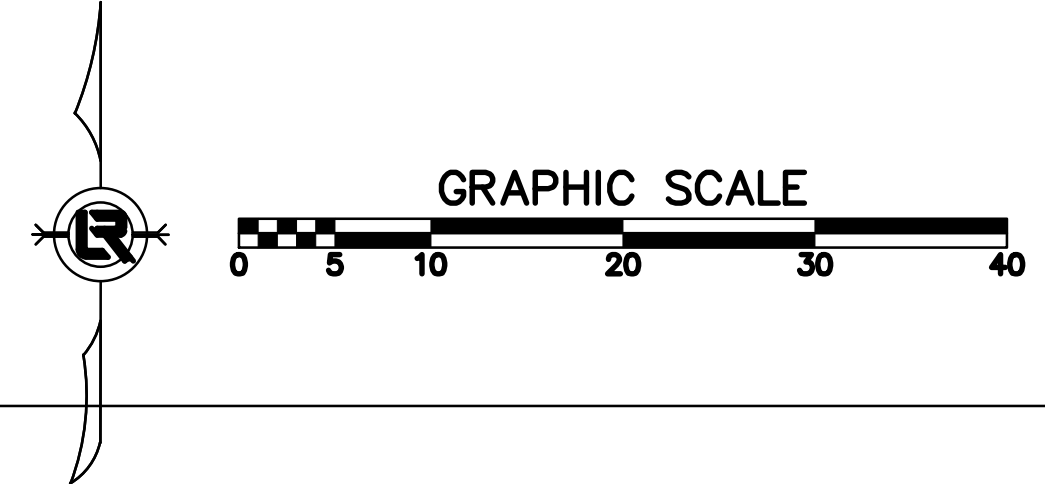
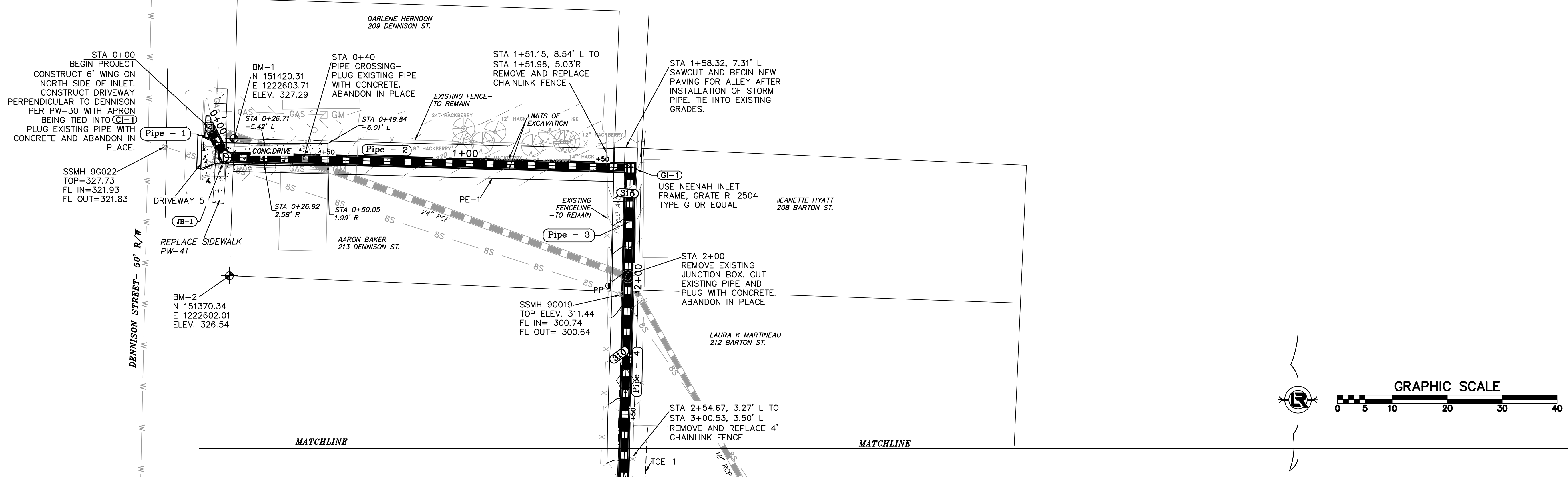
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DESIGNED KP
CHECKED JB
DATE 10.16.19
SCALE NTS
PROJECT NO. 3-17-DR-101
SHEET NO. C3

**PRELIMINARY- 90% SUBMITTAL**




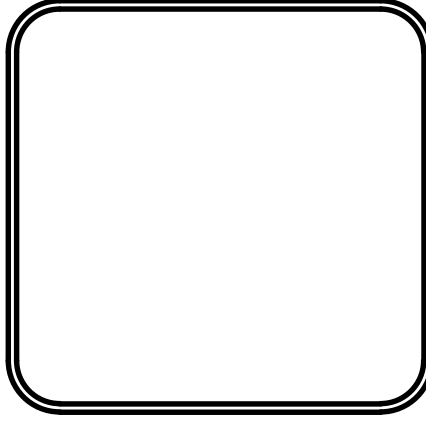
REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**BARTON STREET DRAINAGE IMPROVEMENTS**  
 STA 0+00 TO STA 2+50 PLAN & PROFILE



**PRELIMINARY- 90% SUBMITTAL**

  
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<b>DRAWN BY</b> JB
<b>DESIGNED</b> KP
<b>CHECKED</b> RB
<b>DATE</b> 10.16.19
<b>SCALE</b> 1"=20'H, 1"=5'V
<b>PROJECT NO.</b> 3-17-DR-101
<b>SHEET NO.</b> C4

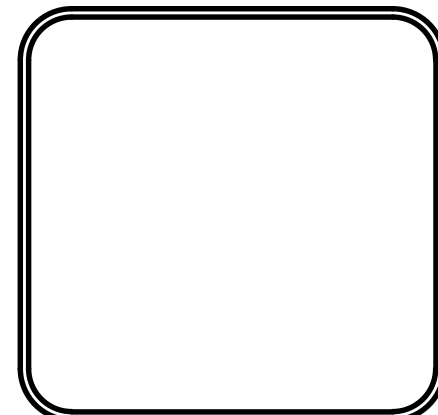
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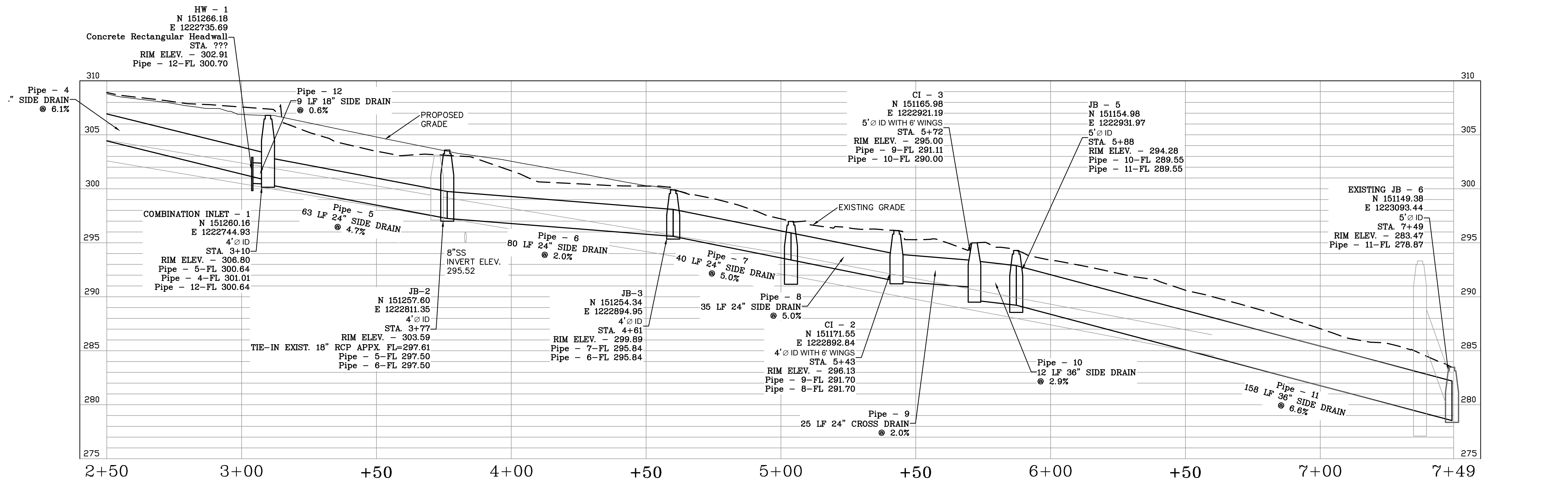
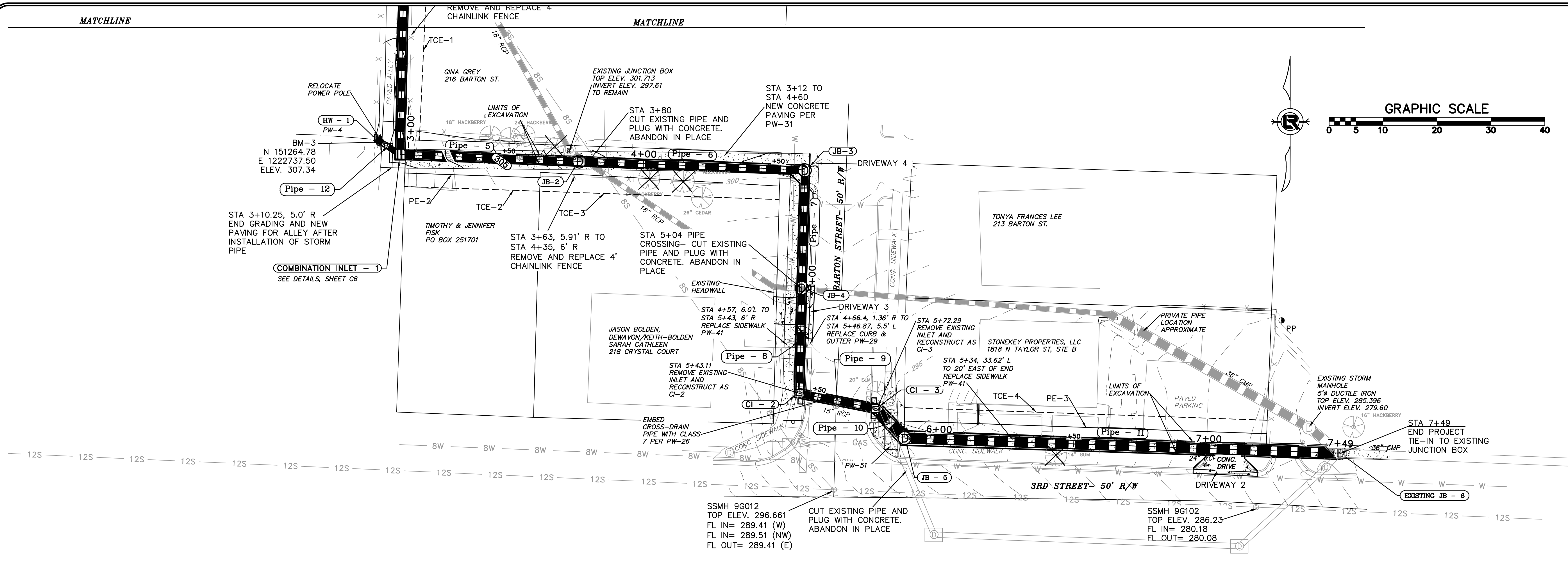
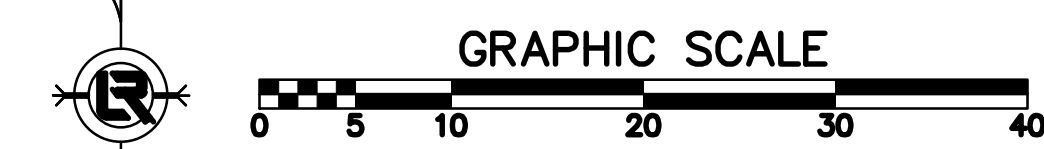
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CITY OF LITTLE ROCK, ARKANSAS  
 BARTON STREET DRAINAGE IMPROVEMENTS  
 STA 2+50 TO STA 5+71 PLAN & PROFILE

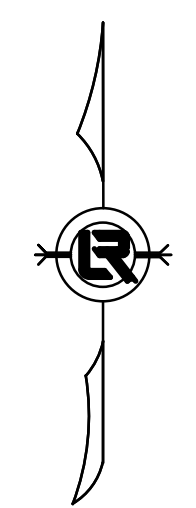
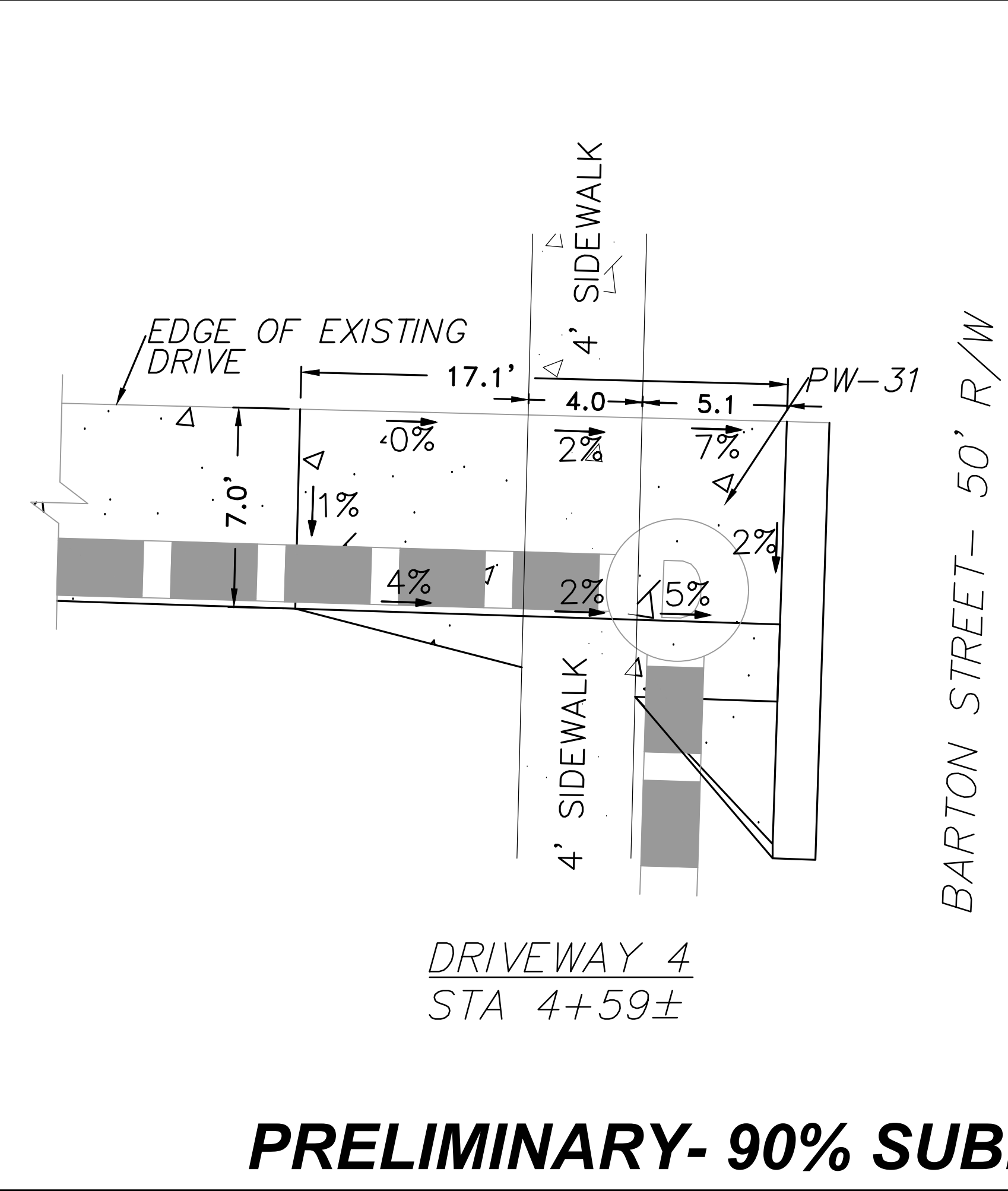
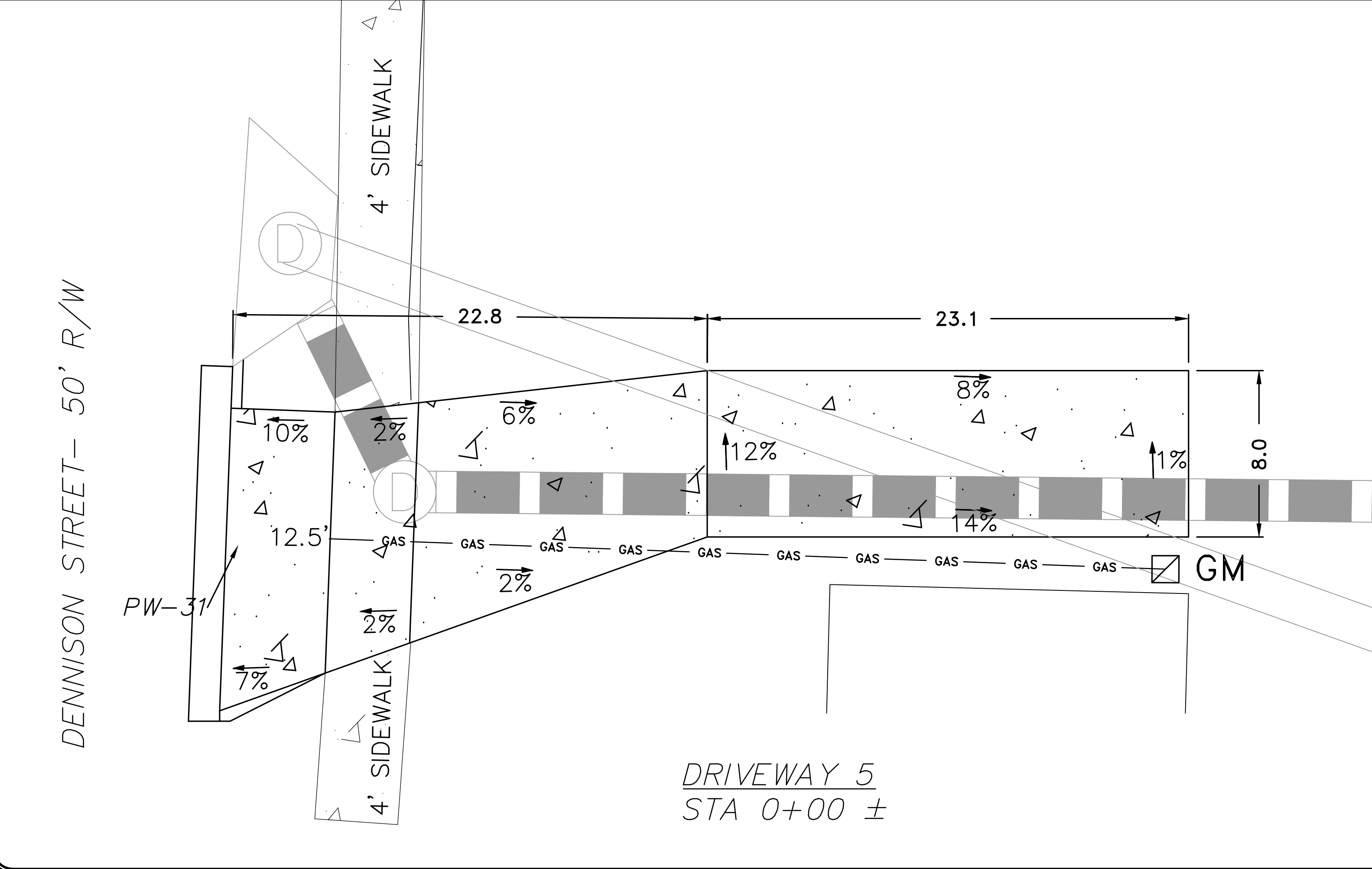
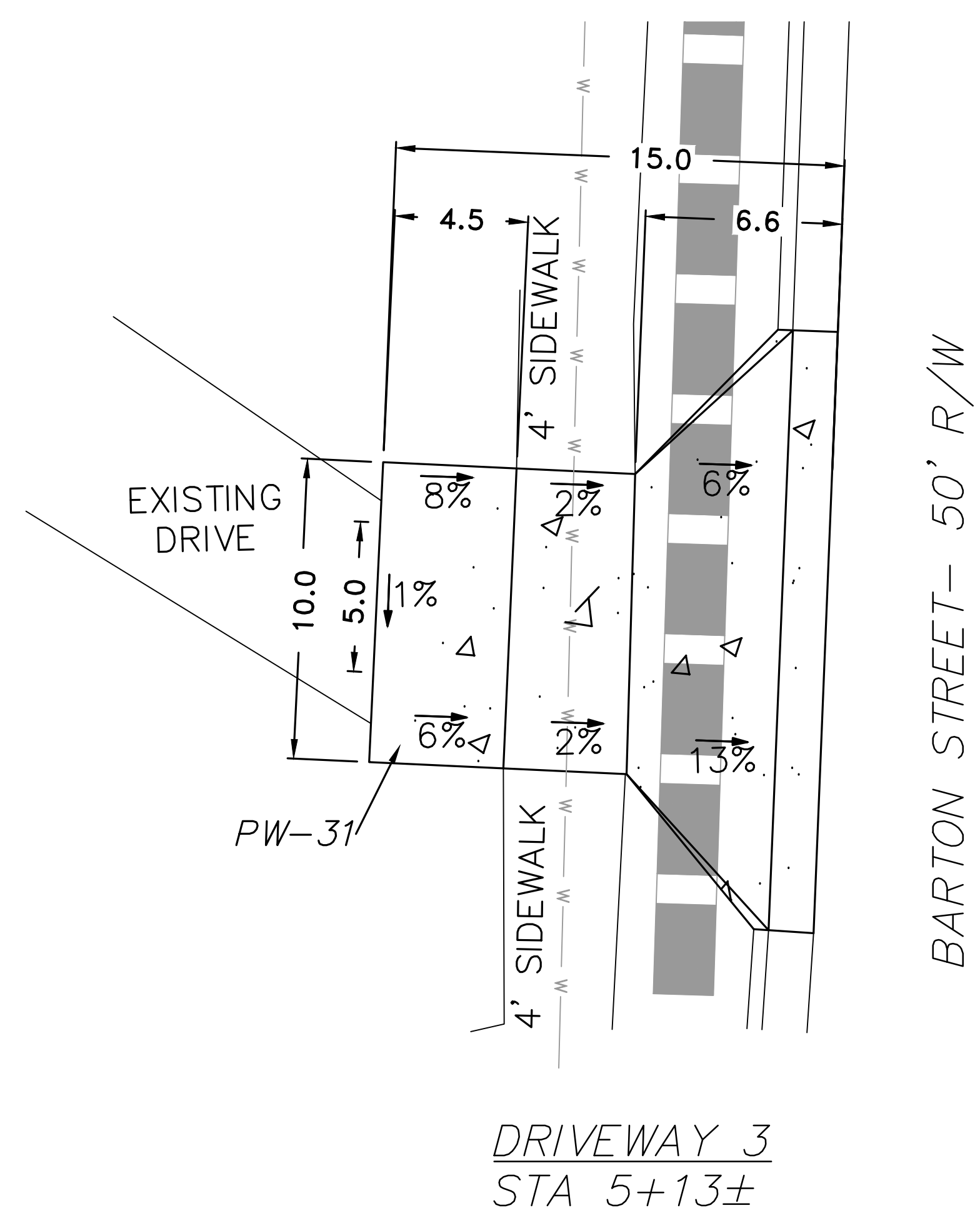
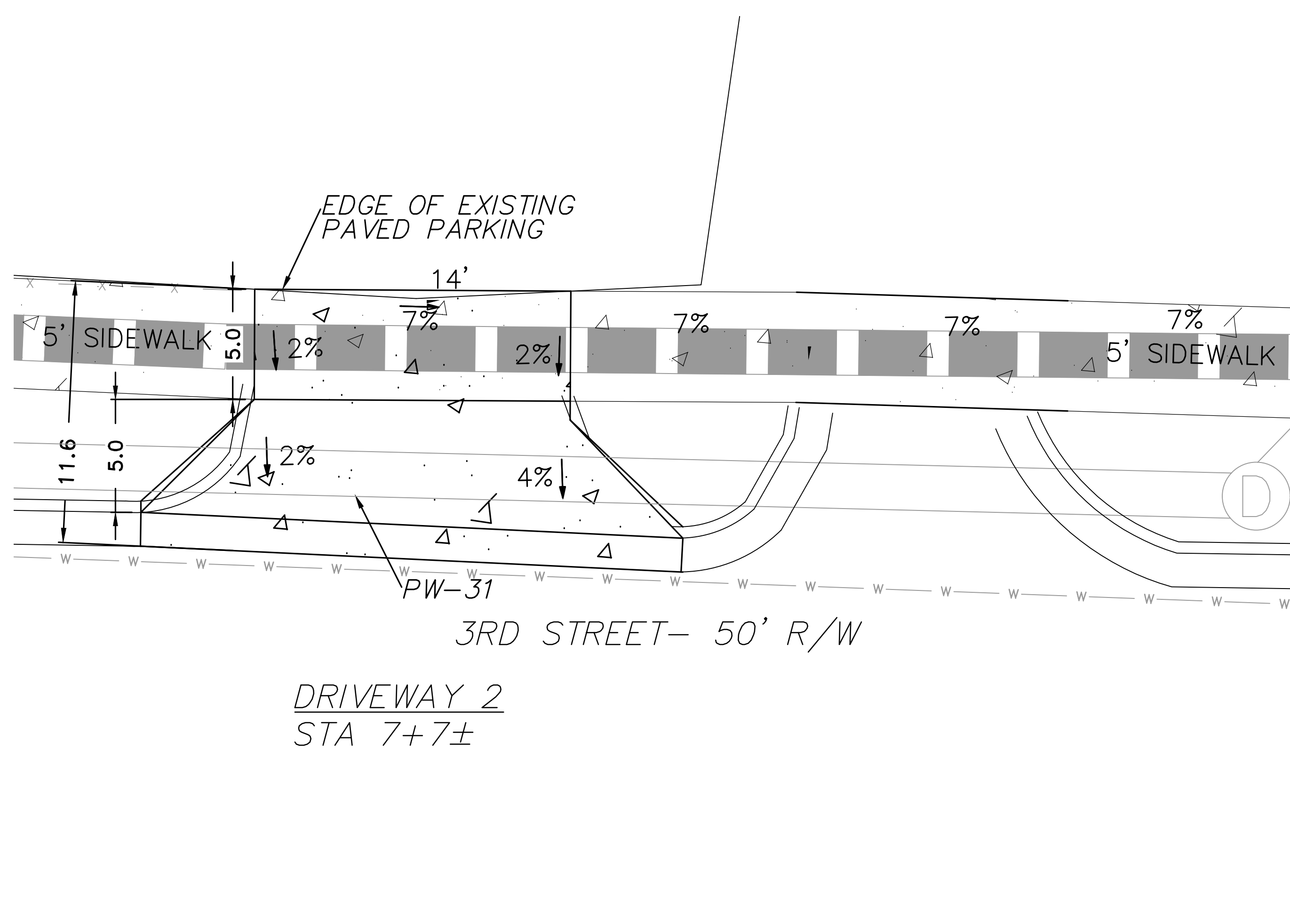
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 CIVIL ENGINEERING  
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 DESIGNED  
 KP  
 CHECKED  
 RB  
 DATE  
 10.16.19  
 SCALE  
 1"=20'H, 1"=5'V  
 PROJECT NO.  
 3-17-DR-101  
 SHEET NO.  
 C5



**PRELIMINARY- 90% SUBMITTAL**

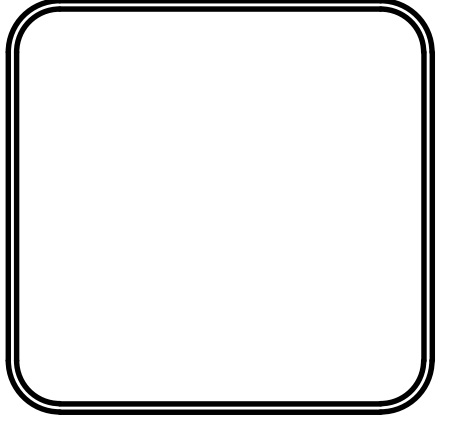


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CITY OF LITTLE ROCK, ARKANSAS  
BARTON STREET DRAINAGE IMPROVEMENTS  
DRIVEWAY PLANS


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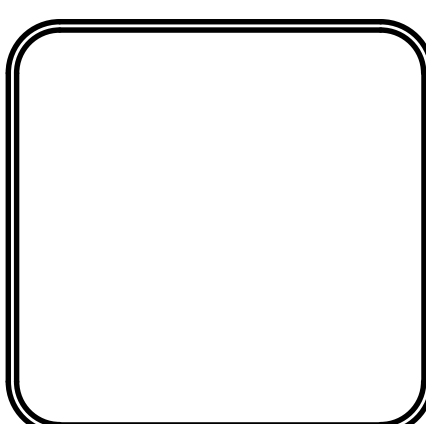


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DESIGNED KP
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DATE 10.16.19
SCALE 1:4
PROJECT NO. 3-17-DR-101
SHEET NO. C6

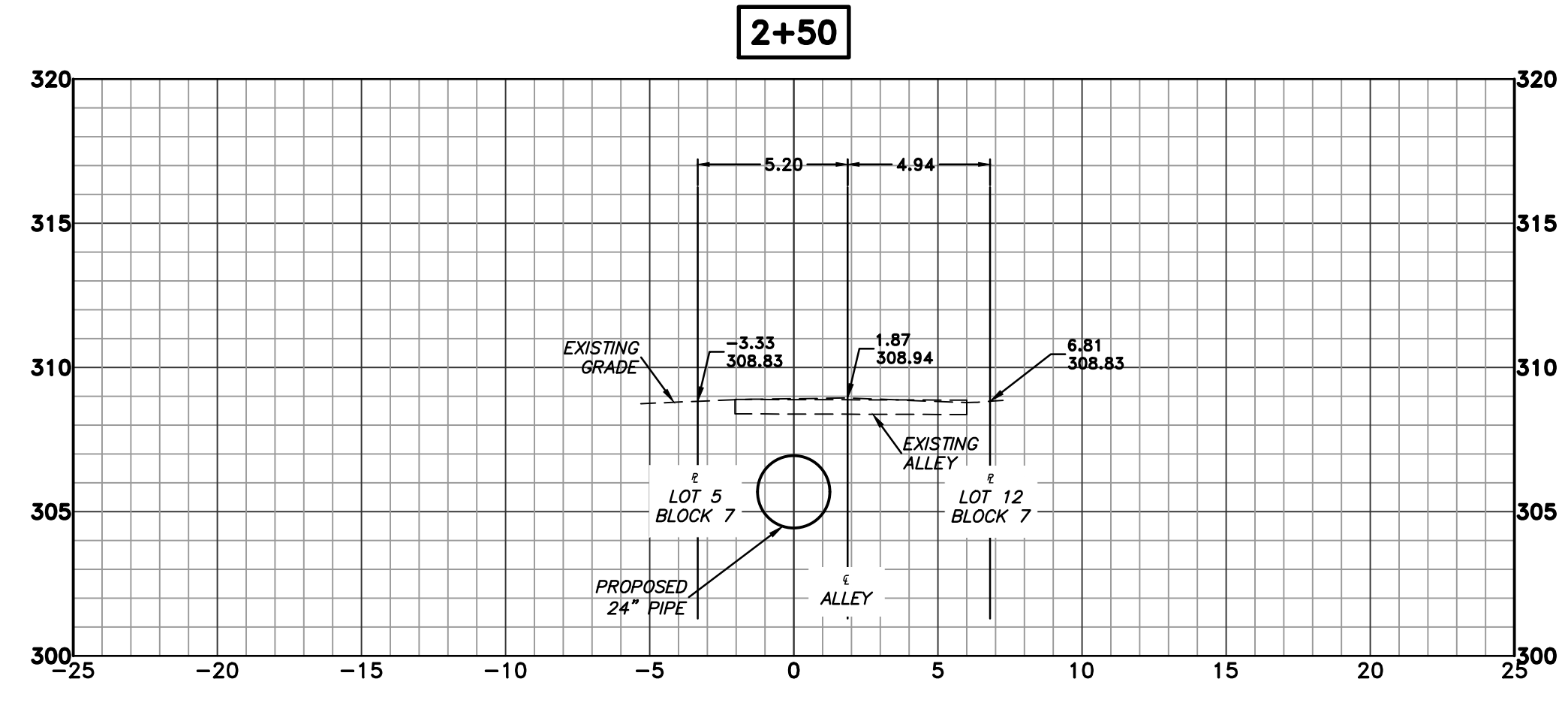
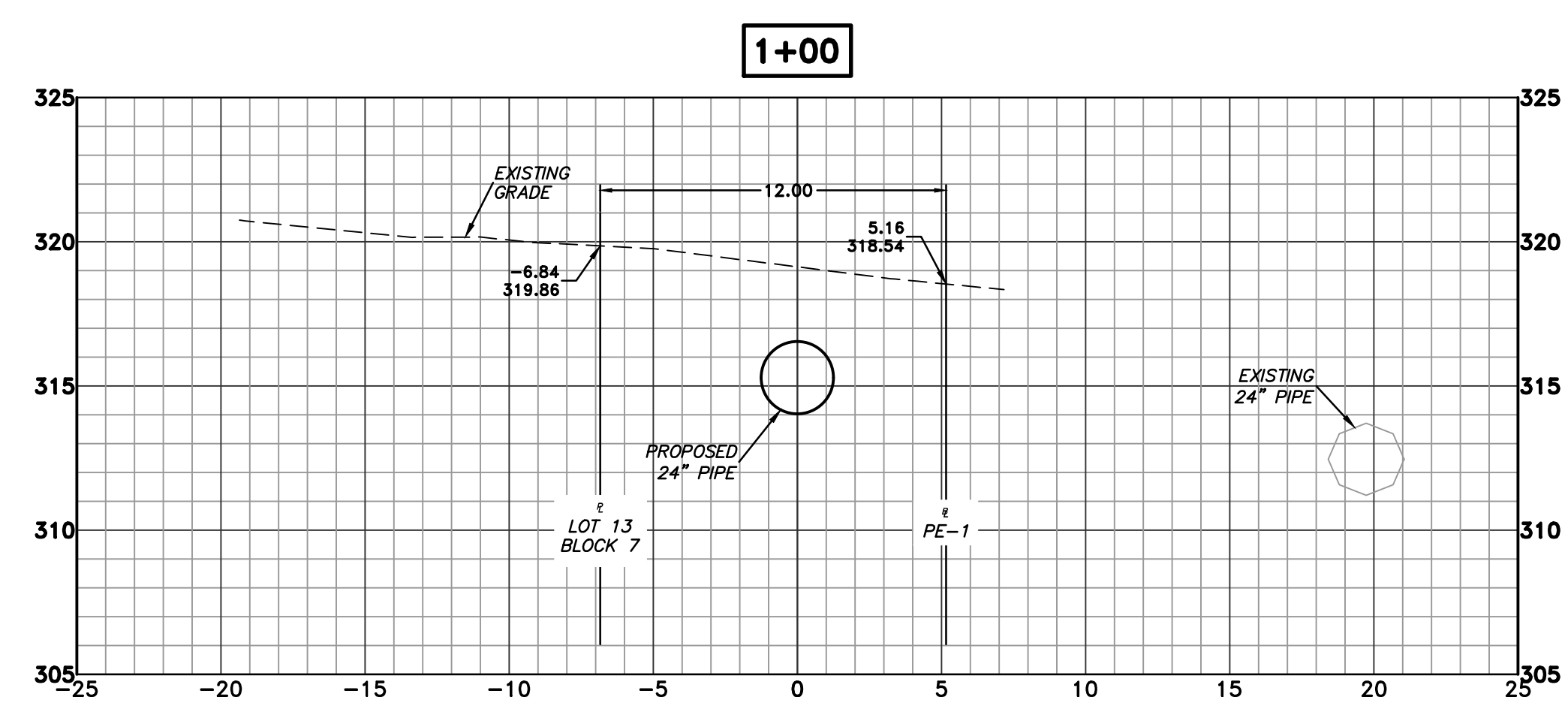
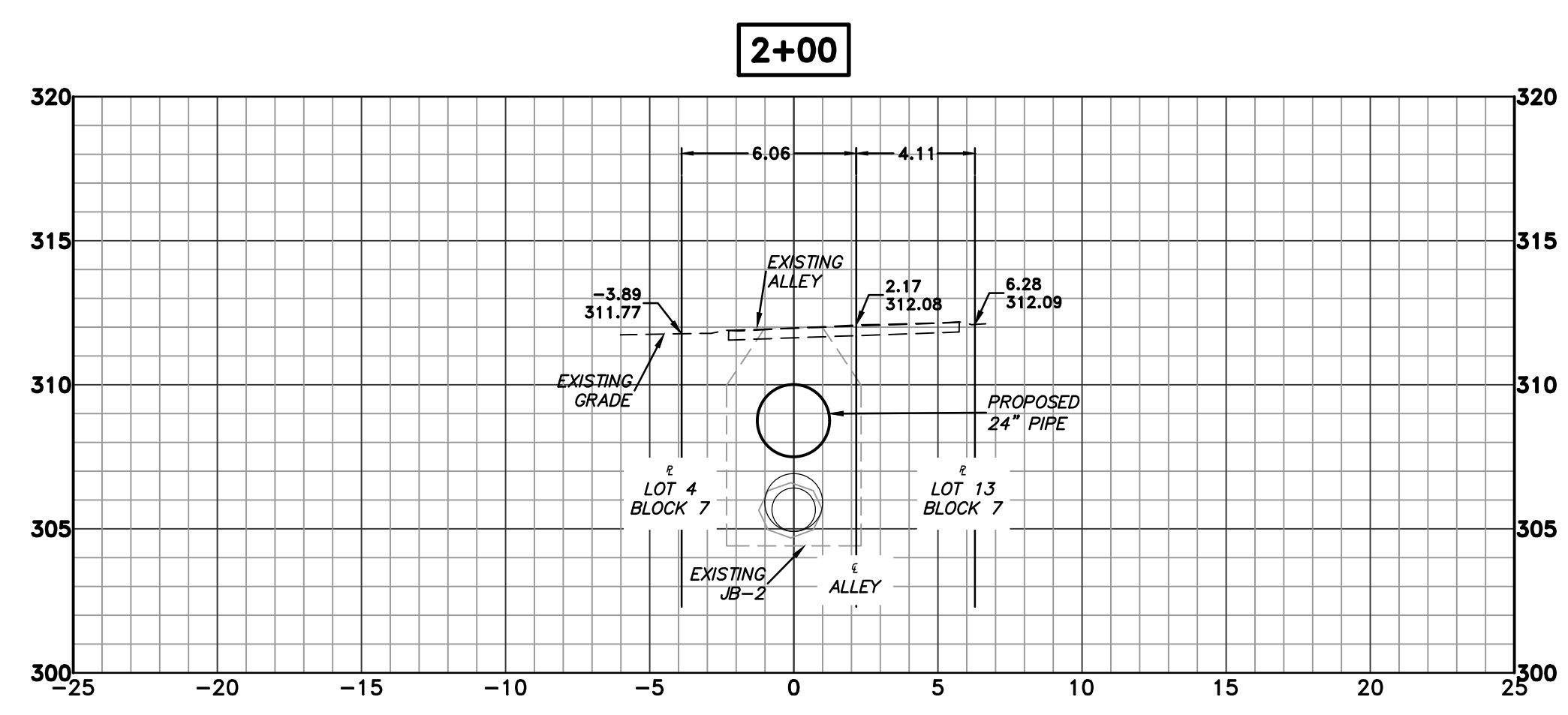
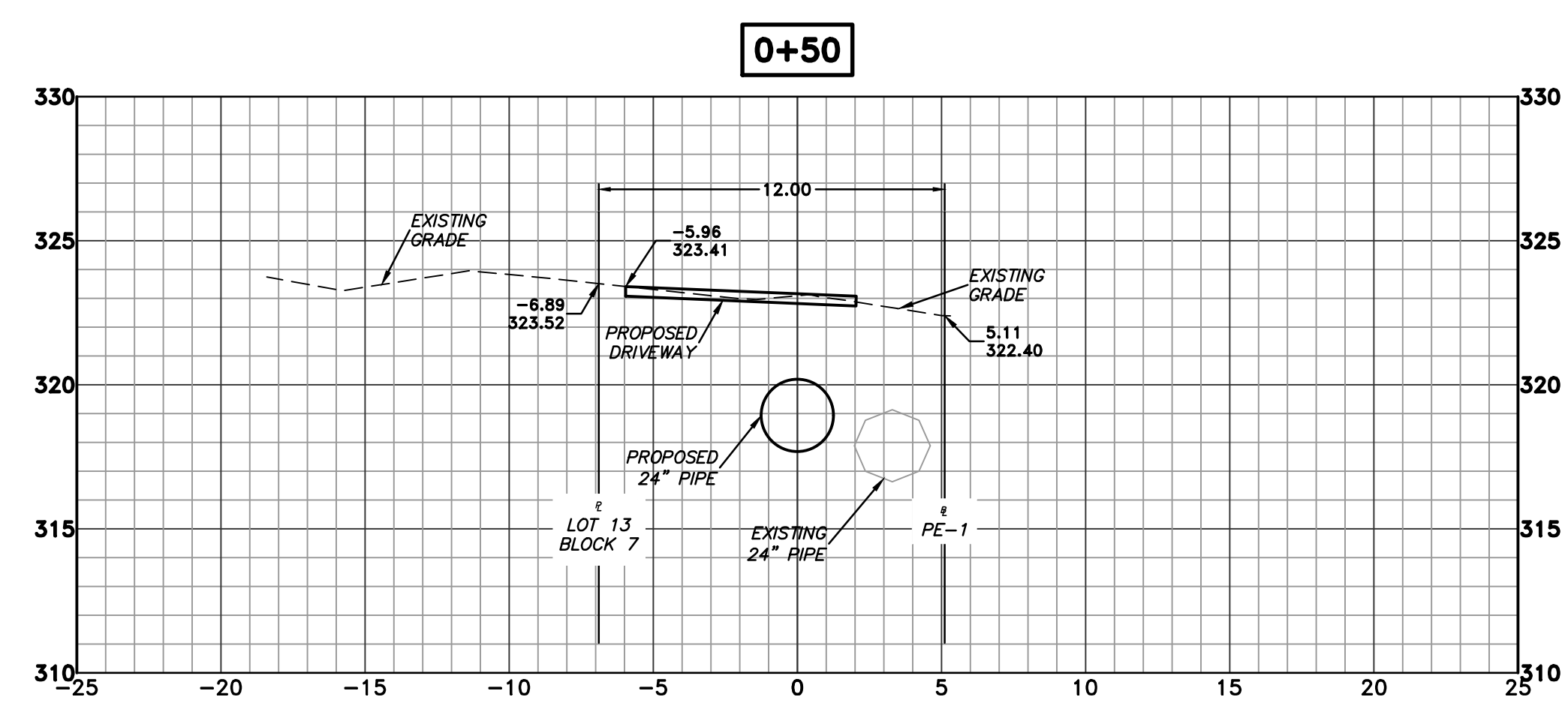
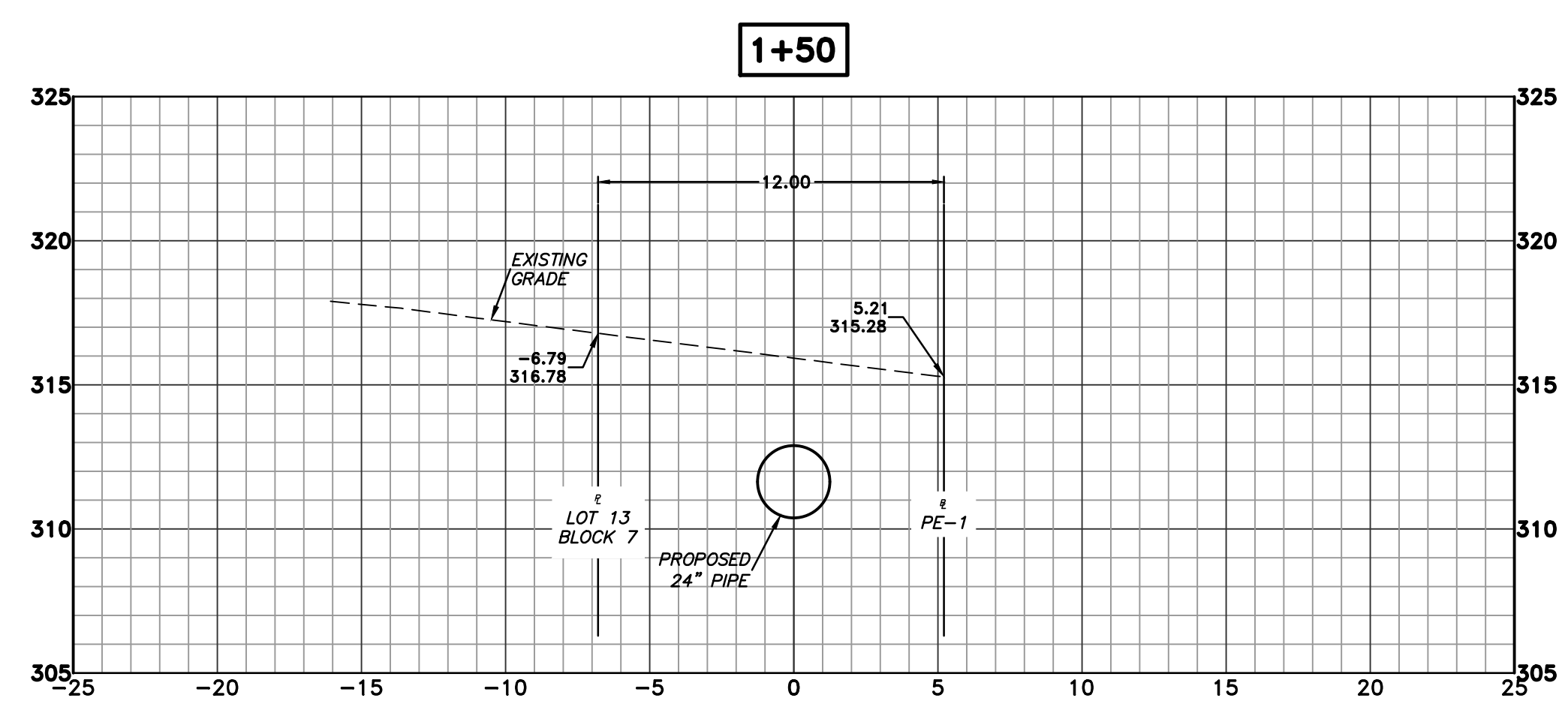
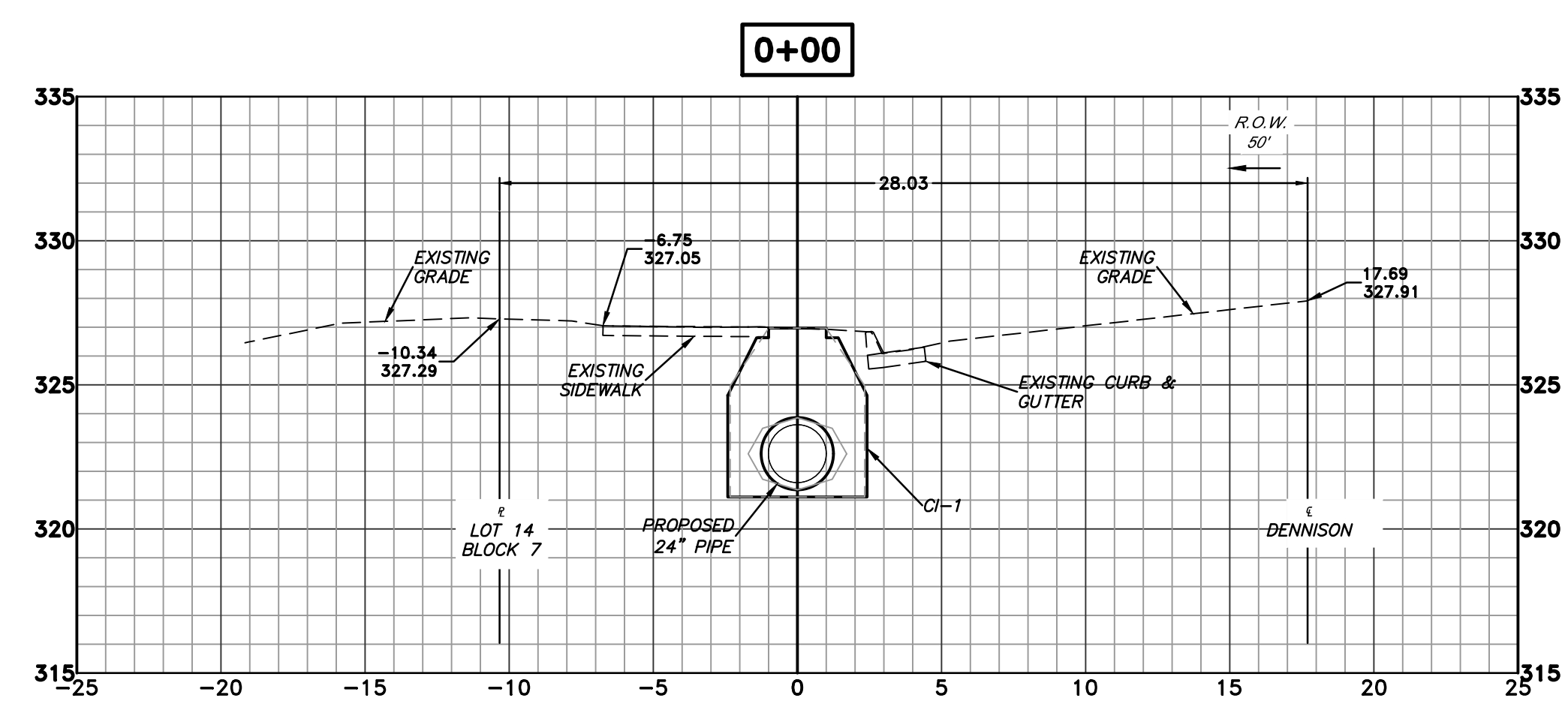
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 BARTON STREET DRAINAGE IMPROVEMENTS  
 CROSS SECTIONS - STA 0+00 TO STA 2+50

  
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DRAWN BY JP
DESIGNED KP
CHECKED KP
DATE 10.16.19
SCALE 1" = 5'
PROJECT NO. 3-17-DR-101
SHEET NO. C7

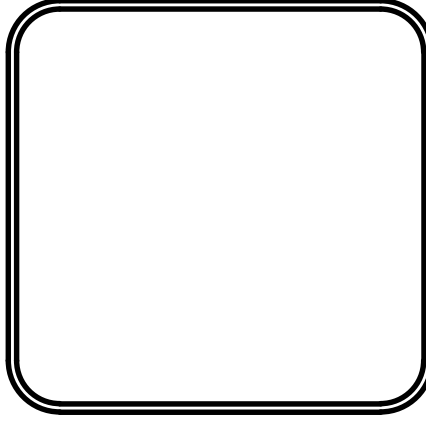


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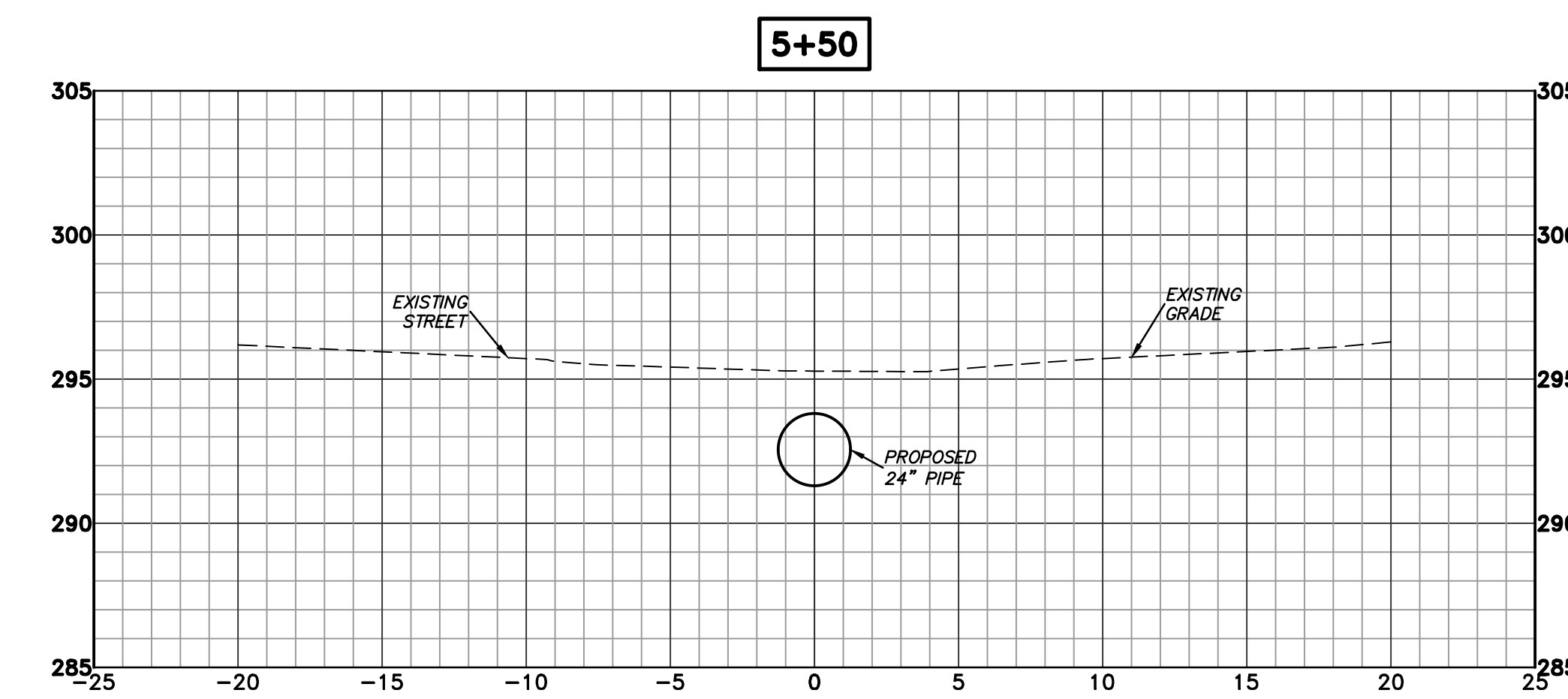
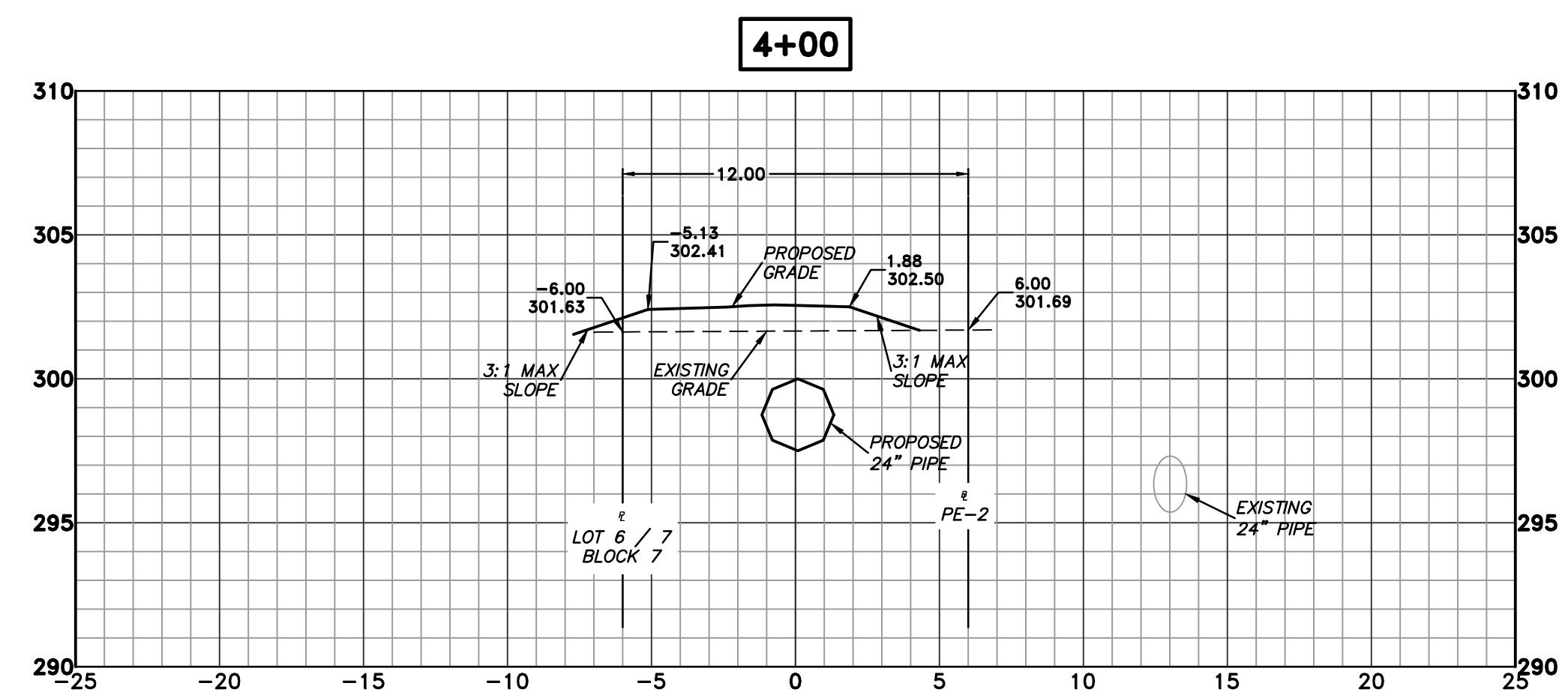
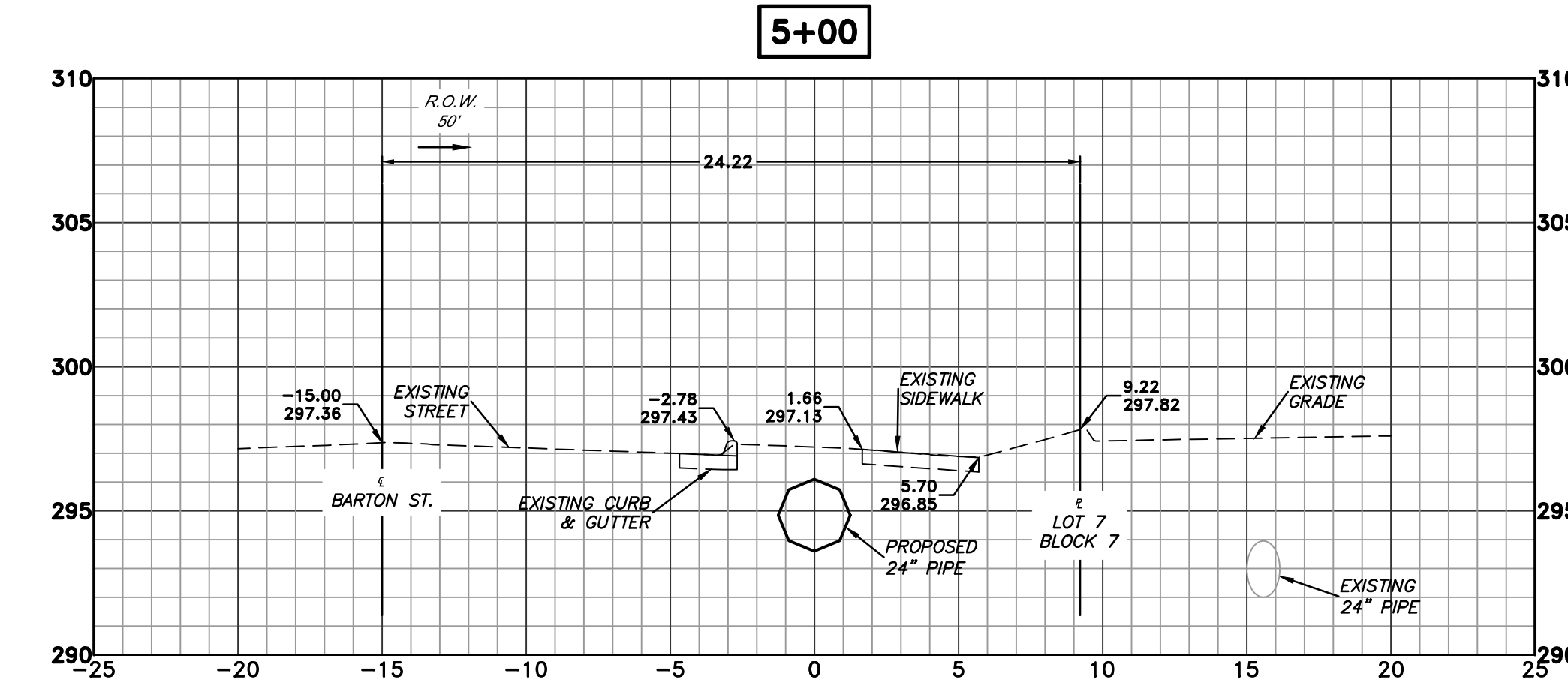
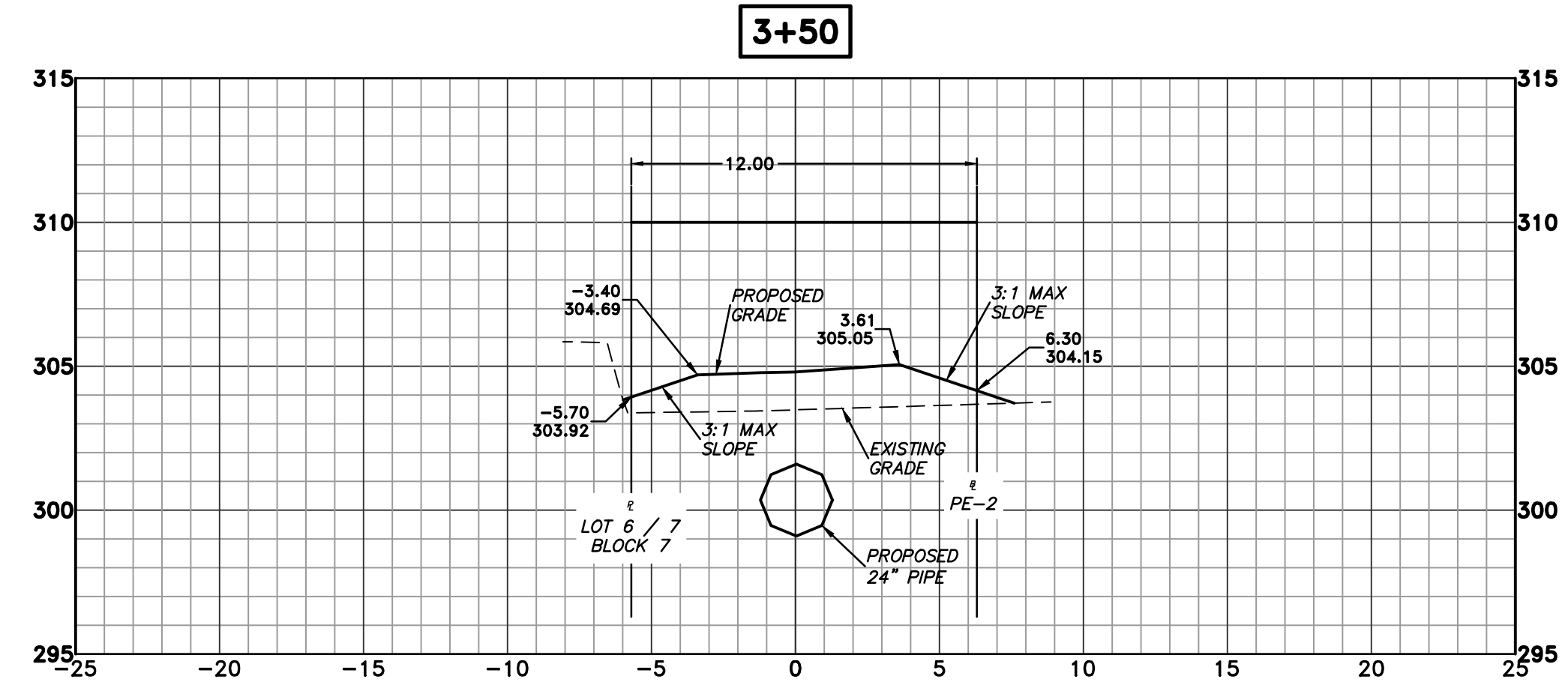
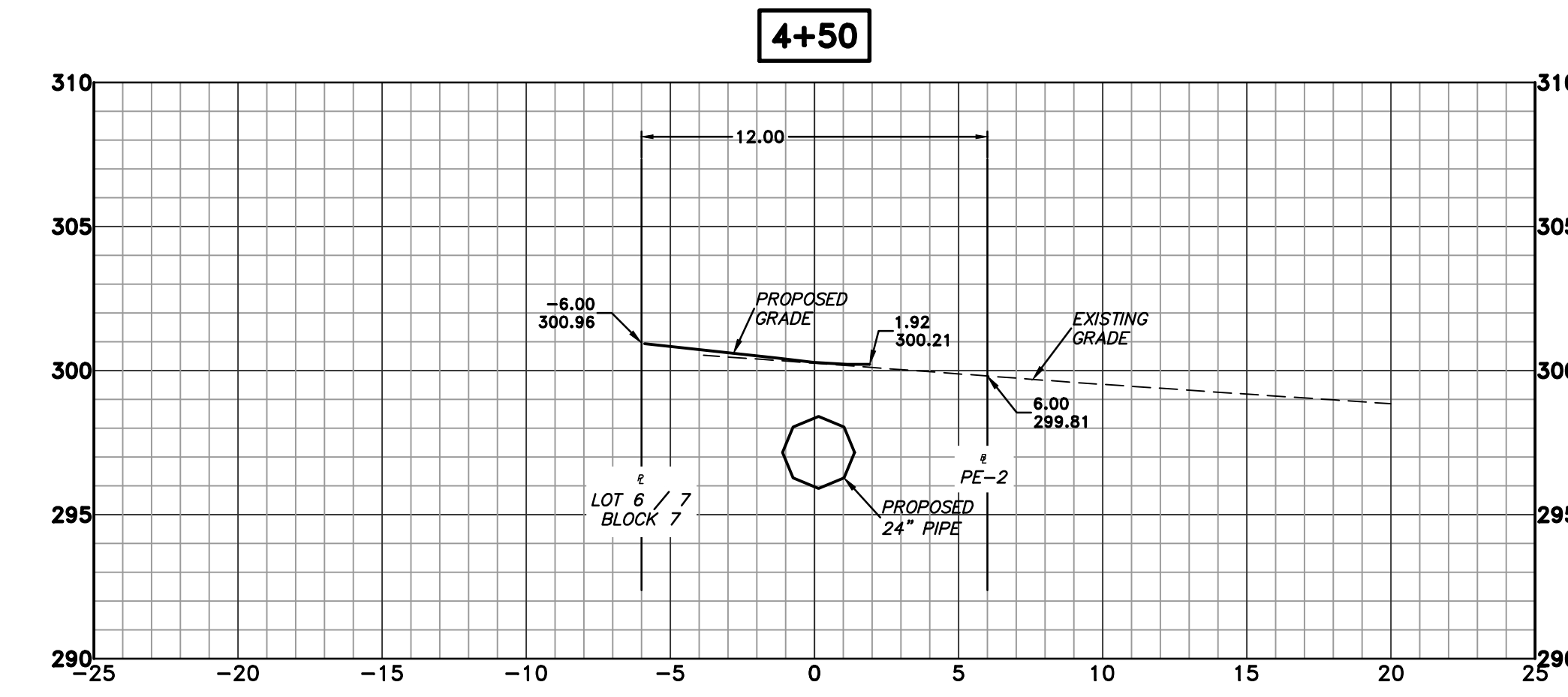
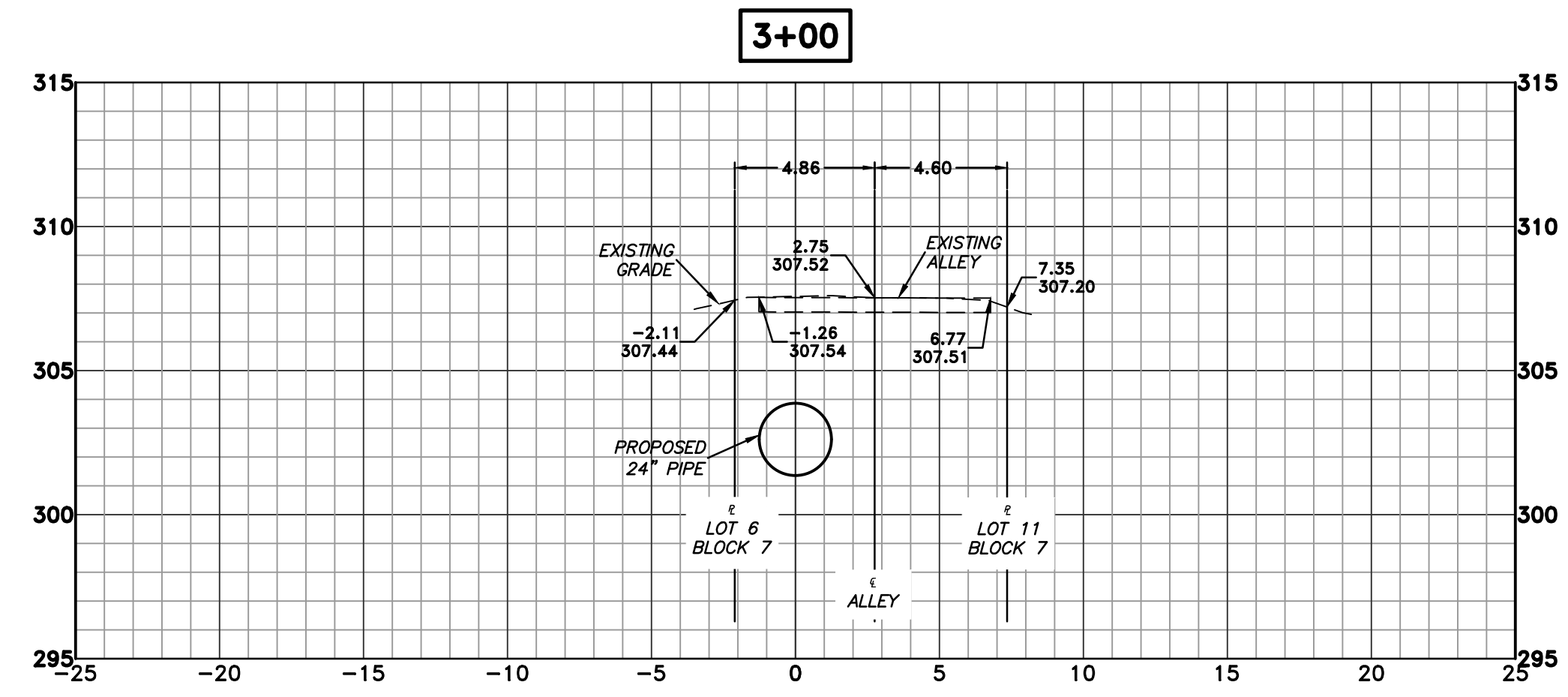
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 BARTON STREET DRAINAGE IMPROVEMENTS  
 CROSS SECTIONS - STA 3+00 TO STA 5+50

  
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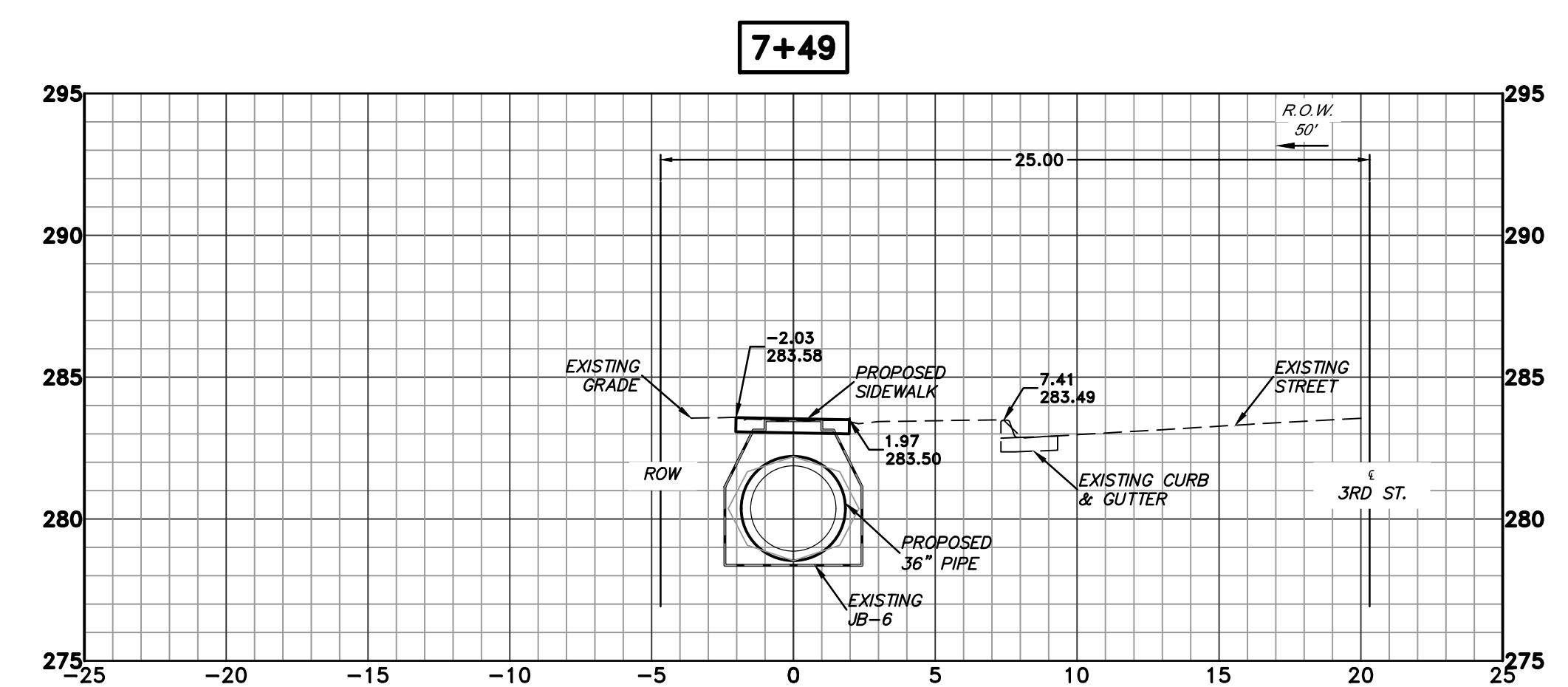
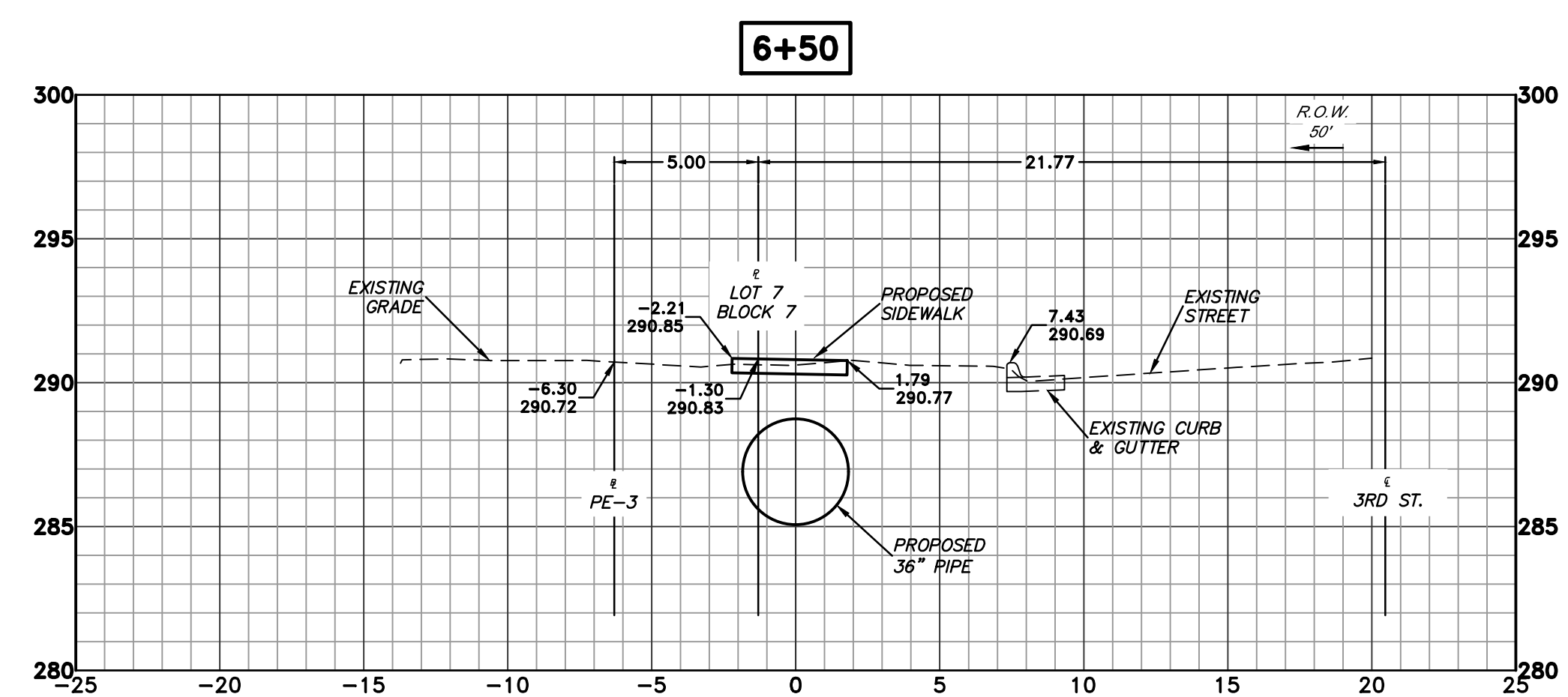
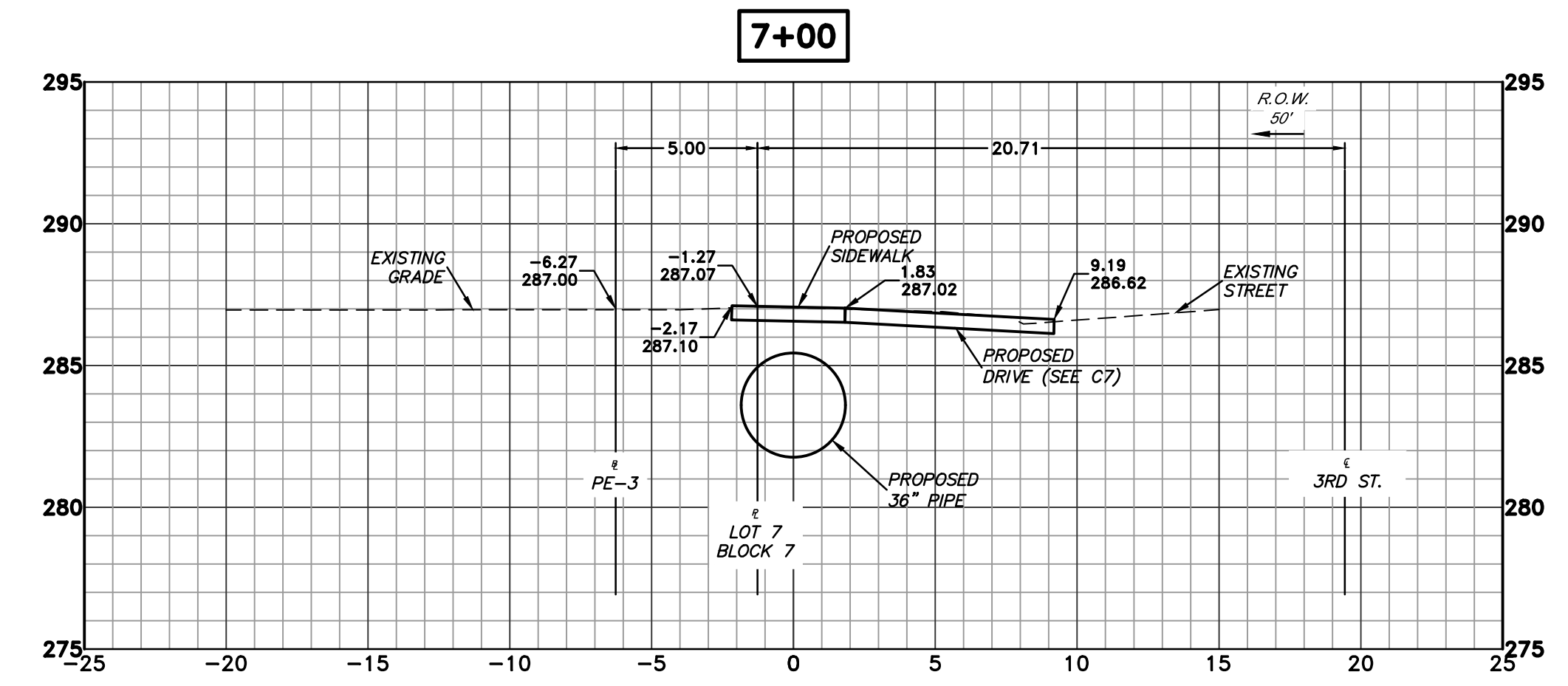
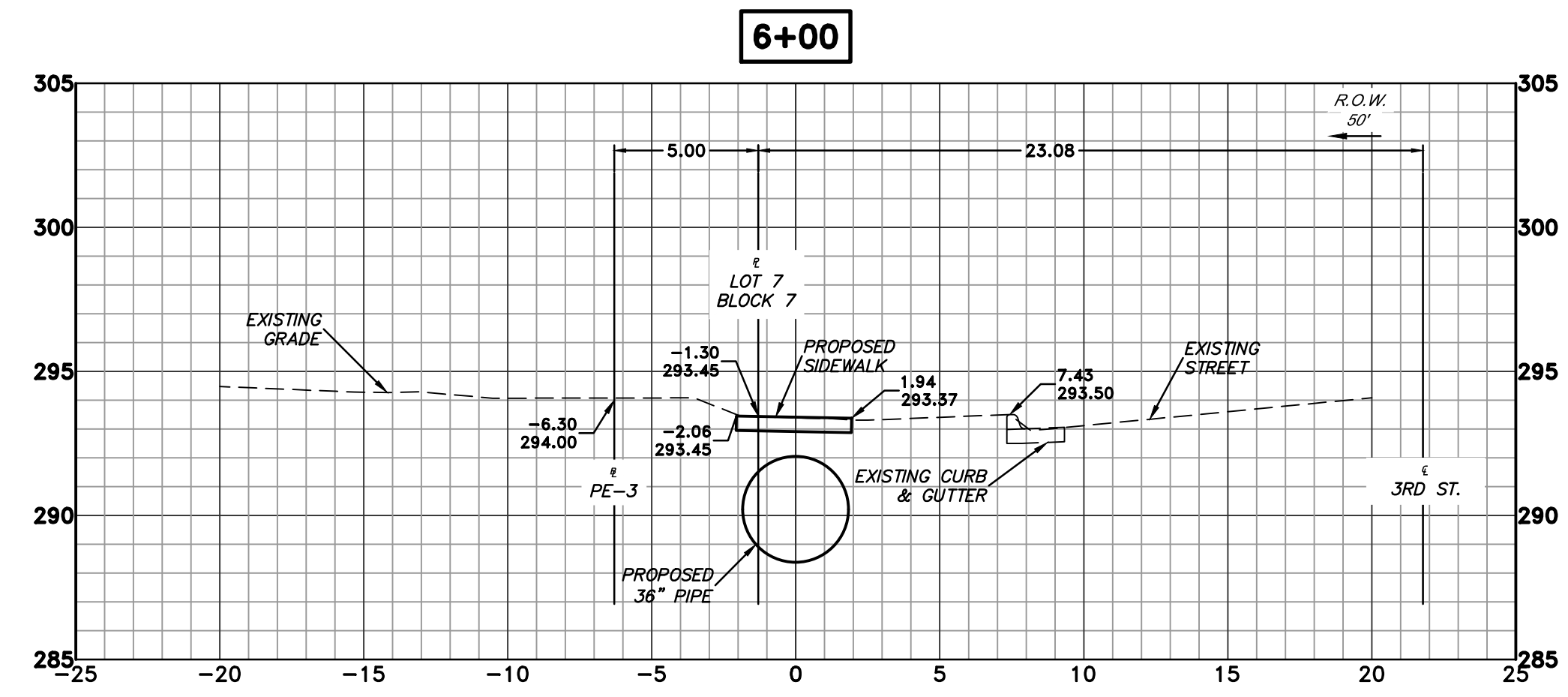


DRAWN BY	JP
DESIGNED	KP
CHECKED	KP
DATE	10.16.19
SCALE	1" = 5'
PROJECT NO.	3-17-DR-101
SHEET NO.	C8




**PRELIMINARY- 90% SUBMITTAL**




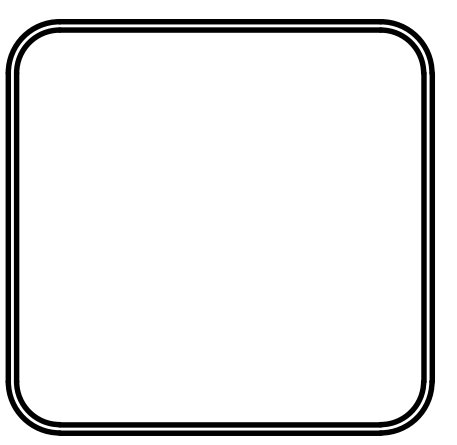


REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 BARTON STREET DRAINAGE IMPROVEMENTS  
 CROSS SECTIONS - STA 6+00 TO STA 7+49



DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
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DRAWN BY JP
DESIGNED KP
CHECKED KP
DATE 10.16.19
SCALE 1" = 5'
PROJECT NO. 3-17-DR-101
SHEET NO. C9

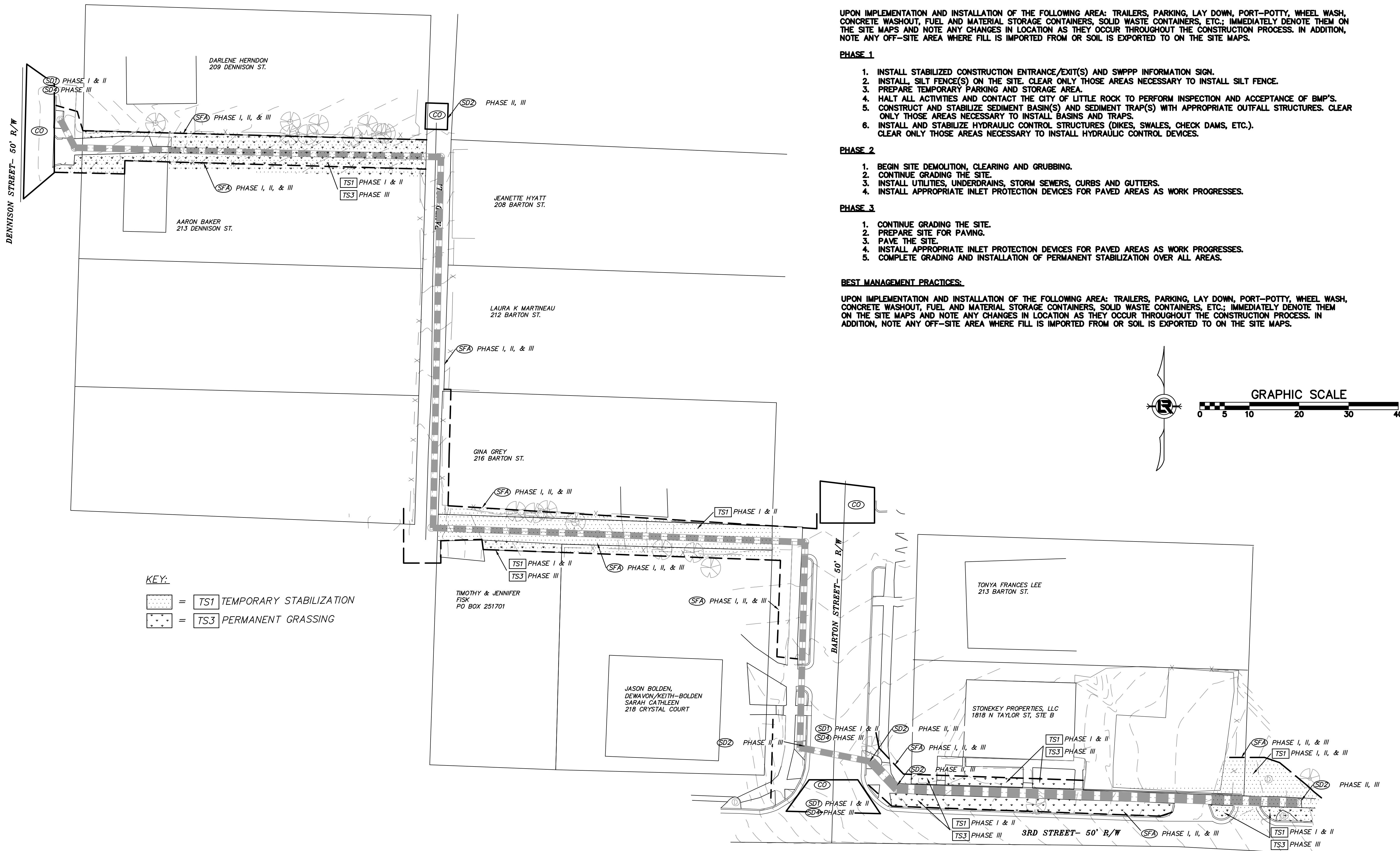
**PRELIMINARY- 90% SUBMITTAL**

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
**BARTON STREET DRAINAGE IMPROVEMENTS**  
 EROSION CONTROL PLAN

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

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 JB  
 DESIGNED  
 DW  
 CHECKED  
 KP  
 DATE  
 10-16-19  
 SCALE  
 1:20  
 PROJECT NO.  
 3-17-DR-101  
 SHEET NO.  
**C10**



**NOTE:**  
 UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREA: TRAILERS, PARKING, LAY DOWN, PORT-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.

- PHASE 2**
1. BEGIN SITE DEMOLITION, CLEARING AND GRUBBING.
  2. CONTINUE GRADING THE SITE.
  3. INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS, CURBS AND GUTTERS.
  4. INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES.

- PHASE 3**
1. CONTINUE GRADING THE SITE.
  2. PREPARE SITE FOR PAVING.
  3. PAVE THE SITE.
  4. INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES.
  5. COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREAS.

**BEST MANAGEMENT PRACTICES:**  
 UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREA: TRAILERS, PARKING, LAY DOWN, PORT-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.

**PRELIMINARY- 90% SUBMITTAL**