

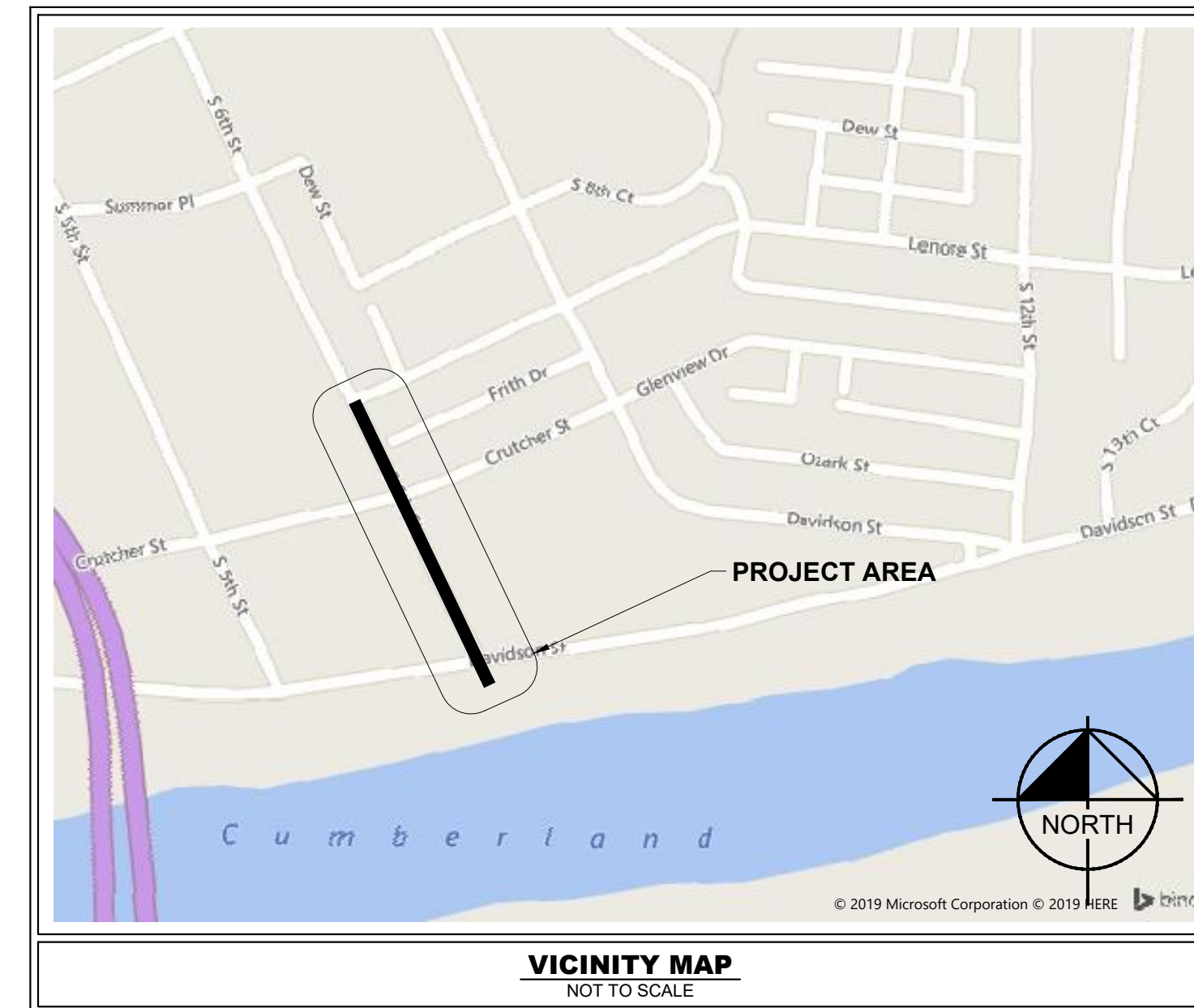
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CAYCE UTILITY PHASE 1A

S 6TH ST
NASHVILLE, TN

BID SET: 10/08/2020

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COUNCIL DISTRICT 6
COUNCIL MEMBER BRETT WITHERS
CITY OF NASHVILLE
DAVIDSON COUNTY, TN

PROJECT DESIGN TEAM

CIVIL ENGINEER

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EMAIL: JOHN.AGEE@TERRACON.COM

PERMITTING / UTILITY CONTACTS

STORMWATER

METRO WATER SERVICES
COURTNEY LARSON
800 SECOND AVE. SOUTH
NASHVILLE, TN 37210
PHONE: (615) 862-4572
EMAIL: COURTNEY.LARSON@NASHVILLE.GOV

WATER

METRO WATER SERVICES
COURTNEY LARSON
800 SECOND AVE. SOUTH
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PHONE: (615) 862-4572
EMAIL: COURTNEY.LARSON@NASHVILLE.GOV

SANITARY SEWER

METRO WATER SERVICES
COURTNEY LARSON
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PHONE: (615) 862-4572
EMAIL: COURTNEY.LARSON@NASHVILLE.GOV

FIRE CHIEF

METRO NASHVILLE FIRE MARSHAL
JOE ALMON
800 SECOND AVE. SOUTH
NASHVILLE, TN 37210
PHONE: (615) 862-6242
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NATURAL GAS

COLONIAL PIPELINE COMPANY
GATOR BACKENSTOSS
P.O. BOX 1624
ALPHARETTA, GA 30009-9934
PHONE: (256) 239-1592
EMAIL: ABACKENSTOSS@COLPIPE.COM

NATURAL GAS

PIEDMONT NATURAL GAS
STEVE KING
83 CENTURY BOULEVARD
NASHVILLE, TN 37214
PHONE: 615-533-6960
EMAIL: STEVE.KING@DUKE-ENERGY.COM

TELEPHONE

AT&T
TIM HASLER
6405 CENTENNIAL BOULEVARD
NASHVILLE, TN 37209
PHONE: 615-350-9375

ELECTRIC

NASHVILLE ELECTRIC SERVICE
PAUL HARDIN
1214 CHURCH STREET
NASHVILLE, TN 37246
PHONE: (615) 747-3688
EMAIL: PHARDIN@NESPOWER.COM

CABLE

COMCAST
KEVIN VIA
660 MAINSTREAM DRIVE
NASHVILLE, TN 37228
PHONE: (615) 405-5563

ZONING

METRO NASHVILLE ZONING
JON MICHAEL
800 SECOND AVE. SOUTH
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PHONE: (615) 862-6608

BUILDING DEPT.

METRO NASHVILLE CODES
WADE HILL
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NASHVILLE, TN 37210
PHONE: (615) 862-6520

URBAN FORESTER

METRO NASHVILLE
STEPHAN KIVETT
800 SECOND AVE. SOUTH
NASHVILLE, TN 37210
PHONE: (615) 862-6488

METRO PERMITTING REFERENCE	
GRADING PERMIT:	SWGR 2020022916
WATER PERMIT:	20WL0050
SEWER PERMIT:	20SL0094

OWNER / DEVELOPER



MDHA
701 S 6TH ST
NASHVILLE, TN, 37206
PHONE: 615-252-8497
EMAIL: MWGERSON@NASHVILLE-MDHA.ORG
CONTACT: MIKE WEGERSON

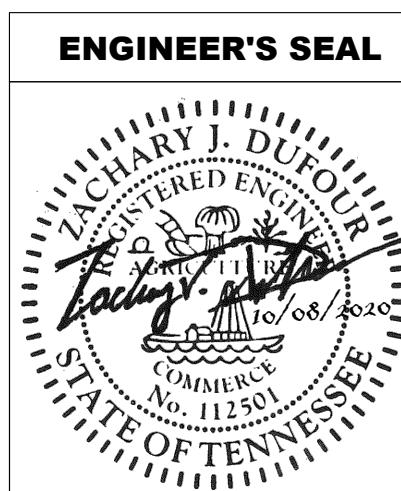
PLANS PREPARED BY

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PLAN REVISIONS

REVISION NO.	DATE	REMARKS



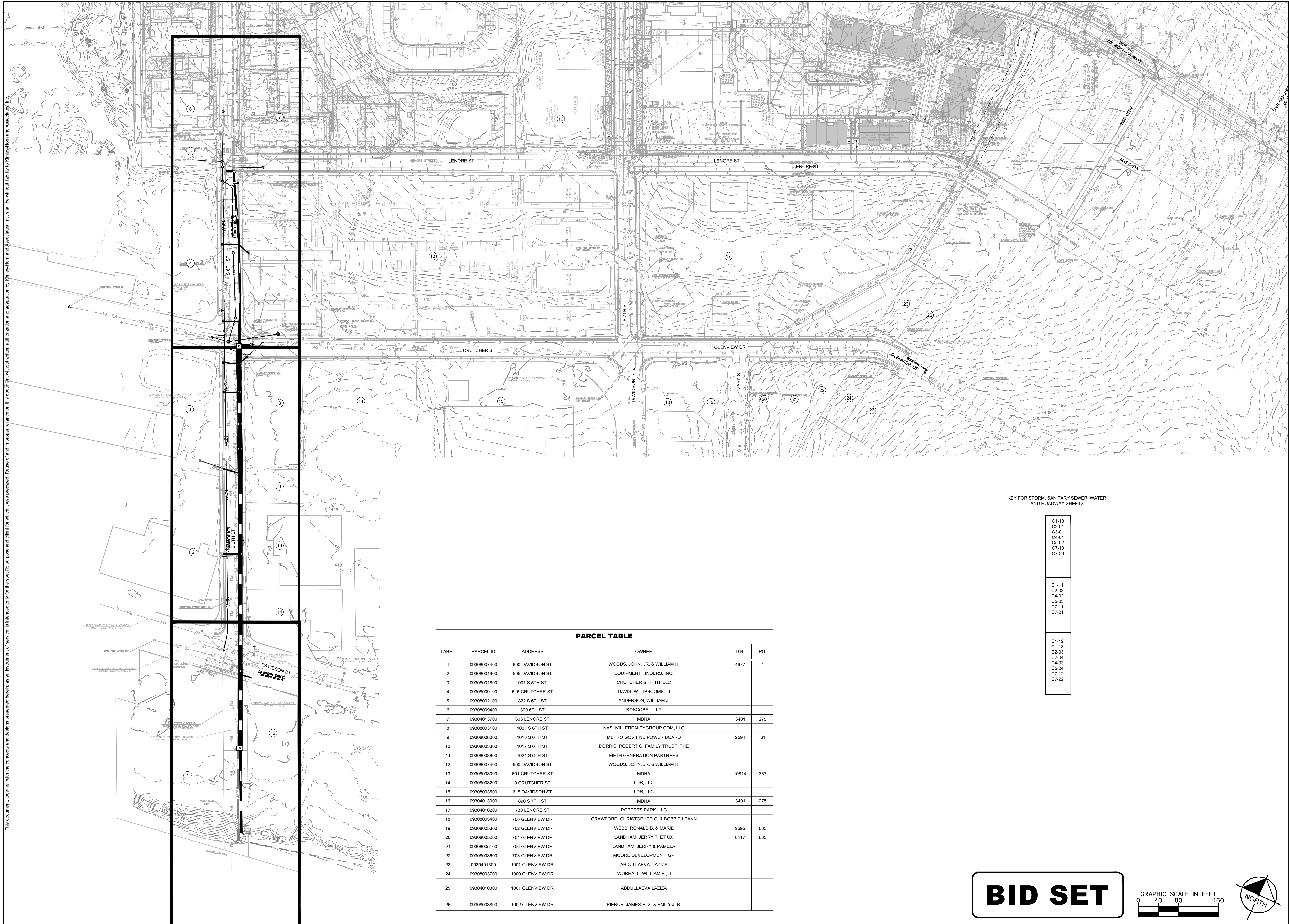
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118109016	C0-00	41

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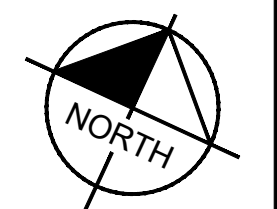
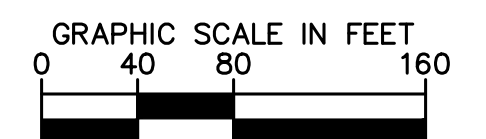


KEY FOR STORM, SANITARY SEWER, WATER AND ROADWAY SHEETS

- C1-10
 - C2-01
 - C3-01
 - C4-01
 - C5-02
 - C7-10
 - C7-20
-
- C1-11
 - C2-02
 - C4-02
 - C5-03
 - C7-11
 - C7-21
-
- C1-12
 - C1-13
 - C2-03
 - C2-04
 - C4-03
 - C5-04
 - C7-12
 - C7-22

PARCEL TABLE					
LABEL	PARCEL ID	ADDRESS	OWNER	D.B.	PG.
1	09308007400	600 DAVIDSON ST	WOODS, JOHN, JR. & WILLIAM H.	4677	1
2	09308001900	505 DAVIDSON ST	EQUIPMENT FINDERS, INC.		
3	09308001800	901 S 5TH ST	CRUTCHER & FIFTH, LLC		
4	09308009100	515 CRUTCHER ST	DAVIS, W. LIPSCOMB, III		
5	09308002100	822 S 6TH ST	ANDERSON, WILLIAM J.		
6	09308009400	800 6TH ST	BOSCOBEL I, LP		
7	09304013700	603 LENORE ST	MDHA	3401	275
8	09308003100	1001 S 6TH ST	NASHVILLEREALTYGROUP.COM, LLC		
9	09308008000	1013 S 6TH ST	METRO GOVT NE POWER BOARD	2594	61
10	09308003300	1017 S 6TH ST	DORRIS, ROBERT G. FAMILY TRUST, THE		
11	09308008800	1021 S 6TH ST	FIFTH GENERATION PARTNERS		
12	09308007400	600 DAVIDSON ST	WOODS, JOHN, JR. & WILLIAM H.		
13	09308003000	601 CRUTCHER ST	MDHA	10814	367
14	09308003200	0 CRUTCHER ST	LDR, LLC		
15	09308003500	615 DAVIDSON ST	LDR, LLC		
16	09304013900	890 S 7TH ST	MDHA	3401	275
17	09304010200	730 LENORE ST	ROBERTS PARK, LLC		
18	09308005400	700 GLENVIEW DR	CRAWFORD, CHRISTOPHER C. & BOBBIE LEANN		
19	09308005300	702 GLENVIEW DR	WEBB, RONALD B. & MARIE	9595	885
20	09308005200	704 GLENVIEW DR	LANDHAM, JERRY T. ET UX	8417	835
21	09308005100	706 GLENVIEW DR	LANDHAM, JERRY & PAMELA		
22	09308003600	708 GLENVIEW DR	MOORE DEVELOPMENT, GP		
23	09304013000	1001 GLENVIEW DR	ABDULLAeva, LAZIZA		
24	09308003700	1000 GLENVIEW DR	WORRALL, WILLIAM E., II		
25	09304010300	1001 GLENVIEW DR	ABDULLAeva LAZIZA		
26	09308003800	1002 GLENVIEW DR	PIERCE, JAMES E. S. & EMILY J. B.		

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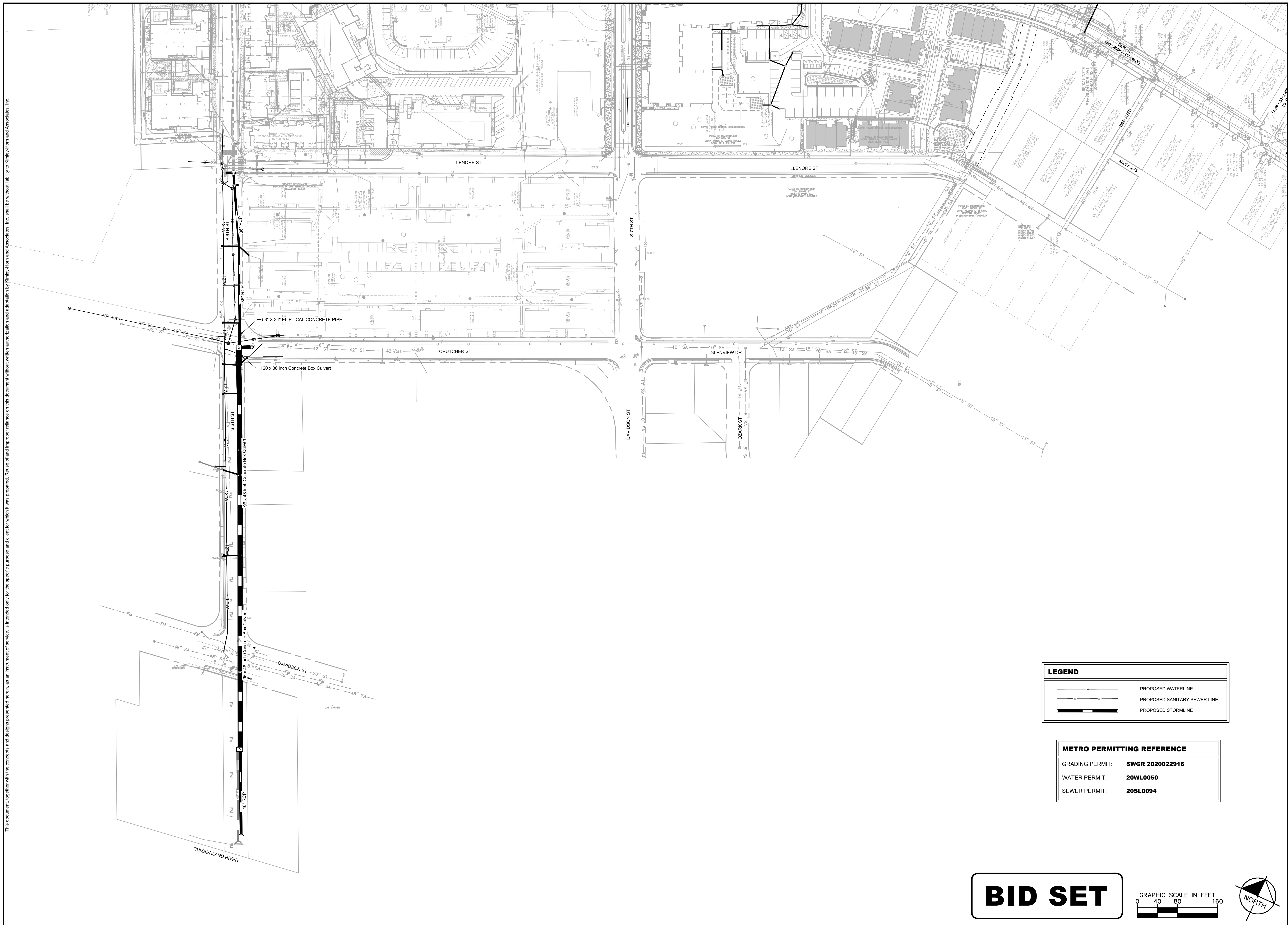
CAYCE UTILITY PHASE 1A
MDHA
 NASHVILLE, TN



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DESIGNED BY: KKF
 DRAWN BY: LEB
 CHECKED BY: ZJD
 DATE: 10/08/2020
 KIMLEY-HORN PROJECT NO. 118109016
 OVERALL KEY MAP
 SHEET NUMBER
C1-00

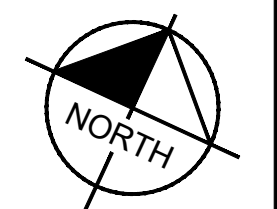
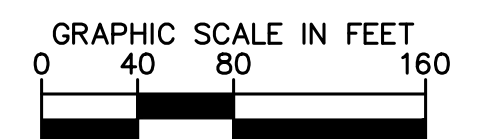
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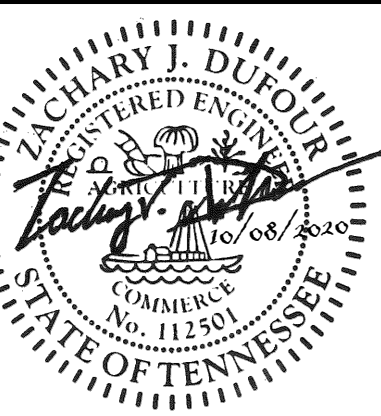
LEGEND	
	PROPOSED WATERLINE
	PROPOSED SANITARY SEWER LINE
	PROPOSED STORMLINE

METRO PERMITTING REFERENCE	
GRADING PERMIT:	SWGR 2020022916
WATER PERMIT:	20WL0050
SEWER PERMIT:	20SL0094

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CAYCE UTILITY PHASE 1A
MDHA
NASHVILLE, TN

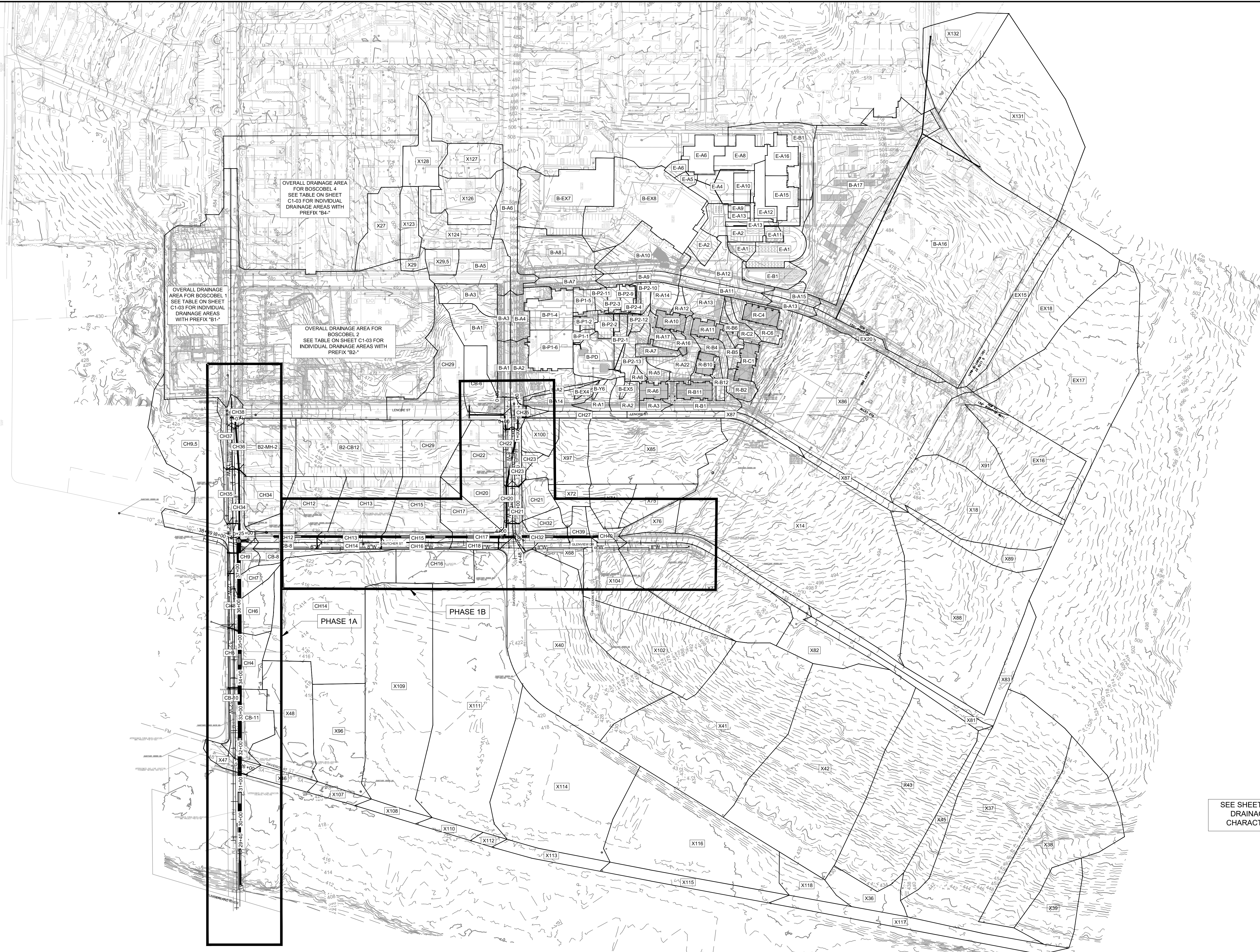


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DATE:	10/08/2020
KIMLEY-HORN PROJECT NO.	118109016

OVERALL UTILITY LAYOUT
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C1-01

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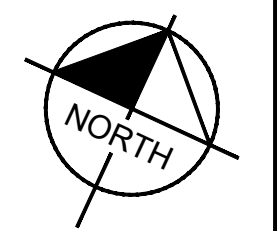
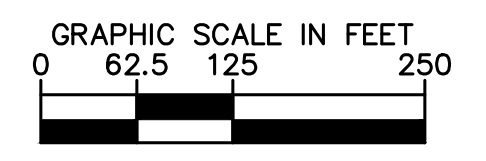
OVERALL DRAINAGE AREA FOR BOSCOBEL 4
SEE TABLE ON SHEET C1-03 FOR INDIVIDUAL DRAINAGE AREAS WITH PREFIX "B4."

OVERALL DRAINAGE AREA FOR BOSCOBEL 1
SEE TABLE ON SHEET C1-03 FOR INDIVIDUAL DRAINAGE AREAS WITH PREFIX "B1."

OVERALL DRAINAGE AREA FOR BOSCOBEL 2
SEE TABLE ON SHEET C1-03 FOR INDIVIDUAL DRAINAGE AREAS WITH PREFIX "B2."

SEE SHEET C1-03 FOR DRAINAGE AREA CHARACTERISTICS

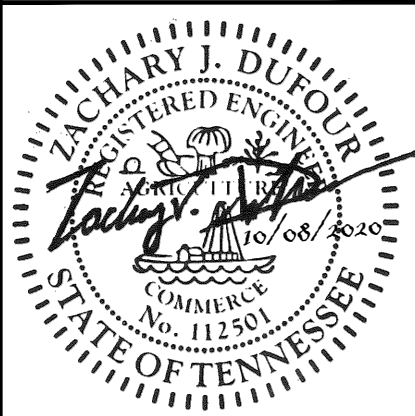
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NASHVILLE, TN

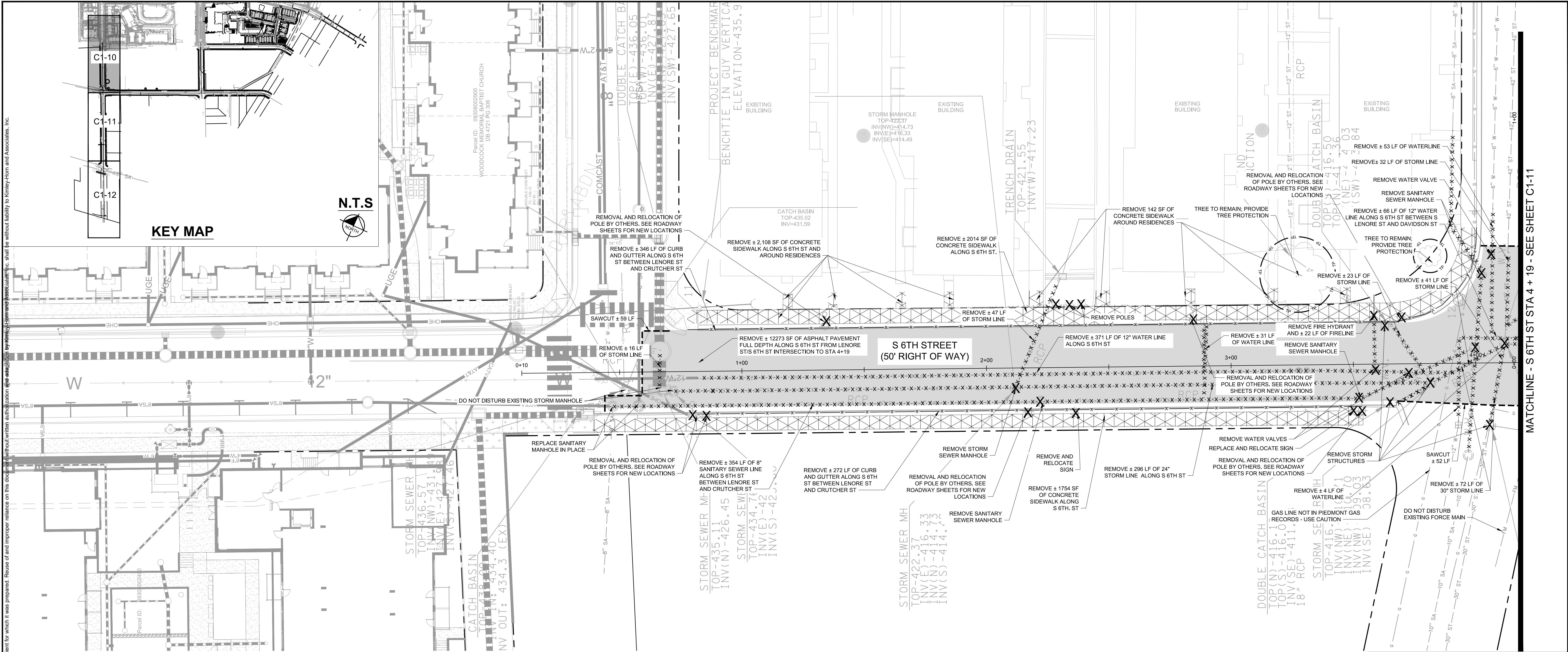
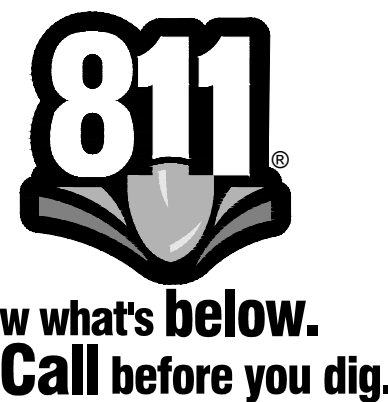


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DRAINAGE MAP
SHEET NUMBER
C1-02

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KEY MAP

N.T.S

MATCHLINE - S 6TH ST STA 4 + 19 - SEE SHEET C1-11

DEMOLITION LEGEND	
	REMOVE PAVEMENT FULL DEPTH
	CLEAR BRUSH AND TREES
	REMOVE CONCRETE / RIGID PAVEMENT
	REMOVE LINEAR OBJECT
	UTILITY PIPE TO BE REMOVED
	UTILITY PIPE TO BE ABANDONED IN PLACE
	SAWCUT PAVEMENT
	REMOVE OBJECT

EXISTING UTILITIES NOTE

- CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES AND/OR CONFLICTS WITH EXISTING OR PROPOSED UTILITIES PRIOR TO PROCEEDING.
- LOCATIONS OF FORCE MAIN AND GAS LINES ARE APPROXIMATE. CONTRACTOR IS NOT TO DISTURB EXISTING FORCE MAIN OR GAS LINES

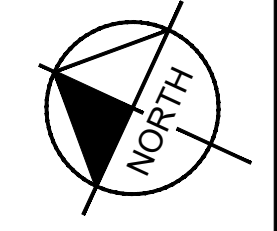
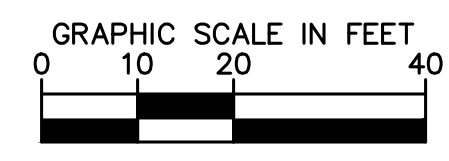
SEE DEMOLITION NOTES, SHEET C0-01.



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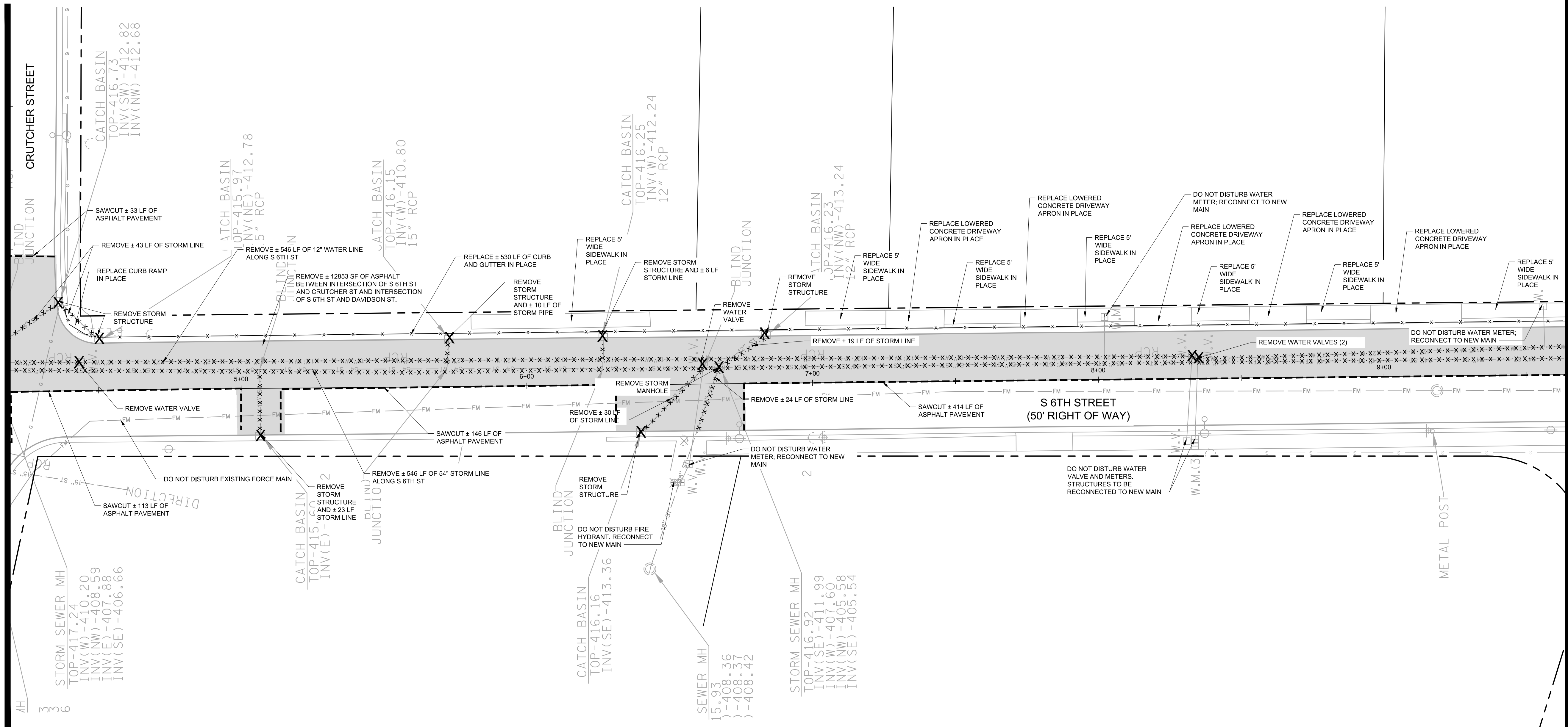
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DEMOLITION PLAN	
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C1-10	

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MATCHLINE - S 6TH ST STA 4 + 19 - SEE SHEET C1-10



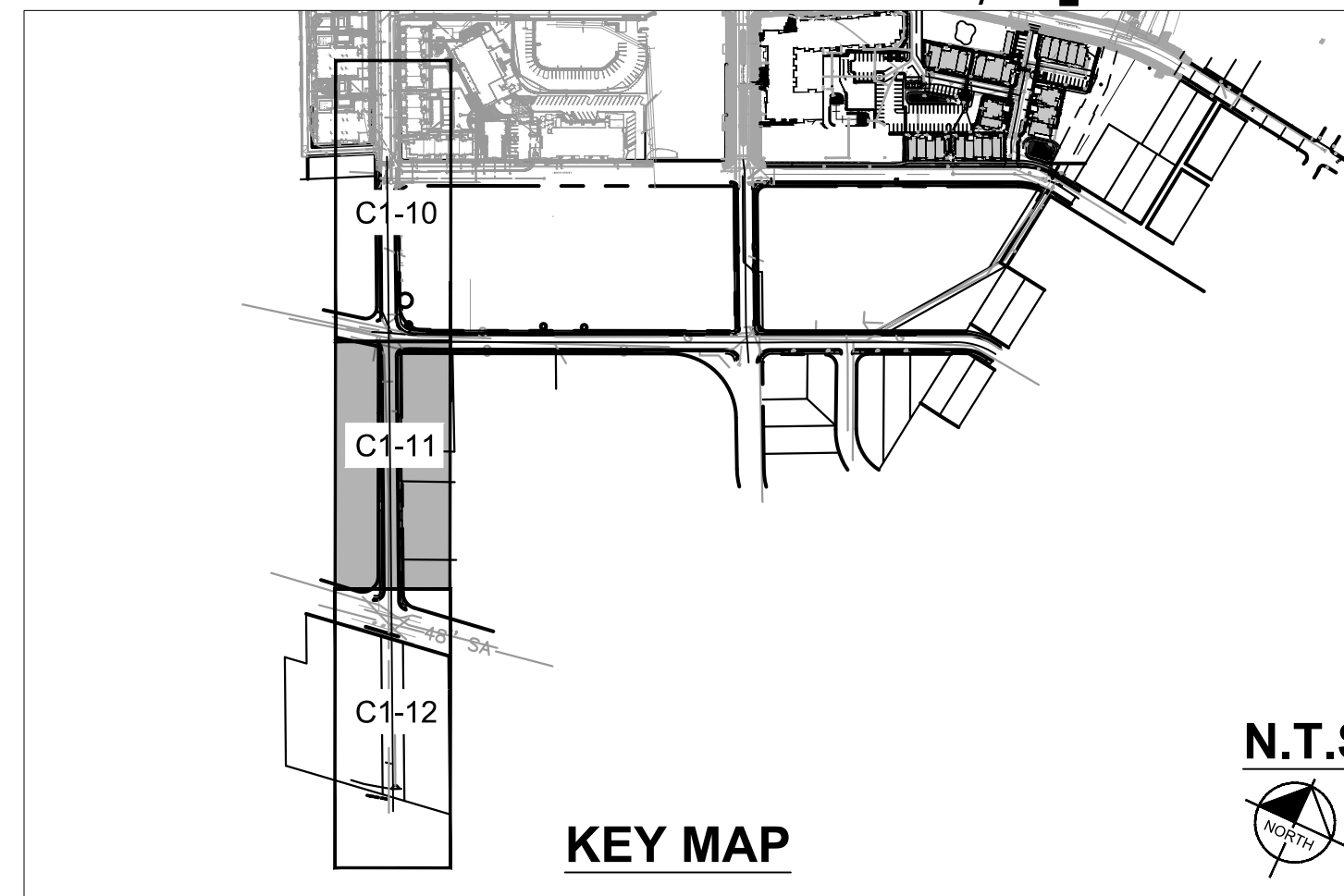
MATCHLINE - S 6TH ST STA 9 + 65 - SEE SHEET C1-12

DEMOLITION LEGEND

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	CLEAR BRUSH AND TREES
	REMOVE CONCRETE / RIGID PAVEMENT
	REMOVE LINEAR OBJECT
	UTILITY PIPE TO BE REMOVED
	UTILITY PIPE TO BE ABANDONED IN PLACE
	SAWCUT PAVEMENT
	REMOVE OBJECT

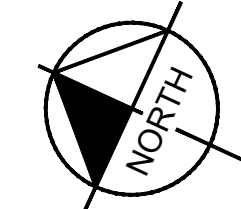
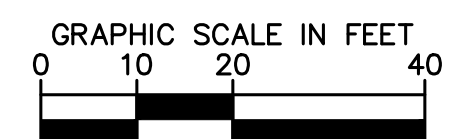
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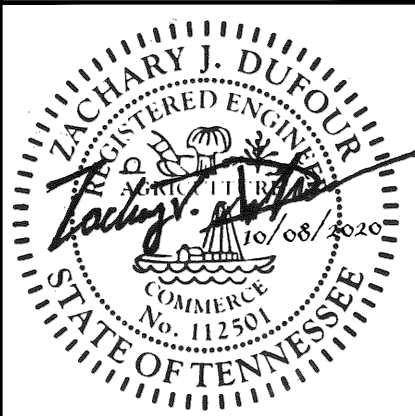


SEE DEMOLITION NOTES, SHEET C0-01.

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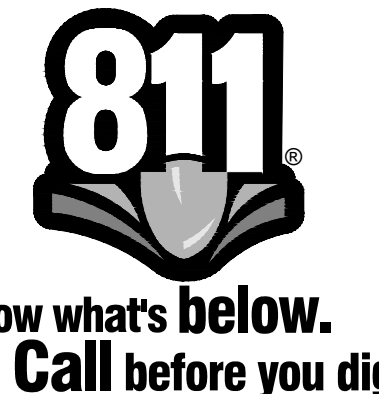


CAYCE UTILITY PHASE 1A
MDHA
NASHVILLE, TN



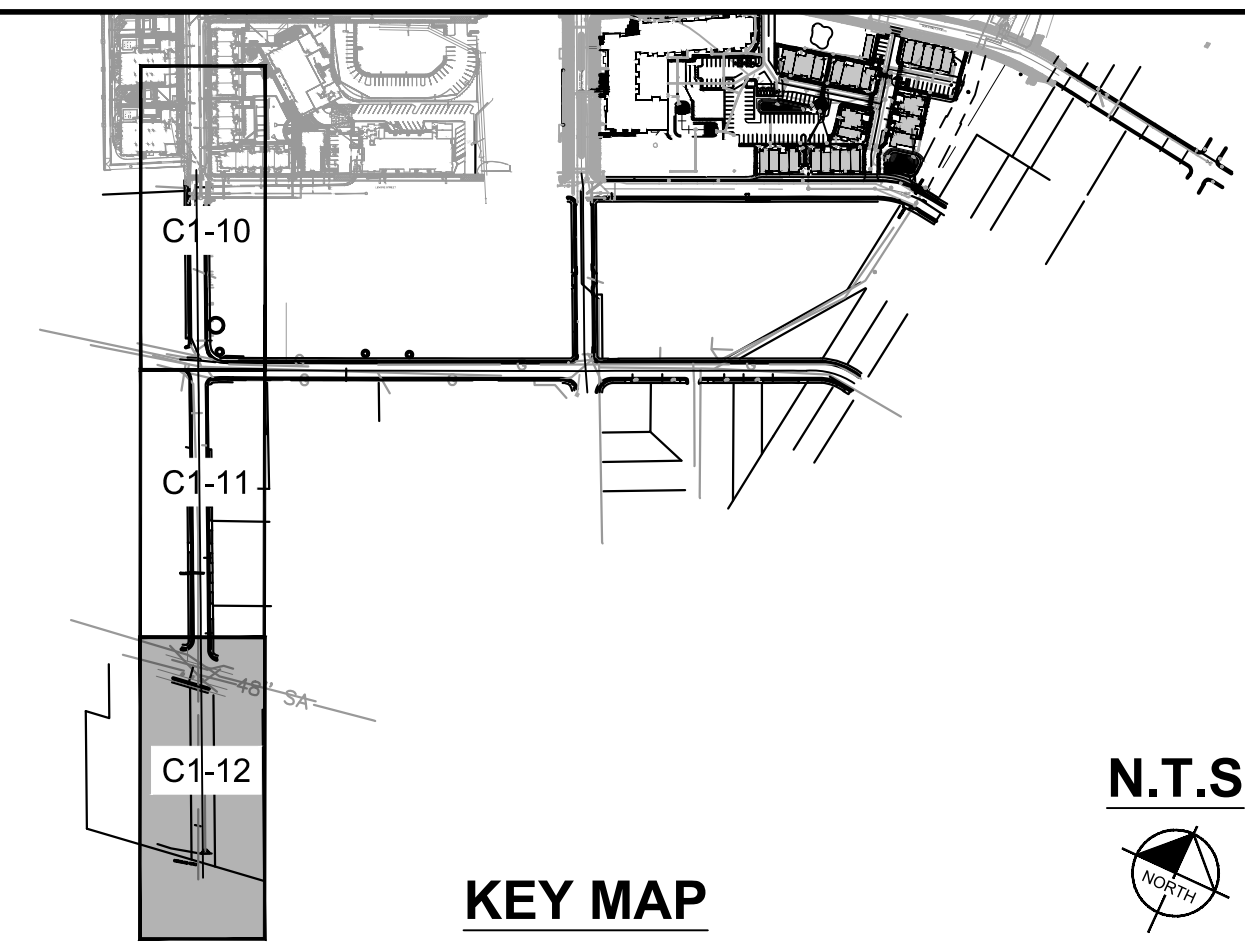
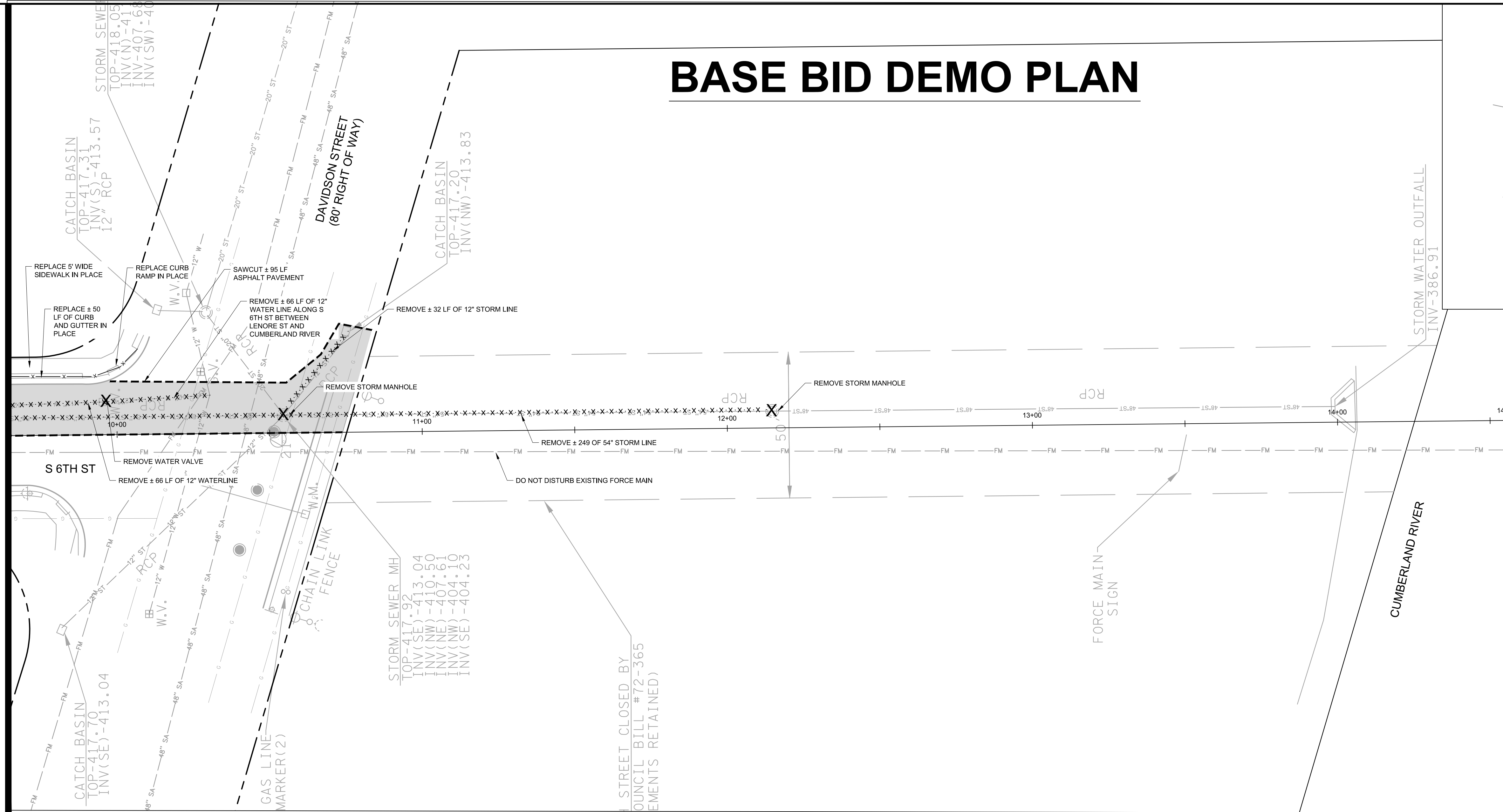
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DRAWN BY:	LEB
CHECKED BY:	ZJD
DATE:	10/08/2020
KIMLEY-HORN PROJECT NO.:	118109016

DEMOLITION PLAN
SHEET NUMBER
C1-11



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MATCHLINE - S 6TH ST STA 9 + 65 - SEE SHEET C1-11



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CAYCE UTILITY PHASE 1A
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 NASHVILLE, TN

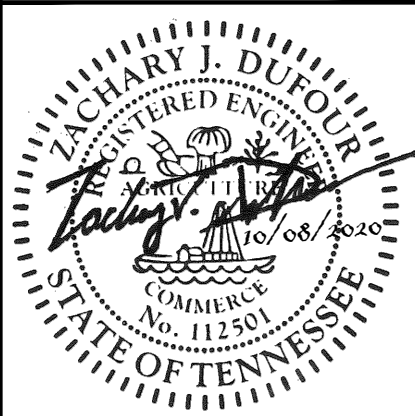
DEMOLITION LEGEND

	REMOVE PAVEMENT FULL DEPTH
	CLEAR BRUSH AND TREES
	REMOVE CONCRETE / RIGID PAVEMENT
	REMOVE LINEAR OBJECT
	UTILITY PIPE TO BE REMOVED
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	SAWCUT PAVEMENT
	REMOVE OBJECT

EXISTING UTILITIES NOTE

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SEE DEMOLITION NOTES, SHEET C0-01.



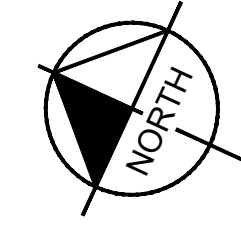
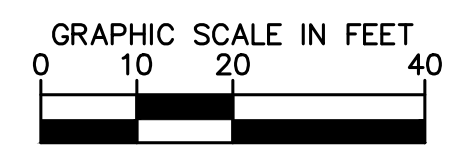
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DESIGNED BY: KKF
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 CHECKED BY: ZJD
 DATE: 10/08/2020
 KIMLEY-HORN PROJECT NO. 118109016

DEMOLITION PLAN
 SHEET NUMBER
C1-12



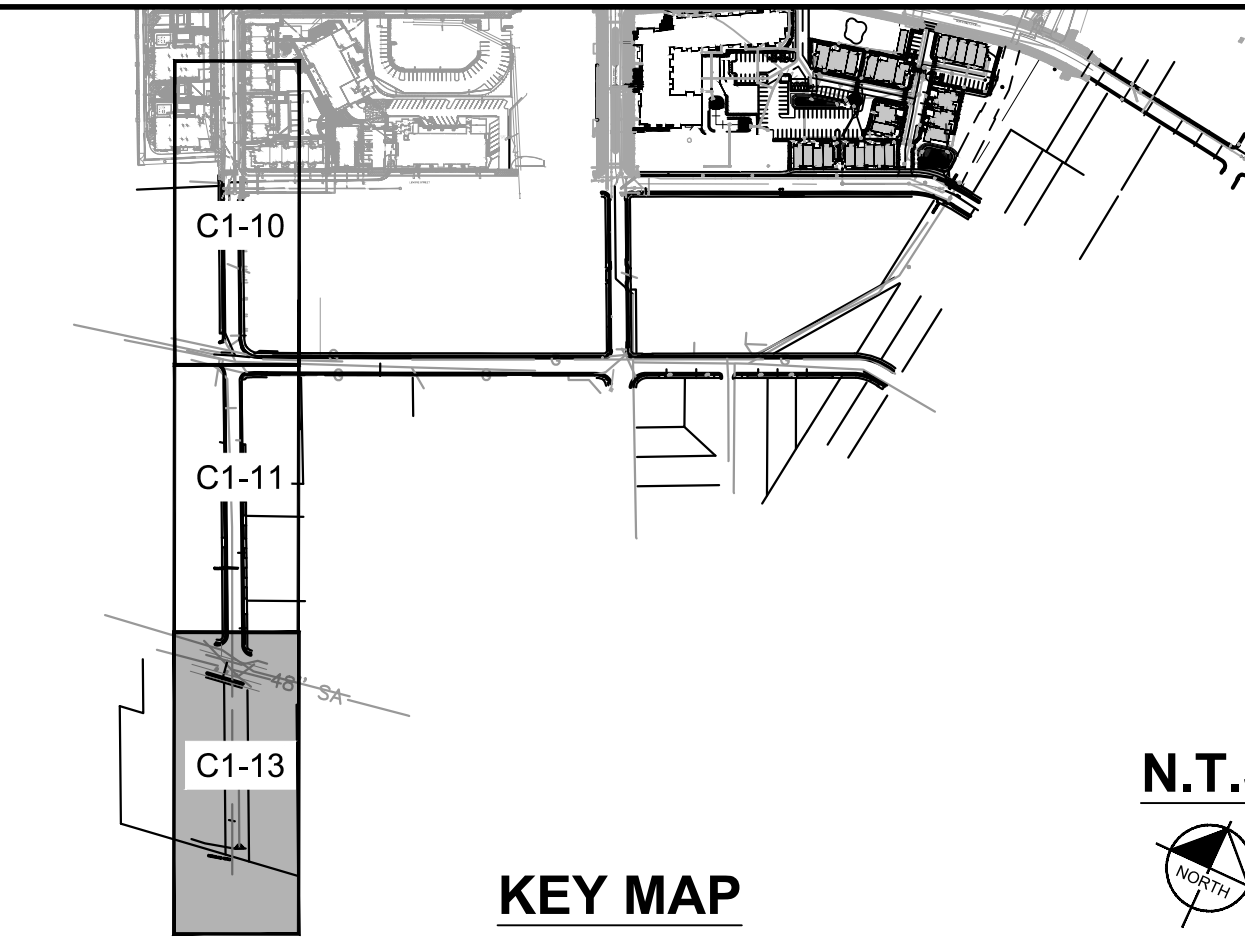
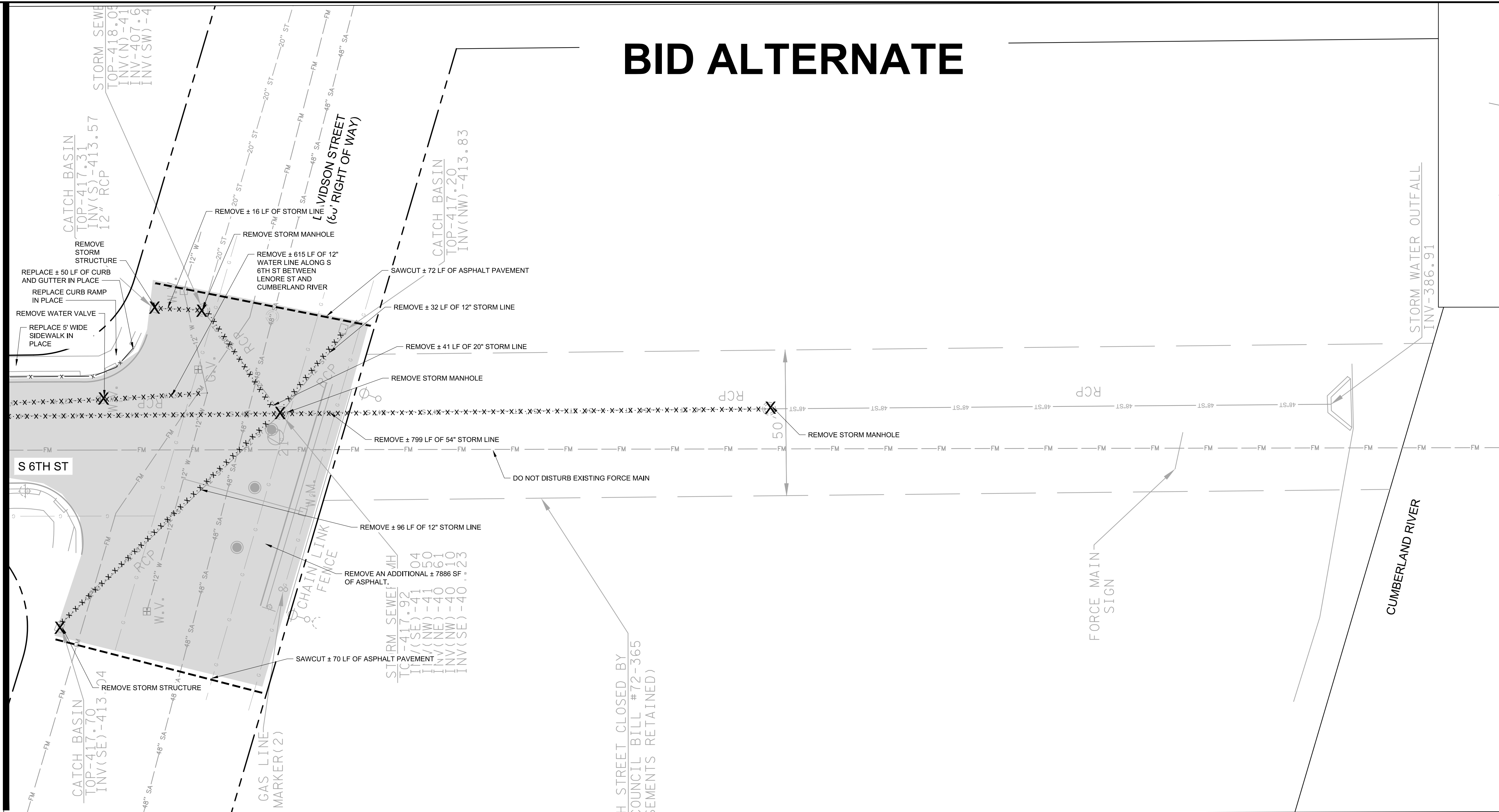
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MATCHLINE - S 6TH ST STA 9 + 65 - SEE SHEET C1-11

BID ALTERNATE



N.T.S.



DEMOLITION LEGEND

	REMOVE PAVEMENT FULL DEPTH
	CLEAR BRUSH AND TREES
	REMOVE CONCRETE / RIGID PAVEMENT
	REMOVE LINEAR OBJECT
	UTILITY PIPE TO BE REMOVED
	UTILITY PIPE TO BE ABANDONED IN PLACE
	SAWCUT PAVEMENT
	REMOVE OBJECT

EXISTING UTILITIES NOTE

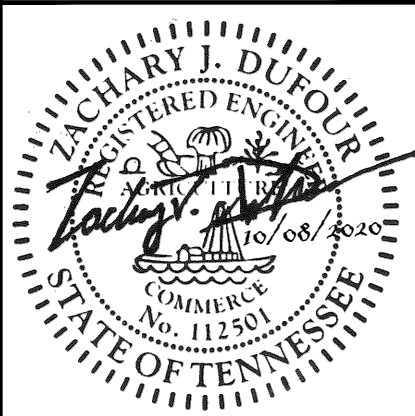
- CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES AND/OR CONFLICTS WITH EXISTING OR PROPOSED UTILITIES PRIOR TO PROCEEDING.
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SEE DEMOLITION NOTES, SHEET C0-01.

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CAYCE UTILITY PHASE 1A
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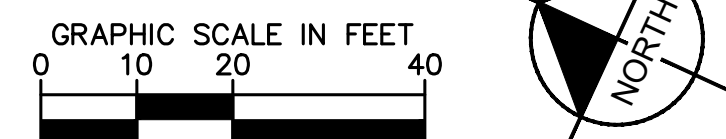


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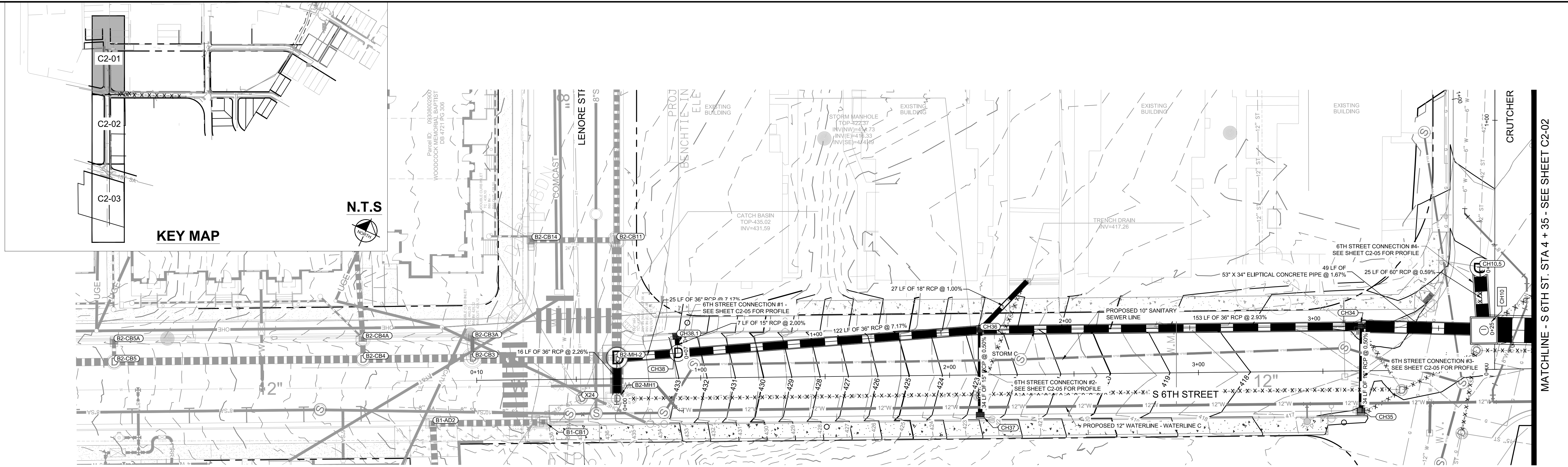
DESIGNED BY: KKF
 DRAWN BY: LEB
 CHECKED BY: ZJD
 DATE: 10/08/2020
 KIMLEY-HORN PROJECT NO. 118109016

DEMOLITION PLAN - BID ALTERNATE
 SHEET NUMBER
C1-13

BID SET



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STORM NETWORK NAMING CONVENTIONS

THE FOLLOWING NAMING CONVENTIONS APPLY TO THE STORM NETWORK TO DIFFERENTIATE BETWEEN EXISTING, DESIGNED AND PROPOSED FOR THIS PROJECT. ANY PIPE CONTAINING "CHP" IS PROPOSED FOR THE CAYCE PHASE 1

CH#	PROPOSED CAYCE HOMES STRUCTURE/PIPE
B1-#	BOSCOBEL 1 DESIGNED STRUCTURE/PIPE
B2-#	BOSCOBEL 2 DESIGNED STRUCTURE/PIPE
B3-#	BOSCOBEL 3 DESIGNED STRUCTURE/PIPE
E-#	EXPLORE! SCHOOL DESIGNED STRUCTURE/PIPE
R-#	RED OAKS TOWNHOMES DESIGNED STRUCTURE/PIPE
M-#	MARTHA O'BRYAN DESIGNED STRUCTURE/PIPE
X# AND EX-#	EXISTING STORM STRUCTURE/PIPE

EXISTING UTILITIES NOTE

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LEGEND

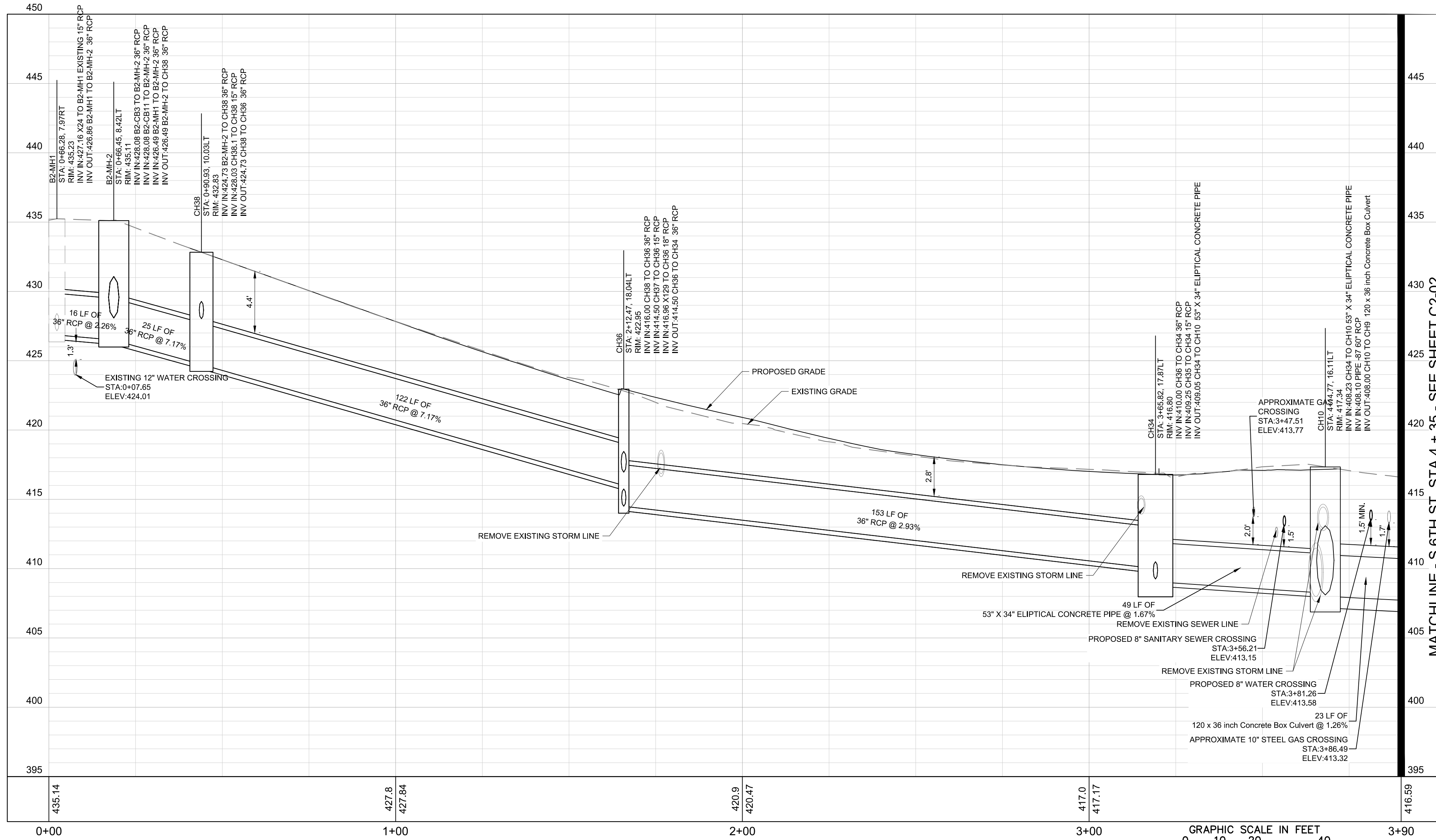
⊙ ⊙ ⊙ ⊙ ⊙ ⊙ ⊙ ⊙ ⊙ ⊙	UTILITY TO BE ABANDONED
⊙ x x x x x x x x x x x x x x x x	UTILITY TO BE REMOVED

PIPE TABLE

NAME	UPSTREAM	DOWNSTREAM	SIZE	LENGTH	SLOPE	MATERIAL
B2-MH-2 - CH38	426.49 (B2-MH-2)	424.73 (CH38)	36" RCP*	25'	7.17%	RCP
B2-MH-1 - B2-MH-2	426.86 (B2-MH-1)	426.49 (B2-MH-2)	36" RCP*	17'	2.26%	RCP
CH10.5 - CH10	408.25 (CH10.5)	408.10 (CH10)	60" RCP*	26'	0.59%	RCP
CH34 - CH10	409.05 (CH34)	408.23 (CH10)	53" X 34" ELLIPTICAL CONCRETE PIPE*	49'	1.67%	RCP
CH35 - CH34	409.42 (CH35)	409.25 (CH34)	15" RCP*	34'	0.50%	RCP
CH36 - CH34	414.50 (CH36)	410.00 (CH34)	36" RCP*	154'	2.93%	RCP
CH37 - CH36	414.67 (CH37)	414.50 (CH36)	15" RCP*	35'	0.50%	RCP
CH38 - CH36	424.73 (CH38)	416.00 (CH36)	36" RCP*	122'	7.17%	RCP
CH38.1 - CH38	428.16 (CH38.1)	428.03 (CH38)	15" RCP*	7'	2.00%	RCP
X129 - CH36	417.23 (X129)	416.96 (CH36)	18" RCP*	28'	1.00%	RCP

STRUCTURE TABLE

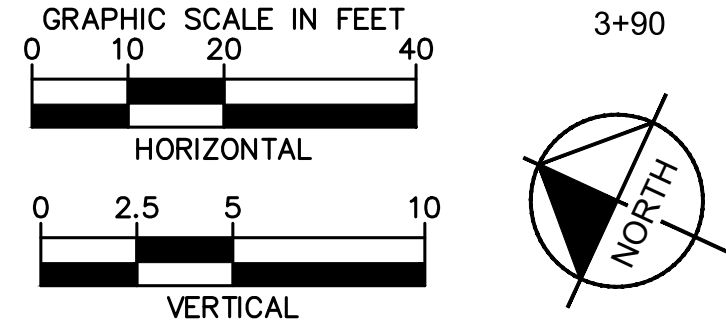
NAME	DESCRIPTION	TOP GRATE
B2-MH-2	EXISTING MANHOLE	435.11
CH10	10' X 10' CONCRETE VAULT	417.34
CH10.5	84" MH	418.12
CH34	84" TDOT D-CB-12RC - DOUBLE	416.80
CH35	METRO DR-105	416.26
CH36	84" TDOT D-CB-12RC - SINGLE	422.95
CH37	METRO DR-105	422.64
CH38	60" MANHOLE	432.83
CH38.1	METRO DR-110	432.79



NOTE: STRUCTURE STATION AND OFFSET DATA REFERENCED TO CENTERLINE ALIGNMENT

STORM C - S 6TH ST

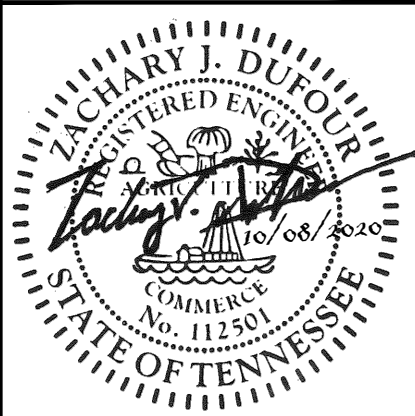
BID SET



MATCHLINE - S 6TH ST - STA 4 + 35 - SEE SHEET C2-02

MATCHLINE - S 6TH ST - STA 4 + 35 - SEE SHEET C2-02

CAYCE UTILITY PHASE 1A
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DESIGNED BY: KFC
 DRAWN BY: LEB
 CHECKED BY: ZJD
 DATE: 10/08/2020
 KIMLEY-HORN PROJECT NO. 118109016

STORM PLAN AND PROFILE
 SHEET NUMBER
C2-01

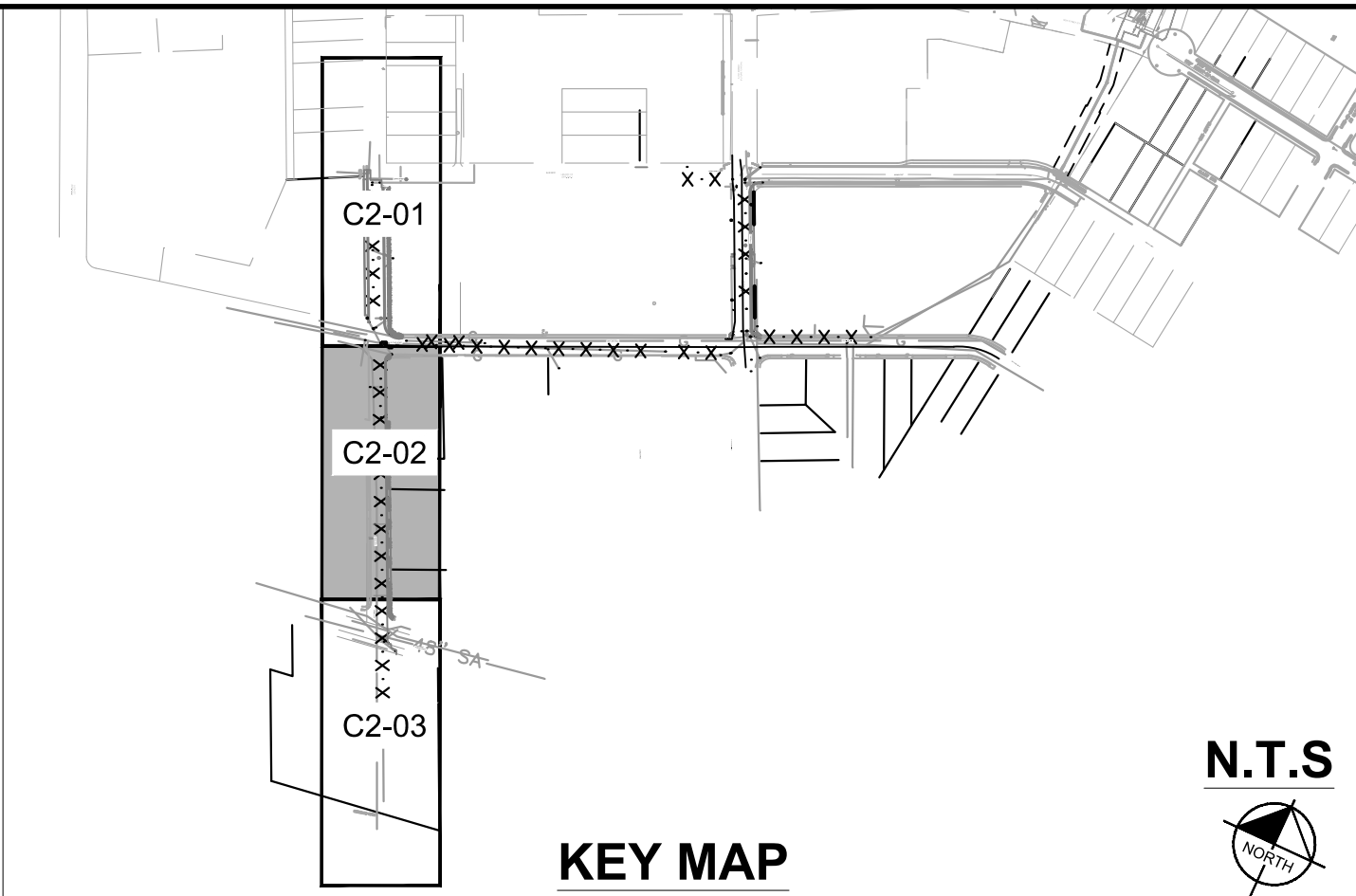
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MATCHLINE - S 6TH ST. STA 4 + 35 - SEE SHEET C2-01

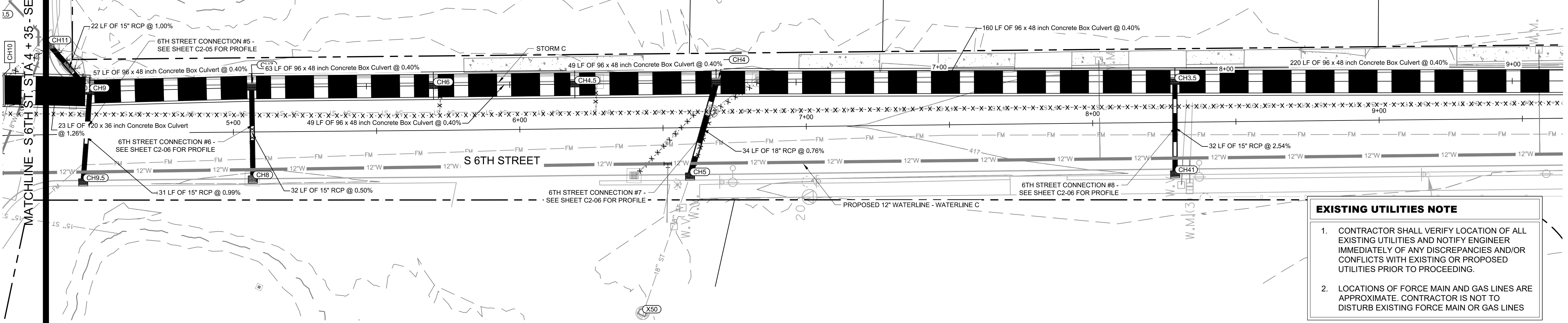
PIPE TABLE						
NAME	UPSTREAM	DOWNSTREAM	SIZE	LENGTH	SLOPE	MATERIAL
CH3.5 - CH2.5	406.04 (CH3.5)	405.16 (CH2.5)	96 X 48 INCH CONCRETE BOX CULVERT	220'	0.40%	REINFORCED CONCRETE PIPE
CH4 - CH3.5	406.68 (CH4)	406.04 (CH3.5)	96 X 48 INCH CONCRETE BOX CULVERT	161'	0.40%	REINFORCED CONCRETE PIPE
CH5 - CH4	407.86 (CH5)	407.60 (CH4)	18" RCP	34'	0.76%	RCP
CH6 - CH4.5	407.07 (CH6)	406.88 (CH4.5)	96 X 48 INCH CONCRETE BOX CULVERT	50'	0.40%	REINFORCED CONCRETE PIPE
CH7 - CH6	407.33 (CH7)	407.07 (CH6)	96 X 48 INCH CONCRETE BOX CULVERT	64'	0.40%	REINFORCED CONCRETE PIPE
CH8 - CH7	408.21 (CH8)	408.05 (CH7)	15" RCP	32'	0.50%	RCP
CH9 - CH7	407.55 (CH9)	407.33 (CH7)	96 X 48 INCH CONCRETE BOX CULVERT	57'	0.40%	REINFORCED CONCRETE PIPE
CH9.5 - CH9	409.00 (CH9.5)	408.69 (CH9)	15" RCP	32'	0.99%	RCP
CH10 - 133	408.00 (CH10)	407.70 (133)	120 X 36 INCH CONCRETE BOX CULVERT	24'	1.26%	REINFORCED CONCRETE PIPE
CH11 - CH9	410.36 (CH11)	410.14 (CH9)	15" RCP	23'	1.00%	RCP
CH41 - CH3.5	410.82 (CH41)	410.00 (CH3.5)	15" RCP	33'	2.54%	RCP

STRUCTURE TABLE		
NAME	DESCRIPTION	TOP GRATE
CH3.5	STACKOUT - DOUBLE GRATE	417.23
CH4	STACKOUT - SINGLE GRATE	416.55
CH5	METRO DR-105	416.36
CH6	STACKOUT - DOUBLE GRATE	416.30
CH7	STACKOUT - SINGLE GRATE	416.53
CH8	METRO DR-105	415.91
CH9	STACKOUT - DOUBLE GRATE	416.28
CH9.5	METRO DR-105	416.19
CH10	10' X 10' CONCRETE VAULT	417.34
CH11	METRO DR-105	416.84
CH41	METRO DR-105	417.21



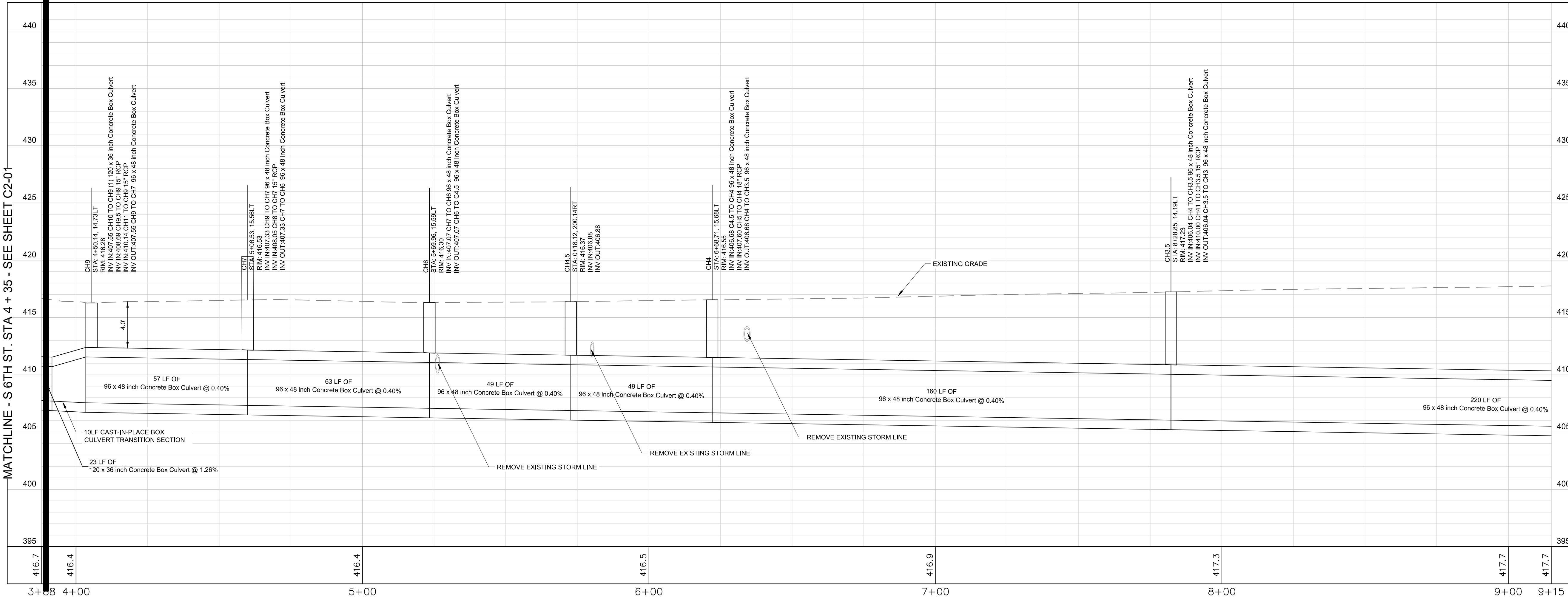
STORM NETWORK NAMING CONVENTIONS	
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CH#	PROPOSED CAYCE HOMES STRUCTURE/PIPE
B1-#	BOSCOBEL 1 DESIGNED STRUCTURE/PIPE
B2-#	BOSCOBEL 2 DESIGNED STRUCTURE/PIPE
B-#	BOSCOBEL 3 DESIGNED STRUCTURE/PIPE
E-#	EXPLORE! SCHOOL DESIGNED STRUCTURE/PIPE
R-#	RED OAKS TOWNHOMES DESIGNED STRUCTURE/PIPE
M-#	MARTHA O'BRYAN DESIGNED STRUCTURE/PIPE
X# AND EX-#	EXISTING STORM STRUCTURE/PIPE

LEGEND	
⊙ ⊙ ⊙ ⊙ ⊙ ⊙ ⊙ ⊙ ⊙ ⊙	UTILITY TO BE ABANDONED
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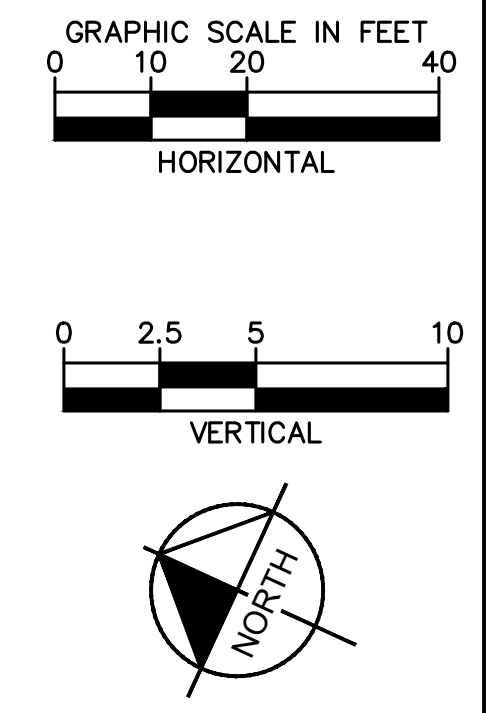


EXISTING UTILITIES NOTE

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MATCHLINE - S 6TH ST. STA 9 + 65 - SEE SHEET C2-03



NOTE: STRUCTURE STATION AND OFFSET DATA REFERRED TO CENTERLINE ALIGNMENT

BID SET

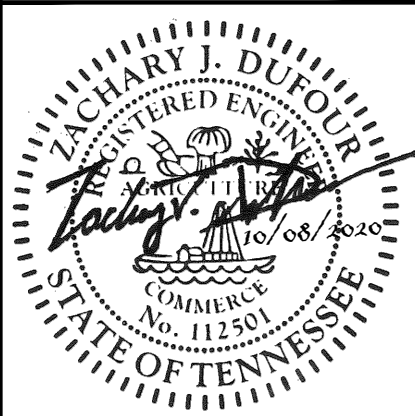
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CAYCE UTILITY PHASE 1A

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NASHVILLE, TN



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DESIGNED BY: KKF
DRAWN BY: LEB
CHECKED BY: ZJD
DATE: 10/08/2020
KIMLEY-HORN PROJECT NO. 118109016

STORM PLAN AND PROFILE

SHEET NUMBER
C2-02

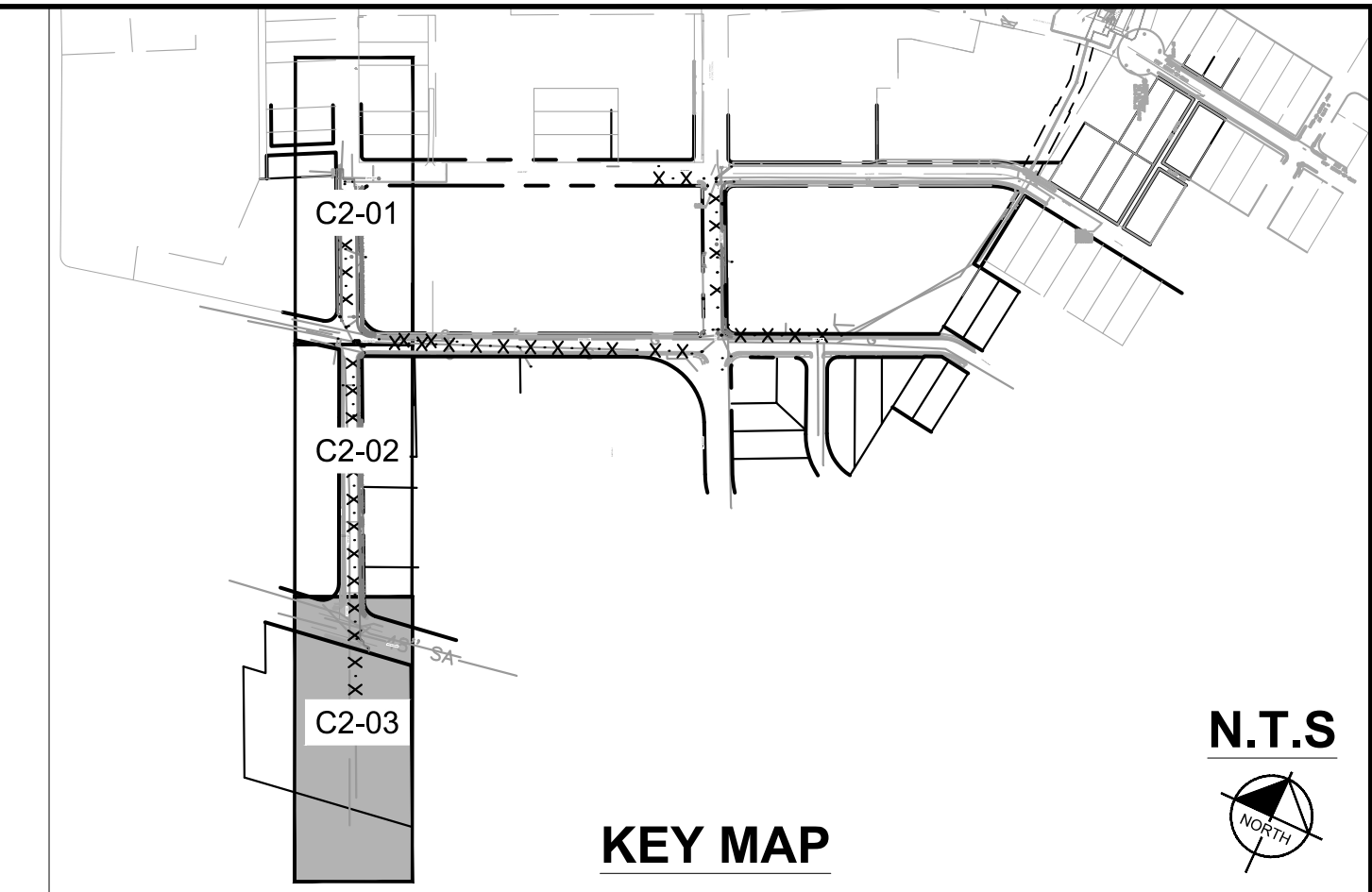
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MATCHLINE - S 6TH ST. STA 9 + 65 - SEE SHEET C2-02

MATCHLINE - S 6TH ST. STA 9 + 65 - SEE SHEET C2-02

PIPE TABLE						
NAME	UPSTREAM	DOWNSTREAM	SIZE	LENGTH	SLOPE	MATERIAL
CH1 - CH0	402.78 (CH1)	400.00 (CH0)	48" RCP*	170'	1.64%	RCP
CH1.5 - CH1	404.86 (CH1.5)	402.78 (CH1)	96 X 48 INCH CONCRETE BOX CULVERT*	146'	1.43%	REINFORCED CONCRETE PIPE
CH2 - CH1.5	404.97 (CH2)	404.86 (CH1.5)	96 X 48 INCH CONCRETE BOX CULVERT*	8'	1.43%	REINFORCED CONCRETE PIPE
CH2.5 - CH2	405.16 (CH2.5)	404.97 (CH2)	96 X 48 INCH CONCRETE BOX CULVERT*	14'	1.43%	REINFORCED CONCRETE PIPE
CH3.5 - CH2.5	406.04 (CH3.5)	405.16 (CH2.5)	96 X 48 INCH CONCRETE BOX CULVERT*	220'	0.40%	REINFORCED CONCRETE PIPE
X46 - CH1.5	413.83 (X46)	406.67 (CH1.5)	15" RCP*	22'	33.11%	RCP

STRUCTURE TABLE		
NAME	DESCRIPTION	TOP GRATE
CH0	HEADWALL	404.38
CH1	8' X 12' VAULT WITH MANHOLE ACCESS	418.59
CH1.5	DIRECT PIPE CONNECTION	409.98
CH2	BOX CULVERT ACCESS POINT - MANHOLE	417.73
CH2.5	DIRECT PIPE CONNECTION	410.28



KEY MAP



STORM NETWORK NAMING CONVENTIONS

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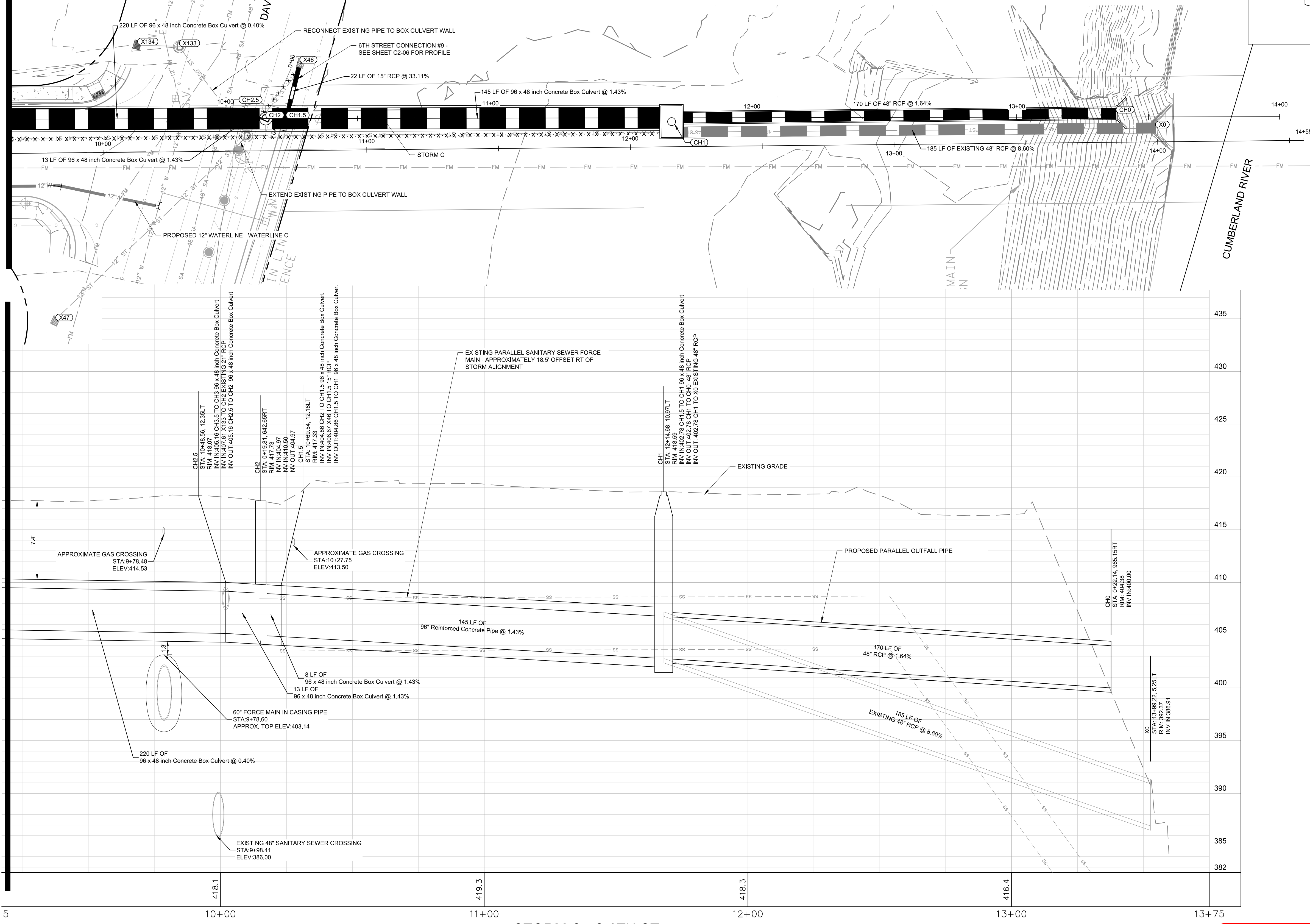
- CH# PROPOSED CAYCE HOMES STRUCTURE/PIPE
- B1-# BOSCOBEL 1 DESIGNED STRUCTURE/PIPE
- B2-# BOSCOBEL 2 DESIGNED STRUCTURE/PIPE
- B-# BOSCOBEL 3 DESIGNED STRUCTURE/PIPE
- E-# EXPLORE! SCHOOL DESIGNED STRUCTURE/PIPE
- R-# RED OAKS TOWNHOMES DESIGNED STRUCTURE/PIPE
- M-# MARTHA O'BRYAN DESIGNED STRUCTURE/PIPE
- X# AND EX-# EXISTING STORM STRUCTURE/PIPE

LEGEND

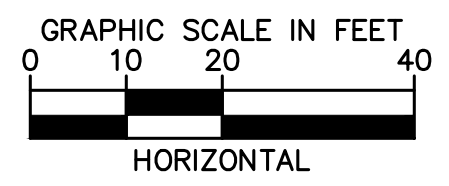
- UTILITY TO BE ABANDONED
- UTILITY TO BE REMOVED

EXISTING UTILITIES NOTE

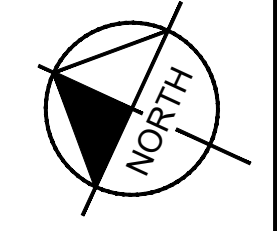
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STORM C - S 6TH ST

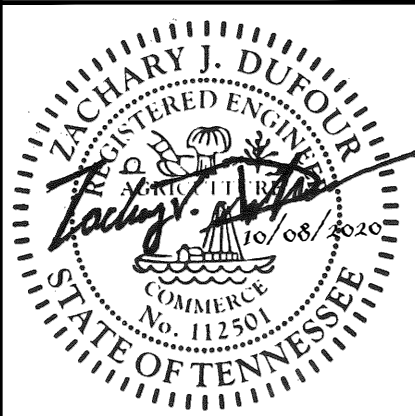


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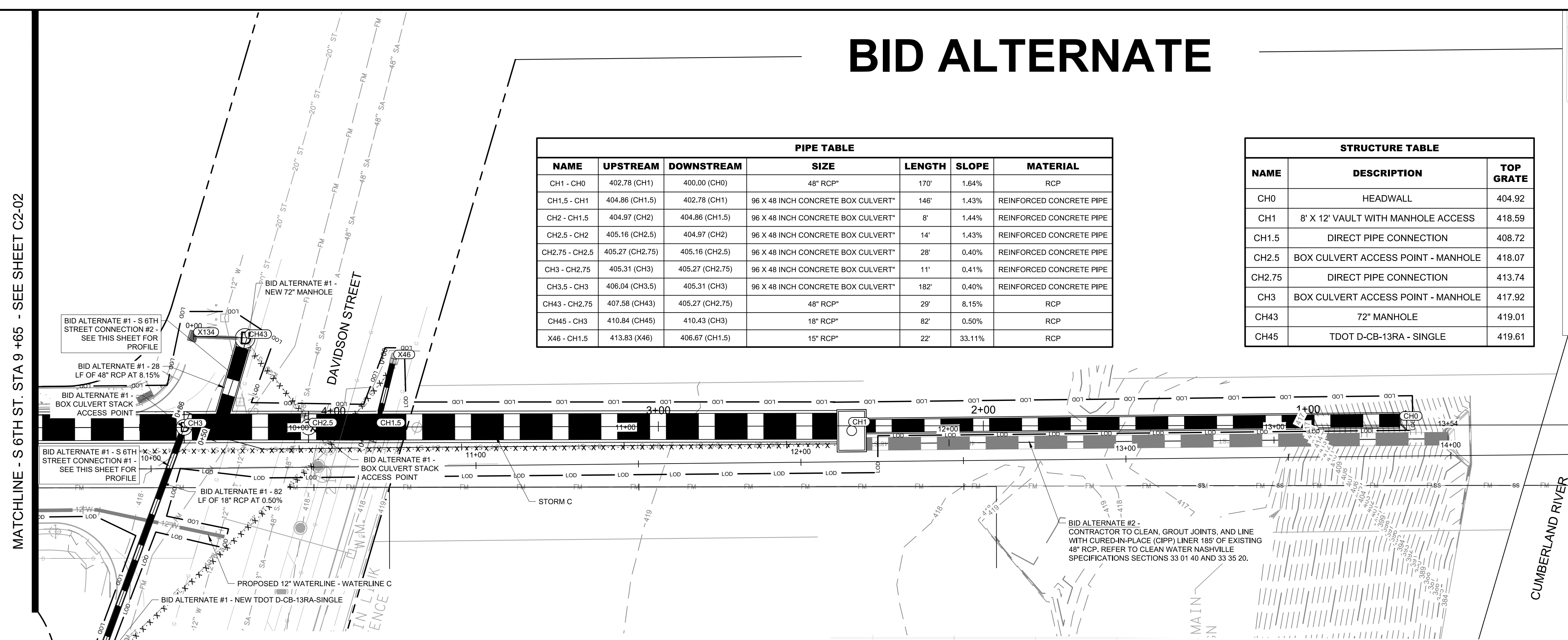


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DESIGNED BY: KKF
 DRAWN BY: LEB
 CHECKED BY: ZJD
 DATE: 10/08/2020
 KIMLEY-HORN PROJECT NO. 118109016
 STORM PLAN AND PROFILE
 SHEET NUMBER
C2-03

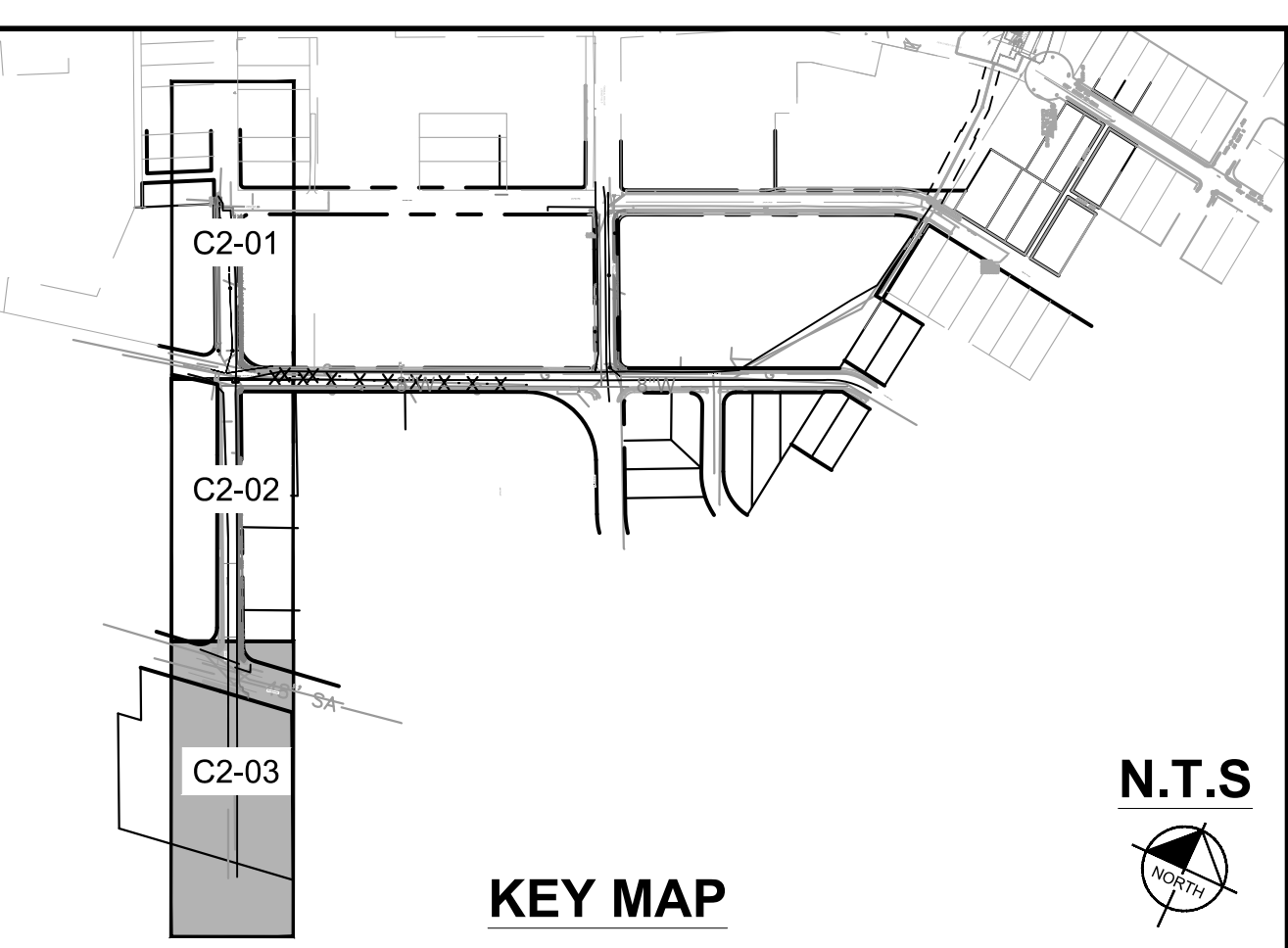
BID ALTERNATE

MATCHLINE - S 6TH ST. STA 9 +65 - SEE SHEET C2-02



PIPE TABLE						
NAME	UPSTREAM	DOWNSTREAM	SIZE	LENGTH	SLOPE	MATERIAL
CH1 - CH0	402.78 (CH1)	400.00 (CH0)	48" RCP	170'	1.64%	RCP
CH1.5 - CH1	404.86 (CH1.5)	402.78 (CH1)	96 X 48 INCH CONCRETE BOX CULVERT	146'	1.43%	REINFORCED CONCRETE PIPE
CH2 - CH1.5	404.97 (CH2)	404.86 (CH1.5)	96 X 48 INCH CONCRETE BOX CULVERT	8'	1.44%	REINFORCED CONCRETE PIPE
CH2.5 - CH2	405.16 (CH2.5)	404.97 (CH2)	96 X 48 INCH CONCRETE BOX CULVERT	14'	1.43%	REINFORCED CONCRETE PIPE
CH2.75 - CH2.5	405.27 (CH2.75)	405.16 (CH2.5)	96 X 48 INCH CONCRETE BOX CULVERT	28'	0.40%	REINFORCED CONCRETE PIPE
CH3 - CH2.75	405.31 (CH3)	405.27 (CH2.75)	96 X 48 INCH CONCRETE BOX CULVERT	11'	0.41%	REINFORCED CONCRETE PIPE
CH3.5 - CH3	406.04 (CH3.5)	405.31 (CH3)	96 X 48 INCH CONCRETE BOX CULVERT	182'	0.40%	REINFORCED CONCRETE PIPE
CH43 - CH2.75	407.58 (CH43)	405.27 (CH2.75)	48" RCP	29'	8.15%	RCP
CH45 - CH3	410.84 (CH45)	410.43 (CH3)	18" RCP	82'	0.50%	RCP
X46 - CH1.5	413.83 (X46)	406.67 (CH1.5)	15" RCP	22'	33.11%	RCP

STRUCTURE TABLE		
NAME	DESCRIPTION	TOP GRATE
CH0	HEADWALL	404.92
CH1	8' X 12' VAULT WITH MANHOLE ACCESS	418.59
CH1.5	DIRECT PIPE CONNECTION	408.72
CH2.5	BOX CULVERT ACCESS POINT - MANHOLE	418.07
CH2.75	DIRECT PIPE CONNECTION	413.74
CH3	BOX CULVERT ACCESS POINT - MANHOLE	417.92
CH43	72" MANHOLE	419.01
CH45	TDOT D-CB-13RA - SINGLE	419.61



STORM NETWORK NAMING CONVENTIONS

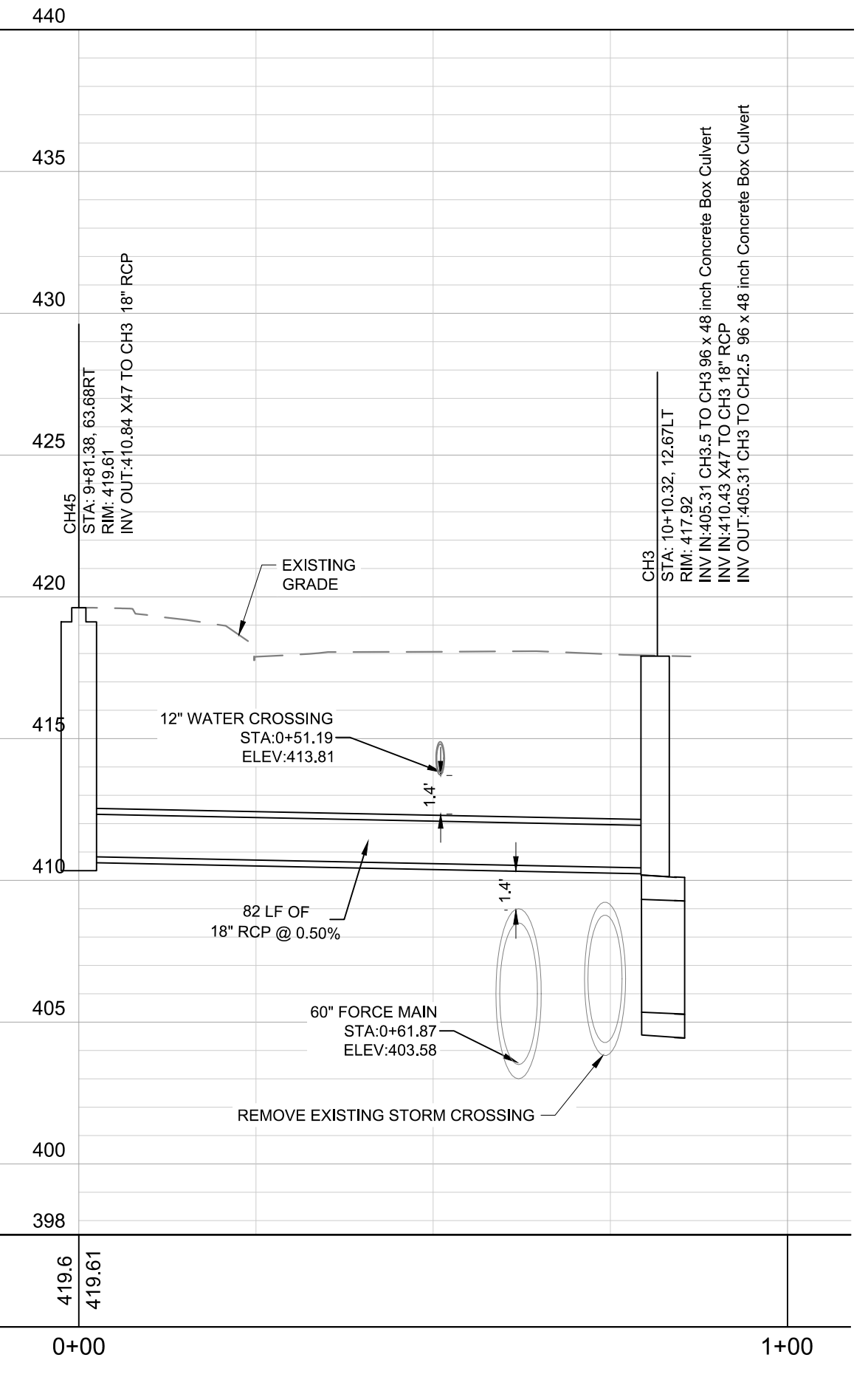
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- CH# - PROPOSED CAYCE HOMES STRUCTURE/PIPE
 - B1# - BOSCOBEL 1 DESIGNED STRUCTURE/PIPE
 - B2# - BOSCOBEL 2 DESIGNED STRUCTURE/PIPE
 - B# - BOSCOBEL 3 DESIGNED STRUCTURE/PIPE
 - E# - EXPLORE! SCHOOL DESIGNED STRUCTURE/PIPE
 - R# - RED OAKS TOWNHOMES DESIGNED STRUCTURE/PIPE
 - M# - MARTHA O'BRYAN DESIGNED STRUCTURE/PIPE
 - X# AND EX# - EXISTING STORM STRUCTURE/PIPE

EXISTING UTILITIES NOTE

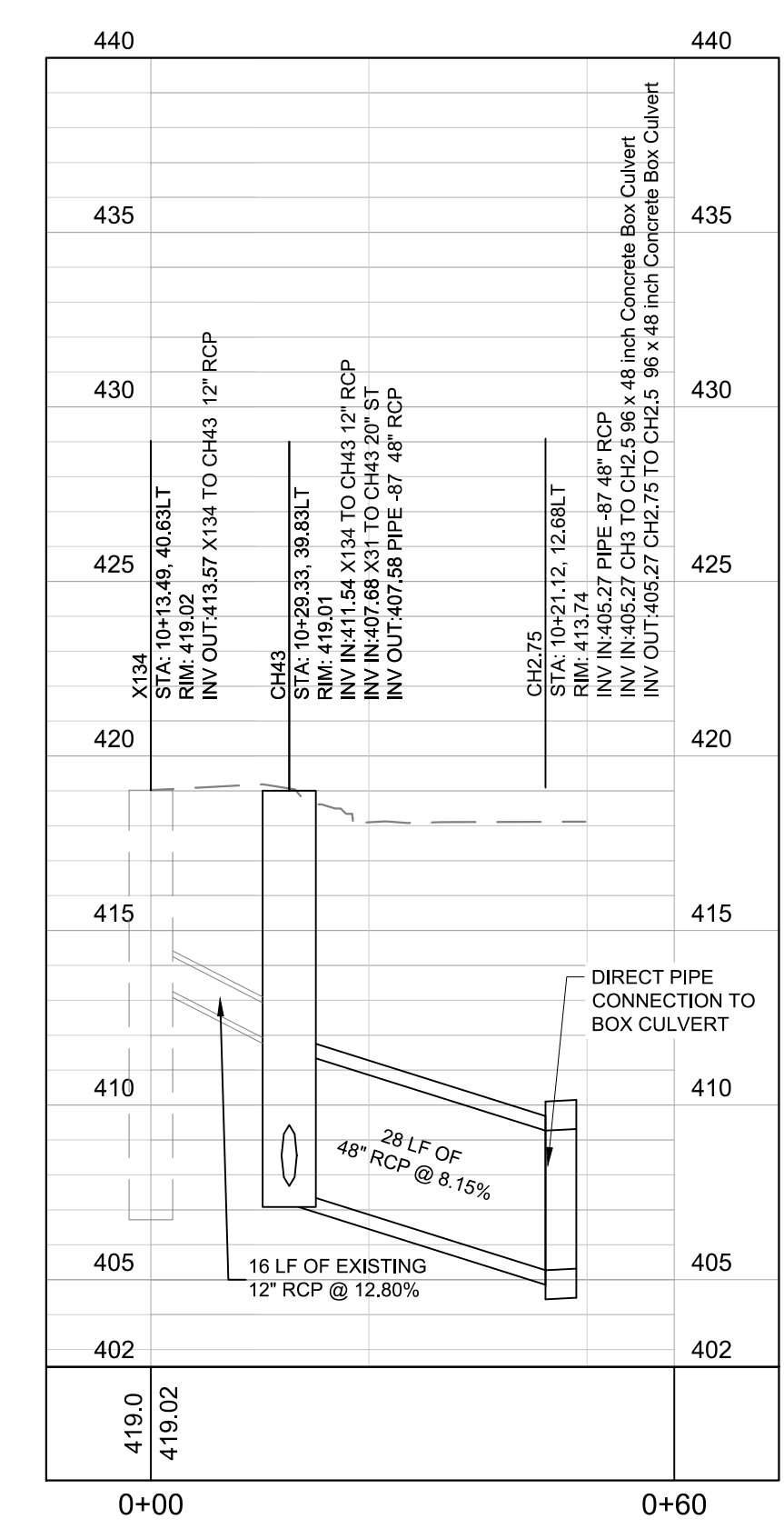
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LEGEND

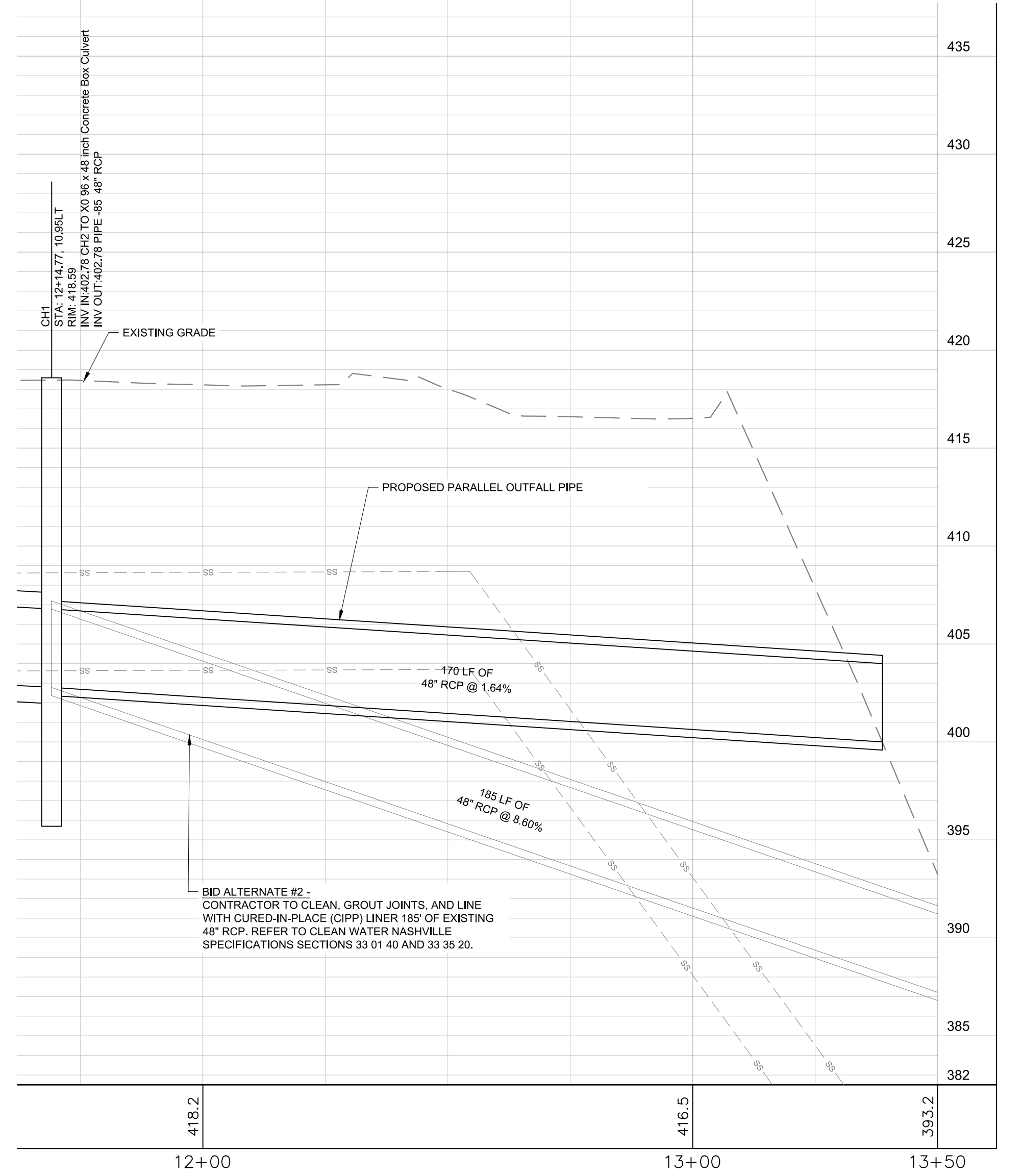
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- (Symbol: dashed line) - UTILITY TO BE REMOVED



S 6TH STREET BID ALTERNATE CONNECTION 1

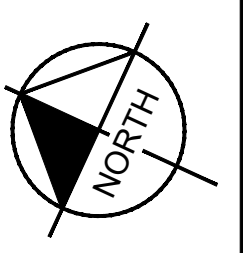
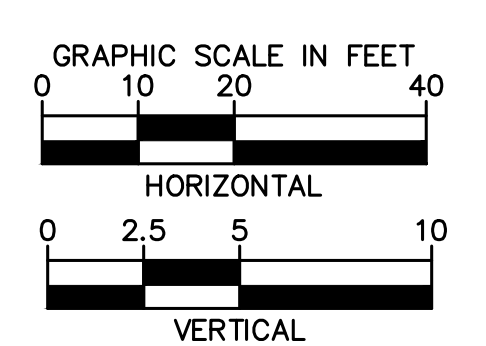


S 6TH STREET BID ALTERNATE CONNECTION 2



NOTE: STRUCTURE STATION AND OFFSET DATA REFERENCED TO CENTERLINE ALIGNMENT

BID SET



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CAYCE UTILITY PHASE 1A

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NASHVILLE, TN



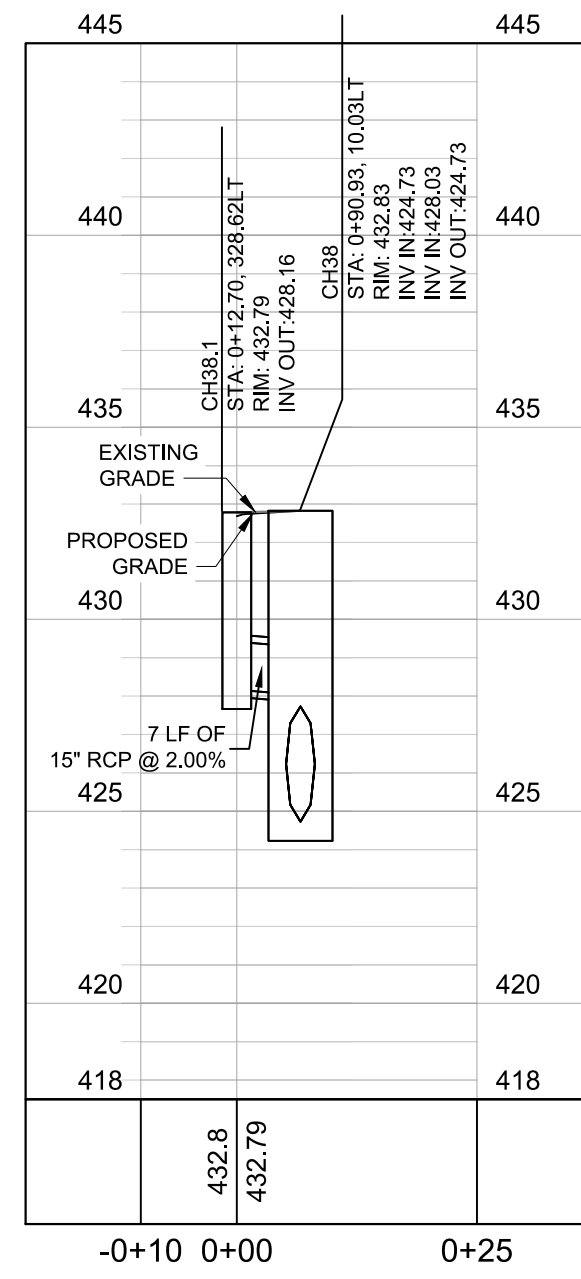
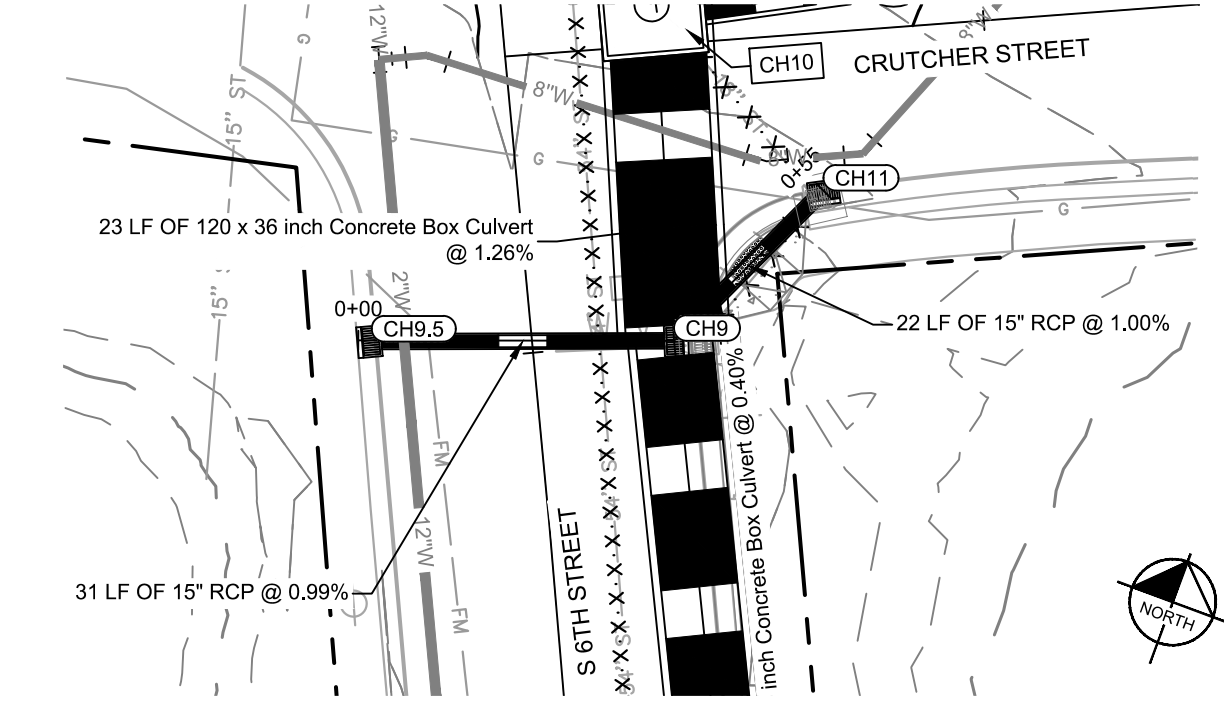
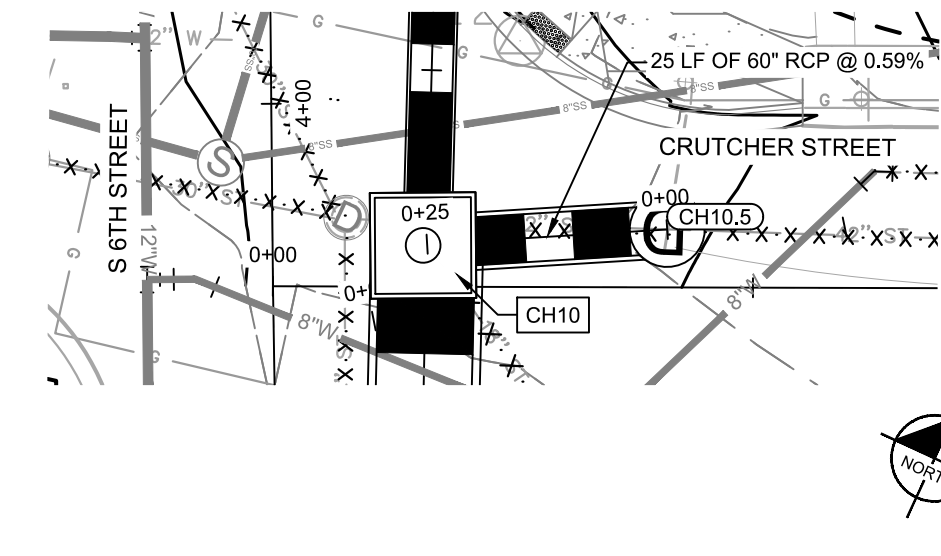
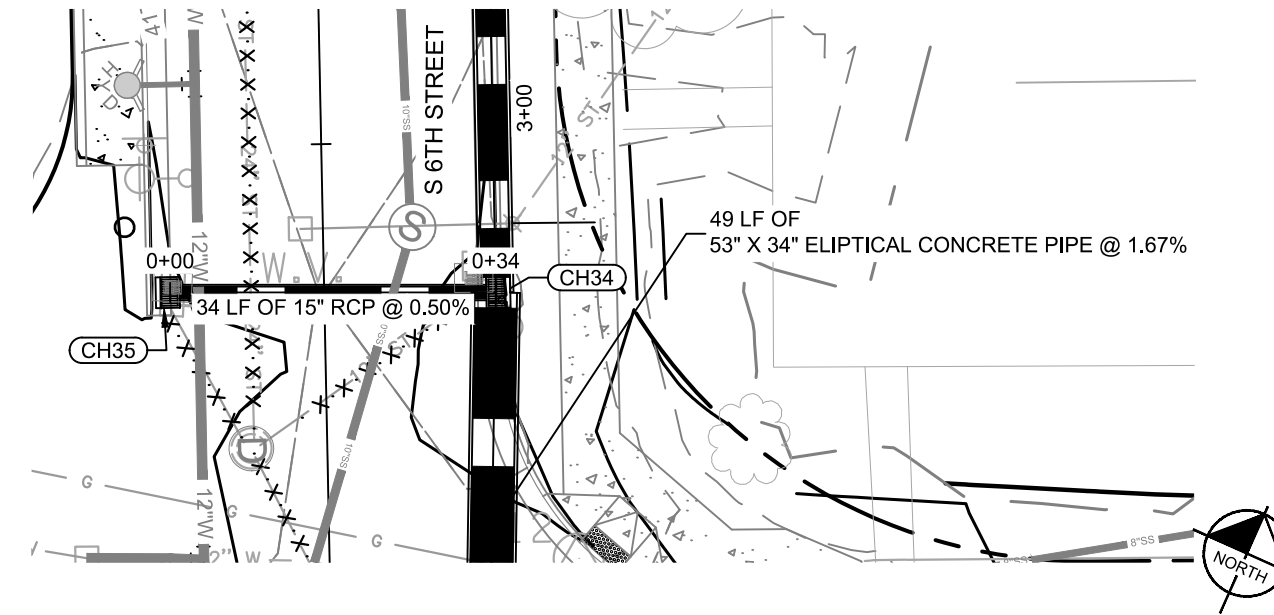
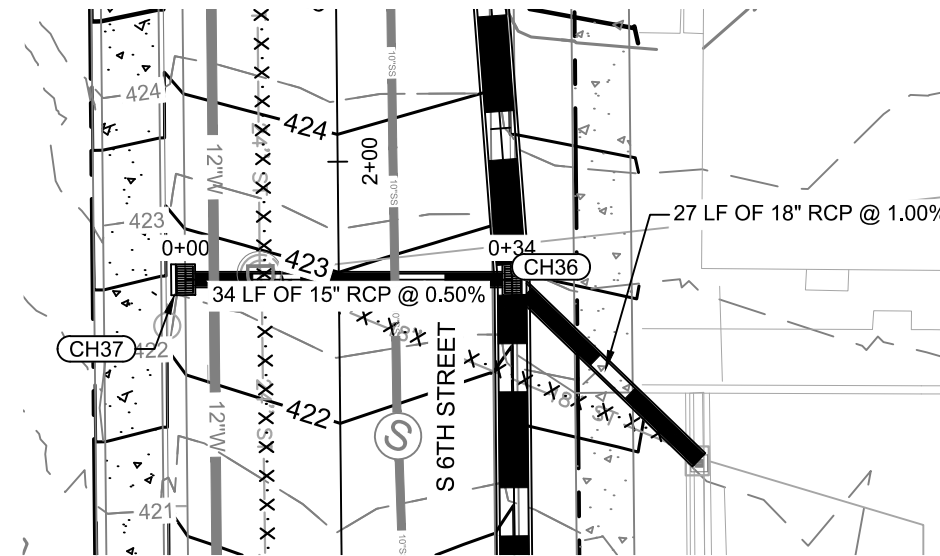
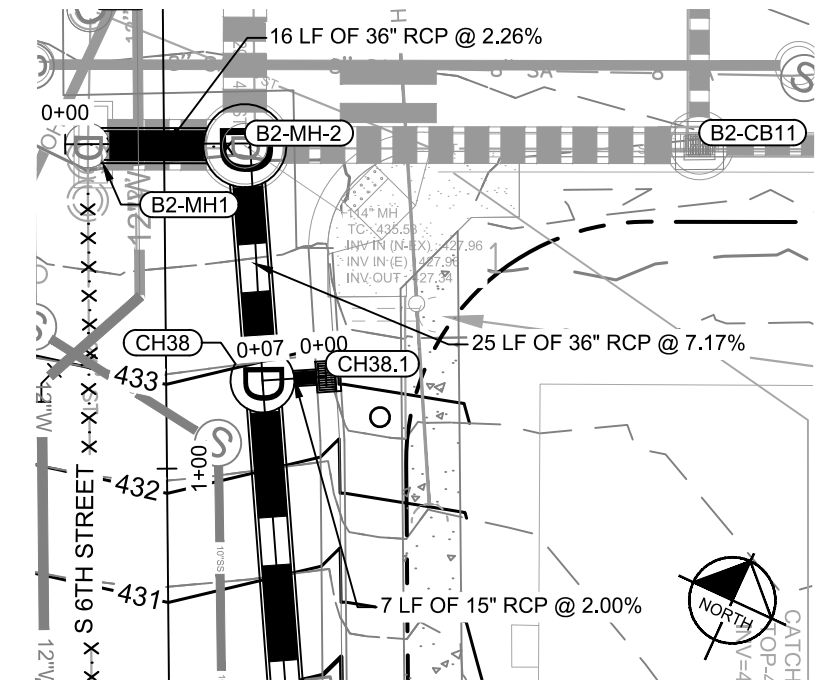
No.	DATE	BY

DESIGNED BY:	KKF
DRAWN BY:	LEB
CHECKED BY:	ZJD
DATE:	10/08/2020
KIMLEY-HORN PROJECT NO.	118109016

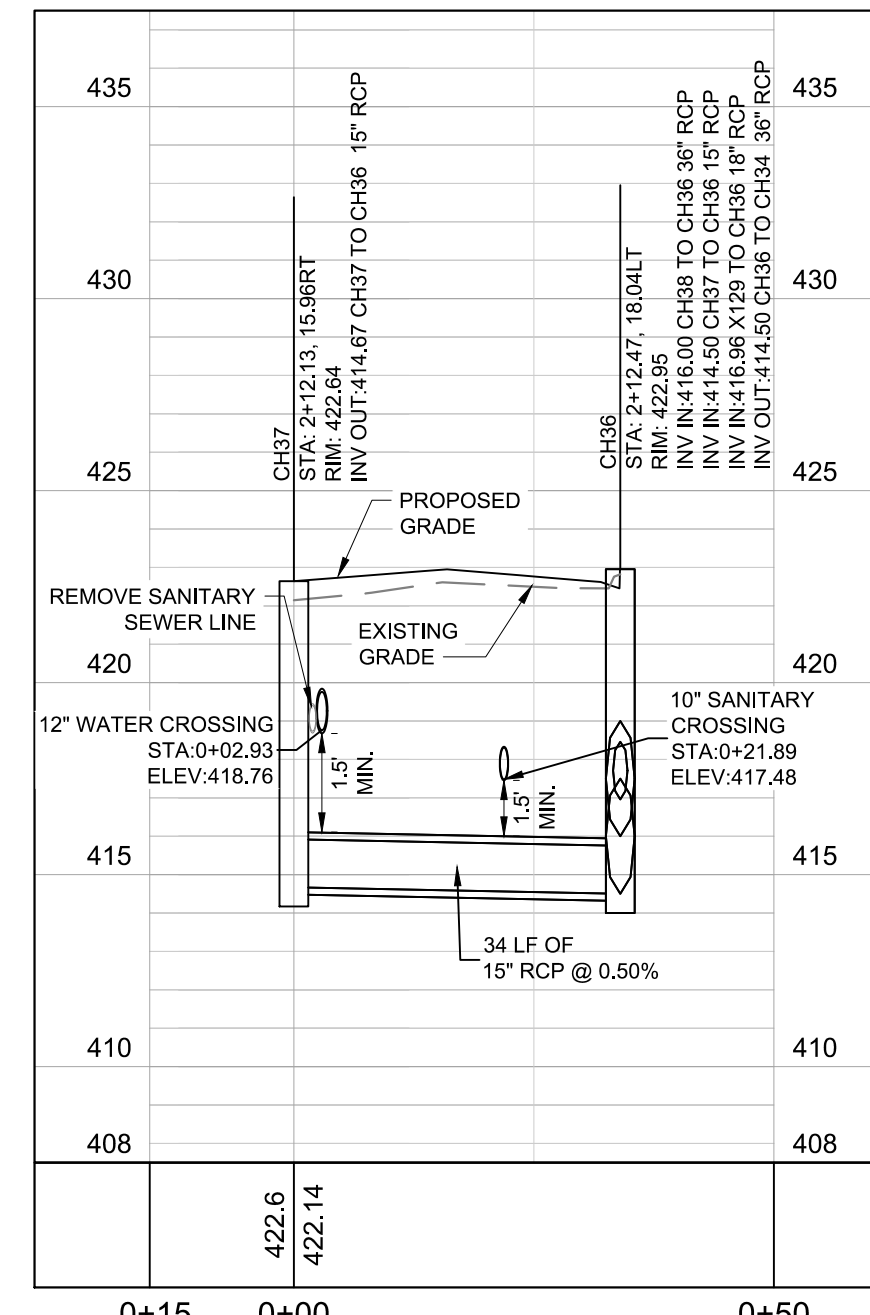
STORM PLAN AND PROFILE - BID ALTERNATE
SHEET NUMBER
C2-04

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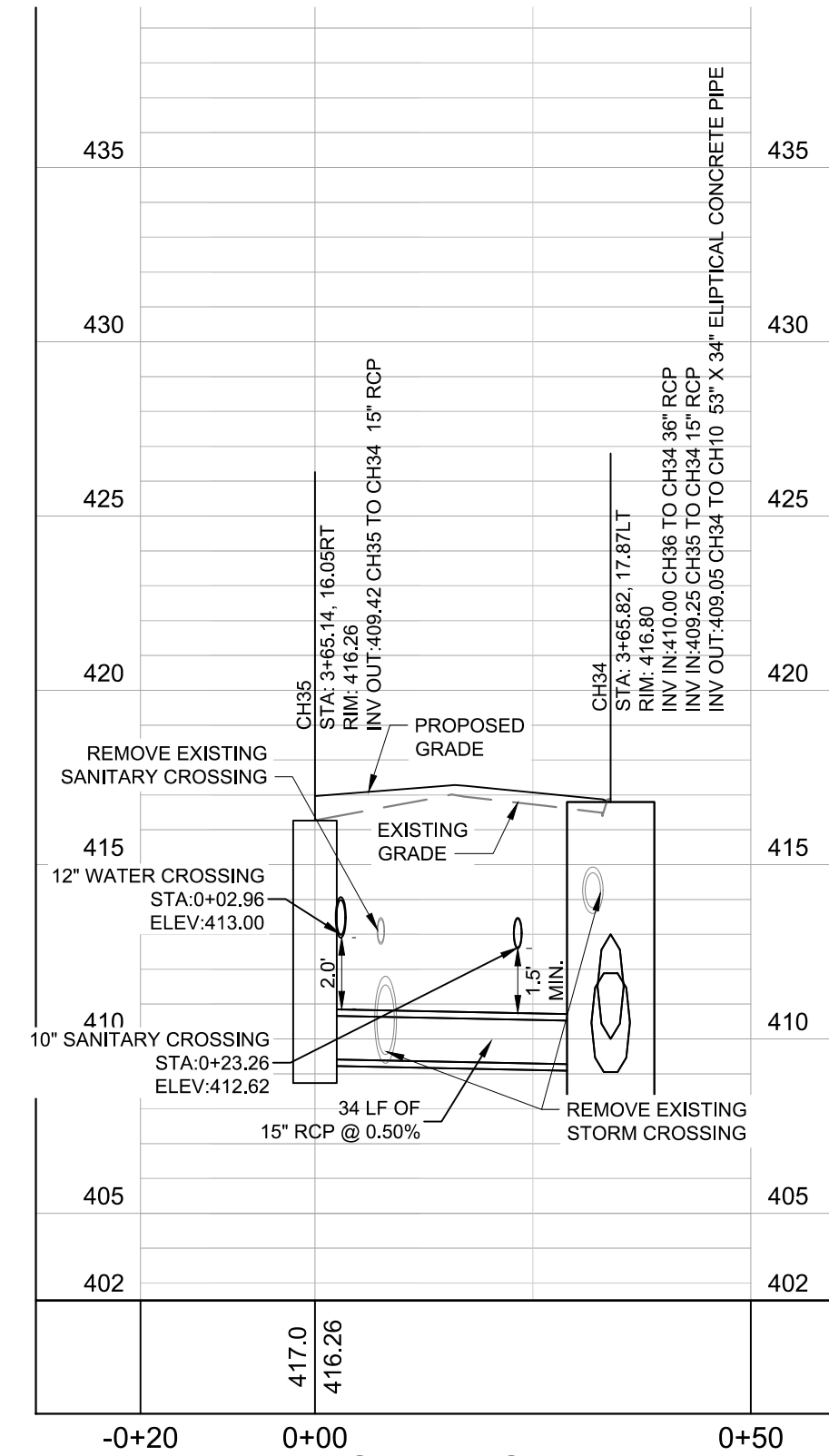
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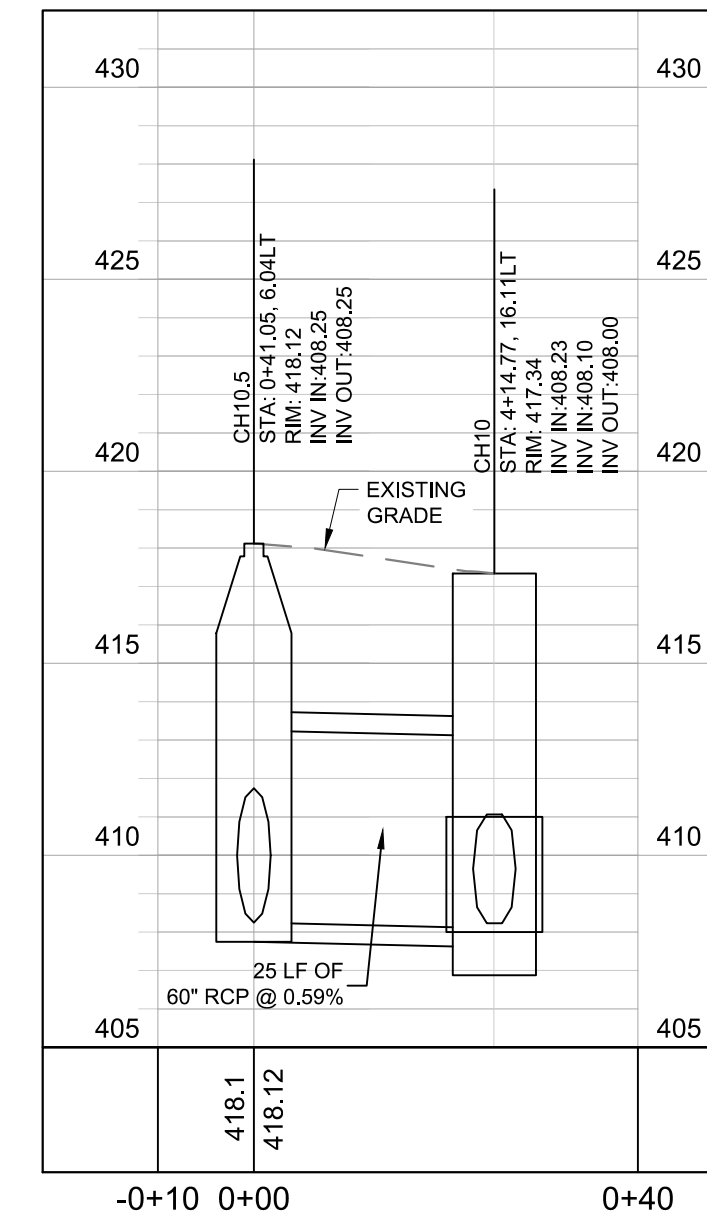
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CONNECTION 1
SEE SHEET C2-01



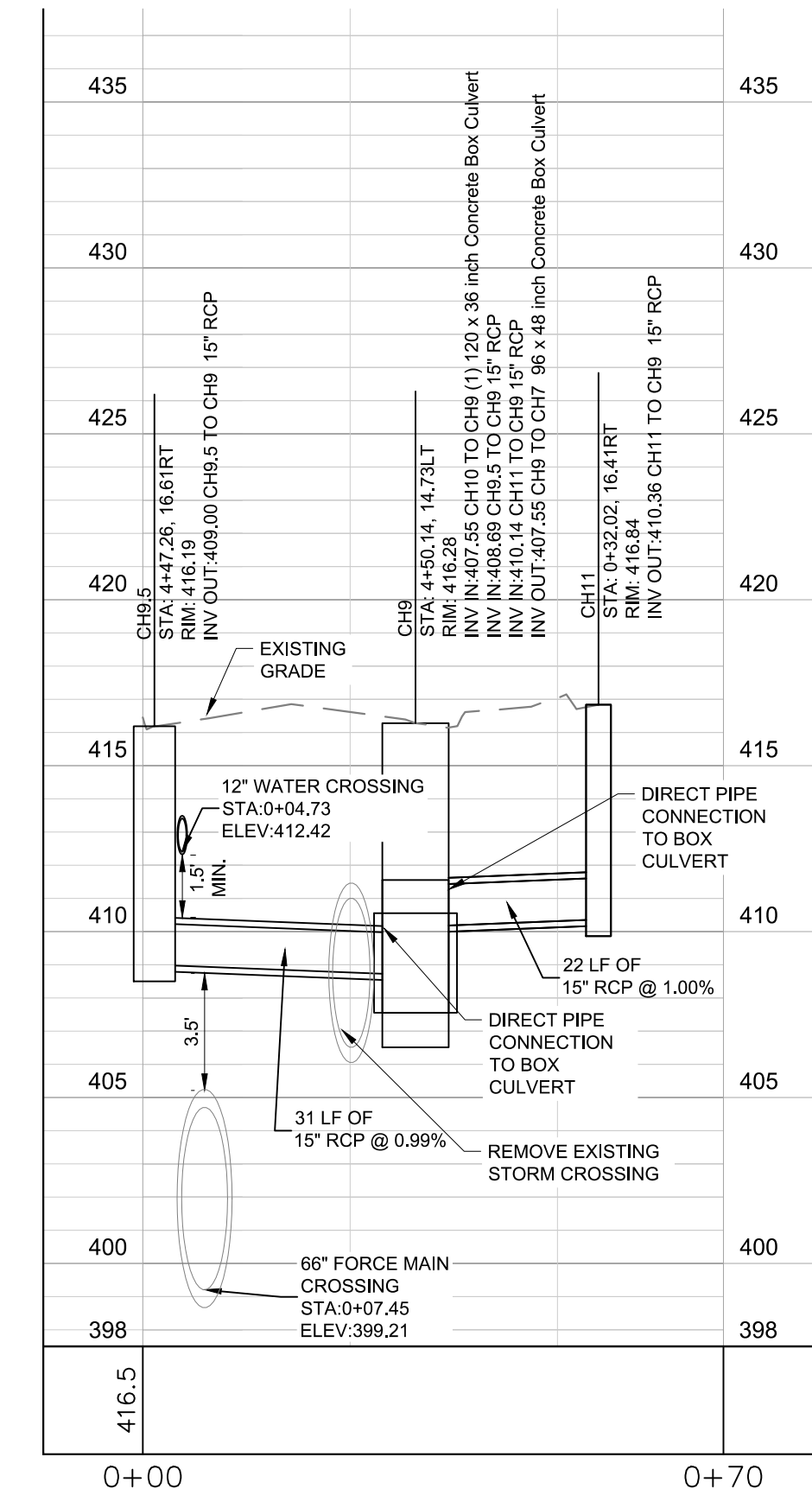
S 6TH ST -
CONNECTION 2
SEE SHEET C2-01



S 6TH ST -
CONNECTION 3
SEE SHEET C2-01



S 6TH ST -
CONNECTION 4
SEE SHEET C2-01



S 6TH ST -
CONNECTION 5
SEE SHEET C2-02

NOTE: STRUCTURE STATION AND OFFSET DATA REFERENCED TO CENTERLINE ALIGNMENT

EXISTING UTILITIES NOTE

- CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES AND/OR CONFLICTS WITH EXISTING OR PROPOSED UTILITIES PRIOR TO PROCEEDING.
- LOCATIONS OF FORCE MAIN AND GAS LINES ARE APPROXIMATE. CONTRACTOR IS NOT TO DISTURB EXISTING FORCE MAIN OR GAS LINES

LEGEND

- UTILITY TO BE ABANDONED
- UTILITY TO BE REMOVED

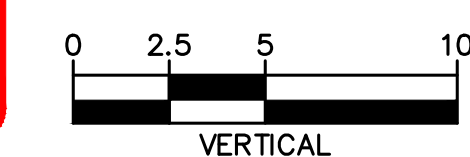
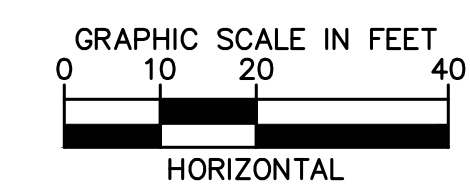
STORM NETWORK NAMING CONVENTIONS

THE FOLLOWING NAMING CONVENTIONS APPLY TO THE STORM NETWORK TO DIFFERENTIATE BETWEEN EXISTING, DESIGNED AND PROPOSED FOR THIS PROJECT. ANY PIPE CONTAINING "CH" IS PROPOSED FOR THE CAYCE PHASE 1

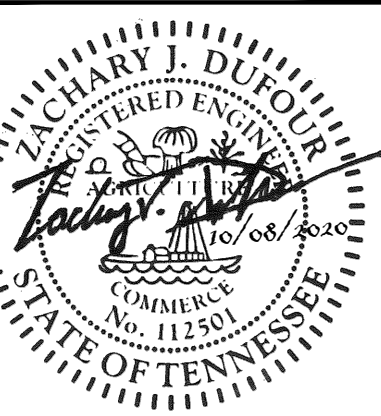
CH#	PROPOSED CAYCE HOMES STRUCTURE/PIPE
B1-#	BOSCOBEL 1 DESIGNED STRUCTURE/PIPE
B2-#	BOSCOBEL 2 DESIGNED STRUCTURE/PIPE
B-#	BOSCOBEL 3 DESIGNED STRUCTURE/PIPE
E-#	EXPLORE! SCHOOL DESIGNED STRUCTURE/PIPE
R-#	RED OAKS TOWNHOMES DESIGNED STRUCTURE/PIPE
M-#	MARTHA O'BRYAN DESIGNED STRUCTURE/PIPE
X# AND EX-#	EXISTING STORM STRUCTURE/PIPE

NAME	UPSTREAM	DOWNSTREAM	SIZE	LENGTH	SLOPE	MATERIAL
CH9.5 - CH9	409.00 (CH9.5)	408.89 (CH9)	15" RCP	32'	0.99%	RCP
CH10.5 - CH10	408.25 (CH10.5)	408.10 (CH10)	60" RCP	26'	0.59%	RCP
CH11 - CH9	410.36 (CH11)	410.14 (CH9)	15" RCP	23'	1.00%	RCP
CH35 - CH34	409.42 (CH35)	409.25 (CH34)	15" RCP	34'	0.50%	RCP
CH37 - CH36	414.87 (CH37)	414.50 (CH36)	15" RCP	35'	0.50%	RCP
CH38.1 - CH38	428.16 (CH38.1)	428.03 (CH38)	15" RCP	7'	2.00%	RCP

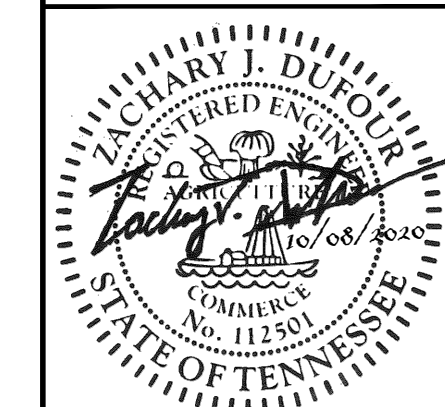
NAME	DESCRIPTION	TOP GRATE
CH9	STACKOUT - DOUBLE GRATE	416.28
CH9.5	METRO DR-105	416.19
CH10	10' X 10' CONCRETE VAULT	417.34
CH10.5	84" MH	418.12
CH34	84" TDOT D-CB-12RC - DOUBLE	416.80
CH35	METRO DR-105	416.26
CH36	84" TDOT D-CB-12RC - SINGLE	422.95
CH37	METRO DR-105	422.64
CH38	60" MANHOLE	432.83
CH38.1	METRO DR-110	432.79



BID SET

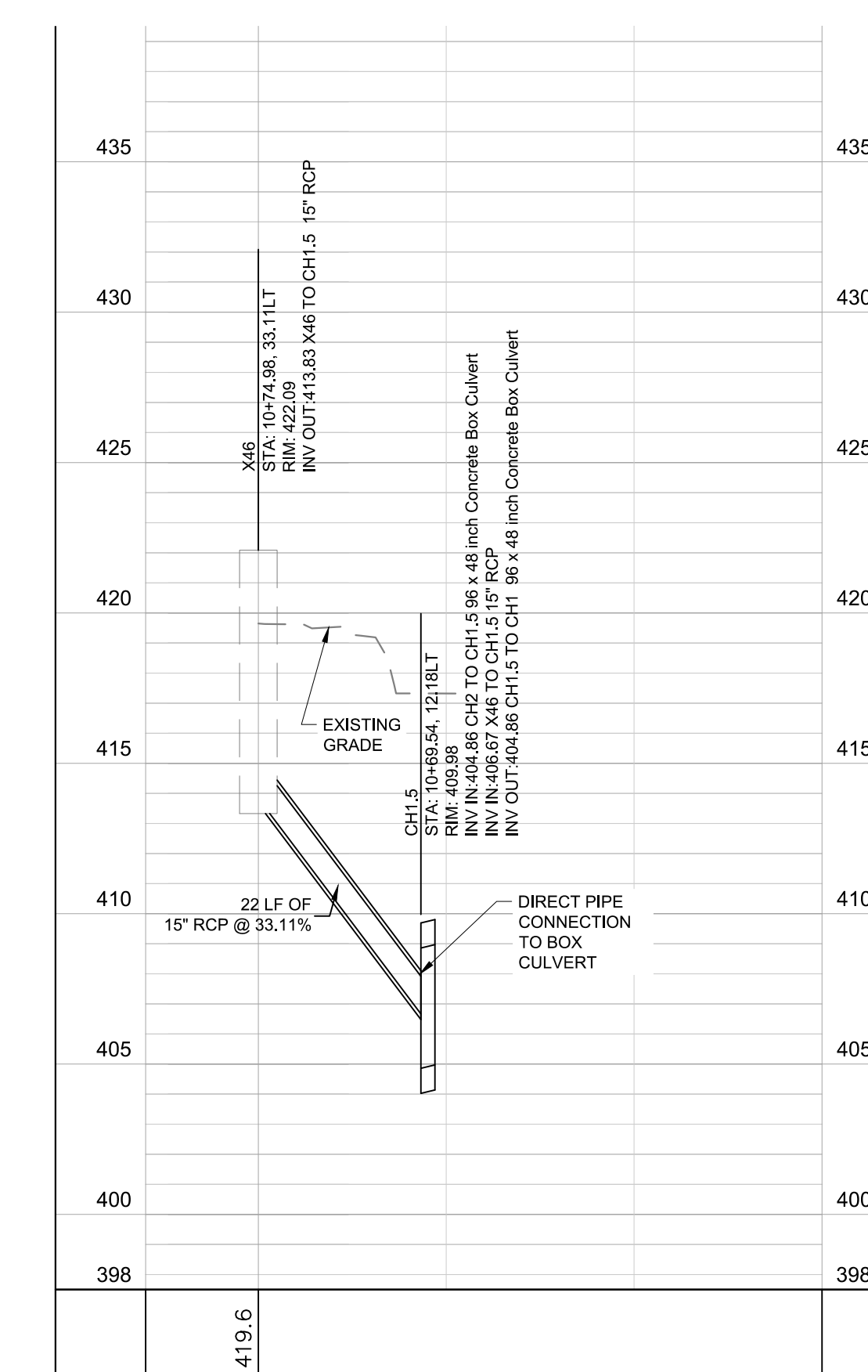
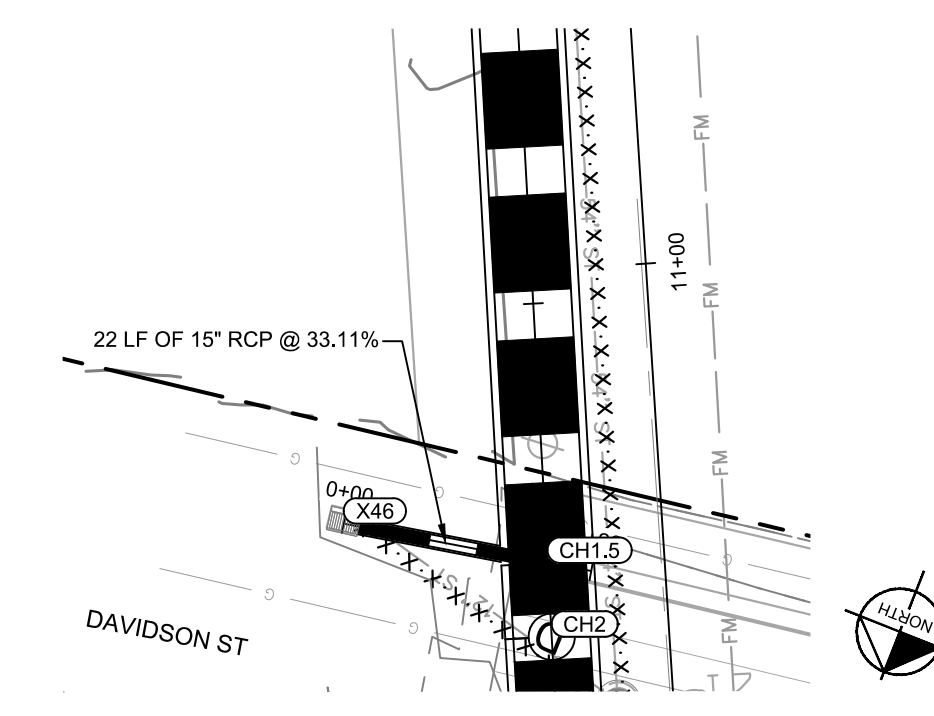


BY	
DATE	
REVISIONS	
No.	1 2 3 4 5 6 7 8 9 10
DESIGNED BY:	KKF
DRAWN BY:	LEB
CHECKED BY:	ZJD
DATE:	10/08/2020
KIMLEY-HORN PROJECT NO.	118109016
STORM PLAN AND PROFILE S - 6TH ST CONNECTIONS	
SHEET NUMBER	C2-05

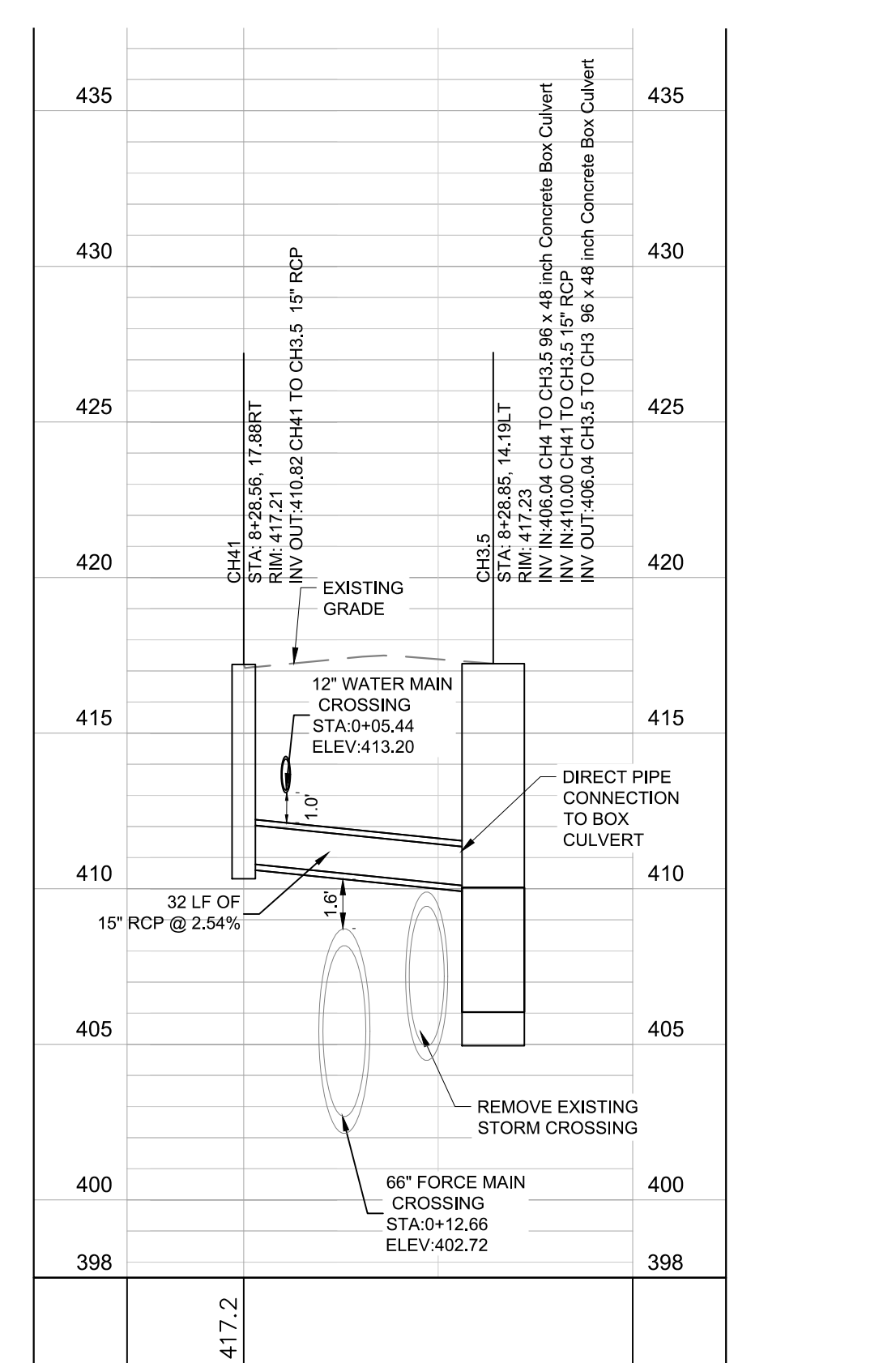
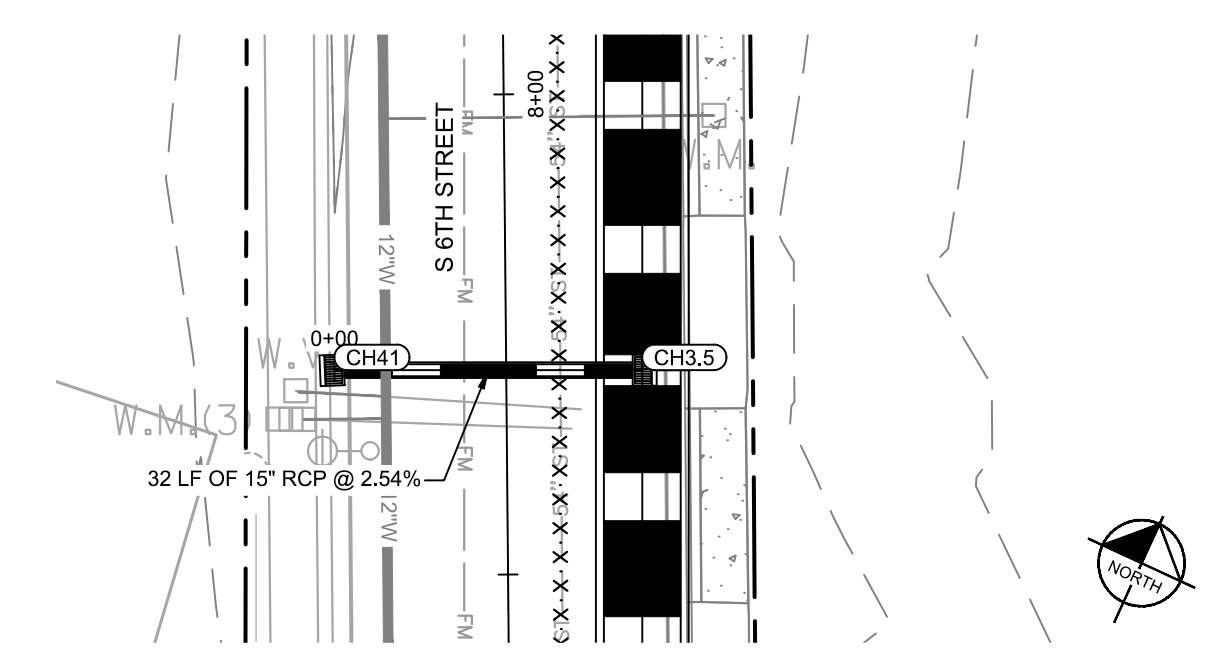


REVISIONS									
DATE									
BY									

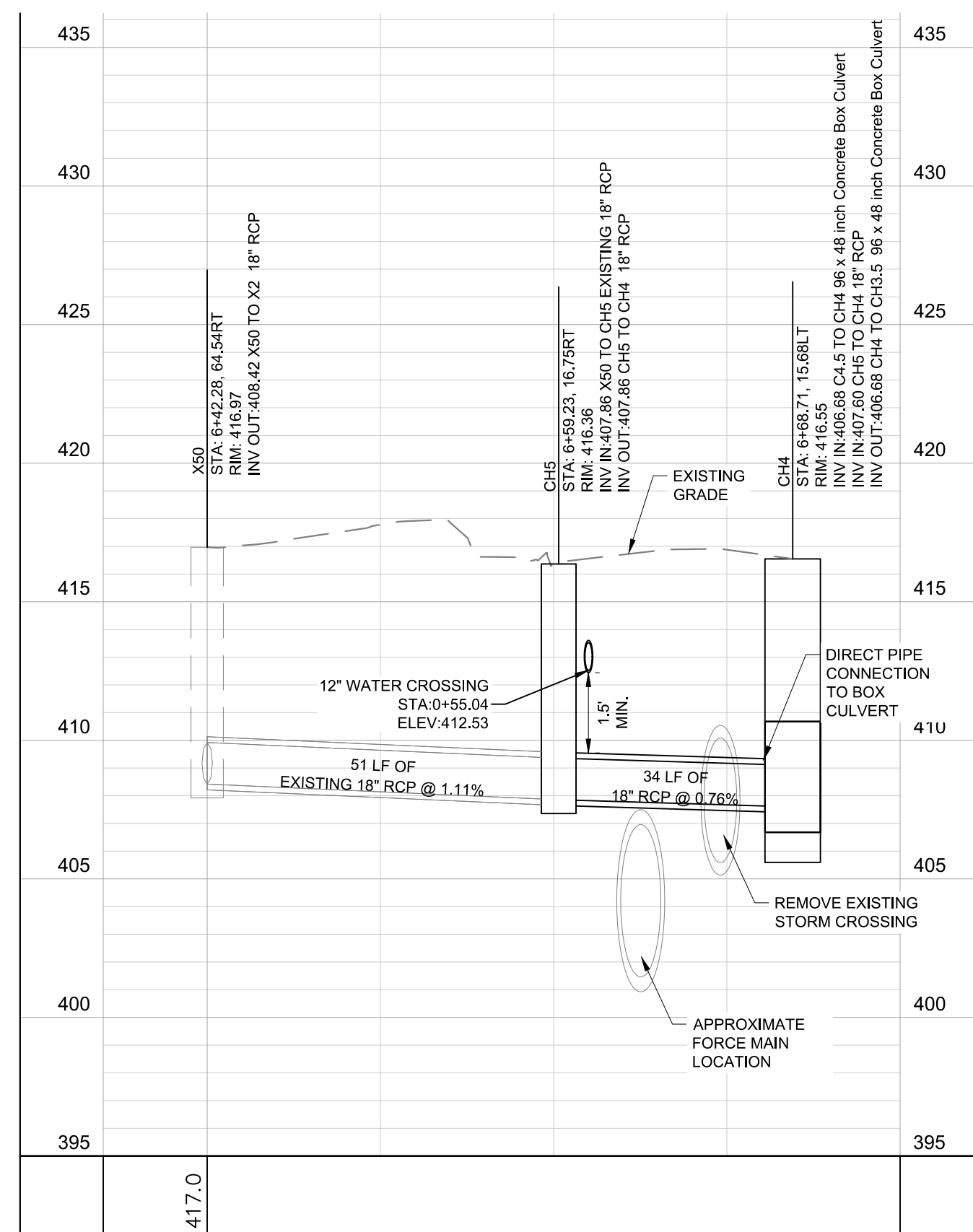
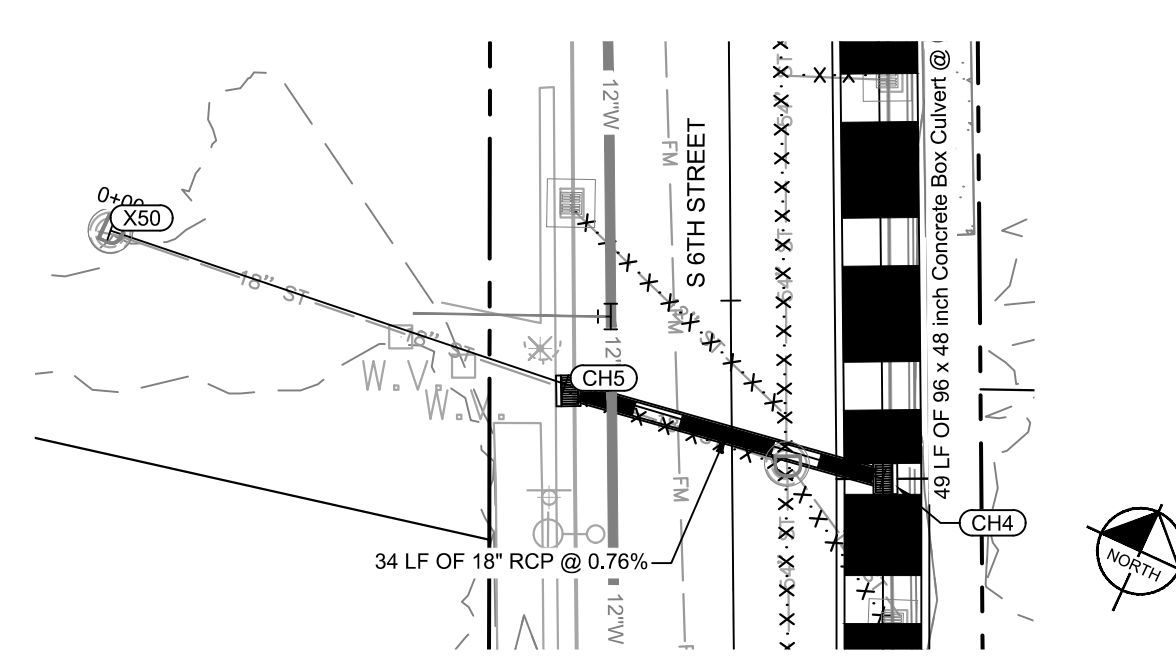
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DRAWN BY:	LEB
CHECKED BY:	ZJD
DATE:	10/08/2020
KIMLEY-HORN PROJECT NO. 118109016	
STORM PLAN AND PROFILE S - 6TH ST CONNECTIONS	
SHEET NUMBER	C2-06



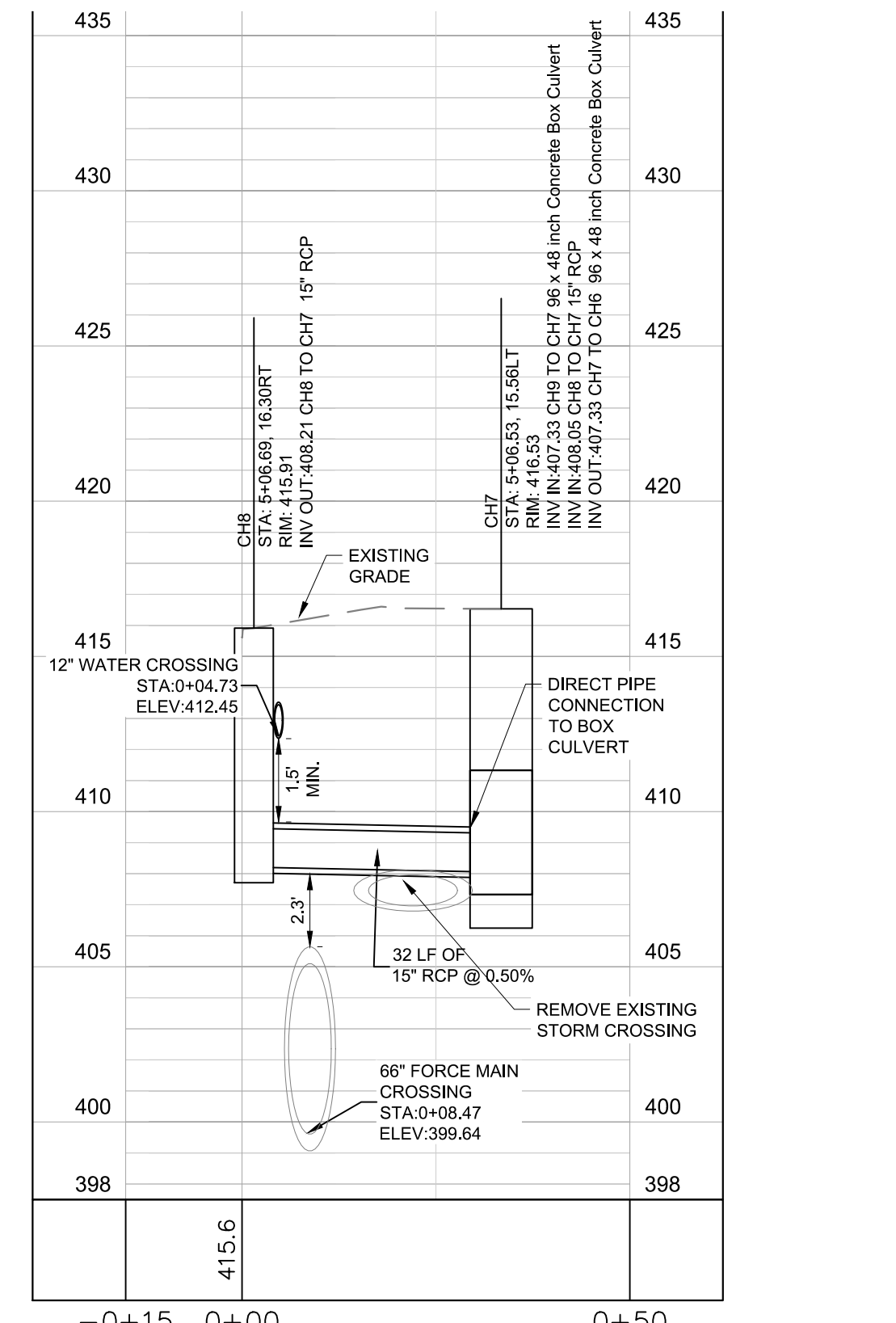
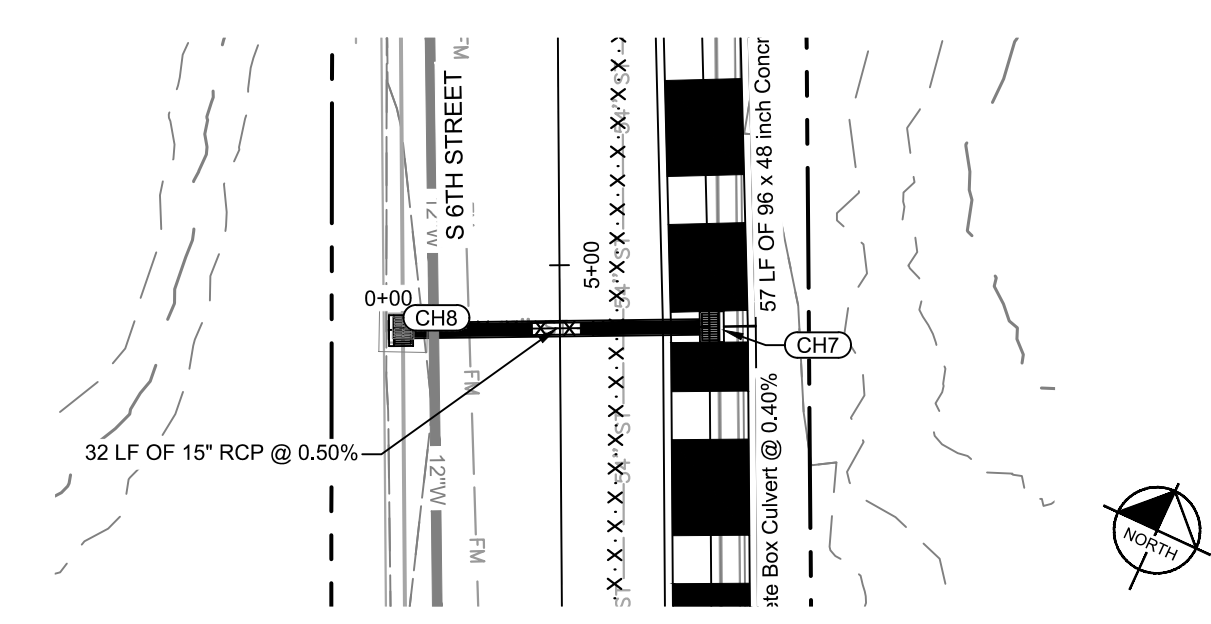
S 6TH ST - CONNECTION 9
SEE SHEET C2-03



S 6TH ST - CONNECTION 8
SEE SHEET C2-02



S 6TH ST - CONNECTION 7
SEE SHEET C2-02



S 6TH ST - CONNECTION 6
SEE SHEET C2-02

POTENTIAL CONFLICT NOTE
CONTRACTOR SHALL VERIFY FORCE MAIN ELEVATION BETWEEN PROPOSED PIPES CH4 AND CH5 PRIOR TO BEGINNING WORK AND NOTIFY ENGINEER IMMEDIATELY IF PROPOSED STORM PIPE CANNOT BE REPLACED IN THE SAME LOCATION AS EXISTING STORM PIPE. REPLACE PIPE PER PLANS.

NOTE: STRUCTURE STATION AND OFFSET DATA REFERENCED TO CENTERLINE ALIGNMENT

LEGEND

(Symbol: circle with dot)	UTILITY TO BE ABANDONED
(Symbol: circle with X)	UTILITY TO BE REMOVED

STORM NETWORK NAMING CONVENTIONS

CH#	PROPOSED CAYCE HOMES STRUCTURE/PIPE
B1-#	BOSCOBEL 1 DESIGNED STRUCTURE/PIPE
B2-#	BOSCOBEL 2 DESIGNED STRUCTURE/PIPE
B-#	BOSCOBEL 3 DESIGNED STRUCTURE/PIPE
E-#	EXPLORE! SCHOOL DESIGNED STRUCTURE/PIPE
R-#	RED OAKS TOWNHOMES DESIGNED STRUCTURE/PIPE
M-#	MARTHA O'BRYAN DESIGNED STRUCTURE/PIPE
X# AND EX-#	EXISTING STORM STRUCTURE/PIPE

EXISTING UTILITIES NOTE

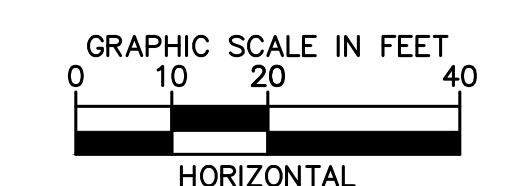
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- LOCATIONS OF FORCE MAIN AND GAS LINES ARE APPROXIMATE. CONTRACTOR IS NOT TO DISTURB EXISTING FORCE MAIN OR GAS LINES

PIPE TABLE

NAME	UPSTREAM	DOWNSTREAM	SIZE	LENGTH	SLOPE	MATERIAL
CH5 - CH4	407.86 (CH5)	407.60 (CH4)	18" RCP*	34'	0.76%	RCP
CH8 - CH7	408.21 (CH8)	408.05 (CH7)	15" RCP*	32'	0.50%	RCP
CH41 - CH3.5	410.82 (CH41)	410.00 (CH3.5)	15" RCP*	33'	2.54%	RCP
X46 - CH1.5	413.83 (X46)	406.67 (CH1.5)	15" RCP*	22'	33.11%	RCP
X47 - CH2	413.04 (X47)	410.50 (CH2)	EXISTING 12" RCP*	111'	2.30%	RCP
X133 - CH2.5	407.68 (X133)	407.61 (CH2.5)	EXISTING 21" RCP*	34'	0.21%	RCP
X133 - X134	407.87 (X133)	407.72 (X134)	18" RCP*	16'	1.00%	RCP

STRUCTURE TABLE

NAME	DESCRIPTION	TOP GRADE
CH1.5	DIRECT PIPE CONNECTION	409.98
CH2.5	DIRECT PIPE CONNECTION	410.28
CH3.5	STACKOUT - DOUBLE GRATE	417.23
CH4	STACKOUT - SINGLE GRATE	416.55
CH5	METRO DR-105	416.36
CH7	STACKOUT - SINGLE GRATE	416.53
CH8	METRO DR-105	415.91
CH41	METRO DR-105	417.21
X133	EXISTING MANHOLE	419.01
X134	EXISTING COMBINATION INLET	419.02



BID SET

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PIPE TABLE						
NAME	UPSTREAM	DOWNSTREAM	SIZE	LENGTH	SLOPE	MATERIAL
B2-MH-2 - CH38	426.49 (B2-MH-2)	424.73 (CH38)	36" RCP*	25'	7.17%	RCP
B2-MH1 - B2-MH-2	426.86 (B2-MH1)	426.49 (B2-MH-2)	36" RCP*	17'	2.28%	RCP
CH1 - CH0	402.78 (CH1)	400.00 (CH0)	48" RCP*	170'	1.64%	RCP
CH1.5 - CH1	404.86 (CH1.5)	402.78 (CH1)	96 X 48 INCH CONCRETE BOX CULVERT*	146'	1.43%	REINFORCED CONCRETE PIPE
CH2 - CH1.5	404.97 (CH2)	404.86 (CH1.5)	96 X 48 INCH CONCRETE BOX CULVERT*	8'	1.43%	REINFORCED CONCRETE PIPE
CH2.5 - CH2	405.16 (CH2.5)	404.97 (CH2)	96 X 48 INCH CONCRETE BOX CULVERT*	14'	1.43%	REINFORCED CONCRETE PIPE
CH3.5 - CH2.5	406.04 (CH3.5)	405.16 (CH2.5)	96 X 48 INCH CONCRETE BOX CULVERT*	220'	0.40%	REINFORCED CONCRETE PIPE
CH4 - CH3.5	406.68 (CH4)	406.04 (CH3.5)	96 X 48 INCH CONCRETE BOX CULVERT*	161'	0.40%	REINFORCED CONCRETE PIPE
CH4.5 - CH4	406.88 (CH4.5)	406.68 (CH4)	96 X 48 INCH CONCRETE BOX CULVERT*	50'	0.40%	REINFORCED CONCRETE PIPE
CH5 - CH4	407.86 (CH5)	407.60 (CH4)	18" RCP*	34'	0.76%	RCP
CH6 - CH4.5	407.07 (CH6)	406.88 (CH4.5)	96 X 48 INCH CONCRETE BOX CULVERT*	50'	0.40%	REINFORCED CONCRETE PIPE
CH7 - CH6	407.33 (CH7)	407.07 (CH6)	96 X 48 INCH CONCRETE BOX CULVERT*	64'	0.40%	REINFORCED CONCRETE PIPE
CH8 - CH7	408.21 (CH8)	408.05 (CH7)	15" RCP*	32'	0.50%	RCP
CH9 - CH7	407.55 (CH9)	407.33 (CH7)	96 X 48 INCH CONCRETE BOX CULVERT*	57'	0.40%	REINFORCED CONCRETE PIPE
CH9.5 - CH9	409.00 (CH9.5)	408.69 (CH9)	15" RCP*	32'	0.99%	RCP
CH10 - 133	408.00 (CH10)	407.70 (133)	120 X 36 INCH CONCRETE BOX CULVERT*	24'	1.28%	REINFORCED CONCRETE PIPE
CH10.5 - CH10	408.25 (CH10.5)	408.10 (CH10)	60" RCP*	26'	0.59%	RCP
CH11 - CH9	410.36 (CH11)	410.14 (CH9)	15" RCP*	23'	1.00%	RCP
CH34 - CH10	409.05 (CH34)	408.23 (CH10)	53" X 34" ELLIPTICAL CONCRETE PIPE*	49'	1.67%	
CH35 - CH34	409.42 (CH35)	409.25 (CH34)	15" RCP*	34'	0.50%	RCP
CH36 - CH34	414.50 (CH36)	410.00 (CH34)	36" RCP*	154'	2.93%	RCP
CH37 - CH36	414.67 (CH37)	414.50 (CH36)	15" RCP*	35'	0.50%	RCP
CH38 - CH36	424.73 (CH38)	416.00 (CH36)	36" RCP*	122'	7.17%	RCP
CH41 - CH3.5	410.82 (CH41)	410.00 (CH3.5)	15" RCP*	33'	2.54%	RCP
X46 - CH1.5	413.83 (X46)	406.67 (CH1.5)	15" RCP*	22'	33.11%	RCP
X129 - CH36	417.23 (X129)	416.96 (CH36)	18" RCP*	28'	1.00%	RCP

STRUCTURE TABLE		
NAME	DESCRIPTION	TOP GRATE
CH0	HEADWALL	404.38
CH1	8' X 12' VAULT WITH MANHOLE ACCESS	418.59
CH1.5	DIRECT PIPE CONNECTION	409.98
CH2	BOX CULVERT ACCESS POINT - MANHOLE	417.73
CH2.5	DIRECT PIPE CONNECTION	410.28
CH3.5	STACKOUT - DOUBLE GRATE	417.23
CH4	STACKOUT - SINGLE GRATE	416.55
CH4.5	STACKOUT - SINGLE GRATE	416.37
CH5	METRO DR-105	416.36
CH6	STACKOUT - DOUBLE GRATE	416.30
CH7	STACKOUT - SINGLE GRATE	416.53
CH8	METRO DR-105	415.91
CH9	STACKOUT - DOUBLE GRATE	416.28
CH9.5	METRO DR-105	416.19
CH10	10' X 10' CONCRETE VAULT	417.34
CH10.5	84" MH	418.12
CH11	METRO DR-105	416.84
CH34	84" TDOT D-CB-12RC - DOUBLE	416.80
CH35	METRO DR-105	416.26
CH36	84" TDOT D-CB-12RC - SINGLE	422.95
CH37	METRO DR-105	422.64
CH38	60" MANHOLE	432.83
CH38.1	METRO DR-110	432.79
CH41	METRO DR-105	417.21

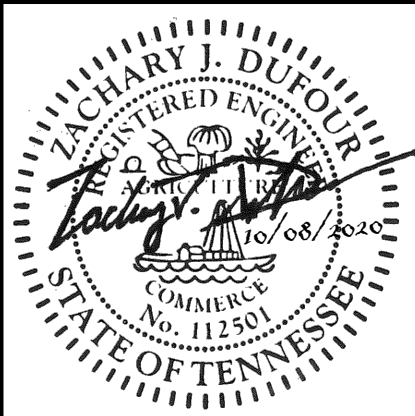
STORM NETWORK NAMING CONVENTIONS	
THE FOLLOWING NAMING CONVENTIONS APPLY TO THE STORM NETWORK TO DIFFERENTIATE BETWEEN EXISTING, DESIGNED AND PROPOSED FOR THIS PROJECT. ANY PIPE CONTAINING "CHP" IS PROPOSED FOR THE CAYCE PHASE 1	
CH#	PROPOSED CAYCE HOMES STRUCTURE/PIPE
B1-#	BOSCOBEL 1 DESIGNED STRUCTURE/PIPE
B2-#	BOSCOBEL 2 DESIGNED STRUCTURE/PIPE
B-#	BOSCOBEL 3 DESIGNED STRUCTURE/PIPE
E-#	EXPLORE! SCHOOL DESIGNED STRUCTURE/PIPE
R-#	RED OAKS TOWNHOMES DESIGNED STRUCTURE/PIPE
M-#	MARTHA O'BRYAN DESIGNED STRUCTURE/PIPE
X# AND EX-#	EXISTING STORM STRUCTURE/PIPE

BID SET

Kimley»»Horn

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CAYCE UTILITY PHASE 1A
MDHA
NASHVILLE, TN

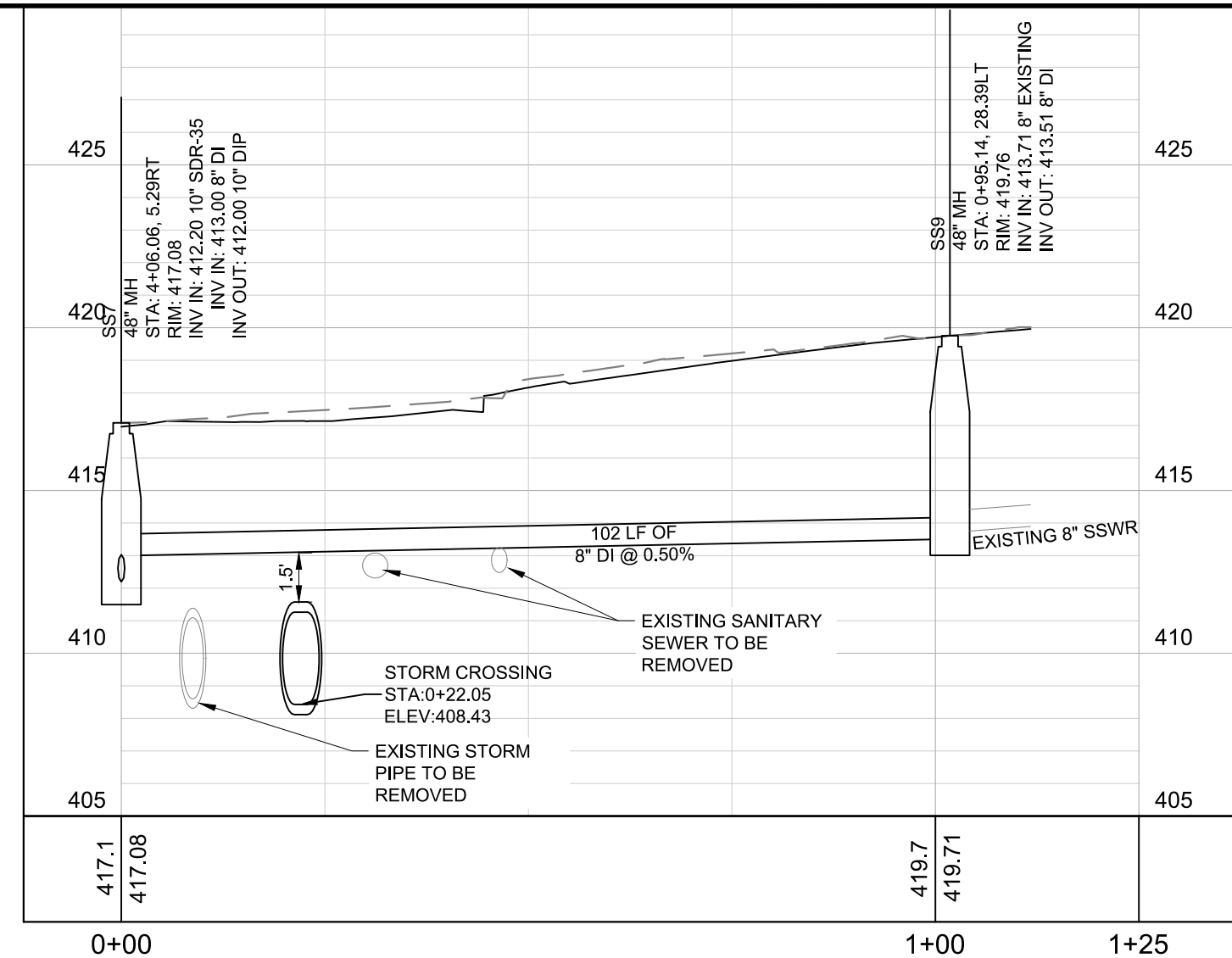
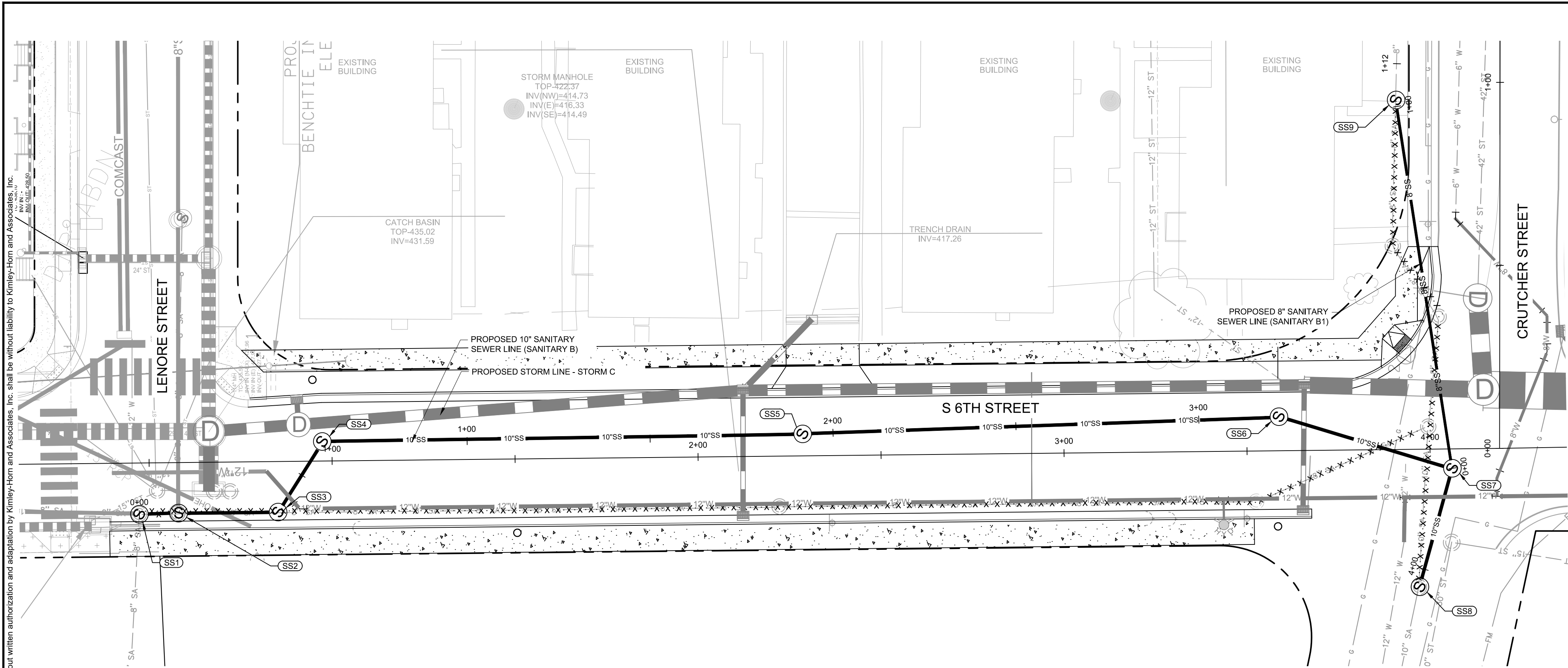


REVISIONS	No.	DATE	BY						
				1	2	3	4	5	6

DESIGNED BY: KKF
DRAWN BY: LEB
CHECKED BY: ZJD
DATE: 10/08/2020
KIMLEY-HORN PROJECT NO. 118109016

STORM STRUCTURE AND PIPE TABLES

SHEET NUMBER
C2-07



SANITARY B1 - LENORE GARDENS CONNECTION

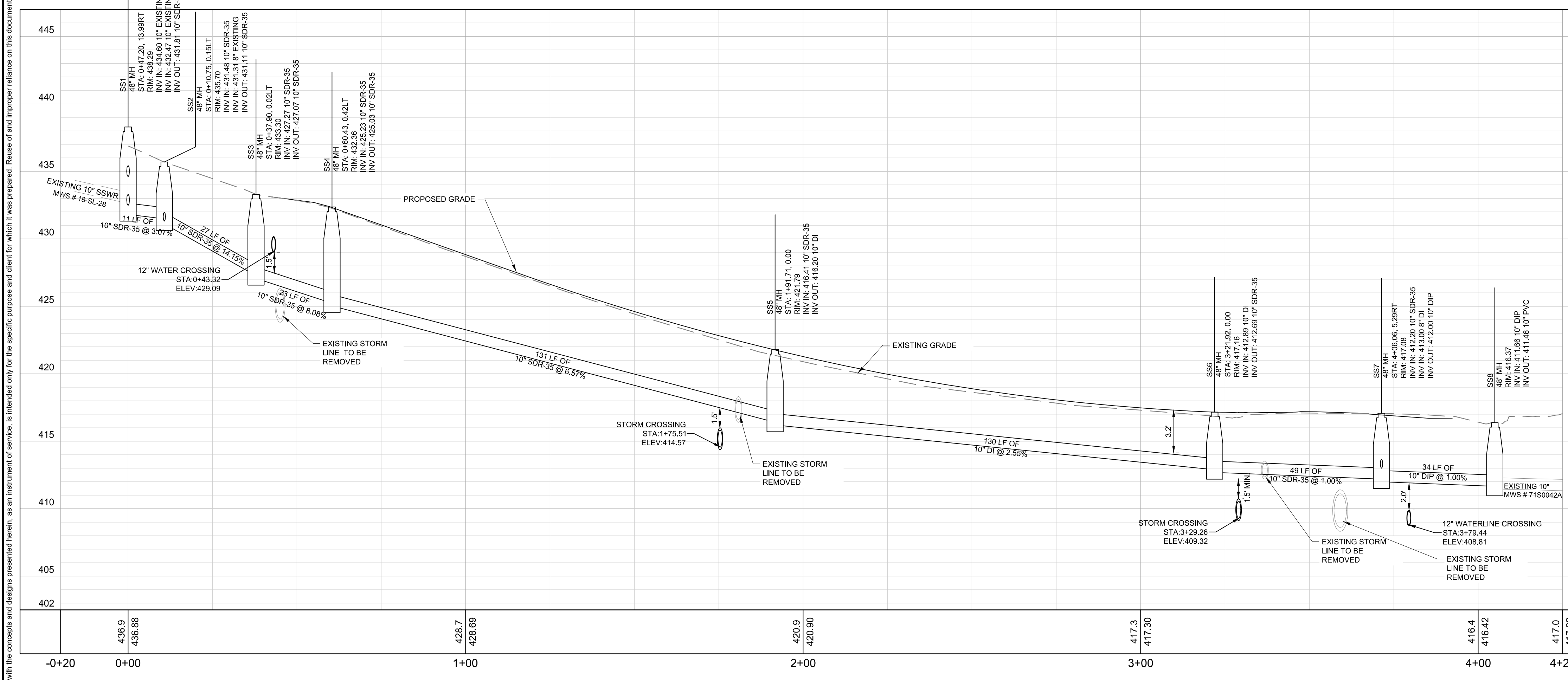
S 6th Street HGL Calculation Assumptions

ADF = 136,910 gpd
 ADF = 95.1 gpm
 Peaking Factor = 4.0
 Peak Flow = 380.3 gpm
 Manning's n = 0.013

*ALL FLOWS ASSUMED TO ENTER THE MH UPSTREAM OF EX SS1
 **MODEL CONDITIONS ASSUME THE CONNECTION TO THE EXISTING SYSTEM IS NOT SURCHARGED

HGL Calculations

Manhole	Average Daily Flow			Peak Daily Flow			Proposed Invert Out (FT MSL)		
	Max Flow Depth (FT)	% Full	Velocity (fps)	Max HGL (FT MSL)	Max Flow Depth (FT)	% Full		Velocity (fps)	
SS1	0.20	24%	2.13	432.01	0.41	49%	3.20	432.22	431.81
SS2	0.20	24%	3.74	431.31	0.41	49%	5.17	431.52	431.11
SS3	0.20	24%	6.46	427.27	0.45	54%	9.76	427.52	427.07
SS4	0.20	24%	5.29	425.23	0.45	54%	8.32	425.48	425.03
SS5	0.20	24%	4.94	416.40	0.45	54%	7.84	416.65	416.20
SS6	0.20	24%	3.54	412.89	0.45	54%	5.58	413.14	412.69
SS7	0.20	24%	2.54	412.20	0.45	54%	3.95	412.45	412.00
SS8	0.20	24%	2.54	411.66	0.45	54%	3.95	411.91	411.46



SANITARY B - 6TH STREET

STRUCTURE TABLE

NAME	DESCRIPTION	TOP LID
SS1	48" MH	438.29
SS2	48" MH	435.70
SS3	48" MH	433.30
SS4	48" MH	432.36
SS5	48" MH	421.79
SS6	48" MH	417.16
SS7	48" MH	417.08
SS8	48" MH	416.37
SS9	48" MH	419.76

PIPE TABLE

NAME	UPSTREAM	DOWNSTREAM	SIZE	LENGTH	SLOPE	MATERIAL
SS1 - SS2	431.81 (SS1)	431.48 (SS2)	10"	11'	3.07%	SDR-35
SS2 - SS3	431.11 (SS2)	427.27 (SS3)	10"	28'	14.15%	SDR-35
SS3 - SS4	427.07 (SS3)	425.23 (SS4)	10"	23'	8.08%	SDR-35
SS4 - SS5	425.03 (SS4)	416.41 (SS5)	10"	132'	6.57%	SDR-35
SS5 - SS6	416.20 (SS5)	412.89 (SS6)	10"	131'	2.55%	DI
SS6 - SS7	412.89 (SS6)	412.20 (SS7)	10"	50'	1.00%	SDR-35
SS7 - SS8	412.00 (SS7)	411.66 (SS8)	10"	34'	1.00%	DIP
SS8 - SS9	413.51 (SS8)	413.00 (SS9)	8"	102'	0.50%	DI

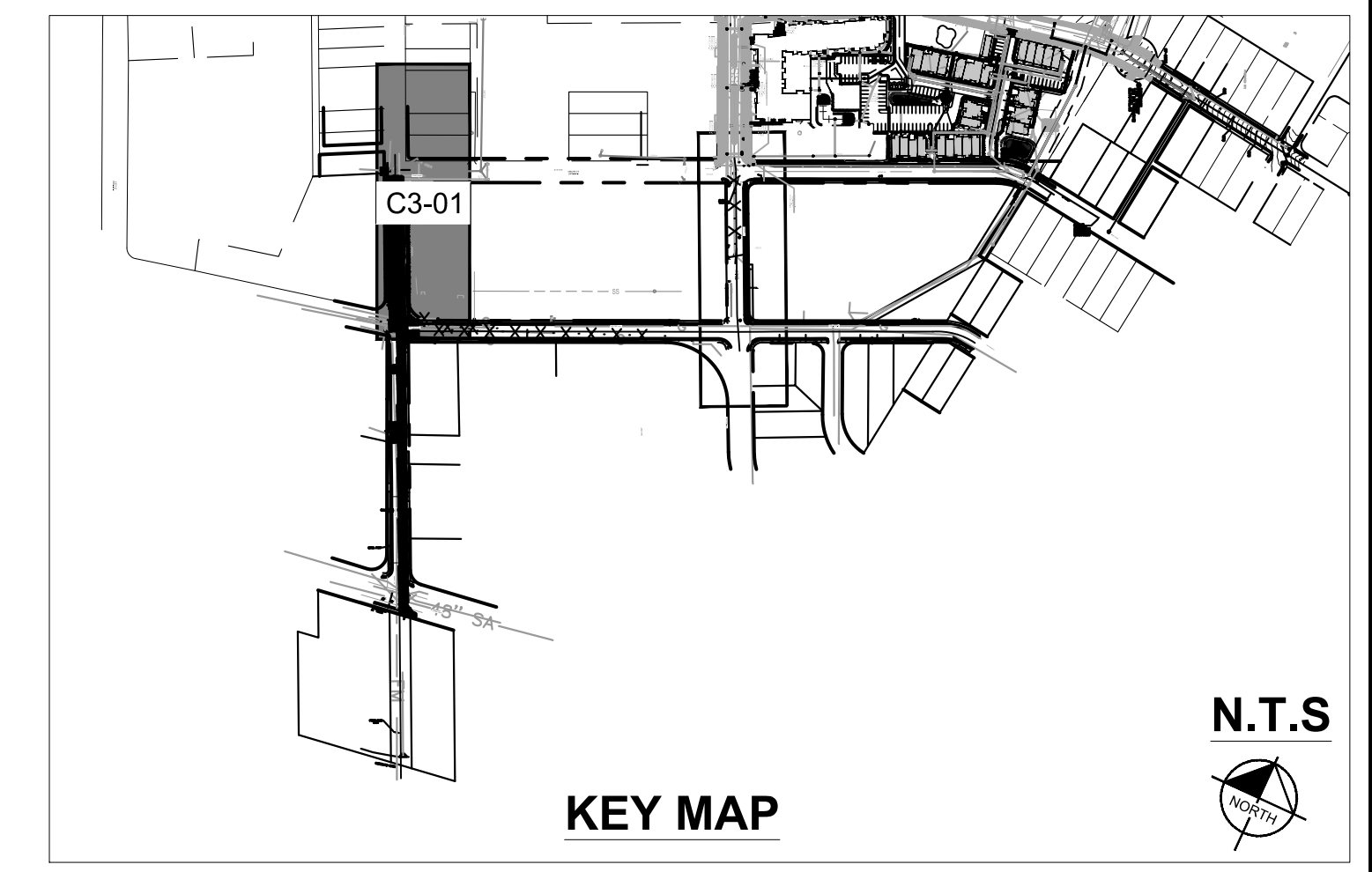
NOTE: STRUCTURE STATION AND OFFSET DATA REFERENCED TO CENTERLINE ALIGNMENT

EXISTING UTILITIES NOTE

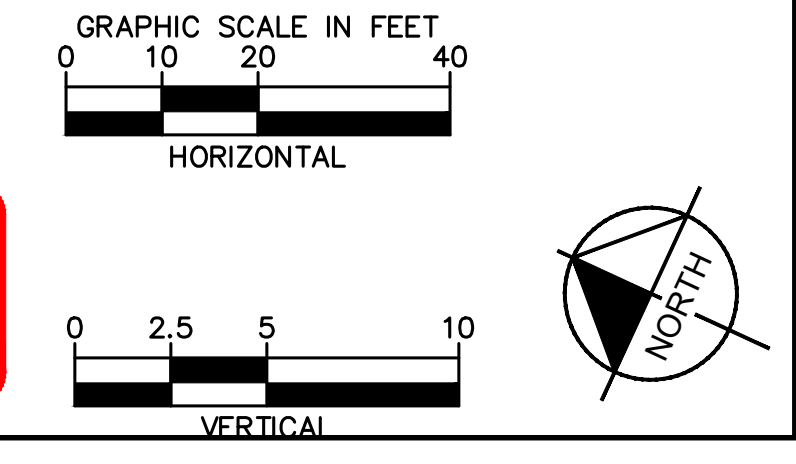
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LEGEND

- UTILITY TO BE ABANDONED
- UTILITY TO BE REMOVED



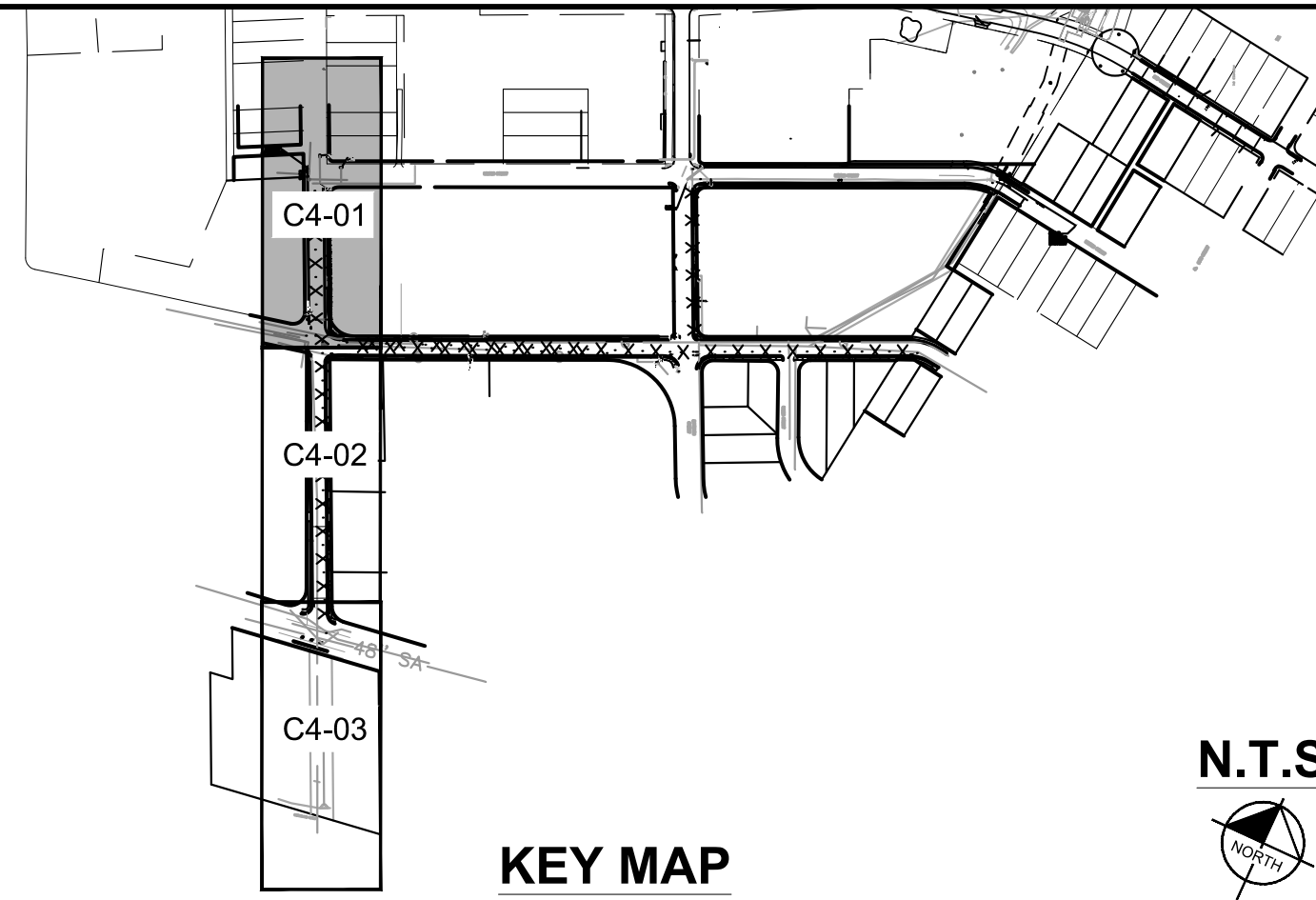
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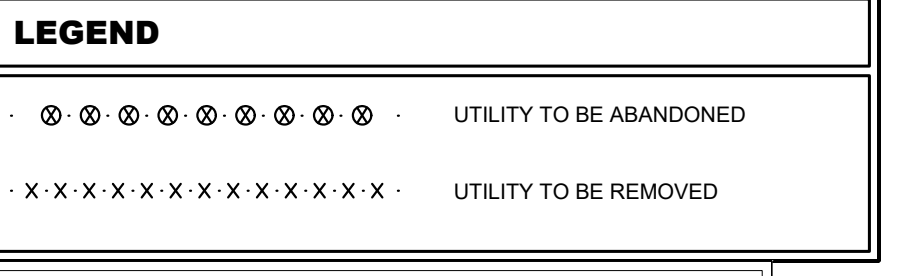
DESIGNED BY: KKF
 DRAWN BY: LEB
 CHECKED BY: ZJD
 DATE: 10/08/2020
 KIMLEY-HORN PROJECT NO. 118109016
 SANITARY SEWER PLAN AND PROFILE
 SHEET NUMBER
C3-01

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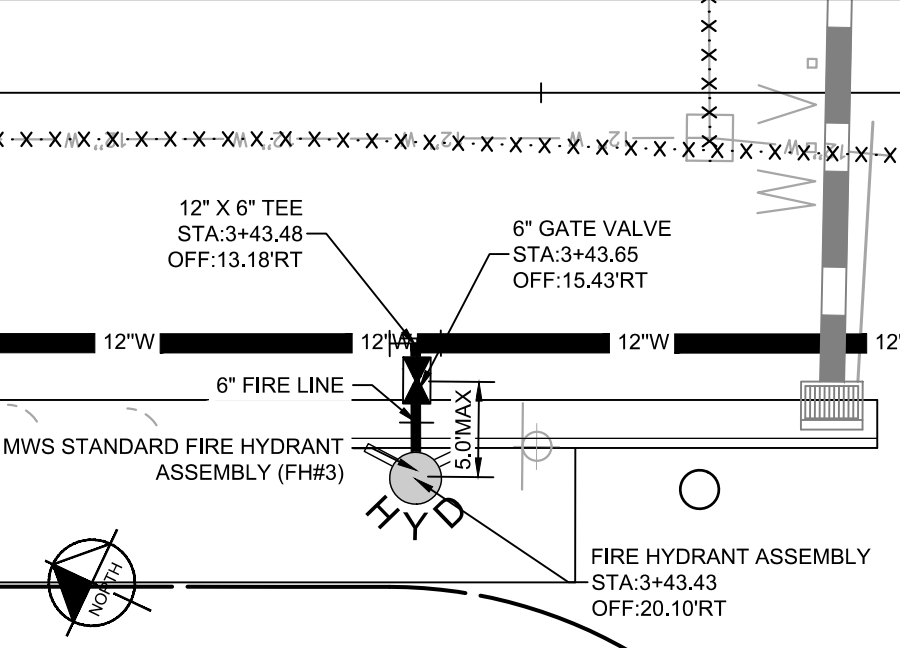


KEY MAP

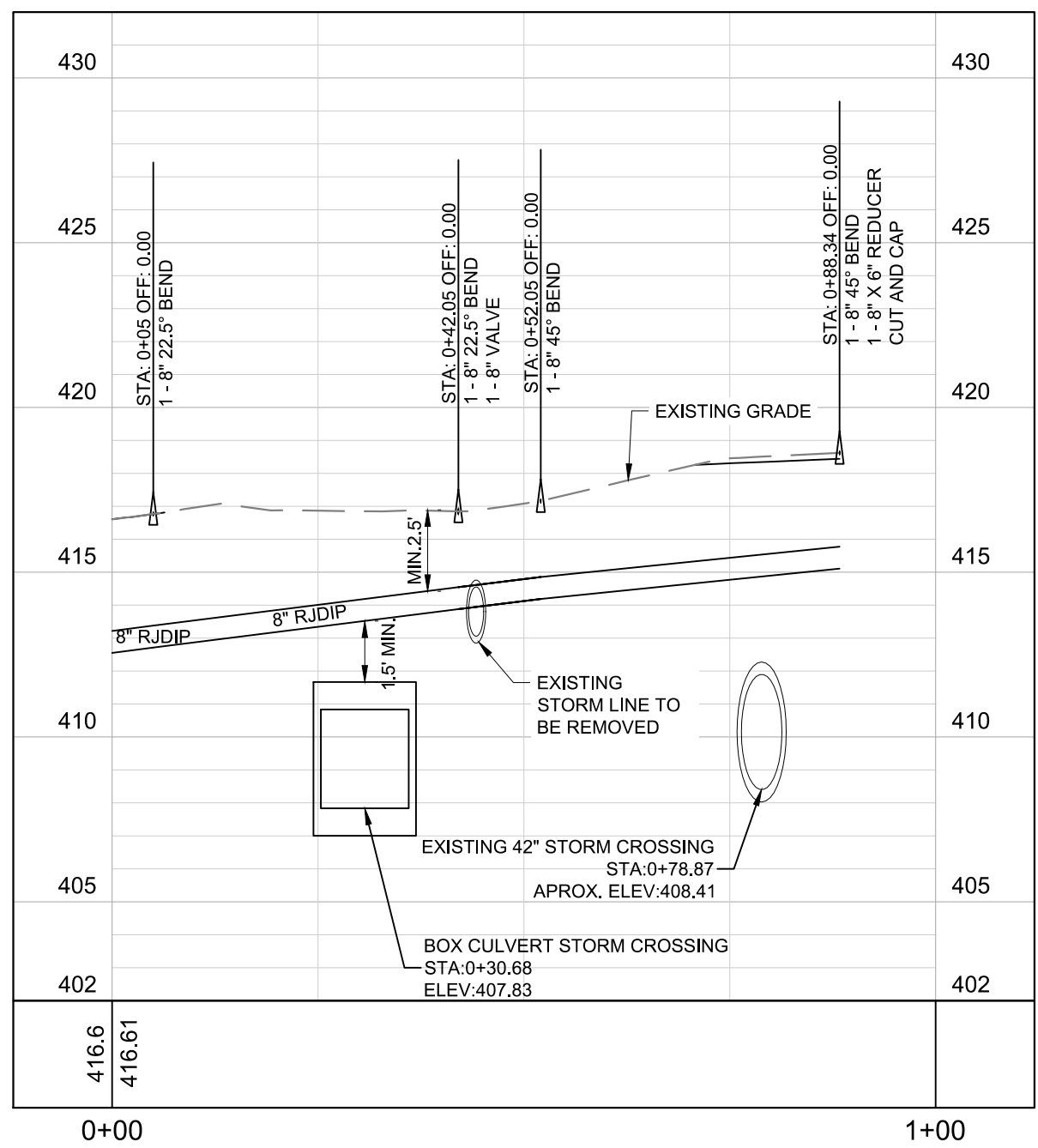
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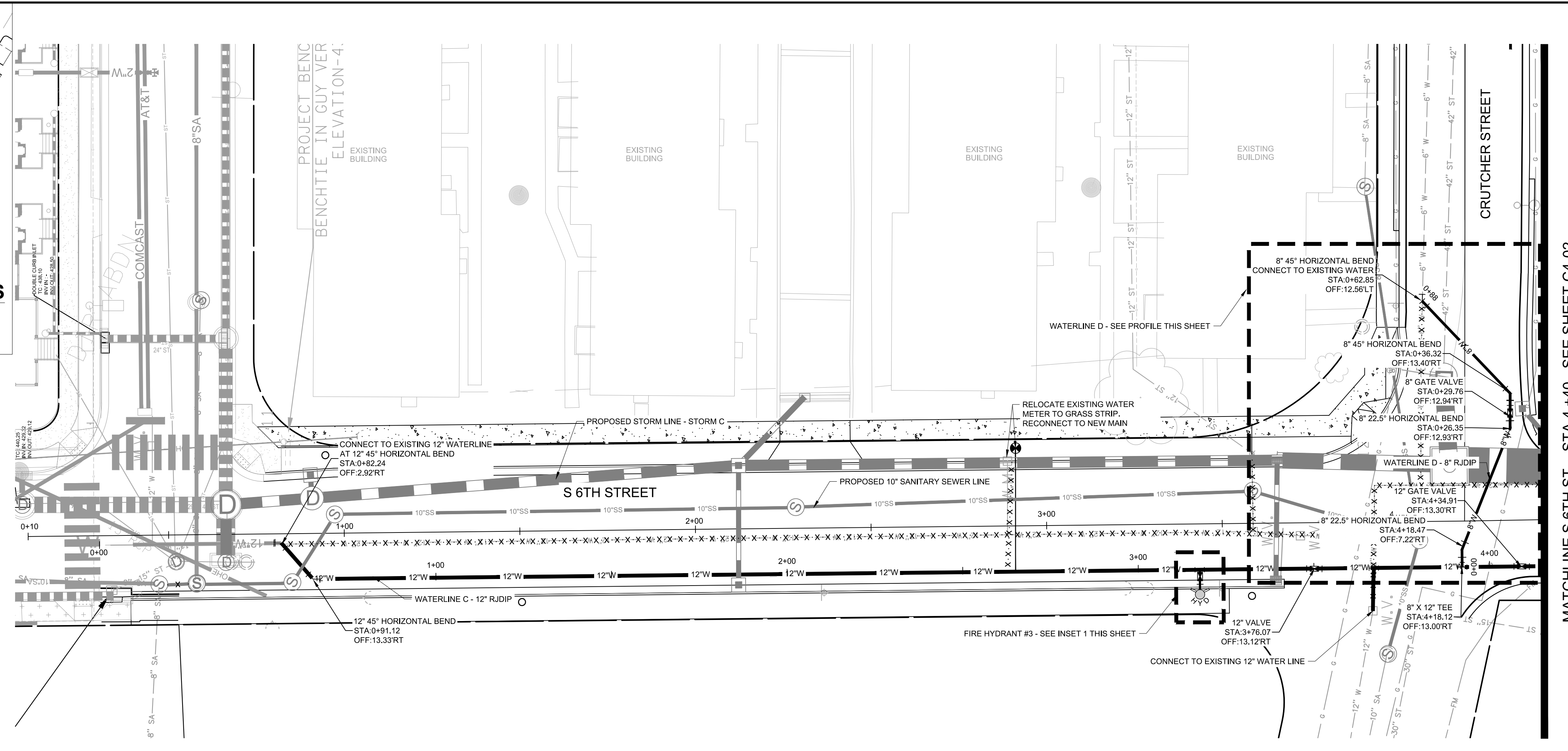
- EXISTING UTILITIES NOTE**
- CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES AND/OR CONFLICTS WITH EXISTING OR PROPOSED UTILITIES PRIOR TO PROCEEDING.
 - LOCATIONS OF FORCE MAIN AND GAS LINES ARE APPROXIMATE. CONTRACTOR IS NOT TO DISTURB EXISTING FORCE MAIN OR GAS LINES



1 FIRE HYDRANT #3
SCALE: 1" = 10'



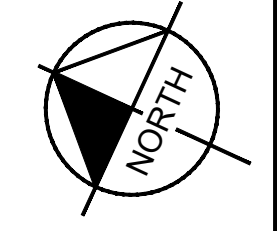
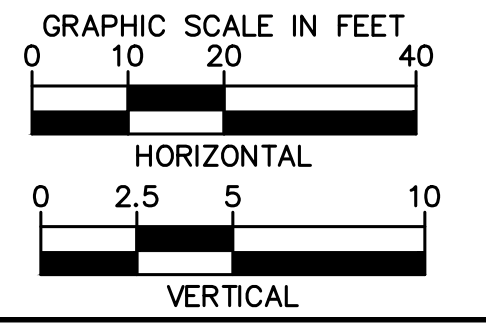
WATERLINE D - CRUTCHER ST. TIE IN



NOTE: STRUCTURE STATION AND OFFSET DATA REFERENCED TO S. 6TH STREET CENTERLINE ALIGNMENT

WATERLINE C - S 6TH ST

BID SET



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DESIGNED BY: KKF
DRAWN BY: LEB
CHECKED BY: ZJD
DATE: 10/08/2020
KIMLEY-HORN PROJECT NO. 118109016

WATER PLAN AND PROFILE
SHEET NUMBER
C4-01

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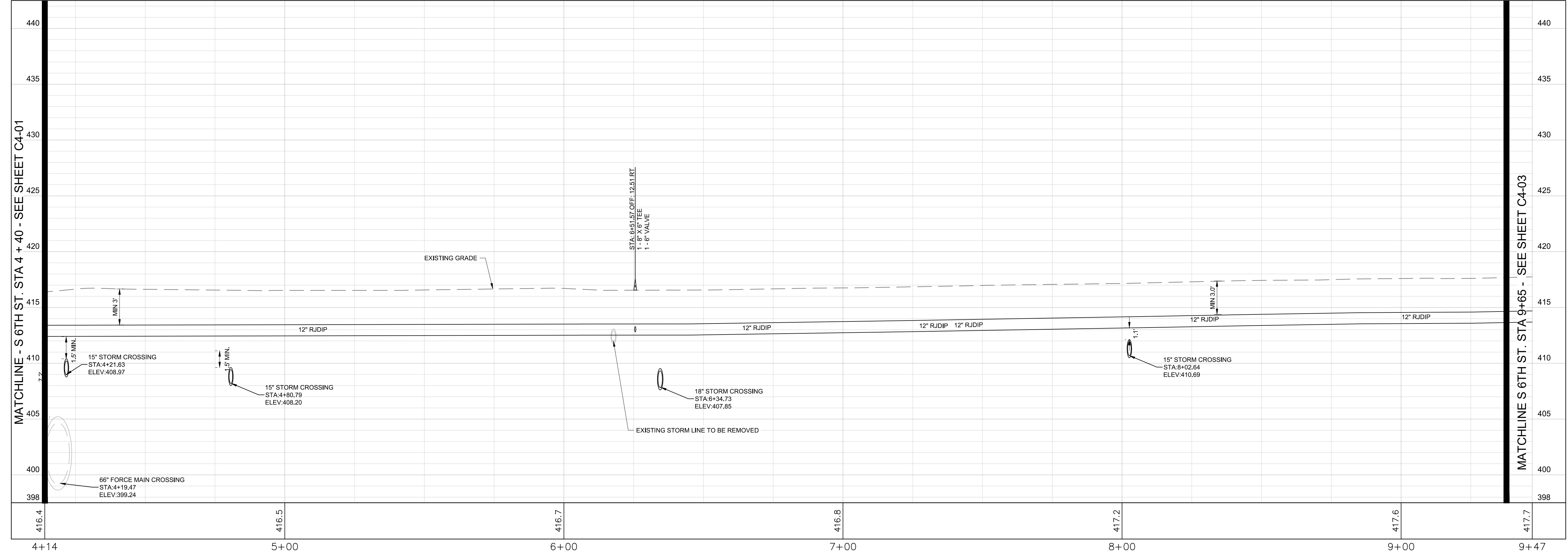
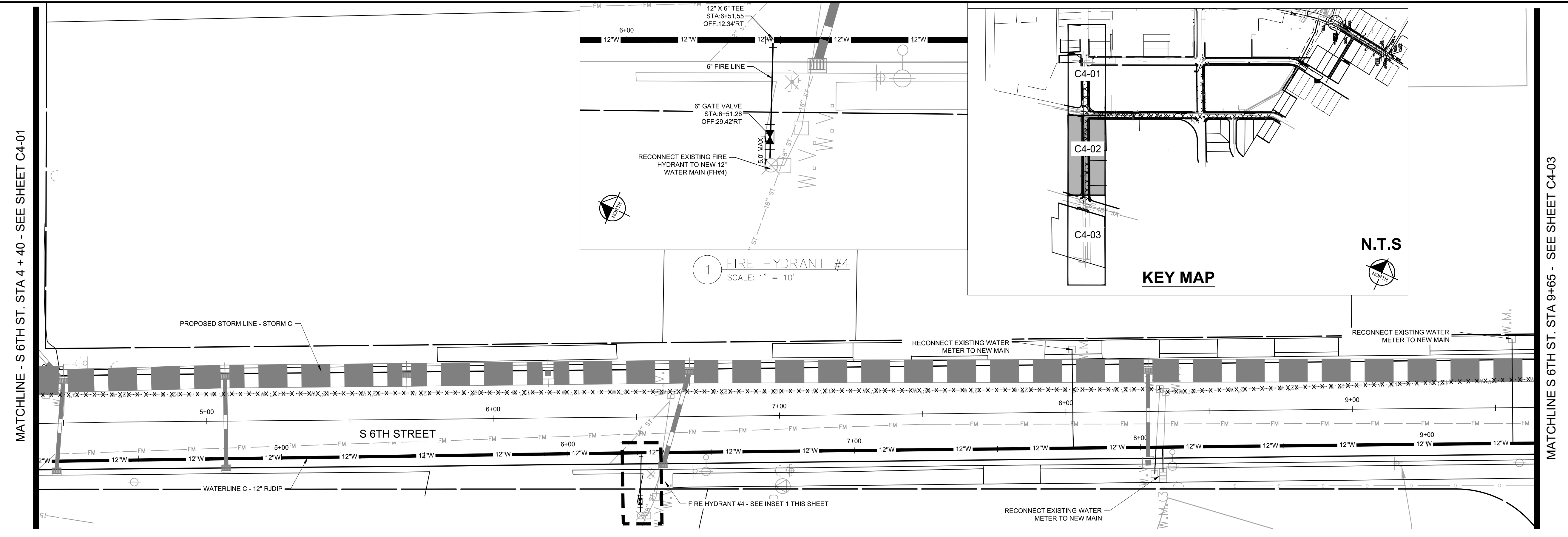
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DESIGNED BY:	KKF
DRAWN BY:	LEB
CHECKED BY:	ZJD
DATE:	10/08/2020
KIMLEY-HORN PROJECT NO. 118109016	
WATER PLAN AND PROFILE	
SHEET NUMBER C4-02	



NOTE: STRUCTURE STATION AND OFFSET DATA REFERENCED TO CENTERLINE ALIGNMENT

EXISTING UTILITIES NOTE

- CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES AND/OR CONFLICTS WITH EXISTING OR PROPOSED UTILITIES PRIOR TO PROCEEDING.
- LOCATIONS OF FORCE MAIN AND GAS LINES ARE APPROXIMATE. CONTRACTOR IS NOT TO DISTURB EXISTING FORCE MAIN OR GAS LINES

LEGEND	
- ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ -	UTILITY TO BE ABANDONED
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BID SET

GRAPHIC SCALE IN FEET

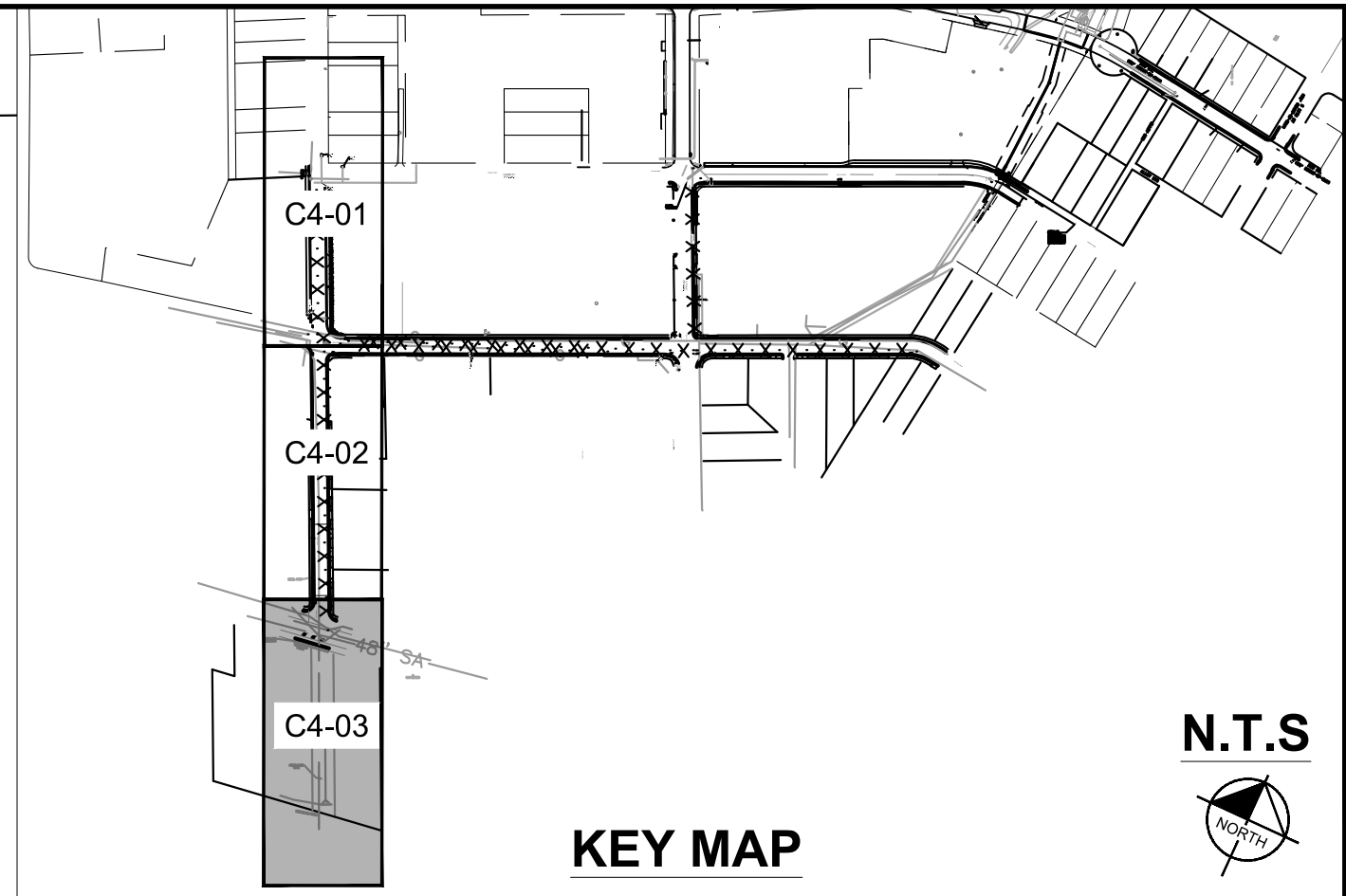
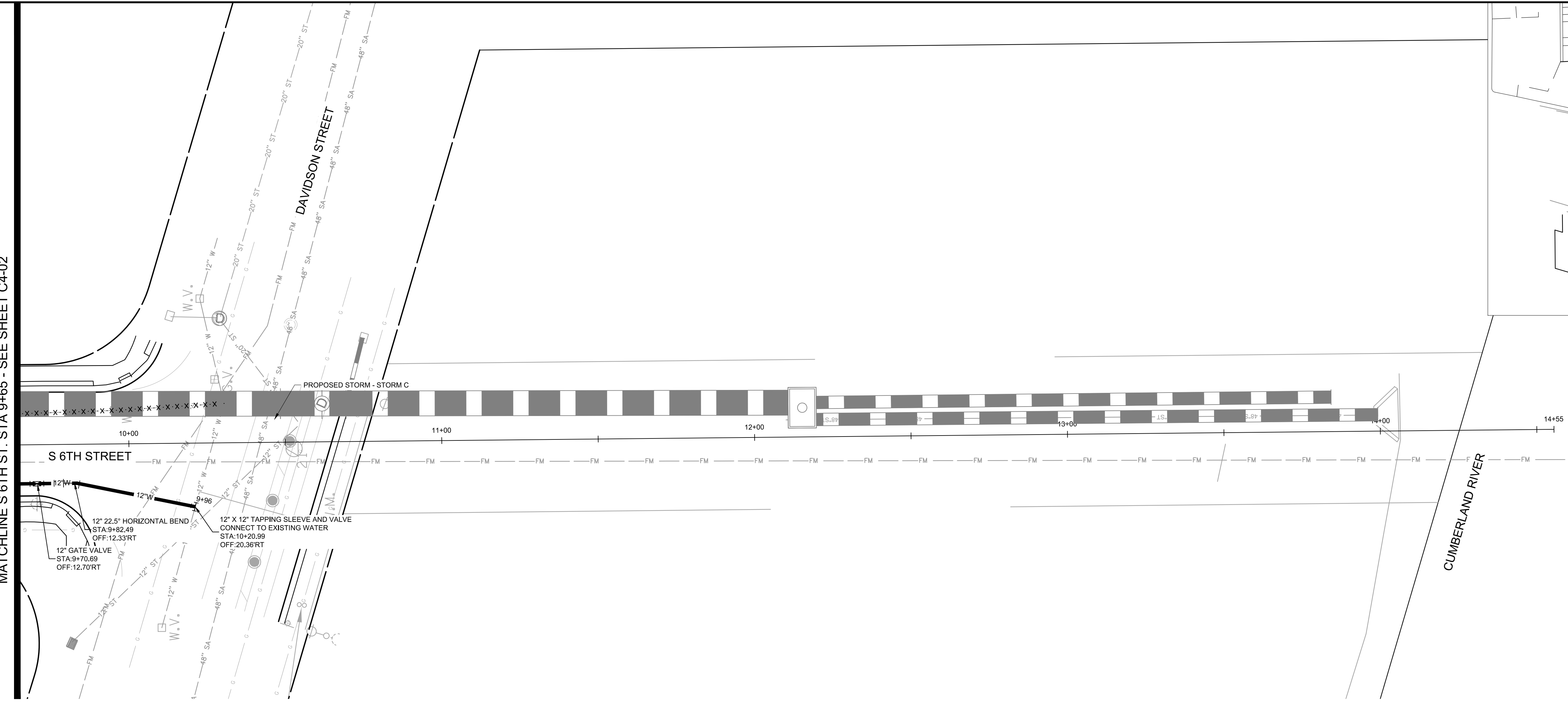
 HORIZONTAL

VERTICAL

NORTH

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MATCHLINE S 6TH ST. STA 9+65 - SEE SHEET C4-02



KEY MAP

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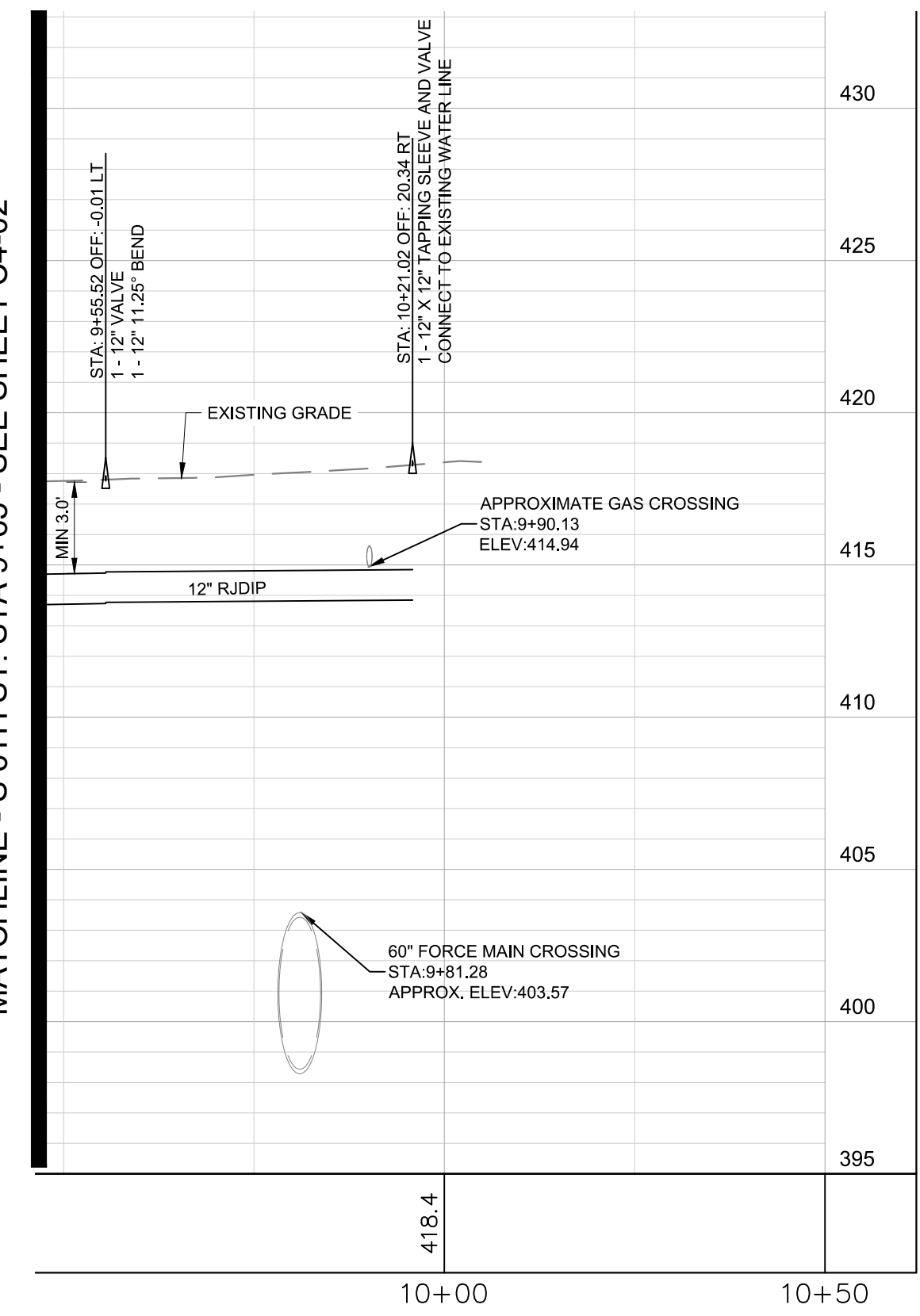
LEGEND

- UTILITY TO BE ABANDONED
UTILITY TO BE REMOVED

EXISTING UTILITIES NOTE

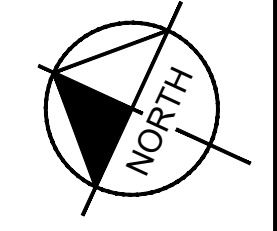
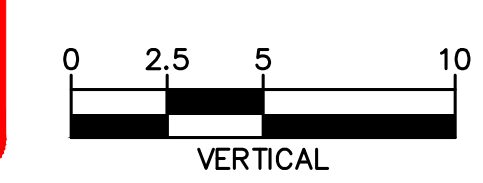
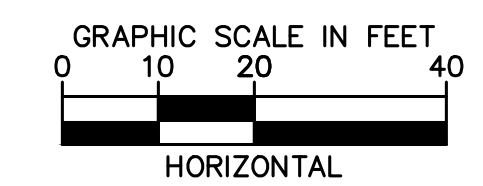
- 1. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES AND/OR CONFLICTS WITH EXISTING OR PROPOSED UTILITIES PRIOR TO PROCEEDING.
2. LOCATIONS OF FORCE MAIN AND GAS LINES ARE APPROXIMATE. CONTRACTOR IS NOT TO DISTURB EXISTING FORCE MAIN OR GAS LINES

MATCHLINE - S 6TH ST. STA 9+65 - SEE SHEET C4-02



WATERLINE C - S 6TH ST

NOTE: STRUCTURE STATION AND OFFSET DATA REFERENCED TO CENTERLINE ALIGNMENT



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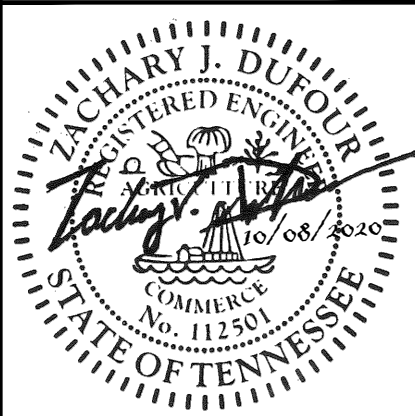
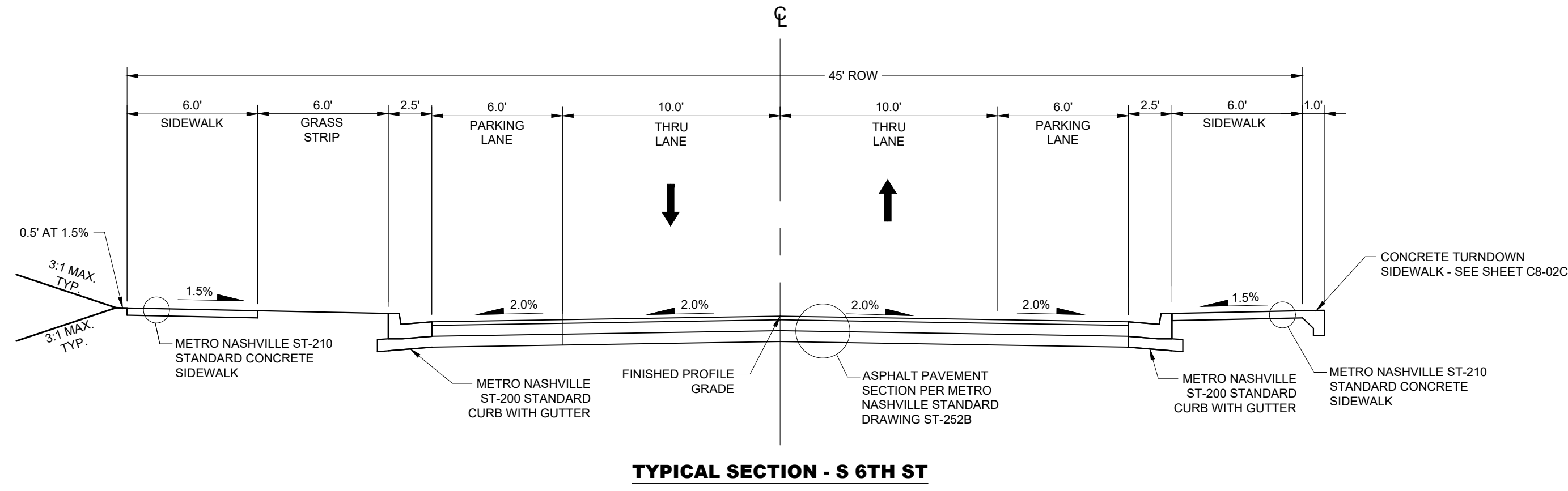


Table with columns for REVISIONS, DATE, and BY.

Table with columns for No., DESIGNED BY (KKF), DRAWN BY (LEB), CHECKED BY (ZJD), DATE (10/08/2020), and KIMLEY-HORN PROJECT NO. (118109016).

WATER PLAN AND PROFILE
SHEET NUMBER
C4-03

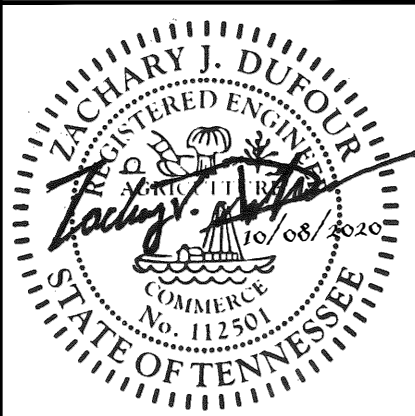
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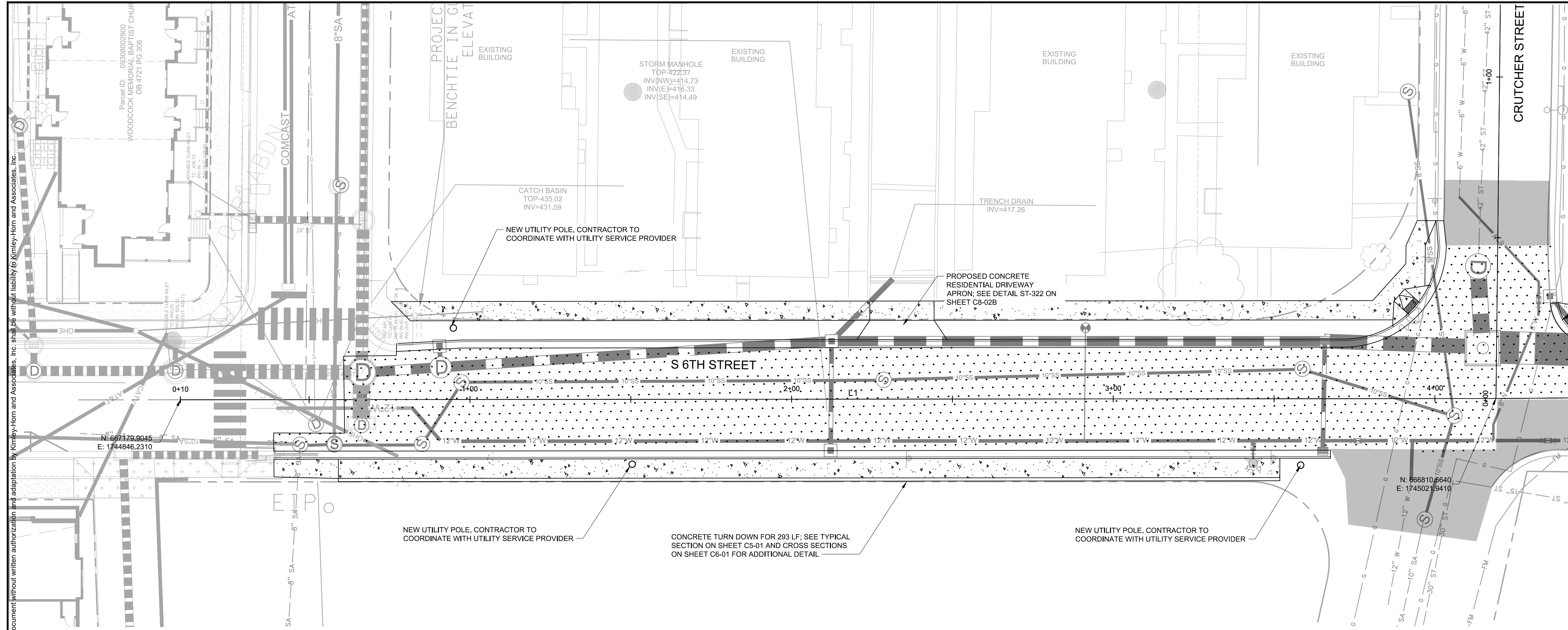
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DESIGNED BY: KKF
DRAWN BY: LEB
CHECKED BY: ZJD
DATE: 10/08/2020
KIMLEY-HORN PROJECT NO. 118109016

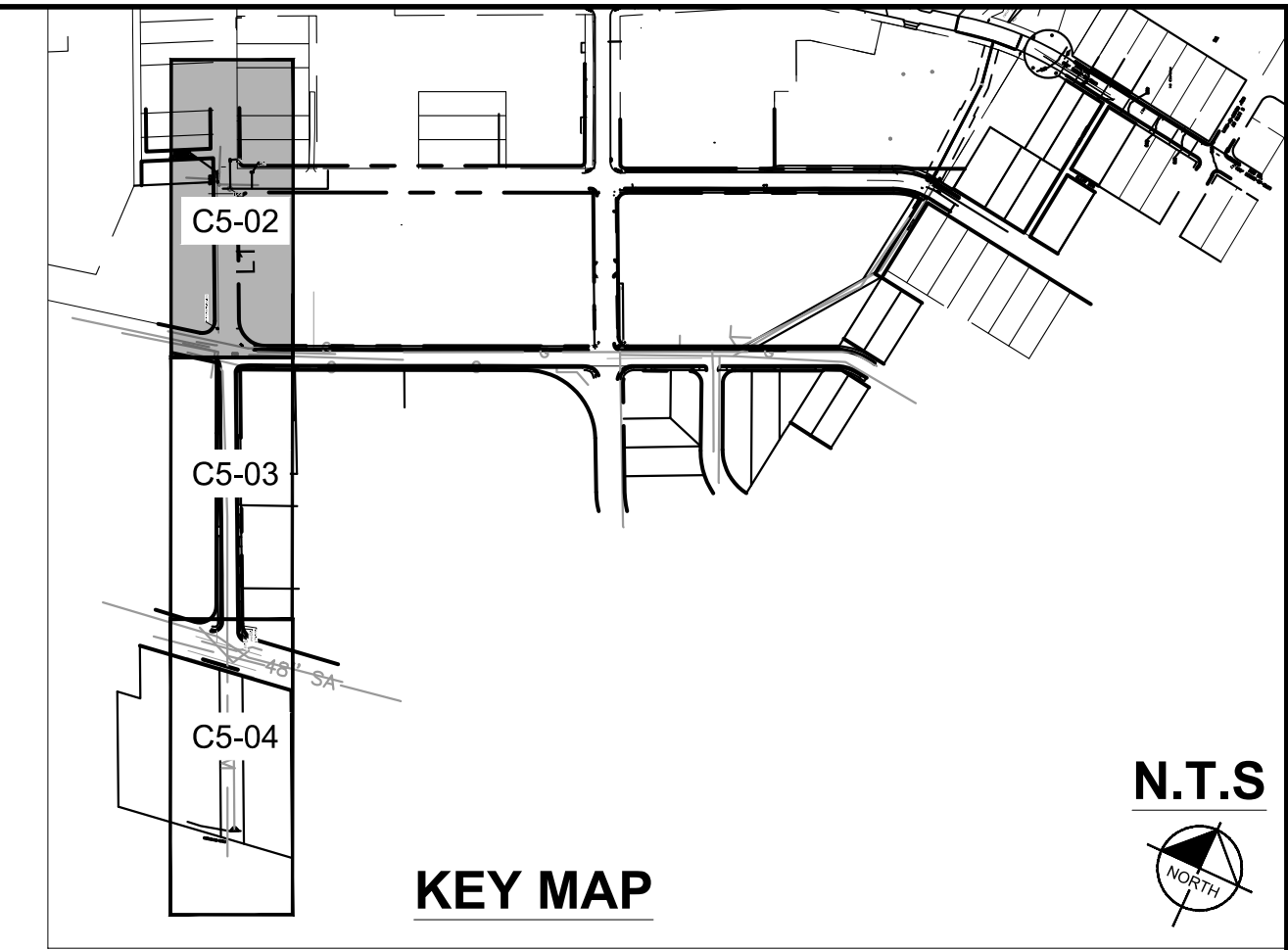
ROADWAY TYPICAL SECTIONS

SHEET NUMBER
C5-01

BID SET



MATCHLINE SEE SHEET C5-03

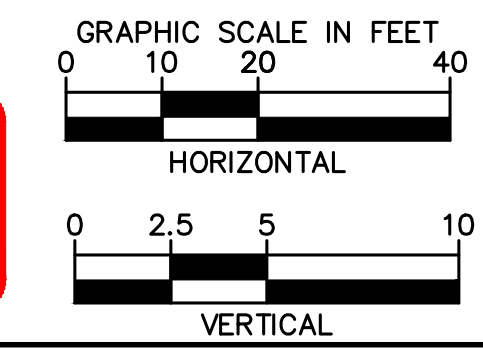
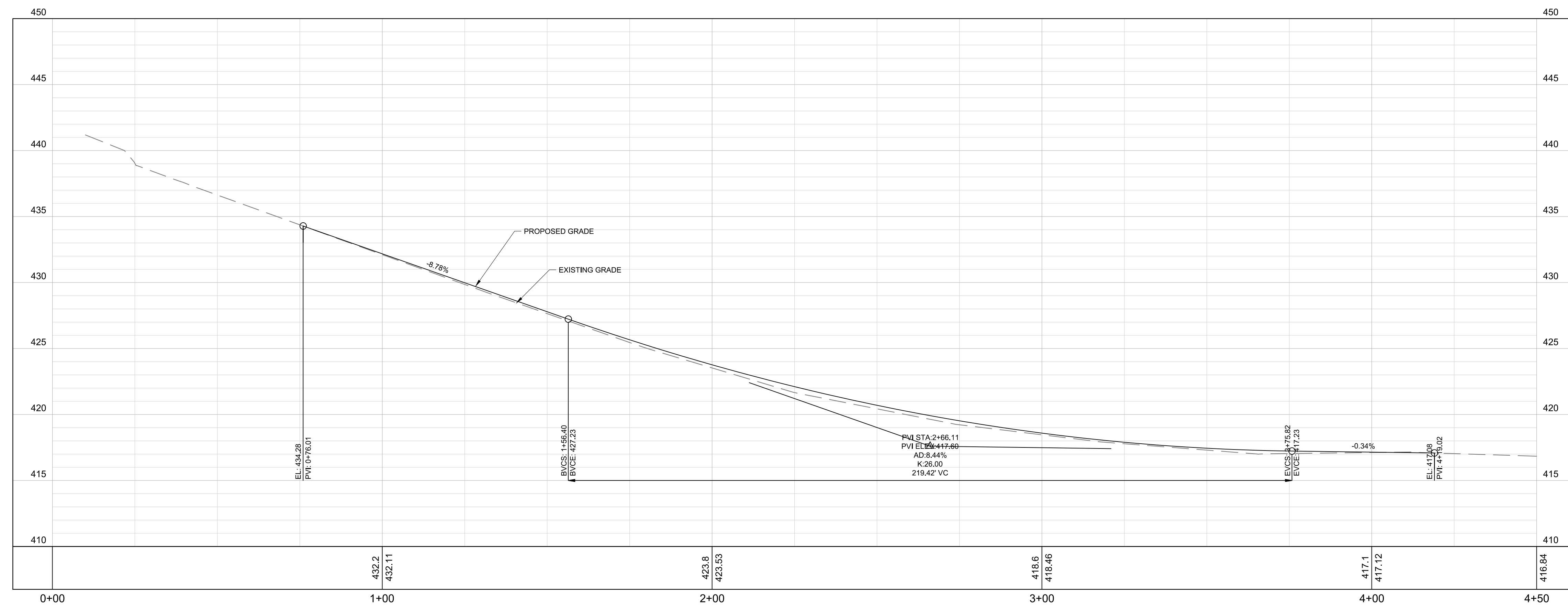


HATCH LEGEND

	FULL DEPTH ASPHALT PAVEMENT (METRO PUBLIC WORKS ST-252B)
	CONCRETE SIDEWALK (METRO PUBLIC WORKS ST-210)
	1.5" MILL AND OVERLAY

S 6TH ST

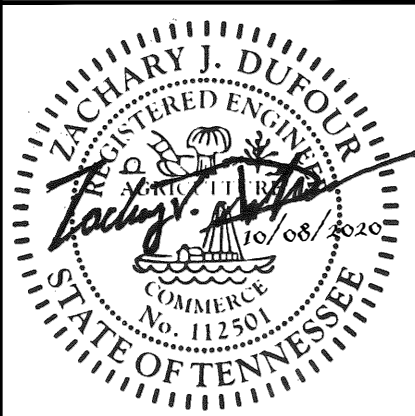
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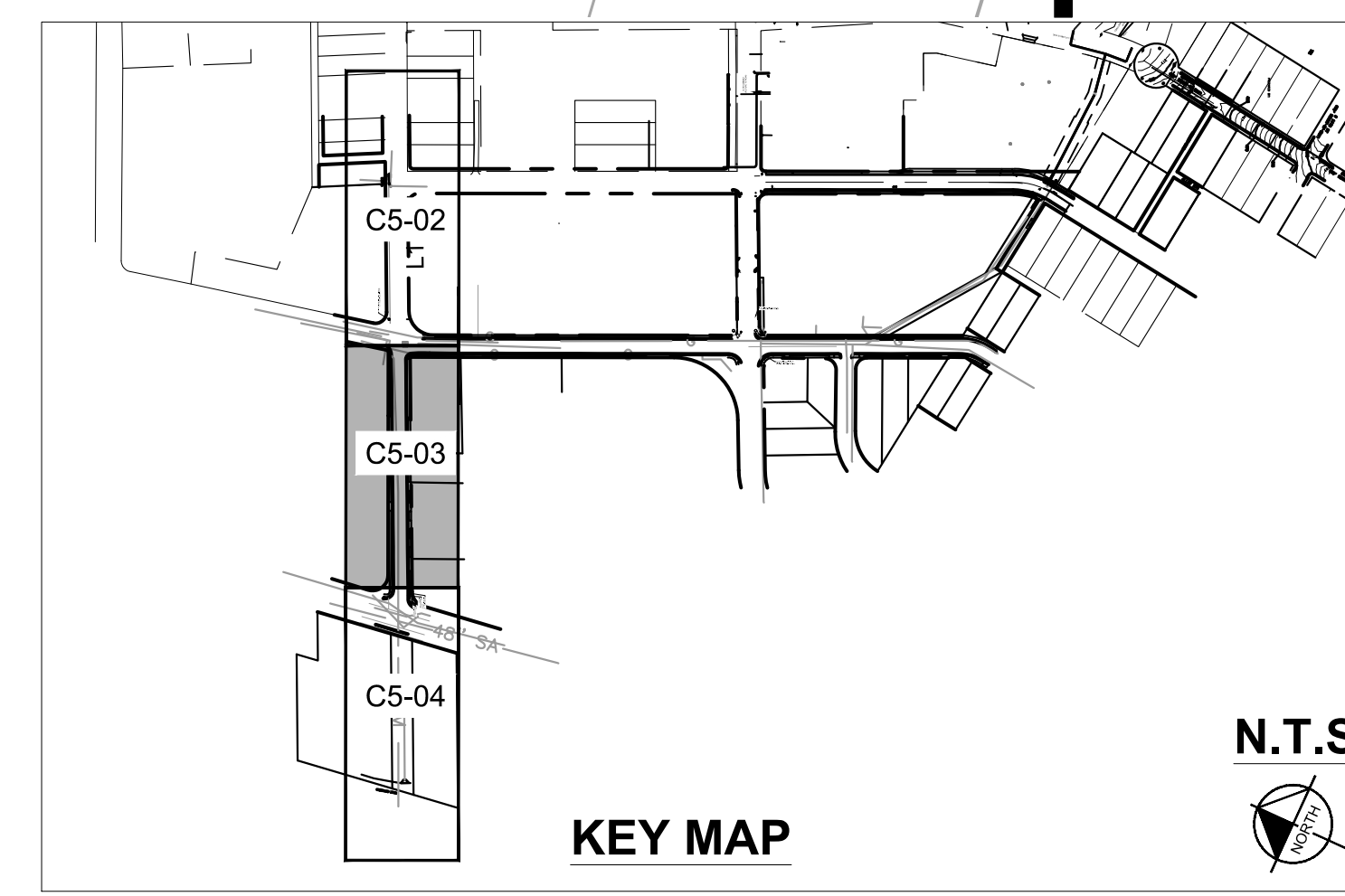
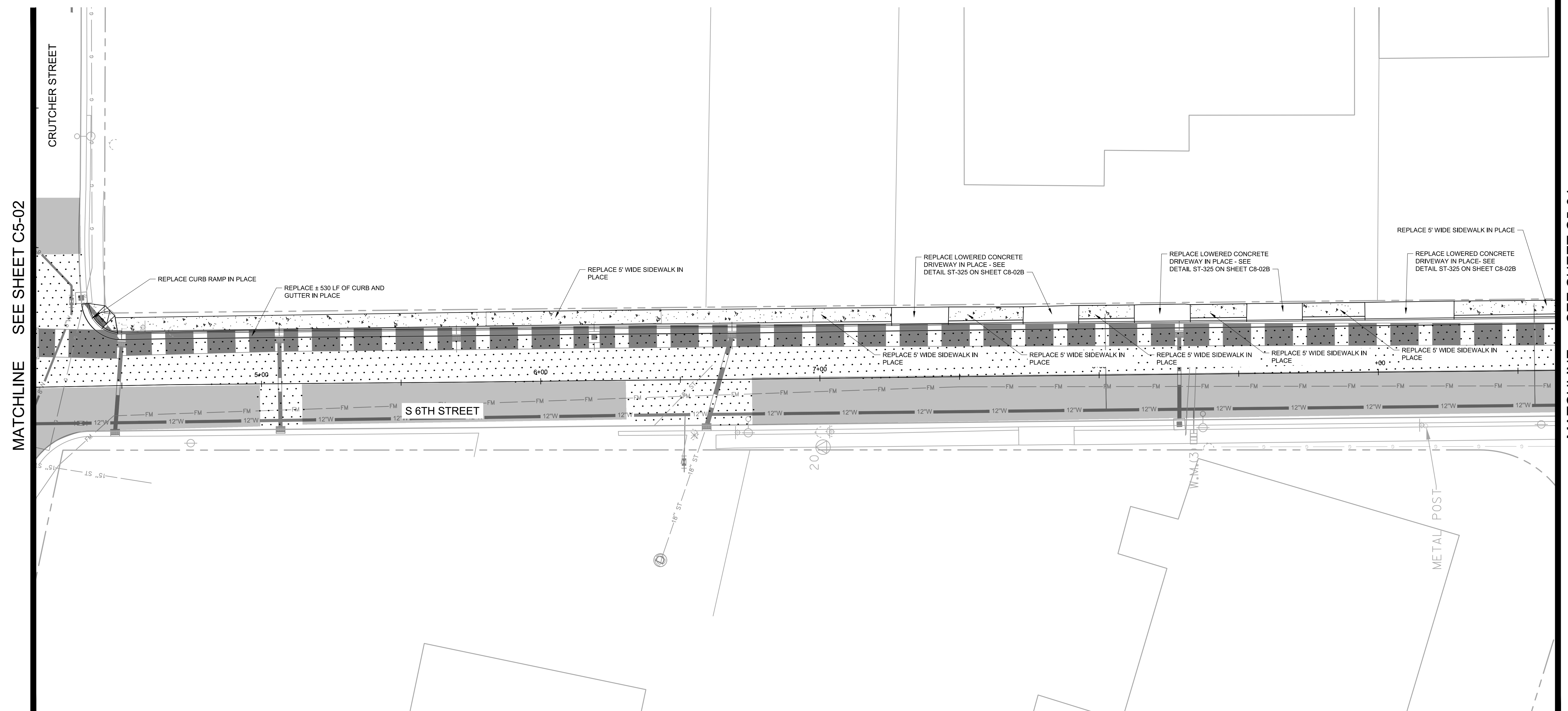
CAYCE UTILITY PHASE 1A
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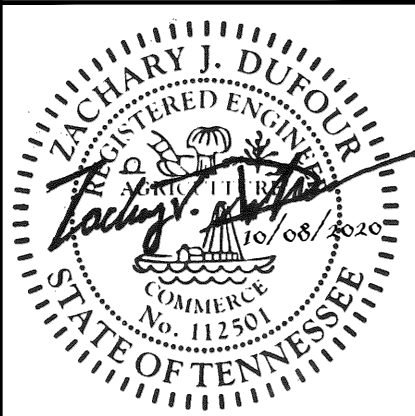
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DESIGNED BY:	KKF
DRAWN BY:	LEB
CHECKED BY:	ZJD
DATE:	10/08/2020
KIMLEY-HORN PROJECT NO.:	118109016
ROADWAY PLAN AND PROFILE - S 6TH STREET	
SHEET NUMBER	C5-02

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HATCH LEGEND	
	FULL DEPTH ASPHALT PAVEMENT (METRO PUBLIC WORKS ST-252B)
	CONCRETE SIDEWALK (METRO PUBLIC WORKS ST-210)
	1.5" MILL AND OVERLAY



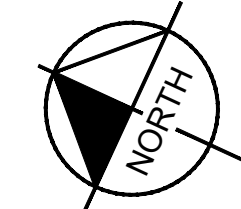
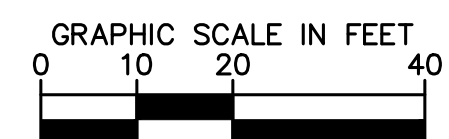
NO.	DATE	BY	REVISIONS

DESIGNED BY: KKF
 DRAWN BY: LEB
 CHECKED BY: ZJD
 DATE: 10/08/2020
 KIMLEY-HORN PROJECT NO.
 118109016

ROADWAY PLAN AND PROFILE - S 6TH STREET

SHEET NUMBER
C5-03

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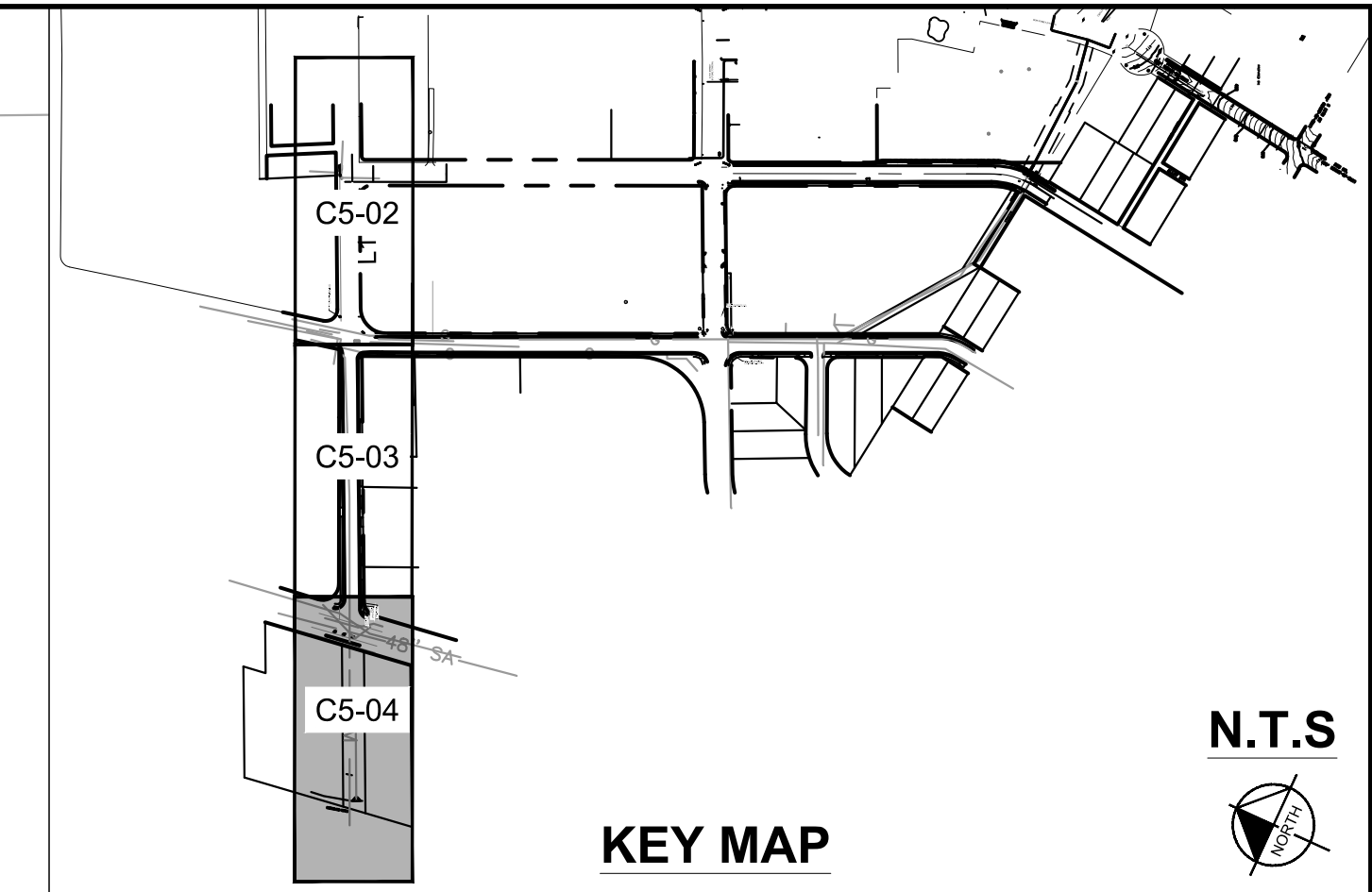
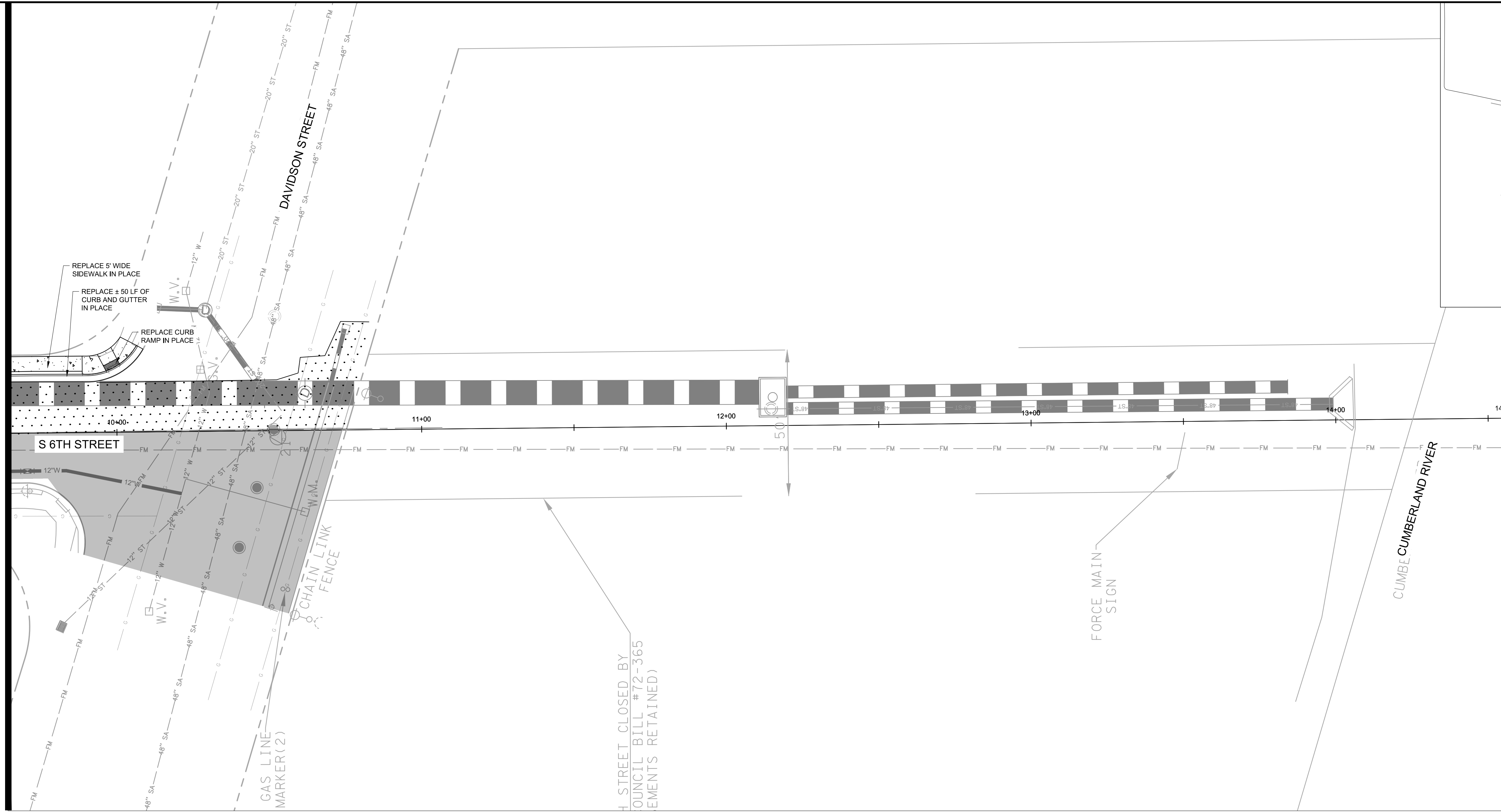


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MATCHLINE SEE SHEET C5-03



HATCH LEGEND	
	FULL DEPTH ASPHALT PAVEMENT (METRO PUBLIC WORKS ST-252B)
	CONCRETE SIDEWALK (METRO PUBLIC WORKS ST-210)
	1.5" MILL AND OVERLAY

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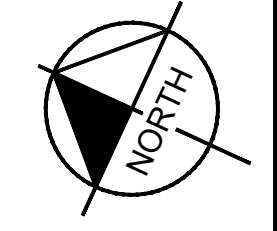
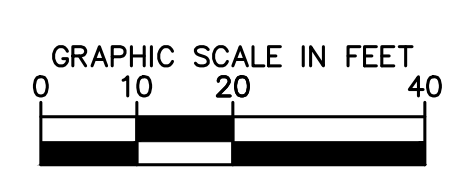
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ROADWAY PLAN AND PROFILE - S 6TH STREET

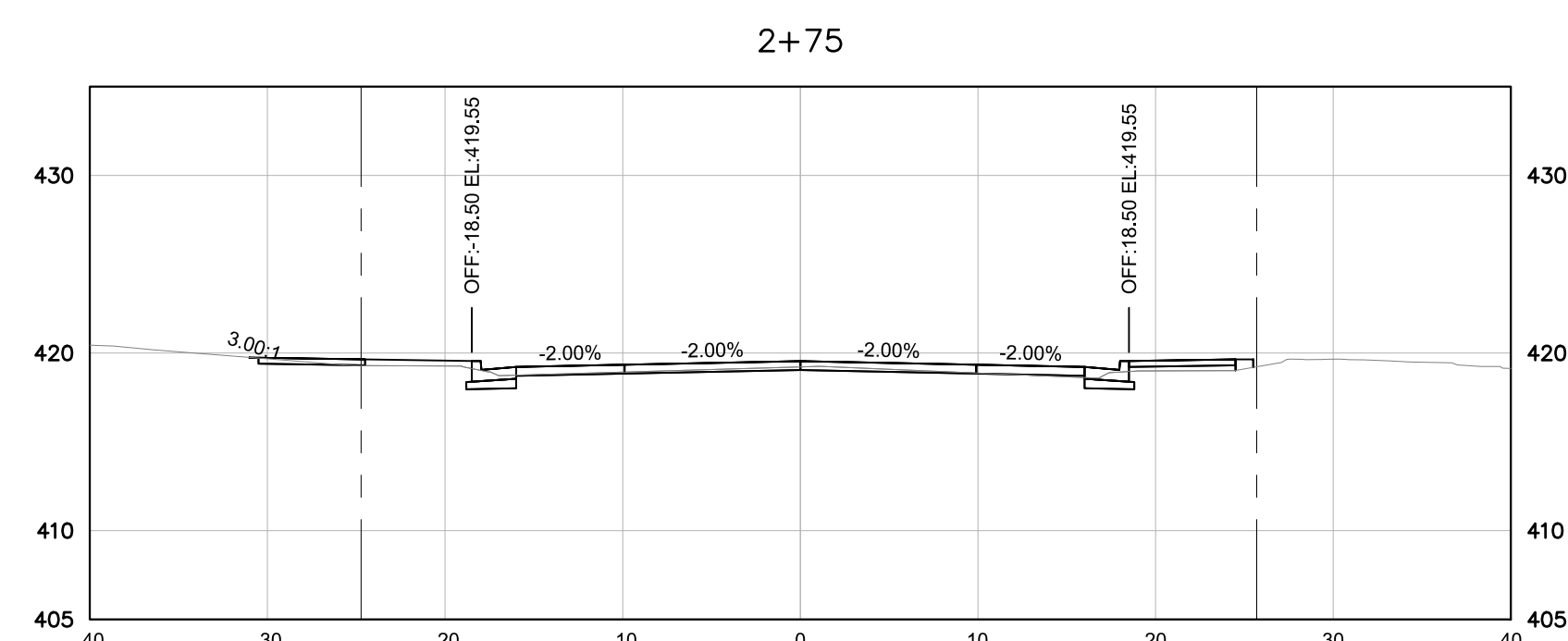
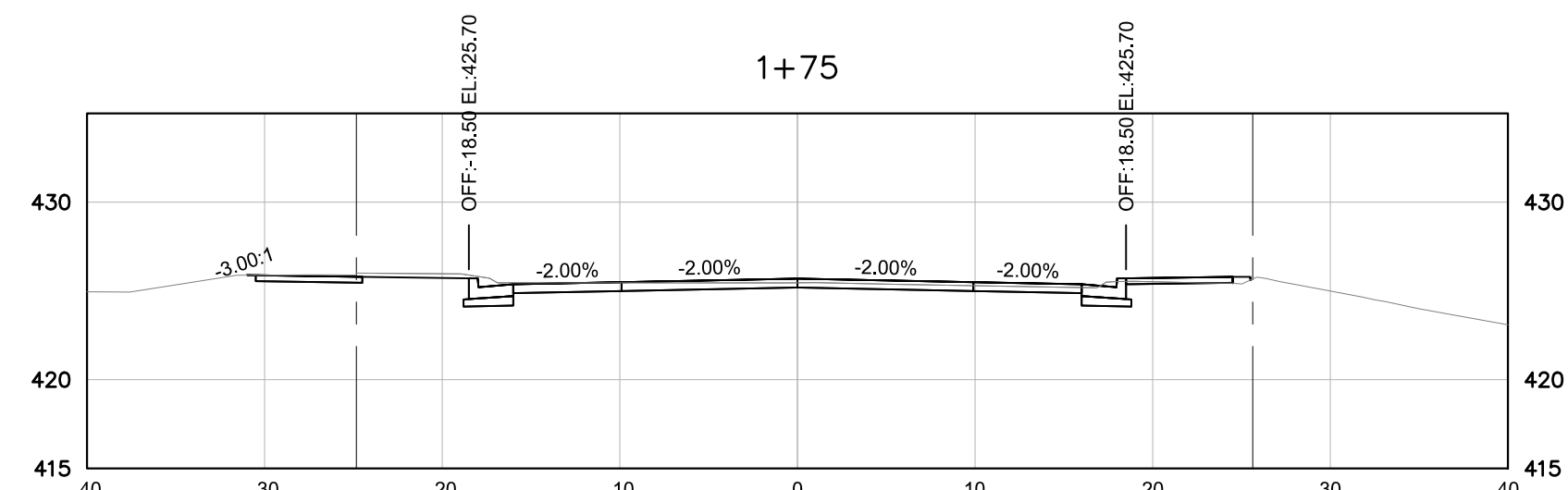
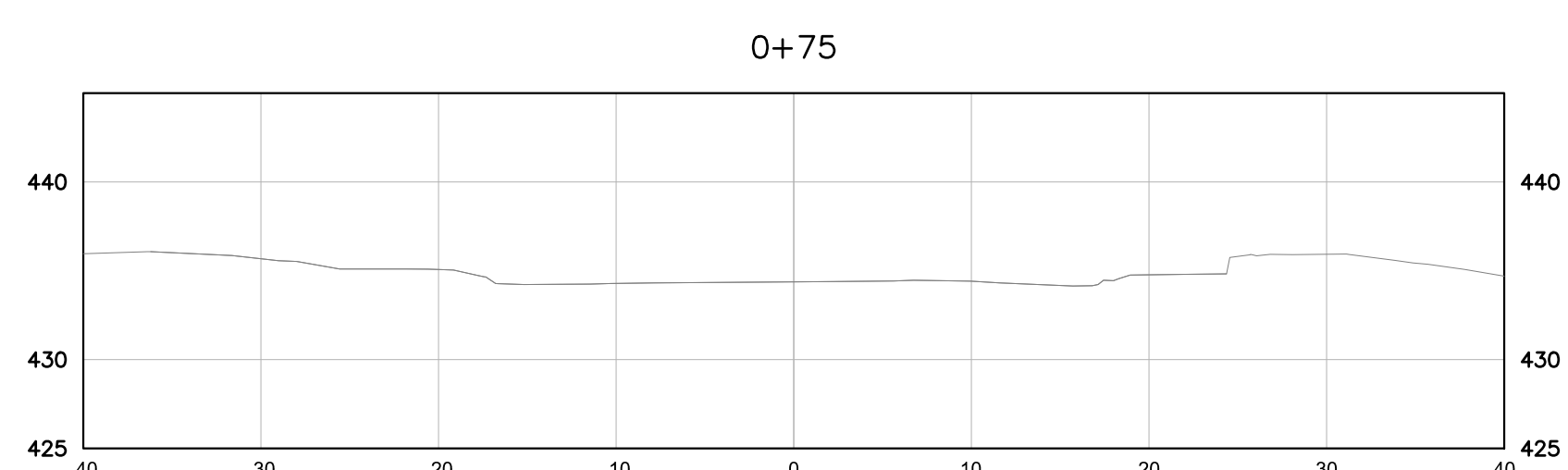
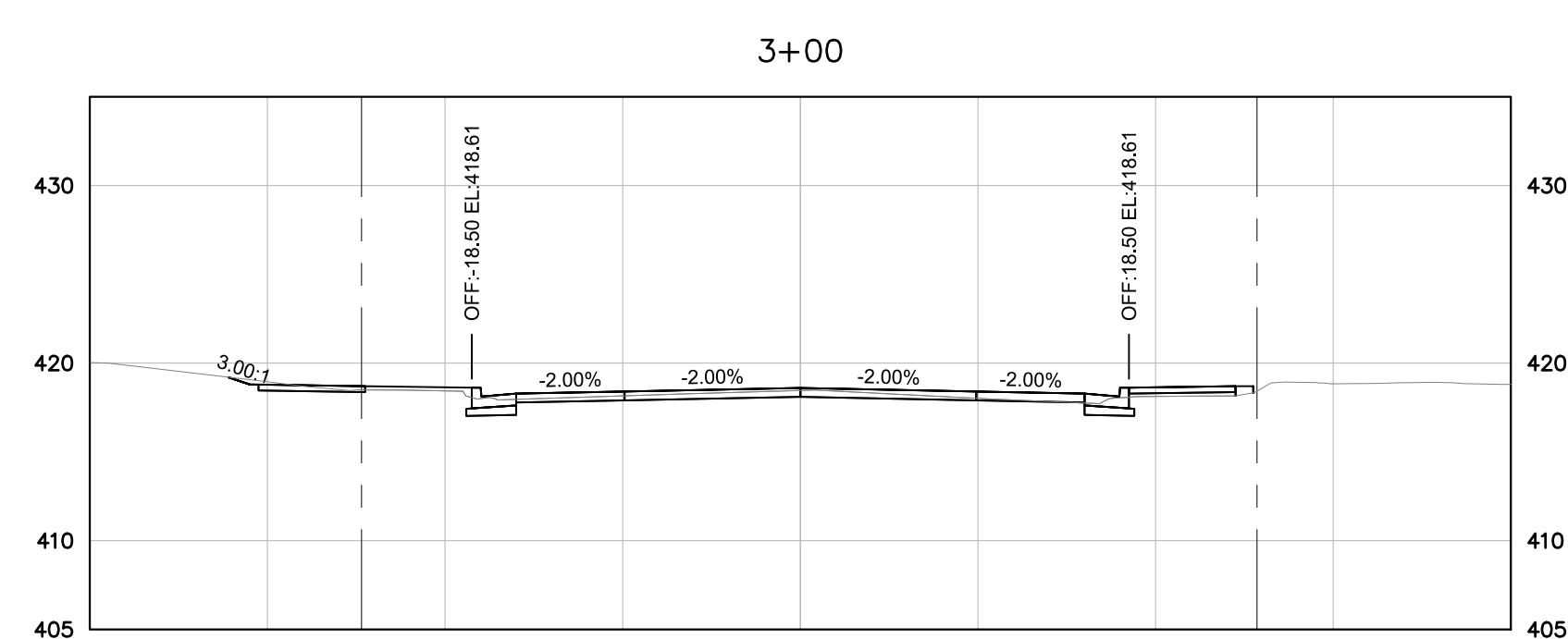
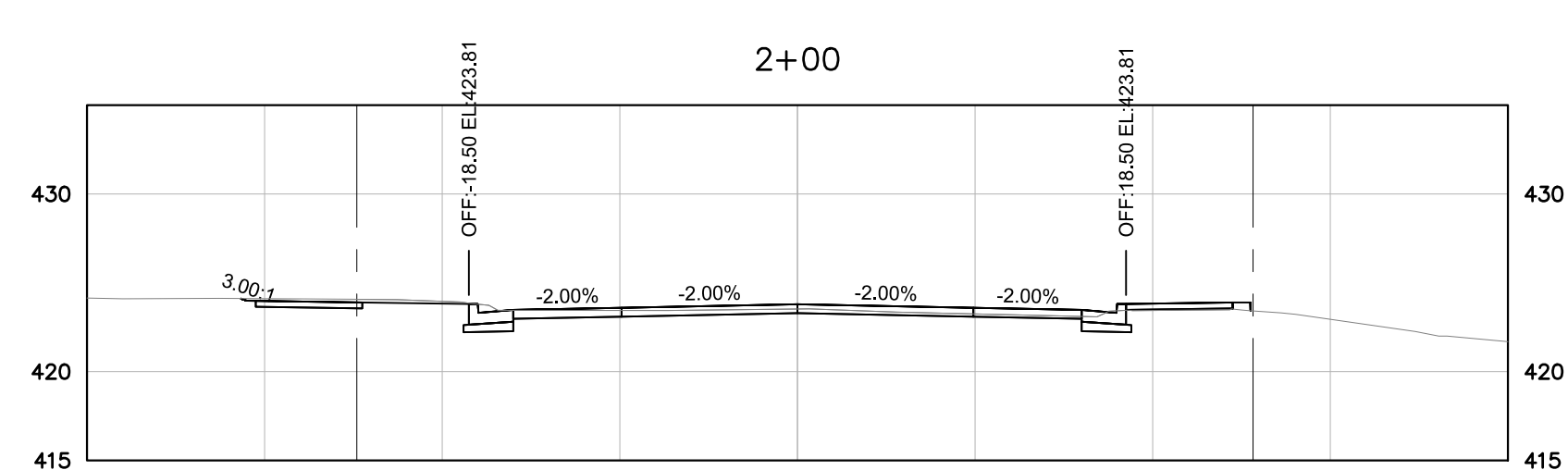
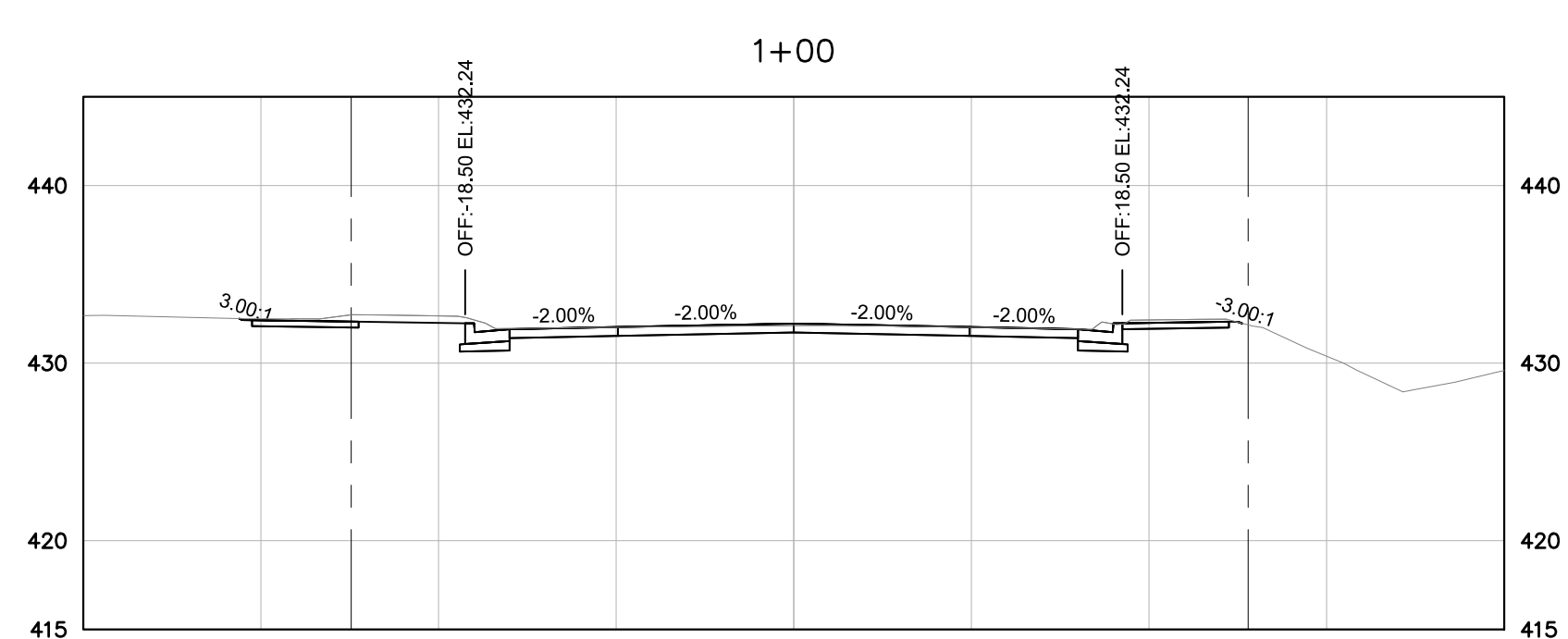
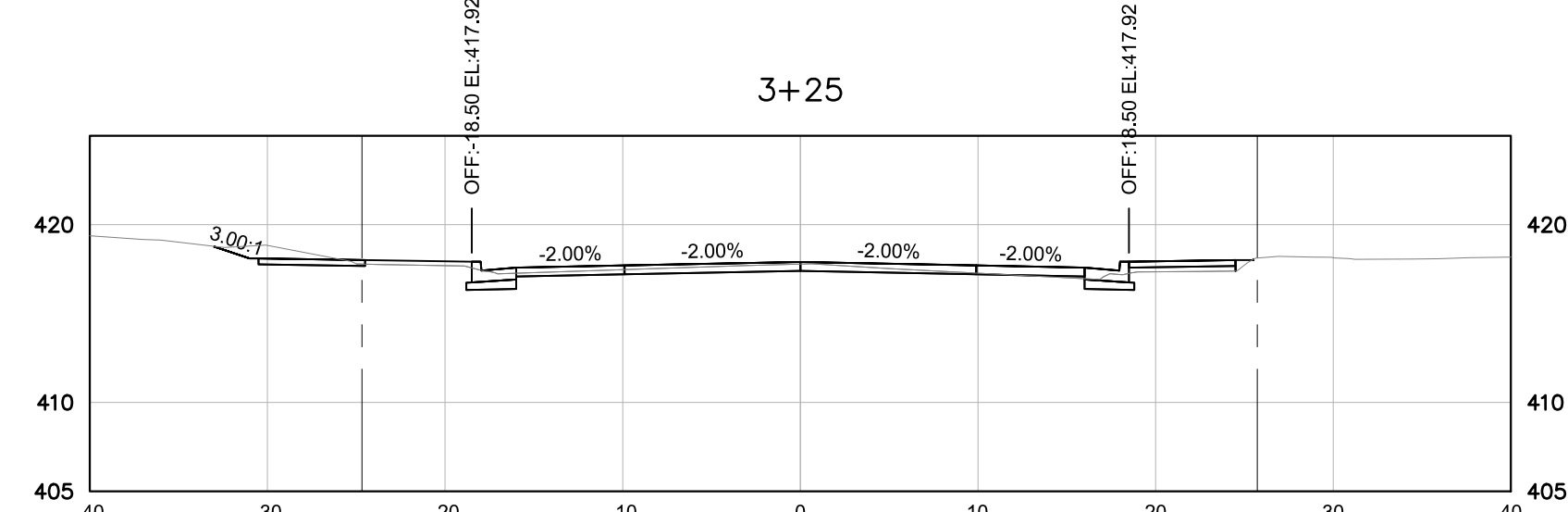
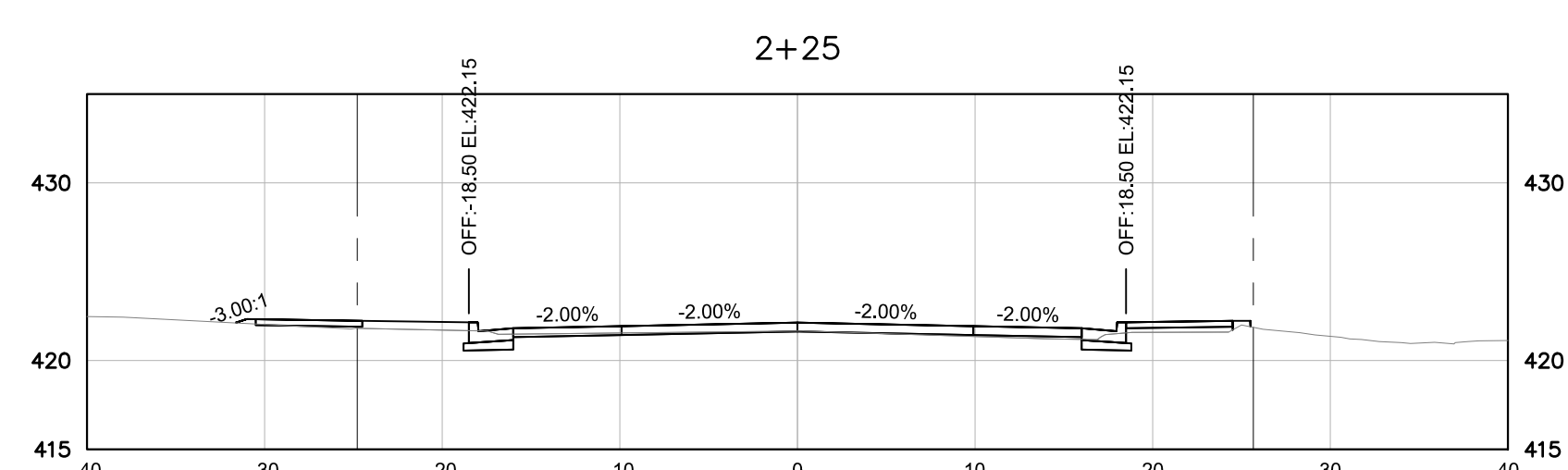
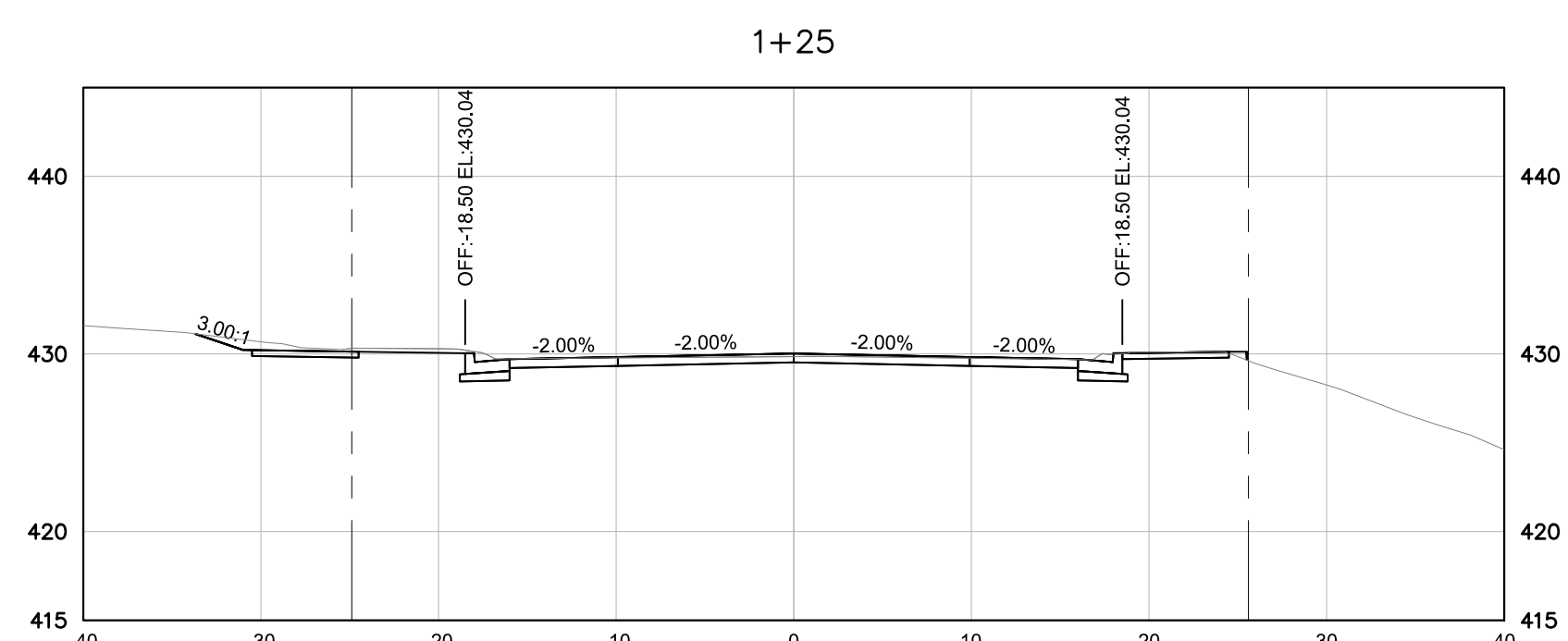
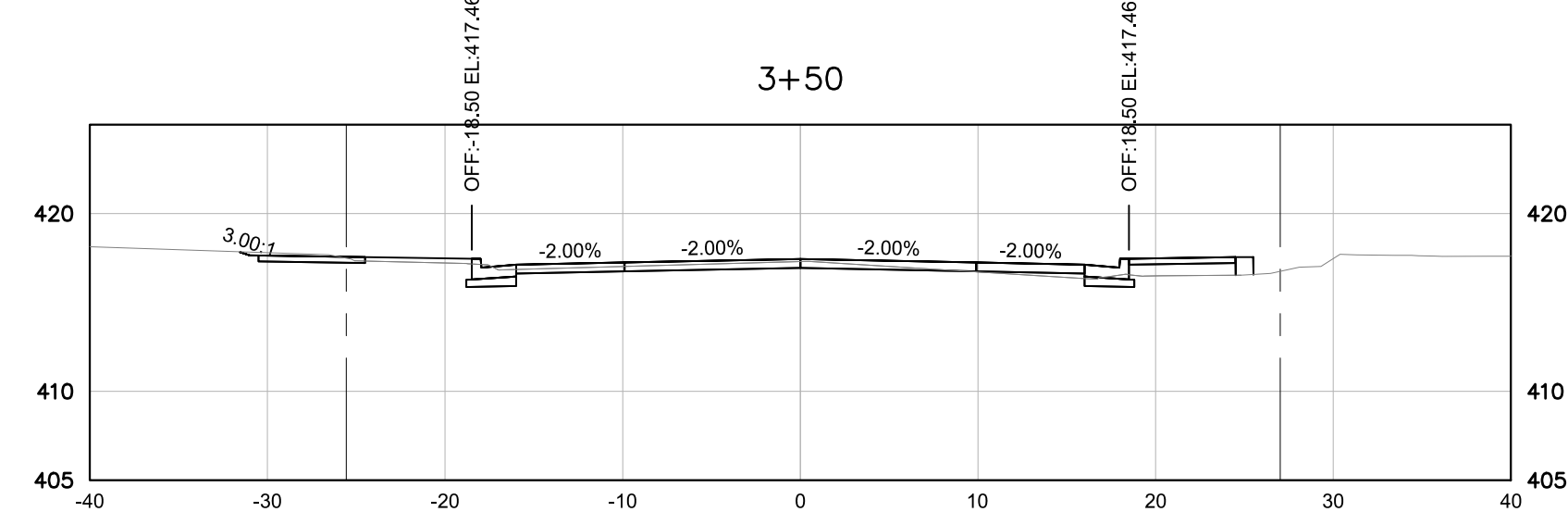
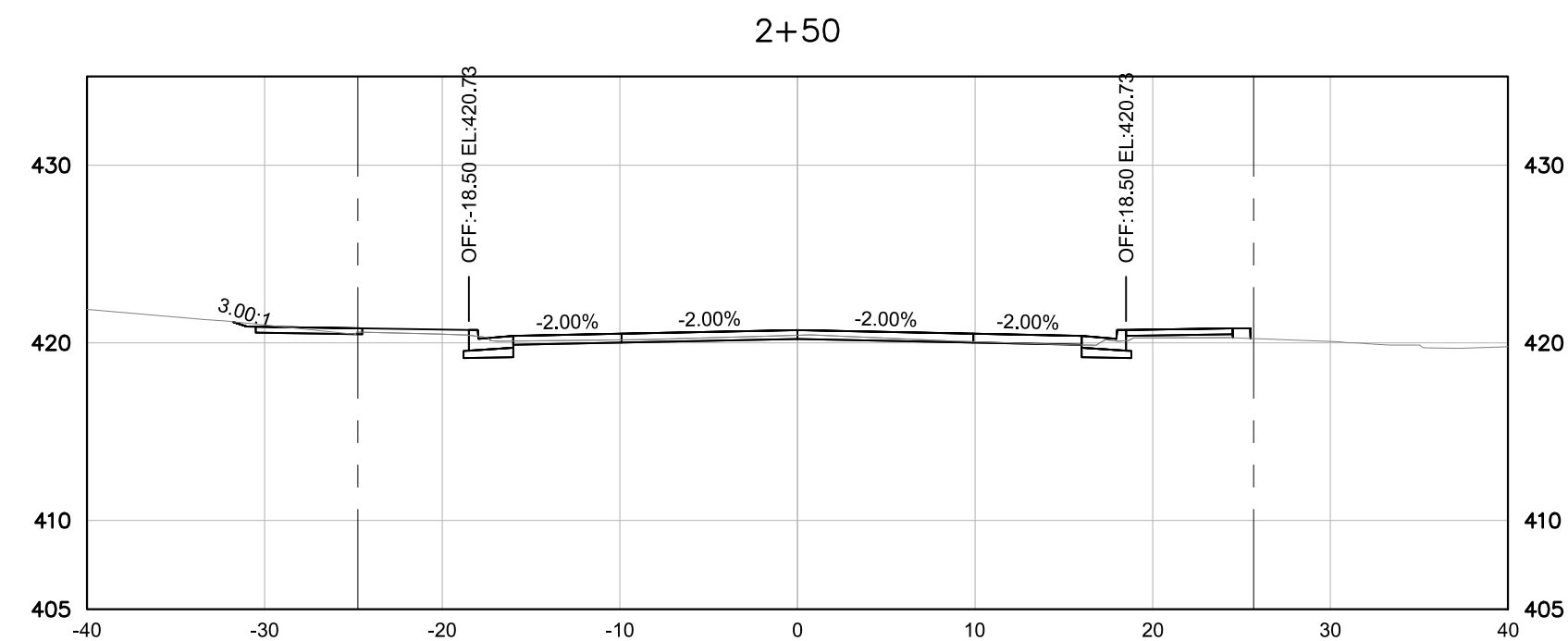
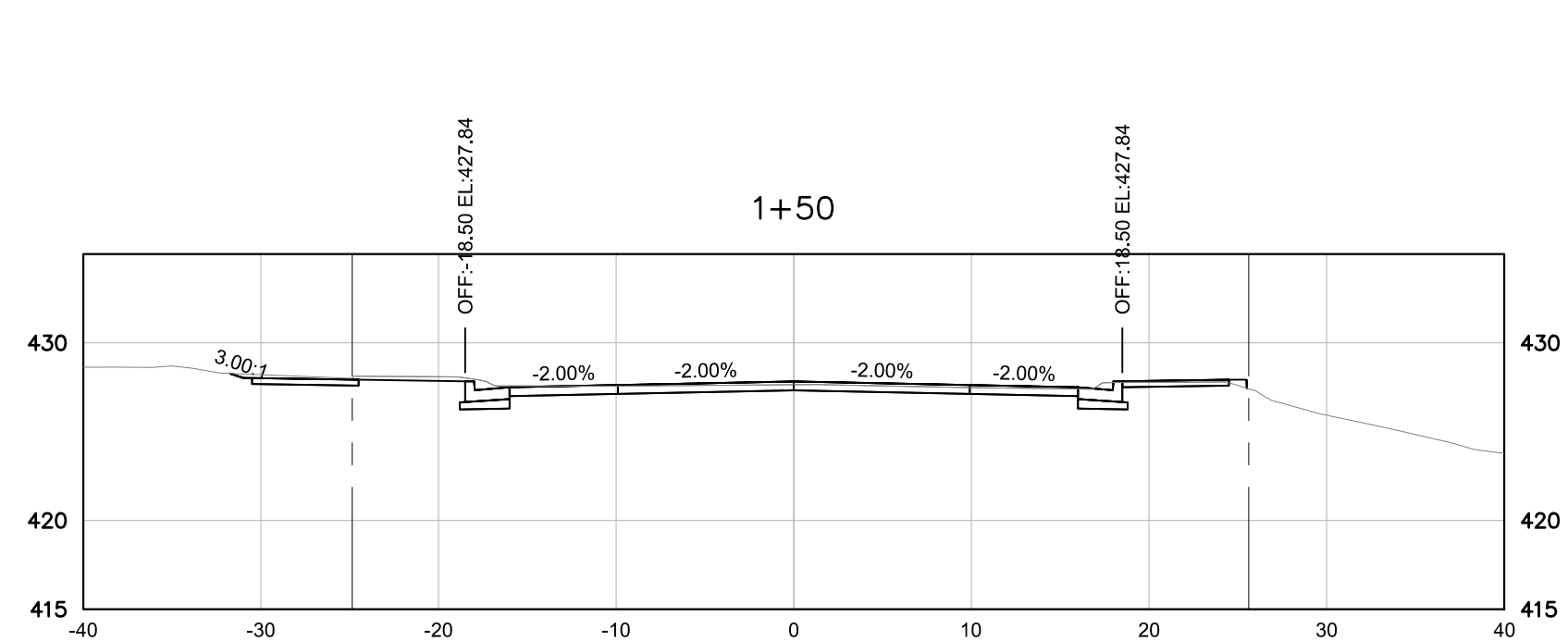
SHEET NUMBER
C5-04

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S. 6TH STREET CROSS SECTIONS

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—	EXISTING GRADE SURFACE
- - -	EXISTING ROW
- · - · -	PROPOSED ROW

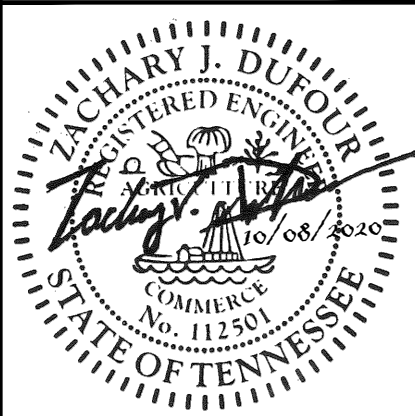


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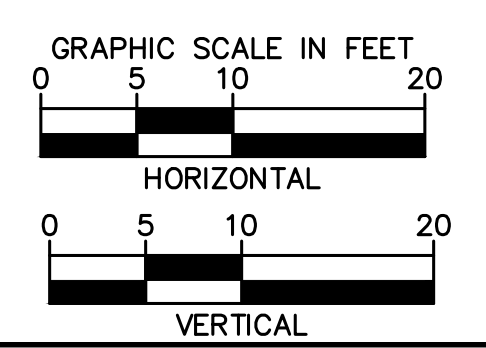


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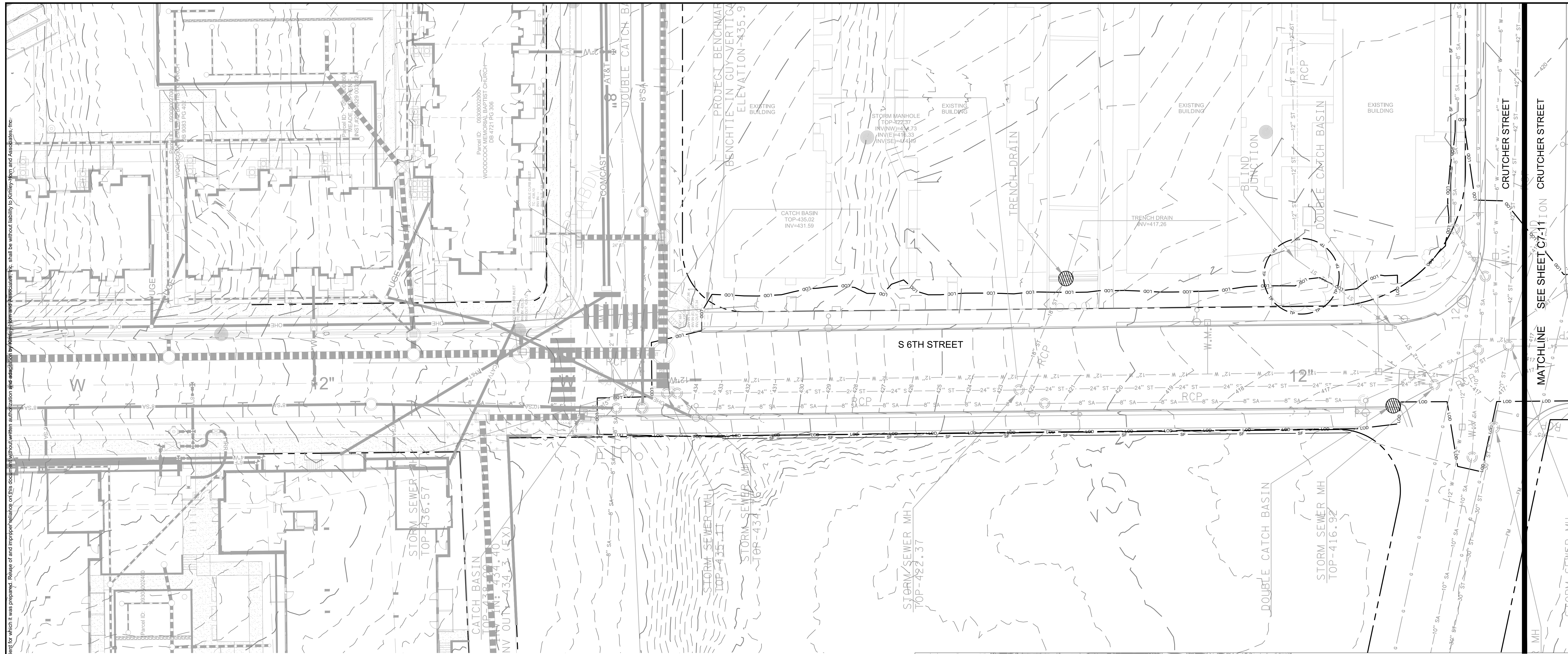
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DRAWN BY:	LEB
CHECKED BY:	ZJD
DATE:	10/08/2020
KIMLEY-HORN PROJECT NO. 118109016	

S 6TH STREET CROSS SECTIONS
SHEET NUMBER
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EROSION CONTROL NOTES

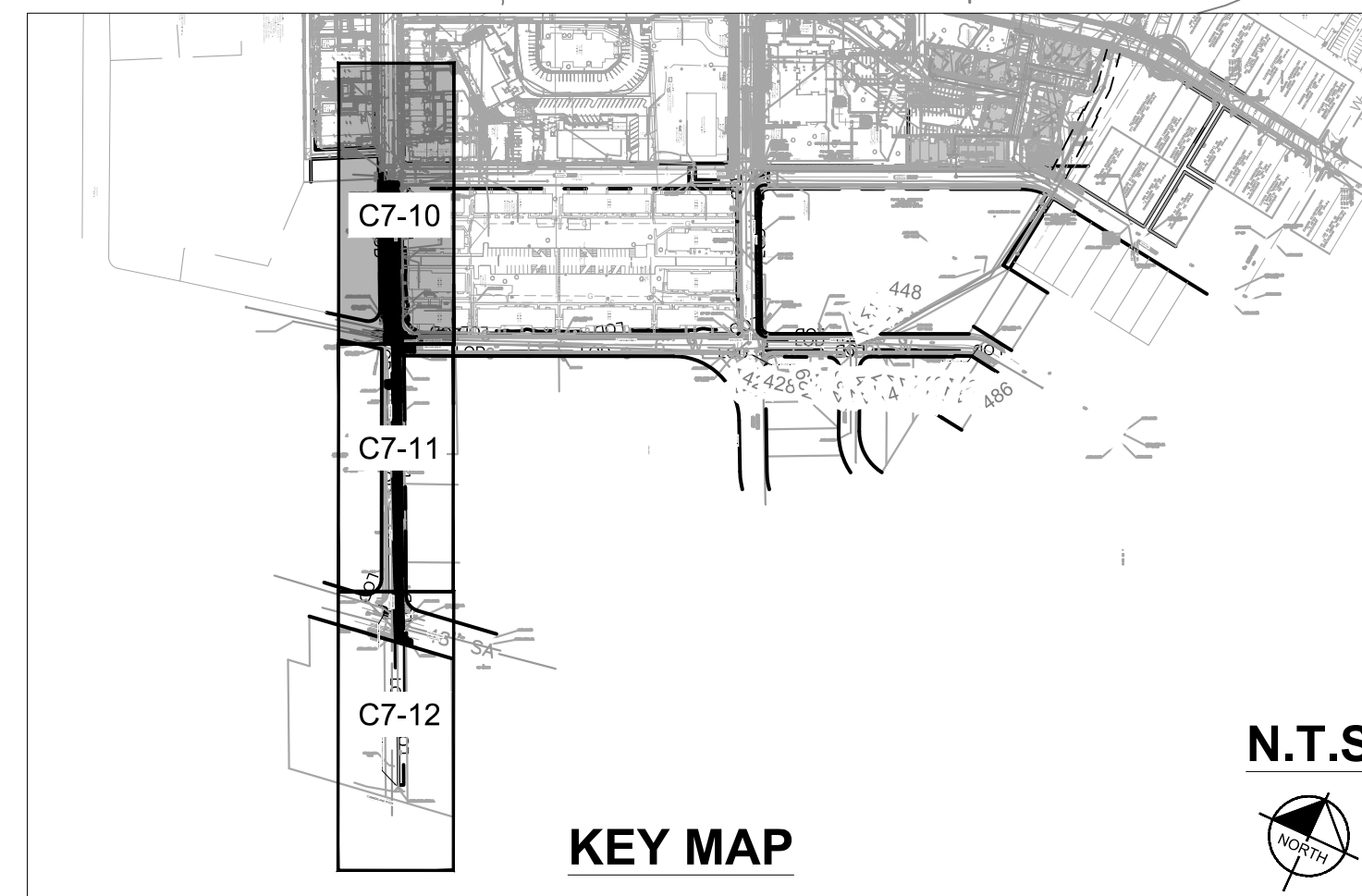
1. PERIMETER EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO GRADING.
2. STOCKPILED TOPSOIL OR FILL MATERIAL IS TO BE TREATED SO THE SEDIMENT RUN-OFF WILL NOT CONTAMINATE SURROUNDING AREAS OR ENTER NEARBY STREAMS. STOCK PILE LOCATIONS SHALL BE COORDINATED WITH THE ENGINEER PRIOR TO GRADING ACTIVITIES. EROSION & SEDIMENT CONTROL PRACTICE SHALL BE INSTALLED PRIOR TO STOCKPILE OPERATIONS.
3. ANY SITE USED FOR DISPOSAL AND/OR STOCKPILE OF ANY MATERIAL SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEE THAT ALL REQUIRED PERMITS ARE SECURED FOR EACH PROPERTY UTILIZED. A COPY OF THE APPROVED PERMIT MUST BE PROVIDED TO THE INSPECTOR PRIOR TO COMMENCEMENT OF WORK ON ANY PROPERTY. FAILURE TO DO SO MAY RESULT IN THE CONTRACTOR REMOVING ANY ILLEGALLY PLACED MATERIAL AT HIS OWN EXPENSE.
4. CONSTRUCT SILT BARRIERS AND OTHER PERIMETER CONTROL MEASURES BEFORE BEGINNING GRADING OPERATIONS.
5. MULCH AND SEED ALL DISTURBED AREAS AS SOON AS POSSIBLE AFTER FINAL GRADING IS COMPLETED (WITHIN 15 DAYS OF ACHIEVED FINAL GRADES) UNLESS OTHERWISE INDICATED. CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION. STEEP SLOPES (GREATER THAN 3:1) SHALL BE STABILIZED WITHIN 7 DAYS OF FINAL GRADING.
6. REMOVE SEDIMENT FROM ALL DRAINAGE STRUCTURES BEFORE ACCEPTANCE BY LOCAL GOVERNING AGENCY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
7. CLEAN SILT BARRIERS WHEN THEY ARE APPROXIMATELY 50% FILLED WITH SEDIMENT OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. SILT BARRIERS SHALL BE REPLACED AS EFFECTIVENESS IS SIGNIFICANTLY REDUCED OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
8. REMOVE THE TEMPORARY EROSION AND WATER POLLUTION CONTROL DEVICES ONLY AFTER A SOLID STAND OF GRASS HAS BEEN ESTABLISHED ON GRADED AREAS AND, WHEN IN THE OPINION OF THE OWNER'S REPRESENTATIVE, THEY ARE NO LONGER NEEDED.
9. PROVIDE TEMPORARY CONSTRUCTION ACCESS(ES) AT THE POINT(S) WHERE CONSTRUCTION VEHICLES EXIT THE CONSTRUCTION AREA. MAINTAIN PUBLIC ROADWAYS FREE OF TRACKED MUD AND DIRT.
10. DO NOT DISTURB VEGETATION OR REMOVE TREES EXCEPT WHEN NECESSARY FOR GRADING PURPOSES.
11. STABILIZATION MEASURES (SEED & MULCH, TRIM WHERE INDICATED) SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, EXCEPT IN THE FOLLOWING TWO CASES.
 - 11.a. WHERE THERE IS SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE OR WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 15 DAYS. TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF SITE.
 - 11.b. ALL EROSION CONTROL MEASURES SHALL BE CHECKED TWICE WEEKLY DURING PROLONGED RAINFALL DAILY CHECKING IS NECESSARY. DOCUMENTATION OF ALL CHECKS AND CORRECTIVE MEASURES SHALL BE KEPT AT THE PROJECT. A MONITORING REPORT CAN BE FOUND IN THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK.
12. CONTRACTOR TO PROVIDE AN AREA FOR CONCRETE WASH DOWN AND EQUIPMENT REFUELING IN ACCORDANCE WITH TDEC'S STANDARDS. CONTRACTOR TO COORDINATE EXACT LOCATION WITH NPDES DEPARTMENT DURING PRECONSTRUCTION MEETING. CONTROL OF OTHER SITE WASTES SUCH AS MAY CAUSE ADVERSE IMPACTS TO WATER QUALITY IS ALSO REQUIRED BY THE GRADING PERMITEE.
13. SEE ADDITIONAL EROSION CONTROL NOTES ON SHEET C0-01.
14. INLET PROTECTION WITHIN THE ROW SHOULD BE REMOVED AS SOON AS POSSIBLE AFTER WORK HAS BEEN COMPLETED AND THE DRAINAGE AREA HAS BEEN STABILIZED.

EROSION CONTROL CONSTRUCTION SEQUENCE

- PHASE I:**
- CONTRACTOR TO SCHEDULE AND ATTEND PRE-CONSTRUCTION MEETING WITH METRO WATER SERVICES.
 - CONTRACTOR TO INSTALL CONSTRUCTION EXIT, SILT FENCE, TREE PROTECTION FENCING, COIR WATTLE, INLET PROTECTION ON EXISTING INLETS, AND CONCRETE WASHOUTS. CLEAR ONLY THE ABSOLUTE MINIMUM AREA NECESSARY TO INSTALL THESE PERIMETER BMPs.
 - AFTER PERIMETER BMPs ARE INSTALLED, CONTRACTOR SHALL SCHEDULE AN INSPECTION BY EPSC AND METRO WATER SERVICES.
 - CONTRACTOR MUST PASS EROSION INSPECTION AND BE GRANTED A GRADING PERMIT.
 - PERIMETER MEASURES ARE TO BE IN PLACE BEFORE GRADING CAN BE DONE.
 - CONTRACTOR WILL BE REQUIRED TO CONTINUOUSLY MAINTAIN AND REPAIR ALL ONSITE EROSION CONTROL BMPs DURING PROJECT CONSTRUCTION.
- PHASE II:**
- BEGIN GRADING THE SITE.
 - TEMPORARILY STABILIZE, THROUGHOUT CONSTRUCTION, IMMEDIATELY FOLLOWING THE COMPLETION OF THE MOST RECENT LAND DISTURBING/GRADING ACTIVITY.
 - IMMEDIATELY PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
 - INSTALL PROPOSED UTILITIES INCLUDING PROPOSED STORM INLETS WITH PROTECTION.
 - CONSTRUCT REMAINING SITE ACCORDING TO APPROVED PLANS, OR AS INSTRUCTED BY THE EROSION CONTROL INSPECTOR.
 - PERMANENTLY STABILIZE SITE.
 - UPON PERMANENT SITE STABILIZATION, REMOVE SILT FENCE, TREE PROTECTION, AND ALL OTHER TEMPORARY EROSION CONTROL DEVICES.
 - FINISH INSTALLING PERMANENT STORMWATER BMPs SHOWN ON PHASE 2 EROSION CONTROL PLANS.

METRO STORMWATER NOTES

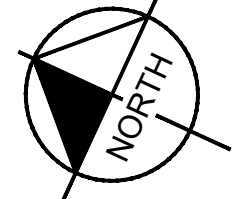
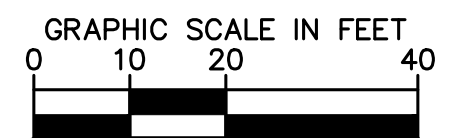
- FEMA NOTE:**
THIS LOT DOES NOT LIE IN AN AREA DESIGNATED AS A SPECIAL FLOOD HAZARD AREA ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP #47037C0242H, EFFECTIVE 04/05/2017.
- CONSTRUCTION SCHEDULE:**
1. PRE-CONSTRUCTION MEETING
 2. INSTALLATION OF EROSION CONTROL MEASURES
 3. EROSION INSPECTION BY EPSC AND METRO
 4. ISSUANCE OF GRADING PERMIT
 5. CONSTRUCTION
- CONSTRUCTION SHALL BE COMPLETED WITHIN 12 MONTHS OF THE GRADING PERMIT BEING ISSUED. IF CONSTRUCTION IS NOT COMPLETE IN THAT AMOUNT OF TIME, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO APPLY FOR AN EXTENSION OF THE GRADING PERMIT.
- TDEC NOTICE OF COVERAGE NOTE:**
THIS PROJECT DOES DISTURB MORE THAN 1 ACRE AND IS REQUIRED TO APPLY FOR A NOTICE OF COVERAGE UNDER THE TENNESSEE GENERAL CONSTRUCTION PERMIT FROM TDEC.
- TENNESSEE CONSTRUCTION GENERAL PERMIT - TBD
- THE TOTAL DISTURBED AREA IS ±1.23 AC ACRES.



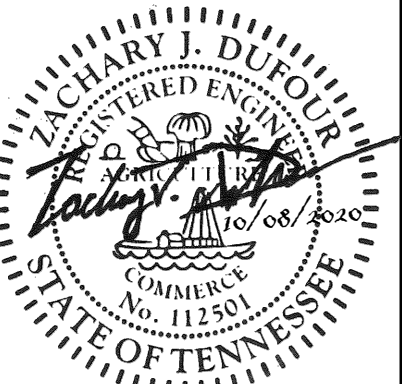
EROSION CONTROL LEGEND

- IP INLET PROTECTION - REFER TO DETAIL SHEET C3-50
- SF SILT FENCE - REFER TO DETAIL SHEET C3-50
- EE EROSION EELS - REFER TO DETAIL SHEET C3-50
- MA EROSION CONTROL MATTING - CONTECH LANDLOK S2 OR APPROVED EQUAL. CONTRACTOR TO INSTALL ON ALL SLOPES 3(H):1(V) OR STEEPER - REFER TO DETAIL SHEET C3-50
- CE CONSTRUCTION EXIT - REFER TO DETAIL SHEET C3-50
- TP TREE PROTECTION FENCE / HIGH VISIBILITY FENCE - REFER TO DETAIL SHEET C3-50
- LD LIMITS OF DISTURBANCE
- CS CONSTRUCTION SIGN

BID SET



CAYCE UTILITY PHASE 1A
MDHA
NASHVILLE, TN

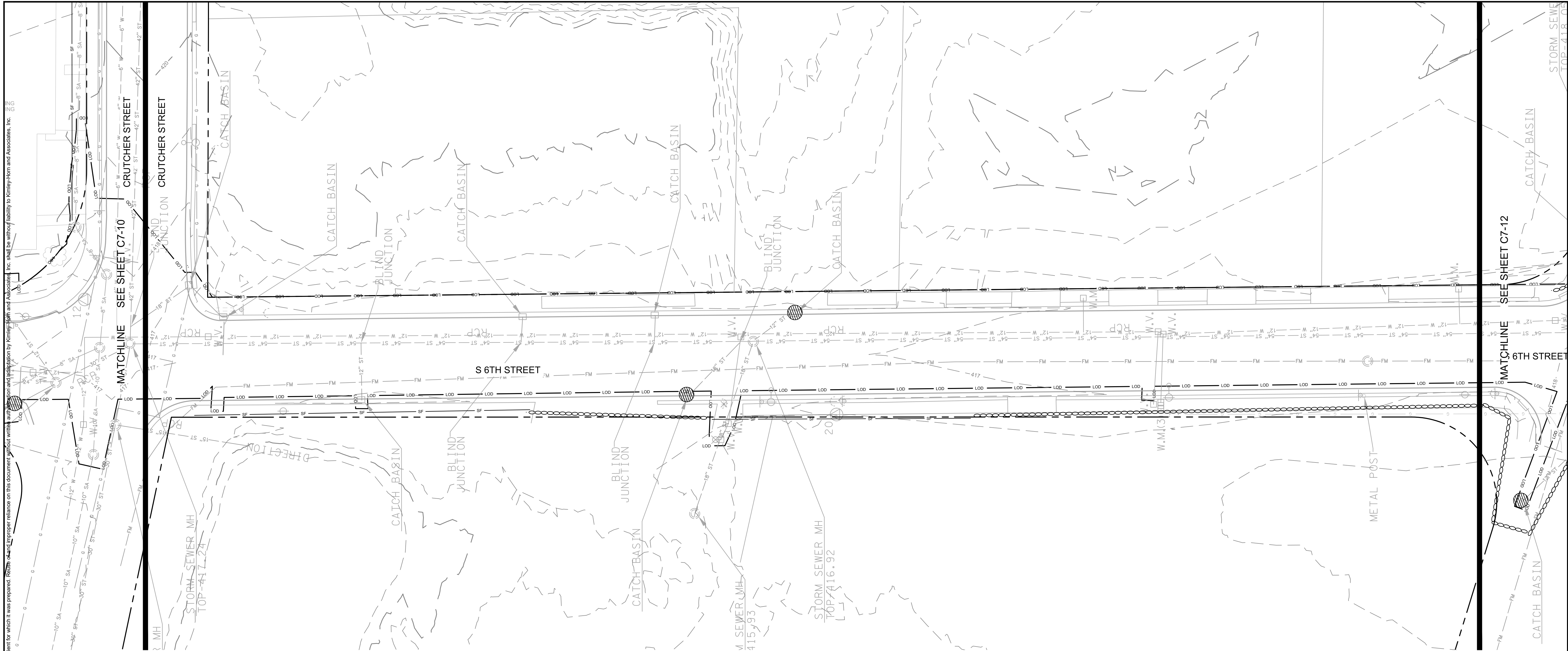


REVISIONS	DATE	BY								
No.	1	2	3	4	5	6	7	8	9	10
DESIGNED BY:	KFK									
DRAWN BY:	LEB									
CHECKED BY:	ZJD									
DATE:	10/08/2020									
KIMLEY-HORN PROJECT NO.:	1181091016									

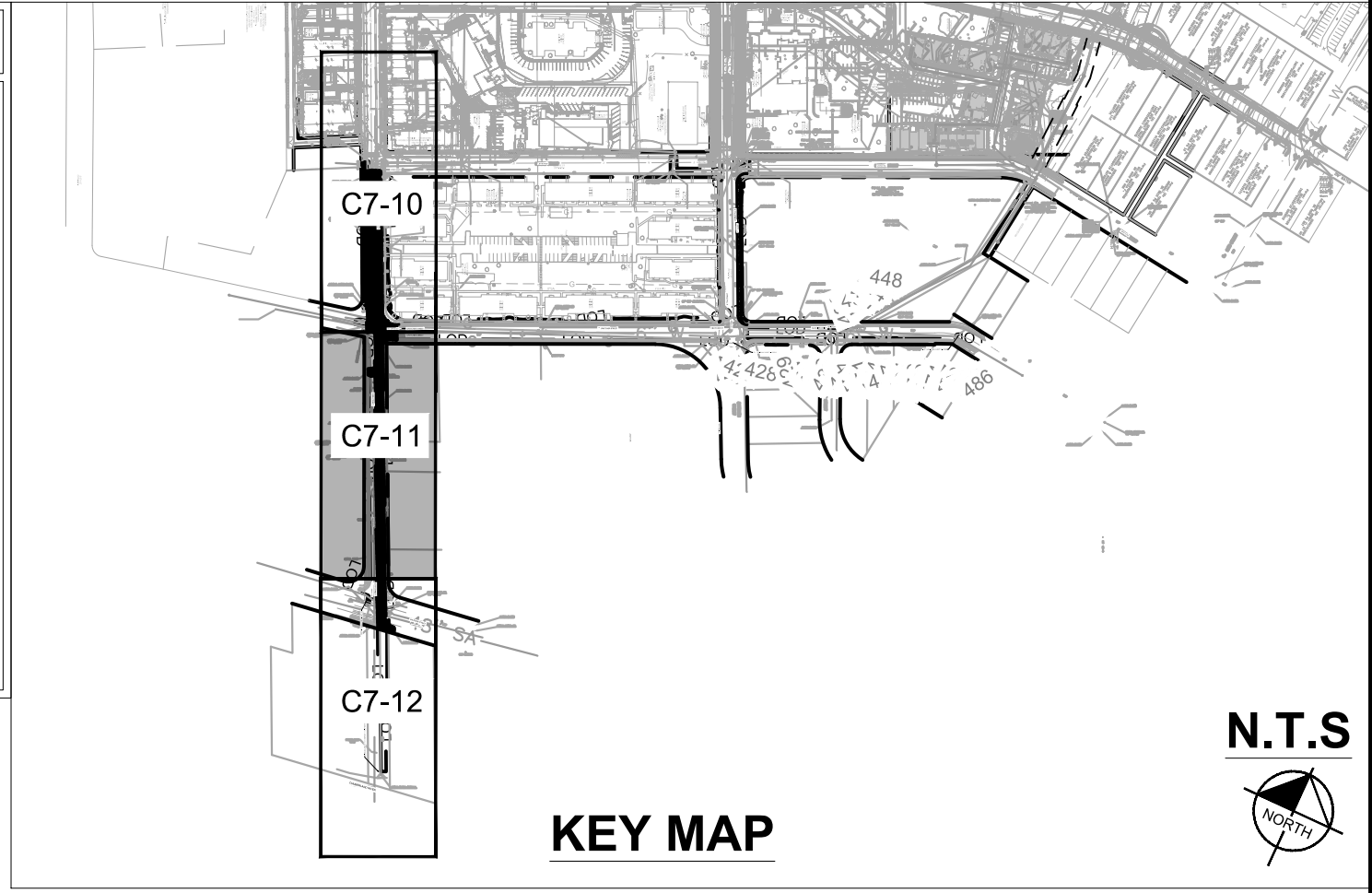
EROSION CONTROL PLAN - PHASE 1
 SHEET NUMBER
C7-10

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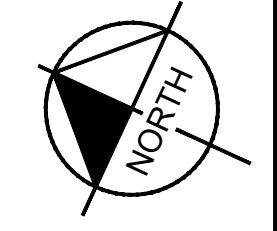
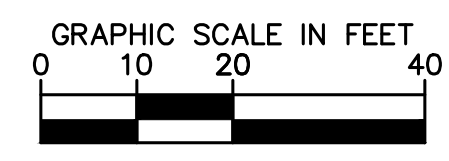
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	SILT FENCE - REFER TO DETAIL SHEET C3-50
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	CONSTRUCTION EXIT - REFER TO DETAIL SHEET C3-50
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	LIMITS OF DISTURBANCE
	CONSTRUCTION SIGN

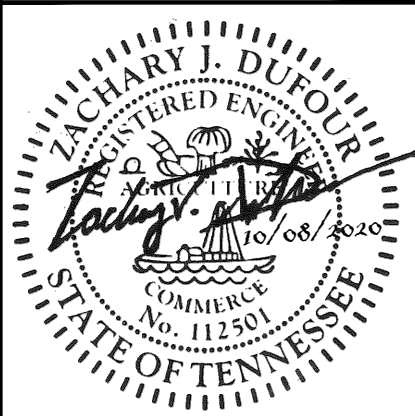


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 NASHVILLE, TN

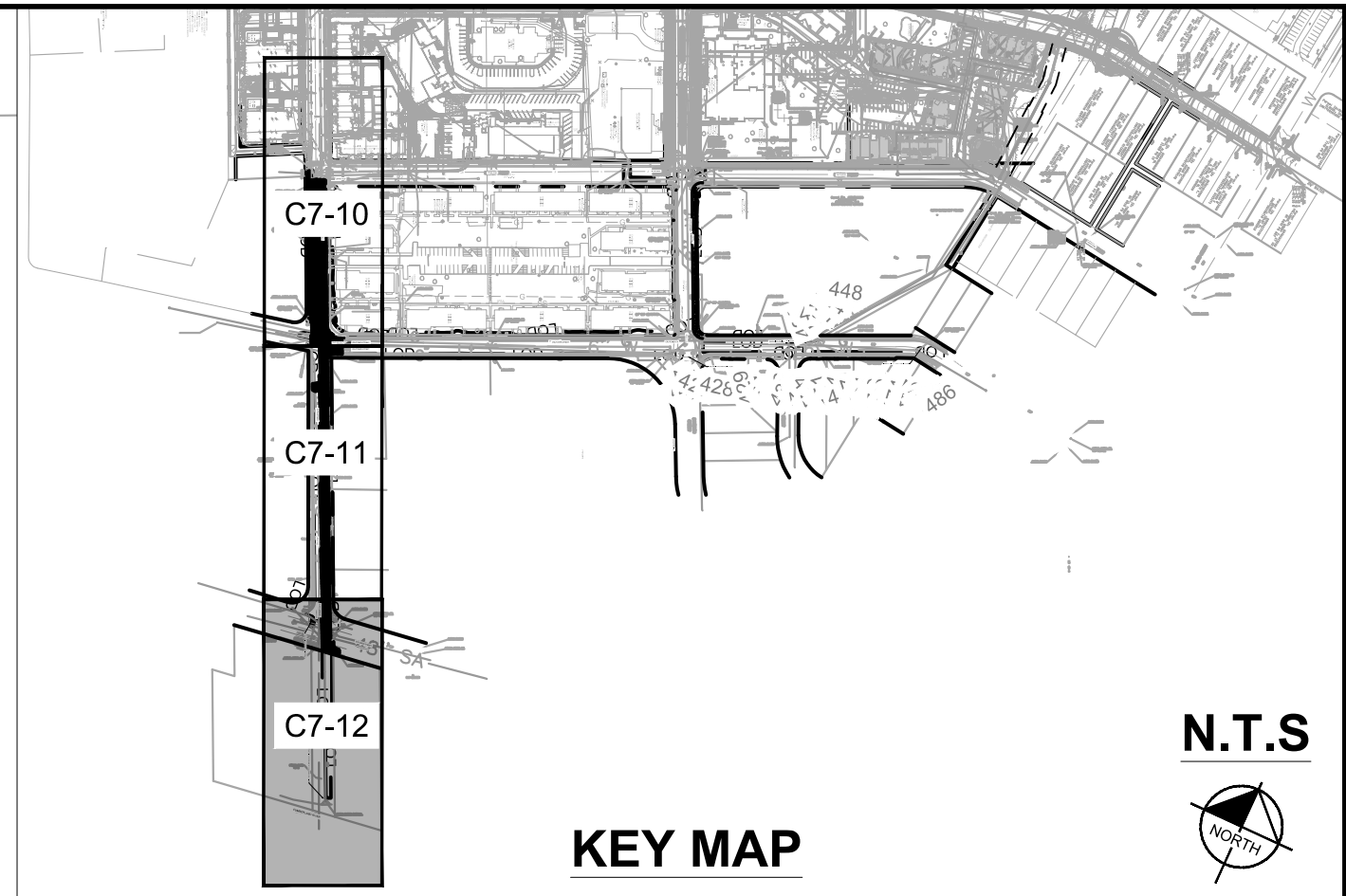
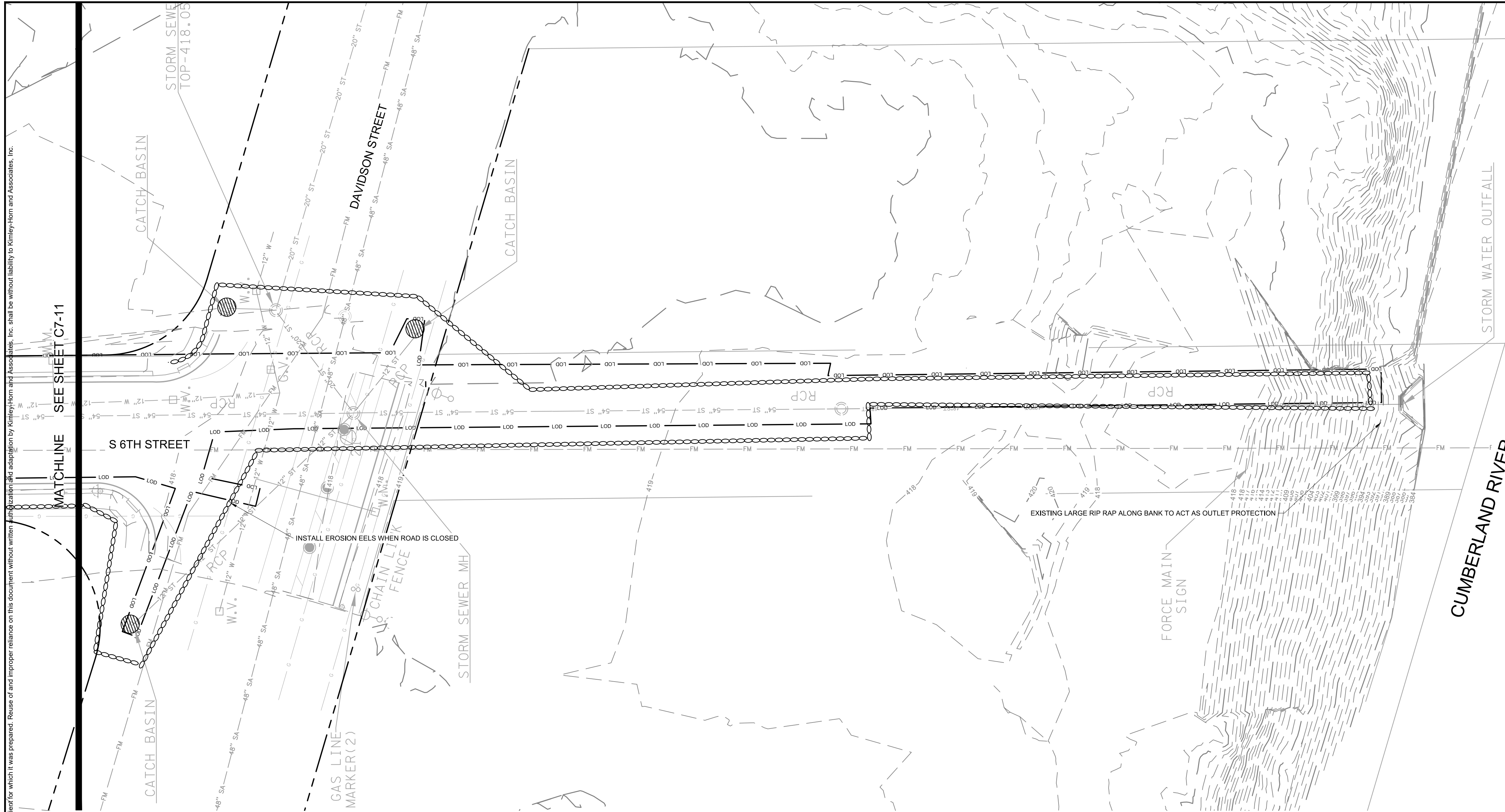


NO.	DATE	BY	REVISIONS
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DESIGNED BY: KKF
 DRAWN BY: LEB
 CHECKED BY: ZJD
 DATE: 10/08/2020
 KIMLEY-HORN PROJECT NO. 118109016

EROSION CONTROL PLAN - PHASE 1
 SHEET NUMBER **C7-11**

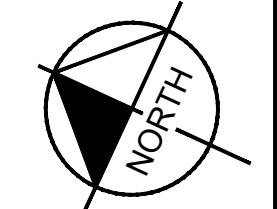
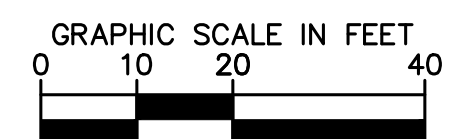
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EROSION CONTROL LEGEND

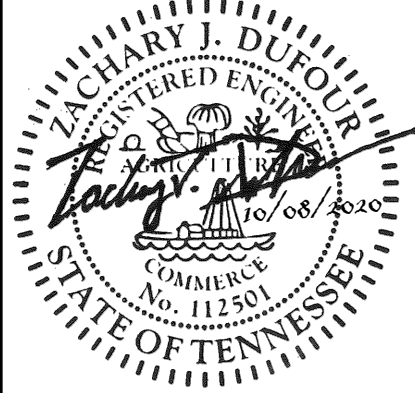
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	TP TREE PROTECTION FENCE / HIGH VISIBILITY FENCE - REFER TO DETAIL SHEET C3-50
	LOD LIMITS OF DISTURBANCE
	CONSTRUCTION SIGN

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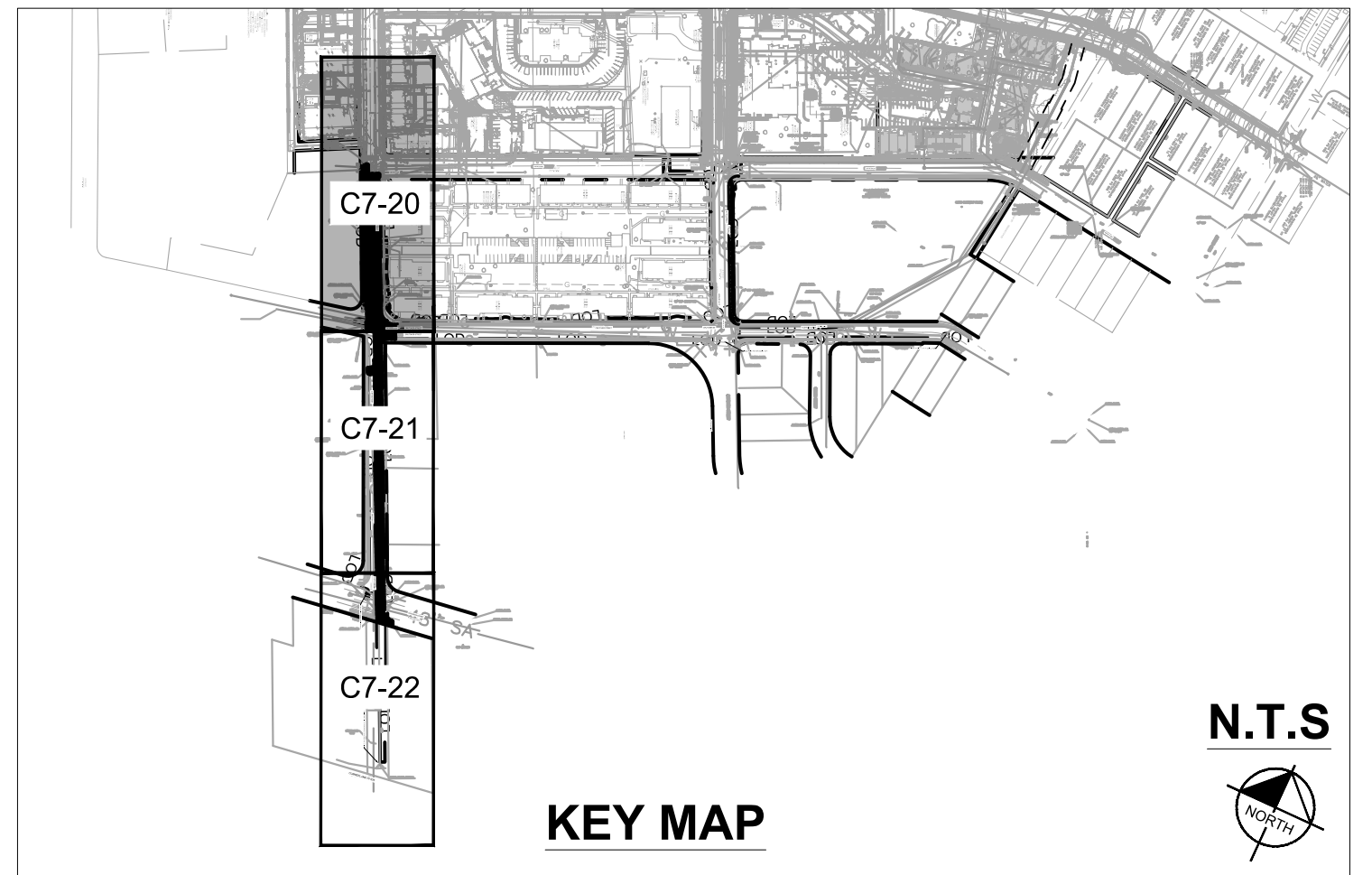
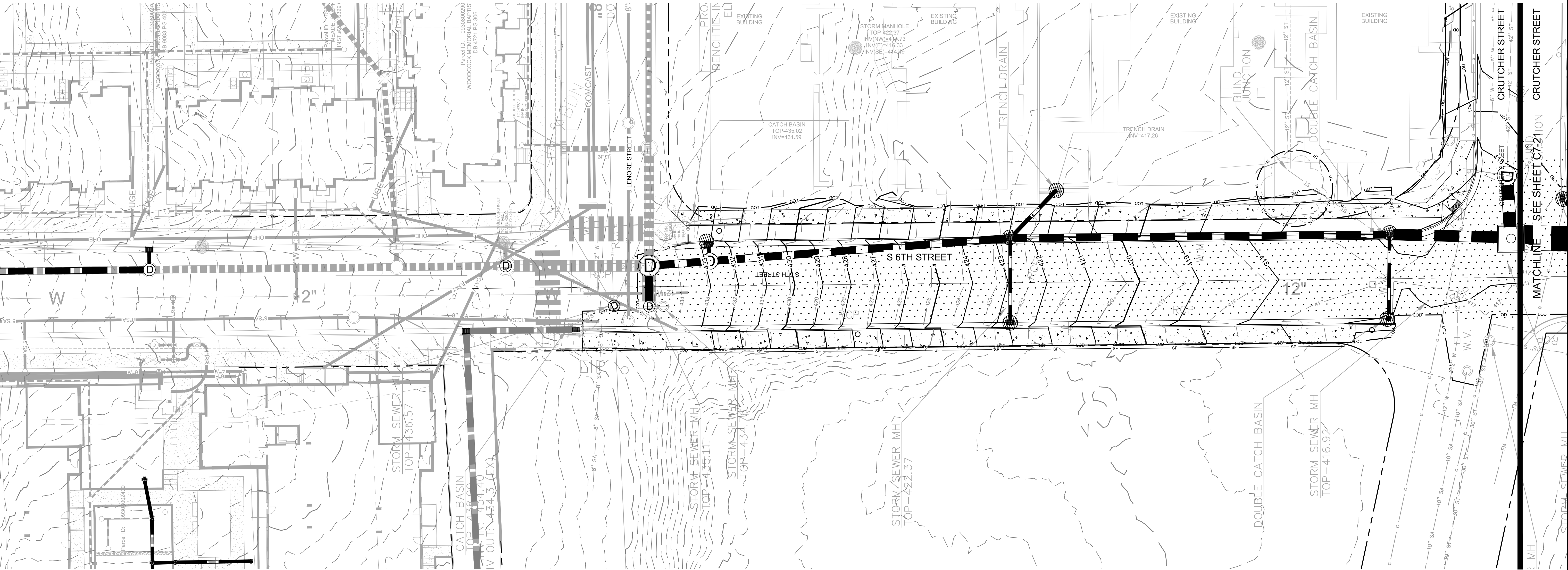


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DESIGNED BY: KKF
 DRAWN BY: LEB
 CHECKED BY: ZJD
 DATE: 10/08/2020
 KIMLEY-HORN PROJECT NO. 118109016

EROSION CONTROL PLAN - PHASE 1
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C7-12

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	LOD LIMITS OF DISTURBANCE
	CS CONSTRUCTION SIGN

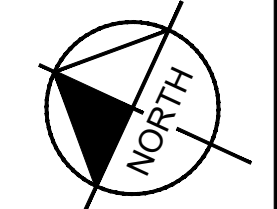
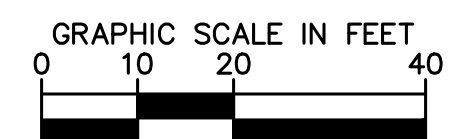


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DATE:	10/08/2020
KIMLEY-HORN PROJECT NO.	118109016

EROSION CONTROL PLAN - PHASE 2
 SHEET NUMBER
C7-20

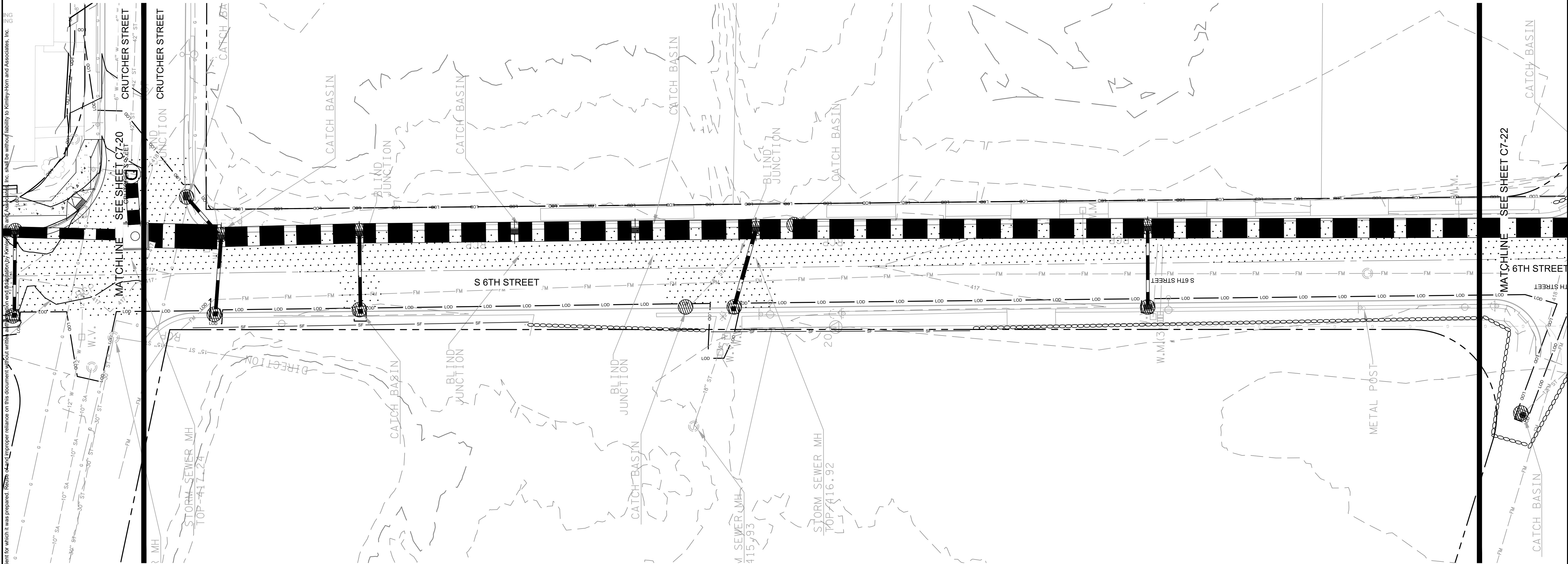
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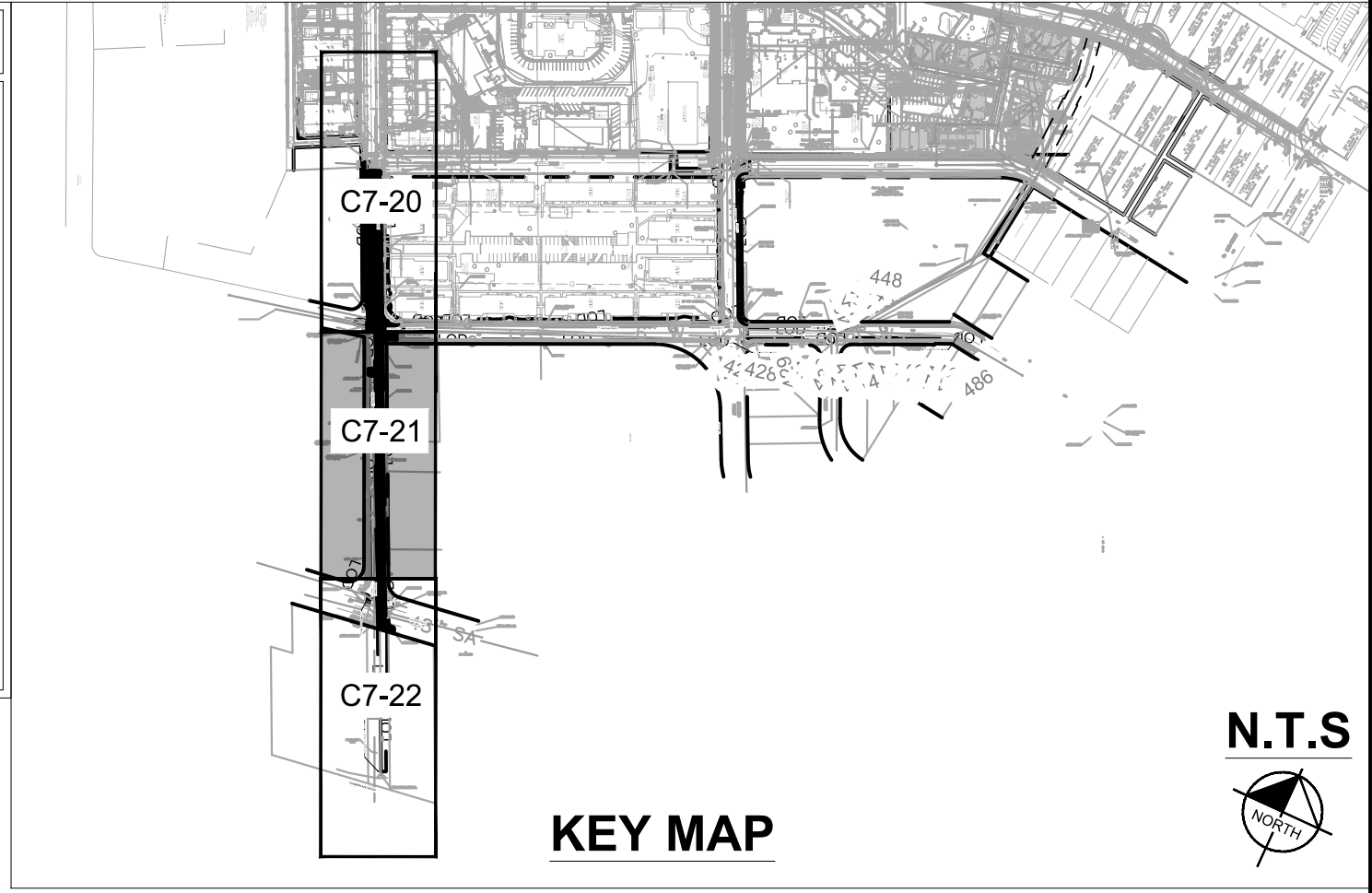
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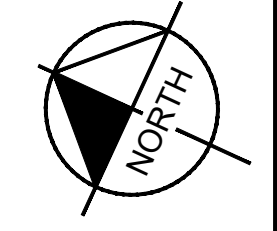
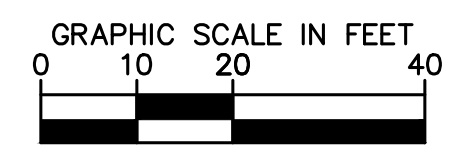
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	LOD LIMITS OF DISTURBANCE
	CS CONSTRUCTION SIGN



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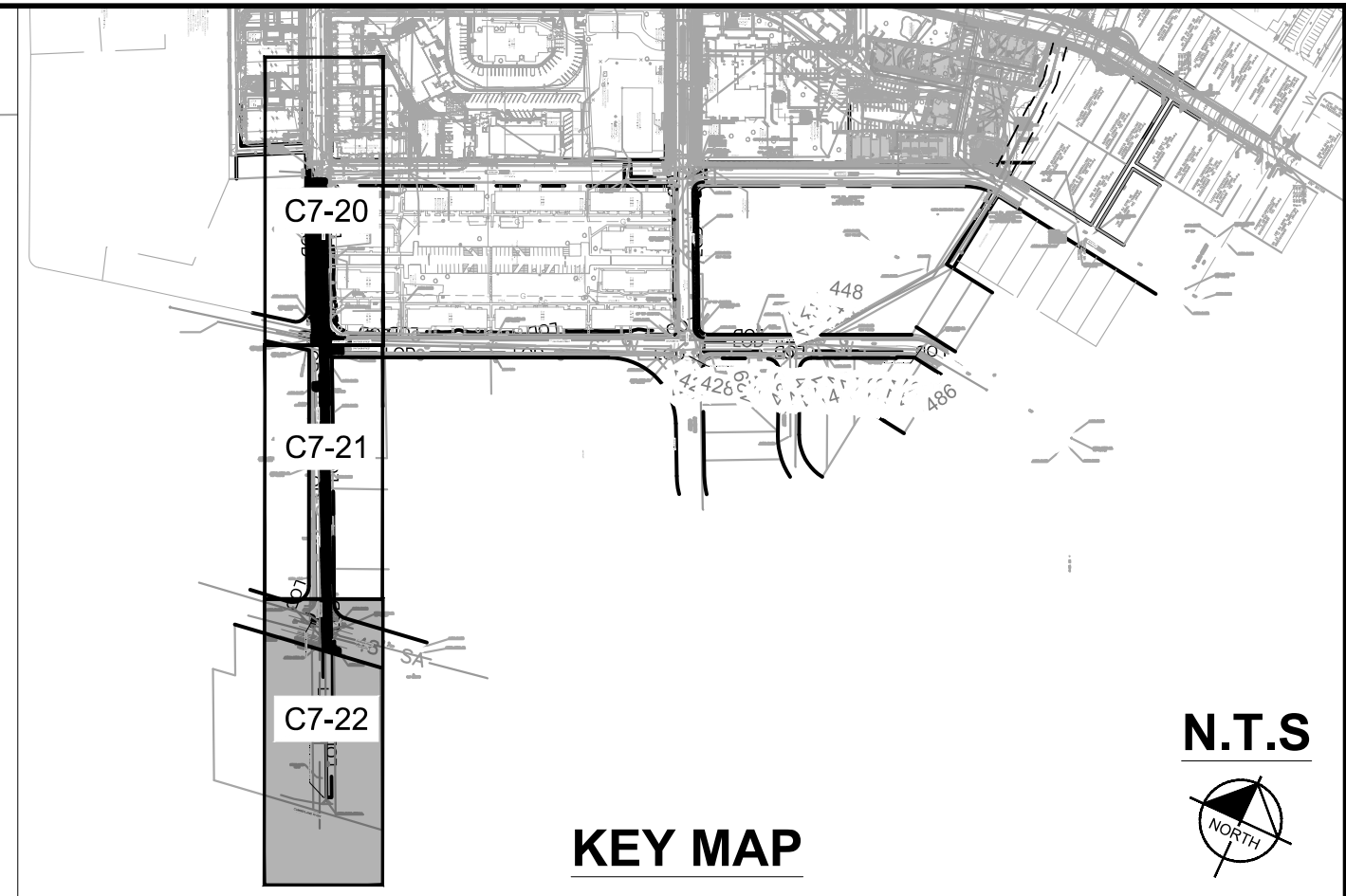
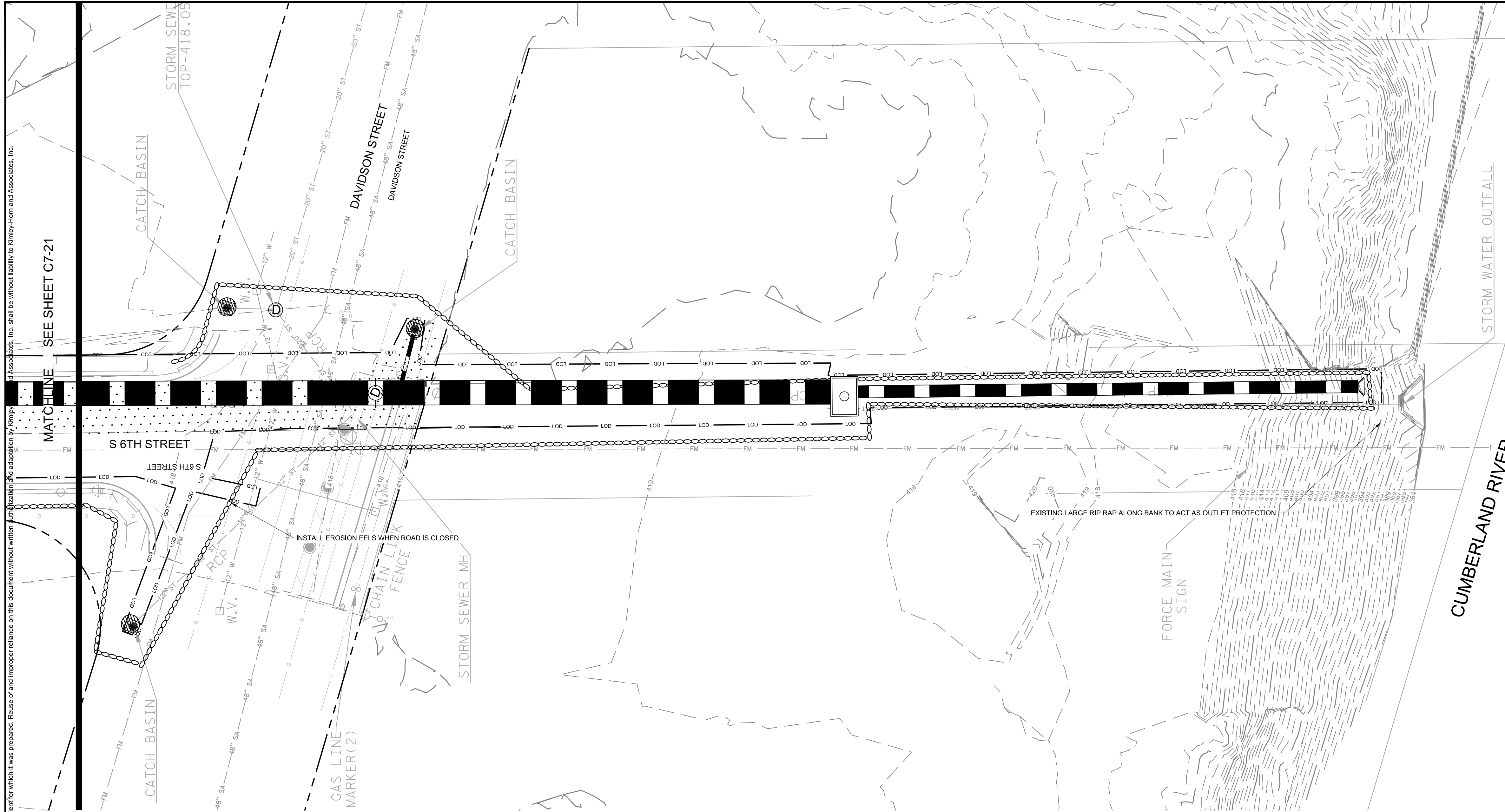


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DESIGNED BY:	KKF
DRAWN BY:	LEB
CHECKED BY:	ZJD
DATE:	10/08/2020
KIMLEY-HORN PROJECT NO.	118109016

EROSION CONTROL
 PLAN - PHASE 2
 SHEET NUMBER
C7-21

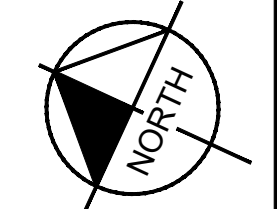
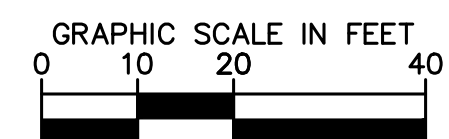
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	LDD LIMITS OF DISTURBANCE
	CONSTRUCTION SIGN

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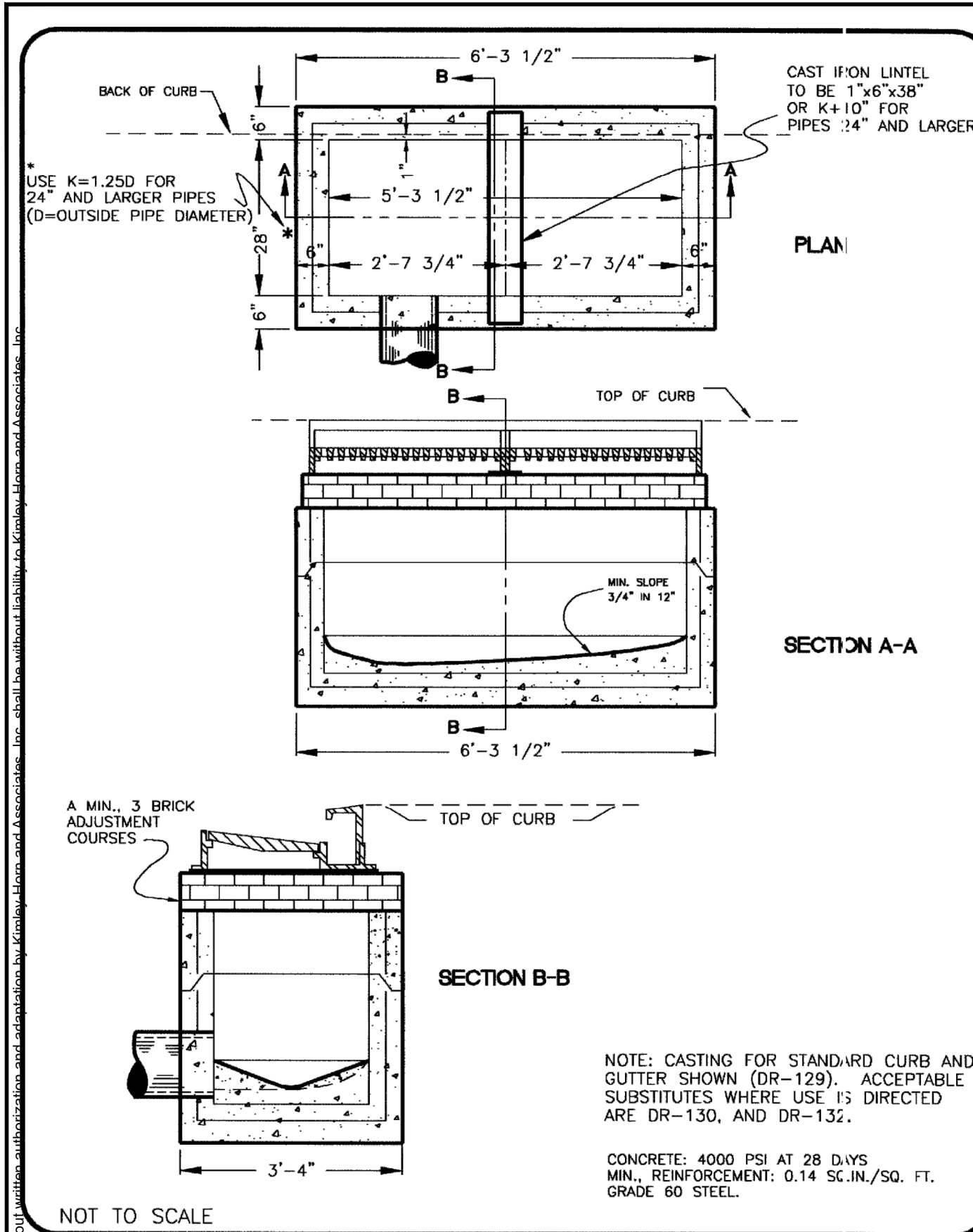
CAYCE UTILITY PHASE 1A
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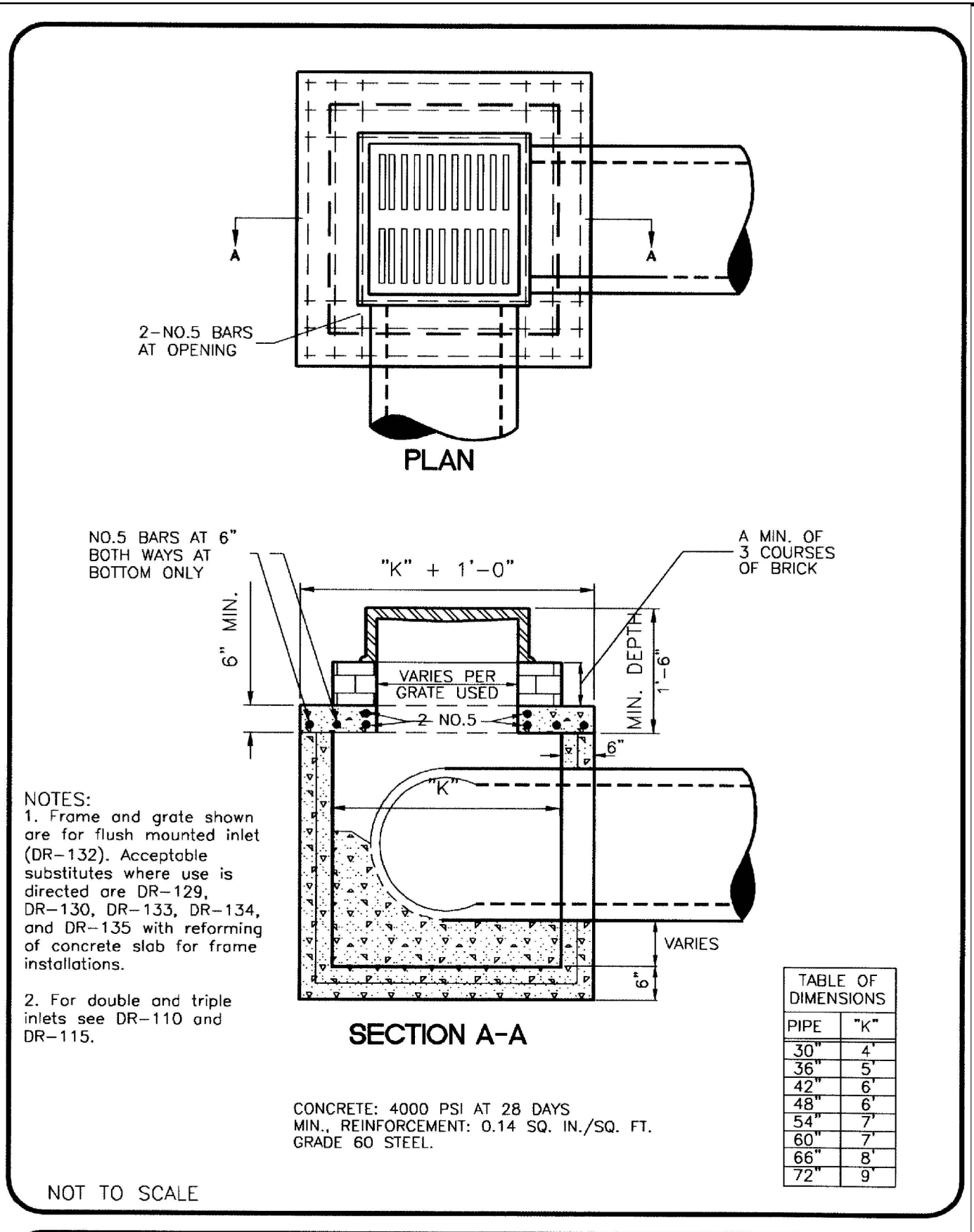
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 KIMLEY-HORN PROJECT NO. 118109016

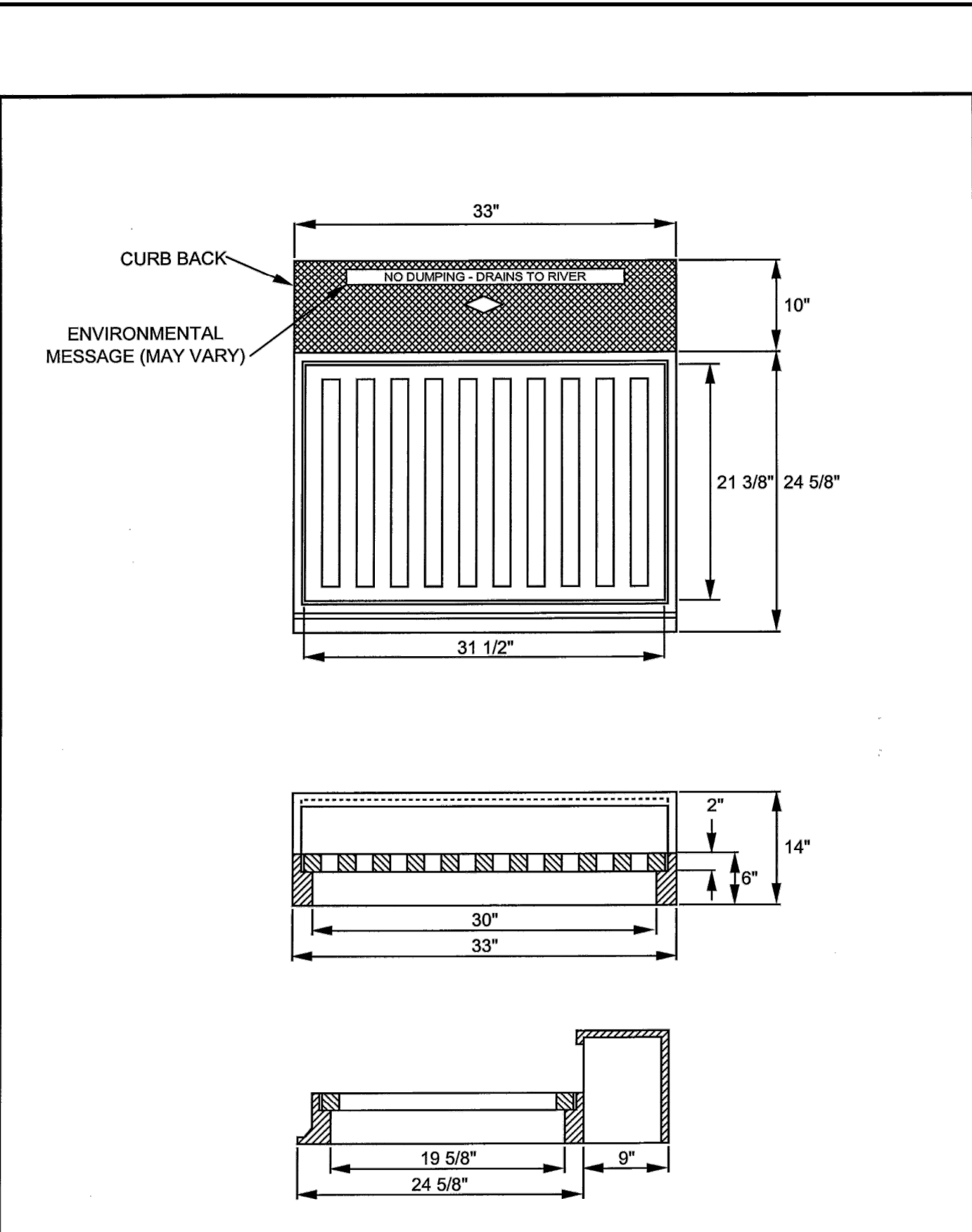
EROSION CONTROL PLAN - PHASE 2
 SHEET NUMBER
C7-22



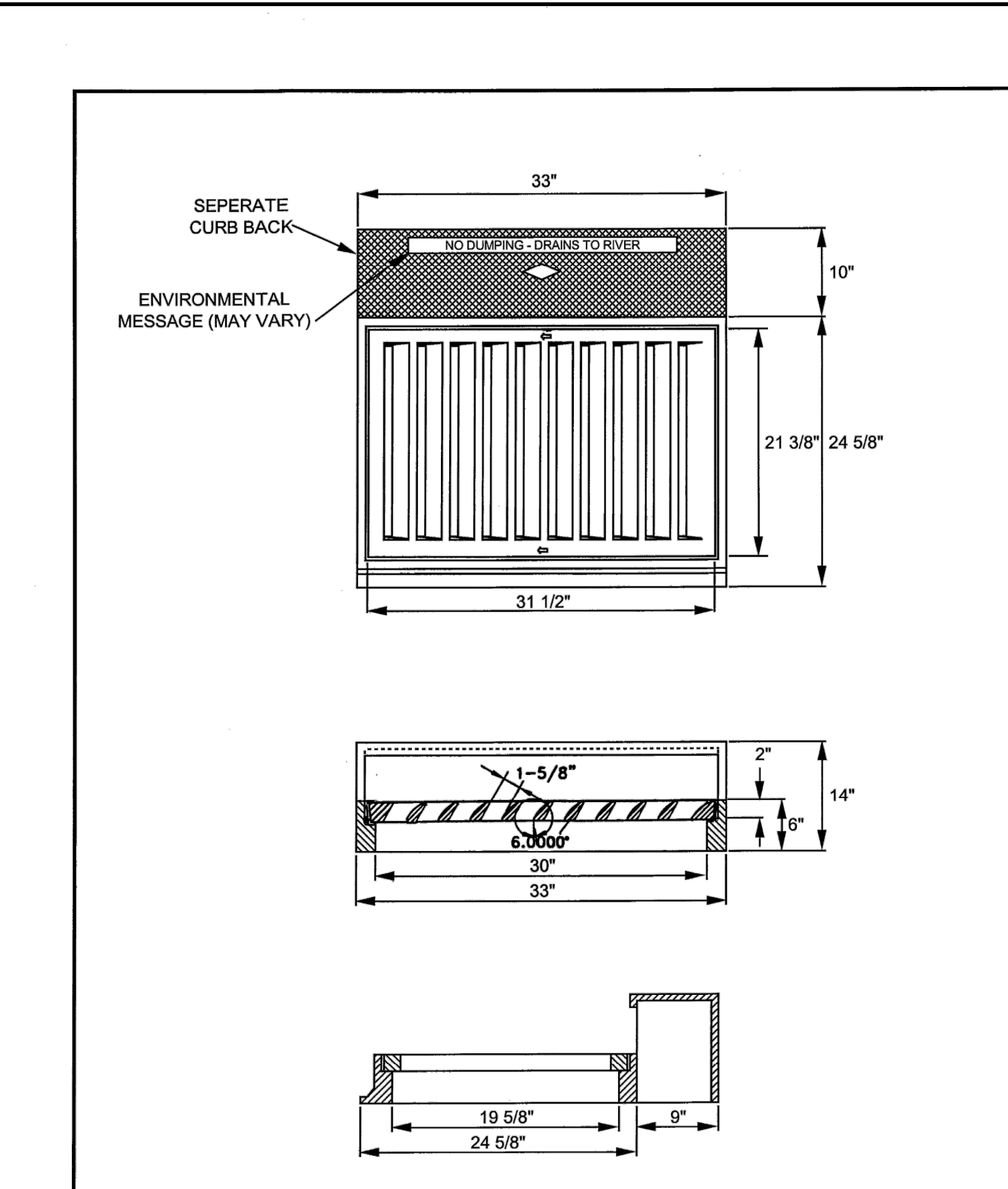
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DOUBLE INLET (PRECAST)
 DWG. NO. DR-110
 ASST. DIR. ENG. DATE: 7/15/15
 DIRECTOR: DATE: 3/4/00
 REVISED: 02/14/00



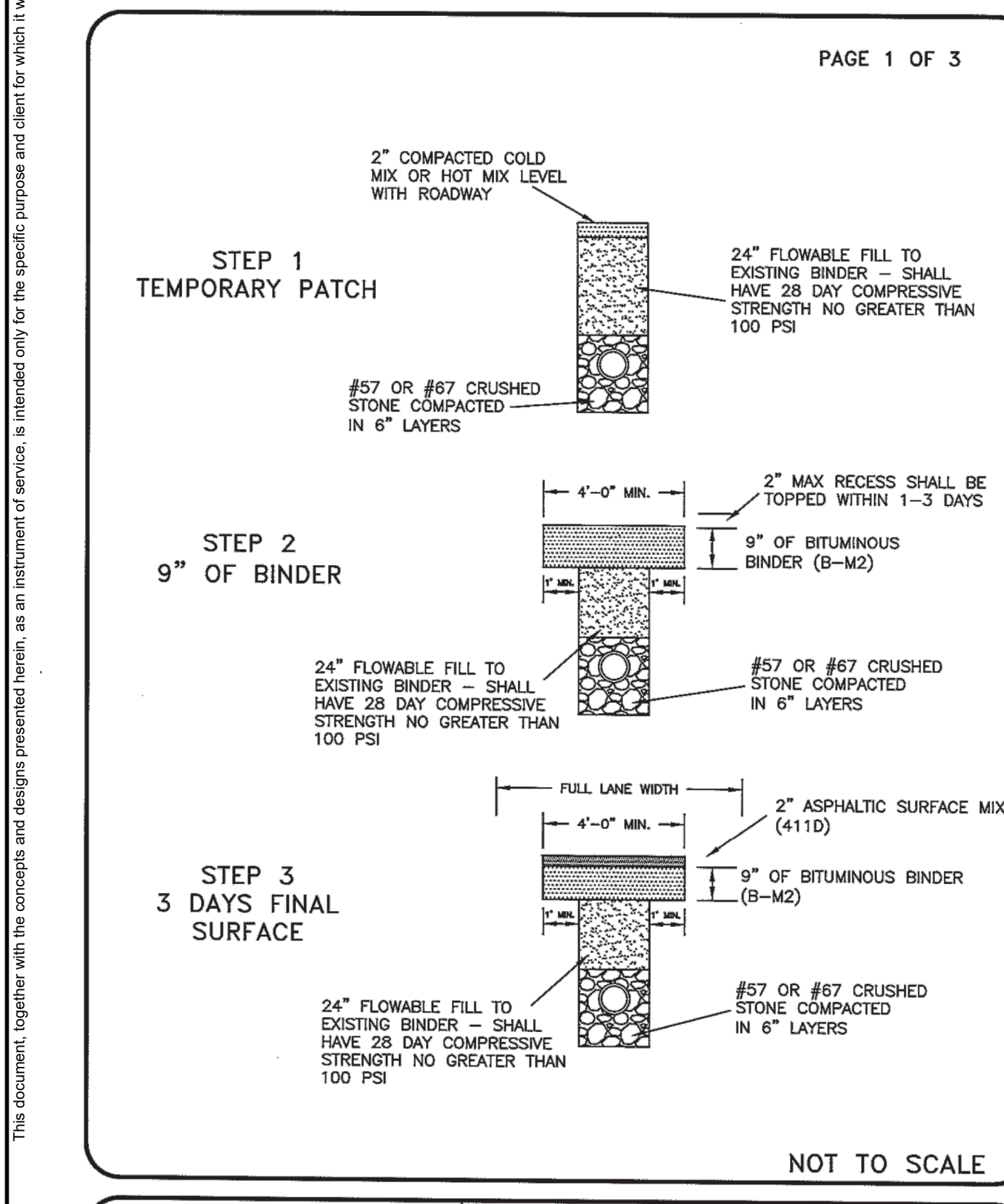
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 DIRECTOR: DATE: 3/4/00
 REVISED: 02/08/00



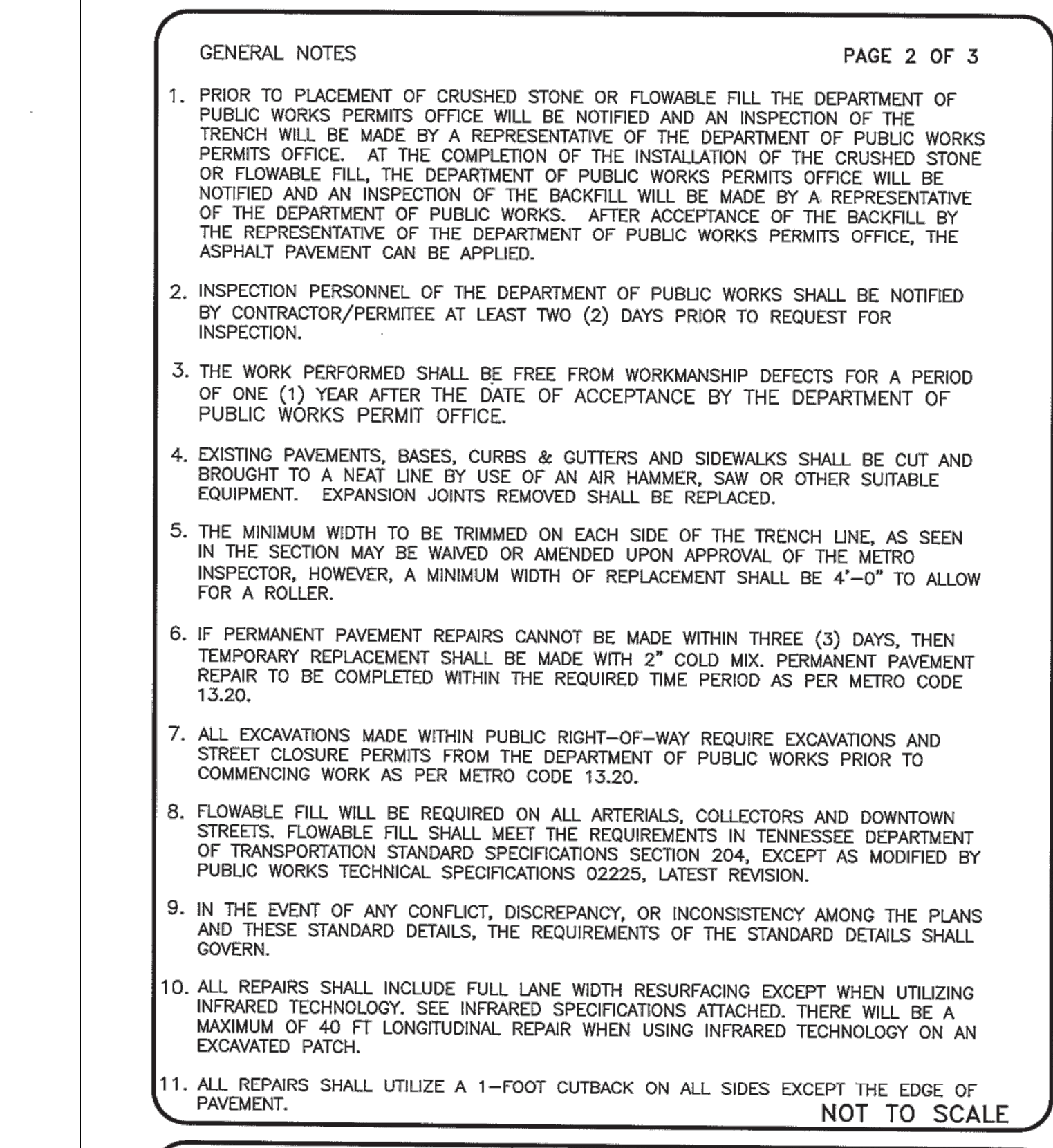
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 1024 Harrison Street, Nashville, TN 37203
 Tel: 615-256-0112 Fax: 615-327-2427
 www.jbouchard.com email: foundry@bouchard.com
3101 CURB INLET
 AVAILABLE IN MULTIPLE UNITS
 TRAFFIC DUTY
 OPEN AREA = 1.98 SQUARE FT



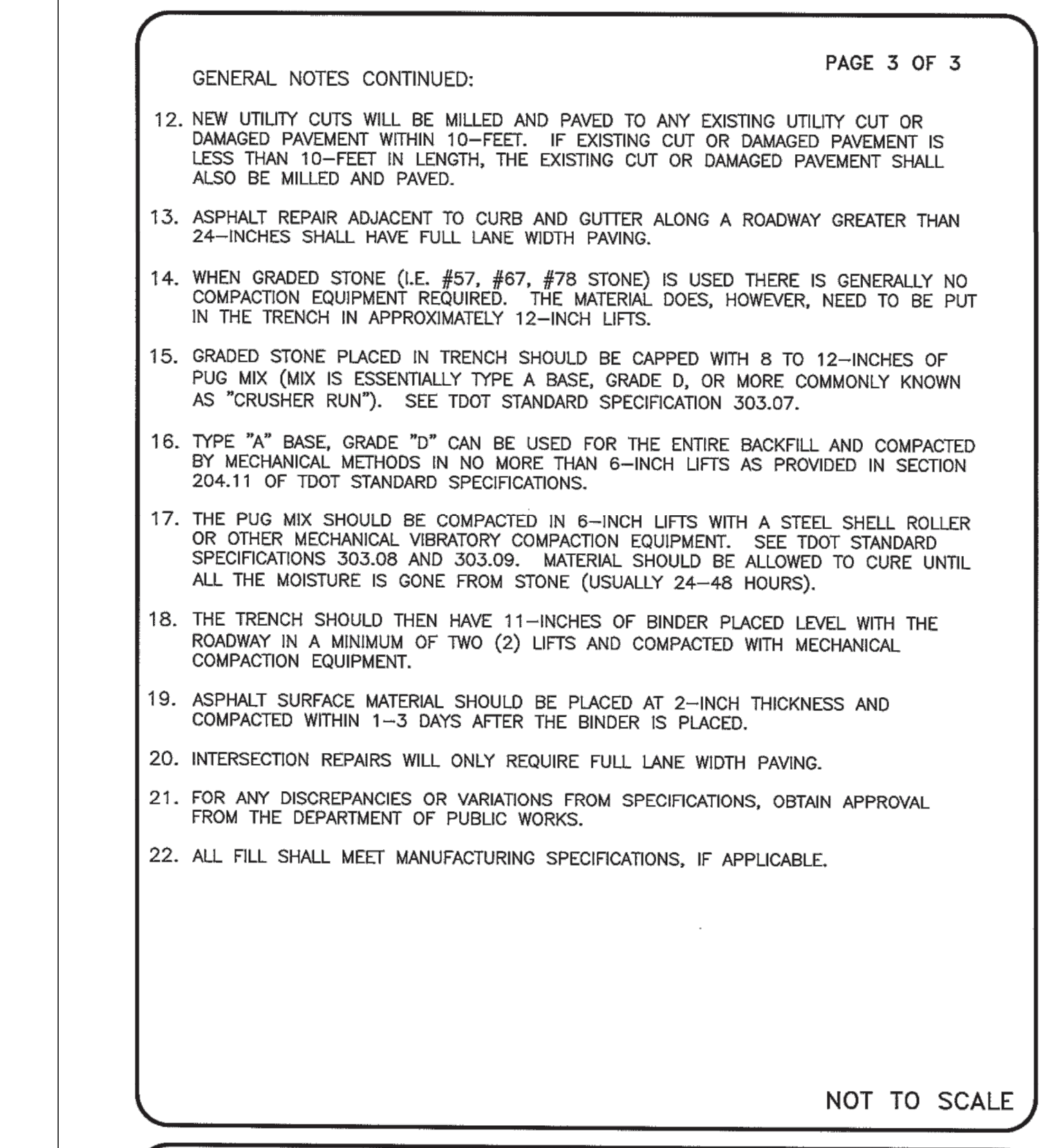
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3101-V CURB INLET
 AVAILABLE IN MULTIPLE UNITS
 TRAFFIC DUTY
 OPEN AREA = 1.88 SQUARE FT



METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS
RECESSED TRENCH REPAIR WITH FLOWABLE FILL
 DWG. NO. ST-271b
 DIR. OF ENG. DATE: 7/15/15
 CREATED: 07/15/15



METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS
RECESSED TRENCH REPAIR WITH FLOWABLE FILL NOTES
 DWG. NO. ST-271b
 DIR. OF ENG. DATE: 7/15/15
 CREATED: 07/15/15



METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS
RECESSED TRENCH REPAIR WITH FLOWABLE FILL NOTES
 DWG. NO. ST-271b
 DIR. OF ENG. DATE: 7/15/15
 CREATED: 07/15/15

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CAYCE UTILITY PHASE 1A
MDHA
 NASHVILLE, TN

STORMWATER DETAILS

SHEET NUMBER
C8-00

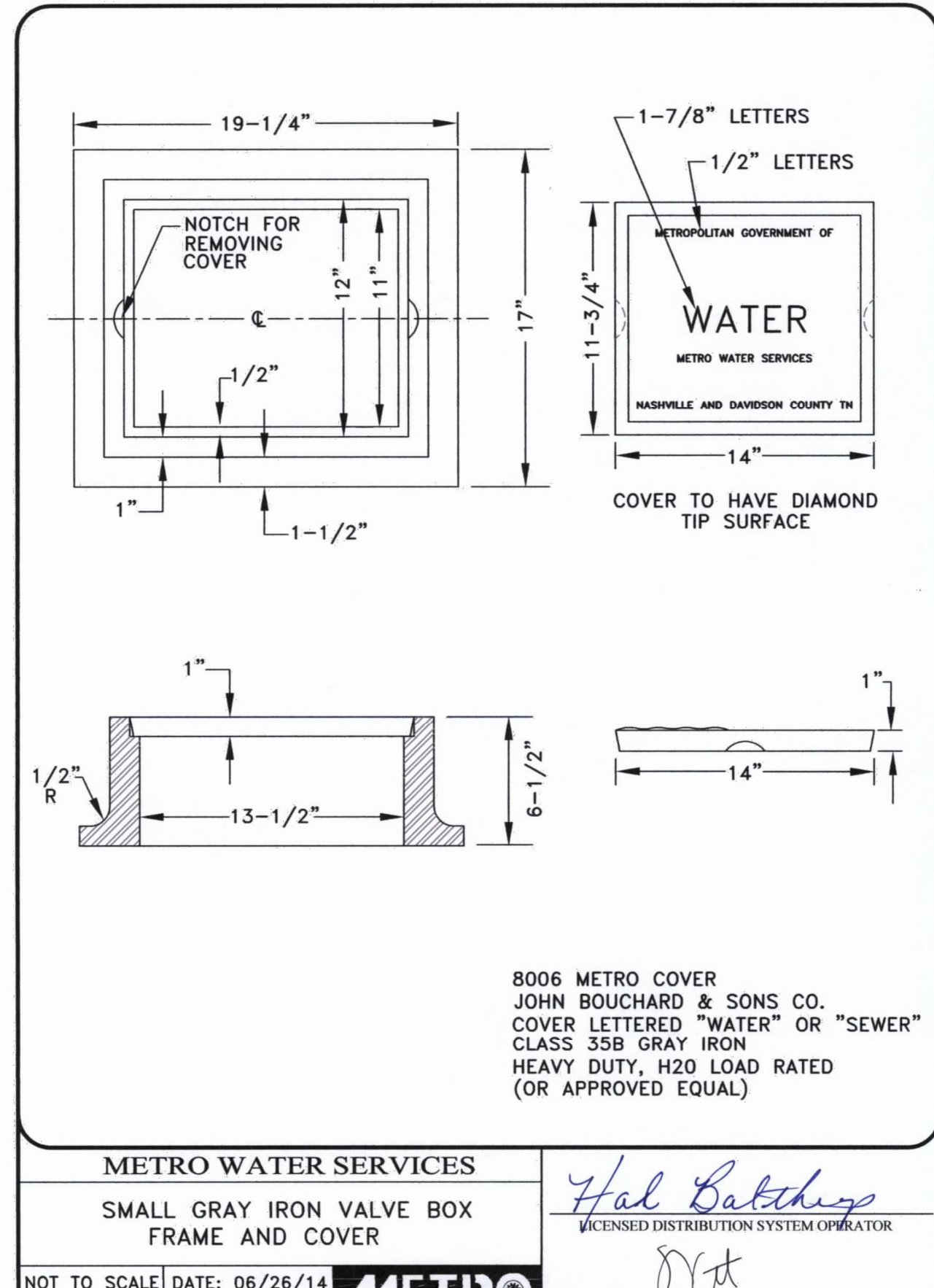
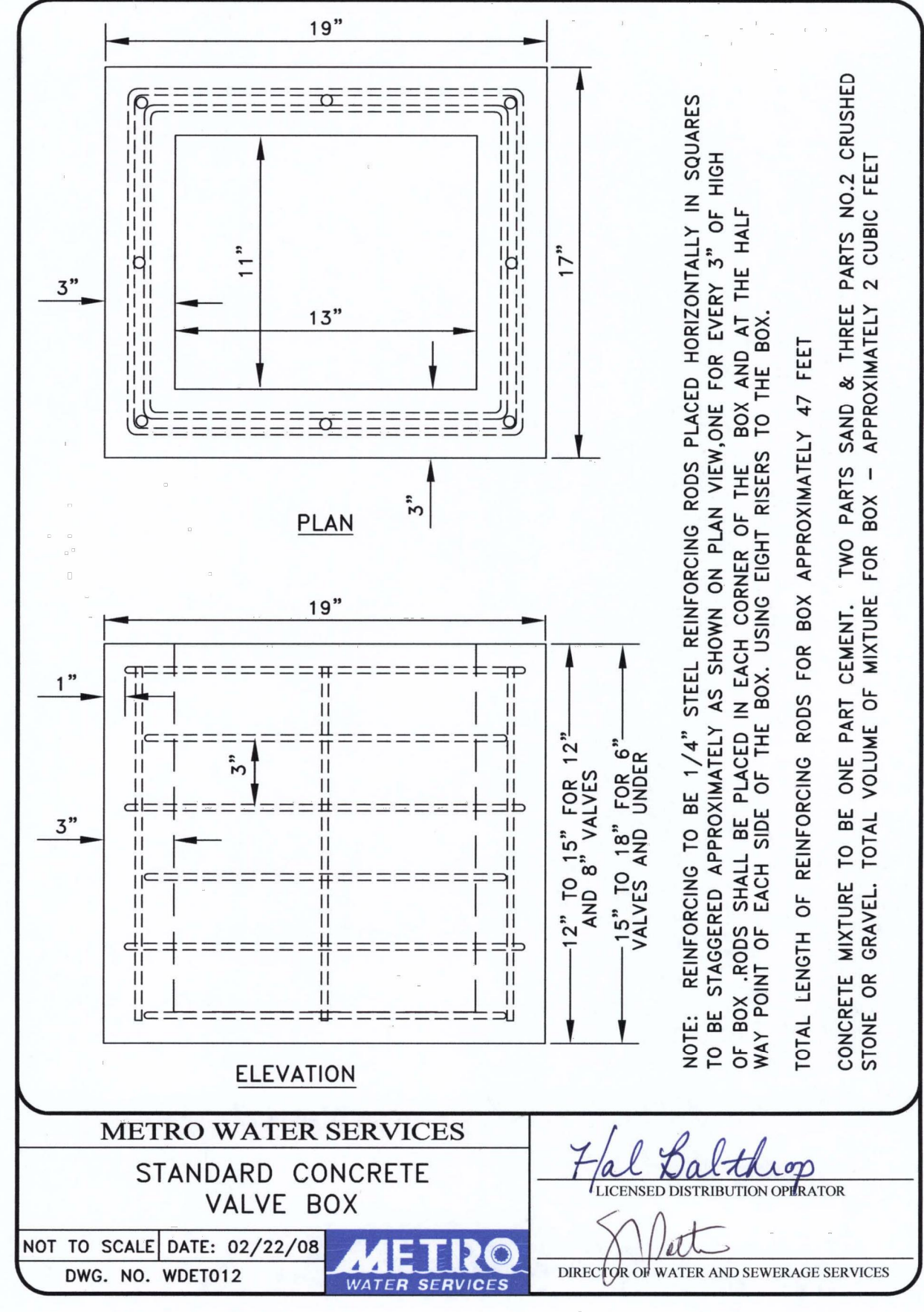
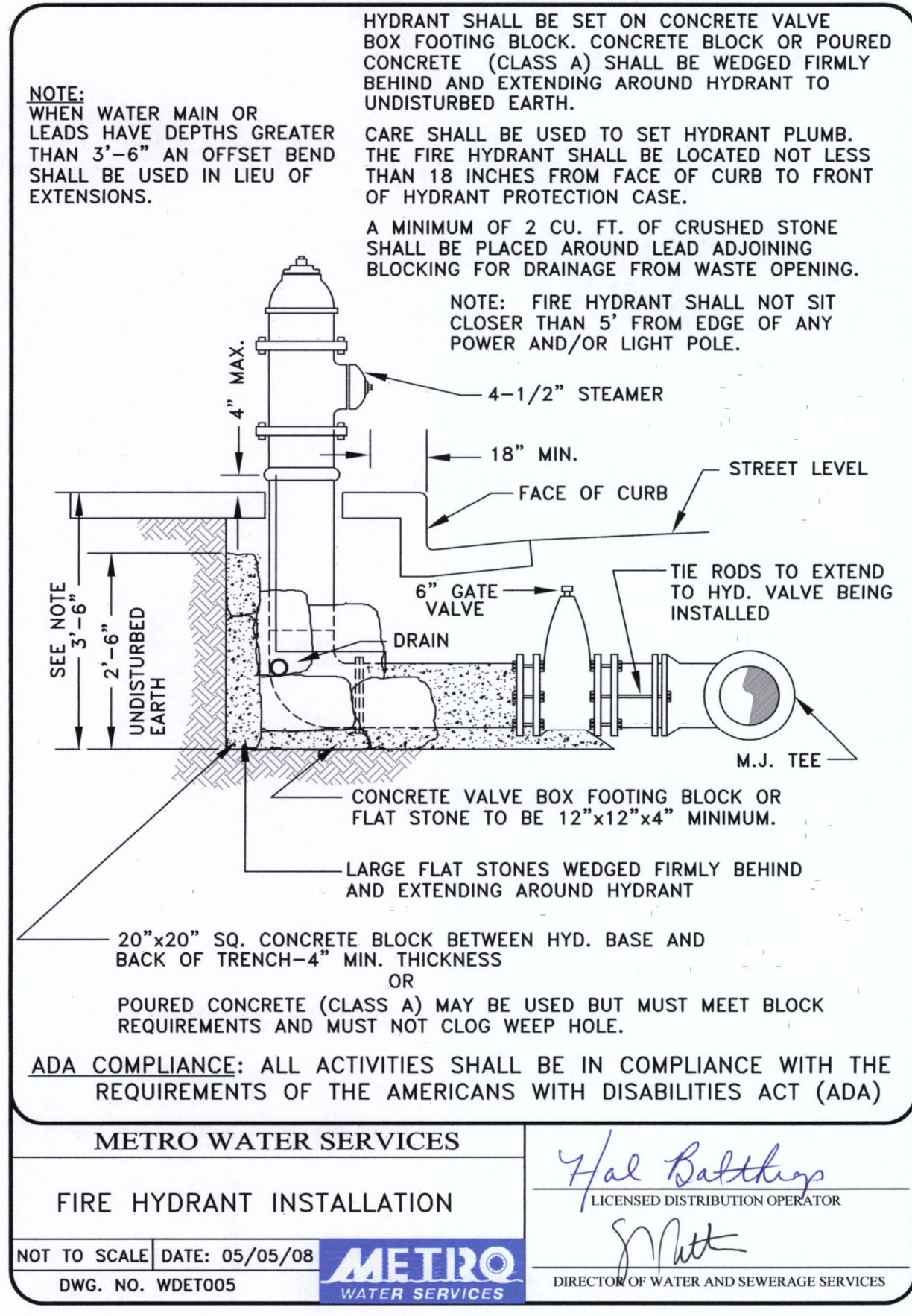


TABLE OF DIMENSIONS FOR CONCRETE KICKERS

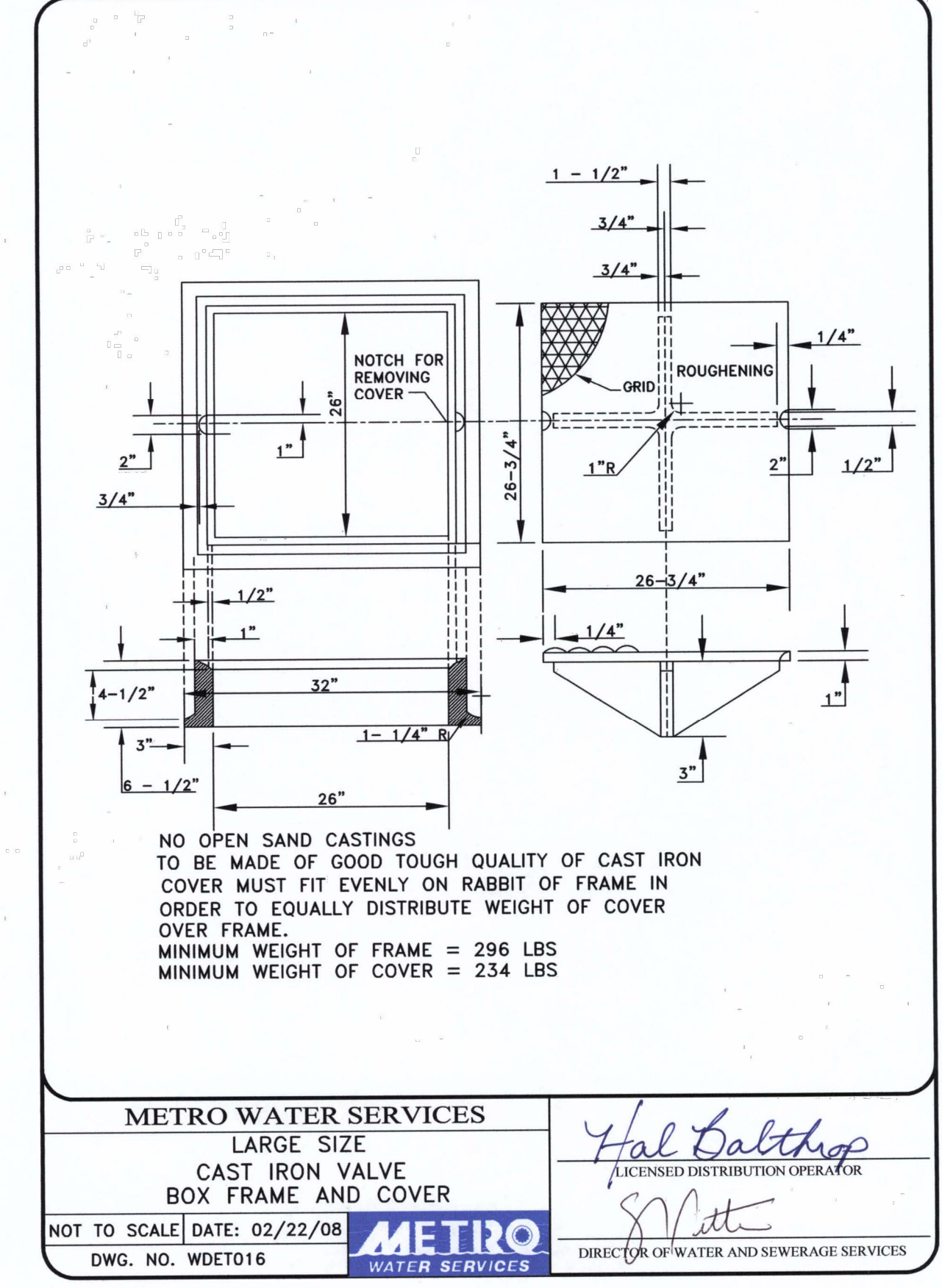
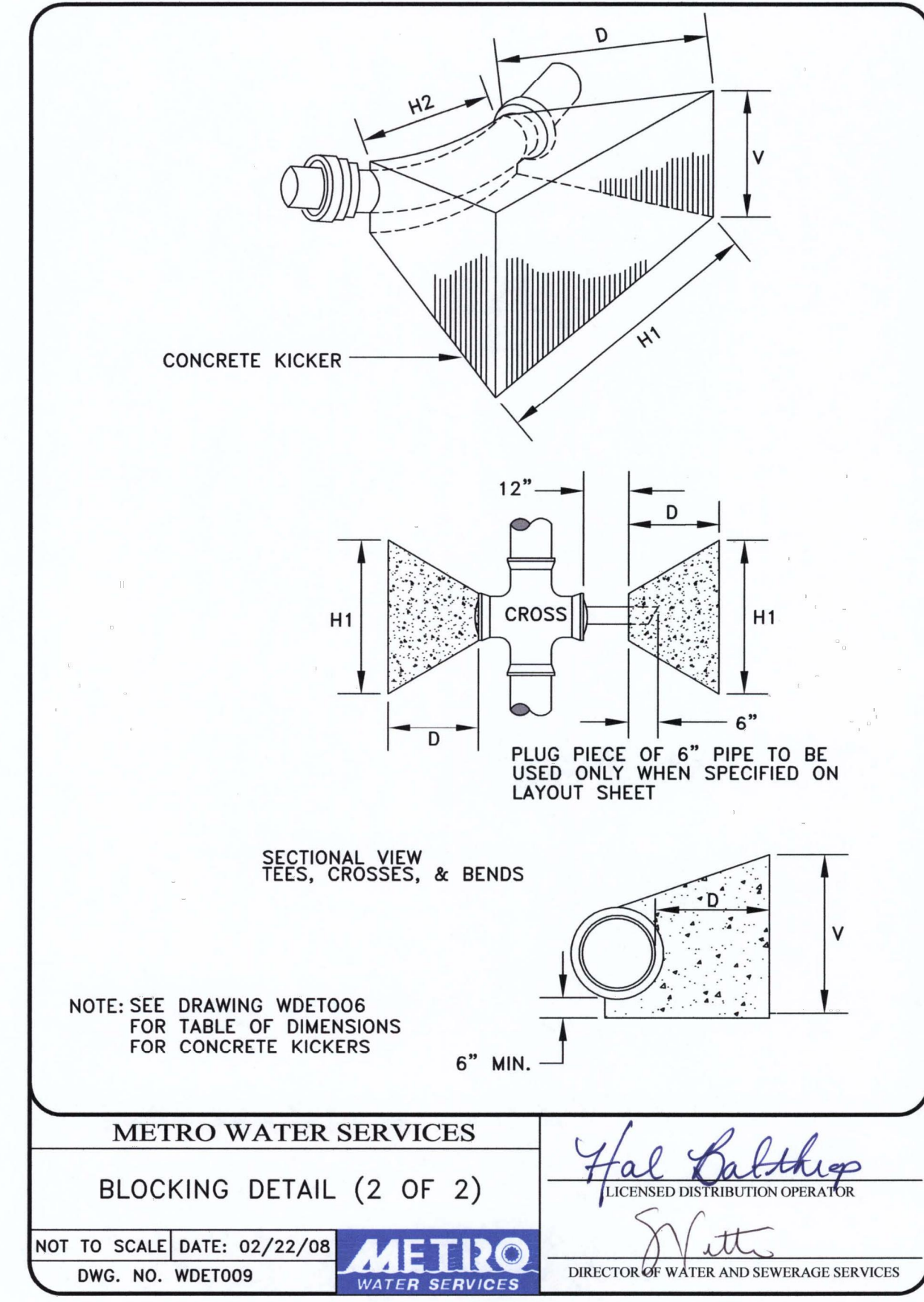
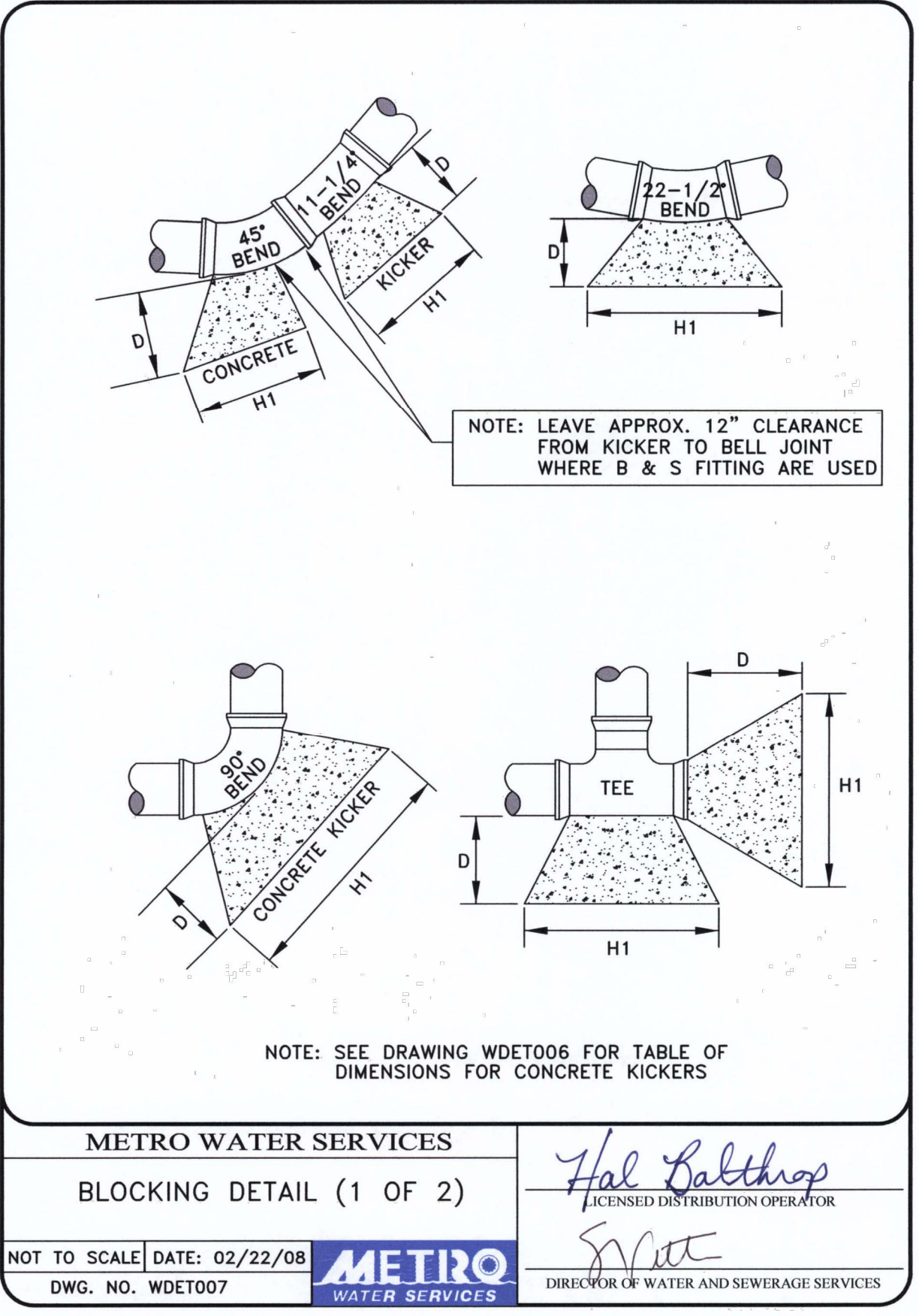
SIZE OF PIPE (in.)	2" & 2-1/4"	3" & 4"	6"	8"	10"	12"	16"	18"	20"	24"	30"	36"
H1	18"	24"	24"	36"	48"	54"	66"					
H2	10"	12"	16"	18"	24"	30"	34"	36"	38"	42"	52"	58"
V	12"	12"	18"	18"	24"	24"	36"					
D	18"	18"	18"	18"	24"	24"	24"	24"	24"	24"	24"	24"
CU. FT.	1.90	2.25	3.50	5.05	7.15	13.40	22.50					
H1	18"	24"	30"	39"	54"	54"	69"					
H2	10"	12"	16"	18"	24"	32"	32"	48"	48"	60"	72"	96"
V	12"	12"	18"	18"	24"	24"	36"					
D	18"	18"	18"	18"	24"	24"	24"	24"	24"	24"	24"	24"
CU. FT.	1.90	2.25	4.05	7.30	10.25	18.15	29.00					
H1	18"	18"	24"	30"	24"	42"	48"					
H2	6"	8"	10"	11"	18"	18"	30"	30"	40"	48"	48"	72"
V	12"	12"	16"	18"	21"	24"	36"					
D	18"	18"	18"	18"	24"	24"	24"	24"	24"	24"	24"	24"
CU. FT.	1.50	1.60	3.20	3.95	4.60	9.60	17.00					
H1	18"	18"	24"	24"	24"	24"	36"					
H2	6"	8"	10"	11"	18"	18"	30"	30"	36"	42"	48"	72"
V	12"	12"	16"	18"	21"	24"	27"					
D	18"	18"	18"	18"	24"	24"	24"	24"	24"	24"	24"	24"
CU. FT.	1.50	1.60	3.20	3.40	4.60	6.80	11.80					
H1	18"	18"	24"	24"	24"	24"	27"					
H2	6"	8"	10"	11"	18"	18"	24"	30"	40"	42"	48"	48"
V	12"	12"	16"	16"	21"	21"	27"					
D	18"	18"	18"	18"	24"	24"	24"	24"	24"	24"	24"	24"
CU. FT.	1.50	1.60	3.20	3.40	4.60	6.10	9.10					

NOTE: CONCRETE USED FOR BLOCKING SHALL BE (CLASS "A"-3500# PER SQ. IN.). EARTH PRESSURES ARE FIGURED AT (4000# PER SQ. FT.) BEARING AREA OF KICKERS SHALL BE INCREASED WHEN POURED AGAINST SAND, LOOSE FILL, WET EARTH, CINDERS, ETC.

TABLE BASED ON 225 P.S.I. OR 150 P.S.I. WORKING PRESSURE PLUS 50% WATER HAMMER

METRO WATER SERVICES
TABLE OF DIMENSIONS
NOT TO SCALE DATE: 05/05/08
DWG. NO. WDET006

Hal Baltrop
LICENSED DISTRIBUTION OPERATOR
METRO WATER SERVICES
DIRECTOR OF WATER AND SEWERAGE SERVICES

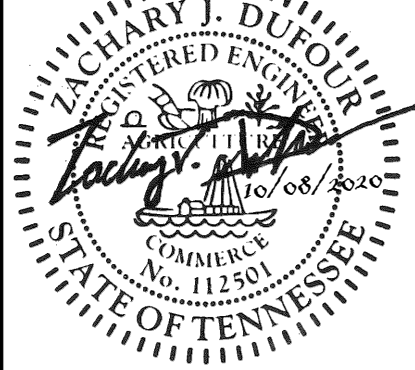


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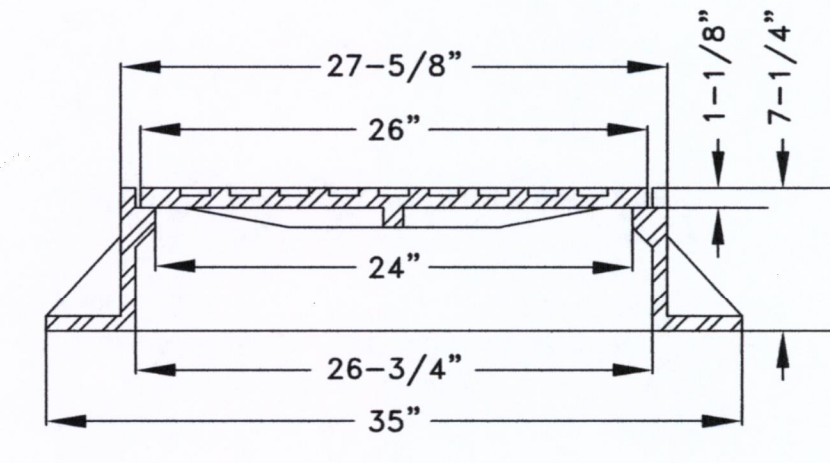
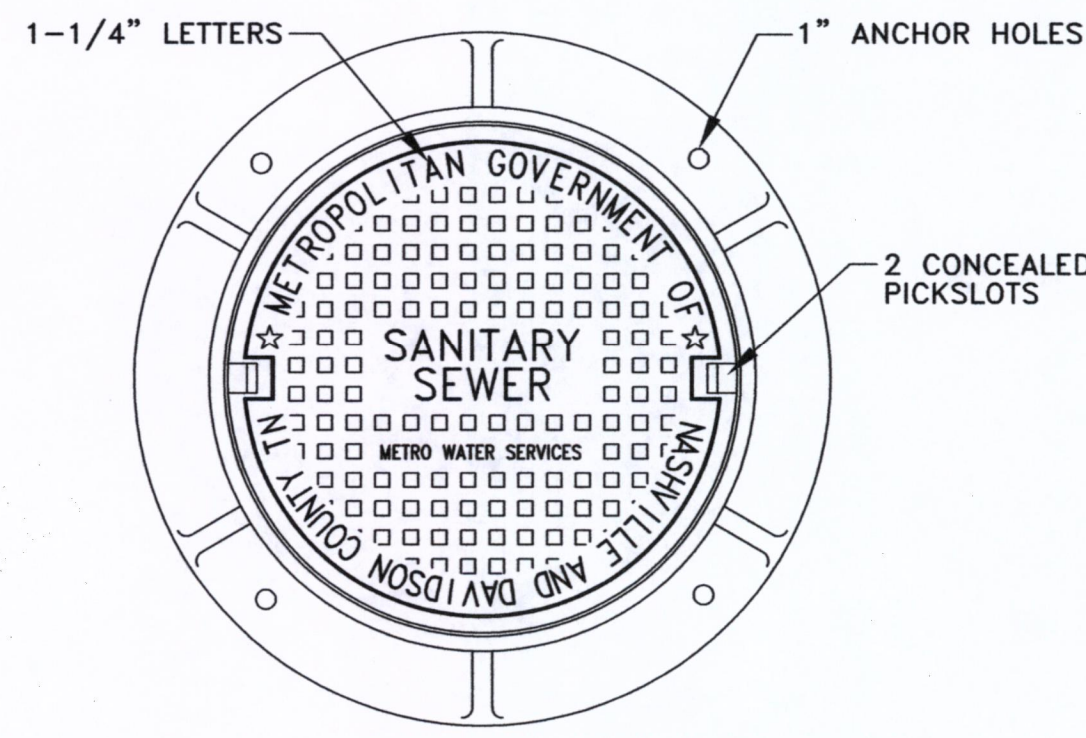
CAYCE UTILITY PHASE 1A
MDHA
NASHVILLE, TN



NO.	DATE	BY	REVISIONS
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DESIGNED BY: KKF
DRAWN BY: LEB
CHECKED BY: ZJD
DATE: 10/08/2020
KIMLEY-HORN PROJECT NO. 118109016

WATER AND SEWER DETAILS
SHEET NUMBER
C8-01A



1150 METRO COVER
 JOHN BOUCHARD & SONS CO.
 COVER LETTERED "SANITARY SEWER" OR "STORM DRAIN"
 CLASS 35B GRAY IRON
 HEAVY DUTY, H2O LOAD RATED
 (OR APPROVED EQUAL)

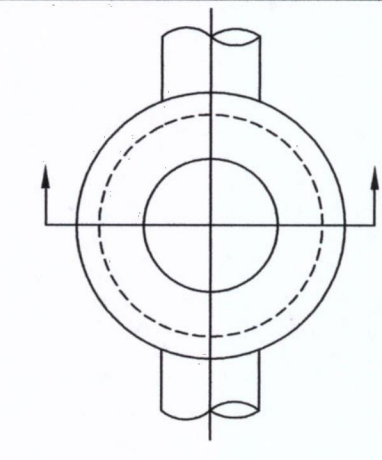
METRO WATER SERVICES
 STANDARD MANHOLE
 FRAME AND COVER

Hal Baldrey
 LICENSED COLLECTION SYSTEM OPERATOR

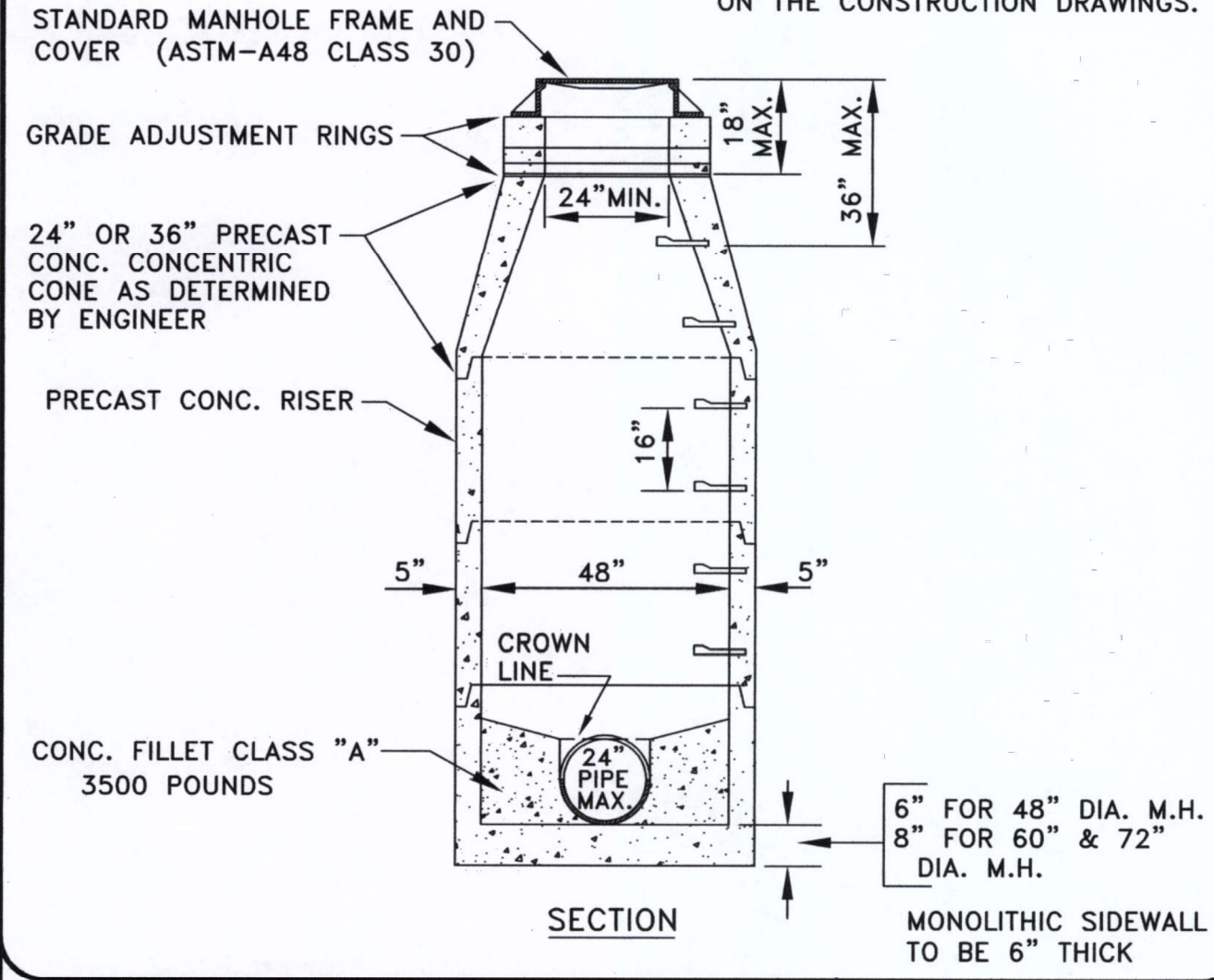
NOT TO SCALE DATE: 11/08/13
 DWG. NO. SDET001



DIRECTOR OF WATER AND SEWERAGE SERVICES



NOTE:
 STANDARD FRAME AND COVER SHALL
 BE INSTALLED ON STANDARD
 MANHOLE UNLESS NOTED OTHERWISE
 ON THE CONSTRUCTION DRAWINGS.



METRO WATER SERVICES
 STD. PRECAST CONC.
 MANHOLE DETAIL

Hal Baldrey
 LICENSED COLLECTION OPERATOR

NOT TO SCALE DATE: 05/05/08
 DWG. NO. SDET003



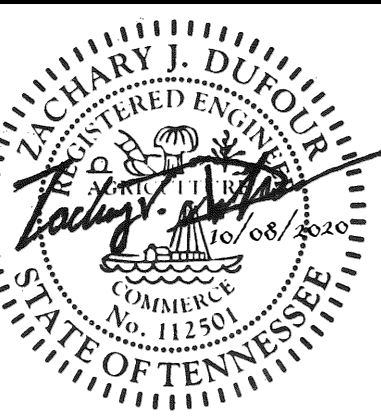
DIRECTOR OF WATER AND SEWERAGE SERVICES

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NO.	DATE	BY	REVISIONS
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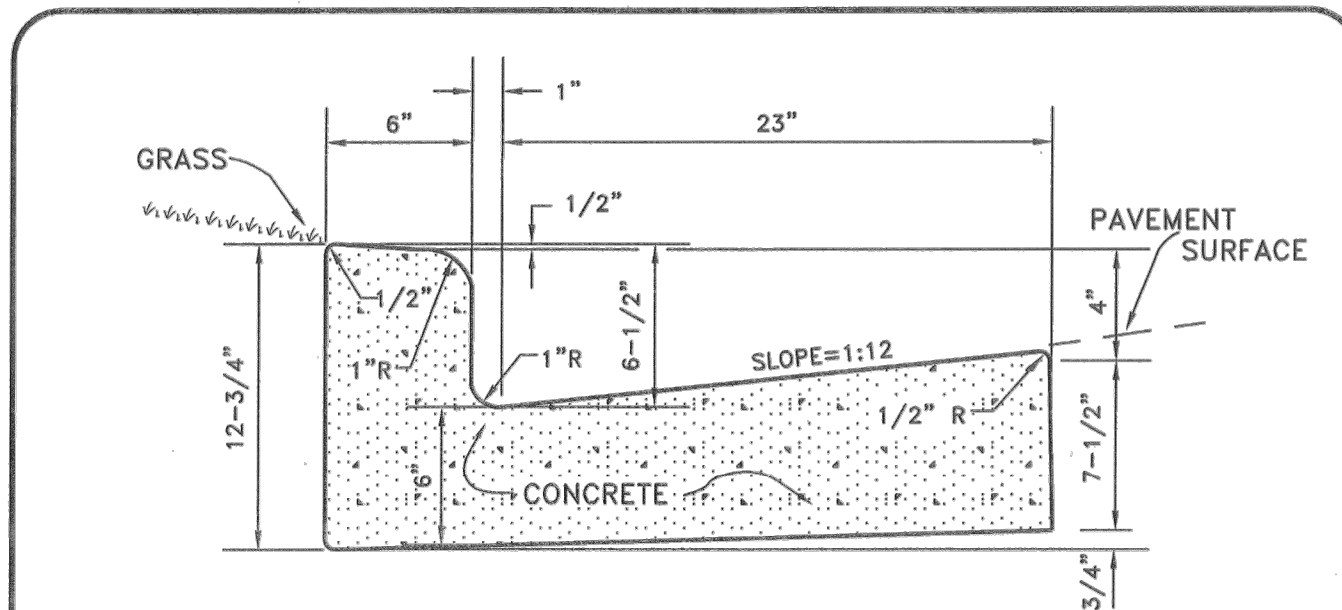
DESIGNED BY: KKF
 DRAWN BY: LEB
 CHECKED BY: ZJD
 DATE: 10/08/2020
 KIMLEY-HORN PROJECT NO.
 118109016

WATER AND SEWER
 DETAILS

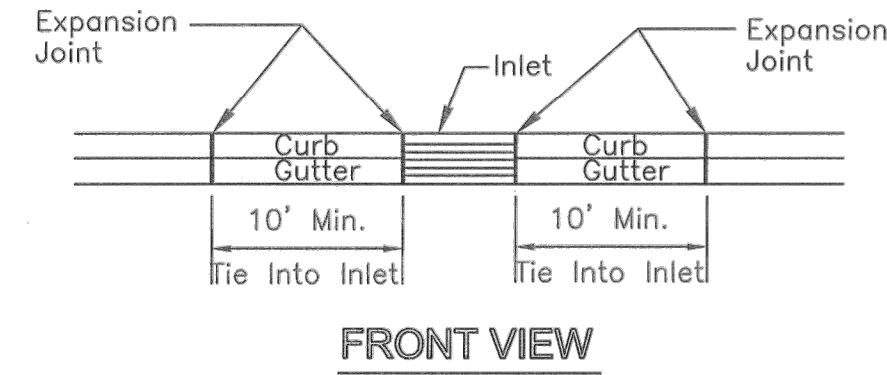
SHEET NUMBER
C8-01B

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TYPICAL CROSS - SECTION



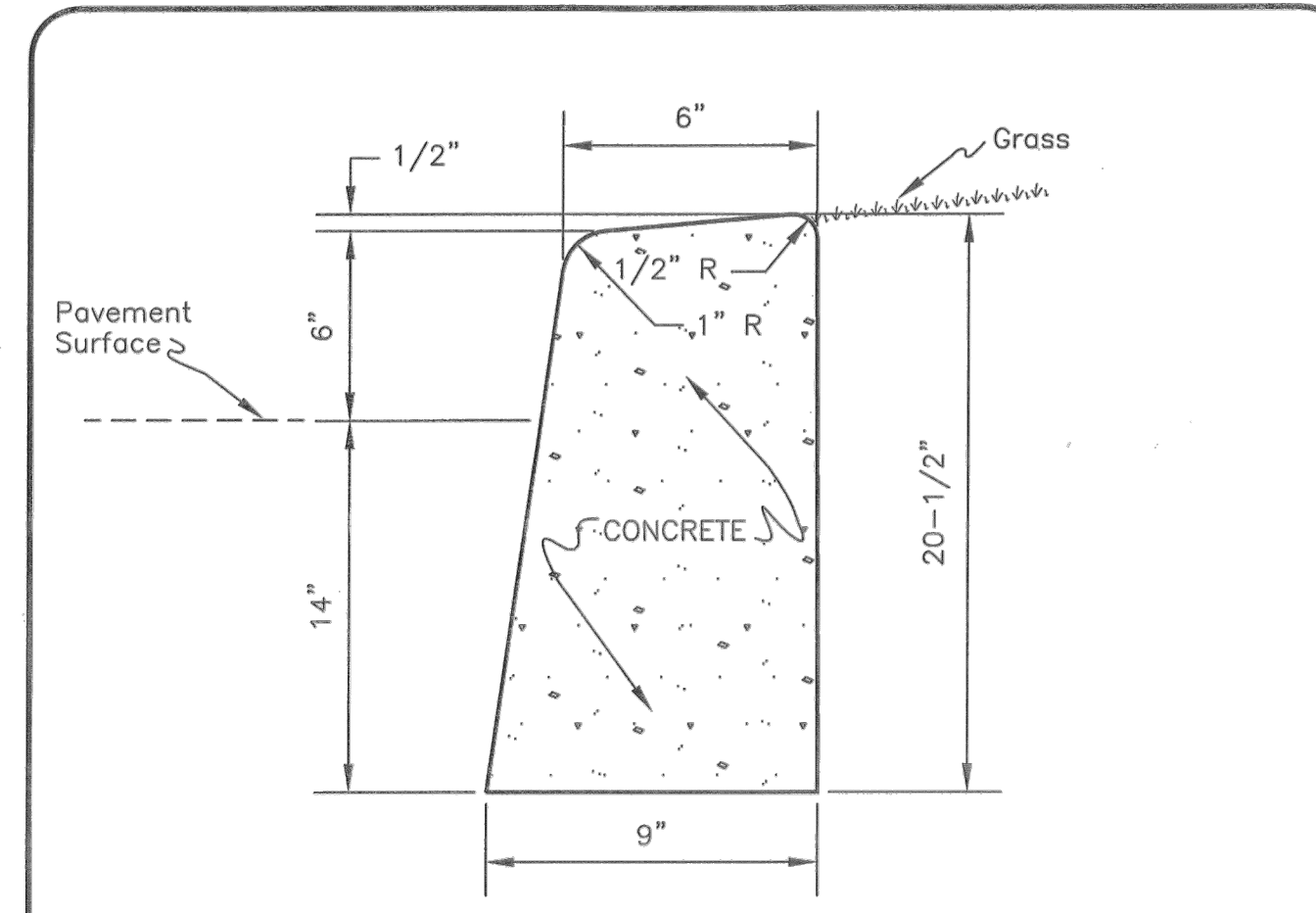
FRONT VIEW

GENERAL NOTES

- Expansion joints to be spaced a maximum of 100 feet apart or as directed by the Engineer.
- Expansion joints will also be required at tangent points, ramps, and inlets.
- Contraction joints are to be cut into curb and gutter every 10 feet to a depth of $D/4$, where D equals the thickness of the section. The spacing of 10 feet may be reduced at closures but no section of curb and gutter shall be less than 10 feet.
- There will be a minimum of 10 feet tie in at curb inlets on each side of the tie in. An expansion joint will be used on each side of the tie in.
- Cost of contraction joints to be included in the unit bid price for concrete curb with gutter.

NOT TO SCALE

METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS	STANDARD CURB WITH GUTTER	DWG. NO. ST-200
DIR. OF ENG.: <i>Mark May</i>	DATE: 5/12/03	REVISED: 07/21/00 REVISED: 05/02/03



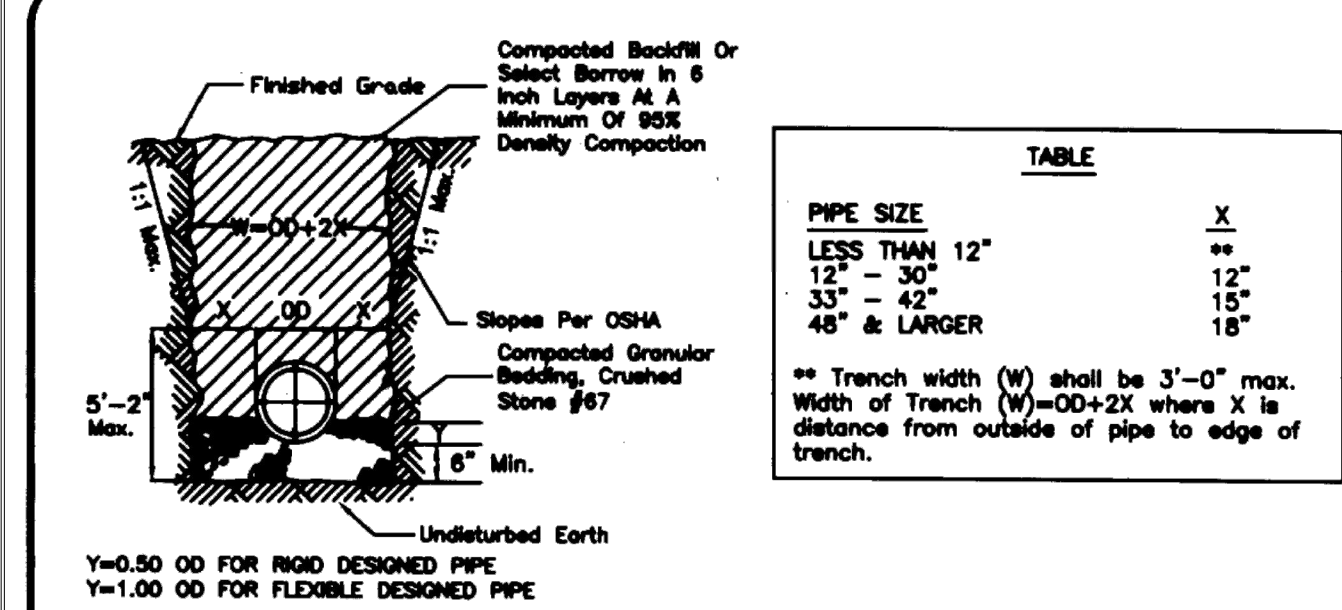
TYPICAL CROSS - SECTION

GENERAL NOTES

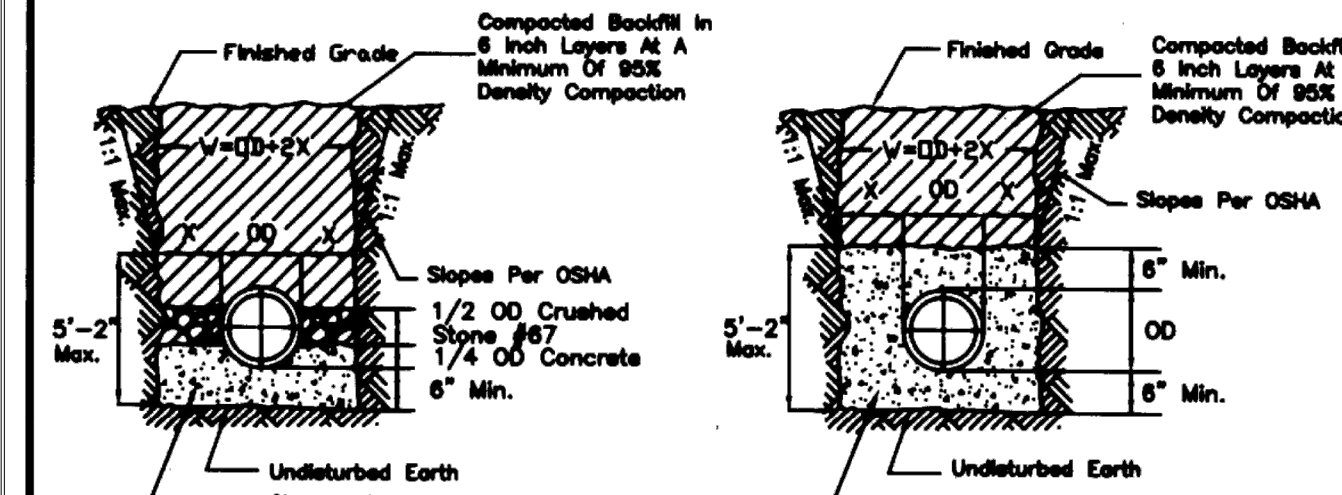
- Expansion joints to be spaced a maximum of 100 feet apart or as directed by the Engineer.
- Expansion joints will also be required at tangent points, ramps, and inlets.
- Contraction joints are to be cut into curb every 10 feet to a depth of $D/4$, where D equals the thickness of the section. The spacing of 10 feet may be reduced at closures but no section of curb shall be less than 10 feet.
- Cost of contraction joints to be included in the unit bid price for concrete curb.

NOT TO SCALE

METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS	CONCRETE POST CURB	DWG. NO. ST-201
DIR. OF ENG.: <i>Mark May</i>	DATE: 5/12/03	REVISED: 07/24/00 REVISED: 05/02/03



STANDARD TRENCH



CONCRETE CRADLE

CONCRETE ENCASEMENT

GENERAL NOTES

- CONCRETE FOR CRADLES AND ENCASEMENTS TO HAVE $F_c = 3000$ PSI AT 28 DAYS.
- POUR CONCRETE AGAINST UNDISTURBED EARTH.
- FOR CONTINUOUS CONDUIT IN TRENCH CONDITIONS THE WIDTH OF TRENCH (W) SHALL BE $OD+2X$ MAXIMUM.
- THE WIDTH OF TRENCH FOR ALL OTHER PIPE DIAMETERS SHALL BE ACCORDING TO TABLE.
- BACKFILL MATERIAL IN ROADWAY SHALL BE CRUSHED STONE #67 COMPACTED IN 6" LAYERS FOR THE FULL DEPTH OF THE TRENCH.

NOT TO SCALE

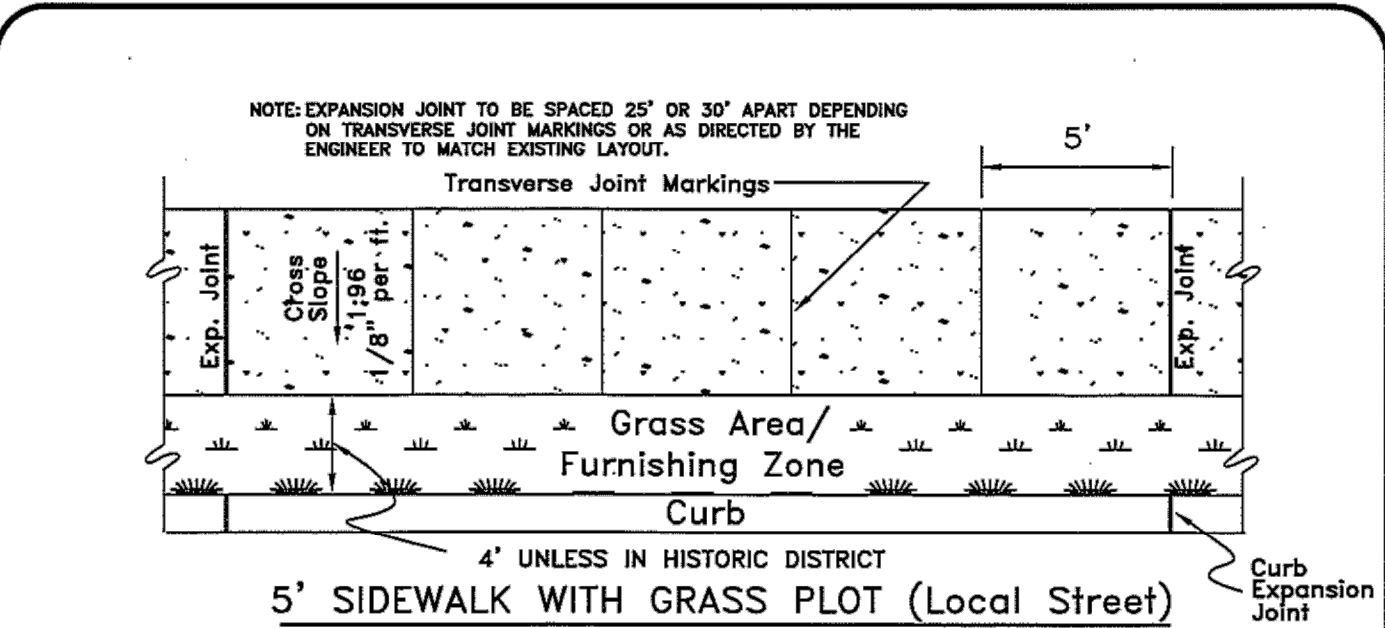
METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS	TRENCH BACKFILL	DWG. NO. DR-180
ASST. DIR. ENG.: <i>Mark May</i>	DATE: 1/24/01	REVISED: 12/01/00
DIRECTOR: <i>James D. ...</i>	DATE: 1-2-01	



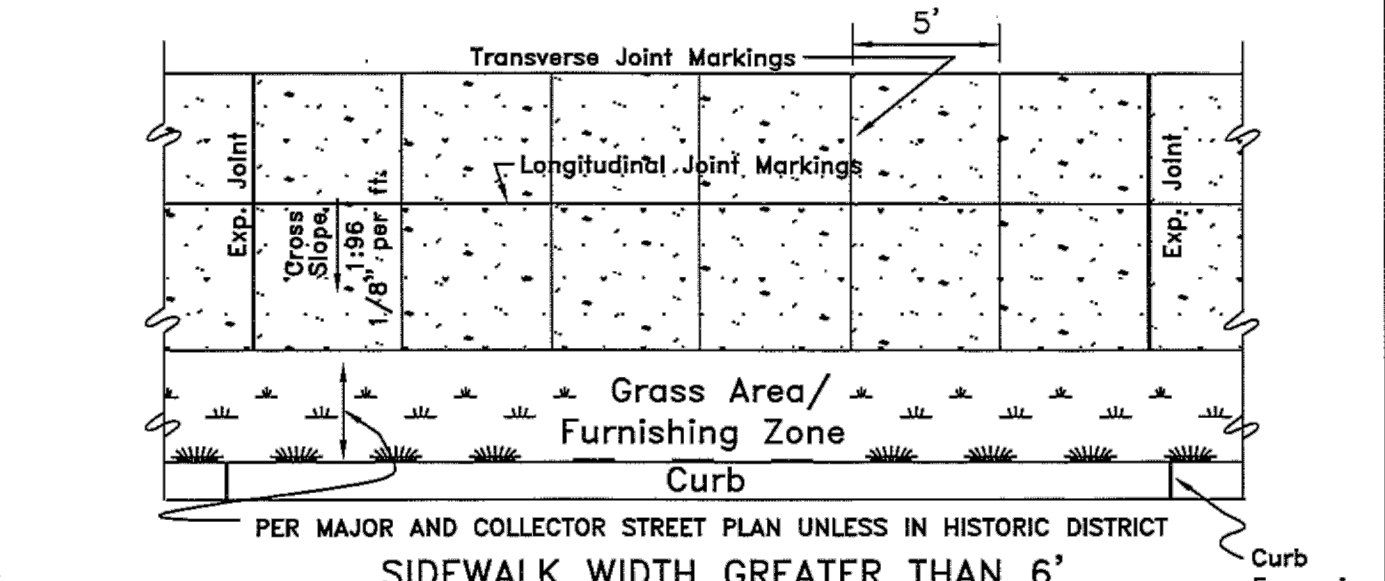
NOTES:

- CURB RAMPS SHALL BE PROVIDED TO ALLOW ALL USERS TO MAKE THE TRANSITION IN GRADE FROM THE STREET TO THE SIDEWALK.
- CURB RAMPS SHALL BE CONSTRUCTED TO THE DIMENSIONS AND FINISHED ELEVATIONS AS SPECIFIED IN THE PLANS AND/OR CONTRACT DOCUMENTS AND SHALL ALSO CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT. SURFACE TEXTURE OF THE CURB RAMP SHALL BE STABLE, FIRM, AND SLIP-RESISTANT. THE SURFACE SHALL BE COARSE BROOMED FINISH TRANSVERSE TO THE SLOPE OF THE RAMP. CARE SHALL BE TAKEN TO ASSURE AN UNIFORM GRADE ON THE CURB RAMP. LONGITUDINAL AND TRANSVERSE JOINT MARKINGS SHALL NOT BE ALLOWED ON THE LANDINGS OR RAMPS.
- DRAINAGE AND UTILITY STRUCTURES SHALL NOT BE PLACED IN CURB RAMP OR LANDING.
- THE GUTTER LINE PROFILE OF THE STREET SHALL BE MAINTAINED THROUGH THE AREA OF THE CURB RAMP.
- THE FURNISHING ZONE BUFFERS PEDESTRIANS FROM THE ADJACENT ROADWAY, AND IS ALSO THE AREA WHERE ELEMENTS SUCH AS STREET TREES, SIGNAL POLES, UTILITY POLES, STREET LIGHTS, CONTROLLER BOXES, HYDRANTS, SIGNS, PARKING METERS, DRIVEWAY APRONS, GRATES, HATCH COVERS, AND STREET FURNITURE ARE PROPERLY LOCATED.

METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS	STANDARD CURB RAMP NOTES	DWG. NO. ST-215
ASST. DIR. ENG.: <i>Mark May</i>	DATE: 11/21/00	REVISED: 11/10/00
DIRECTOR: <i>James D. ...</i>	DATE: 11-20-00	



5' SIDEWALK WITH GRASS PLOT (Local Street)



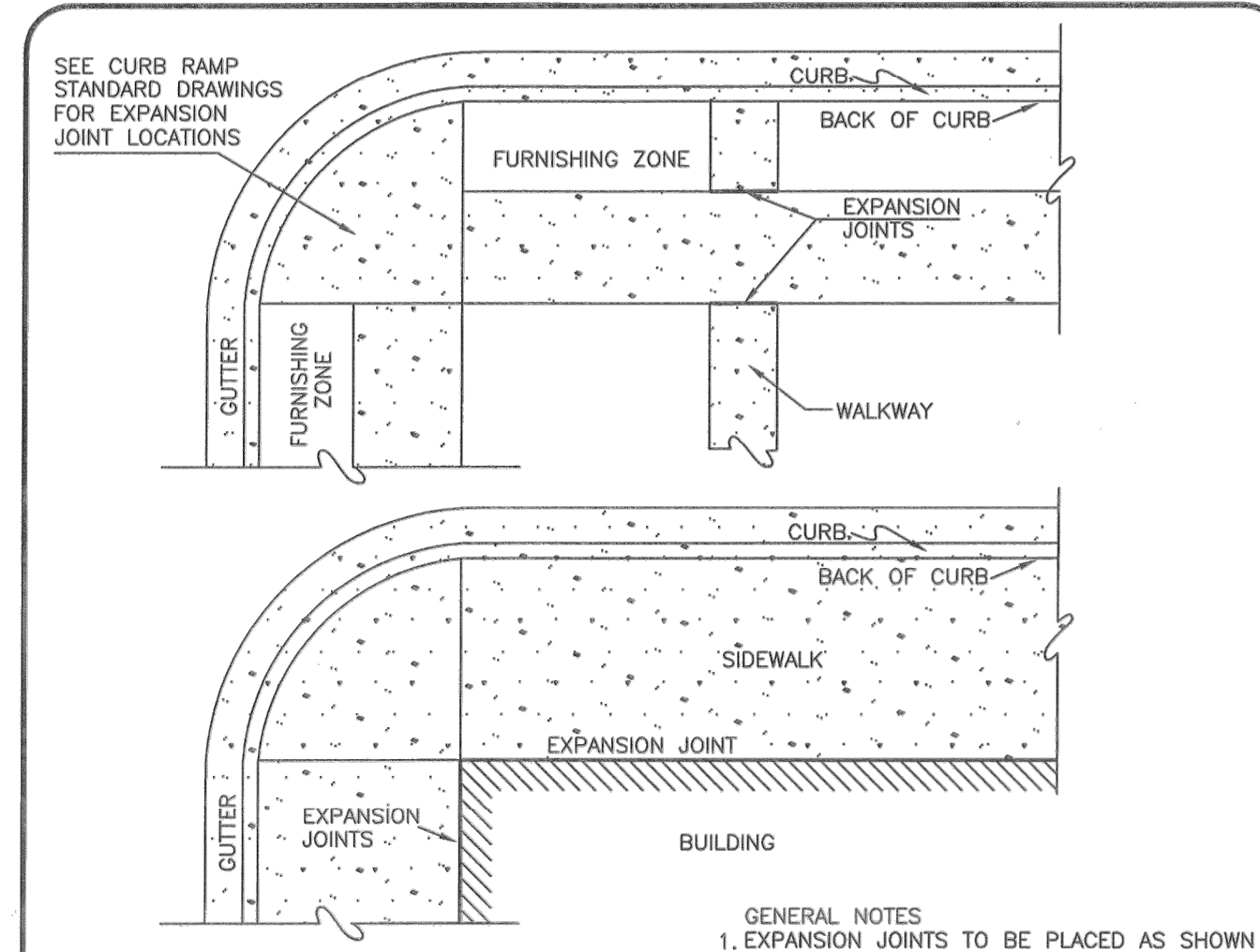
SIDEWALK WIDTH GREATER THAN 6'

GENERAL NOTES

- SIDEWALKS SHALL BE A MINIMUM OF 4 INCHES IN THICKNESS.
- MAXIMUM CROSS SLOPE FOR SIDEWALKS SHALL NOT EXCEED 1:48 (VERTICAL-HORIZONTAL).
- IN HISTORIC DISTRICTS THE STANDARD SHALL BE THE PREVAILING CHARACTERISTIC OF THE BLOCK FACE.
- SIDEWALK SHALL BE CONSTRUCTED OF WHITE CONCRETE, BRICK, OR EXPOSED AGGREGATE PER METRO DEPARTMENT OF PUBLIC WORKS TECHNICAL SPECIFICATIONS, SECTION 02522.
- IF APPROVED THE FURNISHING ZONE MAY CONTAIN LANDSCAPE MATERIALS SUCH AS CONCRETE, BRICK, OR PAVERS.
- COMPACTED STONE BASE, PUG MILL MIX, 4" THICK SHALL BE APPLIED TO SUB GRADE PRIOR TO INSTALLING SIDEWALK.
- FURNISHING ZONE IS AN AREA FOR OBSTRUCTIONS IN THE SIDEWALK. EXAMPLES ARE OUTDOOR CAFES, POWER POLES, FIRE HYDRANTS, SIGNS, ETC.
- IN THE EVENT OF ANY CONFLICT, DISCREPANCY, OR INCONSISTENCY AMONG THE PLANS AND THESE STANDARD DETAILS, THE REQUIREMENTS OF THE STANDARD DETAILS SHALL GOVERN.

NTS

METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS	SIDEWALK CONSTRUCTION	DWG. NO. ST-210
DIR. OF ENG.: <i>D.P. ...</i>	DATE: 9/12/17	REVISED: 05/02/03 REVISED: 11/24/03 REVISED: 06/23/04 REVISED: 09/11/17



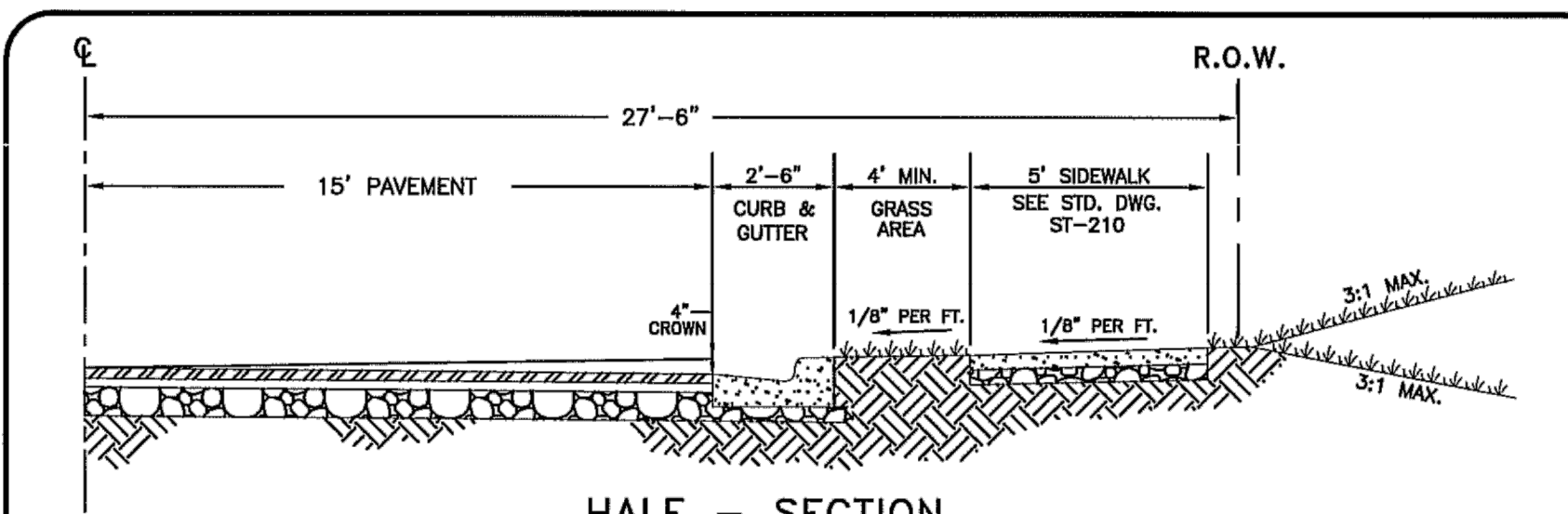
TYPICAL EXPANSION JOINT DETAIL

- GENERAL NOTES**
- EXPANSION JOINTS TO BE PLACED AS SHOWN ON THIS DRAWING OR AS DIRECTED BY THE ENGINEER, AT CURB RETURNS, WHERE BUILDINGS ARE ADJACENT TO SIDEWALKS, AND AT WALKWAYS.
 - COST OF ALL EXPANSION JOINTS TO BE INCLUDED IN UNIT BID PRICE FOR SIDEWALKS.
 - ONE-HALF INCH EXPANSION JOINTS TO BE USED IN ALL LOCATIONS.
 - THIS METRO STANDARD DRAWING IS FOR THE EXPANSION JOINTS IN SIDEWALKS. SEE OTHER METRO STANDARD DRAWINGS FOR CURB RAMP PLACEMENT, SIDEWALK DETAILS, OBSTRUCTIONS, ETC.
 - THE EXPANSION JOINT MATERIAL SHALL BE RECYCLED MATERIAL 1/2" THICK AS MANUFACTURED BY J.D. RUSSELL COMPANY, 1-800-888-8872, WWW.JDRUSSELLCOMPANY.COM, OR APPROVED EQUAL.

NOT TO SCALE

METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS	STANDARD EXPANSION JOINT FOR CONCRETE SIDEWALK	DWG. NO. ST-209
DIR. OF ENG.: <i>Mark May</i>	DATE: 5/12/03	REVISED: 03/01/02 REVISED: 05/02/03

METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS	RESIDENTIAL STREET PARKING (55' R.O.W.)	DWG. NO. ST-252B
DIR. OF ENG.: <i>Mark May</i>	DATE: 2/7/09	REVISED: 11/11/09



HALF - SECTION

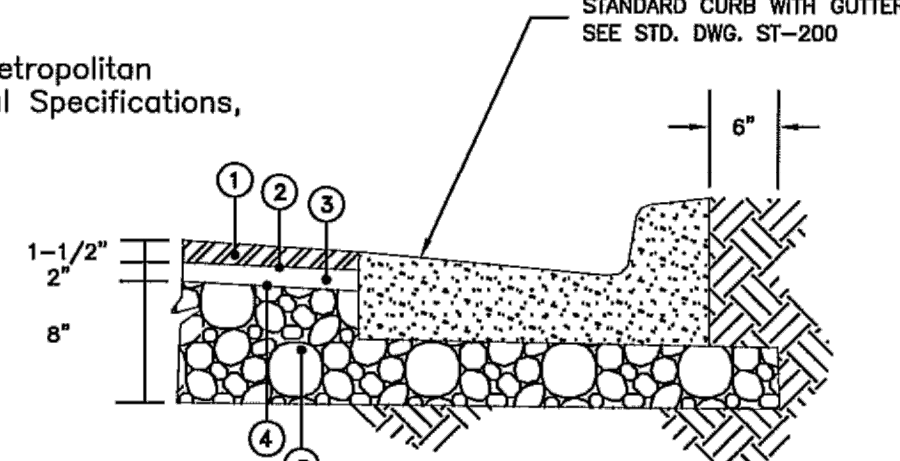
General Notes

- Placement of sidewalks shall be in accordance with the Subdivision Regulations of the Metropolitan Planning Commission, latest revision.
- Construction shall conform to the Metropolitan Department of Public Works Technical Specifications, latest revision.

PAVEMENT SCHEDULE

- 1-1/2" ASPHALTIC CONCRETE SURFACE (411D)
- TACK COAT (SS-1)
- 2" BITUMINOUS BINDER (B-M2)
- PRIME COAT (RS-2)
- 8" STONE (GRADING D PUG MILL MIX)

PAVEMENT COURSES



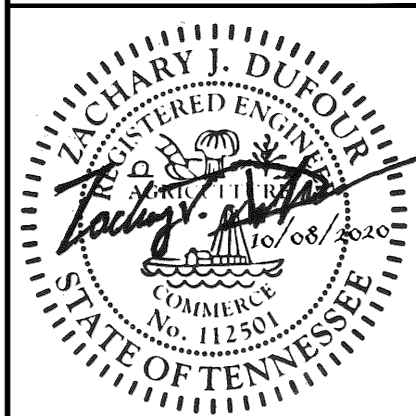
NOT TO SCALE

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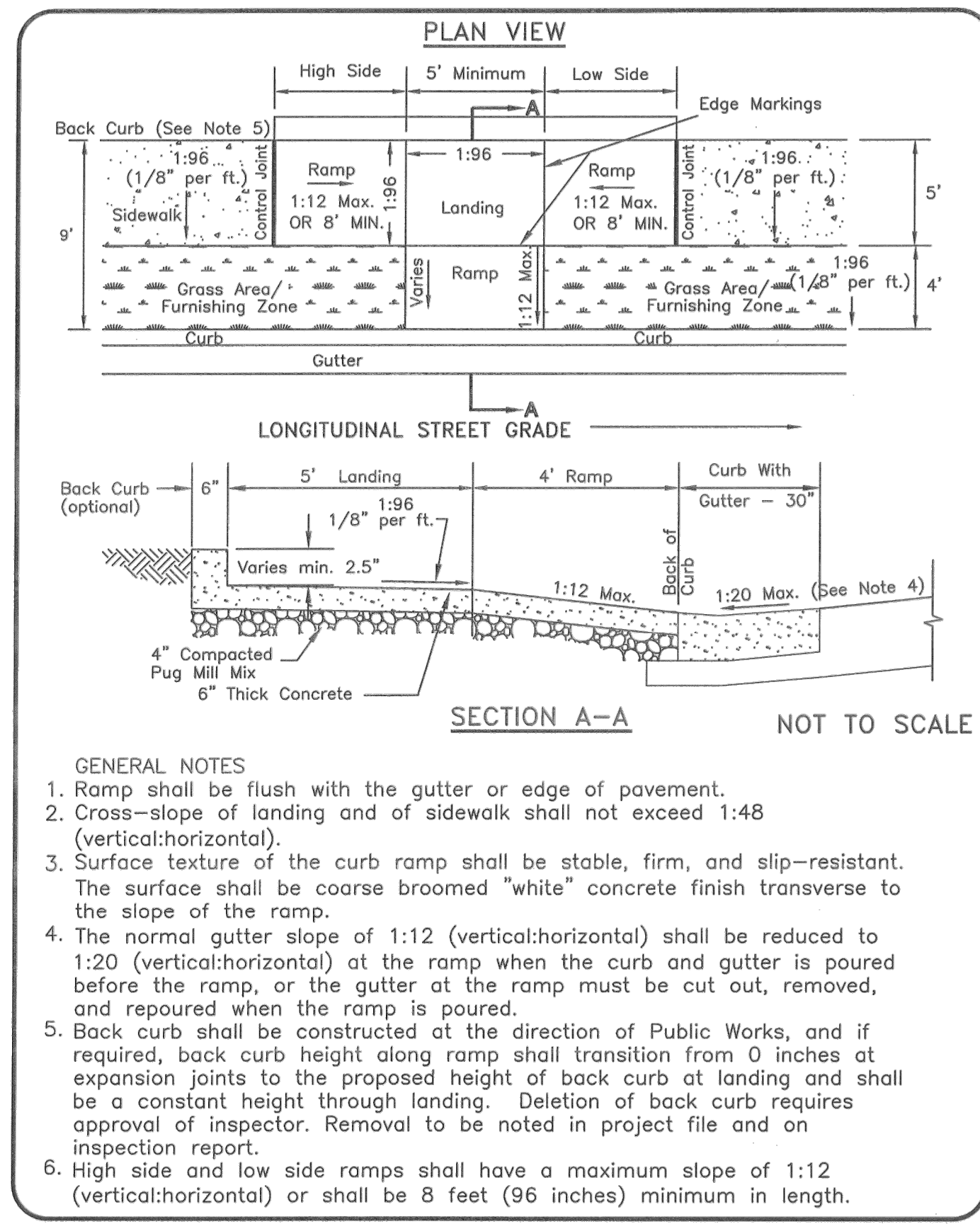
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MDHA
NASHVILLE, TN



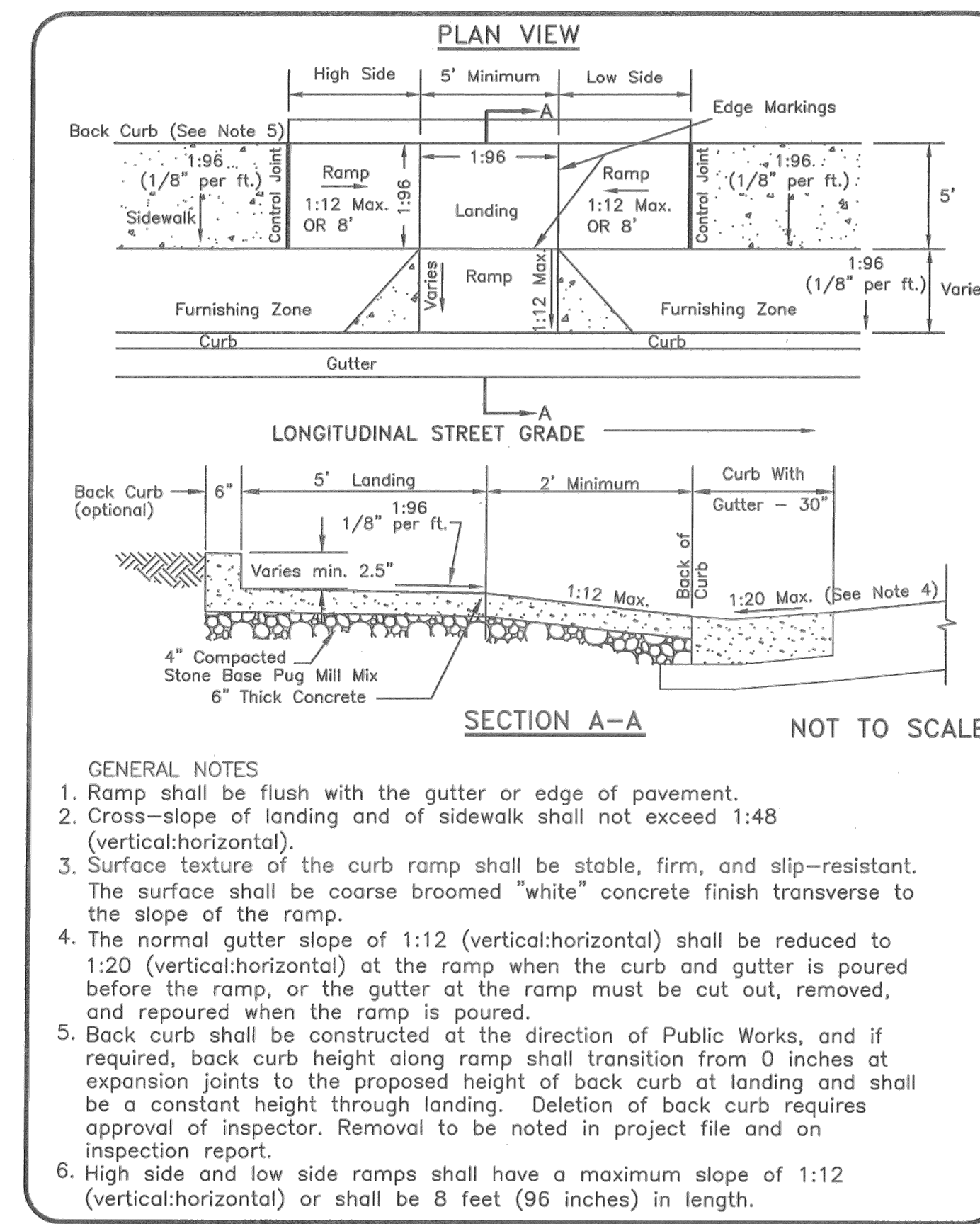
DESIGNED BY:	KKF
DRAWN BY:	LEB
CHECKED BY:	ZJD
DATE:	10/08/2020
KIMLEY-HORN PROJECT NO.:	118109016

ROADWAY DETAILS
SHEET NUMBER
C8-02A

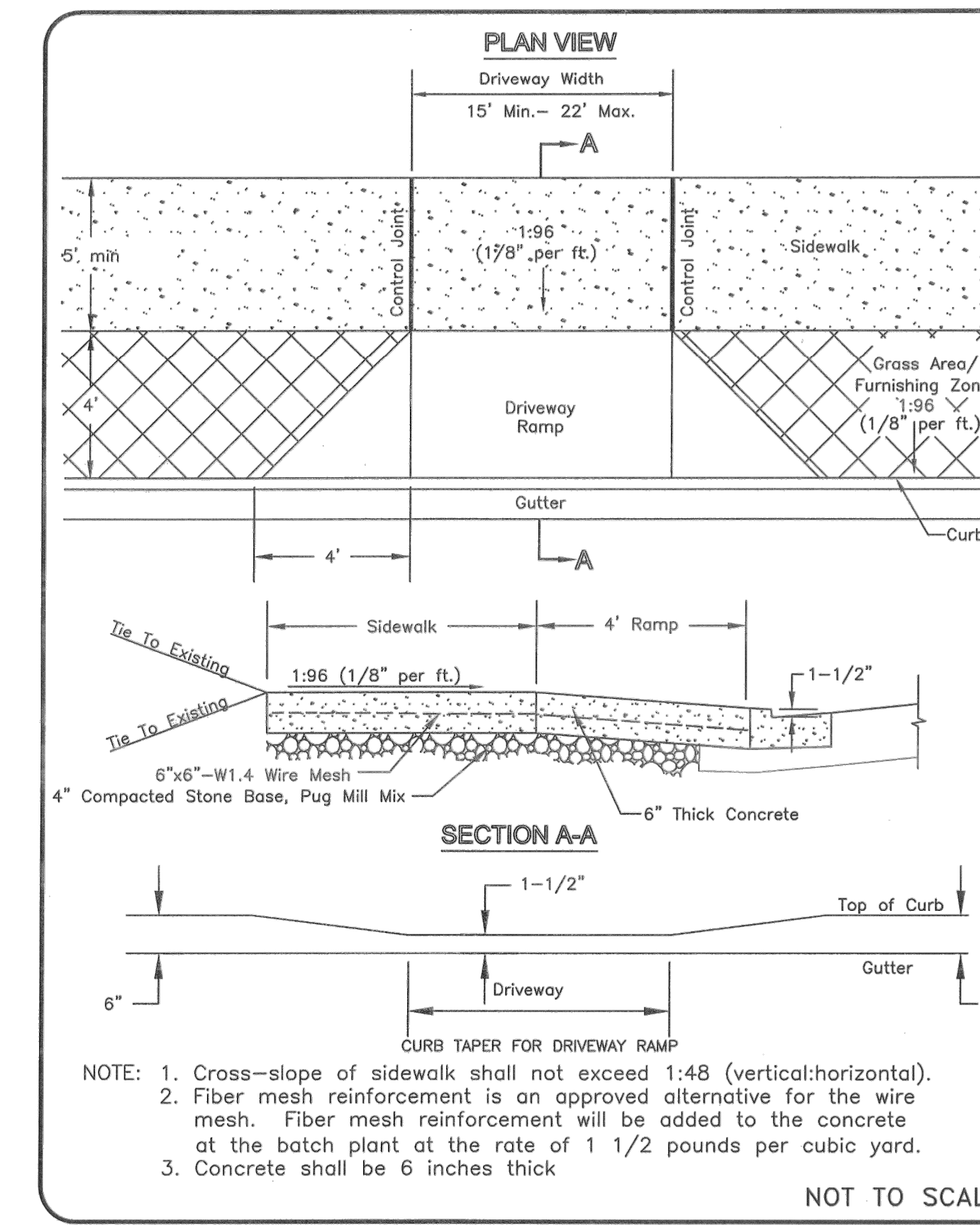
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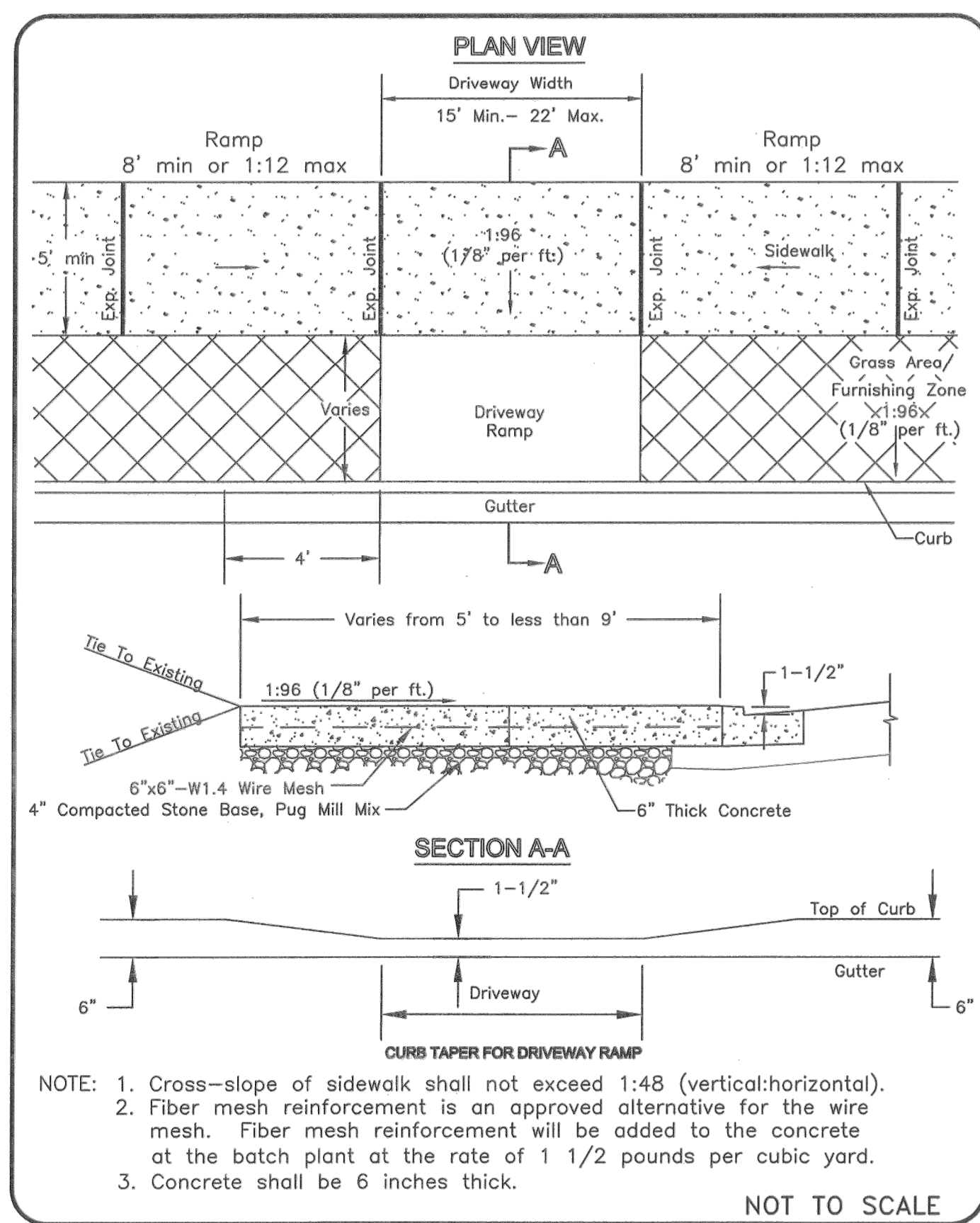
METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS	NEW CONSTRUCTION CURB RAMP	DWG. NO. ST-320
DIR. OF ENG.: <i>Mark May</i>	DATE: 5/12/03	REVISED: 07/18/02 REVISED: 05/08/03



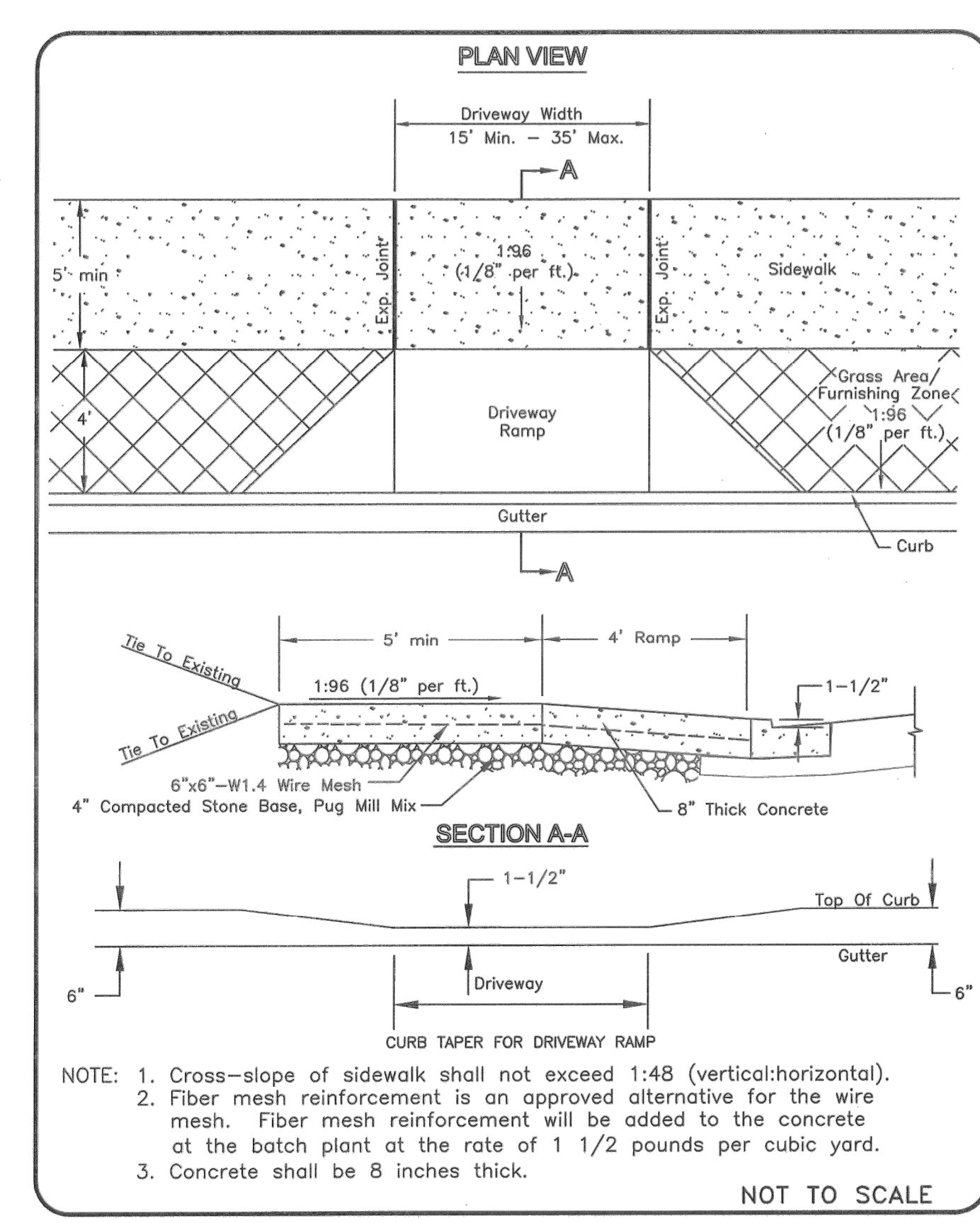
METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS	ALTERATION CONSTRUCTION CURB RAMP WITH SIDEWALK LESS THAN 9 FEET	DWG. NO. ST-321
DIR. OF ENG.: <i>Mark May</i>	DATE: 7/15/04	REVISED: 06/30/03 REVISED: 07/31/02 REVISED: 05/08/03



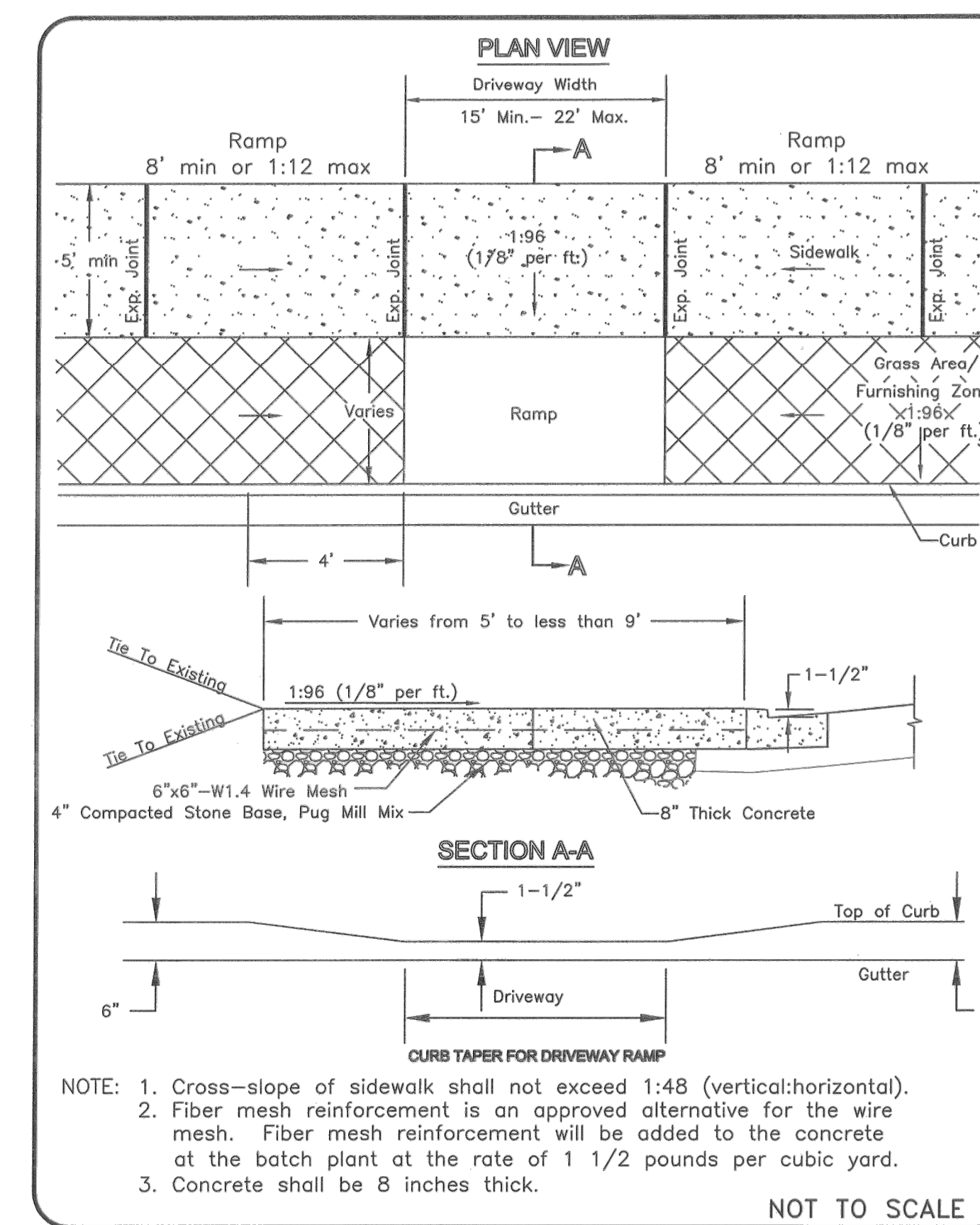
METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS	NEW CONSTRUCTION RESIDENTIAL DRIVEWAY RAMP	DWG. NO. ST-322
DIR. OF ENG.: <i>Mark May</i>	DATE: 5/12/03	REVISED: 07/27/02 REVISED: 05/08/03



METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS	ALTERATION CONSTRUCTION RESIDENTIAL DRIVEWAY RAMP WITH SIDEWALK LESS THAN 9 FEET	DWG. NO. ST-323
DIR. OF ENG.: <i>Mark May</i>	DATE: 5/12/03	REVISED: 01/27/03 REVISED: 05/08/03



METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS	NEW CONSTRUCTION COMMERCIAL DRIVEWAY RAMP	DWG. NO. ST-324
DIR. OF ENG.: <i>Mark May</i>	DATE: 5/12/03	REVISED: 07/27/02 REVISED: 05/08/03

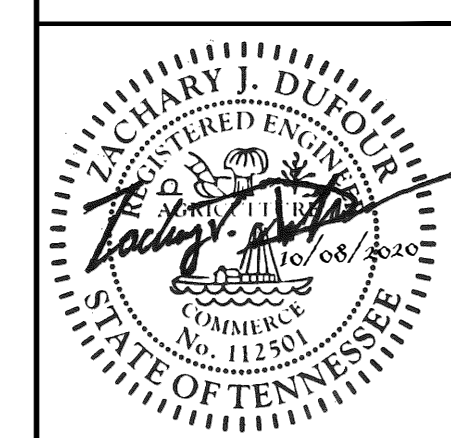


METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS	ALTERATION CONSTRUCTION COMMERCIAL DRIVEWAY RAMP WITH SIDEWALK LESS THAN 9 FEET	DWG. NO. ST-325
DIR. OF ENG.: <i>Mark May</i>	DATE: 5/12/03	REVISED: 01/27/03 REVISED: 05/08/03

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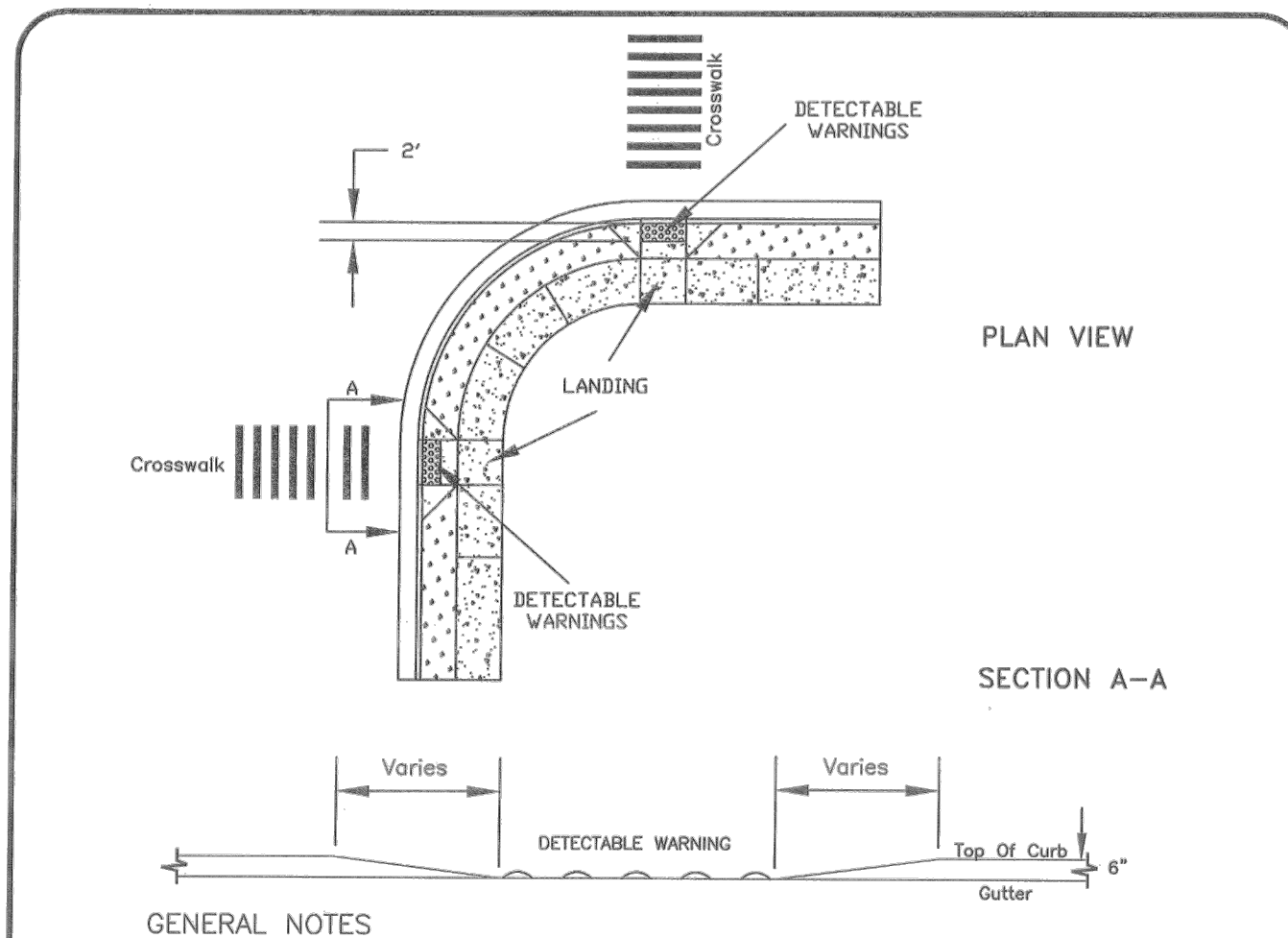
DESIGNED BY:	KKF
DRAWN BY:	LEB
CHECKED BY:	ZJD
DATE:	10/08/2020
KIMLEY-HORN PROJECT NO.:	118109016

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REVISIONS									

ROADWAY DETAILS
SHEET NUMBER
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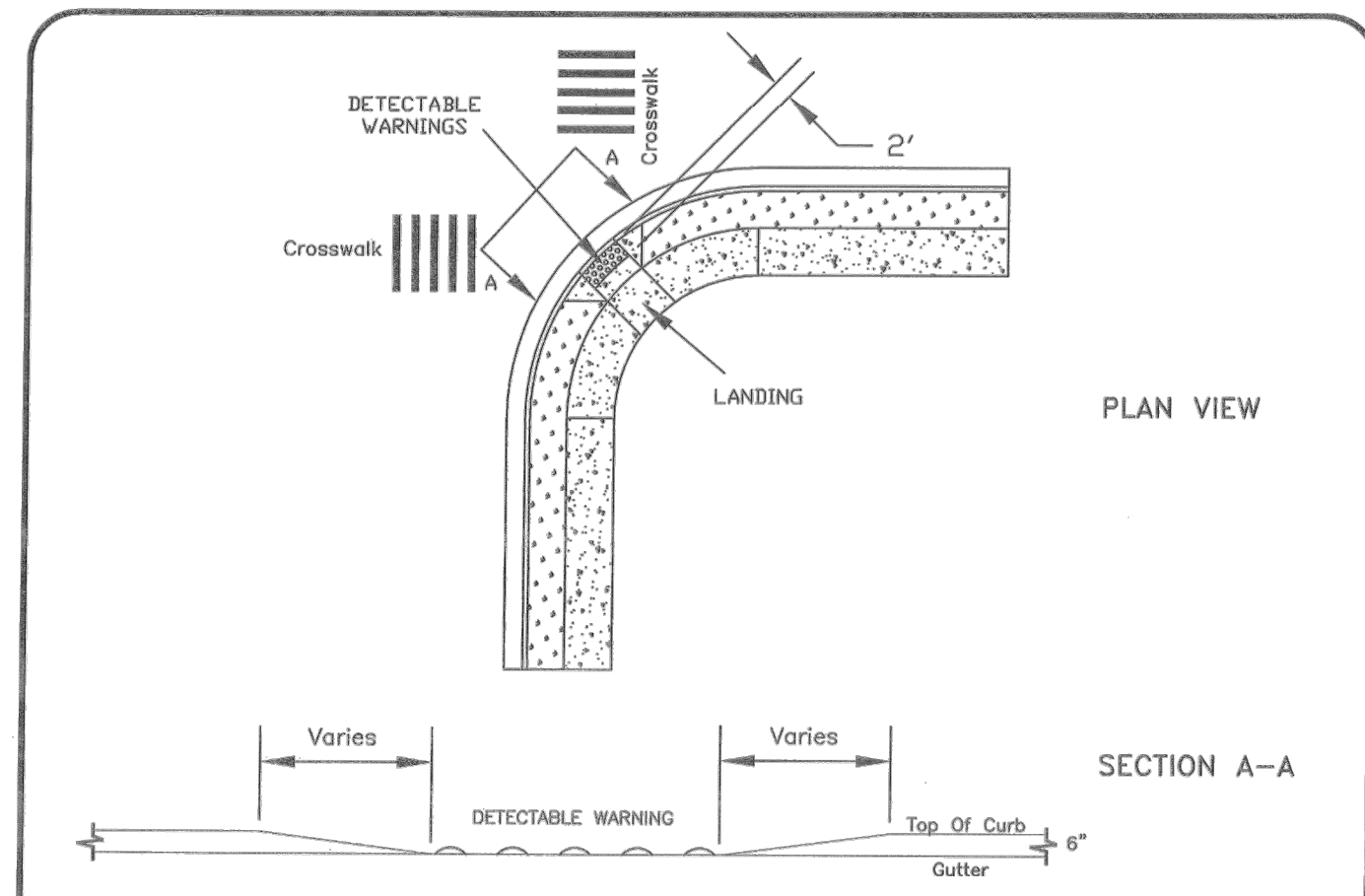


GENERAL NOTES

- FOR CURB RADIUS EQUAL TO OR LESS THAN 25'.
- SEE CURB RAMP STANDARD DRAWINGS FOR CONSTRUCTION DETAILS.
- ALL MARKINGS TO CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- THE LAYOUT, SIZE, DIMENSIONS, HEIGHT OF THE DETECTABLE WARNINGS SHALL MEET THE LATEST DESIGN STANDARDS AS ISSUED BY THE ACCESS BOARD.
- THE DETECTABLE WARNINGS AND INSTALLATIONS SHALL MEET THE MPW SPECIFICATION 02523.
- IN THE EVENT OF ANY CONFLICT, DISCREPANCY, OR INCONSISTENCY AMONG THE PLANS AND THESE STANDARD DETAILS, THE REQUIREMENTS OF THE STANDARD DETAILS SHALL GOVERN.
- THE COLOR OF THE DETECTABLE WARNING STRIP SHALL BE "SAFETY YELLOW".

NOT TO SCALE

METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS	DETECTABLE WARNINGS AT CURB RETURNS WITH RADIUS 25' OR LESS	DWG. NO. ST-329
DIR. OF ENG.: <i>Mark Macy</i>	DATE: 6/17/05	REVISED: 06/17/05 REVISED: 08/13/04 REVISED:

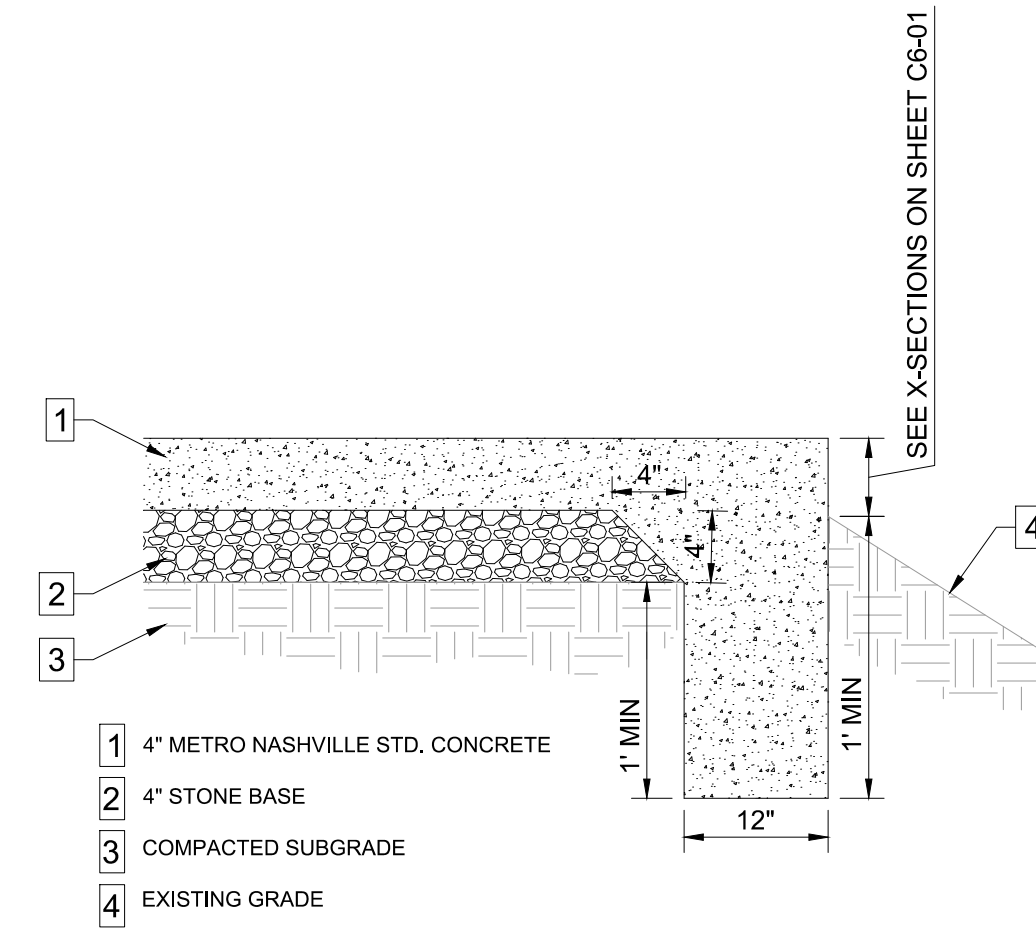


GENERAL NOTES

- FOR CURB RADIUS GREATER THAN 25'.
- SEE CURB RAMP STANDARD DRAWINGS FOR CONSTRUCTION DETAILS.
- ALL MARKINGS TO CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- THE LAYOUT, SIZE, DIMENSIONS, HEIGHT OF THE DETECTABLE WARNINGS SHALL MEET THE LATEST DESIGN STANDARDS AS ISSUED BY THE ACCESS BOARD.
- THE DETECTABLE WARNINGS AND INSTALLATIONS SHALL MEET THE MPW SPECIFICATION 02523.
- IN THE EVENT OF ANY CONFLICT, DISCREPANCY, OR INCONSISTENCY AMONG THE PLANS AND THESE STANDARD DETAILS, THE REQUIREMENTS OF THE STANDARD DETAILS SHALL GOVERN.
- THE COLOR OF THE DETECTABLE WARNING STRIP SHALL BE "SAFETY YELLOW".

NOT TO SCALE

METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS	DETECTABLE WARNINGS AT CURB RETURNS WITH RADIUS GREATER THAN 25'	DWG. NO. ST-330
DIR. OF ENG.: <i>Mark Macy</i>	DATE: 6/17/05	REVISED: 06/17/05 REVISED: 08/13/04 REVISED:

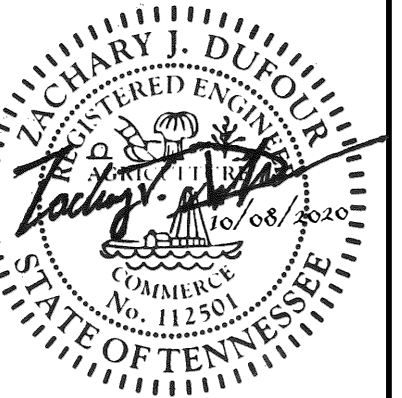


1 CONCRETE TURN DOWN SIDEWALK
SCALE: NOT TO SCALE

Kimley-Horn

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CAYCE UTILITY PHASE 1A
MDHA
NASHVILLE, TN



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DESIGNED BY:	KKF
DRAWN BY:	LEB
CHECKED BY:	ZJD
DATE:	10/08/2020
KIMLEY-HORN PROJECT NO.	118109016

ROADWAY DETAILS

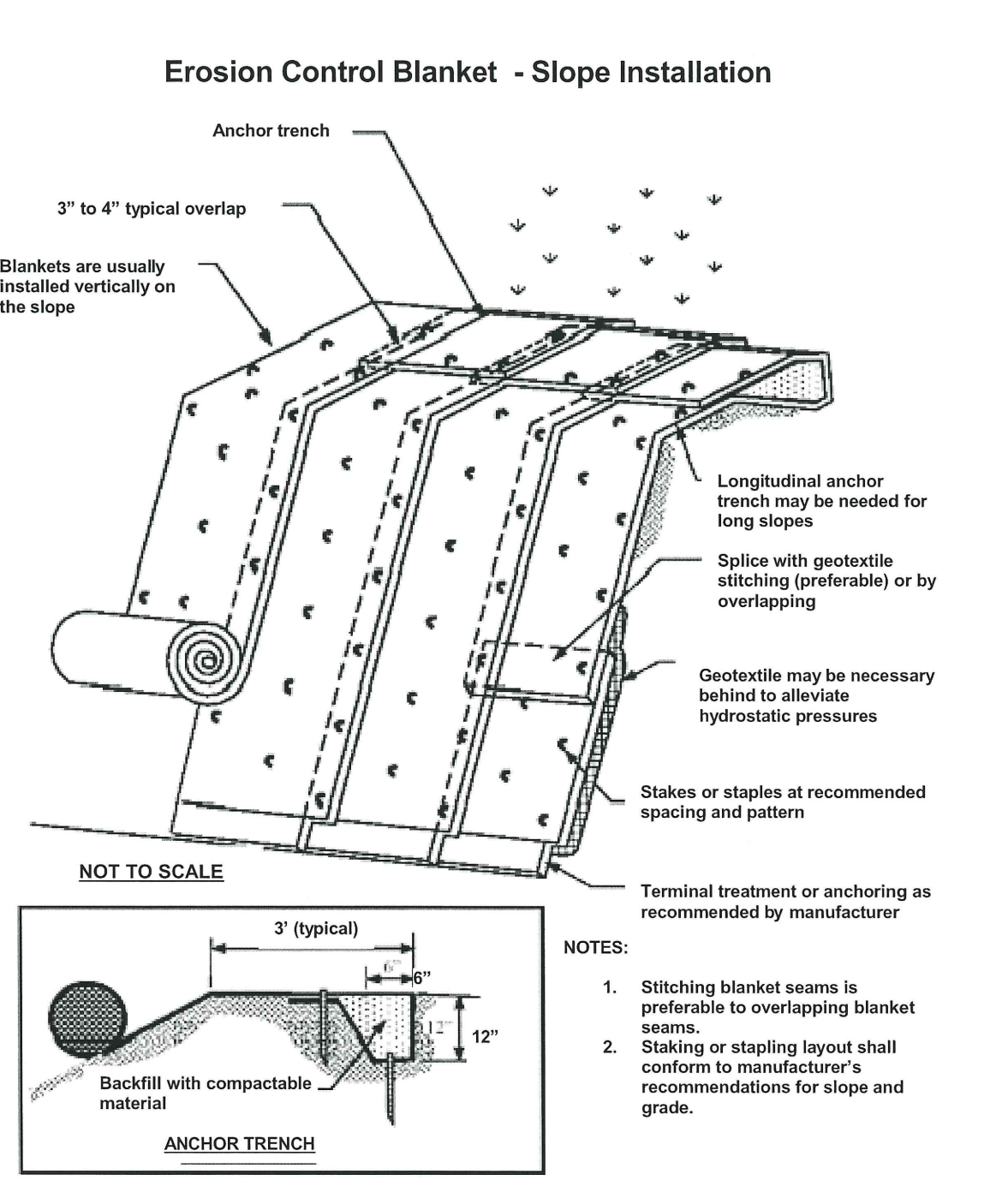
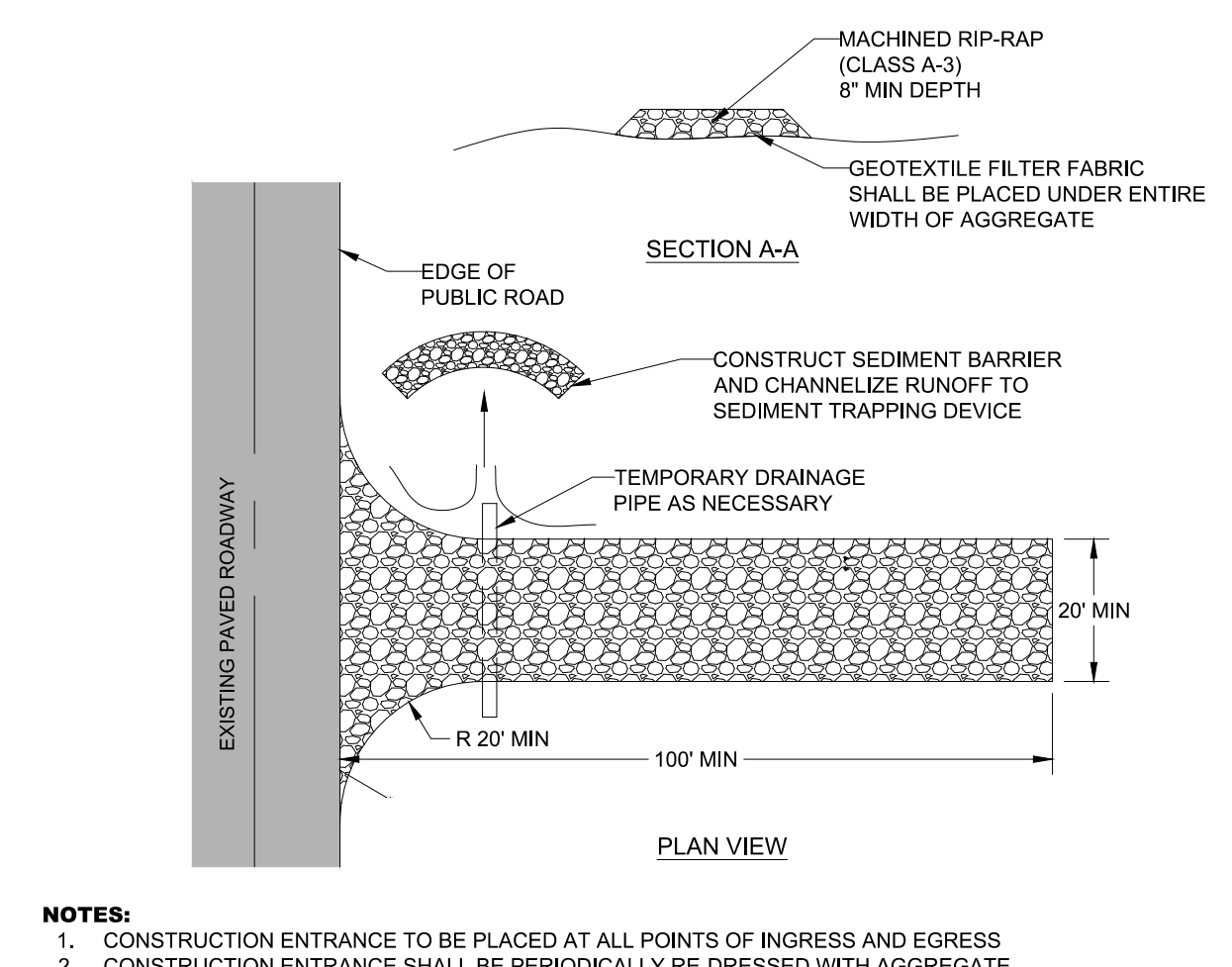
SHEET NUMBER
C8-02C

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LOW MAINTENANCE AREAS - SLOPES, POOR AND SHALLOW SOILS		
PREFERRED RATE/MIX (LB/AC PLS) 15 BROWNTOP MILLET (NURSE CROP) 5 LITTLE BLUESTEM 2 SWITCH GRASS 2 TALL DROPSEED 5 SIDCOATS GRAMMA 2 BLACK-EYED SUSAN 2 PARTRIDGE PEA 1 GREYHEADED CONEFLOWER	SEEDING DATES BEST AUG. 25 - SEP. 15 FEB. 15 - MAY 30	MARGINAL SEP. 15 - OCT. 25 MAR. 21 - MAY 30
LOW MAINTENANCE AREAS - SLOPES, SOILS > 6" DEEP		
PREFERRED RATE/MIX (LB/AC PLS) 15 BROWNTOP MILLET (NURSE CROP) 5 PURPLETOP 5 LITTLE BLUESTEM 5 VIRGINIA WILD RYE 2 BLACK-EYED SUSAN 2 PARTRIDGE PEA 1 GREYHEADED CONEFLOWER	SEEDING DATES BEST AUG. 25 - SEP. 15 FEB. 15 - MAY 30	MARGINAL SEP. 15 - OCT. 25 MAR. 21 - APR. 15
HIGH MAINTENANCE AREAS - LAWNS, ETC.		
PREFERRED RATE/MIX (LB/AC PLS) 15 BROWNTOP MILLET (NURSE CROP) 2 PARTRIDGE PEA 45 RED FESCUE 45 HARD FESCUE 25 CHEWING FESCUE	SEEDING DATES BEST AUG. 30 - OCT. 15	MARGINAL FEB. 15 - APR. 15

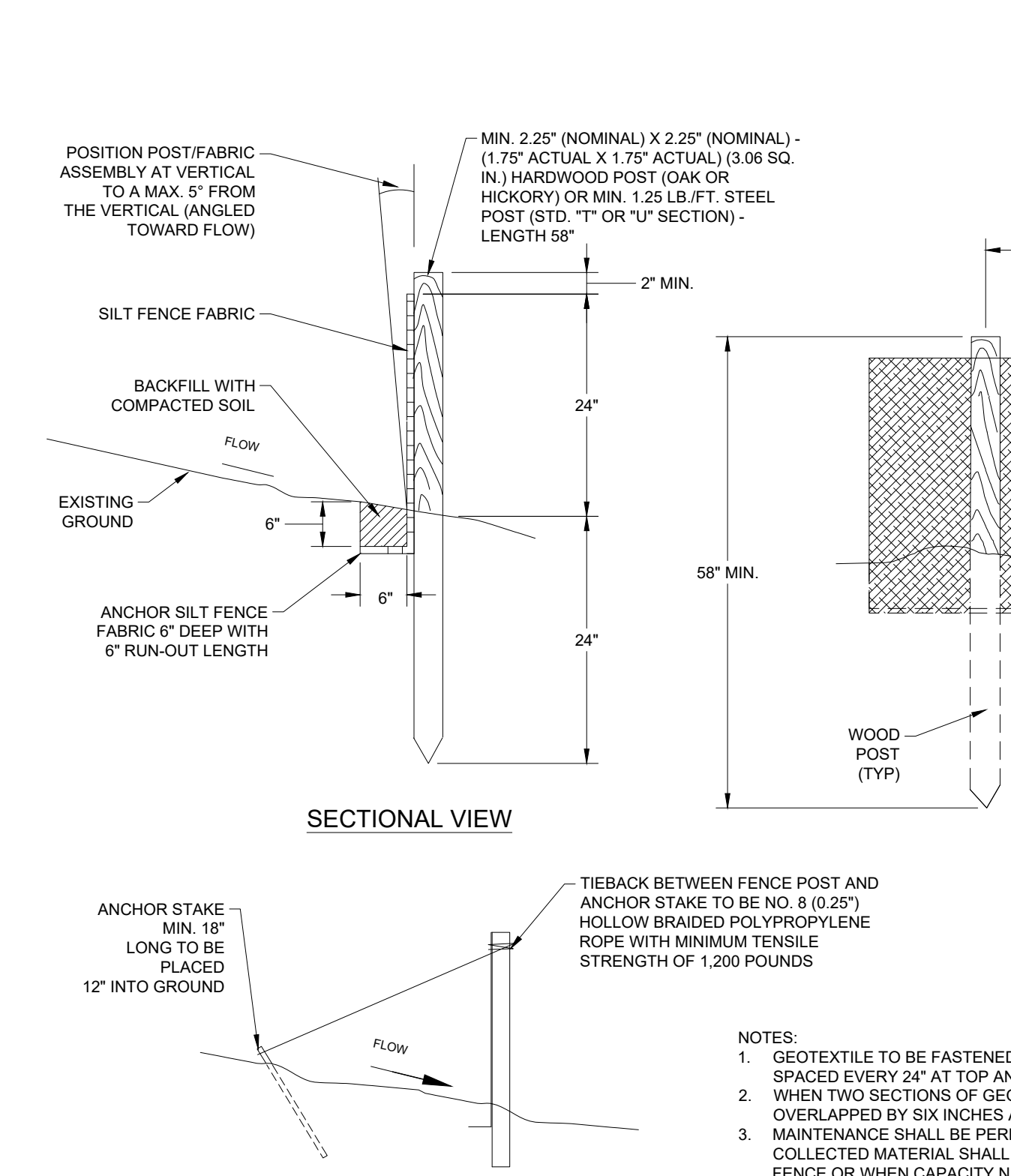
LATE WINTER/EARLY SPRING PLANTING		SUMMER PLANTING	
SPECIES RYE	RATE (LB/ACRE) 120	SPECIES OATS	RATE (LB/ACRE) 60
SEEDING DATES EAST ABOVE 2500 FEET: FEB. 15 - MAY 15 MIDDLE BELOW 2500 FEET: FEB. 1 - MAY 1 WEST JAN. 1 - MAY 1 DEC. 1 - APR. 15		SEEDING DATES EAST MAY 15 - AUG. 15 MIDDLE MAY 1 - AUG. 15 WEST APR. 15 - AUG. 15	
MAINTENANCE REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.		MAINTENANCE REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.	
FAIR PLANTING		ALL SEASON NOTES	
SPECIES OATS WINTER WHEAT	RATE (LB/ACRE) 30 30	SOIL AMENDMENTS FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.	
SEEDING DATES EAST AUG. 15 - DEC. 15 MIDDLE AUG. 15 - DEC. 30 WEST AUG. 15 - DEC. 30		MULCH APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKLING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.	
MAINTENANCE REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE. IF NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/AC CRIMSON CLOVER IN LATE FEBRUARY OR EARLY MARCH.			



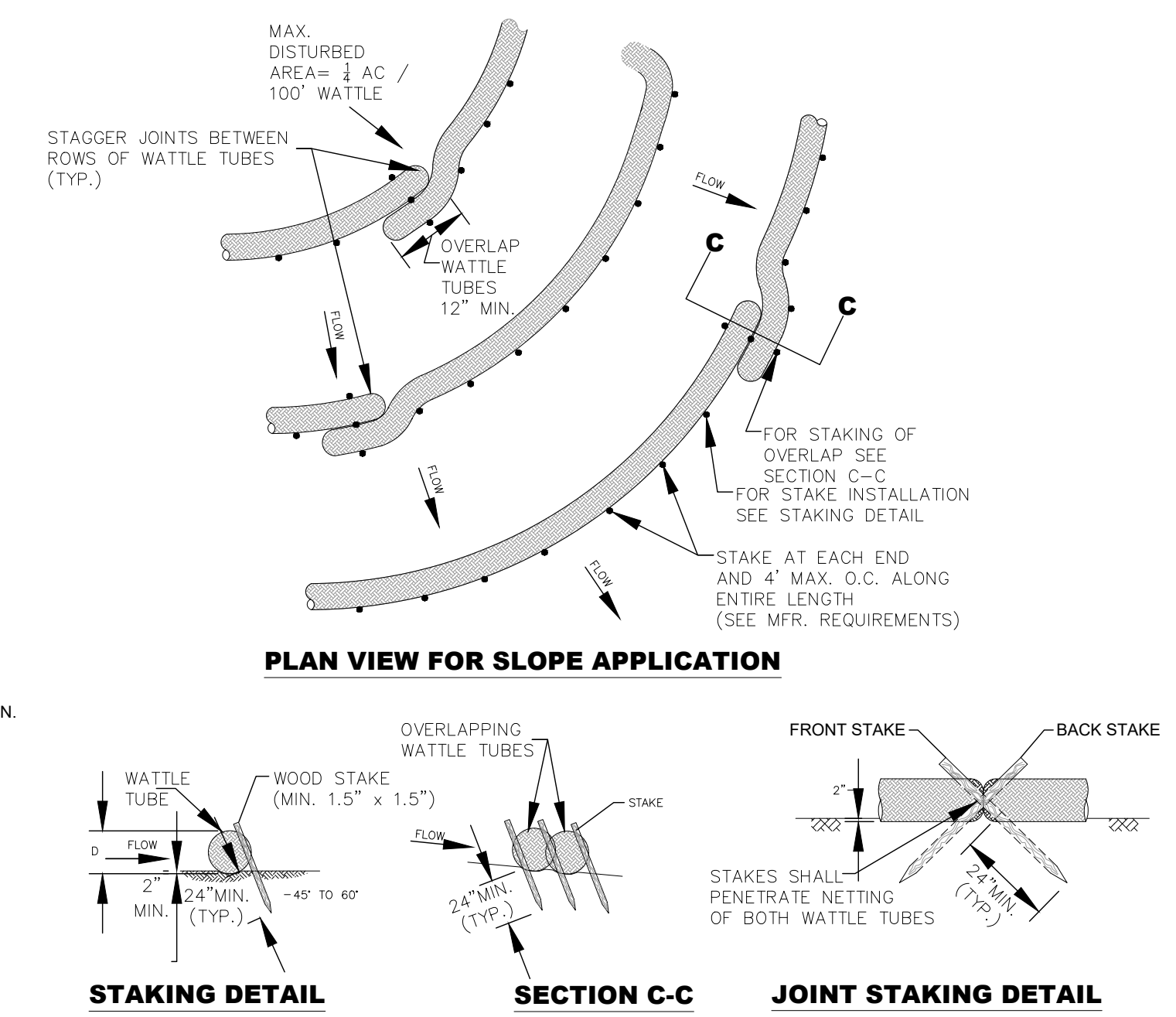
- NOTES:**
- MIXES INDICATED ABOVE ARE FOR THE REGION II PLANTING AREA (MIDDLE TENNESSEE).
 - PERMANENT STABILIZATION MEASURES SHALL BE DONE IN ACCORDANCE WITH TDEC EROSION AND SEDIMENT CONTROL HANDBOOK, FOURTH EDITION OR NEWER. REFER TO LANDSCAPE PLANS FOR PERMANENT STABILIZATION PRACTICES AND AREAS TO RECEIVE SOD.
 - SLOPES STEEPER THAN 3:1 SHALL RECEIVE LOW MAINTENANCE PERMANENT STABILIZATION SUCH AS WEEPING LOVEGRASS OR OTHER NATIVE GROUND COVER AS PROPOSED BY THE LANDSCAPE CONTRACTOR.

- NOTES:**
- TEMPORARY STABILIZATION MEASURES SHALL BE DONE IN ACCORDANCE WITH TDEC EROSION AND SEDIMENT CONTROL HANDBOOK, FOURTH EDITION OR NEWER.

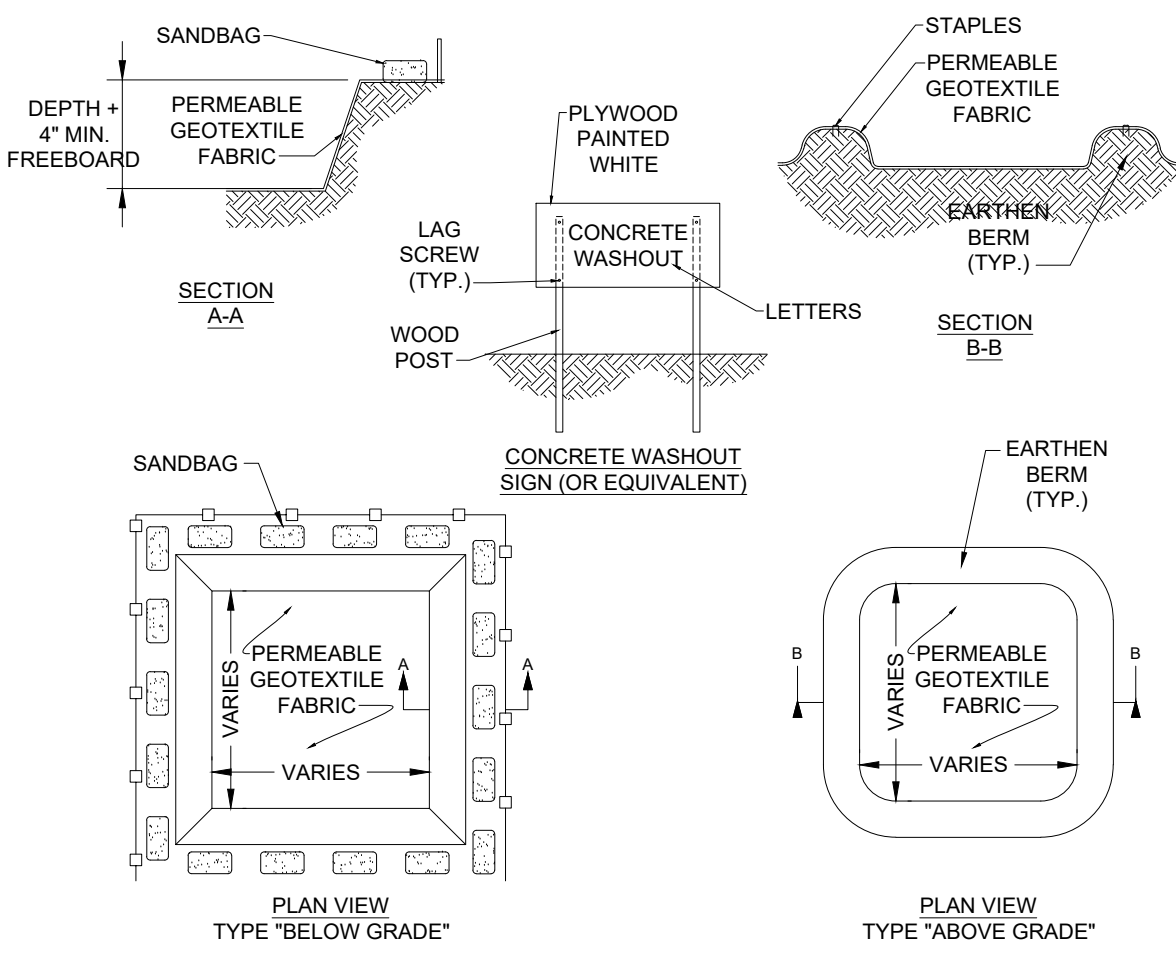
1 PERMANENT STABILIZATION
SCALE: NOT TO SCALE



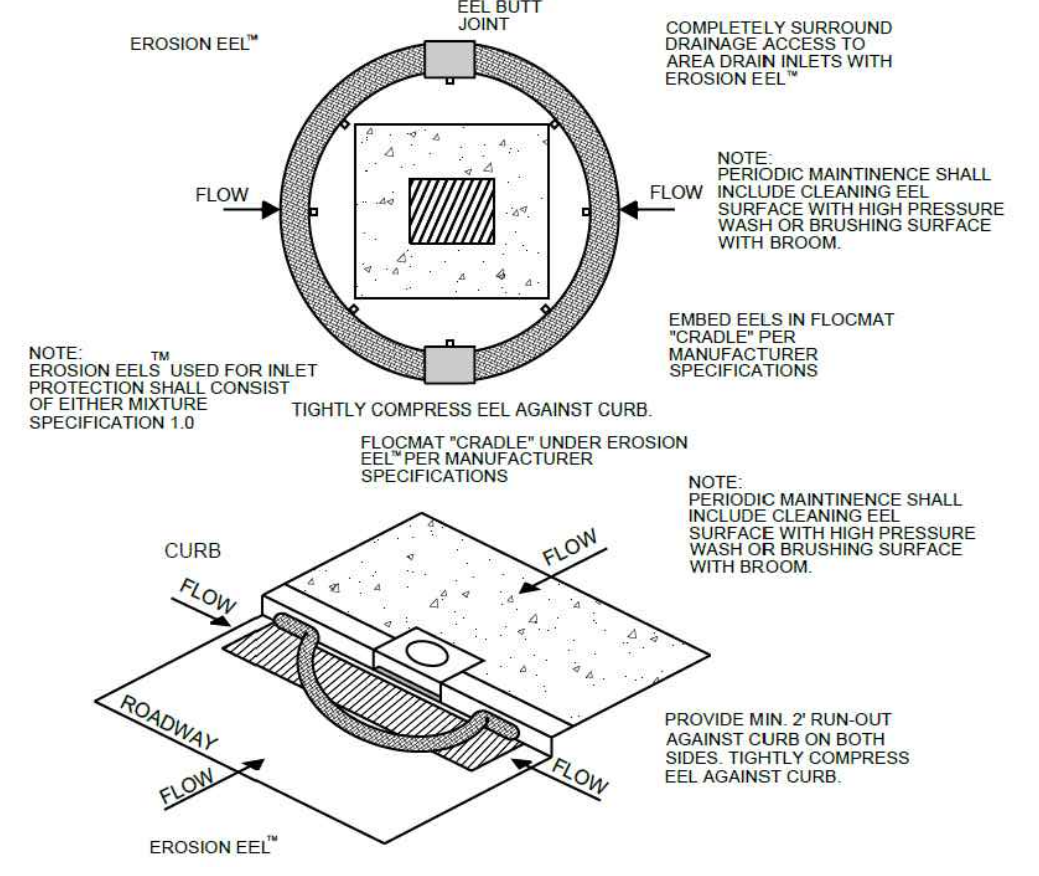
2 TEMPORARY STABILIZATION
SCALE: NOT TO SCALE



3 CONSTRUCTION ENTRANCE
SCALE: NOT TO SCALE



4 EROSION CONTROL MATTING
SCALE: NOT TO SCALE

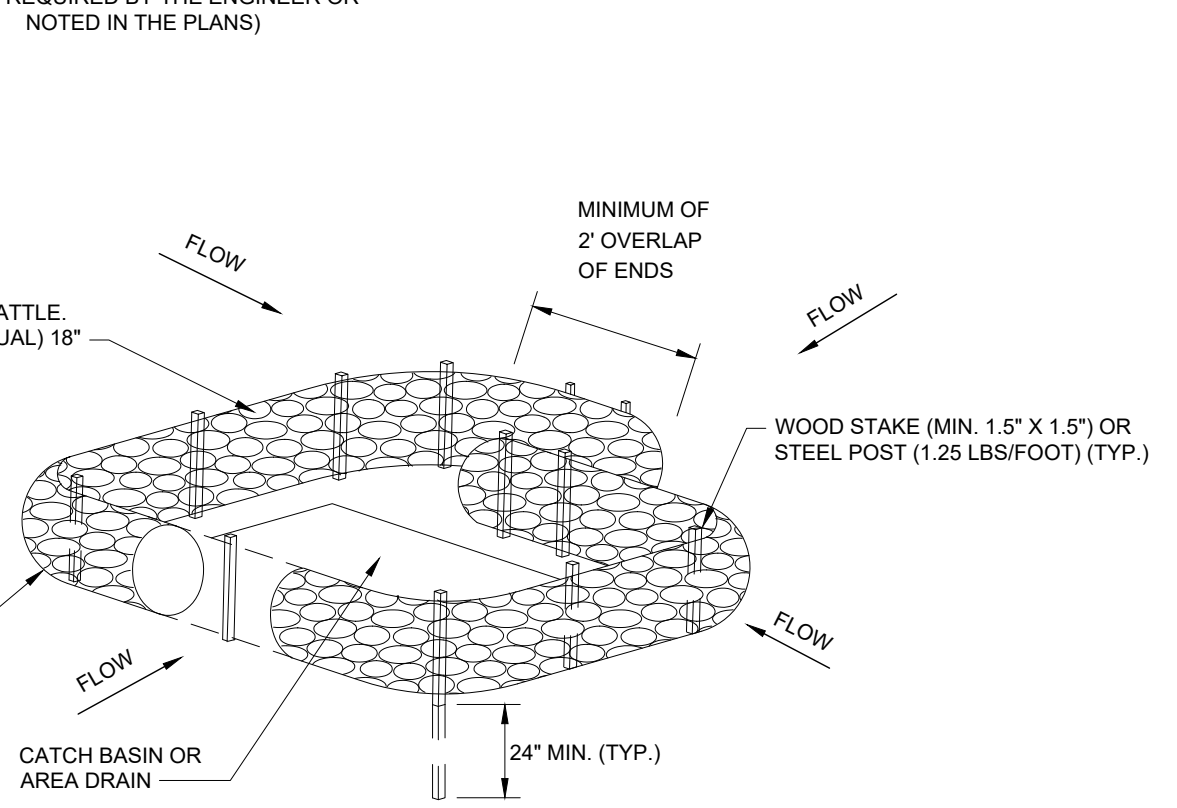


6 EROSION EELS
SCALE: NOT TO SCALE

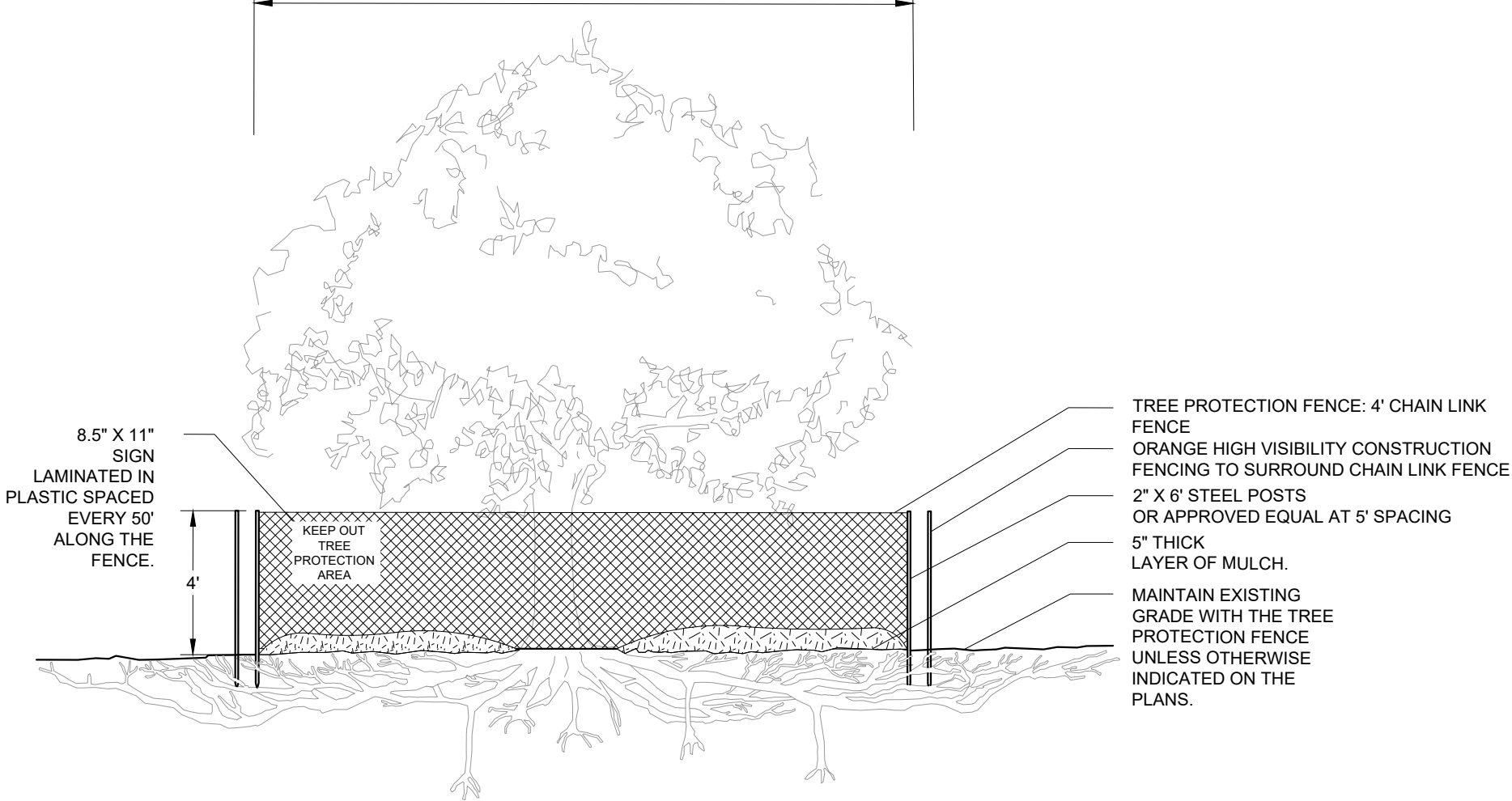
7 CONCRETE WASHOUT
SCALE: NOT TO SCALE

8 CATCH BASIN PROTECTION
SCALE: NOT TO SCALE

5 SILT FENCE
SCALE: NOT TO SCALE



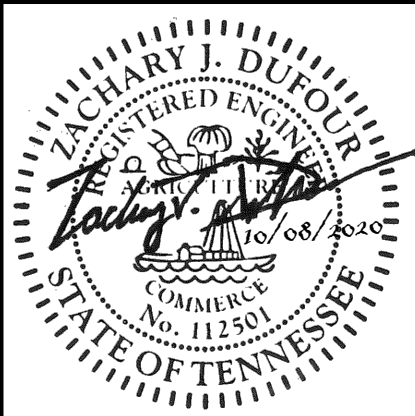
10 TREE PROTECTION FENCING
NOT TO SCALE



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CAYCE UTILITY PHASE 1A
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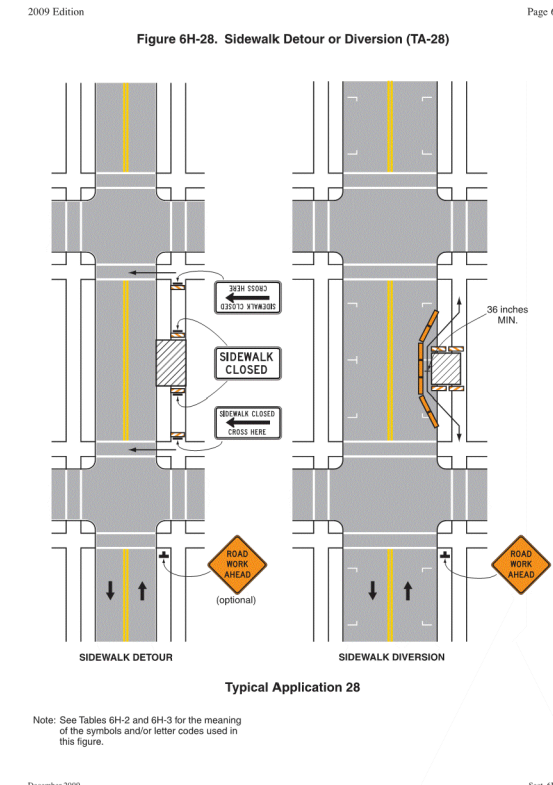
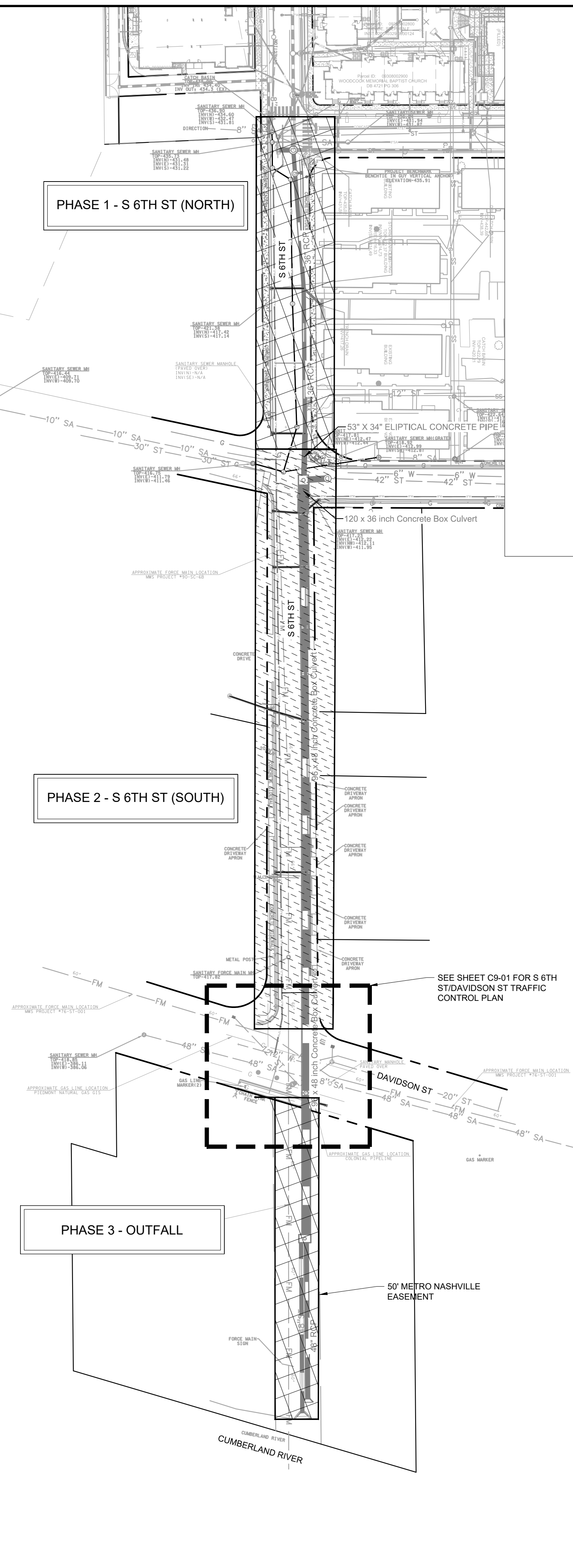


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DESIGNED BY: KKF
DRAWN BY: LEB
CHECKED BY: ZJD
DATE: 10/08/2020
KIMLEY-HORN PROJECT NO. 118109016

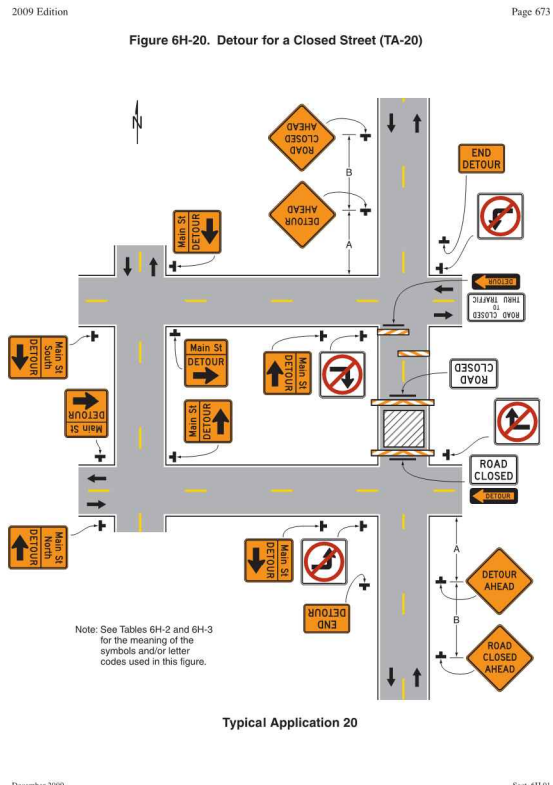
EROSION CONTROL
DETAILS
SHEET NUMBER
C8-03

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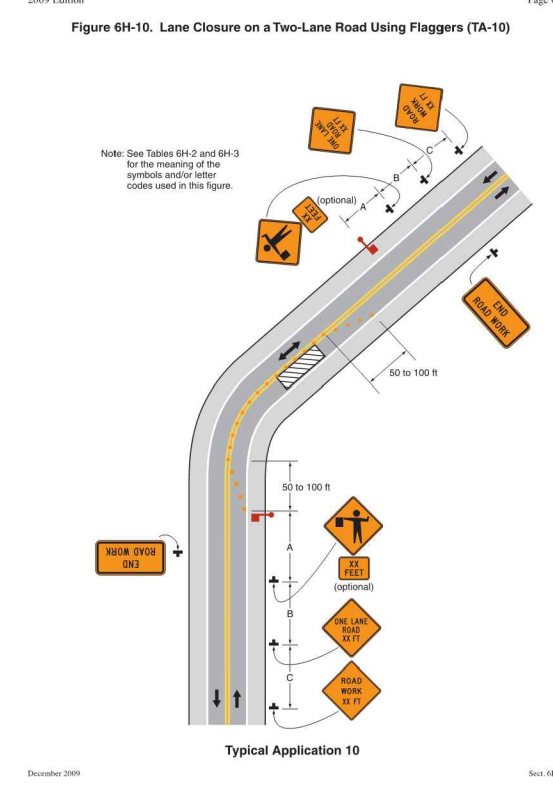
Notes for Figure 6H-28 - Typical Application 20
Sidewalk Detour or Diversion

- When concrete or other pedestrian facilities are closed or reduced, temporary facilities shall be provided and shall include non-slip surfaces, adequate lighting, and barriers to prevent the crossing of traffic.
- When concrete or other pedestrian facilities are closed or reduced, temporary facilities shall be provided and shall include non-slip surfaces, adequate lighting, and barriers to prevent the crossing of traffic.
- When concrete or other pedestrian facilities are closed or reduced, temporary facilities shall be provided and shall include non-slip surfaces, adequate lighting, and barriers to prevent the crossing of traffic.
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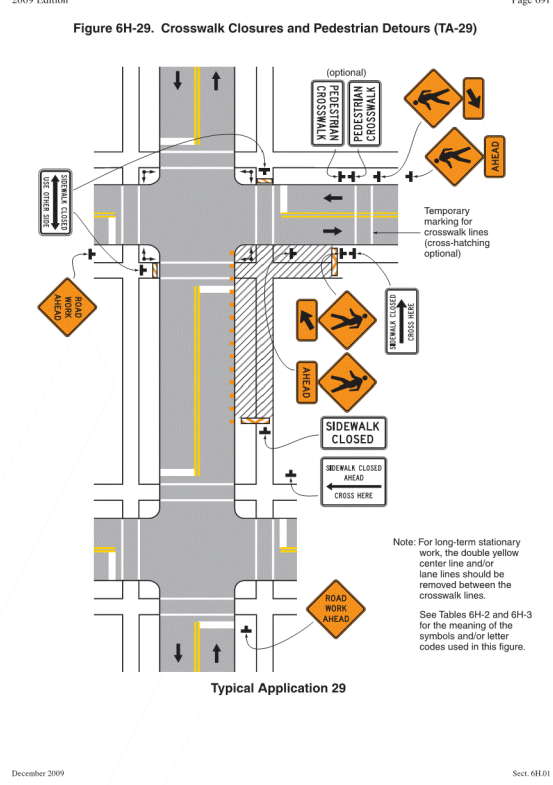
Notes for Figure 6H-29 - Typical Application 20
Detour for a Closed Street

- Flashing warning lights shall be used to indicate the detour.
- Flashing warning lights shall be used to indicate the detour.
- Flashing warning lights shall be used to indicate the detour.
- Flashing warning lights shall be used to indicate the detour.



Notes for Figure 6H-10 - Typical Application 10
Lane Closure on a Two-Lane Road Using Flaggers

- Flaggers shall be trained and certified.
- Flaggers shall be trained and certified.
- Flaggers shall be trained and certified.
- Flaggers shall be trained and certified.



Notes for Figure 6H-29 - Typical Application 20
Crosswalk Closure and Pedestrian Detour

- When concrete or other pedestrian facilities are closed or reduced, temporary facilities shall be provided and shall include non-slip surfaces, adequate lighting, and barriers to prevent the crossing of traffic.
- When concrete or other pedestrian facilities are closed or reduced, temporary facilities shall be provided and shall include non-slip surfaces, adequate lighting, and barriers to prevent the crossing of traffic.

MAINTENANCE OF TRAFFIC GENERAL NOTES

- TRAFFIC CONTROL SHALL COMPLY WITH THE LATEST VERSION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THIS MAINTENANCE OF TRAFFIC PLAN, AND/OR AS DIRECTED BY METRO NASHVILLE PUBLIC WORKS.
- CONSTRUCTION WORK HOURS SHALL BE IN ACCORDANCE WITH THE METRO NASHVILLE CODE OF ORDINANCES. NIGHT WORK MAY BE PERFORMED UPON APPROVAL BY MDHA AND WITH A PERMIT FROM THE METRO NASHVILLE CODES DEPARTMENT.
- THE CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS TO MDHA AND METRO NASHVILLE PUBLIC WORKS PRIOR TO INSTALLATION OF TRAFFIC CONTROL DEVICES FOR EACH PHASE.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL EITHER MAINTAIN APPROPRIATE SIGHT DISTANCE TO ALL TRAFFIC SIGNS OR PROVIDE FOR TEMPORARY SIGNAGE OR FLAGGERS TO GUIDE TRAFFIC THROUGH WORK ZONES. THE MINIMUM LANE WIDTH SHOULD BE 10 FEET.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE ENTRANCES AND DRIVEWAYS AT ALL TIMES. THE CONTRACTOR MAY REQUEST A DRIVEWAY CLOSURE FROM MDHA WITH 7 DAYS NOTICE. MDHA CANNOT GUARANTEE APPROVAL OF A DRIVEWAY CLOSURE REQUEST. IF A DRIVEWAY CLOSURE IS APPROVED BY MDHA AND THE AFFECTED PROPERTY OWNER, THE CONTRACTOR SHALL MINIMIZE THE DURATION OF ANY BLOCKAGE TO PRIVATE ENTRANCES AND DRIVEWAYS AND THE CONTRACTOR SHALL MAKE ALL PRIVATE ENTRANCES AND DRIVEWAYS ACCESSIBLE AT THE CONCLUSION OF EACH WORKDAY UNLESS DIRECTED OTHERWISE BY THE OWNER.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE RETROREFLECTIVE OR ILLUMINATED DURING NIGHT TIME HOURS.
- PEDESTRIAN TRAFFIC SHALL BE MAINTAINED AT ALL TIMES WHERE EXISTING SIDEWALKS ARE PRESENT. WHEN NECESSARY, PEDESTRIANS SHALL BE APPROPRIATELY DIRECTED WITH ADVANCED WARNING SIGNS, PLACED AT INTERSECTIONS, TO CROSS TO THE OPPOSITE SIDE OF THE ROADWAY IN ORDER TO PREVENT CONFLICT WITH MIDLOCK WORK SITES.
- BICYCLE TRAFFIC SHALL BE MAINTAINED AT ALL TIMES WHERE EXISTING BICYCLE FACILITIES ARE PRESENT.
- PEDESTRIAN AND BICYCLE TRAFFIC SHALL BE SEPARATED FROM WORK ZONES WITH APPROPRIATE MEASURES IN ACCORDANCE WITH THE MUTCD.
- ADEQUATE PROVISIONS FOR PERSONS WITH DISABILITIES SHALL BE PROVIDED AT ALL TIMES PER ADA REQUIREMENTS WHERE EXISTING ACCESSIBLE FACILITIES ARE PRESENT.
- ALL EXISTING FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS SHALL BE MAINTAINED UNOBSTRUCTED AND ACCESSIBLE AT ALL TIMES.
- ACCESS TO BUILDINGS FOR FIREPROTECTION SHALL BE MAINTAINED AT ALL TIMES. EXISTING FIRE APPARATUS ACCESS ROADS (FIRE LANES) SHALL BE KEPT CLEAR OF OBSTRUCTIONS.
- CONTRACTOR MAY WORK ON CONSTRUCTION PHASES IN ANY ORDER. CONTRACTOR MAY WORK ON MULTIPLE CONSTRUCTION PHASES SIMULTANEOUSLY PROVIDED THAT NO MORE THAN ONE ROAD CLOSURE IS IN PLACE AT ANY TIME, INCLUDING ROAD CLOSURES FOR SEPARATE CONSTRUCTION PROJECTS IN THE CAYCE HOMES NEIGHBORHOOD.
- WORK REQUIREMENTS SPECIFIC TO EACH PHASE ARE LISTED BELOW.
 - PHASE 1 - S 6TH ST (NORTH)
 - LONG-TERM CLOSURE OF LENORE GARDENS DRIVEWAY IS PERMITTED PROVIDED THAT FULL ACCESS IS MAINTAINED AT THE ALTERNATE DRIVEWAY ALONG S 7TH ST.
 - PHASE 2 - S 6TH ST (SOUTH)
 - CONTRACTOR TO MAINTAIN DRIVEWAY AND LOADING DOCK ACCESS ON BOTH SIDES OF THE STREET.
 - PHASE 3 - OUTFALL
 - THE CONTRACTOR MAY ACCESS THE PROPERTY SOUTH OF DAVIDSON STREET VIA A 50' EASEMENT. THE CONTRACTOR SHALL NOTIFY MDHA AND THE AFFECTED PROPERTY OWNER NO LESS THAN 14 DAYS IN ADVANCE OF ACTIVITIES WITHIN THE EASEMENT.
- WORK WITHIN INTERSECTIONS OTHER THAN S 6TH STREET/DAVIDSON STREET MAY BE CONDUCTED WITH ANY ADJACENT PHASE PROVIDED THAT VEHICULAR AND PEDESTRIAN ACCESS IS MAINTAINED. WORK WITHIN THE INTERSECTION OF S 6TH STREET/DAVIDSON STREET SHALL BE PERFORMED IN ACCORDANCE WITH SHEET C9-01.

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CAYCE UTILITY PHASE 1
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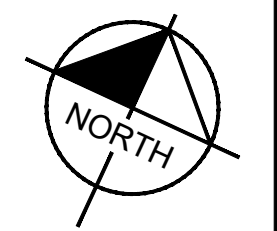
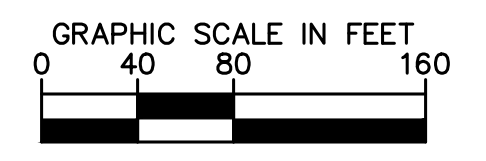


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DESIGNED BY: KKF
 DRAWN BY: LEB
 CHECKED BY: ZJD
 DATE: 08/05/2020
 KIMLEY-HORN PROJECT NO. 118109016

CONSTRUCTION PHASING
 SHEET NUMBER
C9-00

BID SET

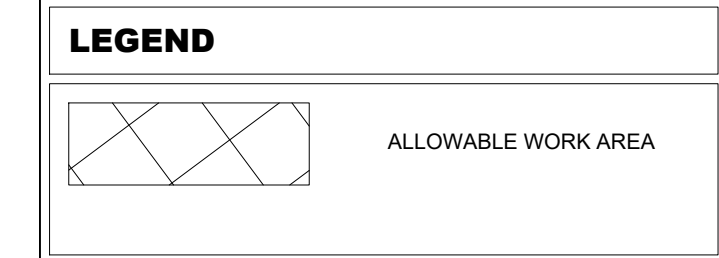
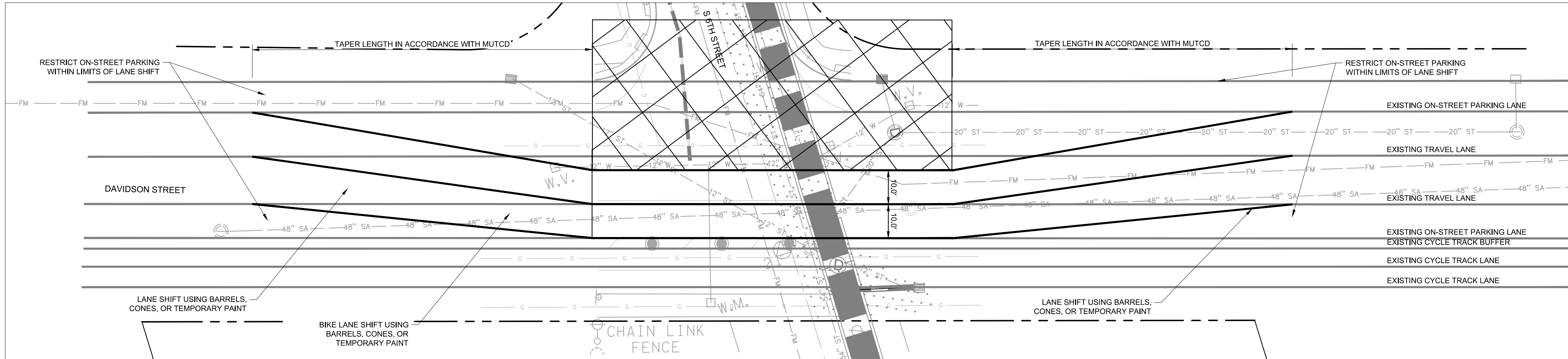


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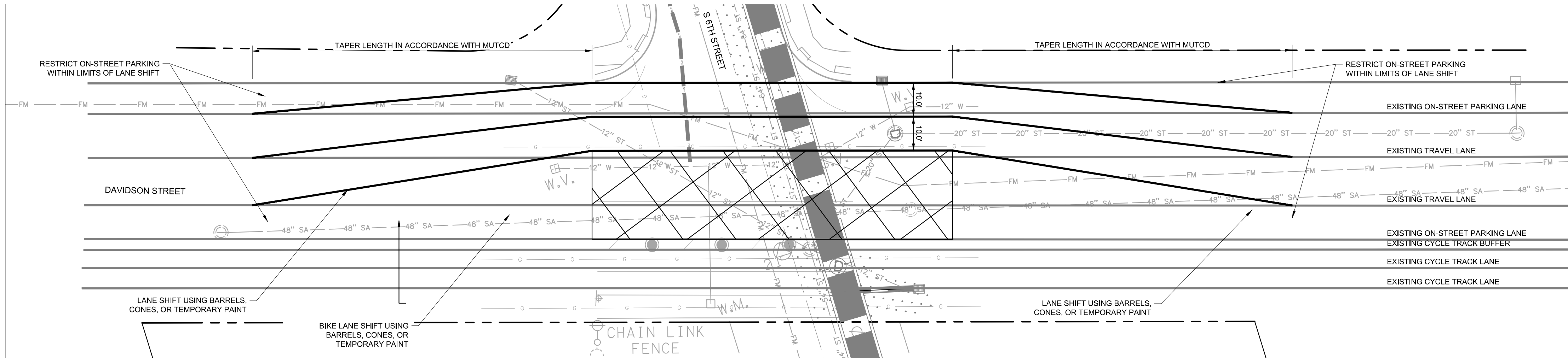
MAINTENANCE OF TRAFFIC GENERAL NOTES - 6TH AND DAVIDSON

1. THE CONTRACTOR SHALL DELINEATE LANE SHIFTS VIA CHANNELIZING DEVICES. LANE SHIFT TAPER LENGTH SHALL BE IN ACCORDANCE WITH THE MUTCD.
2. THE CONTRACTOR MAY RESTRICT ON-STREET PARKING AS NECESSARY TO ACCOMMODATE LANE SHIFTS.

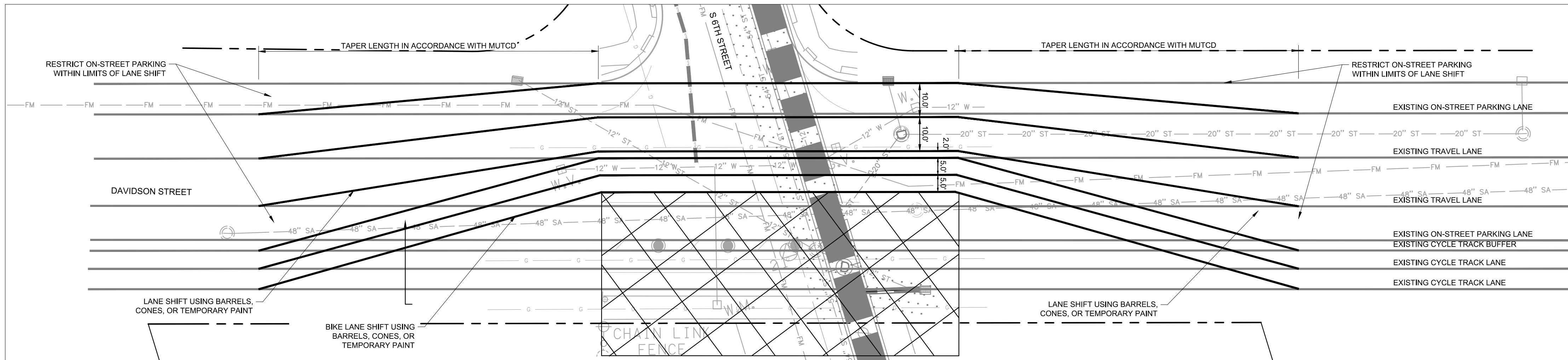
PHASE A



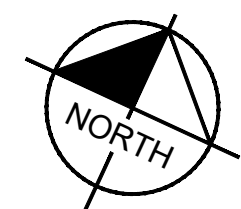
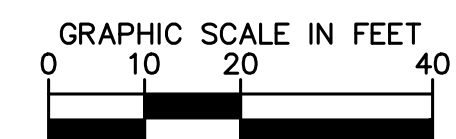
PHASE B



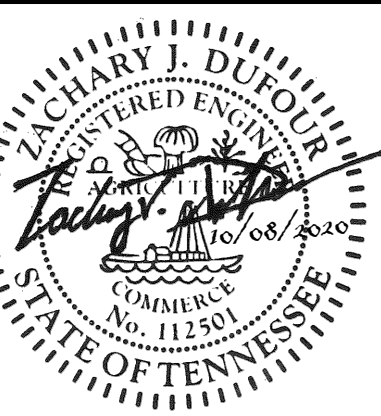
PHASE C



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**CAYCE UTILITY PHASE 1
MDHA
NASHVILLE, TN**



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DESIGNED BY: KKF
 DRAWN BY: LEB
 CHECKED BY: ZJD
 DATE: 08/05/2020
 KIMLEY-HORN PROJECT NO. 118109016

DAVIDSON ST AND S 6TH ST MAINTENANCE OF TRAFFIC

SHEET NUMBER
C9-01

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