

STATE OF TENNESSEE

SHELBY COUNTY

TDOT P.I.N.:115241.16

FEDERAL PROJECT NO.:CM–NH–14(54)

STATE PROJECT NO.:79LPLM–F1–294

STATE CONSTRUCTION NO.:79LPLM–F3–295

LOCALLY MANAGED PROJECT

CONGESTION MANAGEMENT

PROGRAM

ADA IMPROVEMENTS

SIGNAL SYSTEM PROJECT SET #10

CONGESTION MANAGEMENT PROGRAM (SIGNAL SYSTEM SET #10) - ADA IMPROVEMENTS			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1202-03	REMOVAL OF RIGID PAVEMENT, SIDEWALK, ETC.	S.Y.	225
2701-01.01	CONCRETE SIDEWALK (4 ")	S.F.	1850
701-02	CONCRETE DRIVEWAY	S.F.	250
3701-02.01	CONCRETE CURB RAMP (RETROFIT)	S.F.	2100
701-02.03	CONCRETE CURB RAMP	S.F.	175
716-02.03	PLASTIC PAVEMENT MARKING (CROSS-WALK)	L.F.	3800
716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	400
716-08.01	REMOVAL OF PAVEMENT MARKING (LINE)	L.F.	1600
716-08.05	REMOVAL OF PAVEMENT MARKING (STOP LINE)	L.F.	300
4730-01.02	REMOVAL OF SIGNAL EQUIPMENT	EACH	7
730-03.21	INSTALL PULL BOX (TYPE B)	EACH	19
730-08.01	SIGNAL CABLE - 3 CONDUCTOR	L.F.	275
730-08.02	SIGNAL CABLE - 5 CONDUCTOR	L.F.	2500
730-08.03	SIGNAL CABLE - 7 CONDUCTOR	L.F.	650
730-12.13	CONDUIT 2" DIAMETER (JACK AND BORE)	L.F.	1850
5730-23.30	PEDESTAL POLE (ALUMINUM, 20' LENGTH)	EACH	3
730-26.05	COUNTDOWN PEDESTRIAN SIGNAL	EACH	48
6730-26.06	PEDESTRIAN PUSHBUTTON POST	EACH	15
730-26.09	PEDESTRIAN PUSHBUTTON WITH 15IN SIGN	EACH	56
771-04.50	SODDING	S.F.	325
793-16.21	ADJUST MANHOLE LID	EACH	2

FOOTNOTES

- 1ITEM TO BE USED FOR SIDEWALK REMOVAL OUTSIDE OF FOOTPRINT FOR NEW RAMPS.
- 2ITEM TO BE USED TO INSTALL NEW SIDEWALK OUTSIDE OF FOOTPRINT OF NEW RAMPS.
- 3ITEM TO INCLUDE THE INSTALLATION OF NEW CURB RAMPS WHERE EXISTING RAMPS ARE LOCATED, REMOVAL OF EXISTING SIDEWALK MATERIAL WITHIN FOOTPRINT OF NEW RAMPS, AND/OR THE INSTALLATION OF TRUNCATED DOMES ON EXISTING RAMPS WHERE SHOWN ON PLANS.
- 4TO INCLUDE THE REMOVAL OF PUSH BUTTONS, PEDESTRIAN SIGNS, AND/OR DISPLAYS AS SPECIFIED ON PLANS, PER INTERSECTION.
- 5ITEM INCLUDES CONCRETE FOUNDATION OR SCREW DOWN ANCHOR FOUNDATION AS APPROVED BY THE ENGINEER.
- 6ITEM TO INCLUDE ALL MATERIALS NECESSARY TO INSTALL A FULLY FUNCTIONAL AUDIBLE PEDESTRIAN SYSTEM. APS TO HAVE A STAND ALONE POWER SUPPLY, BUILT IN CONFLICT MONITORING SYSTEMS, AND ETHERNET CAPABILITIES. PUSH BUTTONS TO HAVE THE ABILITY TO PROGRAM CUSTOM AUDIO MESSAGES FOR EACH INDIVIDUAL BUTTON, CONFIRMATION OF BUTTON PUSH VIA LED, SOUND, AND TACTILE BOUNCE, VIBRATE DURING ASSOCIATED WALK PHASE, AND VOLUMES THAT AUTOMATICALLY ADJUST TO AMBIENT NOISE.

PROJECT INTERSECTIONS

THIRD AT BELZ

THIRD AT BROOKS

THIRD AT G.E. PATTERSON

THIRD AT MALLORY

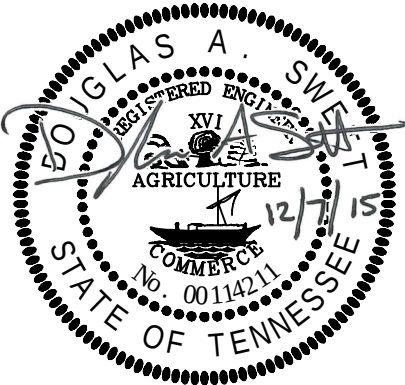
THIRD AT MCLEMORE

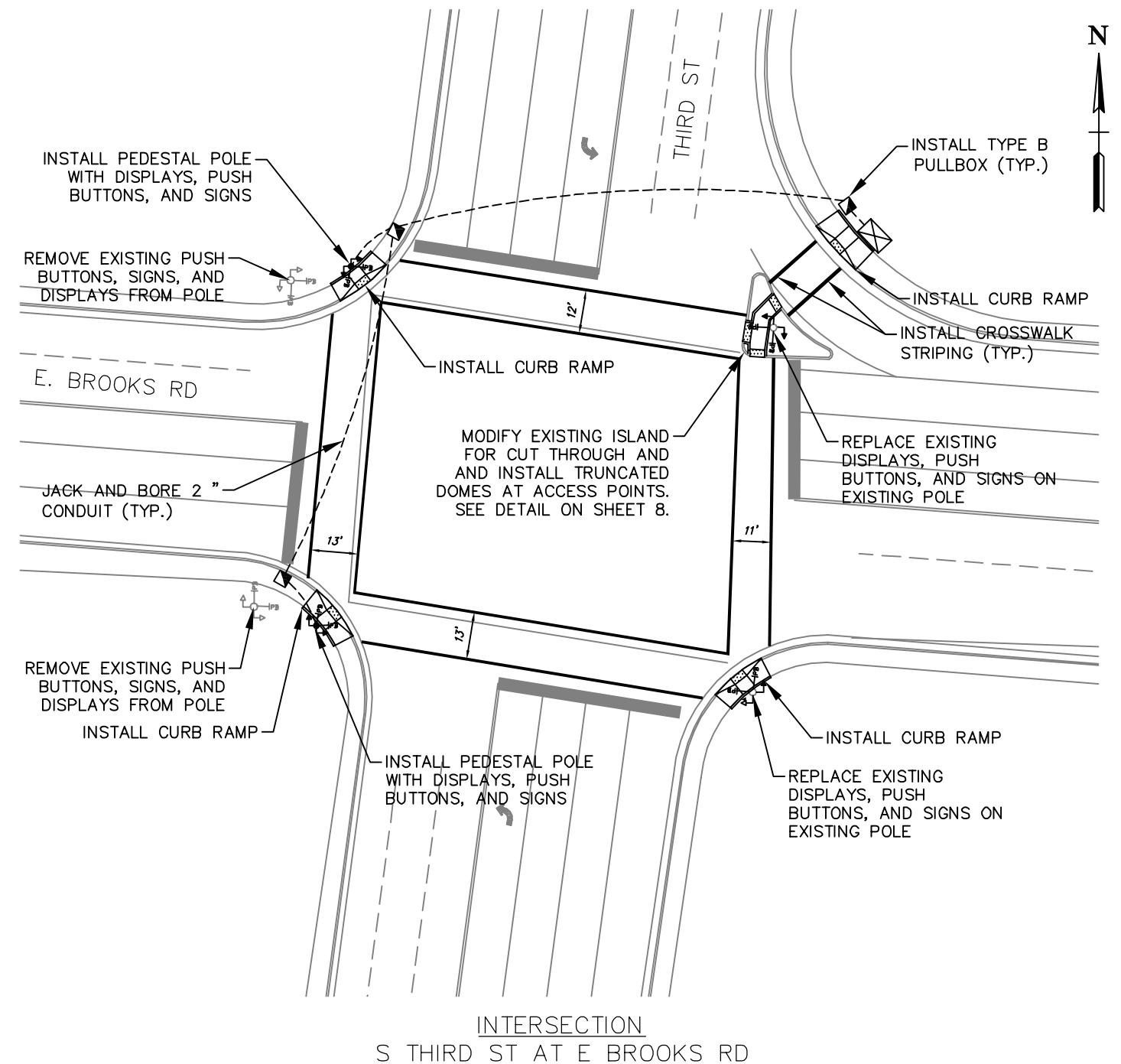
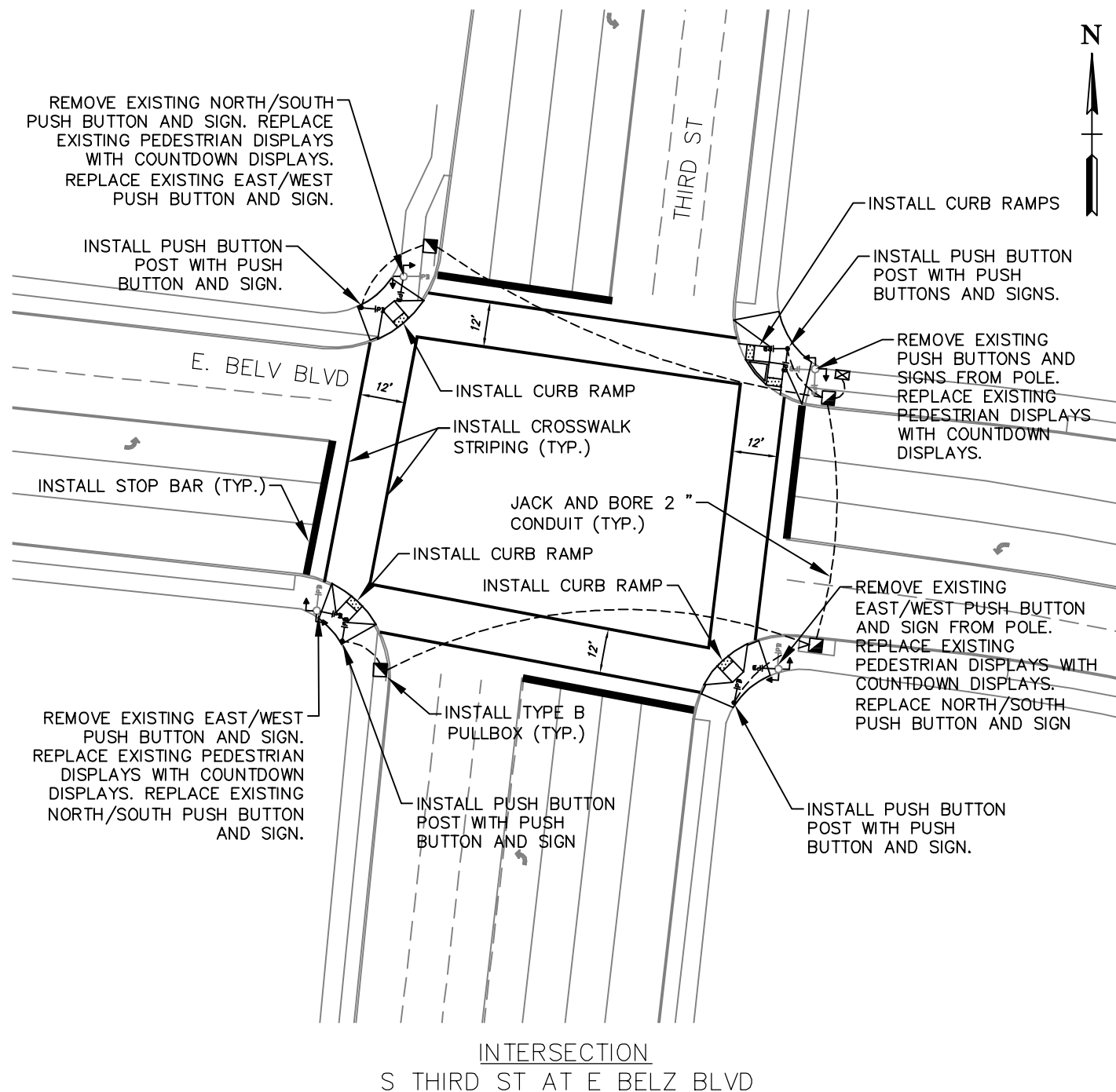
THIRD AT DR. M.L.K. JR

THIRD AT PEEBLES

LEGEND

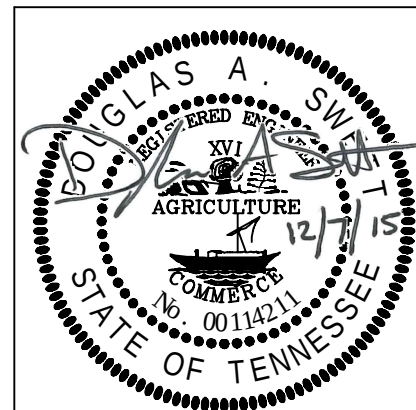
	EXISTING	PROPOSED
PEDESTAL POLE	◦	•
SIGNAL POLE	◦	•
PUSH BUTTON POST	◦	•
STANDARD PULL BOX	☒	▣
BASE MOUNTED CABINET	☒	▣
POLE MOUNTED CABINET	☒	▣
PEDESTRIAN SIGNAL HEAD	↗	↗
PEDESTRIAN PUSH BUTTON	—IPB	—IPB
RIGHT OF WAY	---	---





NOTES

1. FOR PEDESTRIAN SIGNAL AND SIGN DETAILS, SEE TDOT STANDARD DRAWING T-SG-7.
2. FOR PUSHBUTTON POST AND PEDESTAL POLE DETAILS, SEE TDOT STANDARD DRAWING T-SG-9A.
3. FOR RAMP DETAILS, SEE TDOT STANDARD DRAWINGS RP-H-3 - RP-H-9.

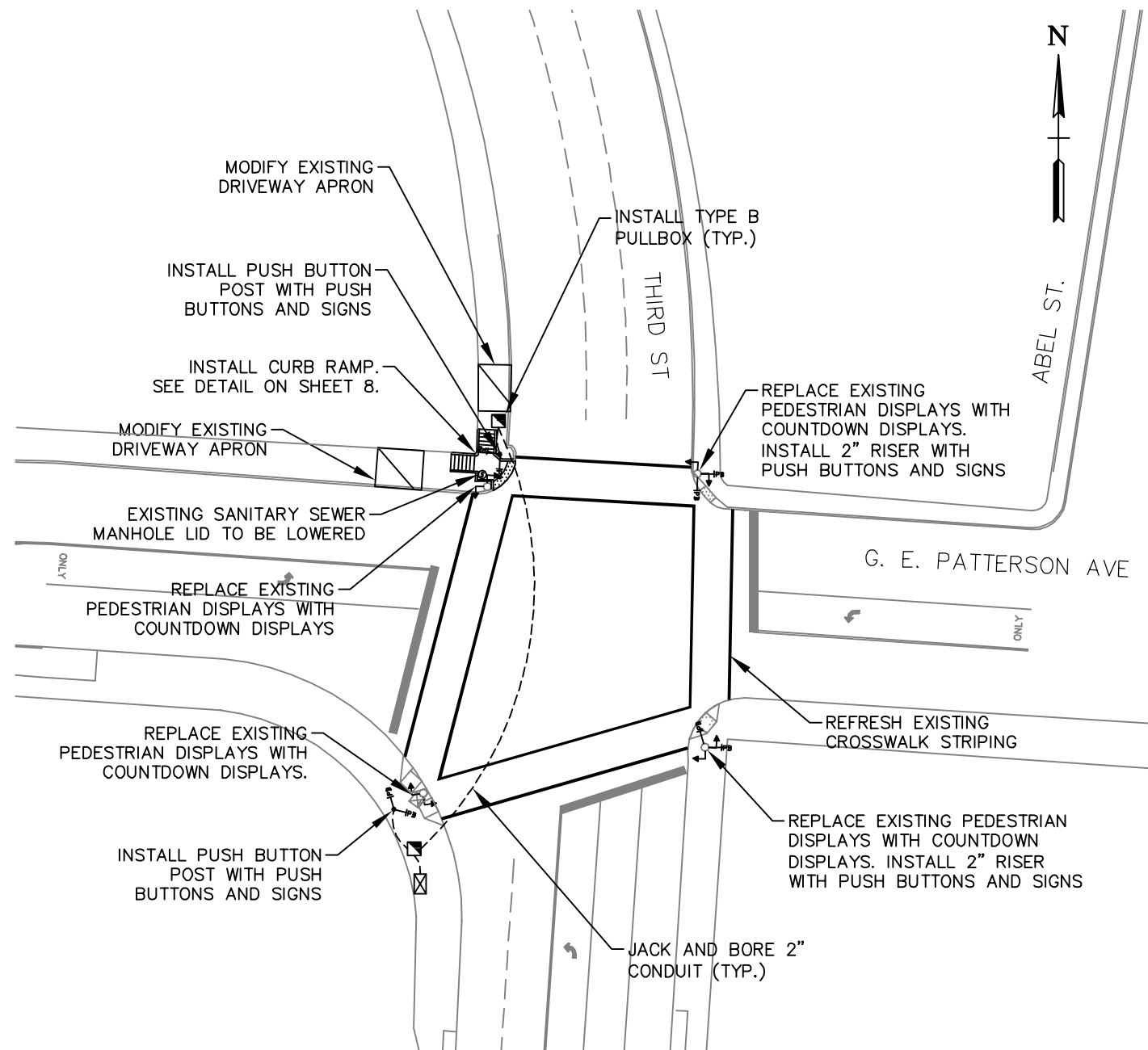


CONGESTION MANAGEMENT PROGRAM
SIGNAL SYSTEM PROJECT SET #10
PIN 115241.16

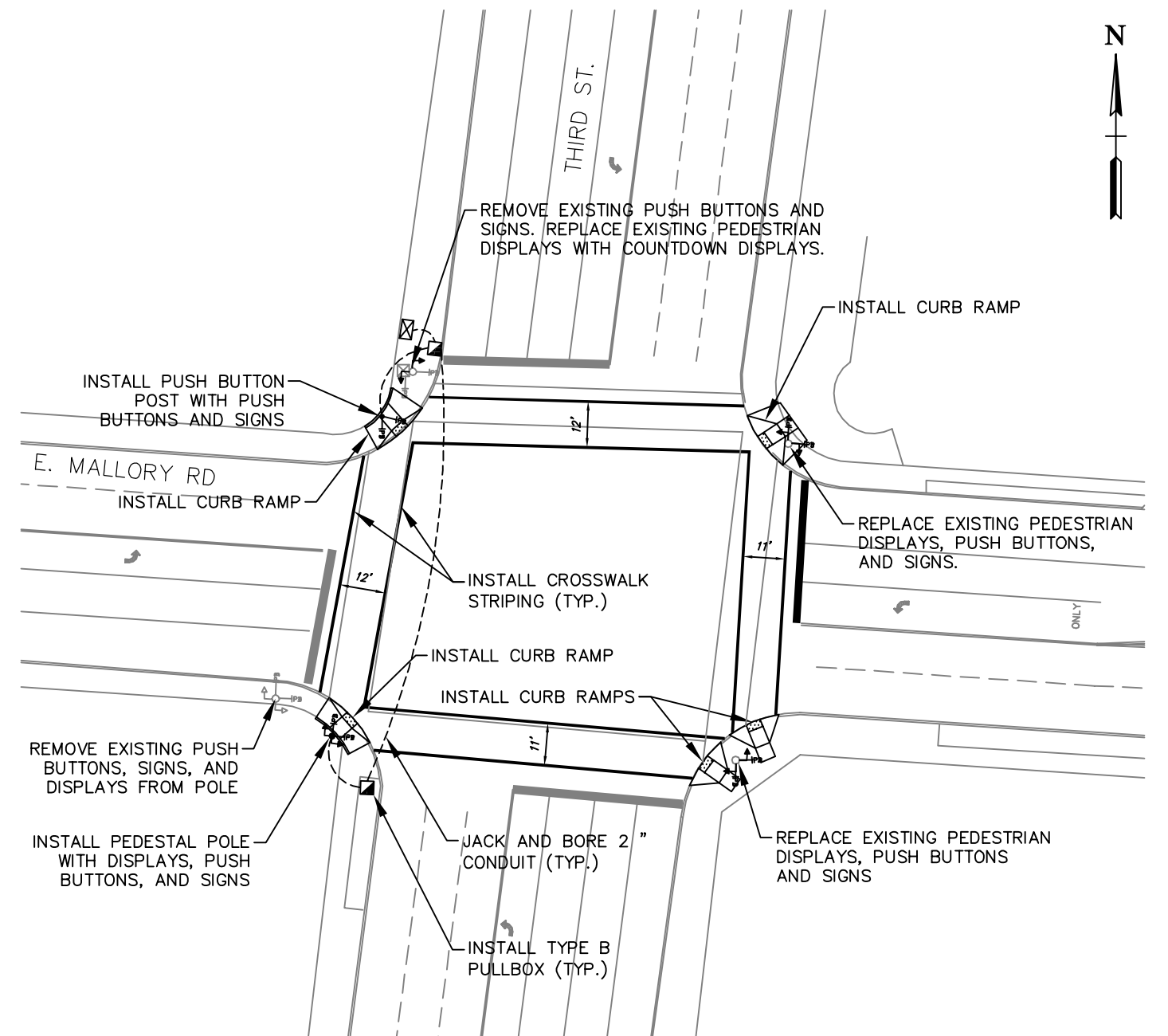
ADA UPGRADES

DRAFTED: KHA DATE: 11/15 SCALE: 1"=40'
DESIGNED: DAS DATE: 11/15 CHECKED: DAS DATE: 11/15

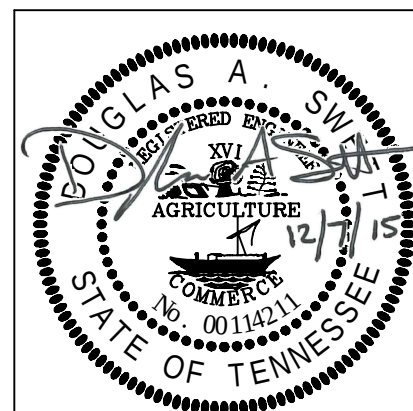
Kimley»Horn



INTERSECTION
S THIRD ST AT GE PATTERSON AVE



INTERSECTION
S THIRD ST AT MALLORY ST

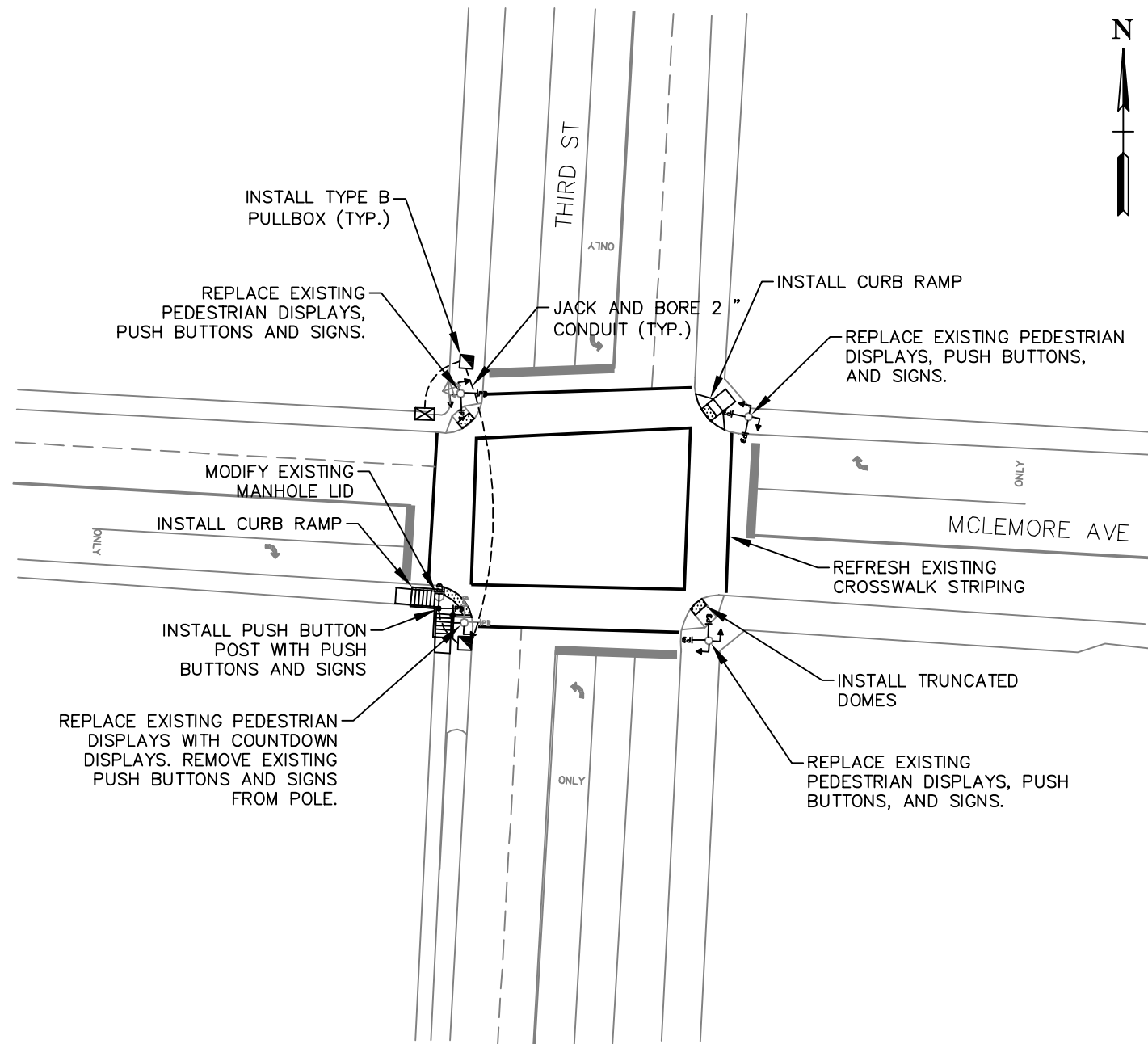


CONGESTION MANAGEMENT PROGRAM
SIGNAL SYSTEM PROJECT SET #10
PIN 115241.16

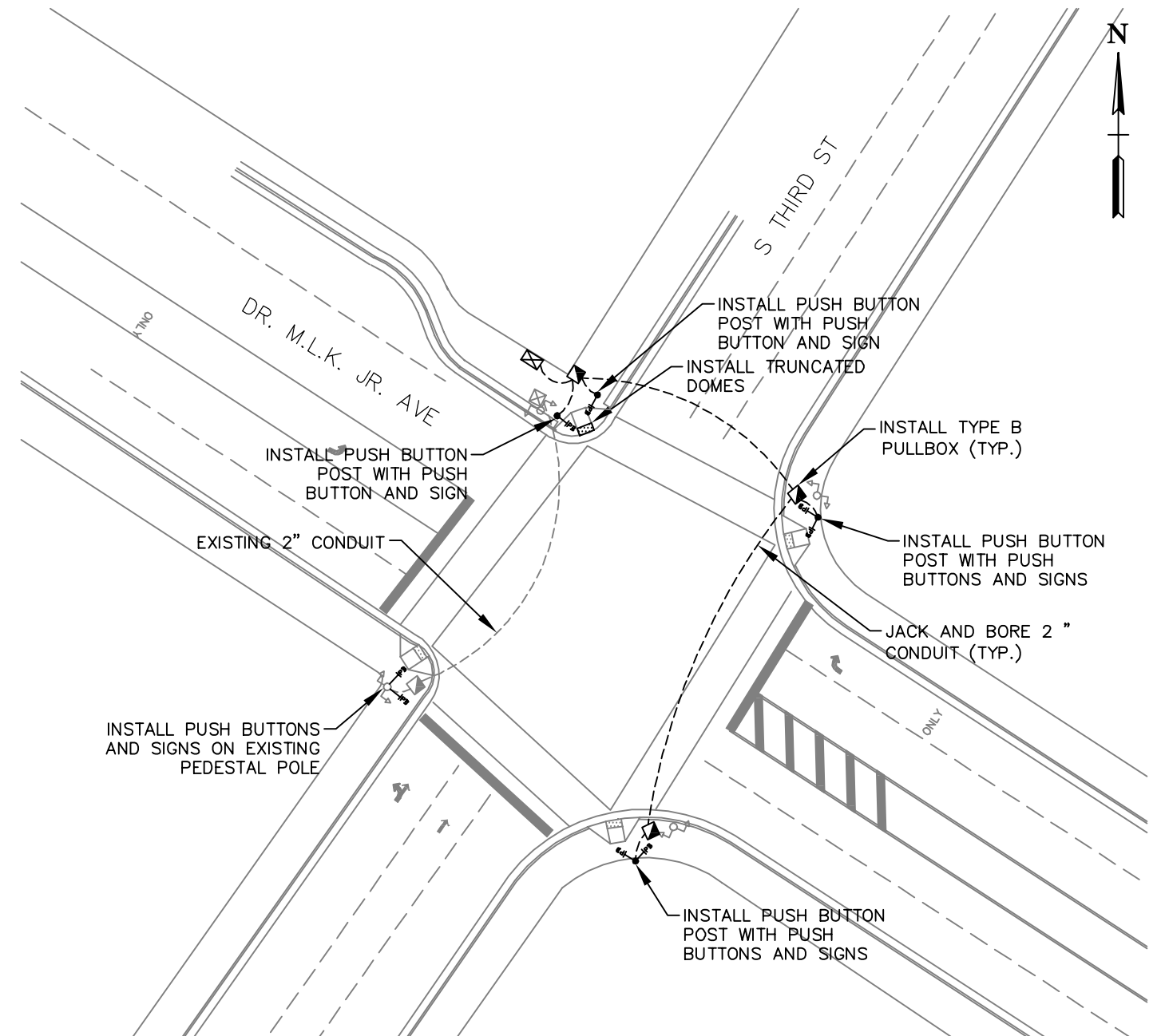
ADA UPGRADES

DRAFTED: KHA DATE: 11/15 SCALE: 1"=40'
DESIGNED: DAS DATE: 11/15 CHECKED: DAS DATE: 11/15

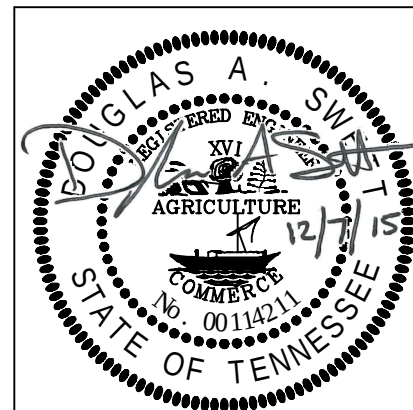
Kimley»Horn



INTERSECTION
S THIRD ST AT MCLEMORE AVE



INTERSECTION
S THIRD ST AT DR. M.L.K. JR. AVE

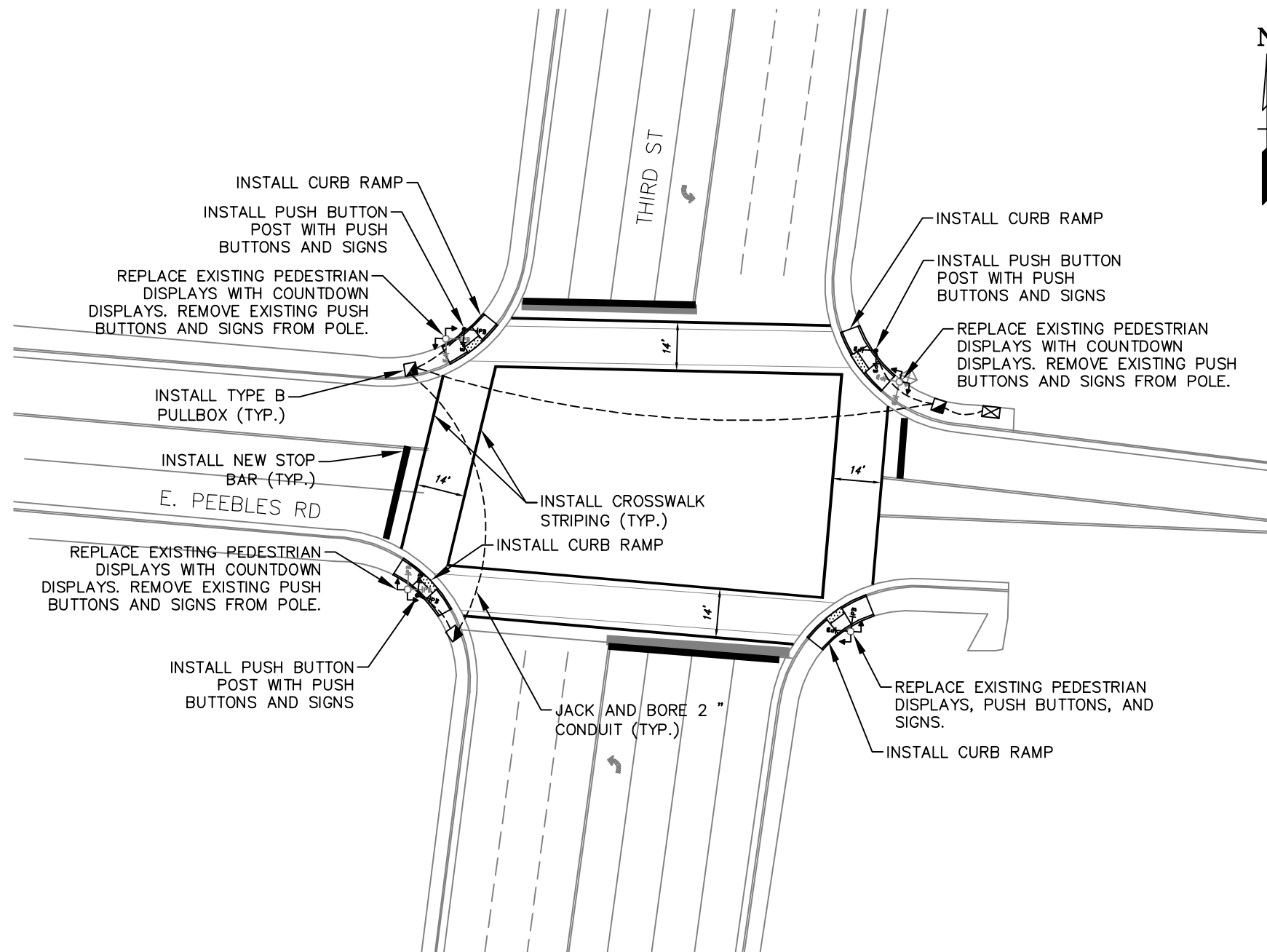


CONGESTION MANAGEMENT PROGRAM
SIGNAL SYSTEM PROJECT SET #10
PIN 115241.16

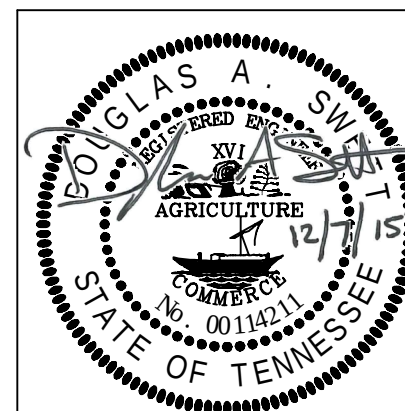
ADA UPGRADES

DRAFTED: KHA _____ DATE: 11/15 _____ SCALE: 1"=40'
DESIGNED: DAS _____ DATE: 11/15 _____ CHECKED: DAS _____ DATE: 11/15 _____

Kimley»Horn



INTERSECTION
S THIRD ST AT PEEBLES RD



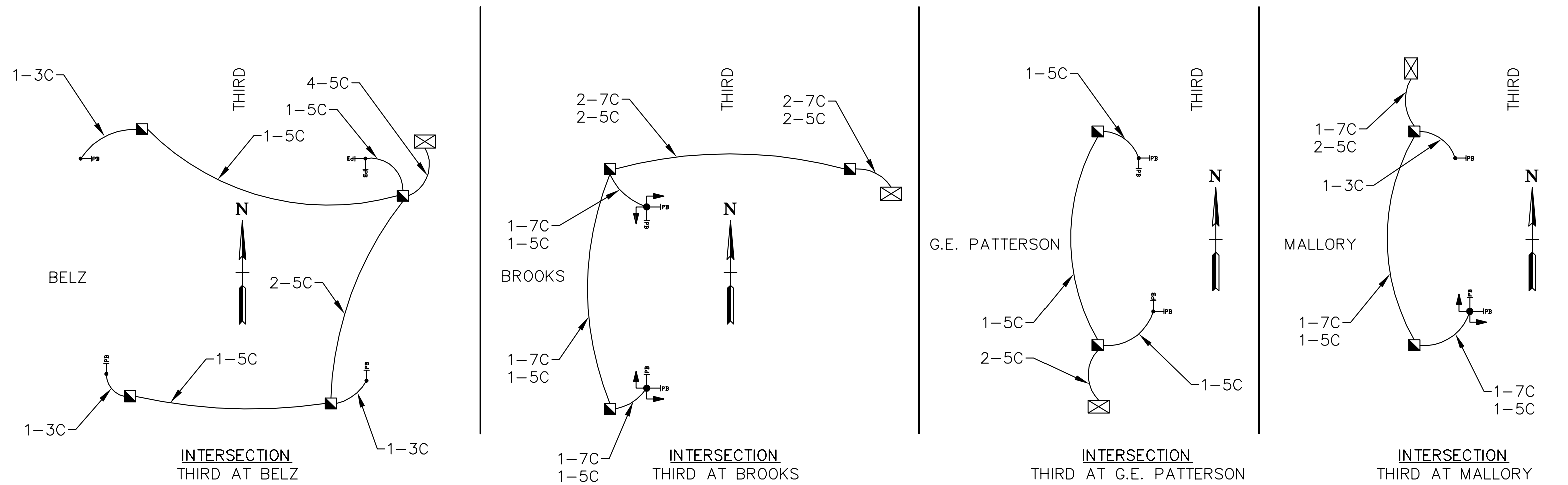
CONGESTION MANAGEMENT PROGRAM
SIGNAL SYSTEM PROJECT SET #10
PIN 115241.16

ADA UPGRADES

DRAFTED: KHA DATE: 11/15 SCALE: 1"=40'
DESIGNED: DAS DATE: 11/15 CHECKED: DAS DATE: 11/15

Kimley»Horn

WIRING DIAGRAMS

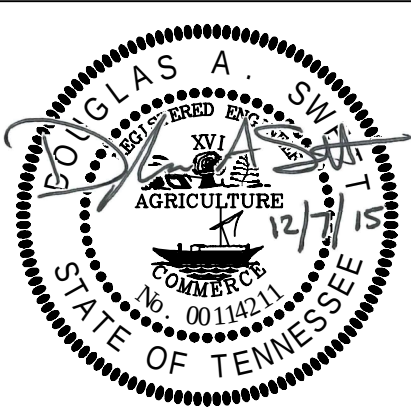


CONDUCTOR ASSIGNMENT CHART

PEDESTRIAN PUSHBUTTONS		PEDESTRIAN SIGNALS	
5C CABLE		7C CABLE	
PHASE	CONDUCTOR COLOR	PHASE	CONDUCTOR COLOR
EAST/WEST	BLACK	EAST OR WEST	
EAST/WEST	RED	DON'T WALK	RED
NORTH/SOUTH	WHITE	WALK	BLACK
NORTH/SOUTH	ORANGE	NORTH OR SOUTH	
SPARE	GREEN	DON'T WALK	ORANGE
		WALK	GREEN
		NEUTRAL	WHITE
		SPARE	BLUE
		SPARE	WHITE/BLACK

WIRING DIAGRAM LEGEND

7C — 7 CONDUCTOR
5C — 5 CONDUCTOR
3C — 3 CONDUCTOR



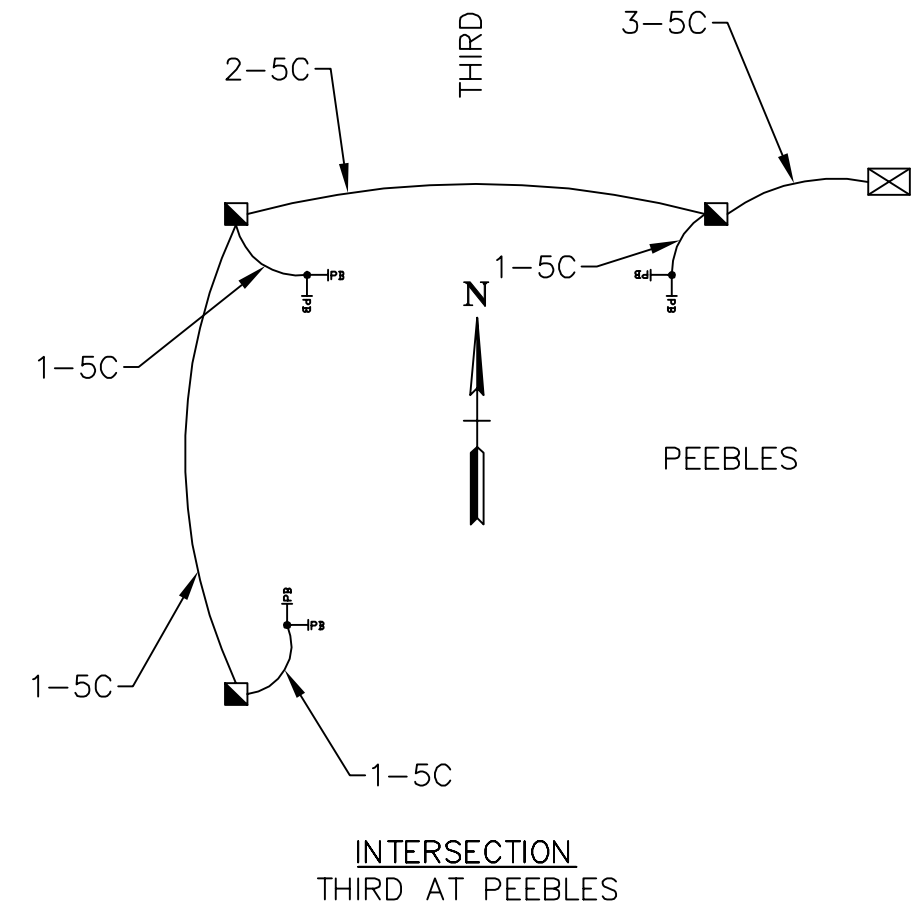
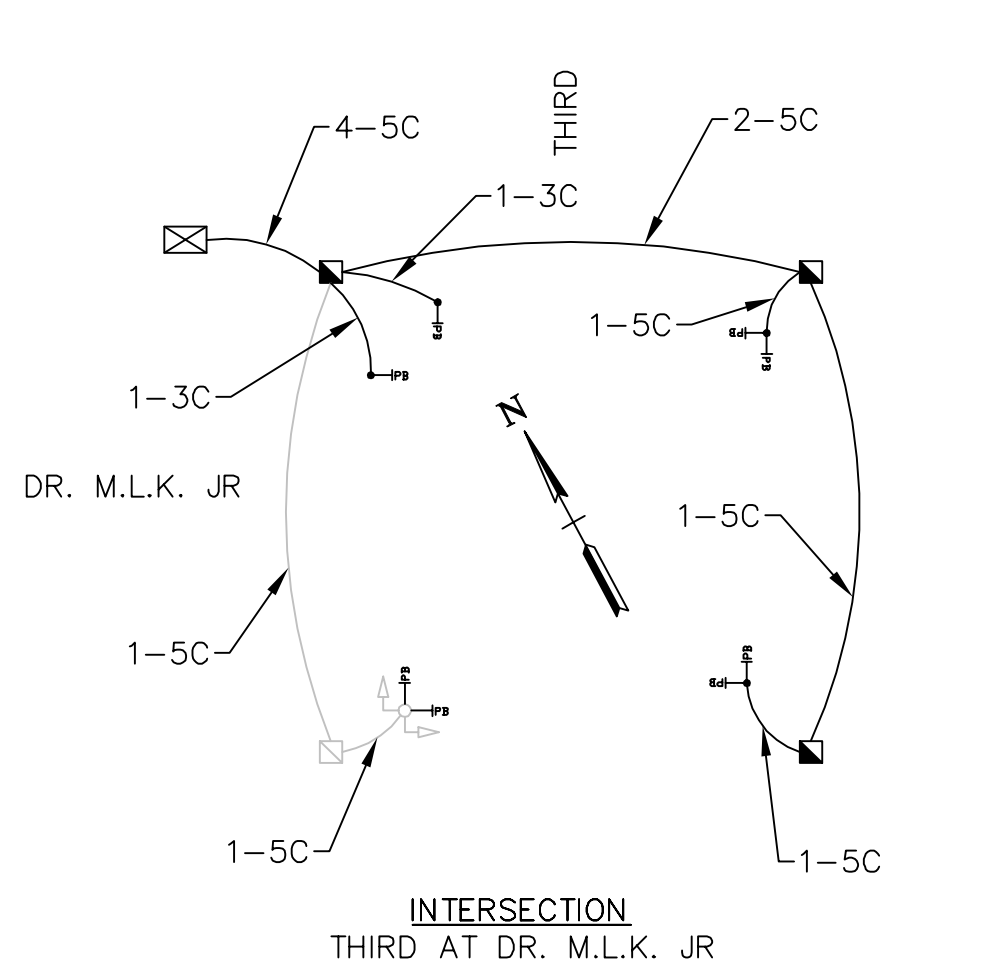
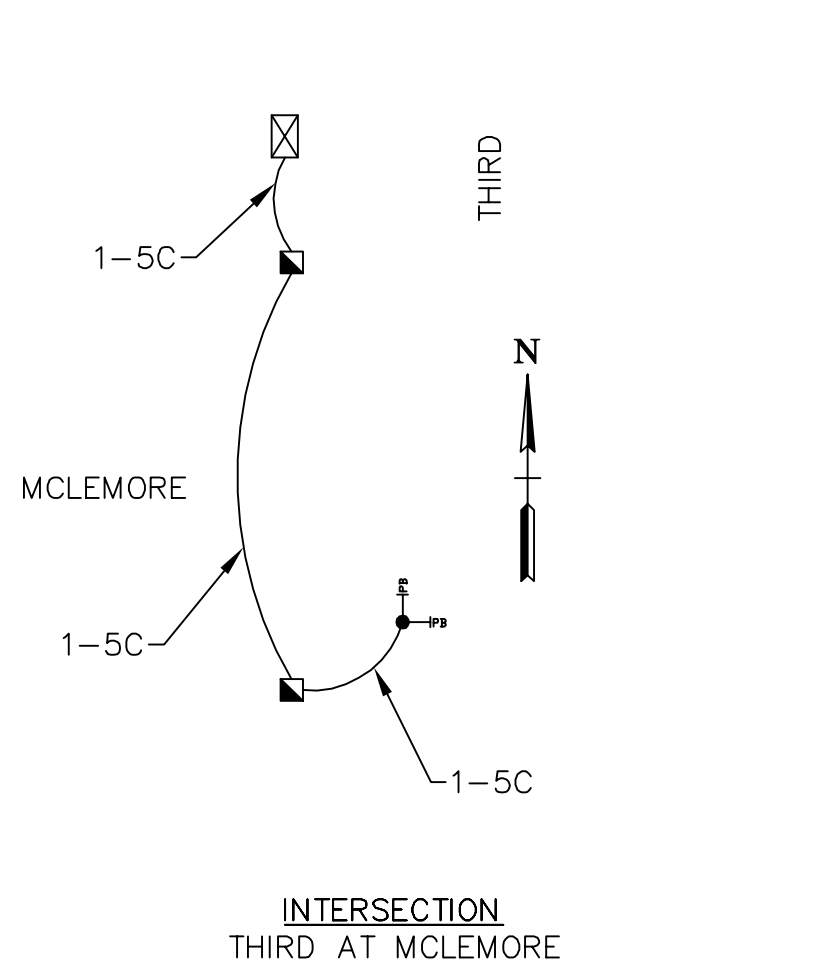
CONGESTION MANAGEMENT PROGRAM
SIGNAL SYSTEM PROJECT SET #10
PIN 115241.16

WIRING DIAGRAM

DRAFTED: KHA DATE: 11/15 SCALE: N.T.S.
DESIGNED: DAS DATE: 11/15 CHECKED: DAS DATE: 11/15

Kimley»Horn

WIRING DIAGRAMS



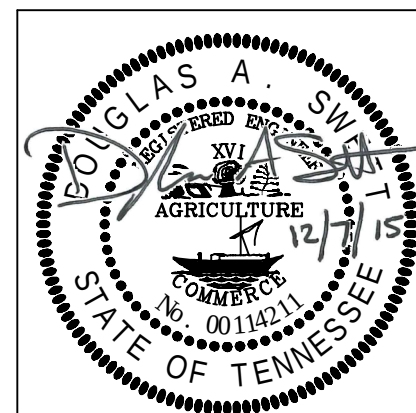
CONDUCTOR ASSIGNMENT CHART

PEDESTRIAN PUSHBUTTONS	
5C CABLE	
PHASE	CONDUCTOR COLOR
EAST/WEST	BLACK
EAST/WEST	RED
NORTH/SOUTH	WHITE
NORTH/SOUTH	ORANGE
SPARE	GREEN

PEDESTRIAN SIGNALS	
7C CABLE	
PHASE	CONDUCTOR COLOR
EAST OR WEST	
DON'T WALK	RED
WALK	BLACK
NORTH OR SOUTH	
DON'T WALK	ORANGE
WALK	GREEN
NEUTRAL	WHITE
SPARE	BLUE
SPARE	WHITE/BLACK

WIRING DIAGRAM LEGEND

7C	—	7	CONDUCTOR
5C	—	5	CONDUCTOR
3C	—	3	CONDUCTOR

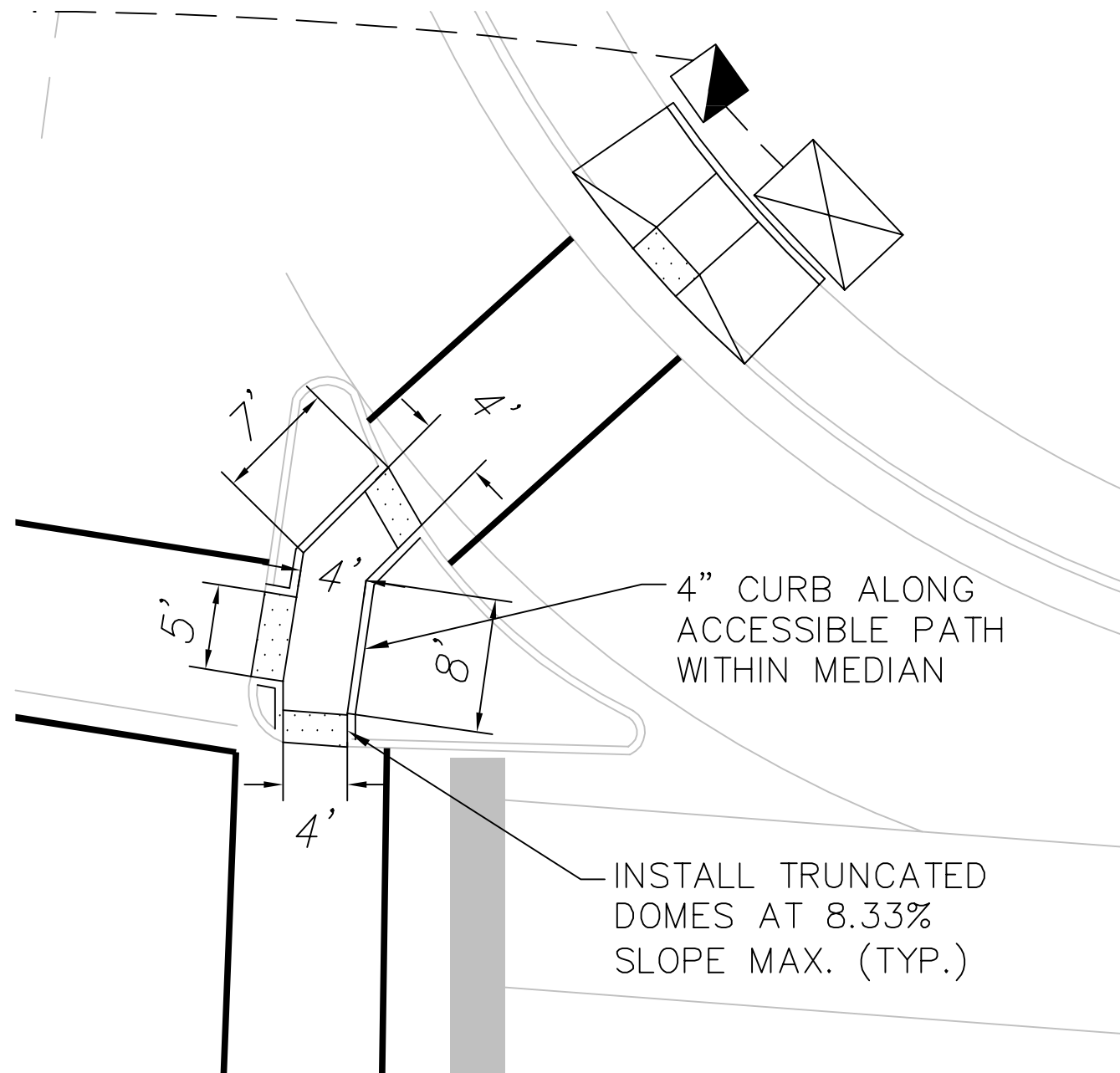


CONGESTION MANAGEMENT PROGRAM
SIGNAL SYSTEM PROJECT SET #10
PIN 115241.16

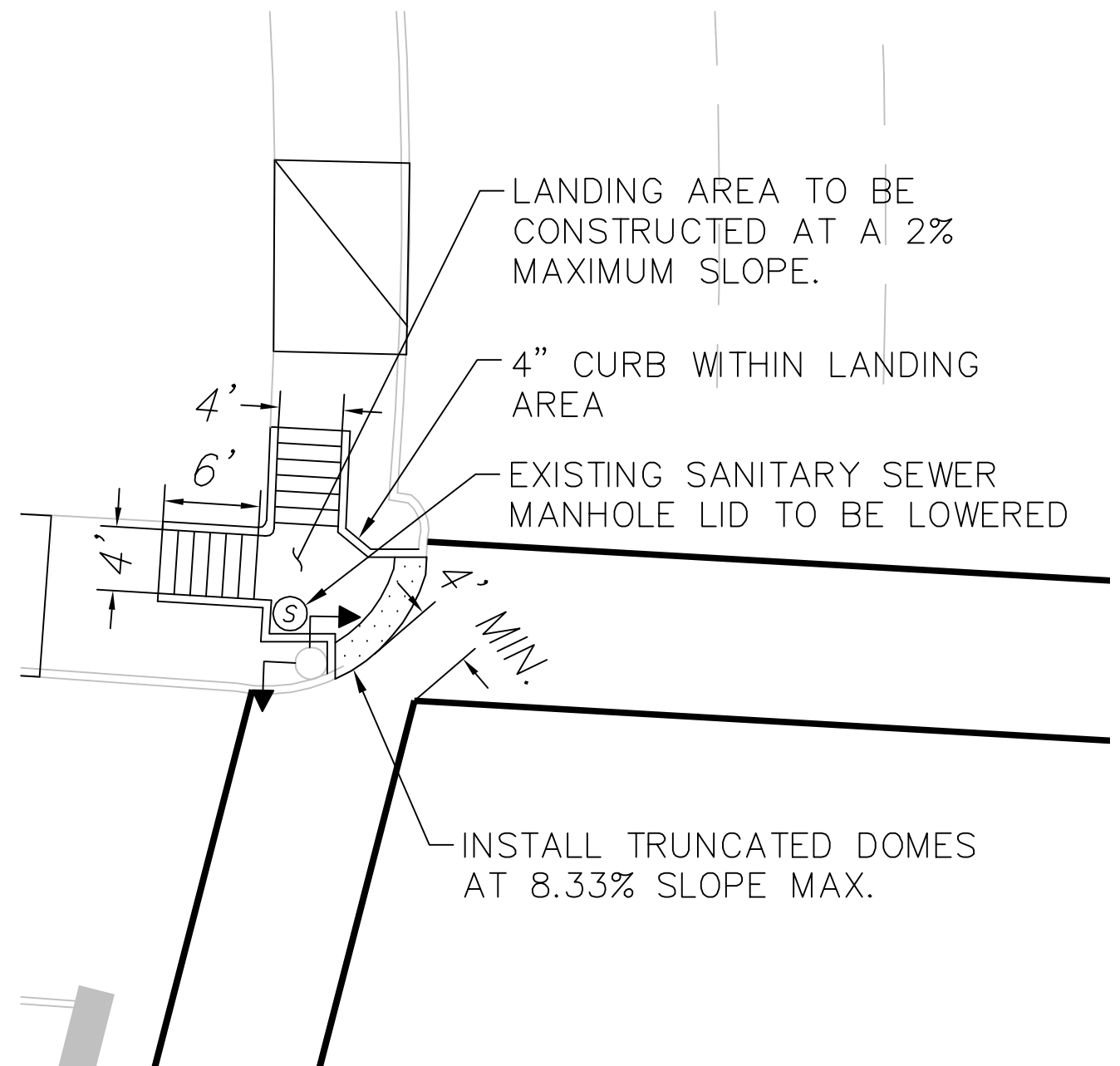
WIRING DIAGRAM

DRAFTED: KHA DATE: 11/15 SCALE: N.T.S.
DESIGNED: DAS DATE: 11/15 CHECKED: DAS DATE: 11/15

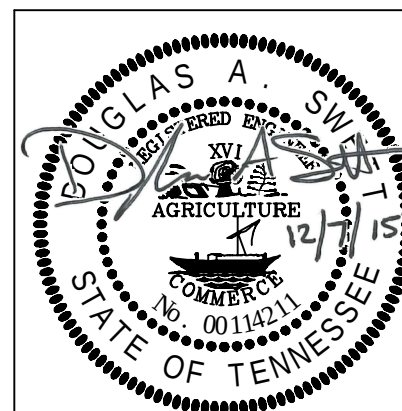
Kimley»»Horn



INTERSECTION DETAIL
NORTHEAST CORNER OF THIRD AT BROOKS
SCALE 1"=10'



INTERSECTION DETAIL
NORTHWEST CORNER OF THIRD AT G.E. PATTERSON
SCALE 1"=10'



CONGESTION MANAGEMENT PROGRAM
SIGNAL SYSTEM PROJECT SET #10
PIN 115241.16

CONSTRUCTION DETAILS

DRAFTED: KHA DATE: 11/15 SCALE: 1"=10'
DESIGNED: DAS DATE: 11/15 CHECKED: DAS DATE: 11/15

Kimley»Horn