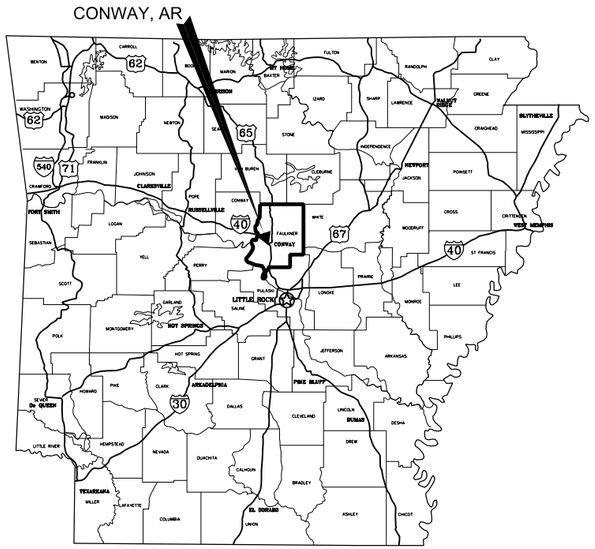
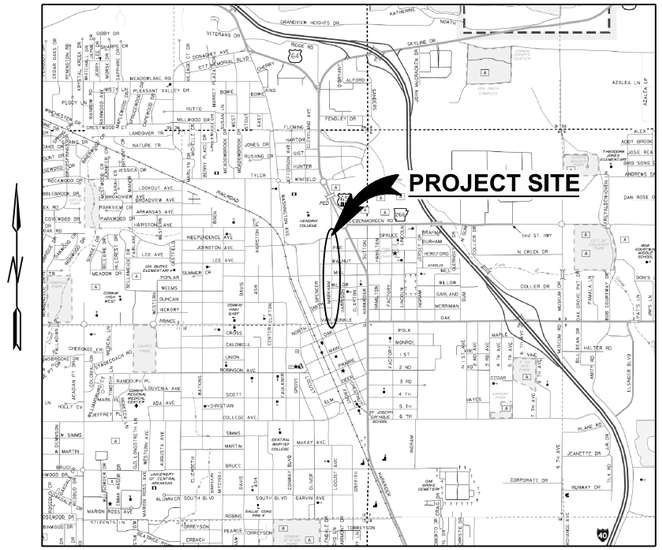
MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)
F.A.P. STPU-9095(33)
AHTD JOB 080566



LOCATION MAP

METROPLAN

SMART PLANNING MAKES SMART PLACES.



VICINITY MAP

NO SCALE

GARVER PROJECT NO. 16017122
MARCH 2018

DESIGN TRAFFIC DATA

DESIGN YEAR	2037
2017 ADT	5,000
2037 ADT	5,800
2037 DHV	460
DIRECTIONAL DISTRIBUTION	0.70
TRUCKS	2%
DESIGN SPEED	30 MPH

GARVER

831 Parkway
Suite C
Conway, AR 72034
(501) 537-3293

THIS PROJECT IS FUNDED THROUGH THE JUMP START INITIATIVE. THE PROPOSED INFRASTRUCTURE WILL BE LOCATED WITHIN CITY OF CONWAY RIGHT OF WAY AND MAINTAINED BY THE CITY OF CONWAY.

90% SUBMITTAL

NOT FOR CONSTRUCTION

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

COVER SHEET

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

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DRAWING NUMBER
G-001

SHEET NUMBER **1**

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REVISED DATE:

INDEX OF SHEETS

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11-16	LAYOUT DETAILS	C-201 TO C-206	
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81	DETAILS OF DROP INLETS (TYPE C)	FPC-9E	8/22/02
82	DETAILS OF DROP INLETS (TYPE MO)	FPC-9M	8/22/02
83	DETAILS OF DROP INLET & JUNCTION BOX (TYPE ST)	FPC-9S	7/26/12
84	CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING	PCC-1	2/27/14
85	STANDARD HIGHWAY SIGNS AND SUPPORT ASSEMBLIES	SHS-1	9/12/13
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87	DETAILS OF SPECIAL ITEMS	SI-1	9/12/13
88	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-1	4/13/17
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91	TEMPORARY EROSION CONTROL DEVICES	TEC-1	11/16/17
92	TEMPORARY EROSION CONTROL DEVICES	TEC-2	6/2/94
93	TEMPORARY EROSION CONTROL DEVICES	TEC-3	11/3/94
94	TEMPORARY EROSION CONTROL DEVICES	TEC-4	7/26/12
CX1-CX18	MARKHAM STREET CROSS SECTIONS	CX-01 TO CX-18	

LEGEND

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

- EXISTING CENTERLINE
- EXISTING MAJOR CONTOUR (290)
- EXISTING MINOR CONTOUR (289)
- EXISTING STRUCTURE
- EXISTING FENCE
- EXISTING STORM DRAIN
- EXISTING TREE LINE
- EXISTING PROPERTY LINE (PL … F)
- EXISTING RIGHT-OF-WAY (R / W)
- EXISTING EASEMENT
- EXISTING GAS UTILITY (G)
- EXISTING SANITARY UTILITY (SS)
- EXISTING WATER UTILITY (W)
- EXISTING UNDERGROUND TELEPHONE UTILITY (UGT)
- EXISTING OVERHEAD ELECTRIC UTILITY (OHE)
- PROPOSED TEMP. CONST. EASEMENT
- PROPOSED PERMANENT EASEMENT
- PROPOSED CENTERLINE
- PROPOSED STORM DRAIN
- PROPOSED TOP-OF-BANK (TOB)
- PROPOSED TOE-OF-SLOPE (TOS)
- PROPOSED SPECIAL DITCH
- PROPOSED SILT FENCE (SILT)

GENERAL NOTES:

1. CAUTION: UNDERGROUND UTILITIES EXIST WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION. AN ATTEMPT HAS BEEN MADE TO LOCATE THESE UTILITIES ON THE PLANS; HOWEVER, ALL EXISTING UTILITIES MAY NOT BE SHOWN AND THE ACTUAL LOCATIONS OF THE UTILITIES MAY VARY FROM THE LOCATIONS SHOWN. SOME UTILITIES MAY HAVE BEEN RELOCATED SINCE THE TIME OF DESIGN AND THE CONTRACTOR'S NOTICE TO PROCEED. PRIOR TO BEGINNING ANY TYPE OF EXCAVATION, THE CONTRACTOR SHALL CONTACT THE UTILITIES INVOLVED AND MAKE ARRANGEMENTS FOR THE LOCATION OF THE UTILITIES ON THE GROUND. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NECESSARY. ARKANSAS STATE LAW, THE UNDERGROUND FACILITIES DAMAGE PREVENTION ACT, REQUIRES TWO WORKING DAYS ADVANCE NOTIFICATION THROUGH THE ARKANSAS ONE-CALL SYSTEM CENTER BEFORE EXCAVATING USING MECHANIZED EQUIPMENT OR EXPLOSIVES (EXCEPT IN THE CASE OF EMERGENCY). THE ONE-CALL SYSTEM PHONE NUMBER IS 1-800-482-8998. THE CONTRACTOR IS ADVISED THAT THERE IS A SEVERE PENALTY FOR NOT MAKING THIS CALL. NOT ALL UTILITY COMPANIES ARE MEMBERS OF THE ARKANSAS ONE-CALL SYSTEM; THEREFORE, THE CONTRACTOR IS ADVISED TO CONTACT ALL NON-MEMBER UTILITIES AS WELL AS THE ONE-CALL SYSTEM. THE LOCATION OF THE EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE, AND ARE THE LOCATIONS AT THE TIME OF DESIGN.
2. GRADE LINE DENOTES FINISHED GRADE WHERE SHOWN ON PLANS.
3. ALL PIPE LINES, POWER, TELEPHONE AND TELEGRAPH LINES TO BE MOVED OR LOWERED BY THE RESPECTIVE OWNERS AS PER AGREEMENT WITH SUCH OWNERS.
4. ANY EQUIPMENT OR APPURTENANCE THAT INTERFERES WITH THE PROPOSED CONSTRUCTION AND WHICH MAY BE THE PROPERTY OF UTILITY SERVICE ORGANIZATIONS SHALL BE MOVED BY THE OWNERS UNLESS OTHERWISE PROVIDED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING U. S. MAILBOXES WITHIN THE PROJECT LIMITS IN SUCH A MANNER THAT THE PUBLIC MAY RECEIVE CONTINUED MAIL SERVICE. PAYMENT WILL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS BID ITEMS.
6. ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD SPECIFICATIONS.
7. 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 ENSURE THAT ALL TREES NOT TO BE REMOVED SHALL BE HARMED AS LITTLE AS POSSIBLE DURING THE CONSTRUCTION OPERATIONS.
8. THE EXISTING ASPHALT PAVEMENT TO BE REMOVED FROM THE REMAINING PAVEMENT SHALL BE SEPARATED BY SAWING ALONG A NEAT LINE. AFTER SAWING, THE PAVEMENT TO BE REMOVED SHALL BE CAREFULLY REMOVED IN A MANNER THAT WILL NOT DAMAGE THE PAVEMENT THAT IS TO REMAIN. ANY DAMAGE OF THE ASPHALT PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

INDEX OF SHEETS, GENERAL NOTES AND LEGEND

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

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DRAWING NUMBER
G-002

SHEET NUMBER **2**

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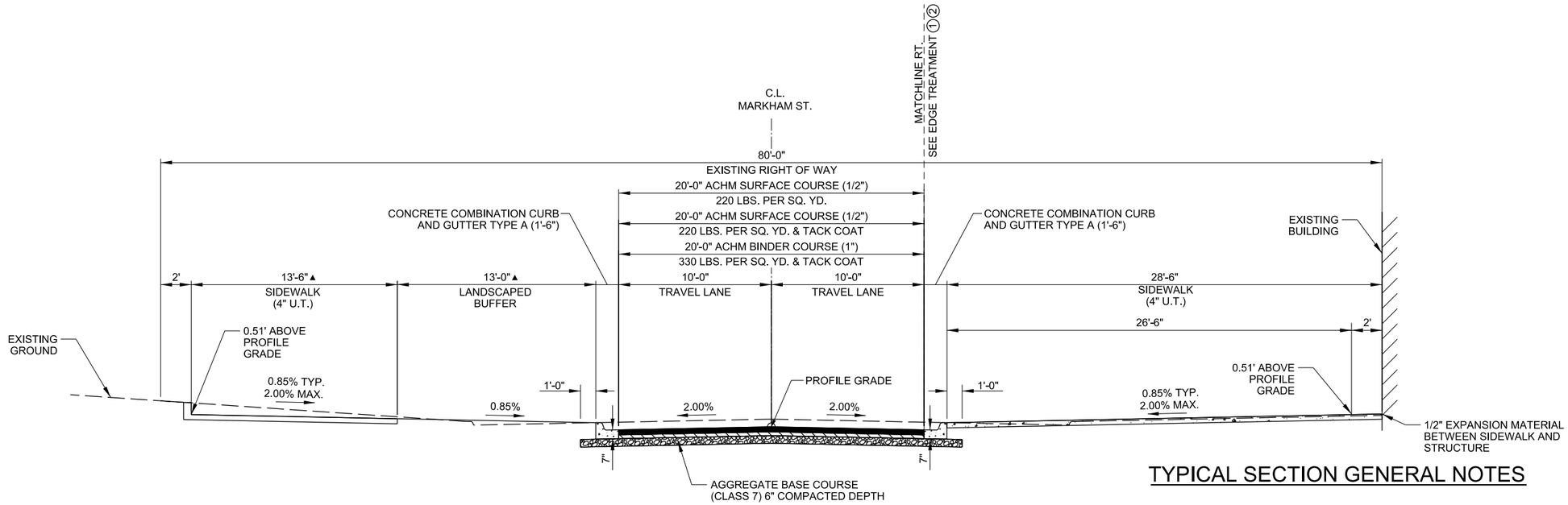


▲ SEE LAYOUT DETAILS FOR VARIATIONS

TYPICAL SECTION - MARKHAM ST.

STA. 26+50.00 TO STA. 27+50.00

TYPICAL SECTION GENERAL NOTES

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

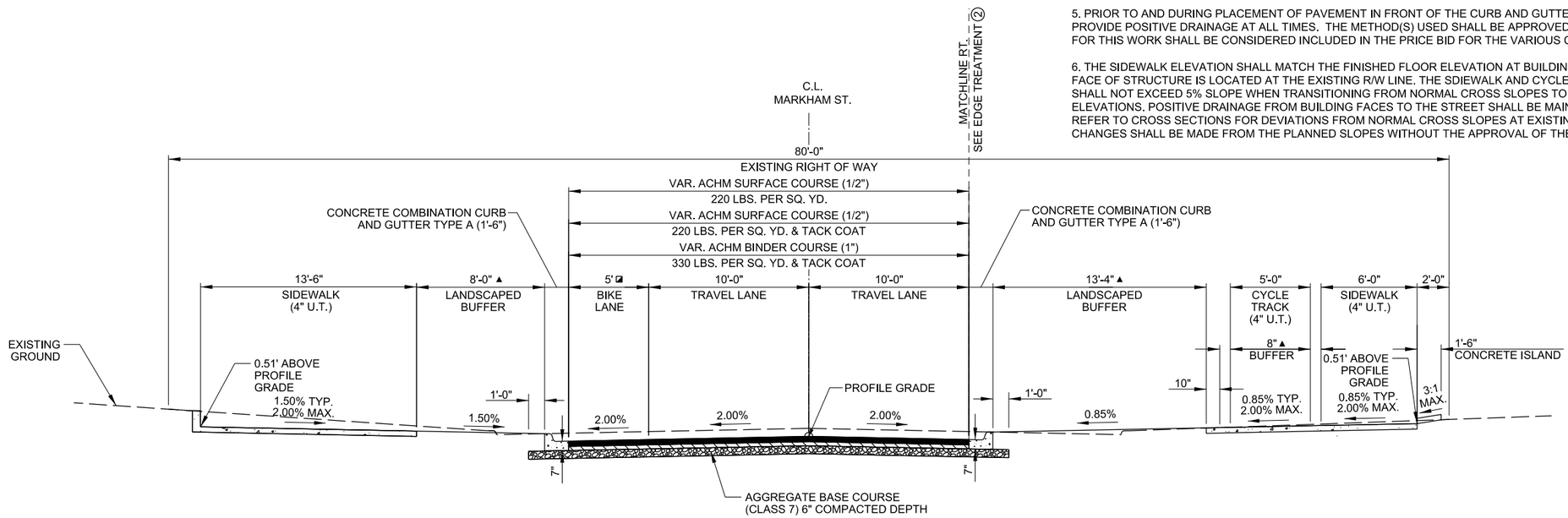
2. THE THICKNESS OF AGG. BASE COURSE SHALL BE WITHIN PLUS OR MINUS ONE INCH OF THE PLAN THICKNESS SHOWN. THE CONTRACTOR WILL CORRECT ANY DEFICIENT THICKNESS THAT DOES NOT MEET TOLERANCE INDICATED. PAYMENT WILL NOT BE MADE FOR MATERIAL PLACED IN EXCESS OF THE TOLERANCE INDICATED.

3. THE FINAL 2" OF SURFACE COURSE IS TO BE PLACED AFTER ALL OTHER COURSES HAVE BEEN LAID. LONGITUDINAL JOINTS SHALL BE AT THE LANE LINES.

4. THE EXISTING PAVEMENT TO BE REMOVED FROM THE REMAINING PAVEMENT SHALL BE SEPARATED BY SAWING ALONG A NEAT LINE. AFTER SAWING, THE PAVEMENT TO BE REMOVED SHALL BE CAREFULLY REMOVED IN A MANNER THAT WILL NOT DAMAGE THE PAVEMENT THAT IS TO REMAIN. ANY DAMAGE TO THE PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

5. PRIOR TO AND DURING PLACEMENT OF PAVEMENT IN FRONT OF THE CURB AND GUTTER, THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AT ALL TIMES. THE METHOD(S) USED SHALL BE APPROVED BY THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS CONTRACT ITEMS.

6. THE SIDEWALK ELEVATION SHALL MATCH THE FINISHED FLOOR ELEVATION AT BUILDING ENTRY POINTS WHEN THE FACE OF STRUCTURE IS LOCATED AT THE EXISTING R/W LINE. THE SDIEWALK AND CYCLE TRACK LONGITUDIAL GRADE SHALL NOT EXCEED 5% SLOPE WHEN TRANSITIONING FROM NORMAL CROSS SLOPES TO EXISTING FINISHED FLOOR ELEVATIONS. POSITIVE DRAINAGE FROM BUILDING FACES TO THE STREET SHALL BE MAINTAINED AT ALL LOCATIONS. REFER TO CROSS SECTIONS FOR DEVIATIONS FROM NORMAL CROSS SLOPES AT EXISTING BUILDING LOCATIONS. NO CHANGES SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.



TYPICAL SECTION - MARKHAM ST.

STA. 27+50.00 TO STA. 27+59.67
STA. 30+31.98 TO STA. 30+82.72

◪ STA. 27+50.00 TO STA. 27+59.67 - TRANSITION 0'-0" TO 1'-4"
▲ SEE LAYOUT DETAILS FOR VARIATIONS

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

TYPICAL SECTIONS
(SHEET 1 OF 8)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

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DRAWING NUMBER
C-101

SHEET NUMBER **3**

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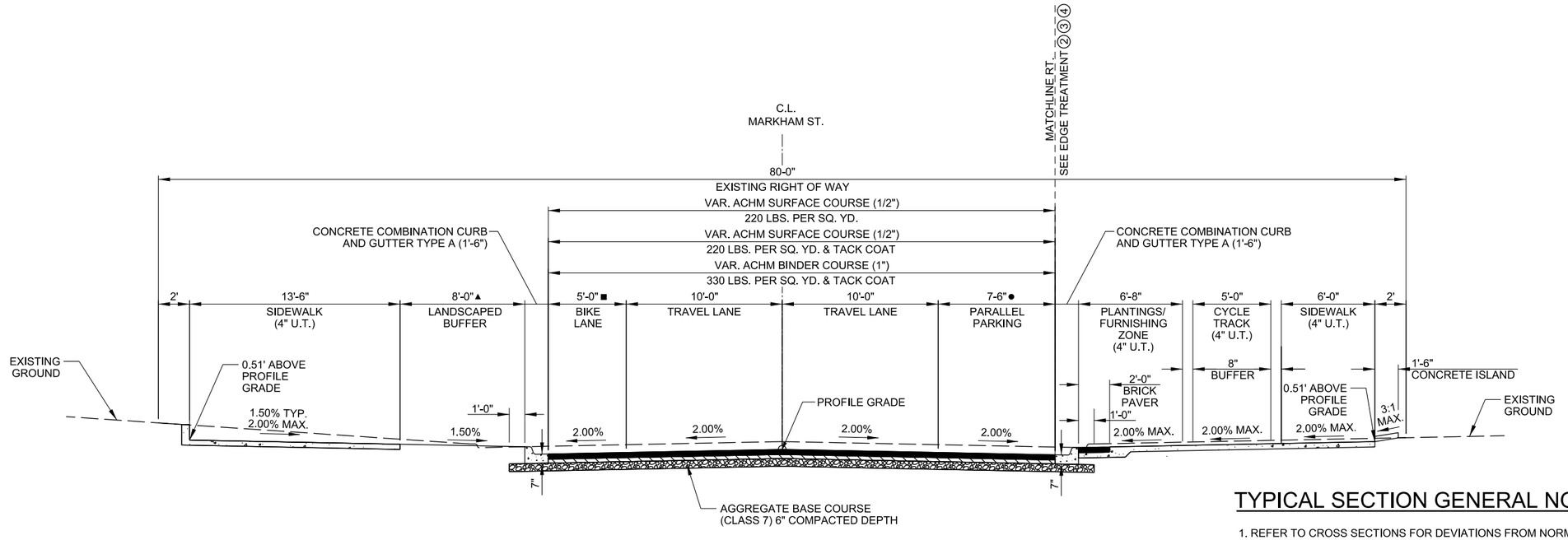

■ STA. 27+59.67 TO STA. 27+85.00 - TRANSITION 1'-4" TO 5'-0"
● STA. 27+59.67 TO STA. 27+67.17 - TRANSITION 0'-0" TO 7'-6"
STA. 30+24.48 TO STA. 30+31.98 - TRANSITION 7'-6" TO 0'-0"
▲ SEE LAYOUT DETAILS FOR VARIATIONS

TYPICAL SECTION - MARKHAM ST.

STA. 27+59.67 TO STA. 30+31.98

TYPICAL SECTION GENERAL NOTES

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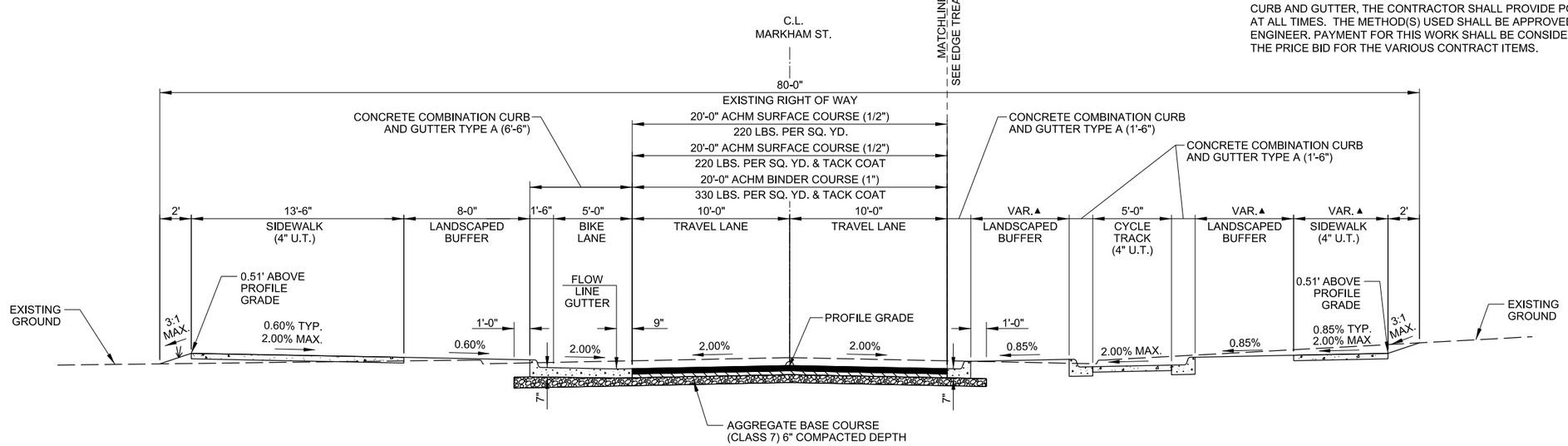

TYPICAL SECTION - MARKHAM ST.

STA. 30+82.72 TO STA. 31+11.46
STA. 39+56.92 TO STA. 39+87.41
STA. 42+95.91 TO STA. 43+10.74
STA. 46+44.96 TO STA. 46+60.45

▲ SEE LAYOUT DETAILS FOR VARIATIONS

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

TYPICAL SECTIONS
(SHEET 2 OF 8)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

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SHEET NUMBER **4**

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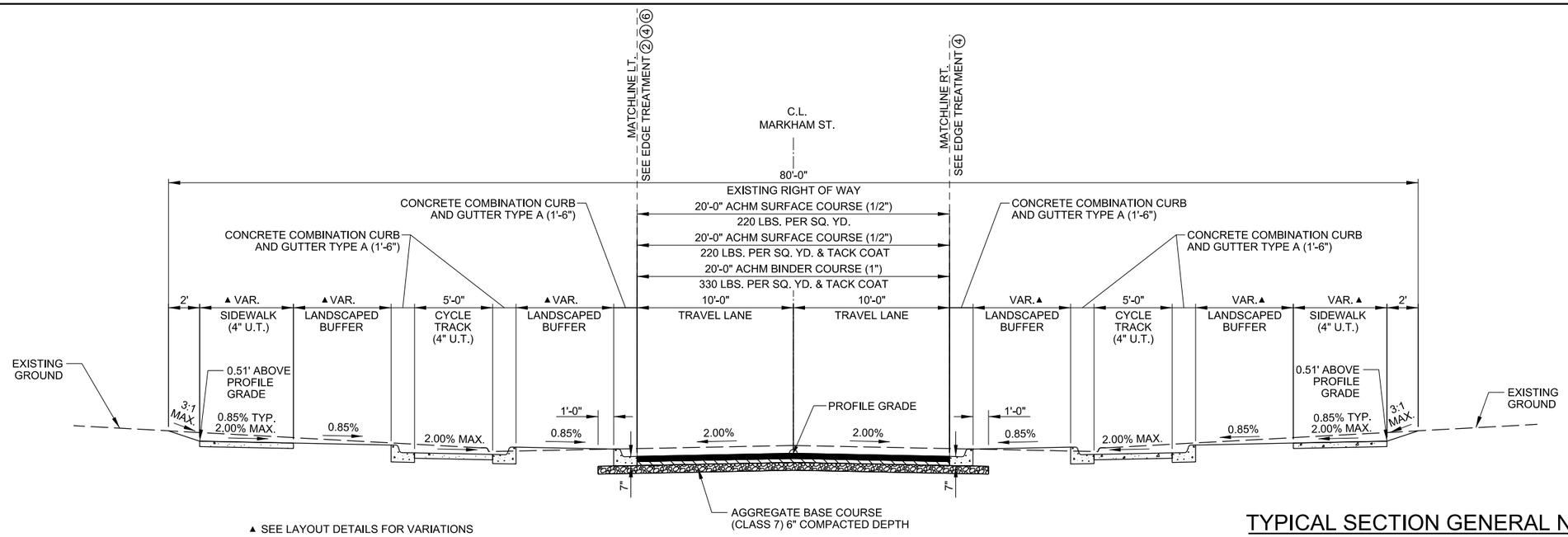
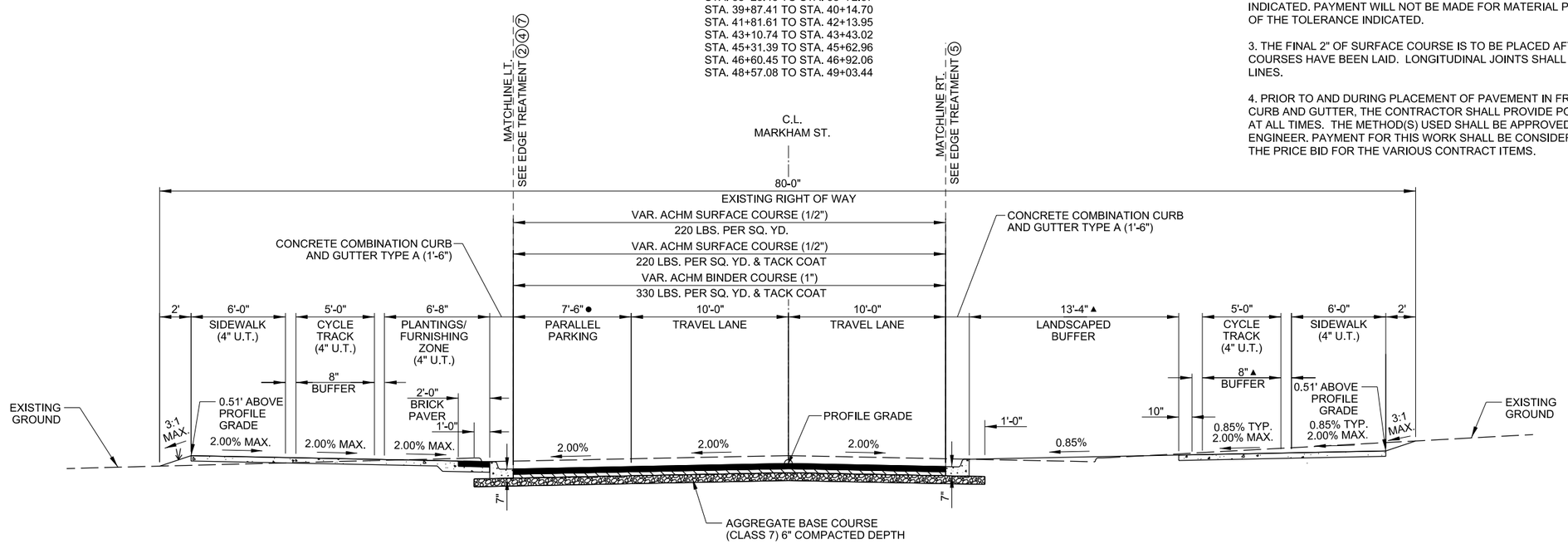


▲ SEE LAYOUT DETAILS FOR VARIATIONS

TYPICAL SECTION - MARKHAM ST.

STA. 31+11.46 TO STA. 31+58.56
STA. 32+79.97 TO STA. 33+14.22
STA. 35+03.89 TO STA. 35+38.20
STA. 36+20.18 TO STA. 36+67.31
STA. 38+25.43 TO STA. 38+72.57
STA. 39+87.41 TO STA. 40+14.70
STA. 41+81.61 TO STA. 42+13.95
STA. 43+10.74 TO STA. 43+43.02
STA. 45+31.39 TO STA. 45+62.96
STA. 46+60.45 TO STA. 46+92.06
STA. 48+57.08 TO STA. 49+03.44



TYPICAL SECTION - MARKHAM ST.

STA. 31+58.56 TO STA. 31+92.95
STA. 33+14.22 TO STA. 33+27.08
STA. 34+91.08 TO STA. 35+03.89
STA. 41+66.94 TO STA. 41+81.61
STA. 45+15.90 TO STA. 45+31.39

● STA. 31+58.56 TO STA. 31+66.09 - TRANSITION 0'-0" TO 7'-6"
STA. 33+14.22 TO STA. 33+21.72 - TRANSITION 0'-0" TO 7'-6"
STA. 34+96.39 TO STA. 35+03.89 - TRANSITION 7'-6" TO 0'-0"
STA. 41+74.11 TO STA. 41+81.61 - TRANSITION 7'-6" TO 0'-0"
STA. 45+23.89 TO STA. 45+31.39 - TRANSITION 7'-6" TO 0'-0"
▲ SEE LAYOUT DETAILS FOR VARIATIONS

TYPICAL SECTION GENERAL NOTES

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FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES
METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

TYPICAL SECTIONS
(SHEET 3 OF 8)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

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SHEET NUMBER **5**

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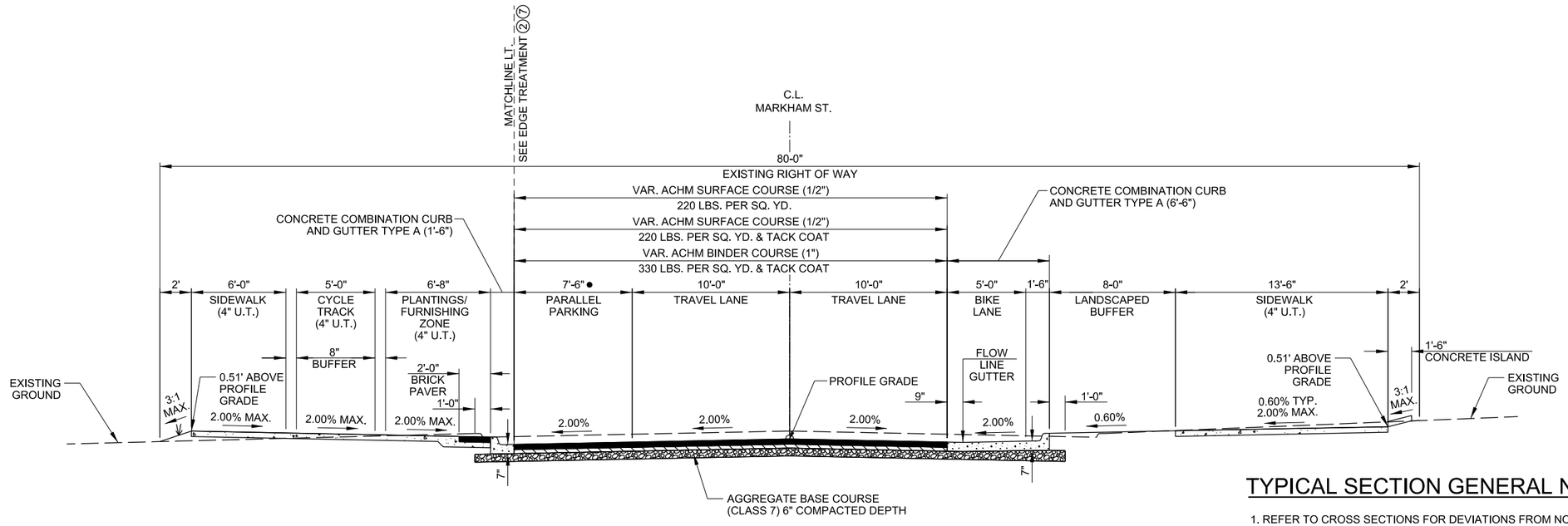
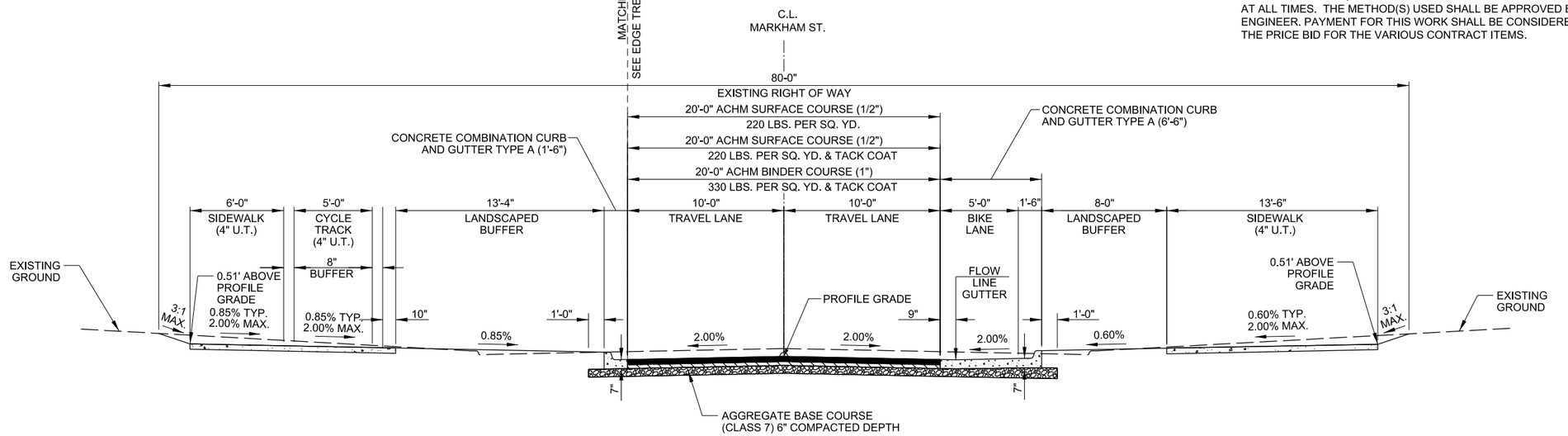


● STA. 32+43.83 TO STA. 32+51.33 - TRANSITION 7'-6" TO 0'-0"

TYPICAL SECTION - MARKHAM ST.

STA. 31+92.95 TO STA. 32+51.33



TYPICAL SECTION - MARKHAM ST.

STA. 32+51.33 TO STA. 32+79.97
STA. 35+38.20 TO STA. 36+20.18
STA. 38+72.57 TO STA. 38+92.41
STA. 42+13.95 TO STA. 42+28.73
STA. 45+62.96 TO STA. 45+78.45

TYPICAL SECTION GENERAL NOTES

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

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METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

TYPICAL SECTIONS
(SHEET 4 OF 8)

JOB NO.: 16017122
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BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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DRAWING NUMBER
C-104

SHEET NUMBER **6**

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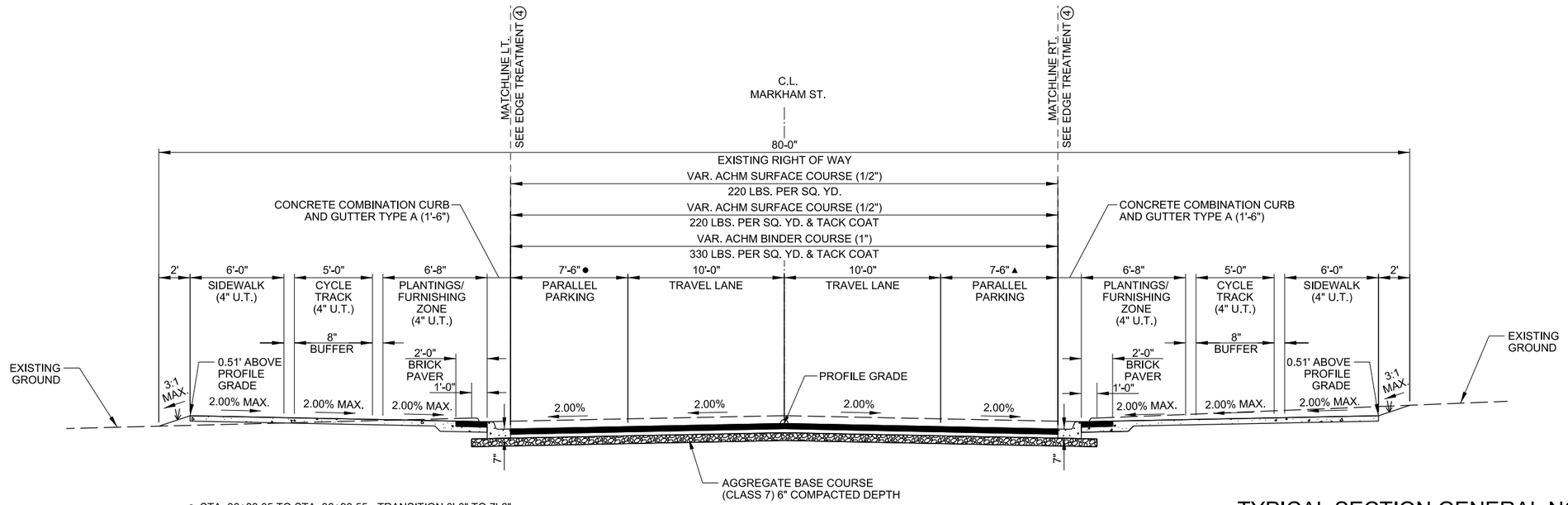


● STA. 36+83.05 TO STA. 36+90.55 - TRANSITION 0'-0" TO 7'-6"
STA. 38+07.72 TO STA. 38+15.22 - TRANSITION 7'-6" TO 0'-0"
STA. 40+34.44 TO STA. 40+41.94 - TRANSITION 0'-0" TO 7'-6"
STA. 43+57.84 TO STA. 43+65.34 - TRANSITION 0'-0" TO 7'-6"
STA. 47+07.55 TO STA. 47+15.05 - TRANSITION 0'-0" TO 7'-6"
STA. 48+49.58 TO STA. 48+57.08 - TRANSITION 7'-6" TO 0'-0"
▲ STA. 33+27.08 TO STA. 33+34.58 - TRANSITION 0'-0" TO 7'-6"
STA. 34+83.58 TO STA. 34+91.08 - TRANSITION 7'-6" TO 0'-0"
STA. 41+59.44 TO STA. 41+66.94 - TRANSITION 7'-6" TO 0'-0"
STA. 45+08.40 TO STA. 45+15.90 - TRANSITION 7'-6" TO 0'-0"
STA. 48+49.58 TO STA. 48+57.08 - TRANSITION 7'-6" TO 0'-0"

TYPICAL SECTION - MARKHAM ST.

STA. 33+27.08 TO STA. 34+91.08
STA. 36+83.05 TO STA. 38+15.22
STA. 40+34.44 TO STA. 41+66.94
STA. 43+57.84 TO STA. 45+15.90
STA. 47+07.55 TO STA. 48+57.08

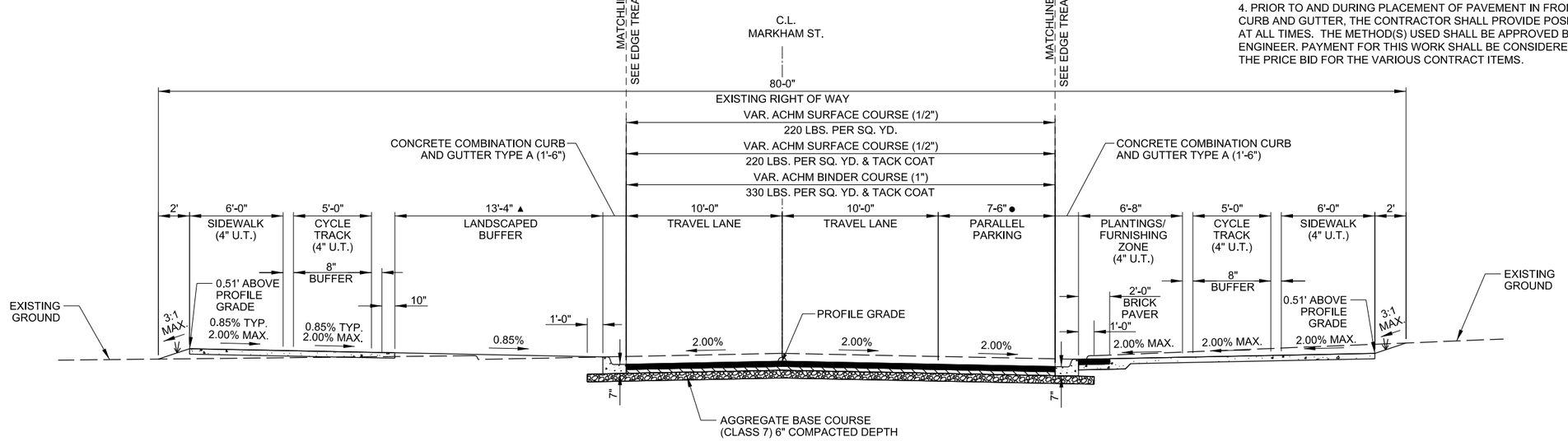
TYPICAL SECTION GENERAL NOTES

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

2. THE THICKNESS OF AGG. BASE COURSE SHALL BE WITHIN PLUS OR MINUS ONE INCH OF THE PLAN THICKNESS SHOWN. THE CONTRACTOR WILL CORRECT ANY DEFICIENT THICKNESS THAT DOES NOT MEET TOLERANCE INDICATED. PAYMENT WILL NOT BE MADE FOR MATERIAL PLACED IN EXCESS OF THE TOLERANCE INDICATED.

3. THE FINAL 2" OF SURFACE COURSE IS TO BE PLACED AFTER ALL OTHER COURSES HAVE BEEN LAID. LONGITUDINAL JOINTS SHALL BE AT THE LANE LINES.

4. PRIOR TO AND DURING PLACEMENT OF PAVEMENT IN FRONT OF THE CURB AND GUTTER, THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AT ALL TIMES. THE METHOD(S) USED SHALL BE APPROVED BY THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS CONTRACT ITEMS.



TYPICAL SECTION - MARKHAM ST.

STA. 36+67.31 TO STA. 36+83.05
STA. 38+15.22 TO STA. 38+25.43
STA. 40+14.70 TO STA. 40+34.44
STA. 43+43.02 TO STA. 43+57.84
STA. 46+92.06 TO STA. 47+07.55

● STA. 36+67.31 TO STA. 36+74.81 - TRANSITION 0'-0" TO 7'-6"
STA. 38+17.93 TO STA. 38+25.43 - TRANSITION 7'-6" TO 0'-0"
STA. 40+14.70 TO STA. 40+22.20 - TRANSITION 0'-0" TO 7'-6"
STA. 43+43.02 TO STA. 43+50.52 - TRANSITION 0'-0" TO 7'-6"
STA. 46+92.06 TO STA. 46+99.56 - TRANSITION 0'-0" TO 7'-6"

▲ SEE LAYOUT DETAILS FOR VARIATIONS

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS. (CONWAY) (S)

TYPICAL SECTIONS (SHEET 5 OF 8)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

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

DRAWING NUMBER
C-105

SHEET NUMBER **7**

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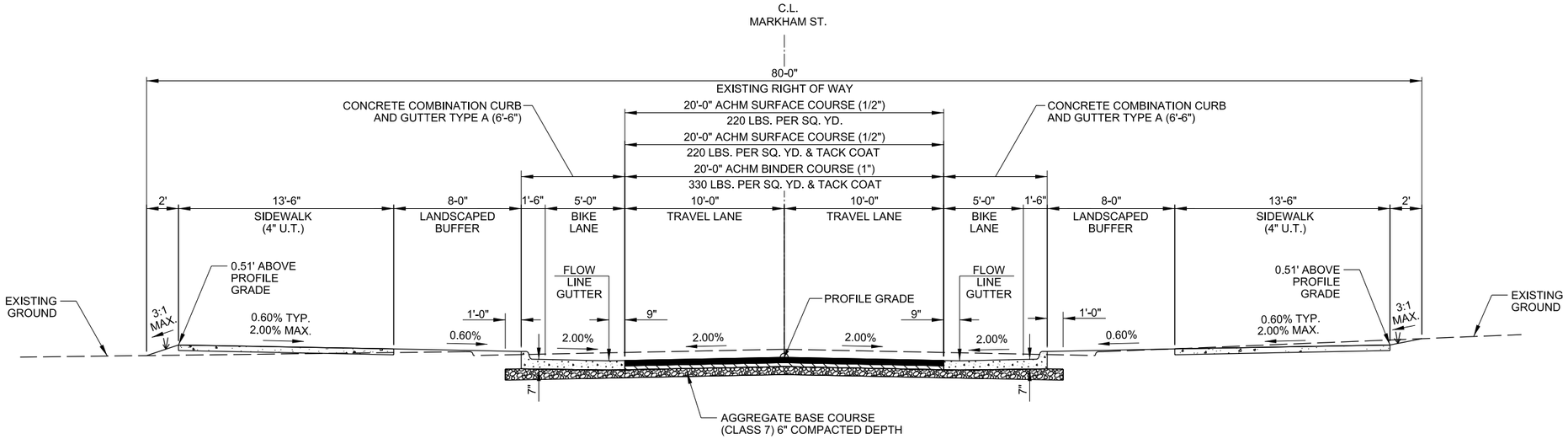


TYPICAL SECTION - MARKHAM ST.

STA. 38+92.41 TO STA. 39+67.52
STA. 42+28.73 TO STA. 42+95.91
STA. 45+78.45 TO STA. 46+44.96

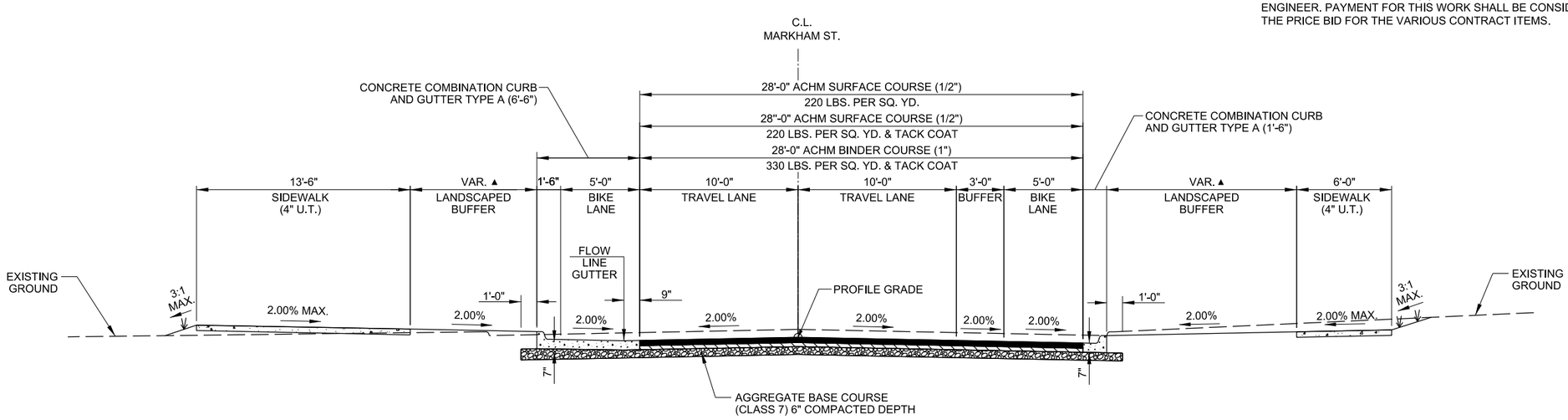
TYPICAL SECTION GENERAL NOTES

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

2. THE THICKNESS OF AGG. BASE COURSE SHALL BE WITHIN PLUS OR MINUS ONE INCH OF THE PLAN THICKNESS SHOWN. THE CONTRACTOR WILL CORRECT ANY DEFICIENT THICKNESS THAT DOES NOT MEET TOLERANCE INDICATED. PAYMENT WILL NOT BE MADE FOR MATERIAL PLACED IN EXCESS OF THE TOLERANCE INDICATED.

3. THE FINAL 2" OF SURFACE COURSE IS TO BE PLACED AFTER ALL OTHER COURSES HAVE BEEN LAID. LONGITUDINAL JOINTS SHALL BE AT THE LANE LINES.

4. PRIOR TO AND DURING PLACEMENT OF PAVEMENT IN FRONT OF THE CURB AND GUTTER, THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AT ALL TIMES. THE METHOD(S) USED SHALL BE APPROVED BY THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS CONTRACT ITEMS.



TYPICAL SECTION - MARKHAM ST.

STA. 49+03.44 TO STA. 49+27.04

▲ SEE LAYOUT DETAILS FOR VARIATIONS

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

TYPICAL SECTIONS
(SHEET 6 OF 8)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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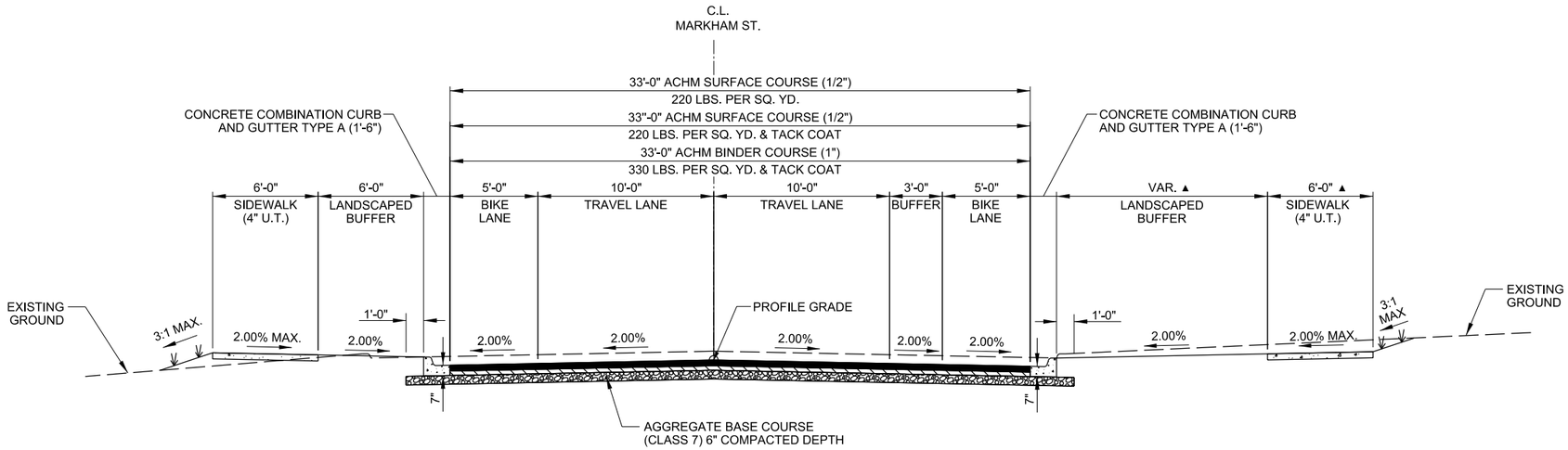
DRAWING NUMBER
C-106

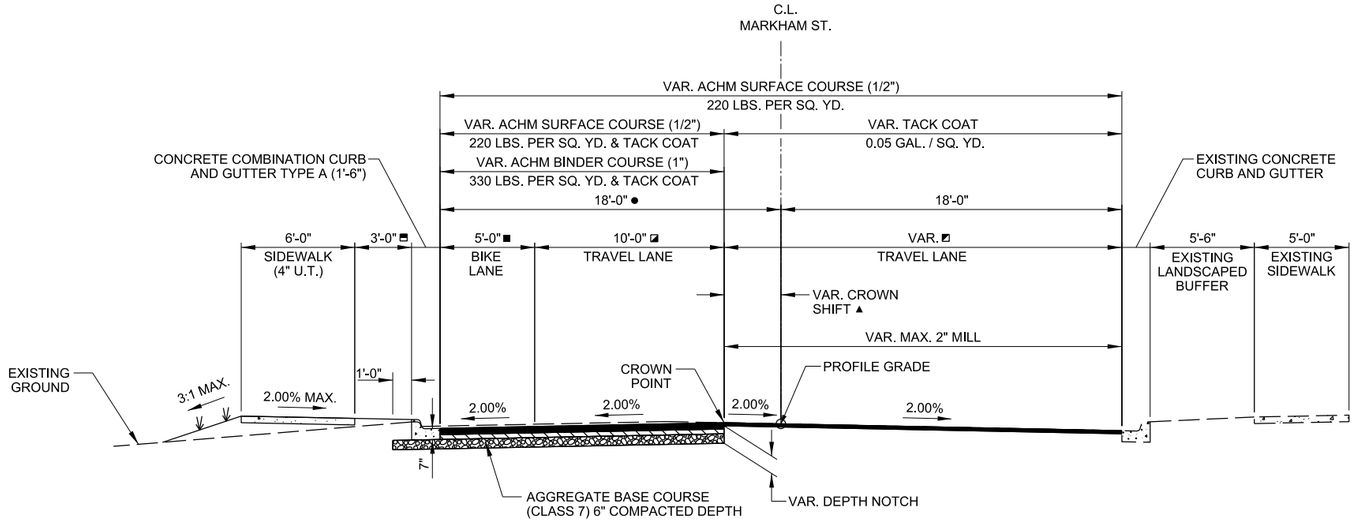
SHEET NUMBER **8**



▲ SEE LAYOUT DETAILS FOR VARIATIONS

TYPICAL SECTION - MARKHAM ST.

STA. 49+27.04 TO STA. 50+00.00



TYPICAL SECTION - MARKHAM ST.

STA. 50+00.00 TO STA. 51+00.00

▲ STA. 50+00.00 TO STA. 51+00.00 - TRANSITION 0'-0" TO 6'-0"
● STA. 50+00.00 TO STA. 50+50.00 - TRANSITION 15'-0" TO 18'-0"
■ STA. 50+50.00 TO STA. 51+00.00 - TRANSITION 5'-0" TO 0'-0"
◪ STA. 50+50.00 TO STA. 51+00.00 - TRANSITION 10'-0" TO 12'-0"
◩ STA. 50+00.00 TO STA. 51+00.00 - TRANSITION 18'-0" TO 24'-0"
⬒ STA. 50+00.00 TO STA. 50+50.00 - TRANSITION 6'-0" TO 3'-0"

TYPICAL SECTION GENERAL NOTES

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

2. THE THICKNESS OF AGG. BASE COURSE SHALL BE WITHIN PLUS OR MINUS ONE INCH OF THE PLAN THICKNESS SHOWN. THE CONTRACTOR WILL CORRECT ANY DEFICIENT THICKNESS THAT DOES NOT MEET TOLERANCE INDICATED. PAYMENT WILL NOT BE MADE FOR MATERIAL PLACED IN EXCESS OF THE TOLERANCE INDICATED.

3. ASPHALT FOR LEVELING OF EXISTING PAVEMENT SHALL BE PLACED ONLY IF AND WHERE DIRECTED BY THE ENGINEER. CALCULATIONS FOR THE AMOUNT OF LEVELING AND/OR LEVELING OPERATIONS SHALL BE PERFORMED BEFORE CONSTRUCTING NOTCH AND WIDENING. CALCULATIONS WILL NOT BE PAID FOR DIRECTLY, BUT PAYMENT WILL BE CONSIDERED INCLUDED IN THE VARIOUS CONTRACT ITEMS.

4. THE FINAL 2" OF SURFACE COURSE IS TO BE PLACED AFTER ALL OTHER COURSES HAVE BEEN LAID. LONGITUDINAL JOINTS SHALL BE AT THE LANE LINES.

5. THE EXISTING ASPHALT PAVEMENT TO BE REMOVED FROM THE REMAINING PAVEMENT SHALL BE SEPARATED BY SAWING ALONG A NEAT LINE. AFTER SAWING, THE PAVEMENT TO BE REMOVED SHALL BE CAREFULLY REMOVED IN A MANNER THAT WILL NOT DAMAGE THE PAVEMENT THAT IS TO REMAIN. ANY DAMAGE TO THE ASPHALT PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

6. PRIOR TO AND DURING PLACEMENT OF PAVEMENT IN FRONT OF THE CURB AND GUTTER, THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AT ALL TIMES. THE METHOD(S) USED SHALL BE APPROVED BY THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS CONTRACT ITEMS.

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

TYPICAL SECTIONS
(SHEET 7 OF 8)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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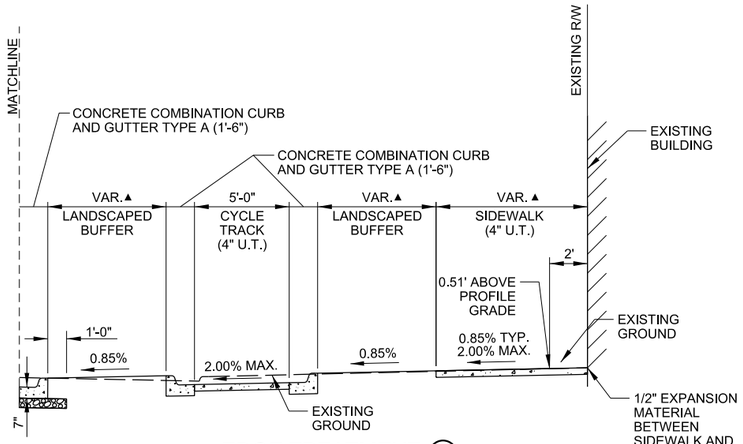
DRAWING NUMBER
C-107

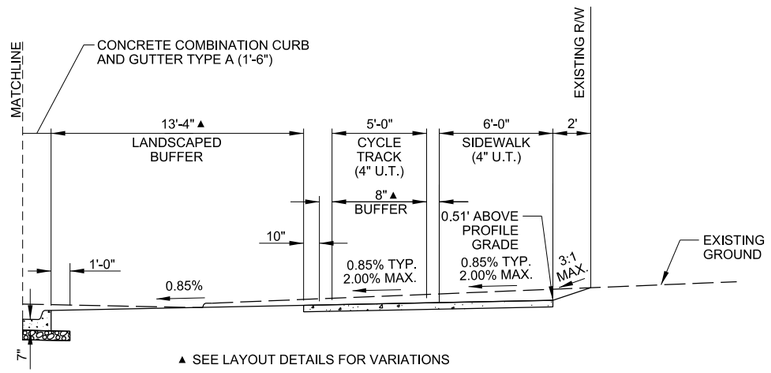
SHEET NUMBER **9**



EDGE TREATMENT ①

STA. 27+05.00 TO STA. 27+49.71

▲ SEE LAYOUT DETAILS FOR VARIATIONS



▲ SEE LAYOUT DETAILS FOR VARIATIONS

EDGE TREATMENT ④

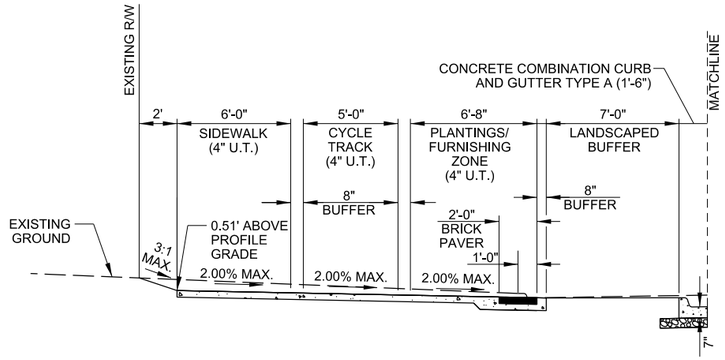
STA. 30+24.27 TO STA. 30+31.98
STA. 30+82.72 TO STA. 31+55.85
STA. 31+48.57 TO STA. 31+66.30 (LEFT SIDE)
STA. 32+43.62 TO STA. 32+51.33 (LEFT SIDE)
STA. 32+79.97 TO STA. 33+21.93 (LEFT SIDE)
STA. 33+27.08 TO STA. 33+34.79
STA. 34+83.37 TO STA. 34+91.08
STA. 34+96.18 TO STA. 35+38.20 (LEFT SIDE)
STA. 36+20.18 TO STA. 36+90.75 (LEFT SIDE)
STA. 36+57.29 TO STA. 36+75.02
STA. 38+17.73 TO STA. 38+35.46
STA. 38+26.67 TO STA. 38+55.30 (LEFT SIDE)
STA. 40+04.67 TO STA. 40+22.41
STA. 40+34.44 TO STA. 40+42.14 (LEFT SIDE)
STA. 41+59.23 TO STA. 41+66.94
STA. 41+73.91 TO STA. 41+91.63 (LEFT SIDE)
STA. 43+33.02 TO STA. 43+50.72
STA. 43+57.84 TO STA. 43+65.55 (LEFT SIDE)
STA. 45+08.19 TO STA. 45+15.90
STA. 45+23.68 TO STA. 45+41.35 (LEFT SIDE)

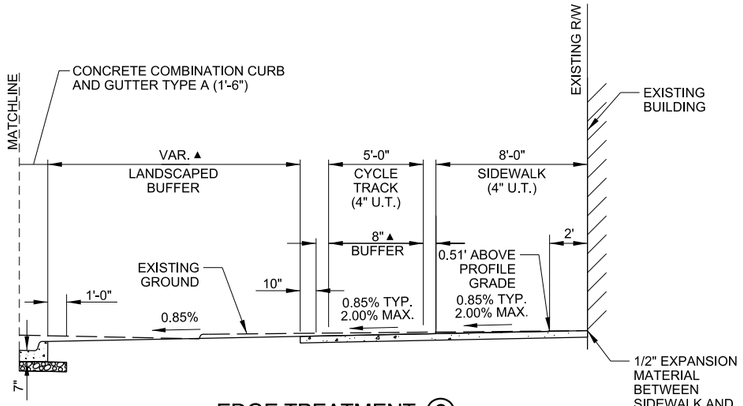
TYPICAL SECTION GENERAL NOTES

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

2. THE EXISTING PAVEMENT TO BE REMOVED FROM THE REMAINING PAVEMENT SHALL BE SEPARATED BY SAWING ALONG A NEAT LINE. AFTER SAWING, THE PAVEMENT TO BE REMOVED SHALL BE CAREFULLY REMOVED IN A MANNER THAT WILL NOT DAMAGE THE PAVEMENT THAT IS TO REMAIN. ANY DAMAGE TO THE PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

3. THE SIDEWALK ELEVATION SHALL MATCH THE FINISHED FLOOR ELEVATION AT BUILDING ENTRY POINTS WHEN THE FACE OF STRUCTURE IS LOCATED AT THE EXISTING R/W LINE. THE SDIEWALK AND CYCLE TRACK LONGITUDIAL GRADE SHALL NOT EXCEED 5% SLOPE WHEN TRANSITIONING FROM NORMAL CROSS SLOPES TO EXISTING FINISHED FLOOR ELEVATIONS. POSITIVE DRAINAGE FROM BUILDING FACES TO THE STREET SHALL BE MAINTAINED AT ALL LOCATIONS. REFER TO CROSS SECTIONS FOR DEVIATIONS FROM NORMAL CROSS SLOPES AT EXISTING BUILDING LOCATIONS. NO CHANGES SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.

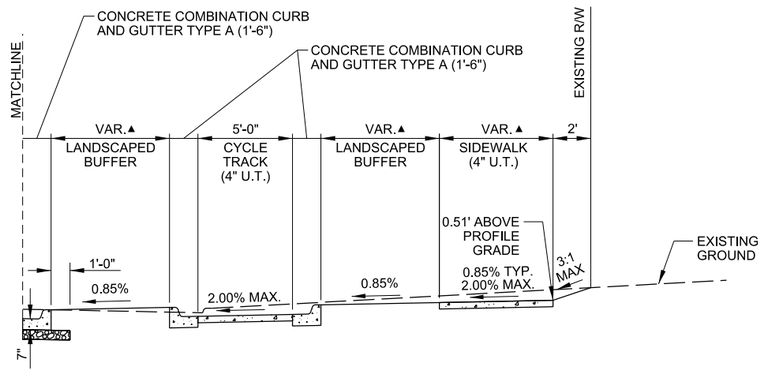




EDGE TREATMENT ②

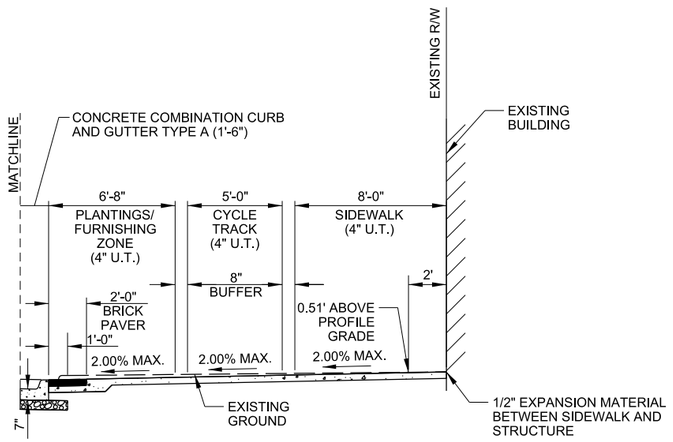
STA. 27+49.71 TO STA. 27+67.38
STA. 36+14.63 TO STA. 36+48.83 (LEFT SIDE)

▲ SEE LAYOUT DETAILS FOR VARIATIONS



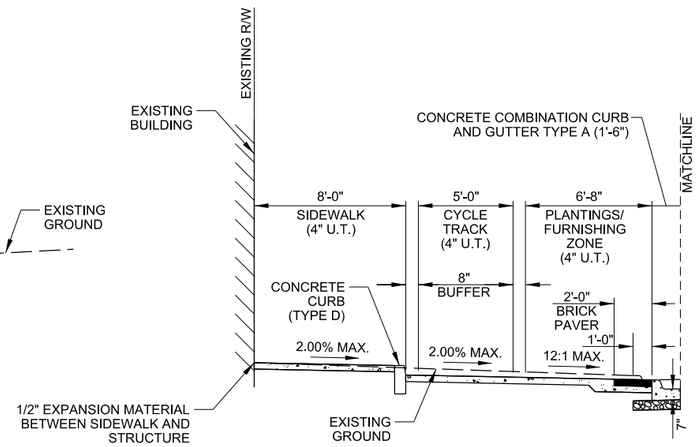
EDGE TREATMENT ⑤

STA. 31+58.56 TO STA. 31+92.95
STA. 33+14.22 TO STA. 33+17.07
STA. 35+01.09 TO STA. 35+03.89
STA. 38+72.57 TO STA. 38+92.41 (LEFT SIDE)
STA. 40+14.70 TO STA. 40+24.51 (LEFT SIDE)
STA. 41+76.85 TO STA. 41+81.61
STA. 42+13.95 TO STA. 42+28.73 (LEFT SIDE)
STA. 43+43.02 TO STA. 43+47.84 (LEFT SIDE)
STA. 45+25.86 TO STA. 45+31.39
STA. 45+62.96 TO STA. 45+78.45 (LEFT SIDE)
STA. 46+92.06 TO STA. 46+97.56 (LEFT SIDE)



EDGE TREATMENT ③

STA. 27+67.38 TO STA. 27+76.59
STA. 31+77.18 TO STA. 32+25.93 (LEFT SIDE)



EDGE TREATMENT ⑦

STA. 31+68.80 TO STA. 32+41.12

EDGE TREATMENT ⑥

STA. 38+07.51 TO STA. 38+26.67

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

TYPICAL SECTIONS
(SHEET 8 OF 8)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

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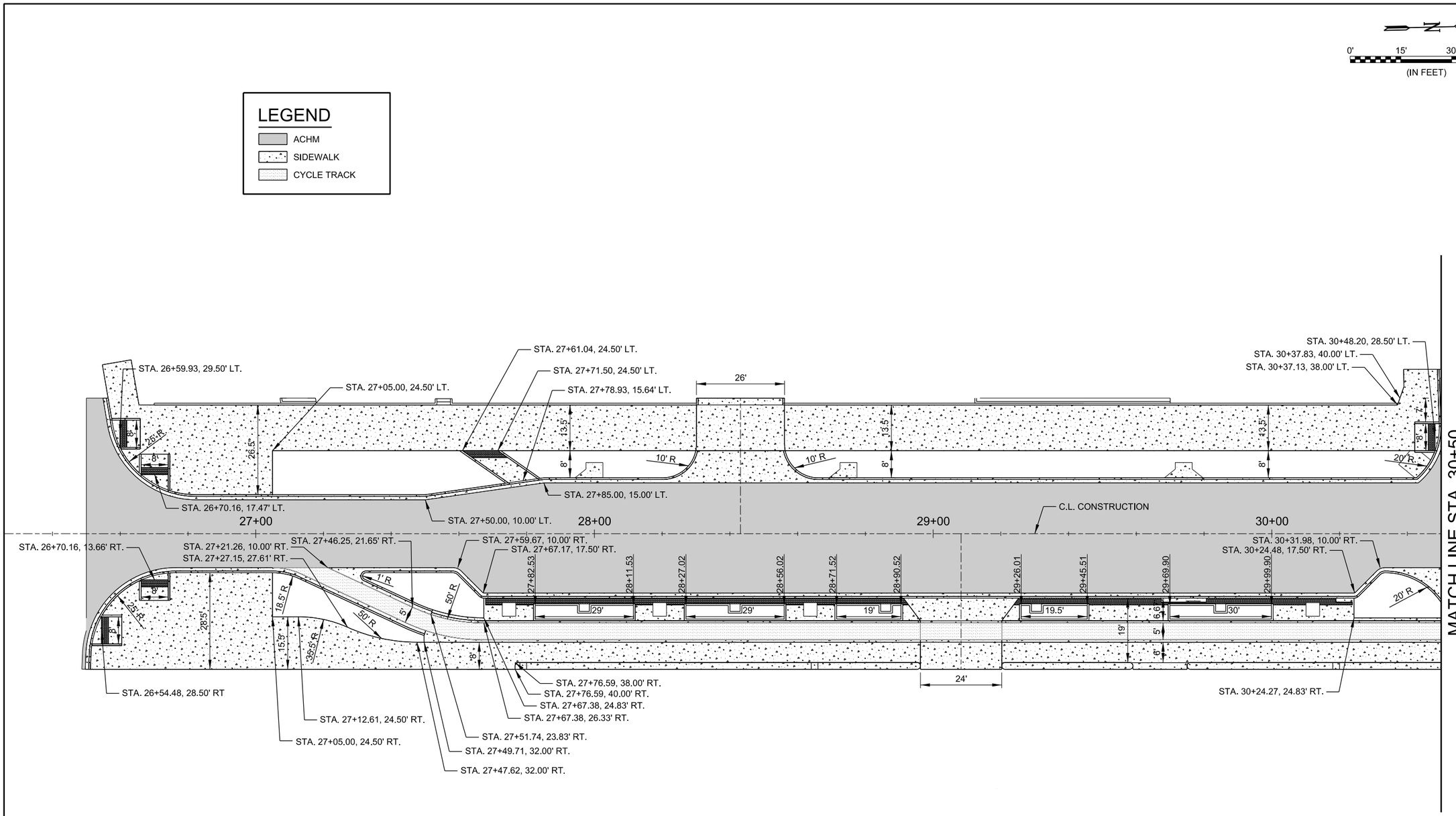
DRAWING NUMBER
C-108

SHEET NUMBER **10**



FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

LAYOUT DETAILS
(SHEET 1 OF 6)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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DRAWING NUMBER
C-201

SHEET NUMBER **11**

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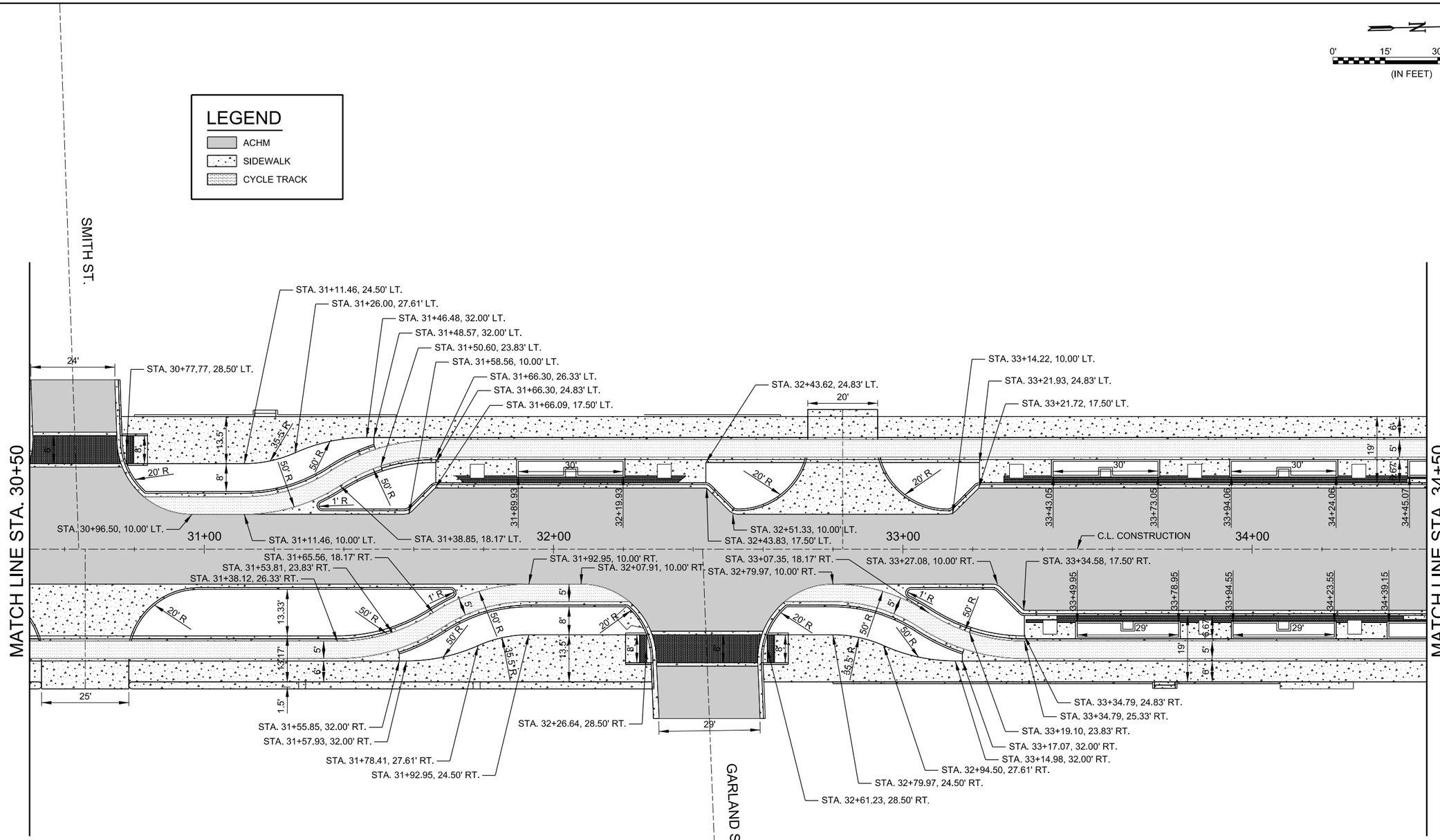

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

LAYOUT DETAILS
(SHEET 2 OF 6)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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

DRAWING NUMBER
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SHEET NUMBER **12**

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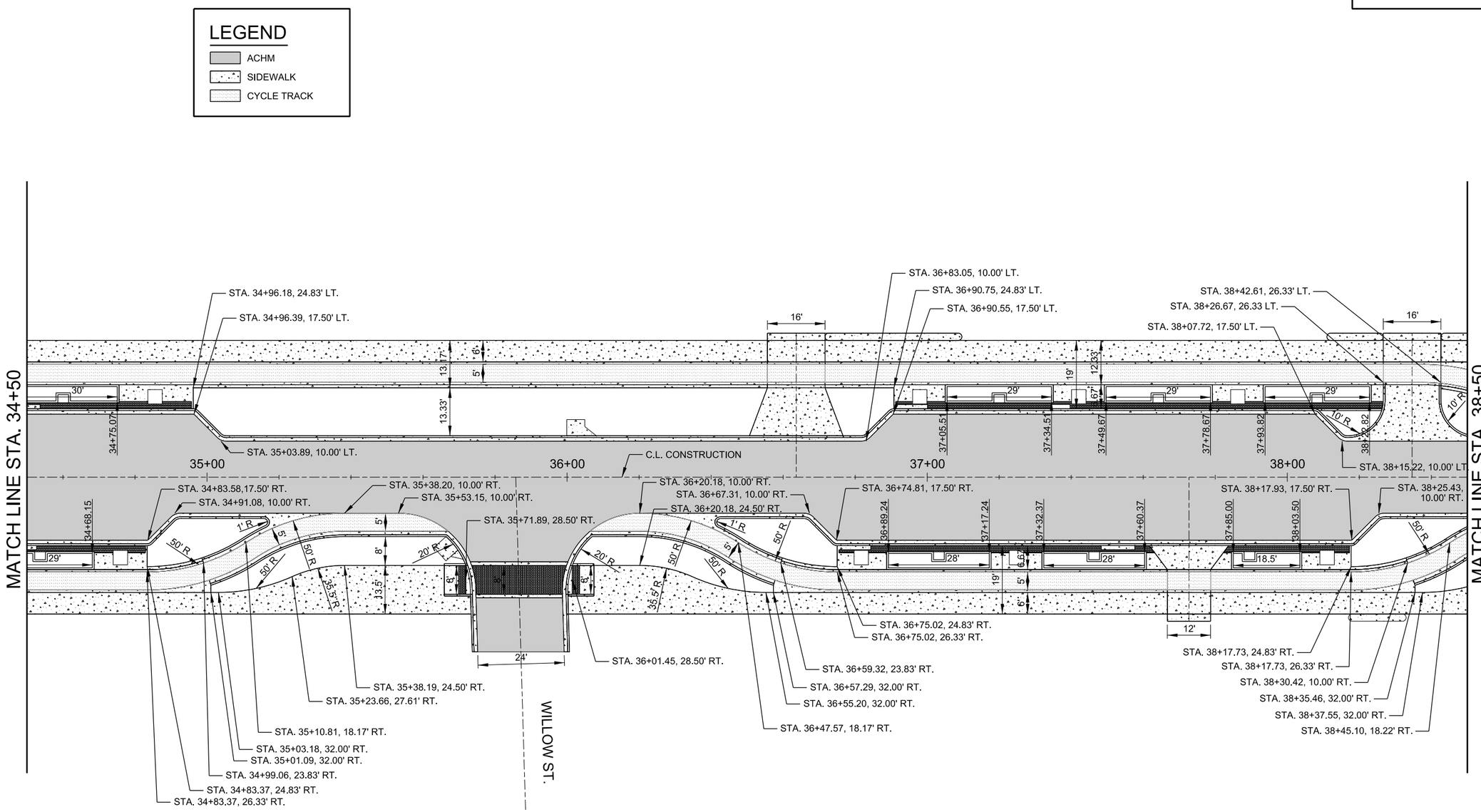

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

LAYOUT DETAILS
(SHEET 3 OF 6)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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

DRAWING NUMBER
C-203

SHEET NUMBER **13**

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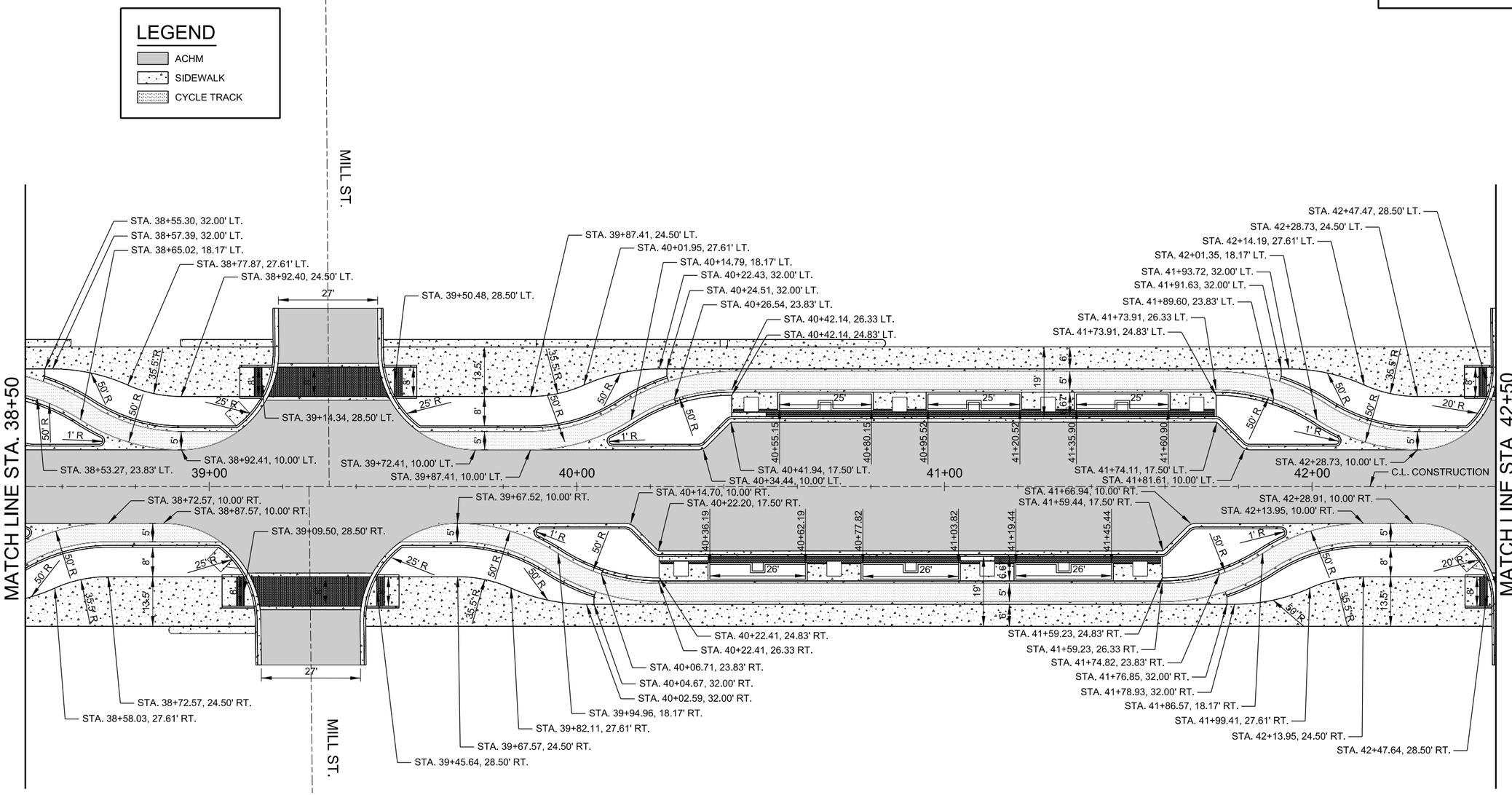

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

LAYOUT DETAILS
(SHEET 4 OF 6)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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

DRAWING NUMBER
C-204

SHEET NUMBER **14**

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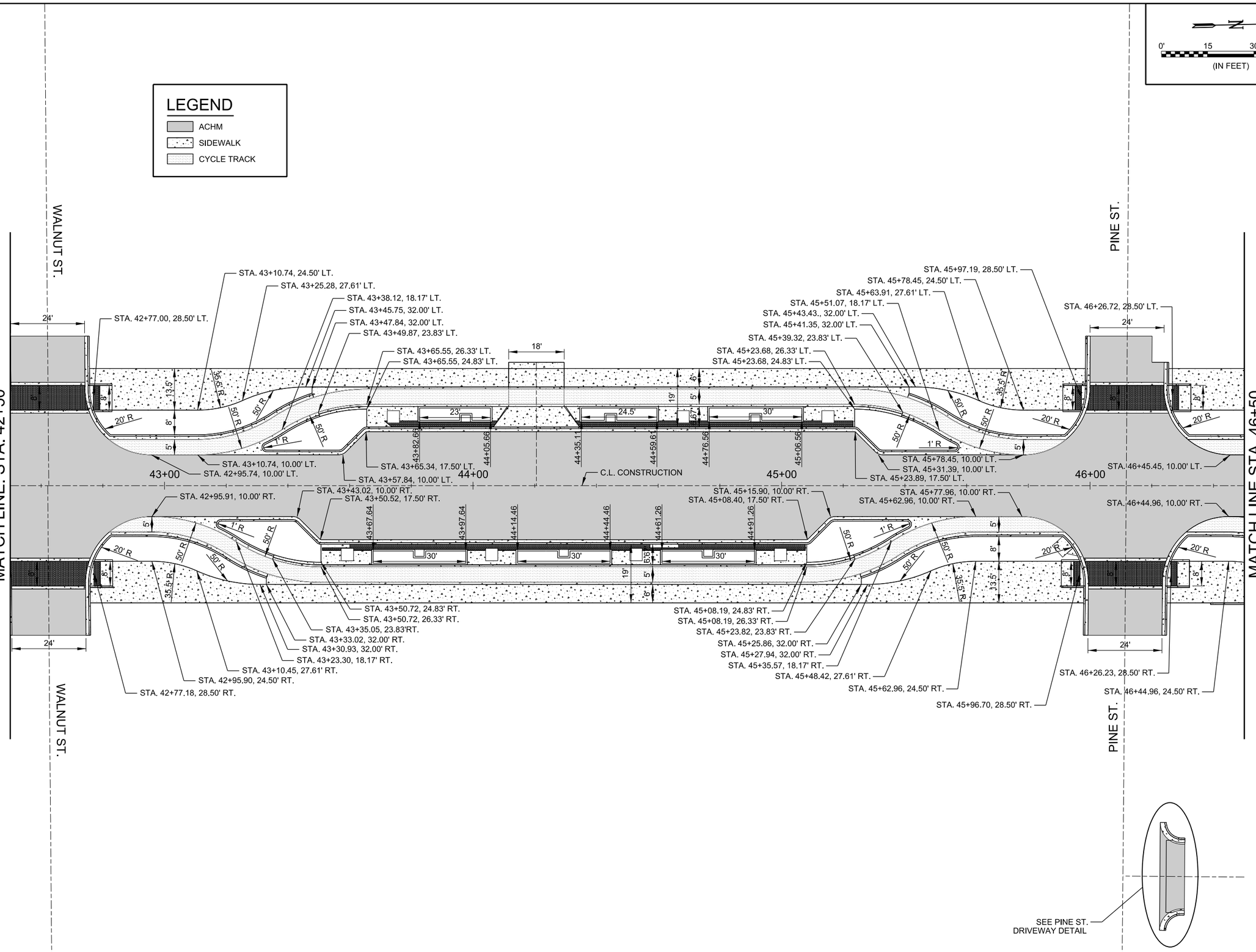

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

LAYOUT DETAILS
(SHEET 5 OF 6)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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

DRAWING NUMBER
C-205

SHEET NUMBER **15**

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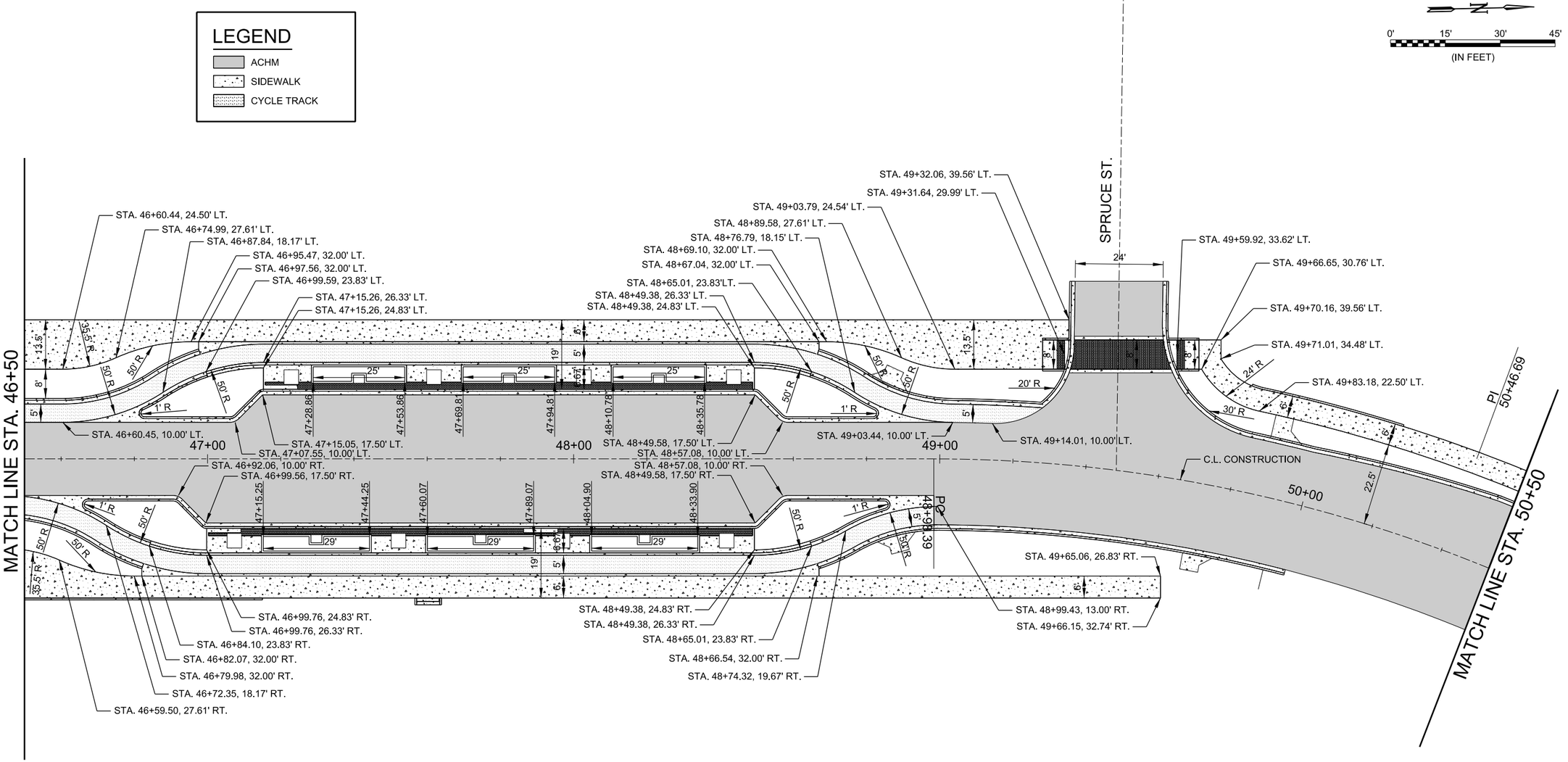

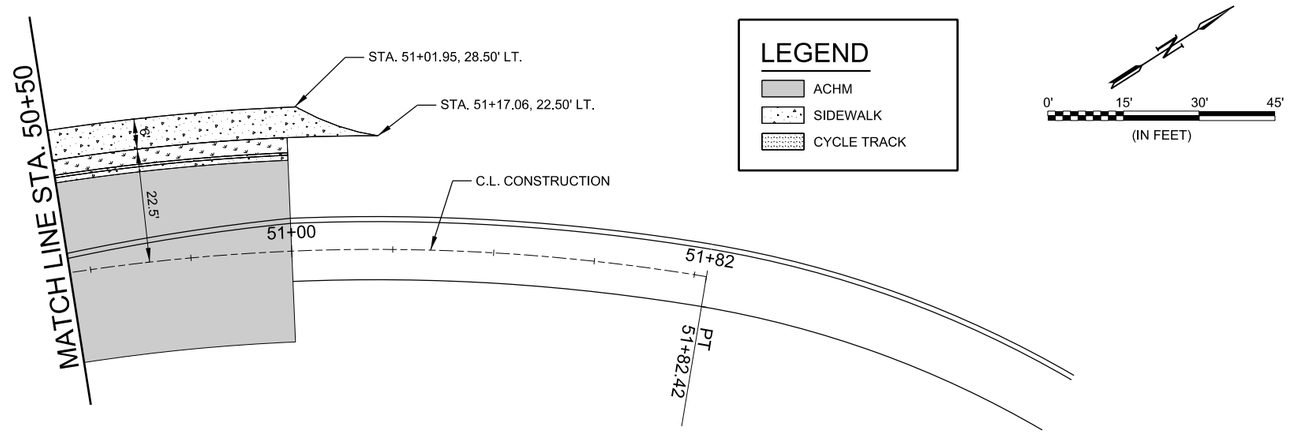

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

LAYOUT DETAILS
(SHEET 6 OF 6)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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DRAWING NUMBER
C-206

SHEET NUMBER **16**

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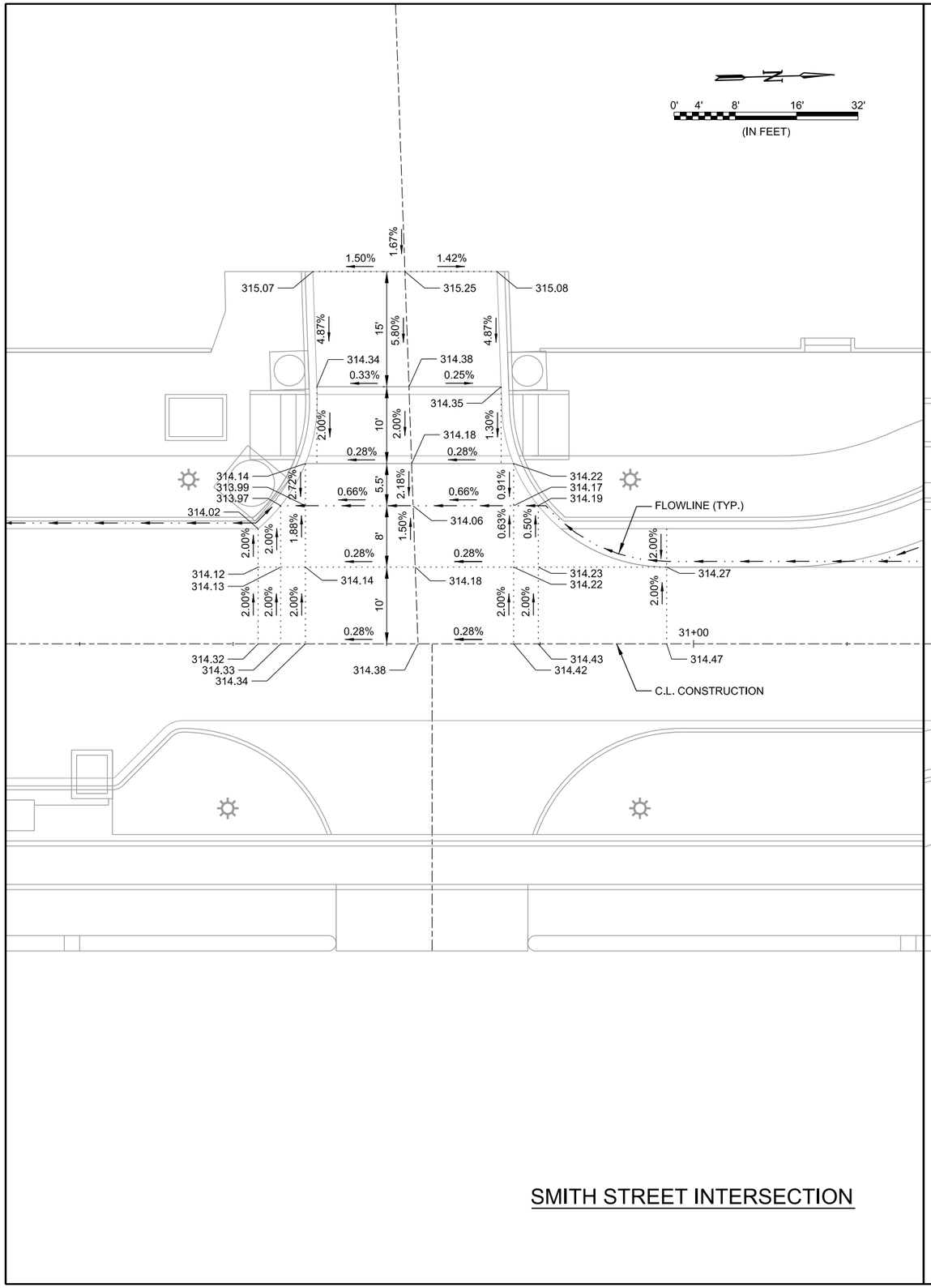

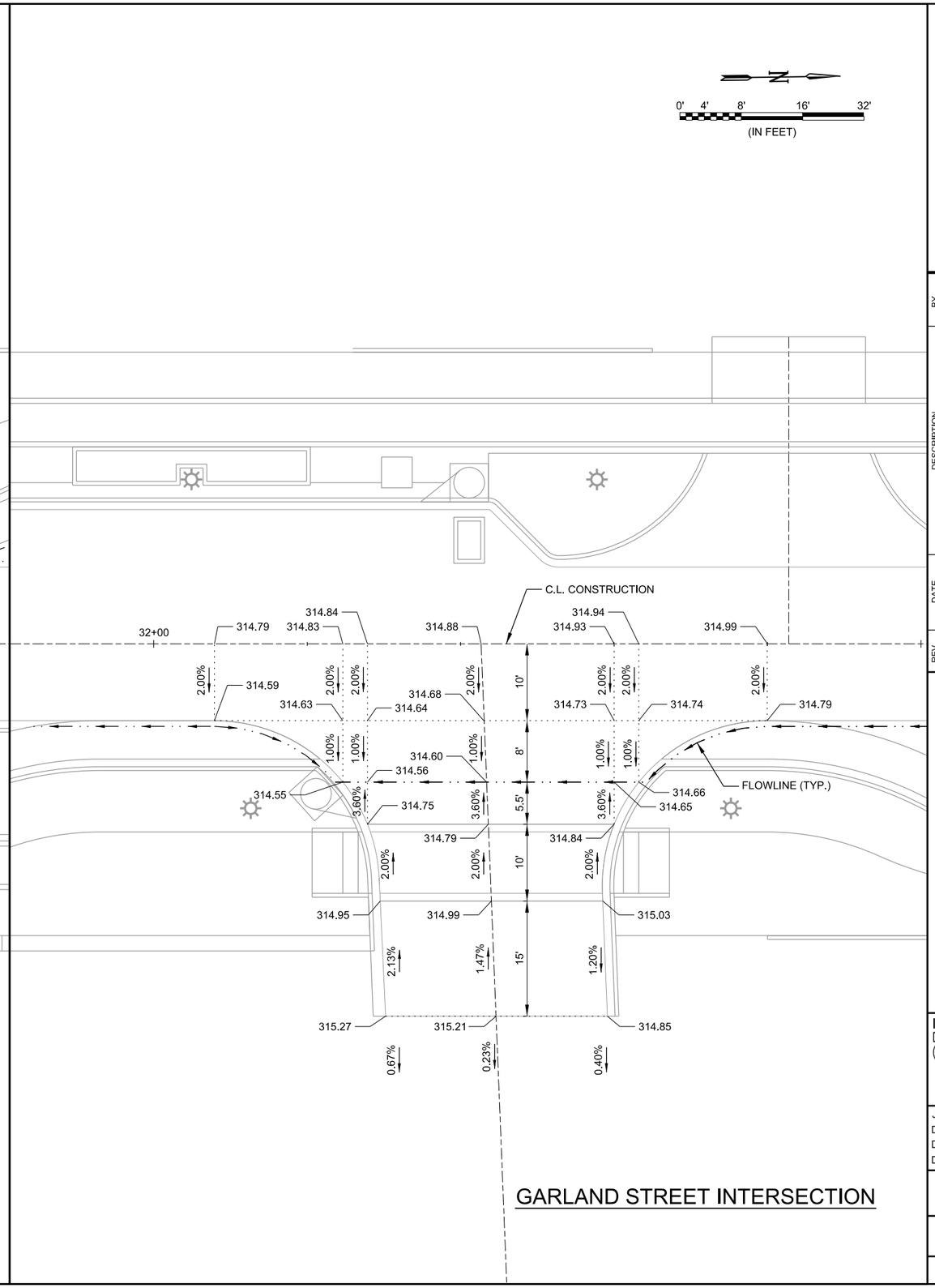

SMITH STREET INTERSECTION

GARLAND STREET INTERSECTION

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

INTERSECTION
DETAILS
(SHEET 1 OF 4)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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DRAWING NUMBER
C-207

SHEET
NUMBER **17**

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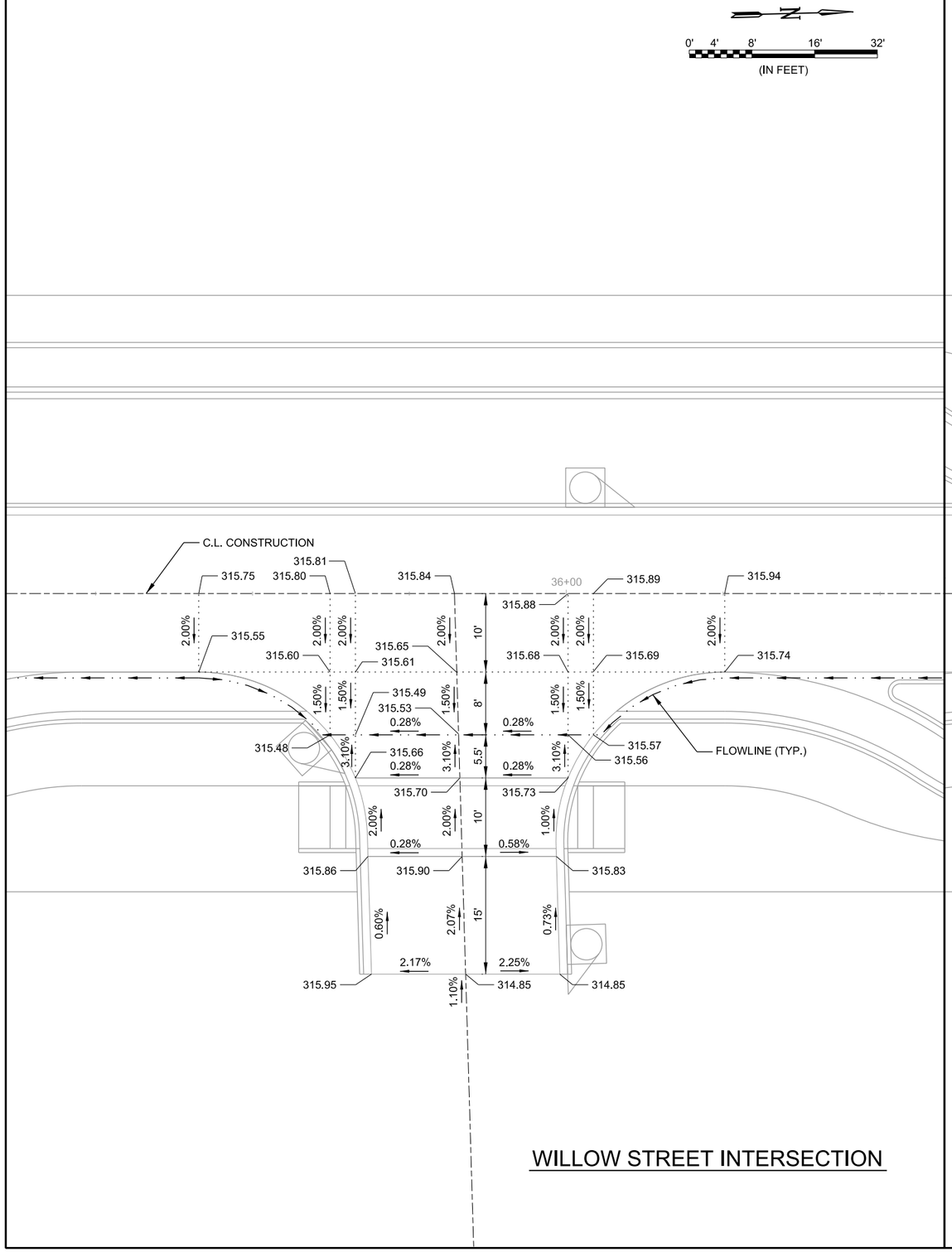
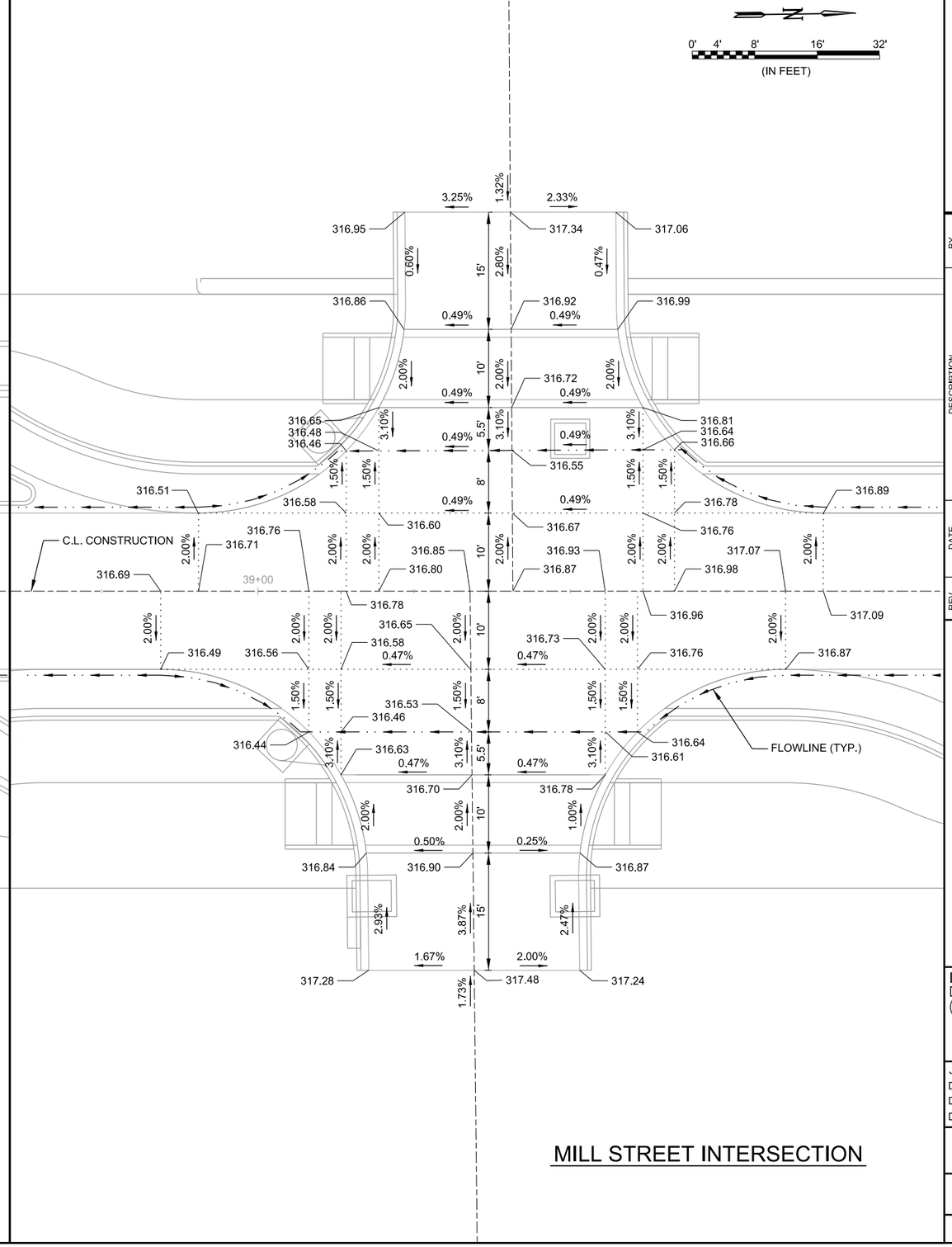


WILLOW STREET INTERSECTION



MILL STREET INTERSECTION

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

INTERSECTION DETAILS
(SHEET 2 OF 4)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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DRAWING NUMBER
C-208

SHEET NUMBER **18**

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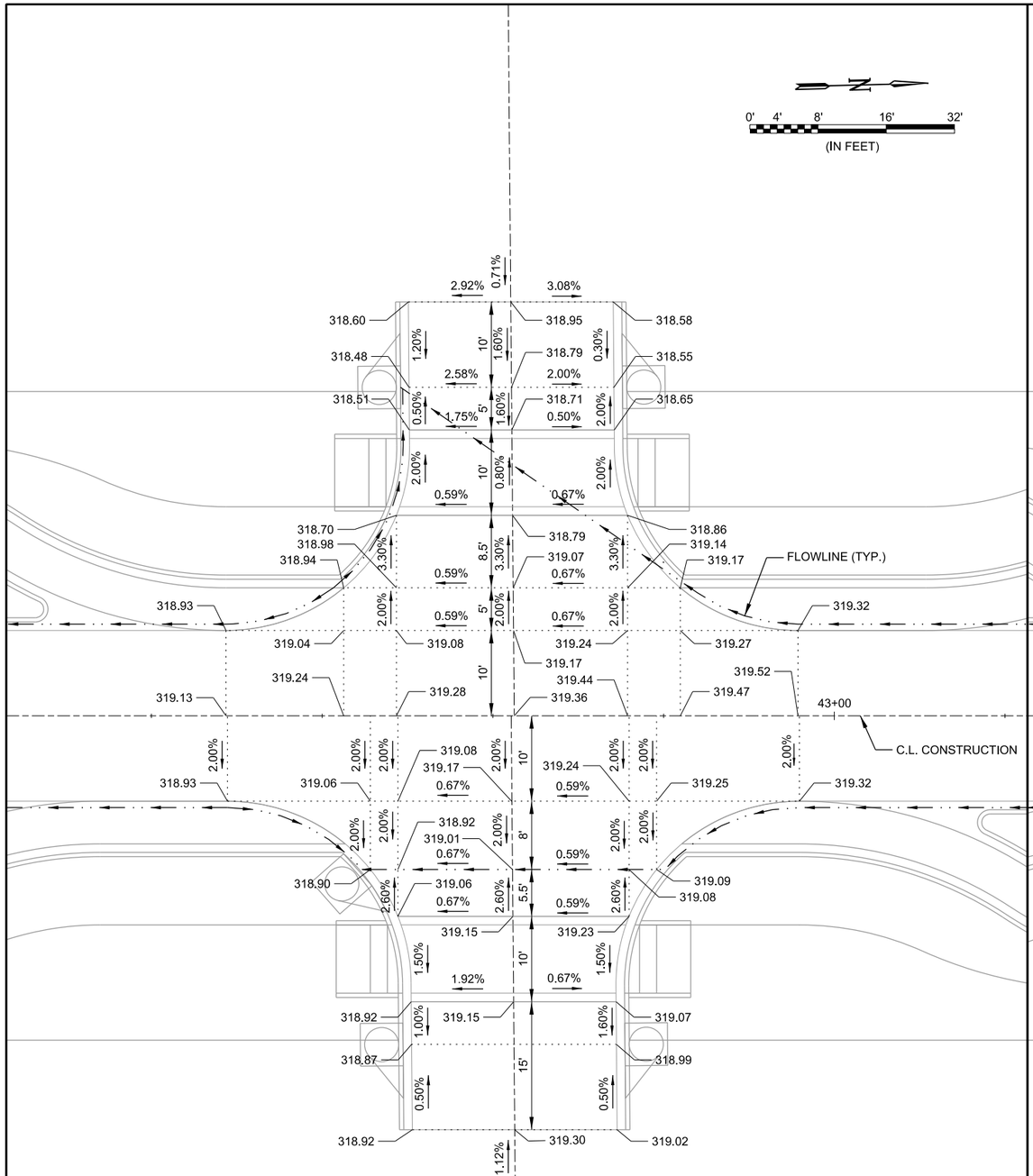

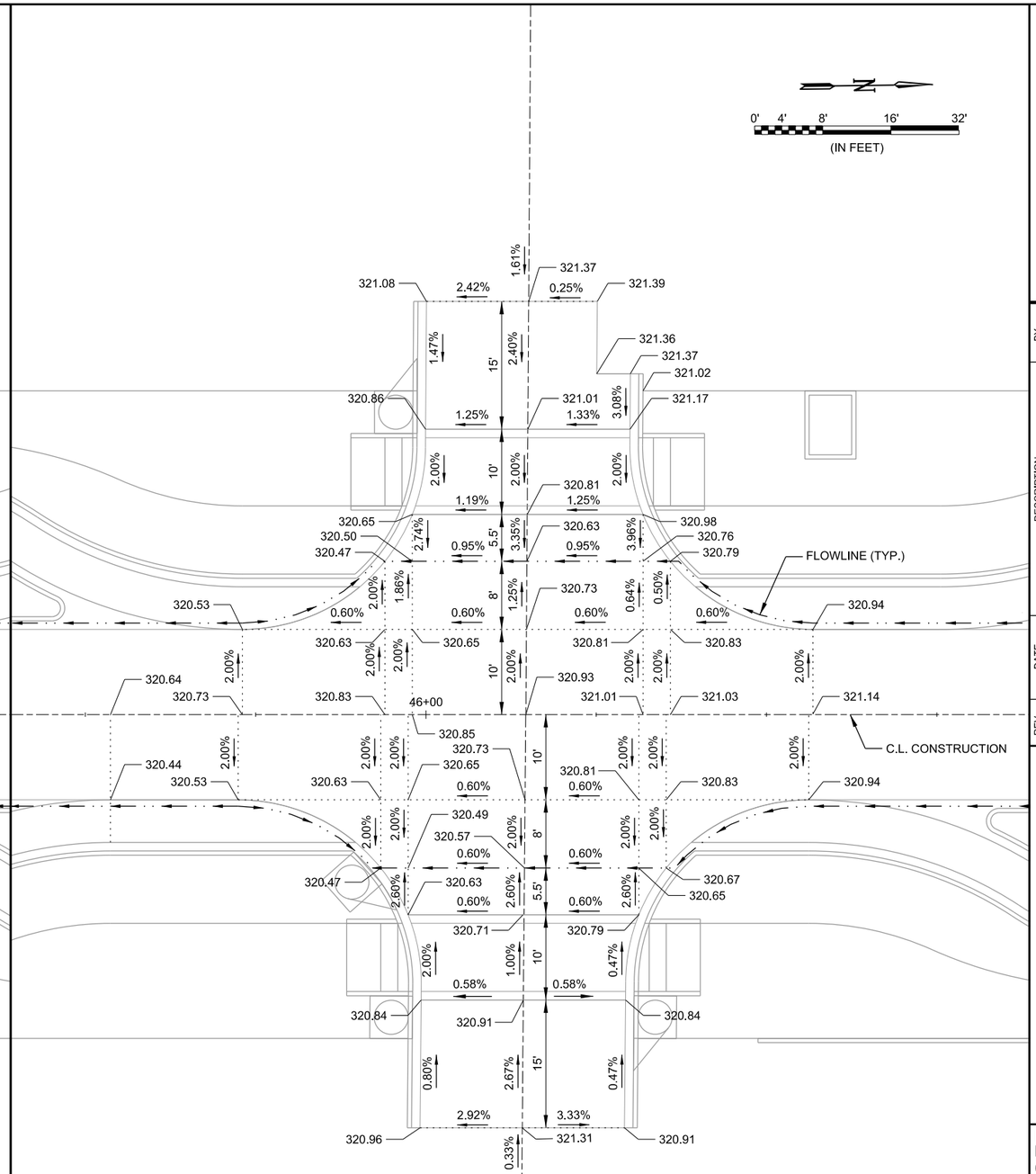

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

INTERSECTION DETAILS
(SHEET 3 OF 4)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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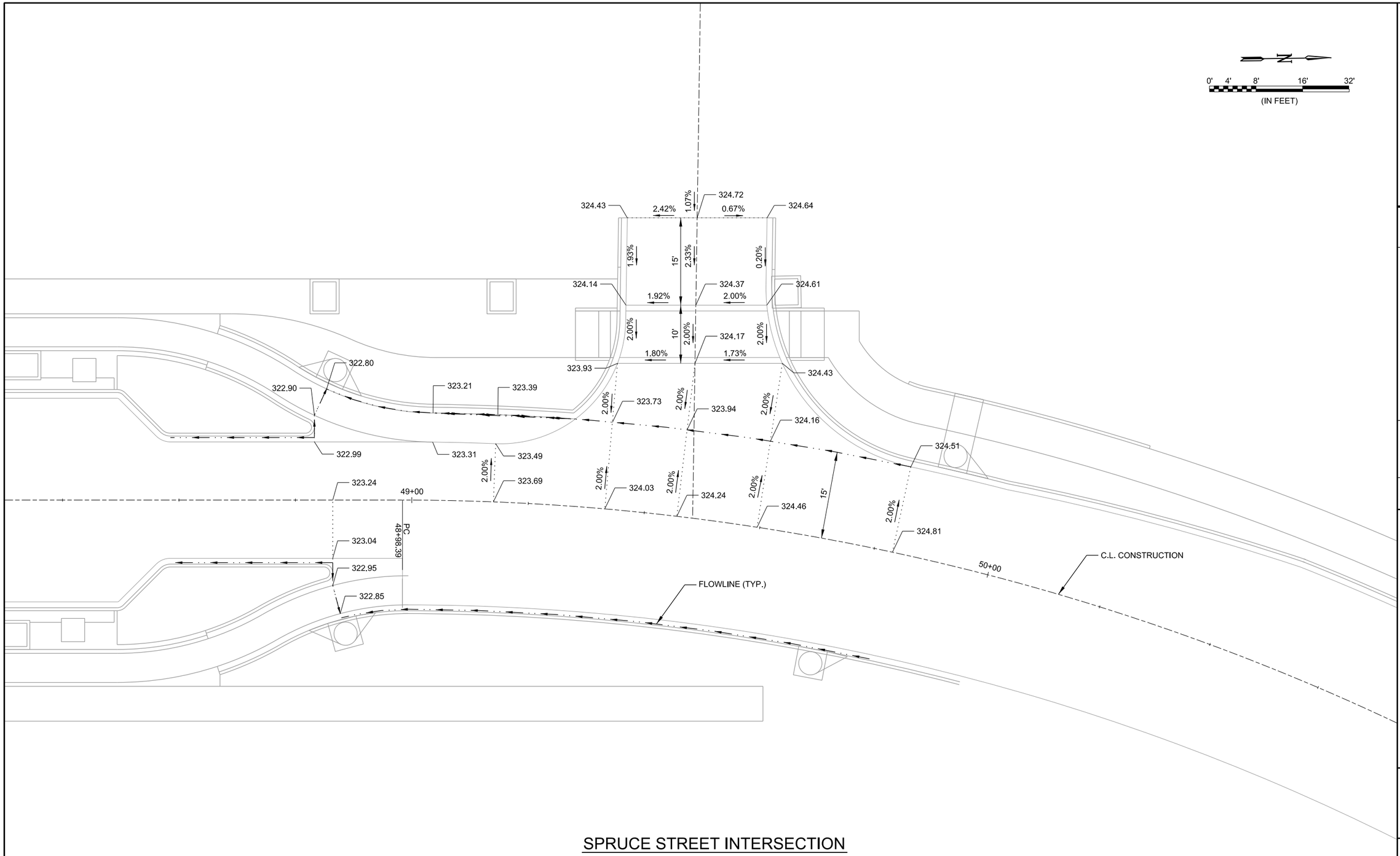
DRAWING NUMBER
C-209

SHEET NUMBER **19**



SPRUCE STREET INTERSECTION

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

INTERSECTION
DETAILS
(SHEET 4 OF 4)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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ORIGINAL DRAWING
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DRAWING NUMBER
C-210

SHEET
NUMBER **20**

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WORKSPACE:Garver_2012 - Conway
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0' 2.5' 5' 10' 15'

(IN FEET)

* TOP OF CURB ELEVATIONS SHALL BE SET TO MAINTAIN TYPICAL CROSS SLOPE ACROSS LANDSCAPED AREAS AS SHOWN. CURB HEIGHT IS INDEPENDENT OF CYCLE TRACK ELEVATION IN TRANSITION AREAS

LONGITUDINAL TOOL JOINT REQ'D. (TYP.)

0.51' ABOVE PROFILE GRADE AT BACK OF SIDEWALK (TYP.)

+/- 20'
VARY CROSS SLOPE AND GRADE AS REQ'D. TO MATCH SIDE ROAD CURB ELEVATIONS
CROSS SLOPE: 2.00% MAX
LONGITUDINAL GRADE: 5.00% MAX

6'-0" SIDEWALK

8"

5'-0" CYCLE TRACK

8"

0.44' ABOVE PROFILE GRADE AT BOC

CYCLE TRACK - VERTICAL TRANSITION

MATCH TYPICAL

CURB HEIGHT VARIES 0" TO 6" *

0.39' ABOVE PROFILE GRADE

0.38' ABOVE PROFILE GRADE AT BOC

0.13' ABOVE PROFILE GRADE AT BOC

0.29' ABOVE PROFILE GRADE AT BOC

0.38' ABOVE PROFILE GRADE AT BOC

EXPANSION JOINT SEE CYCLE TRACK DETAILS

GUTTER FLOWLINE (TYP.)

0.29' ABOVE PROFILE GRADE AT BOC

17'-6"

10'-0"

9"

C.L. CONSTRUCTION

2.00% 0.85% 0.60%

EXPANSION JOINT SEE CYCLE TRACK DETAILS

GUTTER FLOWLINE (TYP.)

9"

0.13' ABOVE PROFILE GRADE AT BOC

0.29' ABOVE PROFILE GRADE AT BOC

CURB HEIGHT VARIES 0" TO 6" *

0.38' ABOVE PROFILE GRADE AT BOC

0.39' ABOVE PROFILE GRADE AT BOC

0.38' ABOVE PROFILE GRADE AT BOC

CYCLE TRACK - VERTICAL TRANSITION

CURB HEIGHT VARIES 0" TO 6" *

MATCH TYPICAL

0.44' ABOVE PROFILE GRADE AT BOC

0.39' ABOVE PROFILE GRADE AT BOC

+/- 20'
VARY CROSS SLOPE AND GRADE AS REQ'D. TO MATCH SIDE ROAD CURB ELEVATIONS
CROSS SLOPE: 2.00% MAX
LONGITUDINAL GRADE: 5.00% MAX

0.51' ABOVE PROFILE GRADE AT BACK OF SIDEWALK (TYP.)

LONGITUDINAL TOOL JOINT REQ'D. (TYP.)

LEGEND

- CONCRETE SIDEWALK (4' U.T.)
- CONCRETE COMBINATION CURB AND GUTTER TYPE A (1'-6")
- CONCRETE COMBINATION CURB AND GUTTER TYPE A (6'-6")
- LANDSCAPED AREA

CYCLE TRACK TRANSITION DETAIL

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

MISCELLANEOUS DETAILS
(SHEET 1 OF 8)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

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DRAWING NUMBER
C-211

SHEET NUMBER **21**

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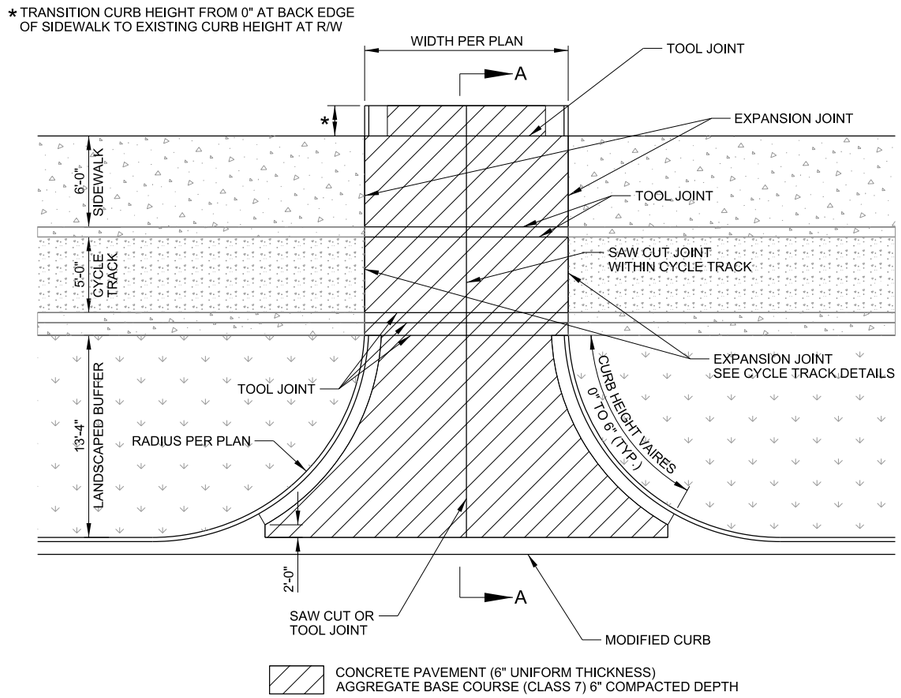
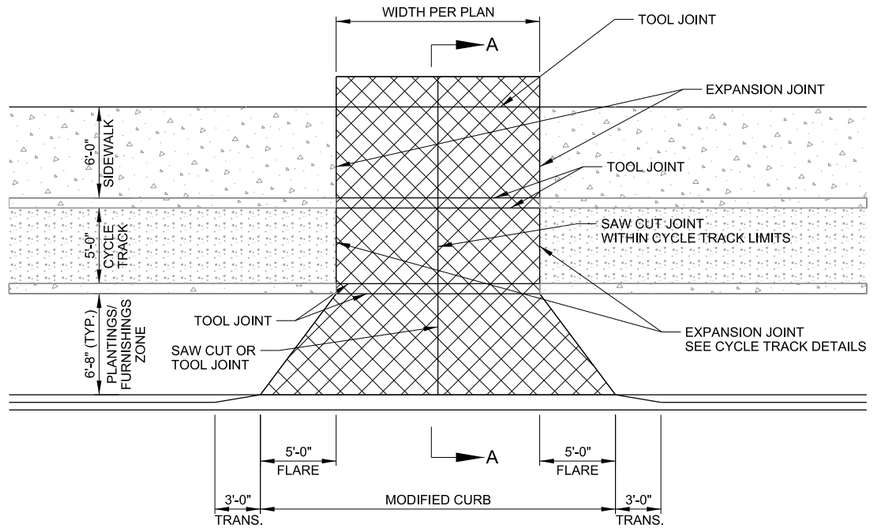
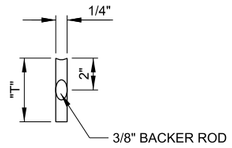


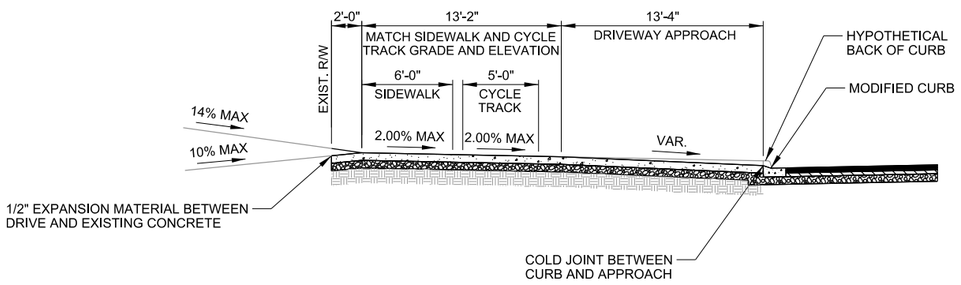
PLAN VIEW



PLAN VIEW



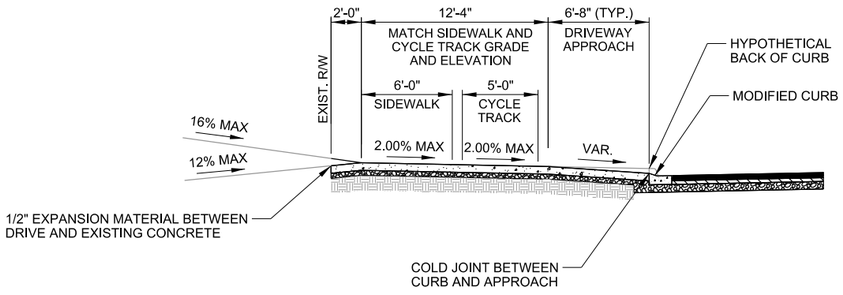
JOINT SEALER DETAIL



SECTION A-A

CONCRETE DRIVEWAY (TYPE I) DETAIL

N.T.S.



SECTION A-A

CONCRETE DRIVEWAY (TYPE II) DETAIL

N.T.S.

NOTES:
1. FULL DEPTH EXPANSION JOINTS (FOUR INCHES) SHALL BE PROVIDED AT THE EDGE OF THE SIDEWALK OPPOSITE THE STREET.
2. CONCRETE TO BE SAW-CUT OR PLACE A TOOL JOINT AT THE CENTER OF DRIVE AND SEALED. IF POSSIBLE CONTRACTOR SHALL TRY TO ALIGN THE JOINT AT THE CENTER OF THE DRIVE WITH THE A JOINT IN THE ADJACENT SIDEWALK.
3. ALL WORK SHALL COMPLY WITH SECTION 505 OF THE ARKANSAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION, 2014 EDITION

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

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LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

MISCELLANEOUS DETAILS
(SHEET 2 OF 8)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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DRAWING NUMBER
C-212

SHEET NUMBER **22**

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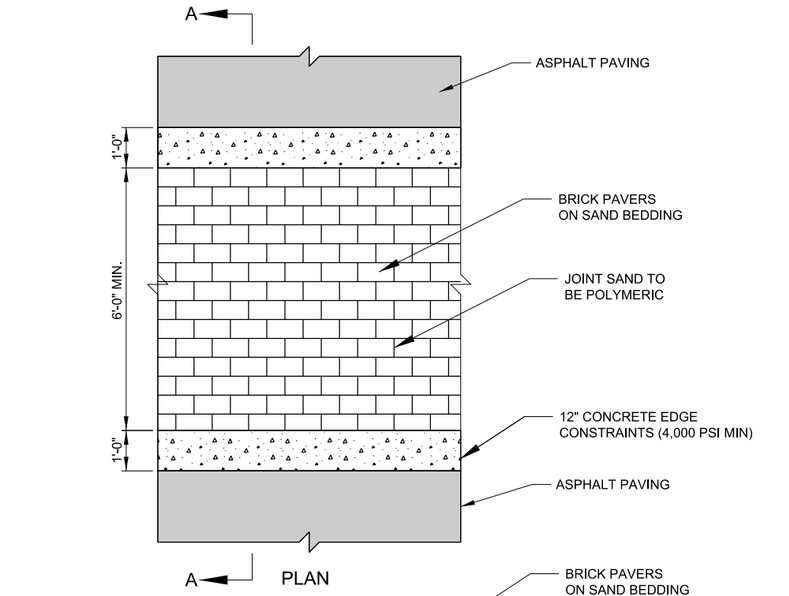
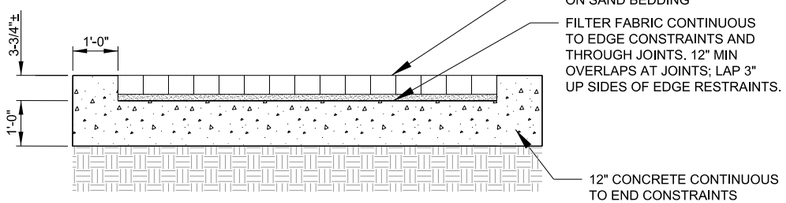




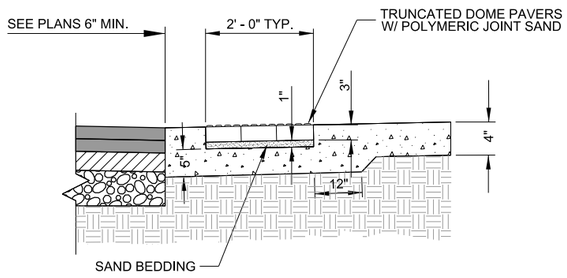
SECTION A-A

NOTES

1. PAVERS TO BE SURROUNDED WITH 1'-0" CONCRETE BAND FOR EDGE RESTRAINT.
2. JOINT SAND SHALL BE POLYMERIC.
3. PAVER SHALL BE PINE HALL ENGLISH EDGE HEAVY DUTY RED (4"x8"x2-3/4") OR APPROVED EQUAL.
4. SAND BEDDING FOR PAVERS TO BE MAX. 1" TO MIN. 1/2" THICK MASONRY SAND.

BRICK PAVER CROSSWALKS

N.T.S.

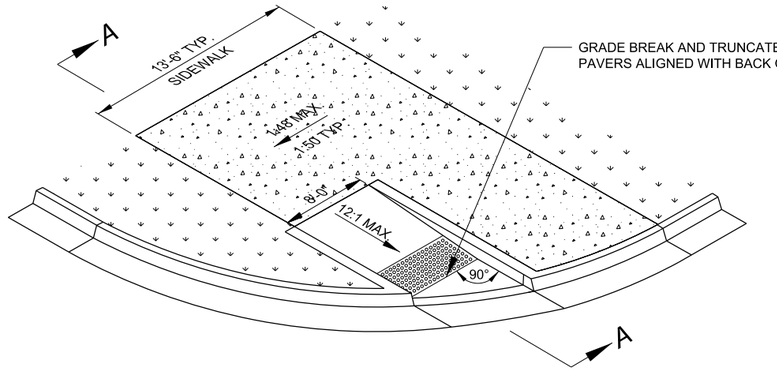


NOTES:

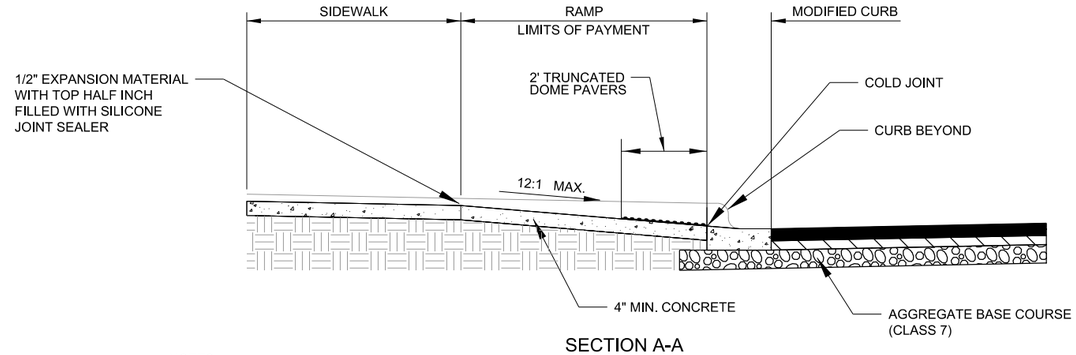
1. PAVERS TO BE SURROUNDED WITH 6" MIN. CONCRETE BAND FOR EDGE RESTRAINT.
2. JOINT SAND SHALL BE POLYMERIC.
3. TRUNCATED DOME PAVERS TO BE PINE HALL 4"x8" TRUNCATED ADA RED 360 OR APPROVED EQUAL.
4. SAND BEDDING FOR PAVERS TO BE MAX. 1" TO MIN. 1/2" THICK MASONRY SAND.

TRUNCATED DOME PAVERS

N.T.S.



PLAN



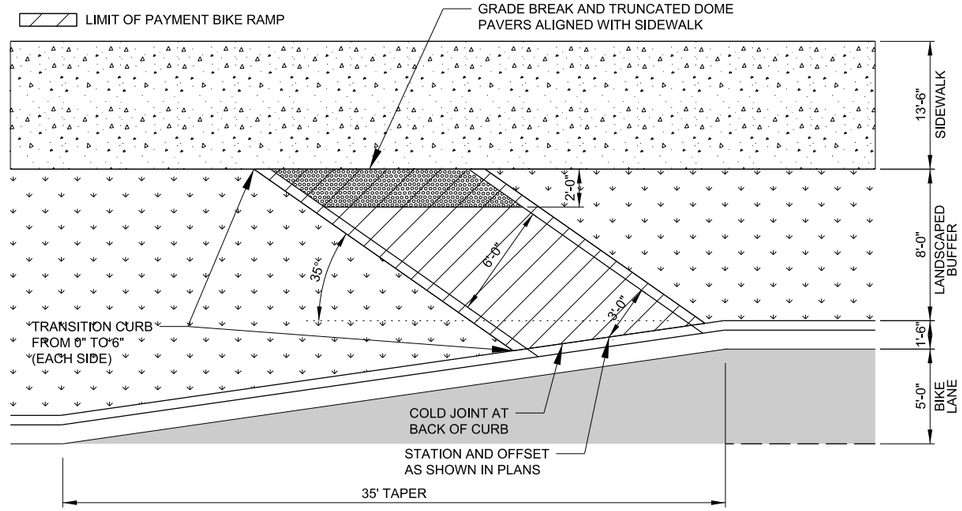
SECTION A-A

NOTES:

1. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH SECTION 633 OF THE ARKANSAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2014 DITION.
2. FULL DEPTH EXPANSION JOINTS (FOUR INCHES) SHALL BE PROVIDED AT THE EDGE OF THE SIDEWALK AND RAMP.
3. ALL SIDEWALKS AND DRIVEWAY APPROACHES SHALL BE CONSTRUCTED WITH A BROOM FINISH.

ACCESS RAMP DETAIL

N.T.S.



BIKE RAMP DETAIL

N.T.S.

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

MISCELLANEOUS
DETAILS
(SHEET 3 OF 8)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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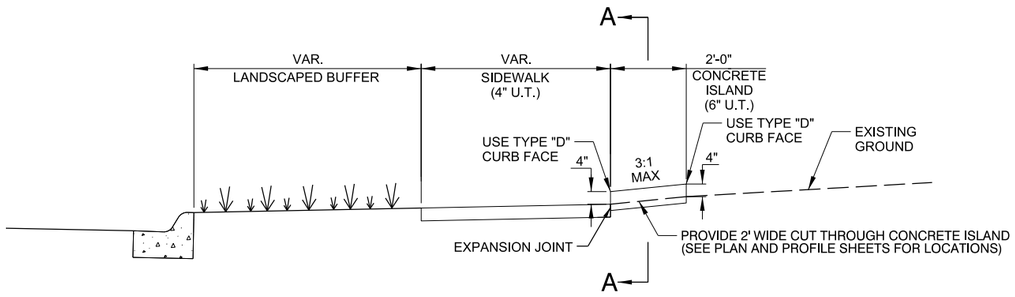
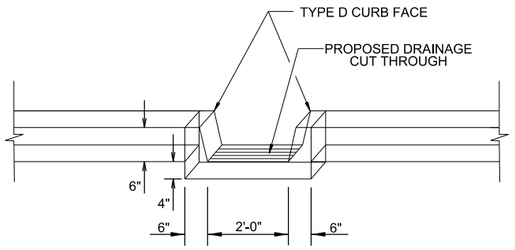
DRAWING NUMBER
C-213

SHEET
NUMBER 23

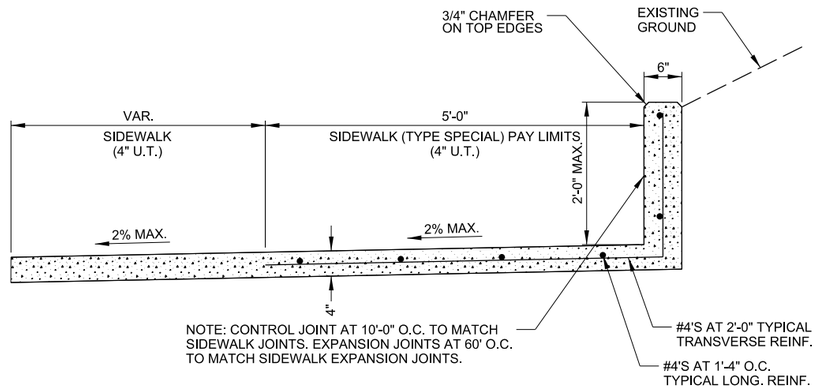




NOTE:

DRAINAGE CUT THROUGH ISLAND SHALL BE POURED MONOLITHICALLY.
ALL MATERIALS REQUIRED TO CONSTRUCT DRAINAGE CUT THROUGH ISLAND
SHALL BE INCLUDED IN THE PRICE BID FOR "CONCRETE ISLAND BEHIND WALK (6")"

SECTION A-A

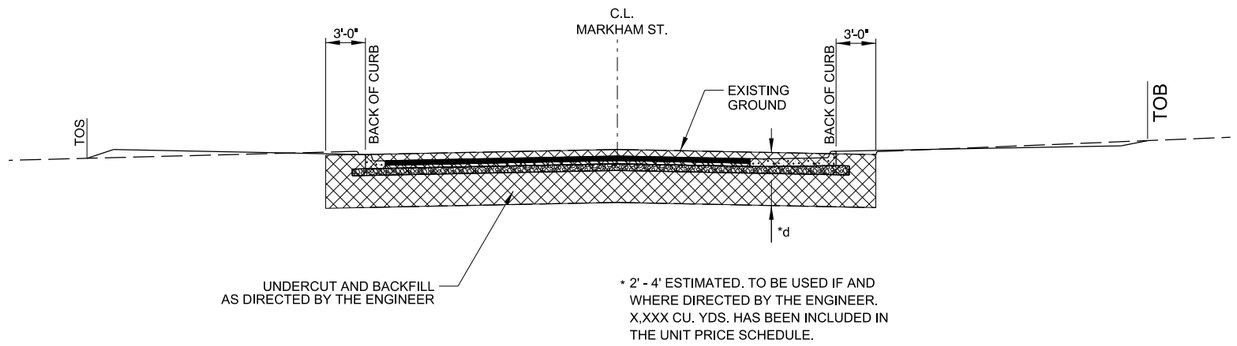


SIDEWALK (TYPE SPECIAL I) DETAIL

N.T.S.

CURBED ISLAND BEHIND WALK DETAIL

N.T.S.



* 2' - 4' ESTIMATED. TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER. X,XXX CU. YDS. HAS BEEN INCLUDED IN THE UNIT PRICE SCHEDULE.

UNDERCUT DETAIL

N.T.S.

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

MISCELLANEOUS
DETAILS
(SHEET 4 OF 8)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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ORIGINAL DRAWING
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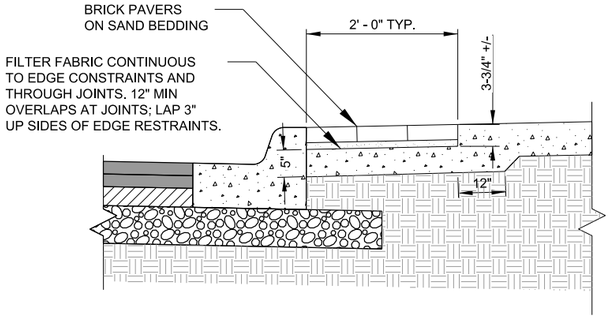
ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-214

SHEET
NUMBER **24**

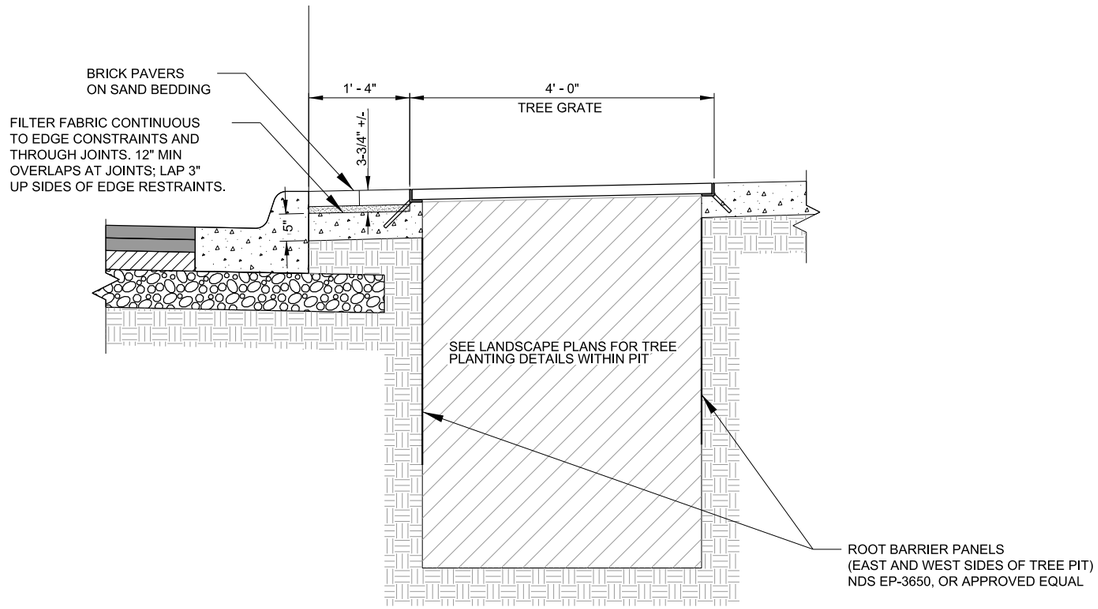


BRICK PAVER STEP-OUT ZONE DETAIL

N.T.S.

NOTES:

1. PAVERS TO BE SURROUNDED WITH 6" MIN. CONCRETE BAND FOR EDGE RESTRAINT NEAR PLANTING BEDS.
2. JOINT SAND SHALL BE POLYMERIC.
3. PAVER SHALL BE PINE HALL ENGLISH EDGE HEAVY DUTY RED (4"x8"x2-3/4") OR APPROVED EQUAL.
4. SAND BEDDING FOR PAVERS TO BE MAX. 1" TO MIN. 1/2" THICK MASONRY SAND.

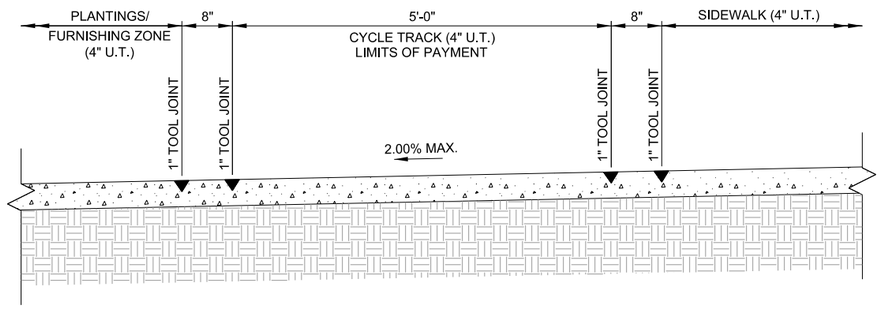


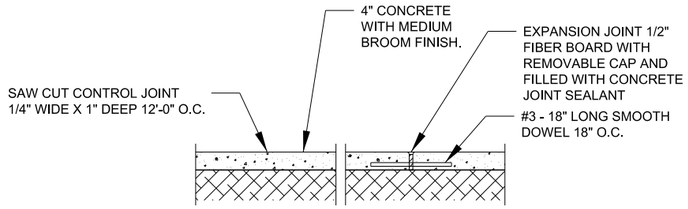
TREE GRATE DETAIL

N.T.S.

NOTES

1. TREE GRATES SHALL BE NEENAH BOULEVARD COLLECTION, R-8708, OR APPROVED EQUAL.
2. ROOT BARRIER PANELS SHALL BE NDS EP-3650 OR APPROVED EQUAL. PANELS SHALL BE PLACED ON TWO SIDES OF TREE PIT ADJACENT TO BACK OF CURB AND CYCLE TRACK.
3. TREE PIT EXCAVATION WITHIN TREE GRATES WILL NOT BE PAID FOR DIRECTLY BUT WILL BE INCLUDED IN THE UNIT PRICE OF "TREE GRATES".
4. SEE LANDSCAPE PLANS FOR TREE PLANTING DETAILS.





SECTION THROUGH JOINTS

N.T.S.

CONCRETE CYCLE TRACK CONSTRUCTION NOTES:

1. ALL WORK SHALL COMPLY WITH SECTIONS 303 & 633 OF THE ARKANSAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
2. FULL DEPTH EXPANSION JOINTS WITH DOWELS ARE REQUIRED AT THE END OF EACH DAYS POUR, ADJACENT TO ALL EXISTING CONCRETE, LOCATIONS ABUTING PROPOSED DRIVEWAYS, AND TRANSITIONS FROM CYCLE TRACK TO CONCRETE COMBINATION CURB AND GUTTER (TYPE A) (6'-6") AS SHOWN ON THE CYCLE TRACK TRANSITION DETAIL.
3. ONE-QUARTER DEPTH (ONE INCH) SAW-CUT JOINTS SHALL BE PLACED IN CONCRETE AT REGULAR INTERVALS MATCHING THE WIDTH, BUT NOT TO EXCEED 12 FEET APART. JOINTS SHALL BE PLACED 24 HOURS AFTER CONCRETE HAS BEEN FINISHED UNLESS APPROVED BY THE ENGINEER.
4. ALL EXPANSION JOINTS AND SAW JOINTS SHALL BE SEALED WITH JOINT SEALANT MEETING THE REQUIREMENTS SET FORTH IN THE ARKANSAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.

CONCRETE CYCLE TRACK DETAIL

N.T.S.

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

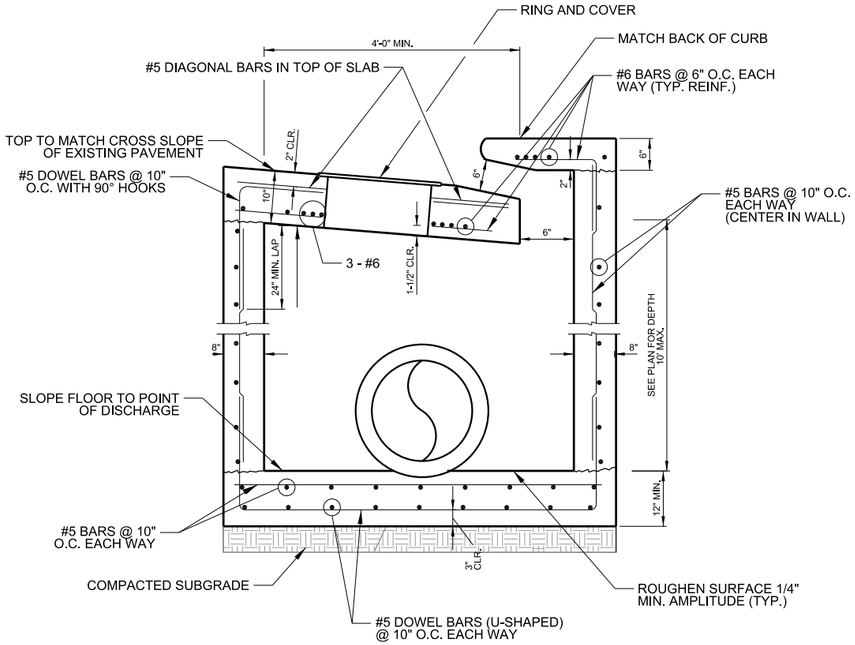
MISCELLANEOUS
DETAILS
(SHEET 5 OF 8)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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

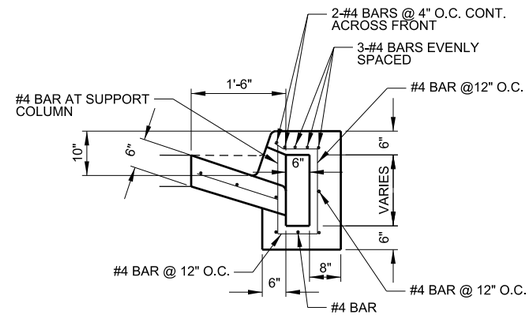
DRAWING NUMBER
C-215

SHEET
NUMBER **25**

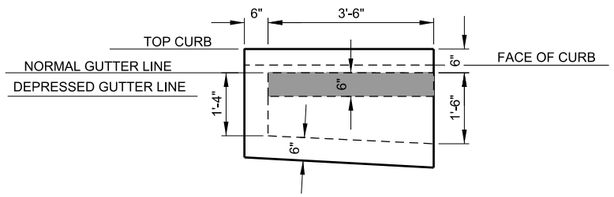


REVERSE THROAT CURB INLET

N.T.S.



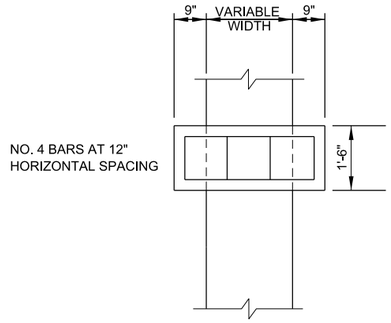
SECTION



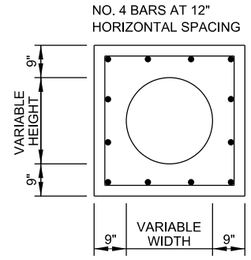
4'-0" EXTENSION

REVERSE THROAT EXTENSION DETAIL

N.T.S.



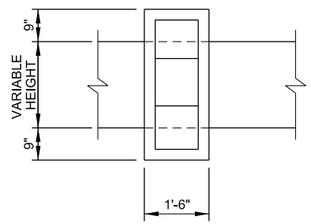
TOP VIEW



FRONT VIEW

MIN 3" COVER

NO. 4 BARS AT 12" VERTICAL SPACING



SIDE VIEW

PIPE EXTENSION REINFORCED CONCRETE COLLAR DETAIL

N.T.S.

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

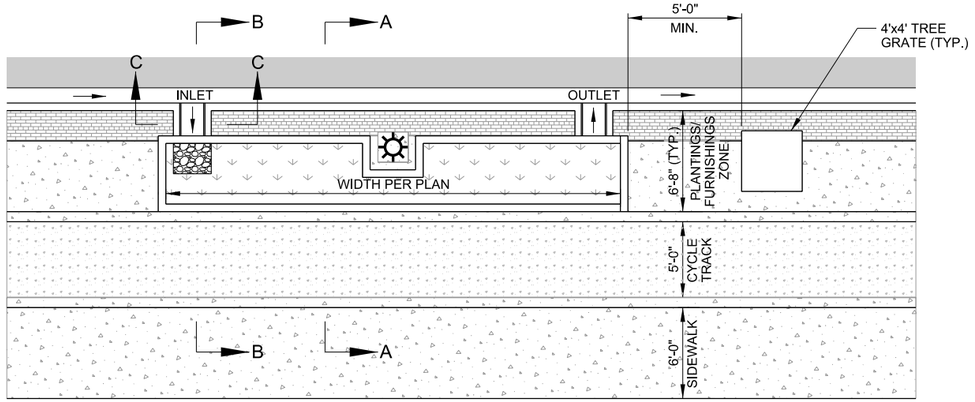
MISCELLANEOUS DETAILS
(SHEET 6 OF 8)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

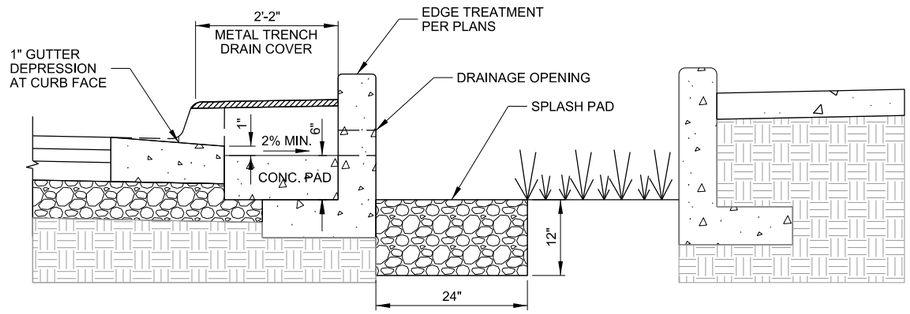
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-216

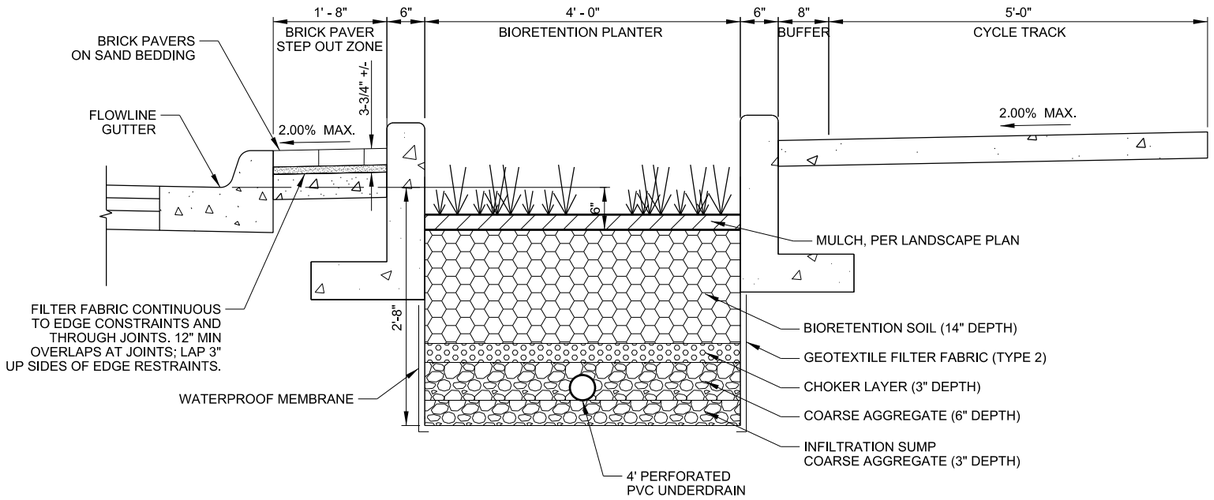
SHEET NUMBER **26**



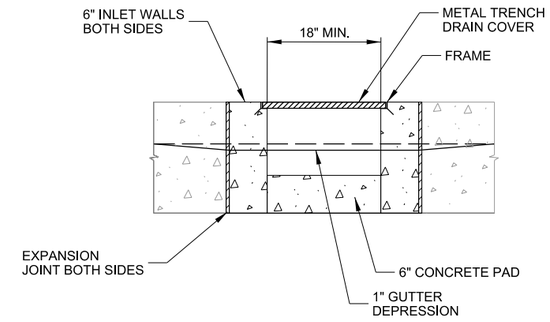
PLAN VIEW



SECTION B-B



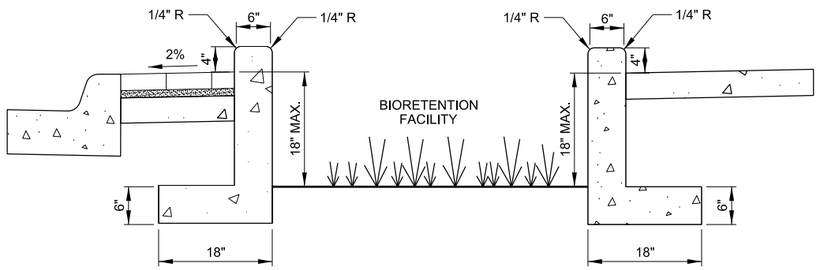
SECTION A-A



SECTION C-C

BIORETENTION PLANTER DETAIL

N.T.S.



L - WALL DETAIL

N.T.S.

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

MISCELLANEOUS
DETAILS
(SHEET 7 OF 8)

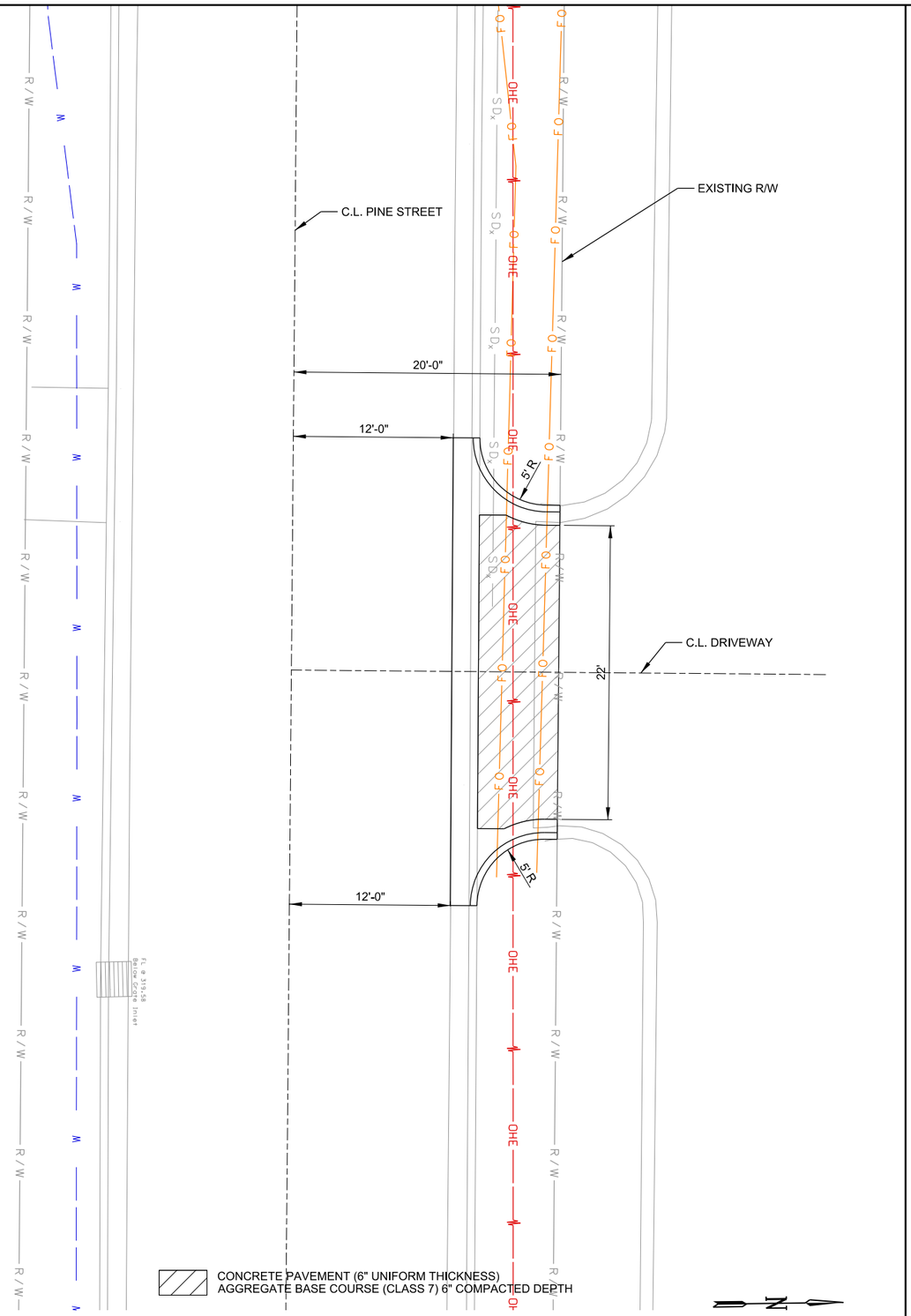
JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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

DRAWING NUMBER
C-217

SHEET
NUMBER **27**

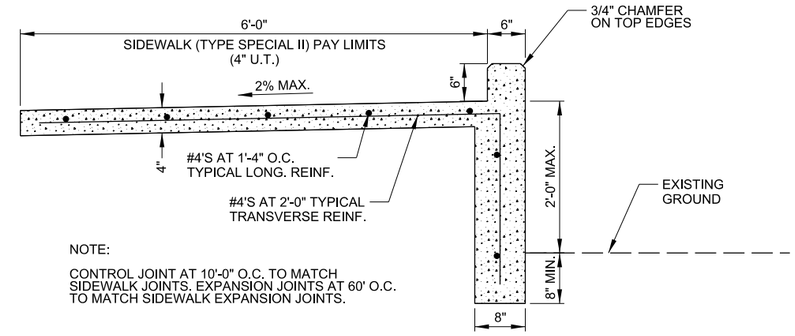
dtackett 3/8/2018 8:38:54 AM
W:\RKSPACE\Garver_2012
L:\2016\16017122 - Conway - Markham Street\Drawings\CMSH-C217-MD.dgn



CONCRETE PAVEMENT (6" UNIFORM THICKNESS)
AGGREGATE BASE COURSE (CLASS 7) 6" COMPACTED DEPTH

0' 2.5' 5' 10' 15'
(IN FEET)

PINE ST. DRIVEWAY DETAIL



NOTE:

CONTROL JOINT AT 10'-0" O.C. TO MATCH SIDEWALK JOINTS. EXPANSION JOINTS AT 60' O.C. TO MATCH SIDEWALK EXPANSION JOINTS.

SIDEWALK (TYPE SPECIAL II) DETAIL

N.T.S.

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

MISCELLANEOUS DETAILS
(SHEET 8 OF 8)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

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

DRAWING NUMBER
C-218

SHEET NUMBER **28**

dtackett 3/8/2018 8:39:10 AM
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EROSION CONTROL NOTES

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

SEQUENCE OF CONSTRUCTION OF E & SC FEATURES

1. INSTALL SILT FENCE / WATTLES.
2. CLEAR / GRUB ACTIVITIES.
3. INSTALL DITCH CHECKS.

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

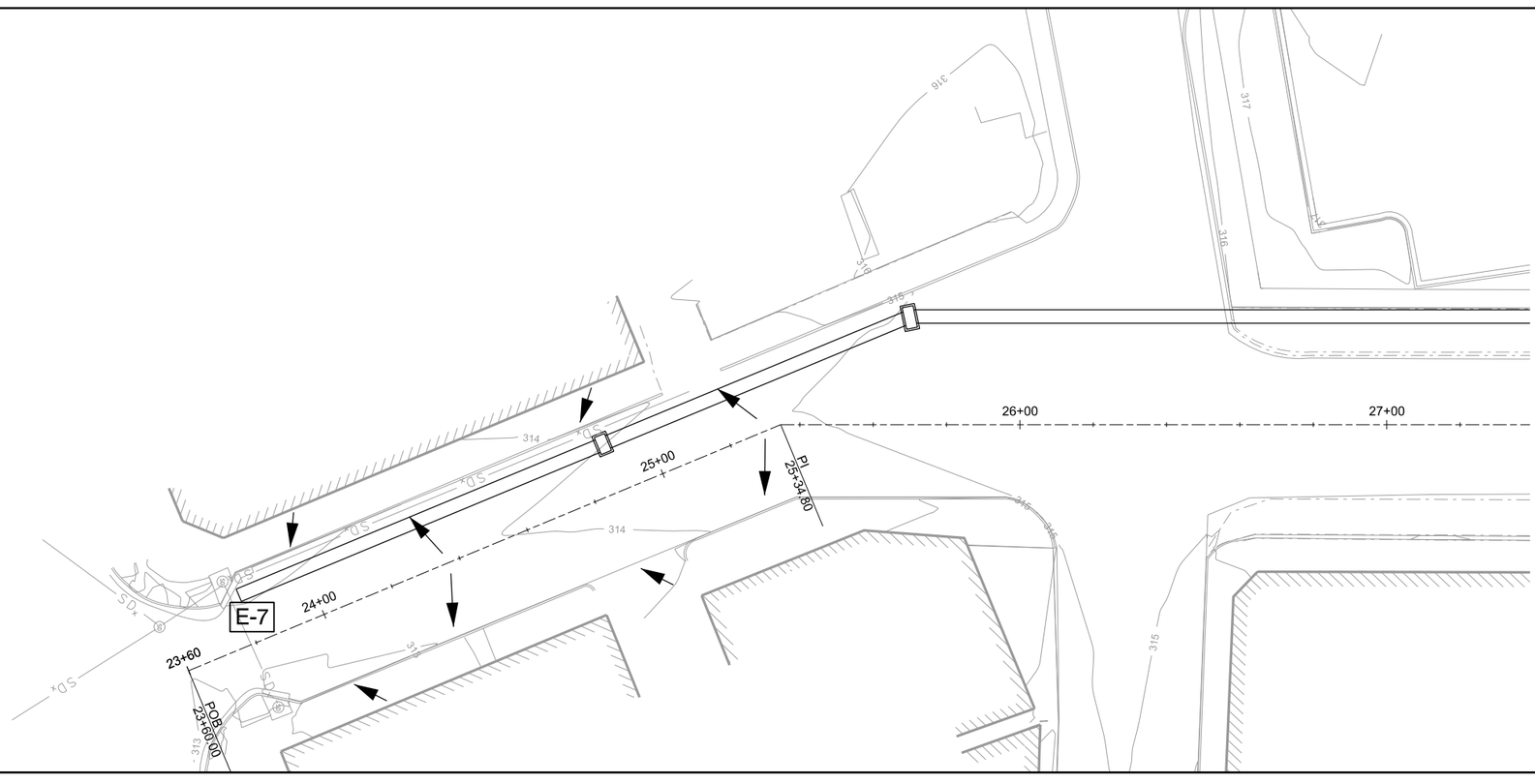
LEGEND

285	EXISTING CONTOUR
	DRAINAGE FLOW DIRECTION
SILT	SILT FENCE
	DISTURBED AREA BOUNDARY
TOB	TOP OF BANK
TOS	TOE OF SLOPE
E-6	ROCK DITCH CHECK
E-7	DROP INLET SILT FENCE

DISTURBED AREA = 4.53 ACRES

REVISION BOX

DATE OF REVISION	REVISION



FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

TEMPORARY EROSION CONTROL PLAN
STAGE 1

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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

DRAWING NUMBER
C-301

SHEET NUMBER **29**

dtackett 3/8/2018 8:39:12 AM
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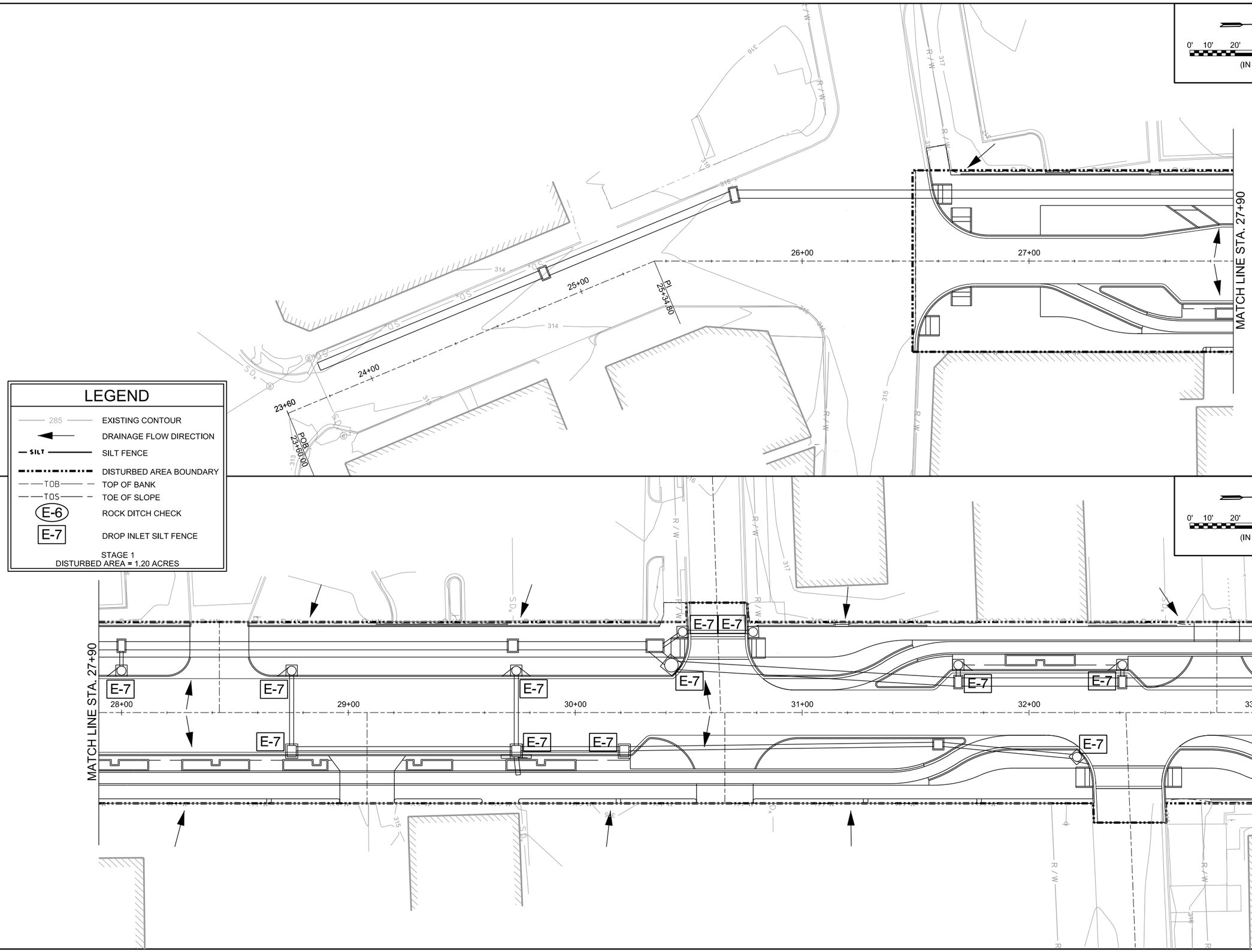


LEGEND

285	EXISTING CONTOUR
	DRAINAGE FLOW DIRECTION
SILT	SILT FENCE
	DISTURBED AREA BOUNDARY
TOB	TOP OF BANK
TOS	TOE OF SLOPE
E-6	ROCK DITCH CHECK
E-7	DROP INLET SILT FENCE

STAGE 1
DISTURBED AREA = 1.20 ACRES

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

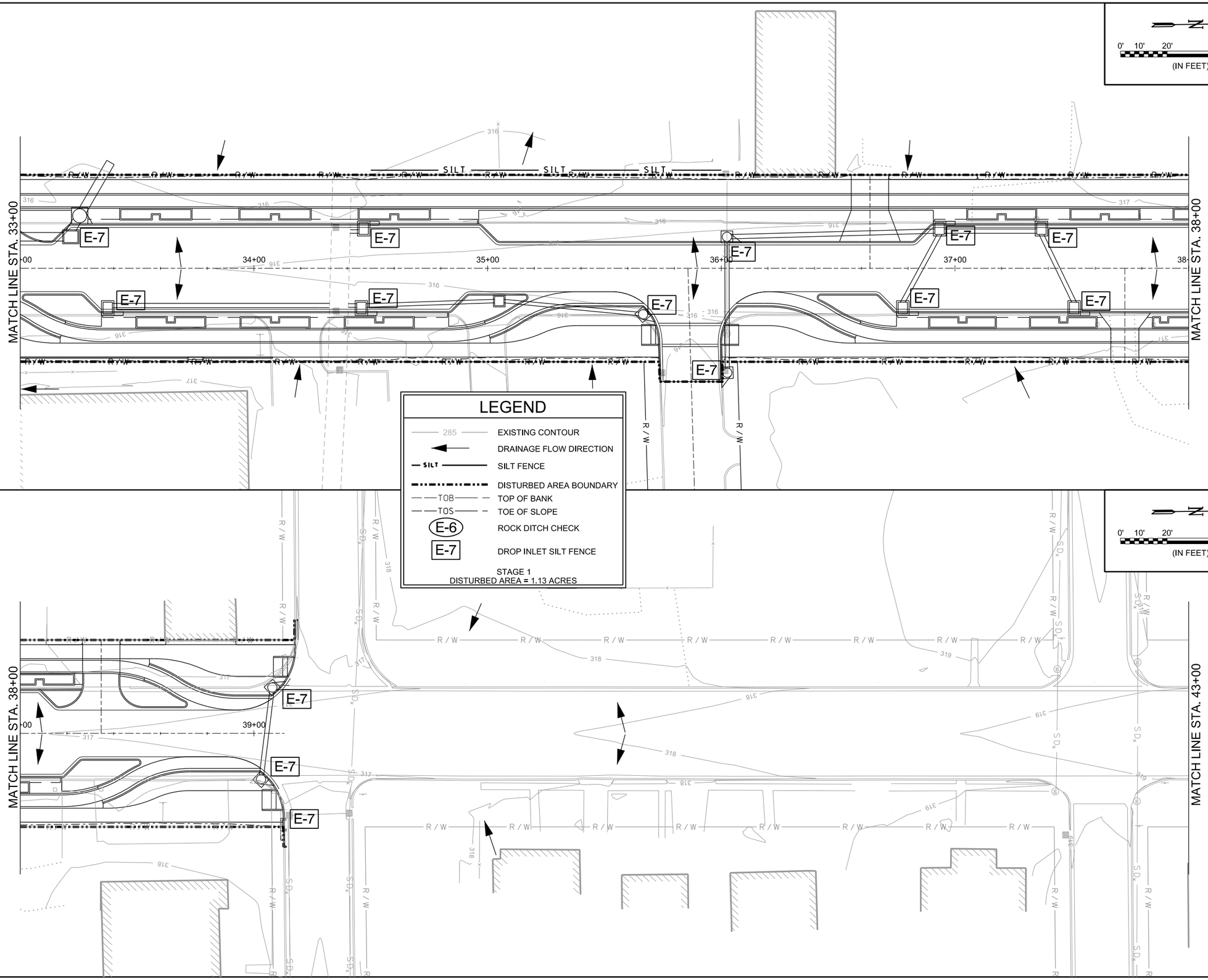
TEMPORARY EROSION CONTROL PLAN - STAGE 2
(SHEET 1 OF 2)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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

DRAWING NUMBER
C-302

SHEET NUMBER **30**



FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

TEMPORARY EROSION CONTROL PLAN - STAGE 2
(SHEET 2 OF 2)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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

DRAWING NUMBER
C-303

SHEET NUMBER **31**

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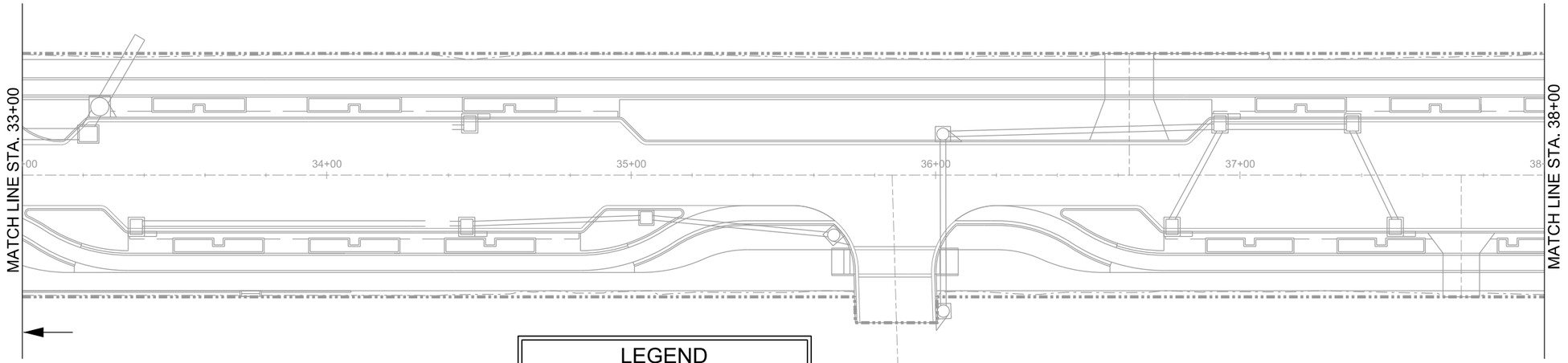
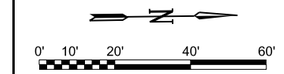
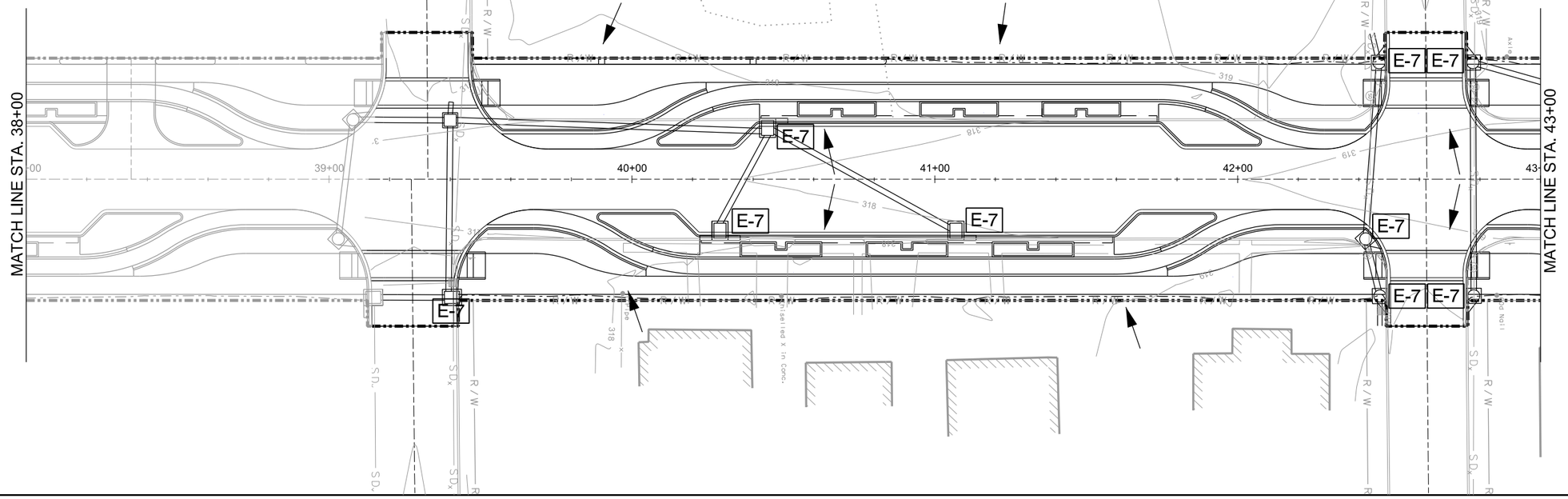


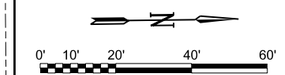


LEGEND

285	EXISTING CONTOUR
	DRAINAGE FLOW DIRECTION
SILT	SILT FENCE
	DISTURBED AREA BOUNDARY
TOB	TOP OF BANK
TOS	TOE OF SLOPE
E-6	ROCK DITCH CHECK
E-7	DROP INLET SILT FENCE

STAGE 2
DISTURBED AREA = 0.70 ACRES





FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

TEMPORARY EROSION CONTROL PLAN - STAGE 3
(SHEET 1 OF 2)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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

DRAWING NUMBER
C-304

SHEET NUMBER **32**

dtackett 3/8/2018 8:39:22 AM
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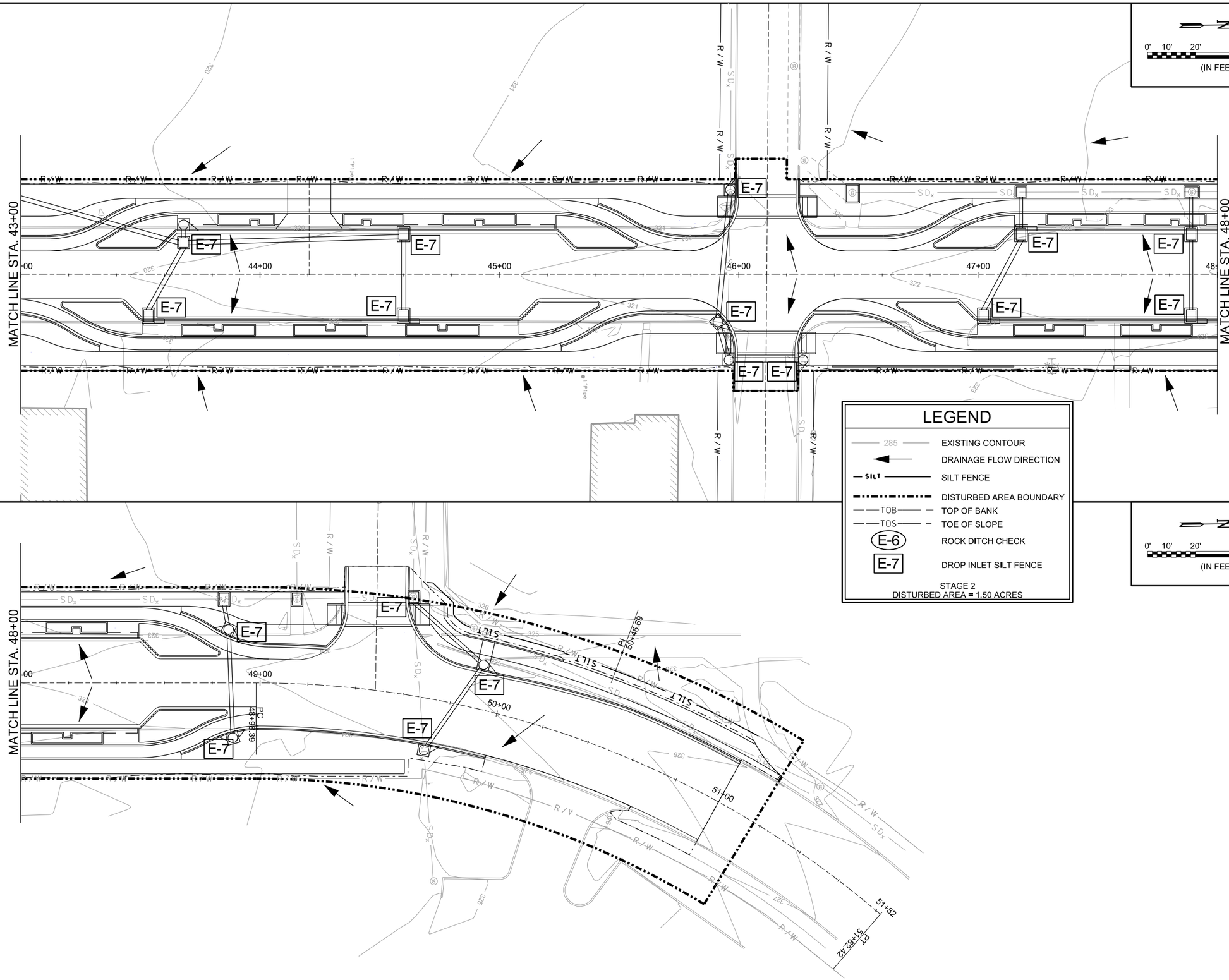

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

TEMPORARY EROSION CONTROL PLAN - STAGE 3
(SHEET 2 OF 2)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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

DRAWING NUMBER
C-305

SHEET NUMBER 33

dfackett 3/8/2018 8:39:24 AM
WORKSPACE:Ganer_2012
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GENERAL NOTES:

1. THE MAINTENANCE OF TRAFFIC AS SHOWN IN THE PLANS IS PROVIDED TO THE CONTRACTOR AS MINIMUM CONTROLS AND AS GUIDANCE. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER AND OWNER FOR APPROVAL A DETAILED MAINTENANCE OF TRAFFIC PLAN IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO START OF CONSTRUCTION.
2. ALL EXISTING SIGNS NEEDED TO MAINTAIN TRAFFIC SHALL REMAIN IN PLACE AND IN CLEAR SIGHT UNLESS OTHERWISE NOTED.
3. TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT AS SHOWN.
4. CONTRACTOR SHALL MAINTAIN ALL ACCESS TO ALL LOCAL BUSINESSES AND RESIDENTS.
5. ALL TRAFFIC CONTROL DEVICES USED ON ROAD CONSTRUCTION SHALL CONFORM TO AND BE PLACED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
6. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY DRAINAGE AS REQUIRED.

STAGE 1 CONSTRUCTION SEQUENCE

1. MAINTAIN EXISTING NORTHBOUND TRAFFIC ON MARKHAM ST.
2. PLACE LANE CLOSURE AND DETOUR DEVICES FOR EXISTING SOUTBOUND TRAFFIC ON MARKHAM ST. BETWEEN OAK ST. AND SMITH ST.
3. CONSTRUCT DRAINAGE IMPROVEMENTS ALONG CHESTNUT ST. AND CROSSING VAN RONKLE ST.

N

0' 25' 50' 100' 150'

(IN FEET)

LEGEND

STAGE 1 CONSTRUCTION

TEMPORARY SIGN AND POST

TRAFFIC DRUM

DIRECTION OF TRAFFIC

SPENCER ST.

VAN RONKLE ST.

SMITH ST.

MARKHAM ST.

CHESTNUT ST.

VAN RONKLE ST.

GARLAND ST.

HARRISON ST.

(8') BARR. TYP. III RT.

(1)R11-4 (60" X 30") ROAD CLOSED TO THRU TRAFFIC

(8') BARR. TYP. III LT.

(8') BARR. TYP. III LT.

(8') BARR. TYP. III RT.

R11-2 (48" X 30") ROAD CLOSED

(48" X 30") ROAD CLOSED R11-2

(1)M4-10 (48" X 18") DETOUR

(8') BARR. TYP. III LT.

(8') BARR. TYP. III RT.

R11-2 (48" X 30") ROAD CLOSED

(1)M4-10 (48" X 18") DETOUR

(8') BARR. TYP. III RT.

(8') BARR. TYP. III LT.

(1) W20-2 (36" X 36") DETOUR AHEAD

(1) W20-1 (36" X 36") ROAD CLOSED AHEAD

28 TRAFFIC DRUMS @ 25' O.C.

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS. (CONWAY) (S)

MAINTENANCE OF TRAFFIC PLAN - STAGE 1

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

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

DRAWING NUMBER
C-401

SHEET NUMBER **34**

dltackett 3/8/2018 8:39:47 AM
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STAGE 2 CONSTRUCTION SEQUENCE

1. PLACE LANE CLOSURE AND DETOUR DEVICES FOR EXISTING TRAFFIC ON MARKHAM ST. BETWEEN VAN RONKLE ST. AND MILL ST.
2. CONSTRUCT MARKHAM ST. IMPROVEMENTS FROM VAN RONKLE ST. TO MILL ST. WHILE MAINTAINING ACCESS FOR LOCAL BUSINESS AND RESIDENTIAL TRAFFIC.

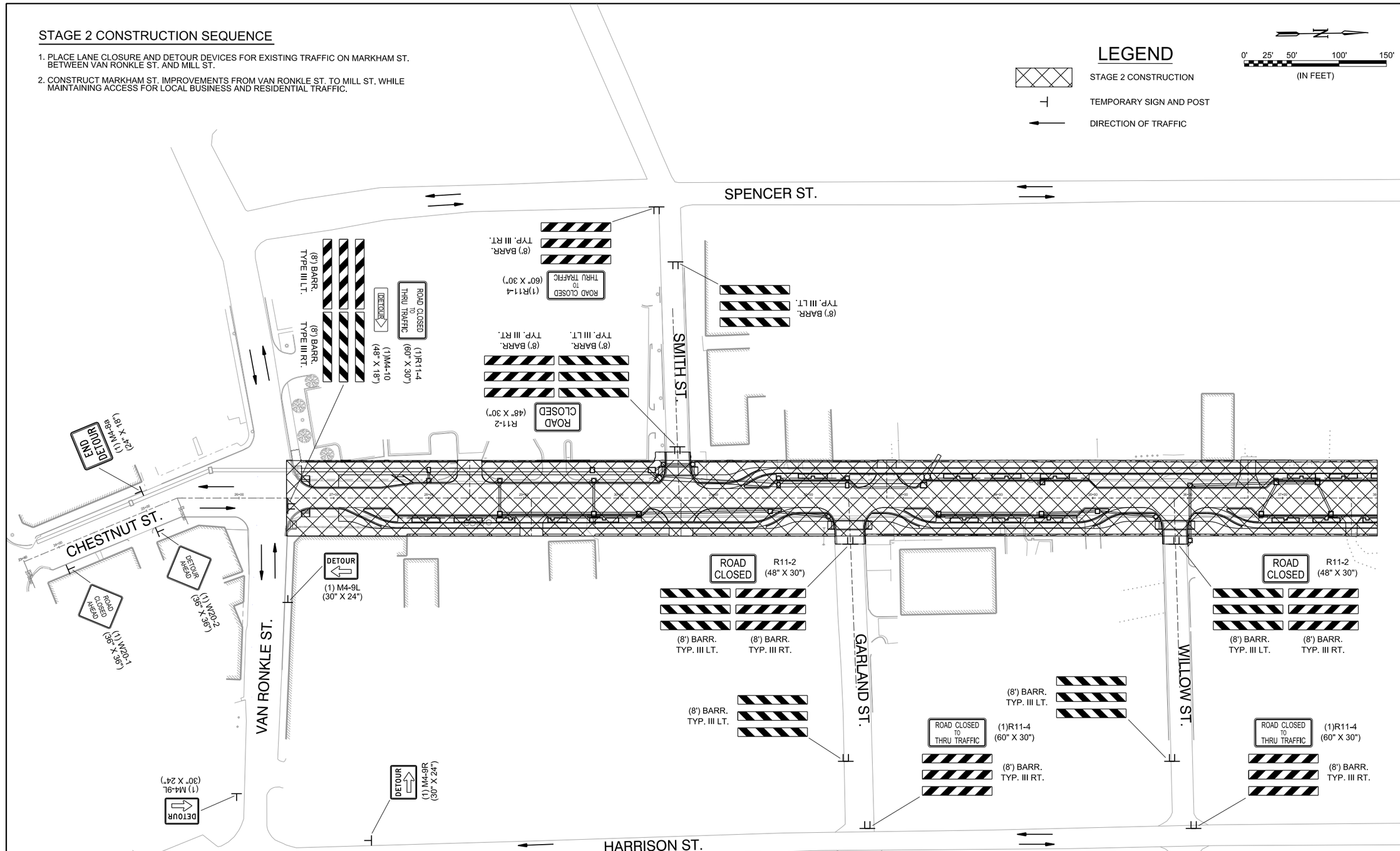
LEGEND

STAGE 2 CONSTRUCTION

TEMPORARY SIGN AND POST

DIRECTION OF TRAFFIC

0' 25' 50' 100' 150'
(IN FEET)



GENERAL NOTES:

1. THE MAINTENANCE OF TRAFFIC AS SHOWN IN THE PLANS IS PROVIDED TO THE CONTRACTOR AS MINIMUM CONTROLS AND AS GUIDANCE. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER AND OWNER FOR APPROVAL A DETAILED MAINTENANCE OF TRAFFIC PLAN IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO START OF CONSTRUCTION.
2. ALL EXISTING SIGNS NEEDED TO MAINTAIN TRAFFIC SHALL REMAIN IN PLACE AND IN CLEAR SIGHT UNLESS OTHERWISE NOTED.
3. TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT AS SHOWN.
4. CONTRACTOR SHALL MAINTAIN ALL ACCESS TO ALL LOCAL BUSINESSES AND RESIDENTS.
5. ALL TRAFFIC CONTROL DEVICES USED ON ROAD CONSTRUCTION SHALL CONFORM TO AND BE PLACED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
6. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY DRAINAGE AS REQUIRED.

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

MAINTENANCE OF TRAFFIC PLAN - STAGE 2
(SHEET 1 OF 2)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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

DRAWING NUMBER
C-402

SHEET NUMBER **35**

dtackett 3/8/2018 8:39:56 AM
WORKSPACE:Garver_2012 - Conway - Markham Street\Drawings\CMSH-C402-MOT.dgn
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LEGEND

STAGE 2 CONSTRUCTION

TEMPORARY SIGN AND POST

DIRECTION OF TRAFFIC

N

0' 25' 50' 100' 150'

(IN FEET)

SPENCER ST.

MILL ST.

WALNUT ST.

PINE ST.

SPRUCE ST.

MARKHAM ST.

HARRISON ST.

38+00 39+00 40+00 41+00 42+00 43+00 44+00 45+00 46+00 47+00 48+00 49+00 50+00 51+00 51+82

PC 48+96.36

R 50+46.89

PT 51+82.42

(1)R11-4 (60" X 30") ROAD CLOSED TO THRU TRAFFIC

(1)M4-10L (48" X 18") DETOUR

(8') BARR. TYPE III RT.

(1) W20-2 (36" X 36") DETOUR AHEAD

(1) W20-1 (36" X 36") ROAD CLOSED AHEAD

(8') BARR. TYP. III LT.

DETOUR (1) M4-9R (30" X 24")

(1) M4-8a (24" X 18") END DETOUR

DETOUR (1) M4-9R (30" X 24")

DETOUR (1) M4-9L (30" X 24")

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

MAINTENANCE OF TRAFFIC PLAN - STAGE 2
(SHEET 2 OF 2)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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DRAWING NUMBER
C-403

SHEET NUMBER **36**

dlttackett 3/8/2018 8:40:01 AM
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STAGE 3 CONSTRUCTION SEQUENCE

1. PLACE LANE CLOSURE AND DETOUR DEVICES FOR EXISTING TRAFFIC ON MARKHAM ST. BETWEEN MILL ST. AND HARKRIDER ST. (HWY 65B).
2. CONSTRUCT MARKHAM ST. IMPROVEMENTS FROM MILL ST. TO HARKRIDER ST. (HWY 65B) WHILE MAINTAINING ACCESS FOR LOCAL BUSINESS AND RESIDENTIAL TRAFFIC.

LEGEND

STAGE 2 CONSTRUCTION

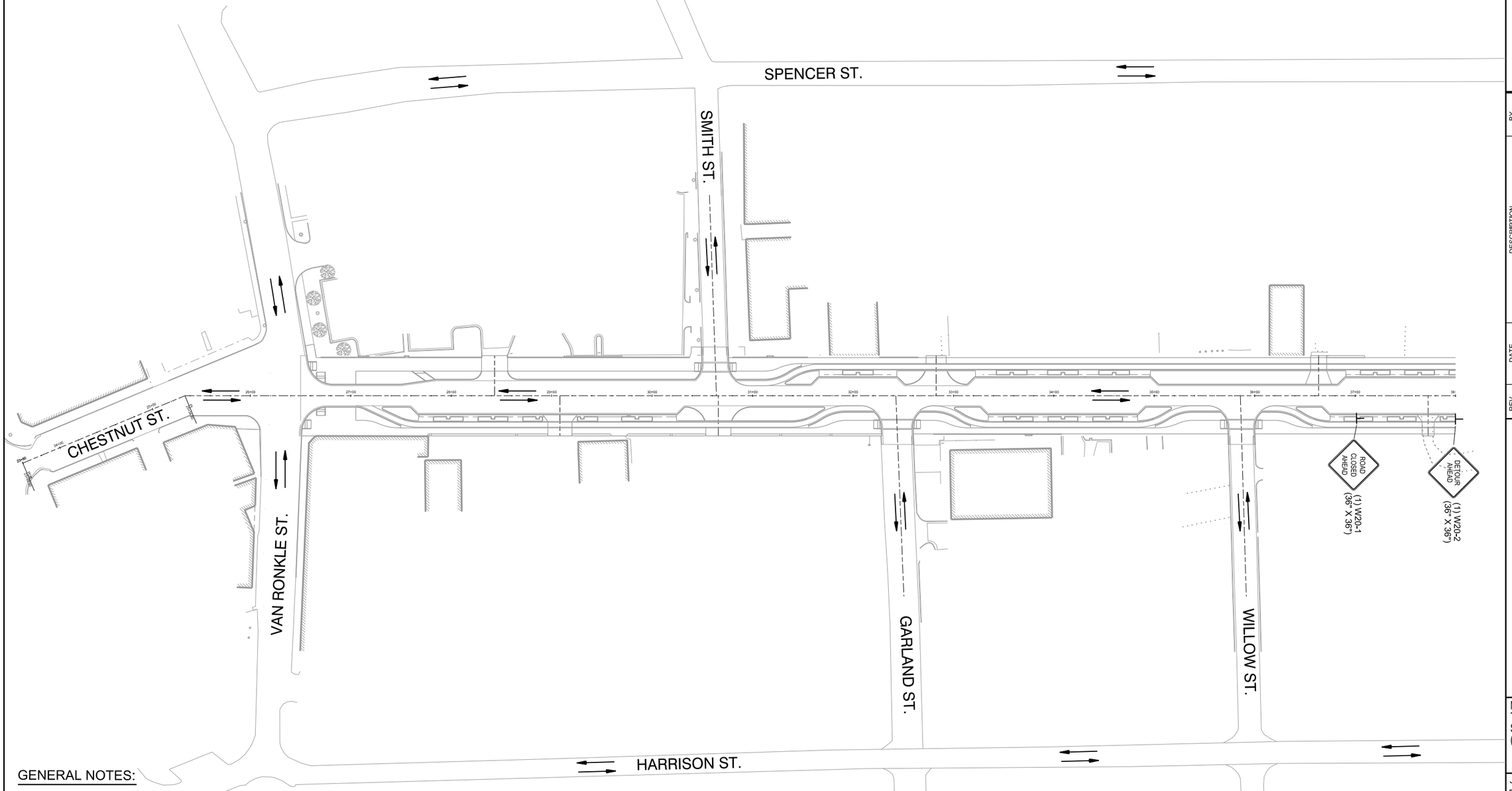
TEMPORARY SIGN AND POST

DIRECTION OF TRAFFIC

N

0' 25' 50' 100' 150'

(IN FEET)



GENERAL NOTES:

1. THE MAINTENANCE OF TRAFFIC AS SHOWN IN THE PLANS IS PROVIDED TO THE CONTRACTOR AS MINIMUM CONTROLS AND AS GUIDANCE. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER AND OWNER FOR APPROVAL A DETAILED MAINTENANCE OF TRAFFIC PLAN IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO START OF CONSTRUCTION.
2. ALL EXISTING SIGNS NEEDED TO MAINTAIN TRAFFIC SHALL REMAIN IN PLACE AND IN CLEAR SIGHT UNLESS OTHERWISE NOTED.
3. TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT AS SHOWN.
4. CONTRACTOR SHALL MAINTAIN ALL ACCESS TO ALL LOCAL BUSINESSES AND RESIDENTS.
5. ALL TRAFFIC CONTROL DEVICES USED ON ROAD CONSTRUCTION SHALL CONFORM TO AND BE PLACED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
6. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY DRAINAGE AS REQUIRED.

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

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LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

MAINTENANCE OF TRAFFIC PLAN - STAGE 3
(SHEET 1 OF 2)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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C-404

SHEET NUMBER **37**

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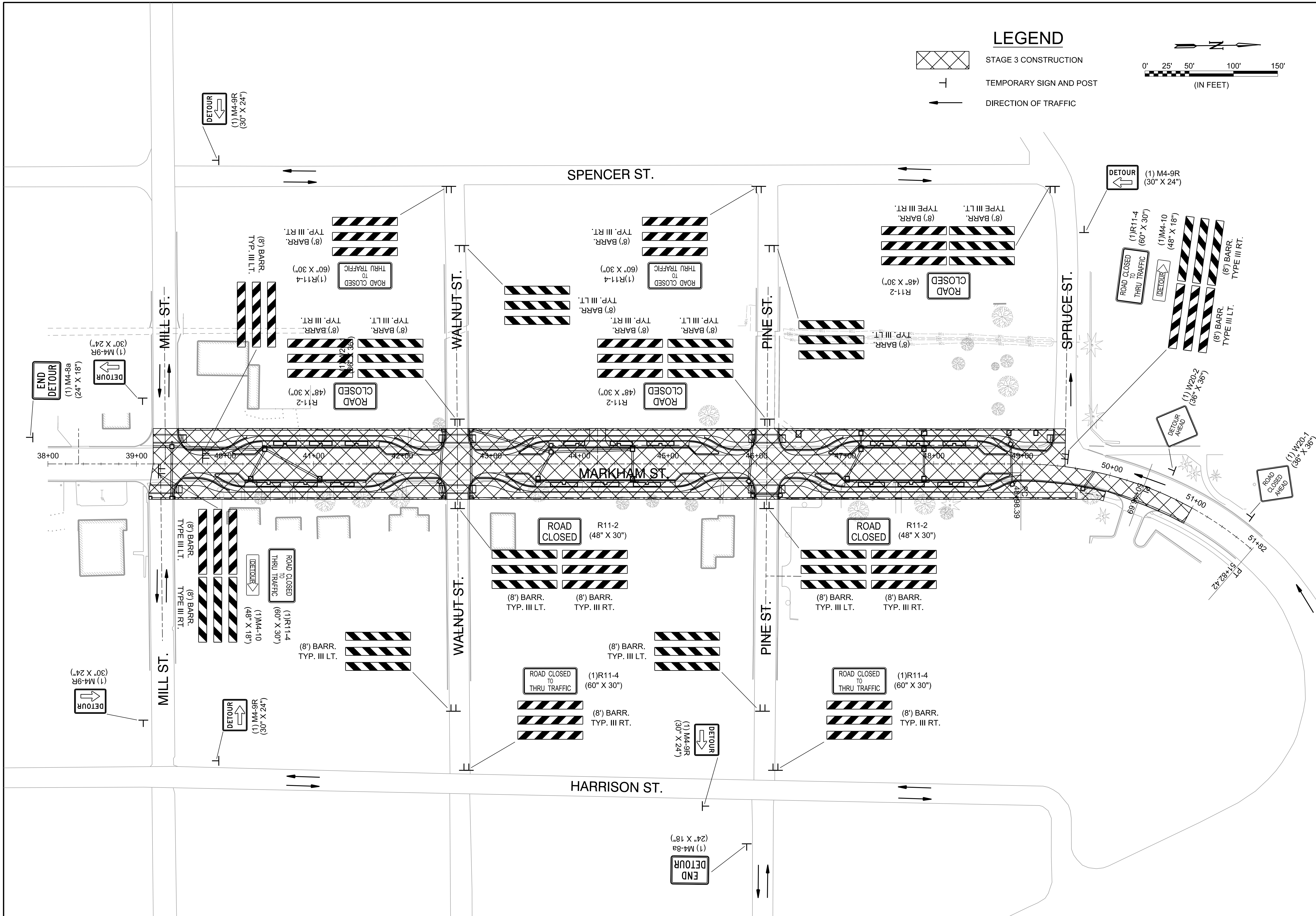

FINAL PLANS NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS. (CONWAY) (S)

MAINTENANCE OF TRAFFIC PLAN - STAGE 3 (SHEET 2 OF 2)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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DRAWING NUMBER
C-405

SHEET NUMBER **38**

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WORKSPACE:Garver_2012
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LEGEND

- STAGE 4 CONSTRUCTION
- TEMPORARY SIGN AND POST
- TRAFFIC DRUM
- DIRECTION OF TRAFFIC

N

0' 25' 50' 100' 150'

(IN FEET)

SPENCER ST.

WALNUT ST.

PINE ST.

SPRUCE ST.

(8') BARR. TYPE III LT.

(8') BARR. TYPE III RT.

ROAD CLOSED (48" X 30")

R11-2

(1) W1-4aR (36" X 36")

41+00 42+00 43+00 44+00 45+00 46+00 47+00 48+00 49+00 50+00 51+00 51+82

MARKHAM ST.

PC 48+98.39

PT 51+82.42

(8') BARR. TYPE III LT.

(8') BARR. TYPE III RT.

ROAD CLOSED (48" X 30")

DETOUR

R11-2

(1) M4-10 (48" X 18")

(1) W1-4aL (36" X 36")

(1) W20-1 (36" X 36")

ROAD WORK AHEAD

HARRISON ST.

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS. (CONWAY) (S)

MAINTENANCE OF TRAFFIC PLAN - STAGE 4

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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DRAWING NUMBER
C-406

SHEET NUMBER **39**

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WORKSPACE:Garner_2012
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SURVEY CONTROL POINTS						
POINT No.	NORTHING	EASTING	STATION	OFFSET	ELEVATION	DESCRIPTION
1	278648.7543	1180804.5440	49+37.96	32.95' RT.	324.382	ALUM MON
2	278311.3588	1180716.3212	45+95.23	45.40' LT.	321.284	ALUM MON
3	277994.1745	1180718.8025	42+78.20	35.34' LT.	318.851	ALUM MON
4	277601.0704	1180768.7705	38+86.40	24.01' RT.	316.894	ALUM MON
5	278179.7390	1180782.7687	44+65.24	24.18' RT.	320.661	60D NAIL
6	277281.4684	1180765.5827	35+66.81	28.46' RT.	316.323	ALUM MON
7	276961.9434	1180706.2449	32+45.96	23.22' LT.	315.577	ALUM MON
8	276749.9097	1180699.8631	30+33.83	24.54' LT.	315.434	ALUM MON
9	276382.4461	1180678.4300	26+65.96	37.18' LT.	316.457	ALUM MON
10	276923.3318	1180753.3805	32+08.49	24.82' RT.	315.591	60D NAIL
100	279056.7880	1181770.3510	N/A	N/A	330.242	GPS
101	278270.5040	1180411.5370	45+47.10	349.12' LT.	323.040	PCK 101
102	278251.1531	1179853.4530	45+14.42	906.58' LT.	337.230	PCK 102
106	279055.4410	1181465.6650	N/A	N/A	337.111	PCK 106
900	276255.6330	1180490.2220	N/A	N/A	315.144	CHISELED SQUARE

MARKHAM STREET COORDINATES			
STATION	TYPE	NORTHING	EASTING
23+60.00	POB	276087.4659	1180775.6928
25+34.80	PI	276250.4317	1180712.4694
48+98.39	PC	278613.3422	1180768.9476
50+46.69	PI	278761.6014	1180772.4913
51+82.42	PT	278871.7171	1180871.8285

COORDINATES FOR ALL POINTS ARE GRID

HORIZONTAL DATUM: NAD 83 (1997) HARN
VERTICAL DATUM: NAVD 88

CONTROL POINT 100 = CAGIS CONTROL POINT 1004
CONTROL POINT 101 = CAGIS CONTROL POINT 1004-01

ELEVATIONS ARE BASED OFF OF CONTROL POINT 101

BASIS OF BEARINGS:
ARKANSAS STATE PLANE GRID BEARINGS - ZONE 0301 - ARKANSAS NORTH ZONE
DETERMINED FROM CAGIS CONTROL POINTS 1004 AND 1004-01
CONVERGENCE ANGLE: 00°15'14.34" LEFT AT CAGIS CONTROL POINT 1004
GRID AZIMUTH = ASTRONOMICAL AZIMUTH - CONVERGENCE ANGLE

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

SURVEY CONTROL DETAILS
(SHEET 1 OF 2)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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DRAWING NUMBER
C-501

SHEET NUMBER **40**

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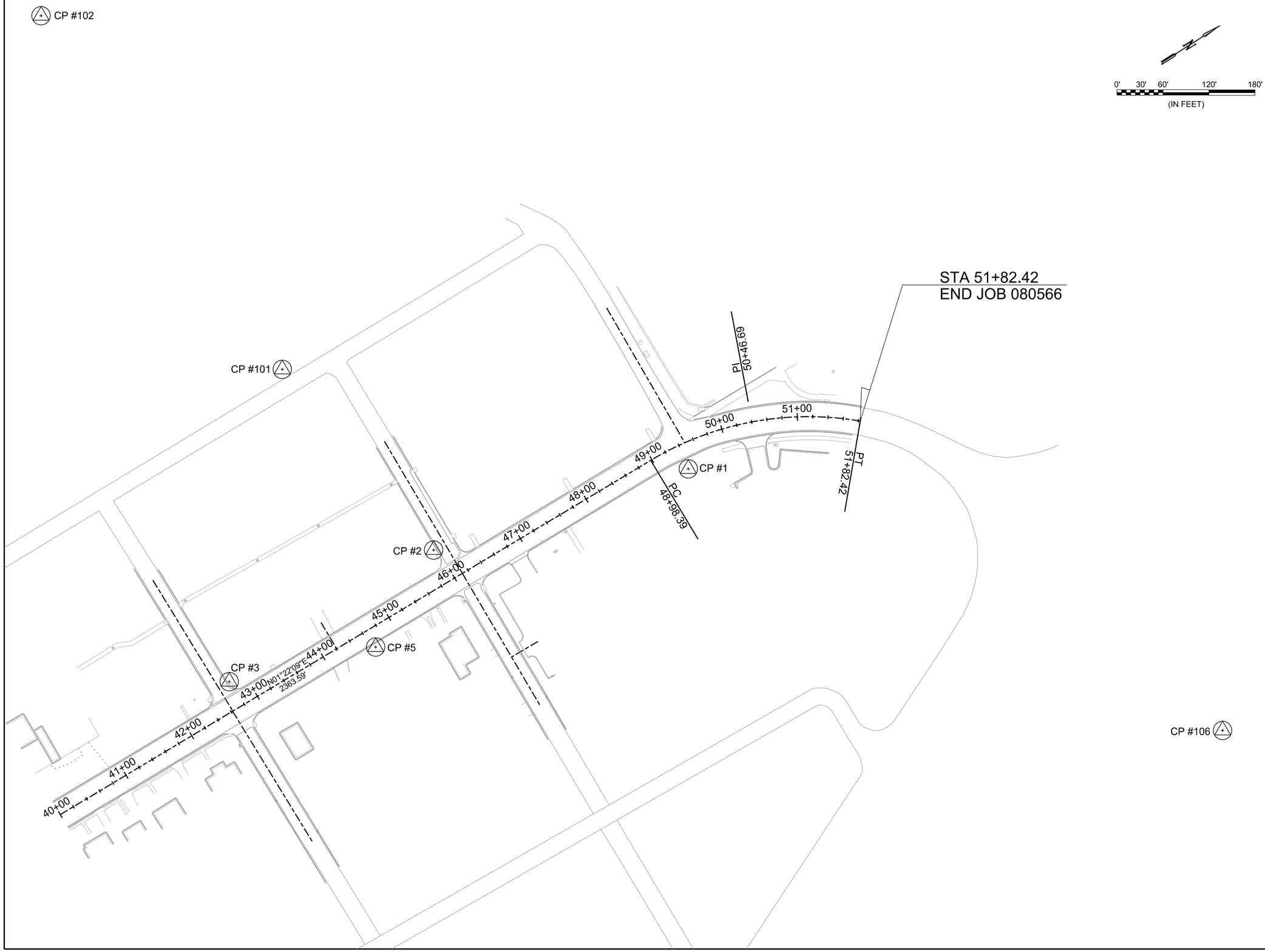

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

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METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

SURVEY CONTROL
DETAILS
(SHEET 2 OF 2)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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0 1"
IF NOT ONE INCH ON THIS SHEET,
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DRAWING NUMBER
C-502

SHEET
NUMBER **41**

dflackett 3/8/2018 8:40:19 AM
WORKSPACE:Garver_2012 - Conway
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RAMPS		
LOCATION	TYPE	AREA (SQ. YD.)
26+54 RT.	ACCESS	7.68
26+60 LT.	ACCESS	7.40
26+70 LT.	ACCESS	8.58
26+70 RT.	ACCESS	7.24
27+77 LT.	BIKE	7.16

CONCRETE ISLAND BEHIND WALK			
STATION	STATION	SIDE	AREA (SQ. YD.)
27+76.59	28+96.26	RT.	26.52

SIDEWALK (TYPE SPECIAL I)			
STATION	STATION	SIDE	AREA (SQ. YD.)
26+70.00	27+53.00	LT.	46.11
27+58.00	28+30.14	LT.	40.08

TREE GRATES	
STATION	OFFSET
27+74.78	22.33' RT.

DRAINAGE CUT THROUGH ISLAND		
LOCATION	SIDE	WIDTH
27+79.00	RT.	2'-0"

CALL BEFORE YOU DIG! ARKANSAS ONE CALL 1-800-482-8998 OR 811

SEE GENERAL NOTE 1, DRAWING G-002 OF THESE PLANS.

STA 23+60.00
BEGIN JOB 080566

STA. 23+60.00
N = 276087.4659
E = 1180775.6928

POB 23+60.00

OAK ST.

CHESTNUT ST.

VAN RONKLE ST.

VAN RONKLE ST.

24+00

25+00

26+00

27+00 MARKHAM ST.

N21°12'15"W
174.80'

PI 25+34.80

N01°22'09"E
2363.59'

FUTURE CONSTRUCTION BY CITY OF CONWAY (TYP.)

CONSTRUCT CONCRETE COMBINATION CURB AND GUTTER TYPE A (1'-6")

CONSTRUCTION LIMITS

C.L. CONSTRUCTION

EXISTING R/W

27+07.44

27+17.88

35' TAPER

MATCH LINE STA. 28+00

EXISTING R/W

FUTURE CONSTRUCTION BY CITY OF CONWAY (TYP.)

5' CYCLE TRACK

6' SIDEWALK

CONCRETE ISLAND

CONSTRUCTION LIMITS

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

90.00' VC
G1 = -1.00%
G2 = -0.30%
K = 128.57
e=0.08'

PVI 26+50.00
ELEV. 315.78

PVC 27+05.00
ELEV.315.23

PVT 27+95.00
ELEV.314.65

PVI 27+50.00
ELEV. 314.78

-1.00%

PROFILE GRADE

EXISTING GRADE AT C.L. CONSTRUCTION

	EXISTING	PROPOSED
	EL.313.49	
	EL.314.48	
	EL.315.63	
	EL.315.83	**EL.315.28**
	EL.315.42	**EL.314.63**

FINAL PLANS
NOT FOR CONSTRUCTION

BY	DESCRIPTION	DATE	REV.

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METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS. (CONWAY) (S)

PLAN AND PROFILE - MARKHAM ST. (SHEET 1 OF 6)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

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DRAWING NUMBER
C-601

SHEET NUMBER **42**

dtackett 3/8/2018 8:40:26 AM
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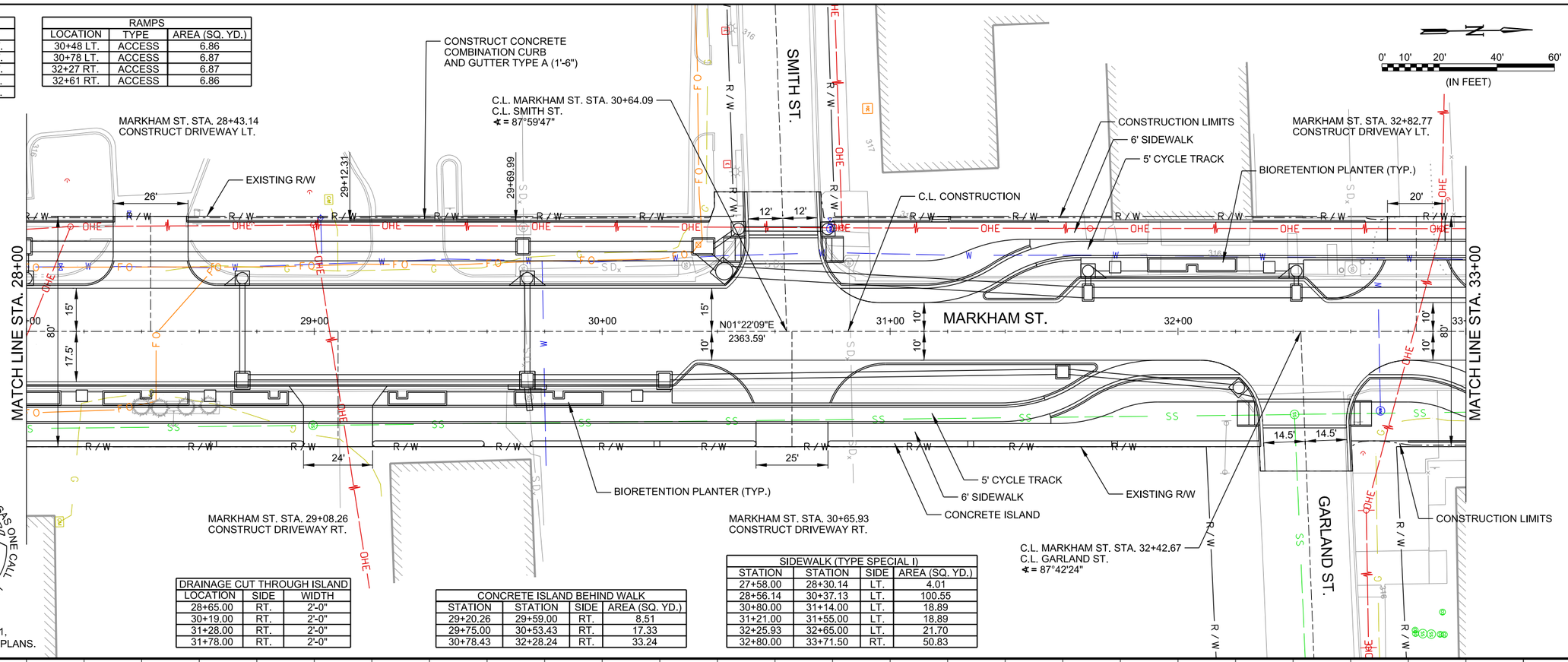
TREE GRATES	
STATION	OFFSET
28+19.28	22.33' RT.
28+63.77	22.33' RT.
30+12.09	22.33' RT.
31+78.16	22.33' LT.
32+31.69	22.33' LT.

RAMPS		
LOCATION	TYPE	AREA (SQ. YD.)
30+48 LT.	ACCESS	6.86
30+78 LT.	ACCESS	6.87
32+27 RT.	ACCESS	6.87
32+61 RT.	ACCESS	6.86



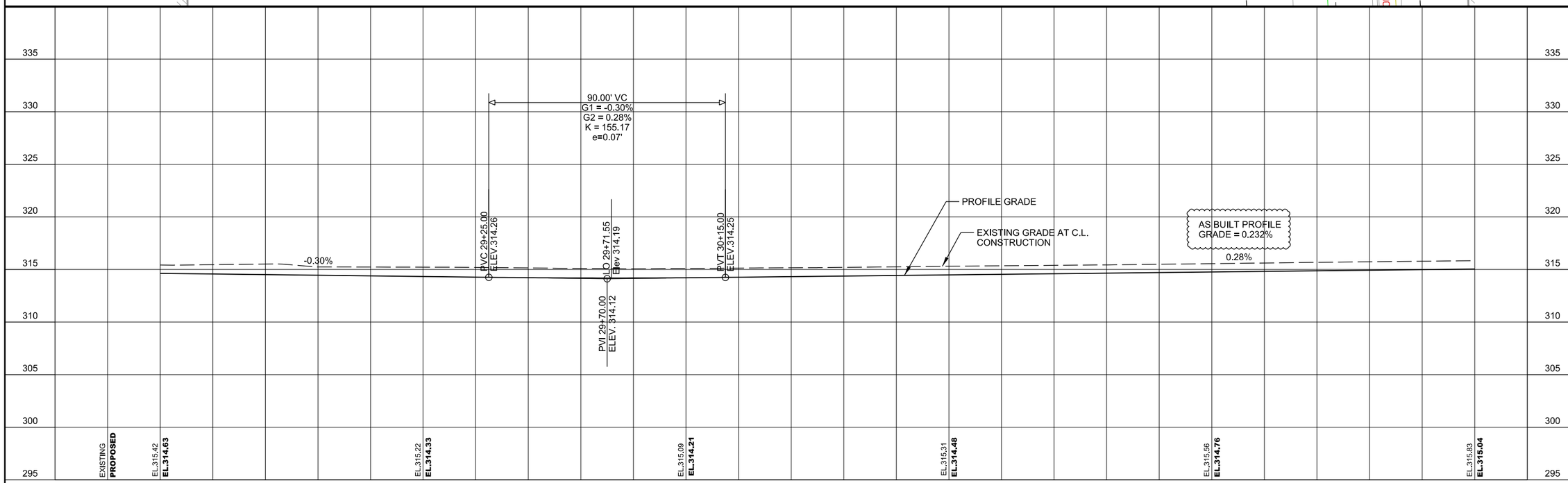
DRAINAGE CUT THROUGH ISLAND		
LOCATION	SIDE	WIDTH
28+65.00	RT.	2'-0"
30+19.00	RT.	2'-0"
31+28.00	RT.	2'-0"
31+78.00	RT.	2'-0"

CONCRETE ISLAND BEHIND WALK			
STATION	STATION	SIDE	AREA (SQ. YD.)
29+20.26	29+59.00	RT.	8.51
29+75.00	30+53.43	RT.	17.33
30+78.43	32+28.24	RT.	33.24

SIDEWALK (TYPE SPECIAL I)			
STATION	STATION	SIDE	AREA (SQ. YD.)
27+58.00	28+30.14	LT.	4.01
28+56.14	30+37.13	LT.	100.55
30+80.00	31+14.00	LT.	18.89
31+21.00	31+55.00	LT.	18.89
32+25.93	32+65.00	LT.	21.70
32+80.00	33+71.50	RT.	50.83

CALL BEFORE YOU DIG! ARKANSAS ONE CALL 1-800-482-8998 OR 811

SEE GENERAL NOTE 1, DRAWING G-002 OF THESE PLANS.



FINAL PLANS
NOT FOR CONSTRUCTION

BY	DESCRIPTION	DATE	REV.

METROPLAN
SMART PLANNING MAKES SMART PLACES

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

PLAN AND PROFILE - MARKHAM ST.
(SHEET 2 OF 6)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

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DRAWING NUMBER
C-602

SHEET NUMBER **43**

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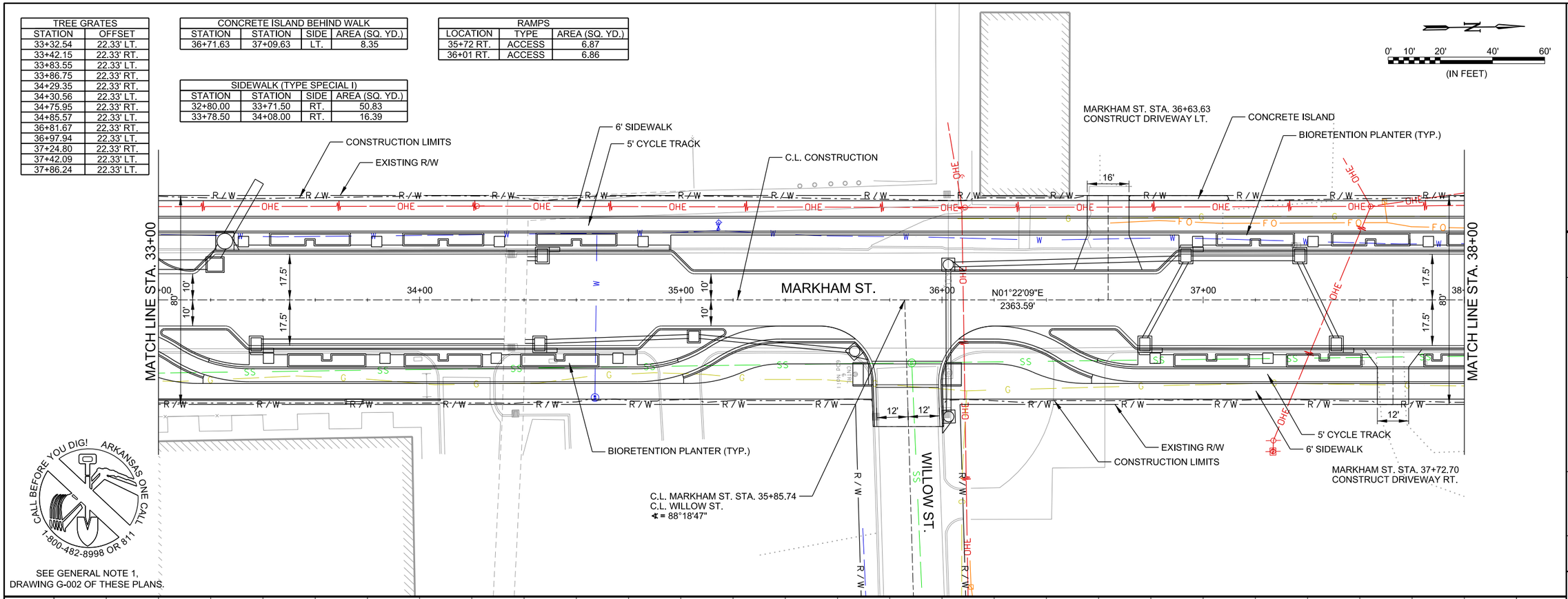
TREE GRATES	
STATION	OFFSET
33+32.54	22.33' LT.
33+42.15	22.33' RT.
33+83.55	22.33' LT.
33+86.75	22.33' RT.
34+29.35	22.33' RT.
34+30.56	22.33' LT.
34+75.95	22.33' RT.
34+85.57	22.33' LT.
36+81.67	22.33' RT.
36+97.94	22.33' LT.
37+24.80	22.33' RT.
37+42.09	22.33' LT.
37+86.24	22.33' LT.

CONCRETE ISLAND BEHIND WALK			
STATION	STATION	SIDE	AREA (SQ. YD.)
36+71.63	37+09.63	LT.	8.35

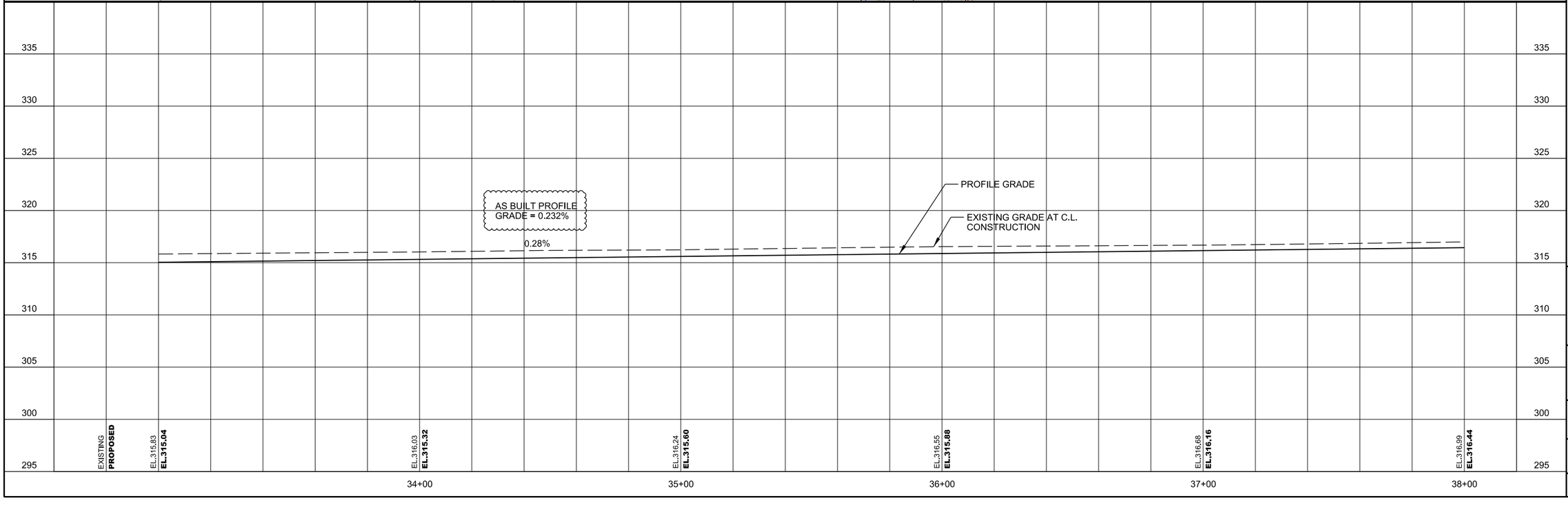
SIDEWALK (TYPE SPECIAL I)			
STATION	STATION	SIDE	AREA (SQ. YD.)
32+80.00	33+71.50	RT.	50.83
33+78.50	34+08.00	RT.	16.39

RAMPS		
LOCATION	TYPE	AREA (SQ. YD.)
35+72 RT.	ACCESS	6.87
36+01 RT.	ACCESS	6.86



CALL BEFORE YOU DIG! ARKANSAS ONE CALL 1-800-482-8998 OR 811

SEE GENERAL NOTE 1, DRAWING G-002 OF THESE PLANS.



FINAL PLANS
NOT FOR CONSTRUCTION

BY	DESCRIPTION	DATE	REV.

METROPLAN
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METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS. (CONWAY) (S)

PLAN AND PROFILE - MARKHAM ST.
(SHEET 3 OF 6)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

BAR IS ONE INCH ON ORIGINAL DRAWING
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DRAWING NUMBER
C-603

SHEET NUMBER **44**

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WORKSPACE:Garver_2012 - Conway - Markham Street\Drawings\CMSH-C603-PP.dgn
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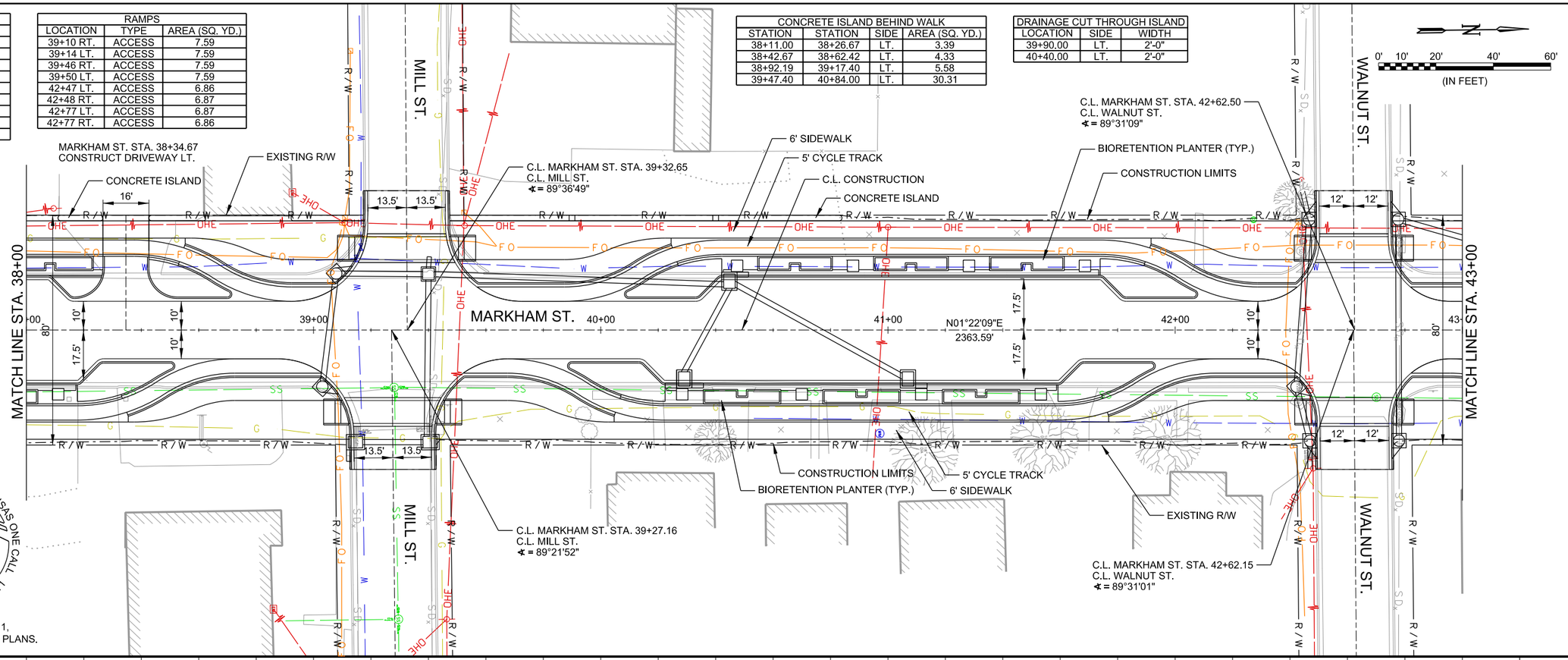
TREE GRATES	
STATION	OFFSET
38+11.06	22.33' RT.
40+28.38	22.33' RT.
40+47.46	22.33' LT.
40+70.01	22.33' RT.
40+87.84	22.33' LT.
41+11.63	22.33' RT.
41+28.21	22.33' LT.
41+53.26	22.33' RT.
41+68.59	22.33' LT.

RAMPS		
LOCATION	TYPE	AREA (SQ. YD.)
39+10 RT.	ACCESS	7.59
39+14 LT.	ACCESS	7.59
39+46 RT.	ACCESS	7.59
39+50 LT.	ACCESS	7.59
42+47 LT.	ACCESS	6.86
42+48 RT.	ACCESS	6.87
42+77 LT.	ACCESS	6.87
42+77 RT.	ACCESS	6.86

CONCRETE ISLAND BEHIND WALK			
STATION	STATION	SIDE	AREA (SQ. YD.)
38+11.00	38+26.67	LT.	3.39
38+42.67	38+62.42	LT.	4.33
38+92.19	39+17.40	LT.	5.58
39+47.40	40+84.00	LT.	30.31

DRAINAGE CUT THROUGH ISLAND		
LOCATION	SIDE	WIDTH
39+90.00	LT.	2'-0"
40+40.00	LT.	2'-0"



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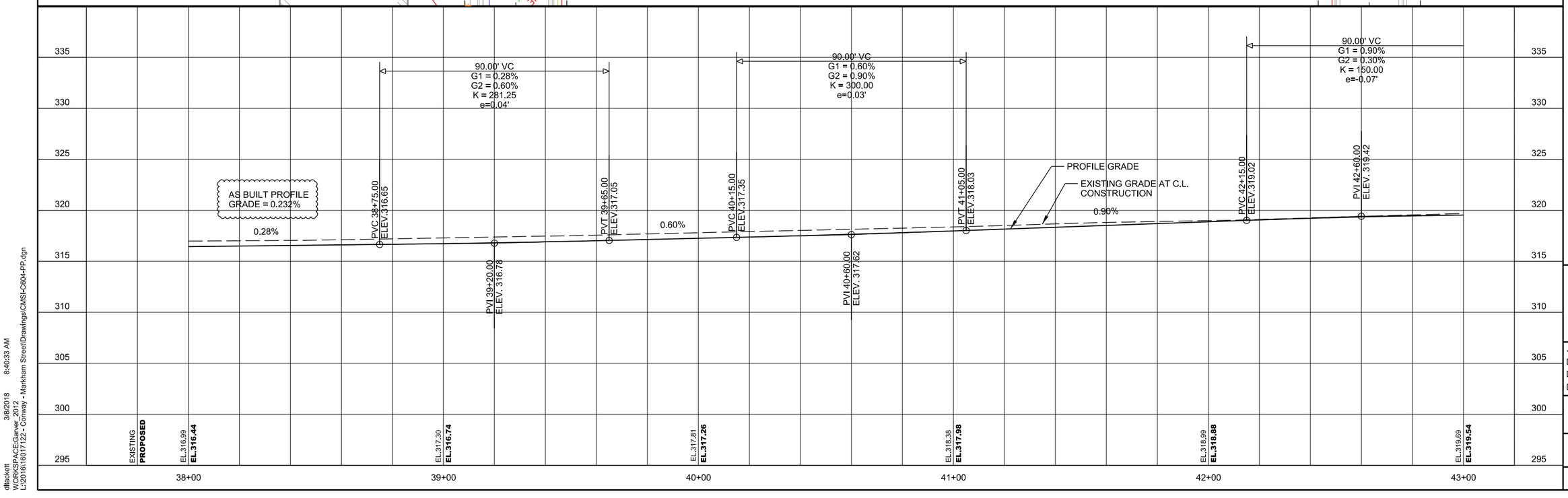
SEE GENERAL NOTE 1,
DRAWING G-002 OF THESE PLANS.



FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

PLAN AND PROFILE -
MARKHAM ST.
(SHEET 4 OF 6)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

BAR IS ONE INCH ON ORIGINAL DRAWING
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DRAWING NUMBER
C-604

SHEET NUMBER **45**

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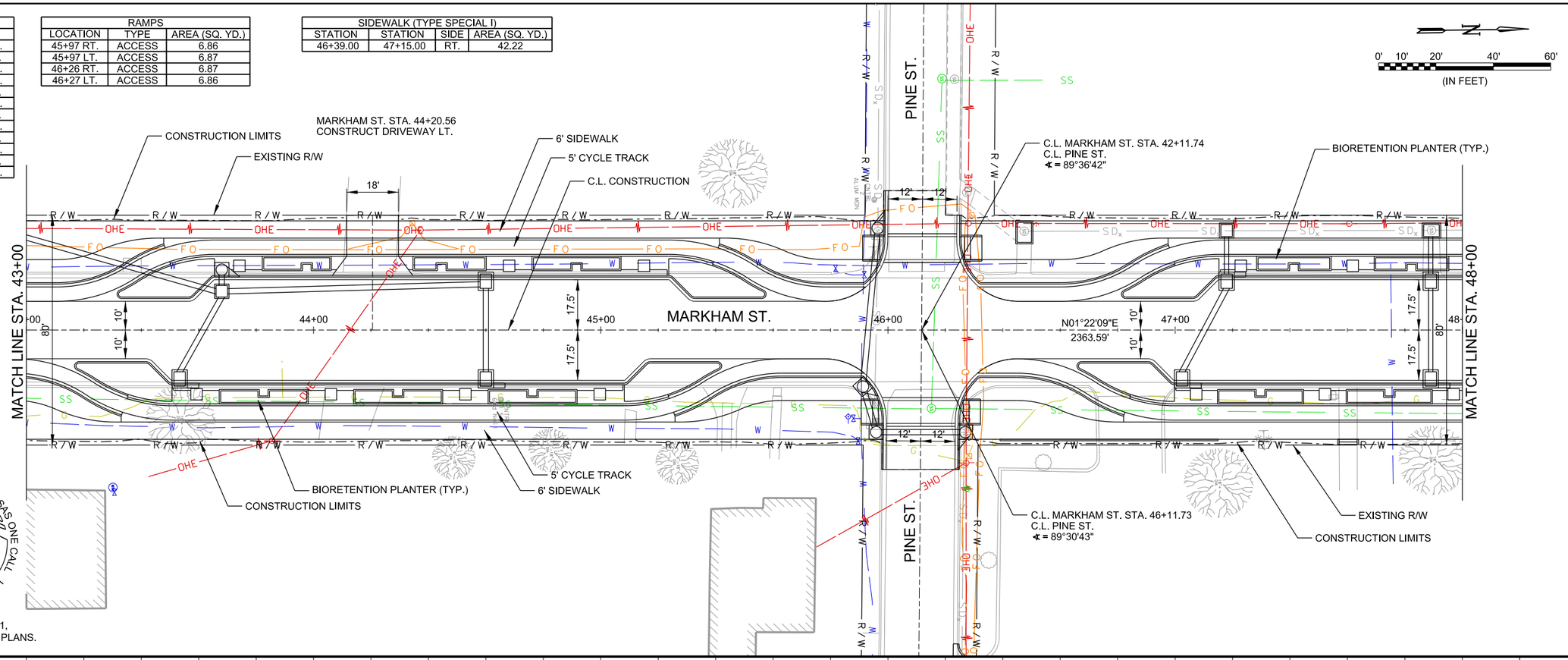
TREE GRATES	
STATION	OFFSET
43+59.26	22.33' RT.
43+74.19	22.33' LT.
44+06.06	22.33' RT.
44+52.86	22.33' RT.
44+68.09	22.33' LT.
44+99.66	22.33' RT.
45+15.04	22.33' LT.
47+07.33	22.33' RT.
47+22.88	22.33' LT.
47+52.16	22.33' RT.
47+61.84	22.33' LT.
47+96.98	22.33' RT.

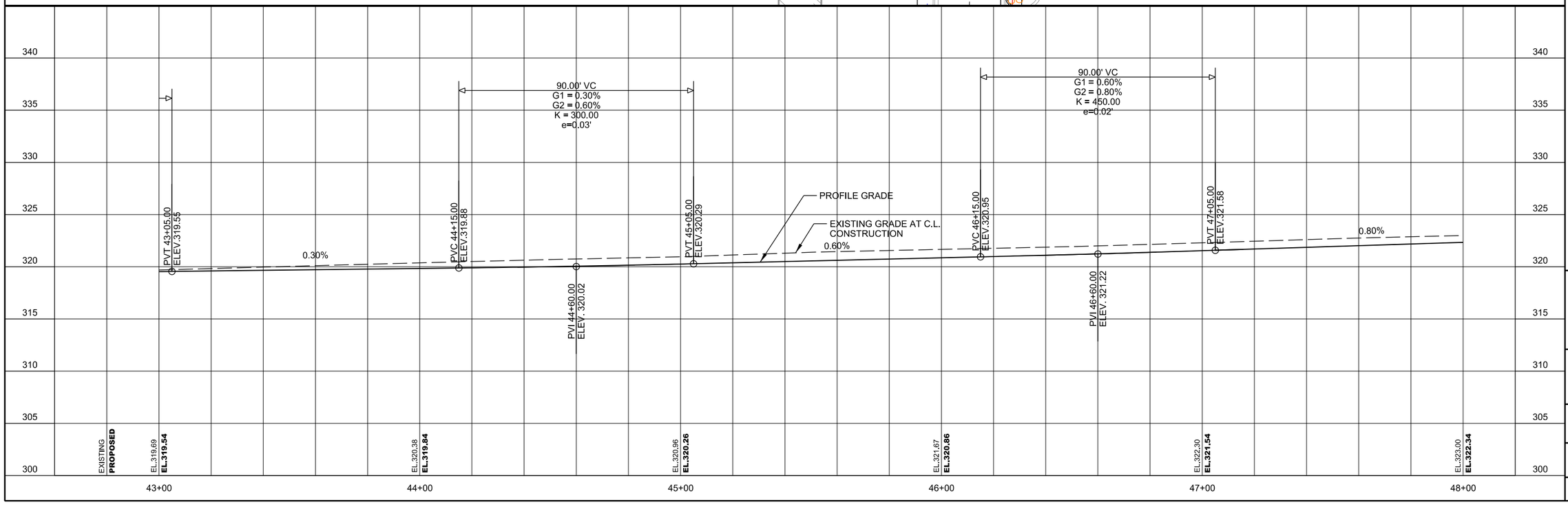
RAMPS		
LOCATION	TYPE	AREA (SQ. YD.)
45+97 RT.	ACCESS	6.86
45+97 LT.	ACCESS	6.87
46+26 RT.	ACCESS	6.87
46+27 LT.	ACCESS	6.86

SIDEWALK (TYPE SPECIAL I)			
STATION	STATION	SIDE	AREA (SQ. YD.)
46+39.00	47+15.00	RT.	42.22



CALL BEFORE YOU DIG! ARKANSAS ONE CALL 1-800-482-8998 OR 811

SEE GENERAL NOTE 1, DRAWING G-002 OF THESE PLANS.



FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

PLAN AND PROFILE - MARKHAM ST.
(SHEET 5 OF 6)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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DRAWING NUMBER
C-605

SHEET NUMBER **46**

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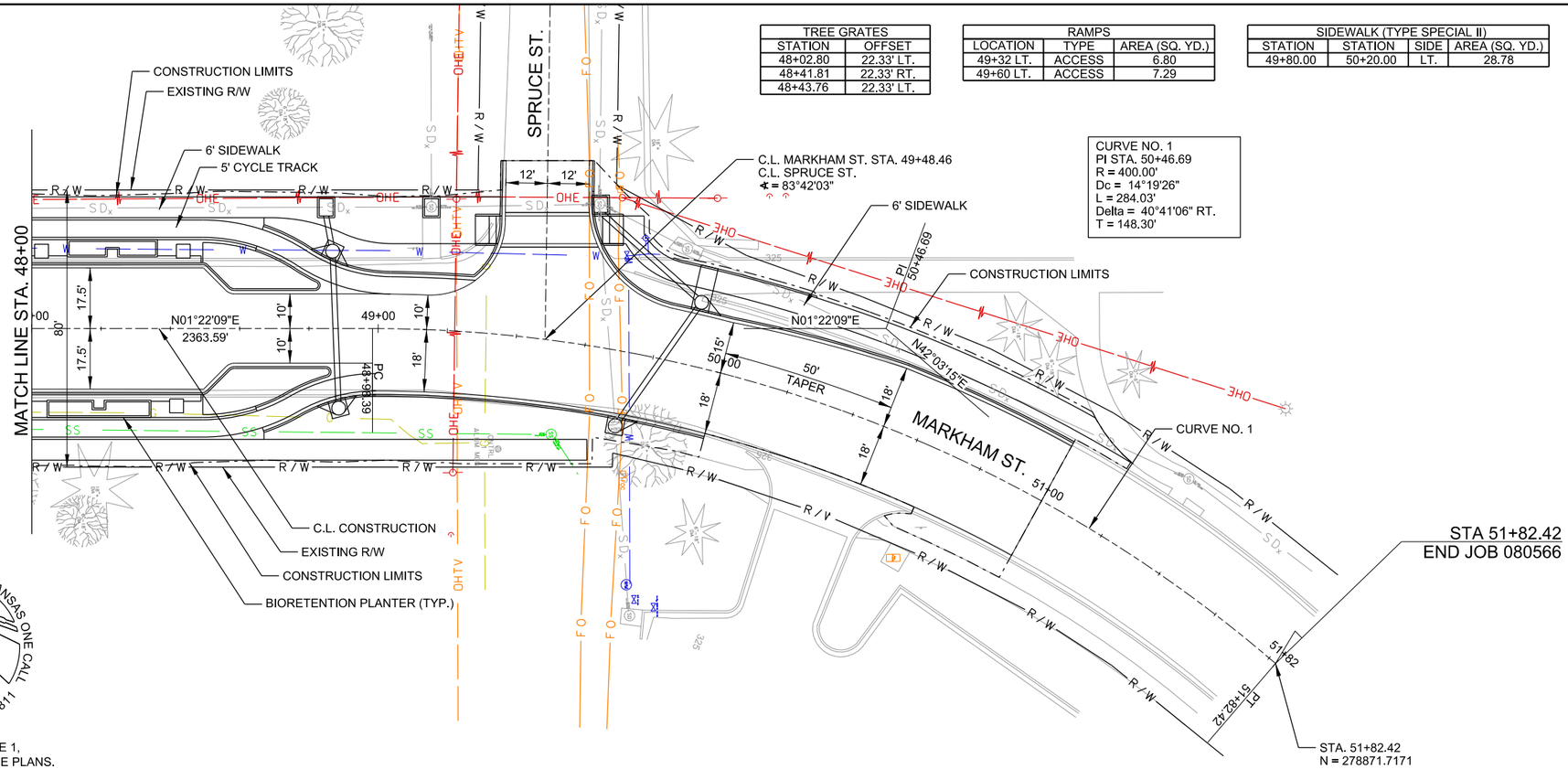
TREE GRATES	
STATION	OFFSET
48+02.80	22.33' LT.
48+41.81	22.33' RT.
48+43.76	22.33' LT.

RAMPS		
LOCATION	TYPE	AREA (SQ. YD.)
49+32 LT.	ACCESS	6.80
49+60 LT.	ACCESS	7.29

SIDEWALK (TYPE SPECIAL II)			
STATION	STATION	SIDE	AREA (SQ. YD.)
49+80.00	50+20.00	LT.	28.78

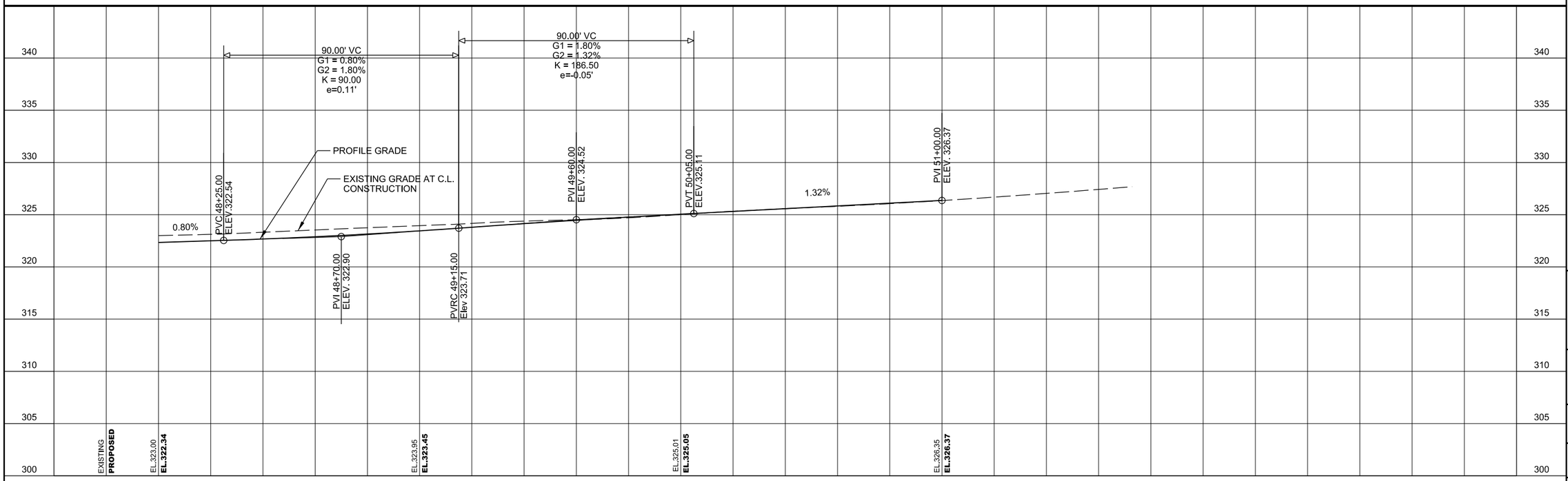
0' 10' 20' 40' 60'
(IN FEET)

CURVE NO. 1
PI STA. 50+46.69
R = 400.00'
Dc = 14°19'26"
L = 284.03'
Delta = 40°41'06" RT.
T = 148.30'



CALL BEFORE YOU DIG! ARKANSAS ONE CALL 1-800-482-8998 OR 811

SEE GENERAL NOTE 1,
DRAWING G-002 OF THESE PLANS.



FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

PLAN AND PROFILE -
MARKHAM ST.
(SHEET 6 OF 6)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

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DRAWING NUMBER
C-606

SHEET NUMBER **47**

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STA. 25+70.00 CONSTRUCT
TYPE ST JUNCTION BOX 29.25' LT.
WITH 44" x 27" x 88' R.C. ARCH PIPE TO
JUNCTION BOX AT STA. 24+88.00 LT.
(3' x 6' x H = 5'-9")
44" x 27" R.C. ARCH PIPE
(CLASS III) (TYPE 3 BEDDING) = 88 LIN. FT.

STA. 24+88.00 CONSTRUCT
TYPE ST JUNCTION BOX 13.75' LT.
WITH 44" x 27" x 106' R.C. ARCH PIPE TO
EXISTING DROP INLET AT STA. 23+77.85 LT.
(3' x 5' x H = 5'-1")
44" x 27" R.C. ARCH PIPE
(CLASS III) (TYPE 3 BEDDING) = 106 LIN. FT.

STA. 28+00.00 CONSTRUCT
TYPE ST JUNCTION BOX 29.50' LT.
WITH 44"x27" x 228' R.C. ARCH PIPE TO
JUNCTION BOX AT STA. 25+70.00 LT.
(3' x 5' x H = 5'-4")
44" x 27" R.C. ARCH PIPE
(CLASS III) (TYPE 3 BEDDING) = 228 LIN. FT.

STA. 28+00.00 CONSTRUCT
TYPE MO DROP INLET 18.50' LT.
WITH 4' EXTENSION AND
18" x 7' R.C. PIPE TO
JUNCTION BOX AT STA. 28+00.00 LT.
(4' DIA. x H = 4'-0")
18" R.C. PIPE
(CLASS III) (TYPE 3 BEDDING) = 7 LIN. FT.

N

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

VAN RONKLE ST.
OAK ST.
CHESTNUT ST.
MARKHAM ST.
MATCH LINE STA. 28+00
EXISTING R/W
C.L. CONSTRUCTION
EXISTING R/W
FUTURE CONSTRUCTION
BY CITY OF CONWAY (TYP.)
POB 23+60.00
PI 25+34.80
23+60
24+00
25+00
26+00
27+00
28+00
OHE
SS
W
R / W

CALL BEFORE YOU DIG! ARKANSAS ONE CALL 1-800-482-8998 OR 811

SEE GENERAL NOTE 1,
DRAWING G-002 OF THESE PLANS.

NOTES:

1. STATION AND OFFSET SHOWN TO CENTER OF DRAINAGE STRUCTURE (TYP.)
2. EXISTING SANITARY SEWER UTILITIES SHOWN ON THE DRAINAGE PROFILES REPRESENT APPROXIMATE CROSSING ELEVATIONS AT PIPE AND DRAINAGE STRUCTURE LOCATIONS

PROFILE GRADE
EXISTING GRADE AT C.L. CONSTRUCTION

F.L. IN = 306.22

+88.00 LT.
TOP = 313.98
F.L. = 308.88

EXISTING 10"
SANITARY SEWER

+70.00LT.
TOP = 315.08
F.L. = 309.32

EXISTING 10"
SANITARY SEWER

+00.00 29.50' LT.
TOP = 315.01
F.L. = 310.75 E
F.L. = 309.66 N,S

+00.00 18.50' LT.
TOP = 314.84
F.L. = 310.84

335 330 325 320 315 310 305 300 295

23+00 24+00 25+00 26+00 27+00 28+00

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

DRAINAGE PLAN AND PROFILE - MARKHAM ST.
(SHEET 1 OF 6)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: AEW
DRAWN BY: AEW

BAR IS ONE INCH ON ORIGINAL DRAWING
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DRAWING NUMBER
C-701

SHEET NUMBER 48

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STA. 28+75.00 CONSTRUCT
TYPE MO DROP INLET 18.50' LT.
WITH 4' EXTENSION AND
22" x 14" x 31' R.C. ARCH PIPE TO
DROP INLET AT STA. 28+75.00 RT.
(4' DIA. x H = 2'-10")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 31 LIN. FT.

STA. 29+72.50 CONSTRUCT
TYPE ST JUNCTION BOX 29.50' LT.
WITH 44" x 27" x 169' R.C. ARCH PIPE TO
JUNCTION BOX AT STA. 28+00.00 LT.
(4' x 5' x H = 4'-8")
44" x 27" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 169 LIN. FT.

STA. 29+74.00 CONSTRUCT
TYPE MO DROP INLET 18.50' LT.
WITH 2-4' EXTENSIONS AND
22" x 14" x 31' R.C. ARCH PIPE TO
DROP INLET AT STA. 29+74.00 RT.
(4' DIA. x H = 2'-11")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 31 LIN. FT.

STA. 30+35.15 CONSTRUCT
TYPE ST JUNCTION BOX 29.50' LT.
WITH 44" x 27" x 57' R.C. ARCH PIPE TO
JUNCTION BOX AT STA. 29+72.50 LT.
(7' x 5' X H = 4'-8")
44" x 27" R.C. ARCH PIPE
(CLASS III) (TYPE 3 BEDDING) = 57 LIN. FT.

STA. 30+42.39 CONSTRUCT
TYPE MO DROP INLET 20.93' LT.
WITH 44" x 27" x 9' R.C. ARCH PIPE TO
JUNCTION BOX AT STA. 30+35.15 LT.
(6' DIA. x H = 4'-7")
44" x 27" R.C. ARCH PIPE
(CLASS III) (TYPE 3 BEDDING) = 9 LIN. FT.

STA. 30+47.33 CONSTRUCT
TYPE MO DROP INLET 35.62' LT.
WITH 18" x 9' R.C. PIPE TO
JUNCTION BOX AT STA. 30+35.15 LT.
(4' DIA. x H = 4'-7")
18" R.C. PIPE
(CLASS III) (TYPE 3 BEDDING) = 9 LIN. FT.

STA. 30+78.35 CONSTRUCT
TYPE MO DROP INLET 35.57' LT.
WITH 18" x 27' R.C. PIPE TO
DROP INLET AT STA. 30+47.33 LT.
(4' DIA. x H = 4'-5")
18" R.C. PIPE
(CLASS V) (TYPE 3 BEDDING) = 27 LIN. FT.

STA. 31+68.80 CONSTRUCT
TYPE MO DROP INLET 21.00' LT.
WITH 4' EXTENSION AND
18" x 3' R.C. PIPE TO
JUNCTION BOX AT STA. 31+68.80 LT.
(4' DIA. x H = 3'-9")
18" R.C. PIPE
(CLASS V) (TYPE 3 BEDDING) = 3 LIN. FT.

STA. 31+68.80 CONSTRUCT
TYPE ST JUNCTION BOX 13.50' LT.
WITH 44" x 27" x 123' R.C. ARCH PIPE TO
DROP INLET AT STA.30+42.39 LT.
(3' x 5' x H = 4'-3")
44" x 27" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 123 LIN. FT.

STA. 32+41.12 CONSTRUCT
TYPE MO DROP INLET 21.00' LT.
WITH 4' EXTENSION AND
18" x 3' R.C. PIPE TO
JUNCTION BOX AT STA. 32+41.12
(4' DIA. x H = 3'-11")
18" R.C. PIPE
(CLASS V) (TYPE 3 BEDDING) = 3 LIN. FT.

STA. 32+41.12 CONSTRUCT
TYPE ST JUNCTION BOX 13.50' LT.
WITH 44" x 27" x 69' R.C. ARCH PIPE TO
JUNCTION BOX AT STA. 31+68.80 LT.
(3' x 5' x H = 4'-4")
44" x 27" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 69 LIN. FT.

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

EXISTING R/W

MATCH LINE STA. 28+00

MATCH LINE STA. 33+00

SMITH ST.

MARKHAM ST.

GARLAND ST.

C.L. CONSTRUCTION

28+00 29+00 30+00 31+00 32+00 33+00

STA. 28+75.00 CONSTRUCT
REVERSE THROAT DROP INLET 17.00' RT.
WITH 22" x 14" x 95' R.C. ARCH PIPE TO
DROP INLET AT STA. 29+74.00 RT.
(5' x 4' x H = 2'-6")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 95 LIN. FT.

STA. 29+74.00 CONSTRUCT
REVERSE THROAT DROP INLET 17.00' RT.
WITH 2-4' EXTENSIONS AND
24" x 8' R.C. PIPE TO
EXISTING 24" R.C. PIPE
(5' x 4' x H = 2'-6")
24" R.C. PIPE
(CLASS III) (TYPE 3 BEDDING) = 8 LIN. FT.

STA. 30+21.60 CONSTRUCT
REVERSE THROAT DROP INLET 17.00' RT.
WITH 22" x 14" x 44' R.C. ARCH PIPE TO
DROP INLET AT STA. 29+74.00 RT.
(5'x 4' x H = 2'-6")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 44 LIN. FT.

STA. 31+60.00 CONSTRUCT
TYPE ST JUNCTION BOX 14.00' RT.
WITH 22" x 14" x 134' R.C. ARCH PIPE TO
DROP INLET AT STA. 30+21.60 RT.
(4' x 4' x H = 3'-2")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 134 LIN. FT.

STA. 32+21.15 CONSTRUCT
TYPE MO DROP INLET 19.53' RT.
WITH 4' EXTENSION AND
22" x 14" x 58' R.C. ARCH PIPE TO
JUNCTION BOX AT STA. 31+60.00 RT.
(4' DIA. x H = 3'-2")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 58 LIN. FT.

EXISTING R/W

CALL BEFORE YOU DIG! ARKANSAS ONE CALL 1-800-482-8998 OR 811

SEE GENERAL NOTE 1,
DRAWING G-002 OF THESE PLANS.

NOTES:

1. STATION AND OFFSET SHOWN TO CENTER OF DRAINAGE STRUCTURE (TYP.)
2. EXISTING SANITARY SEWER UTILITIES SHOWN ON THE DRAINAGE PROFILES REPRESENT APPROXIMATE CROSSING ELEVATIONS AT PIPE AND DRAINAGE STRUCTURE LOCATIONS

335 330 325 320 315 310 305 300 295

PROFILE GRADE

EXISTING GRADE AT C.L. CONSTRUCTION

+75.00 18.50' LT.
TOP = 314.62
F.L. = 311.76

+75.00 17.00' RT.
TOP = 314.06
F.L. = 311.60

+72.50 LT.
TOP = 314.57
F.L. = 309.91

+74.00 18.50' LT.
TOP = 314.40
F.L. = 311.48

+74.00 17.00' RT.
TOP = 313.84
F.L. = 311.32

+21.60 RT. 17.00' RT.
TOP = 313.92
F.L. = 311.44

+35.15 LT.
TOP = 314.68
F.L. = 310.80 N
F.L. = 309.99 S,E

+42.39 LT.
TOP = 314.57
F.L. = 310.01

+47.33 LT.
TOP = 315.50
F.L. = 310.95

+78.35 LT.
TOP = 315.50
F.L. = 311.10

+60.00 RT.
TOP = 314.96
F.L. = 311.82

+68.80 21.00' LT.
TOP = 314.85
F.L. = 311.11

+68.80 13.50' LT.
TOP = 314.41
F.L. = 311.08 W
F.L. = 310.20 N,S

+21.15 RT.
TOP = 315.17
F.L. = 311.98

+41.12 21.00' LT.
TOP = 315.06
F.L. = 311.15

+41.12 13.50' LT.
TOP = 314.61
F.L. = 311.05 W
F.L. = 310.30 N,S

28+00 29+00 30+00 31+00 32+00 33+00

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

DRAINAGE PLAN AND PROFILE - MARKHAM ST. (SHEET 2 OF 6)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: AEW
DRAWN BY: AEW

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DRAWING NUMBER
C-702

SHEET NUMBER 49

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STA. 33+25.43 CONSTRUCT
TYPE MO DROP INLET 22.50' LT.
WITH 2' EXTENSION AND
WITH 44" x 27" x 6' R.C. ARCH PIPE TO
JUNCTION BOX AT STA. 33+21.68 LT.
AND 44" x 27" x 24' R.C. ARCH PIPE STUB
(6' DIA. x H = 4'-11")
44" x 27" R.C. ARCH PIPE
(CLASS III) (TYPE 3 BEDDING) = 30 LIN. FT.

STA. 33+21.68 CONSTRUCT
TYPE ST JUNCTION BOX 13.50' LT.
WITH 44" x 27" x 76' R.C. ARCH PIPE TO
JUNCTION BOX AT STA. 32+41.12 LT.
(6' x 5' x H = 4'-5")
44" x 27" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 76 LIN. FT.

STA. 34+47.00 CONSTRUCT
REVERSE THROAT DROP INLET 17.00' LT.
WITH 4' EXTENSION AND
18" x 4' R.C. PIPE TO
EXISTING BOX CULVERT
(5' x 4' x H = 2'-9")
18" R.C. PIPE
(CLASS V) (TYPE 3 BEDDING) = 4 LIN. FT.

STA. 36+02.42 CONSTRUCT
TYPE MO DROP INLET 13.50' LT.
WITH 4' EXTENSION
CONNECT TO EXISTING 18" PIPE
(4' DIA. x H = 3'-1")

STA. 36+93.42 CONSTRUCT
REVERSE THROAT DROP INLET 17.00' LT.
WITH 4' EXTENSION AND
22" x 14" x 87' R.C. ARCH PIPE TO
INLET AT STA. 36+02.42 LT.
(5' x 4' x H = 2'-5")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 87 LIN. FT.

STA. 37+37.00 CONSTRUCT
REVERSE THROAT DROP INLET 17.00' LT.
WITH 22" x 14" x 40' R.C. ARCH PIPE TO
DROP INLET AT STA. 36+93.42 LT.
(4' DIA. x H = 2'-5")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 40 LIN. FT.

EXISTING R/W

STA. 33+38.62, 45.34' LT.
PLUG PIPE FOR FUTURE
CONNECTION BY OTHERS

15.92' LT.

MATCH LINE STA. 33+00

MARKHAM ST.

MATCH LINE STA. 38+00

C.L. CONSTRUCTION

15.92' RT.

15.92' RT.

WILLOW ST.

STA. 36+02.56 CONSTRUCT
TYPE MO DROP INLET 44.69' RT.
WITH 4' EXTENSION AND
22" x 14" x 55' R.C. ARCH PIPE TO
DROP INLET AT STA. 36+02.42 LT.
(4' DIA. x H = 3'-1")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 55 LIN. FT.

EXISTING R/W

STA. 37+51.00 CONSTRUCT
REVERSE THROAT DROP INLET 17.00' RT.
WITH 4' EXTENSION AND
22" x 14" x 32' R.C. ARCH PIPE TO
DROP INLET AT STA. 37+37.00 LT.
(5' x 4' x H = 2'-5")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 32 LIN. FT.

STA. 33+37.46 CONSTRUCT
REVERSE THROAT DROP INLET 17.00' RT.
WITH 4' EXTENSION AND
22" x 14" x 93' R.C. ARCH PIPE TO
EXISTING BOX CULVERT
(5' x 4' x H = 2'-5")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 93 LIN. FT.

STA. 34+46.00 CONSTRUCT
REVERSE THROAT DROP INLET 17.00' RT.
WITH 4' EXTENSION AND
18" x 4' R.C. PIPE TO
EXISTING BOX CULVERT
(5' x 4' x H = 2'-9")
18" R.C. PIPE
(CLASS V) (TYPE 3 BEDDING) = 4 LIN. FT.

STA. 35+05.00 CONSTRUCT
TYPE ST JUNCTION BOX 14.00' RT.
WITH 18" x 55' R.C. PIPE TO
DROP INLET AT STA. 34+46.00 RT.
(4' x 4' x H = 3'-5")
18" R.C. PIPE
(CLASS V) (TYPE 3 BEDDING) = 55 LIN. FT.

STA. 35+66.55 CONSTRUCT
TYPE MO DROP INLET 19.69' RT.
WITH 4' EXTENSION AND
18" x 58' R.C. PIPE TO
JUNCTION BOX AT STA. 35+05.00
(4' DIA. x H = 3'-5")
18" R.C. PIPE
(CLASS III) (TYPE 3 BEDDING) = 58 LIN. FT.

STA. 36+77.69 CONSTRUCT
REVERSE THROAT DROP INLET 17.00' RT.
WITH 4' EXTENSION AND
22" x 14" x 35' R.C. ARCH PIPE TO
DROP INLET AT STA. 36+93.42 LT.
(4' DIA. x H = 2'-3")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 35 LIN. FT.

CALL BEFORE YOU DIG! ARKANSAS ONE CALL 1-800-482-8998 OR 811

SEE GENERAL NOTE 1,
DRAWING G-002 OF THESE PLANS.

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

NOTES:

1. STATION AND OFFSET SHOWN TO CENTER OF DRAINAGE STRUCTURE (TYP.)
2. EXISTING SANITARY SEWER UTILITIES SHOWN ON THE DRAINAGE PROFILES REPRESENT APPROXIMATE CROSSING ELEVATIONS AT PIPE AND DRAINAGE STRUCTURE LOCATIONS

PROFILE GRADE

EXISTING GRADE AT C.L. CONSTRUCTION

EXISTING BOX CULVERT

+21.68 LT.
TOP = 314.83
F.L. = 310.42

+38.62 LT.
F.L. = 310.47

+25.43 LT.
TOP = 315.32
F.L. = 310.43

+37.46 17.00' RT.
TOP = 314.81
F.L. = 312.38

+32.38 15.92 RT.
F.L. = 312.10

+40.38 15.92' RT.
F.L. = 312.25

+41.17 15.92' LT.
F.L. = 312.25

+47.00 LT.
TOP = 315.12
F.L. = 312.37

+46.00 RT.
TOP = 315.11
F.L. = 312.37

+05.00 RT.
TOP = 315.92
F.L. = 312.54

+66.55 RT.
TOP = 316.14
F.L. = 312.71

+02.42 LT.
TOP = 316.19
F.L. = 313.13

+02.56 RT.
TOP = 316.47
F.L. = 313.35

+93.42 17.00' LT.
TOP = 315.81
F.L. = 313.37

+77.52 RT.
TOP = 315.76
F.L. = 313.47

+37.00 17.00' LT.
TOP = 315.93
F.L. = 313.48

+51.00 RT.
TOP = 315.97
F.L. = 313.57

EXISTING 8" SANITARY SEWER (TYP.)

335 330 325 320 315 310 305 300 295

33+00 34+00 35+00 36+00 37+00 38+00

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

DRAINAGE PLAN AND PROFILE - MARKHAM ST.
(SHEET 3 OF 6)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: AEW
DRAWN BY: AEW

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

DRAWING NUMBER
C-703

SHEET NUMBER 50

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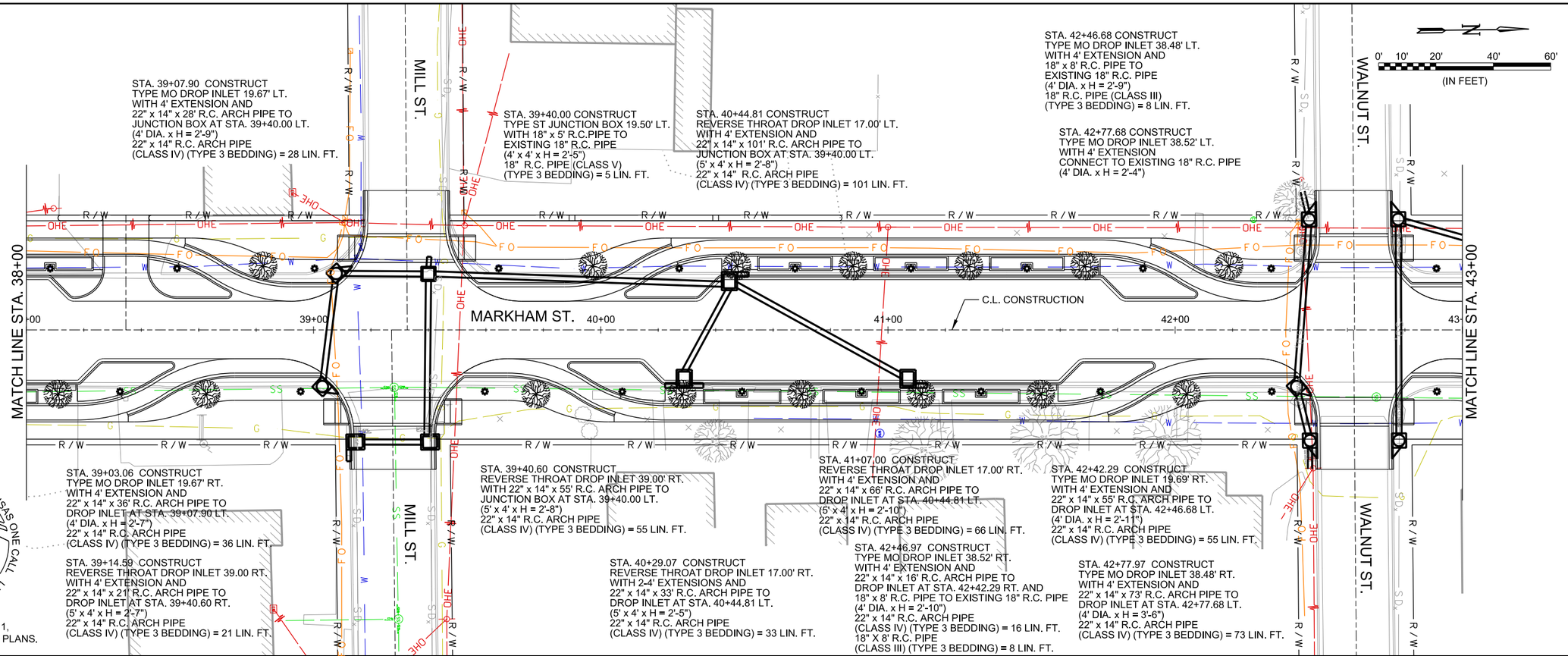

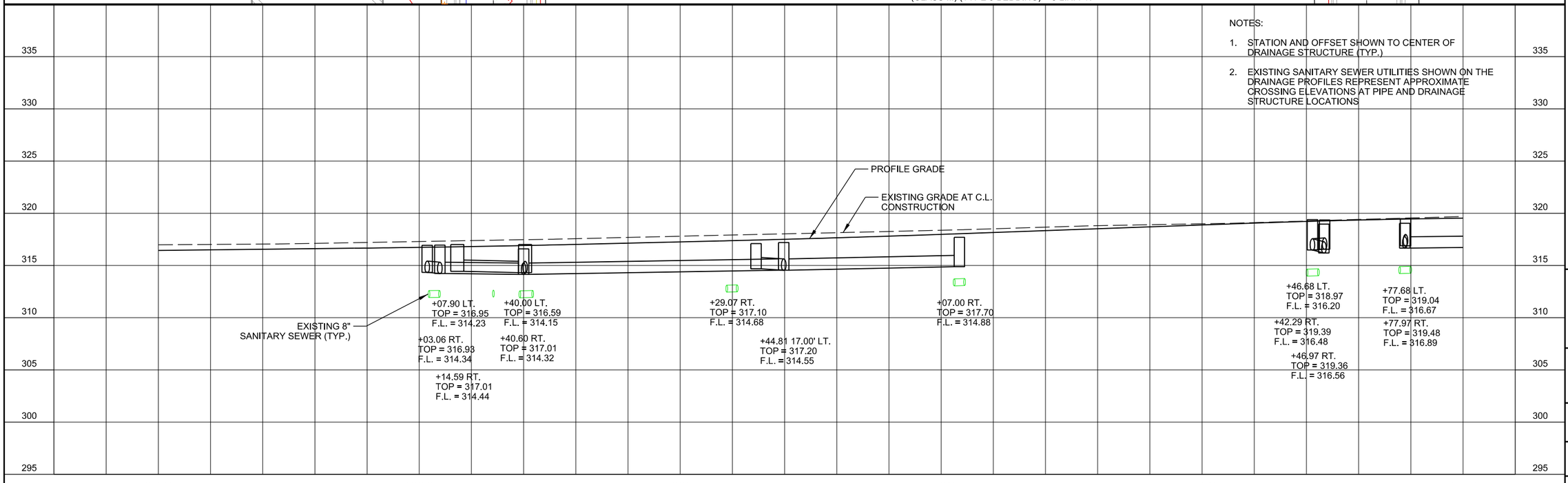

NOTES:

1. STATION AND OFFSET SHOWN TO CENTER OF DRAINAGE STRUCTURE (TYP.)
2. EXISTING SANITARY SEWER UTILITIES SHOWN ON THE DRAINAGE PROFILES REPRESENT APPROXIMATE CROSSING ELEVATIONS AT PIPE AND DRAINAGE STRUCTURE LOCATIONS

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

DRAINAGE PLAN AND PROFILE - MARKHAM ST.
(SHEET 4 OF 6)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: AEW
DRAWN BY: AEW

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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DRAWING NUMBER
C-704

SHEET NUMBER 51

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STA. 43+68.05 CONSTRUCT
TYPE MO DROP INLET 21.00' LT.
WITH 4' EXTENSION AND
22" x 14" x 4' R.C. ARCH PIPE TO
JUNCTION BOX AT STA. 43+68.05 LT.
(4' DIA. x H = 3'-0")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 4 LIN. FT.

STA. 43+68.05 CONSTRUCT
TYPE ST JUNCTION BOX 13.50' LT.
WITH 22" x 14" x 90' R.C. ARCH PIPE TO
DROP INLET AT STA. 42+77.68 LT.
(4' x 4' x H = 2'-7")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 90 LIN. FT.

STA. 44+60.00 CONSTRUCT
REVERSE THROAT DROP INLET 17.00' LT.
WITH 22" x 14" x 88' R.C. ARCH PIPE TO
JUNCTION BOX AT STA. 43+68.05 LT.
(5' x 4' x H = 2'-6")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 88 LIN. FT.

STA. 45+96.46 CONSTRUCT
TYPE MO DROP INLET 35.50' LT.
WITH 4' EXTENSION AND
CONNECT TO EXISTING 24" R.C. PIPE
(4' DIA. x H = 3'-8")

STA. 47+17.92 CONSTRUCT
TYPE ST JUNCTION BOX 34.63' LT.
CONNECT TO EXISTING 36" R.C. PIPE
(4' x 4'-3" x H = 3'-6")

STA. 47+17.92 CONSTRUCT
REVERSE THROAT DROP INLET 17.00' LT.
WITH 4' EXTENSION AND
18" x 13' R.C. PIPE TO
JUNCTION BOX AT STA. 47+17.92 LT.
(5' x 4' x H = 2'-8")
18" R.C. PIPE (CLASS III)
(TYPE 3 BEDDING) = 13 LIN. FT.

STA. 47+89.25 CONSTRUCT
TYPE ST JUNCTION BOX 34.62' LT.
CONNECT TO EXISTING 36" R.C. PIPE
(5'-6" x 4'-3" x H = 4'-1")

STA. 47+89.00 CONSTRUCT
REVERSE THROAT DROP INLET 17.00' LT.
WITH 18" x 13' R.C. PIPE TO
JUNCTION BOX AT STA. 47+89.25 LT.
(5' x 4' x H = 3'-1")
18" R.C. PIPE (CLASS III)
(TYPE 3 BEDDING) = 13 LIN. FT.

STA. 46+47.50 CONSTRUCT
TYPE ST JUNCTION BOX 34.00' LT.
CONNECT TO EXISTING 36" R.C. PIPE
AND EXISTING BOX CULVERT
(5' x 7' x H = 3'-2")

MATCH LINE STA. 43+00

MATCH LINE STA. 48+00

PINE ST.

PINE ST.

MARKHAM ST.

C.L. CONSTRUCTION

43+00 44+00 45+00 46+00 47+00 48+00

STA. 43+53.39 CONSTRUCT
REVERSE THROAT DROP INLET 17.00' RT.
WITH 4' EXTENSION AND
22" x 14" x 30' R.C. ARCH PIPE TO
JUNCTION BOX AT STA. 43+68.05 LT.
(4' DIA. x H = 2'-4")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 30 LIN. FT.

STA. 44+60.00 CONSTRUCT
REVERSE THROAT DROP INLET 17.00' RT.
WITH 4' EXTENSION AND
22" x 14" x 29' R.C. ARCH PIPE TO
DROP INLET AT STA. 44+60.00 LT.
(5' x 4' x H = 2'-5")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 29 LIN. FT.

STA. 45+91.31 CONSTRUCT
TYPE MO DROP INLET 19.65' RT.
WITH 4' EXTENSION AND
22" x 14" x 52' R.C. ARCH PIPE TO
DROP INLET AT STA. 45+96.46 LT.
(4' DIA. x H = 3'-0")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 52 LIN. FT.

STA. 45+95.93 CONSTRUCT
TYPE MO DROP INLET 35.53' RT.
WITH 22" x 14" x 13' R.C. ARCH PIPE TO
DROP INLET AT STA. 45+91.31 RT.
(4' DIA. x H = 3'-3")
22" x 14" R.C. ARCH PIPE
(CLASS III) (TYPE 3 BEDDING) = 13 LIN. FT.

STA. 46+26.93 CONSTRUCT
TYPE MO DROP INLET 35.52' RT.
WITH 4' EXTENSION AND
22" x 14" x 27' R.C. ARCH PIPE TO
DROP INLET AT STA. 45+95.93 RT.
(4' DIA. x H = 3'-2")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 27 LIN. FT.

STA. 47+89.00 CONSTRUCT
REVERSE THROAT DROP INLET 17.00' RT.
WITH 4' EXTENSION AND
18" x 29' R.C. PIPE TO
DROP INLET AT STA. 47+89.00 LT.
(5' x 4' x H = 2'-11")
18" R.C. PIPE (CLASS V)
(TYPE 3 BEDDING) = 29 LIN. FT.

STA. 47+02.43 CONSTRUCT
REVERSE THROAT DROP INLET 17.00' RT.
WITH 4' EXTENSION AND
22" x 14" x 33' R.C. ARCH PIPE TO
DROP INLET AT STA. 47+17.92 LT.
(5' x 4' x H = 2'-6")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 33 LIN. FT.

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

CALL BEFORE YOU DIG! ARKANSAS ONE CALL 1-800-482-8998 OR 811

SEE GENERAL NOTE 1,
DRAWING G-002 OF THESE PLANS.

NOTES:

1. STATION AND OFFSET SHOWN TO CENTER OF DRAINAGE STRUCTURE (TYP.)
2. EXISTING SANITARY SEWER UTILITIES SHOWN ON THE DRAINAGE PROFILES REPRESENT APPROXIMATE CROSSING ELEVATIONS AT PIPE AND DRAINAGE STRUCTURE LOCATIONS

340 335 330 325 320 315 310 305 300

PROFILE GRADE

EXISTING GRADE AT C.L. CONSTRUCTION

EXISTING 8" SANITARY SEWER (TYP.)

+53.39 RT.
TOP = 319.36
F.L. = 317.00

+68.05 21.00' LT.
TOP = 319.92
F.L. = 316.93

+68.05 13.50' LT.
TOP = 319.47
F.L. = 316.91

+60.00 LT.
TOP = 319.71
F.L. = 317.17

+60.00 RT.
TOP = 319.71
F.L. = 317.26

+91.31 RT.
TOP = 320.97
F.L. = 317.96

+95.93 RT.
TOP = 321.36
F.L. = 318.07

+96.46 LT.
TOP = 321.39
F.L. = 317.72

+26.93 RT.
TOP = 321.35
F.L. = 318.18

+47.50 LT.
TOP = 321.94
F.L. = 318.44

+02.43 RT.
TOP = 321.22
F.L. = 318.73

+17.92 34.63' LT.
TOP = 322.12
F.L. = 318.60

+17.92 17.00' LT.
TOP = 321.34
F.L. = 318.65

+89.00 LT.
TOP = 321.91
F.L. = 318.84

+89.00 RT.
TOP = 321.91
F.L. = 319.00

+89.25 LT.
TOP = 322.70
F.L. = 318.65

43+00 44+00 45+00 46+00 47+00 48+00

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

DRAINAGE PLAN AND PROFILE -
MARKHAM ST.
(SHEET 5 OF 6)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: AEW
DRAWN BY: AEW

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

DRAWING NUMBER
C-705

SHEET NUMBER 52

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STA. 49+14.03 CONSTRUCT
TYPE ST JUNCTION BOX 35.42' LT.
CONNECT TO EXISTING 36" R.C. PIPE
(4' x 5' x H = 5'-4")

STA. 48+85.00 CONSTRUCT
TYPE ST JUNCTION BOX 35.00' LT.
CONNECT TO EXISTING 36" R.C. PIPE
(4' x 5' x H = 4'-11")

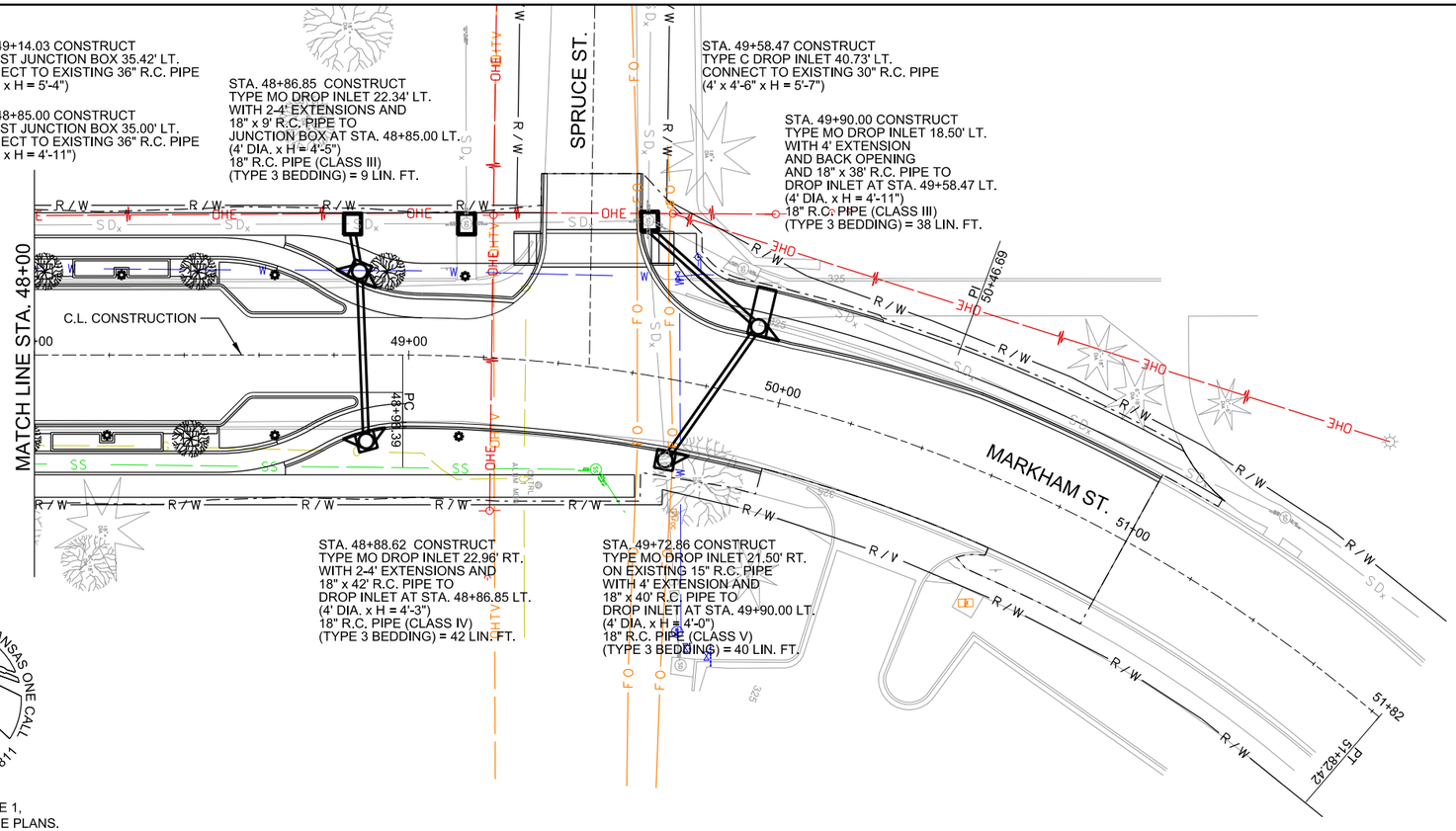
STA. 48+86.85 CONSTRUCT
TYPE MO DROP INLET 22.34' LT.
WITH 2-4' EXTENSIONS AND
18" x 9' R.C. PIPE TO
JUNCTION BOX AT STA. 48+85.00 LT.
(4' DIA. x H = 4'-5")
18" R.C. PIPE (CLASS III)
(TYPE 3 BEDDING) = 9 LIN. FT.

STA. 49+58.47 CONSTRUCT
TYPE C DROP INLET 40.73' LT.
CONNECT TO EXISTING 30" R.C. PIPE
(4' x 4'-6" x H = 5'-7")

STA. 49+90.00 CONSTRUCT
TYPE MO DROP INLET 18.50' LT.
WITH 4' EXTENSION
AND BACK OPENING
AND 18" x 38' R.C. PIPE TO
DROP INLET AT STA. 49+58.47 LT.
(4' DIA. x H = 4'-11")
18" R.C. PIPE (CLASS III)
(TYPE 3 BEDDING) = 38 LIN. FT.

STA. 48+88.62 CONSTRUCT
TYPE MO DROP INLET 22.96' RT.
WITH 2-4' EXTENSIONS AND
18" x 42' R.C. PIPE TO
DROP INLET AT STA. 48+86.85 LT.
(4' DIA. x H = 4'-3")
18" R.C. PIPE (CLASS IV)
(TYPE 3 BEDDING) = 42 LIN. FT.

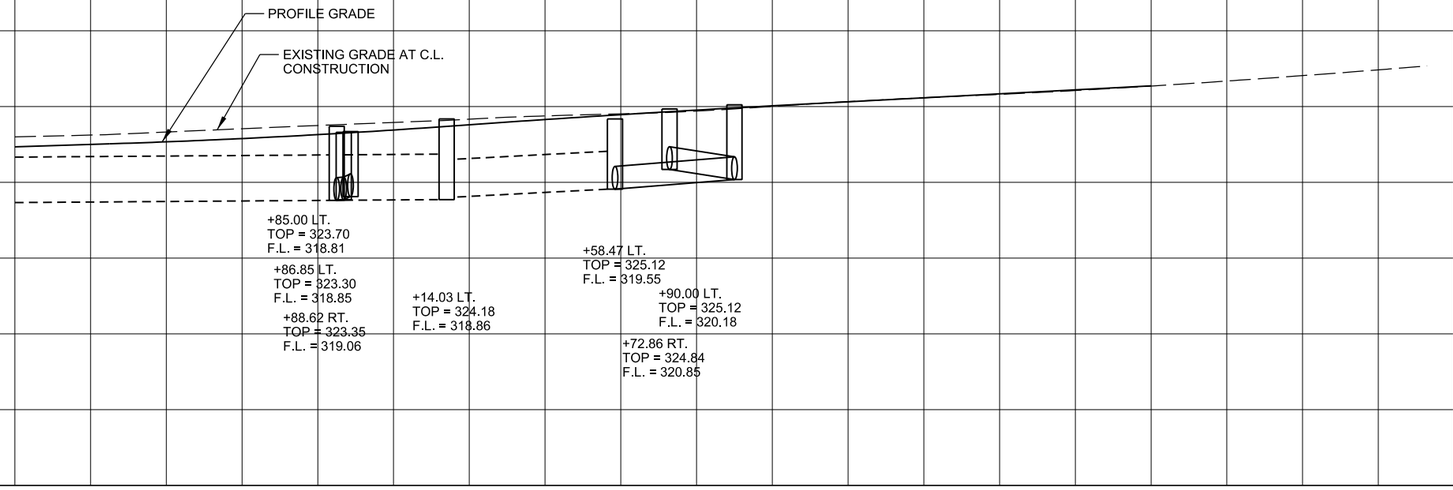
STA. 49+72.86 CONSTRUCT
TYPE MO DROP INLET 21.50' RT.
ON EXISTING 15" R.C. PIPE
WITH 4' EXTENSION AND
18" x 40' R.C. PIPE TO
DROP INLET AT STA. 49+90.00 LT.
(4' DIA. x H = 4'-0")
18" R.C. PIPE (CLASS V)
(TYPE 3 BEDDING) = 40 LIN. FT.



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

CALL BEFORE YOU DIG! ARKANSAS ONE CALL 1-800-482-8998 OR 811

SEE GENERAL NOTE 1,
DRAWING G-002 OF THESE PLANS.



NOTES:

1. STATION AND OFFSET SHOWN TO CENTER OF DRAINAGE STRUCTURE (TYP.)
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FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

DRAINAGE PLAN AND PROFILE -
MARKHAM ST.
(SHEET 6 OF 6)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: AEW
DRAWN BY: AEW

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

DRAWING NUMBER
C-706

SHEET NUMBER **53**

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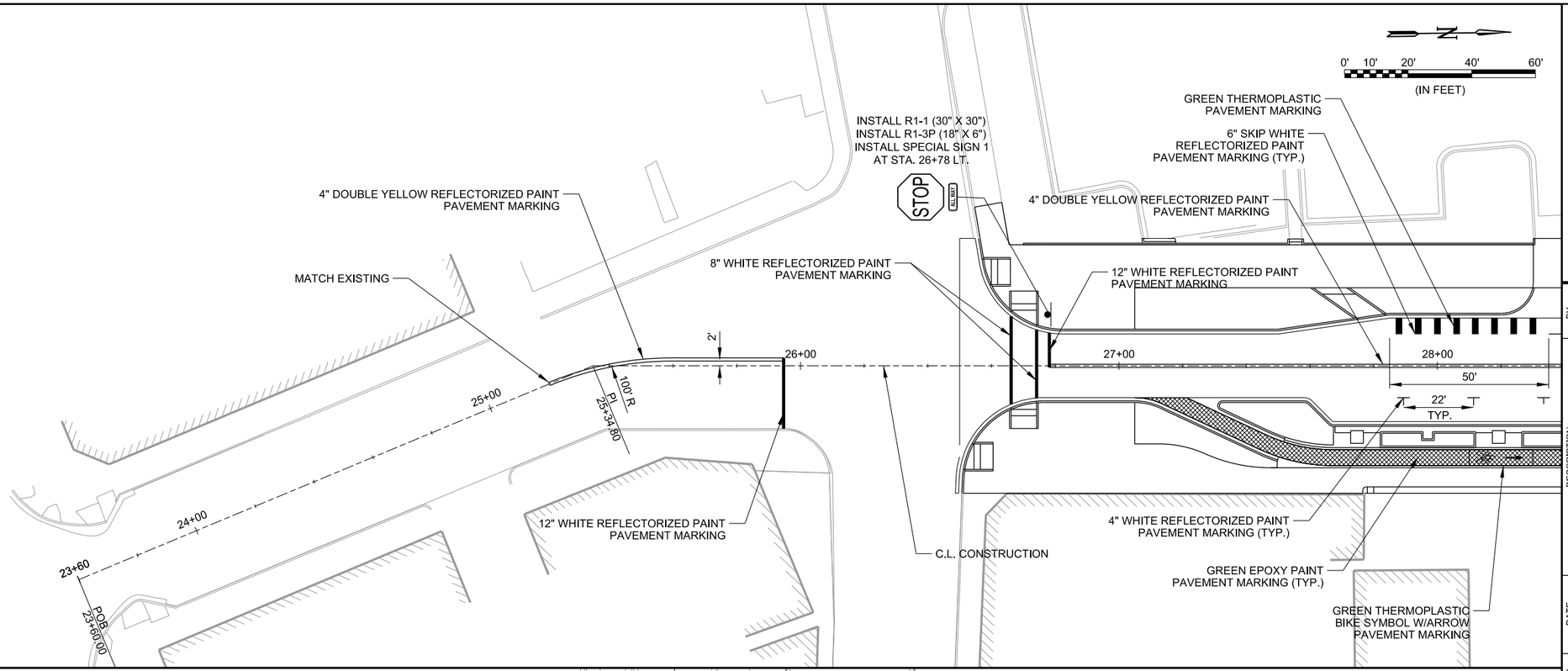
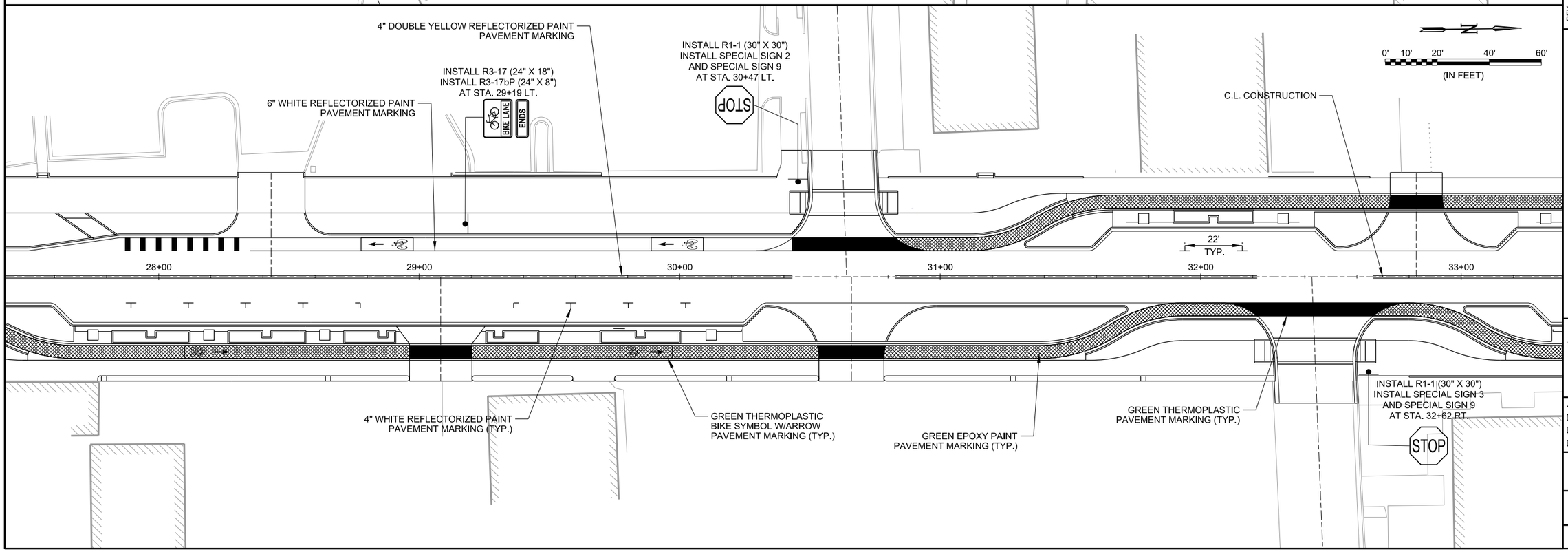
FINAL PLANS
NOT FOR CONSTRUCTION





REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

PAVEMENT MARKING AND SIGNING PLANS
(SHEET 1 OF 3)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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DRAWING NUMBER
C-801

SHEET NUMBER **54**

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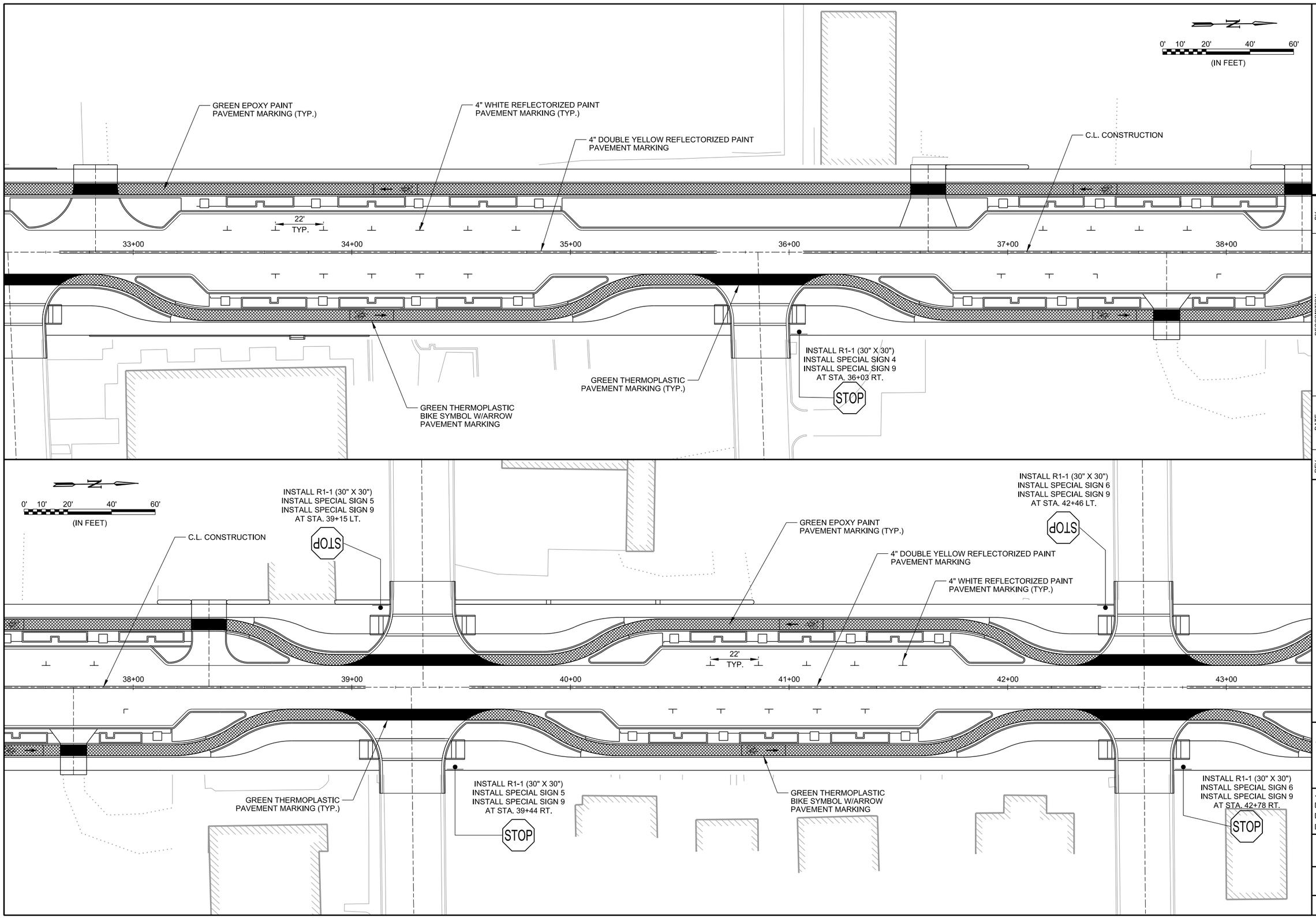

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

PAVEMENT MARKING
AND SIGNING PLANS
(SHEET 2 OF 3)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

BAR IS ONE INCH ON
ORIGINAL DRAWING
0 1"
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ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-802

SHEET
NUMBER **55**

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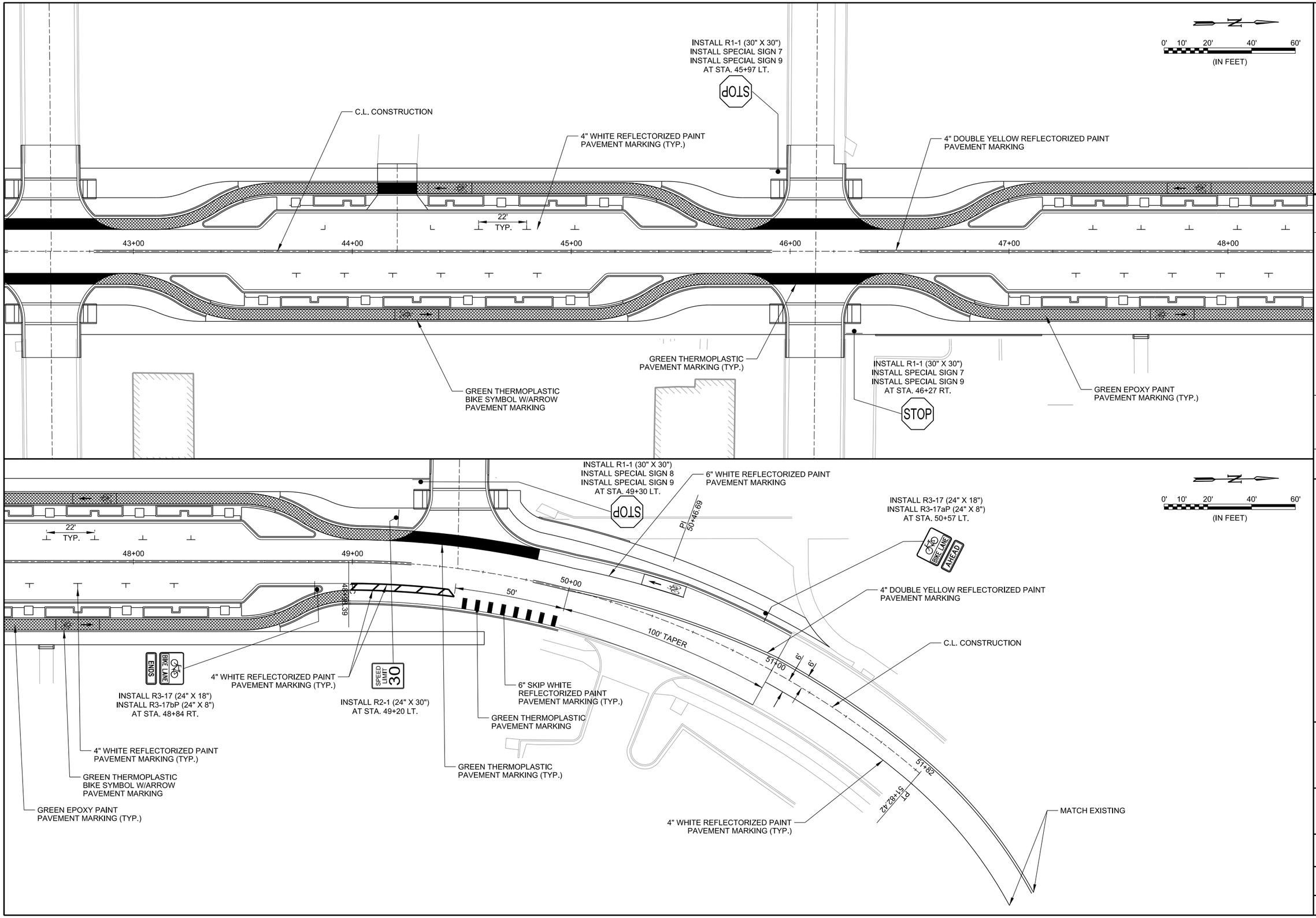

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

PAVEMENT MARKING
AND SIGNING PLAN
(SHEET 3 OF 3)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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

DRAWING NUMBER
C-803

SHEET
NUMBER **56**

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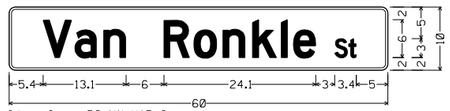

Identifier : D3-1(1)_VARx8*;
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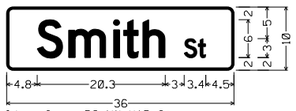
[Van Ronkle] D 2K;[St] D 2K;

SPECIAL SIGN 1



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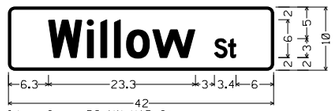
[Smith] D 2K;[St] D 2K;

SPECIAL SIGN 2

Identifier : D3-1(1)_VARx8*;
1.0" Radius, 0.4" Border, White on Green;
[Garland] D 2K;[St] D 2K;

SPECIAL SIGN 3



Identifier : D3-1(1)_VARx8*;
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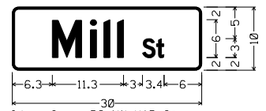
[Willow] D 2K;[St] D 2K;

SPECIAL SIGN 4



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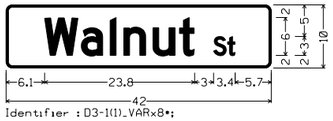
1.0" Radius, 0.4" Border, White on Green;
[Mill] D 2K;[St] D 2K;

SPECIAL SIGN 5



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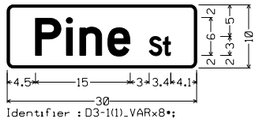
[Walnut] D 2K;[St] D 2K;

SPECIAL SIGN 6



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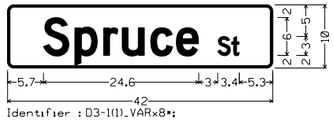
1.0" Radius, 0.4" Border, White on Green;
[Pine] D 2K;[St] D 2K;

SPECIAL SIGN 7



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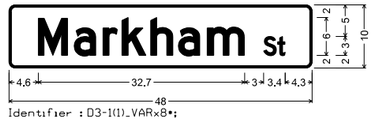
1.0" Radius, 0.4" Border, White on Green;
[Spruce] D 2K;[St] D 2K;

SPECIAL SIGN 8



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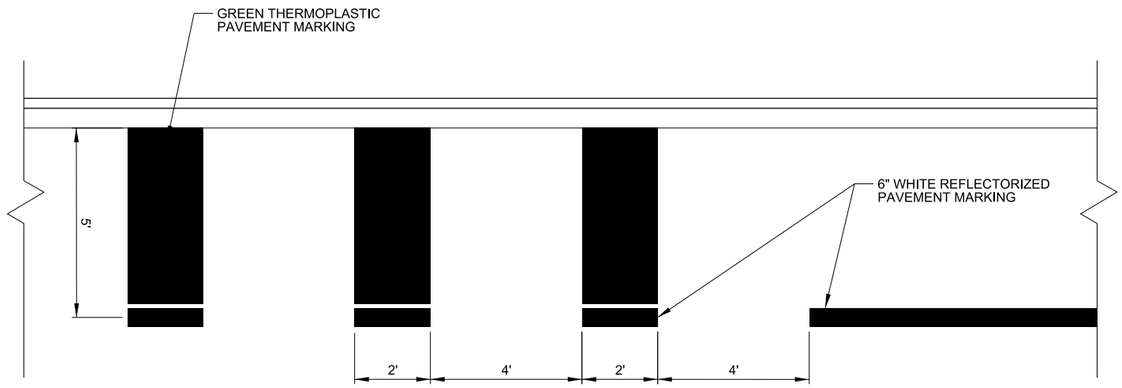
[Markham] D 2K;[St] D 2K;

SPECIAL SIGN 9



END BIKE LANE PAVEMENT MARKING DETAIL

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

PAVEMENT MARKING
AND SIGNING DETAILS

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: MJM

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

DRAWING NUMBER
C-804

SHEET
NUMBER **57**

dlt
3/8/2018 8:41:10 AM
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ELECTRICAL SYMBOLS LEGEND

●	NEW POLE FOUNDATION. LUMINAIRE AND POLE TO BE INSTALLED BY CONWAY CORPORATION. SEE NOTES, PLANS AND SCHEDULES FOR MORE INFORMATION.
PB	PULLBOX, SIZE AS NOTED IN PLANS AND DETAILS.
SP	SERVICE POINT, REFER TO ONE-LINE DIAGRAMS FOR MORE INFORMATION.
———	CONDUIT & WIRE AS NOTED IN NOTES AND IN SCHEDULES.
⏚	3/4" x 10' COPPER CLAD GROUND ROD.
PEC	WATERPROOF PHOTOELECTRIC CONTROL
M	METER SOCKET, METER TO BE PROVIDED BY CONWAY CORPORATION
⏚	LIGHTING CONTACTOR
SPD	SURGE PROTECTIVE DEVICE WITH INDICATING LIGHTS
20A/1P	CIRCUIT BREAKER, TRIP RATING AND POLE NUMBER SHOWN
	20 AMP DUPLEX RECEPTACLE, WITH GROUND WIRE

ABBREVIATIONS

A	AMP
AIC	AMPS INTERRUPTING CAPACITY
AUX	AUXILIARY
BKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CGRS	PVC COATED GALVANIZED RIGID STEEL
DEB	DIRECT EARTH BURIED
EC	EMPTY OR EMBEDDED CONDUIT
EG	EQUIPMENT GROUND
EMT	ELECTRICAL METALLIC TUBING
FDS	FUSED DISCONNECT SWITCH
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRS	GALVANIZED RIGID STEEL
HOA	HAND-OFF-AUTO
HR	HOUR
JB	JUNCTION BOX
kVA	KILOVOLT-AMPERE
kVAR	KILOVOLT-AMPERE, REACTIVE
kW	KILOWATT
LO	LUGS ONLY
LOR	LOCAL-OFF-REMOTE
LSI	LONG, SHORT, INSTANTANEOUS
LSIG	LONG, SHORT, INSTANTANEOUS, GROUND
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
N	NEUTRAL
PEC	PHOTO ELECTRIC CELL
PNL	PANEL
PVC	SCHEDULE 40 POLYVINYL CONDUIT
RECPT	RECEPTACLE
SE	SERVICE ENTRANCE
SN	SOLID NEUTRAL
SPD	SURGE PROTECTIVE DEVICE
SS	STAINLESS STEEL
STA	STATION
SW	SWITCH
TC	TIME CLOCK
TR	TAMPER RESISTANT
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UGP	UNDERGROUND PRIMARY
UGS	UNDERGROUND SECONDARY
UON	UNLESS OTHERWISE NOTED
V	VOLT
VA	VOLT-AMP
WP	WEATHERPROOF
XFMR	TRANSFORMER

GENERAL NOTES:

1. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET BUT NOT BE UTILIZED ON THE PROJECT.
2. LIGHTING LEGEND SHOWS EXAMPLE IDENTIFIERS, REFER TO LIGHT FIXTURE SCHEDULE FOR SPECIFIC REQUIREMENTS.
3. ALL PARTS OF THIS INSTALLATION SHALL BE IN ACCORDANCE WITH THE ARKANSAS DEPARTMENT OF TRANSPORTATION STANDARDS AND DETAILS, AND WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITIONS.
4. CONDUIT INSTALLED UNDER ROADWAY SECTIONS SHALL BE INSTALLED BY PUSHING OR BORING METHODS. IF THE ENGINEER DETERMINEES THIS IS NOT FEASIBLE, THEN A TRENCHING METHOD MAY BE USED.
5. CONTRACTOR MAY USE HDPE OR PVC FOR BORING. SECTIONAL PVC SHALL BE UL LISTED AND MARKED FOR USE IN DIRECTIONAL BORING.

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

ELECTRICAL LEGEND

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: NAH
DRAWN BY: CJH

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

DRAWING NUMBER
E-001

SHEET NUMBER **58**

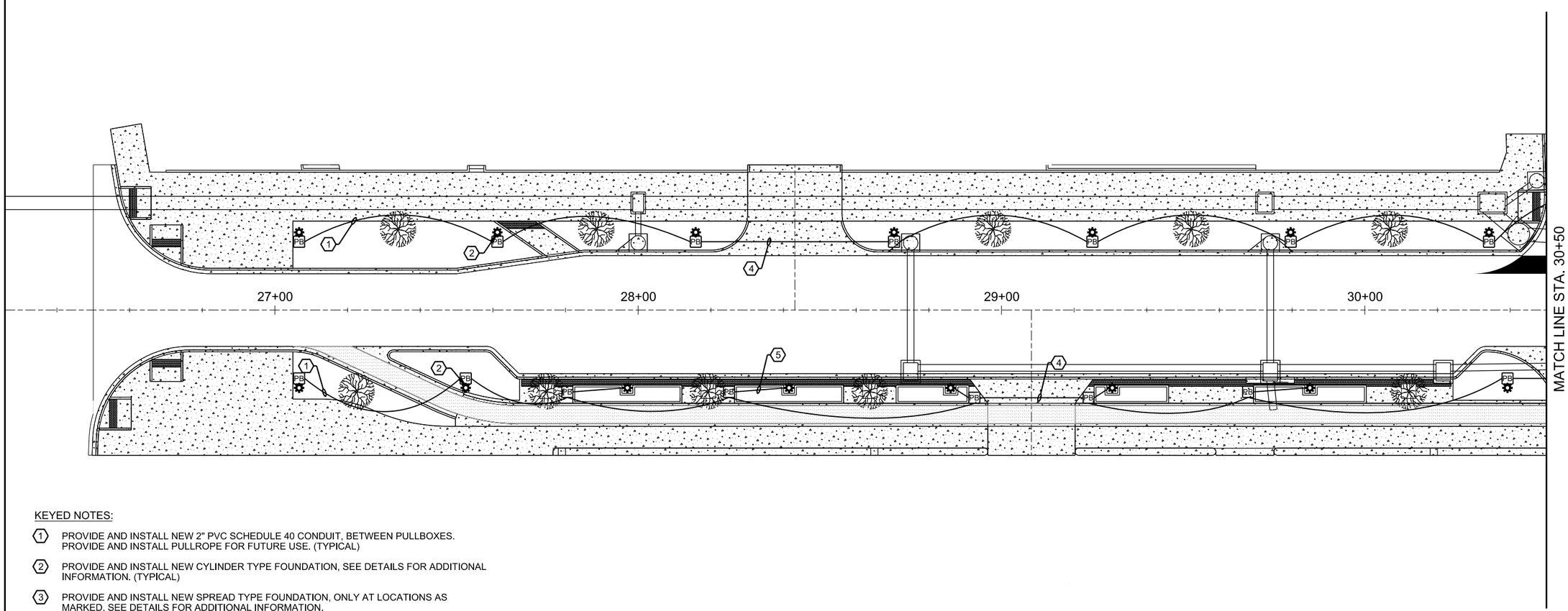
GENERAL NOTES:

1. LIGHTING POLES, LUMINAIRES, AND WIRING SHALL BE PROVIDED AND INSTALLED BY CONWAY CORPORATION.
2. LIGHTING SHALL BE CONNECTED TO NEW SERVICE POINTS FOR CONTROLS AND POWER, COORDINATE FINAL LOCATIONS WITH ENGINEER AND UTILITY.
3. COORDINATE ALL WORK WITH THE ROADWAY, LANDSCAPING, AND IRRIGATION PLANS. CONDUIT ROUTING AS SHOWN IS APPROXIMATE WITH THE INTENT OF AVOIDING LANDSCAPING AND DRAINAGE SYSTEMS. CONTRACTOR SHALL COORDINATE LOCATION AND ROUTING OF CONDUIT WITH ENGINEER SUCH THAT THERE ARE MINIMUM CONFLICTS.
4. EXPOSED CONDUIT SHALL BE COATED GALVANIZED RIGID STEEL. CONDUIT BURIED IN EARTH SHALL BE SCHEDULE 40 PVC. CONDUIT BURIED BELOW ROADWAY AND DRIVEWAYS SHALL BE SCHEDULE 80 PVC.
5. PROVIDE PULLROPE WITH SUITABLE SLACK THROUGH ALL HANDHOLES, JUNCTION BOXES, AND PULLBOXES. (TYPICAL)

N

0' 15' 30' 45'

(IN FEET)



KEYED NOTES:

1. PROVIDE AND INSTALL NEW 2" PVC SCHEDULE 40 CONDUIT, BETWEEN PULLBOXES. PROVIDE AND INSTALL PULLROPE FOR FUTURE USE. (TYPICAL)
2. PROVIDE AND INSTALL NEW CYLINDER TYPE FOUNDATION, SEE DETAILS FOR ADDITIONAL INFORMATION. (TYPICAL)
3. PROVIDE AND INSTALL NEW SPREAD TYPE FOUNDATION, ONLY AT LOCATIONS AS MARKED, SEE DETAILS FOR ADDITIONAL INFORMATION.
4. PROVIDE AND INSTALL NEW 2" PVC SCHEDULE 80 CONDUIT, BETWEEN PULLBOXES. PROVIDE AND INSTALL PULLROPE FOR FUTURE USE.
5. PROVIDE AND INSTALL NEW 1-1/2" PVC SCHEDULE 40 CONDUIT FROM PULLBOX TO POLE FOUNDATION, SEE DETAILS FOR ADDITIONAL INFORMATION. (TYPICAL)
6. PROVIDE AND INSTALL NEW GFCI/WP RECEPTACLE CO-LOCATED WITHIN NEW IRRIGATION BACKFLOW PREVENTER ENCLOSURE. REFER TO IRRIGATION PLANS FOR ADDITIONAL INFORMATION.
7. PROVIDE AND INSTALL NEW POWER SERVICE PEDESTAL, MILBANK STYLE OR APPROVED EQUAL. REFER TO ONE-LINE DIAGRAMS AND DETAILS FOR ADDITIONAL INFORMATION.

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

ELECTRICAL
INFRASTRUCTURE
PLAN (SHEET 1 OF 6)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: NAH
DRAWN BY: CJH

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

DRAWING NUMBER
E-201

SHEET NUMBER **59**

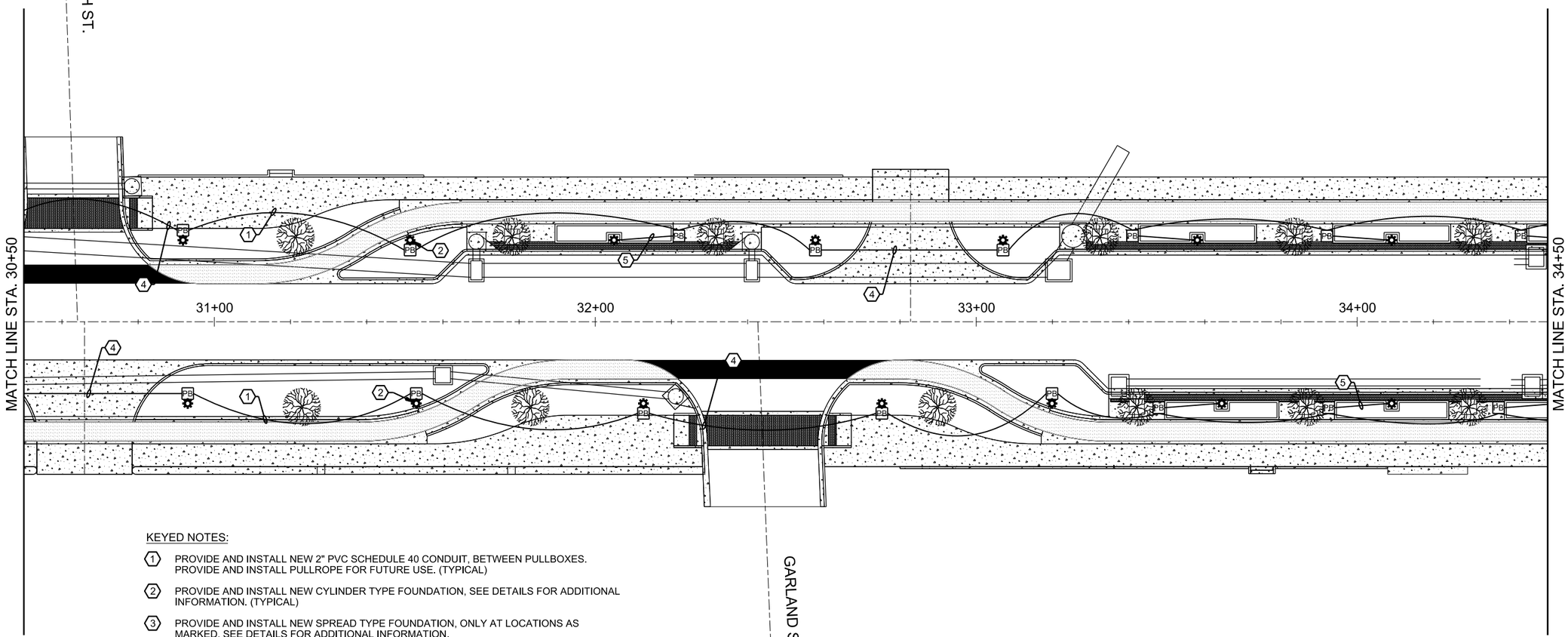
GENERAL NOTES:

1. LIGHTING POLES, LUMINAIRES, AND WIRING SHALL BE PROVIDED AND INSTALLED BY CONWAY CORPORATION.
2. LIGHTING SHALL BE CONNECTED TO NEW SERVICE POINTS FOR CONTROLS AND POWER, COORDINATE FINAL LOCATIONS WITH ENGINEER AND UTILITY.
3. COORDINATE ALL WORK WITH THE ROADWAY, LANDSCAPING, AND IRRIGATION PLANS. CONDUIT ROUTING AS SHOWN IS APPROXIMATE WITH THE INTENT OF AVOIDING LANDSCAPING AND DRAINAGE SYSTEMS. CONTRACTOR SHALL COORDINATE LOCATION AND ROUTING OF CONDUIT WITH ENGINEER SUCH THAT THERE ARE MINIMUM CONFLICTS.
4. EXPOSED CONDUIT SHALL BE COATED GALVANIZED RIGID STEEL. CONDUIT BURIED IN EARTH SHALL BE SCHEDULE 40 PVC. CONDUIT BURIED BELOW ROADWAY AND DRIVEWAYS SHALL BE SCHEDULE 80 PVC.
5. PROVIDE PULLROPE WITH SUITABLE SLACK THROUGH ALL HANDHOLES, JUNCTION BOXES, AND PULLBOXES. (TYPICAL)

N

0' 15' 30' 45'

(IN FEET)



KEYED NOTES:

1. PROVIDE AND INSTALL NEW 2" PVC SCHEDULE 40 CONDUIT, BETWEEN PULLBOXES. PROVIDE AND INSTALL PULLROPE FOR FUTURE USE. (TYPICAL)
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3. PROVIDE AND INSTALL NEW SPREAD TYPE FOUNDATION, ONLY AT LOCATIONS AS MARKED, SEE DETAILS FOR ADDITIONAL INFORMATION.
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7. PROVIDE AND INSTALL NEW POWER SERVICE PEDESTAL, MILBANK STYLE OR APPROVED EQUAL. REFER TO ONE-LINE DIAGRAMS AND DETAILS FOR ADDITIONAL INFORMATION.

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

ELECTRICAL INFRASTRUCTURE PLAN (SHEET 2 OF 6)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: NAH
DRAWN BY: CJH

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

DRAWING NUMBER
E-202

SHEET NUMBER **60**

dtackett 3/8/2018 8:53:09 AM
WORKSPACE:Garver_2012
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GENERAL NOTES:

1. LIGHTING POLES, LUMINAIRES, AND WIRING SHALL BE PROVIDED AND INSTALLED BY CONWAY CORPORATION.
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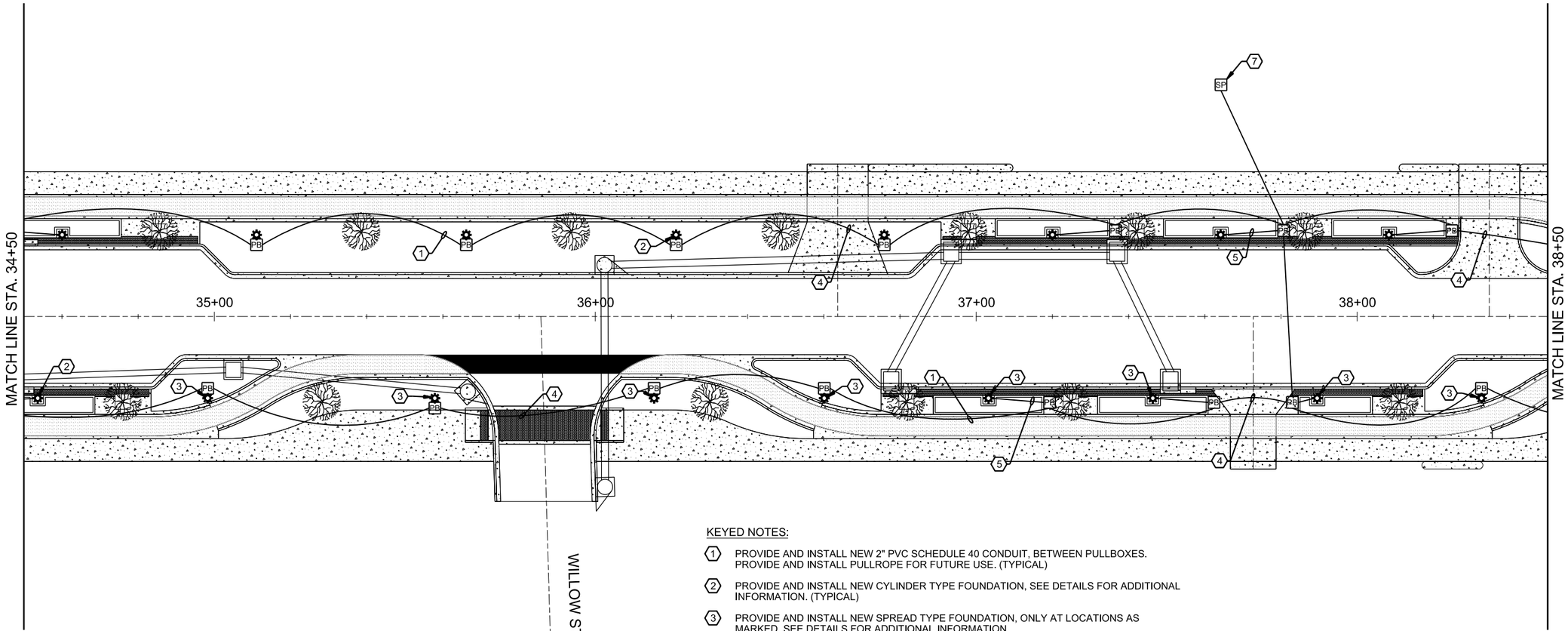
5. PROVIDE PULLROPE WITH SUITABLE SLACK THROUGH ALL HANDHOLES, JUNCTION BOXES, AND PULLBOXES. (TYPICAL)

N

0' 15 30 45

(IN FEET)



KEYED NOTES:

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FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

ELECTRICAL INFRASTRUCTURE PLAN (SHEET 3 OF 6)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: NAH
DRAWN BY: CJH

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

DRAWING NUMBER
E-203

SHEET NUMBER **61**

dtackett 3/8/2018 8:53:16 AM
WORKSPACE:Server_2012
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GENERAL NOTES:

1. LIGHTING POLES, LUMINAIRES, AND WIRING SHALL BE PROVIDED AND INSTALLED BY CONWAY CORPORATION.
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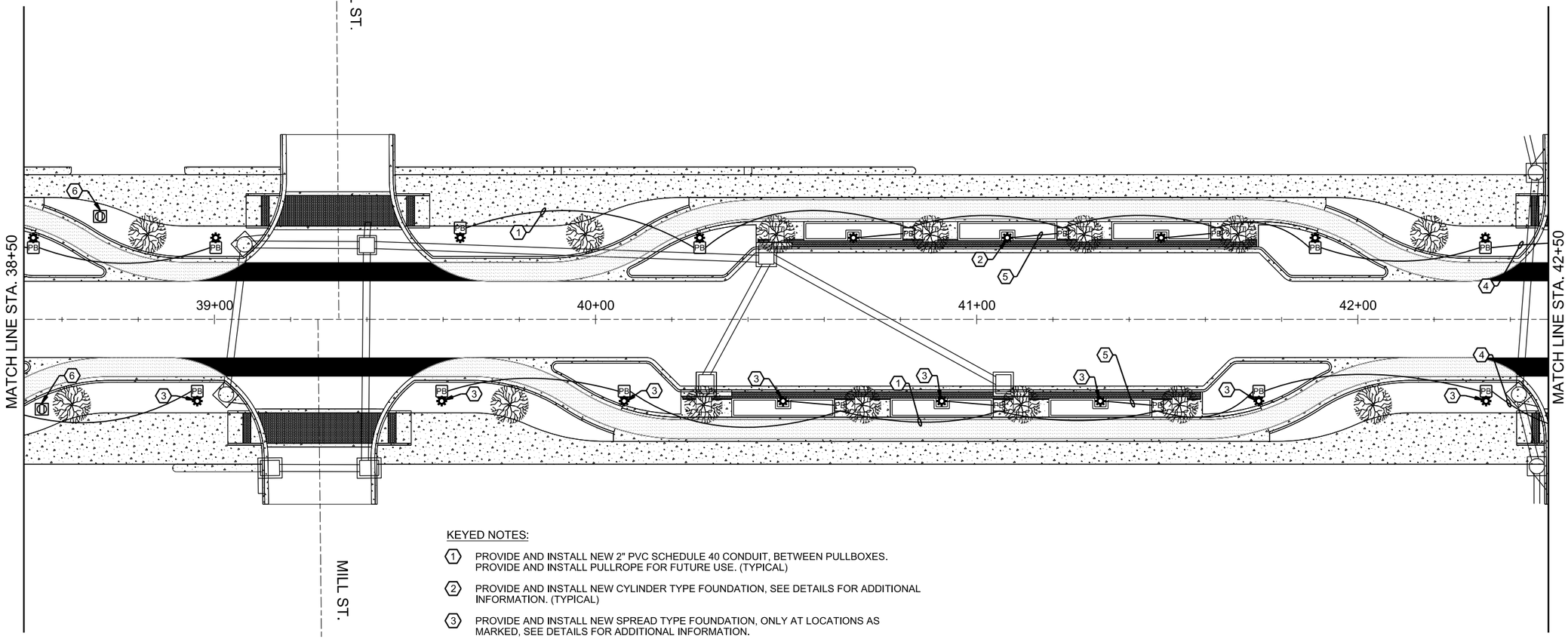

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N

0' 15 30 45
(IN FEET)

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

ELECTRICAL INFRASTRUCTURE PLAN (SHEET 4 OF 6)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: NAH
DRAWN BY: CJH

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

DRAWING NUMBER
E-204

SHEET NUMBER **62**

GENERAL NOTES:

1. LIGHTING POLES, LUMINAIRES, AND WIRING SHALL BE PROVIDED AND INSTALLED BY CONWAY CORPORATION.
2. LIGHTING SHALL BE CONNECTED TO NEW SERVICE POINTS FOR CONTROLS AND POWER, COORDINATE FINAL LOCATIONS WITH ENGINEER AND UTILITY.
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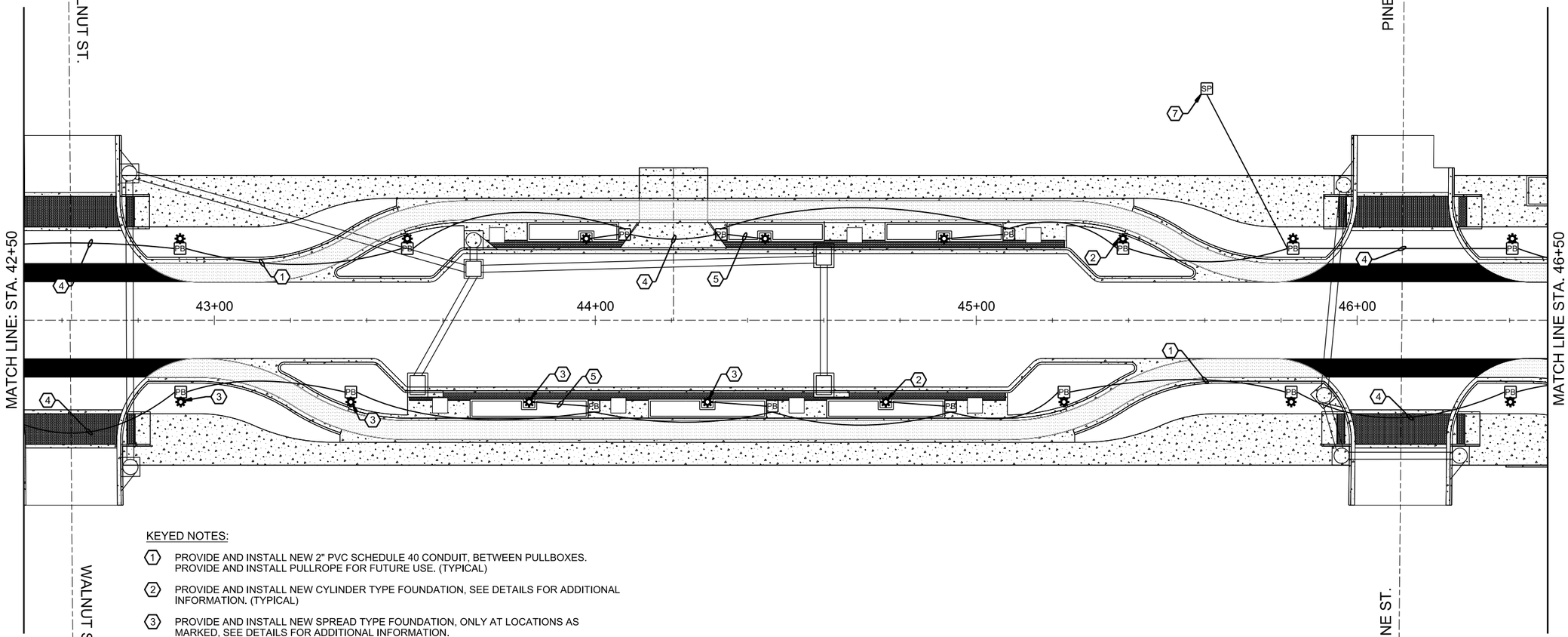

KEYED NOTES:

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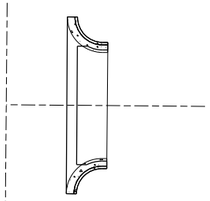

N

0' 15 30 45
(IN FEET)

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

ELECTRICAL INFRASTRUCTURE PLAN (SHEET 5 OF 6)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: NAH
DRAWN BY: CJH

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0 1"
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DRAWING NUMBER
E-205

SHEET NUMBER **63**

GENERAL NOTES:

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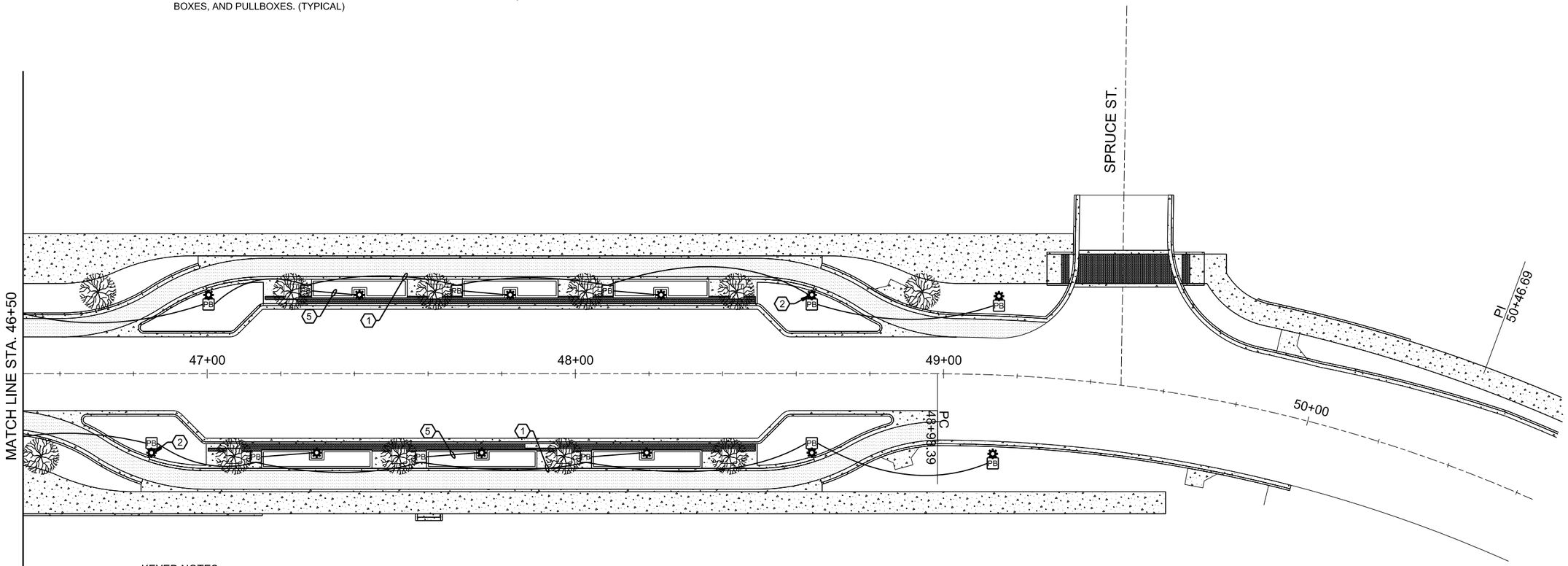
(IN FEET)



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FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

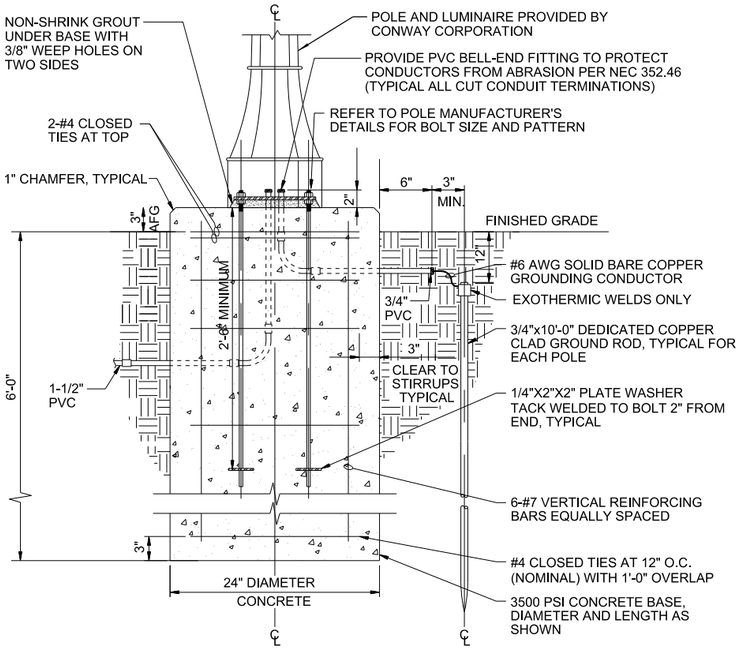
ELECTRICAL INFRASTRUCTURE PLAN (SHEET 6 OF 6)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: NAH
DRAWN BY: CJH

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

DRAWING NUMBER
E-206

SHEET NUMBER **64**

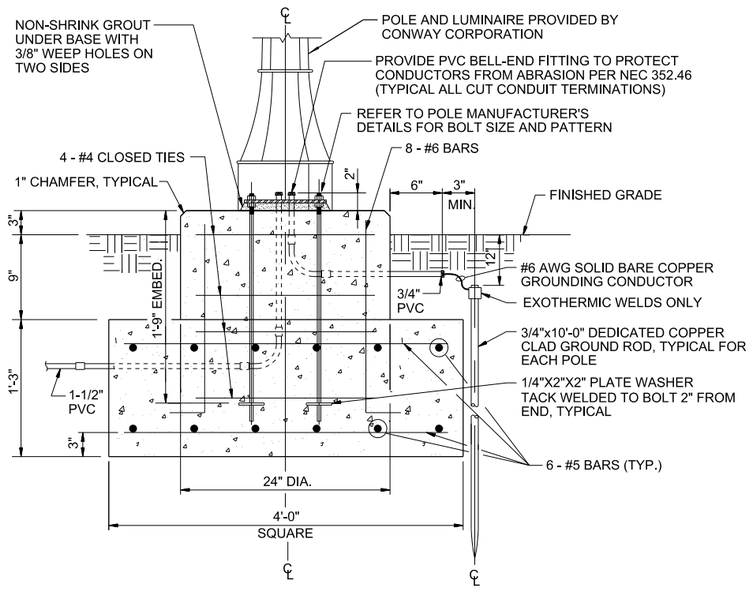


CYLINDER TYPE POLE BASE DETAIL - TYPICAL SECTION VIEW

SCALE: NONE

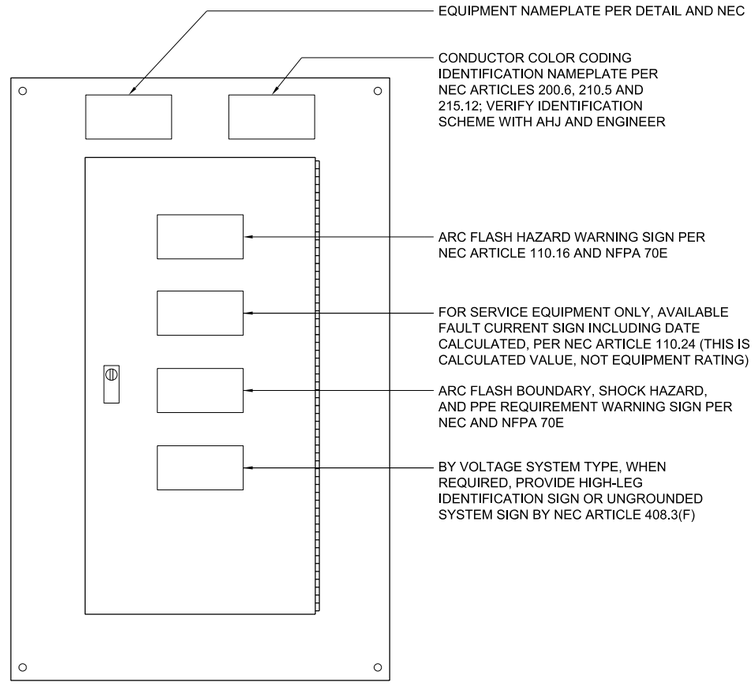
NOTES:

1. ALL HARDWARE SHALL BE CORROSION RESISTANT, GALVANIZED RIGID STEEL.
2. CONSTRUCT FOUNDATION IN ACCORDANCE WITH POLE MANUFACTURER'S GUIDELINES, INSTALLING BOLT TEMPLATE LEVELING UNIT, ANCHOR BOLTS, FULL BASE-PLATE BOLT COVER, AND ACCESSORIES FOR A COMPLETE INSTALLATION. COORDINATE WITH CONWAY CORPORATION FOR POLE MANUFACTURER'S DATA AS REQUIRED.
3. USE LONG SWEEP 90 DEGREE ELBOWS ON ALL CONDUIT BENDS.
4. PROVIDE NEW INSULATED GROUNDING BUSHING, BONDED TO DEDICATED #6 AWG ALUMINUM GROUND WIRE FOR EACH POLE FOUNDATIONS GROUND ROD. COORDINATE WITH CONWAY CORPORATION ON FINAL CONNECTIONS OF GROUNDING BUSHINGS AND OTHER ITEMS TO POLE GROUND ROD.
5. MINIMUM 2'-0" CLEAR FROM EDGE OF TRAIL OR SIDEWALK TO CLOSEST EDGE OF ROADLIGHTING POLE FOUNDATION.
6. WHERE POLE FOUNDATION IS ON A SLOPED SURFACE PROVIDE 1' FLAT GRADE EARTH BEFORE RETURNING TO SLOPE. COORDINATE WITH ROADWAY PLANS.



SPREAD TYPE POLE FOOTING DETAIL - TYPICAL SECTION VIEW

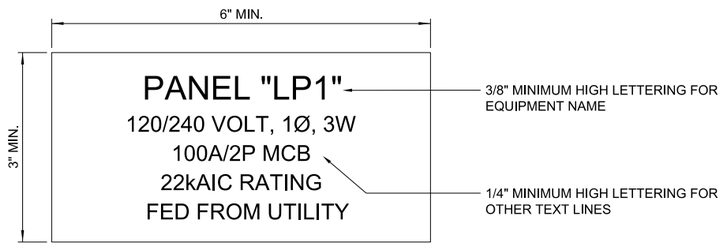
SCALE: NONE



PANEL FRONT VIEW

GENERAL NOTES:

1. INSTALL ALL NAMEPLATES AND WARNING SIGNS IN ACCORDANCE WITH NEC AND NFPA 70E REQUIREMENTS.
2. INSTALL NAMEPLATES AND WARNING SIGNS ON ALL ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, SWITCHES, CONTROL PANELS, AND MOTOR CONTROL CENTERS.
3. EXTERIOR EQUIPMENT SHALL HAVE WEATHER-RESISTANT, NON-FADING NAMEPLATES AND SIGNAGE.
4. REFER TO SPECIFICATIONS FOR ADDITIONAL NAMEPLATE AND SIGNAGE REQUIREMENTS.



EQUIPMENT NAMEPLATE NOTES:

1. INSTALL 2-PLEX ACRYLIC, WHITE ON BLACK CORE, MULTIPLE LINES TEXT, CUSTOM ENGRAVED NAME PLATES.
2. MOUNT WITH STAINLESS STEEL SCREWS.
3. SEAL SCREW HOLES WITH SILICONE RUBBER.
4. NAMEPLATE INFORMATION SHALL INCLUDE:
   A. IDENTIFICATION NAME
   B. VOLTAGE SYSTEM
   C. AMPACITY RATING AND TYPE
   D. EQUIPMENT AIC RATING
   E. FEEDER DESCRIPTION

TYPICAL ENGRAVED NAMEPLATE AND SIGNAGE DETAIL

SCALE: NONE

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

ELECTRICAL DETAILS
(SHEET 1 OF 2)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: NAH
DRAWN BY: CJH

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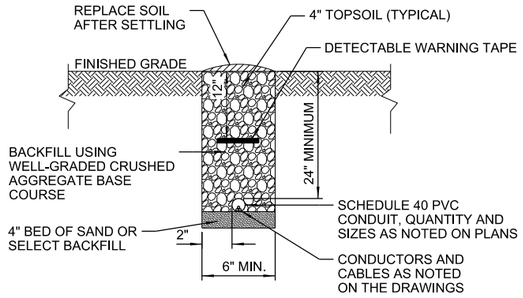
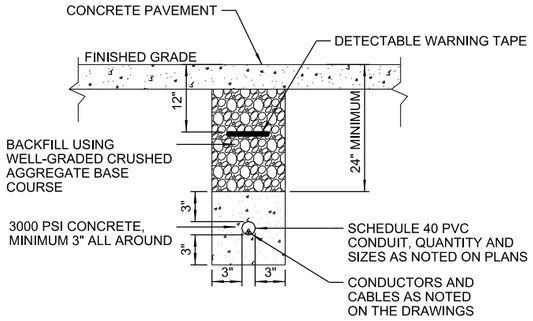
SHEET NUMBER **65**



NON-ENCASED DUCT DETAIL

SCALE: NONE



CONCRETE ENCASED DUCT DETAIL (NON-VEHICULAR)

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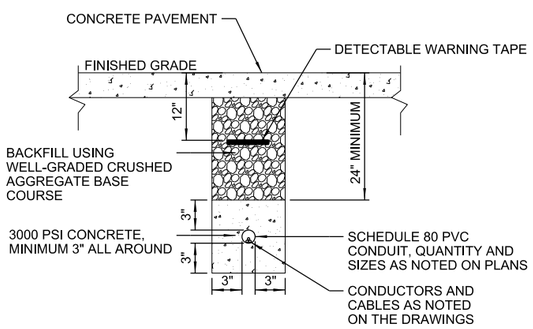

CONCRETE ENCASED DUCT DETAIL (VEHICULAR)

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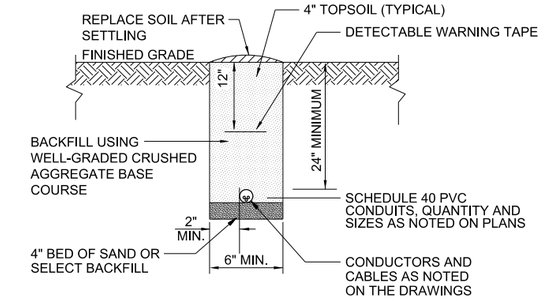


NON-ENCASED ELECTRICAL DUCT DETAILS

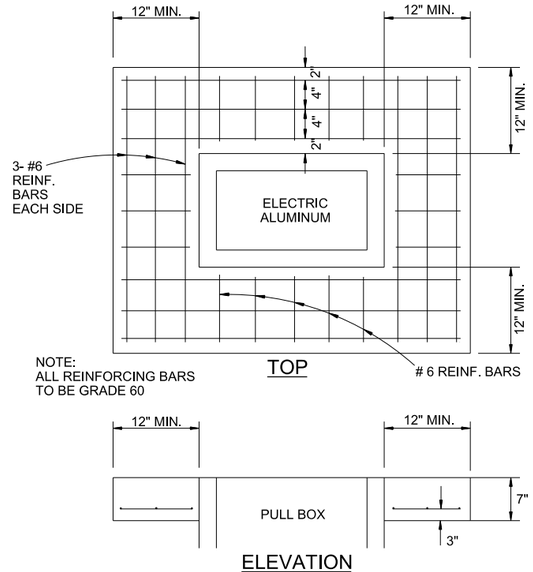
SCALE: NONE

GENERAL NOTES:

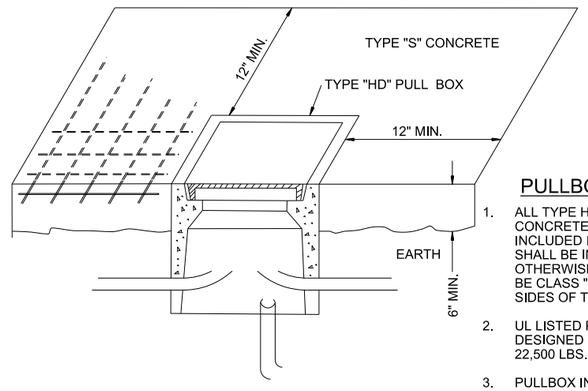
1. POWER MARKING TAPES SHALL BE DETECTABLE TYPE CONSTRUCTION WITH RED BACKGROUND AND BLACK LETTERING.
2. COMMUNICATION MARKING TAPES SHALL BE DETECTABLE TYPE CONSTRUCTION WITH ORANGE BACKGROUND AND BLACK LETTERING, "TELEPHONE LINE" OR "FIBER OPTIC LINE" RESPECTIVELY.
3. TAPE SHALL BE DETECTABLE, DURABLE, HIGHLY VISIBLE, RESISTANT TO ELEMENTS, MEETING AND / OR EXCEEDING ALL INDUSTRY STANDARDS.

UNDERGROUND DETECTABLE WARNING TAPE

SCALE: NONE



ELEVATION



ISOMETRIC

CONCRETE PULL BOX (TYPE SPECIAL HD) DETAIL

SCALE: NONE

PULLBOX NOTES:

1. ALL TYPE HD PULL BOXES ARE INSTALLED WITH AN APRON OF CONCRETE 12" WIDE AND 6" IN DEPTH. ALL PAYMENT SHALL BE INCLUDED IN THE PRICE OF THE TYPE HD PULL BOX. PULL BOX SHALL BE INSTALLED FLUSH TO SURROUNDING GRADE UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER. THE CONCRETE SHALL BE CLASS "S." THREE #6 REINFORCING BARS IN THE APRON ON ALL SIDES OF THE PULL BOX ARE REQUIRED IN CONCRETE.
2. UL LISTED PULLBOX AND EXTRA HEAVY-DUTY COVER SHALL BE DESIGNED FOR A TEST LOAD OF 33,750 LBS AND A DESIGN LOAD OF 22,500 LBS.
3. PULLBOX INTERIOR DIMENSIONS SHALL BE 18"L x 24"W x 18"D (OPEN BOTTOM).
4. PROVIDE MINIMUM 3' SLACK CABLE LOOP FOR EACH CABLE.
5. COLOR CODE, TAG AND IDENTIFY ALL CABLES IN UL LISTED PULLBOX.
6. EXACT LOCATION OF EACH UL LISTED PULLBOX SHALL BE APPROVED BY CONWAY CORPORATION AND ENGINEER PRIOR TO INSTALLATION.

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
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METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

ELECTRICAL DETAILS
(SHEET 2 OF 2)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: NAH
DRAWN BY: CJH

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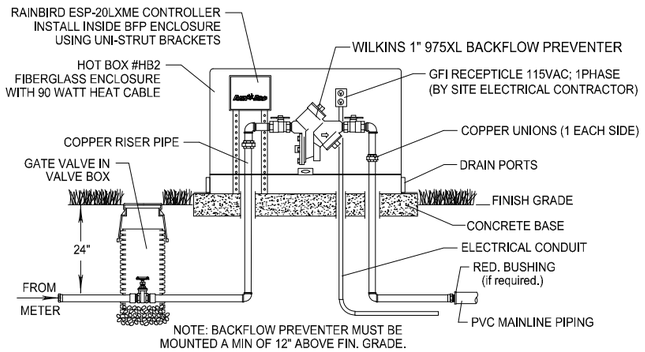
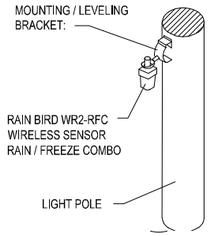
DRAWING NUMBER
E-502

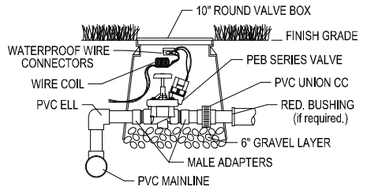
SHEET NUMBER **66**



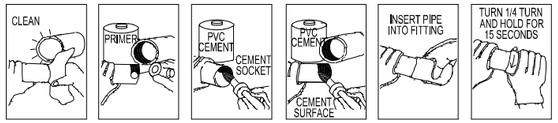
1 INSTALLATION DETAIL
RP-TYPE BFP / IRRIGATION CONTROLLER



2 INSTALLATION DETAIL
RAIN / FREEZE SENSOR

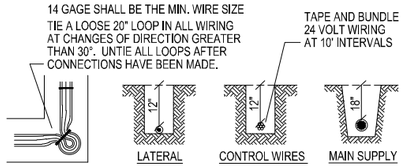


3 INSTALLATION DETAIL
ZONE VALVE ASSEMBLY



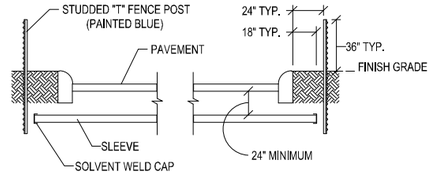
NOTES:
NEVER LAY PVC PIPE WHEN THERE IS WATER IN THE TRENCH
NEVER LAY PVC PIPE WHEN THE TEMPERATURE IS 32°F OR BELOW

4 INSTALLATION DETAIL
PVC ASSEMBLING

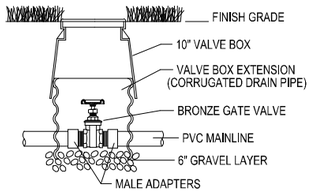


NOTES: BACKFILL MATERIAL SHALL BE FREE FROM ROCKS OR HEAVY UNSUITABLE SUBSTANCES WHICH COULD DAMAGE THE PIPE OR CREATE UNUSUAL SETTLING PROBLEMS. BACKFILL SHALL BE DONE IN SIX INCH LAYERS AND TAMPED DOWN AFTER EACH LAYER IS PUT BACK TO PREVENT EXCESSIVE SETTLING.

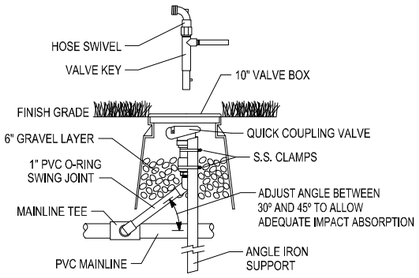
5 INSTALLATION DETAIL
MAINLINE, LATERAL & WIRING



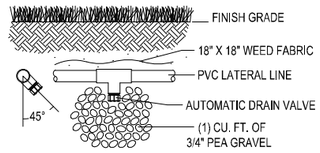
6 INSTALLATION DETAIL
TYPICAL SLEEVING



7 INSTALLATION DETAIL
ISOLATION GATE VALVE

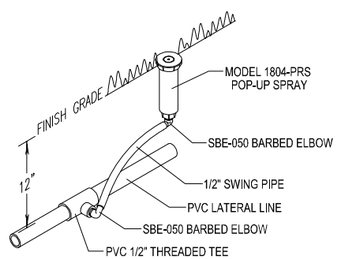


8 INSTALLATION DETAIL
QUICK COUPLING VALVE

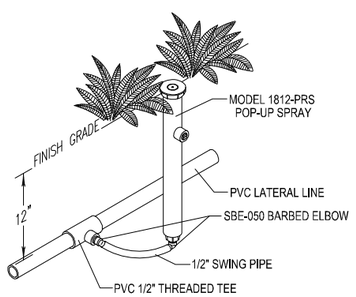


(NOT SHOWN ON PLAN-
INSTALL IN LOW AREAS AS NEEDED)

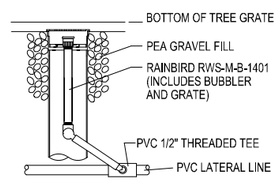
9 INSTALLATION DETAIL
AUTOMATIC DRAIN VALVE



10 INSTALLATION DETAIL
4" POP-UP TURF SPRAY



11 INSTALLATION DETAIL
12" POP-UP SHRUB SPRAY



INSTALL 2 PER TREE ON
OPPOSITE SIDES OF ROOTBALL.

12 INSTALLATION DETAIL
ROOT WATERING SYSTEM

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

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LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

IRRIGATION DETAILS

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: MDL
DRAWN BY: MDL

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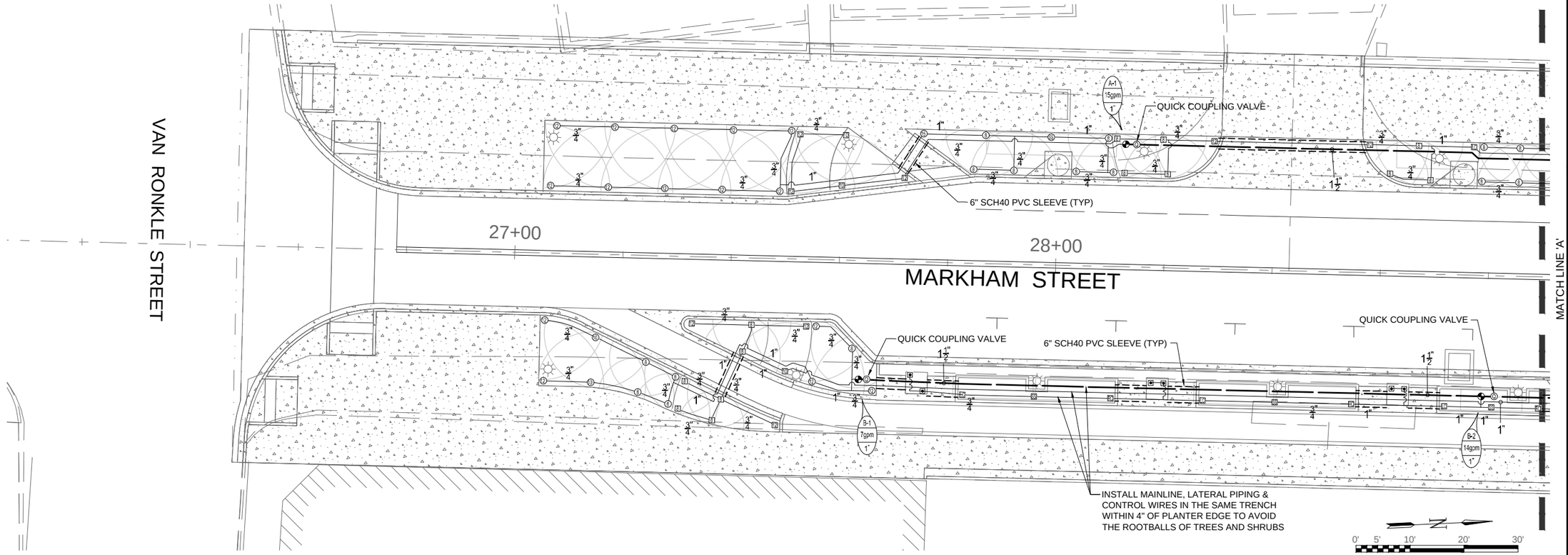
DRAWING NUMBER
I-101

SHEET NUMBER 67

$$USER$$ $$DATE$$ $$TIME$$
WORKSPACE: $$WORKSPACE$$
$$FILE$$



SLEEVING / BORING NOTES

COORDINATE EXACT LOCATION OF SLEEVES WITH GENERAL CONTRACTOR.

ALL SLEEVING UNDER DRIVEWAYS, SIDEROADS AND SIDEWALKS SHALL BE BURIED A MIN. OF 24" BELOW THE FINISHED GRADE.

ENDS OF SLEEVES SHALL EXTEND 12" PAST THE EDGES OF ALL PAVING AND CURBS AND BE CLEARLY MARKED FOR FUTURE USE BY THE SPRINKLER SYSTEM CONTRACTOR.

BELOW EXISTING DRIVES, BORE & REAM FOR SLEEVES AS NOTED ON THE DRAWING OR AS MAY BE REQUIRED FOR ACCESS.

BORING SHALL BE DONE BY THE DIRECTIONAL BORING METHOD.

DRY BORES SHALL BE CONDUCTED IN A MANNER CONSISTENT WITH INDUSTRY ACCEPTED PRACTICES THAT MINIMIZE ANNULAR VOIDS AND OVER-BREAKS AND PROTECT THE INTEGRITY OF GROUND COVER, SURFACES AND STRUCTURES. IN NO CASE SHALL OVERBORE EXCEED 5 PERCENT OF THE PIPE DIAMETER. THE USE OF WATER UNDER PRESSURE GREATER THAN 10 POUNDS PER SQUARE INCH TO JET A HOLE AHEAD OF THE BIT IS NOT PERMITTED.

WET BORING IS NOT ALLOWED.

GENERAL NOTES

CONTRACTOR SHALL INSTALL ALL EQUIPMENT PER MANUFACTURER'S CURRENT SPECIFICATIONS AND RECOMMENDATIONS.

COORDINATE EXACT LOCATION OF WATER METERS, BACKFLOW PREVENTERS, CONTROLLERS AND RAIN/FREEZE SENSORS WITH THE ENGINEER AND OWNER. PROVIDE GFI OUTLET WITH 115VAC; 1PHASE POWER AT THE BFP / CONTROLLER ENCLOSURES AS SHOWN ON DETAIL #1.

CONTRACTOR SHALL CAREFULLY VERIFY A MINIMUM DYNAMIC WATER PRESSURE OF 75psi @ 25gpm AT EACH WATER METER. CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER IF WATER PRESSURE IS LESS THAN OR SIGNIFICANTLY HIGHER THAN NOTED.

WHEN TRENCHING UNDER THE DRIPLINE OF EXISTING TREES EXTREME CARE MUST BE GIVEN TO AVOID ROOT DAMAGE. IF AT ALL POSSIBLE AVOID TRENCHING INSIDE THE DRIPLINE BY GOING AROUND THE TREE RATHER THAN UNDER IT. INSTALL PIPING AND SPRINKLERS ON THE INSIDE OF NEW CURBLINES IF POSSIBLE. IF TRENCHING MUST OCCUR UNDER THE DRIPLINE, USE EITHER TUNNELING OR HAND-DIGGING METHODS RATHER THAN A MECHANICAL TRENCHER. MINIMIZE THE IMPACT OF ROOT SEVERING BY AVOIDING CONSTRUCTION DURING HOT, DRY WEATHER, KEEPING TREES WELL WATERED BEFORE AND AFTER DIGGING AND COVERING ROOTS WITH SOIL OR MULCH AS SOON AS POSSIBLE.

CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES CAUSED TO ALL UTILITIES (BOTH OVERHEAD AND BELOWGROUND) DURING THE IRRIGATION INSTALLATION. CONTRACTOR SHALL SEEK THE ASSISTANCE AT LOCAL UTILITIES AND THE OWNER IN THE LOCATION OF THE UTILITIES PRIOR TO PERFORMING TRENCHING OPERATIONS IN THE WORKING AREA.

THE IRRIGATION DESIGN IS DIAGRAMMATIC. THE INTENT OF THE DRAWINGS IS TO SHOW THE GENERAL LAYOUT AND LOGIC OF THE SYSTEM. SCALED MEASUREMENTS MAY NOT BE ACCURATE. ACTUAL LOCATIONS AND QUANTITIES OF PIPE AND FITTINGS MAY VARY DUE TO FIELD ADJUSTMENTS FOR EXISTING CONDITIONS AND OTHER OBSTRUCTIONS TO PROVIDE THE PROPER AND INTENDED COVERAGE.

ALL PVC MAINLINE PIPING SHALL BE PVC SCH40. ALL LATERAL PIPING SHALL BE PVC CL200. ALL PVC FITTINGS SHALL BE SCH40 PVC TYPE 1 AND MUST BE OF DOMESTIC MANUFACTURE. PVC SOLVENT CEMENT AND PRIMER SHALL BE AS RECOMMENDED / APPROVED BY THE MANUFACTURER OF THE PIPE.

QUANTITIES ARE SHOWN FOR CONVENIENCE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CALCULATE ALL MATERIALS NECESSARY FOR A COMPLETE IRRIGATION SYSTEM.

IRRIGATION LEGEND

2	▪	1" IRRIGATION WATER METER (25gpm @ 75 psi REQUIRED)
2	▶▶	1" WILKINS #975XL RP-TYPE BACKFLOW PREVENTER
4	⋈	1-1/2" BRONZE ISOLATION GATE VALVE
37	◕	RAINBIRD 100PEB ZONE VALVE with FLO CONTROL
24	Q	RAINBIRD 3RC QUICK COUPLING VALVE (PROVIDE 4 KEYS)
2	#	RAINBIRD ESP-20LXME (20) STATION IRRIGATION CONTROLLER
2	⧗	RAINBIRD WR2 - WIRELESS RAIN / FREEZE SENSOR
223	8	RAINBIRD 1804-PRS 4" POP-UP TURF SPRAY with 8-HE-VAN NOZZLE
13	10	RAINBIRD 1804-PRS 4" POP-UP TURF SPRAY with 10-HE-VAN NOZZLE
117	12	RAINBIRD 1804-PRS 4" POP-UP TURF SPRAY with 12-HE-VAN NOZZLE
1	15	RAINBIRD 1804-PRS 4" POP-UP TURF SPRAY with 15-HE-VAN NOZZLE
14	SS	RAINBIRD 1804-PRS 4" POP-UP TURF SPRAY with 15SST NOZZLE
2	SC	RAINBIRD 1804-PRS 4" POP-UP TURF SPRAY with 15SST NOZZLE
1	C	RAINBIRD 1804-PRS 4" POP-UP TURF SPRAY with 15SST NOZZLE
163	8	RAINBIRD 1812-PRS 12" POP-UP SHRUB SPRAY with 8-HE-VAN NOZZLE
69	10	RAINBIRD 1812-PRS 12" POP-UP SHRUB SPRAY with 10-HE-VAN NOZZLE
68	12	RAINBIRD 1812-PRS 12" POP-UP SHRUB SPRAY with 12-HE-VAN NOZZLE
4	15	RAINBIRD 1812-PRS 12" POP-UP SHRUB SPRAY with 15-HE-VAN NOZZLE
36	SS	RAINBIRD 1812-PRS 12" POP-UP SHRUB SPRAY with 15SST NOZZLE
41	SC	RAINBIRD 1812-PRS 12" POP-UP SHRUB SPRAY with 15SST NOZZLE
39	C	RAINBIRD 1812-PRS 12" POP-UP SHRUB SPRAY with 15SST NOZZLE
54	◉	RAINBIRD RWS-M-B-1401 ROOT WATERING SYSTEM for TREE GRATES

——— CLASS 200 PVC LATERAL PIPING
——— ——— SCHEDULE 40 PVC MAINLINE PIPING
– – – – – – – – – SCHEDULE 40 PVC SLEEVING

FINAL PLANS
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LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

IRRIGATION PLAN -
(SHEET 1 OF 5)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: MDL
DRAWN BY: MDL

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SHEET NUMBER **68**

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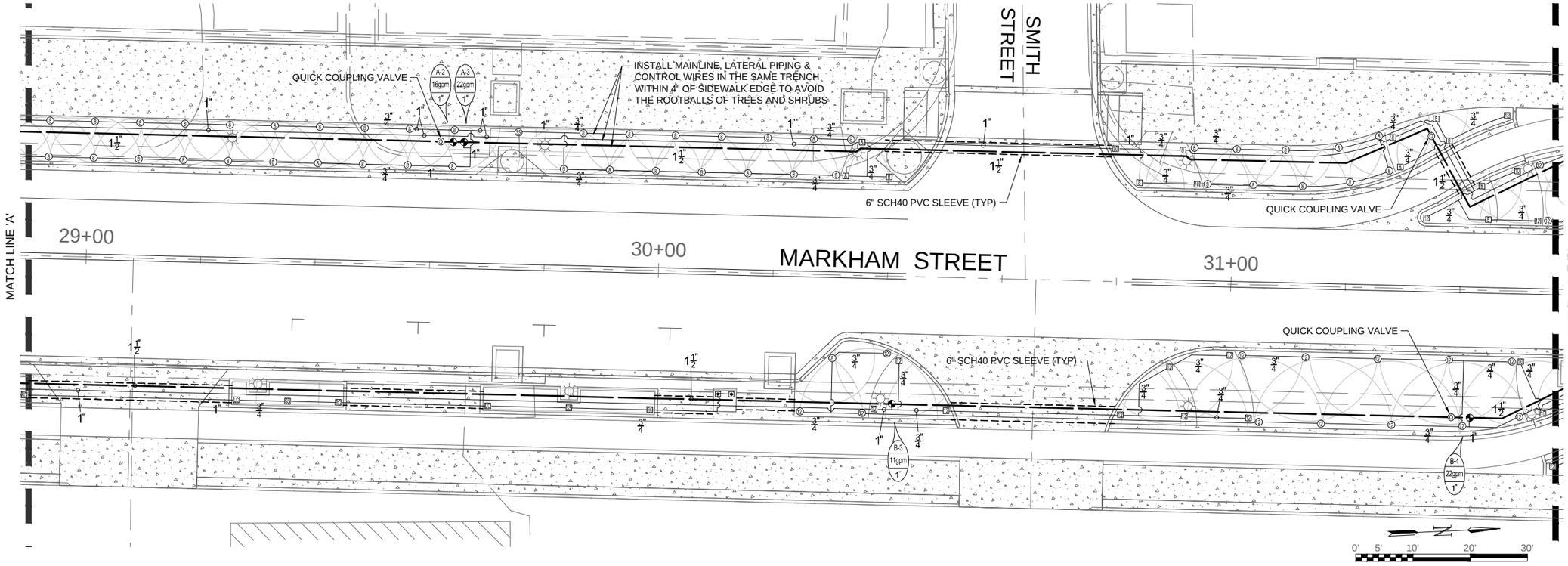

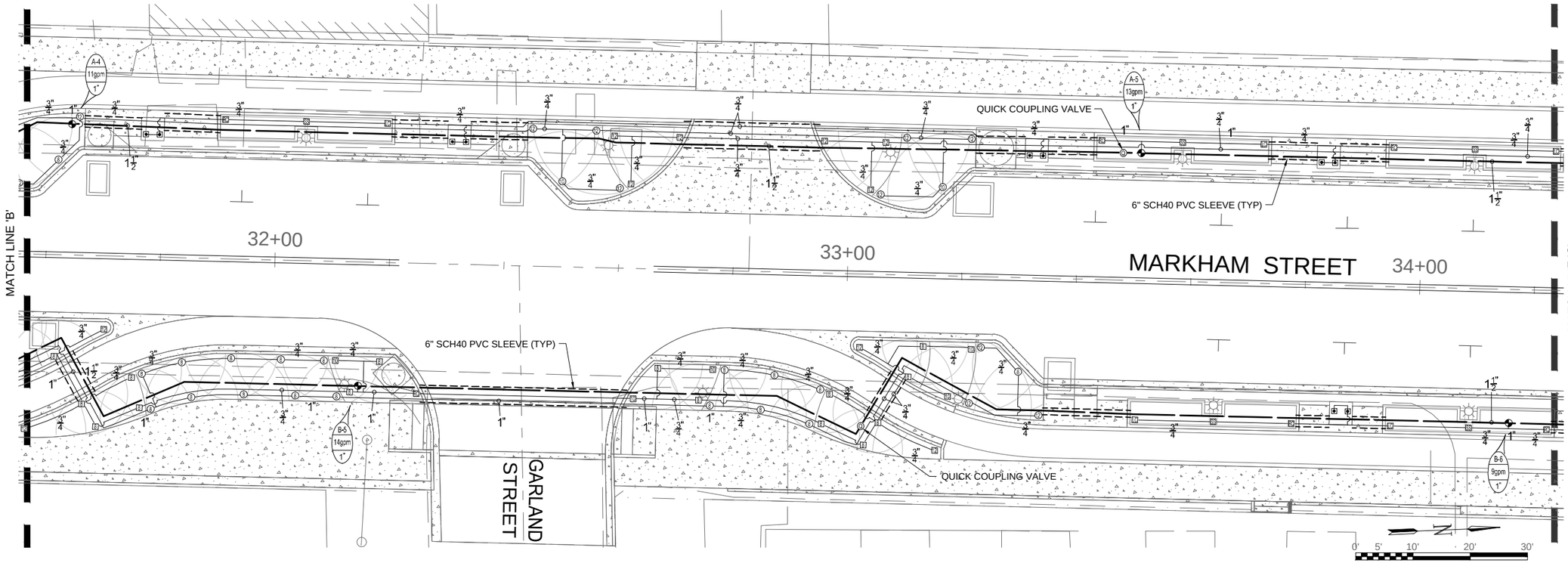

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LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

IRRIGATION PLAN -
(SHEET 2 OF 5)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: MDL
DRAWN BY: MDL

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SHEET NUMBER **69**

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$$FILE$$
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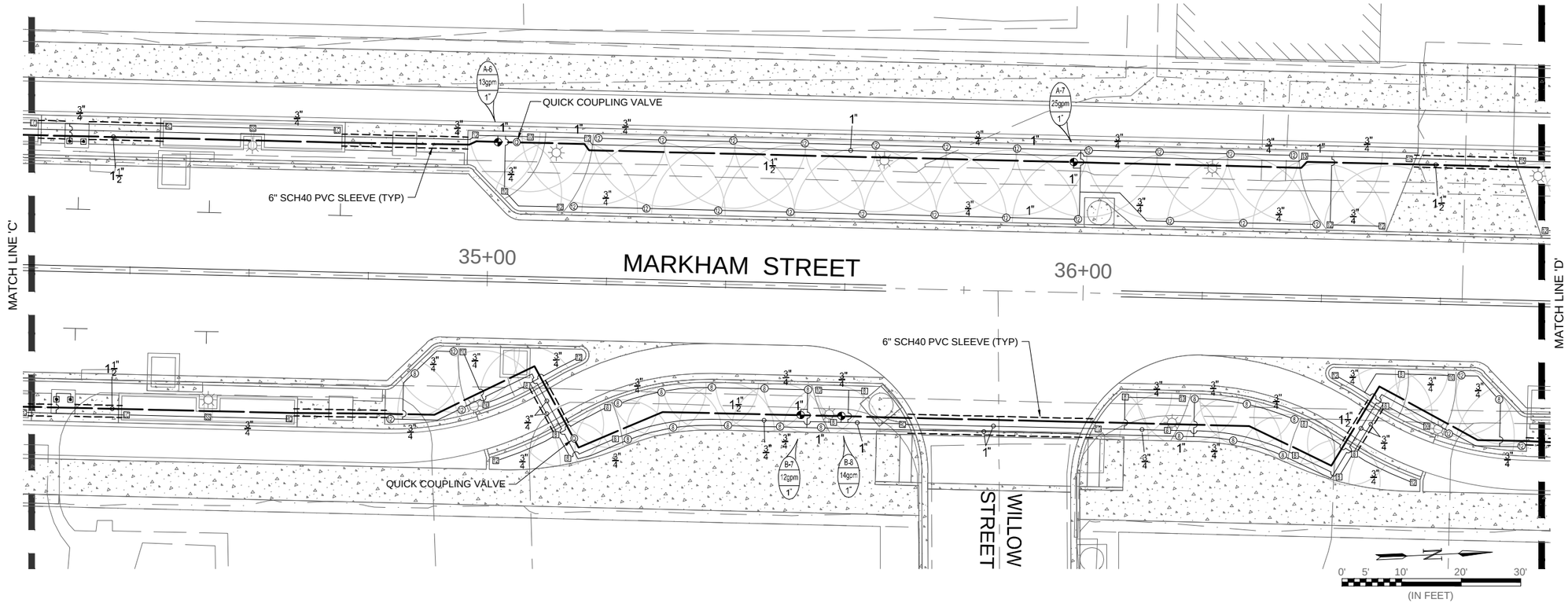

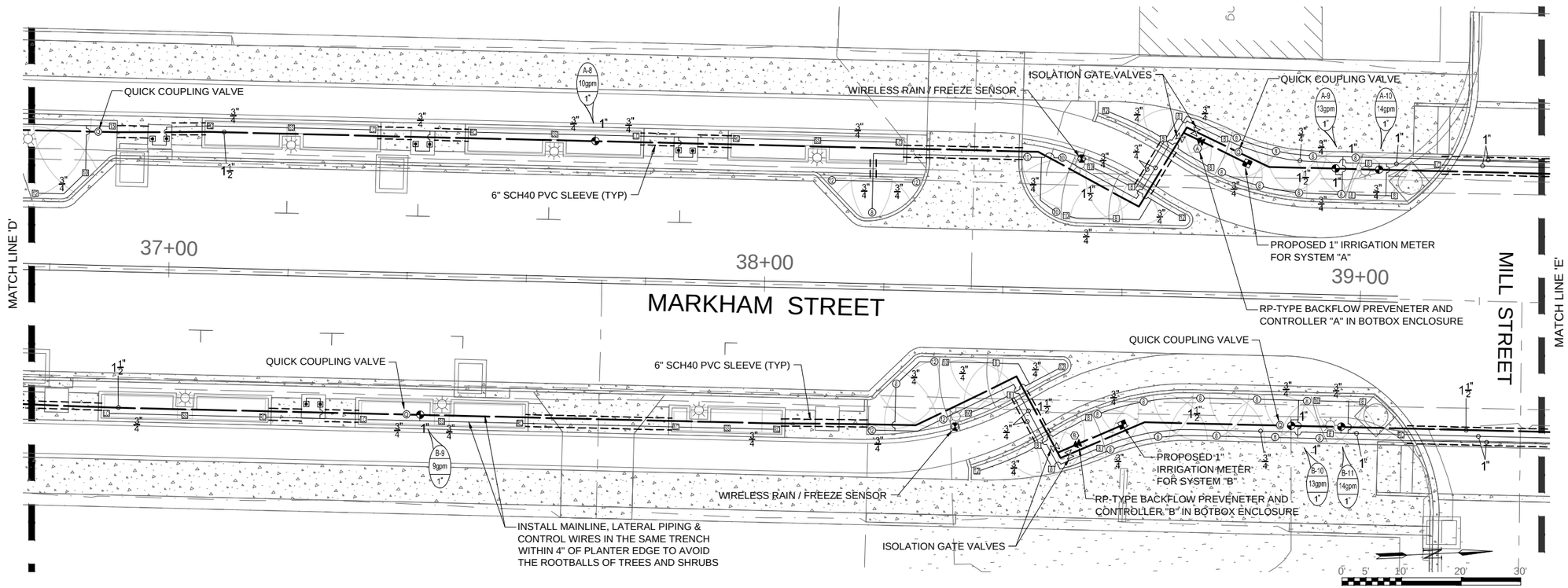

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LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

IRRIGATION PLAN -
(SHEET 3 OF 5)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: MDL
DRAWN BY: MDL

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I-203

SHEET NUMBER **70**

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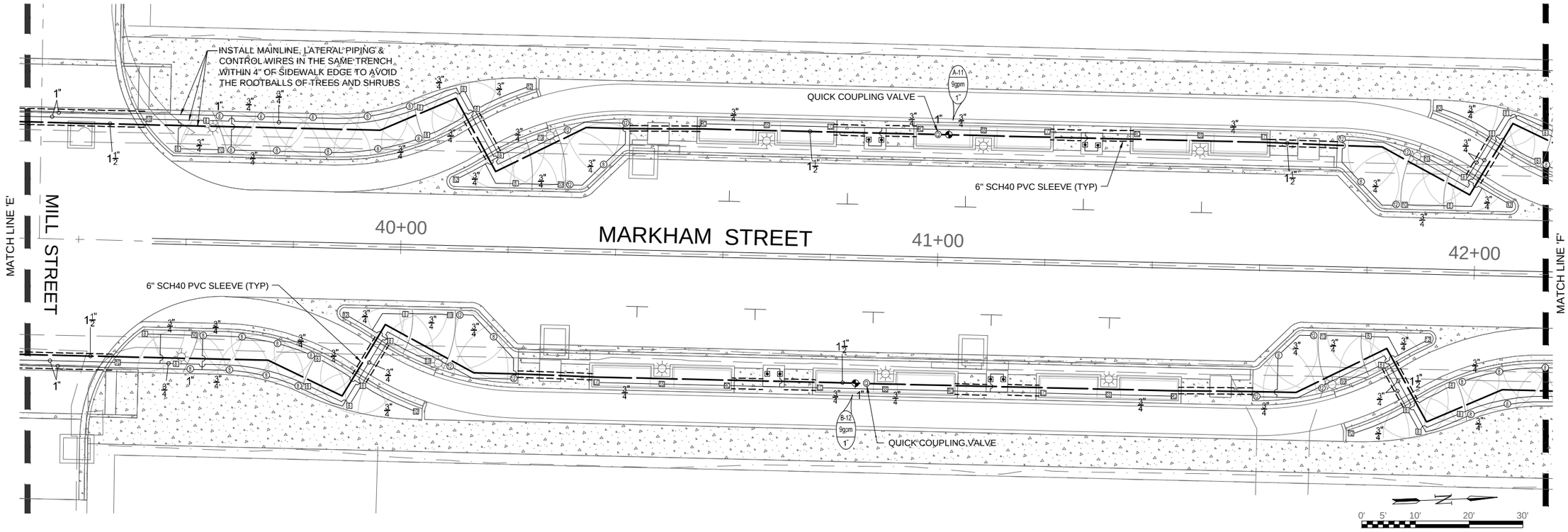

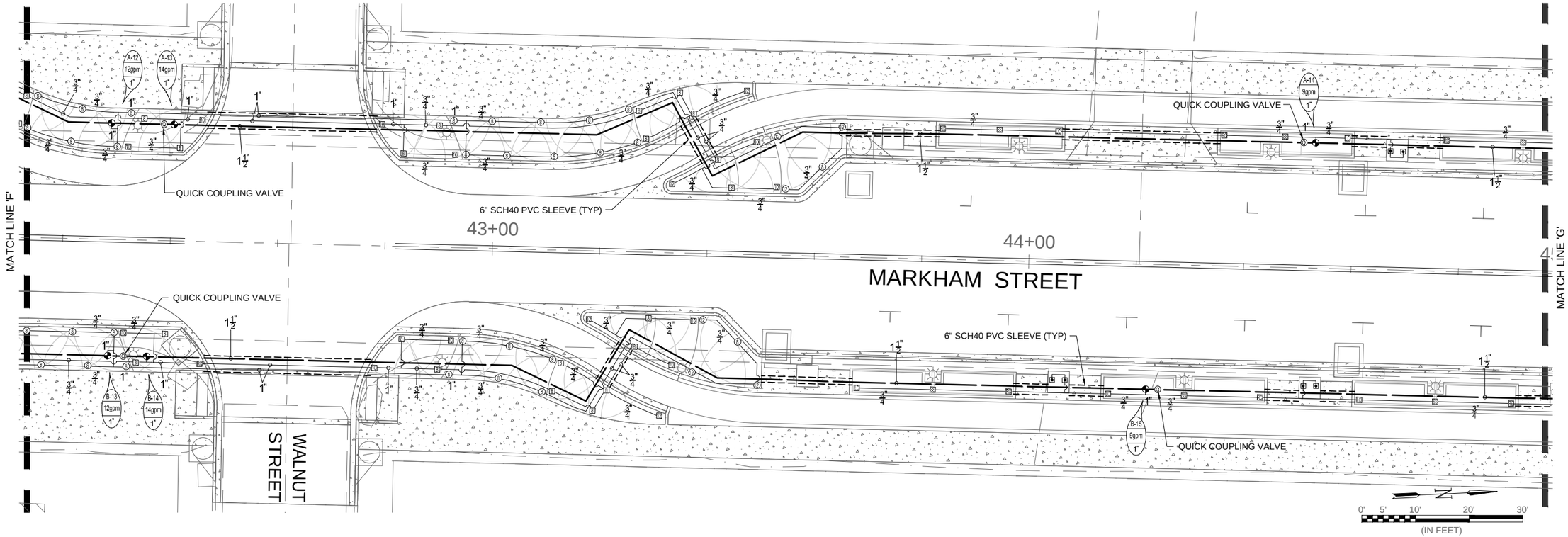

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LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

IRRIGATION PLAN -
(SHEET 4 OF 5)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: MDL
DRAWN BY: MDL

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DRAWING NUMBER
I-204

SHEET NUMBER **71**

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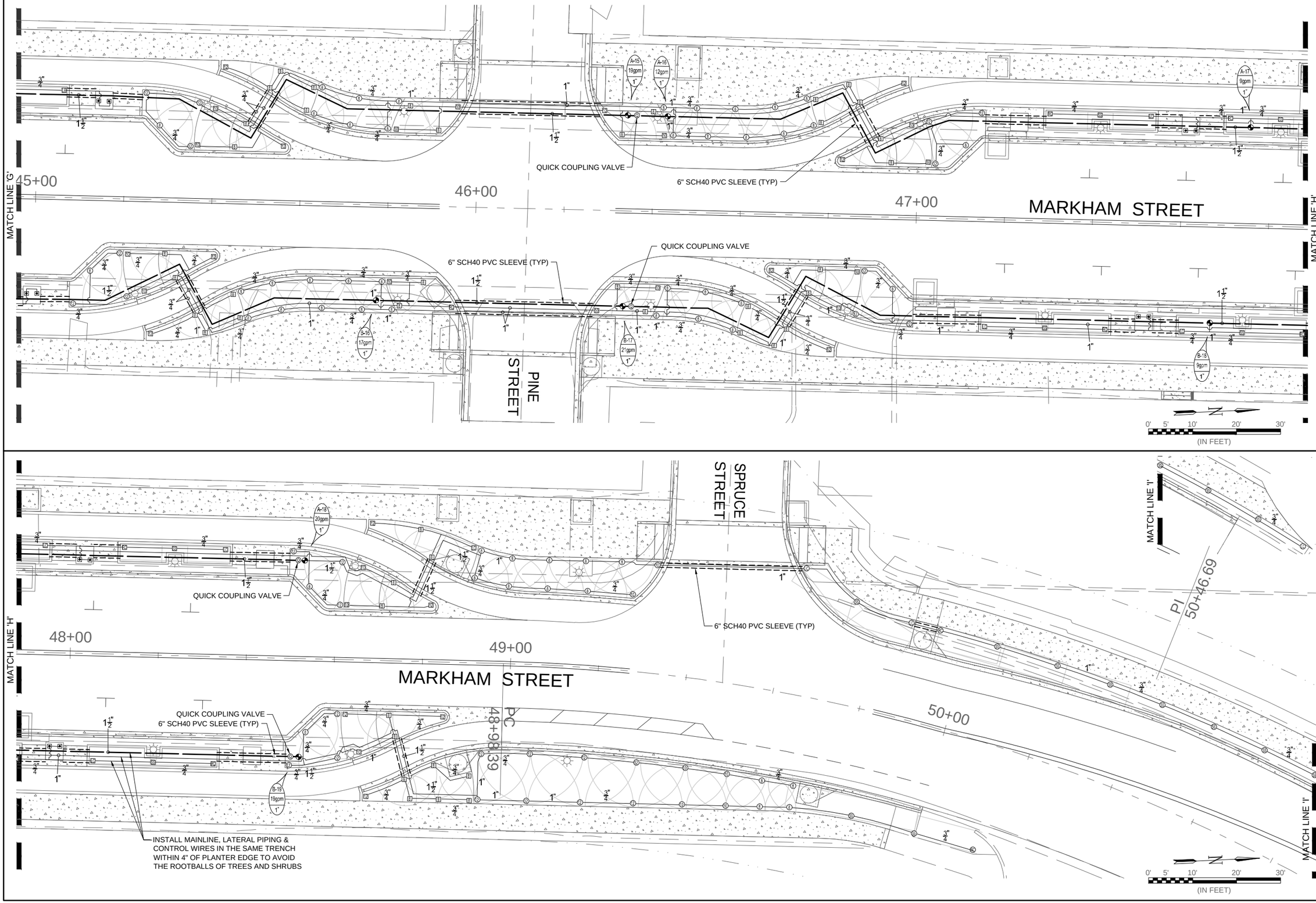
WORKSPACE: $$WORKSPACE$$
$$FILE$$
$$DATE$$ $$TIME$$



FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

IRRIGATION PLAN -
(SHEET 5 OF 5)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: MDL
DRAWN BY: MDL

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

DRAWING NUMBER
I-205

SHEET NUMBER **72**

$$USERS$$
WORKSPACE: $$WORKSPACE$$
$$FILE$$
$$DATE$$ $$TIME$$

PLANT MATERIALS SCHEDULE

ITEM		SIZE AND DESCRIPTION
Trees / Avenue Street Tree		
*1.	Willow Oak Quercus phellos	Specimen; height min. 14'-16'; 3"-3 1/2" min. caliper; spread min. 5'-6'; trees well branched, well balanced all sides; trees well matched; trees to have strong central leaders; B&B. Note: Trees to have forms adaptable to pruning for pedestrian and vehicular clearance.
Shrubs / Flowering		
*2.	'Little Henry' Dwarf Sweetspire Itea virginica 'Sprich' #10,988	Height min. 15"-18"; spread min. 15"-18"; full, well branched; 3 gal.
Ornamental Grasses		
*4.	Pink Muhly Grass Muhlenbergia capillaris	Full clump; height min. 15"-18"; spread min. 15"-18"; well rooted; 3 gal.
Bioretention Grasses		
*5.	'The Blues' Little Bluestem Schizachyrium scoparium 'The Blues'	Full clump; height min. 14"-16"; spread min. 12"-14"; well rooted; 3 gal.
*6.	Soft Rush Juncus effusus	Full clump; height min. 14"-16"; spread min. 12"-14"; well rooted; 3 gal.
Perennials		
*7.	Goldsturm Rudbeckia Rudbeckia fulgidawell 'Goldsturm'	Full clump; height 12"-15"; rooted; 1 gal.
Turf		
8.	'Tifway 419' Bermuda Cynodon dactydon x C. transvaalensis germplasma 'Tifway 419' Solid Sod	Solid sod, free of weeds, debris, insects and other grasses.

*Note: Upon approval of a bid, submit pictures of representative samples from the nurseries supplying the plant materials, to the Engineer for review. Approval of submittals does not preclude rejection on site after planting of materials not meeting the specifications.

*Note: Requests for substitutions must be submitted and approved prior to "Bid" Date by Engineer.

*Note: Do not substitute B&B materials for materials designated to be containerized. B&B materials will not be accepted for these items. Note requirements for specimen quality and well matched, well balanced trees for tree species.

*Note: Plant acceptance for shrubs shall be based on meeting the size specification rather than the container size. The container size specified is the minimum size acceptable.

*Note: All plant material used shall comply with the latest amended edition of the 'American Standards for Nursery Stock'.

Note: Caliper of trees to be measured 12" above grade at installation.

GENERAL NOTES

1. Stake the location of all trees and mass planting areas and obtain approval of the General Contractor and Engineer prior to installation. Tree locations may be adjusted based on the exterior light standard locations, power poles, security camera locations and signage, as applicable.

2. Trees shall be selected with forms adaptable to placement adjacent to sidewalks and/or vehicular use areas. Trees shall have forms and clear trunks adaptable to future pruning for pedestrian and\ vehicular clearance.

3. Provide a minimum 3'-0" diameter mulch ring with a 4" mulch saucer for all trees located in turf and mass planting areas. Provide 3" depth of mulch inside the saucers. Review subsurface drainage conditions. Install trees "high" if necessary due to subsurface conditions.

4. Provide a 3" minimum depth of shredded hardwood mulch in all mass shrub and ornamental grasses planting beds excluding in bioretention areas.. Provide a 2" minimum depth of shredded hardwood mulch in all perennial beds. Finished grades of the mulch shall be 1/2" below the finished grade of adjacent paving, edging or curbing . Submit a sample of the mulch for approval by the Owner and Engineer prior to installation. Provide 3" depth 'washed' egg rock mulch in bioretention planters. Refer to Civil drawing, sheet C-217. Submit sample of 'washed' egg rock for approval of Engineer and Owner prior to installation.

5. Provide 4" x 1/8" steel landscape edging with stakes between all turf areas and perennials or shrub beds. No edging shall be installed between the different types of shrub material. Taper-off or pound down corner of steel edging.

6. Refer to the Drawings for the plantings of 'Little Henry' Virginia Sweetspire. Set the shrubs in mass plantings 2'-6" on center, staggered rows, unless otherwise noted. Provide consistent spacing in the mass plantings. Define the outside edges of any mass plantings and work inward. Set the first row of shrubs 24" from any edging or paving or other shrub mass.

8. Ornamental Grasses: Refer to the Drawings for the mass planting of Pink Muhly Grass. Set the ornamental grasses 2'-6" on center, staggered rows, unless otherwise noted. Define the outside edges or any mass plantings and work inward. Set the first row 18" from any edging or paving or other shrub mass.

8. Bioretention Grasses: Refer to the Drawings for the mass planting of 'The Blues' Little Bluestem. Set the Little Bluestem grasses 2'-6" on center in staggered rows. Set the first row 18" from planter edges. Refer to the Drawings for the mass planting of Soft Rush. Set the Soft Rush grasses 18" on center in staggered row. Set the first row 18" from planter edges.

9. Refer to Civil drawing, sheet C-217 for Bioretention planter. The Landscape Contractor to provide 'washed' egg rock mulch in bioretention planters. Confirm finished grades for the top of mulch in bioretention planters with General Contractor prior to installation of plants and placing 'washed' egg rock. All other work within bioretention planters by General Contractor with exception of planting ornamental grasses and placing 'washed' egg rock. Washed egg rock shall be approximately 1" - 2" in size, buff to brown color. Submit sample of 'washed' egg rock for approval of Engineer and Owner prior to installation. Provide minimum 3" depth of 'washed' egg rock.

10. Perennials: Refer to the Drawings for the plantings of Goldsturm Rubeckia. Set the perennials plants equally spaced in staggered rows 18" on center. Set the first row of plants 18" from any edging or paving or shrub mass.

11. All exterior mass planting and perennials beds are to be full with material equally spaced, at the designated "on-center" spacing, at the time of planting.

12. Exterior shrubs and perennials quantities shown on this plan are the minimum required quantities. The Landscape Contractor is responsible to verify quantities indicated on the plans. All exterior mass shrub planting areas and perennials beds are to be full with material equally spaced at the designated "on-center" spacing, at times of planting. Beds which are not full at the time of planting based on the designated spacing, shall have additional material added at no expense to the Owner. Additional materials shall be added prior to the completion date.

13. All solid sod shall be 'Tifway 419' Bermuda. Provide positive drainage in all turf areas. Solid sod to be laid on a smooth uniform grade with all joints tight and even.

14. Contractor shall calculate all square footage of sod areas.

15. Begin maintenance immediately after planting. Maintain plant materials by watering, pruning, cultivating, and fertilizing as required for healthy growth. Restore planting saucers. Tighten and repair stake and guy supports and reset trees and shrubs to proper grades or vertical position as required. Provide positive chemical, insect and disease control as indicated by inspection. Fertilize plants as required by good horticultural practice. Provide and replace mulch in planting beds and inside the saucers as necessary. Remove trash from planting and lawn areas at least once a week. Weed shrub and groundcover beds as required to maintain a neat appearance. Mow and edge lawns at least once each week during the growing season. Bag and remove clippings from the project site. Monitor operation and coverage of the irrigation system.

16. All container grown material shall be thoroughly hand watered upon arrival, while in the containers, before planting. Protect the tree trunks at all times during the removal from delivery trailer.

17. Prune any trees as requested by the Engineer, General Contractor or Owner.

18. Review existing utilities and new utility plans, as applicable, prior to installing the plant materials. Do not install trees or shrubs over underground drainage structures, utilities or directly under overhead power lines. Make minor adjustments in tree locations if necessary. Coordinate revised locations with the Engineer and General Contractor.

19. Coordinate the installation of the landscape with the installation of the site lighting, as applicable. Minor adjustments in the field may be made as required to position the trees between the light standards. Stake the locations of all trees and obtain approval of Engineer and General Contractor prior to installation.

20. Landscape Contractor to secure any permits, including franchise agreements, required for planting and irrigation in public right-of-way, when applicable, prior to commencing work. Coordinate with General Contractor and Engineer as necessary. Pull all required permits.

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
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METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

LANDSCAPE
GENERAL NOTES

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: CBD
DRAWN BY: LCJ

BAR IS ONE INCH ON ORIGINAL DRAWING
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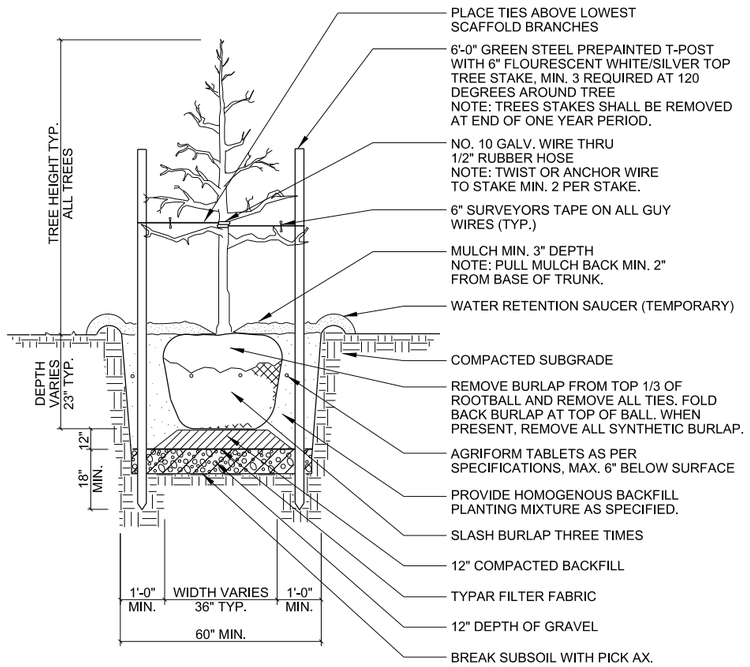
DRAWING NUMBER
L-001

SHEET NUMBER **73**



NOTE: PLANTS SHALL BE SET SLIGHTLY HIGHER THAN GRADE TO ALLOW FOR SETTLING AND POSITIVE DRAINAGE.

PLACE TIES ABOVE LOWEST SCAFFOLD BRANCHES

6'-0" GREEN STEEL PREPAINTED T-POST WITH 6" FLOURESCENT WHITE/SILVER TOP TREE STAKE, MIN. 3 REQUIRED AT 120 DEGREES AROUND TREE
NOTE: TREES STAKES SHALL BE REMOVED AT END OF ONE YEAR PERIOD.

NO. 10 GALV. WIRE THRU 1/2" RUBBER HOSE
NOTE: TWIST OR ANCHOR WIRE TO STAKE MIN. 2 PER STAKE.

6" SURVEYORS TAPE ON ALL GUY WIRES (TYP.)

MULCH MIN. 3" DEPTH
NOTE: PULL MULCH BACK MIN. 2" FROM BASE OF TRUNK.

WATER RETENTION SAUCER (TEMPORARY)

COMPACTED SUBGRADE

REMOVE BURLAP FROM TOP 1/3 OF ROOTBALL AND REMOVE ALL TIES. FOLD BACK BURLAP AT TOP OF BALL. WHEN PRESENT, REMOVE ALL SYNTHETIC BURLAP.

AGRIFORM TABLETS AS PER SPECIFICATIONS, MAX. 6" BELOW SURFACE

PROVIDE HOMOGENOUS BACKFILL PLANTING MIXTURE AS SPECIFIED.

SLASH BURLAP THREE TIMES

12" COMPACTED BACKFILL

TYPAR FILTER FABRIC

12" DEPTH OF GRAVEL

BREAK SUBSOIL WITH PICK AX.

NOTE: PROVIDE FERTILOME ROOT STIMULATOR IN EACH TREE PIT.

NOTE: PLACE ALL PVC LATERIALS OUTSIDE OF ROOTBALL.

1 TREE PLANTNG / STAKING DETAIL

NO SCALE (FOR TREES IN MASS PLANTING AND TURF AREAS)

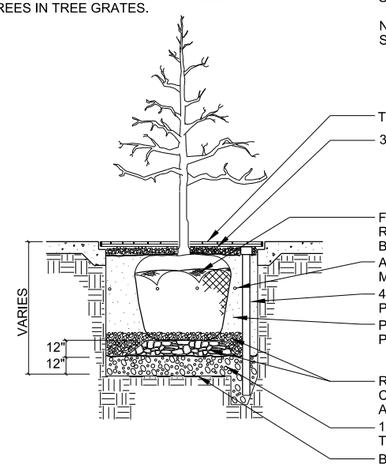
NOTE: TREE GRATES TO BE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. REFER TO CIVIL DRAWING, SHEET C-215, FOR TREE GRATE AND PIT.

NOTE: NO GUYING TO BE PROVIDED FOR TREES IN TREE GRATES.

NOTE: COORDINATE INSTALLATION OF IRRIGATION WITH INSTALLATION OF TREES.

NOTE: PLACE ALL PVC LATERALS FOR SPRINKLER SYSTEM OUTSIDE OF ROOTBALL.

NOTE: PROVIDE FERTILOME ROOT STIMULATOR IN EACH TREE PIT.



TREE GRATE BY GENERAL CONTRACTOR.

3" DEPTH HARDWOOD MULCH

FOLD BACK BURLAP FROM TOP 1/3 OF ROOTBALL. REMOVE ALL TIES OR WIRE BASKETS FROM TOP OF ROOTBALL.

AGRIFORM TABLET AS PER SPECIFICATIONS MAX.6" BELOW SURFACE.

4" PVC OBSERVATION SUMP WITH GRAVEL. PROVIDE CAP BELOW TREE GRATE.

PROVIDE HOMOGENOUS BACKFILL PLANTING MIXTURE AS SPECIFIED

ROOTBALL SHALL BE SET IN PLACE ON COMPACTED SB-2 SUB-BASE PEDESTAL AND COVERED WITH 2" WASHED GRAVEL.

12" LAYER OF COMPACTED GRAVEL WITH TYPAR FILTER FABRIC OR APPROVED EQUAL.

BREAK SUBSOIL WITH PICK AX.

2 TREE PLANTING IN TREE GRATE DETAIL

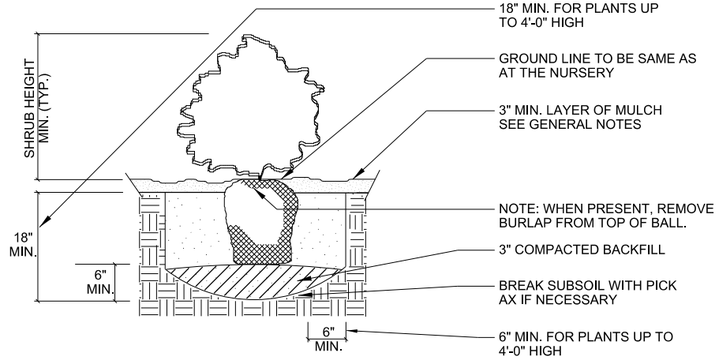
NO SCALE

NOTES:

1. PROVIDE HOMOGENOUS BACKFILL PLANTING MIXTURE AS SPECIFIED. PROVIDE FERTILOME ROOT STIMULATOR OR APPROVED EQUAL IN PITS. APPLY BALAN PRE-EMERGENT WEED CONTROL OR APPROVED EQUAL TREATMENT ON ALL SHRUB BEDS.

2. PROVIDE AGRIFORM TABLETS AS PER MANUFACTURERS RECOMMENDATIONS.

3. PROVIDE WEED CONTROL AND/OR FERTILIZER AS SPECIFIED. WEED CONTROL AND FERTILIZER MAY BE APPLIED AT A LATER DATE TO COMPLY WITH SEASONAL CONDITIONS AND THE GROWING PERIOD.



18" MIN. FOR PLANTS UP TO 4'-0" HIGH

GROUND LINE TO BE SAME AS AT THE NURSERY

3" MIN. LAYER OF MULCH SEE GENERAL NOTES

NOTE: WHEN PRESENT, REMOVE BURLAP FROM TOP OF BALL.

3" COMPACTED BACKFILL

BREAK SUBSOIL WITH PICK AX IF NECESSARY

6" MIN. FOR PLANTS UP TO 4'-0" HIGH

3 SHRUB AND ORNMENTAL GRASS PLANTING DETAIL

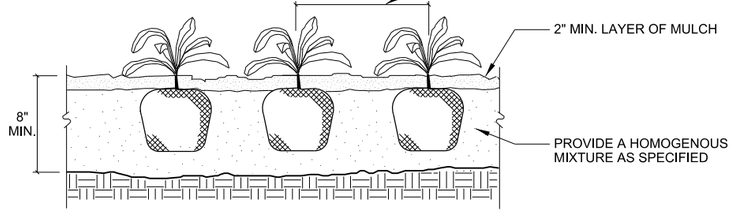
NO SCALE

NOTES:

1. PROVIDE HOMOGENOUS BACKFILL PLANTING MIXTURE AS SPECIFIED. PROVIDE FERTILOME ROOT STIMULATOR OR APPROVED EQUAL IN PITS.

2. PROVIDE AGRIFORM TABLETS AS PER MANUFACTURERS RECOMMENDATIONS.

3. APPLY BALAN PRE-EMERGENT WEED CONTROL OR APPROVED EQUAL TREATMENT ON ALL PERENNIAL BEDS. WEED CONTROL AND FERTILIZER MAY BE APPLIED AT A LATER DATE TO COMPLY WITH SEASONAL CONDITIONS AND THE GROWING PERIOD.



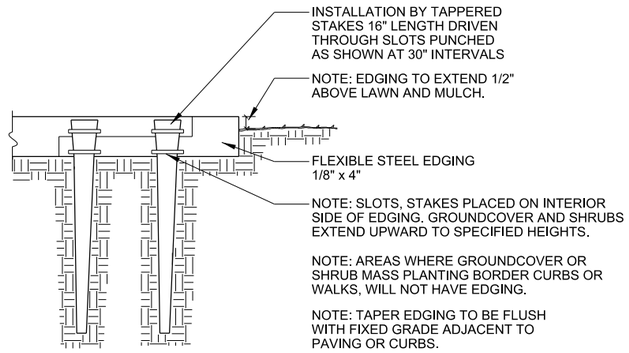
SEE PLANS FOR SPACING

2" MIN. LAYER OF MULCH

PROVIDE A HOMOGENOUS MIXTURE AS SPECIFIED

4 PERENNIAL PLANTING DETAIL

NO SCALE



INSTALLATION BY TAPPERED STAKES 16" LENGTH DRIVEN THROUGH SLOTS PUNCHED AS SHOWN AT 30" INTERVALS

NOTE: EDGING TO EXTEND 1/2" ABOVE LAWN AND MULCH.

FLEXIBLE STEEL EDGING 1/8" x 4"

NOTE: SLOTS, STAKES PLACED ON INTERIOR SIDE OF EDGING. GROUNDCOVER AND SHRUBS EXTEND UPWARD TO SPECIFIED HEIGHTS.

NOTE: AREAS WHERE GROUNDCOVER OR SHRUB MASS PLANTING BORDER CURBS OR WALKS, WILL NOT HAVE EDGING.

NOTE: TAPER EDGING TO BE FLUSH WITH FIXED GRADE ADJACENT TO PAVING OR CURBS.

5 STEEL EDGING DETAIL

NO SCALE

FINAL PLANS
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REV.	DATE	DESCRIPTION	BY

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METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

LANDSCAPE DETAILS

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: CBD
DRAWN BY: LCJ

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DRAWING NUMBER
L-101

SHEET NUMBER **74**

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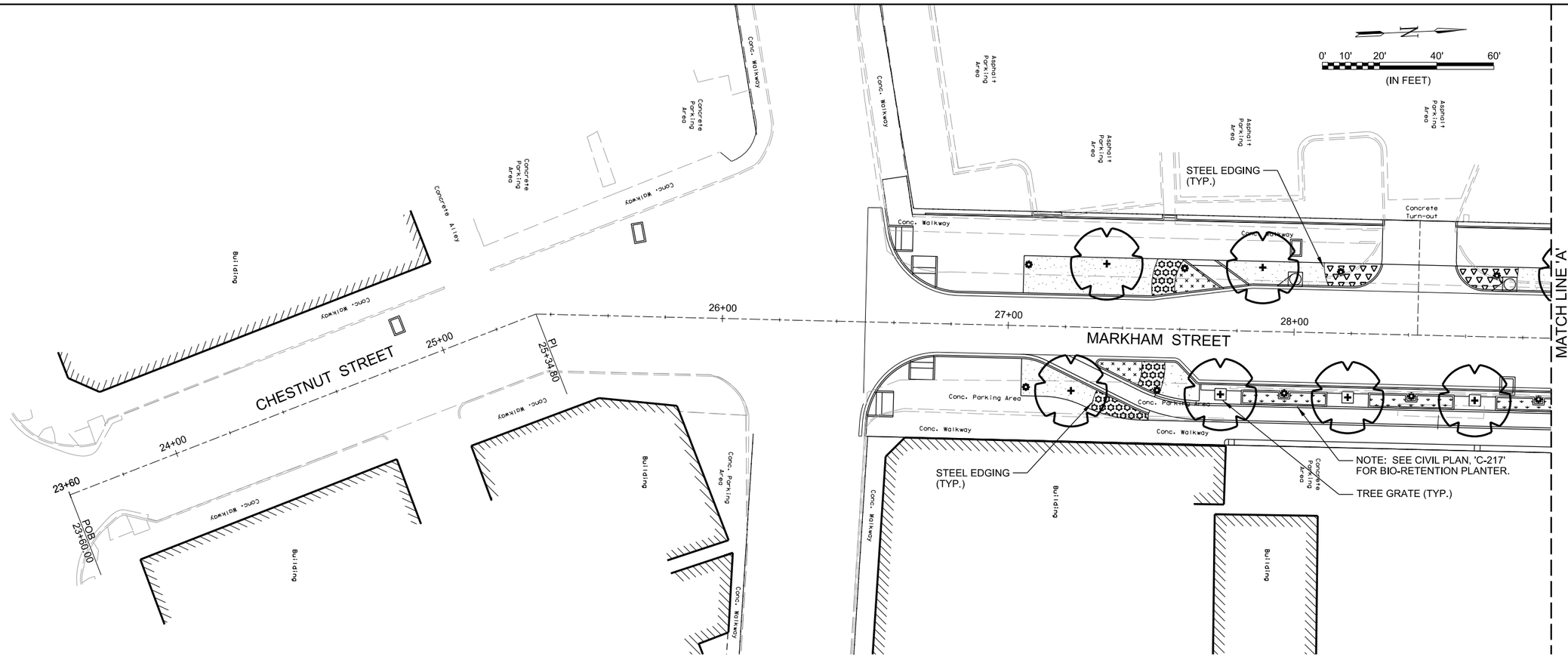

NOTES:

1. THE LISTED QUANTITIES ARE PROVIDED FOR ESTIMATING PURPOSES ONLY. ESTIMATED QUANTITIES OF MASS PLANTING AREAS ARE BASED ON DESIGNATED ON-CENTER SPACING PER SQUARE FOOTAGE. ALL MASS PLANTING BEDS SHALL BE FULL UPON COMPLETION OF LANDSCAPE INSTALLATION BASED ON THE ON-CENTER SPACING. THE NUMBER OF PLANT MATERIAL SYMBOLS (CIRCLES) SHOWN ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER ESTIMATED QUANTITIES SHOWN ABOVE. CONFIRM ALL QUANTITIES.

2. ALL NEW LANDSCAPE AREAS SHALL HAVE AN AUTOMATIC IRRIGATION SYSTEM.

3. REFER TO CIVIL SHEET, C-215, FOR TREE GRATE DETAIL AND DETAIL, 2 / L-101 FOR TREE PLANTING IN TREE GRATES.

LEGEND:

	QUANTITY
AVENUE STREET TREE: WILLOW OAK	6
'LITTLE HENRY' VIRGINIA SWEETSPIRE MASS PLANTING 2'-6" O.C. (TYP.)	40
PINK MUHLY GRASS MASS PLANTING 2'-6" O.C. (TYP.)	45
SOFT RUSH MASS PLANTING 18" O.C. (TYP.)	125
'GOLDSTURM' RUDBECKIA MASS PLANTING 18" O.C. (TYP.)	80
'TIFWAY 419' BERMUDA SOLID SOD	

FINAL PLANS
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LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

LANDSCAPE PLAN -
(SHEET 1 OF 5)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: CBD
DRAWN BY: LCJ

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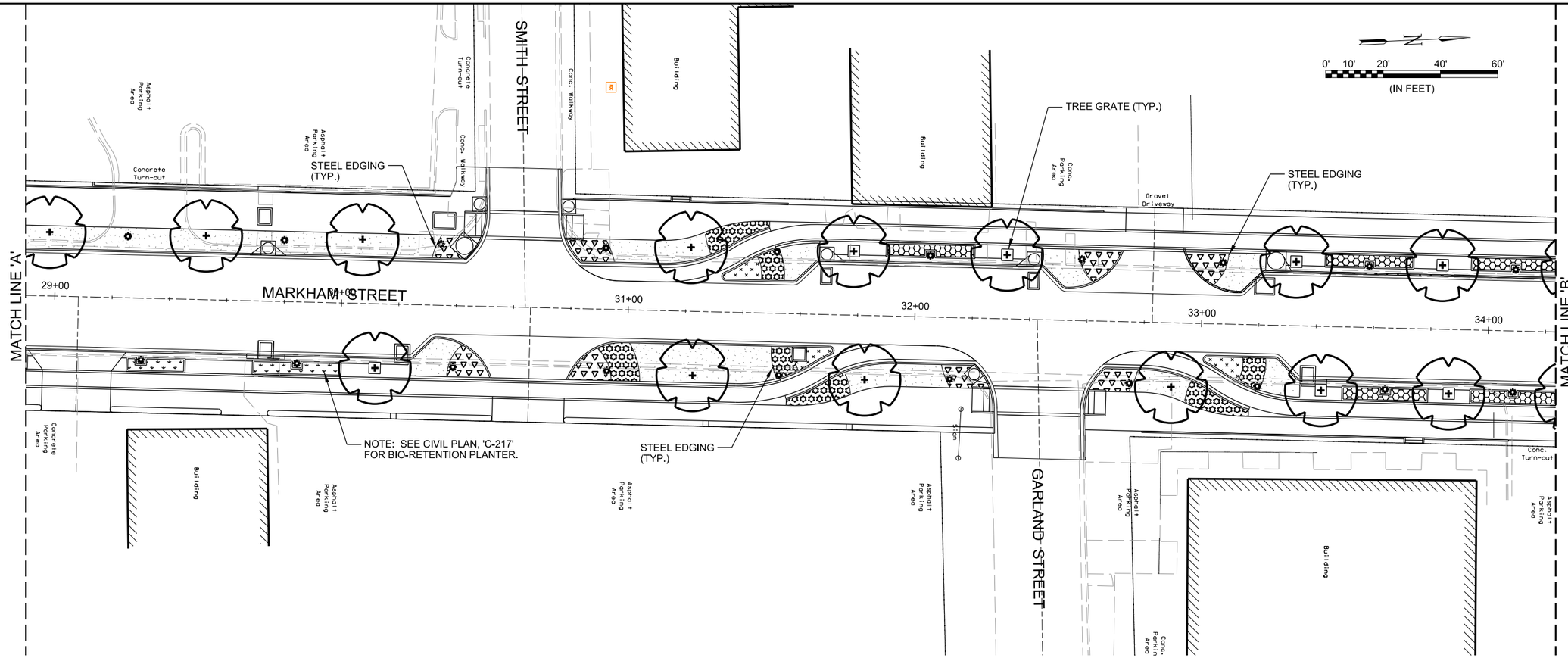
DRAWING NUMBER
L-201

SHEET NUMBER **75**



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2. ALL NEW LANDSCAPE AREAS SHALL HAVE AN AUTOMATIC IRRIGATION SYSTEM.

3. REFER TO CIVIL SHEET, C-215, FOR TREE GRATE DETAIL AND DETAIL, 2 / L-101 FOR TREE PLANTING IN TREE GRATES.

LEGEND:

		QUANTITY
+	AVENUE STREET TREE: WILLOW OAK	14
	'LITTLE HENRY' VIRGINIA SWEETSPIRE MASS PLANTING 2'-6" O.C. (TYP.)	115
	PINK MUHLY GRASS MASS PLANTING 2'-6" O.C. (TYP.)	120
	'THE BLUES' LITTLE BLUESTEM MASS PLANTING 2'-6" O.C. (TYP.)	90
	SOFT RUSH MASS PLANTING 18" O.C. (TYP.)	80
	'GOLDSTURM' RUDBECKIA MASS PLANTING 18" O.C. (TYP.)	80
	'TIFWAY 419' BERMUDA SOLID SOD	

FINAL PLANS
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LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS. (CONWAY) (S)

LANDSCAPE PLAN - (SHEET 2 OF 5)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: CBD
DRAWN BY: LCJ

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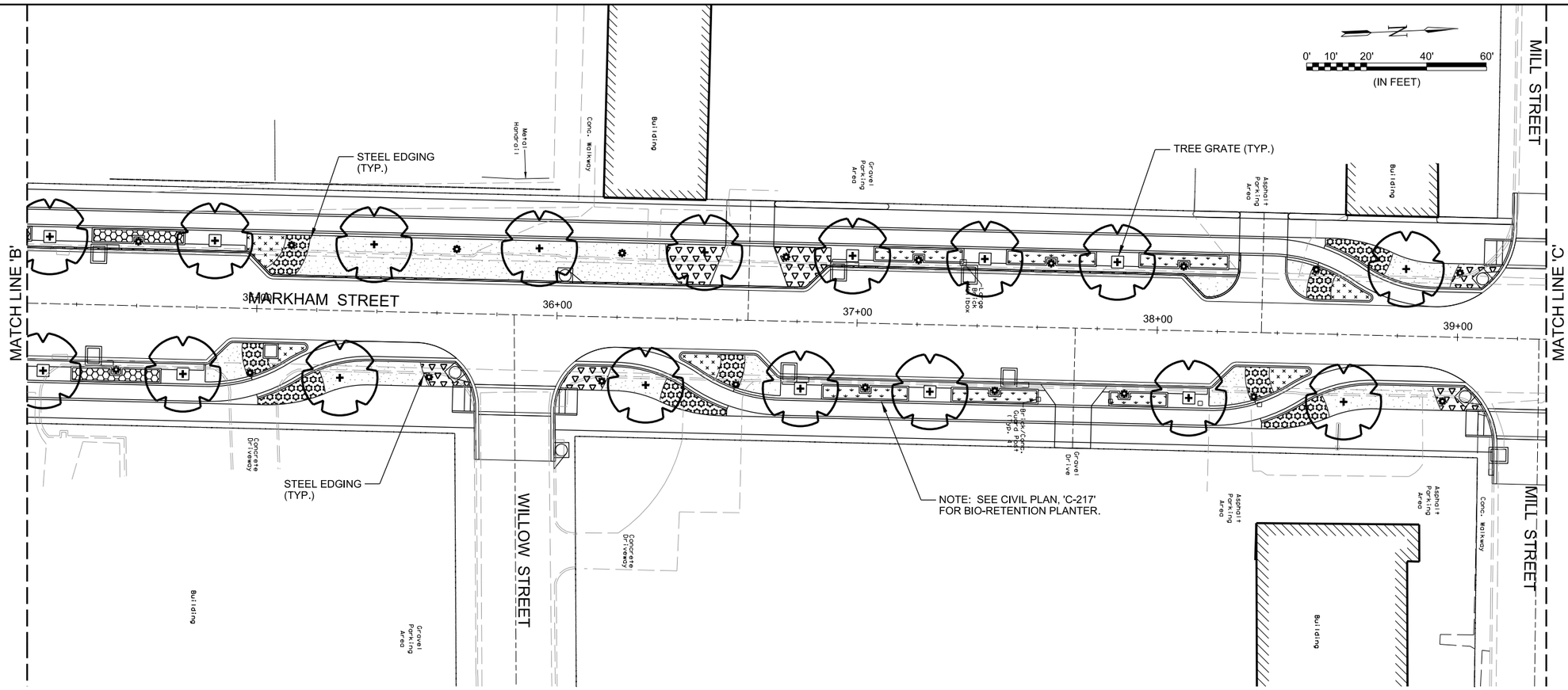
DRAWING NUMBER
L-202

SHEET NUMBER **76**



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3. REFER TO CIVIL SHEET, C-215, FOR TREE GRATE DETAIL AND DETAIL, 2 / L-101 FOR TREE PLANTING IN TREE GRATES.

LEGEND:

	QUANTITY
AVENUE STREET TREE: WILLOW OAK	17
'LITTLE HENRY' VIRGINIA SWEETSPIRE MASS PLANTING 2'-6" O.C. (TYP.)	110
PINK MUHLY GRASS MASS PLANTING 2'-6" O.C. (TYP.)	145
'THE BLUES' LITTLE BLUESTEM MASS PLANTING 2'-6" O.C. (TYP.)	35
SOFT RUSH MASS PLANTING 18" O.C. (TYP.)	265
'GOLDSTURM' RUDBECKIA MASS PLANTING 18" O.C. (TYP.)	160
'TIFWAY 419' BERMUDA SOLID SOD	

FINAL PLANS
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LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS. (CONWAY) (S)

LANDSCAPE PLAN - (SHEET 3 OF 5)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: CBD
DRAWN BY: LCJ

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DRAWING NUMBER
L-203

SHEET NUMBER **77**

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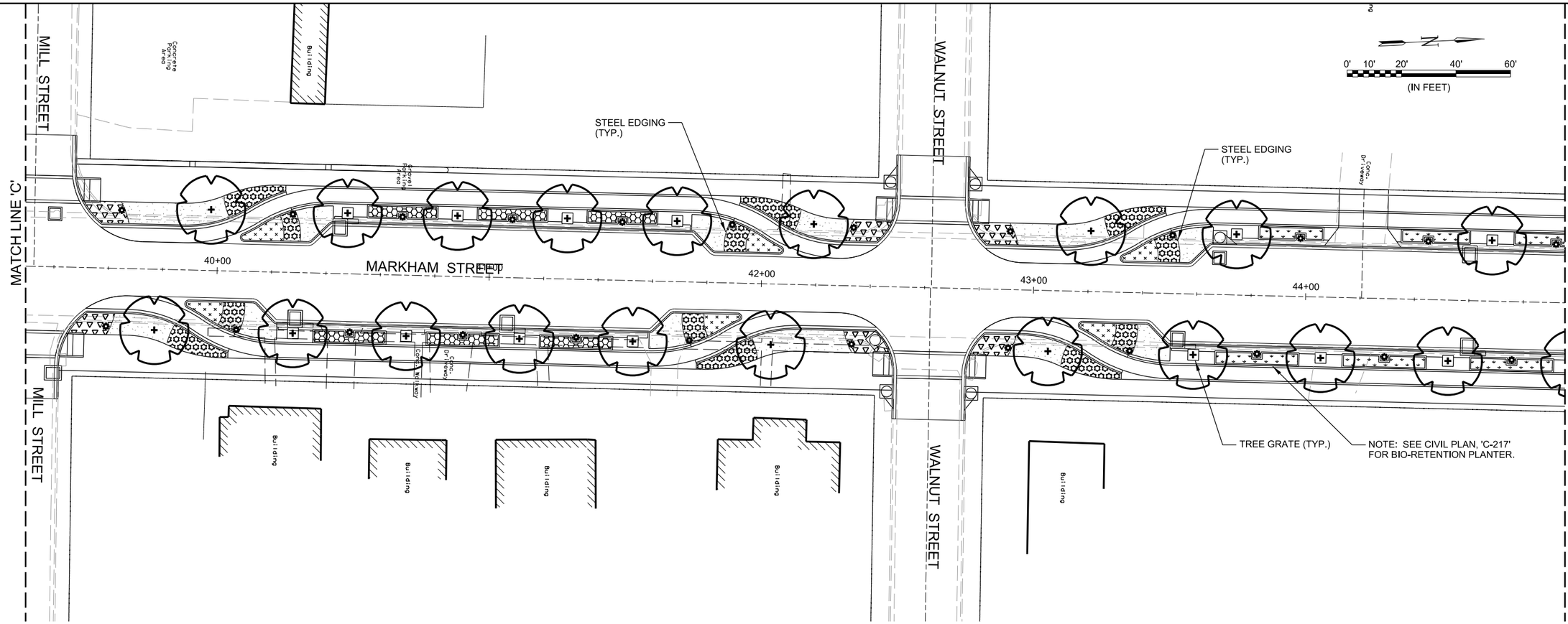

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2. ALL NEW LANDSCAPE AREAS SHALL HAVE AN AUTOMATIC IRRIGATION SYSTEM.

3. REFER TO CIVIL SHEET, C-215, FOR TREE GRATE DETAIL AND DETAIL, 2 / L-101 FOR TREE PLANTING IN TREE GRATES.

LEGEND:

	QUANTITY
AVENUE STREET TREE: WILLOW OAK	19
'LITTLE HENRY' VIRGINIA SWEETSPIRE MASS PLANTING 2'-6" O.C. (TYP.)	85
PINK MUHLY GRASS MASS PLANTING 2'-6" O.C. (TYP.)	190
'THE BLUES' LITTLE BLUESTEM MASS PLANTING 2'-6" O.C. (TYP.)	90
SOFT RUSH MASS PLANTING 18" O.C. (TYP.)	260
'GOLDSTURM' RUDBECKIA MASS PLANTING 18" O.C. (TYP.)	185
'TIFWAY 419' BERMUDA SOLID SOD	

FINAL PLANS
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MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

LANDSCAPE PLAN -
(SHEET 4 OF 5)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: CBD
DRAWN BY: LCJ

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

DRAWING NUMBER
L-204

SHEET NUMBER **78**

dttackett 3/8/2018 8:41:31 AM
WORKSPACE:cGarver_2012
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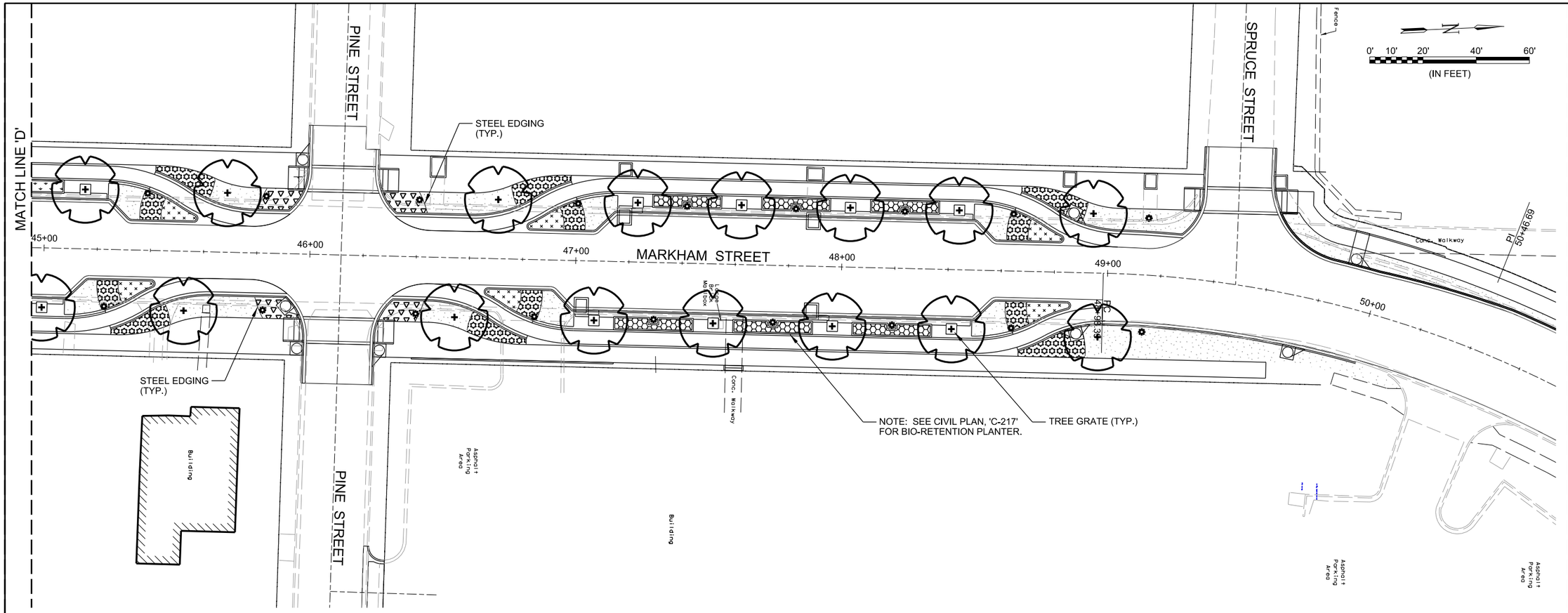

NOTES:

1. THE LISTED QUANTITIES ARE PROVIDED FOR ESTIMATING PURPOSES ONLY. ESTIMATED QUANTITIES OF MASS PLANTING AREAS ARE BASED ON DESIGNATED ON-CENTER SPACING PER SQUARE FOOTAGE. ALL MASS PLANTING BEDS SHALL BE FULL UPON COMPLETION OF LANDSCAPE INSTALLATION BASED ON THE ON-CENTER SPACING. THE NUMBER OF PLANT MATERIAL SYMBOLS (CIRCLES) SHOWN ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER ESTIMATED QUANTITIES SHOWN ABOVE. CONFIRM ALL QUANTITIES.

2. ALL NEW LANDSCAPE AREAS SHALL HAVE AN AUTOMATIC IRRIGATION SYSTEM.

3. REFER TO CIVIL SHEET, C-215, FOR TREE GRATE DETAIL AND DETAIL, 2 / L-101 FOR TREE PLANTING IN TREE GRATES.

LEGEND:

		QUANTITY
+	AVENUE STREET TREE: WILLOW OAK	16
	'LITTLE HENRY' VIRGINIA SWEETSPIRE MASS PLANTING 2'-6" O.C. (TYP.)	60
	PINK MUHLY GRASS MASS PLANTING 2'-6" O.C. (TYP.)	200
	'THE BLUES' LITTLE BLUESTEM MASS PLANTING 2'-6" O.C. (TYP.)	95
	SOFT RUSH MASS PLANTING 18" O.C. (TYP.)	20
	'GOLDSTURM' RUDBECKIA MASS PLANTING 18" O.C. (TYP.)	185
	'TIFWAY 419' BERMUDA SOLID SOD	

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS. (CONWAY) (S)

LANDSCAPE PLAN - (SHEET 5 OF 5)

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: CBD
DRAWN BY: LCJ

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

DRAWING NUMBER
L-205

SHEET NUMBER **79**

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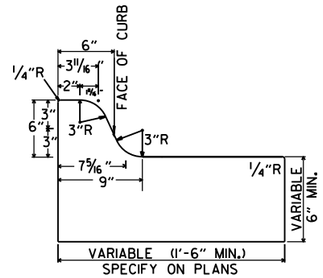
L:\2016\16017122 - Conway - Markham Street\Drawings\GMSH-205-LS.dgn



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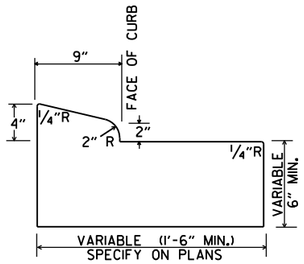

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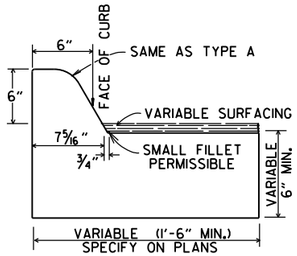
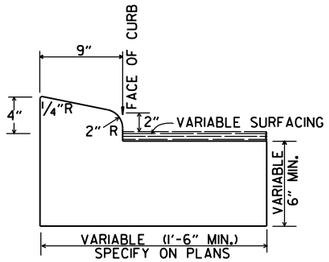


TYPE C



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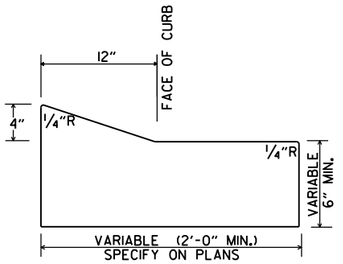
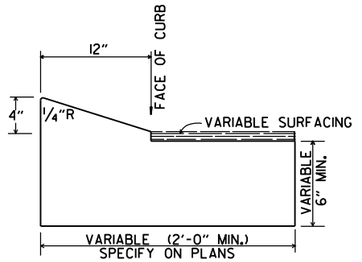
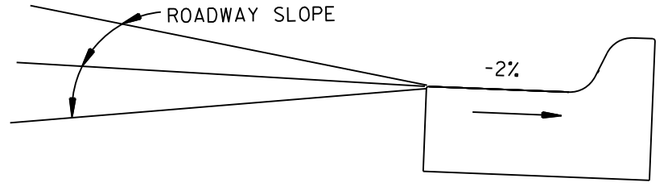


TYPE E-1



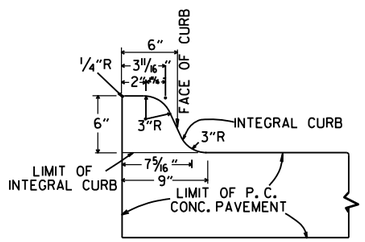
TYPE E-2

CONCRETE COMBINATION CURB AND GUTTER



DETAIL OF GUTTER SLOPE

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



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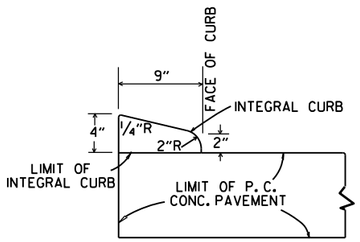
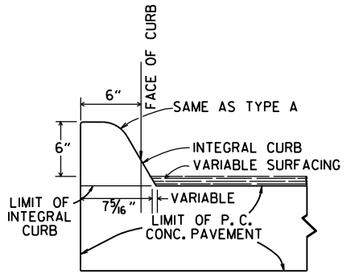
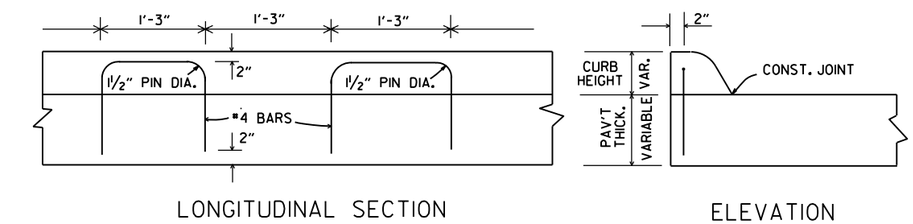


TYPE B



TYPE C

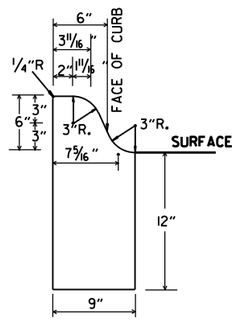
INTEGRAL CURB



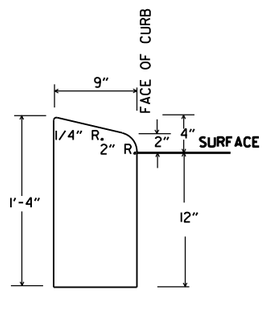
LONGITUDINAL SECTION

ELEVATION

ALTERNATE CONSTRUCTION METHOD FOR INTEGRAL CURB



TYPE A



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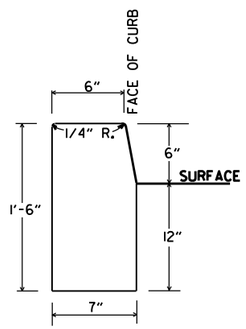
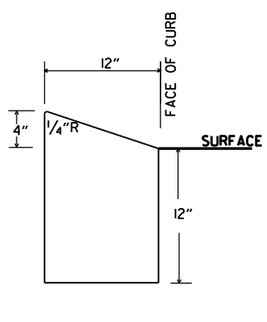
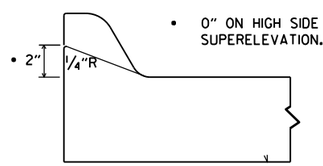


TYPE D



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

4'-0" LENGTH DROP INLET

PIPE SIZE	MIN. WIDTH	HEIGHT 5'-0" CLASS A CONC. CU. YDS.	HEIGHT 5'-0" REINF. STEEL POUNDS	PLUS OR MINUS PER LIN. FT. OF HEIGHT CLASS A CONC. CU. YDS.	PLUS OR MINUS PER LIN. FT. OF HEIGHT REINF. STEEL POUNDS
18"	2'-6"	1.77	156	0.28	22
24"	2'-6"	1.79	156	0.28	22
30"	3'-2"	2.39	205	0.30	26
36"	3'-8"	2.63	236	0.32	28
42"	4'-4"	2.95	250	0.34	30
48"	4'-10"	3.21	265	0.36	32

NOTE: QUANTITIES ARE APPROXIMATE AND ARE SHOWN FOR BIDDER INFORMATION ONLY.

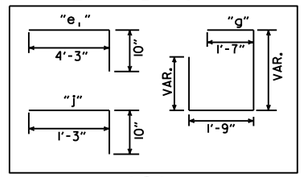
DROP INLET EXTENSION

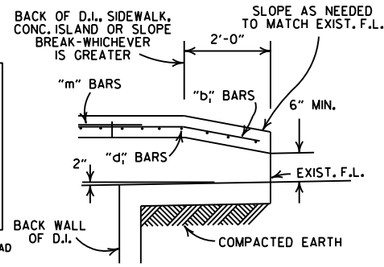
4'-0" CLASS A CONC. CU. YDS.	4'-0" REINF. STEEL POUNDS	8'-0" CLASS A CONC. CU. YDS.	8'-0" REINF. STEEL POUNDS
0.58	38	0.87	72
DEDUCT FROM QUANTITY COMPUTED FOR EACH EXTENSION ADDED.			
0.04	3		

DEDUCT FROM QUANTITY COMPUTED FOR EACH PIPE ENTERING INLET

INSIDE DIA. PIPE	CLASS A CONC.	REINF. STEEL
INCHES	CU. YDS.	POUNDS
18	0.05	2
24	0.09	3
30	0.13	4
42	0.24	8

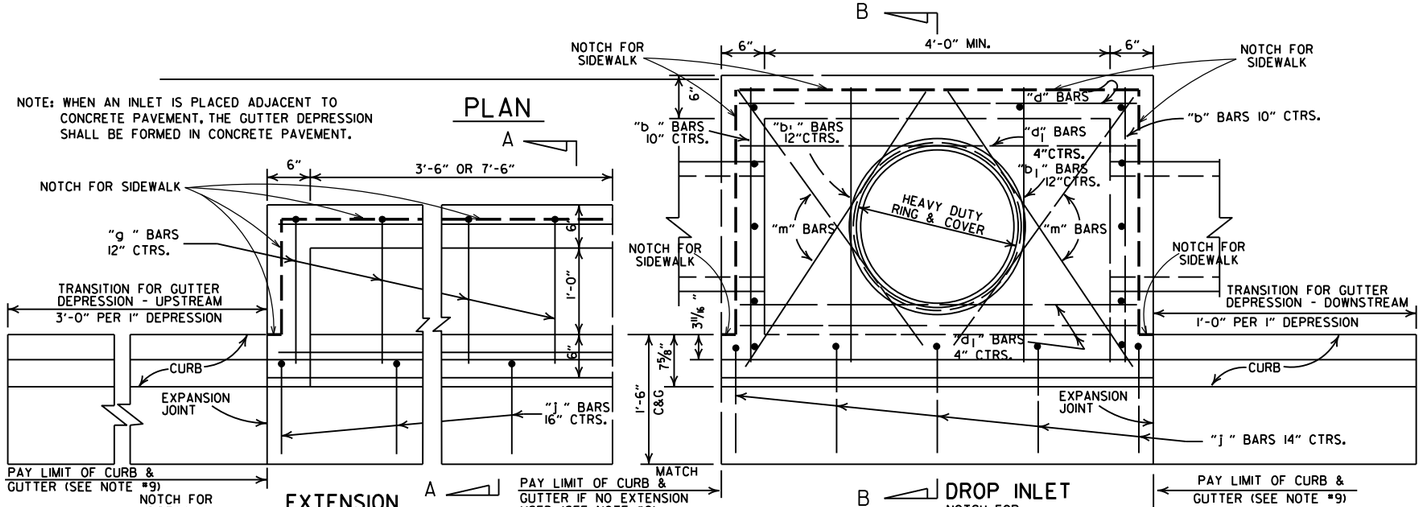
BAR DIAMETER

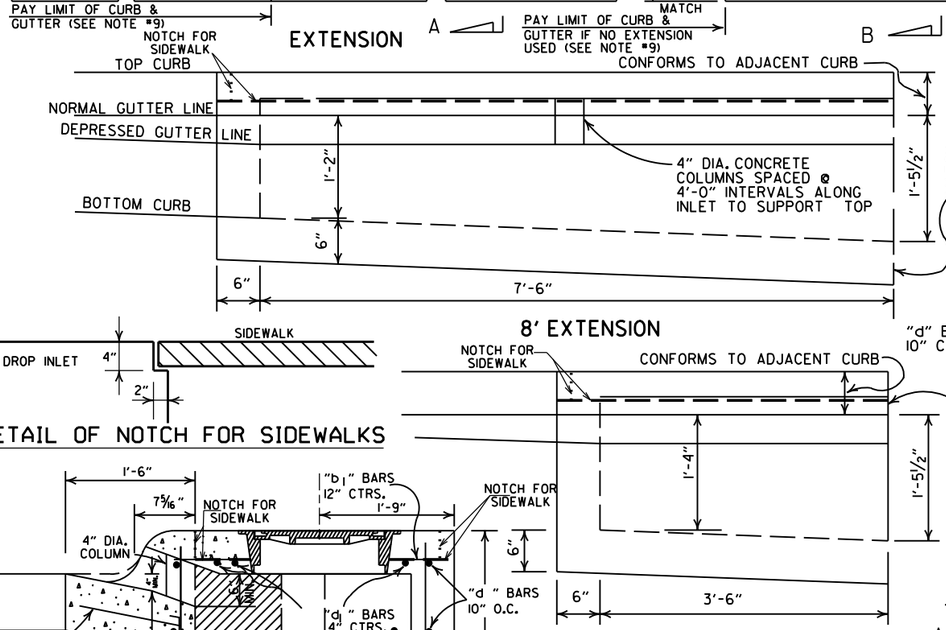


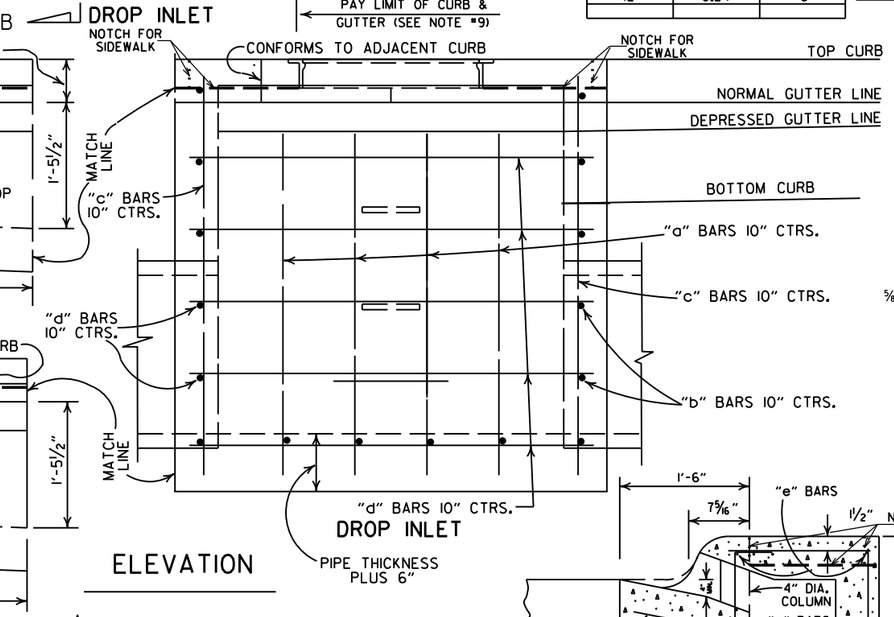


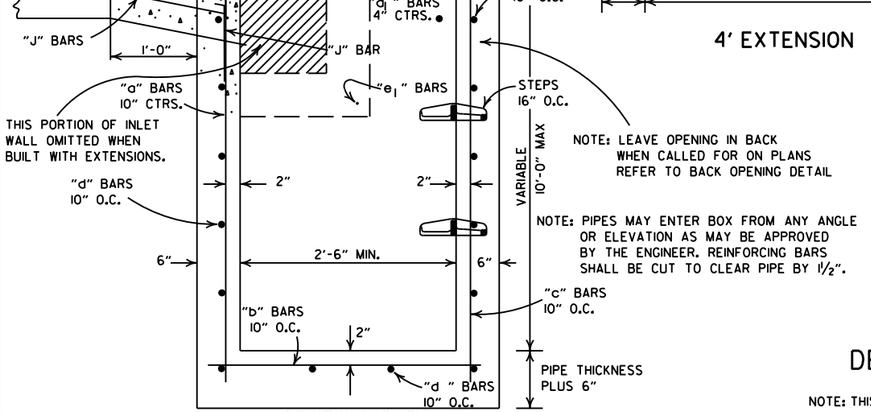
BACK OPENING

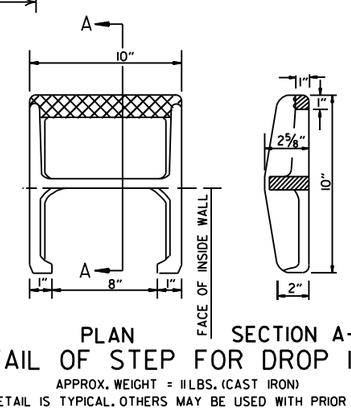
WHEN OPENING IN BACK IS CALLED FOR ON PLANS EXTEND OPENING AS SHOWN IN DETAIL. PAYMENT TO BE INCLUDED IN PRICE BID FOR DROP INLET (TYPE C).

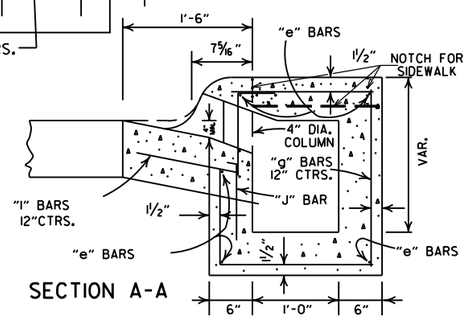


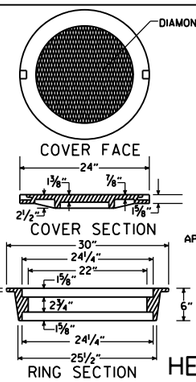












APPROXIMATE TOTAL WEIGHT = 333 LBS.

HEAVY DUTY RING & COVER

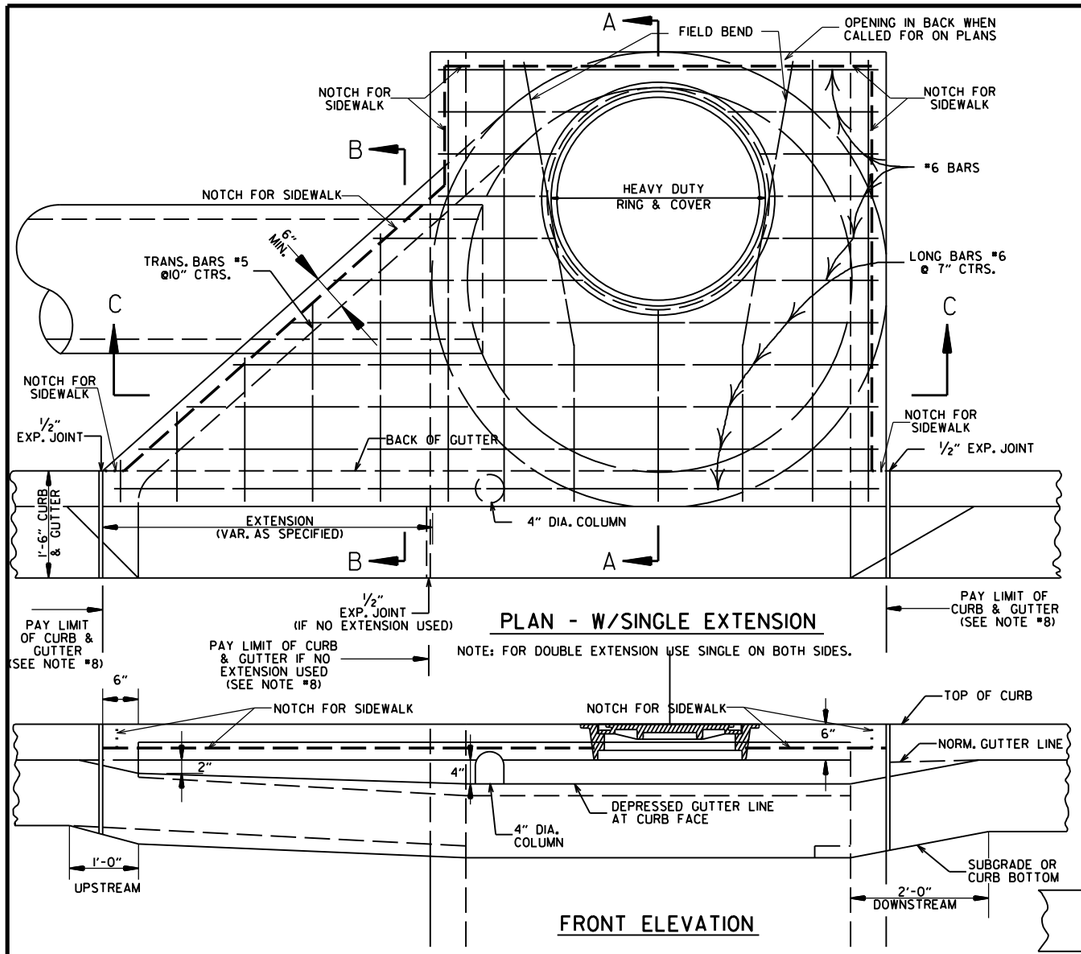
GENERAL NOTES:
1. ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER.
2. STEPS SHALL BE INSTALLED IN ALL INLETS 4'-0" HIGH AND OVER OF AS APPROVED BY THE ENGINEER.
3. ALL REINF. BARS SHALL BE #4 AND HAVE 1 1/2" COVER.
4. DROP INLETS AND EXTENSION ON CURVED SECTIONS SHALL CONFORM TO THE CURVATURE OF THE CURB.
5. THIS DROP INLET MAY BE CONSTRUCTED ON NEW OR EXISTING R.C. BOX CULVERT AS SHOWN ON F.P.C.-9.
6. WHEN PLANS CALL FOR DROP INLET OVER 10'-0" HIGH, FLOOR AND WALLS SHALL BE CONSTRUCTED AS SHOWN FOR TYPE "RM" DROP INLET (F.P.C.-9D).
7. HEAVY DUTY RING SHALL ALWAYS BE INSTALLED WITH FLANGE ON TOP.
8. DURING CONSTRUCTION OF THE ROADWAY THE CONTRACTOR SHALL MAINTAIN DRAINAGE INTO OR AROUND THE DROP INLET AS APPROVED BY THE ENGINEER.
9. PAYMENT FOR CURB AND/OR CURB AND GUTTER WITHIN THE LIMITS OF DROP INLETS AND DROP INLET EXTENSIONS SHALL BE CONSIDERED INCLUDED IN PAYMENT MADE FOR DROP INLETS AND/OR DROP INLET EXTENSIONS.
10. HEAVY DUTY RING AND COVER SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M105 CLASS 35B & AASHTO M306.
11. HEAVY DUTY RING AND COVER SHALL NOT BE PAINTED.
12. 4"x2" NOTCH SHALL BE FORMED IN ALL DROP INLETS TO SUPPORT SIDEWALK CONSTRUCTION. REFER TO DETAIL OF NOTCH FOR SIDEWALKS.
13. DIMENSIONS SHOWN FOR RING AND COVER ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR CASTINGS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR CASTING DESIGNS MAY BE MADE BY REFERRING TO PREVIOUSLY APPROVED DRAWINGS.

DATE REV.	REVISION	DATE FILMED
8-22-02	ADDED PAY LIMIT CURB NOTES TO SECTIONS A-A & B-B	
11-16-01	ADDED NOTE 13; REVISED SECTION B-B	
1-12-00	CORRECTED DIMENSION ON SECTION B-B & REVISED RING & COVER	
5-13-99	ADDED DETAIL OF NOTCH FOR SIDEWALKS	
7-02-98	REPLACED RING & COVER W/HEAVY DUTY RING & COVER ADDED NOTES 9,10,&11	
10-18-96	CORRECTED SPELLING	
4-26-96	ADDED NOTE 8 & REVISED (4')(8') EXTENSION TITLES	10-18-96
4-1-93	REVISED BACK OPENING & NOTE	
8-15-91	DELETE TYPE IV GRATE	
7-15-88	REVISED STEP DETAIL	
5-20-83	REVISED DETAILS OF GRATES (TYPE IV & IV-A)	
2-4-83	ADDED GENERAL NOTE NO. 4	
3-2-81	ADDED TYPE IV-A GRATE	
5-22-74	DELETED INLET (TYPE F) & GRATE (TYPE III)	
10-2-72	REVISED AND REDRAWN	

ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DROP INLETS (TYPE C)

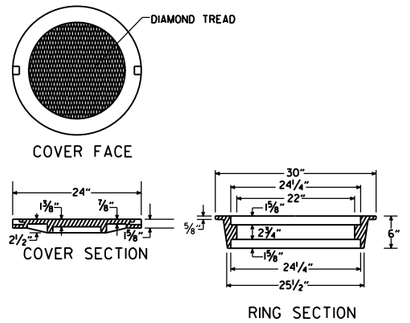
STANDARD DRAWING FPC-9E



PLAN - W/SINGLE EXTENSION

FRONT ELEVATION

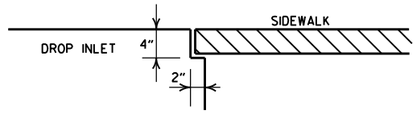
SECTION C-C



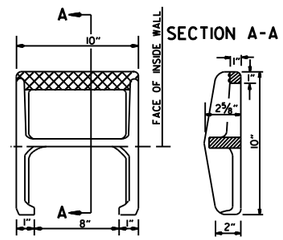
APPROXIMATE TOTAL WEIGHT = 333 LBS.

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



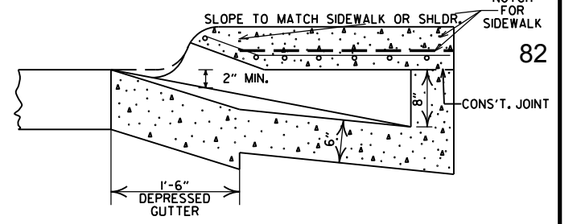
SECTION A-A

APPROX. WEIGHT = 11LBS. (CAST IRON)

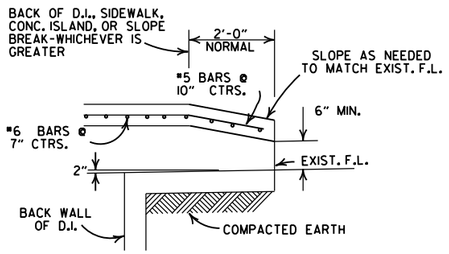
PLAN

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

DETAIL OF STEP FOR DROP INLET



SECTION B-B

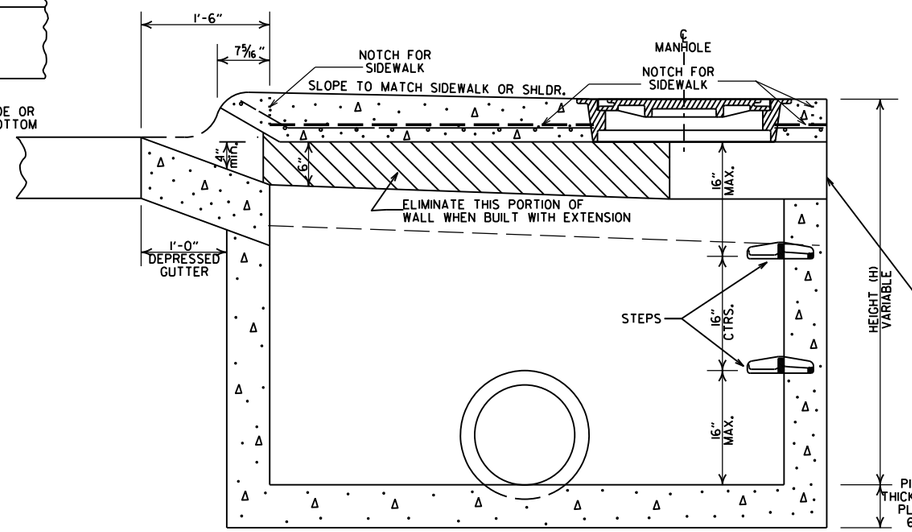


BACK OPENING

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 ¾" 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. 1½" 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.



SECTION A-A

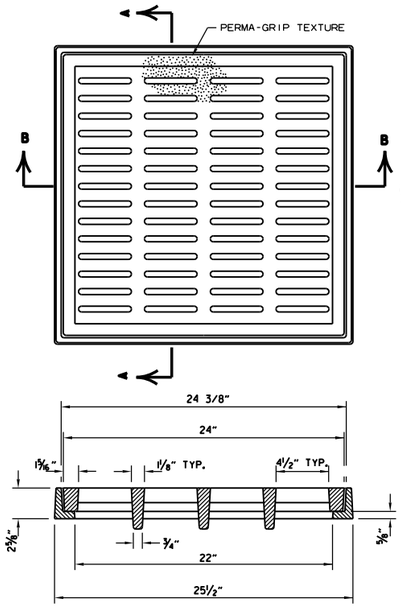
DIA. OF D.I.	DIA. OF OUTLET PIPE	MINIMUM WALL THICKNESS: CAST IN PLACE	MINIMUM WALL THICKNESS: PRECAST
4' I.D.	12" THRU 27"	6"	5"
5' I.D.	30" THRU 42"	8"	6"
6' I.D.	48" THRU 54"	8"	7"

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
8-16-91	REVISED NOTES 11,12 & ADDED BK.OPEN DETAIL	8-15-91
11-30-89	ADDED NOTE NO. 12	11-30-89
5-23-89	ADDED NOTE & MINIMUM WALL THICKNESS	513-5-23-89
7-15-88	ADDED EXTEND NOTE TO SECTION A-A	629-7-15-88
1-14-87	MODIFIED WALL THICKNESS	783-1-14-87
6-12-87	ISSUED	4-6-12-87

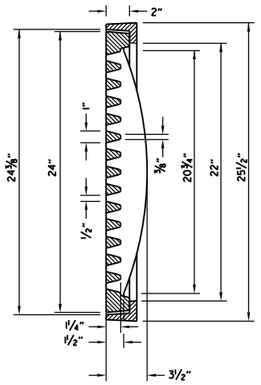
ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DROP INLET (TYPE MO)

STANDARD DRAWING FPC-9M



SECTION B-B

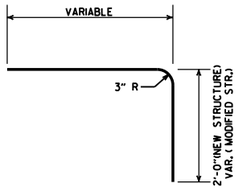


SECTION A-A

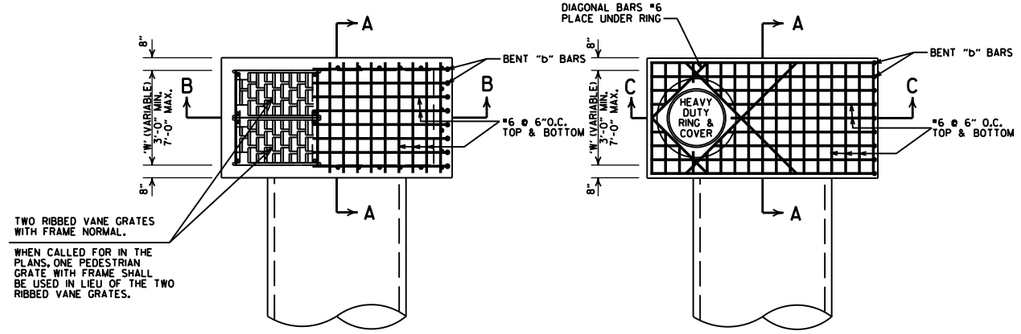
GENERAL NOTES (PEDESTRIAN GRATE & FRAME)

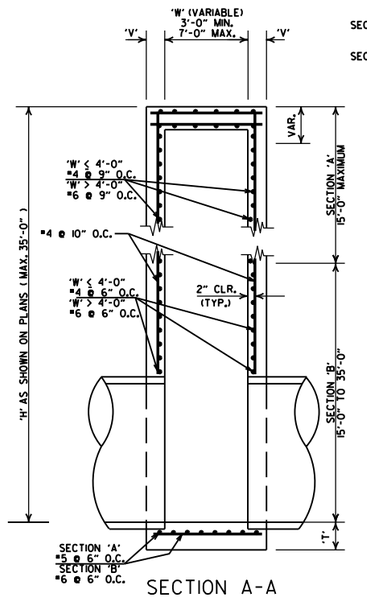
1. THE PEDESTRIAN GRATE SHALL BE ORIENTED IN THE TOP OF THE DROP INLET SO THAT THE ½" OPENINGS ARE PERPENDICULAR TO THE PATH OF PEDESTRIAN TRAVEL.
2. THE PEDESTRIAN GRATE AND FRAME SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS 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 218 LBS.
6. THE MINIMUM WATERWAY OPENING SHALL BE 122 SQ. IN.

DETAILS OF PEDESTRIAN GRATE AND FRAME

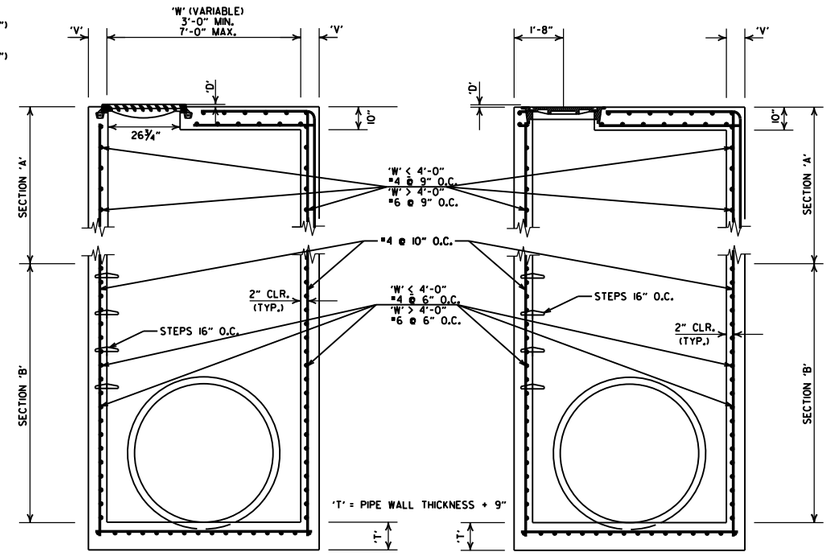


DETAIL OF BENT "b" BAR





SECTION A-A



SECTION B-B

SECTION C-C

DETAILS OF DROP INLET (TYPE ST)

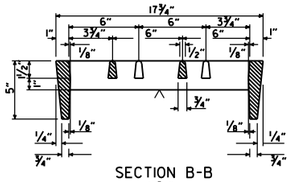
DETAILS OF JUNCTION BOX (TYPE ST)

GENERAL NOTES (TYPE ST DROP INLET & JUNCTION BOX)

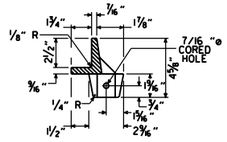
1. THE 'D' DIMENSION SHALL MATCH THE FINAL LIFT OF ACHM SURFACE COURSE SHOWN IN THE PLANS WHEN ASPHALT PAVING SURROUNDS THE GRATE OR RING COVER, AND SHALL BE 0" AT OTHER INSTALLATIONS.
2. THE STEPS SHALL BE OMITTED WHERE 'H' IS LESS THAN 4'-0".
3. ALL EXPOSED CORNERS ARE TO HAVE A ¾" CHAMFER.

GENERAL NOTES (HEAVY DUTY RING & COVER):

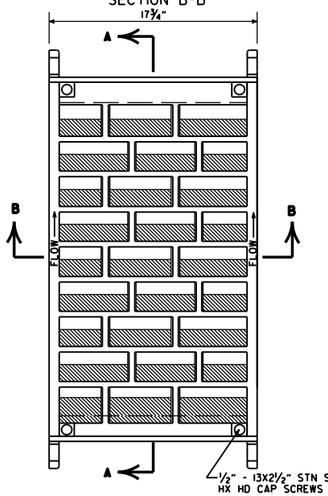
1. HEAVY DUTY RING AND COVER SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M 105, CLASS 35B, & AASHTO M 306.
2. HEAVY DUTY RING AND COVER SHALL NOT BE PAINTED.
3. HEAVY DUTY RING SHALL ALWAYS BE INSTALLED WITH FLANGE 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.

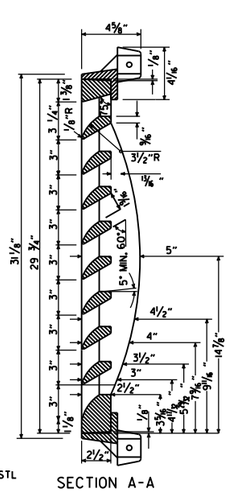


SECTION B-B



SECTION THRU FRAME



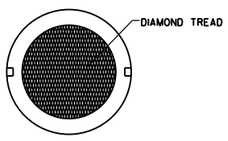


SECTION A-A

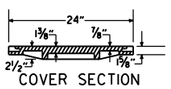
DETAILS OF RIBBED VANE GRATE AND FRAME

GENERAL NOTES (RIBBED VANE GRATE & FRAME)

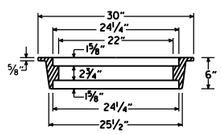
1. RIBBED VANE GRATE AND FRAME SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M 105, CLASS 35B, & AASHTO M 306.
2. GRATE AND FRAME SHALL NOT BE PAINTED.
3. GRATE AND FRAME SHALL BE INSTALLED IN DROP INLET IN ASSEMBLED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



COVER FACE



COVER SECTION



RING SECTION

HEAVY DUTY RING & COVER

APPROXIMATE TOTAL WEIGHT = 333 LBS.

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	AHTD NOMINAL	AASHTO M 206	AHTD 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	31⅜	31
48	58½	59	36	36
54	65	65	40	40
60	73	73	45	45
72	88	88	54	54
84	102	102	62	62
90	115	115	72	72
96	122	122	77½	77
108	138	138	87⅛	87
120	154	154	96⅞	97
132	168¾	169	106½	107

THE MEASURED SPAN AND RISE SHALL NOT VARY MORE THAN ± 2 PERCENT FROM THE VALUES SPECIFIED BY AASHTO M206.

REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE DIMENSIONS

EQUIV. DIA.	AASHTO M 207	
	SPAN	RISE
INCHES	INCHES	
18	23	14
24	30	19
27	34	22
30	38	24
33	42	27
36	45	29
39	49	32
42	53	34
48	60	38
54	68	43
60	76	48
66	83	53
72	91	58
78	98	63
84	106	68

THE MEASURED SPAN AND RISE SHALL NOT VARY MORE THAN ± 2 PERCENT FROM THE VALUES SPECIFIED BY AASHTO M207.

CONSTRUCTION SEQUENCE

1. PLACE STRUCTURAL BEDDING MATERIAL TO GRADE. DO NOT COMPACT.
2. INSTALL PIPE TO GRADE.
3. COMPACT STRUCTURAL BEDDING OUTSIDE THE MIDDLE THIRD OF THE PIPE.
4. PLACE AND COMPACT THE HAUNCH AREA UP TO THE MIDDLE OF THE PIPE.
5. COMPLETE BACKFILL ACCORDING TO SUBSECTION 606.03.(f)(1).

NOTE: HAUNCH AND STRUCTURAL BEDDING MATERIAL WILL NOT BE PAID FOR SEPARATELY, BUT COMPENSATION WILL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF CONCRETE PIPE.

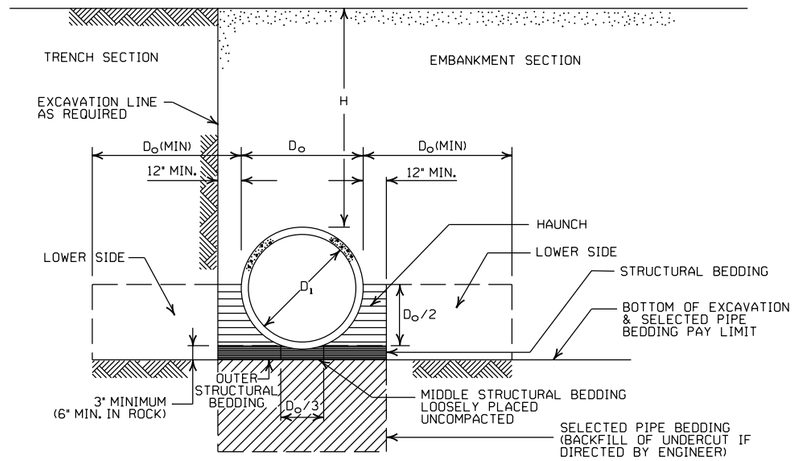
- LEGEND -

D_1 = NORMAL INSIDE DIAMETER OF PIPE
D_O = OUTSIDE DIAMETER OF PIPE
H = FILL COVER HEIGHT OVER PIPE (FEET)
MIN. = MINIMUM
▨ = UNDISTURBED SOIL

INSTALLATION TYPE	MATERIAL REQUIREMENTS FOR HAUNCH AND STRUCTURAL BEDDING
TYPE 1	AGGREGATE BASE COURSE (CLASS 5 OR CLASS 7)
TYPE 2	SELECTED MATERIALS (CLASS SM-1, SM-2, OR SM-4) OR TYPE 1 INSTALLATION MATERIAL*
TYPE 3**	AASHTO CLASSIFICATION A-1 THRU A-6 SOIL OR TYPE 1 OR 2 INSTALLATION MATERIAL

* SM-3 WILL NOT BE ALLOWED.

** MATERIALS SHALL NOT INCLUDE ORGANIC MATERIALS OR STONES LARGER THAN 3 INCHES.



EMBANKMENT AND TRENCH INSTALLATIONS

1. MATERIAL IN THE HAUNCH AND OUTER STRUCTURAL BEDDING SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OR CLASS OF MATERIAL USED.
2. FOR TRENCHES WITH WALLS OF NATURAL SOIL, THE DENSITY OF THE SOIL IN THE LOWER SIDE ZONE SHALL BE AS FIRM AS THE 95% DENSITY REQUIRED FOR THE HAUNCH. IF THE EXISTING SOIL DOES NOT MEET THIS CRITERIA, IT SHALL BE REMOVED AND RECOMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OF MATERIAL USED.
3. FOR EMBANKMENTS, THE MATERIAL IN THE LOWER SIDE ZONE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OR CLASS OF MATERIAL USED.

GENERAL NOTES

1. CONCRETE PIPE CULVERT CONSTRUCTION SHALL CONFORM TO ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION), WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS. UNLESS OTHERWISE NOTED IN THE PLANS, SECTION AND SUBSECTION REFER TO THE STANDARD CONSTRUCTION SPECIFICATIONS.
2. CONCRETE PIPE CULVERT DESIGN SHALL CONFORM TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, FIFTH EDITION (2010) WITH 2010 INTERIMS.
3. ALL PIPE SHALL CONFORM TO SECTION 606. CIRCULAR R.C. PIPE CULVERTS SHALL CONFORM TO AASHTO M170, R.C. ARCH PIPE CULVERTS SHALL CONFORM TO AASHTO M206 AND HORIZONTAL ELLIPTICAL PIPE CULVERTS SHALL CONFORM TO AASHTO M207.
4. ALL PIPE SHALL BE PROTECTED DURING CONSTRUCTION BY A COVER SUFFICIENT TO PREVENT DAMAGE FROM PASSAGE OF EQUIPMENT.
5. THE MINIMUM TRENCH WIDTH SHALL BE THE OUTSIDE DIAMETER OF THE PIPE PLUS 24 INCHES. THE MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE THE MINIMUM WIDTH PRACTICABLE FOR WORKING CONDITIONS.
6. MULTIPLE PIPE CULVERTS SHALL BE INSTALLED WITH A MINIMUM CLEARANCE OF 24 INCHES BETWEEN STRINGS OF PIPE. REFER TO STD. DWG. FES-2 FOR MINIMUM CLEARANCE WHERE FLARED END SECTIONS ARE USED.
7. IMPERVIOUS MATERIAL SHOULD BE PLACED AS DIRECTED BY THE ENGINEER AT THE ENDS OF THE CULVERT TO PREVENT LOSS OF STRUCTURAL BEDDING WHEN PERVIOUS MATERIAL IS USED FOR STRUCTURAL BEDDING AND/OR BACKFILL.
8. NOT MORE THAN ONE LIFTING HOLE MAY BE PROVIDED IN CONCRETE PIPE TO FACILITATE HANDLING. HOLE MAY BE CAST IN PLACE, CUT INTO THE FRESH CONCRETE AFTER FORMS ARE REMOVED, OR DRILLED. THE HOLE SHALL NOT BE MORE THAN TWO INCHES IN DIAMETER OR TWO INCHES SQUARE. CUTTING OR DISPLACEMENT OF REINFORCEMENT WILL NOT BE PERMITTED. SPALLED AREAS AROUND THE HOLE SHALL BE REPAIRED IN A WORKMANLIKE MANNER. LIFTING HOLE SHALL BE FILLED WITH MORTAR, CONCRETE, OR OTHER METHOD AS APPROVED BY THE ENGINEER.
9. WHEN DIRECTED BY THE ENGINEER, UNSUITABLE MATERIAL THAT IS ENCOUNTERED AT THE BOTTOM OF THE EXCAVATED TRENCH (BELOW THE AREA IDENTIFIED AS "STRUCTURAL BEDDING" ABOVE) WILL BE EXCAVATED AND REPLACED WITH SELECTED PIPE BEDDING. THE QUANTITY OF MATERIAL REQUIRED TO BACKFILL THE UNDERCUT AREA UP TO THE SELECTED PIPE BEDDING PAY LIMIT DESIGNATED ABOVE WILL BE MEASURED AND PAID FOR AS "SELECTED PIPE BEDDING."
10. WHEN THE EXISTING MATERIAL EXCAVATED FOR THE PIPE TRENCH IS DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING THE PIPE (ABOVE THE AREA IDENTIFIED ABOVE AS THE HAUNCH), BORROW MATERIAL OR MATERIAL FROM THE ROADWAY EXCAVATION WILL BE USED TO BACKFILL THE PIPE. IF SUITABLE MATERIAL IS NOT AVAILABLE, THE ENGINEER MAY AUTHORIZE THE USE OF "SELECTED PIPE BACKFILL."

MINIMUM HEIGHT OF FILL "H" OVER CIRCULAR R.C. PIPE CULVERTS

	CLASS OF PIPE			
	CLASS III		CLASS IV	CLASS V
INSTALLATION TYPE	TYPE 1 OR 2	TYPE 3	ALL	ALL
PIPE ID (IN.)	FEET			
12-15	2	2.5	2	1
18-24	2.5	3	2	1
27-33	3	4	2	1
36-42	3.5	5	2	1
48	4.5	5.5	2	1
54-60	5	7	2	1
66-78	6	8	2	1
84-108	7.5	8	2	1

NOTE: FOR MINIMUM COVER VALUES, "H" SHALL INCLUDE A MINIMUM OF 12" OF PAVEMENT AND/OR BASE.

MAXIMUM HEIGHT OF FILL "H" OVER CIRCULAR R.C. PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE		
	CLASS III	CLASS IV	CLASS V
	FEET		
TYPE 1	21	32	50
TYPE 2	16	25	39
TYPE 3	12	20	30

NOTE: IF FILL HEIGHT EXCEEDS 50 FEET, A SPECIAL DESIGN CONCRETE PIPE WILL BE REQUIRED USING TYPE 1 INSTALLATION.

MINIMUM HEIGHT OF FILL "H" OVER R.C. ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE	
	CLASS III	CLASS IV
	FEET	
TYPE 2 OR TYPE 3	2.5	1.5

NOTE: TYPE 1 INSTALLATION WILL NOT BE ALLOWED FOR ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS.

NOTE: FOR MINIMUM COVER VALUES, "H" SHALL INCLUDE A MINIMUM OF 12" OF PAVEMENT AND/OR BASE.

MAXIMUM HEIGHT OF FILL "H" OVER R.C. ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE	
	CLASS III	CLASS IV
	FEET	
TYPE 2	13	21
TYPE 3	10	16

NOTE: TYPE 1 INSTALLATION WILL NOT BE ALLOWED FOR ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS.

DATE	REVISION	DATE FILMED
2-27-14	REVISED GENERAL NOTE 1.	
12-15-11	REVISED FOR LRFD DESIGN SPECIFICATIONS	
5-18-00	REVISED TYPE 3 BEDDING & ADDED NOTE	
3-30-00	REVISED INSTALLATIONS	
11-06-97	ISSUED	

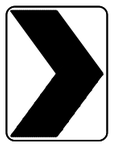
ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING

STANDARD DRAWING PCC-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.)

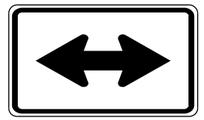
W2-1
30"X30"

S1-1
36"X36"

W3-2
36"X36"

County
Route Marker
M1-6
24"X24"

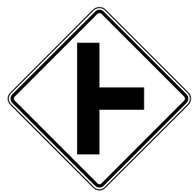
NOTE: REFLECTORIZED YELLOW LEGEND (COUNTY NAME, ROUTE LETTER & NUMBER) & BORDER ON A BLUE BACKGROUND.



M6-4
21"X15"

R2-1
24"X30"

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

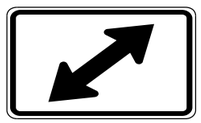


W2-2
30"X30"

W5-2
36"X36"

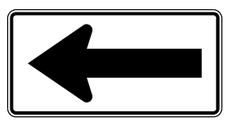
W8-3
36"X36"

R1-3P
18"X6"

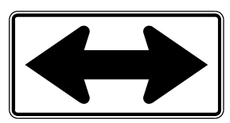


M6-5
21"X15"

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



W1-6
48"X24"

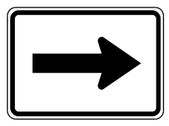


W1-7
48"X24"

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

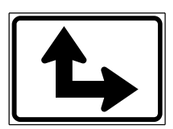
W5-3
36"X36"

W13-1P
18"X18"



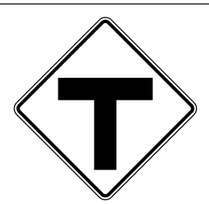
M6-1
21"X15"

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



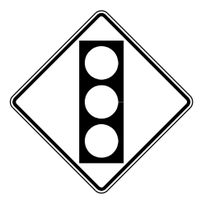
M6-6
21"X15"

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



W2-4
30"X30"

W10-1
36" DIAMETER

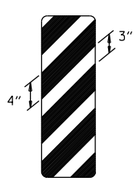


W3-3
36"X36"

M6-2
21"X15"

S4-3P
24"X8"

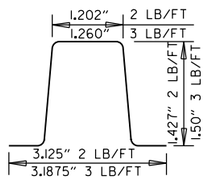
S4-2P
24"X10"



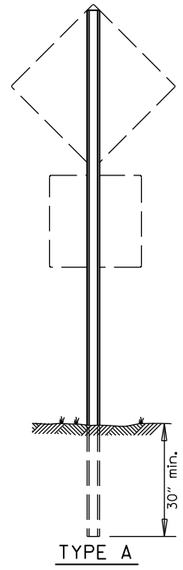
OM-3
12"X36"
(LT. or RT.)

MINIMUM DIMENSIONS SHOWN

SUPPORT SECTION

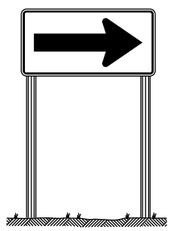


(U-CHANNEL)
STANDARD SUPPORT
ASSEMBLIES



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

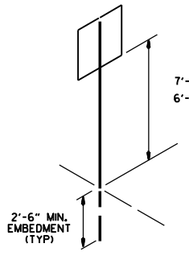
DATE	REVISION	DATE FILMED
9-12-13	DELETED JOB NO. BLOCK; REVISED RI-3 TO RI-3P	
4-17-08	REVISED SIGN DESIGNATION - W3-1 & W3-2	
4-10-03	REVISED W5-2, W8-3, OM-3; ADDED WI-8	
1-5-81	REDRAWN	960-1-15-81
9-15-78	ADDED WI4-3	877-9-15-78
9-2-76	POST WT.	623-9-3-76
5-3-76	STEEL POST WT. FROM 2"-3"; ADDED S4-2 & 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

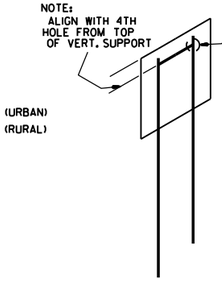
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD HIGHWAY SIGNS
AND SUPPORT ASSEMBLIES

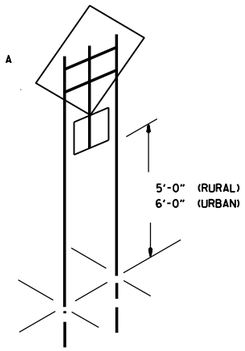
STANDARD DRAWING SHS-1



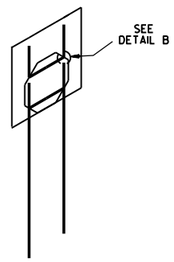
U-1



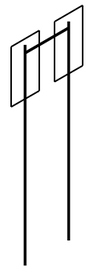
U-2



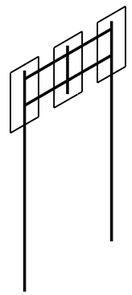
U-2 (A)



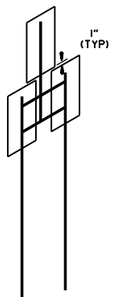
U-2 (B)



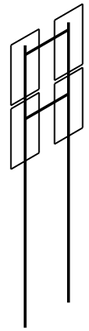
U-2 (I)



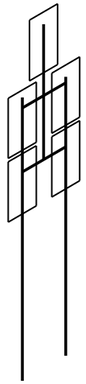
U-2 (2)



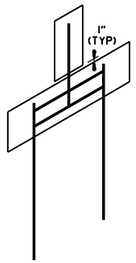
U-2 (3)



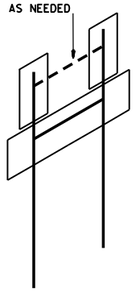
U-2 (4)



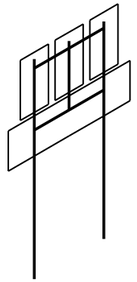
U-2 (5)



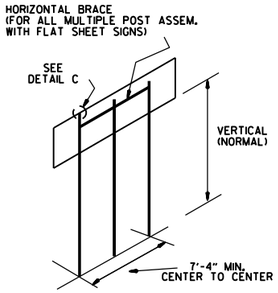
U-2 (6)



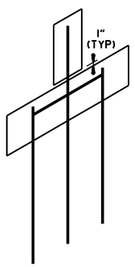
U-2 (7)



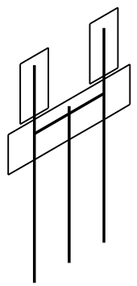
U-2 (8)



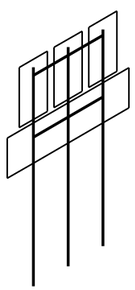
U-3



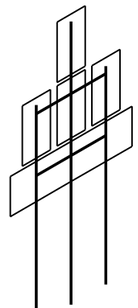
U-3 (1)



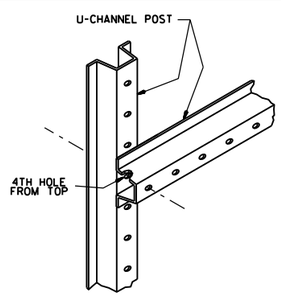
U-3 (2)



U-3 (3)

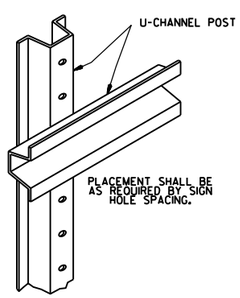


U-3 (4)



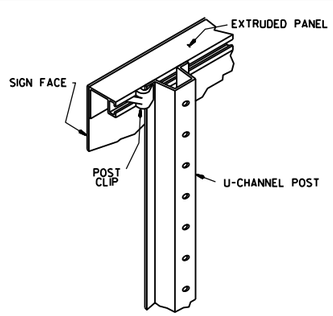
DETAIL A

SHOWING HORIZONTAL BRACE



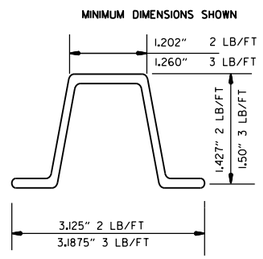
DETAIL B

SHOWING BACK-TO-BACK INSTALLATION



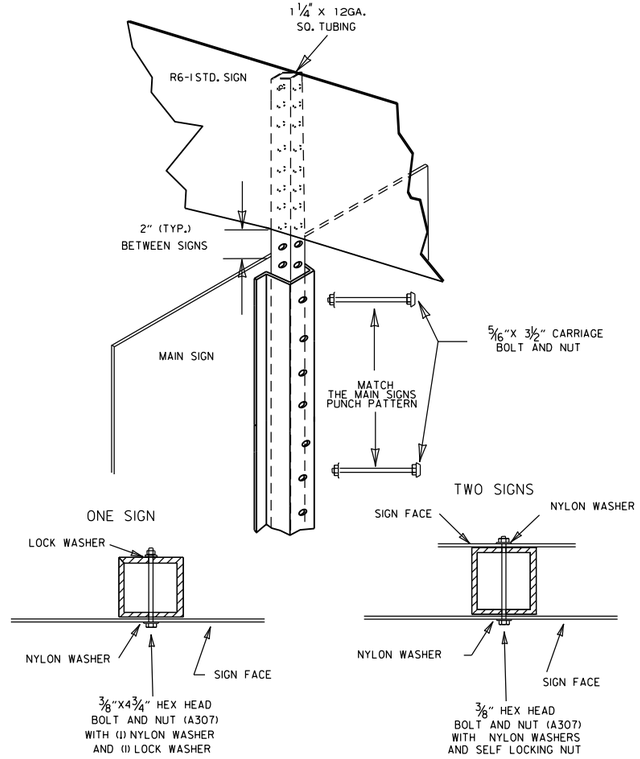
DETAIL C

SHOWING GUIDE SIGN MOUNTING WITH EXTRUDED PANELS



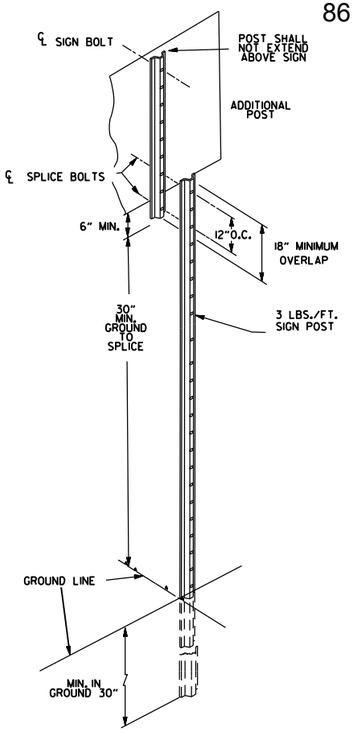
DETAIL D

U-CHANNEL POST



DETAIL E

R6-1 EXTENSION FOR U-CHANNEL POST



DETAIL F

DETAIL OF SPLICES

NOTES:

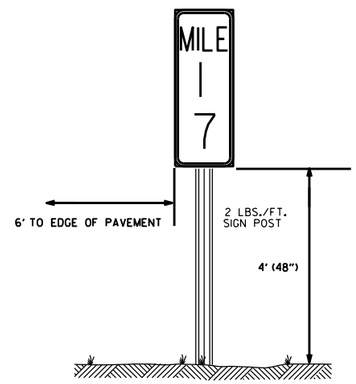
SIGNS AT LEAST 8' IN LENGTH MAY BE INSTALLED ON THREE 3 LB. POST. IN NO CASE SHALL THERE BE MORE THAN TWO 3 LB. POSTS WITHIN A 7' PATH.

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

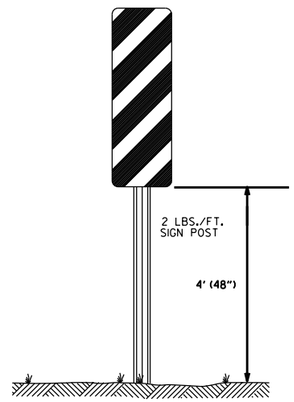
NORMAL INSTALLATIONS WILL REQUIRE 5/16" DIA. CARRIAGE BOLTS TO MOUNT SIGNS TO POST AND TO ASSEMBLE THE VARIOUS POST SUPPORTS.

ALL SIGN POSTS SHALL BE PLUMB.

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



TYPICAL MILE MARKER INSTALLATION



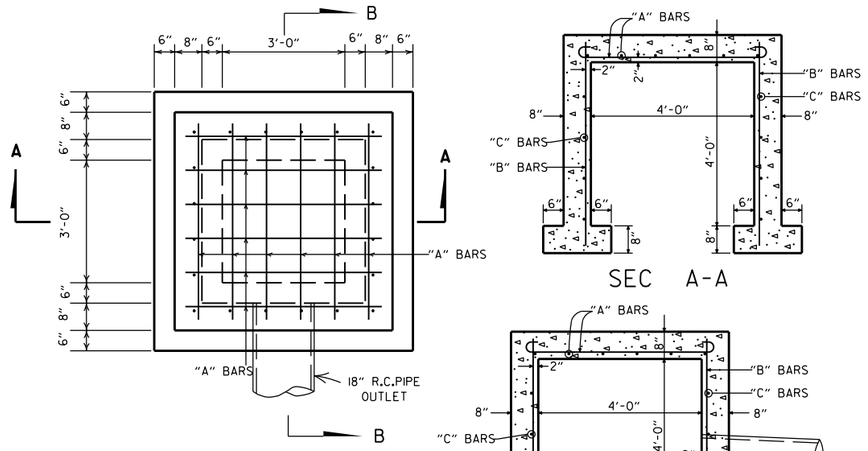
TYPICAL OM-3 INSTALLATION AT EDGE OF OBSTRUCTION

DATE	REVISION	FILMED
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

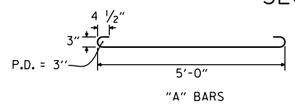


NOTE: MAX FILL HEIGHT ABOVE TOP OF BOX = 13'-0".

STEEL SCHEDULE

BARS	NUMBER	LENGTH	SPACING
"A"	12	6'-0"	10"
"B"	20	5'-0"	10 ½"
"C"	16	5'-0"	12"

ALL STEEL TO BE #4 BARS



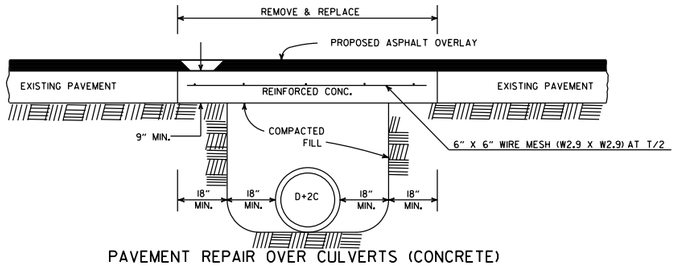
QUANTITIES

CONCRETE 3.31 CU. YDS.
REINFORCING STEEL 168 LB.

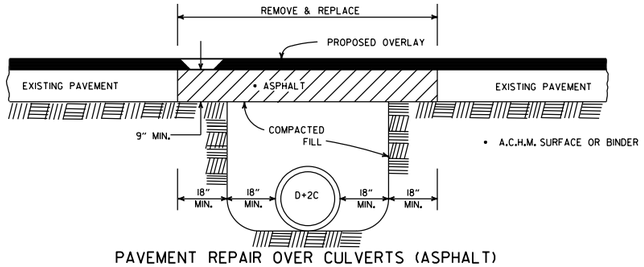
GENERAL NOTE:

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



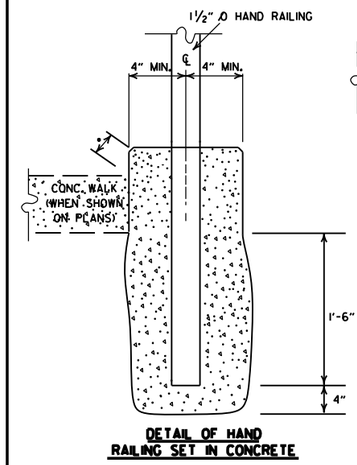
PAVEMENT REPAIR OVER CULVERTS (CONCRETE)



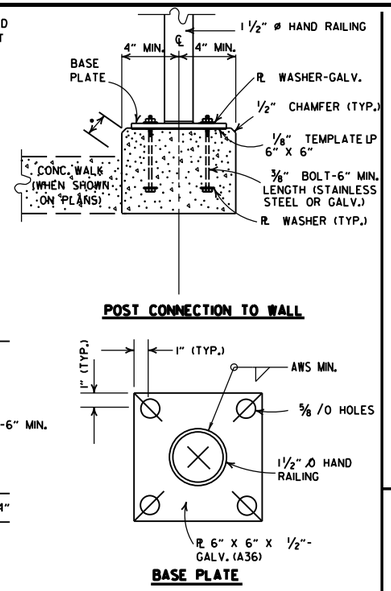
PAVEMENT REPAIR OVER CULVERTS (ASPHALT)

DETAIL SHOWING REPAIR OF EXISTING PAVEMENT AT CULVERT INSTALLATIONS

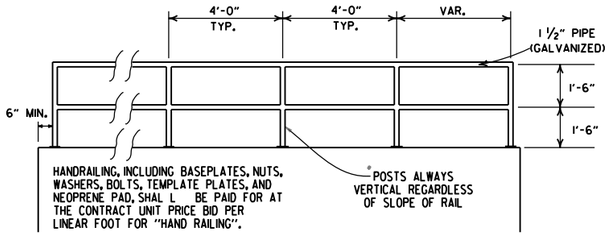
• A 2" MIN. HIGH CURB IS REQUIRED WHEN CONCRETE WALK IS ADJACENT TO THE HAND RAILING. PAYMENT FOR CURB SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR CONCRETE WALKS.



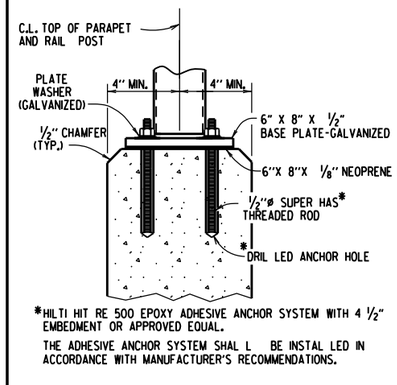
DETAIL OF HAND RAILING SET IN CONCRETE



POST CONNECTION DETAILS



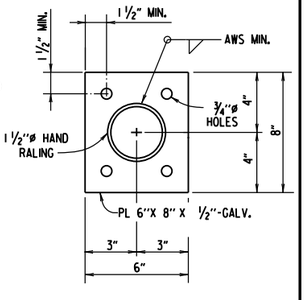
HAND RAILING SHALL CONFORM TO SECTION 633.



*HILTI HIT RE 500 EPOXY ADHESIVE ANCHOR SYSTEM WITH 4 ½" EMBEDMENT OR APPROVED EQUAL.

THE ADHESIVE ANCHOR SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

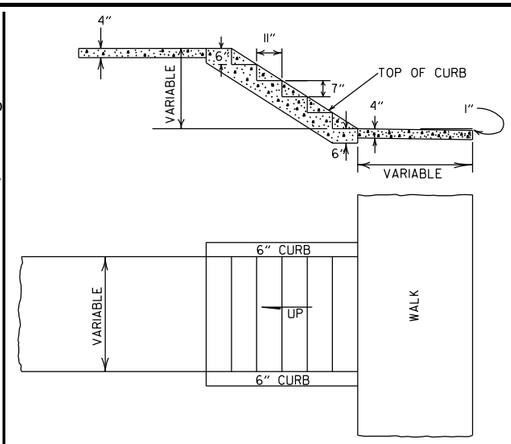
POST CONNECTION TO WALL



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

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	
4-26-94	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
DATE	REVISION	DATE FILMED

ARKANSAS STATE HIGHWAY COMMISSION

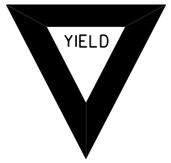
DETAILS OF SPECIAL ITEMS

STANDARD DRAWING SI - 1

RI-1

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

RI-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"

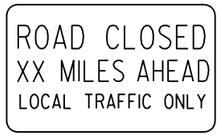
R5-1

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

RII-2

48"X30"

RII-3A



60"X30"

RII-4

60"X30"

W21-5a

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

WI-1

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

WI-2

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

WI-3

STD. 48"X48"

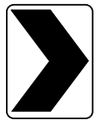
WI-4

STD. 48"X48"

WI-6

STD. 48"X24"
SPECIAL 60"X30"

WI-8



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

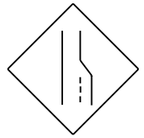
W3-1

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"

WI3-1

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"

WI-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.

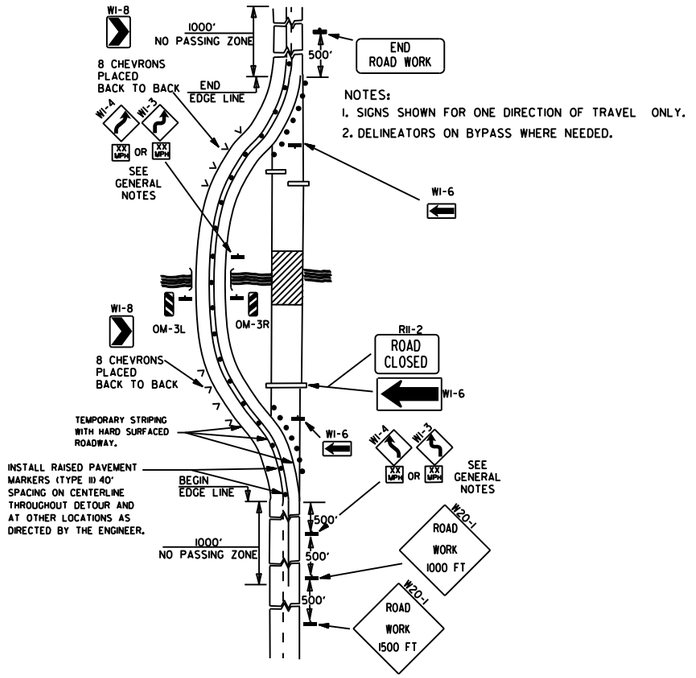
• NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM THE REQUIREMENTS SHOWN IN NOTES 4 & 5, BUT MEET THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED. COMPLIANCE WITH THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) IS REQUIRED FOR ALL PROJECTS.

DATE	REVISION	FILMED
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

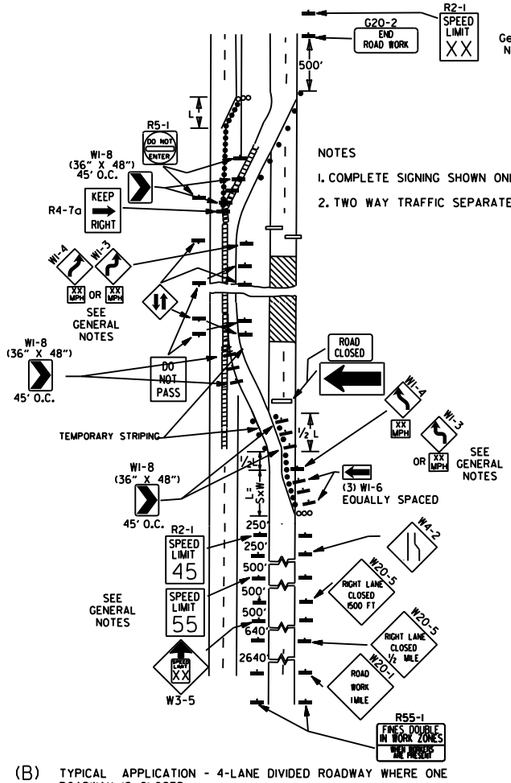
STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

STANDARD DRAWING TC-1



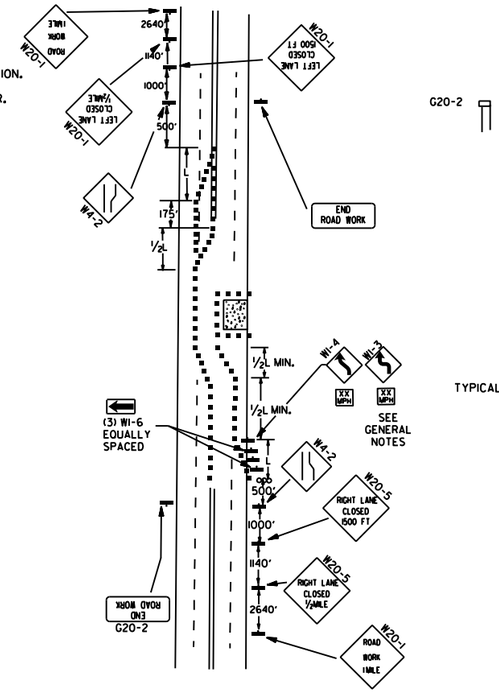
NOTES:
1. SIGNS SHOWN FOR ONE DIRECTION OF TRAVEL ONLY.
2. DELINEATORS ON BYPASS WHERE NEEDED.

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

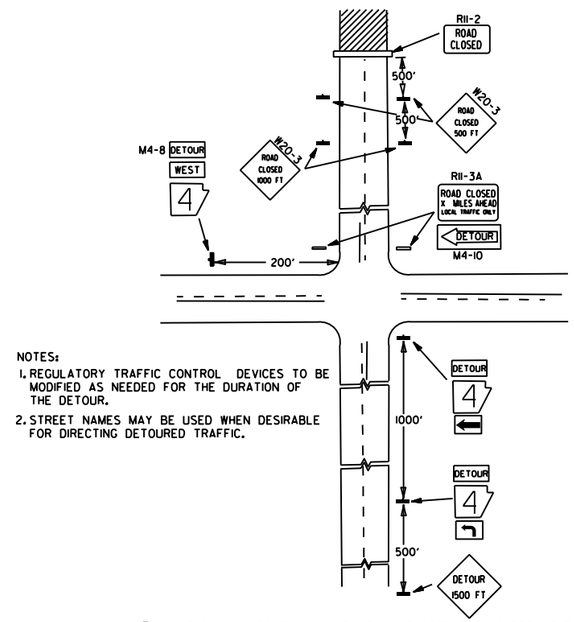


NOTES
1. COMPLETE SIGNING SHOWN ONLY IN CROSSOVER DIRECTION.
2. TWO WAY TRAFFIC SEPARATED WITH POSITIVE BARRIER.

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

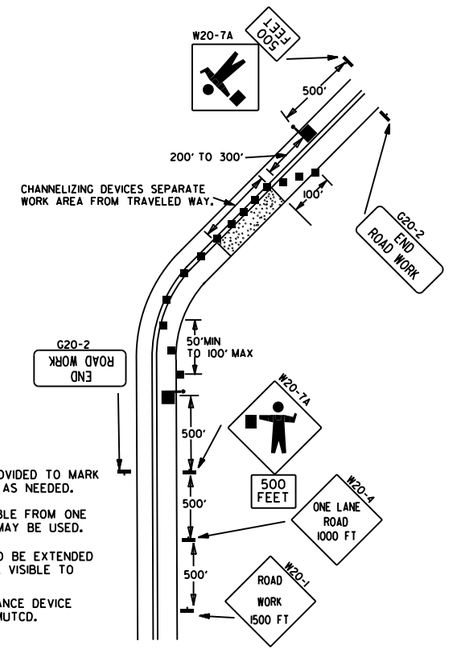


(C) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.



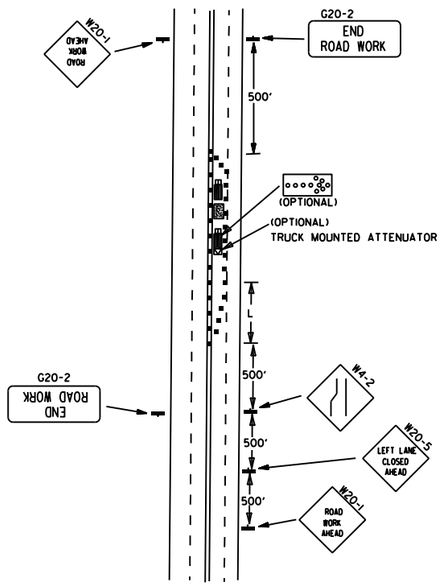
NOTES:
1. REGULATORY TRAFFIC CONTROL DEVICES TO BE MODIFIED AS NEEDED FOR THE DURATION OF THE DETOUR.
2. STREET NAMES MAY BE USED WHEN DESIRABLE FOR DIRECTING DETOURED TRAFFIC.

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

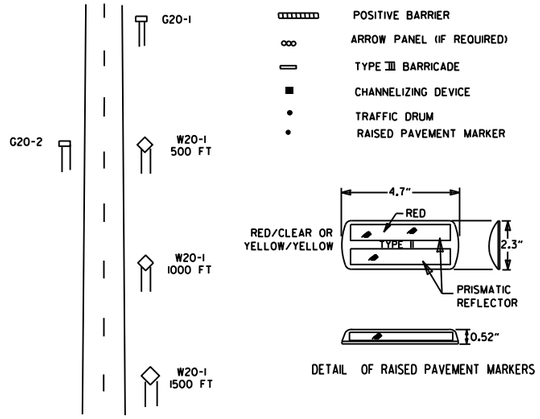


NOTES:
1. FLOOD LIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED.
2. IF ENTIRE WORK AREA IS VISIBLE FROM ONE STATION, A SINGLE FLAGGER MAY BE USED.
3. CHANNELIZING DEVICES ARE TO BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
4. AUTOMATED FLAGGER ASSISTANCE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



DETAIL OF RAISED PAVEMENT MARKERS

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.

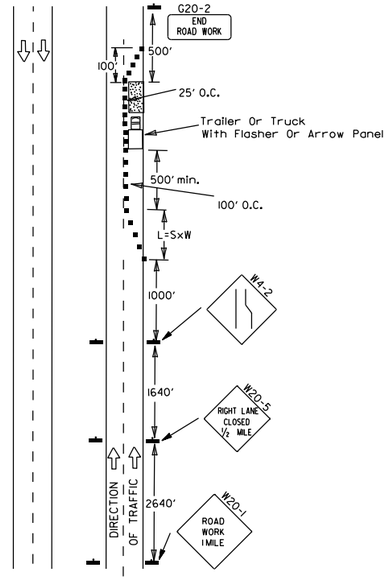
GENERAL NOTES:
1. ADVISORY SPEED POSTED ON W1-3 OR W1-4 CURVE WARNING SIGNS TO BE DETERMINED AT SITE. USE W1-4 WHEN SPEED IS GREATER THAN 30MPH AND W1-3 WHEN 30MPH OR LESS.
2. WHEN THE EXISTING SPEED LIMIT IS 55MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-1(55) SHALL BE OMITTED AND THE W3-5 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.
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 AHTD QUALIFIED PRODUCTS LIST.

DATE	REVISION	FILMED
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	

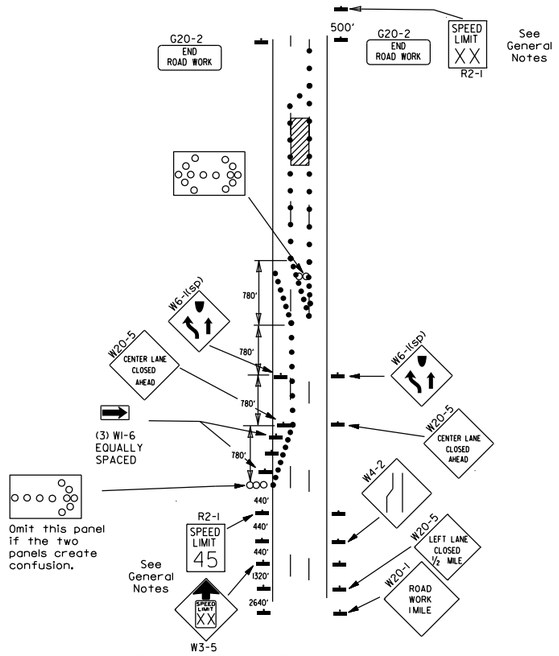
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

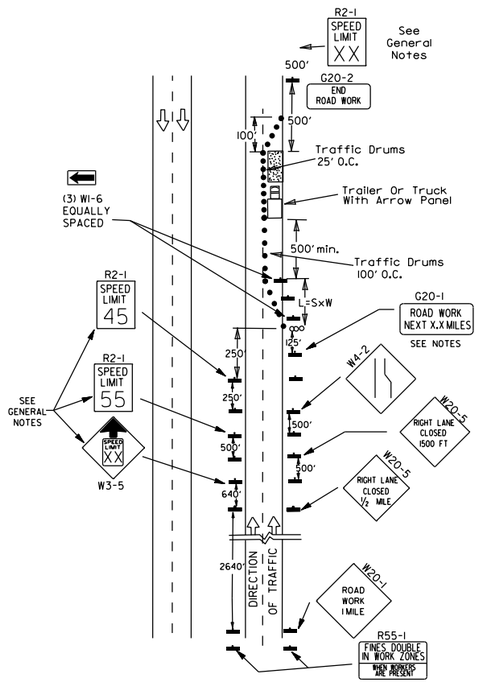
STANDARD DRAWING TC-2



(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.



(C) Typical application - construction operatipns of intermediate to long term duration on a 4-lane divided roadway where half of the roadway is closed.

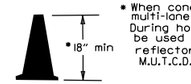
KEY:

- ○○○ Arrow Panel (If Required)
- ■ Channelizing Device
- ● Traffic drum

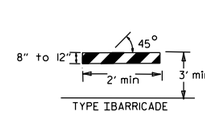
GENERAL NOTES:

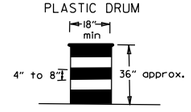
1. A speed limit reduction may be implemented ONLY when designated in the plan or when recommended by the Roadway Design Division.
2. When the existing speed limit is 55mph and the plans require a speed limit of 45mph, the R2-1(55) shall be omitted and the W3-5 shall be installed at that location. Additional R2-1 45mph speed limit signs shall be installed at a maximum of 1 mile 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 1 mile 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 NCHRP-350 or 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.

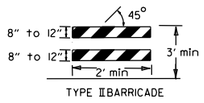
Channelizing devices

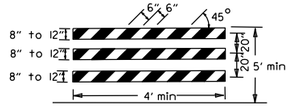


* When cones are used on freeways and multi-lane highways, they shall be 28" min. During hours of darkness, 28" cones shall be used on all roadways, and shall be reflectorized in accordance with the M.U.T.C.D.

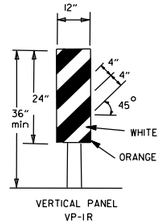








NOTE:
For all road closures, the Type III barricades shall be of sufficient length to extend across entire roadway.

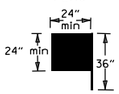


TRAFFIC CONTROL DEVICES
FOR
VERTICAL PAVEMENT DIFFERENTIALS

VERTICAL DIFFERENTIAL	LOCATIONS	TRAFFIC CONTROL
1" to 3"	Centerline, lane lines	W8-11
1" to 3"	Edge of shoulder	W8-9
Greater than 3"	Lane lines	Standard lane closure required
Greater than 3"	Edge of traveled lane	*RSP-1 and vertical panels, drums or concrete barrier
Greater than 3"	Edge of shoulder	*Vertical panels, drums or concrete barrier

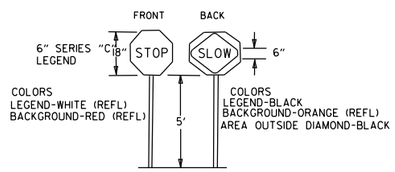
* When shown on the plans concrete barrier will be used.
When the shoulder area is used as part of the traveled lane and there is insufficient width to place drums on the remaining shoulder width, then vertical panels shall be used.

FLAG

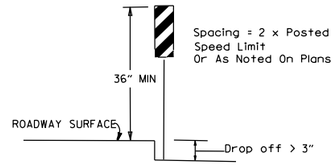


Flag shall be of good grade red material

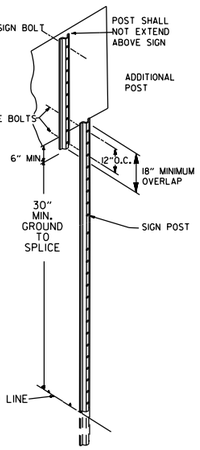
STOP SLOW PADDLE



VERTICAL PANEL PLACEMENT



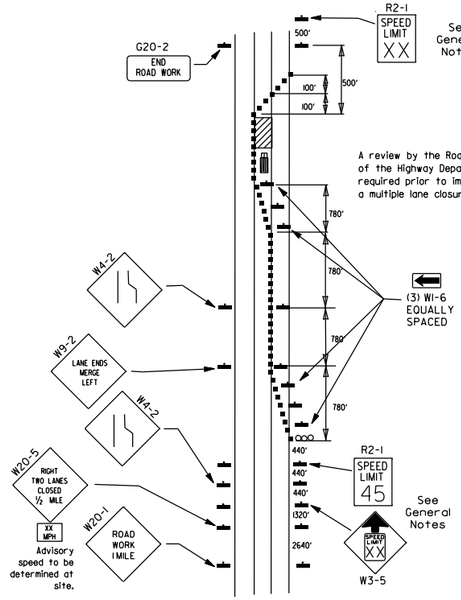
DETAIL OF SPLICES



NOTES: USE SPLICES ONLY WHEN NECESSARY FOR INSTALLATION. TYPICAL INSTALLATION SHOULD HAVE NO SPLICES (SEE STD. DRAWING NO. SHS-2)

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.



(D) Typical application - closing multiple lanes of a multilane highway.

DATE	REVISION	FILMED
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	

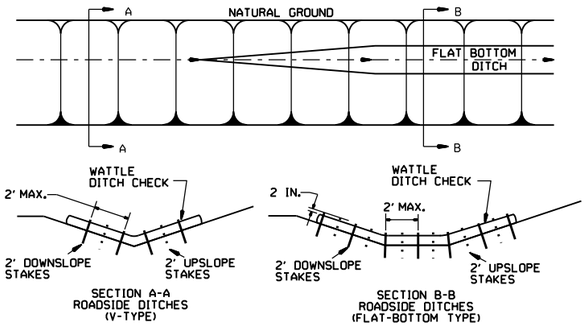
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

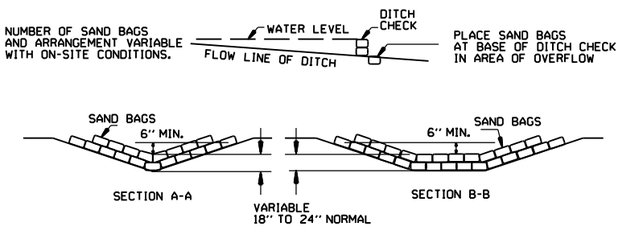
STANDARD DRAWING TC-3

GENERAL NOTES

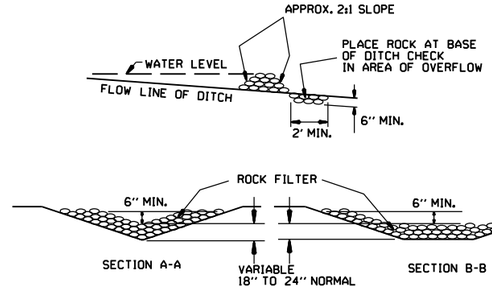
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.



WATTLE DITCH CHECK (E-1)



SAND BAG DITCH CHECK (E-5)

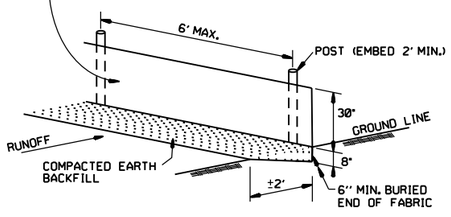


ROCK DITCH CHECK (E-6)

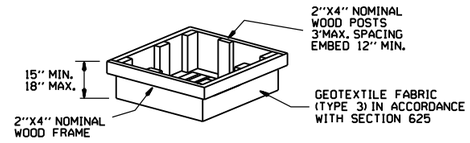
GENERAL NOTES

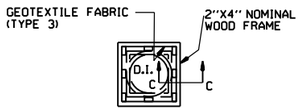
GEOTEXTILE FABRIC (TYPE 4) IN ACCORDANCE WITH SECTION 625

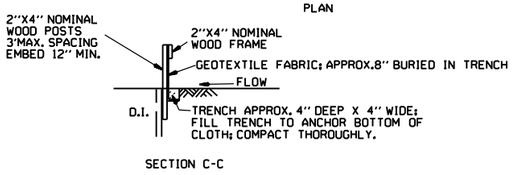
GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.



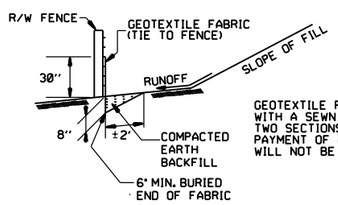
SILT FENCE (E-11)





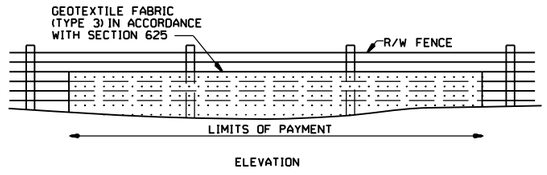


DROP INLET SILT FENCE (E-7)



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.



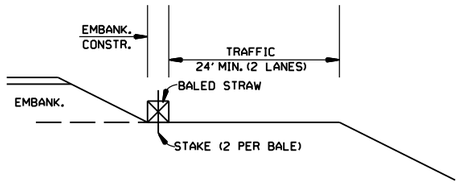
SILT FENCE ON R/W FENCE (E-4)

GENERAL NOTES

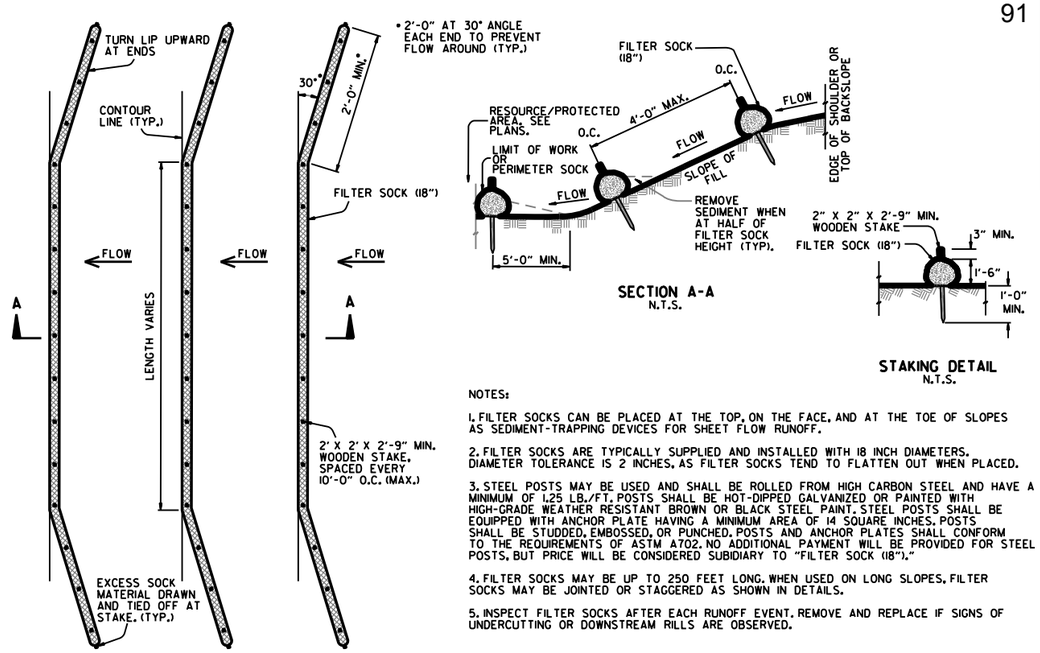
1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.

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)



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.

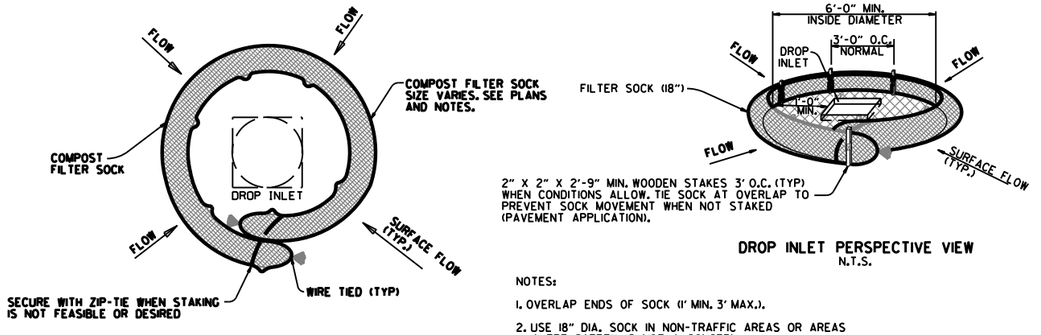
2. FILTER SOCKS ARE TYPICALLY SUPPLIED AND INSTALLED WITH 18 INCH DIAMETERS. DIAMETER TOLERANCE IS 2 INCHES, AS FILTER SOCKS TEND TO FLATTEN OUT WHEN PLACED.

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)



NOTES:

1. OVERLAP ENDS OF SOCK (1' MIN. 3' MAX.).

2. USE 18" DIA. SOCK IN NON-TRAFFIC AREAS OR AREAS WHERE SAFETY IS NOT A CONCERN.

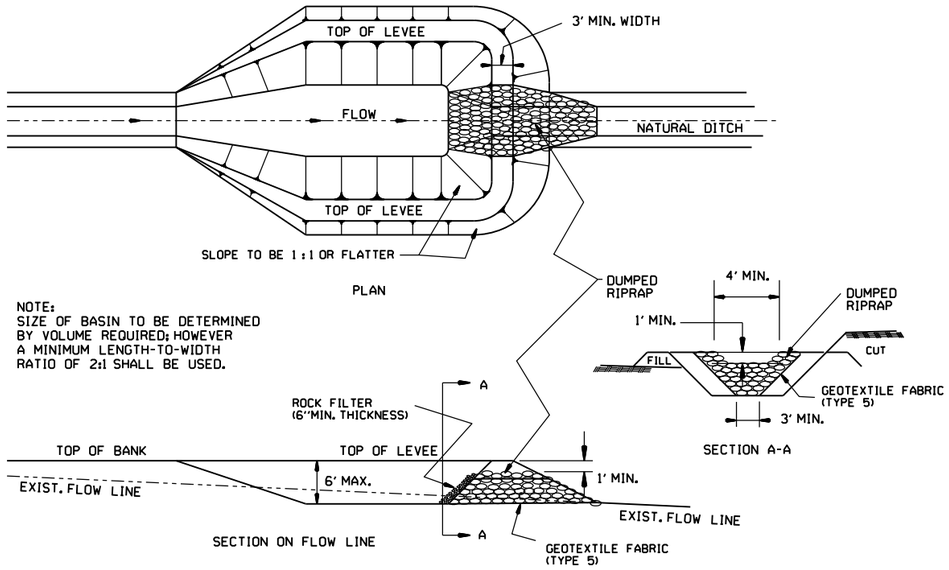
COMPOST FILTER SOCK DROP INLET PROTECTION (E-13)

DATE	REVISION	FILMED
11-16-17	ADDED FILTER SOCK E-3 AND E-13	
12-15-11	DELETED BALED STRAW DITCH CHECK & ADDED WATTLE DITCH CHECK	
11-18-98	ADDED NOTES	
07-02-98	ADDED BALED STRAW FILTER BARRIER (E-2)	
07-20-95	REVISED SILT FENCE E-4 AND E-11	7-20-95
07-15-94	REV. E-4 & E-11 MIN. 13" BURIED END OF FABRIC	
06-02-94	REVISED E-1,4,7 & 11; DELETED E-2 & 3	6-2-94
04-01-93	REDRAWN	
10-01-92	REDRAWN	
08-02-76	ISSUED R.D.M.	298-7-28-76

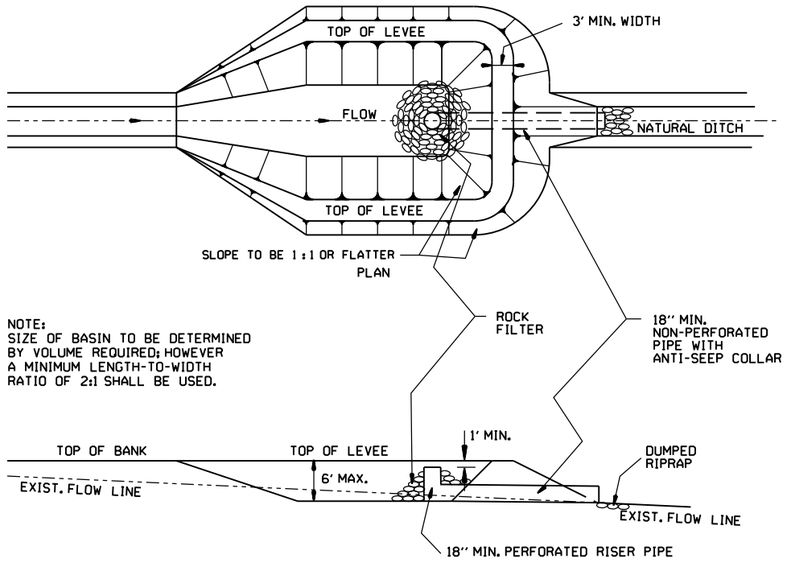
ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

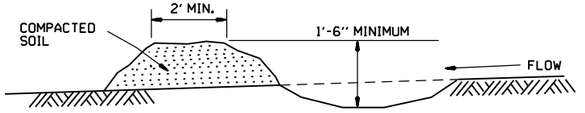
STANDARD DRAWING TEC-1



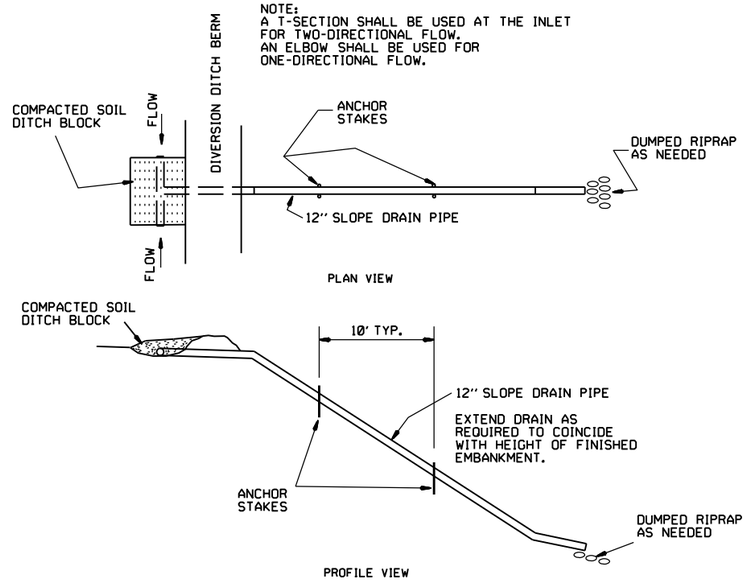
SEDIMENT BASIN WITH RIPRAP OUTLET (E-9)



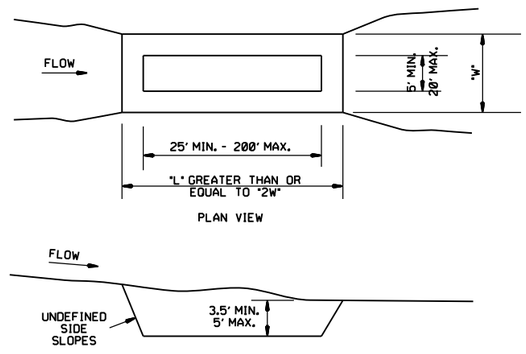
SEDIMENT BASIN WITH PIPE OUTLET (E-10)



DIVERSION DITCH (E-8)



SLOPE DRAIN (E-12)



SEDIMENT BASIN (E-14)

DATE	REVISION	FILMED
6-2-94	Revised E-8 & E-12; Added E-14 & Deleted E-13	
4-1-93	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

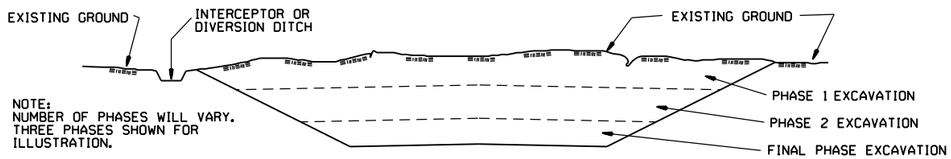
STANDARD DRAWING TEC-2

CLEARING AND GRUBBING

CONSTRUCTION SEQUENCE

1. PLACE PERIMETER CONTROLS (I.E. SILT FENCES , DIVERSION DITCHES, SEDIMENT BASINS, ETC.)
2. PERFORM CLEARING AND GRUBBING OPERATION.

EXCAVATION



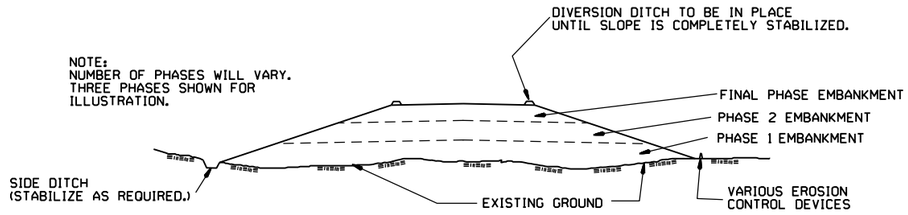
GENERAL NOTE

ALL CUT SLOPES SHALL BE DRESSED, PREPARED, SEEDED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE EXCAVATED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

CONSTRUCTION SEQUENCE

1. EXCAVATE AND STABILIZE INTERCEPTOR AND/OR DIVERSION DITCHES.
2. PERFORM PHASE 1 EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING.
3. PERFORM PHASE 2 EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING.
4. PERFORM FINAL PHASE OF EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING. STABILIZE DITCHES. CONSTRUCT DITCH CHECKS, DIVERSION DITCHES, SEDIMENT BASINS, OR OTHER EROSION CONTROL DEVICES AS REQUIRED.

EMBANKMENT



GENERAL NOTE

ALL EMBANKMENT SLOPES SHALL BE DRESSED, PREPARED, SEEDED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE CONSTRUCTED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

CONSTRUCTION SEQUENCE

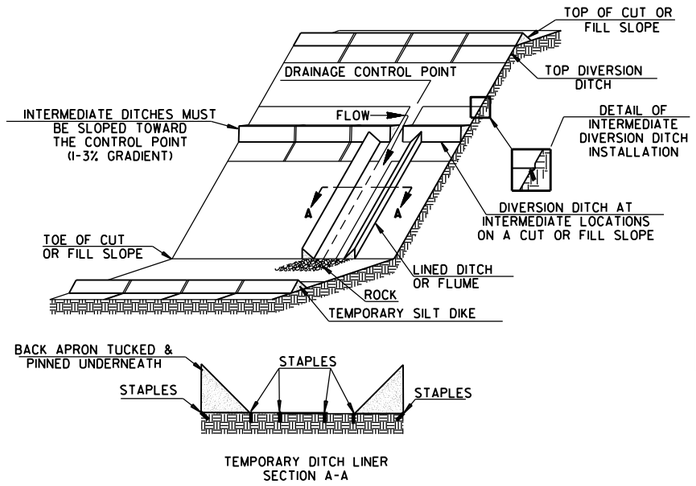
1. CONSTRUCT DIVERSION DITCHES, DITCH CHECKS, SEDIMENT BASINS, SILT FENCES, OR OTHER EROSION CONTROL DEVICES AS SPECIFIED.
2. PLACE PHASE 1 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 21 DAYS.
3. PLACE PHASE 2 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 21 DAYS.
4. PLACE FINAL PHASE OF EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PLACE DIVERSION DITCHES AND SLOPE DRAINS AND MAINTAIN UNTIL ENTIRE SLOPE IS STABILIZED.

DATE	REVISION	FILMED
11-03-94	CORRECTED SPELLING	
6-2-94	Drawn & Issued	6-2-94

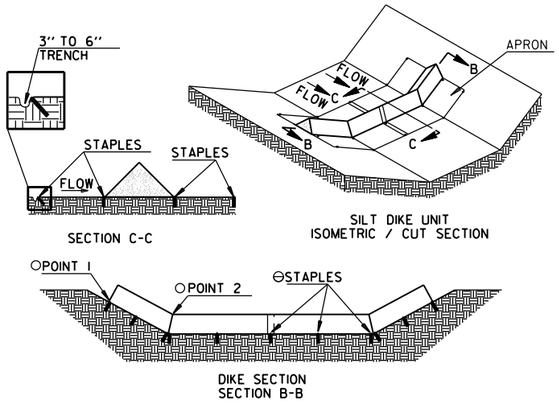
ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

STANDARD DRAWING TEC-3



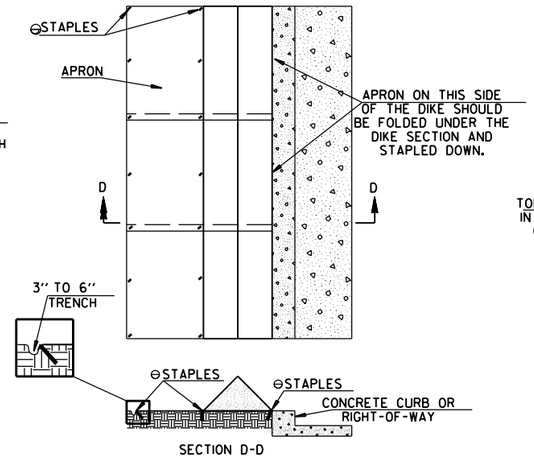
TRIANGULAR SILT DIKE INSTALLATION FOR DIVERSION DITCH AND/OR DITCH LINER



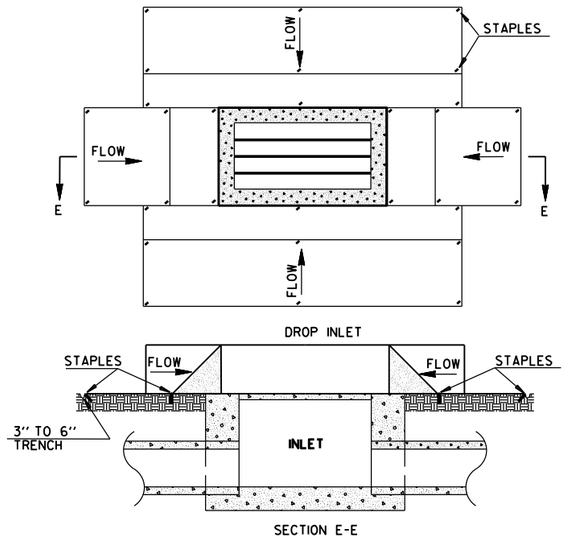
TRIANGULAR SILT DIKE INSTALLATION FOR ROADWAY DITCH OR DRAINAGE DITCH

○ POINT "1" MUST BE HIGHER THAN POINT "2" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.

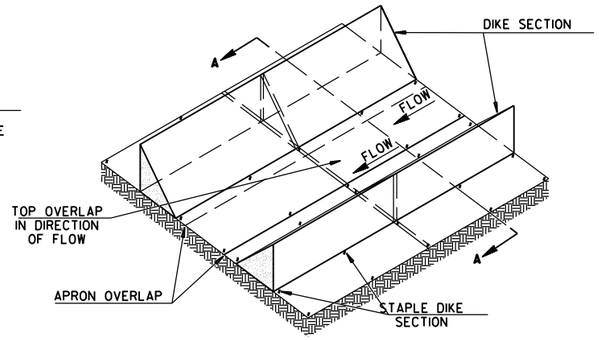
⊖ STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND IN THE CENTER OF THE UNIT AS SHOWN ON THE DIAGRAM.



TRIANGULAR SILT DIKE INSTALLATION FOR CONTINUOUS BARRIER



TRIANGULAR SILT DIKE INSTALLATION FOR DROP INLETS



TRIANGULAR SILT DIKE INSTALLATION FOR TEMPORARY DITCH LINER

GENERAL NOTES

1. THIS WORK SHALL CONSIST OF FURNISHING, INSTALLING, AND MAINTAINING THE TRIANGULAR SILT DIKE. THE DIKES SHALL BE USED AS A CONTINUOUS LINE BARRIER AT THE TOE OF SLOPE OR ACROSS THE ROADWAY DITCH TO CONTAIN SEDIMENT AND MINIMIZE EROSION, OR AS DIRECTED BY THE ENGINEER. THESE DIKES SHALL BE INSTALLED AND LOCATED AS SOON AS CONSTRUCTION WILL ALLOW OR AS DIRECTED BY THE ENGINEER.

2. TRIANGULAR SILT DIKE SHALL BE TRIANGULAR SHAPED HAVING A HEIGHT OF AT LEAST 8" TO 10" IN THE CENTER WITH EQUAL SIDES AND A 16" TO 20" BASE. THE TRIANGULAR SHAPED INNER MATERIAL SHALL BE URETHANE FOAM. THE OUTER COVER SHALL BE A WOVEN GEOTEXTILE FABRIC PLACED AROUND THE INNER MATERIAL & ALLOWED TO EXTEND BEYOND BOTH SIDES OF THE TRIANGLE 24" TO 36". THIS FABRIC SHOULD BE MILDEW RESISTANT, ROT-PROOF AND RESISTANT TO HEAT AND ULTRAVIOLET RADIATION MEETING REQUIREMENTS FOR SEDIMENT CONTROL IN AASHTO M288. THE DIKES SHALL BE ATTACHED TO THE GROUND WITH WIRE STAPLES. THE STAPLES SHALL BE NO. 11 GAUGE WIRE AND BE AT LEAST 6" TO 8" LONG. STAPLES SHALL BE PLACED AS SHOWN ON THESE DETAILS.

   THE CONTRACTOR SHALL INSPECT ALL DIKES AFTER EACH RAINFALL EVENT OF AT LEAST 0.5" OR GREATER. ANY DEFICIENCIES OR DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR. ACCUMULATED SILT OR DEBRIS SHALL BE REMOVED AND RELOCATED AS DIRECTED BY THE ENGINEER. IF THE DIKES ARE DAMAGED OR INADVERTENTLY MOVED DURING THE SILT REMOVAL PROCESS, THE CONTRACTOR SHALL IMMEDIATELY REPLACE AFTER DAMAGE OCCURS.

3. ACCEPTED TRIANGULAR SILT DIKE, MEASURED AS PROVIDED ABOVE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID FOR TRIANGULAR SILT DIKE. PRICE BID WILL INCLUDE THE COST OF FURNISHING THE DIKES, INSTALLING, MAINTAINING AND REMOVAL WHEN DIRECTED BY THE ENGINEER.

SYMBOLOGY
SYMBOL TO BE USED TO DENOTE DEVICE ON PLANS

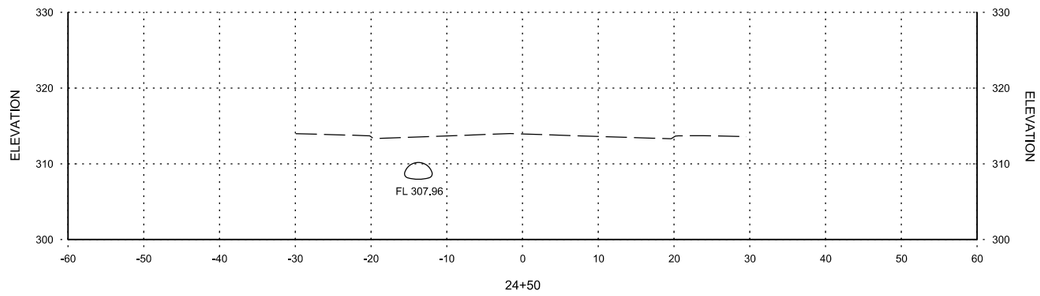
NOTE: SILT DIKE SHOULD ONLY BE USED FOR DROP INLETS IN SUMP LOCATIONS.

DATE	REVISION	FILMED
7-26-12	REVISED GENERAL NOTE 2.	
12-15-11	ISSUED	

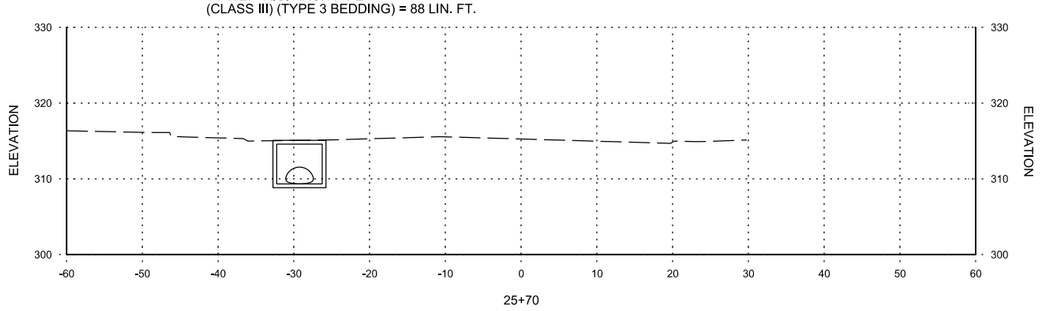
ARKANSAS STATE HIGHWAY COMMISSION

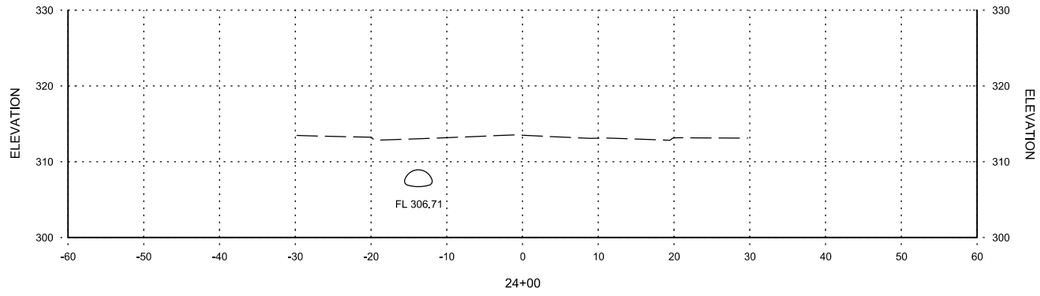
TEMPORARY EROSION CONTROL DEVICES

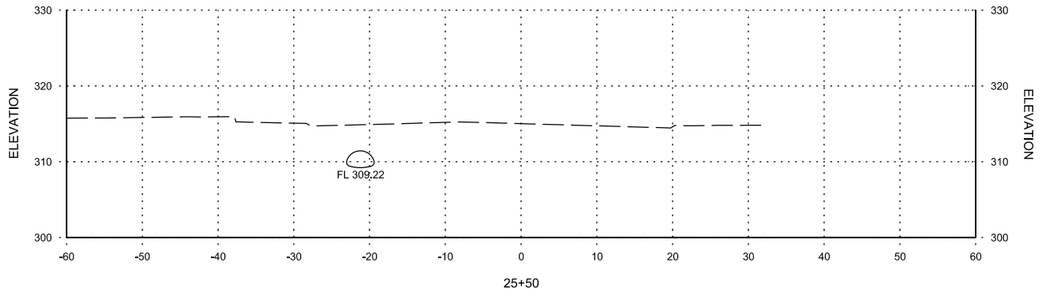
STANDARD DRAWING TEC-4

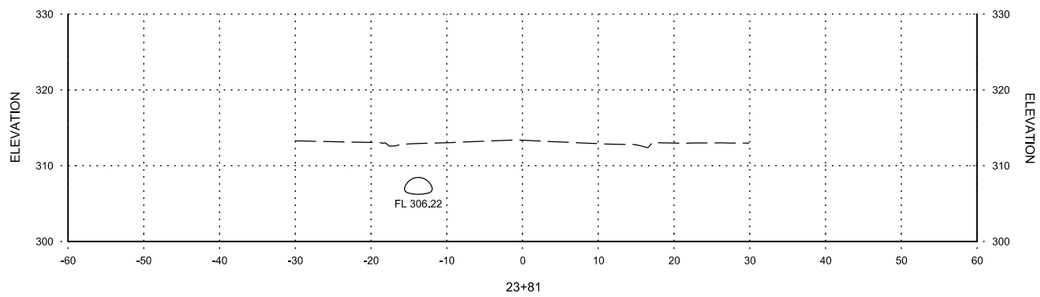


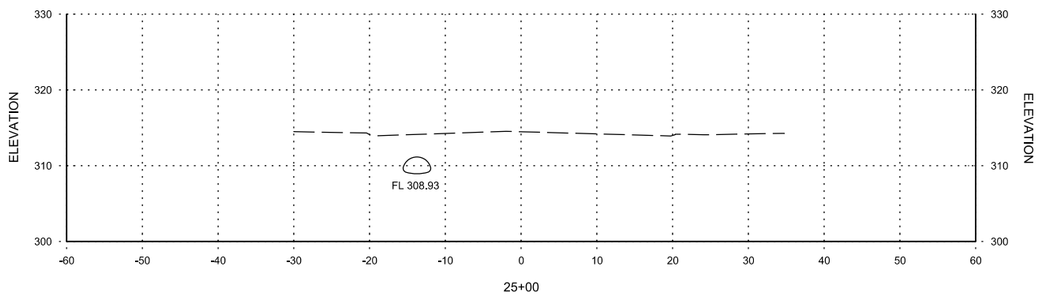
STA. 25+70.00 CONSTRUCT
TYPE ST JUNCTION BOX 29.25' LT.
WITH 44" x 27" x 88' R.C. ARCH PIPE TO
JUNCTION BOX AT STA. 24+88.00 LT.
(3' x 6' x H = 5'-9")
44" x 27" R.C. ARCH PIPE
(CLASS III) (TYPE 3 BEDDING) = 88 LIN. FT.

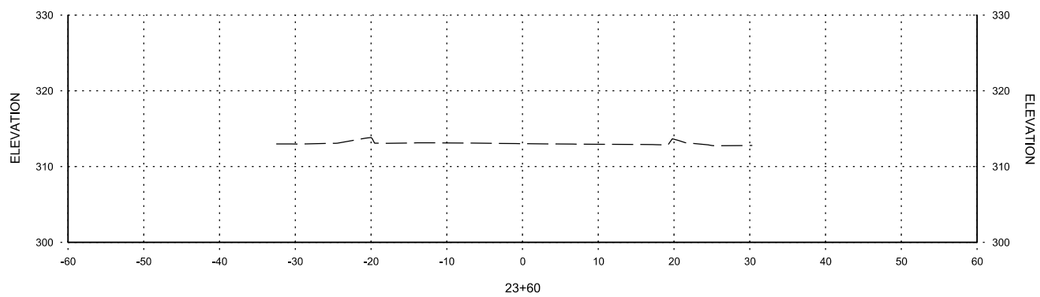


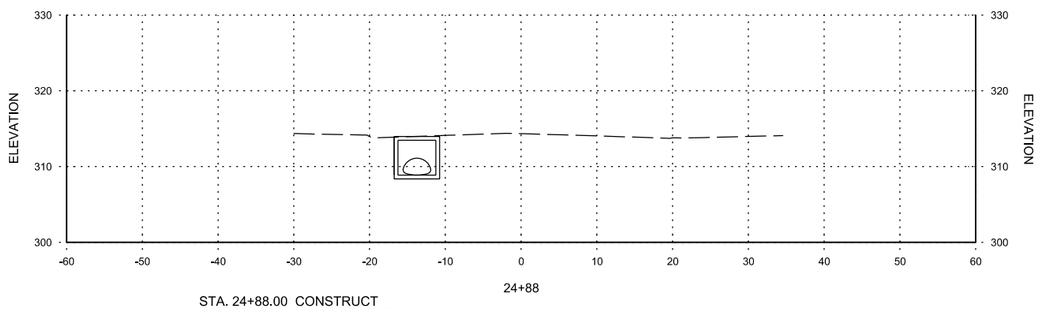












STA. 24+88.00 CONSTRUCT
TYPE ST JUNCTION BOX 13.75' LT.
WITH 44" x 27" x 106' R.C. ARCH PIPE TO
EXISTING DROP INLET AT STA. 23+77.85 LT.
(3' x 5' x H = 5'-1")
44" x 27" R.C. ARCH PIPE
(CLASS III) (TYPE 3 BEDDING) = 106 LIN. FT.

STA. 23+60 TO STA. 25+70

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

MARKHAM STREET
CROSS
SECTIONS

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

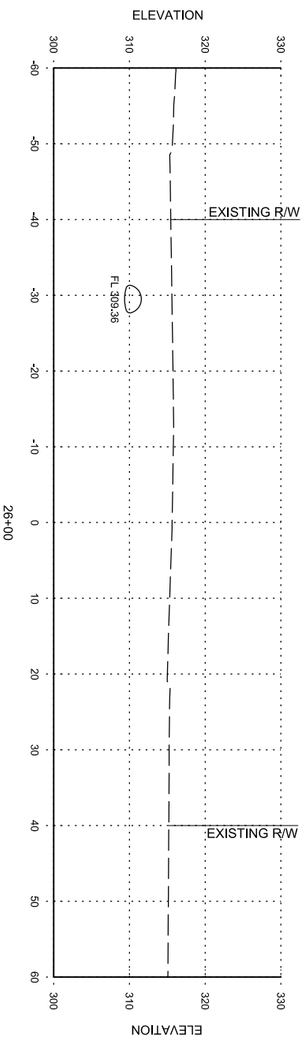
BAR IS ONE INCH ON
ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY.

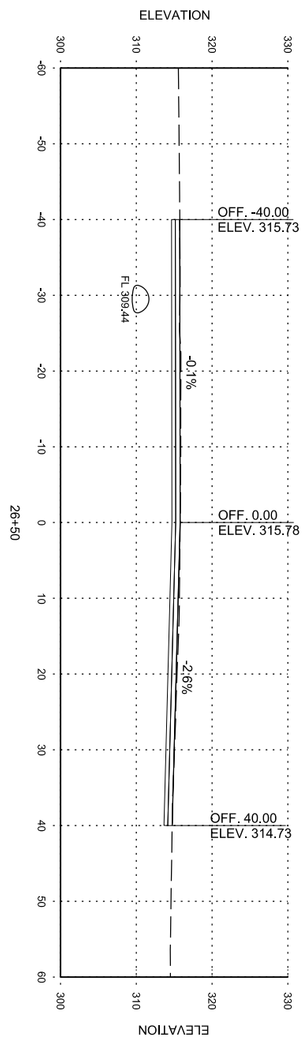
DRAWING NUMBER
CX-01

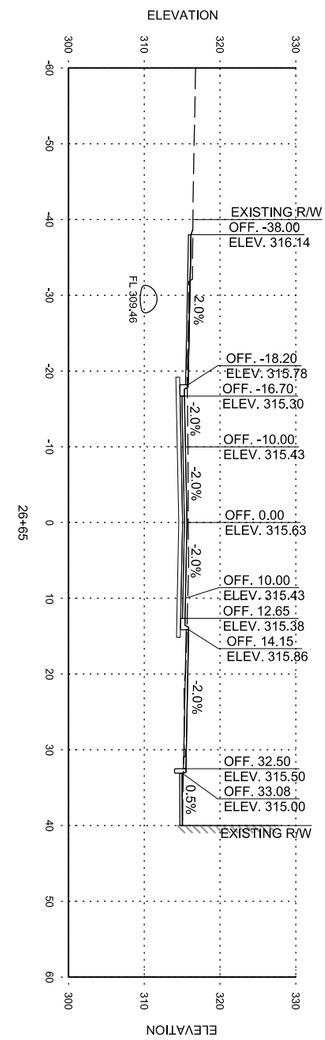
SHEET
NUMBER **CX1**

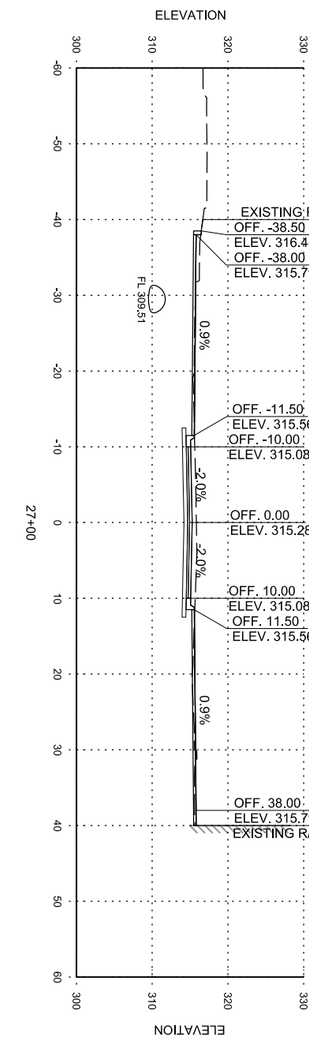
dlttackett 3/9/2018 2:56:52 PM
W:\WORKSPACE\Garver_2012
L:\2016\16017122 - Conway - Markham Street\Drawings\CMSH-C900-CX.dgn

STA. 26+00 TO STA. 28+00



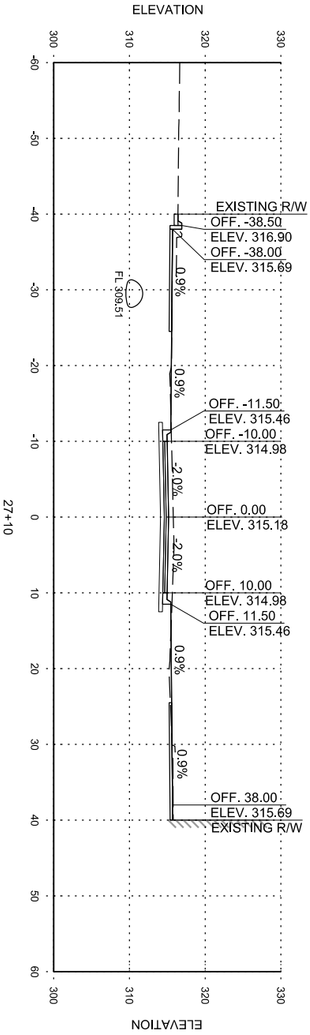


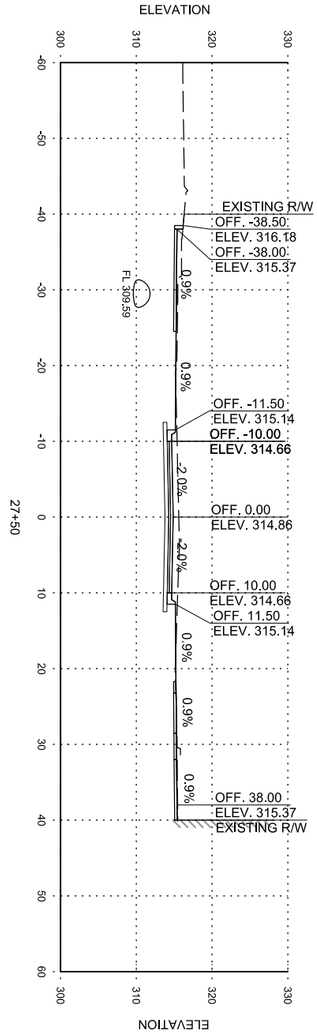


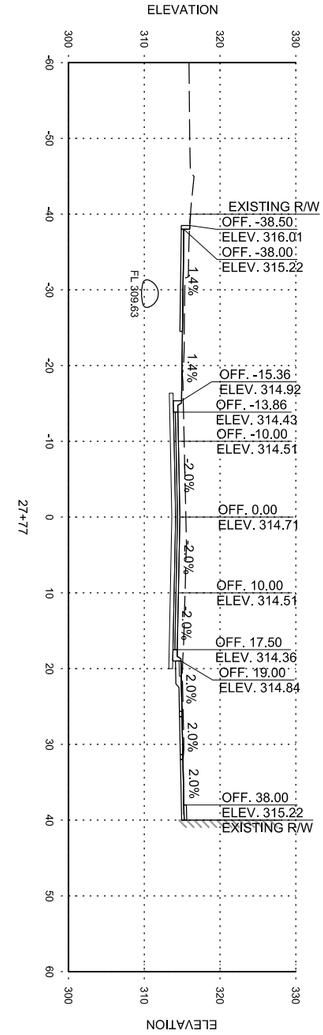


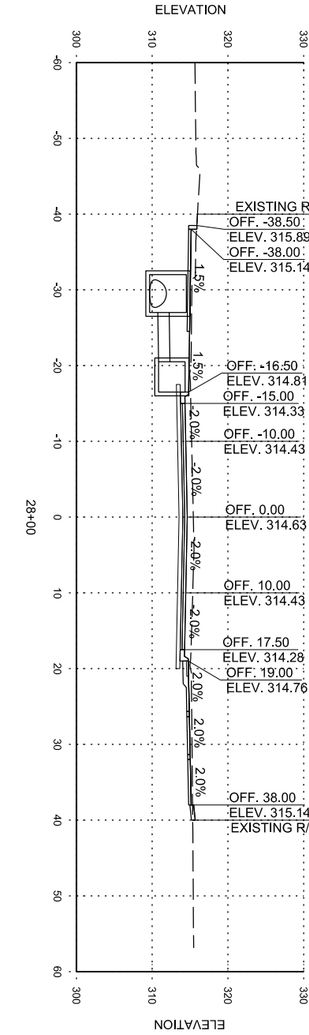
STA. 28+00.00 CONSTRUCT
TYPE ST JUNCTION BOX 29.50' LT.
WITH 44"x27" x 228' R.C. ARCH PIPE TO
JUNCTION BOX AT STA. 25+70.00 LT.
(3'x 5'H = 5'-0" AT STA. 25+70.00 LT.
44"x 27" R.C. ARCH PIPE
(CLASS III) (TYPE 3 BEDDING) = 228 LIN. FT.

STA. 28+00.00 CONSTRUCT
TYPE MO DROP INLET 18.50' LT.
WITH 4'x4' EXTENSION AND
18" x 7' R.C. PIPE TO
JUNCTION BOX AT STA. 28+00.00 LT.
(4' DIA. x H = 4'-0")
18" R.C. PIPE
(CLASS III) (TYPE 3 BEDDING) = 7 LIN. FT.







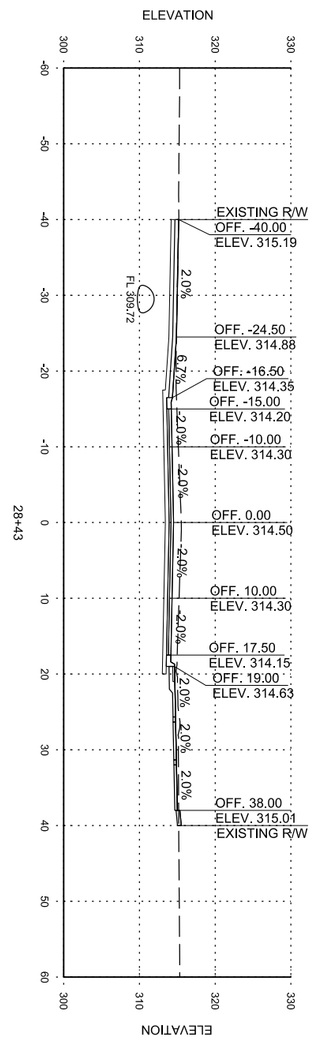


JOB NO.: 16017122	MARKHAM STREET CROSS SECTIONS	METROPLAN LITTLE ROCK, ARKANSAS
DATE: MARCH 2018		
DESIGNED BY: DLT		MARKHAM ST. JUMP START IMPVTS. (CONWAY) (S)
DRAWN BY: DLT		
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY		
DRAWING NUMBER **CX-02**		
SHEET NUMBER **CX2**		

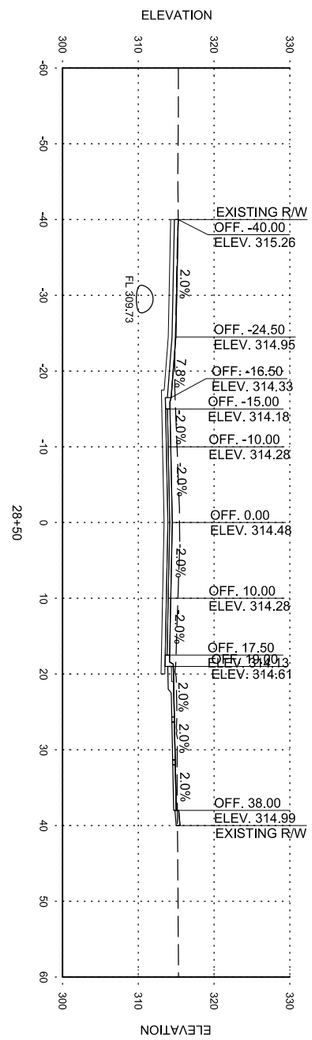
REV.	DATE	DESCRIPTION	BY

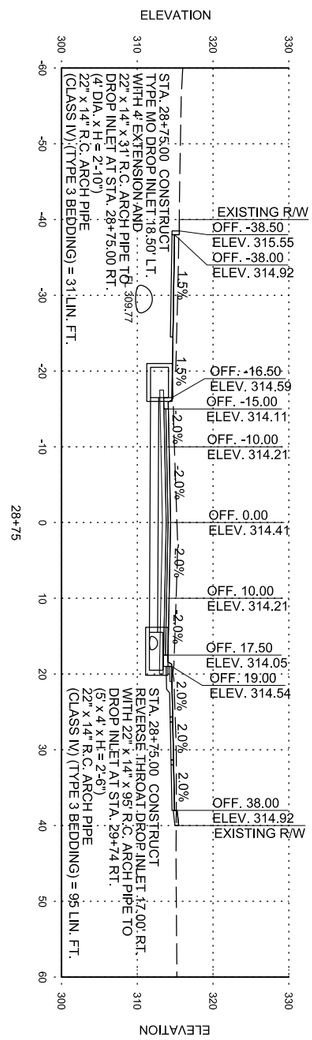
FINAL PLANS
NOT FOR CONSTRUCTION

STA. 28+43 TO STA. 29+72

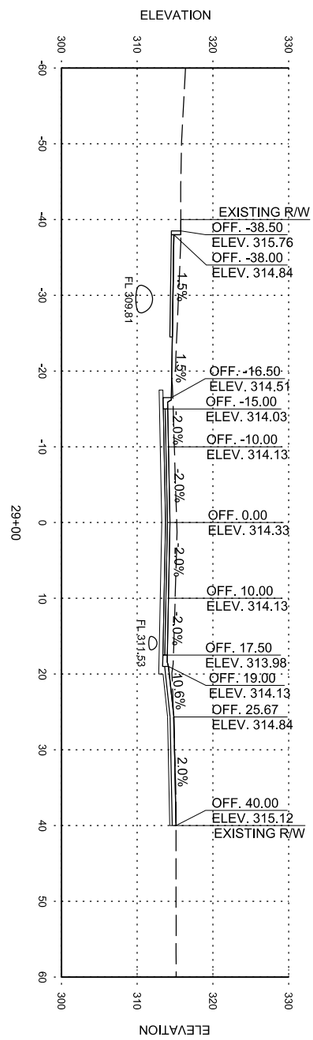


STA. 28+43 CONSTRUCT DRIVEWAY LT.

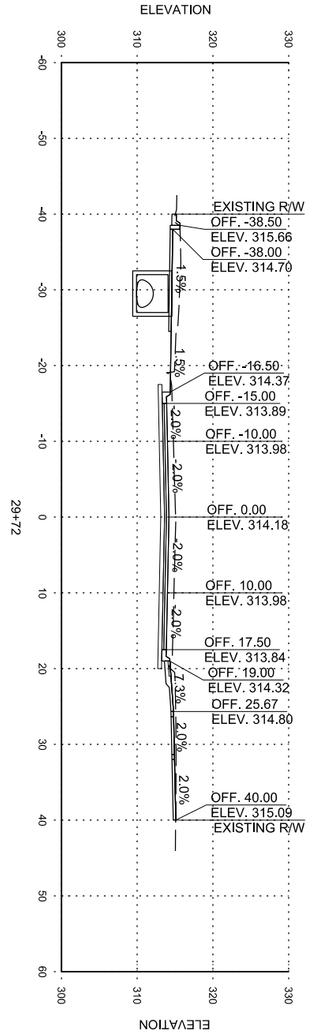


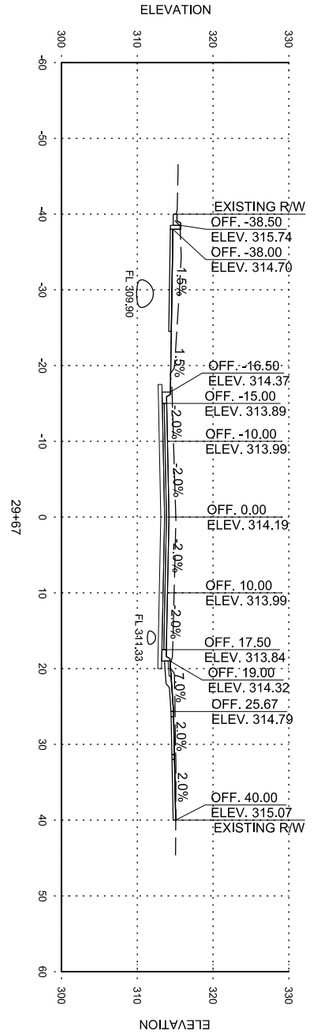


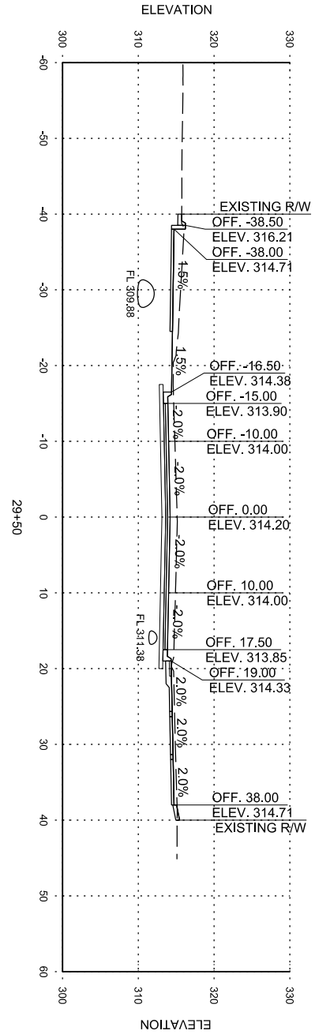
STA. 28+75.00 CONSTRUCT
REVERSE THROAT DROP INLET 17.00' RT.
WITH 22" x 14" x 95' R.C. ARCH PIPE TO
DROP INLET AT STA. 29+74 RT.
(5' x 4' x H = 2'-6")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 95 LIN. FT.

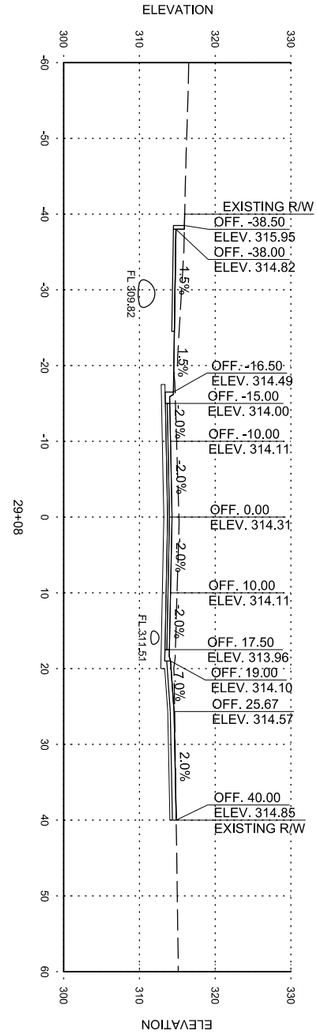


STA. 29+72.50 CONSTRUCT
TYPE ST JUNCTION BOX 29.50' LT.
WITH 44" x 27" x 169' R.C. ARCH PIPE TO
JUNCTION BOX AT STA. 28+00.00 LT.
(4' x 5' x H = 4'-8")
44" x 27" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 169 LIN. FT.





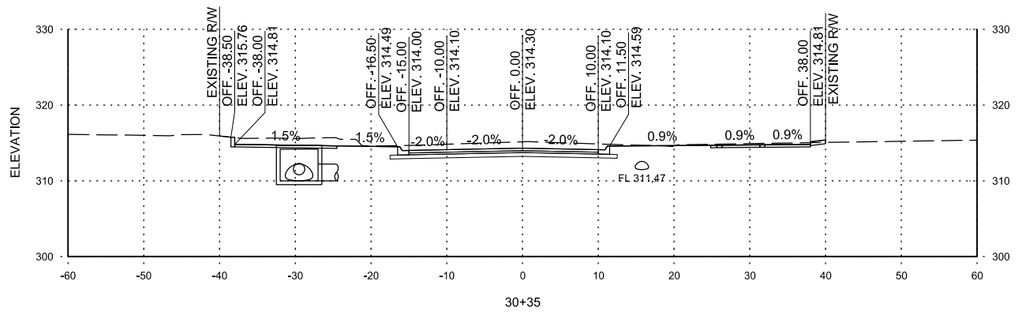


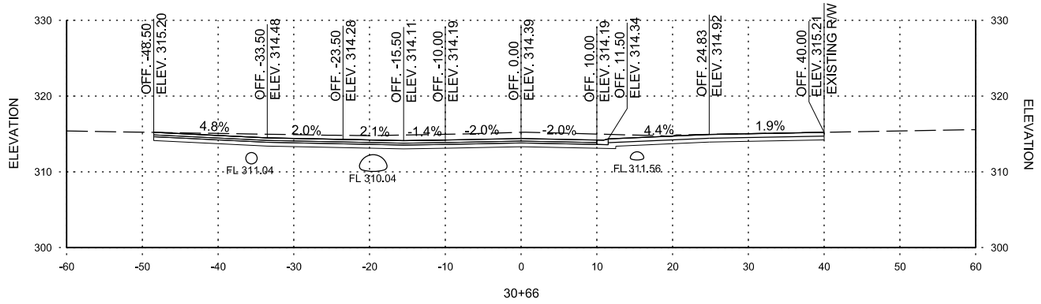


STA. 29+08 CONSTRUCT DRIVEWAY RT.

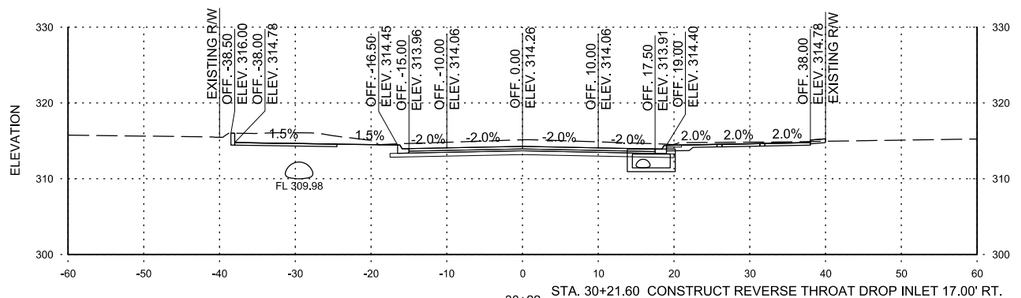
JOB NO.: 16017122	MARKHAM STREET CROSS SECTIONS	METROPLAN LITTLE ROCK, ARKANSAS	REV. / DATE / DESCRIPTION / BY
DATE: MARCH 2018		METROPLAN SMART PLANNING MAKES SMART PLACES.	
DESIGNED BY: DLT		MARKHAM ST. JUMP START IMPVTS. (CONWAY) (S)	
DRAWN BY: DLT			
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.			FINAL PLANS NOT FOR CONSTRUCTION
DRAWING NUMBER CX-03			
SHEET NUMBER CX3			

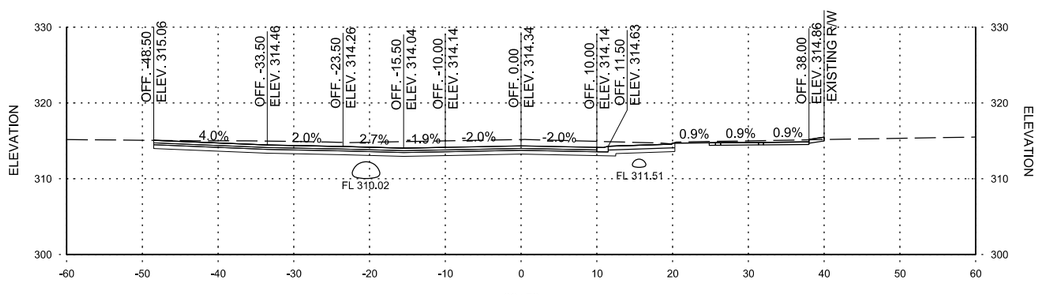
STA. 30+35.15 CONSTRUCT
TYPE ST JUNCTION BOX 29.50' LT.
WITH 44" x 27" x 57' R.C. ARCH PIPE TO
JUNCTION BOX AT STA. 29+72.50 LT.
(7' x 5' X H = 4'-8")
44" x 27" R.C. ARCH PIPE
(CLASS III) (TYPE 3 BEDDING) = 57 LIN. FT.



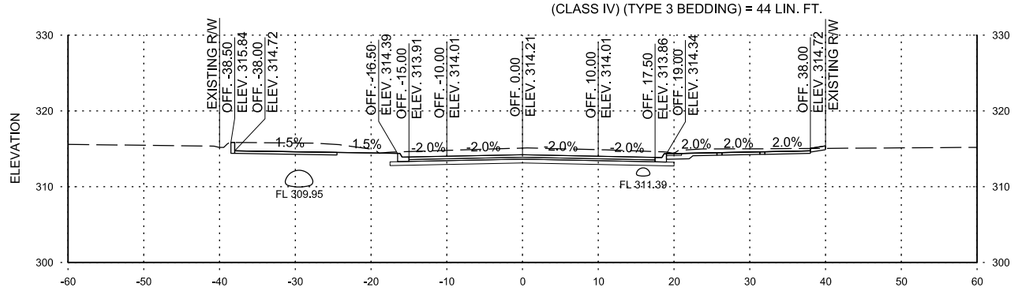


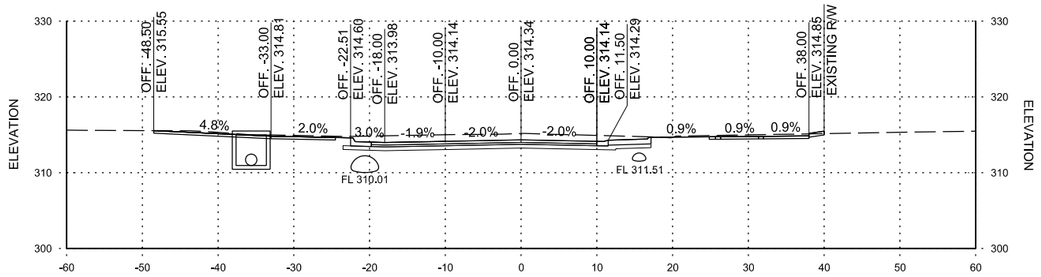
STA. 30+66 CONSTRUCT DRIVEWAY RT.



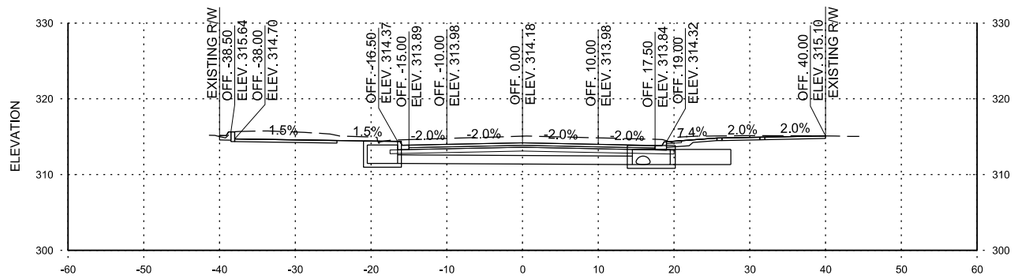


STA. 30+21.60 CONSTRUCT REVERSE THROAT DROP INLET 17.00' RT.
WITH 22" x 14" x 44' R.C. ARCH PIPE TO DROP INLET AT STA. 29+74.00 RT. (5'x 4' x H = 2'-6")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 44 LIN. FT.



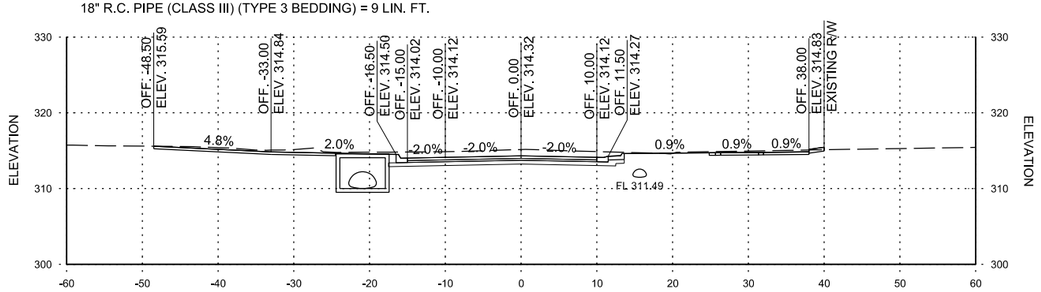


STA. 30+47.33 CONSTRUCT TYPE MO DROP INLET 35.62' LT.
WITH 18" x 9' R.C. PIPE TO JUNCTION BOX AT STA. 30+35.15 LT.
(4' DIA. x H = 4'-7")
18" R.C. PIPE (CLASS III) (TYPE 3 BEDDING) = 9 LIN. FT.



STA. 29+74.00 CONSTRUCT TYPE MO DROP INLET 18.50' LT.
WITH 2-4' EXTENSIONS AND 22" x 14" x 31' R.C. ARCH PIPE TO
DROP INLET AT STA. 29+74.00 RT. (4' DIA. x H = 2'-11")
22" x 14" R.C. ARCH PIPE (CLASS IV) (TYPE 3 BEDDING) = 31 LIN. FT.

STA. 29+74.00 CONSTRUCT REVERSE THROAT DROP INLET 17.00' RT.
WITH 2-4' EXTENSIONS AND 24" x 8' R.C. PIPE TO EXISTING 24" R.C. PIPE
(5' x 4' x H = 2'-6")
24" R.C. PIPE
(CLASS III) (TYPE 3 BEDDING) = 8 LIN. FT.



STA. 30+42.39 CONSTRUCT TYPE MO DROP INLET 20.93' LT.
WITH 44" x 27" x 9' R.C. ARCH PIPE TO JUNCTION BOX AT STA. 30+35.15 LT.
(6' DIA. x H = 4'-7")
44" x 27" R.C. ARCH PIPE
(CLASS III) (TYPE 3 BEDDING) = 9 LIN. FT.

STA. 29+74 TO STA. 30+66

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

MARKHAM STREET
CROSS
SECTIONS

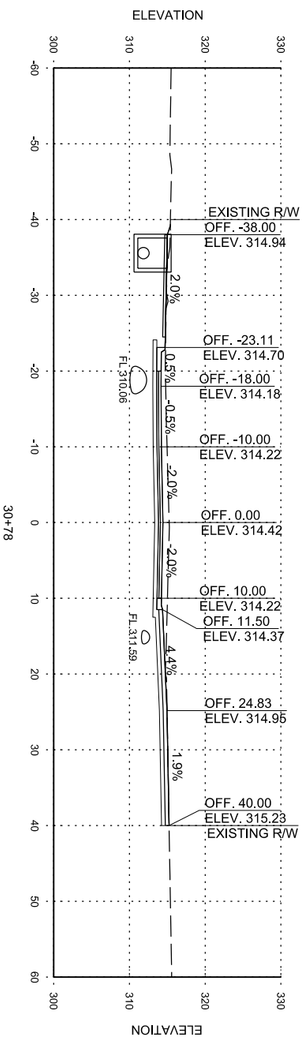
JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

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

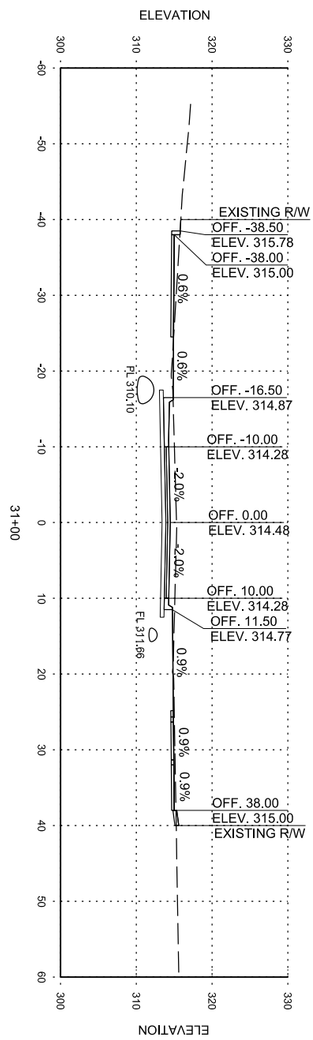
DRAWING NUMBER
CX-04

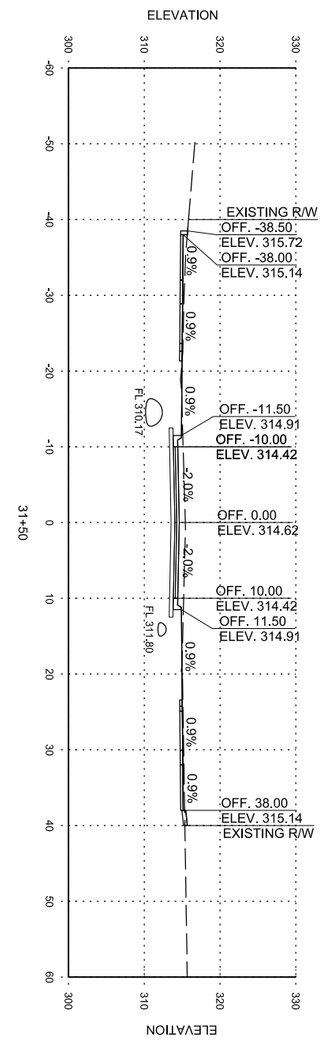
SHEET NUMBER **CX4**

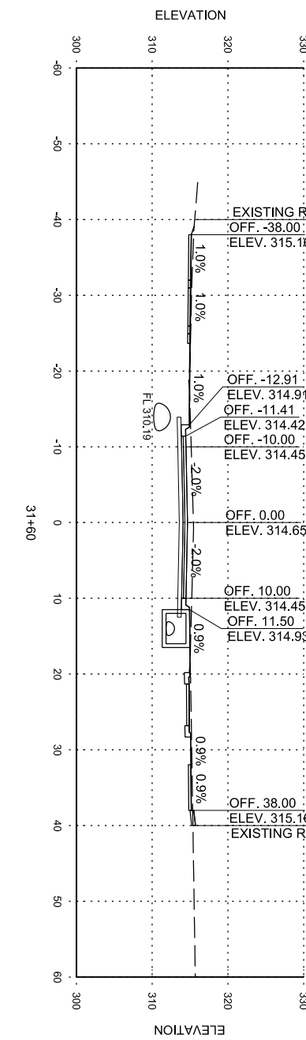
STA. 30+78 TO STA. 31+94



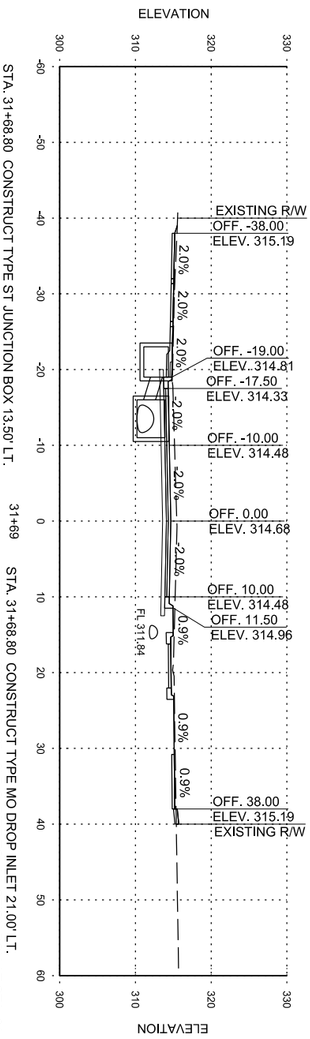
STA. 31+00.00 CONSTRUCT TYPE ST JUNCTION BOX 14.00' RT. WITH 22" x 14" x 134' R.C. ARCH PIPE TO DROP INLET AT STA. 30+21.60 RT. (4' x 4' x H = 3'-2") 22" x 14" R.C. ARCH PIPE (CLASS IV) (TYPE 3 BEDDING) = 134 LIN. FT.



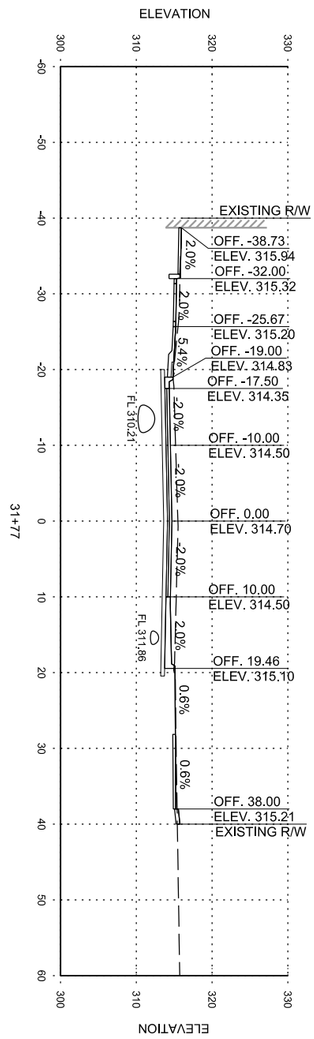


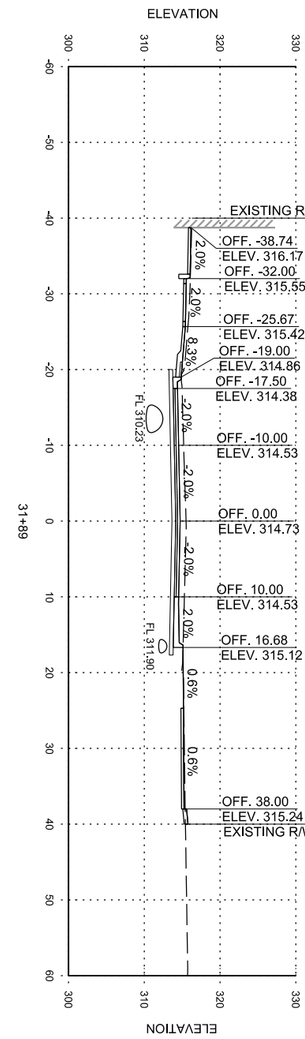


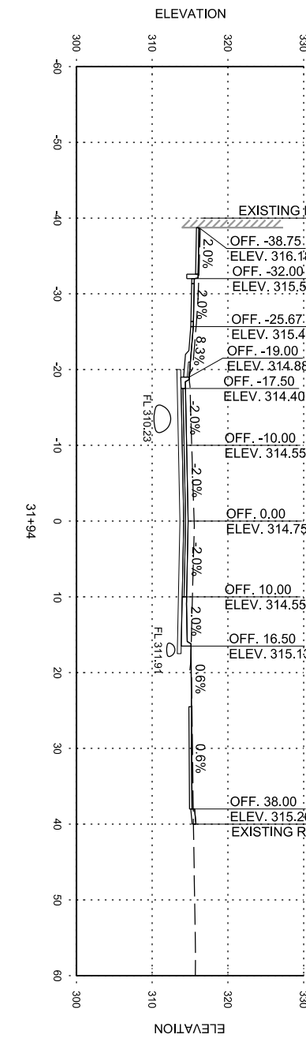
STA. 31+68.80 CONSTRUCT TYPE ST JUNCTION BOX 13.50' LT. WITH 44" x 27" x 123' R.C. ARCH PIPE TO DROP INLET AT STA.30+42.39 LT. (3' x 5' x H = 4'-3") 44" x 27" R.C. ARCH PIPE (CLASS IV) (TYPE 3 BEDDING) = 123 LIN. FT.



STA. 31+68.80 CONSTRUCT TYPE MO DROP INLET 21.00' LT. WITH 4' EXTENSION AND 18" x 3' R.C. PIPE TO JUNCTION BOX AT STA. 31+68.80 LT. (4' DIA. x H = 3'-9") 18" R.C. PIPE (CLASS V) (TYPE 3 BEDDING) = 3 LIN. FT.







SHEET NUMBER	CX5	
DRAWING NUMBER	CX-05	
IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY	BAR IS ONE INCH ON ORIGINAL DRAWING 1"	
DRAWN BY: DLT		
DESIGNED BY: DLT		
DATE: MARCH 2018		
JOB NO.: 16017122		
MARKHAM STREET CROSS SECTIONS		

METROPLAN
LITTLE ROCK, ARKANSAS

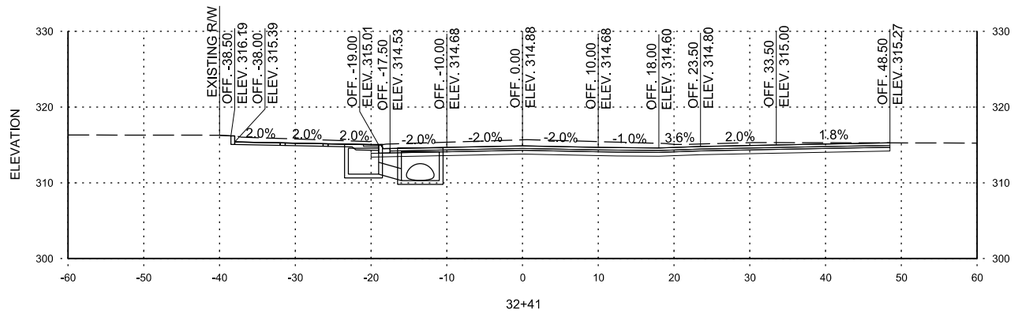
METROPLAN
SMART PLANNING MAKES SMART PLACES.

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

REV.	DATE	DESCRIPTION	BY

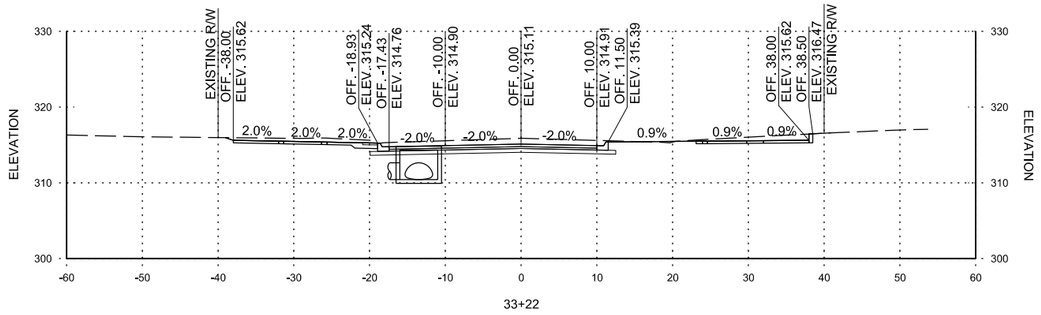
FINAL PLANS
NOT FOR CONSTRUCTION

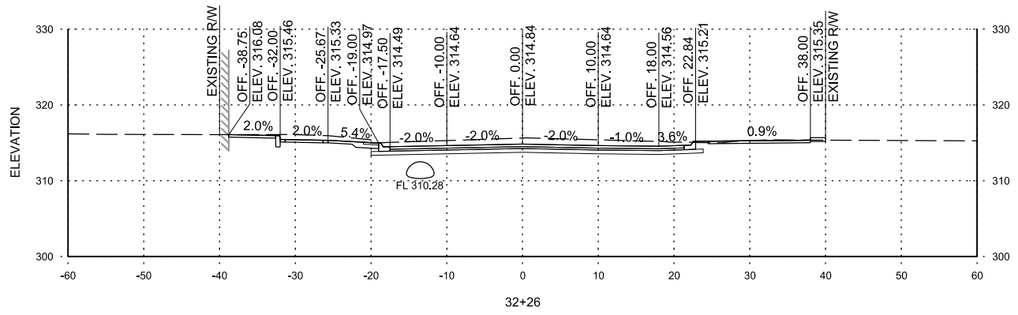
STA. 32+41.12 CONSTRUCT
TYPE ST JUNCTION BOX 13.50' LT.
WITH 44" x 27" x 69' R.C. ARCH PIPE TO
JUNCTION BOX AT STA. 31+68.80 LT.
(3' x 5' x H = 4'-4")
44" x 27" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 69 LIN. FT.

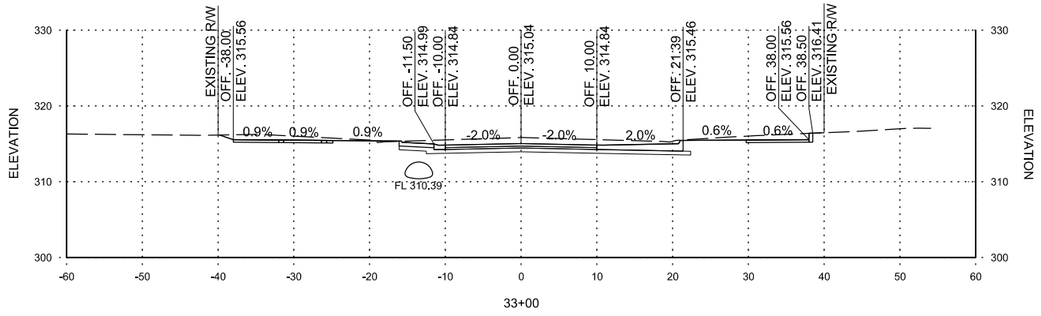


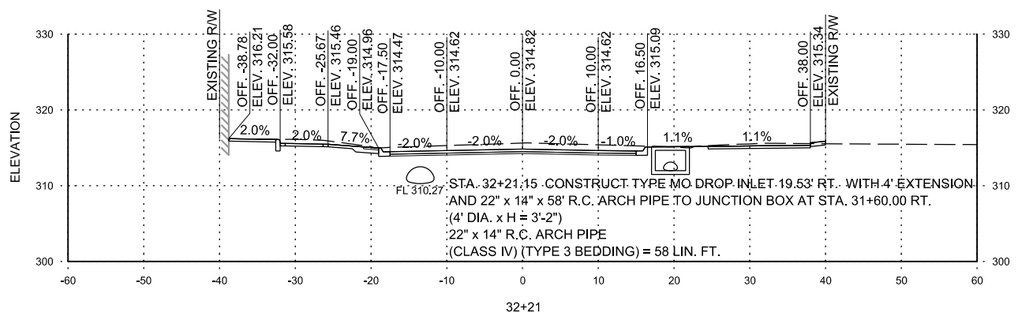
STA. 32+41.12 CONSTRUCT
TYPE MO DROP INLET 21.00' LT.
WITH 4' EXTENSION AND
18" x 3' R.C. PIPE TO
JUNCTION BOX AT STA. 32+41.12
(4' DIA. x H = 3'-11")
18" R.C. PIPE
(CLASS V) (TYPE 3 BEDDING) = 3 LIN. FT.

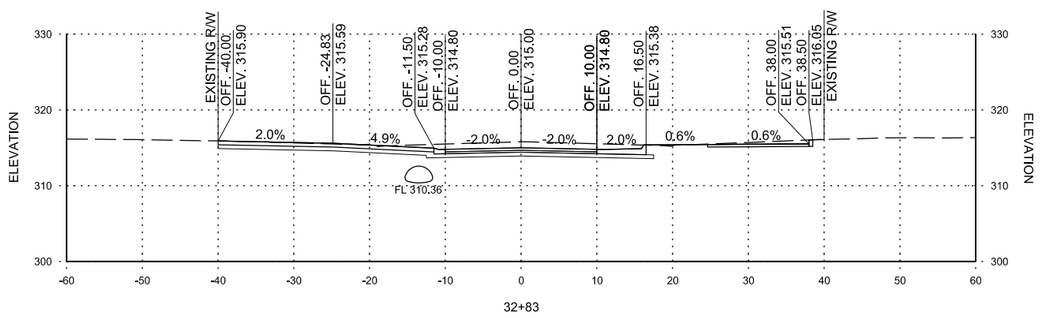
STA. 33+21.68 CONSTRUCT
TYPE ST JUNCTION BOX 13.50' LT.
WITH 44" x 27" x 76' R.C. ARCH PIPE TO
JUNCTION BOX AT STA. 32+41.12 LT.
(6' x 5' x H = 4'-5")
44" x 27" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 76 LIN. FT.



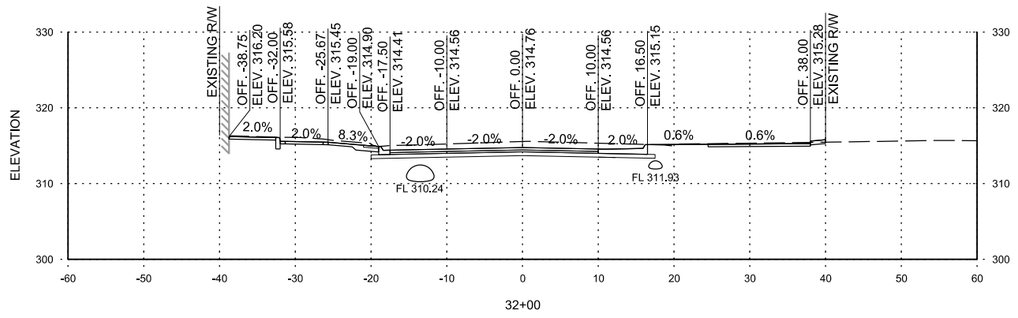


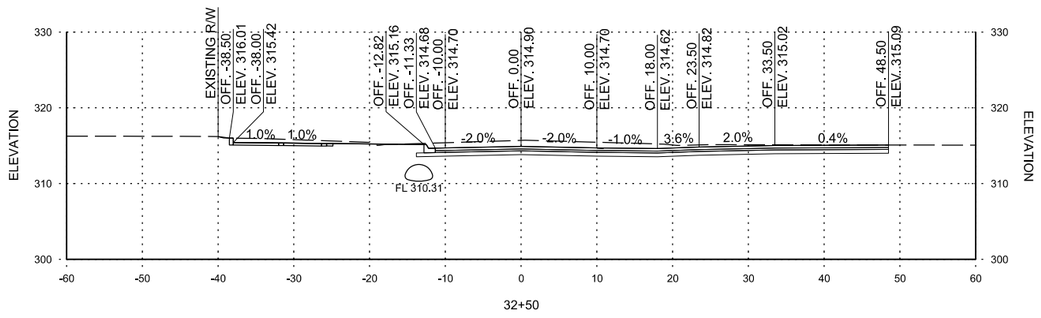






STA. 32+83 CONSTRUCT DRIVEWAY LT.





STA. 32+00 TO STA. 33+22

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

MARKHAM STREET
CROSS
SECTIONS

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

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

DRAWING NUMBER
CX-06

SHEET
NUMBER **CX6**

dlt
3/9/2018 2:56:54 PM
W:\ORKSPACE\Garver_2012
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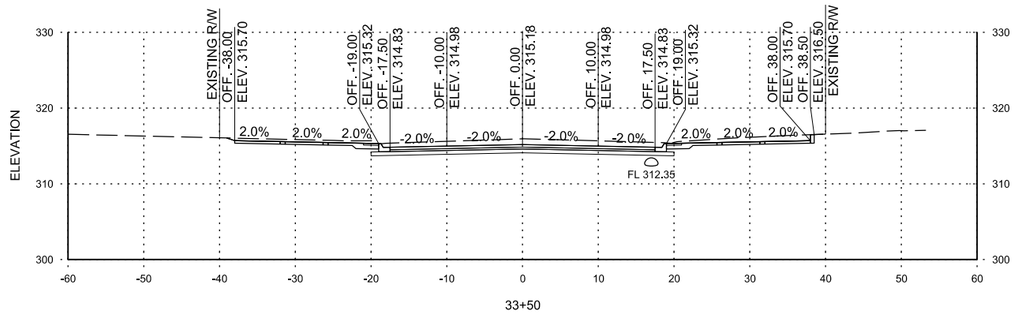
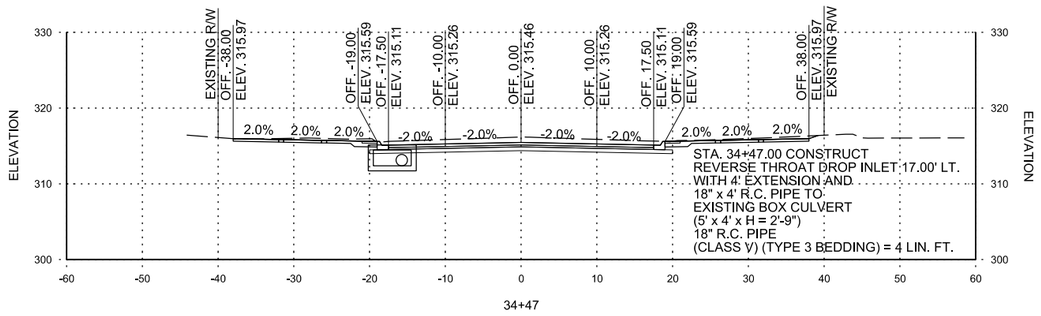
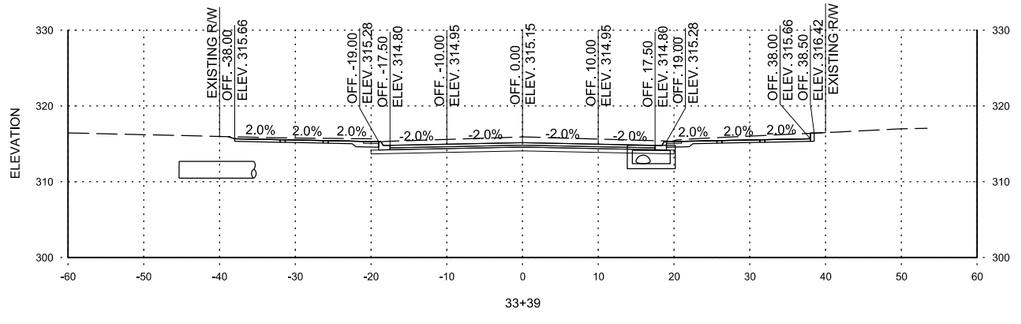


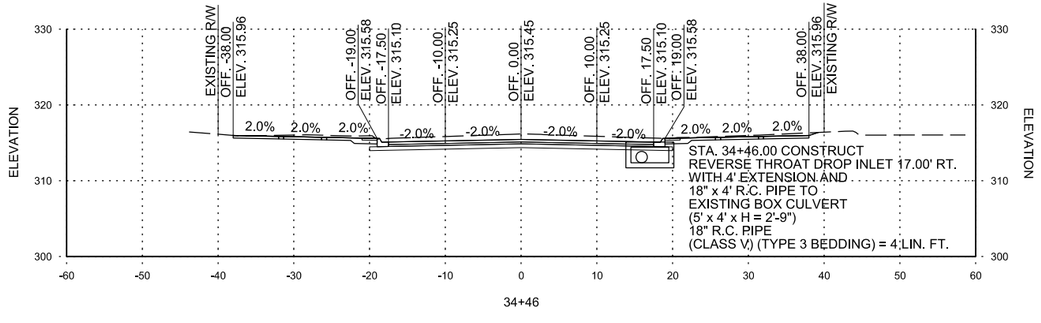
33+50



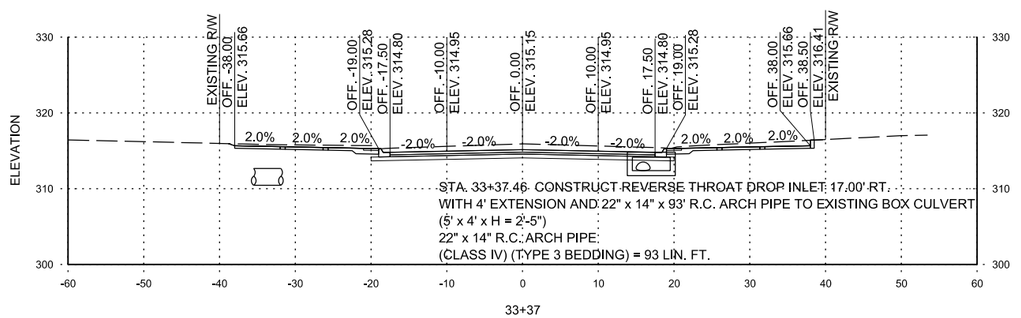
34+47



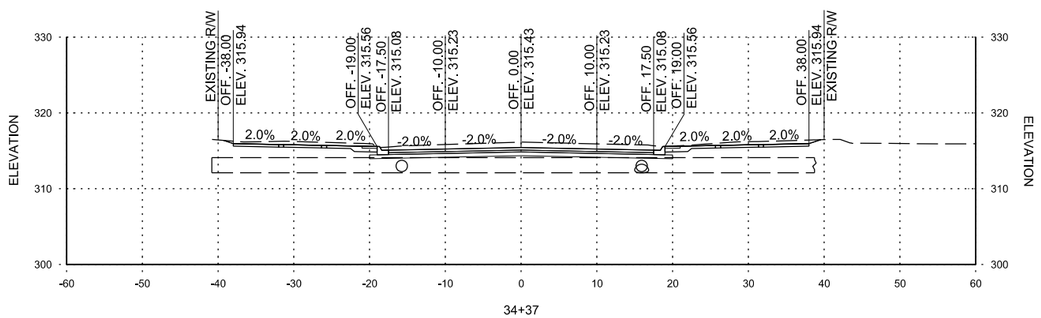
33+39



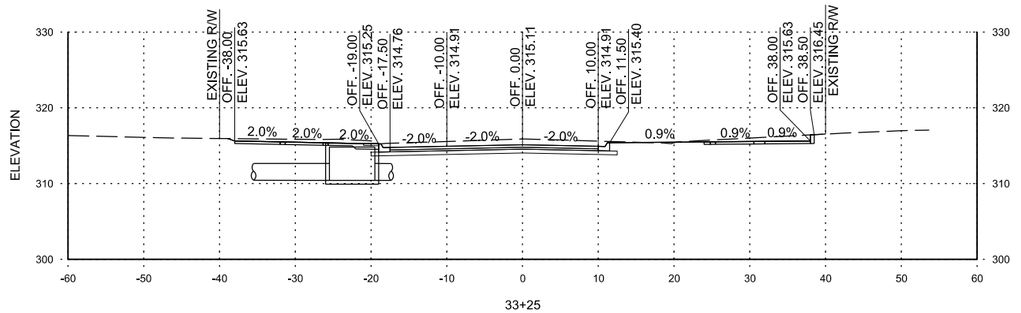
34+46



33+37

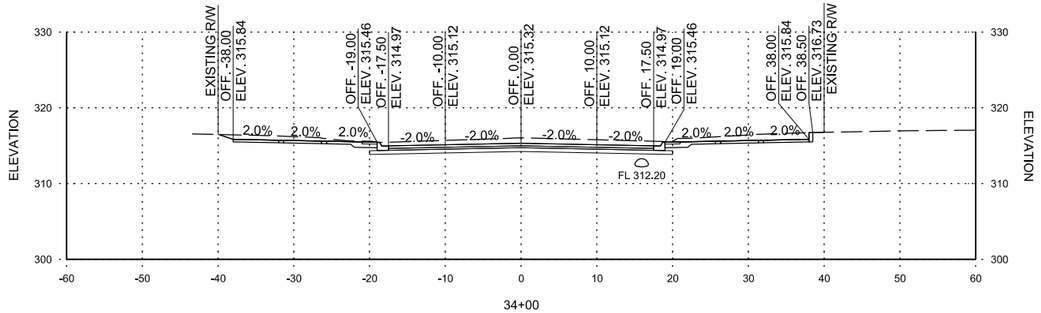


34+37



33+25

STA. 33+25.43 CONSTRUCT TYPE MO DROP INLET 22.50' LT. WITH 2' EXTENSION AND
WITH 44" x 27" x 6' R.C. ARCH PIPE TO JUNCTION BOX AT STA. 33+21.68 LT.
AND 44" x 27" x 24' R.C. ARCH PIPE STUB (6' DIA. x H = 4'-11")
44" x 27" R.C. ARCH PIPE (CLASS III) (TYPE 3 BEDDING) = 30 LIN. FT.



34+00

STA. 33+25 TO STA. 34+47

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

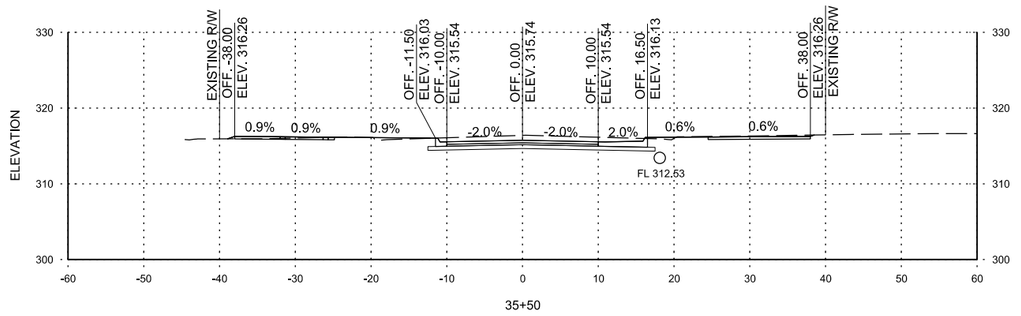
MARKHAM STREET
CROSS
SECTIONS

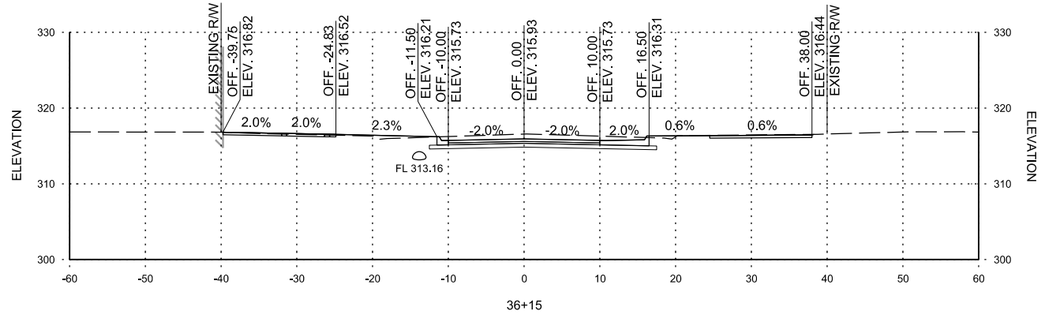
JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

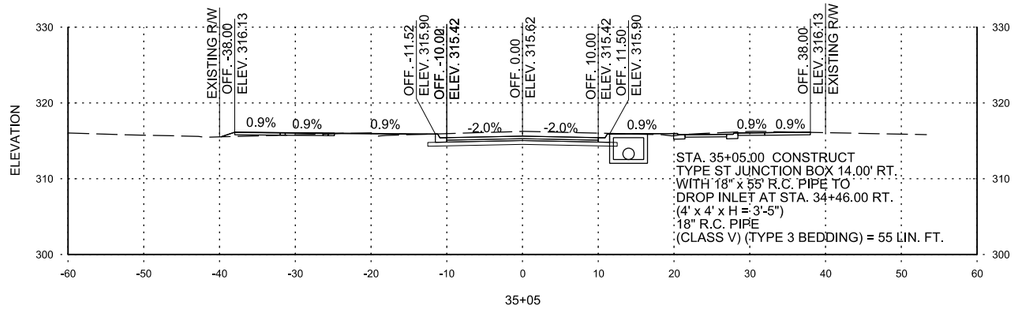
BAR IS ONE INCH ON
ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY.

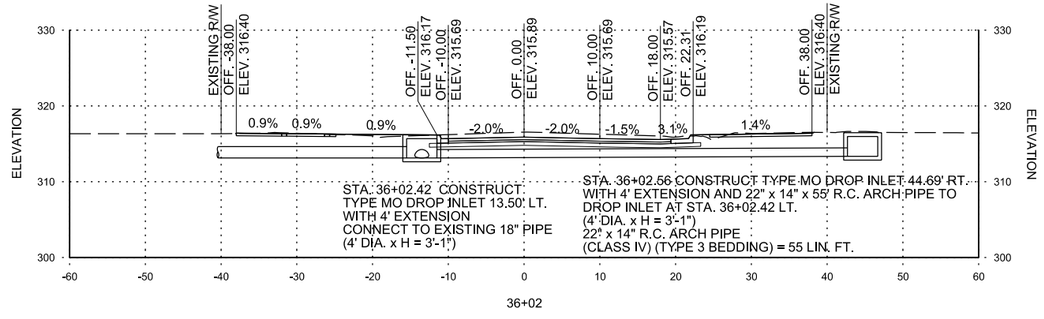
DRAWING NUMBER
CX-07

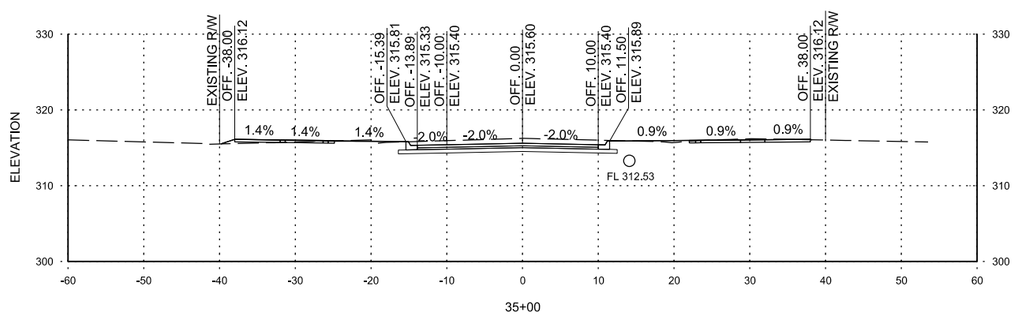
SHEET
NUMBER **CX7**

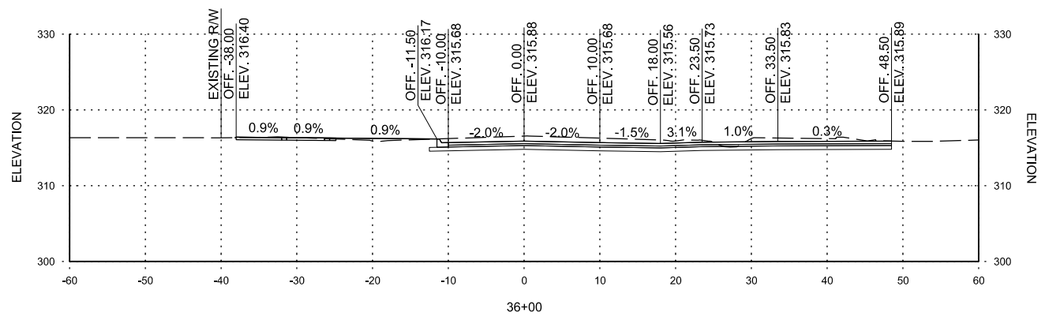


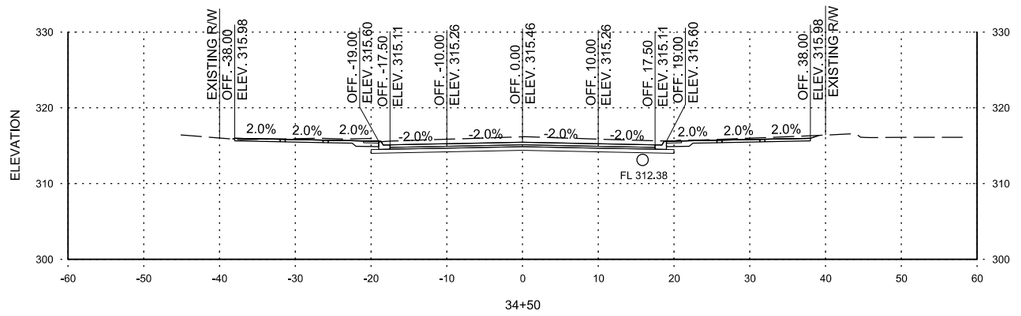


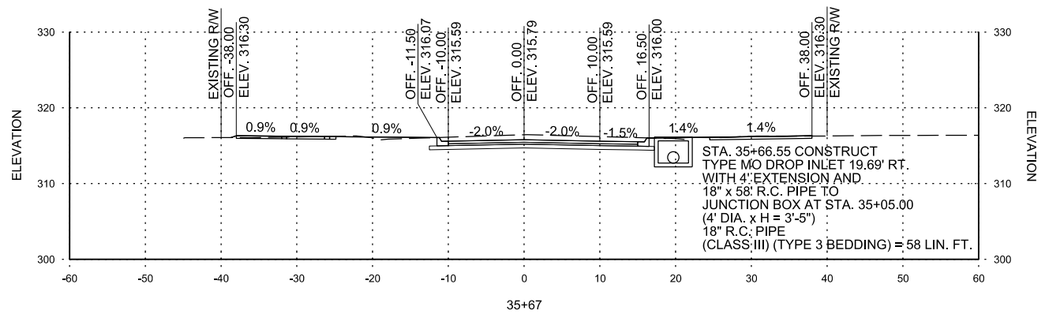












STA. 34+50 TO STA. 36+15

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

MARKHAM STREET
CROSS
SECTIONS

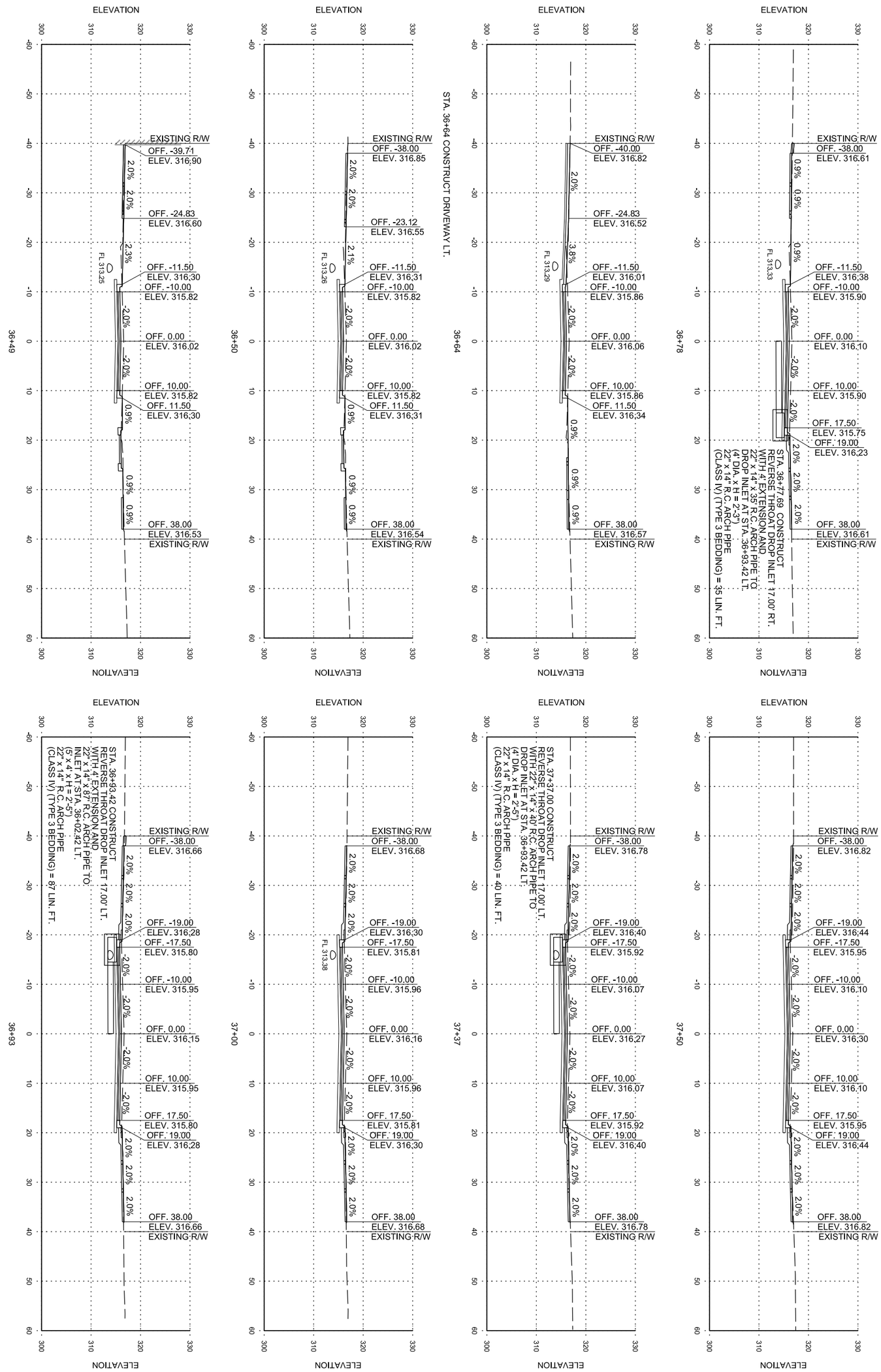
JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

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

DRAWING NUMBER
CX-08

SHEET
NUMBER **CX8**

STA. 36+49 TO STA. 37+50

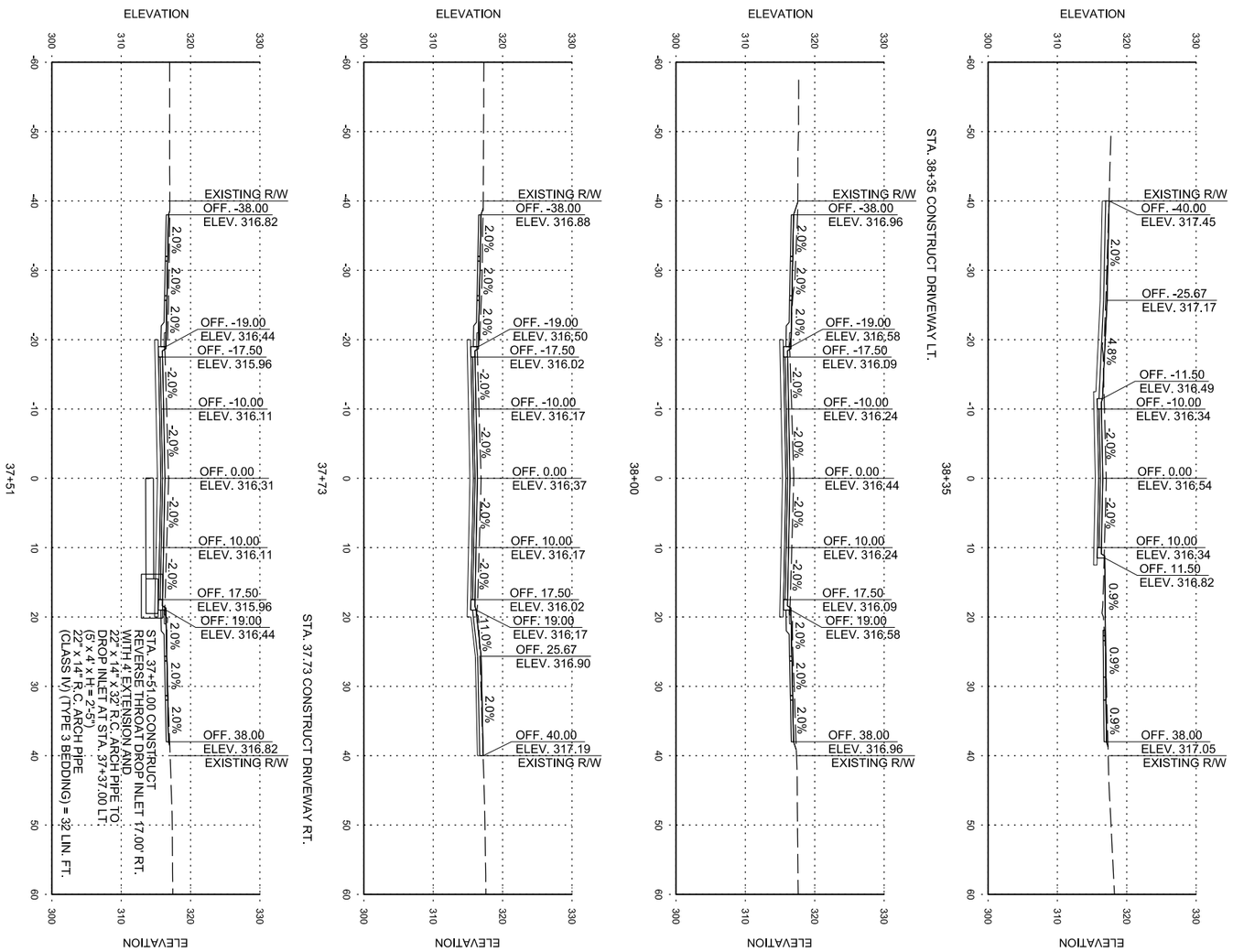


JOB NO.: 16017122	MARKHAM STREET CROSS SECTIONS	METROPLAN LITTLE ROCK, ARKANSAS
DATE: MARCH 2018		METROPLAN SMART PLANNING MAKES SMART PLACES.
DESIGNED BY: DLT		MARKHAM ST. JUMP START IMPVTS. (CONWAY) (S)
DRAWN BY: DLT		
BAR IS ONE INCH ON ORIGINAL DRAWING 1" IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY		
DRAWING NUMBER CX-09		
SHEET NUMBER CX9		

REV.	DATE	DESCRIPTION	BY

FINAL PLANS
NOT FOR CONSTRUCTION

STA. 37+51 TO STA. 39+00



JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

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

DRAWING NUMBER **CX-10**
SHEET NUMBER **CX10**

MARKHAM STREET CROSS SECTIONS

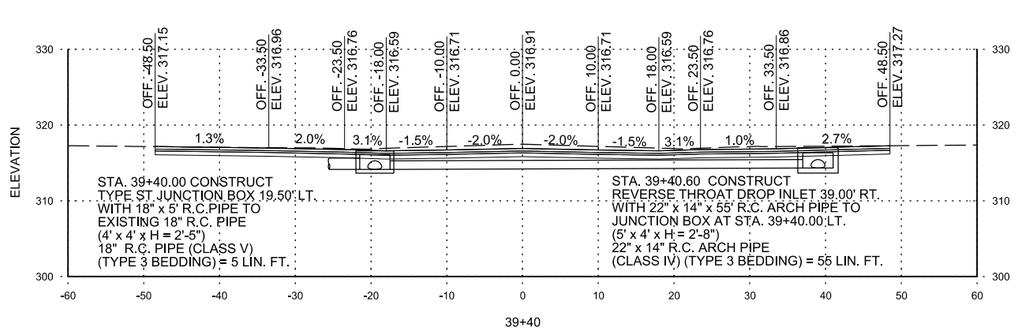
METROPLAN
LITTLE ROCK, ARKANSAS

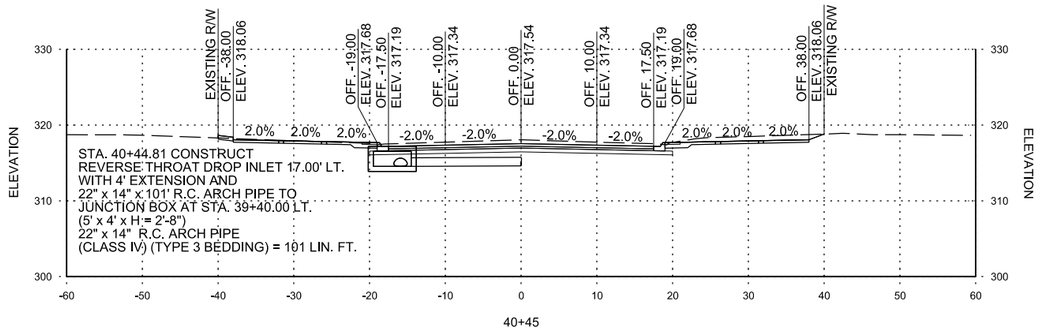
METROPLAN
SMART PLANNING MAKES SMART PLACES.

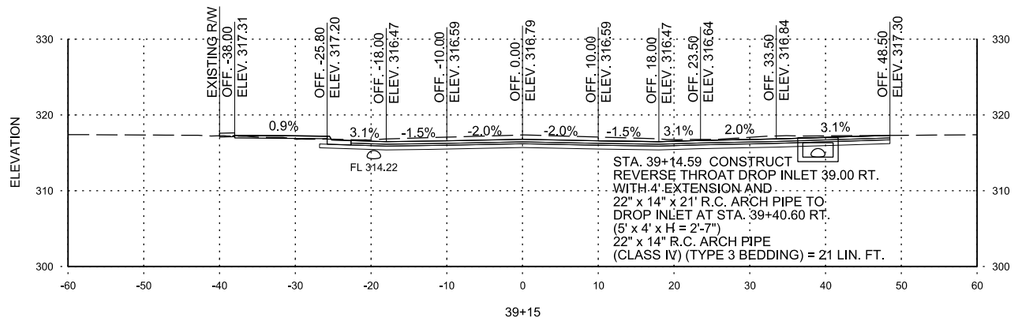
MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

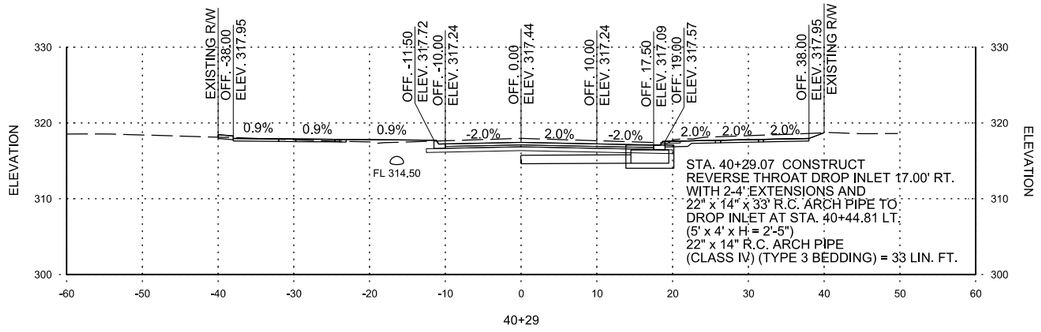
REV.	DATE	DESCRIPTION	BY

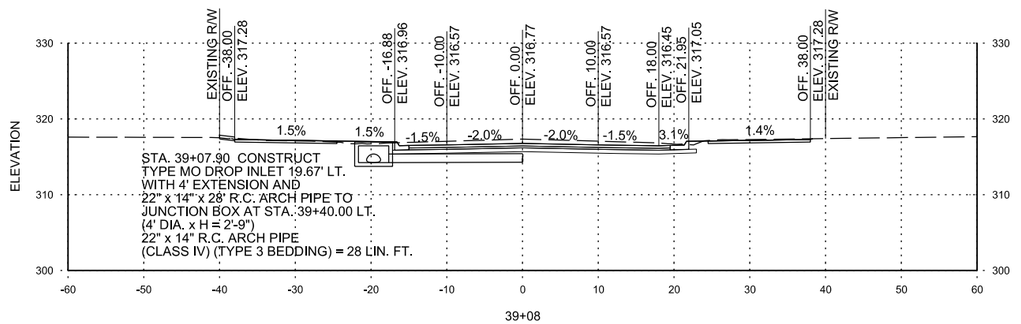
FINAL PLANS
NOT FOR CONSTRUCTION

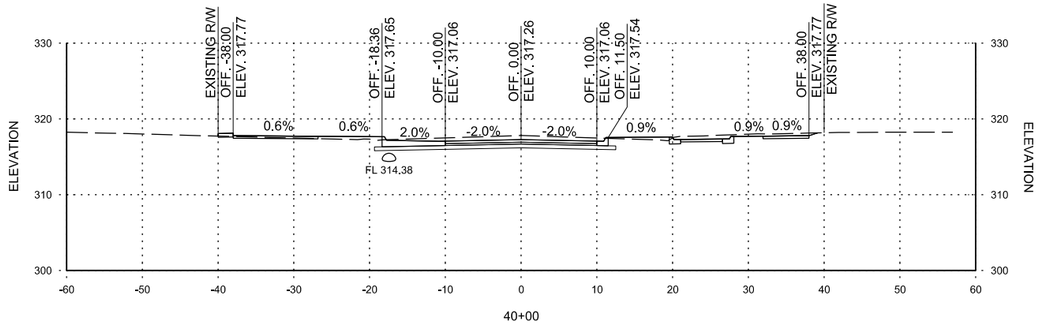


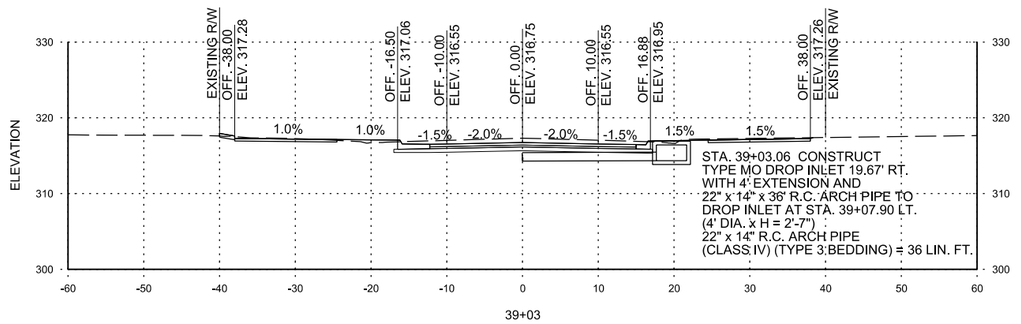


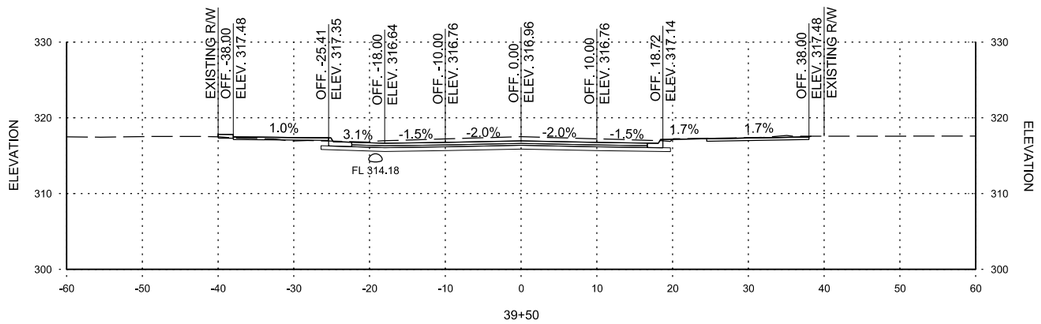












STA. 39+03 TO STA. 40+45

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

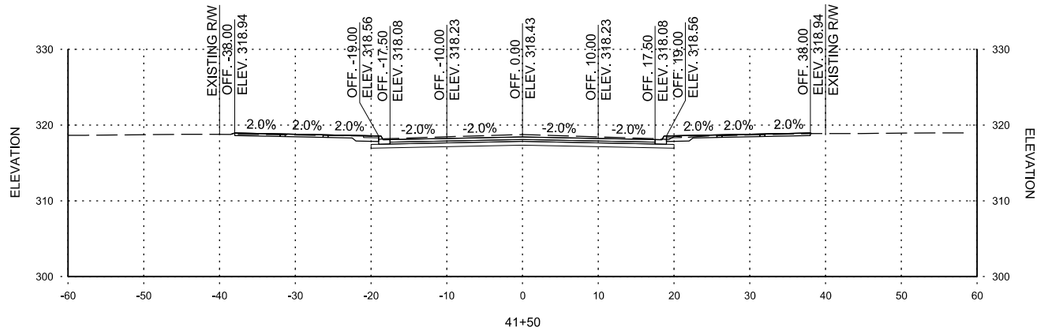
MARKHAM STREET
CROSS
SECTIONS

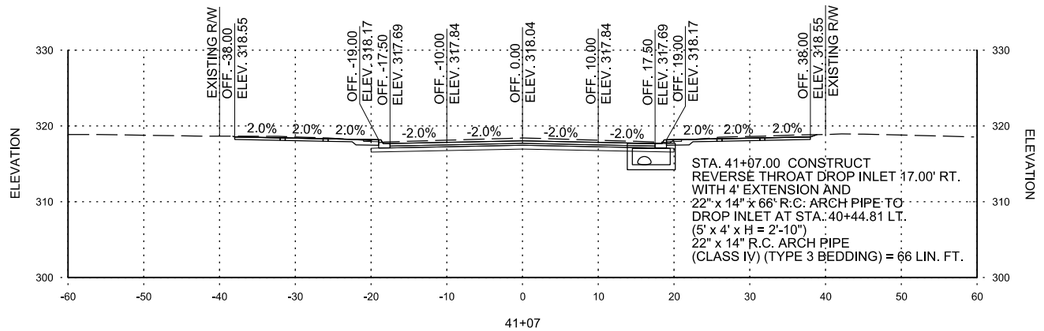
JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

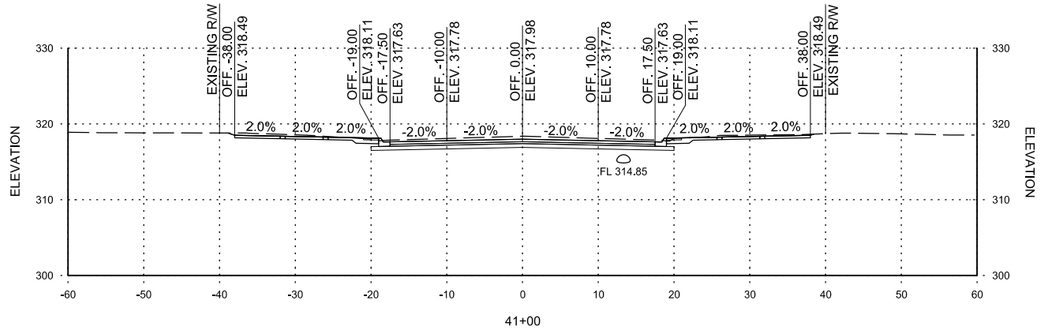
BAR IS ONE INCH ON
ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY.

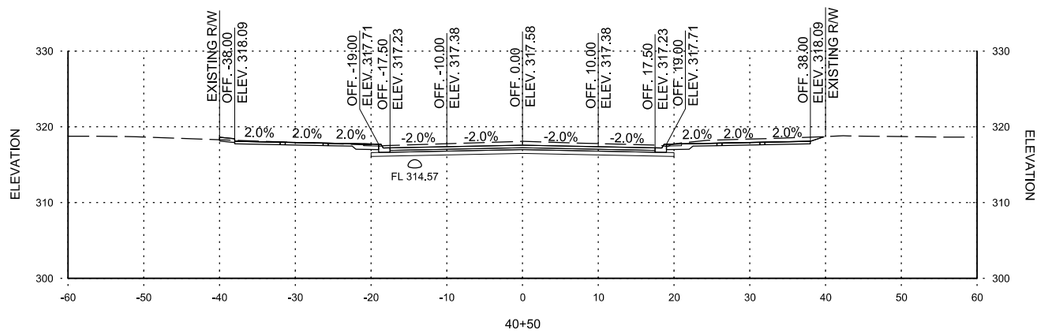
DRAWING NUMBER
CX-11

SHEET
NUMBER **CX11**





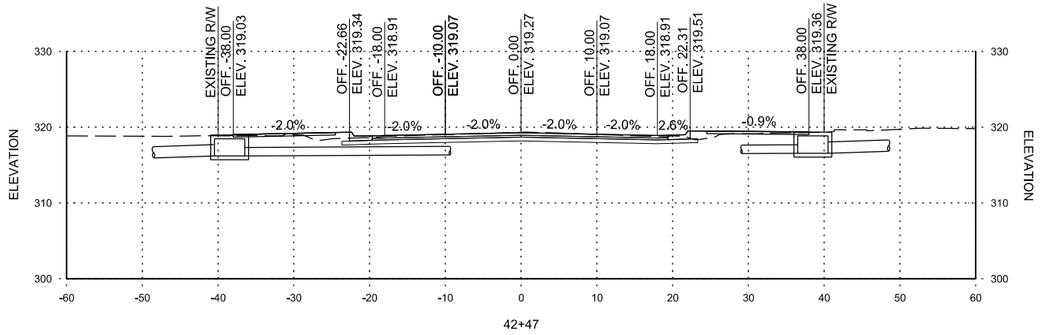


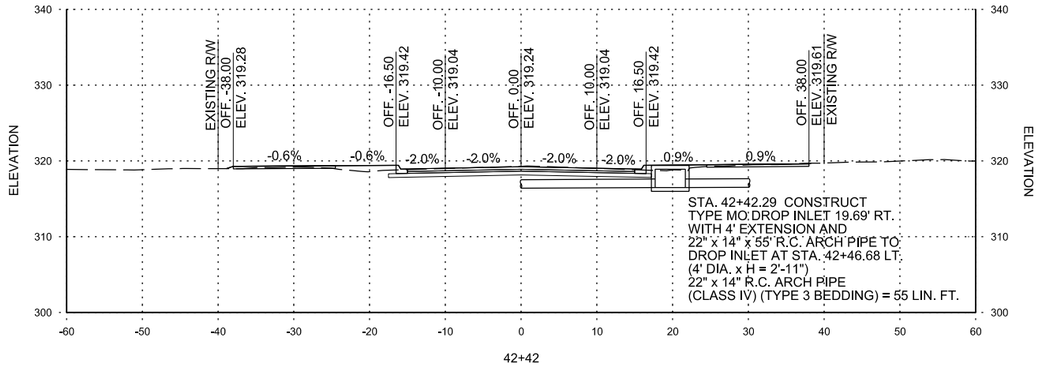


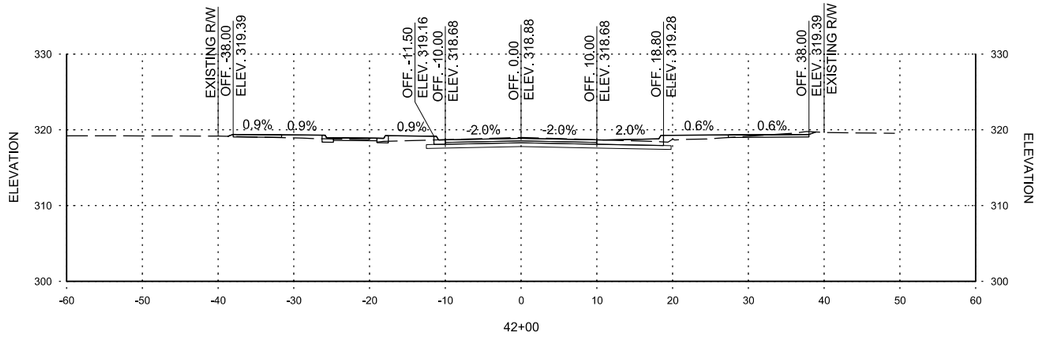
STA. 40+50 TO STA. 42+47

STA. 42+46.68 CONSTRUCT
TYPE MO DROP INLET 38.48' LT.
WITH 4' EXTENSION AND
18" x 8' R.C. PIPE TO
EXISTING 18" R.C. PIPE
(4' DIA. x H = 2'-9")
18" R.C. PIPE (CLASS III)
(TYPE 3 BEDDING) = 8 LIN. FT.

STA. 42+46.97 CONSTRUCT
TYPE MO DROP INLET 38.52' RT.
WITH 4' EXTENSION AND
22" x 14" x 16' R.C. ARCH PIPE TO
DROP INLET AT STA. 42+42.29 RT. AND
18" x 8' R.C. PIPE TO EXISTING 18" R.C. PIPE
(4' DIA. x H = 2'-10")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 16 LIN. FT.
18" X 8' R.C. PIPE
(CLASS III) (TYPE 3 BEDDING) = 8 LIN. FT.







FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

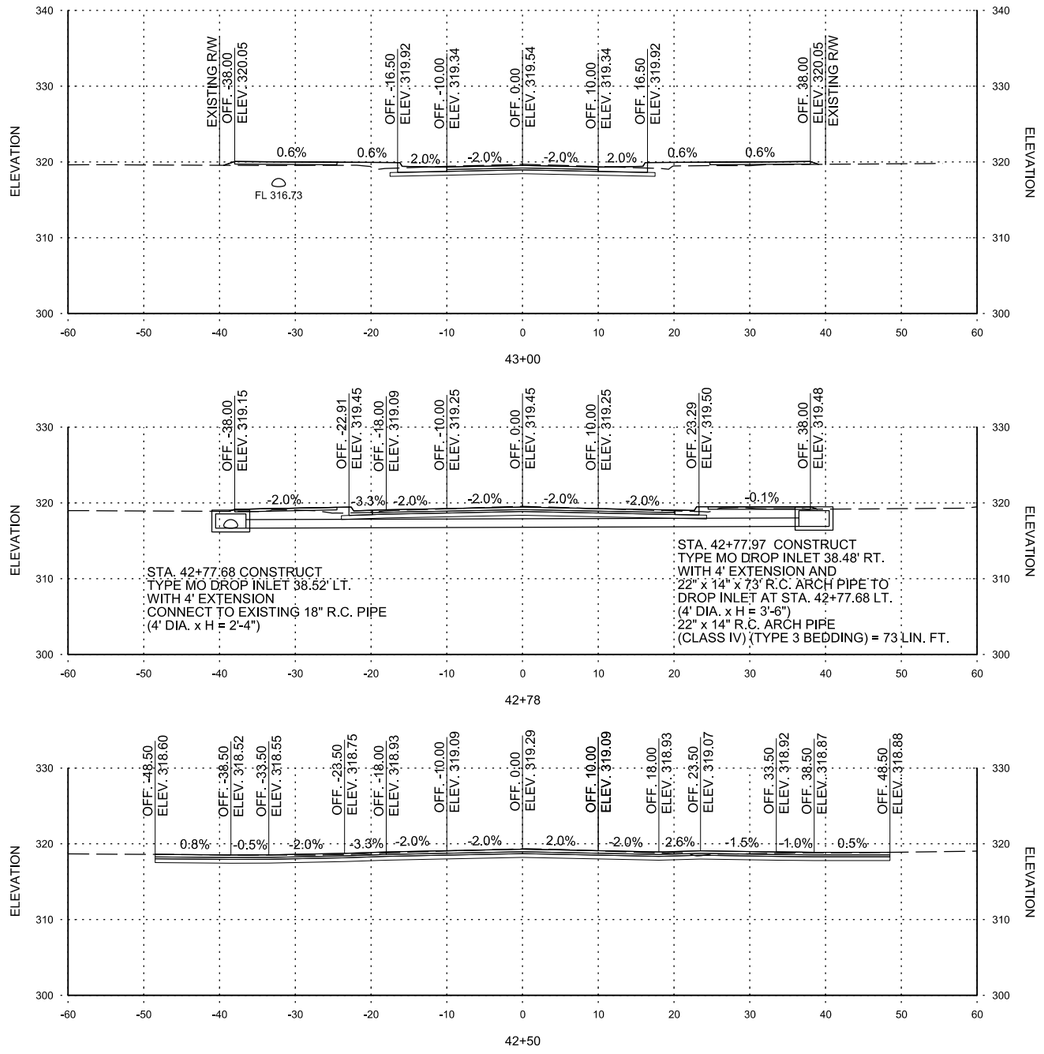
MARKHAM STREET
CROSS
SECTIONS

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

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

DRAWING NUMBER
CX-12

SHEET
NUMBER **CX12**



STA. 42+50 TO STA. 43+68

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

MARKHAM STREET
CROSS
SECTIONS

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

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

DRAWING NUMBER
CX-13

SHEET
NUMBER **CX13**

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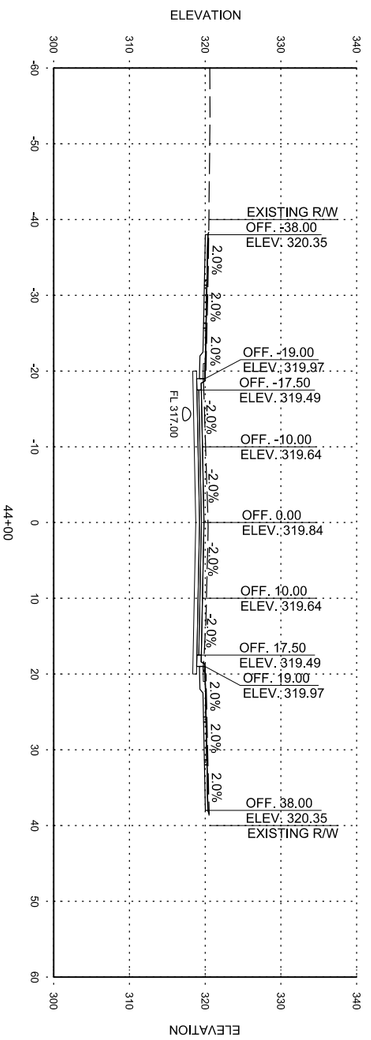
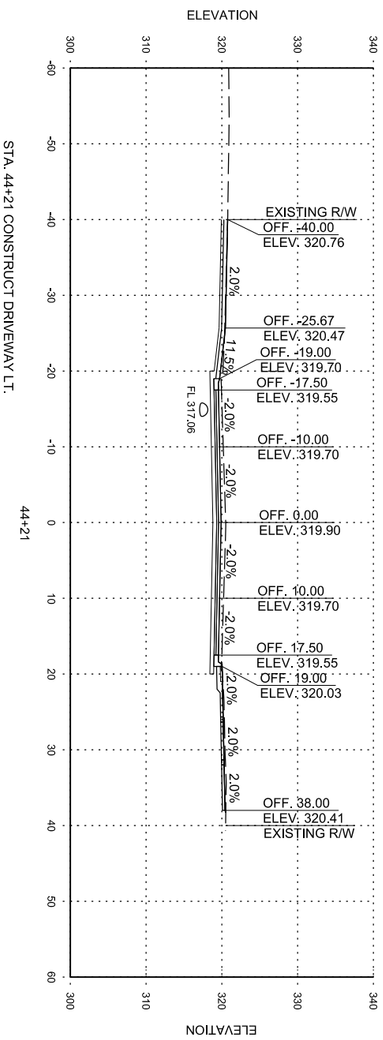
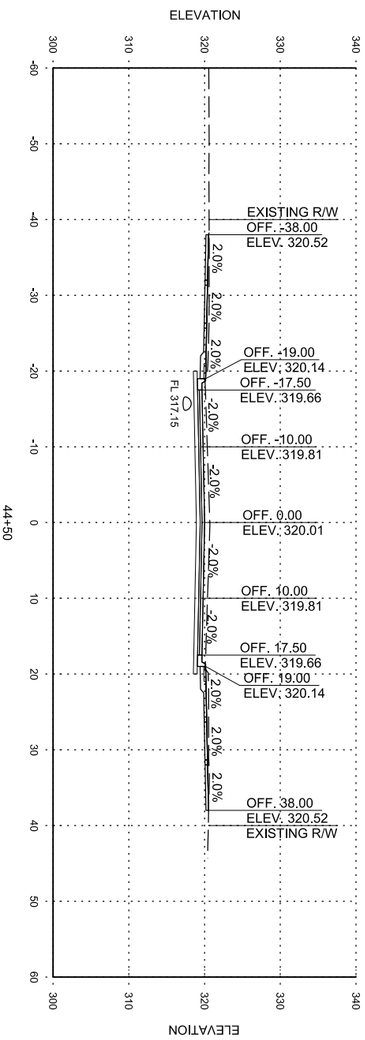
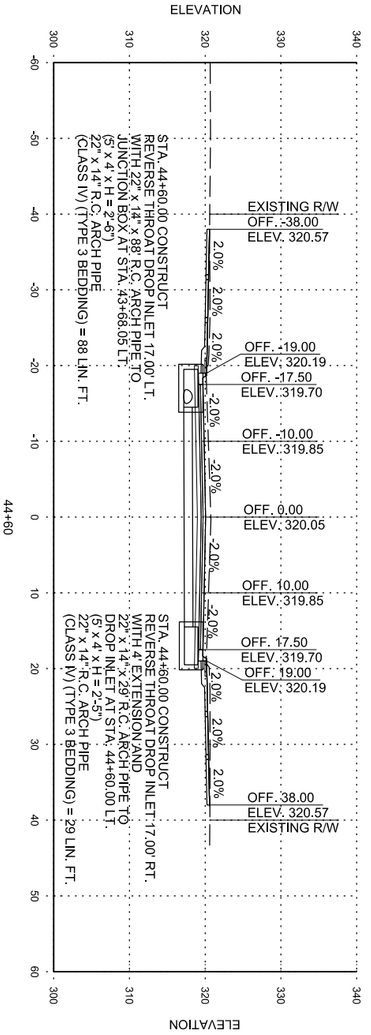
L:\2016\16017122 - Conway - Markham Street\Drawings\CMSH-C900-CX.dgn

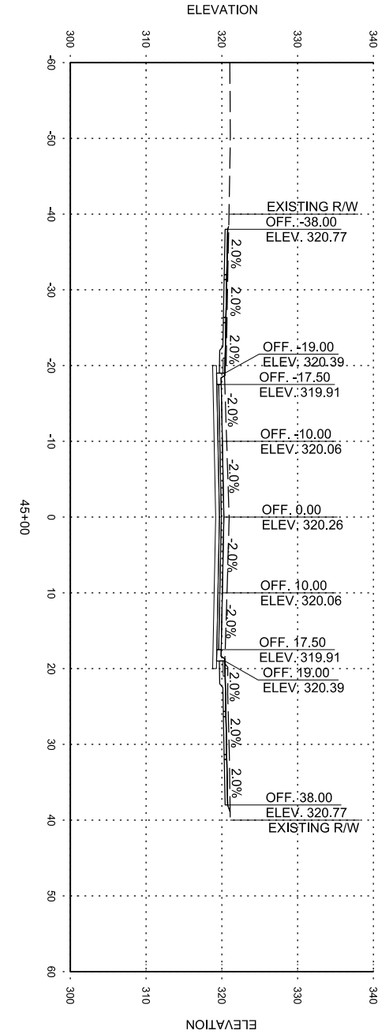
STA. 44+00 TO STA. 45+50

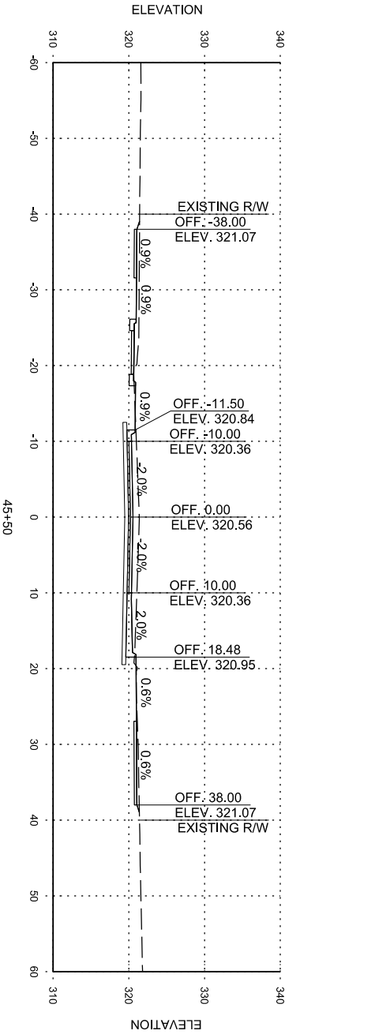












SHEET NUMBER CX14	DRAWING NUMBER CX-14	BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

MARKHAM STREET CROSS SECTIONS

METROPLAN
LITTLE ROCK, ARKANSAS

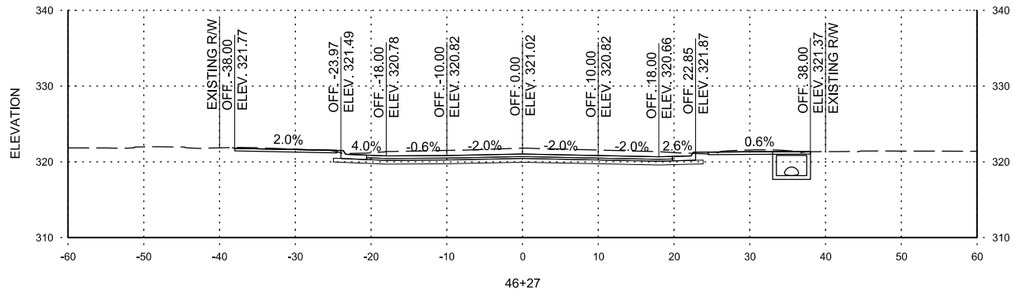
METROPLAN
SMART PLANNING MAKES SMART PLACES.

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

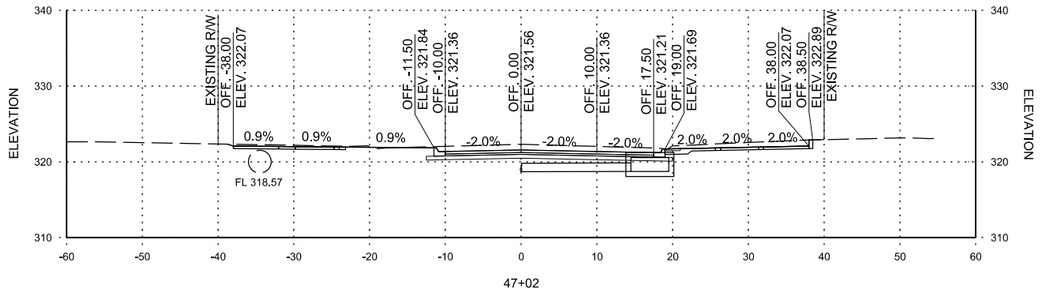
REV.	DATE	DESCRIPTION	BY

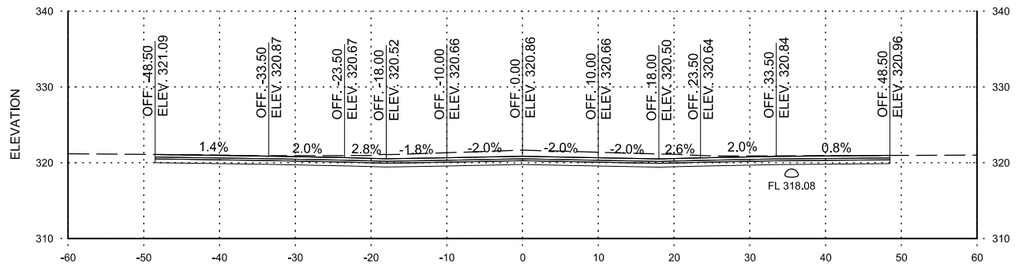
FINAL PLANS
NOT FOR CONSTRUCTION

STA. 46+26.93 CONSTRUCT
TYPE MO DROP INLET 35.52' RT.
WITH 4' EXTENSION AND
22" x 14" x 27' R.C. ARCH PIPE TO
DROP INLET AT STA. 45+95.93 RT.
(4' DIA. x H = 3'-2")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 27 LIN. FT.



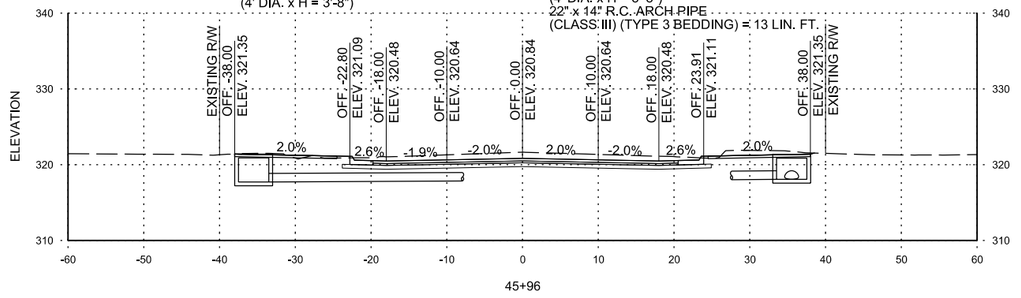
STA. 47+02.43 CONSTRUCT
REVERSE THROAT DROP INLET 17.00' RT.
WITH 4' EXTENSION AND
22" x 14" x 33' R.C. ARCH PIPE TO
DROP INLET AT STA. 47+17.92 LT.
(5' x 4' x H = 2'-6")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 33 LIN. FT.

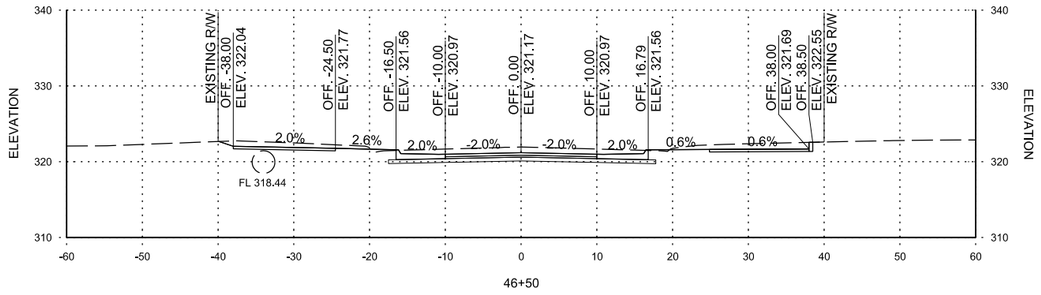


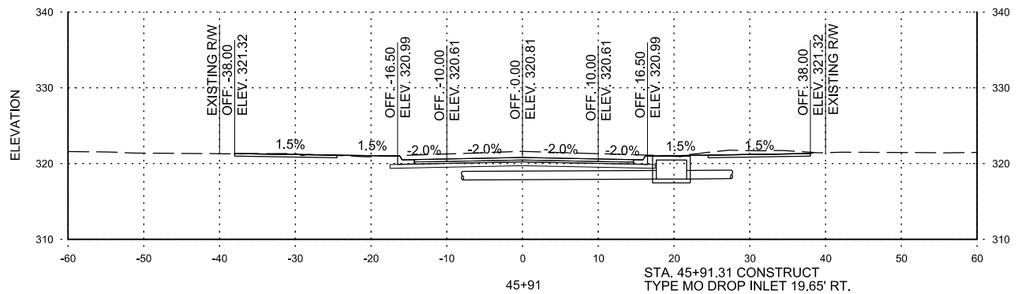


STA. 45+95.93 CONSTRUCT
TYPE MO DROP INLET 35.53' RT.
WITH 22" x 14" x 13' R.C. ARCH PIPE TO
DROP INLET AT STA. 45+91.31 RT.
(4' DIA. x H = 3'-3")
22"x 14" R.C. ARCH PIPE
(CLASS III) (TYPE 3 BEDDING) = 13 LIN. FT.

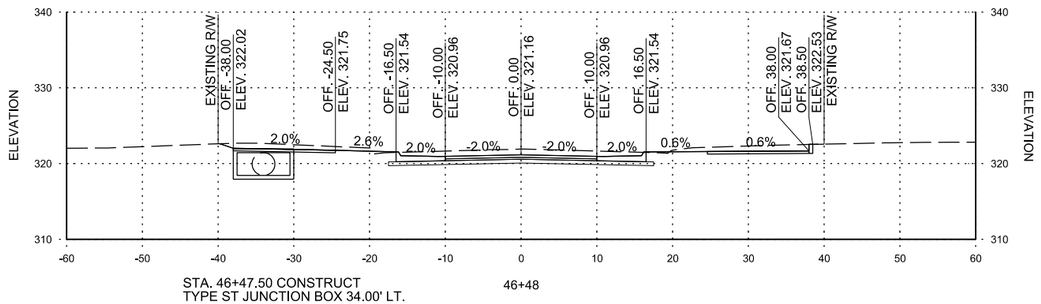
STA. 45+96.46 CONSTRUCT
TYPE MO DROP INLET 35.50' LT.
WITH 4' EXTENSION AND
CONNECT TO EXISTING 24" R.C. PIPE
(4' DIA. x H = 3'-8")







STA. 45+91.31 CONSTRUCT
TYPE MO DROP INLET 19.65' RT.
WITH 4' EXTENSION AND
22" x 14" x 52' R.C. ARCH PIPE TO
DROP INLET AT STA. 45+96.46 LT.
(4' DIA. x H = 3'-0")
22" x 14" R.C. ARCH PIPE
(CLASS IV) (TYPE 3 BEDDING) = 52 LIN. FT.



STA. 46+47.50 CONSTRUCT
TYPE ST JUNCTION BOX 34.00' LT.
CONNECT TO EXISTING 36" R.C. PIPE
AND EXISTING BOX CULVERT
(5' x 7' x H = 3'-2")

STA. 45+91 TO STA. 47+02

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

METROPLAN
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METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

MARKHAM STREET
CROSS
SECTIONS

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

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DRAWING NUMBER
CX-15

SHEET
NUMBER **CX15**

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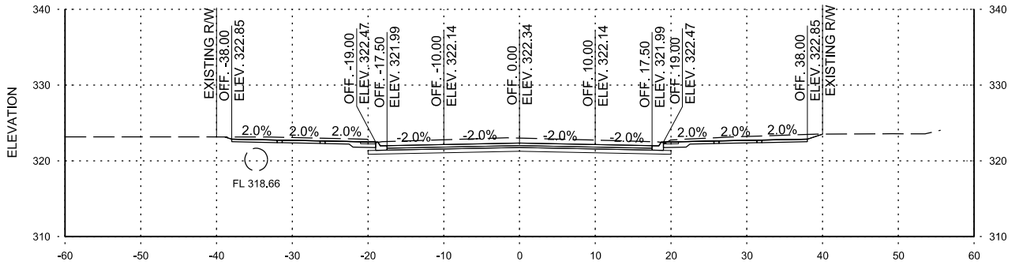
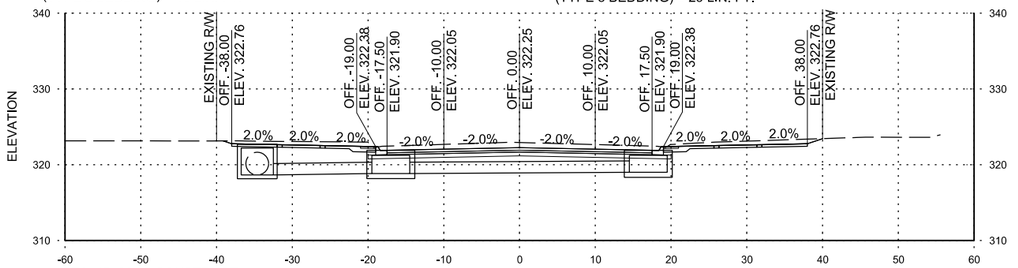


STA. 47+89.00 CONSTRUCT REVERSE THROAT DROP INLET 17.00' LT.
WITH 18" x 13' R.C. PIPE TO JUNCTION BOX AT STA. 47+89.25 LT.
(5' x 4' x H = 3'-1")
18" R.C. PIPE (CLASS III)
(TYPE 3 BEDDING) = 13 LIN. FT.

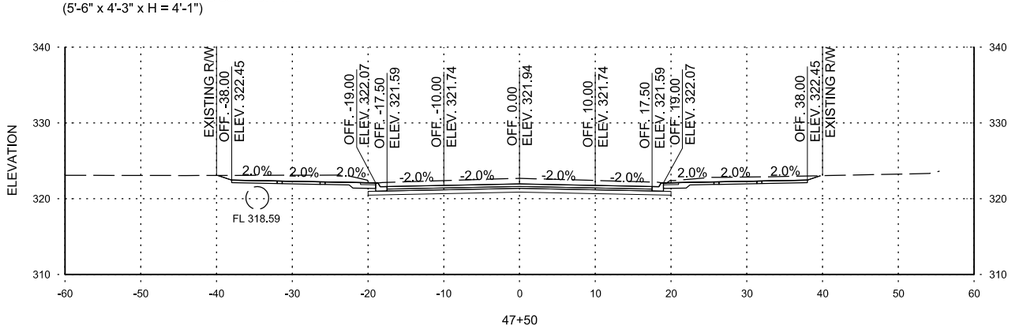
48+00

STA. 47+89.00 CONSTRUCT REVERSE THROAT DROP INLET 17.00' RT.
WITH 4' EXTENSION AND 18" x 29' R.C. PIPE TO DROP INLET AT STA. 47+89.00 LT.
(5' x 4' x H = 2'-11")
18" R.C. PIPE (CLASS V)
(TYPE 3 BEDDING) = 29 LIN. FT.



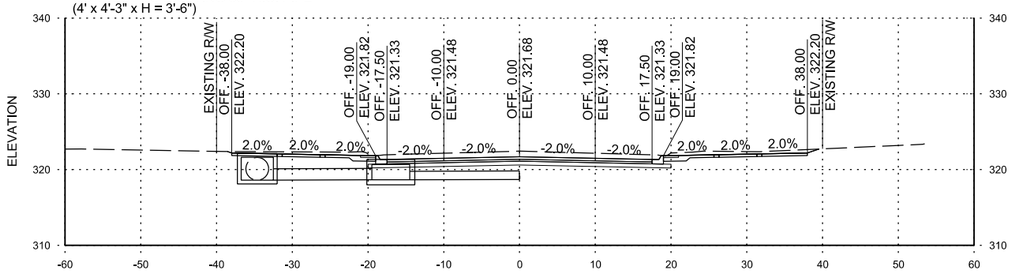
STA. 47+89.25 CONSTRUCT
TYPE ST JUNCTION BOX 34.62' LT.
CONNECT TO EXISTING 36" R.C. PIPE
(5'-6" x 4'-3" x H = 4'-1")

47+89



STA. 47+17.92 CONSTRUCT
TYPE ST JUNCTION BOX 34.63' LT.
CONNECT TO EXISTING 36" R.C. PIPE
(4' x 4'-3" x H = 3'-6")

47+50

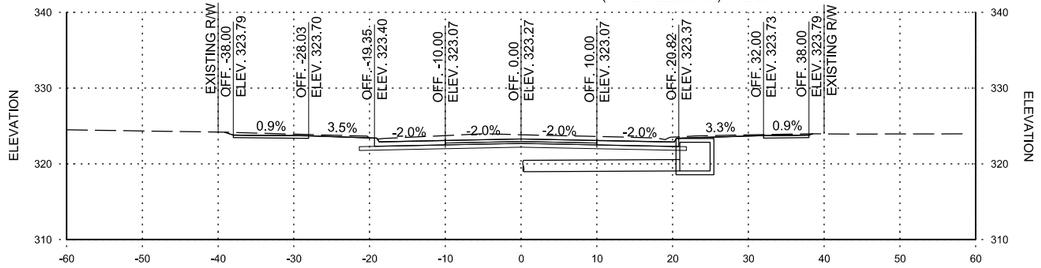


STA. 47+17.92 CONSTRUCT REVERSE THROAT DROP INLET 17.00' LT. WITH 4' EXTENSION
AND 18" x 13' R.C. PIPE TO JUNCTION BOX AT STA. 47+17.92 LT. (5' x 4' x H = 2'-8")
18" R.C. PIPE (CLASS III) (TYPE 3 BEDDING) = 13 LIN. FT.

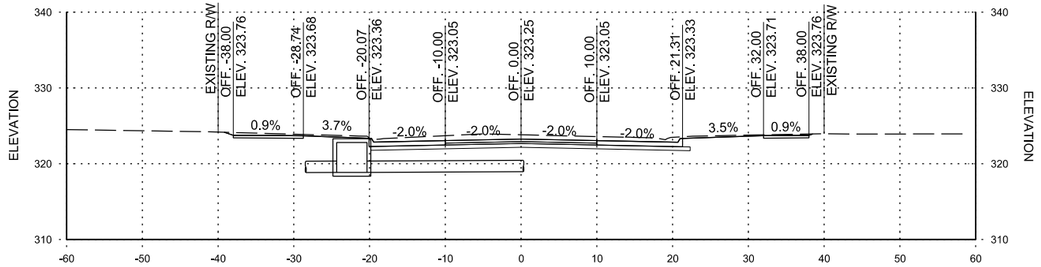
47+18

STA. 47+18 TO STA. 48+89

STA. 48+88.62 CONSTRUCT
TYPE MO DROP INLET 22.96' RT.
WITH 2-4' EXTENSIONS AND
18" x 42' R.C. PIPE TO
DROP INLET AT STA. 48+86.85 LT.
(4' DIA. x H = 4'-3")
18" R.C. PIPE (CLASS IV)
(TYPE 3 BEDDING) = 42 LIN. FT.

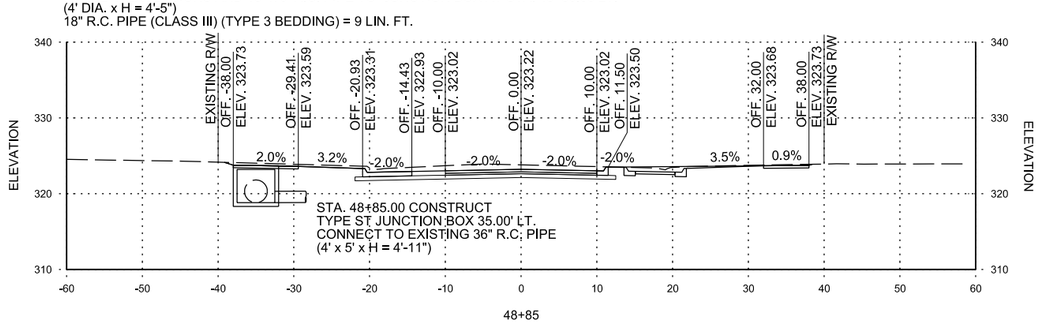


48+89



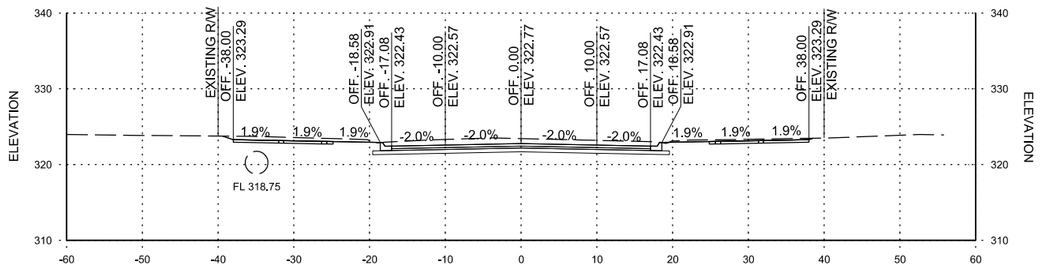
STA. 48+86.85 CONSTRUCT TYPE MO DROP INLET 22.34' LT.
WITH 2-4' EXTENSIONS AND 18" x 9' R.C. PIPE TO JUNCTION BOX AT STA. 48+85.00 LT.
(4' DIA. x H = 4'-5")
18" R.C. PIPE (CLASS III) (TYPE 3 BEDDING) = 9 LIN. FT.

48+87



STA. 48+85.00 CONSTRUCT
TYPE ST JUNCTION BOX 35.00' LT.
CONNECT TO EXISTING 36" R.C. PIPE
(4' x 5' x H = 4'-11")

48+85



48+50

FINAL PLANS
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

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METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

MARKHAM STREET
CROSS
SECTIONS

JOB NO.: 16017122
DATE: MARCH 2018
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DRAWN BY: DLT

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CX-16

SHEET
NUMBER **CX16**

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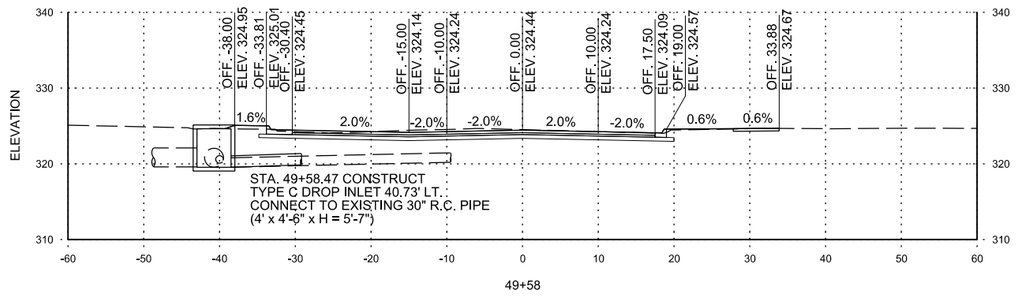

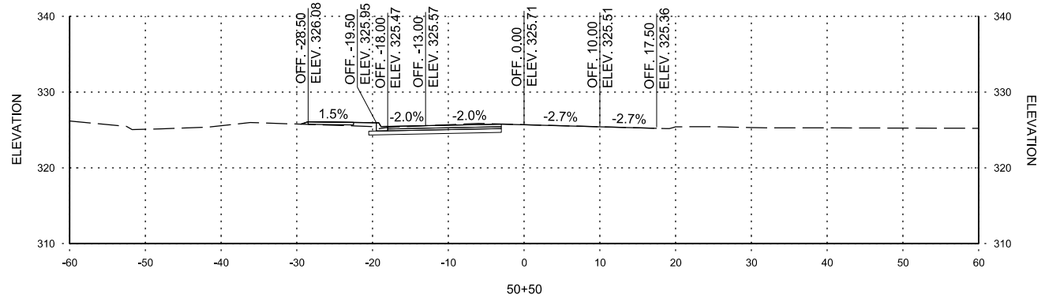

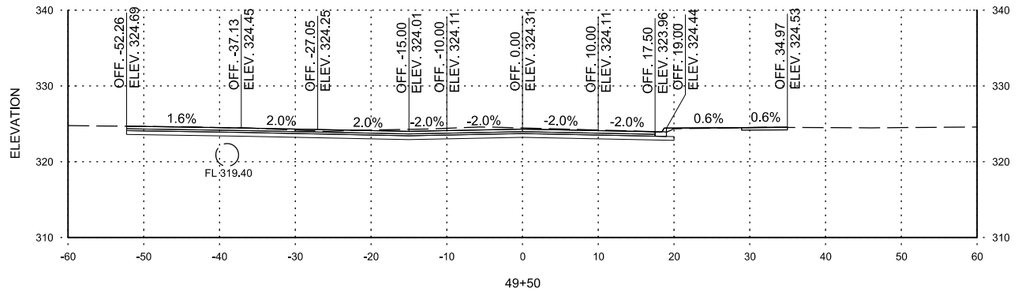

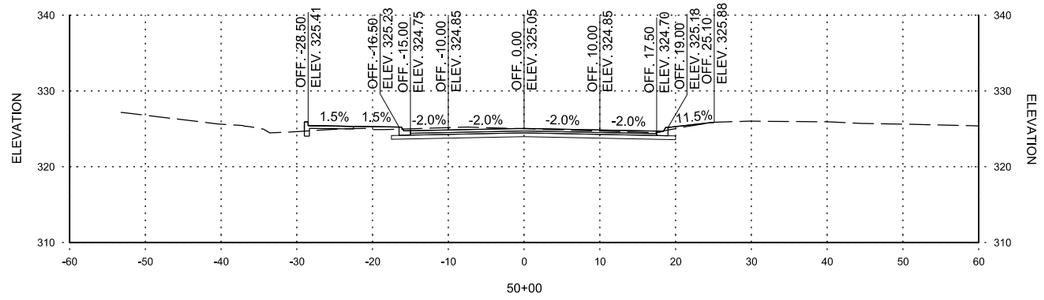

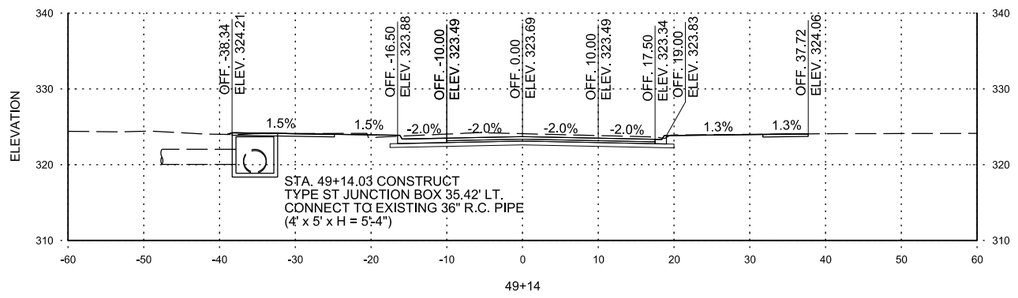

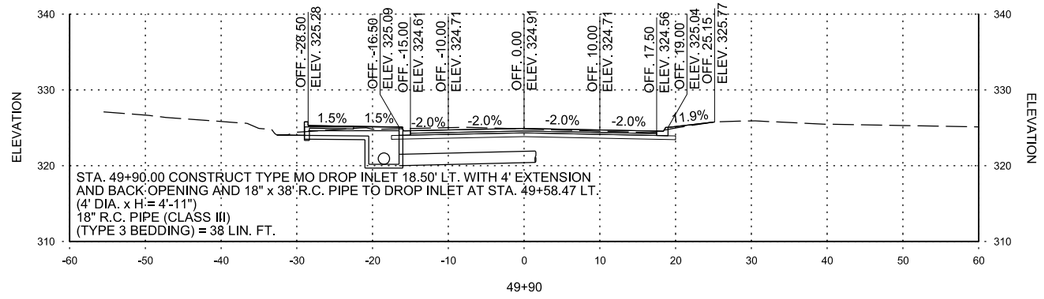

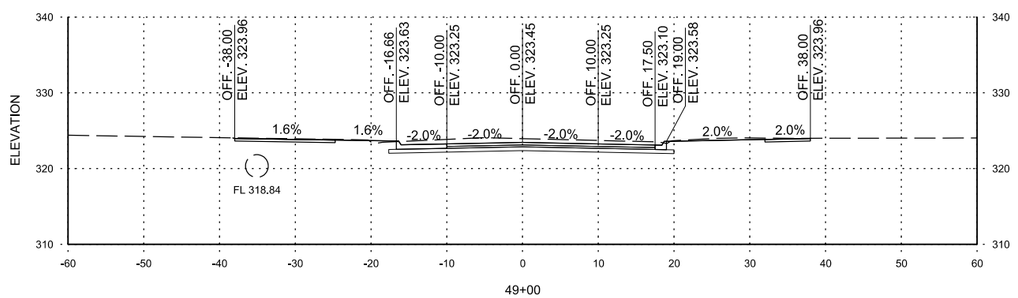

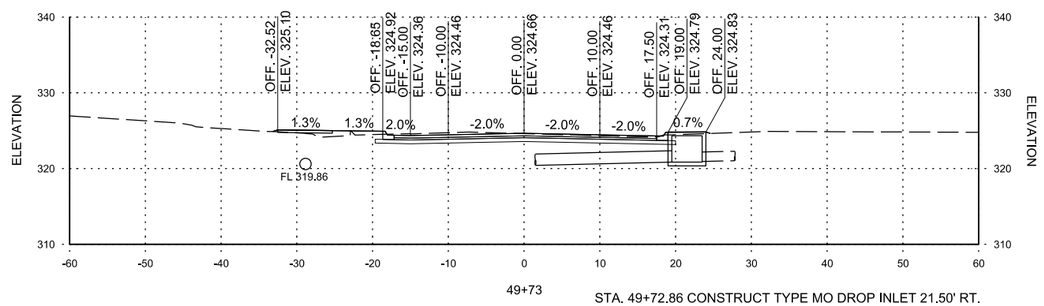

STA. 49+72.86 CONSTRUCT TYPE MO DROP INLET 21.50' RT.
ON EXISTING 15" R.C. PIPE WITH 4' EXTENSION AND
18" x 40' R.C. PIPE TO DROP INLET AT STA. 49+90.00 LT.
(4' DIA. x H = 4'-0")
18" R.C. PIPE (CLASS V)
(TYPE 3 BEDDING) = 40 LIN. FT.

STA. 49+00 TO STA. 50+50

FINAL PLANS
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REV.	DATE	DESCRIPTION	BY

METROPLAN
SMART PLANNING MAKES SMART PLACES.

METROPLAN
LITTLE ROCK, ARKANSAS

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

MARKHAM STREET
CROSS
SECTIONS

JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

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CX-17

SHEET
NUMBER **CX17**

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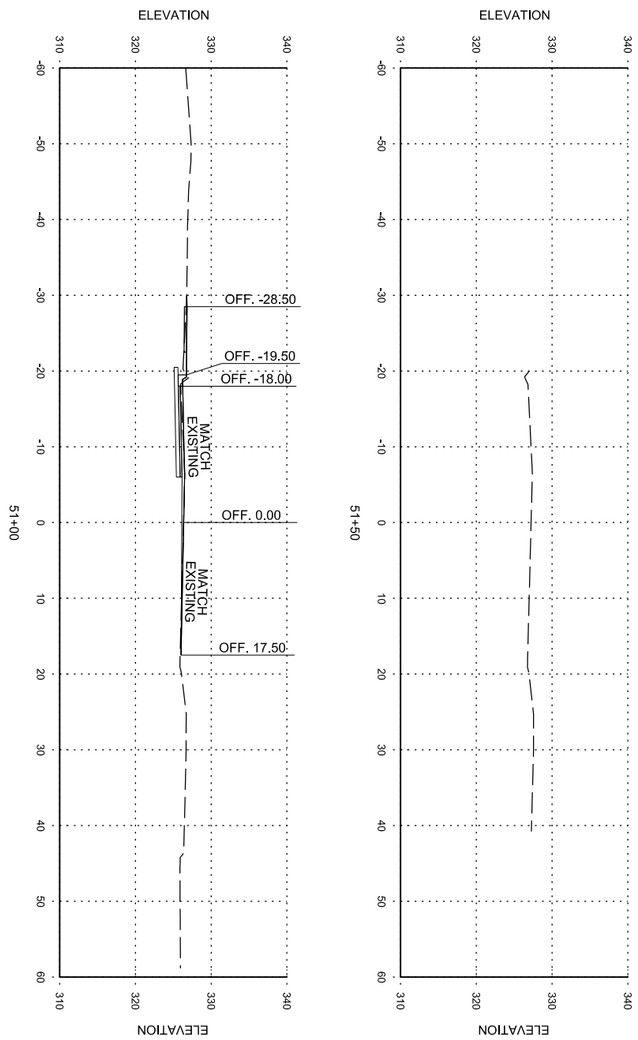
STA. 51+00 TO STA. 51+50



SHEET NUMBER **CX18**

DRAWING NUMBER **CX-18**

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JOB NO.: 16017122
DATE: MARCH 2018
DESIGNED BY: DLT
DRAWN BY: DLT

MARKHAM STREET CROSS SECTIONS

METROPLAN
LITTLE ROCK, ARKANSAS

METROPLAN
SMART PLANNING MAKES SMART PLACES.

MARKHAM ST. JUMP START IMPVTS.
(CONWAY) (S)

REV.	DATE	DESCRIPTION	BY

FINAL PLANS
NOT FOR CONSTRUCTION