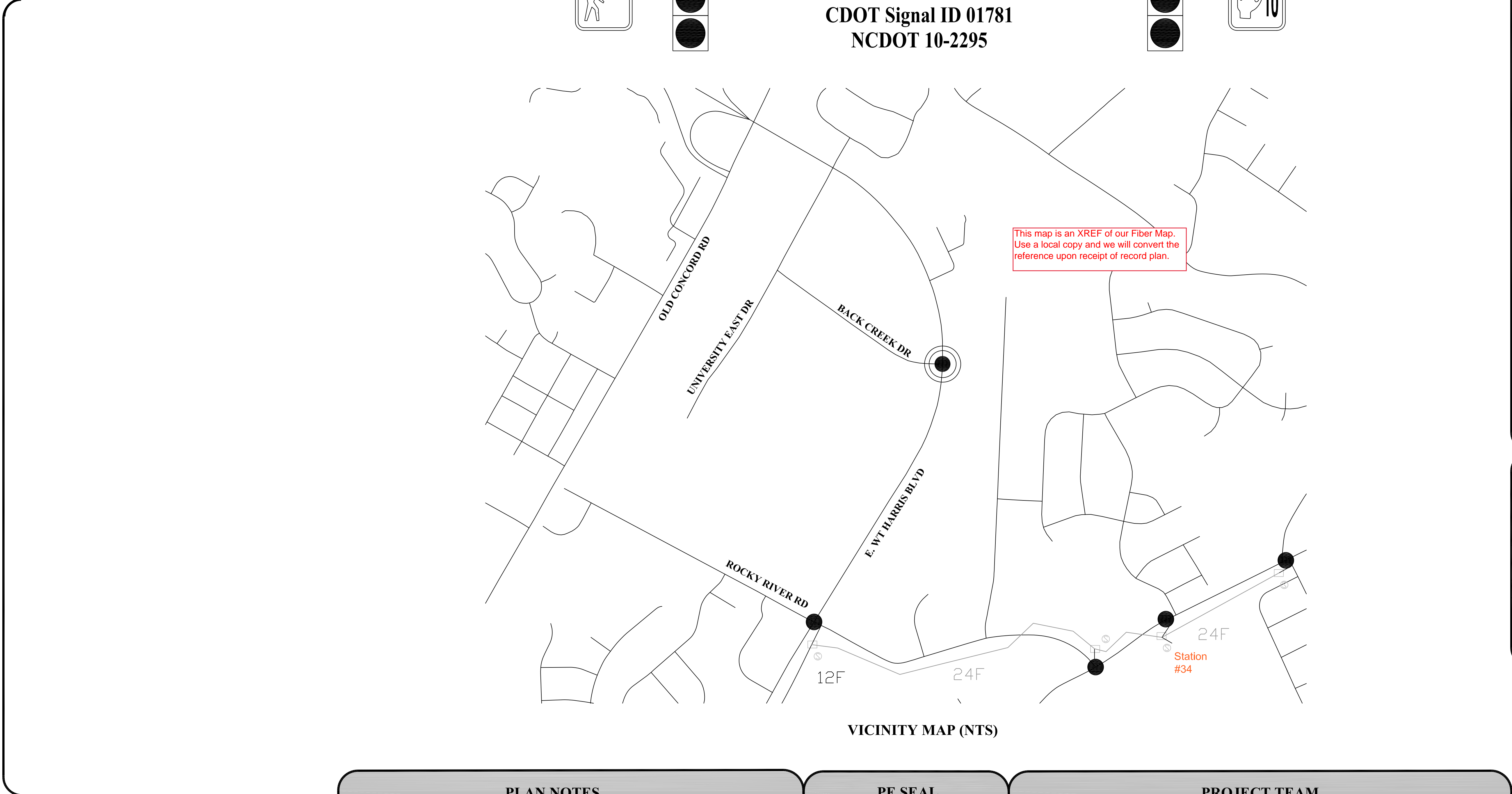














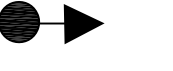







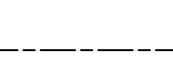

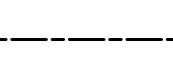







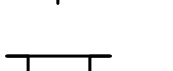
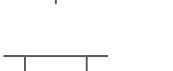














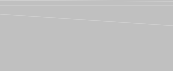
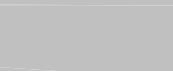
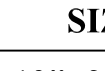
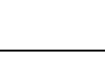
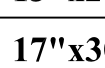



INDEX OF SHEETS	
Cover Sheet	
Signal Plan	SIG1
Signal Details	SIG2
Splice Detail	SIG3
Signal Wiring Diagram	SIG4
Low Voltage Wiring Diagram	SIG5
Update with additional sheets as necessary	
TOTAL SHEETS	5



LEGEND		
PROPOSED	DESCRIPTION	EXISTING
	CONTROL BOX	
	METER PEDESTAL	
	PULL BOX	
	STEEL POLE	
	MAST ARM	
	PED PEDESTAL	
	UTILITY POLE	
	ANCHOR	
	SIGNAL HEAD	
	VIDEO CAMERA	
	OPTICOM	
	OBSERVATION CAM	
	DETECTOR	
	CONDUIT	
	INTERCONNECT	
	EDGE OF PVT.	
	CURB & GUTTER	
	TUBULAR MARKER	
	GROUND SIGN	
	OVERHEAD SIGN	
	DOUBLE YELLOW	
	STOP BAR	
	WHITE SKIP	
	WHITE MINI	
	PAVEMENT ARROW	
	PROPERTY LINE	
	ROW	

PULLBOX ID		
	SIZE	PULLBOX TYPE
①	13"x24"x12"	LOOP
②	17"x30"x24"	FIBER OPTIC
③	24"x36"x24"	CONTROLLER / FIBER
④	30"x48"x36"	CONTROLLER
⑤	24"x24"x12"	CONTROLLER
⑥	36"x36"x12"	CONTROLLER
NOTE: PULLBOX MATERIAL MUST MEET OR EXCEED THE 1998 CDOT TRAFFIC SIGNAL SPECIFICATIONS.		

PLANS PREPARED BY:

City of Charlotte
Department of Transportation
600 East 4th Street Charlotte, NC 28202
Phone: (704) 336-4119
Fax: (704) 336-4400

PLAN NOTES

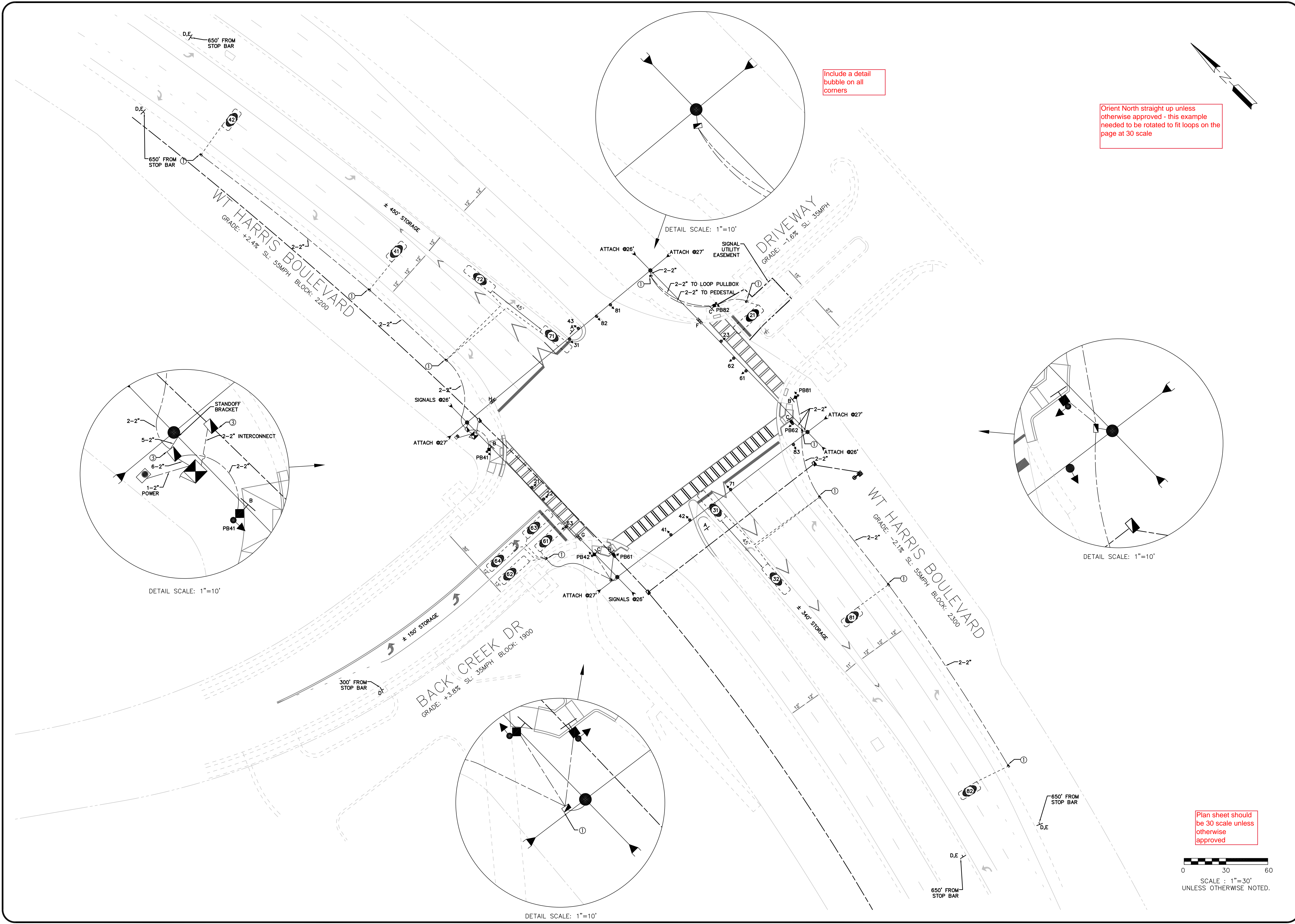
1. ALL PAVEMENT MARKING DIMENSIONS ARE APPROXIMATE.
2. SIGNAL SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST NCDOT STANDARD SPECIFICATIONS AND CDOT TRAFFIC SIGNAL SPECIAL PROVISIONS.
3. PED SIGNALS WITH PUSHBUTTONS WILL BE LABELED "PB" (FOR EXAMPLE PB21, PB22)
4. COUNTDOWN PEDESTRIAN SIGNALS SHALL COUNT DOWN FLASHING DON'T WALK ONLY.

PE SEAL

NOT APPROVED
FOR CONSTRUCTION

PROJECT TEAM	
DESIGNER:	
PROJECT MANAGER:	
TIMING ENGINEER:	

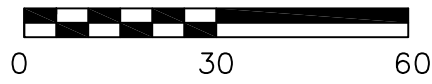




Include a detail bubble on all corners

Orient North straight up unless otherwise approved - this example needed to be rotated to fit loops on the page at 30 scale

Plan sheet should be 30 scale unless otherwise approved



SCALE : 1"=30'
UNLESS OTHERWISE NOTED.

Plans Prepared By:
CITY OF CHARLOTTE
DEPARTMENT OF TRANSPORTATION
600 E. 4TH ST. CHARLOTTE, NC 28202
704.336-4119 FAX 704.336-4400

REVISION DESCRIPTION	
NO.	BY
DATE	

NOT APPROVED
FOR CONSTRUCTION

01781 SIGNAL NO.	MSB PREPARED BY	05-2019 DATE
10-2295 NC DOT ID NO.		

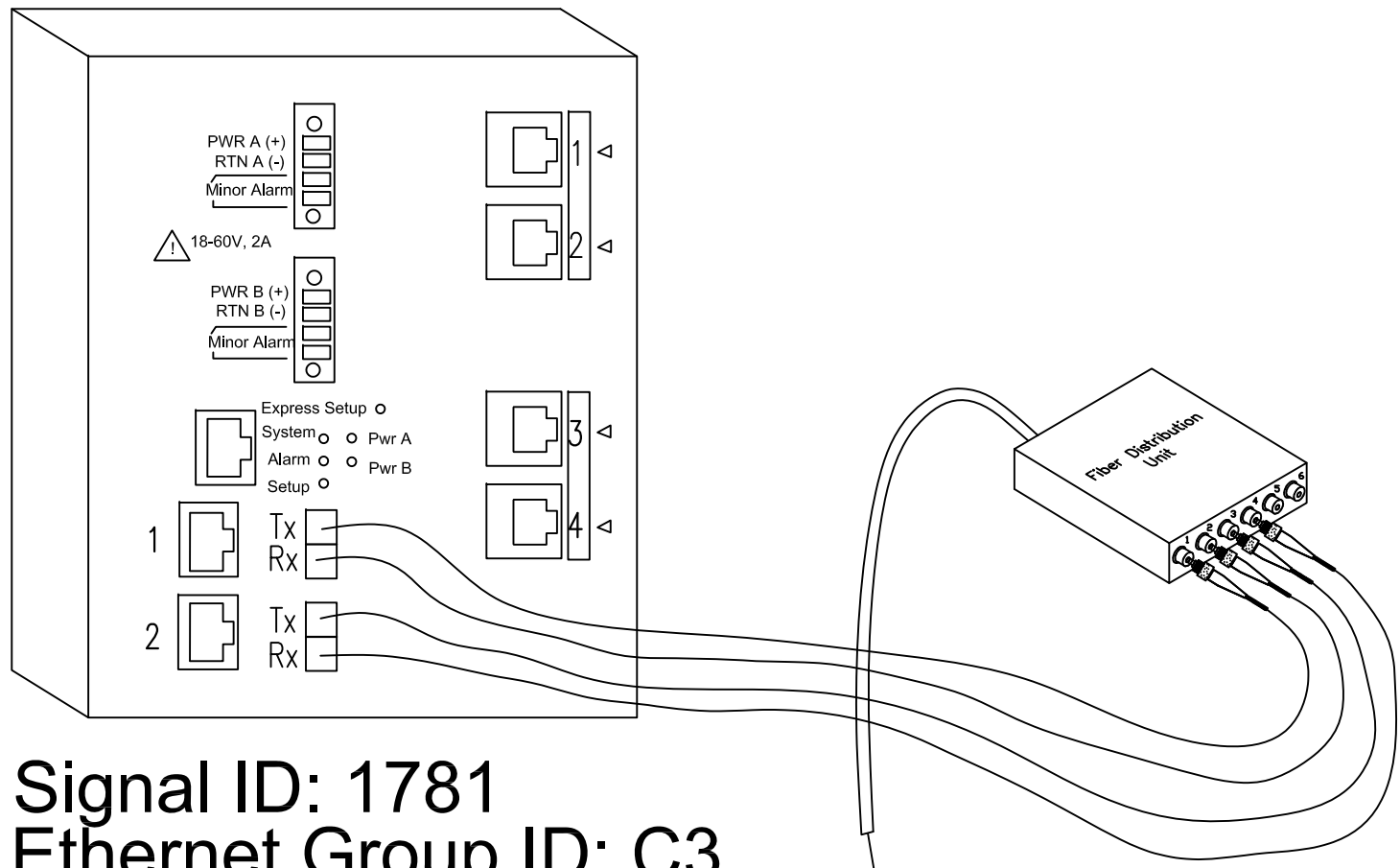
WT HARRIS BLVD @
BACK CREEK DR

SIGNAL PLAN

SHEET
SIG1
OF
SIG5

Cisco Ethernet Switch

Detail inside
traffic controller



- (1) Blue
- (2) Orange
- (3) Green
- (4) Brown
- (5) Slate
- (6) White

6 FIBER
GATOR PATCH
STUB

BLUE BUFFER
TUBE

- (1) BLUE
- (2) ORANGE
- (3) GREEN
- (4) BROWN
- (5) SLATE
- (6) WHITE
- (7) RED
- (8) BLACK
- (9) YELLOW
- (10) VIOLET
- (11) ROSE
- (12) AQUA

BLUE BUFFER
TUBE

- (1) BLUE
- (2) ORANGE
- (3) GREEN
- (4) BROWN
- (5) SLATE
- (6) WHITE
- (7) RED
- (8) BLACK
- (9) YELLOW
- (10) VIOLET
- (11) ROSE
- (12) AQUA

ORANGE BUFFER TUBE
GREEN BUFFER TUBE
BROWN BUFFER TUBE

48 FIBER
CABLE

TO SPLICE CLOSURE
AT WT HARRIS BLVD
& ALLERTON WAY

48 FIBER
CABLE

FROM SPLICE CLOSURE
AT WT HARRIS BLVD
& ROCKY RIVER RD

LEGEND

- EXISTING SPLICE
- // FIBER CUT POINT
- × FIBER REMOVAL
- NEW SPLICE

SPLICE CLOSURE IN FIBER HANDHOLE AT WT HARRIS BLVD & BACK CREEK DR

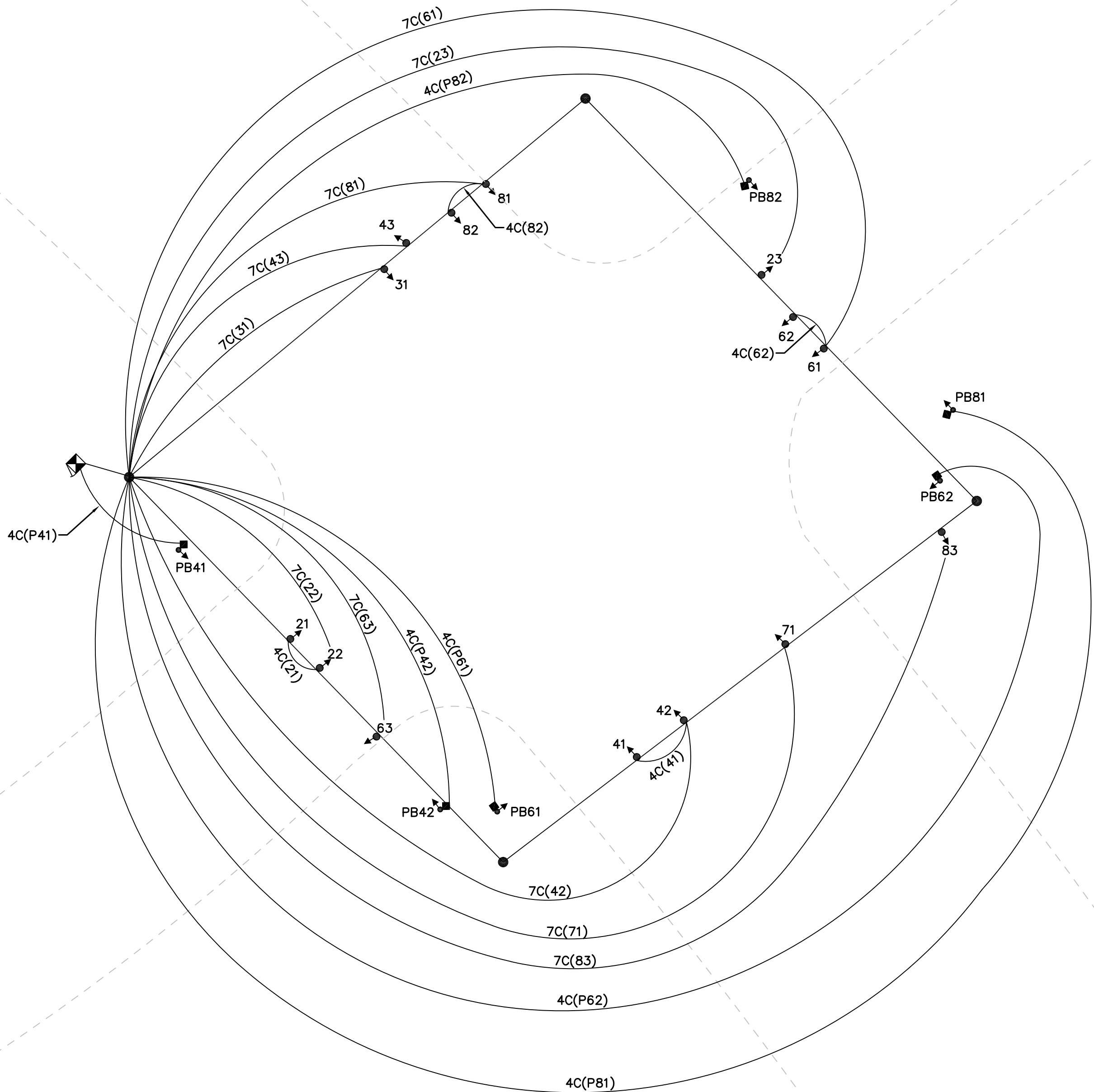
Plans Prepared By:
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ESLAB
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Charlotte, North Carolina 28206
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Fax: (704) 336-4274

CDDT/ITS-11-508	N/A	SCALE
JOB NO.		CAD FILE PATH
M. ODEM		CHECKED BY
PREPARED BY		DATE
APPROVED BY		

WT HARRIS BLVD &
BACK CREEK DR
FIBER OPTIC
SPLICE DETAILS
SHEET
SIG3
OF
SIG5

SIGNAL HEAD WIRING																											
CHANNEL			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16									
PHASE			1	2	3	4	5	6	7	8	2 PED	4 PED	6 PED	8 PED	OL-A	OL-B	OL-C	OL-D									
SIGNAL HEAD NO.			NU	22	21	31	42	41	43	NU	61	62	71	81	82	83	NU	PB41	PB42	PB61	PB62	PB81	PB82	NU	NU	NU	NU
RED	Wire			22R	21R		42R	41R	43R		61R	62R		81R	82R	83R											
	Terminal			LS2-R	[22R]		LS4-R	[42R]	LS4-R		LS6-R	[61R]		LS8-R	[81R]	LS8-R											
YELLOW	Wire			22Y	21Y		42Y	41Y	43Y		61Y	62Y		81Y	82Y	83Y											
	Terminal			LS2-Y	[22Y]		LS4-Y	[42Y]	LS4-Y		LS6-Y	[61Y]		LS8-Y	[81Y]	LS8-Y											
GREEN	Wire			22G	21G		42G	41G	43G		61G	62G		81G	82G	83G											
	Terminal			LS2-G	[22G]		LS4-G	[42G]	LS4-G		LS6-G	[61G]		LS8-G	[81G]	LS8-G											
RED ARROW	Wire					31R							71R														
	Terminal					LS3-R							LS7-R														
YELLOW ARROW	Wire					31Y							71Y														
	Terminal					LS3-Y							LS7-Y														
FLASHING YELLOW	Wire																										
	Terminal																										
GREEN ARROW	Wire					31G							71G														
	Terminal					LS3-G							LS7-G														
DON'T WALK	Wire																	P41R	P42R	P61R	P61R	P81R	P82R				
	Terminal																	LS10-R	LS10-R	LS11-R	LS11-R	LS12-R	LS12-R				
WALK	Wire																	P41G	P42G	P61G	P61G	P81G	P82G				
	Terminal																	LS10-G	LS10-G	LS11-G	LS11-G	LS12-G	LS12-G				
[XX*] = TERMINAL BLOCK IN SIGNAL HEAD LSX* = TERMINAL IN LOAD BAY																											

This is a datalink to "SignalHead HookUpChart" excel file which must be in the same directory as the design DWG.



SIGNAL WIRE NAMING CONVENTION:

CABLES:
xC(nn) x = #of conductors in cable, nn = cable number

WIRES:
nnA nn = cable number, A = conductor in cable

EXAMPLE: 7C(41)

41

GREEN

YELLOW

RED

GREEN/STRIPE

YELLOW/STRIPE

RED/STRIPE

41G

41Y

41R

WHITE (NEUTRAL)

41GS

41YS

41RS

NOTE: Conductor colors may vary. Record plan actual colors installed.

Plans Prepared By:

CITY OF CHARLOTTE
DEPARTMENT OF TRANSPORTATION
600 E. 4TH ST. CHARLOTTE, NC 28202
704.386-4119 FAX 704.386-4400

NO.	DATE	BY	DESCRIPTION

ENGINEER'S SEAL

01781
SIGNAL NO.

10-2295
NC DOT ID NO.

MSB
PREPARED BY

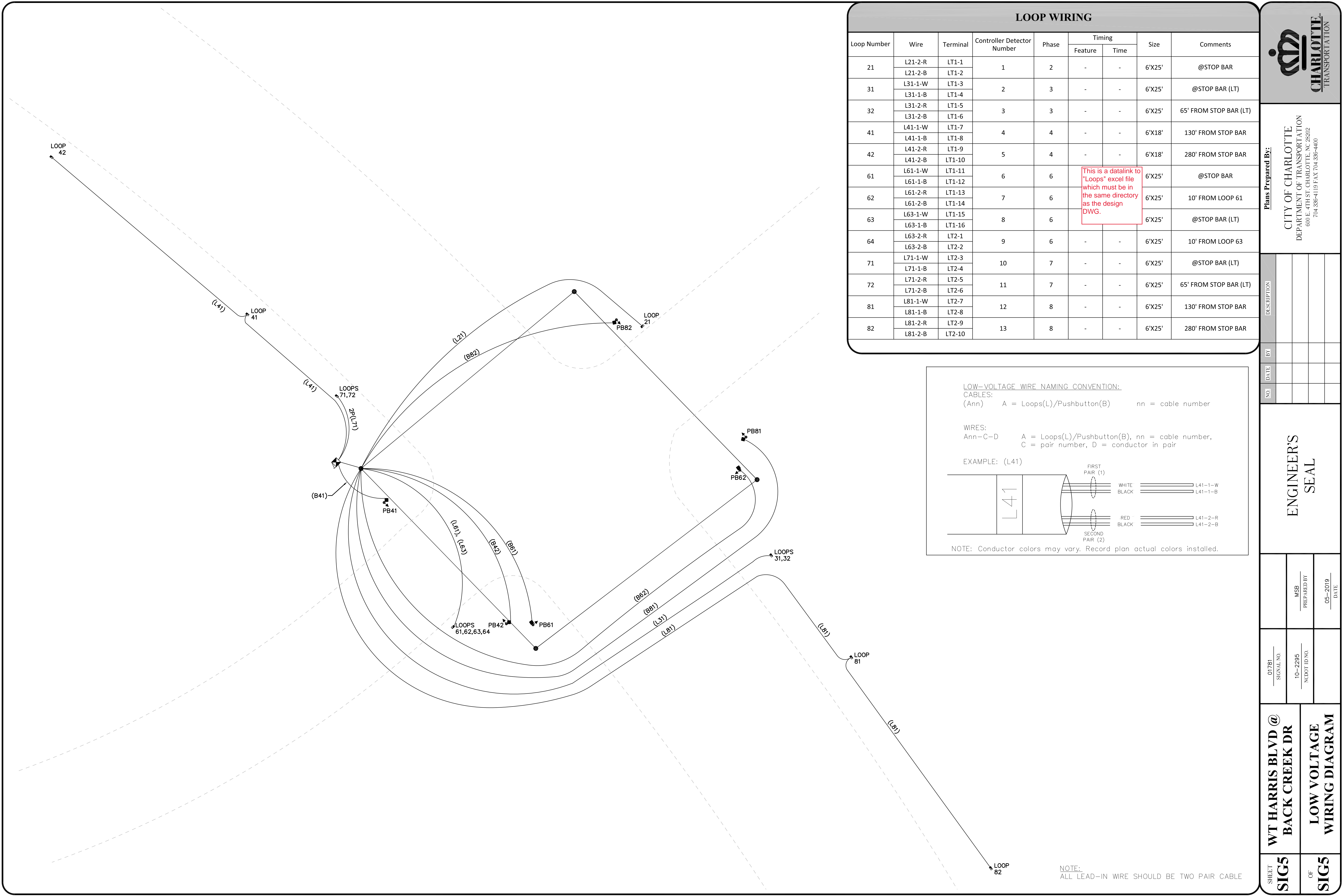
05-2019
DATE

SHEET
SIG4

OF
SIG5

WT HARRIS BLVD @
BACK CREEK DR

SIGNAL
WIRING DIAGRAM



LOOP WIRING								
Loop Number	Wire	Terminal	Controller Detector Number	Phase	Timing		Size	Comments
					Feature	Time		
21	L21-2-R	LT1-1	1	2	-	-	6'X25'	@STOP BAR
	L21-2-B	LT1-2						
31	L31-1-W	LT1-3	2	3	-	-	6'X25'	@STOP BAR (LT)
	L31-1-B	LT1-4						
32	L31-2-R	LT1-5	3	3	-	-	6'X25'	65' FROM STOP BAR (LT)
	L31-2-B	LT1-6						
41	L41-1-W	LT1-7	4	4	-	-	6'X18'	130' FROM STOP BAR
	L41-1-B	LT1-8						
42	L41-2-R	LT1-9	5	4	-	-	6'X18'	280' FROM STOP BAR
	L41-2-B	LT1-10						
61	L61-1-W	LT1-11	6	6	This is a datalink to "Loops" excel file which must be in the same directory as the design DWG.		6'X25'	@STOP BAR
	L61-1-B	LT1-12						
62	L61-2-R	LT1-13	7	6			6'X25'	10' FROM LOOP 61
	L61-2-B	LT1-14						
63	L63-1-W	LT1-15	8	6		6'X25'	@STOP BAR (LT)	
	L63-1-B	LT1-16						
64	L63-2-R	LT2-1	9	6	-	-	6'X25'	10' FROM LOOP 63
	L63-2-B	LT2-2						
71	L71-1-W	LT2-3	10	7	-	-	6'X25'	@STOP BAR (LT)
	L71-1-B	LT2-4						
72	L71-2-R	LT2-5	11	7	-	-	6'X25'	65' FROM STOP BAR (LT)
	L71-2-B	LT2-6						
81	L81-1-W	LT2-7	12	8	-	-	6'X25'	130' FROM STOP BAR
	L81-1-B	LT2-8						
82	L81-2-R	LT2-9	13	8	-	-	6'X25'	280' FROM STOP BAR
	L81-2-B	LT2-10						

LOW-VOLTAGE WIRE NAMING CONVENTION:
CABLES:
(Ann) A = Loops(L)/Pushbutton(B) nn = cable number

WIRES:
Ann-C-D A = Loops(L)/Pushbutton(B), nn = cable number,
 C = pair number, D = conductor in pair

EXAMPLE: (L41)

1

2

3

4

1

2

3

4

NOTE: Conductor colors may vary. Record plan actual colors installed.

Plans Prepared By:

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DEPARTMENT OF TRANSPORTATION
600 E. 4TH ST. CHARLOTTE, NC 28202
704.336-4119 FAX 704.336-4400

NO.	DATE	BY	DESCRIPTION

ENGINEER'S SEAL

WT HARRIS BLVD @
BACK CREEK DR

LOW VOLTAGE
WIRING DIAGRAM

SHEET
SIG5

OF
SIG5

01781
SIGNAL NO.

10-2295
NC DOT ID NO.

MSB
PREPARED BY

05-2019
DATE