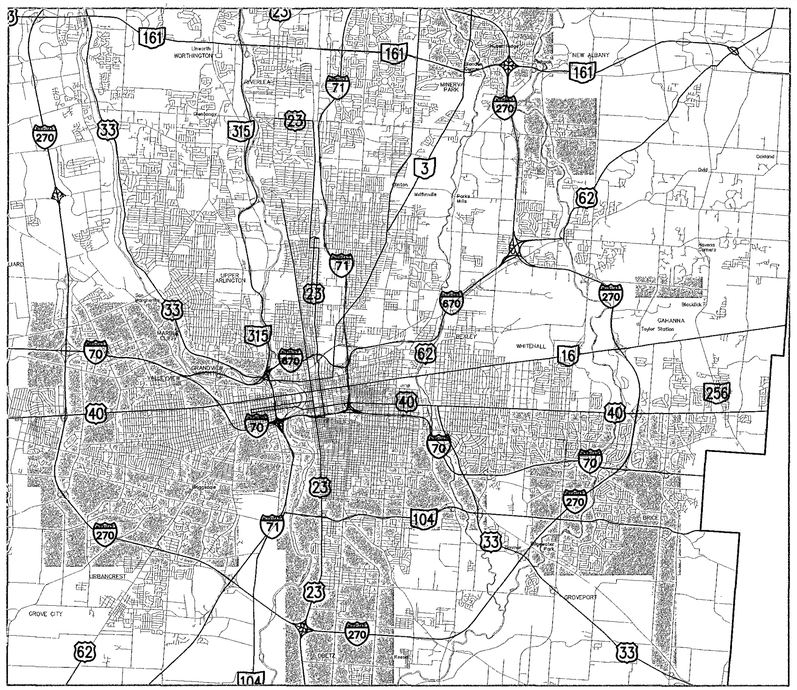
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE C

FRA-COLUMBUS TRAFFIC SIGNAL SYSTEM-PHASE C

VOLUME 1 OF 3



LOCATION MAP

– PROJECT AREA

P.O.B. = LATITUDE: 40° 06' 54" N LONGITUDE: 82° 59' 34" W

SCALE IN MILES

0 2 4 8

JAP Dan C. Ralf 9-11-14
COUNTY ENGINEER DATE

Mark D. Abraham 9-8-14
CHIEF DEPUTY DATE

WE, THE COMMISSIONERS OF FRANKLIN COUNTY IN FORMAL SESSION, HEREBY APPROVE THESE PLANS.

Marilyn Brown 10/7/14
COUNTY COMMISSIONER DATE

Paula Brooks 10/7/14
COUNTY COMMISSIONER DATE

Kevin Boyce 10/7/14
COUNTY COMMISSIONER DATE

UTILITY LEGENDS ON PLAN SHEETS REFERENCE CITY OF COLUMBUS UTILITIES ONLY

HNTB
330 West Spring Street, Suite 310
Columbus, Ohio 43215

Matthew J. Graf 8/22/14
REGISTERED ENGINEER DATE

STATE OF OHIO · MATTHEW J. GRAF · E-73963 · REGISTERED PROFESSIONAL ENGINEER

STUDY AREA
SEE SHEET 2 OF 911

VOL. 1 – INTERCONNECT SHEETS 1 TO 262
VOL. 2 – INTERCONNECT SHEETS 263 TO 596
VOL. 3 – COMMUNICATIONS SHEETS 597 TO 911

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SPECIAL PROVISIONS
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM PHASE C SPECIAL PROVISIONS

ODOT STANDARD CONSTRUCTION DRAWINGS			
HL 30.11	MT 95.50		
HL 30.21	MT 95.60		
HL 30.22	MT 95.61		
MT 35.10	MT 97.10		
MT 95.30	MT 105.10		
MT 95.31	TC 84.20		
MT 95.32	TC 84.21		

ODOT SUPPLEMENTAL SPECIFICATIONS		
SS-800		
SS-804		
SS-815		
SS-904		
SS-906		

CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS REVISED:				
1441 (12/01/13)	2000 (06/01/14)	2010 (08/01/14)	2020 (08/01/14)	2161 (06/01/13)
2166 (06/01/13)	2179 (06/01/13)	2201 (06/01/14)	2202 (06/01/14)	2203 (06/01/14)
2300 (06/01/13)	2303 (06/01/13)	2319 (06/01/13)	4001 (05/01/14)	4002 (05/01/14)
4020 (05/01/14)	4021 (05/01/14)	4022 (05/01/14)	4023 (05/01/14)	4110 (05/01/14)
4111 (05/01/14)	4122 (05/01/14)	4160 (05/01/14)	4162 (05/01/14)	4170 (05/01/14)
4300 (05/01/14)	4330 (05/01/14)	4331 (05/01/14)		

CITY OF COLUMBUS SUPPLEMENTAL SPECIFICATIONS				
1100 (08/01/14)	1541 (01/31/02)	1550 (08/28/02)	1551 (03/01/04)	1630 (11/13/09)

PROJECT DESCRIPTION

THE PURPOSE OF THE CTSS PHASE PROJECTS IS TO MIGRATE THE EXISTING COLUMBUS TRAFFIC SIGNAL SYSTEM TO AN OPEN ARCHITECTURE THAT CAN SERVE CENTRAL OHIO STAKEHOLDERS WITH REGIONAL SYSTEM CONNECTIVITY AND INTEROPERABILITY. PHASE C WILL INSTALL INTERCONNECT AND EQUIPMENT UPGRADES THAT WILL CONNECT 213 SIGNALIZED INTERSECTIONS, 11 PROPOSED COMMUNICATION NODE SITES, 20 PROPOSED OR UPDATED TRAFFIC FLOW MONITOR SITES TO THE UPGRADED CTSS SOFTWARE AND NEWLY CONSTRUCTED TRAFFIC MANAGEMENT CENTER. COMMUNICATIONS NETWORK CONNECTIONS WILL BE COMPRISED OF FIBER OPTIC AND WIRELESS ETHERNET NETWORKS.

2012 SPECIFICATIONS

THE CITY OF COLUMBUS CONSTRUCTION AND MATERIALS SPECIFICATIONS (CMSC), 2012 EDITION INCLUDING ALL REVISIONS AND SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THIS PLAN UNLESS NOTED OTHERWISE.

CITY OF COLUMBUS APPROVALS

CITY OF COLUMBUS SIGNATURES ON THIS PLAN SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSES AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS.

M Dan Ju PE 8-25-14
DESIGN SECTION ENGINEER, DIVISION OF DESIGN AND CONSTRUCTION DATE

David W. Cleaver, PE For H. Johanson 9-3-14
ADMINISTRATOR, DIVISION OF POWER DATE

Dave Blake 9-4-14
ADMINISTRATOR, DIVISION OF SEWERAGE AND DRAINAGE DATE

RC Mastefield 9-3-14
ADMINISTRATOR, DIVISION OF WATER DATE

Greg J. Davis by Andy 9.4.2014
DIRECTOR, DEPARTMENT OF PUBLIC UTILITIES DATE

Lt. Dan Heaton 08/25/14
FIRE PREVENTION BUREAU, DIVISION OF FIRE DATE

David R. Joyce 08/26/14
ENGINEERING SUPERVISOR, DEPARTMENT OF TECHNOLOGY DATE

Kathy Sparks for Alan McKnight 8/25/14
DIRECTOR, DEPARTMENT OF RECREATION AND PARKS DATE

Hassan Y. Zahran /mpa 9-5-14
CITY ENGINEER/ADMINISTRATOR, DIVISION OF DESIGN AND CONSTRUCTION DATE

Tracie Davies /TG 9-5-14
DIRECTOR, DEPARTMENT OF PUBLIC SERVICE DATE

REV NO	REVISION DESCRIPTION	SHEET(S)	INITIAL	DATE
	CONSTRUCTION AS-BUILT			

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www.oups.org

2953-E

FEDERAL PROJECT NUMBER E100(958)

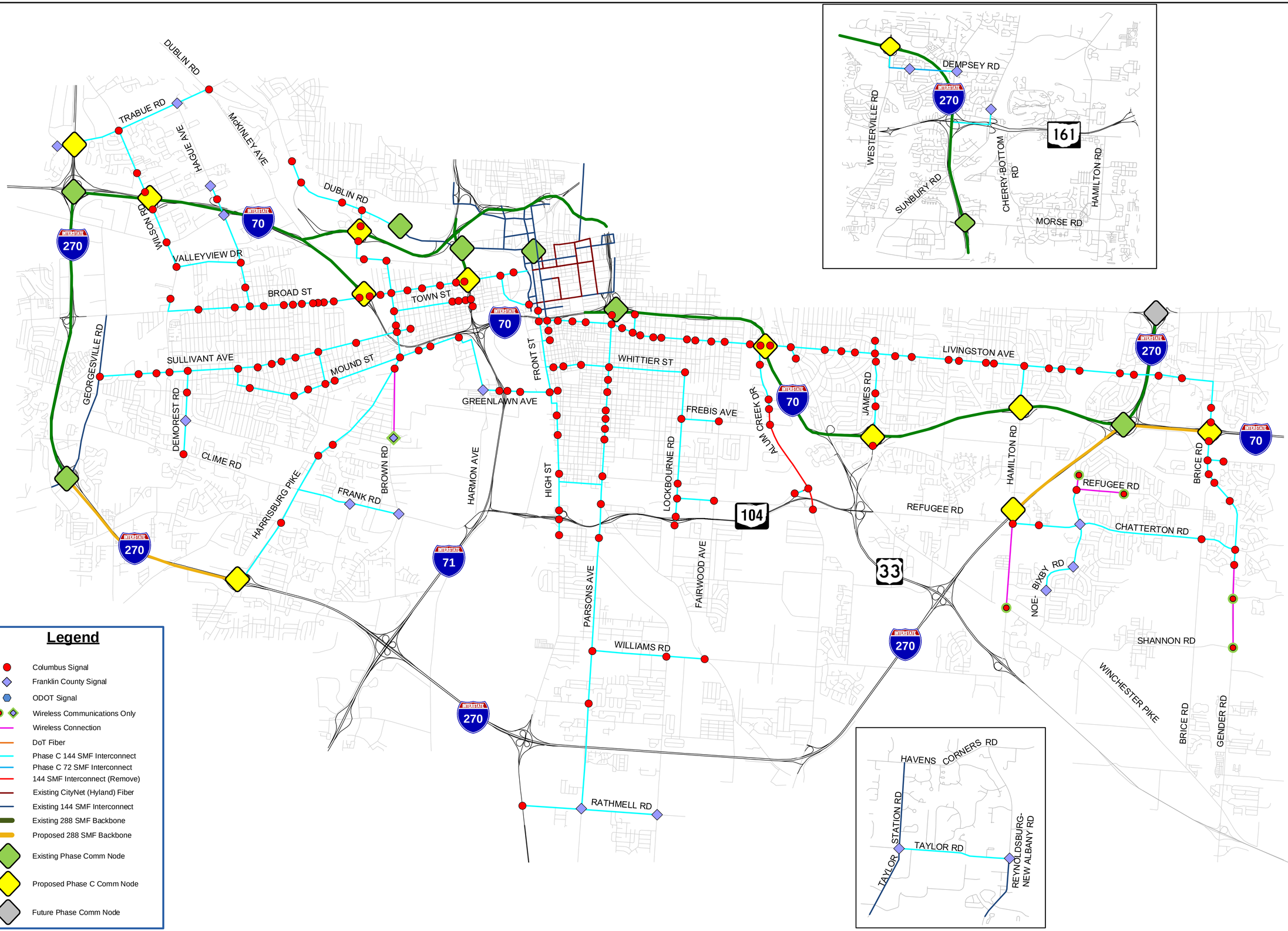
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PID NUMBER: 14522

TITLE SHEET
VOLUME 1 OF 3

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE C – FINAL SUBMITTAL

1
911

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Legend

- Columbus Signal
- Franklin County Signal
- ODOT Signal
- Wireless Communications Only
- Wireless Connection
- DoT Fiber
- Phase C 144 SMF Interconnect
- Phase C 72 SMF Interconnect
- 144 SMF Interconnect (Remove)
- Existing CityNet (Hyland) Fiber
- Existing 144 SMF Interconnect
- Existing 288 SMF Backbone
- Proposed 288 SMF Backbone
- Existing Phase Comm Node
- Proposed Phase C Comm Node
- Future Phase Comm Node

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS OVERVIEW MAP

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

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EXISTING TRAFFIC SYMBOL LEGEND

- SIGNAL HEAD
- TR — EXISTING TRAFFIC CONDUIT
- EXISTING WOODEN UTILITY POLE
- EXISTING OVERHEAD SIGN
- S# — EXISTING OVERHEAD SIGN CALLOUT
- EXISTING STRAIN POLE
- CB — EXISTING SIGNAL CONTROLLER
- PS — EXISTING POWER SUPPLY
- MAST ARM
- RAMP METER, EXISTING
- CCTV — CCTV DEVICE, EXISTING
- OVERHEAD SIGN STRUCTURE, EXISTING
- DETECTOR LOOP, EXISTING
- DETECTOR STATION, EXISTING
- VDS CABINET, EXISTING
- EXISTING PULL BOXES (18", 24", 30", 36" SQUARE)
- EXISTING PULL BOX (30" x 48" RECTANGULAR DOUBLE DOOR)
- EXISTING PULL BOX (18", 725.06 RECTANGULAR; POLYCONCRETE)
- EXISTING PULL BOXES (18", 32" 48" ROUND)
- EXISTING ITS EQUIPMENT CABINET
- EXISTING COMMUNICATION NODE
- SPLICE — EXISTING SPLICE ENCLOSURE
- EXISTING PEDESTRIAN SIGNAL/CROSSWALK PUSH BUTTON POLE
- PED — PEDESTRIAN CROSSWALK SIGNAL
- AMP — COAXIAL AMPLIFIER CABINET
- RED — RED LIGHT CAMERA ASSEMBLY
- VD — EXISTING VIDEO TRAFFIC DETECTOR

UTILITY LEGEND

- CATCH BASIN
- SEWER GRATE
- HYDRANT
- MANHOLE
- COMBINED MANHOLE
- D / ST — STORM MANHOLE
- SANITARY MANHOLE
- W — WATER VALVE
- SD — STORM DRAIN
- S — SANITARY LINE
- W — WATER
- C — COMBINED LINE
- E — E — UNDERGROUND ELECTRIC LINE
- G — G — GAS LINE
- P — PETROLEUM PIPELINE
- GUY WIRE
- GUY ANCHOR

POWER, LIGHTING AND COMMUNICATIONS LEGEND

- LIGHTING CENTER
- L — LIGHTING CONDUIT
- T — TELECOMMUNICATIONS CONDUIT
- HIGH MAST LIGHTING TOWERS
- T — EXISTING TELECOMMUNICATIONS PULL BOX
- E — EXISTING ELECTRICAL PULL BOX
- LUMINARIES
- LIGHT POLE
- UTILITY POLE
- POWER/LIGHT POLE
- TELEPHONE/POWER POLE
- TELEPHONE POLE
- POWER POLE
- TRANSMISSION POWER POLE
- 0000 — STREET ADDRESS
- FO — EXISTING FIBER OPTIC CABLE
- TRANSMISSION TOWER

LAND FEATURE LEGEND

- RAILROAD
- LAKES, RIVERS AND STREAMS
- HEADWALL
- UT — EXISTING UNDERGROUND TANKS
- NOISE WALL
- CABLE BARRIER
- GUARDRAIL
- FENCE
- CENTER LINE
- LA RW — LIMITED ACCESS (RIGHT OF WAY)
- RR R/W — RAILROAD RIGHT OF WAY
- R/W — RIGHT OF WAY LINE
- UTILITY EASEMENT
- SH — SH — STANDARD HIGHWAY RIGHT OF WAY
- EDGE OF PAVEMENT
- ROAD DASH STRIPING
- LANE STRIPING
- FLAG POLE

ABBREVIATIONS

BTW – BETWEEN
CFN – COLUMBUS FIBERNET
CN – CITYNET (HYLAND)
COC – CITY OF COLUMBUS
CONT. – CONTROLLER
CTSS – COLUMBUS TRAFFIC SIGNAL SYSTEM
DOP – DIVISION OF POWER
DOW – DIVISION OF WATER
DOT – DEPARTMENT OF TECHNOLOGY
EA – EACH
EX – EXISTING
FOC – FIBER OPTIC CABLE
FO – FIBER OPTIC
FV – FIELD VERIFIED
IC – INTERCONNECT
INT – INTERSECTION
ITS – INTELLIGENT TRANSPORTATION SYSTEM
LF – LINEAR FEET
OH – OVERHEAD
PB – PULL BOX
PR – PROPOSED
RU – RACK UNIT
SMF – SINGLE MODE FIBER
STA. – STATION
TR or TRF – TRAFFIC
UG – UNDERGROUND
UNK – UNKNOWN
UT – UNDERGROUND TANKS
W/ – WITH

EXISTING UTILITY POLES

- AEP 1865463 760636 — AEP POLE WITH XY COORDINATES
- AT&T 1877088 758521 — AT&T POLE WITH XY COORDINATES
- DOP 760636 — DOP POLE WITH SIX DIGIT ID
- UNK NO ID FV — EXISTING POLE MISSING ID (FIELD VERIFIED)

CONNECTION TYPE
- PC — POLE CLAMP
- SO — STAND OFF
- NC — NO CONTACT

POLE TYPE
- SP — STRAIN POLE
- LP — LIGHT POLE
- MP — MISC. UTILITY POLE

2953-E

FEDERAL PROJECT NUMBER E100(958)

CIP: 540007–100005
PID NUMBER: 14522

EXISTING LEGEND & ABBREVIATIONS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE C – CONSTRUCTION AS–BUILT

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PROPOSED ITS LINETYPES, EXISTING INFRASTRUCTURE

AEF 24 — AEF 24 — AEF 24	EXISTING AERIAL INTERCONNECT, PROPOSED 24 FIBER OVERLASHED TO EXISTING IC
AEF DROP 24 — AEF DROP 24	EXISTING AERIAL INTERCONNECT, PROPOSED 24 FIBER DROP OVERLASHED TO EXISTING IC
AEF 144	EXISTING AERIAL INTERCONNECT, PROPOSED 144 FIBER OVERLASHED TO EXISTING IC
ARF 24 — ARF 24 — ARF 24	EXISTING AERIAL INTERCONNECT, REPLACE WITH 24 FIBER
ARF DROP 24 — ARF DROP 24	EXISTING AERIAL INTERCONNECT, REPLACE WITH 24 FIBER DROP
ARF 144	EXISTING AERIAL INTERCONNECT, REPLACE WITH 144 FIBER
UE5 — — UE5 — —	EXISTING UNDERGROUND CONDUIT, PROPOSED CAT 5
UEF 24 — UEF 24 — UEF 24	EXISTING UNDERGROUND CONDUIT, PROPOSED 24 FIBER
UEF DROP 24 — UEF DROP 24	EXISTING UNDERGROUND CONDUIT, PROPOSED 24 FIBER DROP
UEF DROP 72 — UEF DROP 72	EXISTING UNDERGROUND CONDUIT, PROPOSED 72 FIBER DROP
UEF 144	EXISTING UNDERGROUND CONDUIT, PROPOSED 144 FIBER
UEF 288	EXISTING UNDERGROUND CONDUIT, PROPOSED 288 FIBER
URF 24 — URF 24 — URF 24	EXISTING UNDERGROUND CONDUIT, REPLACE EX IC WITH PROPOSED 24 FIBER
URF DROP 24 — URF DROP 24	EXISTING UNDERGROUND CONDUIT, REPLACE EX IC WITH PROPOSED 24 FIBER DROP
URF 144	EXISTING UNDERGROUND CONDUIT, REPLACE EX IC WITH PROPOSED 144 FIBER
SEF 144	EXISTING STRUCTURAL CONDUIT, PROPOSED 144 FIBER
SRF 144	EXISTING STRUCTURAL CONDUIT, REPLACE EX IC WITH PROPOSED 144 FIBER
SEF 288	EXISTING STRUCTURAL CONDUIT, PROPOSED 288 FIBER
X — X — X — X	EXISTING INTERCONNECT TO BE REMOVED (AND NOT REPLACED)

PROPOSED ITS LINETYPES, PROPOSED INFRASTRUCTURE

AP5 — — AP5 — —	PROPOSED AERIAL CABLE, PROPOSED CAT 5
APC APC APC APC	PROPOSED AERIAL CABLE, PROPOSED CCTV COMPOSITE CABLE
APF 24 — APF 24 — APF 24	PROPOSED AERIAL INTERCONNECT, PROPOSED 24 FIBER
APF DROP 24 — APF DROP 24	PROPOSED AERIAL INTERCONNECT, PROPOSED 24 FIBER DROP
APF 144	PROPOSED AERIAL INTERCONNECT, PROPOSED 144 FIBER
UPF 24 — UPF 24 — UPF 24	PROPOSED UNDERGROUND CONDUIT, PROPOSED 24 FIBER
UPF DROP 24 — UPF DROP 24	PROPOSED UNDERGROUND CONDUIT, PROPOSED 24 FIBER DROP
UPF 144	PROPOSED UNDERGROUND CONDUIT, PROPOSED 144 FIBER
UPF 288	PROPOSED UNDERGROUND CONDUIT, PROPOSED 288 FIBER
— • • UPP • • — • • UPP • • —	PROPOSED UNDERGROUND CONDUIT, PROPOSED UNDERGROUND POWER
UP5 — — UP5 — —	PROPOSED UNDERGROUND CONDUIT, PROPOSED CAT 5
UPC UPC UPC UPC	PROPOSED UNDERGROUND CONDUIT, PROPOSED CCTV COMPOSITE CABLE
SPF 144	PROPOSED STRUCTURAL CONDUIT, PROPOSED 144 FIBER
SPF 288	PROPOSED STRUCTURAL CONDUIT, PROPOSED 288 FIBER
// // // // //	PROPOSED GUY WIRE
— • • APP • • — • • APP • • —	PROPOSED AERIAL POWER

INTERCONNECT CALLOUTS

QUANTITIES INCLUDE ALL FIBER OPTIC CABLE AND ANY ASSOCIATED EQUIPMENT OR INFRASTRUCTURE REQUIRED TO INSTALL THE CABLE BETWEEN PROPOSED FIBER OPTIC SPLICE ENCLOSURES AT ADJACENT CONNECTED INTERSECTIONS. THE FIBER OPTIC SPLICE ENCLOSURE SERVES AS A DELINEATION POINT BETWEEN INTERCONNECT AND INTERSECTION QUANTITIES AND IS ITSELF TYPICALLY INCLUDED WITHIN THE INTERCONNECT QUANTITIES.

THE FOLLOWING ITEMS ARE QUANTIFIED WITHIN THE ASSOCIATED INTERCONNECT QUANTITY SHEET:

IC–# — FIBER OPTIC CABLE
INSTALLED IN EXISTING CONDUIT (CONDUIT CLEANED) OR NEW CONDUIT
- INSTALLED IN NEW CONDUIT
- INSTALLED ON NEW MESSENGER WIRE
- OVERLASHED TO EXISTING OVERHEAD INTERCONNECT
- REPLACING EXISTING OVERHEAD INTERCONNECT

SE %–# — FIBER OPTIC SPLICE ENCLOSURE
- % – DENOTES ENCLOSURE TYPE
- A: AERIAL, U: UNDERGROUND

SLK–% ###' — FIBER OPTIC CABLE SLACK
- % – DENOTES SLACK TYPE
- A: AERIAL, U: UNDERGROUND
- ###': LENGTH OF SLACK

R–# — REMOVE EXISTING EQUIPMENT

CN–# — COMMUNICATIONS NODE CABINET

TC–# — SIGNAL CONTROL CABINET
- 24 STRAND FIBER OPTIC TERMINATION PANEL OR 48 STRAND FIBER OPTIC TERMINATION PANEL
- LAYER 2 ETHERNET NETWORK SWITCH
- FIBER OPTIC–ETHERNET TRANSCEIVER
- ETHERNET–SERIAL DATA TERMINAL SERVER OR TRAFFIC SIGNAL CONTROLLER

EC–# — EQUIPMENT DATA/POWER CABLE

EC–# IC–# — EQUIPMENT DATA/POWER CABLE AND FIBER OPTIC CABLE

IC–# IC–# — FIBER OPTIC CABLE, TWO VARYING TYPES

WR–# — WIRELESS NETWORK RADIO

CTV–# — CCTV TRAFFIC SURVEILLANCE CAMERA

CITY OF COLUMBUS UTILITY LEGEND

SEWER	EXISTING SEWER LINES IN THE VICINITY OF PROPOSED UNDERGROUND WORK.
WATER	EXISTING WATER LINES IN THE VICINITY OF PROPOSED UNDERGROUND WORK.
POWER	EXISTING UNDERGROUND POWER LINES OR FACILITIES ARE WITHIN THE VICINITY OF PROPOSED UNDERGROUND WORK – OR – PROPOSED AERIAL INTERCONNECT CABLE IS TO BE INSTALLED IN THE VICINITY OF EXISTING OVERHEAD POWER LINES.
LIGHTING	EXISTING UNDERGROUND LIGHTING LINES OR FACILITIES ARE WITHIN THE VICINITY OF PROPOSED UNDERGROUND WORK – OR – PROPOSED AERIAL INTERCONNECT CABLE IS TO BE INSTALLED IN THE VICINITY OF EXISTING OVERHEAD STREET LIGHTING LINES.
(#)	EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

PROPOSED ITS SYMBOL LEGEND

- PROPOSED WOODEN UTILITY POLE
- PROPOSED GUY WIRE ANCHOR
- CB — SIGNAL CONTROLLER REPLACED
- CCTV DEVICE, PROPOSED
- PROPOSED WIRELESS ANTENNA
- PROPOSED ITS EQUIPMENT CABINET
- PROPOSED COMMUNICATION NODE
- PROPOSED MEDIAN JUNCTION BOX, 36"
- PROPOSED PULL BOXES (18" 725.06; POLYCONCRETE)
- PROPOSED PULL BOXES (18", 24" SQUARE)
- PROPOSED PULL BOXES (18", 32", 48" ROUND)
- BORE PIT, 4'X8'
- BRACKET ARM
- TRENCH IN PAVEMENT

2953-E

FEDERAL PROJECT NUMBER E100(958)

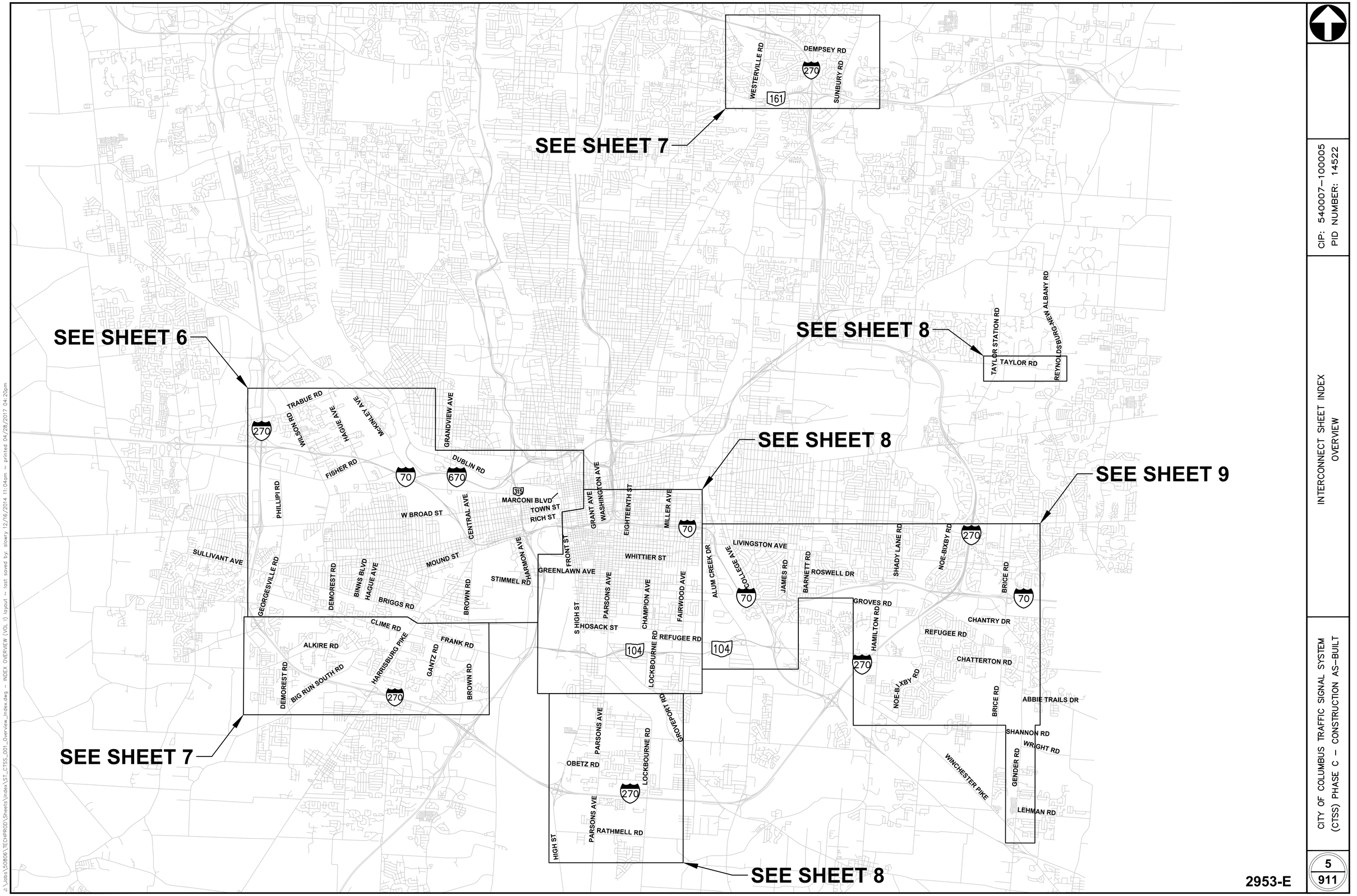
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PID NUMBER: 14522

PROPOSED LINETYPE AND SYMBOL LEGEND

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE C – CONSTRUCTION AS–BUILT

4
911

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2953-E

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INTERCONNECT SHEET INDEX
OVERVIEW

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

5
911

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TRABUE RD
McKINLEY AVE
DUBLIN RD
FISHER RD
WILSON RD
HAUGE AVE
GRANDVIEW AVE
McKINLEY AVE
NATIONWIDE BLVD
FOURTH ST
MARCONI BLVD
FRONT ST
PHILLIPI RD
W BROAD ST
CENTRAL AVE
TOWN ST
BELLE ST
RICH ST
SULLIVANT AVE
MOUND ST
HARMON AVE
HARRISBURG PKE
GREENLAWN AVE
STIMMEL RD
GEORGESVILLE RD
CLIME RD
DEMOREST RD
BINNS BLVD
HAGUE AVE
BRIGGS RD
BROWN RD

INTERSTATE 270
INTERSTATE 70
INTERSTATE 670
315

MATCH LINE, SEE SHEET 8
MATCH LINE, SEE SHEET 8
MATCH LINE, SEE SHEET 7

2953-E

FEDERAL PROJECT NUMBER
E100(958)

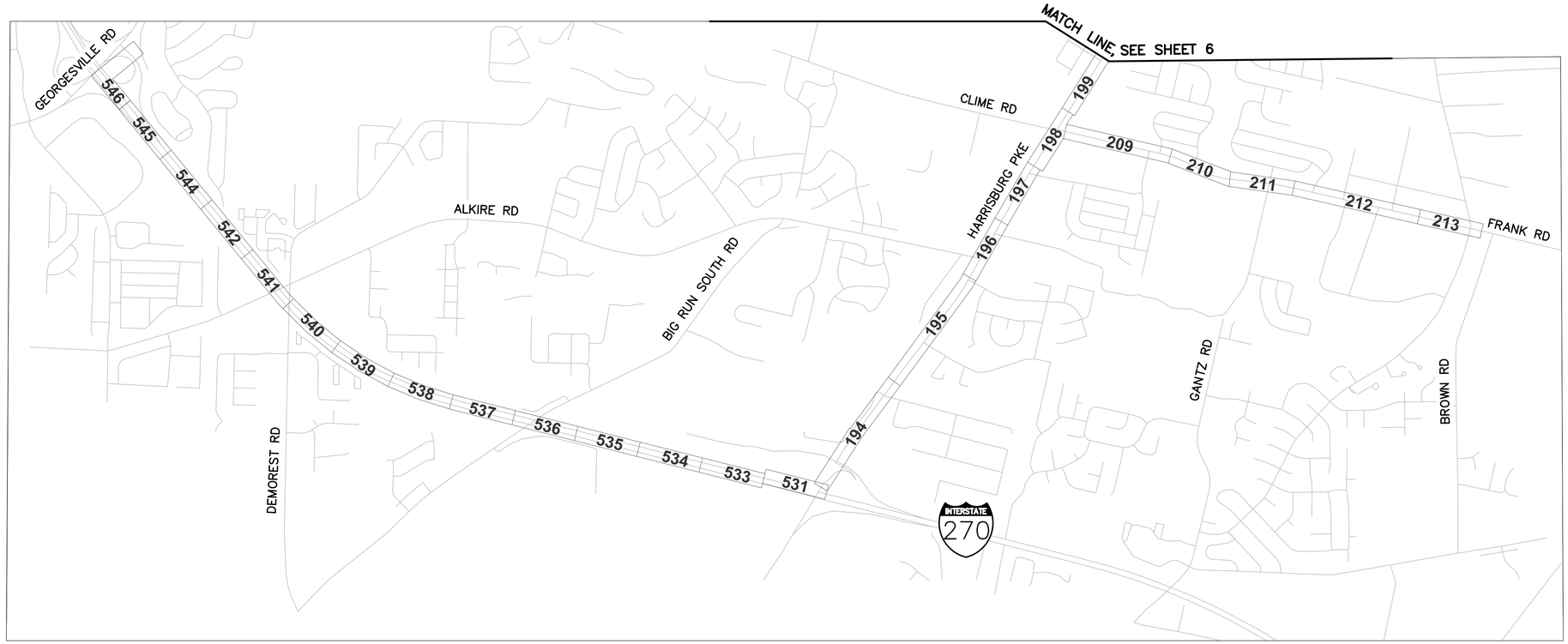
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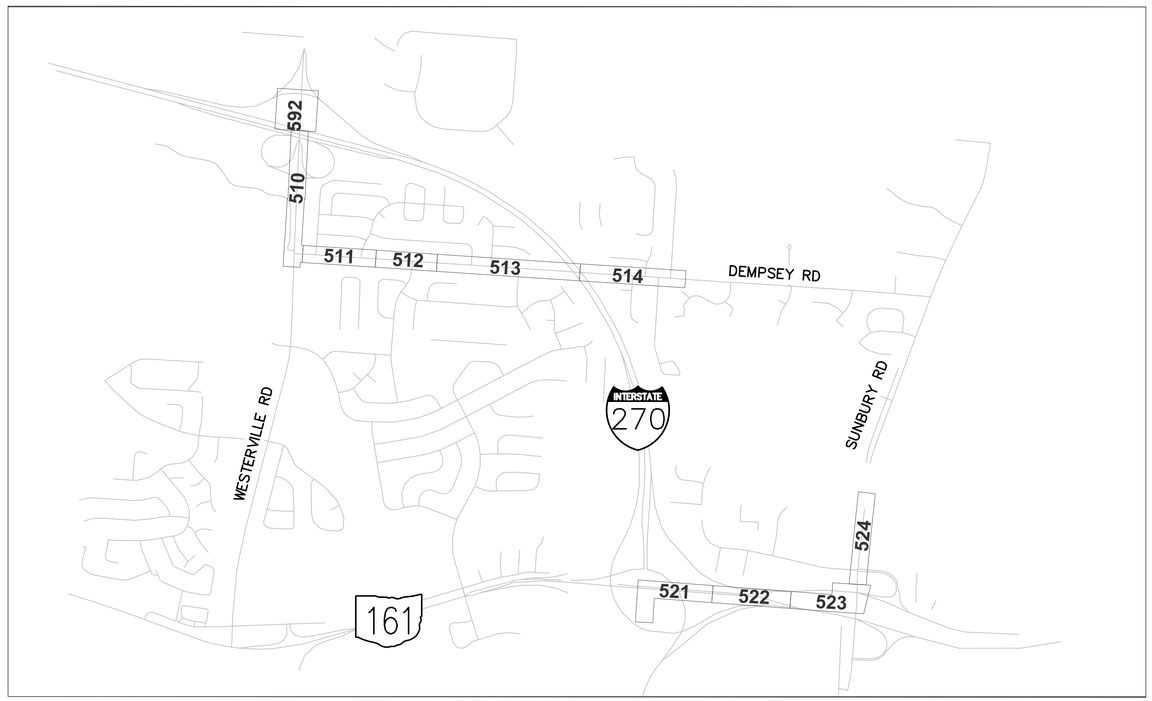
INTERCONNECT SHEET INDEX
(1 OF 4)

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

6
911

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2953-E

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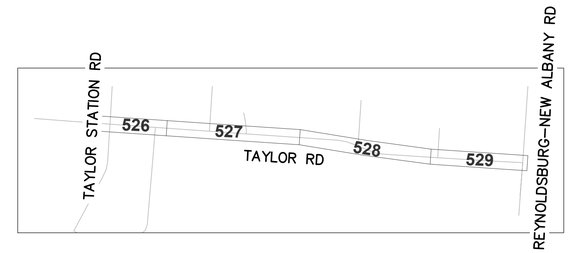
INTERCONNECT SHEET INDEX
(2 OF 4)

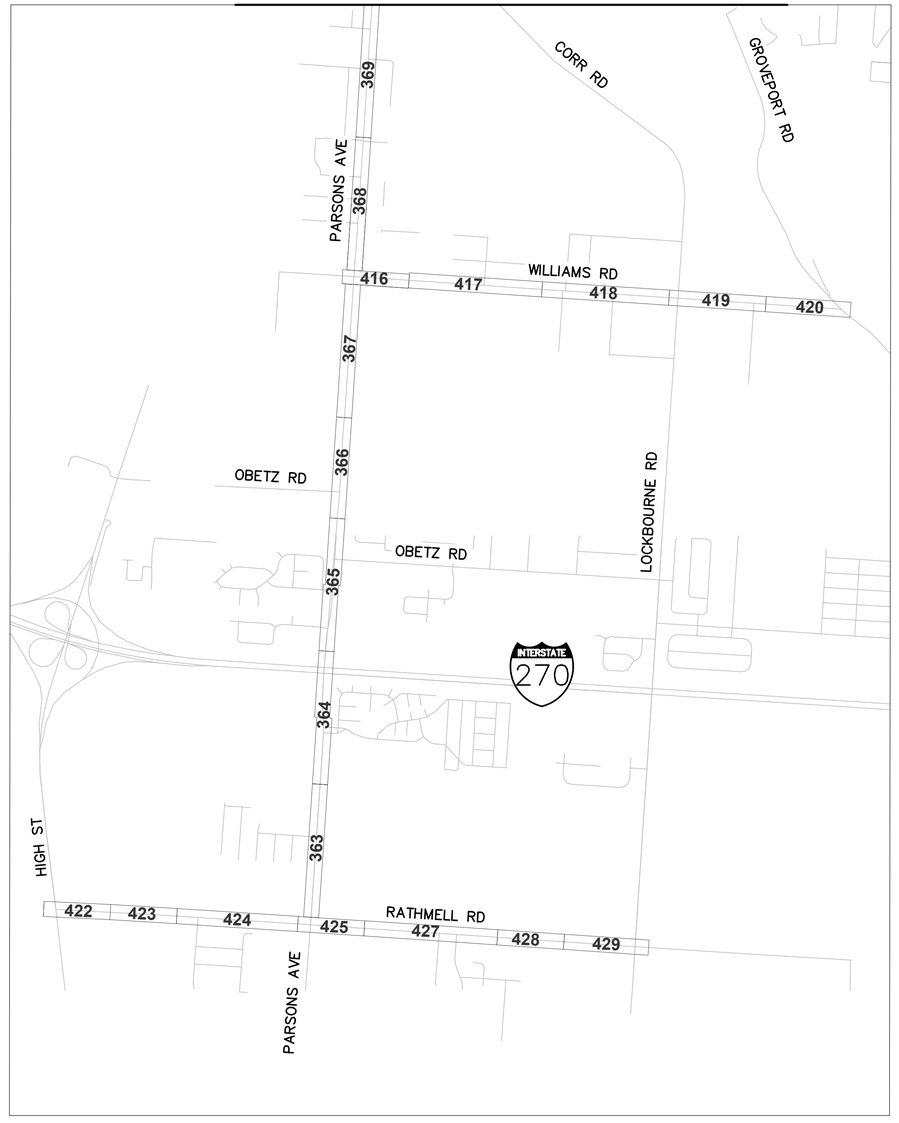
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

7
911

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2953-E

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PID NUMBER: 14522

INTERCONNECT SHEET INDEX
(3 OF 4)

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

8
911

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MATCH LINE, SEE SHEET 8

MATCH LINE A, SEE THIS SHEET

MATCH LINE A, SEE THIS SHEET

LIVINGSTON AVE
ROSWELL DR
GROVES RD
REFUGEE RD
CHANTRY DR
CHATTERTON RD
ABBIE TRAILS DR
WRIGHT RD
LEHMAN RD
WINCHESTER PIKE
SHANNON RD
COLLEGE AVE
ALUM CREEK DR
JAMES RD
BARNETT RD
SHADY LANE RD
NOE-BIXBY RD
McNAUGHTEN RD
BRICE RD
HAMILTON RD
GENDER RD

INTERSTATE 70
INTERSTATE 270
104

CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT SHEET INDEX
(4 OF 4)

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

9
911

2953-E

J:\Jobs\50806\TECHPROD\Sheets\Index\ST_CTSS_001_Index.dwg - INTERCONNECT INDEX-4 (VOL I) layout ~ last saved by gburch 10/14/2014 03:24pm ~ printed 04/28/2017 04:21pm

INT #	SHEET #	INTERSECTION NAME	CORRIDOR	STATION
0031	93	INT# 0031: CIVIC CENTER DR. AT TOWN ST.	TOWN ST.	STA. 88+08 TO 97+18
0074	260	INT# 0074: FRONT ST. AT MAIN ST.	FRONT ST.	N/A
0082	259	INT# 0082: FRONT ST. AT MOUND ST.	FRONT ST.	STA. 997+00 TO 1007+00
0090	259	INT# 0090: FRONT ST. AT LIVINGSTON AVE.	FRONT ST.	STA. 997+00 TO 1007+00
0091	303	INT# 0091: HIGH ST. AT LIVINGSTON AVE.	LIVINGSTON AVE.	STA. 995+75 TO 1006+50
0092	305	INT# 0092: LIVINGSTON AVE. AT THIRD ST.	LIVINGSTON AVE.	STA. 1006+50 TO 1013+50
1001	91	INT# 1001: BELLE ST. AT BROAD ST.	BROAD ST.	STA. 656+00 TO 667+00
1004	87	INT# 1004: BROAD ST. AT SR-315 SB OFFRAMP	BROAD ST.	STA. 630+00 TO 634+00
1005	86	INT# 1005: BROAD ST. AT DAVIS AVE.	BROAD ST.	STA. 623+00 TO 630+00
1006	85	INT# 1006: BROAD ST. AT HAWKES AVE.	BROAD ST.	STA. 610+00 TO 623+00
1007	84	INT# 1007: BROAD ST. AT GLENWOOD AVE.	BROAD ST.	STA. 592+00 TO 610+00
1009	83	INT# 1009: BROAD ST. AT CHICAGO AVE.	BROAD ST.	STA. 581+00 TO 592+00
1010	81	INT# 1010: BROAD ST. AT CENTRAL AVE.	BROAD ST.	STA. 575+00 TO 581+00
1011	79	INT# 1011: BROAD ST. AT I-70 WB RAMPS	BROAD ST.	STA. 558+00 TO 566+00
1012	78	INT# 1012: BROAD ST. AT I-70 EB RAMPS	BROAD ST.	STA. 539+50 TO 558+00
1013	219	INT# 1013: CENTRAL AVE. AT TOWN ST.	CENTRAL AVE.	STA. 40+00 TO 53+00
1014	218	INT# 1014: CENTRAL AVE. AT I-70 WB OFF RAMP	CENTRAL AVE.	STA. 29+50 TO 40+00
1015	217	INT# 1015: CENTRAL AVE. AT SULLIVANT AVE.	CENTRAL AVE.	STA. 23+00 TO 29+50
1016	143	INT# 1016: CENTRAL AVE./HARRISBURG PIKE. AT MOUND ST.	MOUND ST.	STA. 133+00 TO 144+00
1017	207	INT# 1017: BROWN RD. AT HARRISBURG PIKE	HARRISBURG PIKE	STA. 240+00 TO 251+00
1018	146	INT# 1018: GLENWOOD AVE. AT MOUND ST.	MOUND ST.	STA. 155+00 TO 166+00
1019	146	INT# 1019: I-70 RAMPS AT MOUND ST.	MOUND ST.	STA. 155+00 TO 166+00
1021	118	INT# 1021: LARCOMB AVE. AT SULLIVANT AVE.	SULLIVANT AVE.	STA. 320+00 TO 331+00
1022	80	INT# 1022: BROAD ST. AT STEVENS AVE.	BROAD ST.	STA. 566+00 TO 575+00
1023	116	INT# 1023: SULLIVANT AVE. AT WHITETHORNE AVE.	SULLIVANT AVE.	STA. 298+00 TO 309+00
1024	114	INT# 1024: SULLIVANT AVE. AT WAYNE AVE.	SULLIVANT AVE.	STA. 275+00 TO 286+00
1025	112	INT# 1025: RICHARDSON AVE. AT SULLIVANT AVE.	SULLIVANT AVE.	STA. 264+00 TO 275+00
1026	111	INT# 1026: OGDEN AVE. AT SULLIVANT AVE.	SULLIVANT AVE.	STA. 253+00 TO 264+00
1027	110	INT# 1027: HAGUE AVE. AT SULLIVANT AVE.	SULLIVANT AVE.	STA. 240+00 TO 253+00
1028	109	INT# 1028: BINNS BLVD. AT SULLIVANT AVE.	SULLIVANT AVE.	STA. 229+00 TO 240+00
1030	105	INT# 1030: DEMOREST RD. AT SULLIVANT AVE.	SULLIVANT AVE.	STA. 196+00 TO 207+00
1031	104	INT# 1031: KINGSFORD RD./WILSON RD. AT SULLIVANT AVE.	SULLIVANT AVE.	STA. 185+00 TO 196+00
1032	102	INT# 1032: HOLLY HILL DR. AT SULLIVANT AVE.	SULLIVANT AVE.	STA. 163+00 TO 174+00
1034	100	INT# 1034: GEORGESVILLE RD. AT SULLIVANT AVE.	SULLIVANT AVE.	STA. 142+08 TO 152+00
1037	159	INT# 1037: DEMOREST RD. AT EAKIN RD.	DEMOREST RD.	STA. 113+00 TO 124+00
1038	77	INT# 1038: BROAD ST. AT LECHNER AVE.	BROAD ST.	STA. 528+50 TO 539+50
1039	77	INT# 1039: BELVIDERE AVE. AT BROAD ST.	BROAD ST.	STA. 528+50 TO 539+50
1040	75	INT# 1040: BROAD ST. AT MIDLAND AVE.	BROAD ST.	STA. 521+00 TO 528+50
1041	74	INT# 1041: BROAD ST. AT HIGHLAND AVE.	BROAD ST.	STA. 513+00 TO 521+00
1042	73	INT# 1042: BROAD ST. AT OAKLEY AVE.	BROAD ST.	STA. 503+50 TO 513+00
1043	72	INT# 1043: BROAD ST. AT EUREKA AVE.	BROAD ST.	STA. 492+00 TO 503+50
1044	75	INT# 1044: BROAD ST. AT WHITETHORNE AVE.	BROAD ST.	STA. 521+00 TO 528+50
1045	70	INT# 1045: BROAD ST. AT OGDEN AVE.	BROAD ST.	STA. 480+00 TO 492+00
1046	68	INT# 1046: BROAD ST. AT HAGUE AVE.	BROAD ST.	N/A
1047	184	INT# 1047: HAGUE AVE. AT STEELE AVE.	HAGUE AVE.	STA. 1001+00 TO 1017+50
1048	68	INT# 1048: BROAD ST. AT ROYS AVE.	BROAD ST.	N/A
1050	64	INT# 1050: BROAD ST. AT SYLVAN AVE.	BROAD ST.	STA. 436+00 TO 447+00
1056	129	INT# 1056: SANDUSKY ST. AT TOWN ST.	SANDUSKY ST.	STA. 0+00 TO 4+42
1057	127	INT# 1057: SR-315 SB OFF RAMP / PLATO PL. AT TOWN ST.	TOWN ST.	STA. 49+00 TO 54+00
1058	126	INT# 1058: DAVIS AVE. AT TOWN ST.	TOWN ST.	STA. 40+00 TO 49+00
1059	127	INT# 1059: GREEN ST. AT TOWN ST.	TOWN ST.	STA. 49+00 TO 54+00
1066	129	INT# 1066: RICH ST. AT SANDUSKY ST.	SANDUSKY ST.	STA. 0+00 TO 4+42
1067	148	INT# 1067: MOUND ST. AT SOUDER AVE.	MOUND ST.	STA. 177+00 TO 188+00
1073	121	INT# 1073: GLENWOOD AVE. AT SULLIVANT AVE.	SULLIVANT AVE.	STA. 368+50 TO 379+50
1076	238	INT# 1076: GREENLAWN AVE. AT I-71 SB RAMPS	GREENLAWN AVE.	STA. 18+00 TO 24+00
1077	239	INT# 1077: GREENLAWN AVE. AT I-71 NB RAMPS	GREENLAWN AVE.	STA. 24+00 TO 28+00
1078	241	INT# 1078: DECKENBACH RD. AT GREENLAWN AVE.	GREENLAWN AVE.	STA. 28+00 TO 38+00
1079	203	INT# 1079: EAKIN RD./HOPKINS AVE. AT HARRISBURG PIKE	HARRISBURG PIKE	STA. 185+00 TO 196+00
1082	139	INT# 1082: BELVIDERE AVE. AT MOUND ST.	MOUND ST.	STA. 89+00 TO 100+00
1083	137	INT# 1083: MOUND ST. AT WHITETHORNE AVE.	MOUND ST.	STA. 78+00 TO 89+00
1084	136	INT# 1084: MOUND ST. AT WHEATLAND AVE.	MOUND ST.	STA. 67+00 TO 78+00
1085	135	INT# 1085: MOUND ST. AT WAYNE AVE.	MOUND ST.	STA. 56+00 TO 67+00
1087	132	INT# 1087: HAGUE AVE. AT MOUND ST.	MOUND ST.	STA. 23+00 TO 34+00
1090	196	INT# 1090: ALKIRE RD. AT HARRISBURG PIKE	HARRISBURG PIKE	STA. 107+00 TO 118+00
1092	156	INT# 1092: CLIME RD. AT DEMOREST RD.	DEMOREST RD.	STA. 80+00 TO 91+00
1093	201	INT# 1093: BRIGGS RD. / OCTOBER RIDGE DR. AT HARRISBURG PIKE	HARRISBURG PIKE	STA. 162+00 TO 173+00
1110	103	INT# 1110: SULLIVANT AVE. AT WEDGEWOOD DR.	SULLIVANT AVE.	STA. 174+00 TO 185+00
2000	324	INT# 2000: ALUM CREEK DR. AT LIVINGSTON AVE.	LIVINGSTON AVE.	STA. 1148+00 TO 1156+00
2001	442	INT# 2001: ALUM CREEK DR. AT I-70 EB RAMPS	ALUM CREEK DR.	STA. 286+00 TO 294+00
2002	334	INT# 2002: JAMES RD. AT LIVINGSTON AVE.	LIVINGSTON AVE.	STA. 1230+00 TO 1241+00
2003	450	INT# 2003: DOVER RD. AT JAMES RD.	JAMES RD.	STA. 156+00 TO 166+00
2004	306	INT# 2004: LIVINGSTON AVE. AT MOHAWK AVE.	LIVINGSTON AVE.	STA. 1013+50 TO 1023+00
2005	310	INT# 2005: LIVINGSTON AVE. AT WAGER ST.	LIVINGSTON AVE.	STA. 1047+00 TO 1052+00
2006	307	INT# 2006: GRANT AVE. AT LIVINGSTON AVE.	LIVINGSTON AVE.	STA. 1023+00 TO 1036+50

INT #	SHEET #	INTERSECTION NAME	CORRIDOR	STATION
2007	309	INT# 2007: LIVINGSTON AVE. AT PARSONS AVE.	LIVINGSTON AVE.	STA. 1036+50 TO 1047+00
2010	315	INT# 2010: LIVINGSTON AVE. AT OHIO AVE.	LIVINGSTON AVE.	STA. 1069+50 TO 1080+00
2011	317	INT# 2011: CHAMPION AVE. AT LIVINGSTON AVE.	LIVINGSTON AVE.	STA. 1080+00 TO 1091+00
2012	319	INT# 2012: LIVINGSTON AVE. AT LOCKBOURNE RD.	LIVINGSTON AVE.	STA. 1099+50 TO 1110+00
2013	319	INT# 2013: LIVINGSTON AVE. AT MILLER AVE.	LIVINGSTON AVE.	STA. 1099+50 TO 1110+00
2014	320	INT# 2014: KELTON AVE. AT LIVINGSTON AVE.	LIVINGSTON AVE.	STA. 1110+00 TO 1121+00
2015	321	INT# 2015: FAIRWOOD AVE. AT LIVINGSTON AVE.	LIVINGSTON AVE.	STA. 1121+00 TO 1132+00
2016	322	INT# 2016: LIVINGSTON AVE. AT NELSON RD.	LIVINGSTON AVE.	STA. 1132+00 TO 1148+00
2017	325	INT# 2017: I-70 WB RAMPS AT LIVINGSTON AVE.	LIVINGSTON AVE.	STA. 1156+00 TO 1165+00
2018	326	INT# 2018: COLLEGE AVE. AT LIVINGSTON AVE.	LIVINGSTON AVE.	STA. 1165+00 TO 1176+25
2019	330	INT# 2019: LIVINGSTON AVE. AT ROOSEVELT AVE.	LIVINGSTON AVE.	STA. 1197+50 TO 1208+50
2020	332	INT# 2020: KENWICK RD. AT LIVINGSTON AVE.	LIVINGSTON AVE.	STA. 1208+50 TO 1219+00
2022	335	INT# 2022: LIVINGSTON AVE. AT ZETTLER RD.	LIVINGSTON AVE.	STA. 1241+00 TO 1252+00
2023	336	INT# 2023: BARNETT RD. AT LIVINGSTON AVE.	LIVINGSTON AVE.	STA. 1252+00 TO 1263+00
2025	340	INT# 2025: COURTRIGHT RD. AT LIVINGSTON AVE.	LIVINGSTON AVE.	STA. 1285+00 TO 1293+00
2026	341	INT# 2026: BEECHWOOD RD. AT LIVINGSTON AVE.	LIVINGSTON AVE.	STA. 1293+00 TO 1307+00
2027	342	INT# 2027: LIVINGSTON AVE. AT YEARLING RD.	LIVINGSTON AVE.	STA. 1307+00 TO 1318+00
2028	343	INT# 2028: ELAINE RD. AT LIVINGSTON AVE.	LIVINGSTON AVE.	STA. 1318+00 TO 1329+00
2029	349	INT# 2029: HAMILTON RD. AT LIVINGSTON AVE.	LIVINGSTON AVE.	STA. 1339+00 TO 1350+00
2030	350	INT# 2030: LIVINGSTON AVE. AT SHADY LANE RD.	LIVINGSTON AVE.	STA. 1350+00 TO 1361+00
2031	351	INT# 2031: COUNTRY CLUB RD. AT LIVINGSTON AVE.	LIVINGSTON AVE.	STA. 1361+00 TO 1370+50
2032	352	INT# 2032: LATTIMER DR. AT LIVINGSTON AVE.	LIVINGSTON AVE.	STA. 1370+50 TO 1381+50
2041	383	INT# 2041: PARSONS AVE. AT WHITTIER ST.	PARSONS AVE.	STA. 406+00 TO 417+00
2042	382	INT# 2042: PARSONS AVE. AT STEWART AVE	PARSONS AVE.	STA. 395+00 TO 406+00
2043	381	INT# 2043: PARSONS AVE. AT THURMAN AVE.	PARSONS AVE.	STA. 384+00 TO 395+00
2045	380	INT# 2045: FREBIS AVE. AT PARSONS AVE.	PARSONS AVE.	STA. 373+00 TO 384+00
2046	379	INT# 2046: JENKINS AVE. AT PARSONS AVE.	PARSONS AVE.	STA. 362+00 TO 373+00
2047	377	INT# 2047: MARKISON AVE. AT PARSONS AVE.	PARSONS AVE.	STA. 347+00 TO 362+00
2049	375	INT# 2049: BARTHMAN AVE. AT PARSONS AVE.	PARSONS AVE.	STA. 325+00 TO 336+00
2051	374	INT# 2051: GROVEPORT RD. AT PARSONS AVE.	PARSONS AVE.	STA. 314+00 TO 325+00
2052	256	INT# 2052: FRONT ST. AT SYCAMORE ST.	FRONT ST.	STA. 968+00 TO 986+00
2054	254	INT# 2054: FRONT ST. AT GREENLAWN AVE.	FRONT ST.	STA. 940+00 TO 950+00
2055	261	INT# 2055: HIGH ST. AT SYCAMORE ST.	SYCAMORE ST.	STA. 1+25 TO 5+00
2056	387	INT# 2056: HIGH ST. AT WHITTIER ST.	WHITTIER ST.	STA. 4+25 TO 14+00
2057	379	INT# 2057: PARSONS AVE. AT SHELDON AVE.	PARSONS AVE.	STA. 362+00 TO 373+00
2058	252	INT# 2058: GREENLAWN AVE./THURMAN AVE. AT HIGH ST.	HIGH ST.	STA. 205+00 TO 215+00
2059	251	INT# 2059: HIGH ST. AT MOLER ST.	HIGH ST.	STA. 194+00 TO 205+00
2060	249	INT# 2060: HIGH ST. AT SOUTHWOOD AVE.	HIGH ST.	STA. 184+00 TO 194+00
2061	247	INT# 2061: BARTHMAN AVE. AT HIGH ST.	HIGH ST.	STA. 154+00 TO 165+00
2062	245	INT# 2062: HIGH ST. AT SR-104 WB RAMPS	HIGH ST.	STA. 123+00 TO 134+00
2063	245	INT# 2063: HIGH ST. AT SR-104 EB RAMPS	HIGH ST.	STA. 123+00 TO 134+00
2064	244	INT# 2064: DERING AVE. AT HIGH ST.	HIGH ST.	STA. 112+00 TO 123+00
2071	304	INT# 2071: HIGH ST. AT HOSTER ST.	HIGH ST.	STA. 0+00 TO 5+65
2072	388	INT# 2072: THIRD ST. AT WHITTIER ST.	WHITTIER ST.	STA. 14+00 TO 25+00
2074	389	INT# 2074: JAEGER ST. AT WHITTIER ST.	WHITTIER ST.	STA. 25+00 TO 36+00
2078	385	INT# 2078: CHILDREN'S CROSSROAD AT PARSONS AVE.	PARSONS AVE.	STA. 438+00 TO 441+90
2080	372	INT# 2080: DERING AVE. AT PARSONS AVE.	PARSONS AVE.	STA. 282+00 TO 299+00
2081	314	INT# 2081: EIGHTEENTH ST. AT LIVINGSTON AVE.	LIVINGSTON AVE.	STA. 1061+00 TO 1069+50
2082	327	INT# 2082: COLLEGE AVE. AT EUCLAIRE AVE.	COLLEGE AVE.	STA. 197+00 TO 207+25
2083	416	INT# 2083: PARSONS AVE. AT WILLIAMS RD.	WILLIAMS RD.	STA. 25+00 TO 36+00
2084	419	INT# 2084: LOCKBOURNE RD. AT WILLIAMS RD.	WILLIAMS RD.	STA. 79+00 TO 95+00
2085	420	INT# 2085: GROVEPORT RD. AT WILLIAMS RD.	WILLIAMS RD.	STA. 95+00 TO 109+00
2116	312	INT# 2116: EIGHTEENTH ST. AT MOOBERRY ST.	EIGHTEENTH ST.	STA. 12+00 TO 25+00
2122	395	INT# 2122: LOCKBOURNE RD. AT WHITTIER ST.	WHITTIER ST.	STA. 93+00 TO 104+00
2128	402	INT# 2128: FREBIS AVE. AT LOCKBOURNE RD.	LOCKBOURNE RD.	STA. 265+50 TO 276+50
2129	397	INT# 2129: LOCKBOURNE RD. AT SR-104 WB RAMPS	LOCKBOURNE RD.	STA. 195+50 TO 206+50
2130	399	INT# 2130: LOCKBOURNE RD. AT MARION RD.	LOCKBOURNE RD.	STA. 223+00 TO 232+50
2131	398	INT# 2131: LOCKBOURNE RD. AT REFUGEE RD.	LOCKBOURNE RD.	STA. 206+50 TO 223+00
2132	397	INT# 2132: LOCKBOURNE RD. AT SR-104 EB RAMPS	LOCKBOURNE RD.	STA. 195+50 TO 206+50
2133	408	INT# 2133: FAIRWOOD AVE. AT FREBIS AVE.	FREBIS AVE.	STA. 66+00 TO 82+00
2135	414	INT# 2135: FAIRWOOD AVE. AT REFUGEE RD.	REFUGEE RD.	STA. 12+00 TO 29+00
2137	437	INT# 2137: ALUM CREEK DR. AT FREBIS AVE.	ALUM CREEK DR.	STA. 242+00 TO 253+00
2138	432	INT# 2138: ALUM CREEK DR. AT REFUGEE RD.	ALUM CREEK DR.	STA. 193+00 TO 202+00
2145	448	INT# 2145: JAMES RD. AT SCOTTWOOD RD.	JAMES RD.	STA. 135+00 TO 145+00
2146	447	INT# 2146: JAMES RD. AT LANGFIELD RD.	JAMES RD.	STA. 124+00 TO 135+00
2160	493	INT# 2160: HAMILTON RD. AT REFUGEE RD.	REFUGEE RD.	STA. 950+00 TO 960+00
2167	355	INT# 2167: LIVINGSTON AVE. AT NOE-BIXBY RD./WOODCREST DR.	LIVINGSTON AVE.	STA. 1403+50 TO 1414+50
2168	356	INT# 2168: LIVINGSTON AVE. AT LONSDALE RD.	LIVINGSTON AVE.	STA. 1414+50 TO 1425+50
2169	358	INT# 2169: BAIRSFORD DR. AT LIVINGSTON AVE.	LIVINGSTON AVE.	STA. 1435+00 TO 1446+00
2170	359	INT# 2170: LIVINGSTON AVE. AT McNAUGHTEN RD.	LIVINGSTON AVE.	STA. 1446+00 TO 1457+00
2171	475	INT# 2171: BRICE RD. AT I-70 WB RAMPS	BRICE RD.	STA. 382+00 TO 389+50
2172	471	INT# 2172: BRICE RD. AT SCARBOROUGH BLVD. / TUSSING RD.	BRICE RD.	STA. 358+00 TO 369+00
2173	470	INT# 2173: BRICE RD. AT CHANTRY DR.	BRICE RD.	STA. 348+00 TO 358+00
2174	487	INT# 2174: NOE-BIXBY RD. AT REFUGEE RD.	NOE-BIXBY RD.	STA. 107+00 TO 118+00

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CIP: 540007–100005
PID NUMBER: 14522

INDEX LIST BY INTERSECTION NUMBER
FOR PLAN SHEETS SET 1

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

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911

J:\Jobs\50806\TECHPROD\Sheets\Index\ST_CTSS_001_Index-List-placeholder.dwg – INDEX LIST 1 OF 2 (VOL I) layout ~ last saved by: skoganti 12/16/2014 11:42am ~ printed 04/28/2017 04:21pm

INT #	SHEET #	INTERSECTION NAME	CORRIDOR	STATION
2175	491	INT# 2175: DENMARK RD. AT REFUGEE RD.	REFUGEE RD.	STA. 23+50 TO 34+50
2181	451	INT# 2181: ASTOR AVE. AT JAMES RD.	JAMES RD.	STA. 168+85 TO 186+50
2182	422	INT# 2182: HIGH ST. AT RATHMELL RD.	RATHMELL RD.	STA. 0+00 TO 9+00
2185	472	INT# 2185: CONSUMER SQ. AT TUSSING RD.	TUSSING RD.	STA. 1+25 TO 13+00
2186	366	INT# 2186: OBETZ RD. AT PARSONS AVE.	PARSONS AVE.	STA. 175+00 TO 191+68
2188	468	INT# 2188: BRICE RD. AT GENDER RD.	GENDER RD.	STA. 337+00 TO 348+00
2190	464	INT# 2190: GENDER RD. AT REFUGEE RD.	GENDER RD.	STA. 284+00 TO 294+00
2191	488	INT# 2191: CARBONDALE DR. AT NOE-BIXBY RD.	NOE-BIXBY RD.	STA. 118+00 TO 122+00
2193	445	INT# 2193: I-70 EB RAMPS AT JAMES RD.	JAMES RD.	STA. 103+00 TO 113+00
2194	494	INT# 2194: HAMILTON RD. AT WINCHESTER PIKE.	HAMILTON RD.	N/A
2195	441	INT# 2195: ALUM CREEK DR. AT ALUM INDUSTRIAL DR.	ALUM CREEK DR.	STA. 275+00 TO 286+00
2196	438	INT# 2196: ALUM CREEK DR. AT INTEGRITY DR N.	ALUM CREEK DR.	STA. 253+00 TO 264+00
2197	433	INT# 2197: REFUGEE RD. AT SR-104 WB RAMPS	REFUGEE RD.	STA. 85+00 TO 95+25
2198	467	INT# 2198: CENTENNIAL DR. AT GENDER RD.	GENDER RD.	STA. 326+00 TO 337+00
2201	478	INT# 2201: BRICE RD. AT HOME DEPOT	BRICE RD.	STA. 389+50 TO 399+00
2202	507	INT# 2202: BRICE RD. AT CHATTERTON RD./ REFUGEE RD.	CHATTERTON RD./ REFUGEE RD.	STA. 1085+00 TO 1096+00
2204	431	INT# 2204: ALUM CREEK DR. AT PERFORMANCE PKWY.	ALUM CREEK DR.	STA. 182+00 TO 193+00
2208	462	INT# 2208: GENDER RD. AT UPPERRIDGE DR.	GENDER RD.	STA. 271+00 TO 284+00
2210	474	INT# 2210: BRICE RD. AT I-70 EB RAMPS	BRICE RD.	STA. 369+00 TO 377+50
2213	461	INT# 2213: ABBIE TRAILS DR. AT GENDER RD.	GENDER RD.	STA. 257+00 TO 271+00
2214	459	INT# 2214: GENDER RD. AT SHANNON RD.	GENDER RD.	STA. 224+00 TO 235+00
2217	495	INT# 2217: REFUGEE RD. AT TENNYSON BLVD.	REFUGEE RD.	STA. 960+00 TO 972+00
4128	223	INT# 4128: GRANDVIEW AVE. AT McKINLEY AVE.	McKINLEY AVE.	STA. 0+50 TO 10+50
4129	228	INT# 4129: GRANDVIEW AVE. AT I-670 WB RAMPS / WATERMARK DR.	GRANDVIEW AVE.	STA. 21+00 TO 31+50
4130	227	INT# 4130: GRANDVIEW AVE. AT I-670 EB RAMPS	GRANDVIEW AVE.	STA. 10+00 TO 21+00
4131	233	INT# 4131: DUBLIN RD. AT URLIN AVE.	DUBLIN RD.	STA. 54+00 TO 65+00
4132	230	INT# 4132: DUBLIN RD. AT STELLA CT.	DUBLIN RD.	STA. 5+00 TO 21+00
4133	221	INT# 4133: CENTRAL AVE. AT McKINLEY AVE.	CENTRAL AVE.	STA. 66+50 TO 76+24
4134	162	INT# 4134: GREAT WESTERN SHOPPING CENTER / SOLDANO BLVD. AT WILSON RD.	WILSON RD.	STA. 1+00 TO 12+00
4135	163	INT# 4135: VALLEYVIEW DR. AT WILSON RD.	WILSON RD.	STA. 29+00 TO 40+00
4136	164	INT# 4136: FISHER RD. AT WILSON RD.	WILSON RD.	STA. 40+00 TO 51+00
4137	167	INT# 4137: I-70 EB RAMPS AT WILSON RD.	WILSON RD.	STA. 71+00 TO 82+00
4138	168	INT# 4138: I-70 WB RAMPS AT WILSON RD.	WILSON RD.	STA. 82+00 TO 93+00
4143	180	INT# 4143: McKINLEY AVE. AT TRABUE RD.	TRABUE RD.	STA. 181+00 TO 186+50
4232	231	INT# 4232: DUBLIN RD. AT I-670 EB RAMPS	DUBLIN RD.	STA. 21+00 TO 32+00
4236	171	INT# 4236: TRABUE RD. AT WILSON RD.	WILSON RD.	STA. 126+00 TO 135+00
4237	169	INT# 4237: TWIN CREEKS DR. AT WILSON RD.	WILSON RD.	STA. 93+00 TO 104+00
4250	190	INT# 4250: HAGUE AVE. AT I-70 WB RAMPS	HAGUE AVE.	STA. 1077+00 TO 1080+50
6200	234	INT# 6200: DUBLIN RD. AT GRANDVIEW AVE.	DUBLIN RD.	STA. 65+00 TO 76+00
6710	185	INT# 6710: HAGUE AVE. AT VALLEYVIEW DR.	HAGUE AVE.	STA. 1017+50 TO 1032+00
SIG4025	158	INT# SIG4025: BRIGGS RD. AT DEMOREST RD.	DEMOREST RD.	STA. 102+00 TO 113+00
SIG4030	213	INT# SIG4030: BROWN RD./HARDY PKWY. ST. AT FRANK RD.	FRANK RD.	STA. 232+00 TO 243+00
SIG4035	214	INT# SIG4035: BROWN RD. AT HOPKINS AVE.	BROWN RD.	N/A
SIG4095	512	INT# SIG4095: CAIRO RD. AT DEMPSEY RD.	DEMPSEY RD.	STA. 42+00 TO 51+00
SIG4120	188	INT# SIG4120: FISHER RD. AT HAGUE AVE.	HAGUE AVE.	STA. 1054+00 TO 1066+00
SIG4130	211	INT# SIG4130: FRANK RD. AT GANTZ RD.	FRANK RD.	STA. 199+00 TO 210+00
SIG4150	237	INT# SIG4150: GREENLAWN AVE. AT HARMON AVE.	GREENLAWN AVE.	STA. 8+00 TO 18+00
SIG4160	191	INT# SIG4160: EL PASO DR. AT HAGUE AVE.	HAGUE AVE.	STA. 1080+50 TO 1088+00
SIG4165	177	INT# SIG4165: HAGUE AVE. AT TRABUE RD.	TRABUE RD.	STA. 145+50 TO 162+50
SIG4220	429	INT# SIG4220: LOCKBOURNE RD. AT RATHMELL RD.	RATHMELL RD.	STA. 84+00 TO 98+00
SIG4240	481	INT# SIG4240: HARBOR BLVD. AT NOE-BIXBY RD.	NOE-BIXBY RD.	STA. 26+00 TO 37+00
SIG4245	500	INT# SIG4245: CHATTERTON RD. AT NOE-BIXBY RD.	CHATTERTON RD.	N/A
SIG4255	425	INT# SIG4255: PARSONS AVE. AT RATHMELL RD.	RATHMELL RD.	STA. 40+00 TO 51+00
SIG4439	524	INT# SIG4439: SUNBURY RD. AT VALLEY QUAIL BLVD. SOUTH	SUNBURY RD.	STA. 33+50 TO 47+00
SIG4670	514	INT# SIG4670: DEMPSEY RD. AT HEMPSTEAD RD.	DEMPSEY RD.	STA. 72+00 TO 87+50
SIG4815	526	INT# SIG4815: TAYLOR RD. AT TAYLOR STATION RD.	TAYLOR RD.	STA. 6+00 TO 17+00
SIG4875	529	INT# SIG4875: REYNOLDSBURG - NEW ALBANY RD. AT TAYLOR RD.	TAYLOR RD.	STA. 61+00 TO 76+23
SIG4825	483	INT# SIG4825: NOE-BIXBY RD. AT SEDALIA DR./CROSSCREEK DR.	NOE-BIXBY RD.	STA. 56+00 TO 64+00
SIG4895	173	INT# SIG4895: TRABUE RD. AT TRABUE WOODS BLVD. / WESTBELT DR.	TRABUE RD.	STA. 70+25 TO 81+00

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CIP: 540007–100005
PID NUMBER: 14522

INDEX LIST BY INTERSECTION NUMBER
FOR PLAN SHEETS SET 2 OF 2

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

2953-E

FINAL SUBMITTAL SHEET #	ALTERNATE SHEET #	UTILITY CROSSING ID#	STATION	UTILITY TYPE/SIZE	TOP OF EXISTING UTILITY	EXISTING GROUND ELEVATION	BOTTOM OF PROPOSED ELEVATION
77		1	538+22, 49' LT	TRAFFIC CONDUIT	-	-	-
79	595	1	561+32, 77' LT	POWER	-	-	-
79	595	2	561+79, 86' LT	42" STORM DRAIN	703.0 FG	713.8 FG	710.8
79	595	3	562+35, 78' LT	POWER	-	-	-
87	557	1	632+91, 41' LT	12" STORM DRAIN (ABAN)	711.4 S	719.0 FG	716.0
87	557	2	632+90, 43' LT	12" STORM DRAIN	717.0 S	719.0 FG	714.7 *(-)
87	557	3	632+80, 53' LT	TRAFFIC CONDUIT	-	-	-
87	554	4	632+88, 61' LT	TRAFFIC CONDUIT	-	-	-
87	557	5	632+84, 67' LT	TRAFFIC CONDUIT	-	-	-
87	557	6	632+80, 86' LT	TRAFFIC CONDUIT	-	-	-
87	557	7	631+78, 43' LT	GAS SERVICE	-	-	-
87	557	8	631+55, 43' LT	WATER SERVICE	-	-	-
87	557	9	631+20, 43' LT	TELECOMMUNICATIONS	-	-	-
148		1	184+03, 29' LT	TRAFFIC CONDUIT	-	-	-
148		2	184+05, 27' LT	42" STORM DRAIN	699.0 S	705.0 FG	702.0
148		3	184+10, 22' LT	LIGHTING	-	-	-
148		4	184+28, 2' LT	20" WATER	700.2 S	704.4 FG	701.4
148		5	184+44, 13' RT	4" GAS (ABAN)	702.2 S	702.9 FG	699.9
148		6	186+06, 46' RT	10" GAS (ABAN)	702.7 S	703.6 FG	700.6
148		7	186+19, 60' RT	12" SANITARY	701.0 S	705.2 FG	702.2
148		8	186+39, 89' RT	15" SANITARY	695.3 S	705.0 FG	702.0
148		9	186+46, 101' RT	12" GAS (ABAN)	-	-	-
148		10	186+49, 106' RT	8" SANITARY	697.6 S	705.0 FG	702.0
150		1	3+99, 29' LT	12" GAS	-	-	-
150		2	3+93, 27' LT	12" GAS	-	-	-
150		3	3+69, 31' LT	12" GAS	-	-	-
150		4	3+38, 29' LT	10" GAS (ABAN)	-	-	-
150		5	3+02, 23' RT	LIGHTING	-	-	-
150		6	2+59, 26' RT	10" GAS (ABAN)	701.9 S	704.2 FG	699.9 *(-)
150		7	2+09, 26 RT	8" WATER (ABAN)	700.1 S	703.6 FG	701.1 *(+)
150		8	0+83, 32' RT	15" STORM DRAIN	700.1 S	703.5 FG	701.1 *(+)
150		9	0+33, 40' RT	ELECTRIC	-	-	-
167	548	1	79+13, 57' LT	24" STORM DRAIN	839.5 S	841.6 FG	840.6 *(+)
167	548	2	79+13, 56' LT	12" WATER	835.0 S	841.8 FG	838.8
167	548	3	79+13, 55' LT	POWER	-	-	-
167	548	4	79+08, 46' LT	LIGHTING	-	-	-
167	548	5	78+80, 49' LT	ELECTRIC	-	-	-
167	548	6	79+10, 46' LT	LIGHTING	-	-	-
167	548	7	78+92, 39' LT	POWER	-	-	-
167	548	8	78+92, 39' LT	LIGHTING	-	-	-
167	548	9	78+64, 39' RT	LIGHTING	-	-	-
167	548	10	78+61, 46' RT	TELECOMMUNICATIONS	-	-	-
167	548	11	78+57, 48' RT	TELECOMMUNICATIONS	-	-	-
167	548	12	77+15, 63' LT	12" WATER	838.0 S	842.0 S	840.0 *(+)
167	548	13	77+15, 56' LT	24" STORM DRAIN	840.0 S	842.0 S	841.0 *(+)
167	548	14	77+15, 49' LT	LIGHTING	-	-	-
167	548	15	77+15, 48' LT	TRAFFIC CONDUIT	-	-	-
173		1	74+88, 31' LT	FIBER OPTIC CABLE	-	-	-
173		2	76+26, 22' LT	6" WATER	877.0 FV-A	883.1 FV-A	880.1
173		3	77+55, 27' LT	12" WATER	874.9 S	886.0 FG	883.0
173		4	77+62, 35' LT	FIBER OPTIC CABLE	-	-	-
174		1	81+66, 21' LT	8" PETROLEUM PL	875.0 FG	897.5 FG	894.5
174	551	2	84+94, 84' LT	16" WATER	871.8 S	878.1 FG	875.1
174	551	3	84+92, 104' LT	FIBER OPTIC CABLE	-	-	-
174		4	90+84, 15' LT	10" PETROLEUM PL	864.5 FV-A	876.8 FV-A	873.8
174		5	93+13, 21' LT	8" WATER	863.0 S	870.0 FG	867.0
174		6	93+24, 21' LT	TELECOMMUNICATIONS	-	-	-
188		1	1065+83, 43' RT	GAS SERVICE	-	-	-
189		1	1066+59, 44' RT	LIGHTING	-	-	-
189		2	1066+85, 44' RT	16" GAS	787.3 FV-A	794.9 FV-A	791.9
189		3	1067+54, 36' RT	LIGHTING	-	-	-
189		4	1067+84, 36' RT	LIGHTING	-	-	-
189		5	1068+71, 35' RT	LIGHTING	-	-	-
189		6	1068+75, 30' RT	16" GAS	787.0 FV-A	794.6 FV-A	791.6
189		7	1070+78, 26' RT	12" STORM DRAIN	791.6 FV-B	794.2 FV-B	792.5 *(+)
189		8	1071+27, 30' RT	16" GAS	788.2 FV-A	794.4 FV-A	791.4
189		9	1071+30, 34' RT	12" STORM DRAIN	791.5 FV-B	794.6 FV-B	792.5 *(+)
189		10	1071+34, 40' RT	LIGHTING	-	-	-
189		11	1071+44, 40' RT	LIGHTING	-	-	-
189		12	1071+48, 34' RT	12" STORM DRAIN	791.6 FV-B	794.6 FV-B	792.6 *(+)
189		13	1071+51, 30' RT	16" GAS	788.5 FV-A	794.5 FV-A	791.5
189		14	1072+00, 1' LT	12" SANITARY	787.2 FV-B	795.6 FV-B	792.6
189		15	1072+04, 1' LT	24" STORM DRAIN	792.8 FV-B	795.6 FV-B	793.8 *(+)
189		16	1072+16, 1' LT	20" WATER	788.2 S	795.7 FV-B	792.7
189		17	1073+44, 2' LT	LIGHTING	-	-	-

FINAL SUBMITTAL SHEET #	ALTERNATE SHEET #	UTILITY CROSSING ID#	STATION	UTILITY TYPE/SIZE	TOP OF EXISTING UTILITY	EXISTING GROUND ELEVATION	BOTTOM OF PROPOSED ELEVATION
189		18	1075+37, 3' LT	LIGHTING	-	-	-
189		19	1076+03, 2' LT	12" STORM DRAIN	793.5 FV-B	799.2 FV-B	796.2
190		1	1078+74, 42' RT	LIGHTING	-	-	-
190		2	1078+76, 44' RT	20" WATER	799.0 FV-A	804.1 FV-A	802.1 *(+)
190		3	1078+78, 47' RT	TRAFFIC CONDUIT	-	-	-
190		4	1078+80, 50' RT	18" STORM DRAIN	797.4 FV-B	804.2 FV-B	801.2
190		5	1078+82, 52' RT	16" GAS	-	-	-
194		1	68+80, 74' RT	LIGHTING	-	-	-
194		2	69+16, 75' RT	LIGHTING	-	-	-
194		3	68+77, 68' RT	LIGHTING	-	-	-
194		4	69+23, 63' RT	LIGHTING	-	-	-
194		5	70+35, 44' RT	LIGHTING	-	-	-
194		6	70+35, 10' LT	10" GAS	-	-	-
194		7	70+35, 55' LT	LIGHTING	-	-	-
194		8	70+71, 82' RT	LIGHTING	-	-	-
194		9	73+51, 78' RT	2" GAS	-	-	-
194		10	75+10, 71' RT	2" GAS	-	-	-
227	554	1	18+82, 43' RT	TRAFFIC CONDUIT	-	-	-
227	554	2	18+83, 37' RT	LIGHTING	-	-	-
227	554	3	18+77, 38' LT	TRAFFIC CONDUIT	-	-	-
227	554	4	18+77, 41' LT	LIGHTING	-	-	-
324		1	1152+24, 48' LT	18" STORM DRAIN	754.5 S	757.0 FG	755.5 *(+)
324		2	1152+67, 58' LT	TRAFFIC CONDUIT	-	-	-
346	566	4	90+94, 114' LT	LIGHTING	-	-	-
475		1	382+64, 60' RT	30" STORM DRAIN	787.0 S	813.4 FG	810.4
493		1	951+05, 112' LT	WATER SERVICE	749.9 FV-A	754.9 FV-A	751.9
503		1	1046+50, 43' LT	8" WATER	762.5 S	766.0 FG	763.5 *(+)
504		1	1060+90, 34' LT	TELECOMMUNICATIONS	-	-	-
504		2	1060+96, 34' LT	TELECOMMUNICATIONS	-	-	-
504		3	1062+89, 33' LT	18" SANITARY	751.7 S	770.0 FG	767.0
504		4	1063+73, 32' LT	TELECOMMUNICATIONS	-	-	-
504		5	1063+74, 32' LT	TELECOMMUNICATIONS	-	-	-
504		6	1067+28, 33' LT	8" WATER	762.5 FV-A	769.0 FV-A	766.0
504		7	1067+71, 37' LT	12" STORM DRAIN	767.4 FV-B	769.0 S	765.1 *(-)
504		8	1072+87, 32' LT	WATER SERVICE	-	772.0 FV-B	769.0
504		9	1072+89, 32' LT	WATER SERVICE	-	772.0 FV-B	769.0
505		1	1077+89, 29' LT	WATER SERVICE	-	774.2 FV-B	771.2
505		2	1084+24, 41' LT	6" STORM DRAIN	UND	771.4 FV-B	768.4
507		1	1085+43, 40' LT	36" SANITARY	755.5 FV-B	774.2 FV-B	771.2
507		2	1085+53, 43' LT	6" STORM DRAIN	UND	773.5 FV-B	770.5
508		1	1096+18, 50' LT	8" WATER	780.9 S	784.2 FG	782.1 *(+)
510		1	30+81, 25' RT	GAS	-	-	-
510		2	16+07, 49' LT	21" STORM DRAIN	812.8 S	821.4 FG	818.4
510		3	16+47, 49' LT	LIGHTING	-	-	-
510		4	18+77, 52' LT	48" STORM DRAIN	814.5 S	822.4 FG	819.4
510		5	19+10, 62' LT	TELECOMMUNICATIONS	-	-	-
510		6	19+56, 67' LT	ELECTRIC	-	-	-
510		7	19+73, 67' LT	TELECOMMUNICATIONS	-	-	-
510		8	19+81, 67' LT	LIGHTING	-	-	-
510		9	20+24, 68' LT	TELECOMMUNICATIONS	-	-	-
524		1	33+70, 96' RT	12" STORM DRAIN	-	-	-
536		1	166+98, 11' LT	30" SANITARY	829.0 S	848.7 FG	845.7
541		1	221+98, 5' LT	24" SANITARY	855.6 S	888.9 FG	885.9
548	167	1	79+13, 57' LT	24" STORM DRAIN	839.5 S	841.6 FG	840.6 *(+)
548	167	2	79+13, 56' LT	12" WATER	835.0 S	841.8 FG	838.8
548	167	3	79+13, 55' LT	POWER	-	-	-
548	167	4	79+08, 46' LT	LIGHTING	-	-	-
548	167	5	78+80, 49' LT	ELECTRIC	-	-	-
548	167	6	79+10, 46' LT	LIGHTING	-	-	-
548	167	7	78+92, 39' LT	POWER	-	-	-
548	167	8	78+92, 39' LT	LIGHTING	-	-	-
548	167	9	78+64, 39' RT	LIGHTING	-	-	-
548	167	10	78+61, 46' RT	TELECOMMUNICATIONS	-	-	-
548	167	11	78+57, 48' RT	TELECOMMUNICATIONS	-	-	-
548	167	12	77+15, 63' LT	12" WATER	838.0 S	842.0 S	840.0 *(+)
548	167	13	77+15, 56' LT	24" STORM DRAIN	840.0 S	842.0 S	841.0 *(+)
548	167	14	77+15, 49' LT	LIGHTING	-	-	-
548	167	15	77+15, 48' LT	TRAFFIC CONDUIT	-	-	-
548	167	16	425+35, 142' RT	TRAFFIC CONDUIT	-	-	-
551	174	2	492+35, 143' RT	16" WATER	871.8 S	878.1 FG	875.1
551	174	3	492+55, 137' RT	FIBER OPTIC CABLE	-	-	-
551		4	499+48, 82' RT	15" STORM DRAIN	870.5 S	875.5 FG	872.5
554	227	1	18+82, 43' RT	TRAFFIC CONDUIT	-	-	-
554	227	2	18+82, 37' RT	LIGHTING	-	-	-
554	227	3	18+78, 38' LT	TRAFFIC CONDUIT	-	-	-

FG: SURFACE ELEVATION DETERMINED BY FRANKLIN COUNTY GIS, ACCURACY OF ±0.5'
FV–A: FIELD VERIFIED ELEVATION, LEVEL A SUE
FV–B: FIELD VERIFIED ELEVATION, LEVEL B SUE
S: ELEVATION SCALED FROM PLANS
C: ELEVATION CALCULATED USING INVERT
UND: ELEVATIONS COULD NOT BE DETERMINED FROM RECORD PLANS AND WILL BE SHOWN AFTER THE FIELD SUE INVESTIGATION
–: VARYING ELEVATIONS. DEPTHS ARE UNKNOWN
*(+): PROPOSED CONDUIT HAS BEEN ADJUSTED ABOVE THE TOP OF EXISTING UTILITY TO MEET MINIMUM VERTICAL CLEARANCE REQUIREMENT OF 1.0'
*(–): PROPOSED CONDUIT HAS BEEN ADJUSTED BELOW THE BOTTOM OF EXISTING UTILITY TO MEET MINIMUM VERTICAL CLEARANCE REQUIREMENT OF 1.0'

NOTE: IF THE VERTICAL SEPARATION IS LESS THAN ONE FOOT (1') OR IF THE ELEVATION IS NOT SHOWN OR IS LISTED AS UND, THE CONTRACTOR SHALL EXPOSE THE EXISTING UTILITY AND ADJUST THE PROPOSED CONDUIT DEPTH TO 18"–60" TO MEET VERTICAL CLEARANCE REQUIREMENTS BY DIRECTION OF THE CITY OF COLUMBUS REPRESENTATIVE. HAND DIGGING WITHIN 1 FOOT OF UTILITY AT DIRECTION OF ENGINEER OR AT DISCRETION OF CONTRACTOR IS CONSIDERED INCIDENTAL TO TRENCHING COST.

2953-E

CIP: 540007–100005
PID NUMBER: 14522

UTILITY CROSSING INDEX
1 OF 2

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

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FINAL SUBMITTAL SHEET #	ALTERNATE SHEET #	UTILITY CROSSING ID#	STATION	UTILITY TYPE/SIZE	TOP OF EXISTING UTILITY	EXISTING GROUND ELEVATION	BOTTOM OF PROPOSED ELEVATION	VERTICAL SEPARTION FEET	UTILITY PLAN SHEET
554	227	4	18+78, 41' LT	LIGHTING	-	-	-	-	
557	87	1	632+91, 41' LT	12" STORM DRAIN (ABAN)	711.4 S	719.0 FG	716.0	4.6	FRA-3-13.93 (FRA-315-0.93)
557	87	2	632+90, 43' LT	12" STORM DRAIN	717.0 S	719.0 FG	714.7 *(-)	-2.3	FRA-315-0.93
557	87	3	632+80, 53' LT	TRAFFIC CONDUIT	-	-	-	-	
557	87	4	632+88, 61' LT	TRAFFIC CONDUIT	-	-	-	-	
557	87	5	632+84, 67' LT	TRAFFIC CONDUIT	-	-	-	-	
557	87	6	632+80, 86' LT	TRAFFIC CONDUIT	-	-	-	-	
557	87	7	631+78, 43' LT	GAS SERVICE	-	-	-	-	
557	87	8	631+55, 43' LT	WATER SERVICE	-	-	-	-	
557	87	9	631+20, 43' LT	TELECOMMUNICATIONS	-	-	-	-	
566		1	89+92, 89' LT	LIGHTING	-	-	-	-	
566		2	90+21, 88' LT	LIGHTING	-	-	-	-	
566		3	90+35, 88' LT	15" STORM DRAIN	771.2 S	775.5 FG	772.5	1.3	FRA-40-18.70
566	346	4	90+94, 114' LT	LIGHTING	-	-	-	-	
569		1	2355+30, 16' LT	15" STORM DRAIN	758.0 S	759.6 FG	755.4 *(-)	-2.6	FRA-270-18.15S
573		1	2342+52, 17' LT	168" STORM DRAIN	752.0 S	755.0 FG	753.0 *(+)	1.0	FRA-270-18.15S
573		2	2341+79, 17' LT	24" SANITARY	732.0 S	754.3 FG	751.3	19.3	FRA-270-18.15S
573		3	2334+28, 16' LT	15" STORM DRAIN	751.0 S	752.3 FG	748.4 *(-)	-2.6	FRA-270-18.15S
574		1	2332+27, 15' LT	15" STORM DRAIN	751.0 S	753.7 FG	752.0 *(+)	1.0	FRA-270-18.15S
575		1	2321+58, 16' LT	15" STORM DRAIN	754.0 S	756.2 FG	751.4 *(-)	-2.6	FRA-270-18.15S
575		2	2313+64, 15' LT	90" SANITARY	736.0 S	762.2 FG	759.2	23.2	RP02655
576		3	2301+63, 20' LT	12" SANITARY (ABAN)	761.2 S	777.3 FG	774.3	13.1	RP02059
576		2	2301+62, 21' LT	12" WATER	753.0 S	777.3 FG	774.3	21.3	WL1962-48_004
576		1	2301+33, 21' LT	10" SANITARY	744.6 S	778.2 FG	775.2	30.6	RP02139
582		1	1220+48, 102' RT	72" STORM DRAIN	778.5 S	787.0 FG	784.0	5.5	FRA-70-21.29
582		2	1221+67, 101' RT	8" WATER	777.1 S	787.3 FG	784.3	7.2	WL1966-31_001
582		3	1221+85, 101' RT	10" SANITARY	775.5 S	787.3 FG	784.3	8.8	RP02800
582		4	1222+28, 101' RT	15" STORM DRAIN	784.5 S	787.3 FG	785.5 *(+)	1.0	FRA-70-21.29
583		1	1235+33, 97' RT	15" STORM DRAIN	788.2 S	788.9 FG	785.9	-2.3	FRA-70-21.29
583		2	1238+29, 97' RT	84" STORM DRAIN	790.0 S	792.7 FG	791.0 *(+)	1.0	FRA-70-21.29
583		3	1242+89, 100' RT	12" WATER	784.3 S	793.0 FG	790.0	5.7	CTP0831_004
583		4	1251+27, 109' RT	15" STORM DRAIN	790.5 S	793.8 FG	791.5 *(+)	1.0	FRA-70-21.28
585		1	1257+38, 93' RT	15" STORM DRAIN	787.9 S	793.7 FG	790.7	2.8	FRA-70-21.29
585		2	1259+29, 93' RT	TRAFFIC CONDUIT	-	-	-	-	
585		3	1260+52, 94' RT	12" WATER	792.6 S	794.3 FG	790.3 *(-)	-2.3	FRA-070-21-29
585		4	1261+75, 94' RT	30" STORM DRAIN	793.9 S	797.5 FG	794.9 *(+)	1.0	FRA-70-21.29
585		5	1264+45, 16' RT	TRAFFIC CONDUIT	-	-	-	-	
585		6	1265+47, 90' LT	15" STORM DRAIN	-	-	-	-	FRA-70-21.29
589		1	1269+31, 3' RT	TRAFFIC CONDUIT	-	-	-	-	
589		2	1273+47, 3' RT	21" SANITARY	783.6 S	804.0 FG	801.0	17.4	RP04226
589		3	1276+35, 2' RT	15" STORM DRAIN	804.7 S	806.0 FG	802.0 *(-)	-2.7	FRA-70-21.29
589		4	1282+75, 1' RT	108" STORM DRAIN	807.0 S	809.9 FG	808.0	1.0	FRA-70-21.29
592		1	23+42, 227' LT	LIGHTING	-	-	-	-	
592		2	23+26, 67' LT	LIGHTING	-	-	-	-	
592		3	26+69, 68' LT	LIGHTING	-	-	-	-	
592		4	26+78, 61' LT	18" SANITARY	UND	823.5 FG	820.5	-	WV09
592		5	26+81, 58' LT	42" STORM DRAIN	819.6 S	823.5 FG	820.6 *(+)	1.0	E02733_137
592		6	27+40, 45' LT	TELECOMMUNICATIONS	-	-	-	-	
592		7	27+72, 70' RT	FIBER OPTIC CABLE	-	-	-	-	
592		8	27+72, 86' RT	15" STORM DRAIN	821.2 S	826.0 FG	823.0	1.8	E02733_127
595	79	1	561+32, 77' LT	POWER	-	-	-	-	
595	79	2	561+79, 86' LT	42" STORM DRAIN	703.0 FG	713.8 FG	710.8	7.8	FRA-70-10.36S
595	79	3	562+35, 78' LT	POWER	-	-	-	-	

FG: SURFACE ELEVATION DETERMINED BY FRANKLIN COUNTY GIS, ACCURACY OF ±0.5'
FV-A: FIELD VERIFIED ELEVATION, LEVEL A SUE
FV-B: FIELD VERIFIED ELEVATION, LEVEL B SUE
S: ELEVATION SCALED FROM PLANS
C: ELEVATION CALCULATED USING INVERT
UND: ELEVATIONS COULD NOT BE DETERMINED FROM RECORD PLANS AND WILL BE SHOWN AFTER THE FIELD SUE INVESTIGATION
-: VARYING ELEVATIONS. DEPTHS ARE UNKNOWN
*(+): PROPOSED CONDUIT HAS BEEN ADJUSTED ABOVE THE TOP OF EXISTING UTILITY TO MEET MINIMUM VERTICAL CLEARANCE REQUIREMENT OF 1.0'
*(-): PROPOSED CONDUIT HAS BEEN ADJUSTED BELOW THE BOTTOM OF EXISTING UTILITY TO MEET MINIMUM VERTICAL CLEARANCE REQUIREMENT OF 1.0'

NOTE: IF THE VERTICAL SEPARATION IS LESS THAN ONE FOOT (1') OR IF THE ELEVATION IS NOT SHOWN OR IS LISTED AS UND, THE CONTRACTOR SHALL EXPOSE THE EXISTING UTILITY AND ADJUST THE PROPOSED CONDUIT DEPTH TO 18"-60" TO MEET VERTICAL CLEARANCE REQUIREMENTS BY DIRECTION OF THE CITY OF COLUMBUS REPRESENTATIVE. HAND DIGGING WITHIN 1 FOOT OF UTILITY AT DIRECTION OF ENGINEER OR AT DISCRETION OF CONTRACTOR IS CONSIDERED INCIDENTAL TO TRENCHING COST.

2953-E

CIP: 540007-100005
PID NUMBER: 14522

UTILITY CROSSING INDEX
2 OF 2

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
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911

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R3-1
S1



R3-2
S2



CM-R023.02
S3



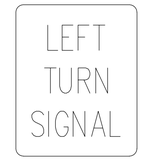
R3-3
S4



R3-9B
S5



S6



R10-10L
S7



R3-5L
S8



R3-5R
S9



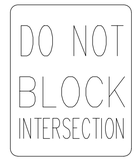
R10-12
S10



S10



S11



R10-7
S12



R5-1
S13



R6-2L
S14



R6-2R
S15



R6-7
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R6-6
S17



S18



R9-3a
S19



R3-5a
S20



R3-6R
S21



R3-6LU
S22



R3-17
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R10-5
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EXISTING OVERHEAD SIGNAGE SHOWN ON PLAN SHEETS

2953-E

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FEDERAL PROJECT NUMBER
E100(958)

CIP: 540007-100005
PID NUMBER: 14522

EXISTING OVERHEAD SIGNS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

PLAN SHEET DISCLAIMER

EVERY REASONABLE EFFORT HAS BEEN MADE TO ASSURE THE ACCURACY OF THESE PLANS AND ASSOCIATED DATA WITH THE CITY OF COLUMBUS, DEPARTMENT OF PUBLIC UTILITIES FACILITIES. THE CITY OF COLUMBUS, OHIO ASSUMES NO LIABILITY ARISING FROM THE ACCURACY OF THE DEPARTMENT OF PUBLIC UTILITIES FACILITIES DATA IN THESE PLANS OR FOR USE OF THIS DATA FOR PURPOSES NOT RELATED TO THE SUBJECT PROJECT. THIS DISCLAIMER APPLIES TO SHEETS 62–553 OF THIS PLAN SET.

IN AN EFFORT TO INCREASE THE CLARITY AND LEGIBILITY OF THE PLANS, EXISTING UNDERGROUND UTILITIES WILL NOT BE SHOWN UNLESS THERE IS PROPOSED WORK THAT WILL REQUIRE EXCAVATION OR ANY OTHER EARTH DISTURBING ACTIVITY. IF PROPOSED WORK WILL REQUIRE THIS TYPE OF ACTIVITY, EXISTING UNDERGROUND UTILITIES WILL BE PROPERLY INVESTIGATED AND REPRESENTED ON THE PLAN SHEET OF THE RESPECTIVE WORK LOCATION.

PRE–CONSTRUCTION CONFERENCE

UNLESS OTHERWISE PROVIDED FOR IN THE CONTRACT DOCUMENTS, NO WORK SHALL BE COMMENCED UNDER THIS CONTRACT UNTIL A PRECONSTRUCTION CONFERENCE HAS BEEN HELD.

AFTER THE CONTRACT IS FULLY EXECUTED, THE CITY WILL SEND PRECONSTRUCTION CONFERENCE NOTICES TO ALL PARTIES. IN GENERAL, FOURTEEN DAYS ARE REQUIRED TO NOTIFY ALL INTERESTED PARTIES OF A PRECONSTRUCTION CONFERENCE. THE CONTRACTOR SHALL TAKE DUE NOTE OF THIS REQUIREMENT AND AID IN THE TIMELY SCHEDULING OF THE PRECONSTRUCTION CONFERENCE TO AVOID UNNECESSARY DELAYS IN THE COMMENCEMENT OF THE WORK.

PERMITS

WHEN EXCAVATING WITHIN COLUMBUS PUBLIC RIGHT OF WAY LIMITS, THE CONTRACTOR SHALL OBTAIN AND EXCAVATION PERMIT FROM CITY OF COLUMBUS, DIVISION OF INFRASTRUCTURE MANAGEMENT – PERMIT OFFICE BETWEEN THE HOURS OF 7:30 AM AND 4:00 PM MONDAY THROUGH FRIDAY. PHONE (614) 645–7497; FAX: (614) 645–1876

EMAIL: COLSPERMITS@COLUMBUS.GOV

FOR WORK ON SHEETS 360–361 AND 475–479 THAT ARE WITHIN REYNOLDSBURG CITY LIMITS CONTACT, THE REYNOLDBURG BUILDING DEPT AT 614–322–6802.

UTILITIES

THE IDENTITY AND LOCATION OF EXISTING UNDERGROUND UTILITIES LOCATED IN AND AROUND THE CONSTRUCTION AREA HAVE BEEN SHOWN AND LABELED ON THE PLANS BY USING INFORMATION PROVIDED BY THE RESPECTIVE UTILITY OWNERS. THE CITY OF COLUMBUS OR THE CONSULTING ENGINEER WILL NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OR DEPTH OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE PLANS.

SUPPORT AND PROTECTION OF ALL UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COSTS FOR THE REPAIR AND RESTORATION OF EXISTING UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CITY OF COLUMBUS UTILITIES WILL ONLY LOCATE AND MARK MAIN LINE FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL SERVICE LATERALS AND LINES. COSTS ASSOCIATED WITH THE ABOVE WORK AND RESPONSIBILITIES SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS.

PRIOR TO EXCAVATION THE CONTRACTOR SHALL GIVE A 48–HOUR NOTICE TO THE OHIO UTILITIES PROTECTION SERVICE (OUPS) BY CALLING (800) 362–2764. A 48–HOUR NOTICE SHALL ALSO BE GIVEN TO THE OWNERS OF UNDERGROUND UTILITIES SHOWN ON THE PLANS WHO ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE.

LISTED BELOW ARE CITY OF COLUMBUS UTILITIES THAT HAVE FACILITIES LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT AND DO NOT SUBSCRIBE TO THE OHIO UTILITIES PROTECTION SERVICE.

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF TRAFFIC MANAGEMENT
TRAFFIC MAINTENANCE SHOP
1820 E 17TH AVE
COLUMBUS, OHIO 43219
(614)645–5967 – FAX, ATTN: LOCATOR
(614)645–7393 – PHONE FOR FOLLOW UP

CITY OF COLUMBUS
DEPARTMENT OF TECHNOLOGY
CITY HALL, 90 WEST BROAD STREET
ROOM 316
COLUMBUS, OHIO 43215
(614) 645–7756 – CONTRACTOR LINE
(614) 645–6627 – CABLE LOCATE FAX

CITY OF COLUMBUS
SUPPORT SERVICES DIVISION – COMMUNICATIONS
4211 GROVES ROAD
COLUMBUS, OHIO 43232
(614) 724–7047 – PHONE
(614) 645–6588 – FAX
(614) 724–4006 – RADIO ROOM

MARTIN E. WHITE
DISTRICT RIGHT OF WAY AGENT
BUCKEYE PIPELINE COMPANY, LP
940 BUCKEYE ROAD
LIMA, OHIO 45804
(419) 993–8008 – PHONE
(419) 236–7766 – CELL
(419) 224–3519 – FAX
MWHITE@BUCKEYE.COM

THE FOLLOWING CITY OF COLUMBUS, ODOT, FRANKLIN COUNTY, AND PRIVATE UTILITIES ARE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT AND SUBSCRIBE TO A REGISTERED UNDERGROUND PROTECTION SERVICE:

FAX ALL LOCATION REQUESTS (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION

FRANKLIN COUNTY
DEPARTMENT OF SANITARY ENGINEERING
280 EAST BROAD STREET, SUITE 201
COLUMBUS, OH 43215
(614) 525–3940 – PHONE
(614) 525–5210 – FAX

CITY OF COLUMBUS
DIVISION OF POWER
3500 INDIANOLA AV.
COLUMBUS, OHIO 43214
(614) 645–7627 – PHONE

CITY OF COLUMBUS
DIVISION OF WATER
910 DUBLIN ROAD
COLUMBUS, OHIO 43215
(614) 645–7788 – PHONE
(614) 645–0220 – FAX

ODOT

DISTRICT 6 MAINTENANCE OF TRAFFIC
400 E. WILLIAMS STREET
DELAWARE, OHIO 43015
(740) 833–8433 – PHONE
MOT ENGINEER – GARY FETHEROLF
(740) 833–8162 – PHONE
(740) 601–8817 – CELL
TRAFFIC ENGINEER – KRAIG SHREWSBERRY
(740) 833–8198 – PHONE

ROD SLONEKER
(CITY PROJECTS/DISTRIBUTION)
ENGINEERING LIAISON COORDINATOR
AMERICAN ELECTRIC POWER
850 TECH CENTER DRIVE
GAHANNA, OHIO 43230
(614) 883–6817 – PHONE
(614) 301–4977 – CELL
(614) 883–6868 – FAX
RISLONEKER@AEP.COM
AEP SOLUTION CENTER: 800–277–2177

TINA HAIRSTON
(TRANSMISSION)
TRANSMISSION LINE PROJECT ENGINEERING
AMERICAN ELECTRIC POWER
700 MORRISON ROAD
GAHANNA, OHIO 43230
(614) 552–1801 – PHONE
(614) 552–1818 – FAX
TLHAIRSTON@AEP.COM

CITY OF COLUMBUS
DIVISION OF SEWERAGE AND DRAINAGE
1250 FAIRWOOD AV.
COLUMBUS, OHIO 43206
(614) 645–7102 – PHONE
(614) 645–3242 – FAX

ED HUGHES
PROJECT MANAGER
C/O HLG ENGINEERING
AT&T LNS & CORE
5980–G WILCOX PLACE
DUBLIN, OHIO 43016
(614) 760–8320 – PHONE
(740) 815–5457 – CELL
EHUGHES@HLGENGINEERING.COM

ODOT
FREEWAY MANAGEMENT SYSTEM
1606 WEST BROAD ST.
COLUMBUS, OHIO 43223
PRIMARY: (614) 387–4113
SECONDARY: (614) 387–4099
(614) 887–4134 – FAX
CEN.ITS.LAB@DOT.STATE.OH.US

JAMES (JIM) SCOTT
LAND AGENT
COLUMBIA GAS TRANSMISSION LLC
301 MAPLE STREET
PO BOX 330
SUGAR GROVE, OHIO 43155
(740) 746–2234 – PHONE
(740) 746–2225 – FAX
(740) 304–4304 – CELL
JSCOTT@NISOURCE.COM

BILL VERHOFF
GENERAL MANAGER
COLUMBUS FIBERNET
1600 WALCUTT ROAD
COLUMBUS, OHIO 43228
(614) 850–4400 – PHONE
(614) 850–4419 – FAX
(614) 778–3820 – CELL
BAVERHOFF@COLUMBUSFIBER.NET

JAMES HIGHSMITH
MAINTENANCE ANALYST
FIBERTECH NETWORKS
140 ALLENS CREEK ROAD
ROCHESTER, NEW YORK 14618
(585) 697–5145 – PHONE
(585) 242–9807 – FAX
(585) 303–8554 – CELL
JHIGHSMITH@FIBERTECH.COM

MIKE BATH
PLANT MANAGER
TIME WARNER CABLE/INSIGHT
3770 EAST LIVINGSTON AVENUE
COLUMBUS, OHIO 43227
(614) 338–7061 – PHONE
(614) 332–2337 – CELL
(614) 501–9513 – FAX
BATH.M@INSIGHTCOM.COM

ERIC L. ALEXANDER
DIRECTOR, RETAIL FIELD
OPERATIONS
CITYNET
779 BROOKSEDGE BOULEVARD
WESTERVILLE, OH 43081
(614) 364–7825 – PHONE
(614) 989–9655 – CELL
(614) 827–7010 – FAX
ERIC.ALEXANDER@CITYNET.NET

FRANKLIN COUNTY ENGINEER'S
OFFICE
970 DUBLIN ROAD
COLUMBUS, OH 43215
(614) 525–4821 – PHONE

TOM ZIOMEK
MANAGER OSPE
AT&T (FKA SBC)
111 NORTH 4TH STREET
COLUMBUS, OHIO 43215
(614) 223–7162 – PHONE
(614) 223–5579 – FAX
(614) 329–2195 – CELL
TZ7315@ATT.COM
AT&T REPAIR SERVICE: 888–611–4466
DAMAGE PREVENTION: 866–632–6243

JOE THOMAS
FACILITIES ENGINEER
SPRINT COMMUNICATIONS CO., L.P.
11370 ENTERPRISE PK. DR.
SHARONVILLE, OHIO 45241
(513) 612–4204 – PHONE
(513) 612–4244 – FAX
(937) 209–9754 – CELL
JOSEPH.J.THOMAS@SPRINT.COM

AARON ROLL
DIRECTOR OF FIELD OPERATIONS
SUBURBAN NATURAL GAS
2626 LEWIS CENTER RD.
LEWIS CENTER, OHIO 43035
(740) 548–2450 – PHONE
(614) 419–1103 – CELL
(740) 548–2455 – FAX
AROLL@SNGCO.COM

KEN WULF
MANAGER FIELD OPERATIONS
LEVEL 3 COMMUNICATIONS
580 N. FOURTH ST., SUITE 100
COLUMBUS, OH 43215
(614) 441–0103 – PHONE
(720) 567–1042 – FAX
(614) 286–7393 – CELL
KEN.WULF@LEVEL3.COM

RAY MAURER
CONSTRUCTION SUPERVISOR
TIME WARNER COMMUNICATIONS
3760 INTERCHANGE ROAD
COLUMBUS, OHIO 43204
(614) 481–5262 – PHONE
(614) 255–6428 – FAX
(614) 640–6915 – PAGER
(614) 348–2979 – CELL
RAY.MAURER@TWCABLE.COM

DAVID WISNER
ADV. SENIOR RIGHT–OF–WAY SPECIALIST
MARATHON PIPE LINE LLC
539 S. MAIN STREET, ROOM 7642
FINDLAY, OHIO 45840
(419) 421–2211 – PHONE
(419) 348–2211 – CELL
(419) 421–3601 – FAX
DSWISNER@MARATHONPETROLEUM.COM

BILL CARPENTER
DATA CENTER DIRECTOR
BLUEMILE INC.
226 N. 5TH STREET
COLUMBUS, OHIO 43215
(614) 360–1751 – PHONE
(614) 746–2851 – CELL
BILL.CARPENTER@BLUEMILENETWORKS.COM

MIKE SUCHARSKI
LEADER FIELD ENGINEERING
COLUMBIA GAS OF OHIO
3350 JOHNNY APPLESEED CT.
COLUMBUS, OHIO 43231
(614) 818–2104 – PHONE
(614) 989–1327 – CELL
MSUCHARSKI@NISOURCE.COM
CUSTOMER SERVICE: 800–344–4077
DAMAGE PREVENTION: 866–632–6243

MARK WETZEL–SPELMAN PIPELINE HLD
9081 STATE ROUTE 250
STRASBURG, OHIO 44680

RON A. LEFFLER
OSP CONSTRUCTION MANAGER
TW TELECOM INC.
250 WEST OLD WILSON BRIDGE RD.
SUITE 130
WORTHINGTON, OHIO 43085
(614) 255–2126 – PHONE
(614) 774–3068 – CELL
RON.LEFFLER@TWTELECOM.COM

JAYTEE NOVARIA
CONSTRUCTION & ENGINEERING MANAGER
WIDE OPEN WEST
3675 CORPORATE DRIVE
COLUMBUS, OH 43231
(614) 725–5003 – PHONE
(614) 668–7632 – CELL
JNOVARIA@WIDEOPENWEST.COM

AL GUEST
OUTSIDE PLANT ENGINEER
VERIZON BUSINESS (AKA MCI)
120 RAVINE STREET
AKRON, OHIO 44303
(330) 253–8267 – PHONE
(330) 535–9056 – FAX
(330) 329–5495 – CELL
ALLAN.GUEST@VERIZONBUSINESS.COM

JEREMY JOHNSON
IMPLEMENTATION ENGINEER
XO COMMUNICATION
FKA NEXTLINK
10 WEST BROAD STREET, SUITE 300
COLUMBUS, OHIO 43215
(614) 416–1703 – PHONE
(614) 416–9269 – FAX
(614) 512–7886 – CELL
JEREMY.W.JOHNSON@XO.COM

DAVID SCOTT
TELECOMMUNICATIONS SPECIALIST
NETWORK ENGINEERING
AT&T OHIO
111 N 4TH ST ROOM 802
COLUMBUS OH 43215
(614) 223–4362 – PHONE
DS2934@ATT.COM

TOM MUSICK
VICE PRESIDENT, ENGINEERING
SOUTH CENTRAL POWER
P.O. BOX 250
LANCASTER, OHIO 43130
(740) 653–4422 – PHONE
MUSICK@SOUTHCENTRALPOWER.COM

LEON TAYLOR
OSP PROJECT MANAGER–OHIO
WINDSTREAM–KDL INC.
2165 ST. RT. 133 SOUTH
BLANCHESTER, OH 44236
(937) 725–5358 – PHONE
(812) 760–6602 – CELL
(812) 456–4731 – FAX
LEON.TAYLOR@WINDSTREAM.COM

ERIC MORRISON
OPERATIONS ENGINEER
NE OHIO NATURAL GAS CORP.
5640 LANCASTER–NEWARK RD.
PLEASANTVILLE, OHIO 43448
(740) 862–3300 – PHONE
(740) 862–6330 – FAX
(740) 808–6028 – CELL
EMORRISON@NEOGAS.COM

CHRISTOPHER R. STRAYER
LEAD TECHNICAL PROJECT MANAGER
CENTURY LINK QCC
4650 LAKEHURST COURT
DUBLIN, OH 43016
(303) 886–1299 – CELL
CHRISTOPHER.STRAYER@CENTURYLINK.COM

2953-E

FEDERAL PROJECT NUMBER E100(958)

CIP: 540007–100005
PID NUMBER: 14522

GENERAL NOTES SHEET 1 OF 12

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE C – CONSTRUCTION AS–BUILT

GENERAL 1

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EMERGENCY PROVISIONS

THE CONTRACTOR SHALL PROVIDE TO THE CITY OF COLUMBUS 24–HOUR EMERGENCY TELEPHONE NUMBERS, IN WRITING, PRIOR TO THE START OF CONSTRUCTION.

CONFLICTS WITH STREET TREES

CONTRACTOR SHALL CONTACT THE FORESTRY SECTION OF RECREATION AND PARKS DEPARTMENT WHEN A CONFLICT WITH STREET TREES EXISTS AT (614) 645–6640 TO REPORT WORK.

MISCELLANEOUS WORK ITEMS

THE CONTRACTOR SHALL PERFORM ALL ITEMS OF WORK CALLED FOR ON THE PLANS, FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED. THE COST OF IT SHALL BE INCLUDED IN THE VARIOUS UNIT PRICES BID FOR THE PROJECT IMPROVEMENT.

CONTINGENCY QUANITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK SHOWN, LABELED, OR LISTED AS CONTINGENCY OR REFERENCED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER," UNLESS AUTHORIZED BY THE ENGINEER, OR AN ACCEPTABLE REPRESENTATIVE FOR THE CITY OF COLUMBUS DIVISION OF DESIGN AND CONSTRUCTION.

DUST CONTROL

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED TO BE USED AT THE DIRECTION OF THE ENGINEER FOR THE PURPOSE OF DUST CONTROL WITHIN THE PROJECT LIMITS:

ITEM 616 – CALCIUM CHLORIDE	24 TONS
ITEM 616 – WATER	10 THOUSAND GALLONS

WATERING PERMANENT SEEDED AREAS

THE FOLLOWING ESTIMATED QUANTITY IS TO BE USED AS DIRECTED BY THE ENGINEER TO PROMOTE GROWTH FOR THE PERMANENT SEEDED AREAS AS PER 659.09:

ITEM 659 – WATER	10 THOUSAND GALLONS

ENCROACHMENTS

THROUGH THE DESIGN OF THIS PROJECT ENCROACHMENTS WERE NOT IDENTIFIED IN THE PROJECT LIMITS. FIELD INVESTIGATION, AND COLUMBUS AND FRANKLIN COUNTY RECORD PLANS WERE USED FOR THE DEVELOPMENT OF THE PLANS.

UNDERGROUND FIBER OPTIC CABLE INSTALLATION

THE QUANTITY FOR INSTALLATION OF UNDERGROUND FIBER OPTIC CABLE (FOC) IS CARRIED TO THE GENERAL SUMMARY AND WAS CALCULATED BY COMBINING UNDERGROUND INSTALLATION ELEMENT QUANTITIES AND WAS DERIVED AS FOLLOWS:

CONDUIT, 3", AS PER PLAN	=	1,222 FT	(1)
CONDUIT, 4", AS PER PLAN	=	70,708 FT	(2)
CONDUIT, CONCRETE ENCASED, 2–3", 725.05, AS PER PLAN	=	4,992 FT	(3)
CONDUIT, CONCRETE ENCASED, 4–3", 725.05, AS PER PLAN	=	5,572 FT	(4)
CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	=	18,421 FT	(5)
CONDUIT, JACKED OR DRILLED, 4", AS PER PLAN	=	1,279 FT	(6)
FIBER OPTIC CABLE, MISC.: UNDERGROUND FIBER OPTIC INSTALLATION	=	SUM (1–6) 92,194 FT	

CONCRETE WALKS, AS PER PLAN

ALL EXISTING CONCRETE SIDEWALKS BEING REPLACED WITH NEW CONCRETE SIDEWALKS SHALL BE REMOVED AT AN EXISTING JOINT AND REPLACED AS PER CSD 2300.

ALL EXISTING CONCRETE SIDEWALKS NOT SCHEDULED FOR REPLACEMENT BUT BEING CROSSED BY THE INSTALLATION OF TRAFFIC ITEMS, ELECTRICAL CONDUIT, PIPING, ETC SHALL BE FULLY REMOVED AT AN EXISTING JOINT AND REPLACED AS PER STANDARD DRAWING 2300 UNLESS NOTED OTHERWISE. PAYMENT SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 608, CONCRETE WALK.

IF EXISTING CURB RAMPS ARE DISTURBED – REPLACE WITH TYPE 'A' CURB RAMPS PER SCD 2319.

DEPENDENT ON LOCATION OF EXISTING WALK BEING REPLACED – 8" THICK WALK MAY BE REQUIRED WITHIN TURN RADIUS, SEE SCD 2303 FOR DETAILS.

IN CONJUNCTION WITH ANY CURB RAMP REPLACEMENT: TYPE 'E' DETECTABLE WARNINGS SHALL BE INSTALLED.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE OF THESE WORK LIMITS.

BENCHMARKS AND SURVEY MONUMENTS

ANY ELEVATIONS IDENTIFIED ARE BASED ON 1988 NORTH AMERICAN VERTICAL DATUM (NAVD 88).

ANY VERTICAL CONTROL POINTS SET USED A COUNTY, OR CITY CERTIFIED SOURCE MONUMENT FOR ITS POINT OF ORIGIN, AND ARE CALLED OUT AND SHOWN ON THE PLAN AND PROFILE SHEETS AND/OR SCHEMATIC SHEET.

DO NOT DISTURB ANY FRANKLIN COUNTY CERTIFIED BENCHMARKS (VERTICAL AND/OR HORIZONTAL) LOCATED WITHIN THE WORKING LIMITS OF THE PROJECT. CONTRACTOR SHALL CONTACT THE FRANKLIN COUNTY SURVEY DEPARTMENT (614) 462–3026, PRIOR TO CONSTRUCTION, TO COORDINATE THE PROPER PROCEDURES FOR THE RESETTING, RELOCATION, OR REPLACEMENT OF ANY FRANKLIN COUNTY CERTIFIED BENCHMARK OR SURVEY MONUMENT.

ALL EXISTING RIGHT–OF–WAY MARKERS, CENTERLINE MARKERS, OR SURVEY MONUMENTS FOUND WITHIN THE WORK LIMITS OF OR ADJACENT TO THE PROJECT ARE SHOWN AND LABELED ON THE PLANS.

ANY CONSTRUCTION CONTROL POINTS SET FOR THIS PROJECT HAVE BEEN SUPPLIED WITH THREE POINT REFERENCES.

LIMITED ACCESS RIGHT OF WAY (LA R/W)

THE LA R/W INFORMATION SHOWN ON THE PLANS CAME FROM A VARIETY OF SOURCES; FOR MOST AREAS, AN ACTUAL FIELD SURVEY OF AREAS WAS NOT COMPLETED; AND THE LA R/W INFORMATION SHOULD BE USED FOR REFERENCE PURPOSES ONLY.

REMOVAL MISC.: REMOVE EXISTING OVERHEAD EQUIPMENT

THE CONTRACTOR SHALL REMOVE THE EXISTING WIRELESS RECEIVER AND ANY ITEMS THEREIN. UNLESS OTHERWISE INDICATED IN THE PLANS, THE CONTRACTOR SHALL SALVAGE AND DELIVER ALL REMOVED ITEMS TO THE "CITY OF COLUMBUS DIVISION OF TRAFFIC MANAGEMENT" AT 1820 E. 17TH AVE., COLUMBUS, OHIO. THE CONTRACTOR SHALL CONTACT THE CITY OF COLUMBUS, DIVISION OF TRAFFIC MANAGEMENT TRAFFIC OPERATIONS MANAGER (645–7393) TWENTY–FOUR (24) HOURS, EXCLUDING SATURDAY AND SUNDAY, IN ADVANCE TO SCHEDULE DELIVERY. NO ITEMS WILL BE ACCEPTED WITHOUT FOLLOWING THIS PROCEDURE. THE TRAFFIC OPERATIONS MANAGER SHALL INSPECT THE CONDITION OF ALL SALVAGED ITEMS BEING PRESENTED FOR DELIVERY. NO ITEM DAMAGED BY THE CONTRACTOR WILL BE ACCEPTED, AND NO ITEM SHALL BE CONSIDERED DELIVERED UNTIL THE TRAFFIC OPERATIONS MANAGER ISSUES A RECEIPT TO THE CONTRACTOR ACKNOWLEDGING ACCEPTANCE OF DELIVERY.

ITEM 633 – SIGNALIZATION, MISC.: SYSTEM INTEGRATION, LUMP SUM

THIS PAY ITEM INCLUDES ALL WORK REQUIRED TO SEAMLESSLY INTEGRATE PHASE C SIGNALS AND COMPONENTS INTO THE CSS SYSTEM, IN ORDER TO ACHIEVE THE SAME LEVEL OF FUNCTIONALITY OF THE PHASE C INTERSECTIONS AS HAS BEEN ESTABLISHED THROUGH THE PREVIOUS CTSS PHASE INSTALLATION. FOR MORE INFORMATION, SEE SP–103.

CLEARING AND GRUBBING

THE CITY OF COLUMBUS RESERVES THE RIGHT TO ORDER THE REMOVAL OF TREES OR STUMPS OUTSIDE THE LIMITS OF CONSTRUCTION BUT WITHIN THE RIGHT–OF–WAY AND / OR EASEMENT LINES. PAYMENT FOR REMOVAL OF THESE TREES OR STUMPS SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 201, CLEARING AND GRUBBING.

ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18	0	0	0
30	0	0	0
48	0	0	0
60	0	0	0

C.O.T.A. – SIGNS AND/OR BUS STOPS

PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL CONTACT ANDREW VOLENIK OF THE CENTRAL OHIO TRANSIT AUTHORITY (C.O.T.A.) AT PH – (614) 308–4373, FAX – (614) 275–5933, OR E–MAIL – VOLENIKAM@COTA.COM TO COORDINATE PROPER BUS MOVEMENTS THROUGH OR AROUND THE JOB SITE DURING THE PROJECT. THIS WILL INCLUDE, BUT NOT BE LIMITED TO, THE TEMPORARY RELOCATION OR REMOVAL OF C.O.T.A. SIGNS AND/OR BUS STOP LOCATIONS.

MANHOLE AND / OR INLET ADJUSTED TO GRADE

BEFORE ADJUSTING EXISTING MANHOLES AND/OR CURB INLETS TO GRADE, THE CONTRACTOR, IN THE PRESENCE OF THE CITY ENGINEER OR AN ACCEPTABLE REPRESENTATIVE, SHALL INSPECT SAID STRUCTURES. IF STRUCTURES ARE IN POOR CONDITION, THEY SHALL BE REPLACED WITH NEW STRUCTURES AT THE APPROPRIATE ELEVATIONS.

MAINTAIN DRAINAGE

THE CONTRACTOR AT HIS OWN EXPENSE SHALL MAINTAIN THE FLOW IN ALL SEWERS, DRAINS, FIELD TILES, AND WATERCOURSES ENCOUNTERED IN AND AROUND THE PROJECT SITE. IF SUCH WATERCOURSES OR DRAINS ARE DISTURBED OR DESTROYED DURING THE EXECUTION OF THE PROJECT, THEY SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE TO A CONDITION SATISFACTORY TO THE ENGINEER.

USE OF HYDRANTS

PERMITS AND FEES ARE REQUIRED FOR THE USE OF ANY FIRE HYDRANT. THE PERMIT CAN BE OBTAINED FROM THE CITY OF COLUMBUS, WATER DIVISION AT 910 DUBLIN ROAD. HOSES SHALL NOT BE CONNECTED TO A FIRE HYDRANT WHILE LEFT UNATTENDED.

MONUMENTED RIGHT–OF–WAY AND PROPERTY CORNERS

AVOID DISTURBING EXISTING RIGHT–OF–WAY OR PROPERTY CORNER MARKERS DURING CONSTRUCTION. IF DISTURBED DURING CONSTRUCTION, THE MARKERS SHALL BE REPLACED PER CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, SECTION 107.12.

SECURING EXCAVATIONS & TRENCHES FOR NON–WORKING HOURS

EXCAVATIONS AND TRENCHES OVER 24–INCHES DEEP SHALL BE SECURELY PLATED, OR BACKFILLED DURING NON–WORKING HOURS.

ITEM SPEC. – CRITICAL PATH METHOD PROGRESS SCHEDULE FOR LONG DURATION PROJECTS

THIS ITEM SHALL COMPLY WITH CMSC SECTION 108.3 – "TYPE 'B' CPM PROGRESS SCHEDULE"

FEDERAL PROJECT NUMBER E100(958)

CIP: 540007–100005
PID NUMBER: 14522

GENERAL NOTES SHEET 2 OF 12

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE C – CONSTRUCTION AS–BUILT

2953-E

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TREE PROTECTION DURING CONSTRUCTION

PUBLIC TREES WILL BE PROTECTED AGAINST INJURY OR DAMAGE TO ROOTS, TRUNKS, OR BRANCHES FROM EXCAVATIONS AND CONSTRUCTION. THIS SHALL BE DONE IN ACCORDANCE WITH THE CITY OF COLUMBUS, FORESTRY SECTION AND BY THE FOLLOWING REQUIREMENTS:

- ALL TREE PRUNING AND REMOVAL MUST BE DONE IN ACCORDANCE TO ANSI A300 AND ANSI Z133.1 STANDARDS. THE CONTRACTOR PERFORMING THE WORK MUST BE A PROFESSIONAL TREE CARE COMPANY WITH A CERTIFIED ARBORIST ON STAFF AND AVAILABLE TO DIRECT THE ON-SITE CREW.
- HEAVY EQUIPMENT WILL NOT BE ALLOWED TO COMPACT THE SOIL OVER THE CRITICAL ROOT ZONE (AREA FROM TRUNK TO ONE FOOT BEYOND DRIPLINE) OF EXISTING TREES. RESTRICTED EQUIPMENT ACCESS ROUTES WILL BE ESTABLISHED BEFORE WORK IS BEGUN. TEMPORARY PAVING MATERIALS SUCH AS PLYWOOD OR RUBBER MATTING SPREAD OVER THE ROOT ZONE MAY BE REQUIRED TO PREVENT COMPACTION.
- INSTALLATION OF UTILITIES UNDER THE DRIPLINE OF EXISTING TREES MUST BE DIRECTIONALLY BORED OR DRILLED BELOW THE ROOT ZONE. TOP OF THE BORE OR TUNNEL SHOULD BE NO HIGHER THAN 3 FEET DEEP. OPEN TRENCHES WITHIN THE ROOT ZONE MUST BE AVOIDED. WHEN ROOTS MUST BE SEVERED, CLEAN CUTS MUST BE MADE WITH PROPER PRUNING TOOLS.
- WHERE GRADE CHANGE IS REQUIRED WITHIN THE ROOT ZONE OF PUBLIC TREES, A SUFFICIENT RESIDUAL ROOT ZONE TO PROVIDE FOR THE GOOD HEALTH OF THE TREES SHOULD REMAIN UNDISTURBED AND PROTECTED BY EITHER A DRY WELL OR RETAINING WALL IF THE GRADE IS TO BE RAISED OR LOWERED.
- CONSTRUCTION MATERIALS, EXCAVATION DEBRIS, CHEMICALS, FUEL, EQUIPMENT OR VEHICLES ARE NOT TO BE STOCKPILED, STORED, DUMPED OR PARKED WITHIN THE DRIPLINE OF PUBLIC TREES.
- FIRES ARE NOT PERMITTED WITHIN THE DRIPLINE OF ANY TREES.
- ALL EXISTING TREES DESIGNATED FOR PRESERVATION WILL BE PROTECTED WITH A GOOD, SUBSTANTIAL FENCE, FRAME OR BOX NOT LESS THAN FOUR FEET HIGH AND AS FAR FROM THE TREE AS POSSIBLE. DRIPLINE IS PREFERABLE, HOWEVER, ACTUAL LOCATION WILL BE DETERMINED BY SITE LIMITATIONS.
- FENCING WILL BE INSTALLED BEFORE COMMENCING SITE PREPARATION WORK. FENCE MUST BE MAINTAINED DURING THE FULL CONSTRUCTION PERIOD.

ANY TREES DAMAGED OR DESTROYED DUE TO CONTRACTOR NEGLIGENCE WILL BE TREATED OR REMOVED AT THE CONTRACTOR'S EXPENSE. IF DAMAGED BEYOND REPAIR, THE CITY WILL REQUIRE REIMBURSEMENT FOR THE VALUE OF THE TREE AS DETERMINED BY THE CURRENT EDITION OF THE 'GUIDE FOR PLANT APPRAISAL' PUBLISHED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE.

VALVE BOXES & OTHER SURFACE STRUCTURES

ALL VALVE BOXES; METER PITS & OTHER UTILITY STRUCTURES SHALL BE ADJUSTED TO GRADE WHERE NEW WALK, PAVERS, CURBS, AND ETCETERA ARE CONSTRUCTED.

COLUMBIA GAS DAMAGE PREVENTION CENTER

FOR INFORMATION CONCERNING COLUMBIA GAS LINES OR EQUIPMENT, OR IF DAMAGE OCCURS TO GAS LINES OR EQUIPMENT THE CONTRACTOR CAN CALL THE COLUMBIA GAS DAMAGE PREVENTION CENTER AT (614) 280-7372 OR TOLL FREE AT (866) 632-6243.

PAVEMENT CUTTING

PURSUANT TO OHIO ENVIRONMENTAL PROTECTION AGENCY'S ENFORCEMENT OF PHASE II OF THE NPDES AMENDMENT TO THE CLEAN WATER ACT OF THE UNITED STATES OF AMERICA; ALL AGENCIES AND CONTRACTORS PERFORMING PAVEMENT CUTTING OPERATIONS ON CITY OF COLUMBUS STREETS SHALL PROTECT OUR ENVIRONMENT FROM THE DIMINUTIVE DISCHARGES CREATED BY THEIR PAVEMENT CUTTING OPERATIONS.

THIS REQUIREMENT INCLUDES BUT IS NOT LIMITED TO WET OR DRY SAW CUTTING, JACK HAMMERING, EXCAVATION EQUIPMENT USE, ETC. THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR WORK CREWS SHALL RECOVER PARTICLE, LIQUID, OR OTHER SUCH SMALL DISCHARGES RESULTING FROM THEIR PAVEMENT CUTTING OPERATIONS AND PROTECT ALL STORM SEWER INLETS FROM RECEIVING RUNOFF OF SAID DIMINUTIVE DISCHARGES. THE AGENCY OR CONTRACTOR RESPONSIBLE FOR THE PAVEMENT CUTTING ACTIVITY SHALL BE SOLELY LIABLE FOR NOTICE OF VIOLATIONS (NOVs) AND FINES ISSUED BY THE CITY OF COLUMBUS AND/OR STATE OF OHIO AUTHORITIES.

EQUIPMENT, MATERIALS AND METHODS SHALL BE AVAILABLE TO WORK CREWS FOR USE IN CLEANING UP THE SMALL DISCHARGES RESULTING FROM SUCH CUTTING ACTIVITIES. ADDITIONALLY, WORK CREWS SHALL BE TRAINED TO EXERCISE AND EMPLOY ENVIRONMENTAL PROTECTING MEASURES TO PREVENT POLLUTED DISCHARGES FROM ENTERING THE CITY OF COLUMBUS STORM SEWER SYSTEMS AND WATER COURSES.

DIVISION OF POWER

THE DIVISION OF POWER (DOP) HAS OVERHEAD AND UNDERGROUND PRIMARY, SECONDARY, AND STREET LIGHTING AT VARIOUS LOCATIONS ON THIS PROJECT. THE CONTRACTOR IS HEREBY REQUIRED TO CONTACT OUPS AT (800) 362-2764 FORTY-EIGHT HOURS PRIOR TO CONDUCTING ANY ACTIVITY WITHIN THE CONSTRUCTION AREA. THE DOP DISPATCH OFFICE NUMBER IS: (614) 645-7627 (VOICE).

ANY REQUIRED RELOCATION, SUPPORT, PROTECTION, OR ANY OTHER ACTIVITY CONCERNED WITH THE CITY'S ELECTRICAL FACILITIES IN THE CONSTRUCTION AREA IS TO BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECTION OF DOP PERSONNEL AND AT THE EXPENSE OF THE PROJECT. DOP SHALL MAKE ALL FINAL CONNECTIONS TO DOP'S EXISTING ELECTRICAL SYSTEM AT THE EXPENSE OF THE PROJECT. THE CONTRACTOR SHALL USE MATERIAL AND MAKE REPAIRS TO A CITY OF COLUMBUS STREET LIGHTING SYSTEM BY FOLLOWING DOP'S "MATERIAL AND INSTALLATION SPECIFICATIONS" (MIS) AND THE CITY OF COLUMBUS "CONSTRUCTION AND MATERIAL SPECIFICATIONS" (CMS). ANY NEW OR RE-INSTALLED UNDERGROUND STREETLIGHT SYSTEM SHALL REQUIRE TESTING AS REFERRED TO IN SECTION 1000.18 OF THE CMS MANUAL. THE CONTRACTOR SHALL CONFORM TO DOP'S EXISTING CONDUCTOR SAFETY POLICY AND HOLD CARD SYSTEM, MIS-95, COPIES OF WHICH ARE AVAILABLE FROM DOP. IF YOU HAVE ANY QUESTIONS, CALL MIHAI ORBOCEA AT (614) 645-6851 OR CHRIS VOGEL AT (614) 645-6963.

IF ANY ELECTRIC FACILITY BELONGING TO DOP IS DAMAGED IN ANY MANNER BY THE CONTRACTOR, ITS AGENTS, SERVANTS, OR EMPLOYEES, AND REQUIRES EMERGENCY REPAIRS, DOP SHALL MAKE ALL NECESSARY REPAIRS, AND THE EXPENSE OF SUCH REPAIRS AND OTHER RELATED COSTS SHALL BE PAID BY THE CONTRACTOR TO THE DIVISION OF POWER, CITY OF COLUMBUS, OHIO.

THE CONTRACTOR SHALL EXERCISE CAUTION AND FOLLOW ALL APPLICABLE SAFETY PROCEDURES WHEN WORKING ON OR NEAR A COMBINATION POLE--TRAFFIC SIGNAL POLE WITH AN ATTACHED STREET LIGHT LUMINAIRE. THE MAJORITY OF STREET LIGHTS OPERATE ON 480 VAC; SO GIVEN THAT SITUATION, THE CONTRACTOR CAN EXPECT 480 VAC STREET LIGHT WIRING TO BE CONTAINED INSIDE OR ATTACHED TO THE TRAFFIC SIGNAL POLE. IN CASE OF QUESTIONS REGARDING THE VOLTAGE OF A STREET LIGHT ON A COMBINATION POLE, THE CONTRACTOR SHALL CONTACT THE DIVISION OF POWER AT (614) 645-7627 OR THE DIVISION OF PLANNING AND OPERATIONS AT (614) 645-7933.

DIVISION OF WATER

EXPOSE WATER LINE AT CROSSING(S) TO VERIFY DEPTH AND LOCATION PRIOR TO AND DURING ANY DIRECTIONAL BORING (DIMENSIONED BORE PITS WILL BE IDENTIFIED AFTER THE FIELD SUE INVESTIGATION PRIOR TO STAGE 3).

THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL CUSTOMERS OWNED SERVICE LINES. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ANY CITY OR CUSTOMER OWNED MAIN OR SERVICE LINE THAT MAY BE AFFECTED BY THE PROPOSED CONSTRUCTION ACTIVITIES. FIELD VERIFICATION SHALL TAKE PLACE PRIOR TO ANY ACTIVITY THAT MAY JEOPARDIZE THE INTEGRITY OF THE FACILITY AND AT A LOCATION NEAREST THE POINT OF POSSIBLE CONFLICT.

ANY REPAIR TO CITY OR CUSTOMER OWNED WATER LINES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL CONTACT THE CITY OF COLUMBUS, DIVISION OF WATER AT 645-7788 PRIOR TO ANY REPAIRS ON CITY OWNED WATER FACILITIES. THE CONTRACTOR MUST BE A CITY OF COLUMBUS LICENSED WATER CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3' HORIZONTAL AND 1' VERTICAL CLEARANCE FROM THE OUTSIDE DIAMETER OF ALL WATER LINES AND 8' FROM ANY "TEE" CONNECTION, BANDS AND ENDS OF THE WATER LINES, FROM OUTSIDE DIAMETER TO THE NEAREST EDGE OF THE FACILITY BEING PLACED.

ALL WATER LINE MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT RULES AND REGULATIONS OF THE CITY OF COLUMBUS, DIVISION OF WATER.

VALVE OPERATION SHALL BE PER CODE CHAPTER 1113. VALVE STEM EXTENSIONS ARE REQUIRED TO BE BETWEEN 24" & 36", PER 802 SERVICE TRANSFER AND LINE ABANDONMENT SHALL BE AS PER 805 AND 816.

DIVISION OF SEWERAGE AND DRAINAGE UTILITIES

CITY OF COLUMBUS LOCATORS WILL ONLY LOCATE AND MARK MAIN LINE SEWERS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE LOCATION OF ALL MAIN LINE SEWERS AND PRIVATE SERVICE LATERALS. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES TO SEWER MAINS AND/OR SERVICE LATERALS. ALL REPAIRS TO THE SEWER LINES AND/OR SERVICE LATERALS MUST BE COMPLETED BY A CITY OF COLUMBUS LICENSED SEWER CONTRACTOR UNDER A SEPARATE SEWER PERMIT.
THE CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE OF 3' HORIZONTAL AND 1' VERTICAL FROM THE OUTSIDE DIAMETER OF ALL SEWER AND WATER LINES.

BRICK SEWERS

THE CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE OF 10' HORIZONTAL AND 5' VERTICAL FROM THE OUTSIDE DIAMETER OF ALL BRICK/SEGMENTED BLOCK SEWERS. THE SEWERS MUST BE LABELED "BRICK" AND THE OUTSIDE DIAMETER PIPE SIZE INDICATED ON THE PLANS. BRICK/BLOCK SEWERS SHALL NOT BE EXPOSED, AS IT MAY CAUSE COLLAPSE OF THE SEWER DUE TO REMOVAL OF THE BACKFILL MATERIAL.

EXCAVATION OF ROADWAY AND RIGHT-OF-WAY AREAS

ANY CONTRACTOR PERFORMING EXCAVATION, INCLUDING BUT NOT LIMITED TO DISTURBING THE EARTH WITH POWERED OR NON-POWERED EQUIPMENT, DRILLING AND/OR BORING, SHALL CAUSE NOTICE TO BE GIVEN TO THE OHIO UTILITIES PROTECTION SERVICE (OUPS) BY CALLING 811 OR (800) 362-2764, OR ONLINE AT WWW.OUPS.ORG AT LEAST 48 HOURS BUT NOT MORE THAN 10 WORKING DAYS BEFORE EXCAVATING.

UPON NOTIFICATION BY OUPS, THE CITY OF COLUMBUS WILL MARK THE APPROXIMATE LOCATION OF CITY OWNED WATER, SEWER, AND ELECTRIC FACILITIES TO THE BEST OF ITS ABILITY. THE EXCAVATOR SHALL PROTECT AND PRESERVE THE MARKINGS UNTIL THOSE MARKINGS ARE NO LONGER NEEDED.

IF AN EXCAVATION WILL COVER A LARGE AREA AND/OR PROGRESS FROM ONE AREA TO THE NEXT OVER A PERIOD OF TIME, THE EXCAVATOR SHALL COORDINATE THE MARKING OF APPROXIMATE LOCATIONS OF CITY OWNED FACILITIES WITH THE ACTUAL EXCAVATION.

THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL CUSTOMER OWNED SERVICE LINES/LATERALS. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ANY CITY OR CUSTOMER OWNED MAIN OR SERVICE LINE/LATERALS THAT MAY BE AFFECTED BY THE PROPOSED CONSTRUCTION ACTIVITIES. FIELD VERIFICATION SHALL TAKE PLACE PRIOR TO ANY ACTIVITY THAT MAY JEOPARDIZE THE INTEGRITY OF THE FACILITY AND AT A LOCATION NEAREST THE POINT OF POSSIBLE CONFLICT.

ANY DAMAGES TO CITY OR CUSTOMER OWNED FACILITIES SHOULD FIRST BE REPORTED TO THE UTILITY OWNER THEN IMMEDIATELY NOTIFY THE PROJECT ENGINEER.

ANY REPAIR TO CITY OR CUSTOMER OWNED WATER OR SEWER FACILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH REPAIRS SHALL BE COMPLETED BY A CITY OF COLUMBUS LICENSED SEWER AND/OR WATER CONTRACTOR. REPAIRS TO SEWER FACILITIES SHALL REQUIRE A SEPARATE SEWER PERMIT.

THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3' HORIZONTAL AND 1' VERTICAL CLEARANCE FROM THE OUTSIDE DIAMETER OF ALL SEWER AND WATER LINES AND 5' FROM SUPPORTING BLOCKS TO THE NEAREST EDGE OF THE FACILITY BEING PLACED.

THE CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE OF 10' HORIZONTAL AND 5' VERTICAL FROM THE OUTSIDE DIAMETER OF ALL BRICK SEWERS. BRICK SEWERS SHALL NOT BE EXPOSED AS THIS MAY CAUSE A COLLAPSE OF THE SEWER.

PROJECT INSPECTION, PLAN CHANGES & NOTIFICATION

IN ADDITION TO PROJECT INSPECTION PERSONNEL, THE ENGINEER SHALL BE PRESENT TO INSPECT THE INSTALLATION AT ALL NEW NODE CABINETS. ANY CHANGE TO THE PLANS SHALL BE APPROVED BY THE ENGINEER PRIOR TO ITS IMPLEMENTATION.

MATERIAL INFORMATION SUBMITTAL

THE CONTRACTOR SHALL SUBMIT ALL REQUIRED MATERIALS FOR APPROVAL TO THE CITY OF COLUMBUS, DIVISION OF DESIGN AND CONSTRUCTION, TO THE CONSTRUCTION ENGINEER, 1800 E. 17TH AVENUE, COLUMBUS, OHIO 43219. THE MATERIAL SUBMISSION SHALL CONTAIN ONE (1) COMPLETE SET OF CATALOG CUTS, DIAGRAMS, SHOP DRAWINGS, BROCHURES OR OTHER DESCRIPTIVE MATERIAL FOR THE SIGNAL ITEMS THAT THE CONTRACTOR INTENDS TO FURNISH THAT HAVE NOT BEEN SPECIFICALLY NAMED IN THESE PLANS BY PRODUCT MODEL NUMBER. THE CONTRACTOR SHALL ALSO PROVIDE A DETAILED LIST OF ALL VARIANCES FROM CMSC AND FROM THE SPECIFICATIONS CONTAINED HEREIN FOR EACH NONSPECIFIED ITEM THAT DOES NOT COMPLY 100% WITH THESE SPECIFICATIONS. UNLESS OTHERWISE STATED BY THE CONTRACTOR THE SUPPLIED ITEMS WILL BE CONSIDERED AS BEING IN STRICT ACCORDANCE WITH ALL SPECIFICATIONS, INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS.

FEDERAL PROJECT NUMBER E100(958)
CIP: 540007-100005 PID NUMBER: 14522
GENERAL NOTES SHEET 3 OF 12
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE C - CONSTRUCTION AS-BUILT
17 911

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ENVIRONMENTAL COMMITMENTS MADE AND RESOURCES TO BE AVOIDED.

MORPC WILL BE CONDUCTING FUTURE STAKEHOLDER MEETINGS WITH THE JURISDICTIONS AFFECTED BY THIS PROJECT. IF THESE MEETINGS RESULT IN ANY ADDITIONS TO THE PROJECT FOOTPRINT, THIS CE DOCUMENT WILL BE REEVALUATED.

THE CONTRACTOR SHALL FOLLOW BEST MANAGEMENT PRACTICES (BMP'S) FOR SEDIMENT AND EROSION CONTROL DURING CONSTRUCTION AND POST CONSTRUCTION IN ACCORDANCE WITH CITY OF COLUMBUS CONSTRUCTION AND MATERIALS SPECIFICATIONS (CMSC).

THE APPROPRIATE AGENCIES WILL BE NOTIFIED IF FUTURE PUBLIC INVOLVEMENT ACTIVITIES RESULT IN ANY CHANGES TO THE ENVIRONMENTAL CONSEQUENCES OF THE PROPOSED PROJECT.

THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER SHALL BE KEPT ON-SITE AT ALL TIMES.

STREET CLEANING (ON AN AS-NEEDED BASIS) IS REQUIRED THROUGH THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING, AND (IF NECESSARY) MANUAL REMOVAL OF DIRT OR MUD IN THE STREET GUTTERS.

WATERSHED PROTECTION

THE WORK ASSOCIATED WITH THIS PROJECT IS BEING PERFORMED WITHIN THE DIRECT DRAINAGE AREA OF A MAJOR DRINKING WATER SUPPLY FOR THE CITY OF COLUMBUS. IT IS ESSENTIAL THAT ALL ACTIVITIES ASSOCIATED WITH THIS WORK BE PERFORMED IN A MANNER CONSISTENT WITH BEST WATERSHED MANAGEMENT PRACTICES INCLUDING, BUT NOT LIMITED TO:

AREAS OF DISTURBED GROUND SHALL HAVE APPROPRIATE EROSION AND SEDIMENT CONTROLS. IF HAZARDOUS/TOXIC MATERIALS INCLUDING BUT NOT LIMITED TO FUELS, OILS, BITUMEN'S PAINTS, SEALANTS, OR OTHER CHEMICALS, ARE STORED ON SITE, THEY SHALL BE STORED IN A DOUBLE-CONTAINMENT MANNER. ALL EQUIPMENT REPAIRS, MAINTENANCE, AND MECHANICAL WORK THAT COULD RESULT IN THE RELEASE OF HAZARDOUS/TOXIC MATERIALS SHALL BE PERFORMED IN AN APPROPRIATELY CONTAINED AREA, PREFERABLY OFF SITE OR AN APPROPRIATE OFF-SITE FACILITY.

IN THE EVENT THAT ANY HAZARDOUS/TOXIC MATERIALS INCLUDING, BUT NOT LIMITED TO FUELS, OILS, BITUMEN'S PAINTS, SEALANTS, OR OTHER CHEMICALS ARE SPILLED INTO THE SCIOTO RIVER OR ITS TRIBUTARIES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY OF COLUMBUS DUBLIN ROAD WATER TREATMENT PLANT AT (614) 645-8297. THE CONTRACTOR SHOULD BE PREPARED TO PROVIDE DETAILED INFORMATION RELATIVE TO THE TYPE AND QUANTITY OF MATERIAL THAT HAS BEEN SPILLED AS WELL AS THE EXACT LOCATION AND THE EXACT TIME AT WHICH THE SPILL OCCURRED.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR INFORMING ALL SUBCONTRACTORS AND OTHER AGENTS OF THESE RESPONSIBILITIES, PRECAUTIONS, AND PROHIBITIONS.

STREAM/WETLAND/WATER COURSE AVOIDANCE

NO FILLING, GRADING, OPERATION OR PLACEMENT OF EQUIPMENT OF OTHER WORK SHALL BE PERMITTED BELOW THE ORDINARY HIGH WATER MARK OF ANY STREAM OR OTHER WATER COURSES OR WITHIN ANY WETLANDS UNLESS THE REQUIRED STATE AND/OR FEDERAL PERMITS HAVE BEEN OBTAINED IN ACCORDANCE WITH ALL APPLICABLE STATE AND/OR FEDERAL LAWS AND REGULATIONS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR STORE EQUIPMENT AND/OR MATERIALS IN ANY WETLANDS, STREAMS AND OTHER WATER COURSES OR WITHIN 100-YEAR FLOODPLAIN LIMITS OF ANY WATER COURSES.

INDIANA BAT HABITAT

CLEARING OF ANY TREES THAT HAVE SUITABLE SUMMER BROOD REARING OR ROOSTING HABITAT FOR THE FEDERALLY ENDANGERED INDIANA BAT (LIVING OR STANDING DEAD TREES OR SNAGS WITH EXFOLIATING, PEELING OR LOOSE BARK, SPLIT TRUNKS AND/OR BRANCHES, OR CAVITIES), SHALL OCCUR ONLY DURING THE PERIOD BEFORE APRIL 1 AND AFTER SEPTEMBER 30, WHEN THIS SPECIES WOULD NOT BE USING SUCH HABITAT.

WORK OCCURING AT RAILROAD CROSSINGS

THE CONTRACTOR MUST SECURE ALL NECESSARY PERMITS AND/OR FORMS REQUIRED TO PERFORM WORK AT RAILROAD CROSSINGS AS SHOWN IN THE PLANS. ANY AND ALL COSTS INCURRED FROM THE RAILROAD INCLUDING, BUT NOT LIMITED TO, RIGHT-OF-WAY ENTRY FEES, APPLICATIONS, AND ON SITE RAILROAD INSPECTION FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND WILL BE CONSIDERED INCIDENTAL TO THE COST OF ITEM 632: FIBER OPTIC CABLE, MISC.: 144 STRAND CABLE. NOTIFY THE ENGINEER IN WRITING TWO WEEKS PRIOR TO CONTACTING RAILROAD COMPANY, FOR COORDINATION.

EROSION AND SEDIMENT CONTROL

LAND DISTURBANCE AREAS LESS THAN ONE ACRE AND NOT PART OF A LARGER COMMON PLAN DEVELOPMENT ARE NOT REQUIRED TO SUBMIT TO THE CITY OF COLUMBUS A FULL SCALE EROSION AND SEDIMENT CONTROL PLAN APPROVAL. HOWEVER, THE PROPOSED LAND DISTURBING ACTIVITIES MUST COMPLY WITH ALL OF THE PROVISIONS OF THE DIVISION OF SEWERAGE AND DRAINAGE EROSION AND SEDIMENT CONTROL REGULATION. ALL LAND DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SITE INVESTIGATION BY THE CITY OF COLUMBUS TO DETERMINE COMPLIANCE WITH CITY STANDARDS AND REGULATIONS. FAILURE TO COMPLY WITH THESE REGULATIONS MAY SUBJECT THE SITE TO ENFORCEMENT ACTION BY THE CITY. QUESTIONS REGARDING EROSION AND SEDIMENT CONTROL MAY BE REFERRED TO THE STORMWATER MANAGEMENT OFFICE AT (614) 645-6311. SITE CONTACT – RYAN BOLLO – (614) 645-3946.

STREET CLEANING (ON AN AS-NEEDED BASIS) IS REQUIRED THROUGH THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING AND (IF NECESSARY) MANUAL REMOVAL OF DIRT OR MUD IN THE STREET GUTTERS.

DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS. THE CONTRACTOR WILL BE HELD LIABLE FOR THE VIOLATION AND SUBSEQUENT FINES.

THE USE OF STRAW WATTLES HAS PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE. ADDITIONALLY, THE USE OF COMPOST FILTER SOCKS AND COMPOST BLANKETS ARE GAINING WIDER ACCEPTANCE NATIONWIDE. THEY ARE NOW APPROVED FOR USE ON ALL COLUMBUS SWP3 PLANS AND CONSTRUCTION SITES.

WATER QUALITY PROTECTION

NO TOXIC OR HAZARDOUS MATERIALS SUCH AS SEALANTS, SOLVENTS, CLEANING AGENTS, WASTE-WATER, FUELS OR DEBRIS OF ANY KIND SHALL BE DISCHARGED TO ANY STREAMS, DRAINAGE COURSES, OR BODIES OF WATER. NO DEBRIS SHALL BE PLACED WITHIN THE 100-YEAR FLOODPLAIN BOUNDARY OF ANY WATERCOURSE.

THE CONTRACTOR SHALL TAKE GREAT CARE TO MINIMIZE THE POTENTIAL TO CONTAMINATE THE PUBLIC DRINKING WATER SUPPLY. ALL PROJECT RELATED REFUELING AND MAINTENANCE ACTIVITIES SHALL BE PERFORMED IN AN ENVIRONMENTALLY RESPONSIBLE MANNER.

THE CONTRACTOR SHALL TAKE THE APPROPRIATE ACTIONS IN THE EVENT OF A RELEASE AND WILL BE HELD RESPONSIBLE FOR THE CLEAN UP AND REMEDIATION OF ANY AND ALL SPILLS.

CITY OF GAHANNA FIBER

FOR WORK LOCATIONS INVOLVING THE CONNECTION TO CITY OF GAHANNA FACILITIES THE CONTRACTOR SHALL COORDINATE WORK WITH GAHANNA AT LEAST TWO WEEKS PRIOR TO START OF WORK. THE CONTRACTOR SHALL REQUEST INSTALLATION INSTRUCTION INCLUDING, BUT NOT LIMITED TO: APPROPRIATE GAHANNA PULL BOX AND/OR AERIAL SPLICE ENCLOSURE TO CONNECT TO, CONSTRUCTION METHOD AND DEPTH OF ENTRY POINT OF PULL BOX, AND SPLICE ENCLOSURE AND SLACK STORAGE MOUNTING WITHIN GAHANNA PULL BOX OR AERIAL SPAN.

THE CONTRACTOR WILL BE REQUIRED TO EXTEND THE PROPOSED CTSS FIBER LATERAL AND LOCATING WIRE TO THE PROPOSED SPLICE POINT AND PROVIDE 75' OF CABLE SLACK TO ALLOW FOR SPLICING INTO THE CITY'S FIBER OPTIC NETWORK. AT NO TIME SHOULD THE CITY'S FIBER BE DISTURBED OR ANY SPLICE ENCLOSURES BE ACCESSED DURING THIS PROCESS. ONCE ALL LATERAL CONSTRUCTION IS COMPLETE, THE CONTRACTOR MUST NOTIFY THE CITY DEPARTMENT OF PUBLIC SERVICE AND THE CITY WILL SCHEDULE THE SPLICE(S) TO BE PERFORMED. THE APPLICANT WILL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE PRIVATE LATERAL AND ALL SPLICING WORK NEEDED TO CONNECT TO THE CITY'S FIBER OPTIC NETWORK.

ADDITIONAL PERMITS MAY BE REQUIRED WHEN WORKING WITHIN CITY OF GAHANNA RIGHT-OF-WAY. CONTACT GAHANNA DEPARTMENT OF PUBLIC SERVICE TO REQUEST A RIGHT-OF-WAY APPLICATION. THE WORK TO EXTEND THE CTSS FIBER LATERAL TO THE PROPOSED SPLICE LOCATION WILL REQUIRE INSPECTION. PLEASE CALL THE PUBLIC SERVICE DEPARTMENT 24 HOURS IN ADVANCE OF WORK TO SCHEDULE AN INSPECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS INCURRED AS PART OF THE INSPECTION PROCESS.

CONTACT INFORMATION:

GAHANNA DEPARTMENT OF PUBLIC SERVICE
200 SOUTH HAMILTON RD.
GAHANNA, OHIO 43230
(614) 342-4005.

CONTINGENT QUANTITIES

THE PAY ITEM QUANTITIES IN THE FOLLOWING TABLE (TO BE COMPLETED DURING LATER SUBMITTAL) ARE CARRIED TO THE GENERAL SUMMARY AND ARE TO BE PERFORMED ONLY AT THE DIRECTION OF THE ENGINEER.

QUANTITY	ITEM	UNIT	DESCRIPTION
400	202	FT	CURB AND GUTTER REMOVED
600	202	FT	CURB REMOVED
2,000	202	FT	EXISTING CONDUIT CLEANED, AS PER PLAN
400	202	SF	WALK REMOVED
1	207	LS	ESC/SWP3, AS PER PLAN
4	608	EACH	CURB RAMP
10	608	EACH	DETECTABLE WARNING, TYPE E
400	608	SF	4" CONCRETE WALK
400	608	SF	8" CONCRETE WALK
200	609	FT	COMBINATION CURB AND GUTTER, TYPE STANDARD
200	609	FT	COMBINATION CURB AND GUTTER, TYPE SPECIAL 8"
200	609	FT	CURB, STRAIGHT 18"
100	622	FT	BARRIER, MISC.: MEDIAN BARRIER WALL
900	625	FT	CONDUIT, 2", AS PER PLAN
5,000	625	FT	CONDUIT, 4", AS PER PLAN
650	625	FT	CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN
1,000	625	FT	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN
500	625	FT	CONDUIT, MISC.: CONDUIT REPAIR
300	625	FT	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE
400	625	FT	NO. 6 AWG 600 VOLT DISTRIBUTION CABLE
5	625	EACH	PULL BOX, 18", AS PER PLAN
4	625	EACH	PULL BOX, 32", AS PER PLAN
2	625	EACH	PULL BOX, 48", AS PER PLAN
20	625	EACH	PULL BOX, MISC.: PULL BOX REPAIRED
2,000	625	FT	TRENCH, 36" DEEP, AS PER PLAN
500	625	FT	TRENCH IN PAVED AREA, AS PER PLAN
4	632	EACH	DOWN GUY
3,000	632	FT	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND
2,000	632	FT	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND
6	632	EACH	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 144 FIBER
5	632	EACH	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER
2	632	EACH	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 FIBER
10	632	EACH	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE
18	632	EACH	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE
2	632	EACH	INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU
2,000	632	FT	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES
200	632	FT	SIGNALIZATION, MISC.: CAT 5E CABLE, OUTDOOR RATED
200	632	FT	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE
2	632	EACH	SIGNALIZATION, MISC.: CELLULAR ETHERNET COMMUNICATIONS UNIT
5	632	EACH	WOOD POLE, CLASS 5, 35 FT
40	633	EACH	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE
20	633	EACH	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH
2	633	EACH	CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH
5	633	EACH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER
5	633	EACH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN

FRANKLIN COUNTY

THE CONTRACTOR SHALL SECURE A WRITTEN PERMIT FROM THE FRANKLIN COUNTY ENGINEER'S OFFICE, 970 DUBLIN RD, A MINIMUM OF TWO WORKING DAYS PRIOR TO BEGINNING WORK WITHIN FRANKLIN COUNTY R/W. THE CONTRACTOR MAY BE REQUIRED TO POST A BOND WITH THE FRANKLIN COUNTY ENGINEER PRIOR TO ISSUANCE OF THE PERMIT TO INSURE PROPER RESTORATION OF THE PAVEMENT AND R/W. THE CONTRACTOR SHALL PROVIDE THE FRANKLIN COUNTY ENGINEER'S OFFICE A 24-HOUR TELEPHONE NUMBER TO BE USED IN CASE OF AN EMERGENCY.

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CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

RED LIGHT CAMERA SITES

FOR WORK LOCATIONS IN THE VICINITY OF EXISTING RED LIGHT CAMERAS THE CONTRACTOR SHALL COORDINATE WORK WITH REDFLEX GROUP AT LEAST TWO WEEKS PRIOR TO THE START OF WORK. IN ADDITION, POTENTIAL IMPACTS TO THE RED LIGHT CAMERA EQUIPMENT SYSTEM MUST BE IDENTIFIED AND IF REQUIRED, A PLAN TO REMEDY MUST BE AGREED UPON BETWEEN THE CONTRACTOR AND REDFLEX GROUP PRIOR TO START OF WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO ANY WORK REGARDING THESE FACILITIES.

WORK AND MATERIALS REQUIRED TO RESTORE ANY IMPACTED RED LIGHT CAMERA SITES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. COSTS ASSOCIATED WITH THESE REPAIRS WILL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR. REDFLEX GROUP MAY INSPECT WORK PERFORMED BY THE CONTRACTOR AND WILL MAKE THE ULTIMATE DECISION WHETHER TO APPROVE OR DISAPPROVE THE WORK.

CONTACT INFORMATION:

ON-SITE CONTACT: CAITLIN KOWALSKI
PHONE: (312) 502-4273
FAX: (312) 327-1925
EMAIL: ckowalski@redflex.com

OR: WILLIAM BOUNDS
PHONE: (312) 327-1920
MOBILE: (773) 326-8816
FAX: (312) 327-1925
EMAIL: wbounds.ch@redflex.com

TRENCH IN ROCK

TRENCH IN ROCK WILL BE PERFORMED AT THE DIRECTION OF THE ENGINEER. FOR ANY INSTANCE WHERE THIS WORK IS PERFORMED, THE COST FOR TRENCHING IN ROCK SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM 625 TRENCH, 36" DEEP, AS PER PLAN.

IT IS ANTICIPATED THAT APPROXIMATELY 2%, OR 1200 FT OF TRENCHING WILL BE LOCATED IN ROCK.

JACKING OR DRILLING IN ROCK

JACKING OR DRILLING IN ROCK WILL BE PERFORMED AT THE DIRECTION OF THE ENGINEER. FOR ANY INSTANCE WHERE JACKING OR DRILLING IN ROCK WORK IS PERFORMED, THE COST FOR JACKING OR DRILLING IN ROCK SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM 625 CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN AND ITEM 625 CONDUIT, JACKED OR DRILLED, 4", AS PER PLAN.

IT IS ANTICIPATED THAT APPROXIMATELY 2%, OR 500 FT OF JACKING OR DRILLING WILL BE LOCATED IN ROCK.

BRACKET ATTACHMENT LOCATIONS

INT ID#	INTERSECTION	EXISTING POLE COLOR	DEVICE
1046	BROAD ST. AT HAGUE AVE.	GALVANIZED	CCTV
1016	CENTRAL AVE. AT MOUND ST.	GALVANIZED	CCTV
4136	FISHER RD. AT WILSON RD.	GALVZNIZED	CCTV
SIG4035	BROWN RD. AT HOPKINS AVE.	GALVANIZED	RADIO
2182	HIGH ST. AT RATHMELL RD.	GALVANIZED	CCTV
2194	HAMILTON RD. AT WINCHESTER PIKE	GALVANIZED	RADIO

CONTRACTOR ACCESS TO EXISTING CONTROL CABINET

WHEN THE CONTRACTOR REQUIRES ENTRANCE TO AN EXISTING CONTROL CABINET, CONTRACTOR MUST PROVIDE THE ENGINEER WITH A MINIMUM NOTICE OF THREE (3) WORK DAYS. A REPRESENTATIVE FROM THE DIVISION OF PLANNING AND OPERATIONS SHALL BE PRESENT ANYTIME THE CONTRACTOR REQUIRES ENTRY INTO AN EXISTING CITY OF COLUMBUS CONTROL CABINET TO PERFORM ANY WORK. THE CONTRACTOR SHALL CONTACT (614) 645-7933 TO MAKE ARRANGEMENTS. THE REPRESENTATIVE SHALL ACT IN A SUPERVISORY AND/OR INFORMATIONAL CAPACITY ONLY UNLESS OTHERWISE STATED IN THESE PLANS. EXISTING CABINET WIRING THAT WAS PREVIOUSLY DISCONNECTED BY THIS DIVISION SHALL BE CONNECTED BY THIS DIVISION IF CONNECTION IS REQUIRED FOR PROPER OPERATION OF THE TRAFFIC SIGNAL. ALL CONTRACTOR INSTALLED CABLE SHALL BE CONNECTED BY THE CONTRACTOR BUT OVERSEEN BY THE DIVISION'S REPRESENTATIVE. THERE IS NO CHARGE FOR THIS REPRESENTATIVE BETWEEN THE HOURS OF 8AM AND 3PM, MONDAY THROUGH FRIDAY. PRIOR TO OR AFTER THESE HOURS AND ON SATURDAYS THE HOURLY CHARGE IS $30 WITH A MINIMUM CHARGE OF $120 ON SATURDAY. SUNDAY HOURLY CHARGE IS $40 WITH A MINIMUM CHARGE OF $160.

DRAINAGE

D100 – STORMWATER FACILITIES: BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE OWNER, THE ENGINEER AND THE CONTRACTOR SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. THE ENGINEER SHALL KEEP RECORDS OF THE INSPECTION IN WRITING.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED OR RECONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE OWNER. ALL EXISTING MANHOLES, CATCH BASINS, DRAINS, SEWERS, AND APPURTENANCES INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLE COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR SHALL CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS TO THE SATISFACTION OF THE ENGINEER. THE ABOVE IS NOT APPLICABLE FOR STRUCTURES TO BE ABANDONED. THE CONTRACTOR SHALL REMOVE DEBRIS, SILT, ETC. FROM THE EXISTING MANHOLES AND CATCH BASINS THAT HAVE BEEN AFFECTED BY CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL MAINTAIN SERVICE IN EXISTING SEWERS DURING CONSTRUCTION.

D101 – EXISTING DRAINAGE SYSTEMS: EXISTING DRAINAGE SYSTEMS (FIELD TILES, ROOF IN OUTLETS, SUMP PUMPS, ETC.) ENCOUNTERED DURING CONSTRUCTION OF THE NEW STORM WERE OR REMOVAL OF EXISTING STORM SEWERS SHALL BE EXTENDED AS NECESSARY AND BLIND TAPPED TO THE NEW STORM SEWER PER DIVISION OF SEWERAGE AND DRAINAGE STANDARD DRAWING AA-S159 OR CONNECTED TO THE CATCH BASIN AS DIRECTED BY THE ENGINEER. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CMSC ITEM 901.

IF THE CONTRACTOR ENCOUNTERS A PIPE OR CONNECTION TO THE STORM SEWER THAT IN THE ESTIMATE OF THE ENGINEER MAY BE AN ILLICIT CONNECTION FROM AN ON-SITE SEWAGE DISPOSAL SYSTEM, COLUMBUS PUBLIC HEALTH SHALL BE CONTACTED AT 645-6448 TO DETERMINE WHETHER THE PIPE MAY BE RECONNECTED TO THE CITY'S STORM SEWER SYSTEM.

D102 – STORM STRUCTURE ADJUSTMENT: THE CONTRACTOR SHALL FIELD VERIFY THE TOP OF CASTING ELEVATION OF ALL NEW STORMWATER STRUCTURES. IF PRECAST STRUCTURES ARE UTILIZED, THE TOP 6 INCHES MINIMUM SHALL BE FIELD PLACED EITHER WITH GRADE RINGS OR BRICK AND MORTAR TO ALLOW FOR FIELD ADJUSTMENT. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPLICABLE CMSC ITEM 604.

IF THE ENGINEER DETERMINES THAT AN INLET IS TOO LOW/HIGH AFTER IT HAS BEEN PLACED AND ROUGH GRADING PERFORMED, THE CONTRACTOR SHALL ADJUST THE INLET AS DIRECTED BY THE ENGINEER AND REGRADE THE AREA ACCORDINGLY. FOR ADJUSTMENTS OF+/- 6 INCHES, THE COST TO ADJUST THE INLET SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPLICABLE CMSC ITEM 604. FOR ADJUSTMENTS GREATER THAN +/- 6 INCHES, THE COST TO ADJUST THE INLET SHALL BE PAID FOR IN THE UNIT PRICE BID FOR CMSC ITEM SPECIAL – INLET ADJUSTED, AS DIRECTED BY ENGINEER, AND SHALL CONSTITUTE FULL PAYMENT FOR ADJUSTING THE INLET INCLUDING GRADE RINGS, CONCRETE SAWING, MORTAR, EXCAVATION, BACKFILL, REGRADING, ETC.

PAVEMENT CUTTING, SAWING AND EXCAVATION OPERATIONS

ALL PUBLIC AGENCIES AND PRIVATE CONTRACTORS PERFORMING PAVEMENT-CUTTING OPERATIONS ON CITY OF COLUMBUS STREETS AND ROADWAYS SHALL PROTECT THE ENVIRONMENT FROM DISCHARGES CREATED BY THEIR PAVEMENT CUTTING OPERATIONS. NOTE THAT COLUMBUS CITY CODE 1145 PROHIBITS NON-STORMWATER DISCHARGE INTO THE CITY OF COLUMBUS SEWER SYSTEM, CURB INLETS AND ANY PART OF ITS MS4 (MUNICIPAL SEPARATE STORM SEWER SYSTEM).

THE REQUIREMENT INCLUDES BUT IS NOT LIMITED TO WET OR DRY SAW-CUTTING, JACK HAMMERING, EXCAVATION EQUIPMENT USE, ETC. THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR WORK CREWS SHALL RECOVER AND DISPOSE OF DETRITUS, POLLUTED WATERS, OR OTHER SUCH DISCHARGES RESULTING FROM THEIR PAVEMENT CUTTING OPERATIONS AND PROTECT ALL STORM SEWER INLETS FROM RECEIVING ANY DISCHARGES FROM THE CONSTRUCTION OPERATIONS . THE AGENCY OR CONTRACTOR RESPONSIBLE FOR EACH PAVEMENT CUTTING ACTIVITY SHALL BE SOLELY LIABLE FOR NOTICE OF VIOLATIONS (NOV/S) AND FINES ISSUED BY CITY OF COLUMBUS AND/OR STATE OF OHIO AUTHORITIES.

EQUIPMENT, MATERIALS AND METHODS SHALL BE PROVIDED BY THE RESPONSIBLE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR TO WORK CREWS PERFORMING THE PAVEMENT CUTTING ACTIVITY AND MADE AVAILABLE TO WORK CREWS FOR USE IN CLEANING UP DISCHARGES RESULTING FROM SUCH CUTTING ACTIVITIES AND PREVENTING RUNOFF. ALL WORK CREWS SHALL BE TRAINED TO EXERCISE AND EMPLOY EQUIPMENT, MATERIALS, AND ENVIRONMENTAL PROTECTIVE MEASURES TO PREVENT POLLUTED DISCHARGES FROM ENTERING THE CITY OF COLUMBUS STORM SEWER SYSTEM AND WATERS OF THE STATE OF OHIO.

THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING THAT THE INLET PROTECTION IS ADEQUATE. THE MOST STRINGENT PROJECT PLANS, NOTES AND/OR DRAWINGS INCLUDING STORMWATER POLLUTION PREVENTION PLAN (SWP3)OR SPILL PREVENTION/REMEDIATION PLAN SHALL APPLY TO ALL PAVEMENT CUTTING, SAWING OR EXCAVATION OPERATIONS.

NOTE TO SPECIFICATION WRITERS: IF SWP3 OR SPILL PREVENTION/REMEDIATION PLANS ARE INCLUDED IN CONTRACT DOCUMENTS, THEY SHOULD BE CITED IN THE LAST PARAGRAPH ABOVE BY VOLUME, PAGE OR SHEET NUMBERS; SO DIRECTING THE READER TO SUCH PLAN.

FULL WIDTH PAVEMENT REPAIR

AT LOCATIONS WHERE TRENCHING IN PAVED AREA FOR DISTANCES GREATER THAN 100FT THE CONTRACTOR SHALL REPLACE THE SURFACE COURSE FOR THE FULL WIDTH OF THE LANE IN WHICH THE TRENCH HAS BEEN CONSTRUCTED.

THIS CONDITION APPLIES TO THE FOLLOWING LOCATION:
HAGUE AVE STA. 1068+75 TO 1071+50 (SHEET 189)

SEPARATE BID ITEMS HAVE BEEN PROVIDED IN THE DETAILS OF THE PLANS AND CARRIED TO THE GENERAL SUMMARY FOR PAVING ITEMS.
REFER TO COLUMBUS STANDARD DRAWING 1441 FOR DETAILS.

	LOCATION		LENGTH	WIDTH	ITEM 254, PAVEMENT PLANING, 1-1/4" DEEP	ITEM 407, TACK COAT	ITEM 448, ASPHALT CONCRETE SURFACE COURSE, MEDIUM TRAFFIC, PG70-22M, APP
	FROM	TO	FT	FT	SY	GAL	CY
HAGUE AVE	1068+75	1071+50	275	11	337	26	12
FROM TOTAL					337	26	12

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ITEM 614 – MAINTAINING TRAFFIC, LUMP SUM AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ITEM 614 MAINTAINING TRAFFIC, THE FOLLOWING REQUIREMENTS SHALL ALSO APPLY:

TEMPORARY TRAFFIC CONTROL ITEMS

1. ALL TEMPORARY TRAFFIC CONTROL (TTC) DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (CURRENT EDITION). COPIES ARE AVAILABLE FROM THE OHIO DEPARTMENT OF TRANSPORTATION, OFFICE OF CONTRACTS, 1980 WEST BROAD STREET, COLUMBUS, OHIO 43216. NOTE: ALL DEVICES SHALL COMPLY, FOR CONDITION AND LOCATION, WITH THE CURRENT EDITION OF THE NCHRP 350 CRASH TESTING GUIDELINES.
2. CONSTRUCTION OPERATIONS SHALL NOT BEGIN UNTIL ALL TRAFFIC CONTROL IS IN PLACE AND APPROVED BY THE DIVISION OF DESIGN AND CONSTRUCTION INSPECTOR. IF THE CONTRACTOR DOES NOT COMPLY WITH THE STANDARDS, INCLUDING THE INSTALLATION OF TEMPORARY PAVEMENT MARKINGS AND THE REMOVAL OF CONFLICTING TRAFFIC CONTROLS, THEIR PERMIT SHALL BE REVOKED AND ALL WORK SHALL BE TERMINATED. TEMPORARY PAVEMENT MARKINGS TO INCLUDE, BUT NOT BE LIMITED TO, CHANNELIZING LINES, EDGE LINES, AND CENTERLINES SHALL BE INSTALLED AND MAINTAINED ON ALL CONSTRUCTION OPERATIONS LASTING A MINIMUM OF 14 CALENDAR DAYS OR AS DIRECTED BY THE TEMPORARY TRAFFIC CONTROL COORDINATOR OR THE PROJECT ENGINEER.
3. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE INSTALLED A MINIMUM OF 7 DAYS PRIOR TO CLOSURE OF A ROADWAY. THE MESSAGE SHALL ADVISE THE MOTORIST OF THE DATES, TIMES, AND DURATION OF THE CLOSURE. THE PCMS SHALL REMAIN IN PLACE FOR 7 DAYS AFTER THE START OF THE CLOSURE.
4. THE CONTRACTOR SHALL GIVE ADVANCED NOTIFICATION (WRITTEN AND VERBALLY) TO THE TEMPORARY TRAFFIC CONTROL COORDINATOR AT (614) 645–6269 OR (614) 645–5845, THE COLUMBUS PAVING THE WAY PROGRAM COORDINATOR AT (614) 645–7283 OR (614) 645–6016, AND THE PROJECT MANAGER, INFORMING THEM OF ALL UPCOMING TRAFFIC PATTERN CHANGES. NOTIFICATION SHALL INCLUDE, BUT NOT BE LIMITED TO, WHAT, WHERE, WHEN, AND HOW PEDESTRIAN AND VEHICULAR TRAFFIC WILL BE AFFECTED, AND THE TEMPORARY TRAFFIC CONTROL PROCEDURES THE CONTRACTOR IS PLANNING TO USE. THE TYPE OF TRAFFIC CHANGE SHALL DETERMINE THE LENGTH OF ADVANCE NOTIFICATION REQUIRED:

TYPE OF CHANGE	ADVANCE NOTIFICATION NEEDED
DETOURS/ROAD CLOSURES	30–DAY NOTIFICATION PRIOR TO CLOSURE.
LANE CLOSURES LASTING 2 WEEKS OR MORE	2–WEEKS
LANE CLOSURES OF LESS THAN 2 WEEKS	3–DAYS
LANE CLOSURES OF 2 DAYS OR LESS	1–DAY

ANY OTHER UNFORESEEN IMPACTS TO TRAFFIC SHALL BE IMMEDIATELY REPORTED AS THEY OCCUR.

5. A TTC PLAN (TTCP) INCLUDING PEDESTRIAN CONTROL SHALL BE SUBMITTED TO THE TTC COORDINATOR AT (614) 645–6269 OR (614) 645–5845 AT THE PRE–CONSTRUCTION MEETING OR A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO BEGINNING WORK. COPIES OF THE APPROVED TTCP SHALL BE GIVEN TO THE PROJECT ENGINEER AND KEPT ON SITE ALONG WITH THE STREET CLOSURE/OCCUPANCY PERMIT.
6. TYPE C STEADY–BURN OR TYPE D 360–DEGREE STEADY–BURN WARNING LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT. ONLY 42 REFLECTORIZED CHANNELIZING DEVICES (DRUMS) SHALL BE PERMITTED FOR NIGHTTIME WORK WITH THE APPROVAL OF THE TTC COORDINATOR AT (614) 645–6269 OR (614) 645–5845 PER O.D.O.T. STANDARDS.
7. A FLASHING ARROW PANEL (48" X 96"–TYPE C) SHALL BE USED IN LANE CLOSURES AS PER THE OHIO MANUAL.
8. ALL TRENCHES WITHIN THE ROAD RIGHT–OF–WAY SHALL BE BACKFILLED OR SECURELY PLATED PER (CITY OF COLUMBUS GENERAL POLICY ON STEEL PLATE USAGE DATED 11/15/2006 AND 2007 STD. DWG. 1441) DURING NON–WORKING HOURS.
9. ACCESS FOR PEDESTRIAN AND VEHICULAR TRAFFIC TO ALL ADJOINING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
11. ALL TRAFFIC LANES SHALL BE FULLY OPEN TO TRAFFIC FROM 6:00 AM TO 9:00 AM AND 4:00 PM AND TO 6:00 PM, OR 5:00 AM TO 9:00 AND 3:00 PM TO 7:00 PM WITHIN THE COLUMBUS BUSINESS DISTRICT (CBD) PARKING AREA, MONDAY THROUGH FRIDAY. TRAFFIC LANE CLOSURE(S) ARE PERMITTED DURING WORKING HOURS ON ONLY THOSE STREET IDENTIFIED ON THE MAINTENANCE OF TRAFFIC TABLE SHEETS 28 THRU 30.
14. TWO–WAY, ONE–LANE TRAFFIC MAY BE MAINTAINED DURING CONSTRUCTION OPERATIONS ON ONLY THOSE STREET IDENTIFIED ON THE MAINTENANCE OF TRAFFIC TABLE, PER FIGURE 6H–10 (TA–10) OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND SAFE MOVEMENT OF PEDESTRIANS THROUGH, AROUND, OR DETOURED AWAY FROM THE CONSTRUCTION SITE. TRAFFIC CONTROL FOR PEDESTRIAN MOVEMENT SHALL BE AS PER FIGURE 6H–28 (TA–28) AND 6H–29 (TA–29) OF PART IV OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ALL SIDEWALK DIVERSIONS AND TEMPORARY MID–BLOCK CROSSINGS SHALL BE PRE–APPROVED BY THE PROJECT ENGINEER OR THE TEMPORARY TRAFFIC CONTROL COORDINATOR.
18. THE DEPARTMENT OF PUBLIC SERVICE, DIVISION OF PLANNING AND OPERATIONS WILL REMOVE OR COVER ALL PARKING METER HEADS PUT OUT OF SERVICE BY THIS PROJECT. THERE IS A $60.00 DOLLAR CHARGE FOR THE REMOVAL AND REINSTALLATION OF EACH METER. IN ADDITION, A DAILY METER FEE WILL BE CHARGED FOR ALL ENFORCEMENT HOURS FOR EACH METER TAKEN OUT OF SERVICE. THESE CHARGES WILL BE COLLECTED FROM THE CONTRACTOR IN ADVANCE WITH THE ISSUANCE OF THE STREET OCCUPANCY/EXCAVATION PERMIT FROM THE DIVISION OF PLANNING AND OPERATIONS' PERMIT OFFICE (614) 645–7497. THE PROJECT ENGINEER SHALL BE NOTIFIED A MINIMUM OF FORTY–EIGHT (48) HOURS (EXCLUDING SAT, SUN, & HOLIDAYS) PRIOR TO BEGINNING WORK.
19. TEMPORARY "EMERGENCY NO PARKING" SIGNS SHALL BE INSTALLED AT 50' C/C MINIMUM BY USE OF EXISTING SIGN POSTS AND/OR DRUMS AND REMOVED BY THE CONTRACTOR IN AREAS WITH NO PARKING METERS. THE SIGNS SHALL HAVE THE INSTALLATION DATE, WORKING DATES, AND HOURS OF RESTRICTION SHOWN ON EACH SIGN. THESE SIGNS MAY BE OBTAINED FROM THE DIVISION OF PLANNING AND OPERATIONS' PERMIT OFFICE. THE POLICE DIVISION REQUIRES THE "EMERGENCY NO PARKING" SIGNS BE POSTED A MINIMUM OF SEVENTY–TWO (72) HOURS PRIOR TO ANY VEHICLES BEING TOWED. WITHIN TWENTY–FOUR (24) HOURS OF POSTING, THE CONTRACTOR SHALL SUPPLY THE DIVISION OF DESIGN AND CONSTRUCTION WITH A WRITTEN RECORD OF POSTED LOCATIONS (FAX: (614) 645–3298).
20. TRAFFIC OPERATIONS' PERSONNEL SHALL LOCATE AND MARK ALL UNDERGROUND TRAFFIC CONTROL CABLES. THE TRAFFIC OPERATIONS SHOP SHALL BE NOTIFIED AT (614) 645–7393 (FAX: (614) 645–5967) AT LEAST FORTY–EIGHT (48) HOURS (EXCLUDING SAT. & SUN.) PRIOR TO THE BEGINNING OF ANY WORK WITHIN 450 FEET OF ANY SIGNALIZED INTERSECTION(S) OR WITHIN ANY POSTED AREA WHERE THE DIVISION HAS UNDERGROUND CABLE. THE SIGNAL OPERATION ENGINEER (645–6418) SHALL BE NOTIFIED SIX (6) WEEKS IN ADVANCE FOR SIGNAL REVISIONS OR POLE RELOCATIONS.
21. NO EXCAVATION SHALL BE MADE WITHIN FIVE (5) FEET OF ANY FOUNDATION THAT SUPPORTS SIGNAL POLES, TRAFFIC SIGNAL DISPLAYS OR SIGNS BY MAST ARM OR SIGNAL SPAN. EXCAVATION WITHIN EIGHT (8) FEET, BUT MORE THAN FIVE (5) FEET SHALL REQUIRE ADDITIONAL SUPPORT (DOWN GUY, HEAD GUY, BASE GUY, ETC.). THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER AT LEAST FORTY–EIGHT (48) HOURS (EXCLUDING SAT. & SUN.) PRIOR TO THE BEGINNING OF SUCH EXCAVATION SO THAT THE CITY CAN APPROVE THE STABILIZATION SETUP BY THE CONTRACTOR. STABILIZATION SHALL BE APPROVED BY THE ENGINEER AND WILL BE DONE BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
22. WHEN ANY TRAFFIC CONTROL DEVICE, CONDUIT, OR CABLE IS DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER. IF UNABLE TO CONTACT THE ENGINEER CALL (614) 645–7393.
23. THE ROADWAY SHALL NOT BE OPENED TO NON–CONSTRUCTION TRAFFIC UNTIL THE CRITICAL PERMANENT TRAFFIC CONTROLS ARE IN PLACE, OR UNTIL TEMPORARY TRAFFIC CONTROLS APPROVED BY THE ENGINEER, ARE INSTALLED. THE CRITICAL PERMANENT TRAFFIC CONTROLS ARE STOP, YIELD, ONE WAY, DO NOT ENTER AND RESTRICTED TURN SIGNS. OTHER CRITICAL SIGNS MAY BE NOTED ON THE PLANS AS WELL. THE CONTRACTOR ASSUMES ALL LIABILITY FOR THE PREMATURE REMOVAL OF TEMPORARY TRAFFIC CONTROLS.
24. THE ROADWAY OR ANY SECTION OF ROADWAY SHALL NOT BE OPENED TO NON–CONSTRUCTION TRAFFIC UNTIL ALL TEMPORARY, NON–REFLECTIVE, BLACKOUT TAPE HAS BEEN COMPLETELY REMOVED FROM NON–CONFLICTING PERMANENT PAVEMENT MARKINGS FOR THAT AREA OF THE ROADWAY, OR UNLESS OTHERWISE DIRECTED IN WRITING BY THE ENGINEER. THIS IS SUPPLEMENTAL TO CMS–614.11–F, AND SHALL BE PAID FOR THROUGH THE (614) LUMP SUM.
25. THE CONTRACTOR SHALL MAINTAIN ALL PERMANENT TRAFFIC CONTROLS NOT IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROLS THROUGHOUT THIS PROJECT. PERMANENT TRAFFIC CONTROLS MAY BE TEMPORARILY RELOCATED OR COVERED, AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR MISSING, DAMAGED, OR IMPROPERLY PLACED SIGNS.
26. ANY WORK DONE BY THE DIVISION OF PLANNING AND OPERATIONS, INCLUDING INSTALLATION, RELOCATION, REMOVAL AND/OR REPLACEMENT OF TEMPORARY TRAFFIC CONTROL DEVICES AS A RESULT OF WORK DONE BY THE CONTRACTOR OR AS A RESULT OF NEGLIGENCE OF THE CONTRACTOR, SHALL BE AT THE CONTRACTORS' EXPENSE.
27. WHENEVER YELLOW CENTERLINES OR TURN–LANE LINES ARE PAVED OVER, REMOVED, OR OTHERWISE UNSERVICEABLE, THE CONTRACTOR SHALL INSTALL CLASS II TEMPORARY STRIPING (MINIMUM 4' LONG SEGMENTS). TEMPORARY PAINT SHALL BE USED ON ALL MILLED SURFACES. TEMPORARY TAPE SHALL BE USED ON ALL FINAL COURSES OF ASPHALT. PAINT OR TAPE MAY BE USED ON INTERMEDIATE COURSES OF ASPHALT. IF APPROVED BY THE ENGINEER, DRUMS WITH STEADY BURNING TYPE C OR TYPE D 360 DEGREE WARNING LIGHTS AND KEEP RIGHT SIGNS MAY BE SUBSTITUTED FOR CENTERLINE MARKINGS.
28. CLASS II TEMPORARY STRIPING (MINIMUM 4' LONG SEGMENTS) SHALL BE AS PER ITEM 614 – WORK ZONE PAVEMENT MARKING AND SHALL BE PLACED WITHIN ONE (1) FOOT LONGITUDINAL TOLERANCE OF THE PERMANENT STRIPE(S). ALL TEMPORARY STRIPING NOT TO WITHIN ONE (1) FOOT TOLERANCE SHALL BE REMOVED AND REPLACED IN THE PROPER LOCATION BY THE CONTRACTOR. CLASS II TEMPORARY STRIPING SHALL BE OF THE APPROPRIATE COLOR AND SPACED A MAXIMUM OF FORTY (40) FEET CENTER TO CENTER.
29. ALL COSTS THAT CONSIST OF MAINTAINING AND PROTECTING VEHICULAR AND PEDESTRIAN TRAFFIC ACCORDING TO THE LATEST EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), AND PER THE REQUIREMENTS DESIGNATED IN THE PLAN INCLUDING ALL LAW ENFORCEMENT OFFICER (LEO) AND FLAGGER HOURS SHALL BE INCLUDED IN THE LUMP SUM, ITEM 614.

IN ADDITION TO THE REQUIREMENTS HEREIN, AND THE LATEST EDITION OF THE OMUTCD, A UNIFORMED LAW ENFORCEMENT OFFICER (LEO) SHALL BE PROVIDED FOR CONTROLLING TRAFFIC UNDER THE FOLLOWING CONDITIONS:

- WORK WITHIN A SIGNALIZED INTERSECTION, DEFINED AS THE AREA BOUNDED BY THE REAR X–WALK LINES
- WHEN FLAGGING WITHIN THE INTERSECTION OF TWO ARTERIAL ROADWAYS
- WHEN SPECIFIED IN THE MAINTENANCE OF TRAFFIC PLAN OR AS DIRECTED BY THE PROJECT ENGINEER
- WORK ON MAINLINE LANES OF TRAVEL ON INTERSTATES AND STATE ROUTES (FREEWAYS)
- ANY ENTRANCE OR EXIT RAMPS
- ANY OTHER SITUATION THE CONTRACTOR DEEMS NECESSARY FOR THE SAFETY OF ITS EMPLOYEES OR THE PUBLIC

A FLAGGER SHALL BE UTILIZED TO ASSIST IN CONTROLLING TRAFFIC WHILE EQUIPMENT IS ENTERING OR EXITING AN INTERSECTION OR WORK ZONE. THE CONTRACTOR MAY UTILIZE HIS OWN FLAGGER OR LEO UNDER ITEM 614 MAINTAINING TRAFFIC, LUMP SUM.

FLAGGERS AND LEOS SHALL BE EQUIPPED ACCORDING TO THE STANDARDS FOR FLAGGING TRAFFIC CONTAINED IN THE OMUTCD. FLAGGING OPERATIONS PERFORMED BY LEO'S OR DESIGNATED FLAGGERS SHALL ONLY BE PERMITTED AS LONG AS ALL TRAFFIC CONTROL IS IN PLACE ACCORDING TO FIGURE 6H–10 (TA–10) IN THE OMUTCD.

IF THE CONTRACTOR WISHES TO UTILIZE LEO'S FOR TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED IN THE PLANS, THEY MAY DO SO AT THEIR OWN EXPENSE. THE CONTRACTOR SHALL MAKE ARRANGEMENTS THROUGH THE COLUMBUS POLICE DIVISION AT (614) 645–4795.

LEO'S SHALL BE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH EMPLOYED BY THE CONTRACTOR, THE CITY REPRESENTATIVE SHALL HAVE CONTROL OVER THEIR PLACEMENT.

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IF A SAFETY HAZARD DEVELOPS, A LEO MAY BE ASSIGNED BY THE COLUMBUS SAFETY AND SERVICE DIRECTOR AT THE CONTRACTOR'S EXPENSE.

EXISTING PERMANENT TRAFFIC CONTROL ITEMS

1. ALL OVERHEAD CABLE, DOWN GUYS OR BACK GUYS SHALL NOT BLOCK ANY PORTION OF A TRAFFIC SIGNAL, TRAFFIC CONTROL SIGN, OR OTHER TRAFFIC CONTROL DEVICE SUCH THAT VISIBILITY OR OPERATION OF THE TRAFFIC CONTROL DEVICE IS IMPAIRED.

2. THE ROADWAY SHALL NOT BE OPENED TO NON-CONSTRUCTION TRAFFIC UNTIL THE CRITICAL PERMANENT TRAFFIC CONTROLS ARE IN PLACE, OR UNTIL TEMPORARY TRAFFIC CONTROLS APPROVED BY THE ENGINEER, ARE INSTALLED. THE CRITICAL PERMANENT TRAFFIC CONTROLS ARE STOP, YIELD, ONE WAY, DO NOT ENTER AND RESTRICTED TURN SIGNS. OTHER CRITICAL SIGNS MAY BE NOTED ON THE PLANS AS WELL. THE CONTRACTOR ASSUMES ALL LIABILITY FOR THE PREMATURE REMOVAL OF TEMPORARY TRAFFIC CONTROLS.

3. ALL PROPOSED PERMANENT PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS AS SHOWN ON THIS PLAN SHALL BE INSTALLED BY THE CONTRACTOR AT THE PROJECTS EXPENSE. THE PROJECT ENGINEER SHALL BE NOTIFIED TO DIRECT APPROPRIATE PERSONNEL A MINIMUM OF FORTY-EIGHT (48) HOURS (EXCLUDING SAT. & SUN.) PRIOR TO THE INSTALLATION OF PERMANENT MARKINGS TO INSPECT AND APPROVE THE PAVEMENT MARKING LAYOUT PRIOR TO PLACING THE PERMANENT MARKINGS.

4. ANY WORK DONE BY THE DIVISION OF PLANNING AND OPERATIONS, INCLUDING INSTALLATION, RELOCATION, REMOVAL AND/OR REPLACEMENT OF PERMANENT TRAFFIC CONTROL DEVICES AS A RESULT OF WORK DONE BY THE CONTRACTOR OR AS A RESULT OF NEGLIGENCE OF THE CONTRACTOR, SHALL BE AT THE CONTRACTORS' EXPENSE.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REINSTALLATION AND/OR REPLACEMENT OF ALL PERMANENT TRAFFIC CONTROL DEVICES DAMAGED OR REMOVED DURING CONSTRUCTION. PERMANENT TRAFFIC CONTROL NO LONGER IN CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE REPLACED IMMEDIATELY.

6. PERMANENT STRIPING OR CLASS I TEMPORARY STRIPING SHALL BE INSTALLED NO LATER THAN FOURTEEN (14) CALENDAR DAYS AFTER THE FINAL PAVING COURSE IS COMPLETED. THE PAVING CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE STRIPING CONTRACTOR TO INSURE THE PERMANENT STRIPING IS INSTALLED WITHIN THE FOURTEEN (14) CALENDAR DAY LIMIT.

8. AT ANY LOCATION WHERE THE CONTRACTOR DAMAGES DETECTORS AND/OR THEIR LEAD-IN CABLES THE CONTRACTOR SHALL REPLACE THEM. AT ANY LOCATION WHERE DETECTION IS CHANGED FROM MAG PROBE UNITS TO LOOPS, THE CONTRACTOR SHALL REPLACE THE PROBE LEAD-IN WITH LOOP LEAD-IN CABLE. ALL REPAIRS TO DETECTION SHALL BE COMPLETED WITHIN 21 DAYS FROM DAMAGE TO DETECTION ON A PER INTERSECTION BASIS. IF THE 21 DAY REPAIR REQUIREMENT CANNOT BE SATISFIED AT ANY LOCATION WHERE THE CONTRACTOR DAMAGES DETECTORS AND/OR THEIR LEAD-IN CABLES, THE CONTRACTOR, AT THE DISCRETION OF ENGINEER, MAY BE REQUIRED TO INSTALL TEMPORARY VIDEO DETECTION OR TEMPORARY LOOP DETECTION. ANY CONTRACTOR FAILING TO COMPLY WITH THESE GUIDELINES SHALL BE SUBJECT TO PENALTY TO THE SUM OF $100.00 PER DAY FOR EACH DAY BEYOND THE 21 DAY REPAIR PERIOD ON A PER INTERSECTION BASIS, UNTIL CONDITIONS ARE MET TO THE SATISFACTION OF THE ENGINEER. THIS PENALTY DEDUCTION SHALL BE SPECIFIC FOR EACH SIGNALIZED INTERSECTION EFFECTED BY THIS PROJECT AND SEPARATE FROM ANY LIQUIDATED DAMAGES FOR THE PROJECT AS A WHOLE. THE WORK TO INSTALL THE DETECTION SHALL CONFORM TO ODOT STANDARD CONSTRUCTION DRAWING TC-82.10 (DATED 01/21/11 OR LATER) AND TO THE CURRENT CITY OF COLUMBUS (COC) CONSTRUCTION AND MATERIAL SPECIFICATIONS WITH THE FOLLOWING PROVISIONS:

A) THE CONTRACTOR SHALL PROVIDE THE DIVISION OF DESIGN AND CONSTRUCTION'S INSPECTOR, PRIOR TO THE COMMENCEMENT OF WORK, THE IMSA (INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION) CERTIFICATION PAPERS FOR ALL SIGNAL TECHNICIANS WORKING ON THIS PROJECT.

B) LOCATIONS OF THE REPLACEMENT DETECTION SHALL BE FIELD MARKED OR DIMENSIONED DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER. LOCATION OF FINAL PAVEMENT MARKINGS OR THE MARKINGS THEMSELVES SHALL BE CLEARLY INDICATED ON THE ASPHALT PRIOR TO DETECTOR LOCATIONS BEING MARKED. THE CONTRACTOR SHALL LAYOUT THE LOOPS ON THE PAVEMENT IF DRAWINGS ARE SUBMITTED. IF DRAWINGS HAVE NOT BEEN PROVIDED, CONTACT THE ENGINEER AT LEAST TWO WORKING DAYS PRIOR TO NEEDING THE LOCATION MARKED.

C) THE SAWSLOT DEPTH FOR LOOP WIRE INSTALLATION SHALL BE FOUR (4) INCHES WITH SIX (6) INCHES AT THE CONDUIT ENTRANCE. IF ADVERSE PAVEMENT CONDITIONS WARRANT, DEPTH MAY BE INCREASED TO SIX (6) INCHES THROUGHOUT AND SHALL BE DETERMINED BY THE DIVISION OF DESIGN AND CONSTRUCTION INSPECTOR.

D) EACH LOOP SHALL HAVE ITS OWN CONDUIT FROM EDGE OF PAVEMENT TO PULL BOX UNLESS SPECIFIED OTHERWISE BY THE DIVISION OF DESIGN AND CONSTRUCTION INSPECTOR.

E) THE PULLBOX ASSEMBLY SHALL BE RATED AS MEDIUM TO HEAVY DUTY, TO BE INSTALLED IN CONCRETE WALKWAYS, AND SHALL HAVE ALL STAINLESS STEEL HARDWARE. THE PULLBOX COVER SHALL HAVE THE WORD "TRAFFIC" ON IT. THE COVER SHALL BE BOLTED TO THE BOX AND SHALL BE EITHER POLYMER CONCRETE OR STEEL PLATE. THE COVER PLUS HOUSING AS A UNIT SHALL BE RATED TO WITHSTAND A MINIMUM 20,000 LB. STATIC LOAD OVER A 10 X10 AREA AS PER ASTM C-857. THE BOX DEPTH SHALL BE 18 INCHES MINIMUM TO 30 INCHES MAXIMUM. IF THE PROJECT DOES NOT SPECIFY CMSC 725.06 POLYMER CONCRETE PULL BOXES, THE SUPPLIED ASSEMBLIES SHALL BE AS FOLLOWS: CDR SYSTEMS MODEL SA32-1015-18, OR OLD CASTLE SYNERTECH MODEL 11 X18 X18". SIX (6) INCHES OF #4 AGGREGATE SHALL BE PLACED AT THE BOTTOM OF THE PULLBOX. NO CONDUIT SHALL PROTRUDE MORE THAN THREE (3) INCHES INSIDE THE PULLBOX. CONDUIT ELLS OR EXTENSIONS MAY BE USED TO ALIGN THE CONDUIT WITH THE HOUSING. THE COST FOR EXTENSIONS OR ELLS IF NEEDED SHALL BE INCIDENTAL TO THE PER UNIT PRICE.

F) WHEN A PULLBOX IS NOT USED, THE SOLDERED SPLICE SHALL BE MADE IN AN ANCHOR BASE STRAIN POLE OR A CONDUIT RISER SPECIFIED BY THE ENGINEER, EXCEPT WHERE A CONTROLLER CABINET IS MOUNTED ON THAT POLE IN WHICH CASE THE LOOP WIRE SHALL BE ROUTED DIRECTLY INTO THE CABINET.

G) THE CONTRACTOR SHALL NOT MAKE ANY WIRING CONNECTIONS OR ADJUSTMENTS INSIDE THE CONTROL CABINET. WHEN SUCH CONNECTIONS ARE REQUIRED, THE CONTRACTOR SHALL NOTIFY THE TRAFFIC OPERATIONS SHOP 645-7393, MON.-FRI., 8 AM TO 4 PM, TO SCHEDULE CITY FORCES FOR MAKING THE ACTUAL CONNECTIONS. THE CONTRACTOR SHALL BE AVAILABLE AT THE AGREED TIME. THE CONTRACTOR WILL BE BILLED FOR ANY TIME THAT CITY FORCES ARE REQUIRED TO WAIT FOR THE CONTRACTORS' WORK TO BE COMPLETED.

H) CONDUIT PLACED IN RIGHT OF WAY AREAS BEARING NO TRAFFIC FOR DETECTOR LEAD IN SHALL BE ITEM 725.051 CMSC, LATEST EDITION. CONDUIT PLACED UNDER A ROADWAY OR IN AREAS THAT MAY BEAR TRAFFIC SHALL BE ITEM 725.04 (SIZES AND TYPE TO BE DETERMINED BY THE ENGINEER). ALL CONDUITS SHALL BE PLACED AT A MINIMUM DEPTH OF 24 INCHES.

I) LOOP WIRE SHALL BE IDENTIFIED WITH A PLASTIC TAG (WBLT, EBRT, ETC.) AT THE SPLICE POINT OR AT ENTRANCE TO THE CABINET IF LEAD-IN CABLE IS NOT USED.

J) THE ITEMS AND ESTIMATED QUANTITIES FOR THE REPLACEMENT OF THE DIVISION OF PLANNING AND OPERATIONS' DETECTION ITEMS SHALL BE INCLUDED IN THESE PLANS OR AS DIRECTED BY THE DIVISION OF DESIGN AND CONSTRUCTION'S PLAN REVIEWER. THESE ESTIMATES ARE FOR THE PURPOSE OF BIDDING THE PROJECT.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AFTER ALL LOOPS HAVE BEEN INSTALLED AT EACH INTERSECTION. IF UNABLE TO MAKE CONTACT, CALL 645-7393. THE DIVISION OF PLANNING AND OPERATIONS SHALL INSPECT ALL SENSORS AND TEST AS NECESSARY. THE CONTRACTOR SHALL REPLACE ALL LOOPS NOT MEETING SPECIFICATIONS.

ITEM 614 – LAW ENFORCEMENT OFFICER (LEO) WITH PATROL CAR, AS PER PLAN

IN ADDITION TO THE LEO AND FLAGGER HOURS INCLUDED IN ITEM 614 MAINTAINING TRAFFIC, LUMP SUM; THE FOLLOWING QUANTITIES HAVE BEEN CARRIED FORWARD TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER OR AN ACCEPTABLE REPRESENTATIVE OF THE CITY OF COLUMBUS. THE OFFICIAL PATROL CAR WITH WORKING TOP MOUNTED EMERGENCY FLASHING LIGHTS SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE. THE CONTRACTOR SHALL BE PAID FOR THIS BID ITEM ONLY IF DIRECTED BY THE ENGINEER.

ITEM 614 – LAW ENFORCEMENT OFFICER WITH PATROL CAR, AS PER PLAN – 200 HOURS

ITEM 614 – LAW ENFORCEMENT OFFICER (LEO) WITHOUT PATROL CAR, AS PER PLAN

IN ADDITION TO LEO AND FLAGGER HOURS INCLUDED IN THE ITEM 614 MAINTAINING TRAFFIC, LUMP SUM; THE FOLLOWING QUANTITIES HAVE BEEN CARRIED FORWARD THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER OR AN ACCEPTABLE REPRESENTATIVE OF THE CITY OF COLUMBUS. THE CONTRACTOR SHALL BE PAID FOR THIS BID ITEM ONLY IF DIRECTED BY THE ENGINEER.

ITEM 614 – LAW ENFORCEMENT OFFICER WITHOUT PATROL CAR, AS PER PLAN – 200 HOURS

PEDESTRIAN PATHWAY PROVISIONS AND MAINTENANCE – TO BE INCLUDED WITH ITEM 614

NOTE: ALONG WITH SPECIFIC CITY OF COLUMBUS REQUIREMENTS THE PROVISIONS AND MAINTENANCE OF PEDESTRIAN PATHWAYS FOR THIS PROJECT SHALL BE COMPLIANT WITH, BUT NOT LIMITED TO, CHAPTER 6D – PEDESTRIAN AND WORKER SAFETY FROM THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION). NOTE: TEMPORARY MID-BLOCK CROSSWALKS ARE NOT APPROVED FOR CITY OF COLUMBUS APPLICATIONS.

SPECIAL ATTENTION SHALL BE GIVEN TO THE FOLLOWING;

1) ADVANCED WRITTEN NOTIFICATION OF SIDEWALK CLOSURES, DETOURS, SIGNAGE, AND OTHER PEDESTRIAN GUIDANCE SHALL BE PROVIDED TO THE SURROUNDING COMMUNITY AND THE APPROPRIATE CITY OF COLUMBUS PERSONNEL (THIS SHALL BE ACCOMPLISHED AS PER THE PRE- CONSTRUCTION AND ADVANCED NOTIFICATION REQUIREMENTS AS PRESCRIBED IN THE PLAN NOTES SECTION AND MAINTENANCE OF TRAFFIC NOTES SECTION RESPECTIVELY IN THIS SET OF PLANS). SIDEWALK CLOSURE AND/OR DETOUR SIGNS SHALL BE MOUNTED ON BARRICADES THAT COMPLETELY BLOCK THE AREA THAT IS CLOSED.

2) PEDESTRIAN ACCESS TO RESIDENCES AND BUSINESSES SHALL BE MAINTAINED AT ALL TIMES. MAINTAIN ACCESS TO BLOCKS FROM ONE END OR THE OTHER. FINISH WORK AT ONE END OF A BLOCK BEFORE DISTURBING THE OTHER END, OR INSTALL TEMPORARY SIDEWALK.

3) THERE SHALL NOT BE ANY ABRUPT CHANGES IN GRADE OR TERRAIN THAT COULD CAUSE A TRIPPING HAZARD OR COULD BE A BARRIER TO WHEELCHAIR USE. TEMPORARY WALKWAYS SHALL HAVE A SMOOTH HARD SURFACE, BE A MINIMUM OF 60" WIDE, AND WILL BE FREE OF ANY PROTRUSIONS.

4) IF A SIGNIFICANT POTENTIAL EXISTS FOR VEHICLE INCURSIONS INTO THE PEDESTRIAN PATH, PEDESTRIANS SHALL BE REROUTED OR TEMPORARY TRAFFIC DIVIDERS SHALL BE INSTALLED. IF A TEMPORARY TRAFFIC DIVIDER IS USED TO SHIELD PEDESTRIANS, IT SHALL BE DESIGNED TO ACCOMMODATE SITE CONDITIONS, PROVIDE AN ACCESSIBLE PASSAGE, AND BE DETECTABLE BY PEOPLE WITH DISABILITIES.

LANE CLOSURE HOURS FOR WORK ON FREEWAYS (NON INNERBELT)

LANE, RAMP, AND/OR SHOULDER CLOSURE TIMES FOR ALL OTHER FREEWAYS AND MULTILANE HIGHWAYS WILL BE DETERMINED BY THE ENGINEER WITH GUIDANCE FROM THE PERMITTED LANE CLOSURE INFORMATION WEBSITE AND THE DISTRICT WORK ZONE TRAFFIC MANAGER. THE PERMITTED LANE CLOSURE INFORMATION CAN BE VIEWED FROM THE DESIGN REFERENCE RESOURCE CENTER (DRRC) ON THE ODOT WEBSITE, www.dot.state.oh.us.

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INNERBELT NOTE

NO WORK SHALL BE PERMITTED BETWEEN THE HOURS OF 5:00 A.M. AND 9:00 P.M., WEEKDAYS*, ON ANY INNERBELT, FREEWAY OR CONNECTOR ROADWAY WITHIN THE INNERBELT RIGHT-OF-WAY. [THE INNERBELT IS DEFINED BY I-670 ON THE NORTH, I-71 ON THE EAST, I-70 ON THE SOUTH, AND SR-315 ON THE WEST.]

WHEN MORE THAN ONE THROUGH LANE IS CLOSED AND/OR IF THE INTERSTATE IS REDUCED TO ONE LANE BETWEEN 9:00 P.M. AND 5:00 A.M., WEEKDAYS* OR ON THE WEEKENDS*** FROM 10:00 P.M. FRIDAY NIGHT UNTIL 5:00 A.M. MONDAY, ALL ENTRANCE RAMPS SHALL BE CLOSED USING THE STANDARDS SET FORTH IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE TYPICAL DETAIL FOR RAMP CLOSURES INCLUDED.

RAMP CLOSURES MAY ALSO BE NECESSARY WHEN ONLY ONE LANE IS CLOSED IN A HIGHLY CONGESTED AREA. AS DIRECTED BY THE ENGINEER.

NO STAGING OF EQUIPMENT OR OCCUPYING SHOULDERS SHALL OCCUR PRIOR TO THE PERMITTED HOURS.

* WEEKDAYS ARE DEFINED AS MONDAY MORNING 5:00 A.M. UNTIL FRIDAY 10:00 P.M.

** AN ADD/DROP LANE BETWEEN INTERCHANGES IS NOT CONSIDERED A THROUGH DRIVING LANE.

***WEEKENDS ARE DEFINED AS FRIDAY NIGHT AT 10:00 P.M. UNTIL MONDAY AT 5:00 A.M.

NOTIFICATION OF TRAFFIC RESTRICTIONS ON FREEWAYS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE ODOT-DISTRICT 6 OFFICE OF COMMUNICATIONS VIA EMAIL (d06.mot@dot.state.oh.us AND d06.pio@dot.state.oh.us) OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES ON THE FREEWAY. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN TIME TO MEET THE REQUIREMENTS SET FORTH IN THE TABLE BELOW AND PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE BUT IS NOT LIMITED TO ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHOULD LIST THE SPECIFIC LOCATIONS, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, DETOUR ROUTES IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE DISTRICT 6 OFFICE OF COMMUNICATIONS.

NOTIFICATION TIME FRAME TABLE

ITEM	DURATION OF CLOSURE	NOTIFICATION DUE TO DISTRICT 6 COMMUNICATION OFFICE
RAMP AND ROAD CLOSURE	> = 2 WEEKS	14 BUSINESS DAYS PRIOR TO CLOSURE
	> 12 HOURS AND < 2 WEEKS	7 BUSINESS DAYS PRIOR TO CLOSURE
	< 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES/RESTRICTIONS	> = 2 WEEKS	7 BUSINESS DAYS PRIOR TO CLOSURE
	< 2 WEEKS	2 BUSINESS DAYS PRIOR TO CLOSURE

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE DISTRICT 6 OFFICE OF COMMUNICATION USING THE NOTIFICATION TIME FRAME TABLE.

SEND ALL NOTIFICATIONS TO d6.pio@dot.state.oh.us

COORDINATION WITH OTHER PROJECTS

THE CONTRACTOR IS ADVISED OF THE POSSIBILITY OF OTHER CONSTRUCTION CONTRACTS IN THE SAME AREAS. THE OTHER PROJECTS MAY BE GOING ON CONCURRENTLY WITH THE PROJECT AND CLOSE COOPERATION BETWEEN CONTRACTORS IS NECESSARY TO ENSURE THAT THE TRAFFIC MAINTENANCE OPERATIONS FOR EACH AREA ARE, AT ALL TIMES, COMPATIBLE. THE ENGINEERS SHALL WORK TOGETHER TO RESOLVE ANY CONFLICTS.

THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 105.08 OF THE CMS.

ONGOING PROJECTS DURING PHASE B CONSTRUCTION	
FRA-70-8.93 (PID 77369)	FRA-270-22.85 (PID 81748)
FRA-70-14.48 (PID 77370)	FRA-315-2.40 (PID 24696)
FRA-70-15.25 (PID 94271)	FRONT ST. / MARCONI BLVD. CONVERSION PROJECT
FRA-270-21.67 (PID 81747)	

LANES OPEN DURING HOLIDAYS

NO WORK SHALL BE PERFORMED AND THE SAME NUMBER OF LANES AS WERE AVAILABLE AT THE START OF THE PROJECT SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS	FOURTH OF JULY
NEW YEARS	LABOR DAY
MEMORIAL DAY	THANKSGIVING

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY (THANKSGIVING ONLY)	5:00AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

CITY OF COLUMBUS NOISE ORDINANCE

THE CONTRACTOR SHALL CONFORM TO THE CITY OF COLUMBUS CODE SECTION 2329.11.

CITY OF COLUMBUS SPECIAL EVENTS

THE CONTRACTOR SHALL CONTACT THE CITY OF COLUMBUS TEMPORARY TRAFFIC CONTROL COORDINATOR FOR ANY ADDITIONAL MOT REQUIREMENTS FOR SPECIAL EVENTS, INCLUDING OSU FOOTBALL HOME GAMES.

USE OF WEIGHTED CHANNELIZERS

THE WEIGHTED CHANNELIZER MAY BE USED IN ACCORDANCE WITH THIS SECTION. THE WEIGHTED CHANNELIZER SHALL BE PREDOMINANTLY ORANGE IN COLOR AND SHALL BE MADE OF LIGHTWEIGHT, FLEXIBLE, AND DEFORMABLE MATERIAL. THEY SHALL BE AT LEAST 42 INCHES IN HEIGHT WITH A WEIGHTED BASE. THE MAY HAVE A HANDLE OR LIFTING DEVICE WHICH EXTENDS ABOVE THE 42 INCHES MINIMUM HEIGHT.

THE MARKINGS ON THE WEIGHTED CHANNELIZER SHALL BE HORIZONTAL, CIRCUMFERENTIAL, ALTERNATING ORANGE AND WHITE RETROREFLECTIVE STRIPES 6 INCHES WIDE. EACH WEIGHTED CHANNELIZER SHALL HAVE A MINIMUM OF TWO ORANGE AND TWO WHITE STRIPES. ANY NON-RETROREFLECTIVE SPACES BETWEEN THE HORIZONTAL ORANGE AND WHITE STRIPES SHALL NOT EXCEED 2 INCHES WIDE. THE WEIGHTED CHANNELIZER SHALL HAVE A 4-INCH MINIMUM WIDTH, REGARDLESS OF ORIENTATION.

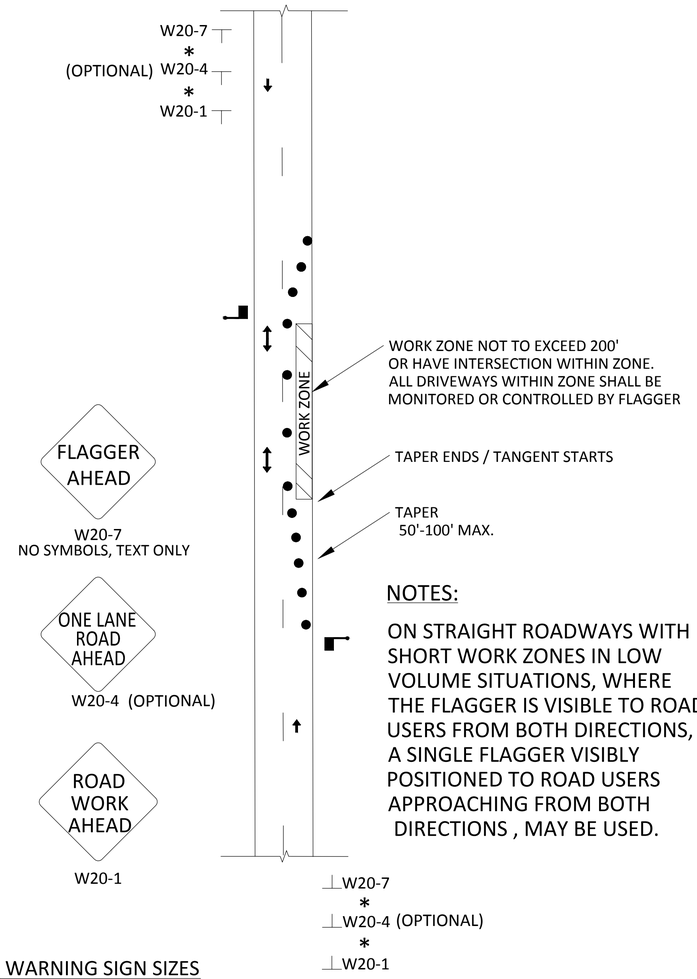
USE OF WEIGHTED CHANNELIZERS ON FREEWAYS AND MULTILANE HIGHWAYS SHALL BE LIMITED TO SHORT-TERM OPERATIONS FOR EITHER DAY OR NIGHT. UPON COMPLETION OF WORK, THE WEIGHTED CHANNELIZERS SHALL BE REMOVED. THE WEIGHTED CHANNELIZERS MAY AGAIN BE PLACED ON THE HIGHWAY WHEN THE WORK IS TO RESUME ON THE FOLLOWING DAY OR NIGHT. ANY LANE CLOSURE WORK USING CHANNELIZATION DEVICES, EXPECTED TO REMAIN FOR MORE THAN TWELVE HOUSE, SHALL REQUIRE THE USE OF DRUMS OR BARRICADES.

WHEN USED AT NIGHT, WEIGHTED CHANNELIZERS SHALL ONLY BE PLACED IN THE TANGENT AREA AND AT A MAXIMUM SPACING OF 40 FEET. THE TANGENT AREA IS DEFINED AS THE AREA AFTER THE TRANSITION TAPER WHERE THE WORK TAKES PLACE. DRUMS SHALL BE USED IN THE TRANSITION TAPERS FOR NIGHT OPERATIONS.

STEPS SHOULD BE TAKEN TO ENSURE THAT THE WEIGHTED CHANNELIZERS WILL NOT BE BLOWN OVER OR DISPLACED BY WIND OR MOVING TRAFFIC. BALLASTS SHOULD NOT PRESENT A HAZARD IF THE WEIGHTED CHANNELIZERS ARE INADVERTENTLY STRUCK, NOR SHOULD THEY AFFECT THE VISIBILITY OF THE WEIGHTED CHANNELIZERS. ALL BALLASTS USED SHOULD BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

PAYMENT SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 MAINTAINING TRAFFIC.

CITY OF COLUMBUS DETAIL: LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS



NOTES:

ON STRAIGHT ROADWAYS WITH SHORT WORK ZONES IN LOW VOLUME SITUATIONS, WHERE THE FLAGGER IS VISIBLE TO ROAD USERS FROM BOTH DIRECTIONS, A SINGLE FLAGGER VISIBLY POSITIONED TO ROAD USERS APPROACHING FROM BOTH DIRECTIONS , MAY BE USED.

WARNING SIGN SIZES

MINIMUM TYPICAL SIGN SIZE IS 36"
INCREASE SIGN SIZE TO 48" WHEN ON ROAD WITH SPEEDS > 45MPH.

*SIGN SPACING

SPACING STARTS FROM THE FIRST DRUM OR DEVICE
SPACING IS 100' FOR SPEEDS <= TO 45 MPH
OR 350' SPACING FOR SPEEDS > 45 MPH
SEE OMUTCD PART 6 TABLE 6C-1

FEDERAL PROJECT NUMBER E100(958)

CIP: 540007-100005
PID NUMBER: 14522

GENERAL NOTES SHEET 8 OF 12
MAINTENANCE OF TRAFFIC SHEET 3 OF 5

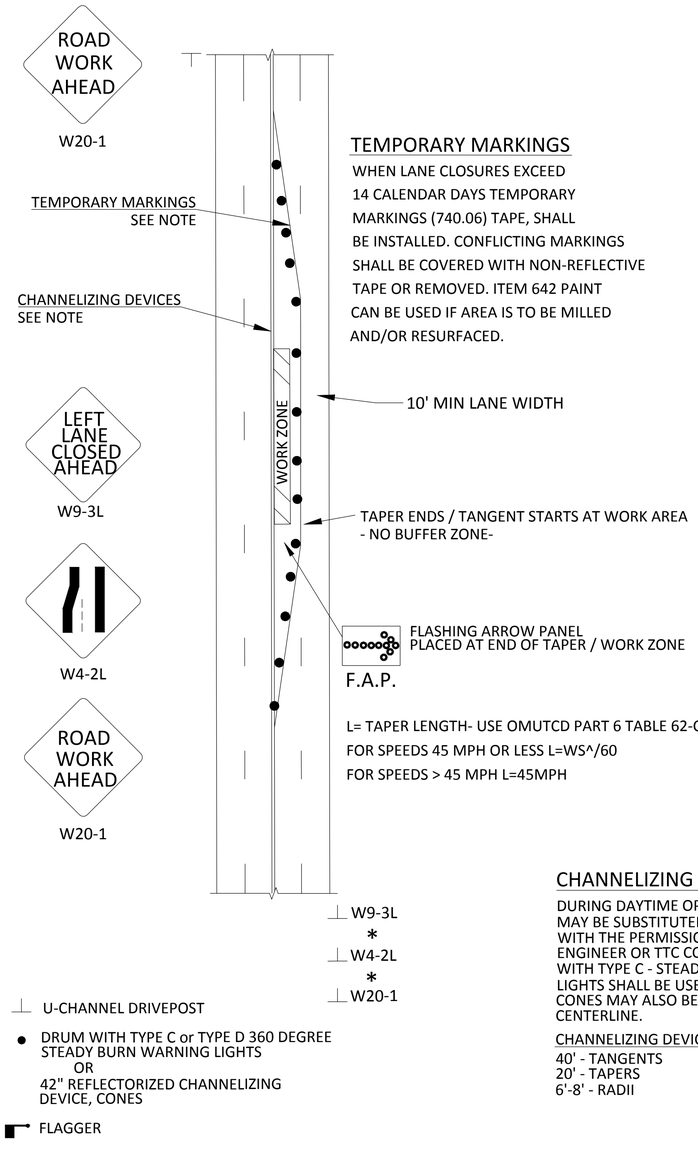
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

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CITY OF COLUMBUS DETAIL: TYPICAL LEFT LANE CLOSURE



TEMPORARY MARKINGS

WHEN LANE CLOSURES EXCEED 14 CALENDAR DAYS TEMPORARY MARKINGS (740.06) TAPE, SHALL BE INSTALLED. CONFLICTING MARKINGS SHALL BE COVERED WITH NON-REFLECTIVE TAPE OR REMOVED. ITEM 642 PAINT CAN BE USED IF AREA IS TO BE MILLED AND/OR RESURFACED.

L= TAPER LENGTH- USE OMUTCD PART 6 TABLE 62-C

FOR SPEEDS 45 MPH OR LESS L=WS^/60

FOR SPEEDS > 45 MPH L=45MPH

⊥ U-CHANNEL DRIVEPOST

● DRUM WITH TYPE C or TYPE D 360 DEGREE STEADY BURN WARNING LIGHTS
OR
42" REFLECTORIZED CHANNELIZING DEVICE, CONES

FLAGGER

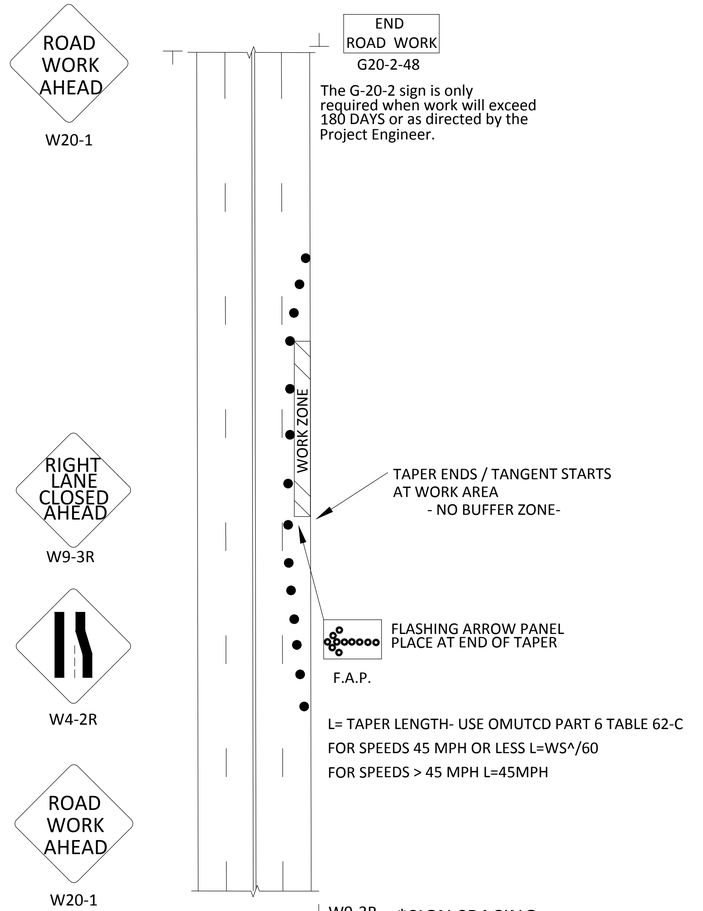
CHANNELIZING DEVICES

DURING DAYTIME OPERATIONS, DRUMS MAY BE SUBSTITUTED WITH 42" CONES WITH THE PERMISSION OF THE PROJECT ENGINEER OR TTC COORDINATOR. DRUMS WITH TYPE C - STEADY BURN WARNING LIGHTS SHALL BE USED AT NIGHT. CONES MAY ALSO BE REQUIRED ALONG CENTERLINE.

CHANNELIZING DEVICE SPACING

40' - TANGENTS
20' - TAPERS
6'-8' - RADII

CITY OF COLUMBUS DETAIL: TYPICAL RIGHT LANE CLOSURE



L= TAPER LENGTH- USE OMUTCD PART 6 TABLE 62-C

FOR SPEEDS 45 MPH OR LESS L=WS^/60

FOR SPEEDS > 45 MPH L=45MPH

***SIGN SPACING**

Spacing starts from the first drum or device.
Spacing is 100' fro speeds <= TO 45 MPH
350' Spacing for speeds > 45 MPH
SEE OMUTCD PART 6 TABLE 6C-1

WARNING SIGN SIZES

Minimum typical sign size is 36" inches. Increase sign size to 48" inches when the roadway has three or more lanes on an one-way condition or or 4 or more lanes on an aterial condition. Signs shall be placed on both sides of a one-way street regardless of the number of lanes.

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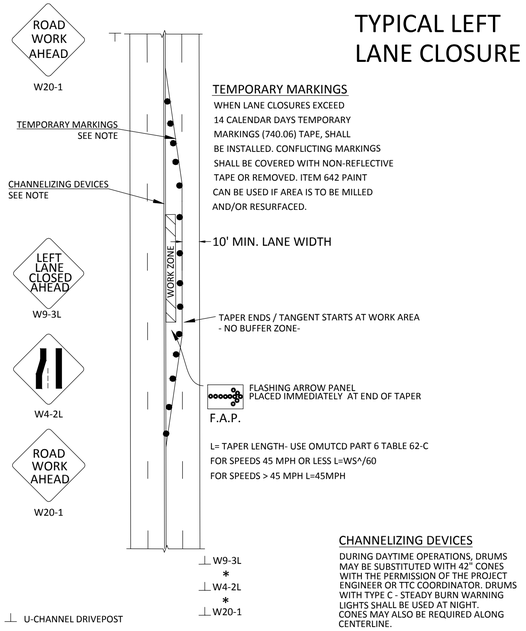
FEDERAL PROJECT NUMBER E100(958)

CIP: 540007–100005
PID NUMBER: 14522

GENERAL NOTES SHEET 9 OF 12
MAINTENANCE OF TRAFFIC SHEET 4 OF 5

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

TYPICAL LEFT LANE CLOSURE



TEMPORARY MARKINGS

WHEN LANE CLOSURES EXCEED 14 CALENDAR DAYS TEMPORARY MARKINGS (740.06) TAPE, SHALL BE INSTALLED. CONFLICTING MARKINGS SHALL BE COVERED WITH NON-REFLECTIVE TAPE OR REMOVED. ITEM 642 PAINT CAN BE USED IF AREA IS TO BE MILLED AND/OR RESURFACED.

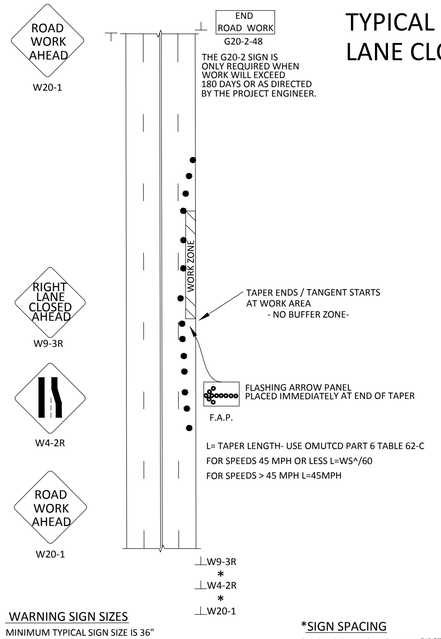
L= TAPER LENGTH- USE OMUTCD PART 6 TABLE 62-C
FOR SPEEDS 45 MPH OR LESS L=WS^/60
FOR SPEEDS > 45 MPH L=45MPH

CHANNELIZING DEVICES

DURING DAYTIME OPERATIONS, DRUMS MAY BE SUBSTITUTED WITH 42" CONES WITH THE PERMISSION OF THE PROJECT ENGINEER OR TTC COORDINATOR. DRUMS WITH TYPE C - STEADY BURN WARNING LIGHTS SHALL BE USED AT NIGHT. CONES MAY ALSO BE REQUIRED ALONG CENTERLINE.

CHANNELIZING DEVICE SPACING
40' - TANGENTS
20' - TAPERS
6'-8' - RADII

TYPICAL RIGHT LANE CLOSURE



L= TAPER LENGTH- USE OMUTCD PART 6 TABLE 62-C
FOR SPEEDS 45 MPH OR LESS L=WS^/60
FOR SPEEDS > 45 MPH L=45MPH

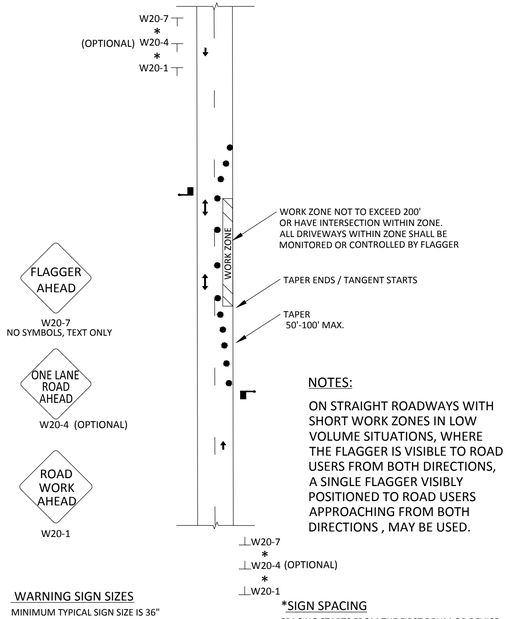
WARNING SIGN SIZES

MINIMUM TYPICAL SIGN SIZE IS 36" INCREASE SIGN SIZE TO 48" WHEN ON 4-LANE ARTERIAL OR WIDER. PLACE SIGNS ON BOTH SIDES OF A ONE-WAY MULTI - LANE STREET.

*SIGN SPACING

SPACING STARTS FROM THE FIRST DRUM OR DEVICE
SPACING IS 100' FOR SPEEDS <= TO 45 MPH
OR 350' SPACING FOR SPEEDS > 45 MPH
SEE OMUTCD PART 6 TABLE 6C-1

LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS



WARNING SIGN SIZES

MINIMUM TYPICAL SIGN SIZE IS 36" INCREASE SIGN SIZE TO 48" WHEN ON ROAD WITH SPEEDS > 45MPH.

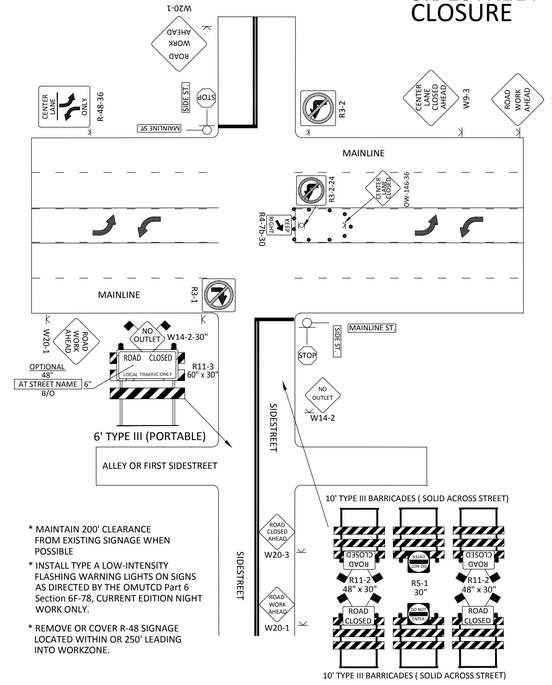
NOTES:

ON STRAIGHT ROADWAYS WITH SHORT WORK ZONES IN LOW VOLUME SITUATIONS, WHERE THE FLAGGER IS VISIBLE TO ROAD USERS FROM BOTH DIRECTIONS, A SINGLE FLAGGER VISIBLY POSITIONED TO ROAD USERS APPROACHING FROM BOTH DIRECTIONS , MAY BE USED.

*SIGN SPACING

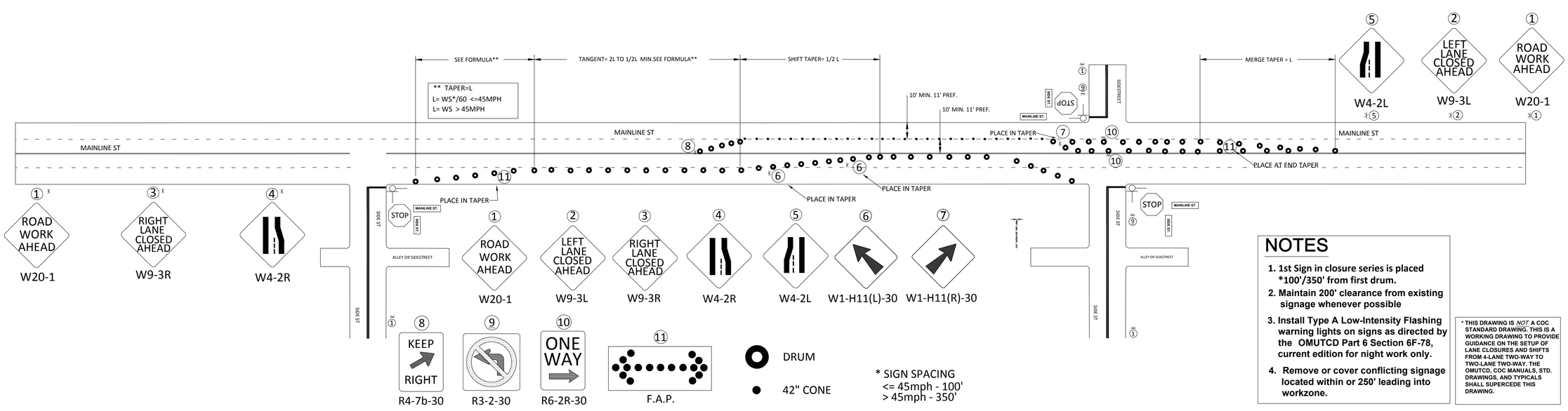
SPACING STARTS FROM THE FIRST DRUM OR DEVICE
SPACING IS 100' FOR SPEEDS <= TO 45 MPH
OR 350' SPACING FOR SPEEDS > 45 MPH
SEE OMUTCD PART 6 TABLE 6C-1

TYPICAL SIDESTREET CLOSURE



* MAINTAIN 200' CLEARANCE FROM EXISTING SIGNAGE WHEN POSSIBLE
* INSTALL TYPE A LOW-INTENSITY FLASHING WARNING LIGHTS ON SIGNS AS DIRECTED BY THE OMUTCD Part 6 Section 6F-78, CURRENT EDITION NIGHT WORK ONLY.
* REMOVE OR COVER R-48 SIGNAGE LOCATED WITHIN OR 250' LEADING INTO WORKZONE.

EXISTING 4 LANE - 2 WAY TO 2 LANE - 2 WAY USING LANE CLOSURE PLUS SHIFT ACROSS CENTERLINE



NOTES

1. 1st Sign in closure series is placed *100'/350' from first drum.
2. Maintain 200' clearance from existing signage whenever possible
3. Install Type A Low-Intensity Flashing warning lights on signs as directed by the OMUTCD Part 6 Section 6F-78, current edition for night work only.
4. Remove or cover conflicting signage located within or 250' leading into workzone.

* THIS DRAWING IS *NOT* A COC STANDARD DRAWING. THIS IS A WORKING DRAWING TO PROVIDE GUIDANCE ON THE SETUP OF LANE CLOSURES AND SHIFTS FROM 4-LANE TWO-WAY TO TWO-LANE TWO-WAY. THE OMUTCD, COC MANUALS, STD. DRAWINGS, AND TYPICALS SHALL SUPERCEDE THIS DRAWING.

2953-E

FEDERAL PROJECT NUMBER E100(958)

CIP: 540007–100005
PID NUMBER: 14522

GENERAL NOTES SHEET 10 OF 12
MAINTENANCE OF TRAFFIC SHEET 5 OF 5

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

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MAINTENANCE OF TRAFFIC TABLE FOR A SINGLE PROJECT WITH MULTIPLE LOCATIONS

EXISTING CONDITIONS				MAINTENANCE OF TRAFFIC CONDITIONS					
STREET NAME	WORK LIMITS	SIGNALIZED INTERSECTIONS	EXISTING TRAFFIC PATTERN	MINIMUM TRAFFIC PATTERN	LEO REQUIRED	PLAN PG. #	WEEKDAY WORK HOURS	NIGHT WORK PERMITTED	WEEKEND WORK PERMITTED
BROAD ST	560+50 TO 561+30		2W-4L	2W-3L	N	595	9AM - 3:30PM	YES	NO
	561+50 TO I-70 EB 592+15				N	595	9AM - 3:30PM	YES	NO
	680+00 TO 681+50		2W-7L	2W-6L	N	97	9AM - 3:30PM	YES	NO
FRONT ST	1032+00 TO 1038+00		2W-5L	2W-3L	N	97	9AM - 3:30PM	YES	NO
	1038+00 TO 1054+50		2W-5L	2W-4L	N	97-98	9AM - 3:30PM	YES	NO
WILSON RD	79+00 TO 80+25		2W-4L	2W-3L	N	167	9AM - 3:30PM	YES	NO
	80+25 TO I-70 EB 424+00		2W-4L	2W-3L	N	167, 548	9AM - 2PM	YES	YES
TRABUE RD	74+90 TO 93+25		2W-2L	2W-1L WITH FLAGGER	N	173-174	9AM - 3:30PM	NO	YES
	85+00 TO I-270 NB 501+50		1W-3L	1W-3L		174, 551	NOT PERMITTED	YES	YES
HAGUE AVE	FISHER RD TO I-70 WB		2W-4L	2W-3L	Y	188-189	9AM - 3:30PM	YES	NO
		FISHER RD			Y	188	9AM - 3:30PM	YES	NO
		I-70 WB			Y	189	9AM - 3:30PM	YES	NO
I-670 AT GRANDVIEW	51+50 TO 54+40		2W-10L	2W-10L	N	227, 554	9AM - 3PM	NO	YES
SOUDER AVE	MOUND ST TO 0+15		2W-2L	2W-1L WITH FLAGGER	Y	148, 150	9AM - 3:30PM	YES	NO
		MOUND ST			Y	148	9AM - 3:30PM	YES	NO
HARRISBURG PIKE	61+50 TO 77+90		2W-4L	2W-2L	Y	194, 531	9AM - 3:30PM	YES	NO
	61+50 TO I-270 EB 112+40		2W-6L	2W-5L	N	531	9AM - 3PM	YES	YES
REFUGEE RD	976+50 TO 984+15		2W-4L	2W-3L	N	496	9AM - 3:30PM	NO	NO
HAMILTON RD	REFUGEE RD TO 13+90		2W-4L	2W-3L	Y	493, 569	9AM - 3:30PM	YES	NO
		REFUGEE RD			Y	493	9AM - 3:30PM	YES	NO
BRICE RD	378+00 TO I-70 WB RAMP		2W-4L	2W-4L	Y	474, 589	9AM - 3:30PM	YES	NO
		I-70 WB RAMP			Y	474	9AM - 3:30PM	YES	NO
JAMES RD	I-70 EB RAMP TO 110+00		2W-3L	2W-2L	Y	445	9AM - 3:30PM	YES	NO
		I-70 WB RAMP			Y	445	9AM - 3:30PM	YES	NO
LIVINGSTON AVE	ALUM CREEK DR TO 1155+20		2W-4L	2W-4L	Y	324, 560	9AM - 3:30PM	YES	NO
		ALUM CREEK DR			Y	324	9AM - 3:30PM	YES	NO
CHATTERTON RD	1061+05 TO BRICE RD		2W-2L	2W-1L WITH FLAGGER	Y	504-507	9AM - 3:30PM	NO	NO
		BRICE RD			Y	507	9AM - 3:30PM	NO	NO
I-70	EB 1204+80 TO EB 1264+75		2W-6L	2W-5L	N	581-585	NOT PERMITTED	YES	YES
	1264+50 TO 1308+02		2W-6L	2W-6L	N	585, 589-590	NOT PERMITTED	YES	YES
	EB 1021+25 TO EB 1027+40		2W-6L	2W-6L	N	563	NOT PERMITTED	YES	YES
	I-70WB OFF RAMP 1127+00 TO 1134+25		1W-3L	1W-3L	N	346, 566	NOT PERMITTED	YES	YES
	I-70 EB OFF RAMP 901+50 TO 907+50		2W-7L	2W-7L	N	560	NOT PERMITTED	YES	YES

SEE SHEETS 22, 23, AND 24 FOR STANDARD MOT LANE CLOSURE DIAGRAMS.

FLAGGING OPERATIONS ARE NOT PERMITTED DURING NIGHT WORK HOURS.

WEEKEND DAY WORK HOURS
7:00 AM TO 7:00 PM SAT/SUN

WEEKEND CLOSURE HOURS
8:00 PM FRI TO 5:00 AM MON

WEEKDAY NIGHT WORK HOURS
8:00 PM TO 5:00 AM

2953-E

FEDERAL PROJECT NUMBER E100(958)

CIP: 540007-100005
PID NUMBER: 14522

GENERAL NOTES SHEET 11 OF 12
MAINTENANCE OF TRAFFIC TABLE 1 OF 2

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

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MAINTENANCE OF TRAFFIC TABLE FOR A SINGLE PROJECT WITH MULTIPLE LOCATIONS

EXISTING CONDITIONS				MAINTENANCE OF TRAFFIC CONDITIONS					
STREET NAME	WORK LIMITS	SIGNALIZED INTERSECTIONS	EXISTING TRAFFIC PATTERN	MINIMUM TRAFFIC PATTERN	LEO REQUIRED	PLAN PG. #	WEEKDAY WORK HOURS	NIGHT WORK PERMITTED	WEEKEND WORK PERMITTED
I-270	112+40 TO 209+60		2W-6L	2W-5L	N	531-540	9AM - 3PM	YES	YES
	214+75 TO 224+65		2W-6L	2W-5L	N	541-542	9AM - 3PM	YES	YES
	225+10 TO 260+75		2W-6L	2W-5L	N	542-546	9AM - 3PM	YES	YES
	2294+75 TO 2364+25		2W-6L	2W-6L	N	569-577	8AM - 3PM	YES	YES
	491+25 TO 501+50		2W-7L	2W-6L	N	174, 551	NOT PERMITTED	YES	NO
SR-161	835+10 TO 849+75		2W-14L	2W-14L	N	521-522	9AM - 3:30PM	YES	YES
EXECUTIVE PKWY	SUNBURY RD TO 865+50		2W-5L	2W-5L	Y	523-524	9AM - 3:30PM	YES	NO
		SUNBURY							
DEMPSEY RD	69+90 TO 76+40		2W-2L	2W-1L WITH FLAGGER	N	513-514	9AM - 3:30PM	NO	NO
WESTERVILLE RD	15+03 TO 26+10		2W-4L	2W-4L	Y	510, 592	9AM - 3:30PM	YES	NO
		I-270 EB RAMP			Y				

SEE SHEETS 22, 23, AND 24 FOR
STANDARD MOT LANE CLOSURE DIAGRAMS.

FLAGGING OPERATIONS ARE NOT
PERMITTED DURING NIGHT WORK HOURS.

WEEKEND DAY WORK HOURS
7:00 AM TO 7:00 PM SAT/SUN

WEEKEND CLOSURE HOURS
8:00 PM FRI TO 5:00 AM MON

WEEKDAY NIGHT WORK HOURS
8:00 PM TO 5:00 AM

2953-E

FEDERAL PROJECT NUMBER
E100(958)

CIP: 540007-100005
PID NUMBER: 14522

GENERAL NOTES SHEET 12 OF 12
MAINTENANCE OF TRAFFIC TABLE 2 OF 2

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

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911

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SUB SUMMARY												GENERAL NOTES					PARTICIPATION			ITEM	QUANTITY	UNIT	DESCRIPTION	REFERENCE
29	30	31	32	277	278	279	280	281	282	283	284	16	18	19	20	21	CMAQ	STP	LOCAL					
ROADWAY																								
												1					1			201	1	LS	CLEARING AND GRUBBING	CMSC
													600				600			202	600	FT	CURB REMOVED	CMSC
													400				400			202	400	SF	WALK REMOVED	CMSC
													400				400			202	400	FT	CURB AND GUTTER REMOVED	CMSC
33,856				10,958				14,955					2,000				61,769			202	61,769	FT	EXISTING CONDUIT CLEANED, AS PER PLAN	SP-103
3				3													6			202	6	EACH	REMOVAL, MISC.: REMOVE EXISTING OVERHEAD EQUIPMENT	SHEET 16, SP-103
													1				1			207	1	LS	ESC/SWP3, AS PER PLAN	CMSC
														337			337			254	337	SY	PAVEMENT PLANING, 1-1/4" DEEP	CMSC
														36			36			407	36	GAL	TACK COAT	CMSC
														17			17			448	17	CY	ASPHALT CONCRETE SURFACE COURSE, MEDIUM TRAFFIC, PG70-22M	CMSC
													10				10			608	10	EACH	DETECTABLE WARNING, TYPE E	SHEET 16, CSD 2319
													400				400			608	400	SF	4" CONCRETE WALK	SHEET 16, CSD 2300
													400				400			608	400	SF	8" CONCRETE WALK	SHEET 16, CSD 2301
													4				4			608	4	EACH	CURB RAMP	CMSC, CSD 2319
													200				200			609	200	SF	COMBINATION CURB AND GUTTER, TYPE STANDARD	CSD 2010
													200				200			609	200	SF	COMBINATION CURB AND GUTTER, TYPE SPECIAL 8"	CSD 2020
													200				200			609	200	FT	CURB, STRAIGHT 18"	CSD 2000
																200	200			614	200	HR	LAW ENFORCEMENT OFFICER WITH PATROL CAR	SHEET 21
																200	200			614	200	HR	LAW ENFORCEMENT OFFICER WITHOUT PATROL CAR	SHEET 21
															1		1			614	1	LS	MAINTAINING TRAFFIC, AS PER PLAN	SHEETS 20 - 26
												24					24			616	24	TON	CALCIUM CHLORIDE	SHEET 16
												10					10			616	10	M GAL	WATER	SHEET 16
																	1			624	1	LS	MOBILIZATION	CMSC
		8,099				12,247				344							20,690			632	20,690	FT	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	SP-103
		95,527				115,065				4,833							215,425			632	215,425	FT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	SP-103
		23,336				5,219				2,944							31,499			632	31,499	FT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT	SP-103
												92,194					92,194			632	92,194	FT	INTERCONNECT, MISC.: UNDERGROUND FIBER OPTIC INSTALLATION	SP-103
												10					10			659	10	M GAL	WATER	SHEET 16
												1					1			SPEC	1	LS	CRITICAL PATH METHOD PROGRESS SCHEDULE FOR LONG DURATION PROJECTS	CMSC
INTERCONNECT																								
3																	3			202	3	EACH	REMOVAL, MISC.: REMOVE EXISTING WOOD POLE	SP-103
								20									20			202	20	FT	REMOVAL, MISC.: REMOVE MEDIAN BARRIER WALL	SP-103
								20					100				120			622	120	FT	BARRIER, MISC.: MEDIAN BARRIER WALL	SP-103
								1									1			625	1	EACH	36" MEDIAN JUNCTION BOX	SHEET 37
1,403				899				3,876					900				7,078			625	7,078	FT	CONDUIT, 2", AS PER PLAN	SP-103, CSD 4000
192								1,030									1,222			625	1,222	FT	CONDUIT, 3", AS PER PLAN	SP-103, CSD 4000
				1,082				64,626					5,000				70,708			625	70,708	FT	CONDUIT, 4", AS PER PLAN	CMSC, CSD 4000
				29				4,963									4,992			625	4,992	FT	CONDUIT, CONCRETE ENCASED, 2.3", 725.05, AS PER PLAN	SP-103, CSD 4001
4,436				208				278					650				5,572			625	5,572	FT	CONDUIT, CONCRETE ENCASED, 4.3", 725.05, AS PER PLAN	SP-103, CSD 4001
2,554				122				4,745					1,000				8,421			625	8,421	FT	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	SP-103, CSD 4000
								1,279									1,279			625	1,279	FT	CONDUIT, JACKED OR DRILLED, 4", AS PER PLAN	SP-103, CSD 4000
1,436				808				2,352									4,596			625	4,596	FT	CONDUIT, MISC.: 4" CONDUIT, FIBER-GLASS REINFORCED, ATTACHED TO STRUCTURE	SHEETS 35, 36, SP-103
													500				500			625	500	FT	CONDUIT, MISC.: CONDUIT REPAIR	SHEET 37, SP-103
	28				6				108				4				146			625	146	EACH	PULL BOX, 32", AS PER PLAN	SP-103, CSD 4022
	4				2				19				2				27			625	27	EACH	PULL BOX, 48", AS PER PLAN	SP-103, CSD 4023
															20		20			625	20	EACH	PULL BOX, MISC.: PULL BOX REPAIRED	SP-103
	1								1								2			625	2	EACH	PULL BOX REMOVED, AS PER PLAN	SP-103
	296												500				796			625	796	FT	TRENCH IN PAVED AREA, AS PER PLAN	SP-103, CSD 4000
	4,669				1,231				41,581				2,000				49,481			625	49,481	FT	TRENCH, 36" DEEP, AS PER PLAN	SP-103
	29				17				41								87			632	87	EACH	CONDUIT RISER, 3", 725.04, AS PER PLAN	SP-103, CSD 4050
	14				1								4				19			632	19	EACH	DOWN GUY	CMSC
		42				40				1			10				93			632	93	EACH	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE	SP-103
		65				53							18				143			632	143	EACH	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE	SP-103

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND DO NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

CIP: 540007–100005
PID NUMBER: 14522

GENERAL SUMMARY
1 OF 2

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

27
911

2953-E

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SUB SUMMARY												GENERAL NOTES					PARTICIPATION			ITEM	QUANTITY	UNIT	DESCRIPTION	REFERENCE
29	30	31	32	277	278	279	280	281	282	283	284	16	18	19	20	21	CMAQ	STP	LOCAL					
INTERCONNECT (CONTINUED)																								
		5				9				3								17		632	17	EACH	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 450FT DROP CABLE	SP-103
	242,829				209,914				47,097				3,000					301,704	201,136	632	502,840	FT	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	SP-103
		1,052								7,280								4,166	4,166	632	8,332	FT	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 144 STRAND, PRE-TERMINATED	SP-103
										1,907								1,907		632	1,907	FT	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND, PRE-TERMINATED	SP-103
										11								11		632	11	EACH	INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	SP-103
	3,066				1,207				14,047									18,320		632	18,320	FT	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	SP-103
										40,872			2,000					25,723	17,149	632	42,872	FT	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND	SP-103
										5,590								3,354	2,236	632	5,590	FT	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 72 STRAND	SP-103
		222																111	111	632	222	FT	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 72 STRAND, PRE-TERMINATED	SP-103
										8								8		632	8	EACH	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, 1 RU	SP-103
		4								13								9	8	632	17	EACH	INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU	SP-103
										21			2					12	11	632	23	EACH	INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU	SP-103
			158,772				150,410				22,126		2,000				333,308			632	333,308	FT	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	SP-103
			8				9										17			632	17	EACH	SIGNALIZATION, MISC.: AERIAL CLAMP, ATTACHED TO BRIDGE	SP-103
			5														5			632	5	EACH	SIGNALIZATION, MISC.: AERIAL STANDOFF, ATTACHED TO BRIDGE	SP-103
			2				13				19		5				39			632	39	EACH	WOOD POLE, CLASS 5, 35 FT	CMSC
		9								1							10			632	10	EACH	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 144 FIBER	SP-103
		12				4				12			6				34			632	34	EACH	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 144 FIBER	SP-103
		64				77				25			5				171			632	171	EACH	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	SP-103
		20				12				13			2					24	23	632	47	EACH	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 FIBER	SP-103
			1,774				1,880				1,488		200				5,342			632	5,342	FT	SIGNALIZATION, MISC.: CAT 5E CABLE, OUTDOOR RATED	SP-103
			8				8				2						18			633	18	EACH	CONTROLLER ITEM, MISC.: SPREAD SPECTRUM RADIO	SP-103
SIGNAL EQUIPMENT																								
4				1				1									6			625	6	EACH	BRACKET ARM, 30', AS PER PLAN	SP-103, CSD 4110
2,619																	2,619			625	2,619	FT	NO. 1/0 AWG 5000 VOLT DISTRIBUTION CABLE	CMSC
								1,346									1,346			625	1,346	FT	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	CMSC
				1,563				1,608									3,171			625	3,171	FT	NO. 3 AWG 600 VOLT DISTRIBUTION CABLE	CMSC
873								2,754					300				3,927			625	3,927	FT	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE	CMSC
					521				4,792				400				5,713			625	5,713	FT	NO. 6 AWG 600 VOLT DISTRIBUTION CABLE	CMSC
									918								918			625	918	FT	NO. 8 AWG 600 VOLT DISTRIBUTION CABLE	CMSC
	1				1				3								5			625	5	EACH	POWER SERVICE, TYPE A, AS PER PLAN	SHEETS 285 - 298, SP-103
									1								1			625	1	EACH	POWER SERVICE, TYPE B, AS PER PLAN	SHEETS 285 - 298, SP-103
									1								1			625	1	EACH	POWER SERVICE, TYPE C, AS PER PLAN	SHEETS 285 - 298, SP-103
									3								3			625	3	EACH	POWER SERVICE, TYPE D, AS PER PLAN	SHEETS 285 - 298, SP-103
									1								1			625	1	EACH	POWER SERVICE, TYPE F, AS PER PLAN	SHEETS 285 - 298, SP-103
									1								1			625	1	EACH	POWER SERVICE, TYPE G, AS PER PLAN	SHEETS 285 - 298, SP-103
	9				2				30				5				46			625	46	EACH	PULL BOX, 18", AS PER PLAN	CMSC
			1,194				839				476		200				2,709			632	2,709	FT	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SP-103
			8				8				3						19			632	19	EACH	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	SHEET 40, SP-103, CSD 4111
							4						2				6			632	6	EACH	SIGNALIZATION, MISC.: CELLULAR ETHERNET COMMUNICATIONS UNIT	CMSC
			3								1						5			633	5	EACH	CABINET, POLE MOUNTED, TYPE TS-2, AS PER PLAN	SP-103
			1														1			633	1	EACH	CABINET, GROUND MOUNTED, TYPE TS-2, AS PER PLAN	SP-103, CSD 4162
			2														2			633	2	EACH	CABINET, TYPE 334, AS PER PLAN	SP-103, CSD 4162
			48				58				6		5				117			633	117	EACH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	SP-103
NETWORK EQUIPMENT																								
											12						12			633	12	EACH	CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE	SHEET 41, SP-103
			224				185				115		40				564			633	564	EACH	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	SP-103
			4				4										8			633	8	EACH	CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE	SP-103
			97				93				12		20				222			633	222	EACH	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	SP-103
											13		2				15			633	15	EACH	CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH	SP-103
			42				30						5				77			633	77	EACH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	SP-103
												1					1			633	1	LS	SIGNALIZATION, MISC.: SYSTEM INTEGRATION	SP-103

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND ARE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

CIP: 540007–100005
PID NUMBER: 14522

GENERAL SUMMARY
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CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

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LOCATION	SHEET NO.	202 EXISTING CONDUIT CLEANED, AS PER PLAN (FT)	202 REMOVAL, MISC.: REMOVE EXISTING OVERHEAD EQUIPMENT (EACH)	202 REMOVAL, MISC.: REMOVE EXISTING WOOD POLE (EACH)	202 REMOVAL, MISC.: REMOVE MEDIAN BARRIER WALL (FT)	622 BARRIER, MISC.: MEDIAN BARRIER WALL (FT)	625 36" MEDIAN JUNCTION BOX (EACH)	625 BRACKET ARM, 30', AS PER PLAN (EACH)	625 CONDUIT, 2", AS PER PLAN (FT)	625 CONDUIT, 3", AS PER PLAN (FT)	625 CONDUIT, 4", AS PER PLAN (FT)	625 CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN (FT)	625 CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN (FT)	625 CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN (FT)	625 CONDUIT, JACKED OR DRILLED, 4", AS PER PLAN (FT)	625 CONDUIT, MISC.: 4" CONDUIT, FIBER-GLASS REINFORCED, ATTACHED TO STRUCTURE (FT)	625 NO. 1/0 AWG 5000 VOLT DISTRIBUTION CABLE (FT)	625 NO. 10 AWG 600 VOLT DISTRIBUTION CABLE (FT)	625 NO. 3 AWG 600 VOLT DISTRIBUTION CABLE (FT)	625 NO. 4 AWG 600 VOLT DISTRIBUTION CABLE (FT)
W. BROAD ST.	65																				
W. BROAD ST.	71	2,489						1													
W. BROAD ST.	76	3,680		3																	
W. BROAD ST.	82	3,650											43								
W. BROAD ST.	90	7,552								29											
W. BROAD ST.	96	5,677																			
FRONT ST.	99	2,060																			
SULLIVANT AVE.	106	40																			
SULLIVANT AVE.	113	8																			
SULLIVANT AVE.	122								9												
TOWN ST.	128																				
TOWN ST.	130																				
MOUND ST.	138																				
MOUND ST.	145	9						1													
MOUND ST.	149	225							40	149			76	428							
BUCHANAN DR.	155									14			384	256							
DEMOREST RD.	161	1,125																			
WILSON RD.	166	35						1													
WILSON RD.	172	48							7												
TRABUE RD.	178	6							90				1,374	656			1,212				
VALLEYVIEW DR.	183	321																			
HAGUE AVE.	187																				
HAGUE AVE.	192	131							14				1,226	488			224				
HAGUE AVE.	193																				
HARRISBURG PIKE	200								1,236				1,281	726				2,619			873
HARRISBURG PIKE	208	30																			
FRANK RD.	215	17																			
CENTRAL AVE.	222	13																			
McKINLEY AVE.	225												38								
GRANDVIEW AVE.	229	2,395																			
DUBLIN RD.	236	70																			
GREENLAWN AVE.	240	12							7												
GREENLAWN AVE.	243	7																			
HIGH ST.	250	1,148																			
HIGH ST.	253																				
FRONT ST.	258	2,092											14								
FRONT ST.	262	1,016	3																		
SUB TOTAL		**33,856**	**3**	**3**				**4**	**1,403**	**192**			**4,436**	**2,554**		**1,436**	**2,619**			**873**	

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CIP: 540007-100005
PID NUMBER: 14522

SUB SUMMARY
VOLUME 1 – SHEET 1A

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

2953-E

LOCATION	SHEET NO.	625 NO. 6 AWG 600 VOLT DISTRIBUTION CABLE FT	625 NO. 8 AWG 600 VOLT DISTRIBUTION CABLE FT	625 POWER SERVICE, TYPE A, AS PER PLAN EACH	625 POWER SERVICE, TYPE B, AS PER PLAN EACH	625 POWER SERVICE, TYPE C, AS PER PLAN EACH	625 POWER SERVICE, TYPE D, AS PER PLAN EACH	625 POWER SERVICE, TYPE E, AS PER PLAN EACH	625 POWER SERVICE, TYPE F, AS PER PLAN EACH	625 POWER SERVICE, TYPE G, AS PER PLAN EACH	625 PULL BOX, 18", AS PER PLAN EACH	625 PULL BOX, 32", AS PER PLAN EACH	625 PULL BOX, 48", AS PER PLAN EACH	625 PULL BOX, REMOVED, AS PER PLAN EACH	625 TRENCH, 36" DEEP, AS PER PLAN FT	625 TRENCH IN PAVED AREA, AS PER PLAN FT	632 CONDUIT RISER, 3", 725.04, AS PER PLAN EACH	632 DOWN GUY EACH	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND FT
W. BROAD ST.	65																			3,814	
W. BROAD ST.	71																		6	6,894	1,531
W. BROAD ST.	76																			4,741	
W. BROAD ST.	82														43		1			6,821	
W. BROAD ST.	90														29					9,157	
W. BROAD ST.	96											1		1						6,728	
FRONT ST.	99																			2,460	
SULLIVANT AVE.	106																			7,494	
SULLIVANT AVE.	113																			8,496	
SULLIVANT AVE.	122											1			9		1			12,366	194
TOWN ST.	128																			6,697	
TOWN ST.	130																			762	
MOUND ST.	138																		1	9,038	
MOUND ST.	145																			8,595	
MOUND ST.	149											2			245		2			4,153	150
BUCHANAN DR.	155											3			391		2	2		8,617	
DEMOREST RD.	161																2	2		6,565	
WILSON RD.	166																			5,813	
WILSON RD.	172											1			7		1			7,305	192
TRABUE RD.	178											5	2		1,416		4	1		10,158	
VALLEYVIEW DR.	183																2			7,358	
HAGUE AVE.	187																	2		6,669	
HAGUE AVE.	192											8			937	296	3			4,113	150
HAGUE AVE.	193																				
HARRISBURG PIKE	200			1							9	6			1,533		4			13,777	
HARRISBURG PIKE	208																			10,352	
FRANK RD.	215																			7,964	
CENTRAL AVE.	222																			8,567	
McKINLEY AVE.	225												1		38		2			2,710	
GRANDVIEW AVE.	229																1			5,430	
DUBLIN RD.	236																			10,825	
GREENLAWN AVE.	240											1			7		1			3,036	239
GREENLAWN AVE.	243																1			3,675	
HIGH ST.	250																			10,573	150
HIGH ST.	253																			1,397	223
FRONT ST.	258												1		14		2			7,810	237
FRONT ST.	262																			1,889	
SUB TOTAL				**1**							**9**	**28**	**4**	**1**	**4,669**	**296**	**29**	**14**		**242,829**	**3,066**

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PID NUMBER: 14522

SUB SUMMARY
VOLUME 1 – SHEET 1B

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

LOCATION	SHEET NO.	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 72 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 144 STRAND, PRE-TERMINATED	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND, PRE-TERMINATED	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 72 STRAND, PRE-TERMINATED	632 INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT	632 INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 144 FIBER	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 144 FIBER	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 FIBER	632 INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, 1 RU	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 450FT DROP CABLE	632 INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU
		FT	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
W. BROAD ST.	65							3,172				2								1	
W. BROAD ST.	71							4,359	2,489			2	2	1				4			
W. BROAD ST.	76							2,820	2,145		2		3				1	4			
W. BROAD ST.	82							1,996	3,643		3	1		1			4	2			
W. BROAD ST.	90								7,552				4				4				
W. BROAD ST.	96					222			2,031			1		1	2			2			
FRONT ST.	99																				
SULLIVANT AVE.	106							6,725	40			3		2				6			
SULLIVANT AVE.	113							6,821	8			3		1			2	3			
SULLIVANT AVE.	122							3,261				4		1			1	1			
TOWN ST.	128							1,184				3					1	2			
TOWN ST.	130											2						2			
MOUND ST.	138							3,308				3		1			3	2			
MOUND ST.	145							2,395				1		1				3			
MOUND ST.	149							2,918	8			3					1	1	1		
BUCHANAN DR.	155							2,004													
DEMOREST RD.	161							356	960		1	2					2		1		
WILSON RD.	166							5,119	15			3					3				
WILSON RD.	172						257	6,652	48			3		1				3	1		
TRABUE RD.	178						6,164					2					1		1		
VALLEYVIEW DR.	183						1,608	4,404				1						1			
HAGUE AVE.	187							3,057				1		1				3			
HAGUE AVE.	192										3	1						3			
HAGUE AVE.	193																				
HARRISBURG PIKE	200											1						1			
HARRISBURG PIKE	208							570	9			2		1			4				
FRANK RD.	215											2					1	1			
CENTRAL AVE.	222							6,809	13			2		2			3	3			
McKINLEY AVE.	225			184				2,000						1	2		1				
GRANDVIEW AVE.	229							1,533	344		2						1	1			
DUBLIN RD.	236							1,685				3		1			1	4			
GREENLAWN AVE.	240							1,748	12			3					2	1			
GREENLAWN AVE.	243							2,036	874			1					1				
HIGH ST.	250							3,076	19			4					2	4			
HIGH ST.	253							1,307				2					1	1			
FRONT ST.	258			868				4,210	2,084			1		3				3			
FRONT ST.	262						70		1,022		1	2					2	1			
SUB TOTAL				**1,052**		**222**	**8,099**	**95,527**	**23,336**		**12**	**64**	**9**	**20**	**4**		**42**	**65**	**5**		

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SUB SUMMARY
VOLUME 1 – SHEET 1C

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

LOCATION	SHEET NO.	632	632	632	632	632	632	632	632	633	633	633	633	633	633	633	633	633	633	633
		MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	SIGNALIZATION, MISC.: AERIAL CLAMP, ATTACHED TO BRIDGE	SIGNALIZATION, MISC.: AERIAL STANDOFF, ATTACHED TO BRIDGE	SIGNALIZATION, MISC.: CAT 5E CABLE, OUTDOOR RATED	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	SIGNALIZATION, MISC.: CELLULAR ETHERNET COMMUNICATIONS UNIT	WOOD POLE, CLASS 5, 35 FT	CABINET, GROUND MOUNTED, TYPE TS-2, AS PER PLAN	CABINET, POLE MOUNTED, TYPE TS-2, AS PER PLAN	CABINET, TYPE 334, AS PER PLAN	CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: SPREAD SPECTRUM RADIO	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN
		FT	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
W. BROAD ST.	65	3,390												2		1			1	
W. BROAD ST.	71	4,529				85	1							8		3			1	2
W. BROAD ST.	76	304												10		5			4	1
W. BROAD ST.	82	2,164			245									14		6			2	4
W. BROAD ST.	90													8		4			2	2
W. BROAD ST.	96				292									5		1		2	1	
FRONT ST.	99																			
SULLIVANT AVE.	106	6,907				304	1							10		4			3	1
SULLIVANT AVE.	113	7,245												8		4			2	2
SULLIVANT AVE.	122	10,486		5										8		4			1	3
TOWN ST.	128	5,526												6		3			3	
TOWN ST.	130	765	2											4		2			2	
MOUND ST.	138	7,402												8		4			2	2
MOUND ST.	145	7,124				221	1							6		2			1	1
MOUND ST.	149	2,961												7		3			1	2
BUCHANAN DR.	155	7,127																		
DEMOREST RD.	161	4,672				55	1				1			6	1	3			1	1
WILSON RD.	166	5,138				75	1							8		3			1	2
WILSON RD.	172	6,924				202	1							10		4				4
TRABUE RD.	178	957									1			4		2			1	1
VALLEYVIEW DR.	183	4,625												2		1				1
HAGUE AVE.	187	5,685												6		2			2	
HAGUE AVE.	192	2,052							1		1			6	1	3				
HAGUE AVE.	193																		1	1
HARRISBURG PIKE	200	8,771							1					2		1				1
HARRISBURG PIKE	208	9,018			172									8		3		1		3
FRANK RD.	215	7,334			45									4	1	3		1		
CENTRAL AVE.	222	7,080												11		4			1	3
McKINLEY AVE.	225	2,093										1		2		1				1
GRANDVIEW AVE.	229	1,556	2											4		2				2
DUBLIN RD.	236	9,599			114									12	1	4			2	1
GREENLAWN AVE.	240	2,168	4		584					1				6		3		3	3	
GREENLAWN AVE.	243	2,148			127									2		1		1	1	
HIGH ST.	250	7,362			195									10		5			1	4
HIGH ST.	253	1,407				136	1							4		2			1	1
FRONT ST.	258	4,273										1		7		2				2
FRONT ST.	262					116	1							6		2			1	
SUB TOTAL		**158,772**	**8**	**5**	**1,774**	**1,194**	**8**		**2**	**1**	**3**	**2**		**224**	**4**	**97**		**8**	**42**	**48**

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

CIP: 540007–100005
PID NUMBER: 14522

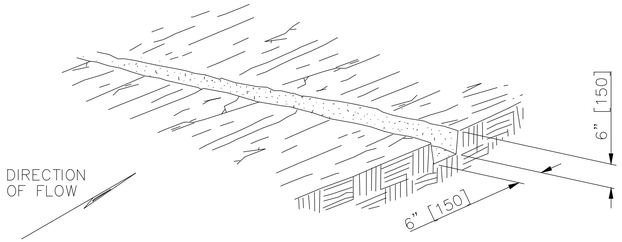
SUB SUMMARY
VOLUME 1 – SHEET 1D

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

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911

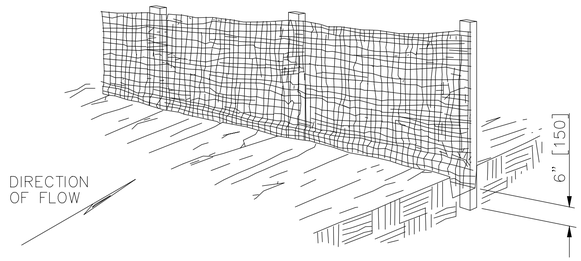
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PERIMETER FILTER FABRIC FENCE



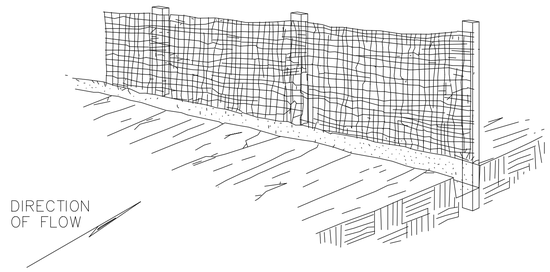
EXCAVATE A 6"X6" [150X150] TRENCH
ALONG THE PROPOSED FENCE LINE.

STEP 1



PLACE FABRIC AND SUPPORT STAKES
AND EXTEND FABRIC INTO THE TRENCH.

STEP 2



BACKFILL AND COMPACT THE EXCAVATED SOIL.

STEP 3

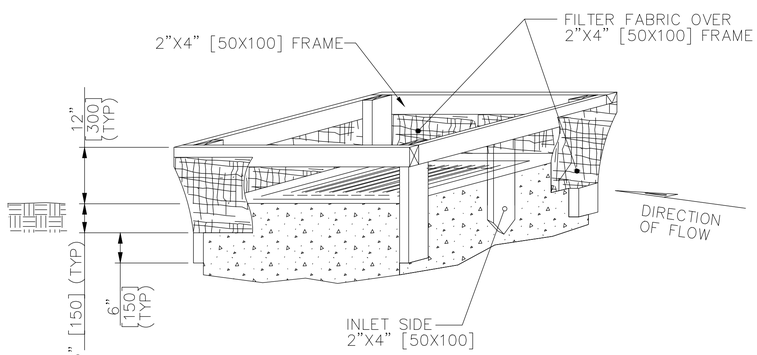
NOTES

MATERIALS:
FURNISH 30" [0.8 M] WIDE FILTER FABRIC WITH SOUND WOOD SUPPORTS WITH MAXIMUM ON-CENTER SPACING OF 10' [3.0 M]. USE FILTER FABRIC CONFORMING TO 712.09, TYPE C.

CONSTRUCTION:
TRENCH THE FILTER FABRIC FENCE AS DETAILED. THE CONTRACTOR MAY ELECT TO TRENCH THE FENCE DETAILED ON STEPS 1 THROUGH 3 IN ONE PLOWING OPERATION.

PAYMENT:
ALL LABOR AND MATERIALS REQUIRED FOR THE INSTALLATION OF PERIMETER FILTERS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF ITEM 207: ESC/SWP3 PAY ITEMS - AS PER PLAN.

INLET PROTECTION



INLET PROTECTION

NOTES

MATERIALS:
FURNISH INLET PROTECTION CONSISTING OF 18" [0.5 M] WIDE FILTER FABRIC FENCE WITH A SECURELY NAILED 2"X4" [50X100] WOOD FRAME WITH A VERTICALLY DRIVEN 2"X4" [50X100] ON THE INLET, OR FLOW, SIDE OF THE STRUCTURE. USE FILTER FABRIC CONFORMING TO 712.09, TYPE C.

CONSTRUCTION:
CONSTRUCT AN 18" [0.5 M] WIDE FILTER FABRIC FENCE SUPPORTED AROUND A STORM DRAIN INLET OR CATCH BASIN WITH A SECURELY NAILED 2"X4" [50X100] WOOD FRAME. EXCAVATE A 6" [150] TRENCH AROUND THE INLET, AND DRIVE SUPPORT POSTS 6" [150] BELOW THE EXCAVATED TRENCH BOTTOM. STRETCH THE FABRIC AROUND THE FRAME. SECURE IT TIGHTLY, ENSURING THAT 6" [150] OF FABRIC IS IN THE TRENCH. OVERLAP THE FABRIC ON ONE SIDE OF THE INLET SO THAT THE FABRIC ENDS ARE NOT ATTACHED TO THE SAME POST. BACKFILL AND COMPACT THE EXCAVATED SOIL TIGHTLY ONTO THE FABRIC. PLACE A VERTICAL 2"X4" [50X100] IN THE CENTER OF THE INLET SO THAT THE TOP IS AT THE TOP OF THE FENCE AND THE BOTTOM IS AT LEAST 6" [150] BELOW THE BOTTOM OF THE DITCH.

PAYMENT:
ALL LABOR AND MATERIALS REQUIRED, INCLUDING THOSE NOT SPECIFICALLY IDENTIFIED IN SS832, FOR THE INSTALLATION OF INLET PROTECTION SHALL BE CONSIDERED INCIDENTAL TO THE COST OF ITEM 207 - ESC/SWP3 PAY ITEMS - AS PER PLAN.

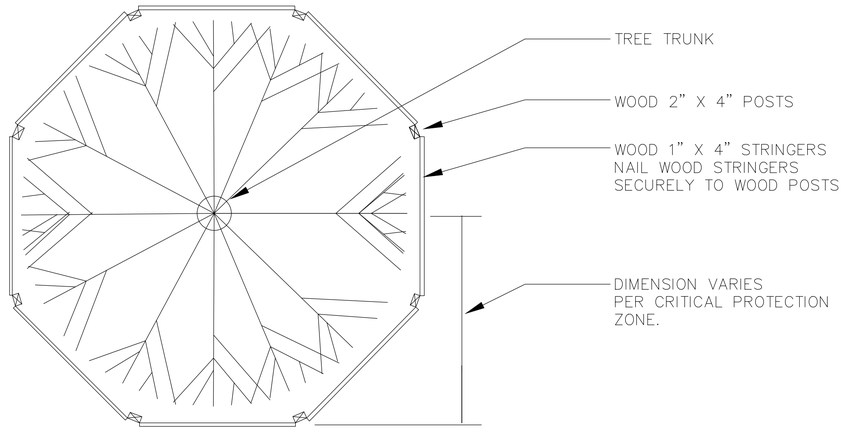
FEDERAL PROJECT NUMBER
E100(958)

CIP: 540007-100005
PID NUMBER: 14522

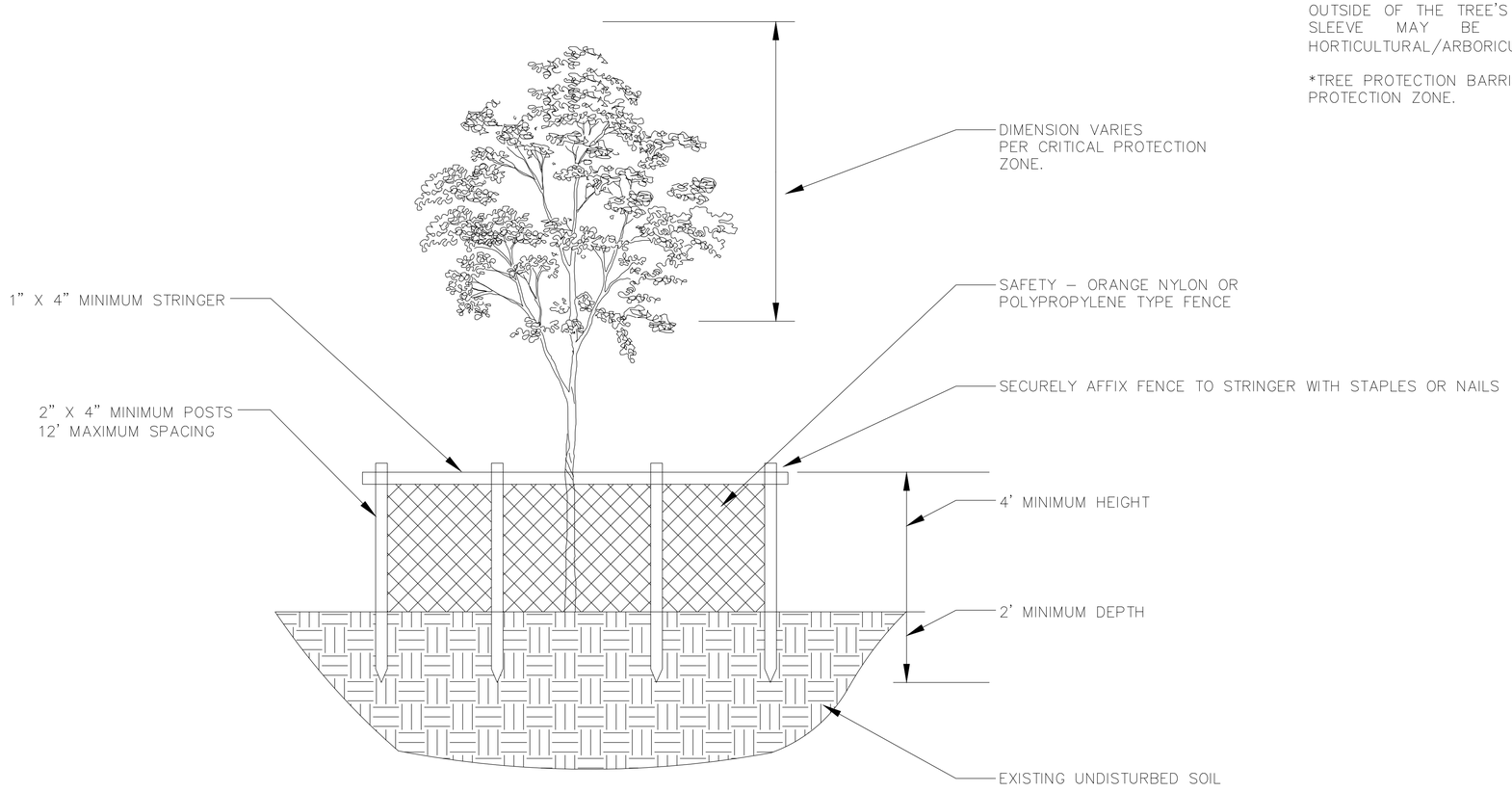
EROSION CONTROL
STANDARD DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

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NOTE: FOR GROUPS OF TREES PLACE BARRICADES BETWEEN TREES AND CONSTRUCTION ACTIVITY



NOTE:
1. FOR GROUPS OF TREES:
   A. PLACE THE BARRICADES AT THE DRIPLINE AROUND THE GROUPS PERIMETER.

2. INSTALLATION OF TREE PROTECTION BARRICADES SHALL BE PERFORMED BEFORE ANY SITE DEVELOPMENT ACTIVITY TAKES PLACE.

3. THE TREE PROTECTION BARRICADES SHALL REMAIN IN PLACE THROUGHOUT THE CONSTRUCTION PHASE AND UNTIL ALL SITE DEVELOPMENT ACTIVITIES ARE FULLY COMPLETE.

4. ANY DAMAGE THAT MAY OCCUR TO THE BARRICADES SHALL BE REPAIRED OR REPLACED TO THE ORIGINAL SPECIFICATIONS WITHIN 24 HOURS OF THE DAMAGE OCCURRING.

5. THE AREA WITHIN THE TREE PROTECTION BARRICADES SHALL NOT BE USED FOR THE STORAGE OF ANY MATERIALS, SUPPLIES OR DEBRIS OR THE DISPOSAL OF ANY SOLID, LIQUID OR GASEOUS MATERIALS THAT COULD CAUSE HARM TO THE TREES.

6. ANY TREE SCHEDULED TO REMAIN IF DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY PROVIDING EQUIVALENT MONETARY VALUE TO THE CITY'S TREE FUND.

7. MONETARY TREE VALUE SHALL BE DETERMINED BY USING THE GUIDE FOR PLANT APPRAISAL, PUBLISHED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE OR OTHER SOURCES AS DETERMINED BY THE CITY FORESTER.

8. BARRICADES SHALL PROTECT ALL TREES SCHEDULED TO REMAIN BEFORE AND DURING ALL CONSTRUCTION ACTIVITIES.

9. ANY PROPOSED UNDERGROUND UTILITIES SHALL BE ROUTED AROUND PROTECTED TREES TO THE OUTSIDE OF THE TREE'S DRIPLINE. IF THIS IS NOT FEASIBLE, AS DETERMINED BY THE COUNTY, A SLEEVE MAY BE USED UNDER THE TREE, PROVIDED THAT ALL ACCEPTABLE HORTICULTURAL/ARBORICULTURAL PRACTICES ARE ADHERED TO.

*TREE PROTECTION BARRICADES SHALL BE LOCATED TO PROTECT A MINIMUM OF 75% OF THE CRITICAL PROTECTION ZONE.

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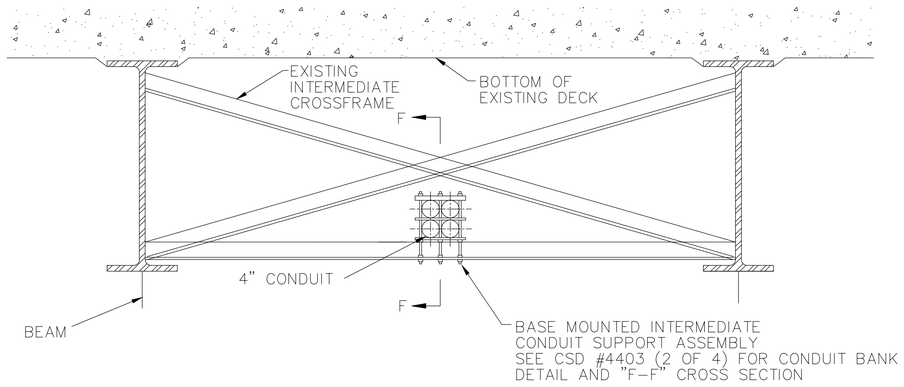
TREE PROTECTION BARRICADE
STANDARD DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

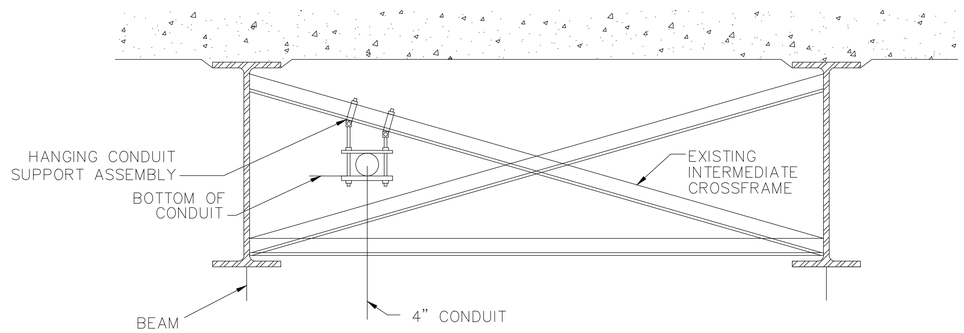
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2953-E

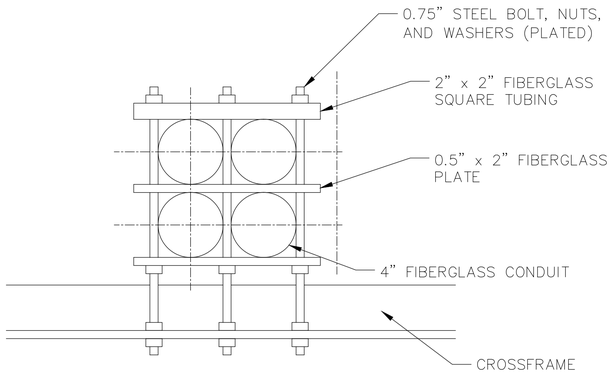
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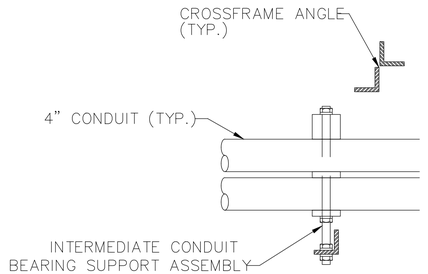
CONDUIT BEARING ATTACHMENT



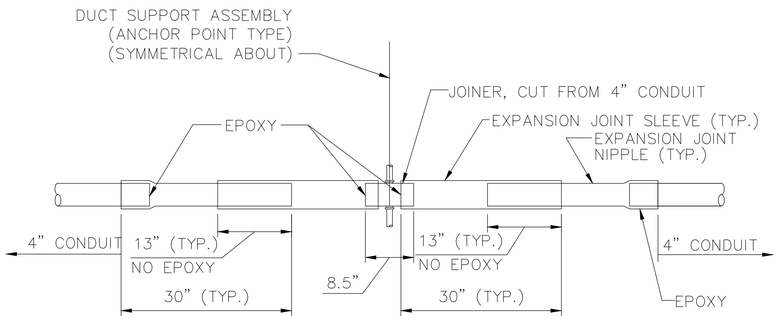
CONDUIT HANGING ATTACHMENT



CONDUIT BANK DETAIL

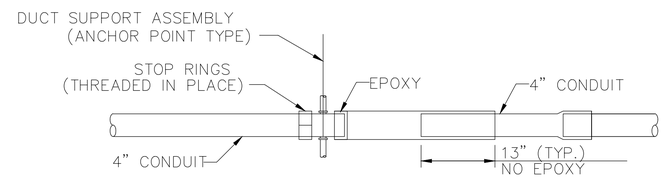


SECTION "F-F"



BACK-TO-BACK EXPANSION JOINT DETAIL

EXPANSION JOINT EVERY 150' AND AT
EACH RIGID ATTACHMENT - ENDS.



COMBINATION STOP RING AND EXPANSION JOINT

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

TYPICAL EXPANSION JOINT DETAILS

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FEDERAL PROJECT NUMBER
E100(958)

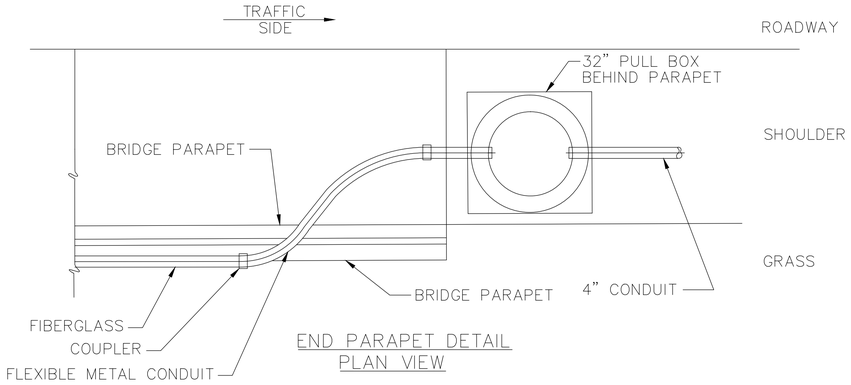
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PID NUMBER: 14522

CONDUIT ATTACHED TO STRUCTURE DETAILS

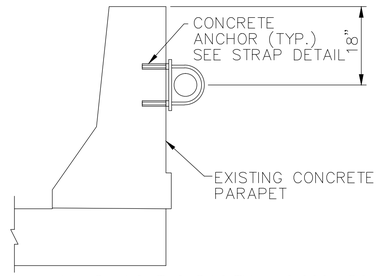
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

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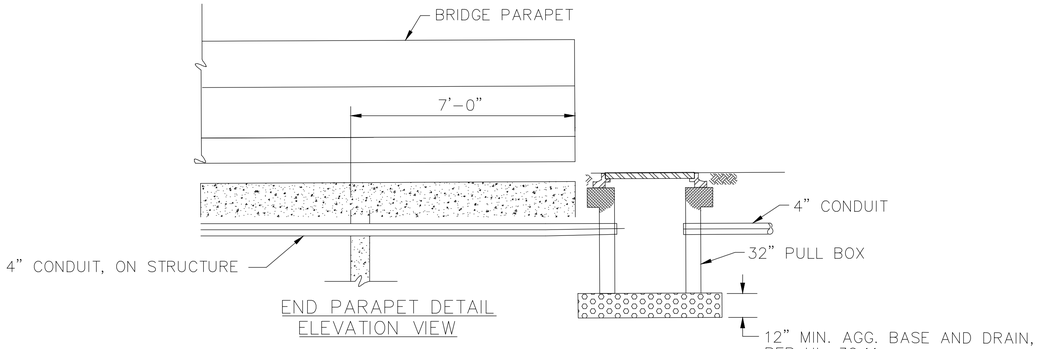


END PARAPET DETAIL
PLAN VIEW



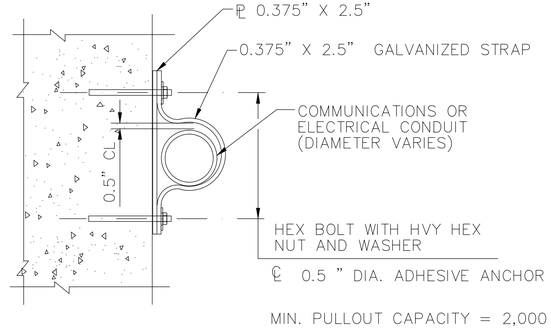
MIN. PULLOUT CAPACITY = 2,000 LBS.

CONDUIT ATTACHMENT TO
PARAPET OR BACK OF
BARRIER WALL



END PARAPET DETAIL
ELEVATION VIEW

TYPICAL CONDUIT
TREATMENT AT END OF BRIDGE PARAPET



MIN. PULLOUT CAPACITY = 2,000 LBS.

STRAP DETAIL
NOT TO SCALE

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

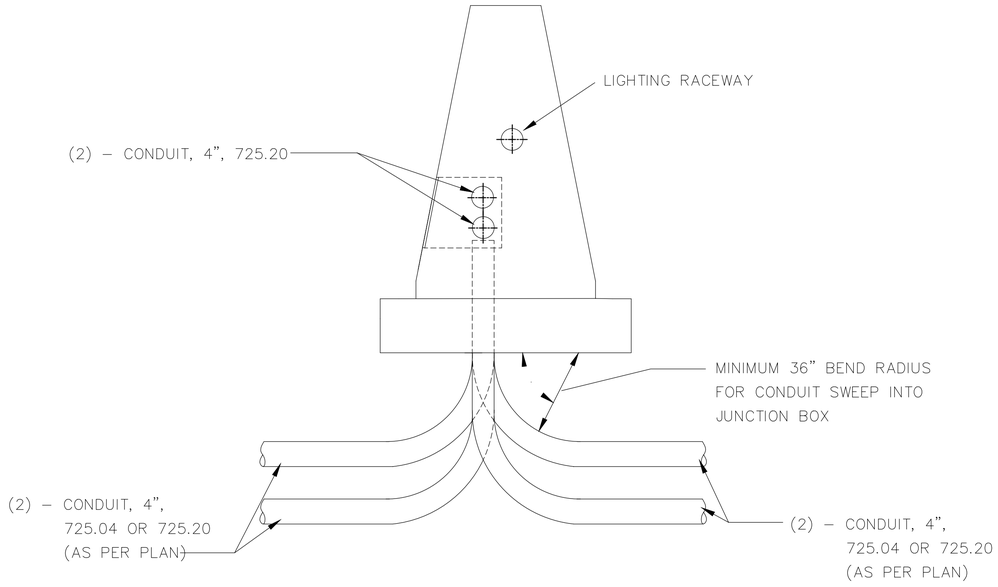
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E100(958)

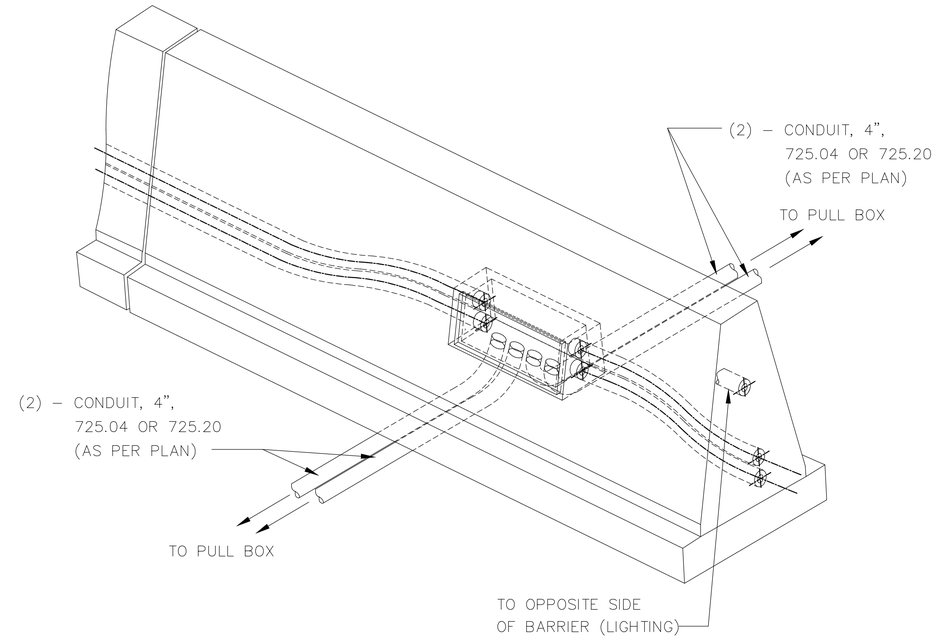
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PARAPET DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT



36" MEDIAN JUNCTION BOX, AS PER PLAN



NOTES

COST OF REFINISHING AROUND BOX IS INCIDENTAL TO THE COST OF BARRIER WALL JUNCTION BOX INSTALLATION

ITEM 625E MEDIAN JUNCTION BOX, AS PER PLAN

THE CONTRACTOR SHALL SUPPLY A PULL BOX THAT MEETS THE FOLLOWING SPECIFICATIONS:

SHALL BE OF TYPE POLYMER–CONCRETE AND SHALL MEET THE FOLLOWING SPECIFICATIONS:

SIZE: 17 INCHES (HEIGHT) X 30 INCHES (LENGTH)
MINIMUM WALL THICKNESS: 1/2 INCH
MINIMUM LID THICKNESS: 2 INCHES
ANSI TIER 22 RATING WITH A MINIMUM DESIGN LOAD OF 22,000 POUNDS

LID SHALL BE MARKED "TRAFFIC"

THE MEDIAN JUNCTION BOX SHALL BE SECURED IN THE MEDIAN BARRIER WALL USING DOWELS. (NON–SHRINK GROUT MAY BE USED WHEN NECESSARY)

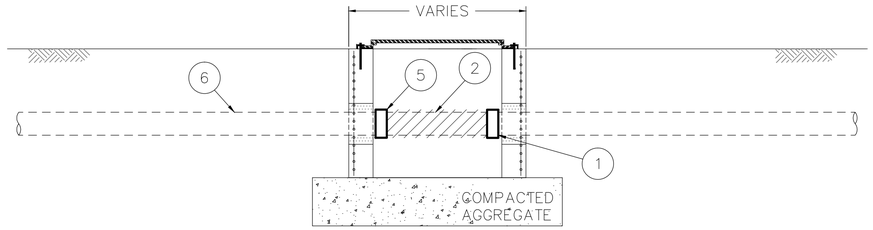
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0 40 80
HORIZONTAL SCALE IN FEET

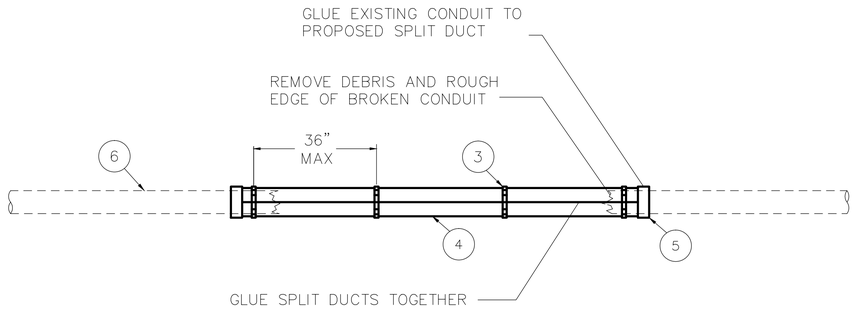
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PID NUMBER: 14522

TRAFFIC SURVEILLANCE
36" MEDIAN JUNCTION BOX DETAIL

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT



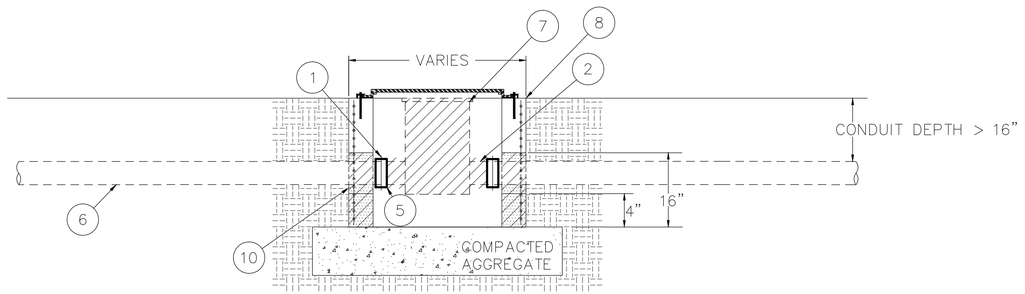
PROPOSED PULL BOX INTERCEPTING EXISTING CONDUIT RUN



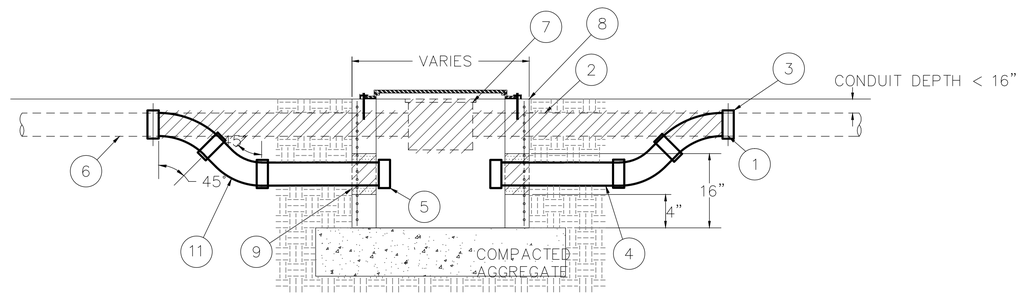
SPLIT DUCT CONDUIT REPAIR

1. CUT EXISTING CONDUIT
2. REMOVE EXISTING CONDUIT
3. CLAMP
4. PROPOSED SPLIT DUCT CONDUIT
5. CONDUIT BUSHING
6. EXISTING CONDUIT

* USE SPLIT DUCT CONDUIT AND BUSHINGS AS DIRECTED BY THE ENGINEER.



EXISTING PULLBOX W/ CONDUIT >16" BELOW SURFACE GRADE



EXISTING PULLBOX W/ CONDUIT <16" BELOW SURFACE GRADE

1. CUT EXISTING CONDUIT
2. REMOVE EXISTING CONDUIT
3. CONDUIT COUPLER
4. PROPOSED CONDUIT
5. CONDUIT BUSHING
6. EXISTING CONDUIT
7. REMOVE EXISTING PULLBOX
8. PROPOSED PULLBOX
9. REMOVE KNOCKOUT, INSERT CONDUIT, SEAL AROUND CONDUIT W/ MORTAR, COMPLETELY FILLING KNOCKOUT HOLE
10. REMOVE KNOCKOUT, LOWER PB OVER CONDUIT, SEAL AROUND CONDUIT W/ MORTAR, COMPLETELY FILLING KNOCKOUT HOLE
11. 45 DEGREE CONDUIT ELBOW

* USE SPLIT DUCT CONDUIT AND BUSHINGS AS DIRECTED BY THE ENGINEER.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

2953-E

FEDERAL PROJECT NUMBER E100(958)

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PID NUMBER: 14522

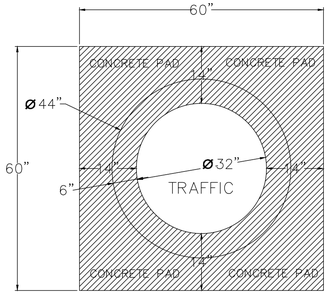
CONDUIT & PB DETAILS - INTERCEPTING EX. & REMOVE AND REPLACE EX. CONDUIT/SPLIT DUCT REPAIR & REMOVE AND REPLACE EX. PB

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE C - CONSTRUCTION AS-BUILT

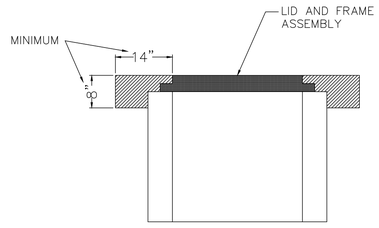
38
911

J:\Jobs\50806\TECHPROD\Sheets\ST_CTSS_002_Detail3.dwg - PB REMOVE AND REPLACE layout ~ last saved by: gburch 06/23/2016 03:58pm ~ printed 04/28/2017 04:24pm

ITEM 625 – PULL BOX, 725.08, 32", AS PER PLAN



TOP VIEW



SIDE VIEW

32" PULL BOX PAD

CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO ENSURE THAT THE LID AND RING (FRAME ASSEMBLY) ARE SECURE BEFORE POURING CONCRETE. EXPANSION MATERIAL SHALL BE PLACED BETWEEN LID AND RING (FRAME ASSEMBLY). CONTRACTOR SHALL INSPECT THE FRAME ASSEMBLY FOR ANY DEFICIENCIES AND/OR VOIDS PRIOR TO POURING CONCRETE. ALL VOIDS SHALL BE FILLED PRIOR TO POURING PAD. ALL DEFICIENCIES SHALL BE REPORTED TO ODOT PERSONNEL ON SCENE SO THAT PROMPT CORRECTIONS CAN BE MADE. WORKPADS SHALL BE SLOPED SO THAT ALL SIDES ARE EVEN WITH THE GROUND. CONTRACTOR SHALL ENSURE THAT ALL DEBRIS AND EXCESS CONCRETE IS REMOVED FROM THE INSIDE OF THE RING SO THAT THE LID CAN BE EASILY BE REMOVED AND REPLACED.

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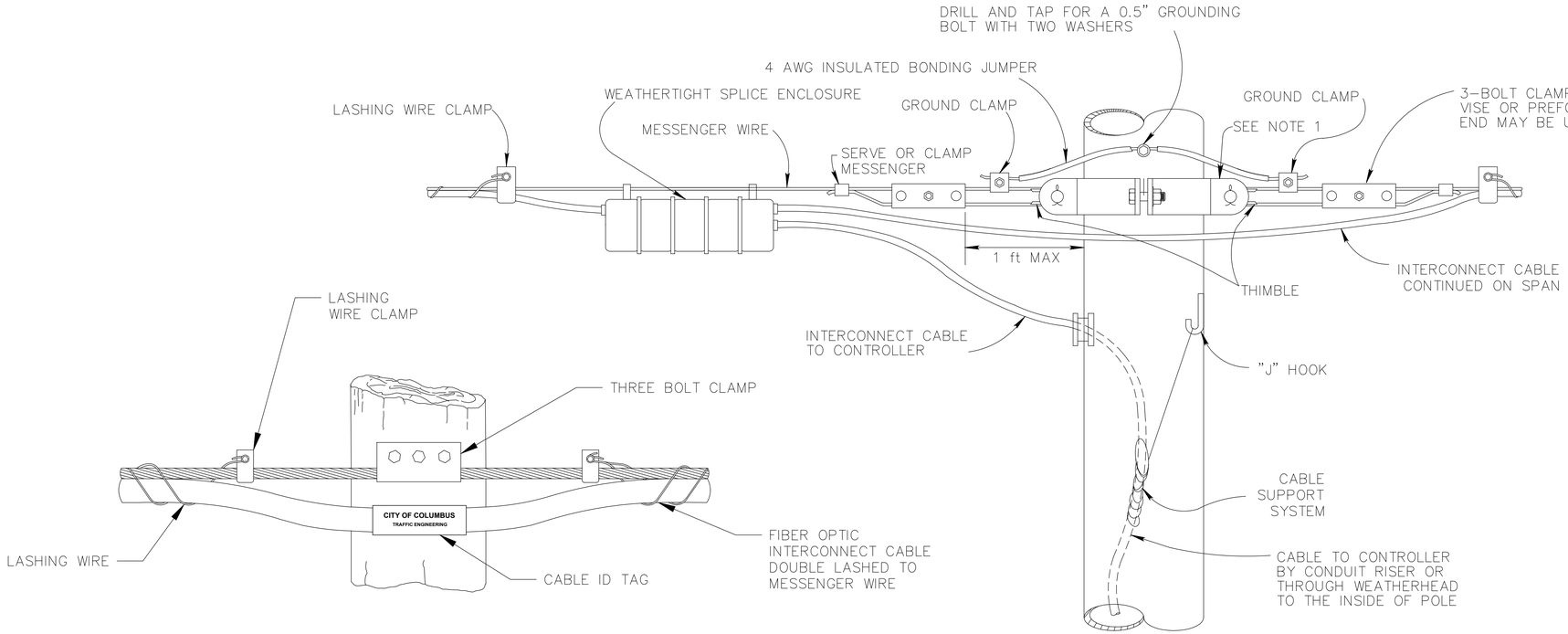
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CIP: 540007–100005
PID NUMBER: 14522

32" PULLBOX PAD DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

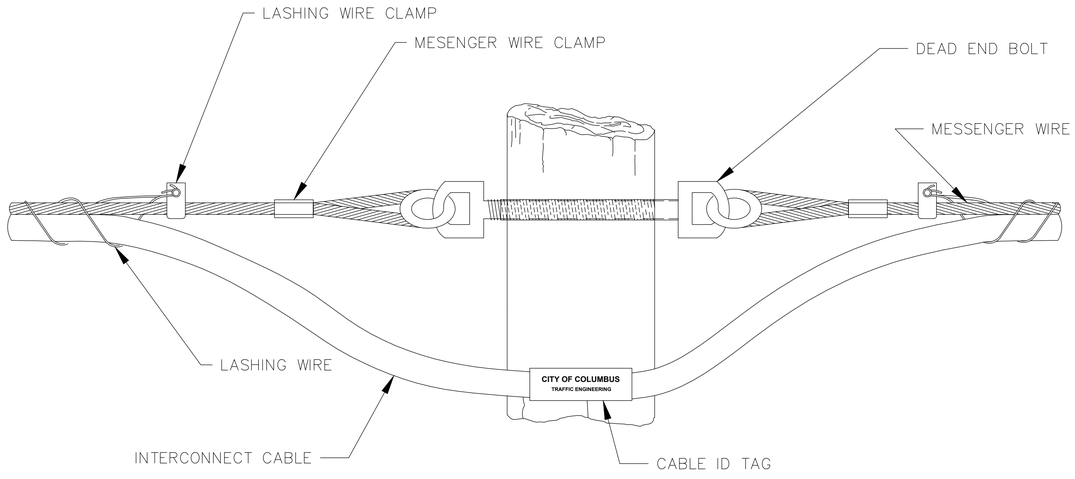


MESSENGER WIRE WITH ACCESSORIES – THREE BOLT CLAMP – WOOD POLE

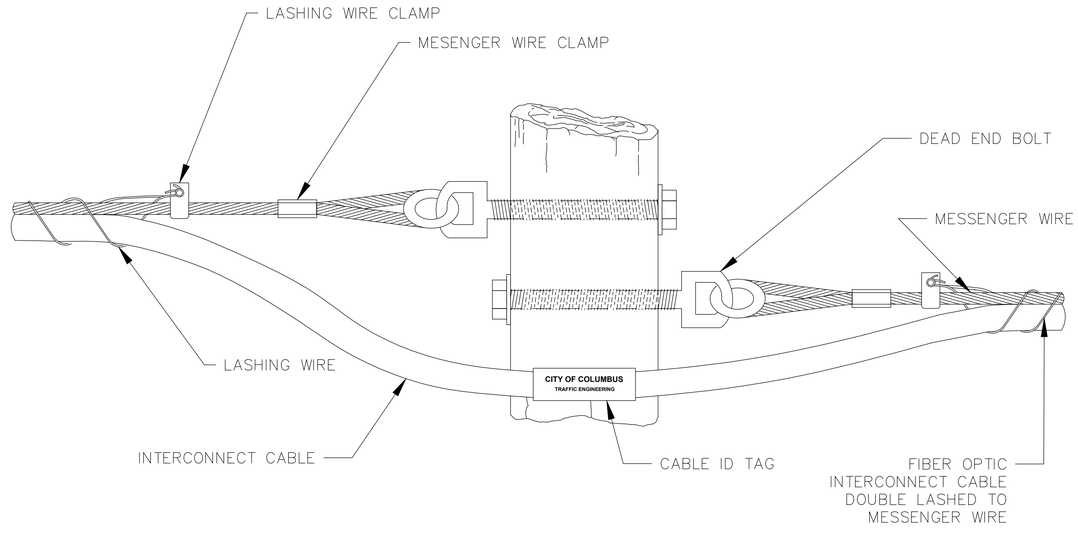
MESSENGER WIRE WITH ACCESSORIES – STRAIN POLE

NOTES

1. MESSENGER WIRE POLE ATTACHMENT SHALL BE BY A POLE CLAMP ON STEEL POLES AND BE A 0.625 INCH THRU-BOLT (OR THIMBLE-EYE BOLT) WITH WASHERS ON WOOD POLES.
2. THE INTERCONNECT CABLE SHALL HAVE A SAG BETWEEN APPROXIMATELY 1.5% OR MATCH EXISTING UTILITY LINES.
3. THE MINIMUM 3-BOLT SIZE GALVANIZED CLAMP SHALL BE 6 INCHES LONG WITH 0.5 INCH DIAMETER BOLTS. PERFORMED GUY GRIPS SHALL NOT BE USED TO ATTACH THE MESSENGER WIRE TO THE SIGNAL POLES. THEIR USE IS LIMITED TO BULLRING ATTACHMENTS.
4. THE POWER SERVICE AERIAL CABLES WITH MESSENGER WIRE AND SPLICES SHALL BE PROVIDED BY THE APPROPRIATE POWER UTILITY AS INDICATED ON THE PLANS UNLESS OTHERWISE SPECIFIED.
5. PROVIDE A CLEVIS WITH INSULATOR ATTACHED TO THE WOOD POLE BY MEANS OF A 0.625 INCH THRU-BOLT FOR ATTACHMENT OF THE UTILITY PROVIDED POWER SERVICE AERIAL CABLES WITH MESSENGER WIRE.
6. FOR ALL AERIAL SPANS CROSSING ROADWAYS, THE CONTRACTOR SHALL INSTALL MESSENGER WIRE USING A DOUBLE DEAD END BOLT ASSEMBLY ON BOTH ENDS OF THE MESSENGER WIRE IN PLACE OF A POLE CLAMPS.
7. THIS METHOD OF ENTERING STRAIN POLE IS APPLICABLE ONLY TO LOOSE BUFFER TUBE CABLES WITH 24 FIBER STRANDS OR LESS. INSTALLER MUST ENSURE MINIMUM LOADED BEND RADII OF CABLES ARE NOT EXCEEDED DURING INSTALLATION.



MESSENGER WIRE WITH DOUBLE DEAD END BOLT ATTACHMENTS – WOOD POLE



MESSENGER WIRE WITH OFFSET DOUBLE DEAD END BOLT ATTACHMENTS – WOOD POLE

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FEDERAL PROJECT NUMBER E100(958)

CIP: 540007-100005
PID NUMBER: 14522

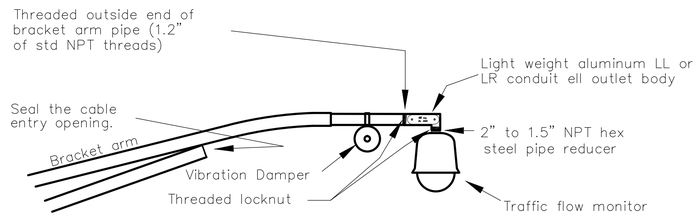
MESSENGER WIRE ATTACHMENT DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE C - CONSTRUCTION AS-BUILT

40
911

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Run the Traffic Flow Monitor cable in the top arm bracket.



All mounting hardware color coated to match bracket arm color.

LL/LR Conduit Ell Specs

- threaded body (NPT) with non-corrosive hardware
- 48 cu." interior area
- flat cover with solid neoprene gasket
- cover opening – 6" x 2.4"
- light weight aluminum body
- provide #10 rubber stopper for outgoing cable; enlarge stopper hole as needed just enough to fit cable diameter

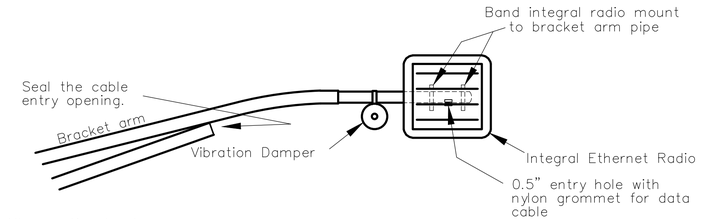
TRAFFIC FLOW MONITOR MOUNTING PROCEDURE

NOT TO SCALE

NOTES

- REFER TO CSD 4110 FOR BRACKET ARM DETAILS.
- REFER TO CSD 4122 FOR VIBRATION DAMPENER DETAILS.

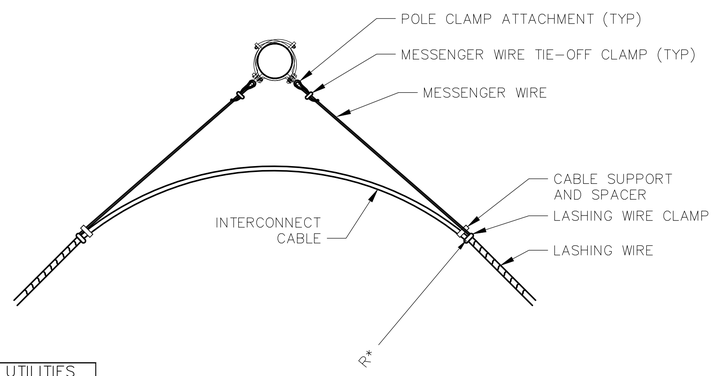
Run the Integral Ethernet Radio cable in the top arm bracket.



All mounting hardware color coated to match bracket arm color.

INTEGRAL ETHERNET RADIO MOUNTING PROCEDURE

NOT TO SCALE

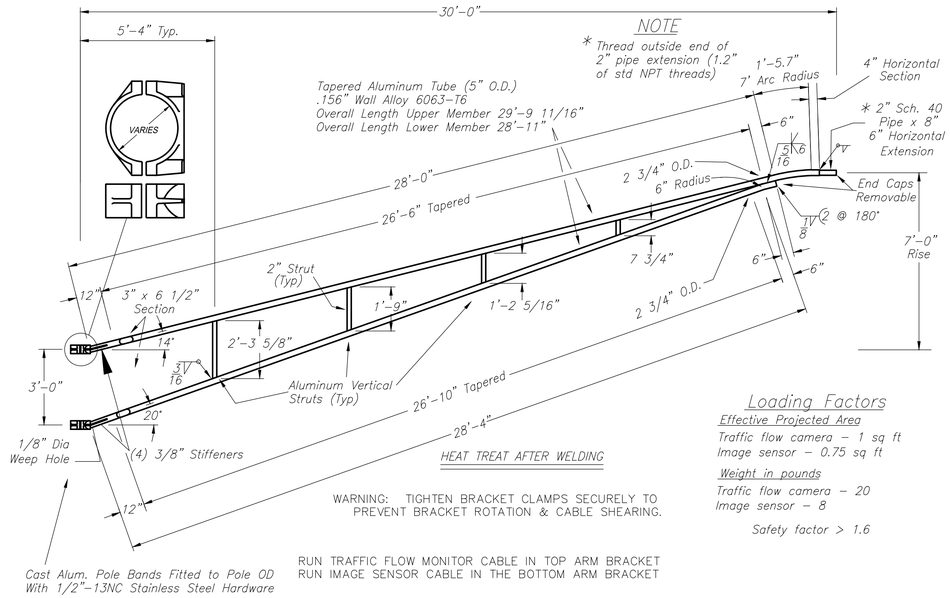


CABLE BEND AT STRAIN POLE

NOT TO SCALE

R* – DO NOT EXCEED MINIMUM BENDING RADIUS OF INTERCONNECT CABLE. REFER TO SP-103 FOR MINIMUM BENDING RADIUS VALUES.

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Loading Factors

Effective Projected Area

Traffic flow camera – 1 sq ft

Image sensor – 0.75 sq ft

Weight in pounds

Traffic flow camera – 20

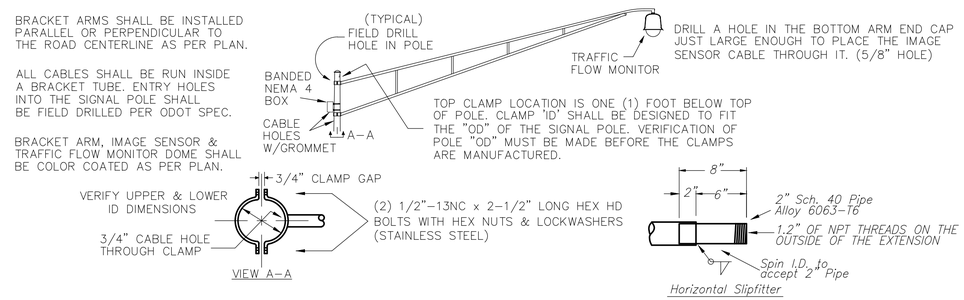
Image sensor – 8

Safety factor > 1.6

BRACKET ARMS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO THE ROAD CENTERLINE AS PER PLAN.

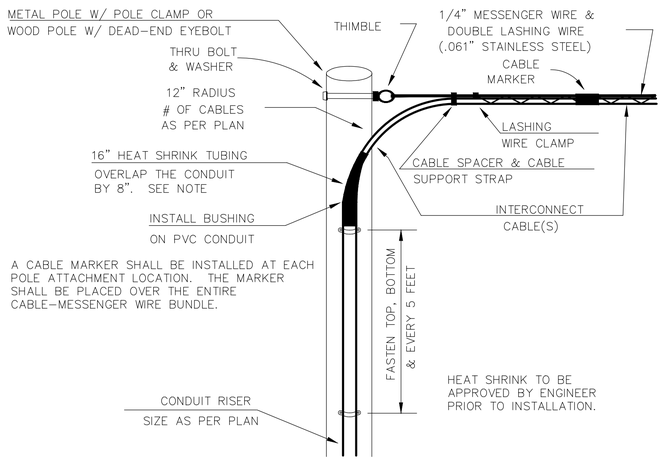
ALL CABLES SHALL BE RUN INSIDE A BRACKET TUBE. ENTRY HOLES INTO THE SIGNAL POLE SHALL BE FIELD DRILLED PER ODOT SPEC.

BRACKET ARM, IMAGE SENSOR & TRAFFIC FLOW MONITOR DOME SHALL BE COLOR COATED AS PER PLAN.



MOUNTING BRACKET ARM

NOT TO SCALE



MODIFIED CONDUIT RISER DETAIL

NOT TO SCALE

2953-E

FEDERAL PROJECT NUMBER E100(958)

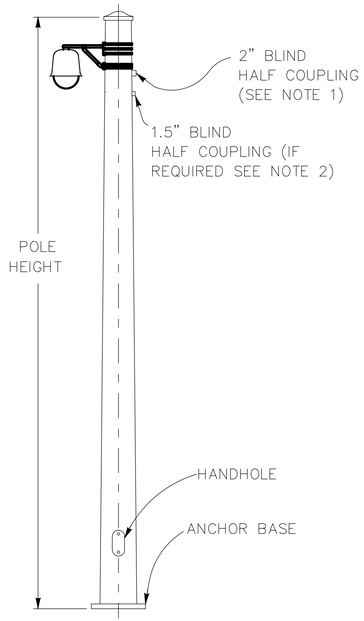
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PID NUMBER: 14522

BRACKET ARM AND STRAIN POLE TIE OFF

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE C – CONSTRUCTION AS-BUILT

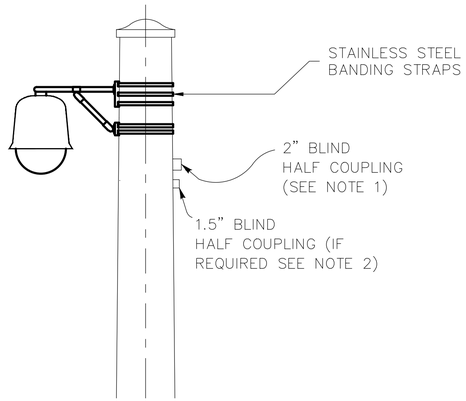
41
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STRAIN POLE

NOT TO SCALE



DETAIL STRAIN POLE & BRACKET

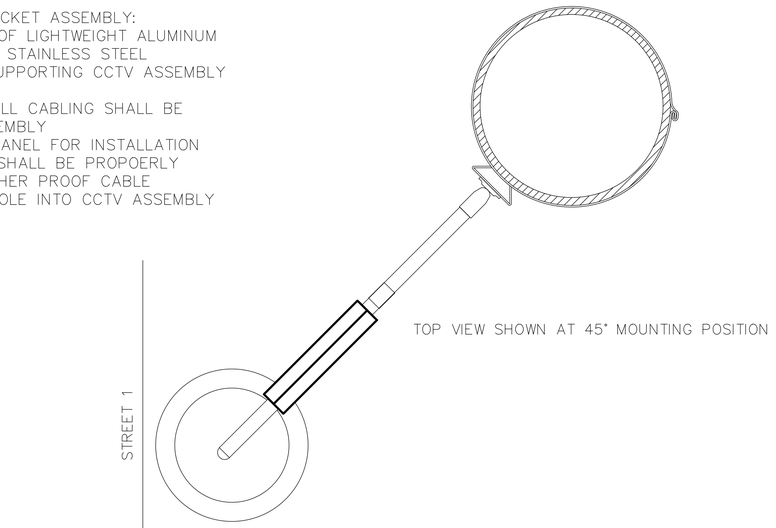
NOT TO SCALE

NOTES

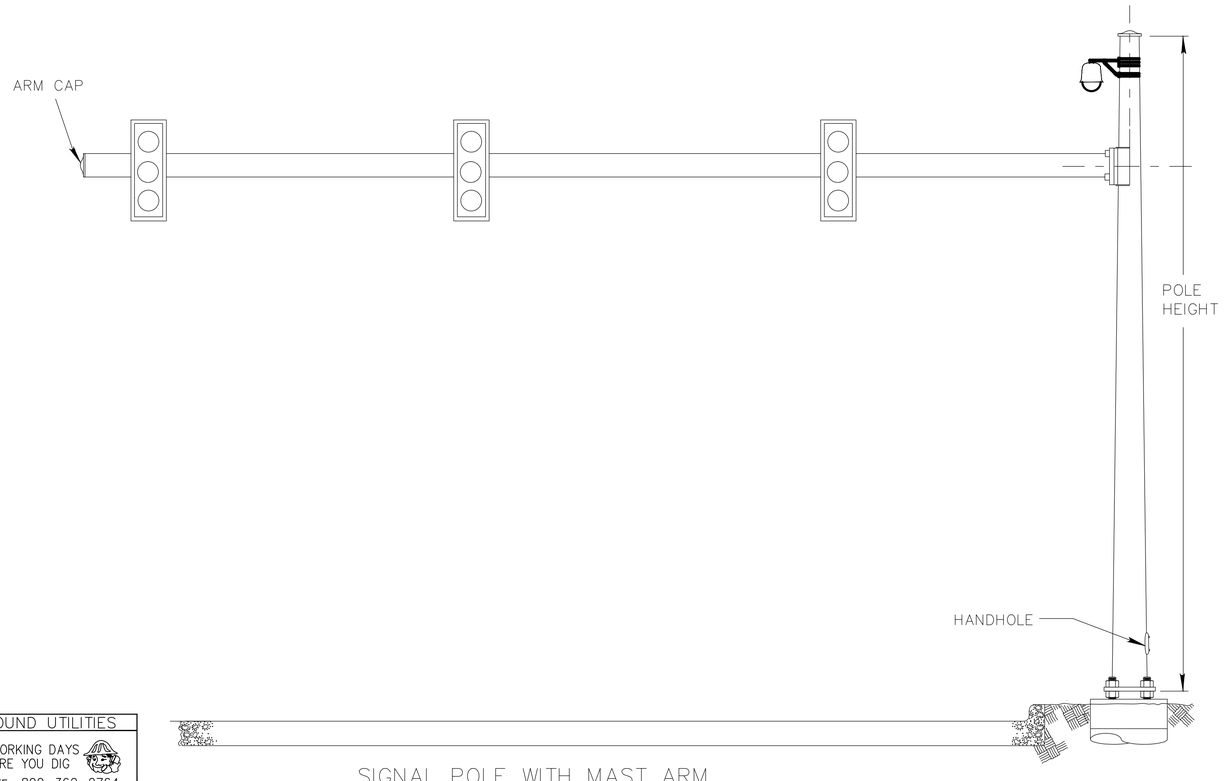
1. CAMERA CABLE ENTRANCE SHALL BE A 2 INCH BLIND HALF COUPLING PROVIDED IN EACH POLE.
2. SERVICE WIRE ENTRANCE SHALL BE A 1.5 INCH BLIND HALF COUPLING, WHEN REQUIRED BY THE PLANS. ORIENTATION AND HEIGHT SHALL BE AS REQUIRED BY THE PLANS.
3. CAMERA/CCTV DEVICES TO BE MOUNTED AT 45 DEGREES FROM EDGE OF PAVEMENT, OR AT THE DIRECTION OF THE ENGINEER.

POLE MOUNTED CAMERA BRACKET ASSEMBLY:

4. SHALL BE CONSTRUCTED OF LIGHTWEIGHT ALUMINUM
5. ALL HARDWARE SHALL BE STAINLESS STEEL
6. SHALL BE CAPABLE OF SUPPORTING CCTV ASSEMBLY UNITS UP TO 75LBS
7. NO EXPOSED CABLES – ALL CABLING SHALL BE HIDDEN BY BRACKET ASSEMBLY
8. SHALL INCLUDE ACCESS PANEL FOR INSTALLATION
9. ALL CONNECTION POINTS SHALL BE PROPOERLY SEALED TO ENSURE WEATHER PROOF CABLE PATHWAY FROM SIGNAL POLE INTO CCTV ASSEMBLY UNIT.

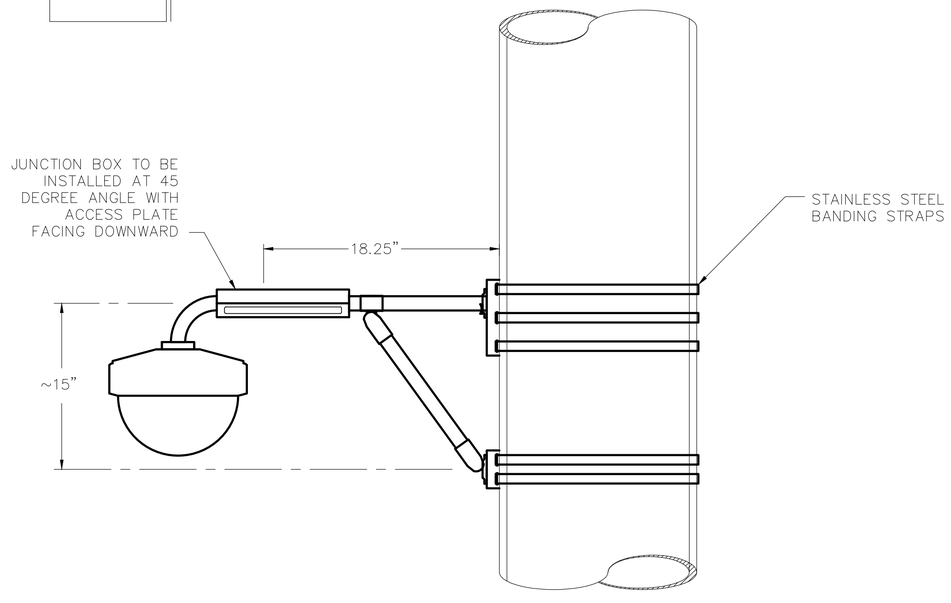


TOP VIEW SHOWN AT 45° MOUNTING POSITION



SIGNAL POLE WITH MAST ARM

NOT TO SCALE



DETAIL POLE ADAPTERS & BRACKET

NOT TO SCALE

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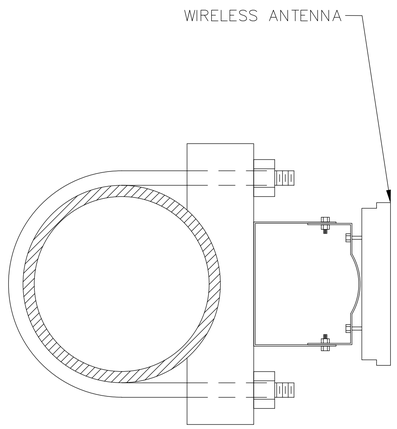
CIP: 540007-100005
PID NUMBER: 14522

CCTV INSTALLATION AND STRAIN POLE DETAILS

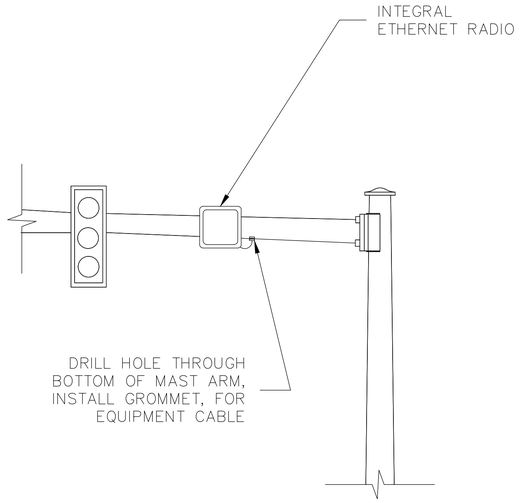
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE C – CONSTRUCTION AS-BUILT

42
911

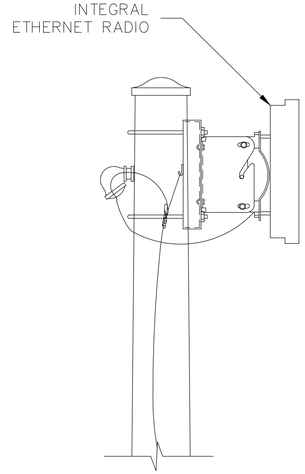
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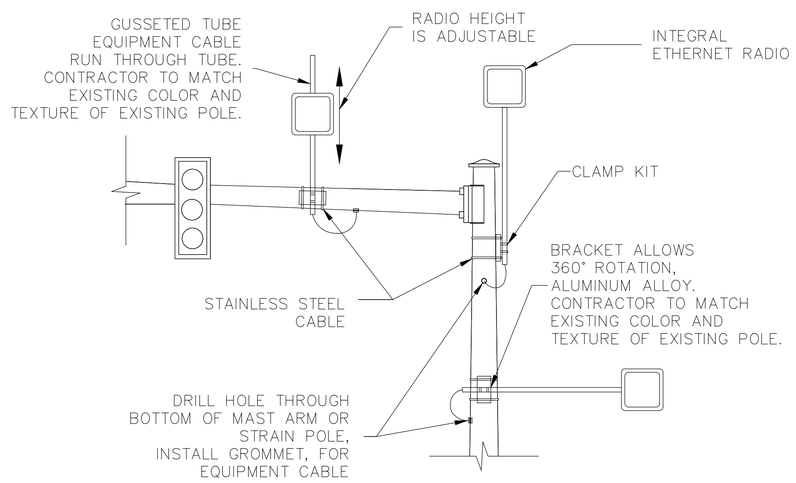
TYPICAL WIRELESS
MOUNTING BRACKET DETAIL
TOP VIEW



TYPICAL WIRELESS MOUNTING
TO MAST ARM DETAIL
FRONT VIEW



TYPICAL WIRELESS MOUNTING
TO POLE DETAIL
SIDE VIEW



TYPICAL WIRELESS MOUNTING
TO POLE EXTENSION DETAIL
FRONT VIEW

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FEDERAL PROJECT
NUMBER
E100(958)

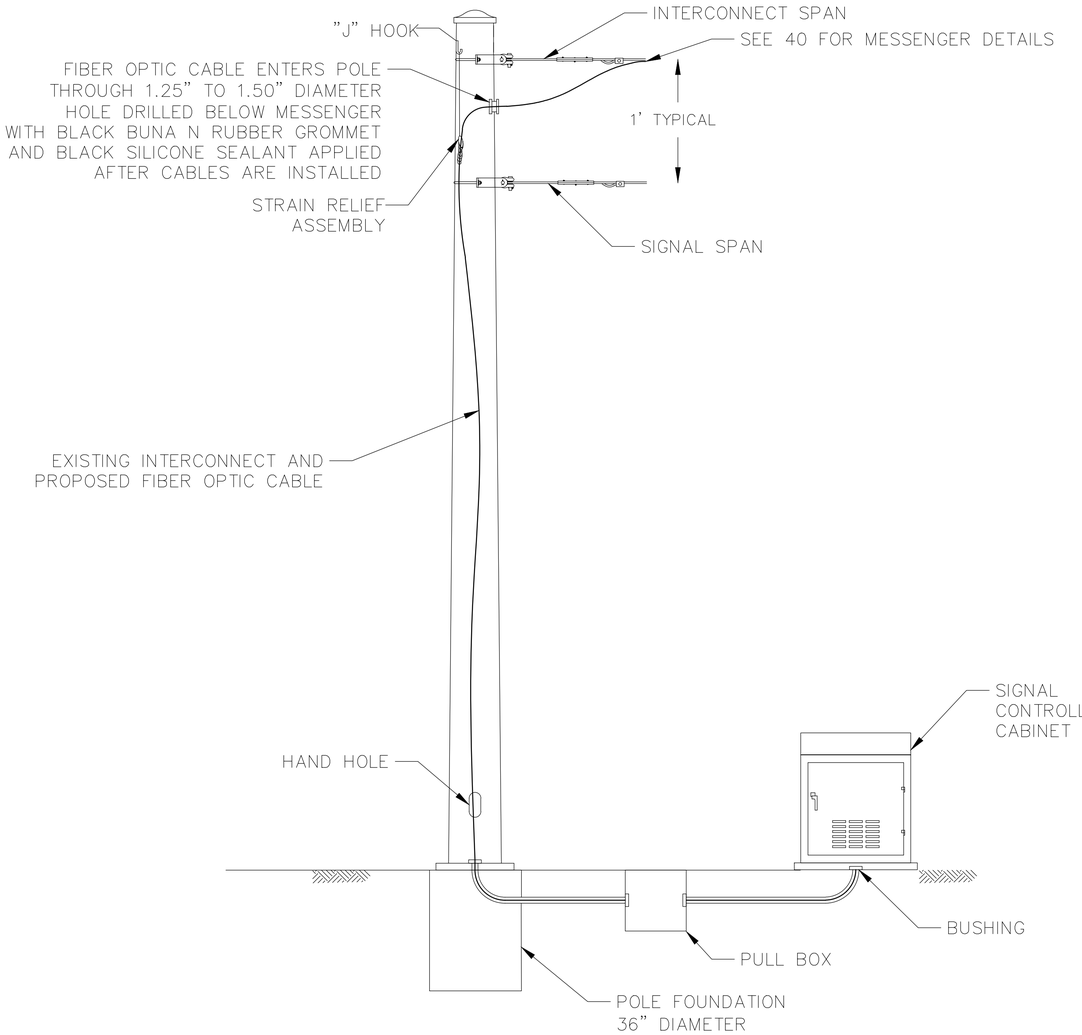
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PID NUMBER: 14522

WIRELESS MOUNTING DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

43
911

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AERIAL SPAN TO
GROUND MOUNTED CABINET
THROUGH POLE

NOTES:

PROPOSED INTERCONNECT CABLE TO BE INSTALLED THROUGH DRILLED HOLE AS IDENTIFIED IN PLANS OR AS DIRECTED BY ENGINEER AND IS TO BE PAID INCIDENTAL TO DROP.

FIELD VERIFY CONDUIT BENDS ARE OF SUFFICIENT RADIUS TO PREVENT DAMAGE TO FIBER OPTIC CABLE.

NOT TO SCALE.

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FEDERAL PROJECT NUMBER
E100(958)

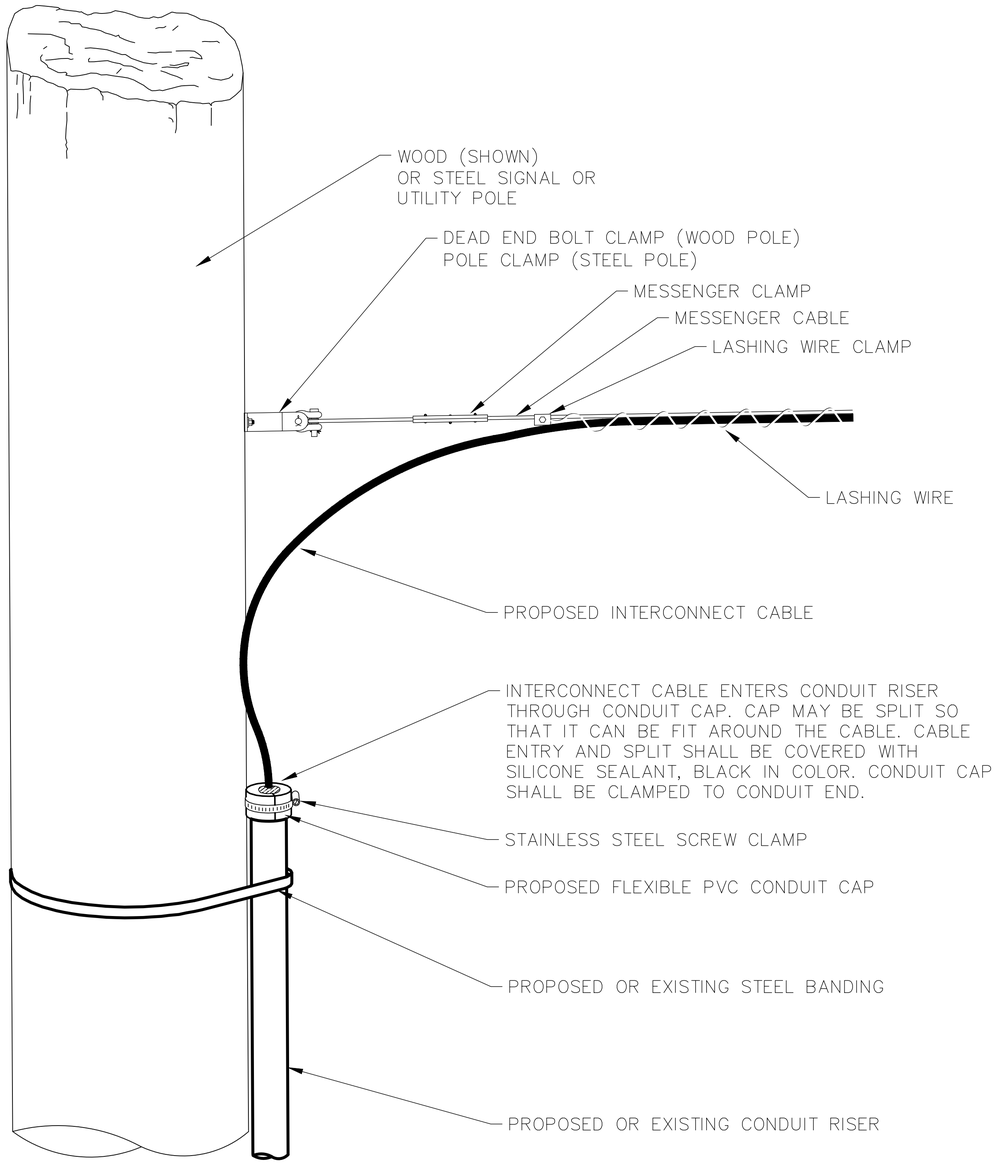
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PID NUMBER: 14522

AERIAL DROP CABLE INSTALLATION
SIGNAL POLE

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

44
911

J:\Joba\50806\TECHPROD\Sheets\ST_CTSS_002_Detail8.dwg - AERIAL COM VIA POLE layout ~ last saved by: rfrapp 12/09/2014 04:04pm ~ printed 04/28/2017 04:24pm



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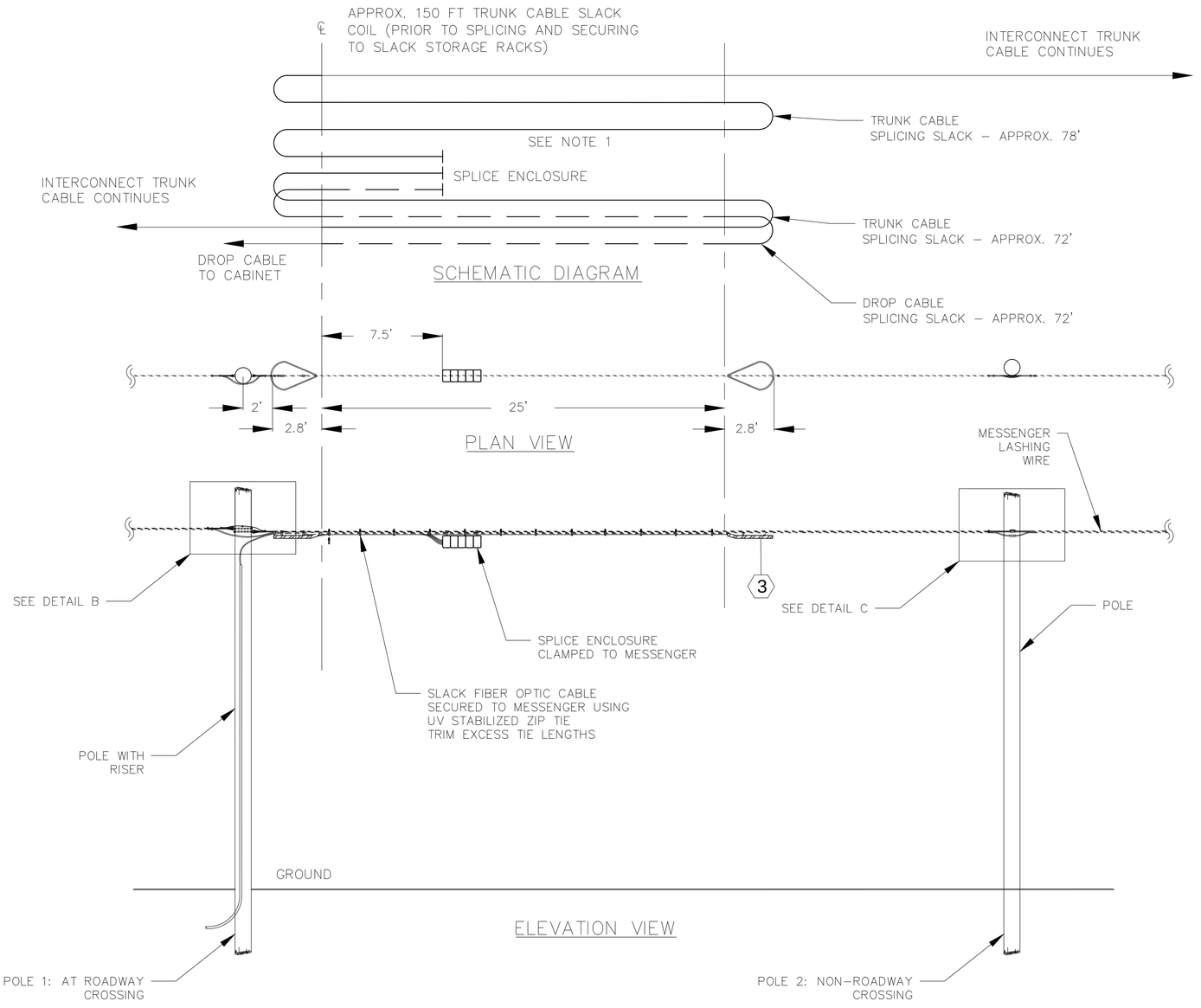
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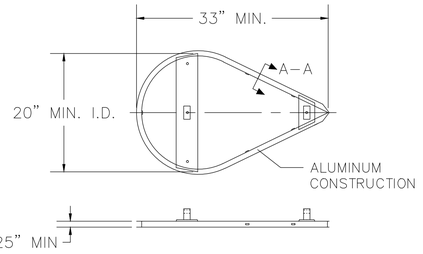
AERIAL DROP CABLE INSTALLATION
EMBEDDED POLE/WOOD POLE

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

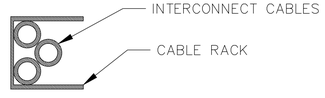
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911

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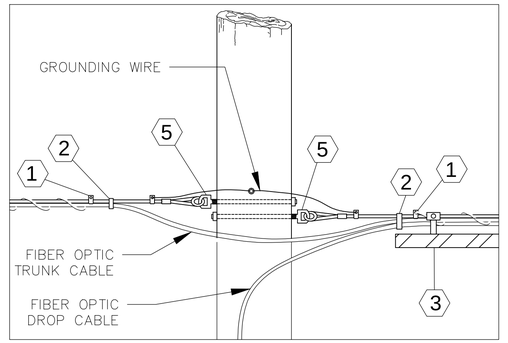




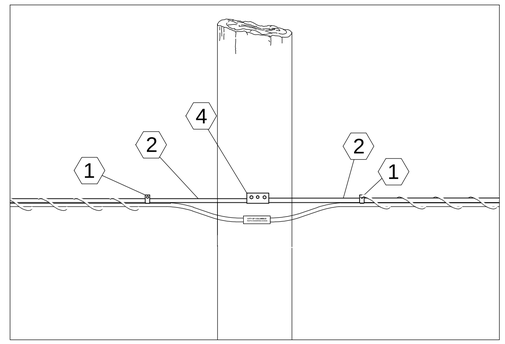
DETAIL A



A–A VIEW



DETAIL B



DETAIL C

1. MESSENGER/LASHING WIRE CLAMP
2. CABLE SUPPORT AND SPACER
3. CABLE STORAGE RACK, CLAMPED TO MESSENGER, SEE NOTE #2 AND DETAIL A
4. THREE BOLT CLAMP
5. DEAD END BOLT

NOTES

1. BOLD LINE INDICATED COILED SLACK PORTION OF CABLES

2. INSTALLATION AND DIMENSIONS AS SHOWN ARE TYPICAL AND WILL VARY BETWEEN SITES. MANUAL ADJUSTMENT OF SPACING BETWEEN RACKS AND PLACEMENT OF SPLICE ENCLOSURE WILL BE REQUIRED IN FIELD TO ENSURE ALL CABLES AND HARDWARE IS SECURELY FASTENED TO AERIAL SPAN

3. SPARE CABLE SHALL NOT BE STORED OVER ROADWAYS OR DRIVEWAYS AND SHALL BE 10 FEET (MINIMUM) FROM POLES AT SIGNALIZED INTERSECTIONS.

4. FOR FIBER OPTIC CABLE STORE A MINIMUM OF 75 FEET OF EACH CABLE ENTERING THE ADJACENT SPLICE ENCLOSURE OR AS SHOWN ON PLANS.

5. MINIMUM INTERNAL DIAMETER OF 20", MINIMUM LENGTH OF 34", MINIMUM HEIGHT OF 1.25" FOR ALL STORAGE RACKS

6. THE COST OF THE STORAGE RACKS, HARDWARE, AND ACCESSORIES ARE CONSIDERED INCIDENTAL TO AERIAL CABLE INSTALLATION BID ITEMS.

7. CABLE STORAGE RACKS SHALL BE USED FOR ALL AERIAL INTERCONNECT CABLE SLACK STORAGE.

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FEDERAL PROJECT NUMBER E100(958)

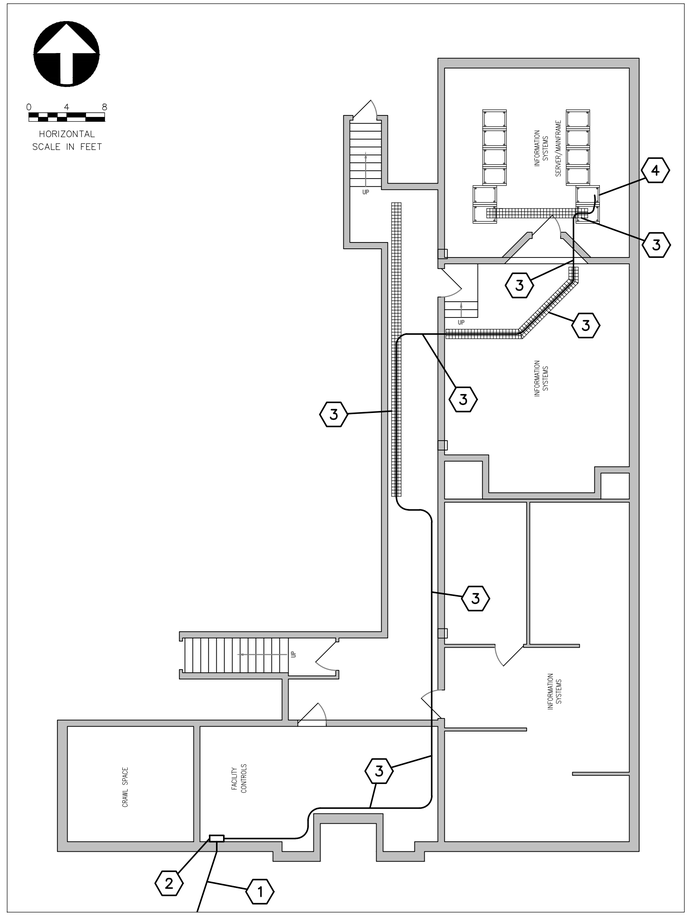
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PID NUMBER: 14522

AERIAL CABLE SLACK STORAGE DETAIL

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

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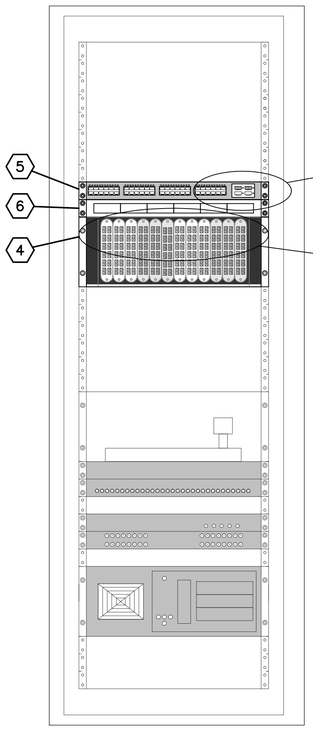
FRANKLIN COUNTY ENGINEER OFFICE
BASEMENT LAYOUT – PROPOSED COMMUNICATION CABLE PATH

NOTES:

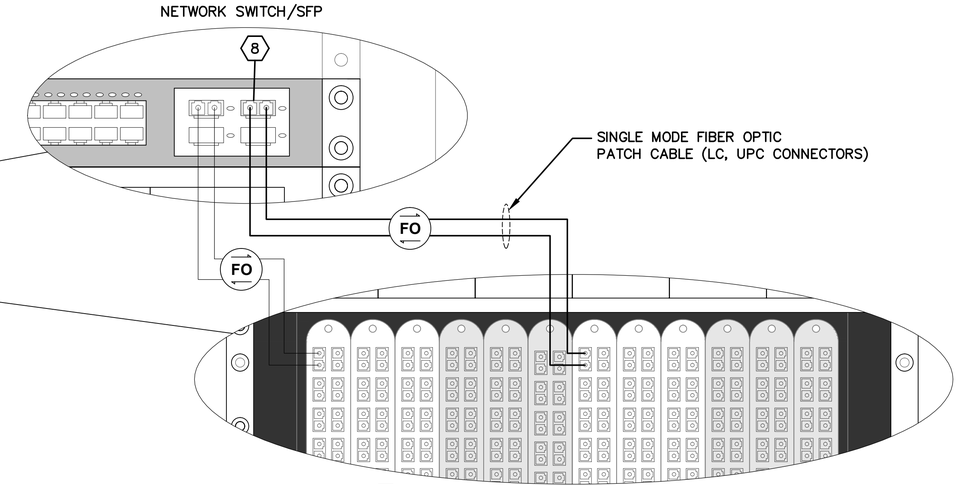
PROPOSED FIBER OPTIC CABLE TO BE INSTALLED WITHIN 1" RISER RATED CORRUGATED INNERDUCT (YELLOW). FIBER OPTIC CABLE SHALL INCLUDE FACTORY MADE PRE–TERMINATED LC CONNECTORS AND SHALL BE CONTINUOUS AND FREE OF SPLICES BETWEEN THE TERMINATION PATCH PANEL AND THE UNDERGROUND SPLICE ENCLOSURE IN EXISTING PULL BOX. PROPOSED 144 STRAND FIBER OPTIC CABLE TO FOLLOW PATH OF EXISTING CABLE INSTALLED DURING CTSS PHASE B PROJECT.

SEE SHEET 235 FOR PLAN SHEET

1. PROPOSED FIBER OPTIC CABLE IN EXISTING 4" CONDUIT (CONNECTS TO SPLICE ENCLOSURE IN EXISTING PULL BOX)
2. EXISTING WALL MOUNTED JUNCTION BOX
3. EXISTING FIBER OPTIC CABLE WITHIN FCEO
4. EXISTING EQUIPMENT RACK
5. EXISTING LAYER 3 NETWORK SWITCH WITH EXISTING AND PROPOSED SFP OPTICAL TRANSCEIVER
6. EXISTING CABLE MANAGEMENT RACK
7. EXISTING 288 TERMINATION PATCH PANEL W/ PROPOSED MODULES (6–24LC/UPC)
8. PROPOSED SFP FIBER OPTIC TRANSCEIVER MODULE



6 EXISTING EQUIPMENT RACK



7 288 TERMINATION FIBER OPTIC PATCH PANEL

TERMINATION PANEL #	AGENCY	DIRECTION (DUBLIN RD)
1–66	CTSS	EAST
67–72	ODOT	EAST
73–144	DoT	EAST
145–210	CTSS	WEST
211–216	ODOT	WEST
217–288	DoT	WEST

FEDERAL PROJECT NUMBER E100(958)

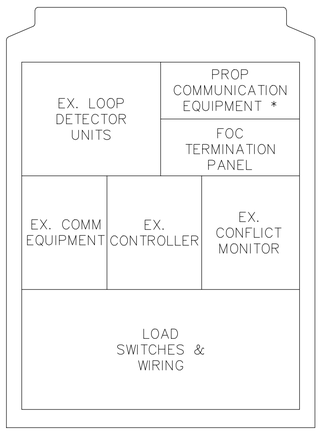
CIP: 540007–100005
PID NUMBER: 14522

FRANKLIN COUNTY ENGINEER OFFICE

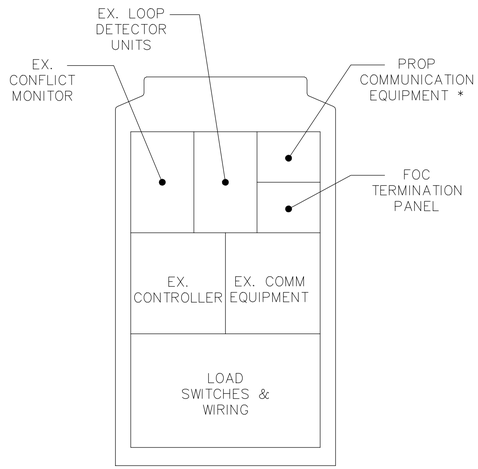
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE C – CONSTRUCTION AS–BUILT

2953-E

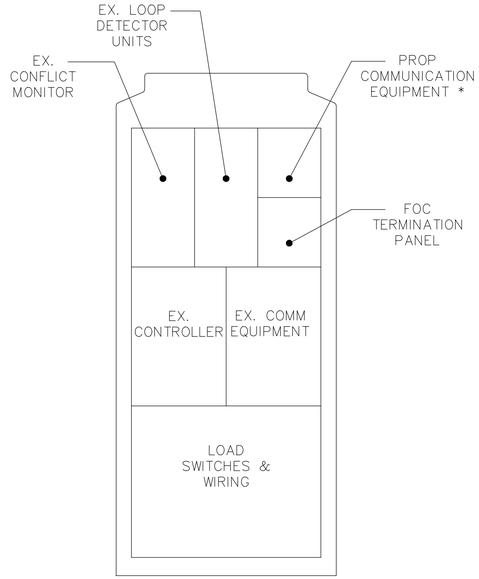
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TYPICAL DETAIL FOR "P" CABINET
44"W x 55" TALL



TYPICAL DETAIL FOR "M" CABINET
30"W x 50" TALL



TYPICAL DETAIL FOR "M STRETCH" CABINET
30"W x 68" TALL

* – EQUIPMENT MOUNTED TO BACK, SIDE OR SHELF IN EXISTING CABINET.

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J:\Jobs\50806\TECHPROD\Sheets\ST_CTSS_002_Detail6.dwg – CABINET DETAILS 1 layout ~ last saved by: mgraf 02/24/2016 04:27pm ~ printed 04/28/2017 04:25pm

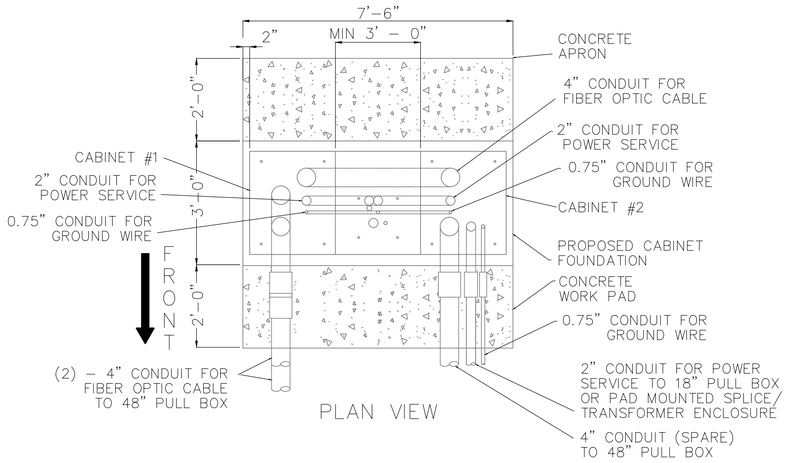
FEDERAL PROJECT NUMBER E100(958)

CIP: 540007-100005
PID NUMBER: 14522

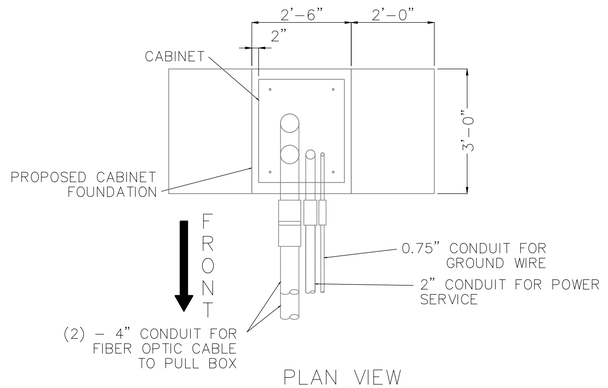
SIGNAL CABINET DETAILS
TYPICAL FOR "P" CABINET, "M" CABINET AND "M STRETCH" CABINET

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

2953-E



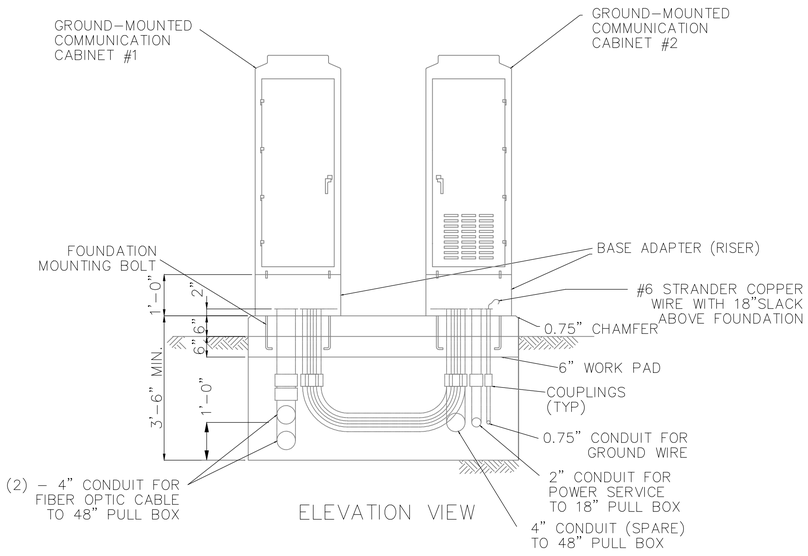
PLAN VIEW



PLAN VIEW

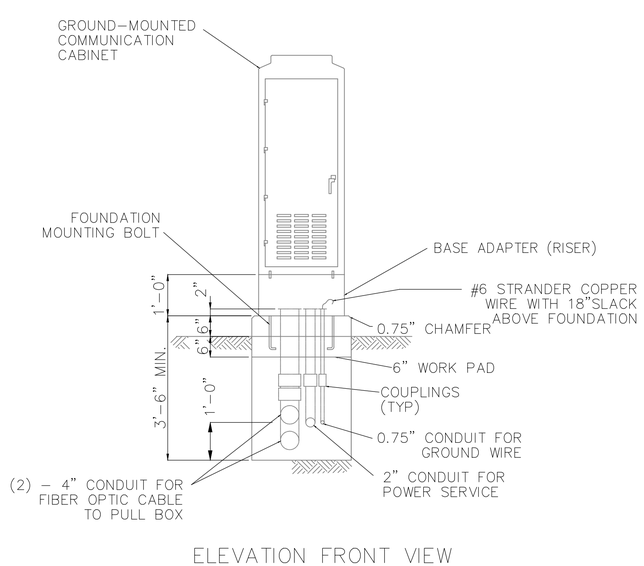
NOTES:

1. FOR 4" CONDUIT SWEEPS USE 36" BEND RADIUS.
2. FOR 0.75" AND 2" CONDUIT SWEEPS USE 24" BEND RADIUS.
3. CONDUIT SHALL TYPICALLY BE PVC SCH. 80 UNLESS OTHERWISE DIRECTED.
4. CABINET DOORS ARE TO BE POSITIONED AS TO NOT INTERFERE WITH CABINET DOORS OF ADJACENT CABINETS.
5. NOT TO SCALE.

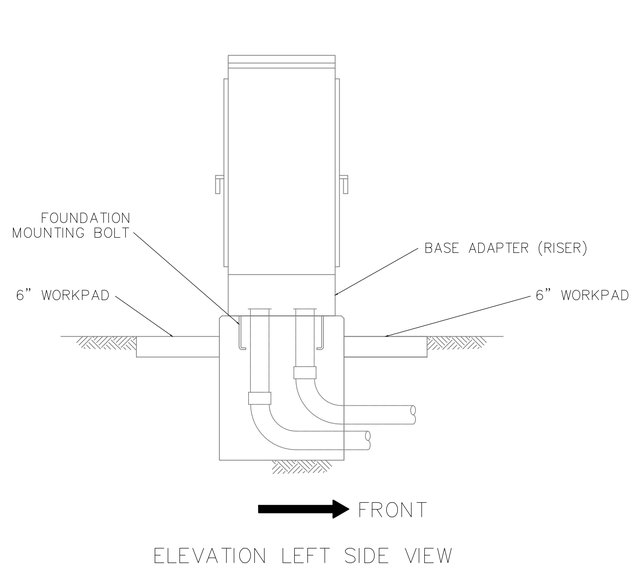


ELEVATION VIEW

DUAL 334 CABINET
COMMUNICATIONS NODE SITE



ELEVATION FRONT VIEW



ELEVATION LEFT SIDE VIEW

334 CABINET
FIBER ACCESS SITE

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2953-E

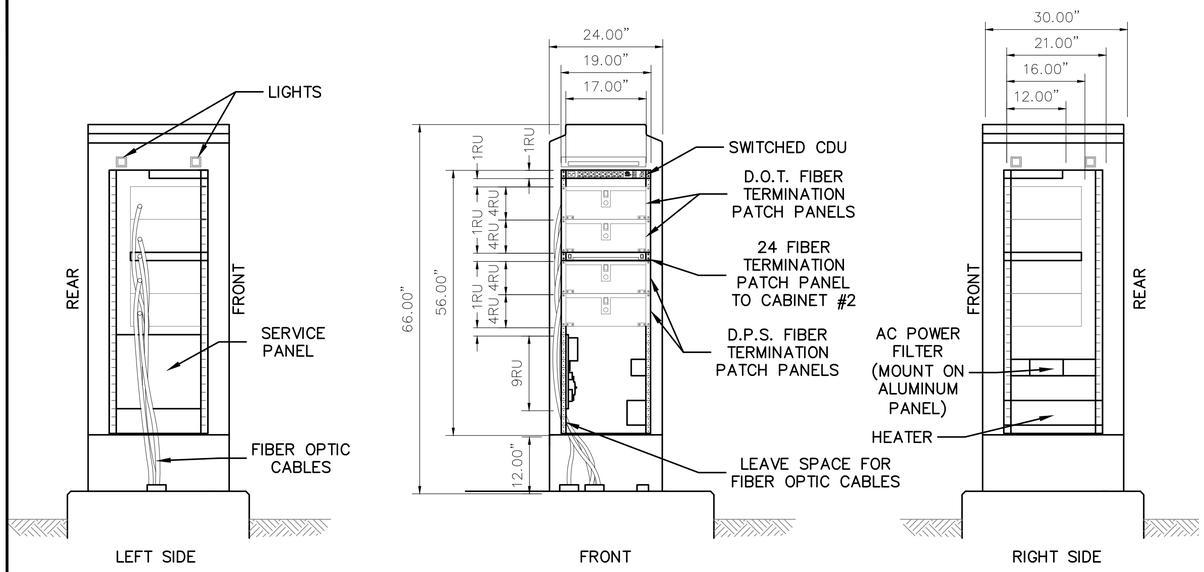
FEDERAL PROJECT NUMBER E100(958)

CIP: 540007-100005
PID NUMBER: 14522

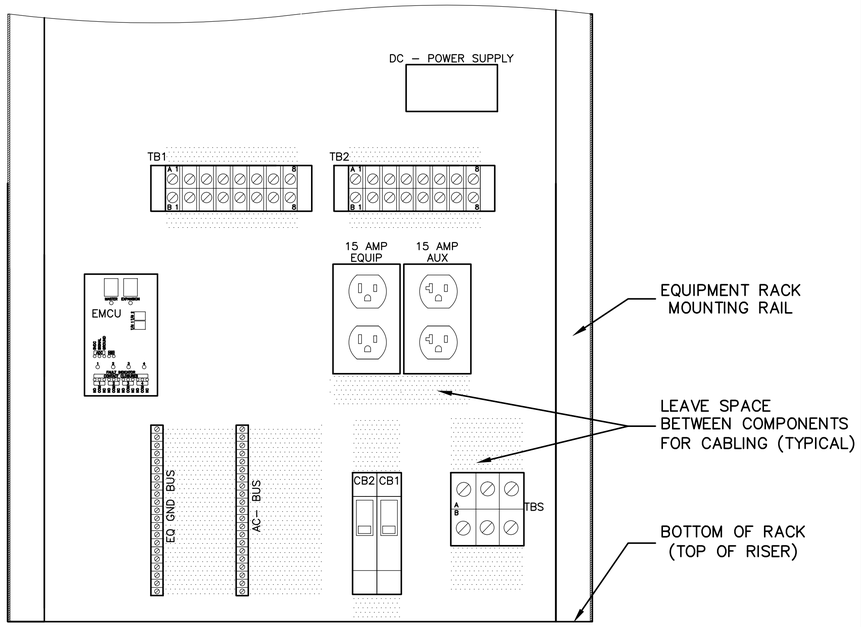
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE C - CONSTRUCTION AS-BUILT

COMMUNICATIONS NODE CABINET DETAILS

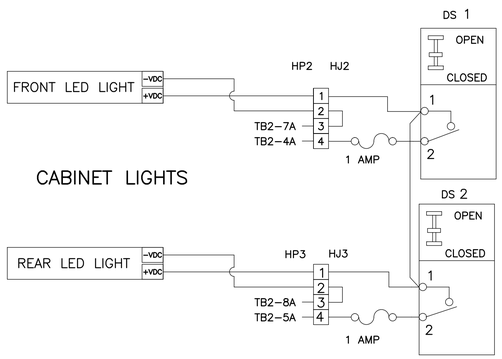
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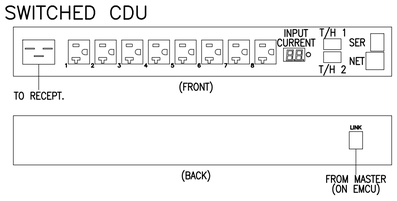


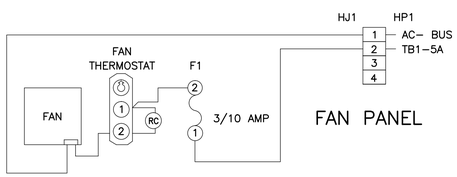
CABINET PROFILE

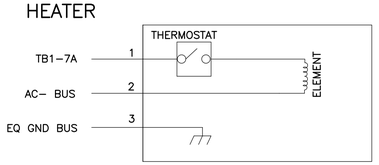


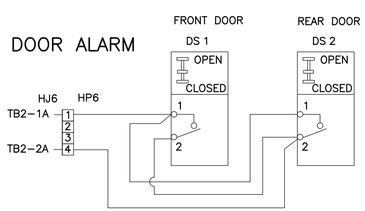
SERVICE PANEL – APPROXIMATE COMPONENT LAYOUT

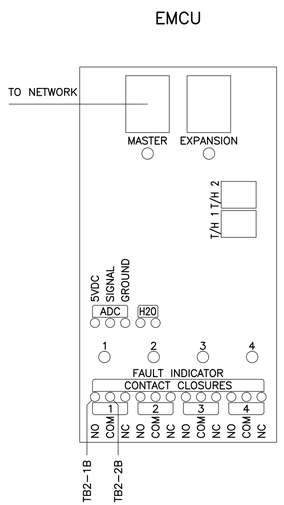


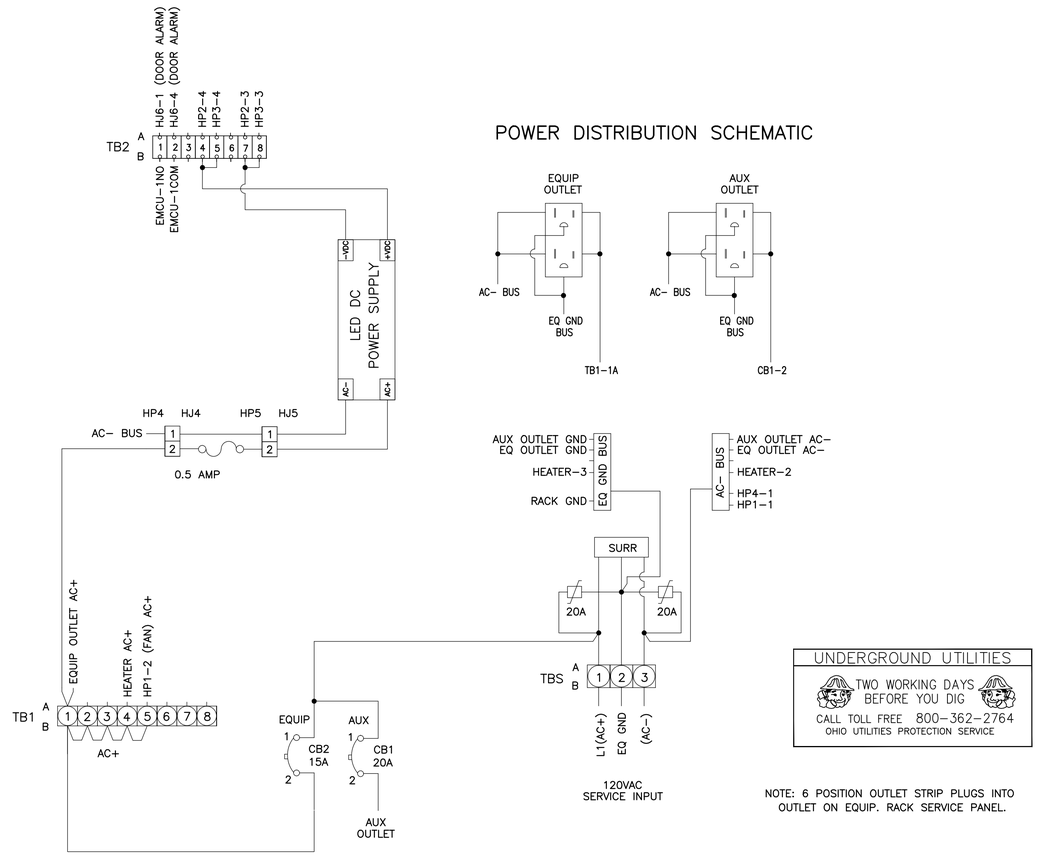












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NOTE: 6 POSITION OUTLET STRIP PLUGS INTO OUTLET ON EQUIP. RACK SERVICE PANEL.

2953-E

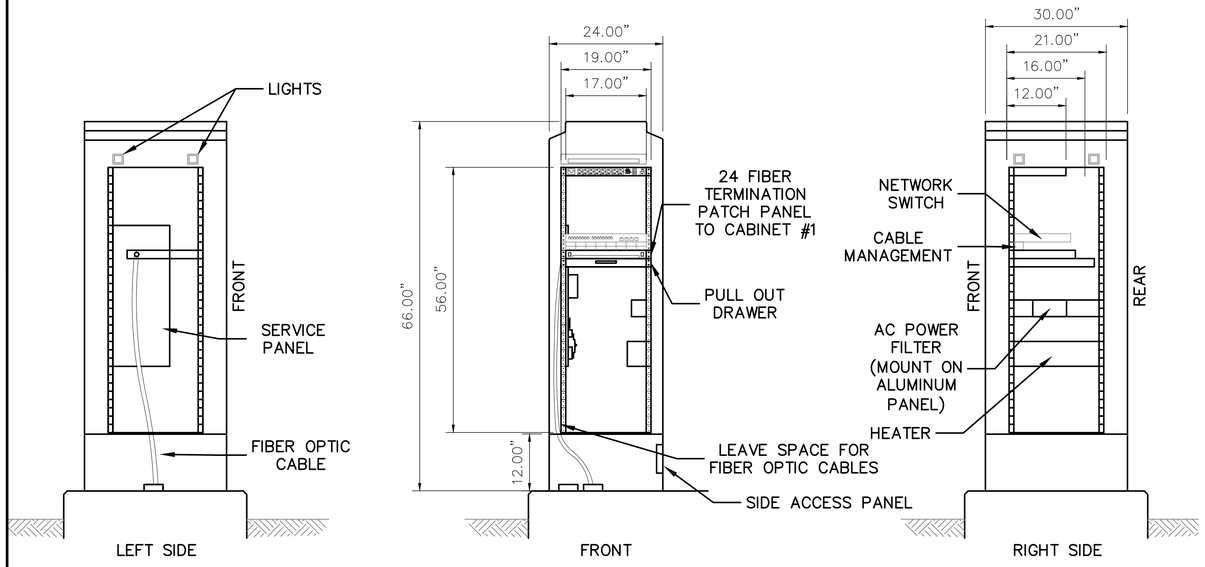
FEDERAL PROJECT NUMBER E100(958)

CIP: 540007–100005
PID NUMBER: 14522

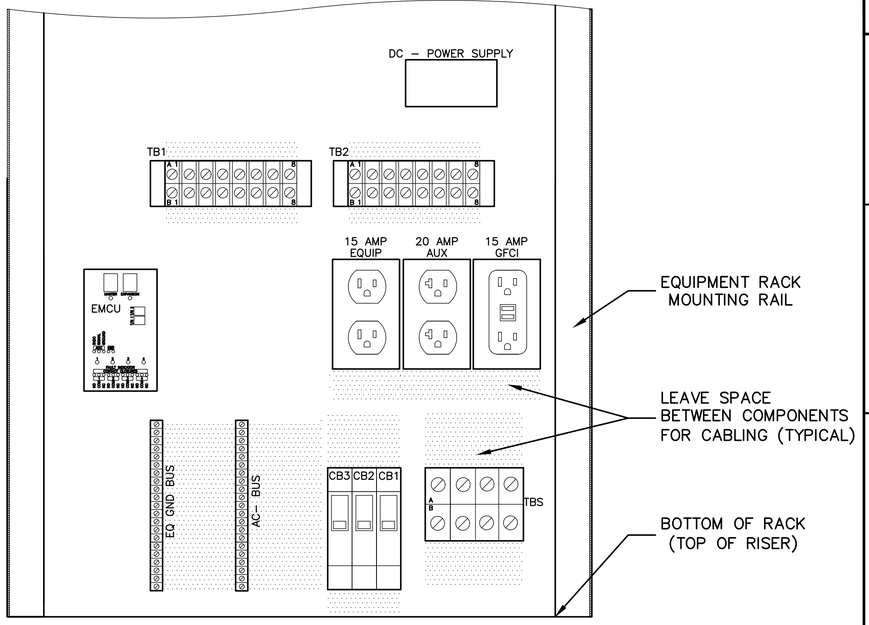
COMMUNICATIONS NODE
CABINET #1 LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

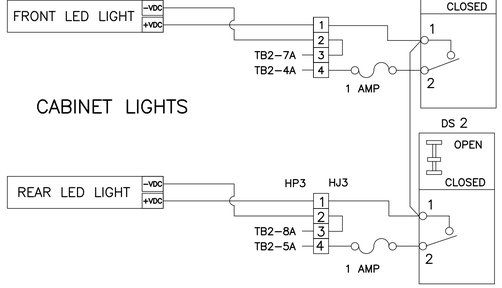
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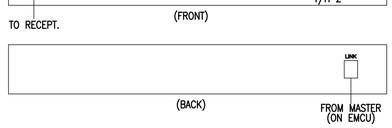


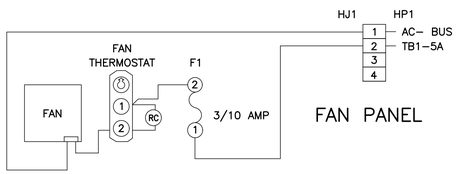
CABINET PROFILE

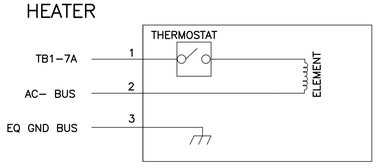


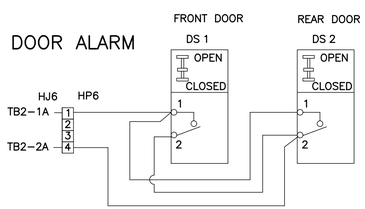
SERVICE PANEL – APPROXIMATE COMPONENT LAYOUT

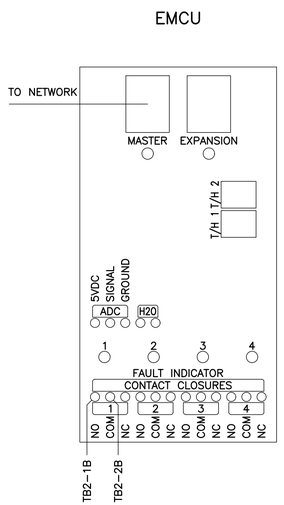


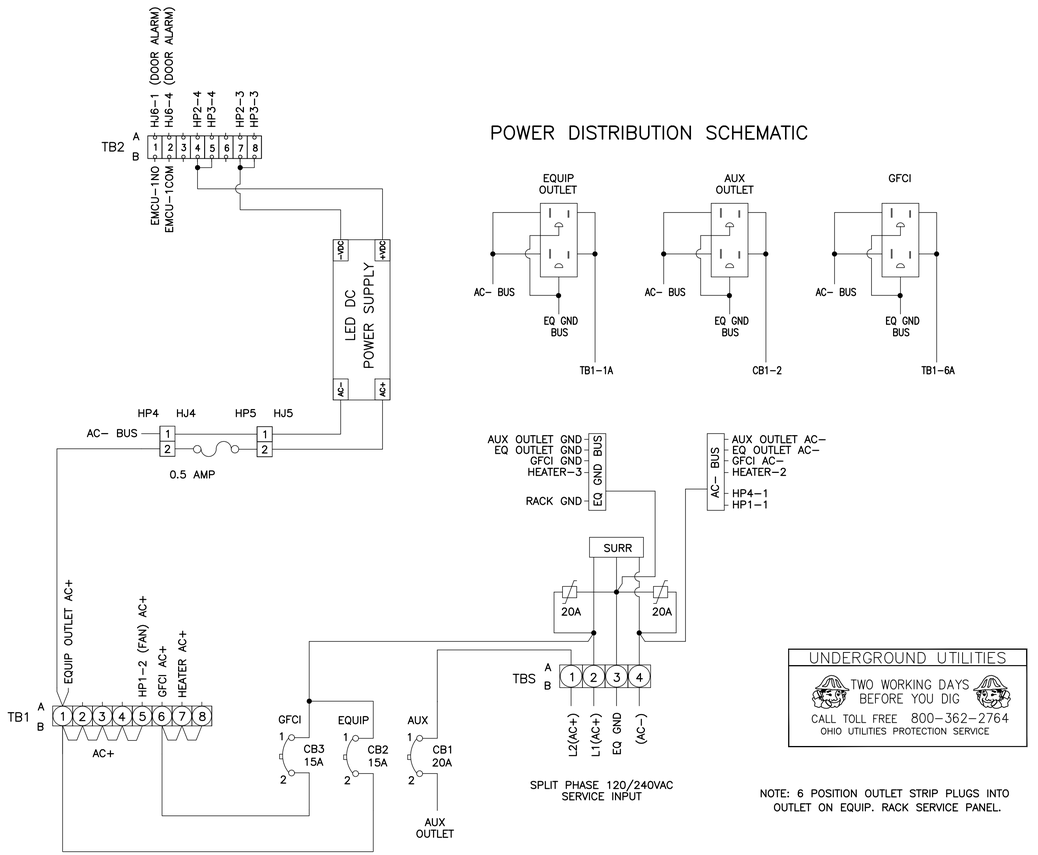












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NOTE: 6 POSITION OUTLET STRIP PLUGS INTO OUTLET ON EQUIP. RACK SERVICE PANEL.

2953-E

FEDERAL PROJECT NUMBER E100(958)

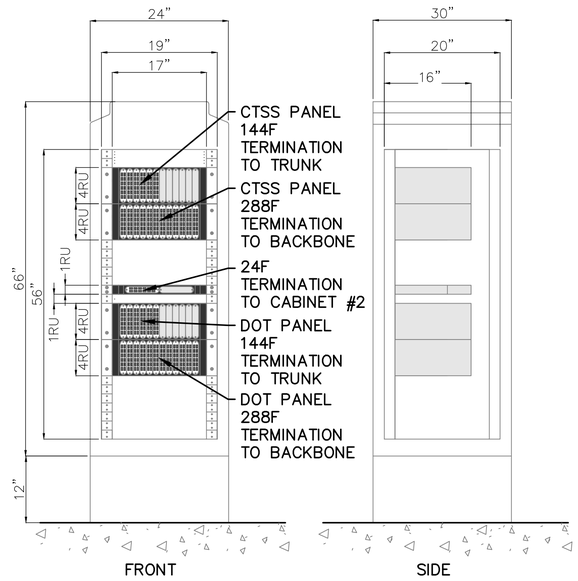
CIP: 540007–100005
PID NUMBER: 14522

COMMUNICATIONS NODE CABINET #2 LAYOUT

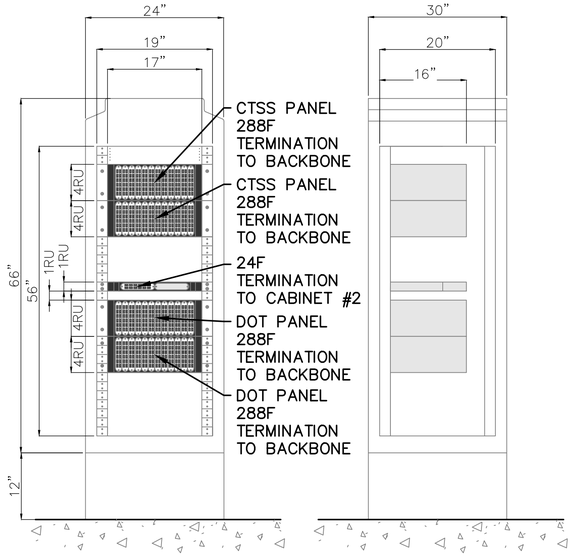
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE C – CONSTRUCTION AS–BUILT

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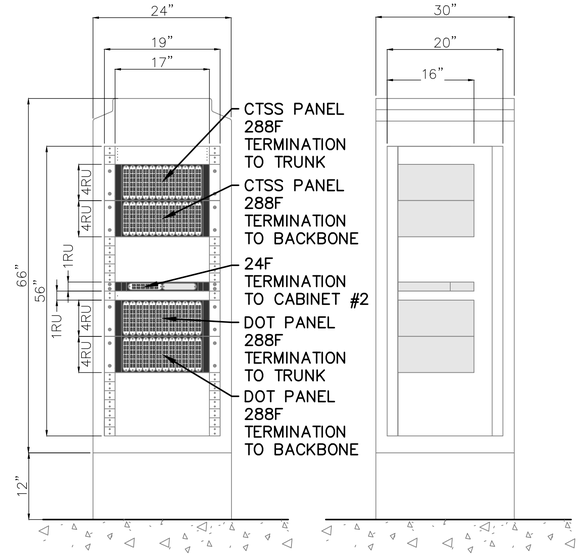
NODE SHEET INDEX					
NODE #	MAJOR HIGHWAY	SECONDARY ROAD	PLAN SHEET #	COMM. SHEET #	DETAIL TYPE
070094.1	I–70	WILSON RD	548	865	D
070097.3	I–70	W BROAD ST	595	867	E
070103.1	I–70	LIVINGSTON AVE	560	870	C
070105.5	I–70	JAMES RD	563	874	D
070107.6	I–70	HAMILTON RD	566	876	D
070109.9	I–70	BRICE RD	585	878	E
270002.1	I–270	HARRISBURG PIKE	531	881	E
270004.5	I–270	GEORGESVILLE RD	544	883	F
270009.3	I–270	TRABUE RD	551	886	D
270028.3	I–270	WESTERVILLE RD	592	888	G
270043.0	I–270	I–70	581	898	B
270045.5	I–270	HAMILTON RD (south)	569	890	H
670001.4	I–670	GRANDVIEW AVE	554	892	D
315000.9	SR–315	W BROAD ST	557	894	E



DETAIL 'A'



DETAIL 'B'



DETAIL 'C'

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NOTES

1. (1) RU = 1.75"
2. PATCH PANELS CAPABLE OF HOUSING TWELVE (12) HIGH DENSITY, DUPLEX LC–UPC MODULES WITH 24F CAPACITY PER INSERT PLATE.
3. DoT – COLUMBUS DEPARTMENT OF TECHNOLOGY
4. DETAILS REPRESENT THE REQUIRED CONFIGURATION OF TERMINATION PANELS. EXACT MOUNTING LOCATION ON EQUIPMENT RACK MAY VARY SLIGHTLY FROM DETAIL IMAGE BASED ON ACTUAL FIELD CONDITIONS.

FEDERAL PROJECT NUMBER E100(958)

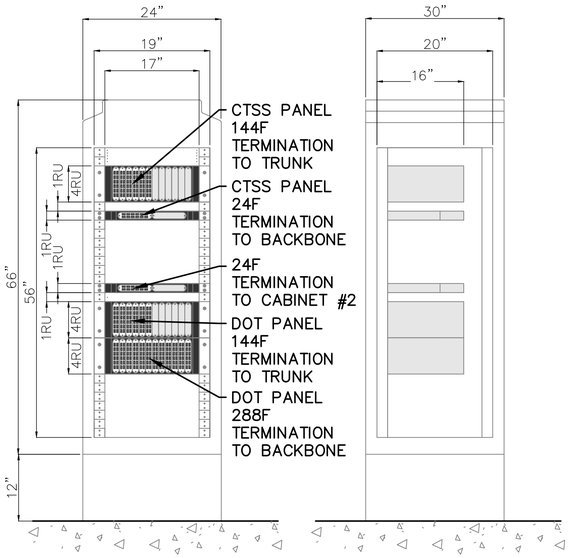
CIP: 540007–100005
PID NUMBER: 14522

COMMUNICATION NODE SHEET
TERMINATION PANEL INDEX

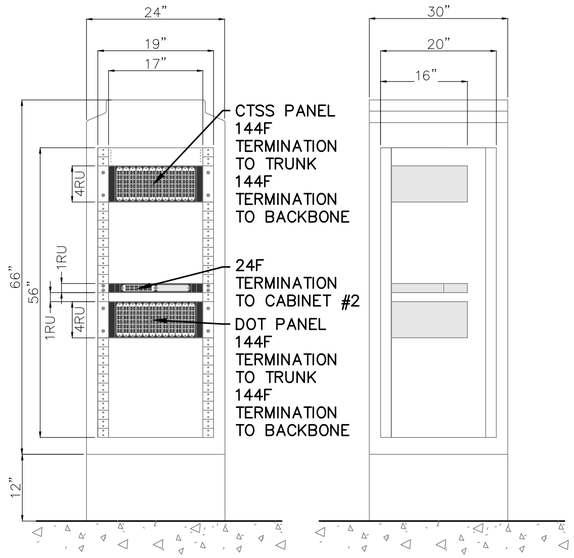
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

2953-E

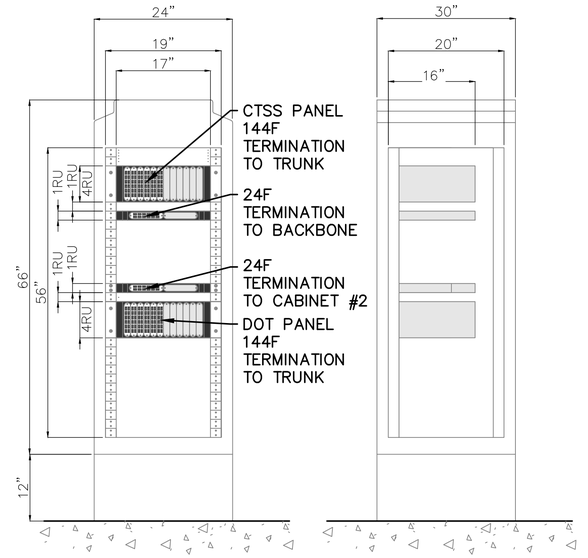
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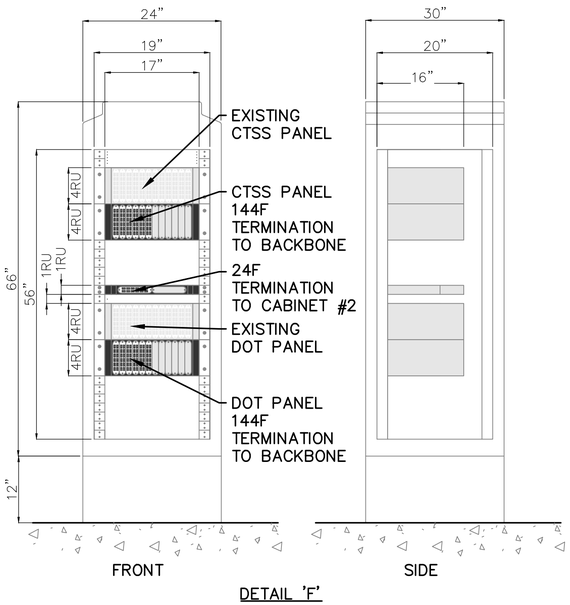
DETAIL 'D'



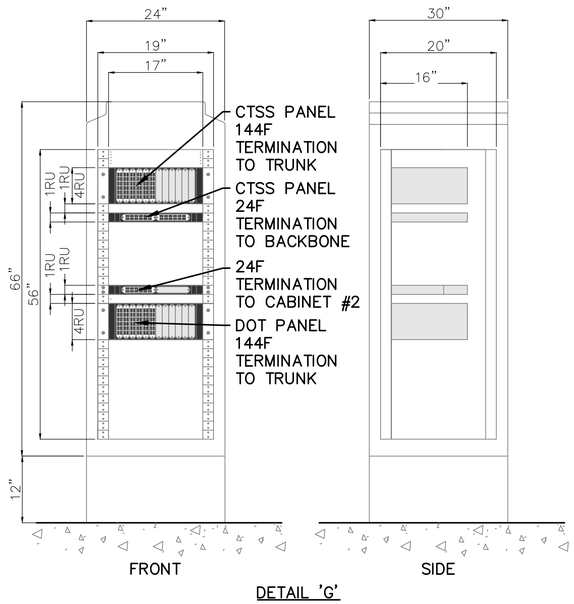
DETAIL 'E'



DETAIL 'H'



DETAIL 'F'



DETAIL 'G'

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2953-E

FEDERAL PROJECT NUMBER
E100(958)

CIP: 540007-100005
PID NUMBER: 14522

COMMUNICATION NODE SHEET
TERMINATION PANEL INDEX

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

53
911

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FIBER SCHEMATICS TABLE

SHEET	STREET NAMES	SEGMENT	SHEET NUMBERS	STATIONING	Cable Distance (ft)
55	Broad / Wilson	BR-1	62-63, 162	W: 0+00 to 10+25 BR: 418+50 to 428+25	3,385
	Broad	BR-2	63-69	428+25 to 478+75	6,035
	Broad	BR-3	67-69	466+00 to 478+00	1,531
	Broad	BR-4	69-79	478+75 to 562+00	11,384
	Broad	BR-5	79-81	562+00 to 578+00	2,263
	Broad	BR-6	81-87	578+00 to 633+00	6,557
	Broad / Marconi	BR-7	87-91, 94-95	B:633+00 to 677+00, M: 133+00 to 137+20	6,149
	Front	FR-1	97-98	1032+25 to 1052+80	2,460
	Hague	HA-1	72, 185-192	1000+00 to 1088+00	10,828
	Belle / Town	BT-1	96-97	B: 13+14 to 25+00 T: 82+00 to 97+18	2,904
	Central	CE-2	217-219, 81	27+50 to 54+50	3,690
	Central / McKinley	CM-1	81, 220-226	C: 54+50 to 76+24 M: 0+00 to 21+50	5,842
	Grandview	GR-1	226-227	0+00 to 19+00	3,623
	Grandview	GR-2	227-228, 234	G: 19+00 to 33+25	1,999
	Dublin	DU-1	230-235	D: 5+60 to 96+75	10,708
56	Central	CE-1	143, 216-217	10+00 to 27+50	2,394
	Central	CE-2	217-219, 81	27+50 to 54+50	3,690
	Demorest	DE-1	105, 156-160	80+00 to 136+00	6,707
	Frank	FK-1	198, 209-213	169+50 to 243+00	8,079
	Harrisburg Pike	HP-1	143, 194-207, 531	63+00 to 251+00	21,985
	I-270	I270-2	528-543	112+00 to 261+00	13,522
	Mound / Binns	MD-1	153, 131-135	M: 15+00 to 62+00 B:34+25 to 42+75	5,322
	Mound	MD-2	135-143	M: 62+00 to 142+00	10,420
	Mound	MD-3	143-148	142+00 to 188+00	5,454
	Souder/ Buchanan/ Harmon/ Greenlawn	BG-1	150-152, 237-242, 254	B: 2+25 to 8+50 H: 51+00 to 86+00 G: 9+50 to 58+50	12,584
	Sullivant	SU-1	100-109	142+08 to 236+75	11,691
	Sullivant	SU-2	109-119, 217	236+75 to 356+50	14,362
	Sullivant	SU-3	120-121, 217	356+50 to 379+50	2,569
	Town / Sandusky	TS-1	123-129, 219	T: 0+00 to 54+00 S: 0+00 to 4+42	7,578
	Whitethorne	WE-1	116, 137, 154	32+00 to 52+00	2,331
57	Hague	HA-1	69, 184-191	1000+00 to 1088+00	10,828
	Trabue	TR-1	173-174	71+25 to 85+00	2,314
	Trabue	TR-2	174-180	85+00 to 183+00	10,380
	Wilson / Valleyview	WN-1	163-167, 181-182, 185	WN: 29+00 to 79+00 V: 0+00 to 46+50	10,872
	Wilson	WN-2	167-171	79+00 to 132+50	5,965
58	Frebis	FB-1	402, 407-408	54+25 to 80+50	3,020
	Front	FR-2	254-259	941+25 to 1004+60	9,509
	High	HI-1	244-246	112+00 to 150+00 150+00 to 155+80	6,016
	High	HI-2	246-251	155+80 to 203+25	6,104
	Hosack	HO-1	246-247, 410-411, 375	High: 150+00 to 155+50 Hosack: 0+00 to 30+00 Parsons: 327+50 to 333+50	4,827
	Livingston	LI-1	259, 302, 304-308	995+00 to 1046+50	6,646
	Souder/ Buchanan / Harmon/ Greenlawn	BG-1	149-153, 238-242, 254	B: 2+25 to 8+50 H: 51+00 to 86+00 G: 9+50 to 58+50	12,584
	Parsons	PA-2	371-382	291+00 to 407+25	16,118
	Parsons	PA-3	308, 382-383	407+25 to 436+50	3,361
	Refugee	RE-2	398, 413-414	0+00 to 26+50	3,087
	Sycamore	SY-1	256, 261	0+00 to 5+00	476
	Greenlawn / Thurman	TH-1	252, 254	G:58+50 to 61+75	465
	Whittier	WH-1	255, 383, 387-390	3+25 to 48+75	5,721
	Whittier / Lockbourne	WL-1	383, 391-405	W: 48+75 to 103+00 L: 197+75 to 299+25	16,722

SHEET	STREET NAMES	SEGMENT	SHEET NUMBERS	STATIONING	Cable Distance (ft)
300	Alum Creek	AC-1	324, 438-443	261+90 to 305+00	5,297
	College	CO-1	325-326	200+75 to 208+25	942
	Eighteenth St	EI-1	311, 313	10+00 to 22+75	1,256
	High	HI-3	303-304	0+00 to 6+25	641
	Hamilton	HM-1	345-348, 562	89+25 to 116+25	3,514
	James	JA-1	334, 445-450, 563	109+75 to 167+15	6,967
	James	JA-2	334, 451	167+15 to 183+00	1,599
	Livingston / Brice	LB-1	357-361, 475-479, 585	L: 1426+50 to 1476+50 B: 378+75 to 413+50	9,482
	Livingston	LI-1	259, 303, 305-309	995+00 to 1046+50	6,646
	Livingston	LI-2	309-314	1046+50 to 1066+75	3,424
	Livingston	LI-3	314-322	1066+75 to 1141+75	9,934
	Livingston	LI-4	322-324	1141+75 to 1152+25	1,979
	Livingston	LI-5	324-334	1152+25 to 1234+60	10,327
	Livingston	LI-6	334-345, 349	1234+60 to 1341+50	14,163
	Livingston	LI-7	349-357	1341+50 to 1426+50	11,351
	Parsons	PA-3	309, 383-384	407+25 to 436+50	3,361
	Parsons	PA-4	309, 385	436+50 to 442+00	671
	Refugee	RE-3	432-433	86+75 to 96+00	982
301	I-270	I270-1	569-581	2265+00 to 2364+50	11,409
	I-270	I270-2	531-546	112+00 to 261+00	13,522
	I-70	I70-1	581-585	1202+25 to 1265+00	7,470
	Morse	MO-1	516-519	367+00 to 430+25	7,854
	SR-161 / Sunbury	SS-1	521-523	SR:834+50 to 865+20 SU:31+25 to 32+60	4,046
	SR-161 / Sunbury	SS-2	523-524	SU: 32+60 to 44+25	1,285
	Taylor	TA-1	526-529	7+00 to 75+50	8,021
	Westerville / Dempsey	WD-1	510-514, 592	D: 30+00 to 85+00 W: 3+75 to 24+00	9,143
	Chatterton	CH-1	497, 501-508, 464	1000+50 to 1112+50	13,358
	Gender / Brice	GB-1	462-471, 474, 585	277+50 to 377+75	12,862
	Hosack	HO-1	246-247, 409-410, 374	High: 150+00 to 155+50 Hosack: 0+00 to 30+00 Parsons: 327+50 to 333+50	4,827
	I-270	I270-1	569-581	2265+00 to 2364+50	11,409
	I-70	I70-1	581-585	1202+25 to 1265+00	7,470
302	Livingston / Brice	LB-1	357-361, 475-479, 585	L: 1426+50 to 1476+50 B: 378+75 to 413+50	9,482
	Noe-Bixby	NB-1	481-483, 485, 497	27+75 to 86+00	7,141
	Noe-Bixby	NB-2	497, 486-487	86+00 to 111+75	3,031
	Parsons	PA-1	363- 372, 416, 425	108+50 to 291+00	20,964
	Parsons	PA-2	372-383	291+00 to 407+25	16,118
	Rathmell	RA-1	422-429	0+75 to 95+25	11,445
	Refugee	RE-1	493, 495-497, 569	951+00 to 1000+50	6,470
	Tussing	TU-1	469-470	1+00 to 10+00	1,069
	Williams	WI-1	416-420	26+50 to 107+50	9,807

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

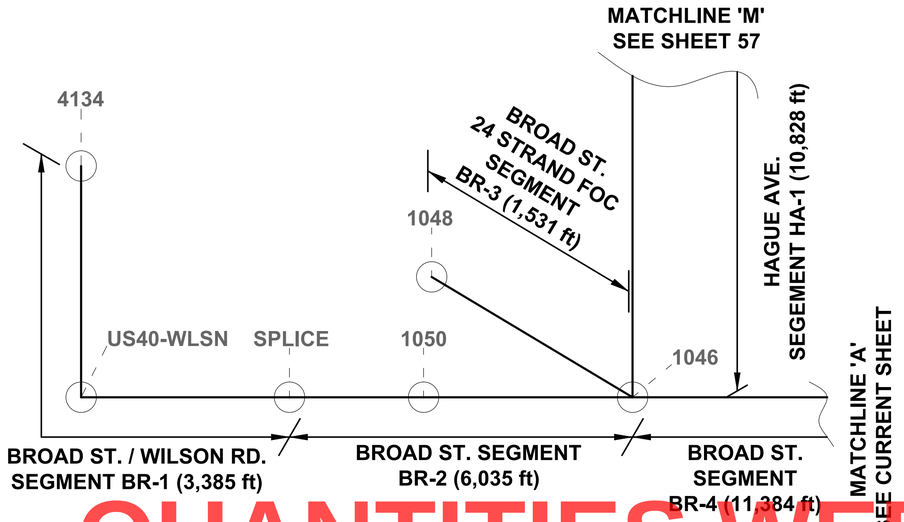
DISCLAIMER: THIS INFORMATION IS TO AID THE CONTRACTOR ON APPROXIMATE FIBER SEGMENT LENGTHS. CONTRACTOR IS STILL RESPONSIBLE FOR VERIFYING LENGTHS BASED ON THE PLAN SHEETS.

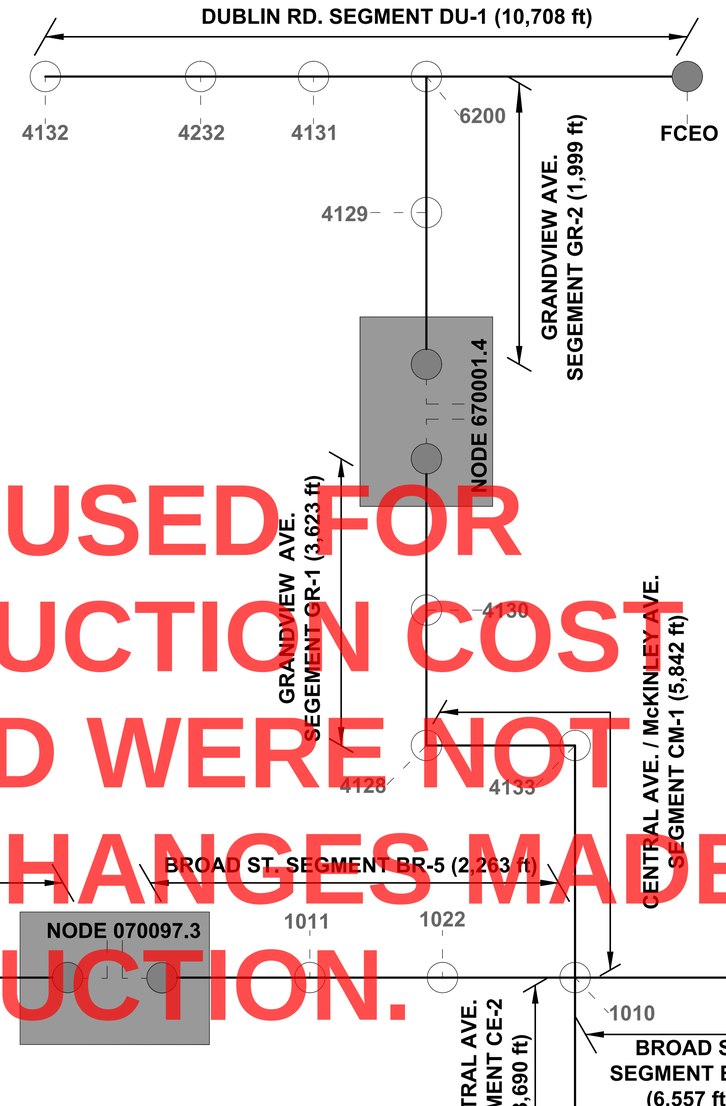
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PID NUMBER: 14522

FIBER SCHEMATICS TABLE
VOL 1 – 1 of 1

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

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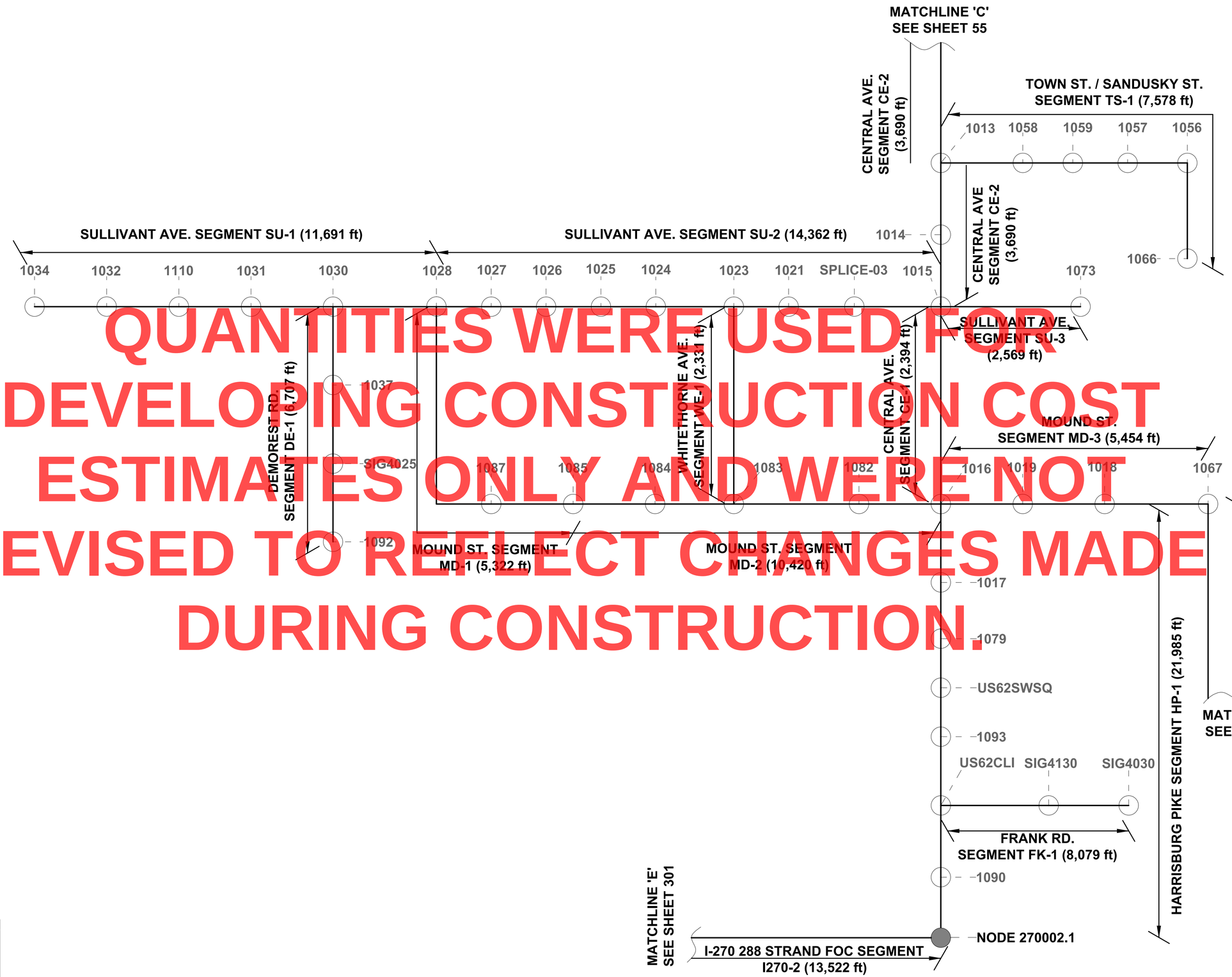
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PID NUMBER: 14522

FIBER OPTIC CABLE SCHEMATICS
VOLUME 1 - 1 OF 4

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

2953-E

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.



2953-E

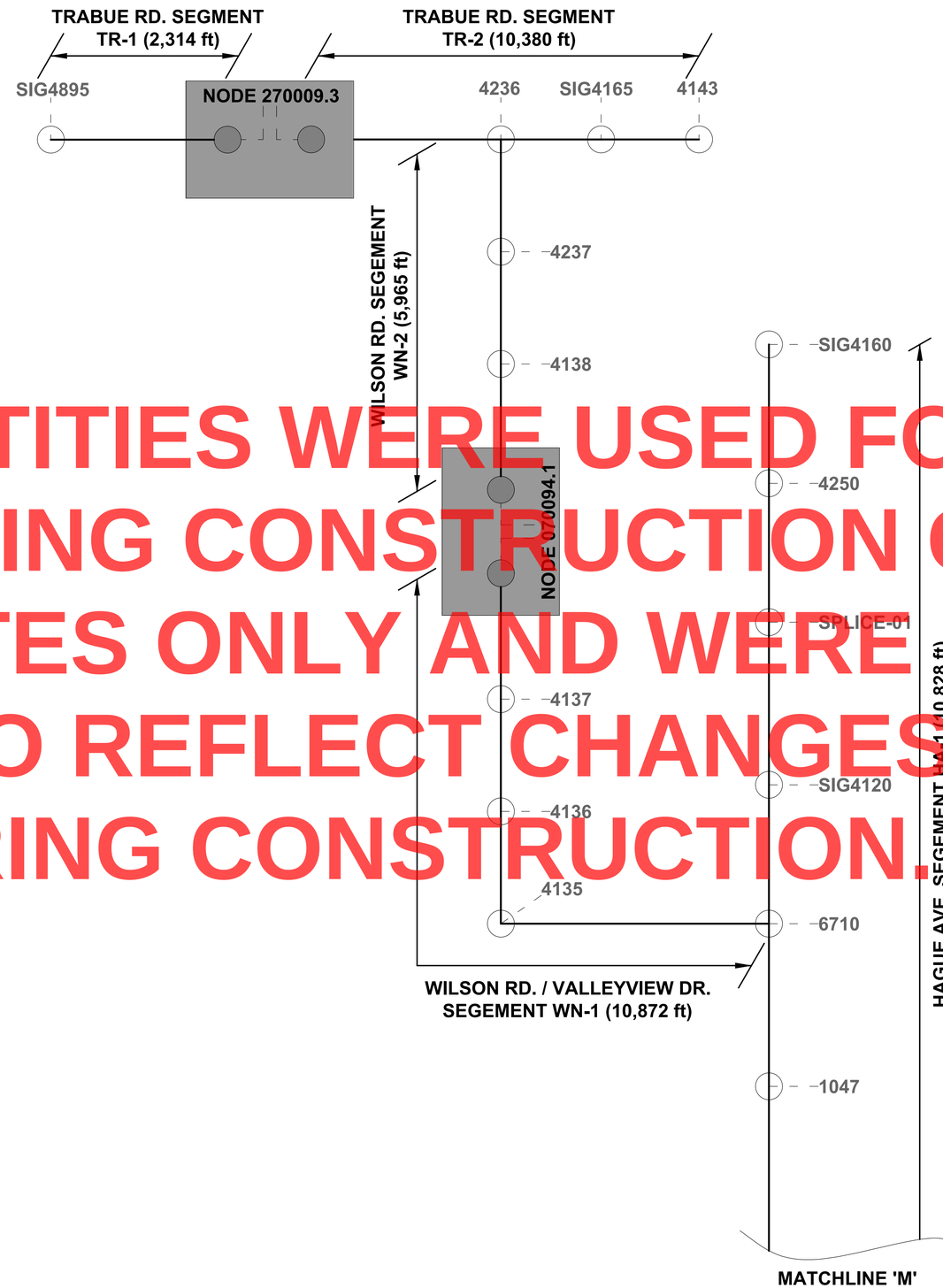
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CIP: 540007–100005
PID NUMBER: 14522

FIBER OPTIC CABLE SCHEMATICS
VOLUME 1 – 2 OF 4

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT



QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

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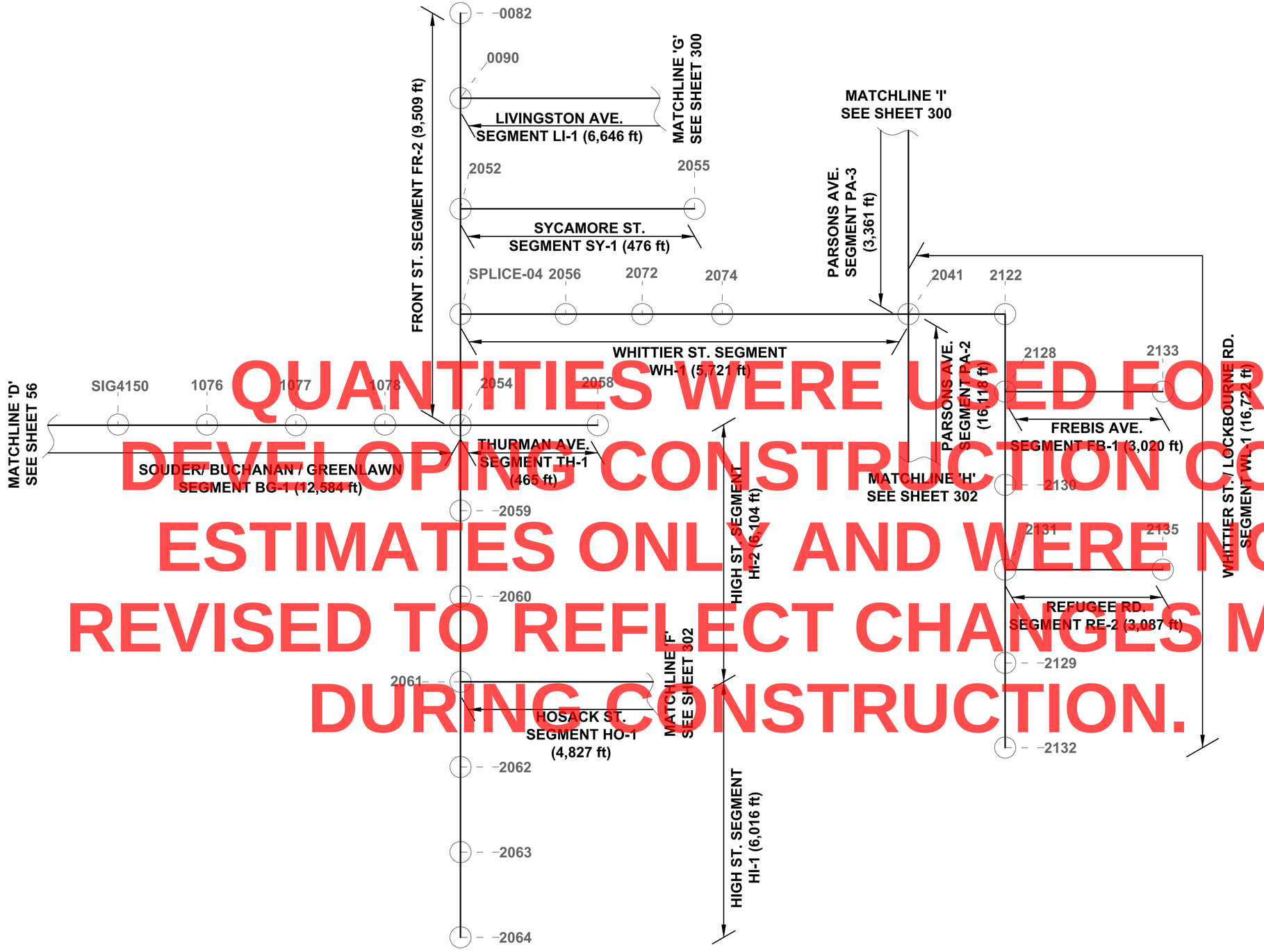
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CIP: 540007-100005
PID NUMBER: 14522

FIBER OPTIC CABLE SCHEMATICS
VOLUME 1 - 3 OF 4

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

2953-E



QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

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FIBER OPTIC CABLE SCHEMATICS
VOLUME 1 - 4 OF 4

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

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PID NUMBER: 14522

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

2953-E

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CIP: 540007-100005
PID NUMBER: 14522

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

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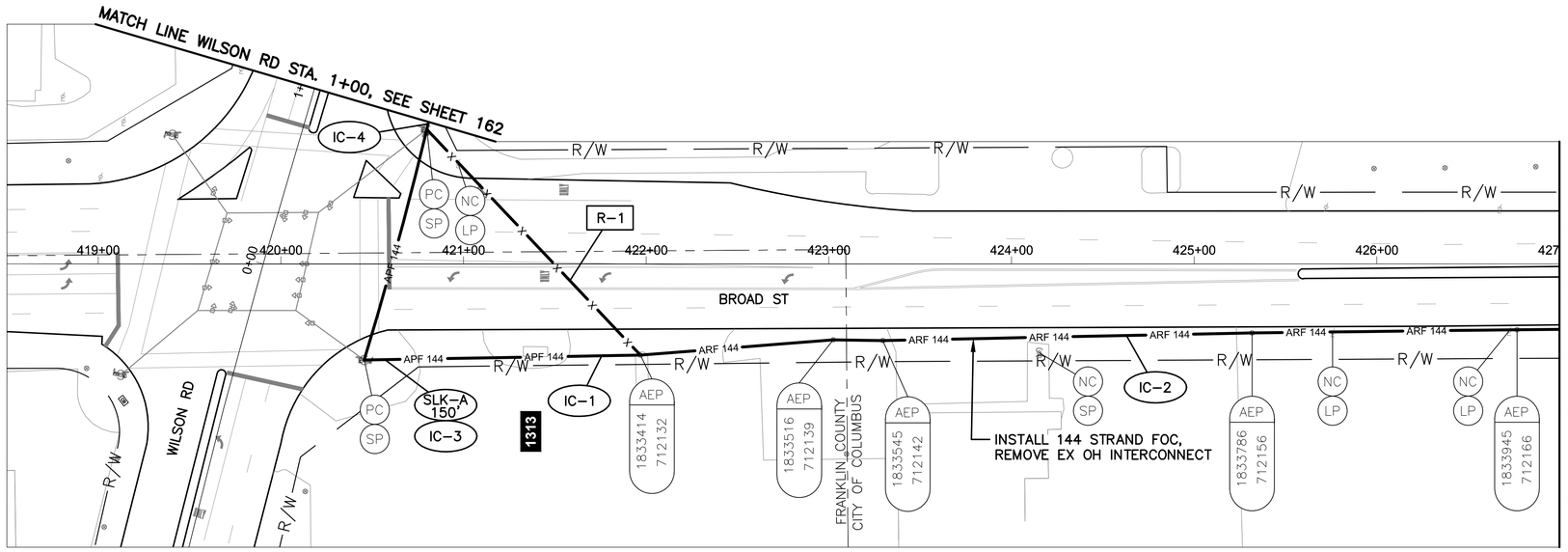
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PID NUMBER: 14522

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

2953-E

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BROAD ST BETWEEN STATION 418+50 AND 427+00

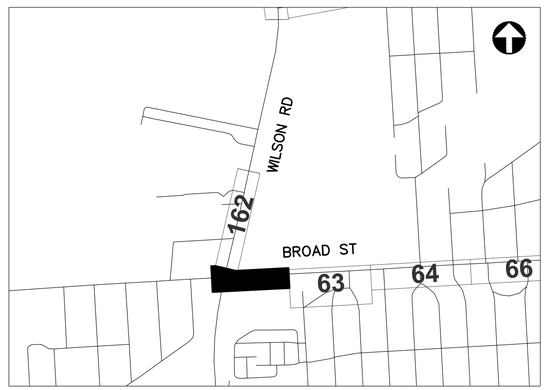
NOTES:

1. SEE SHEET 65 FOR QUANTITIES.
2. SEE SHEETS 600 FOR COMMUNICATION DETAILS.
3. COORDINATE WITH ODOT WEST BROAD PROJECT.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

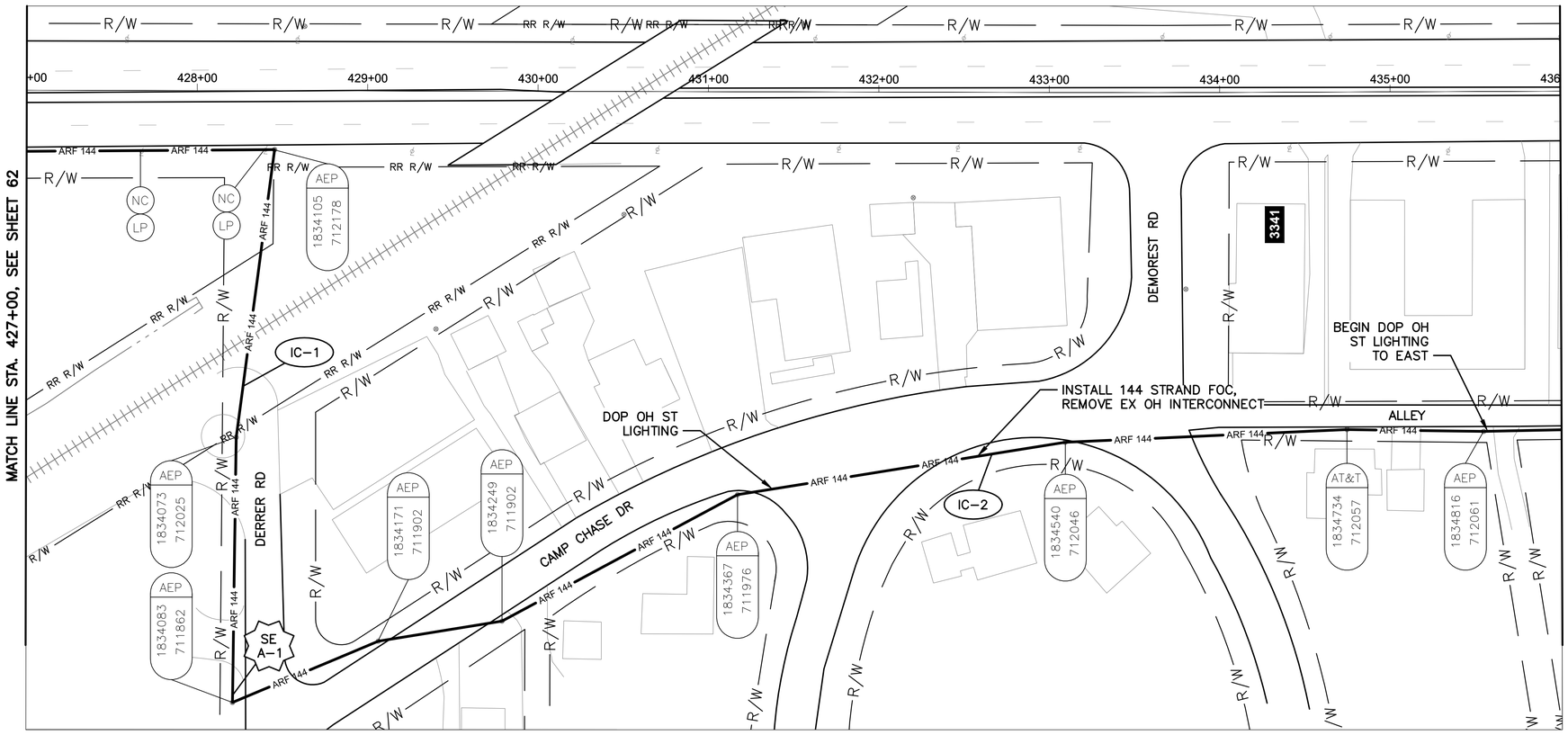
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PID NUMBER: 14522

INTERCONNECT PLAN
BROAD ST BETWEEN STA. 418+50 AND 427+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

62
911

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BROAD ST BETWEEN STATION 427+00 AND 436+00

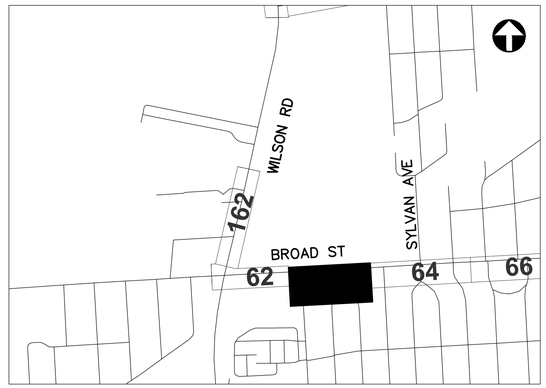
NOTES:

1. SEE SHEET 65 FOR QUANTITIES.
2. SEE SHEET 600 FOR COMMUNICATION DETAILS.
3. SPLICE ALL FIBERS, LIKE COLOR FIBER/BUFFER TUBES.
4. CONTRACTOR MAY USE ONE CONTINUOUS FIBER OPTIC CABLE FROM SEGMENTS BR-1 + BR-2. NO ADDITIONAL COMPENSATION.

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CITY OF COLUMBUS UTILITY LEGEND

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- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 20 40

CIP: 540007-100005
PID NUMBER: 14522

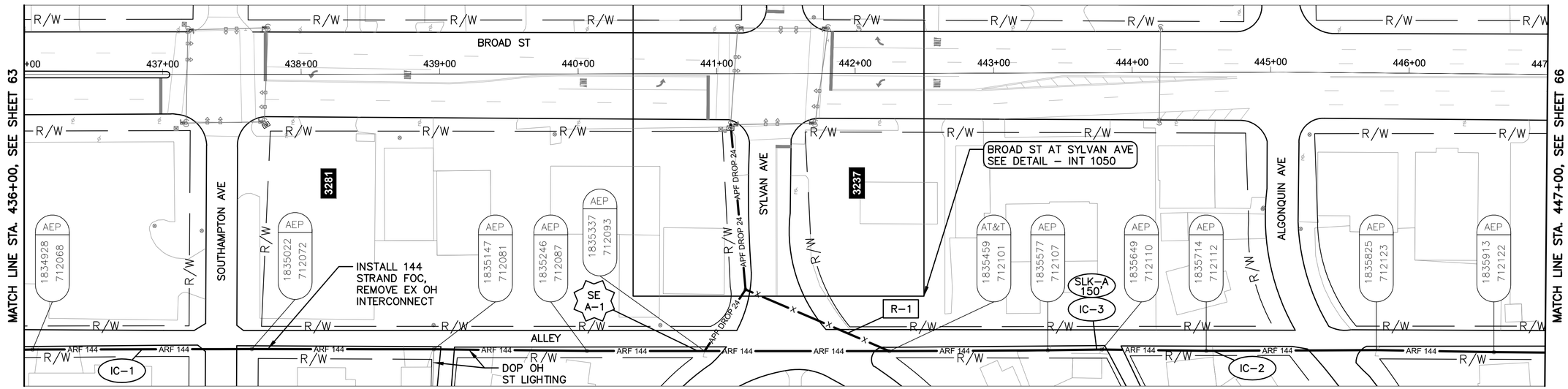
INTERCONNECT PLAN
BROAD ST BETWEEN STA. 427+00 AND 436+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

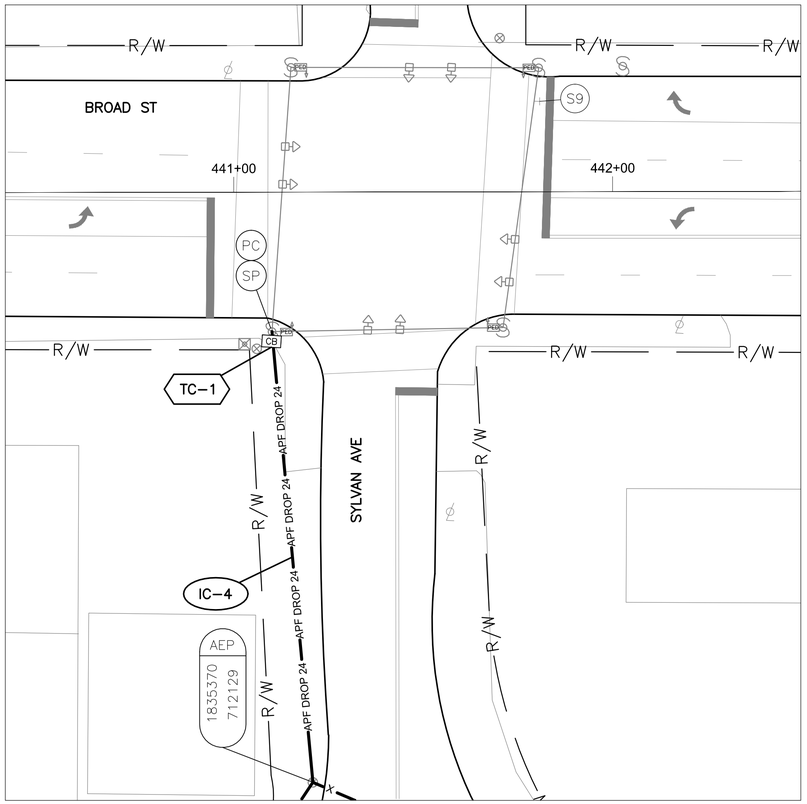
63
911

2953-E

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BROAD ST BETWEEN STATION 436+00 AND 447+00



DETAIL - INT 1050

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 65 FOR QUANTITIES.
2. SEE SHEETS 600 & 647 FOR COMMUNICATION DETAILS.

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- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
BROAD ST BETWEEN STA. 436+00 AND 447+00, INT 1050

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

64
911

2953-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND FT	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT FT	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER EACH	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 450FT DROP CABLE EACH	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES FT	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE EACH	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH EACH	633 CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER EACH
BROAD ST. BETWEEN STA. 418+50 AND 427+00												
62	IC-3	BROAD ST	420+57, 52' RT		150							
62	IC-1	BROAD ST	420+79, 73' LT	421+96, 50' RT	282				282			
62	R-1	BROAD ST	420+79, 73' LT	421+96, 50' RT		170						
62	IC-4	BROAD ST	420+79, 73' LT	420+80, 78' LT	4	4			4			
62	IC-2	BROAD ST	421+96, 50' RT	427+00, 36' RT	512	504			512			
BROAD ST. BETWEEN STA. 427+00 AND 436+00												
63	IC-1	BROAD ST	427+00, 36' RT	428+21, 355' RT	822	810			822			
63	SE A-1	BROAD ST	428+21, 355' RT		150		1					
63	IC-2	BROAD ST	428+21, 355' RT	436+00, 199' RT	478	471			478			
BROAD ST. BETWEEN STA. 436+00 AND 447+00, INT 1050												
64	IC-1	BROAD ST	436+00, 199' RT	440+91, 200' RT	498	491			498			
64	SE A-1	BROAD ST	440+91, 200' RT		150		1					
64	IC-4	BROAD ST	440+91, 200' RT	441+10, 37' RT				1	176			
64	IC-2	BROAD ST	440+91, 200' RT	447+00, 201' RT	618	609			618			
64	TC-1	BROAD ST	441+10, 37' RT							2	1	1
64	R-1	BROAD ST	441+20, 156' RT	442+24, 200' RT		113						
64	IC-3	BROAD ST	443+73, 200' RT		150							
SHEET TOTAL					3814	3172	2	1	3390	2	1	1

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

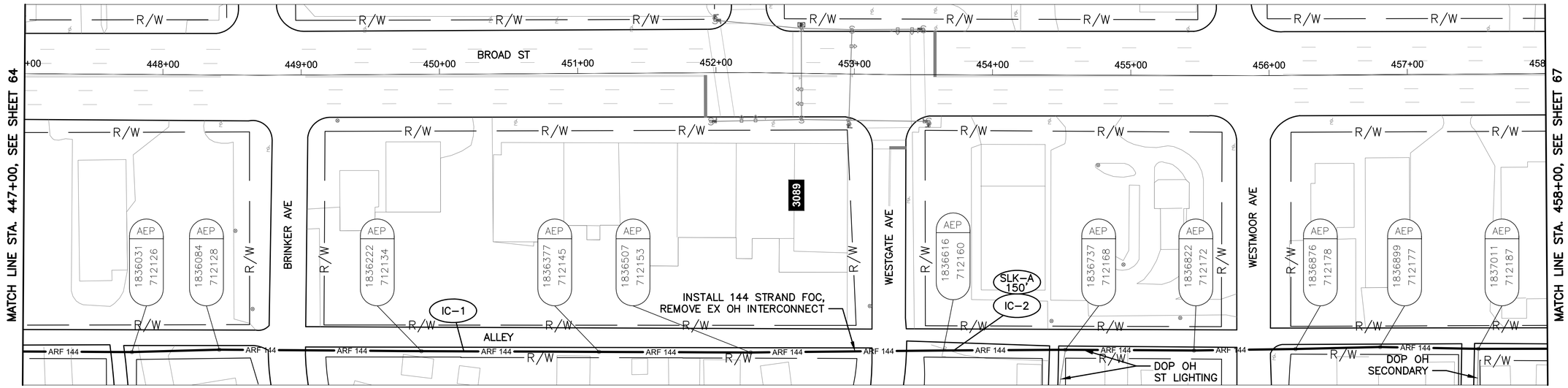
CIP: 540007-100005
PID NUMBER: 14522

BROAD ST BTW STA. 418+50 AND 447+00
INT 1050

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

65
911

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BROAD ST BETWEEN STATION 447+00 AND 458+00

NOTES:

1. SEE SHEET 71 FOR QUANTITIES.
2. SEE SHEET 600 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

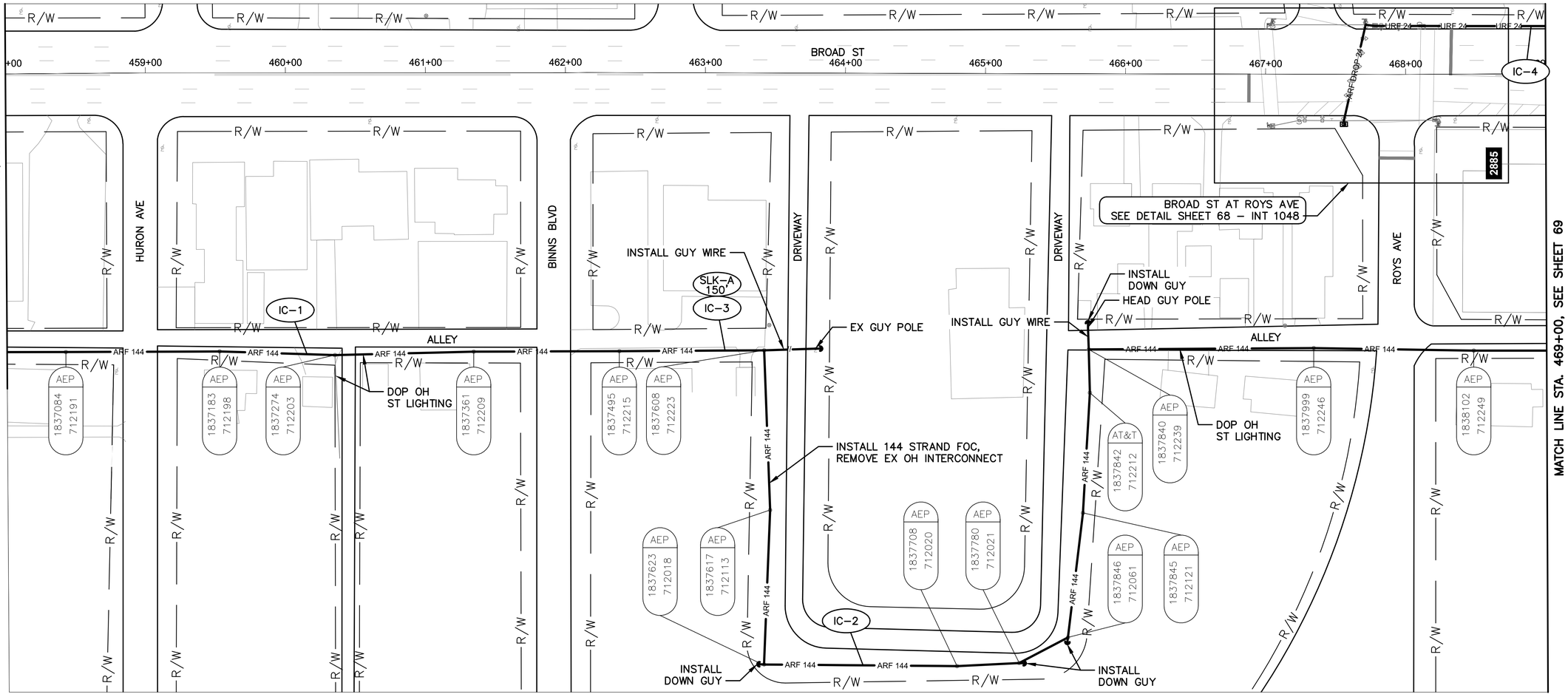
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
BROAD ST BETWEEN STA. 447+00 AND 458+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

66
911

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BROAD ST BETWEEN STATION 458+00 AND 469+00

NOTES:

1. SEE SHEET 71 FOR QUANTITIES.
2. SEE SHEETS 600 & 648 FOR COMMUNICATION DETAILS.



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

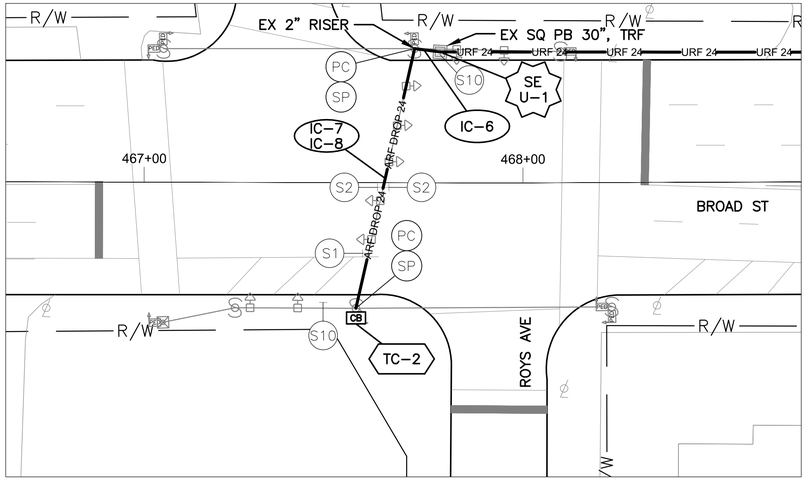
INTERCONNECT PLAN
BROAD ST BETWEEN STA. 458+00 AND 469+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

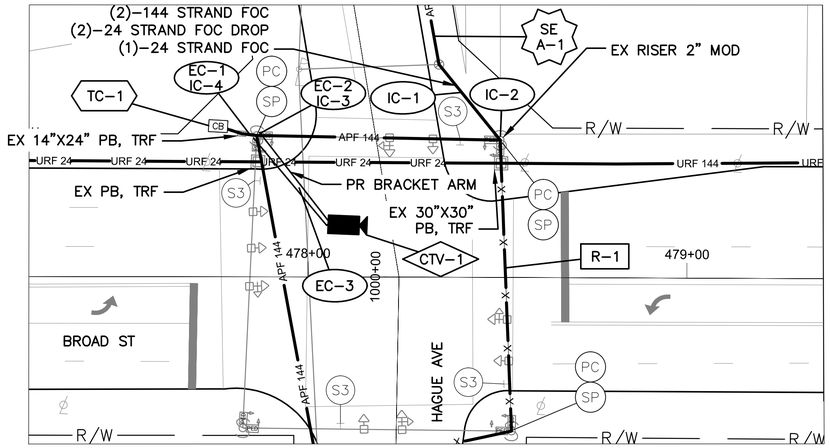
67
911

2953-E

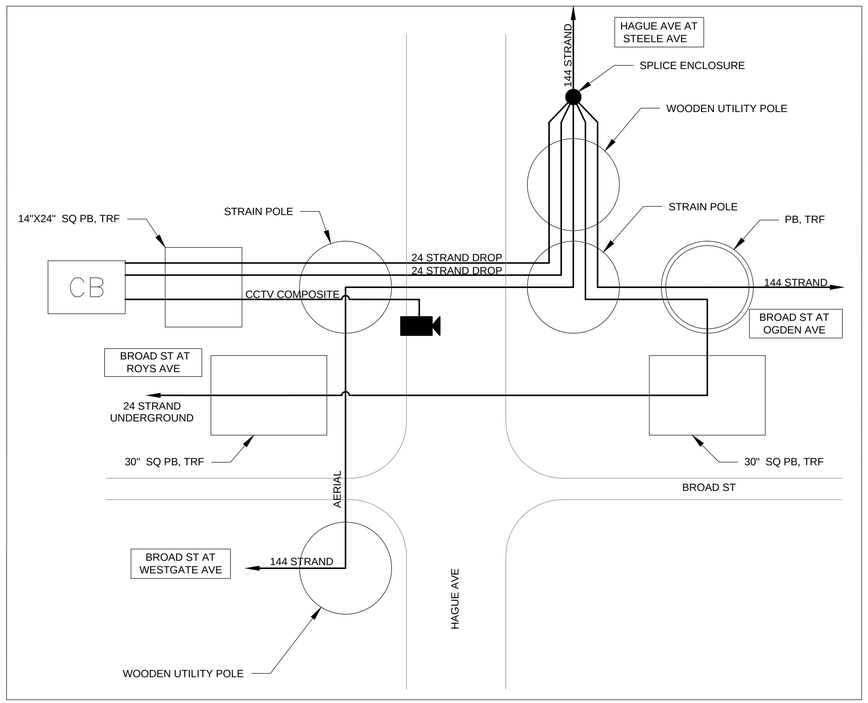
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DETAIL - INT 1048 (SHEET 67)



DETAIL - INT 1046 (SHEET 69)



CABLE SCHEMATIC FOR INT 1046 (SHEET 69)
NOT TO SCALE

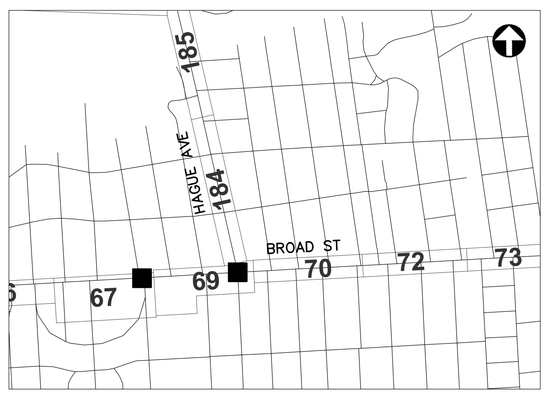
NOTES:

1. SEE SHEET 71 FOR QUANTITIES.
2. SEE SHEETS 600, 648 & 649 FOR COMMUNICATION DETAILS.
3. CAP AND COIL 150' OF 24 STRAND FOC AT THE SPLICE ENCLOSURE SE A-1 FOR FUTURE ODOT USE.
4. FOR THE SPLICE ENCLOSURE AT INT 1046, PROVIDE 75' OF SLACK FROM ALL THREE DIRECTIONS, WITH AN ADDITIONAL 150' OF SLACK FROM ANY ONE DIRECTION FOR THE 375' TOTAL.

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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 20 40

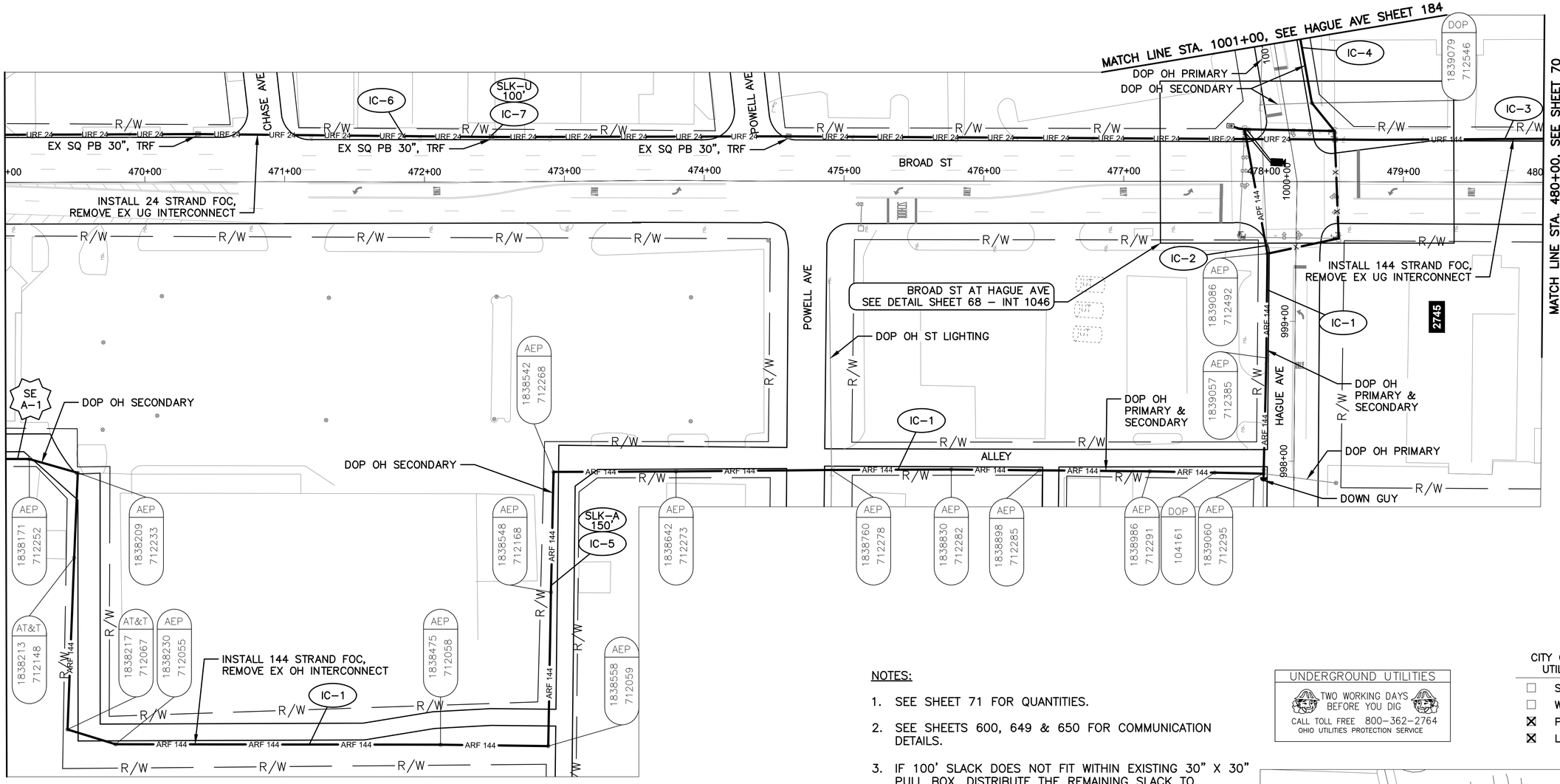
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT DETAILS
BROAD ST INT 1046, 1048 & BROAD/HAGUE CABLE SCHEMATIC

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

68
911

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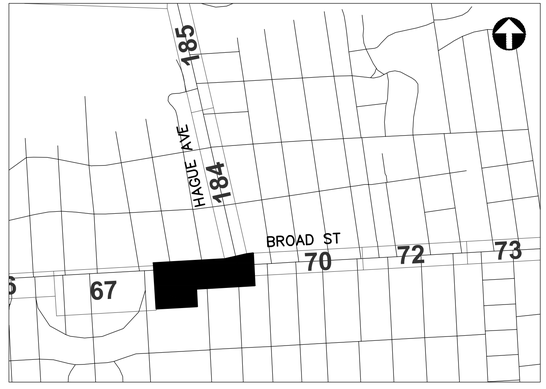
BROAD ST BETWEEN STATION 469+00 AND 480+00

NOTES:

1. SEE SHEET 71 FOR QUANTITIES.
2. SEE SHEETS 600, 649 & 650 FOR COMMUNICATION DETAILS.
3. IF 100' SLACK DOES NOT FIT WITHIN EXISTING 30" X 30" PULL BOX, DISTRIBUTE THE REMAINING SLACK TO ADJACENT PULL BOXES.
4. SPLICE ALL FIBERS, LIKE COLOR FIBER/BUFFER TUBES AT SE A–1.

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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100005
PID NUMBER: 14522

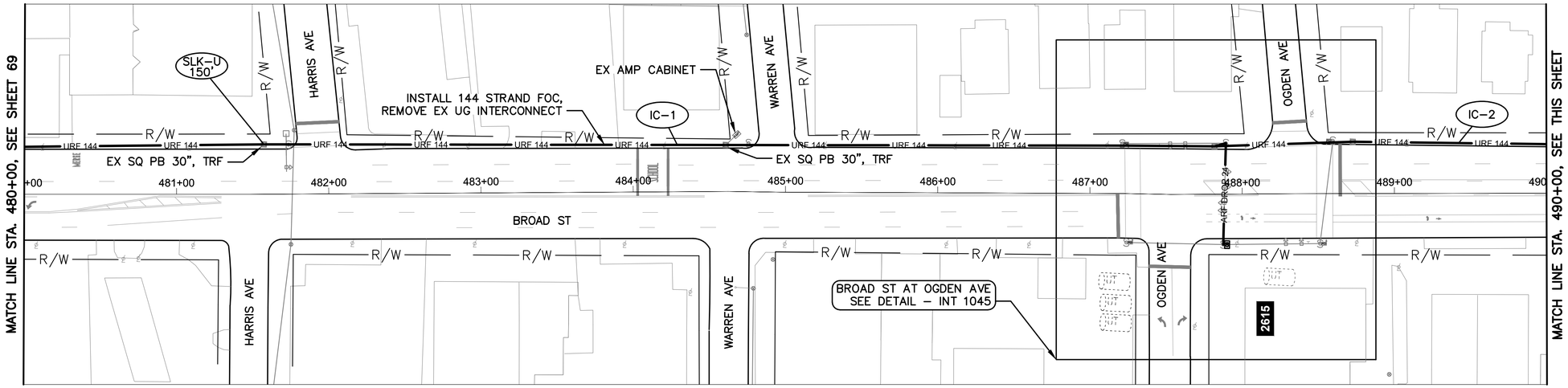
INTERCONNECT PLAN
BROAD ST BETWEEN STA. 469+00 AND 480+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

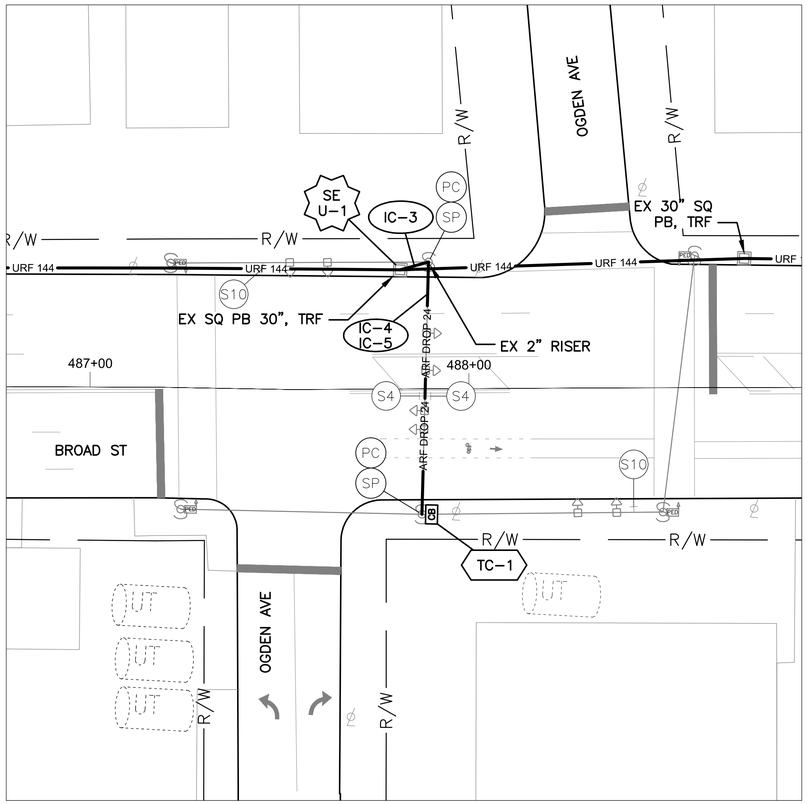
69
911

2953-E

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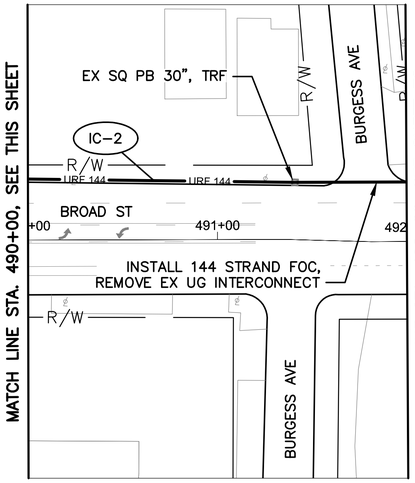
BROAD ST BETWEEN STATION 480+00 AND 490+00



DETAIL - INT 1045

0 20 40

HORIZONTAL SCALE IN FEET



BROAD ST BETWEEN STATION 490+00 AND 492+00

NOTES:

1. SEE SHEET 71 FOR QUANTITIES.
2. SEE SHEETS 600 & 651 FOR COMMUNICATION DETAILS.



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
BROAD ST BETWEEN STA. 480+00 AND 492+00, INT 1045

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

70
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	202 EXISTING CONDUIT CLEANED, AS PER PLAN (FT)	625 BRACKET ARM, 30', AS PER PLAN (EACH)	632 DOWN GUY (EACH)	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND (FT)	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND (FT)	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT (FT)	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT (FT)	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER (EACH)	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 144 FIBER (EACH)	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 FIBER (EACH)	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE (EACH)	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES (FT)	632 SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE (FT)	632 SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM (EACH)	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE (EACH)	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH (EACH)	633 CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER (EACH)	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN (EACH)		
BROAD ST. BETWEEN STA. 447+00 AND 458+00																									
66	IC-1	BROAD ST	447+00, 201' RT	458+00, 199' RT				1120		1103							1120								
66	IC-2	BROAD ST	453+67, 199' RT					150																	
BROAD ST. BETWEEN STA. 458+00 AND 469+00																									
67	IC-1	BROAD ST	458+00, 199' RT	463+42, 203' RT			1	549		541							586								
67	SE A-1	BROAD ST	463+42, 203' RT					150				1													
67	IC-2	BROAD ST	463+42, 203' RT	469+00, 198' RT			4	995		980							1011								
67	IC-4	BROAD ST	467+78, 35' LT	469+00, 34' LT	133				133		133														
67	IC-3	BROAD ST	468+53, 198' RT					150																	
BROAD ST., INTS 1048 & 1046																									
68	IC-8	BROAD ST	467+55, 33' RT	467+71, 35' LT						70							70								
68	TC-2	BROAD ST	467+55, 33' RT																	2	1		1		
68	IC-7	BROAD ST	467+55, 33' RT	467+78, 35' LT												1									
68	IC-6	BROAD ST	467+71, 35' LT	467+78, 35' LT	7						7														
68	SE U-1	BROAD ST	467+78, 35' LT						75				1												
68	TC-1	BROAD ST	477+76, 40' LT															10		4	1	1			
68	IC-4	BROAD ST	477+76, 40' LT	477+86, 37' LT	10						10														
68	EC-1	BROAD ST	477+76, 40' LT	477+86, 37' LT														10							
68	IC-3	BROAD ST	477+76, 40' LT	478+34, 56' LT												2									
68	EC-2	BROAD ST	477+86, 37' LT			1												35							
68	EC-3	BROAD ST	477+86, 37' LT	478+05, 14' LT														30							
68	R-1	BROAD ST	478+02, 52' RT	478+50, 36' LT						129															
68	CTV-1	BROAD ST	478+05, 14' LT															1							
68	SE A-1	BROAD ST	478+34, 56' LT					375	150						1										
68	IC-1	BROAD ST	478+34, 56' LT	478+50, 36' LT				26		26							26								
68	IC-5	BROAD ST	478+34, 56' LT	478+81, 30' LT					57																
68	IC-2	BROAD ST	478+50, 36' LT					35	35																
BROAD ST. BETWEEN STA. 469+00 AND 480+00																									
69	IC-1	BROAD ST	469+00, 198' RT	478+02, 52' RT			1	1465		1443							1465								
69	IC-6	BROAD ST	469+00, 34' LT	478+81, 30' LT	981				981		981														
69	IC-7	BROAD ST	472+47, 32' LT						100																
69	IC-5	BROAD ST	472+87, 289' RT					150																	
69	IC-2	BROAD ST	478+02, 52' RT	478+34, 56' LT				183									183								
69	IC-4	BROAD ST	478+25, 102' LT	478+34, 56' LT				46																	
69	IC-3	BROAD ST	478+50, 36' LT	480+00, 31' LT	150			150			150														
BROAD ST. BETWEEN STA. 480+00 AND 492+00, INT 1045																									
70	IC-1	BROAD ST	480+00, 31' LT	487+82, 31' LT	782			782			782														
70	SE U-1	BROAD ST	487+82, 31' LT					150					1												
70	IC-3	BROAD ST	487+82, 31' LT	487+89, 33' LT	8						8														
70	IC-2	BROAD ST	487+82, 31' LT	492+00, 31' LT	418			418			418														
70	IC-4	BROAD ST	487+82, 31' LT	487+87, 33' RT								1				1									
70	IC-5	BROAD ST	487+87, 33' RT	487+89, 33' LT						67							68								
70	TC-1	BROAD ST	487+87, 33' RT																	2	1		1		
SHEET TOTAL					2489	1	6	6894	1531	4359	2489	2	2	1	4	4529	85	1	8	3	1	2	-	-	

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

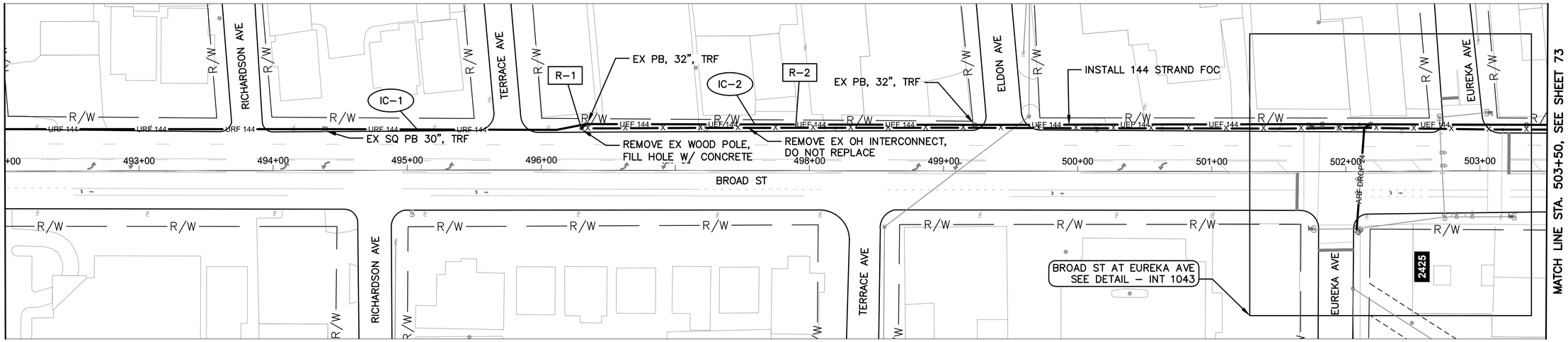
QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

CIP: 540007–100005
PID NUMBER: 14522

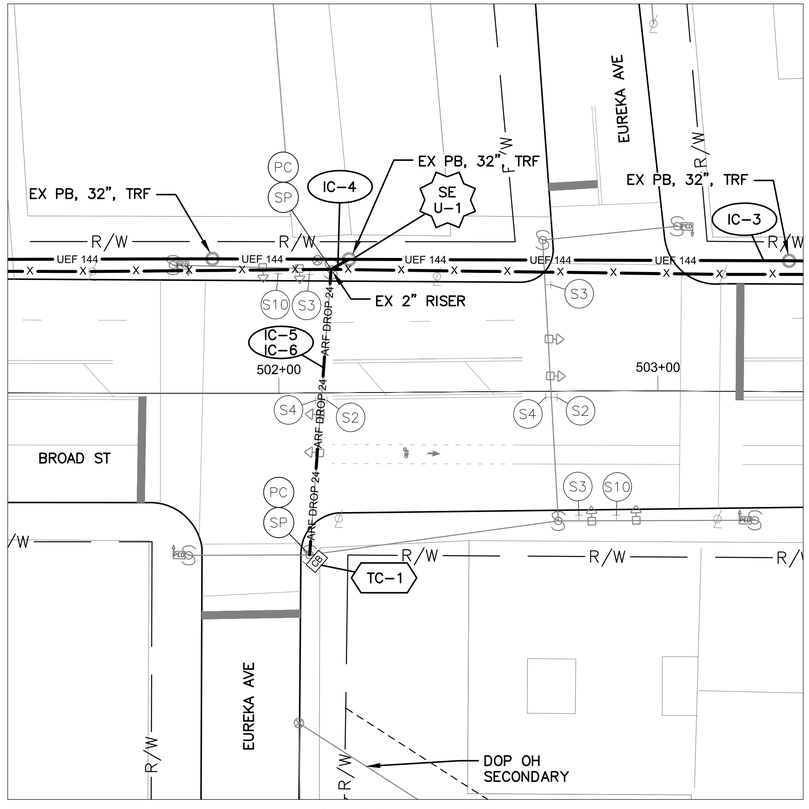
BROAD ST BTW STA. 447+00 AND 492+00
INTS 1048, 1046, 1045

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

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BROAD ST BETWEEN STATION 492+00 AND 503+50



DETAIL - INT 1043

0 20 40

HORIZONTAL SCALE IN FEET

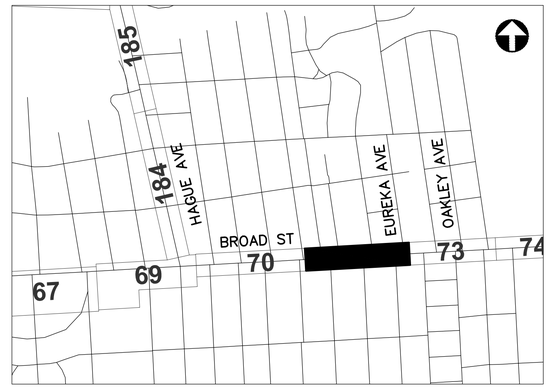
NOTES:

1. SEE SHEET 76 FOR QUANTITIES.
2. SEE SHEETS 600 & 652 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80

HORIZONTAL SCALE IN FEET

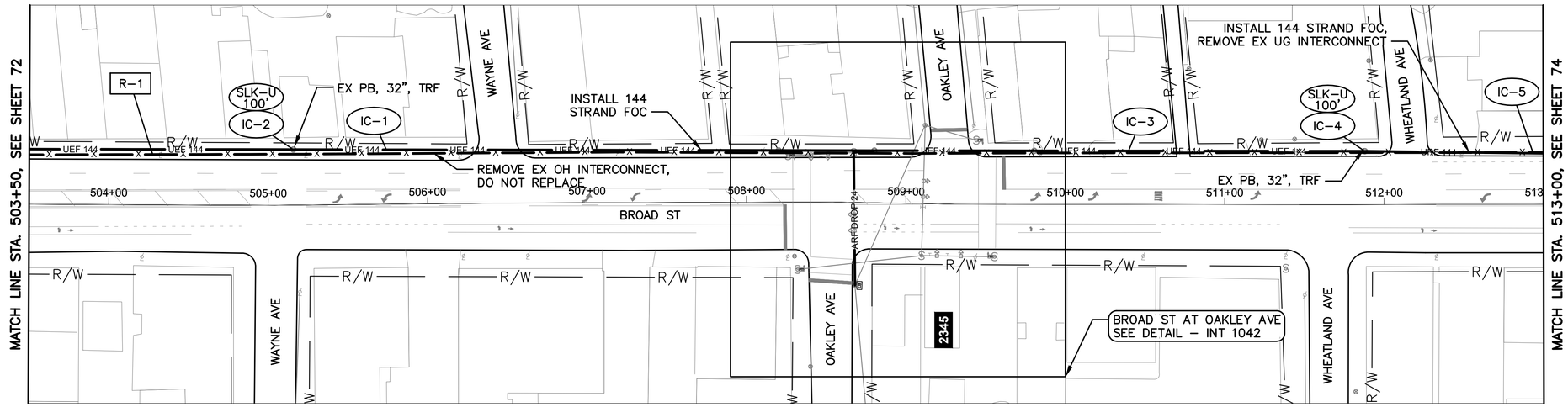
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PID NUMBER: 14522

INTERCONNECT PLAN
BROAD ST BETWEEN STA. 492+00 AND 503+50, INT 1043

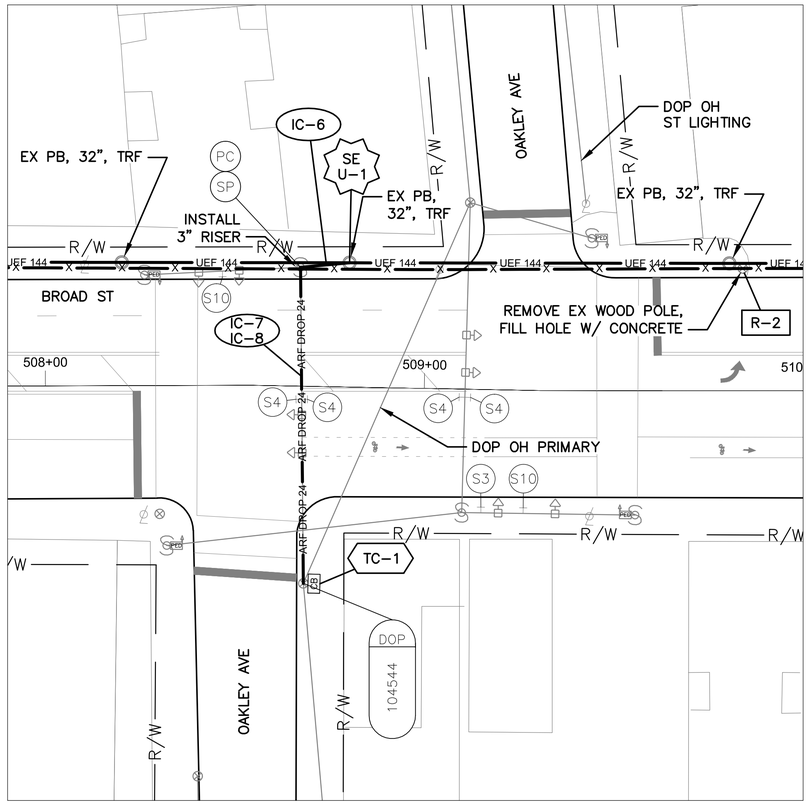
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

72
911

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BROAD ST BETWEEN STATION 503+50 AND 513+00



DETAIL - INT 1042

0 20 40
HORIZONTAL SCALE IN FEET

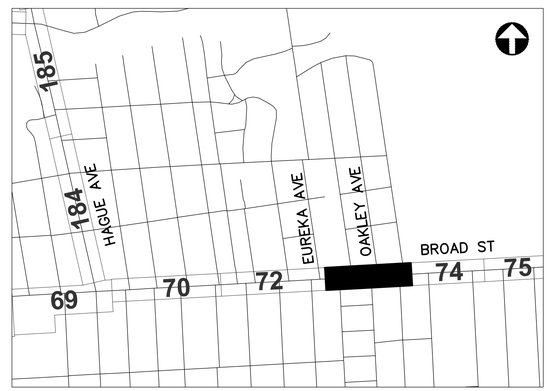
NOTES:

1. SEE SHEET 76 FOR QUANTITIES.
2. SEE SHEETS 600 & 653 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
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CALL TOLL FREE 800-362-2764
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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

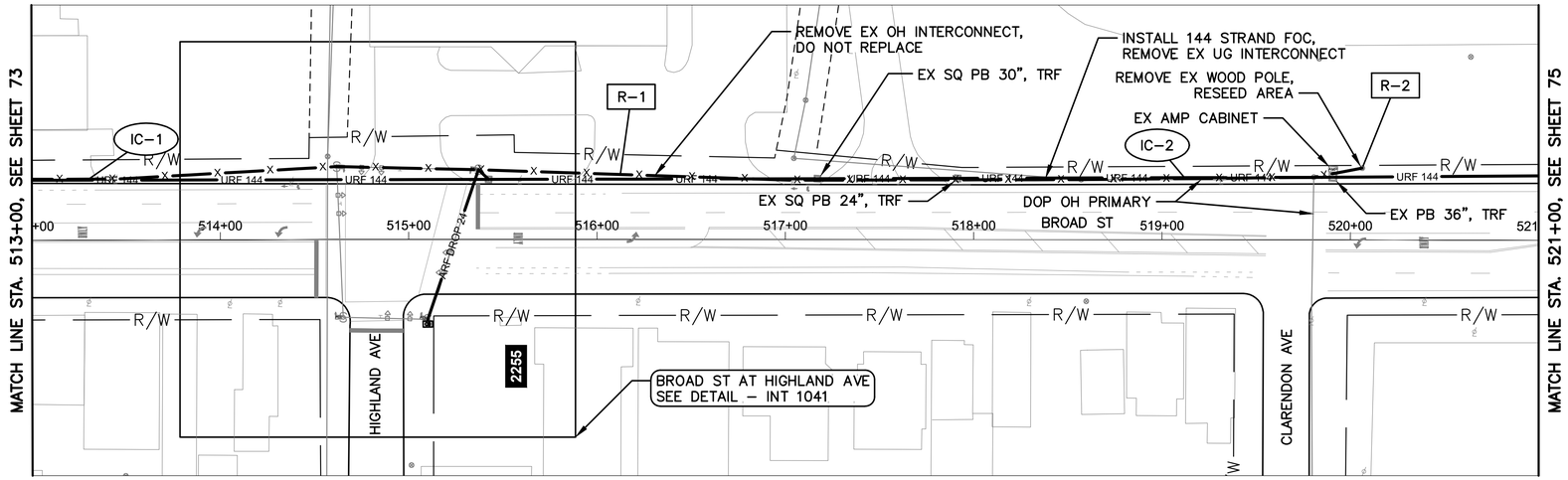
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PID NUMBER: 14522

INTERCONNECT PLAN
BROAD ST BETWEEN STA. 503+50 AND 513+00, INT 1042

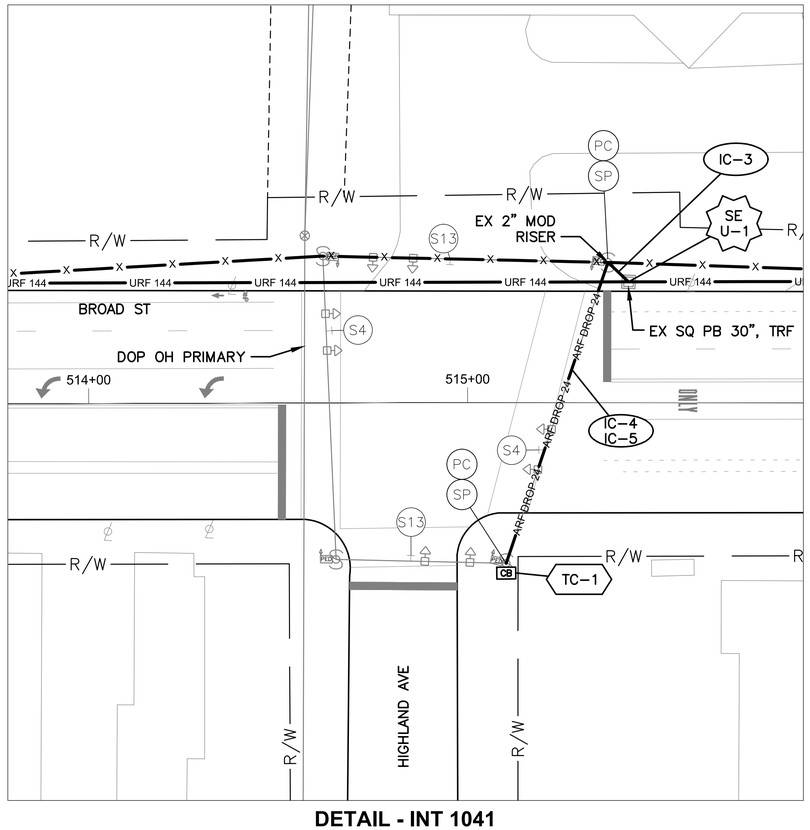
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c – CONSTRUCTION AS-BUILT

73
911

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BROAD ST BETWEEN STATION 513+00 AND 521+00



DETAIL - INT 1041

0 20 40
HORIZONTAL SCALE IN FEET

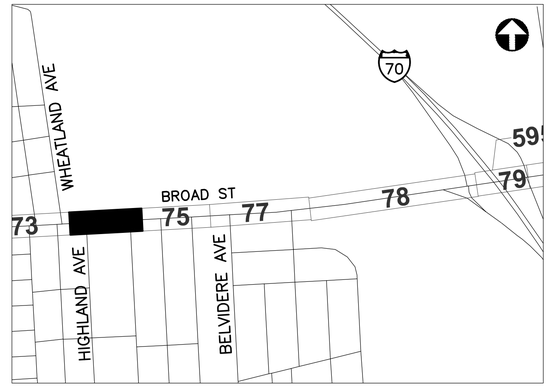
NOTES:

1. SEE SHEET 76 FOR QUANTITIES.
2. SEE SHEETS 600 & 654 FOR COMMUNICATION DETAILS.
3. 150' ADDITIONAL SLACK QUANTIFIED AT SPLICE LOCATION FOR FUTURE DoT USE.

UNDERGROUND UTILITIES
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CITY OF COLUMBUS UTILITY LEGEND

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- ☐ WATER
- ☒ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

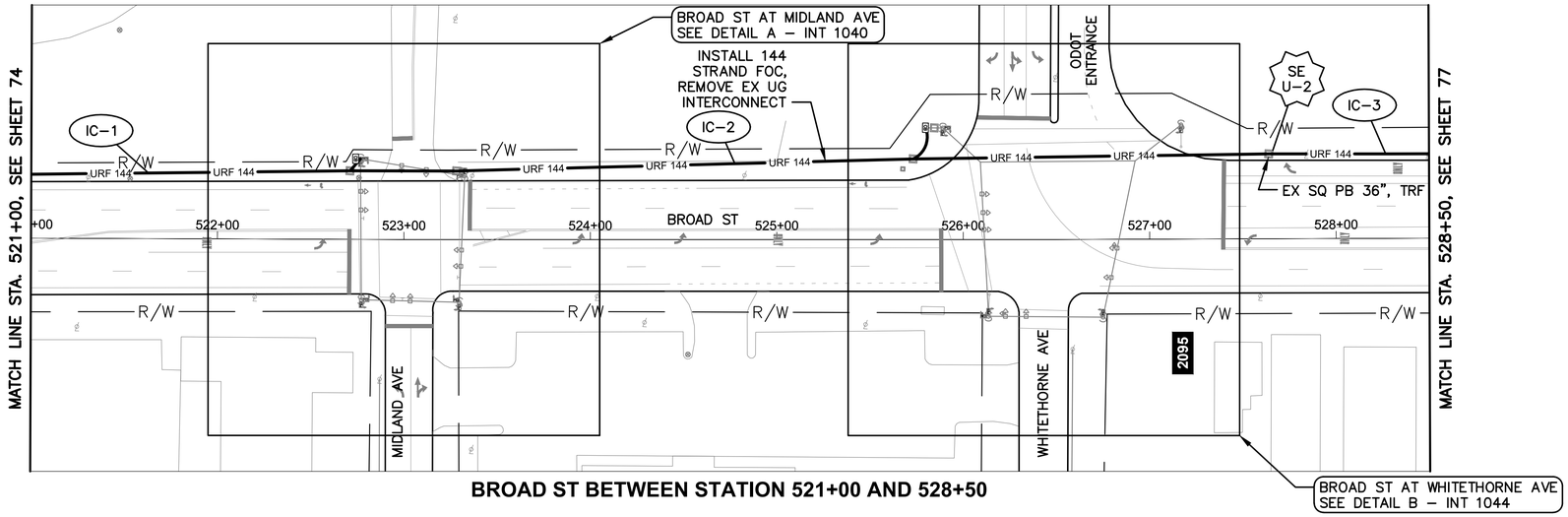
INTERCONNECT PLAN
BROAD ST BETWEEN STA. 513+00 AND 521+00, INT 1041

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c – CONSTRUCTION AS-BUILT

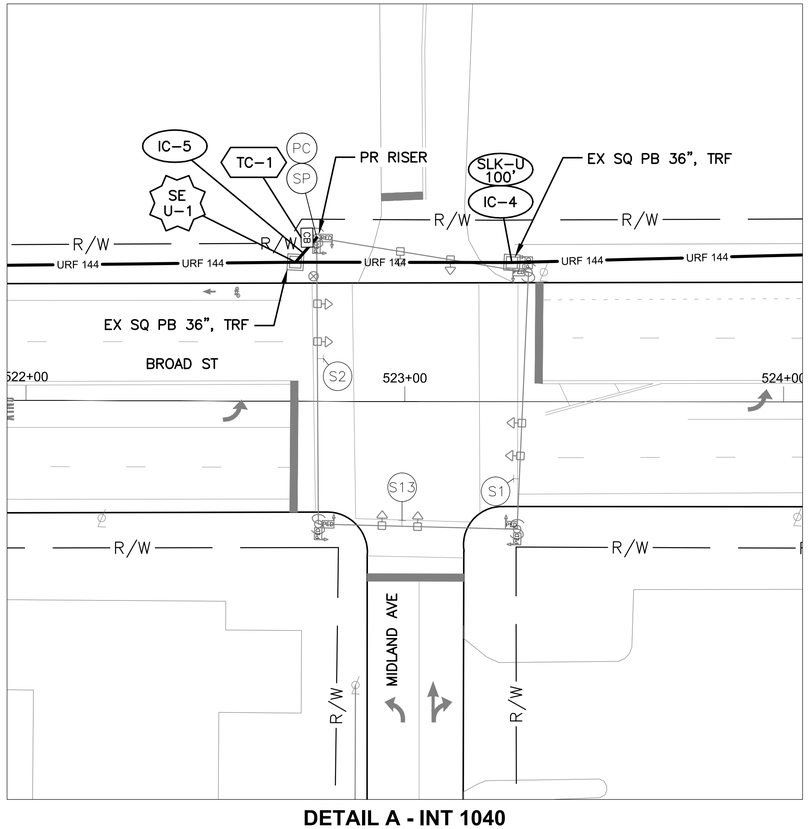
74
911

2953-E

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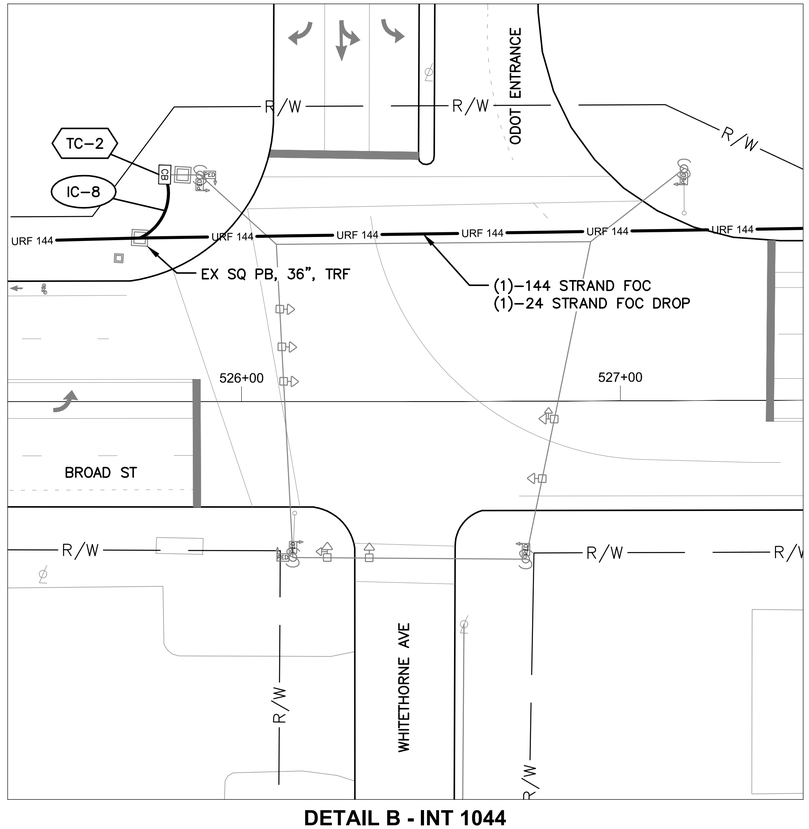


BROAD ST BETWEEN STATION 521+00 AND 528+50



DETAIL A - INT 1040

0 20 40
HORIZONTAL
SCALE IN FEET



DETAIL B - INT 1044

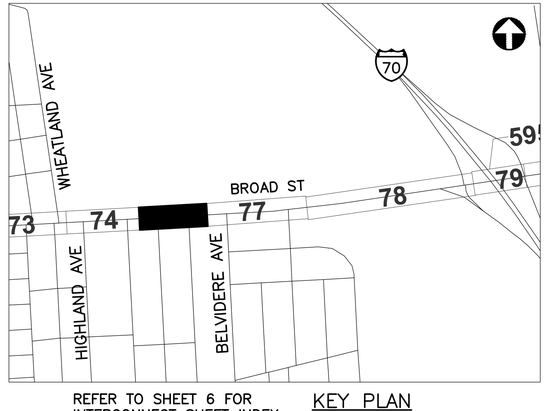
0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 76 FOR QUANTITIES.
2. SEE SHEETS 600, 655 & 656 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL
SCALE IN FEET
0 40 80

CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
BROAD ST BETWEEN STA. 521+00 AND 528+50, INTS 1040 & 1044

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

75
911

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_WBROAD_B_INTERCONNECT.dwg ~ W BROAD 13 layout ~ last saved by: sdlowry 05/08/2017 11:28am ~ printed 05/08/2017 07:52pm

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	202	632	632	632	632	632	632	632	632	633	633	633	633						
					EXISTING CONDUIT CLEANED, AS PER PLAN	REMOVAL, MISC.: REMOVE EXISTING WOOD POLE	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 144 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 144 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN						
			FROM	TO	FT	EACH	FT	FT	FT	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH						
BROAD ST. BETWEEN STA. 492+00 AND 503+50, INT 1043																								
72	IC-1	BROAD ST	492+00, 31' LT	496+34, 34' LT	433		433		443															
72	IC-2	BROAD ST	496+34, 34' LT	502+18, 32' LT	584		584																	
72	R-1	BROAD ST	496+30, 31' LT			1																		
72	R-2	BROAD ST	496+30, 31' LT	503+50, 31' LT				720																
72	IC-5	BROAD ST	502+07, 43' RT	502+14, 33' LT				76						77										
72	TC-1	BROAD ST	502+07, 43' RT												2	1	1							
72	IC-6	BROAD ST	502+07, 43' RT	502+18, 32' LT									1											
72	IC-4	BROAD ST	502+14, 33' LT	502+18, 32' LT	5				5															
72	SE U-1	BROAD ST	502+18, 32' LT				150				1													
72	IC-3	BROAD ST	502+18, 32' LT	503+50, 31' LT	132		132																	
BROAD ST. BETWEEN STA. 503+50 AND 513+00, INT 1042																								
73	R-1	BROAD ST	503+50, 31' LT	513+00, 32' LT				1000																
73	IC-1	BROAD ST	503+50, 31' LT	508+70, 31' LT	521		521																	
73	IC-2	BROAD ST	505+02, 31' LT				100																	
73	IC-5	BROAD ST	508+66, 31' LT	508+70, 31' LT	4				4															
73	IC-6	BROAD ST	508+66, 31' LT	508+69, 52' RT				83						84										
73	TC-1	BROAD ST	508+69, 52' RT												2	1	1							
73	IC-7	BROAD ST	508+69, 52' RT	508+70, 31' LT									1											
73	SE U-1	BROAD ST	508+70, 31' LT				150				1													
73	IC-3	BROAD ST	508+70, 31' LT	511+89, 34' LT	308		308																	
73	R-2	BROAD ST	508+84, 32' LT			1																		
73	IC-4	BROAD ST	511+89, 34' LT	513+00, 32' LT	112		112		112															
BROAD ST. BETWEEN STA. 513+00 AND 521+00, INT 1041																								
74	R-1	BROAD ST	513+00, 32' LT	521+00, 34' LT				800																
74	IC-1	BROAD ST	513+00, 32' LT	515+42, 32' LT	243		243		243															
74	IC-5	BROAD ST	515+10, 42' RT	515+37, 37' LT				84						85										
74	TC-1	BROAD ST	515+10, 42' RT												2	1	1							
74	IC-4	BROAD ST	515+10, 42' RT	515+42, 32' LT									1											
74	IC-3	BROAD ST	515+37, 37' LT	515+42, 32' LT	7				7															
74	SE U-1	BROAD ST	515+42, 32' LT				300			1														
74	IC-2	BROAD ST	515+42, 32' LT	521+00, 34' LT	558		558		558															
74	R-1	BROAD ST	520+06, 38' LT			1																		
BROAD ST. BETWEEN STA. 521+00 AND 528+50, INTS 1040 & 1044																								
75	IC-1	BROAD ST	521+00, 34' LT	523+28, 37' LT	228		228		228															
75	IC-4	BROAD ST	522+71, 38' LT				100																	
75	TC-1	BROAD ST	522+76, 43' LT												2	1	1							
75	IC-6	BROAD ST	522+76, 43' LT	523+28, 37' LT									1											
75	IC-7	BROAD ST	522+76, 43' LT	523+32, 34' LT				57						58										
75	SE U-1	BROAD ST	523+28, 37' LT				150			1														
75	IC-5	BROAD ST	523+28, 37' LT	523+32, 34' LT	5				5															
75	IC-2	BROAD ST	523+28, 37' LT	525+73, 43' LT	245		245		245															
75	SE U-2	BROAD ST	525+73, 43' LT				150			1														
75	IC-8	BROAD ST	525+73, 43' LT	525+79, 60' LT	18				18			1												
75	IC-3	BROAD ST	525+73, 43' LT	528+50, 45' LT	277		277		277															
75	TC-2	BROAD ST	525+79, 60' LT												2	1	1							
SHEET TOTAL					3680	3	4741	2820	2145	2	3	1	4	304	10	5	4	1	-	-	-	-	-	-

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

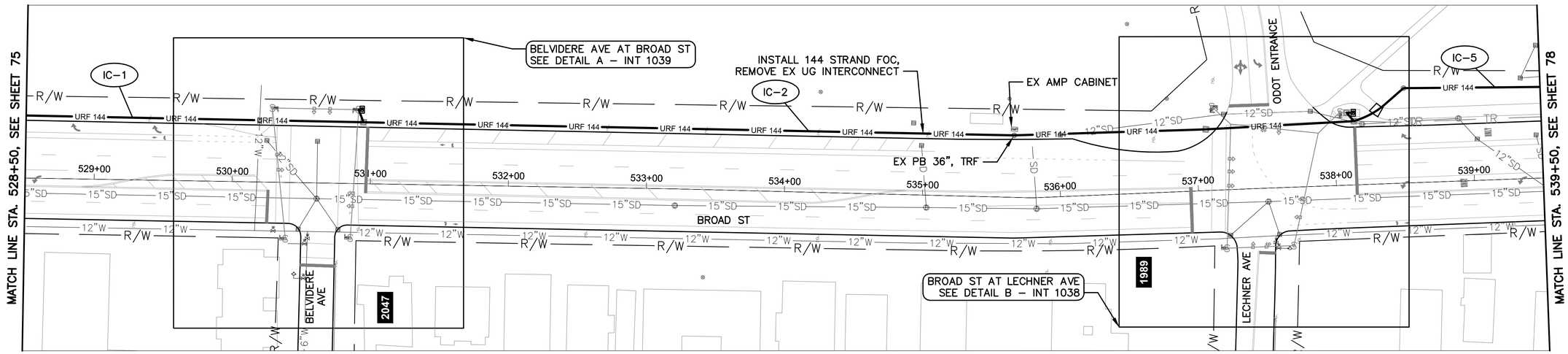
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PID NUMBER: 14522

BROAD ST BTW STA. 492+00 AND 528+50
INTS 1043, 1042, 1041, 1040, 1044

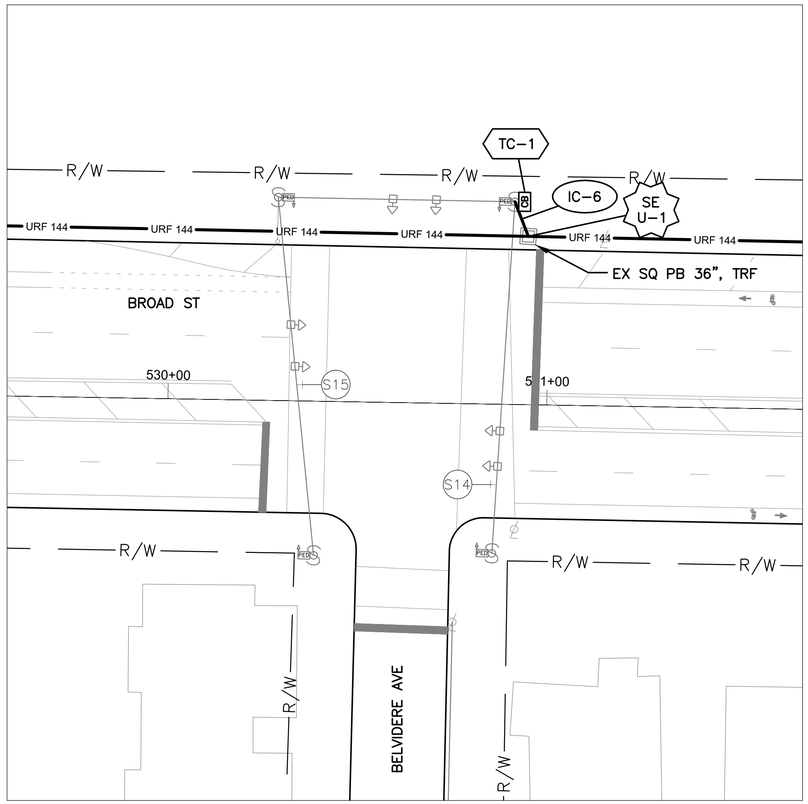
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

76
911

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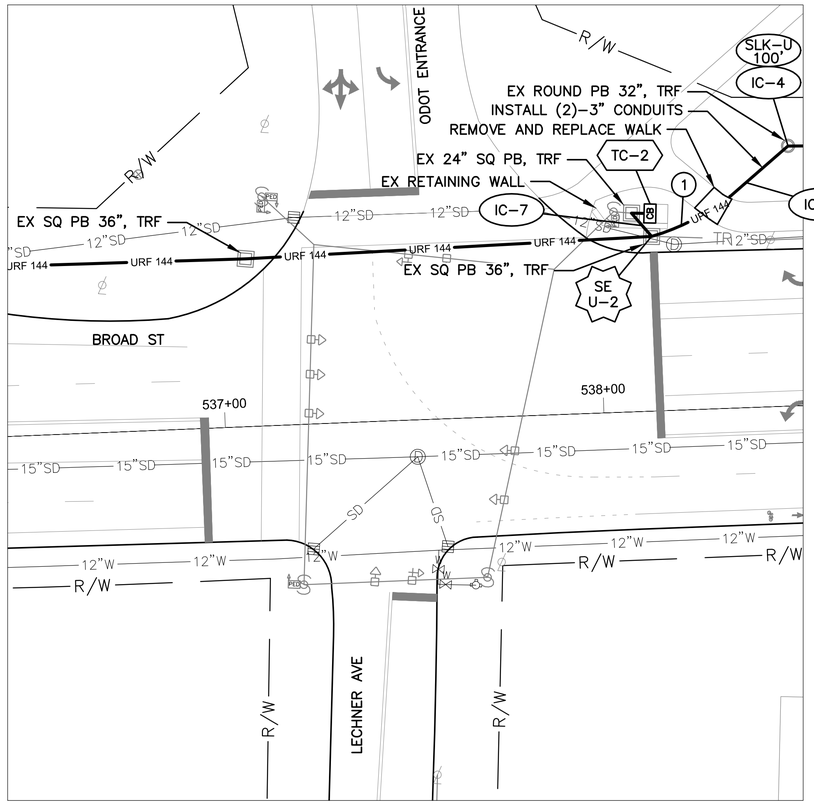
BROAD ST BETWEEN STATION 528+50 AND 539+50



DETAIL A - INT 1039

0 20 40

HORIZONTAL SCALE IN FEET



DETAIL B - INT 1038

0 20 40

HORIZONTAL SCALE IN FEET

NOTES:

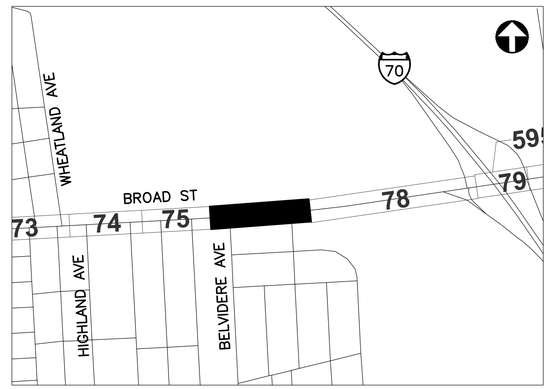
1. SEE SHEET 82 FOR QUANTITIES.
2. SEE SHEETS 600, 657 & 658 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 12.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80

HORIZONTAL SCALE IN FEET

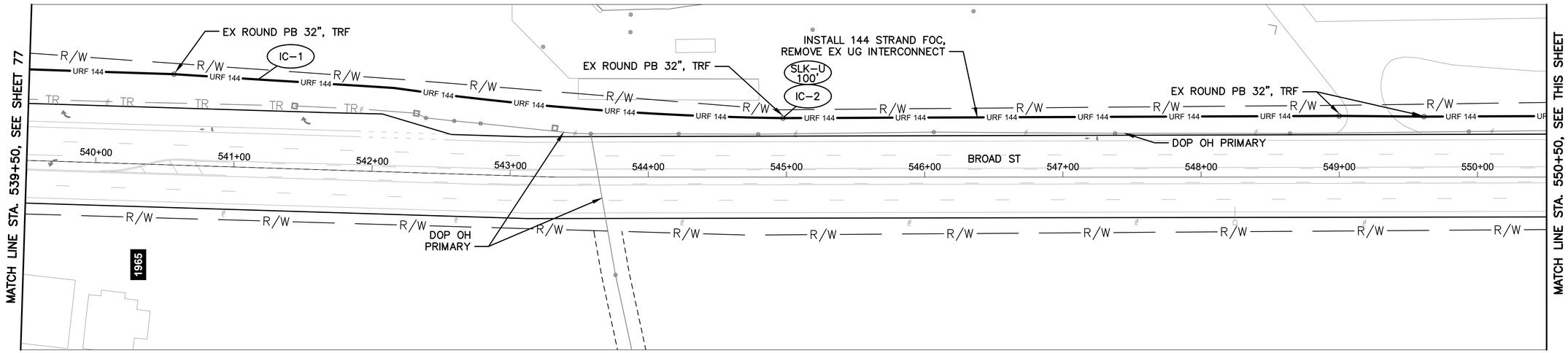
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PID NUMBER: 14522

INTERCONNECT PLAN
BROAD ST BETWEEN STA. 528+50 AND 539+50, INTS 1039 & 1038

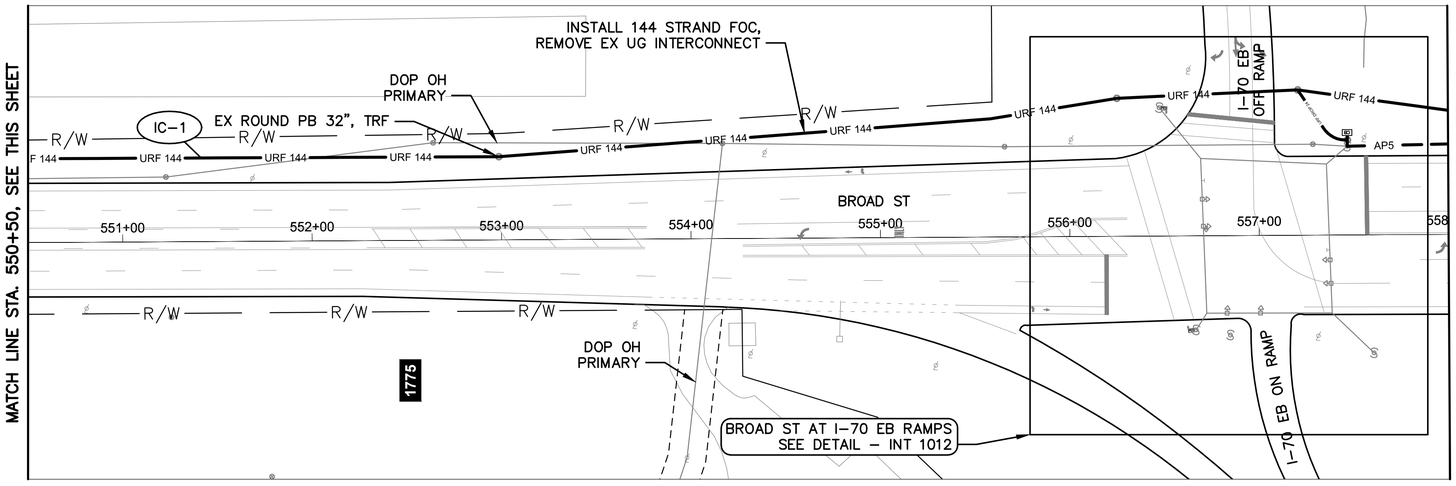
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

2953-E

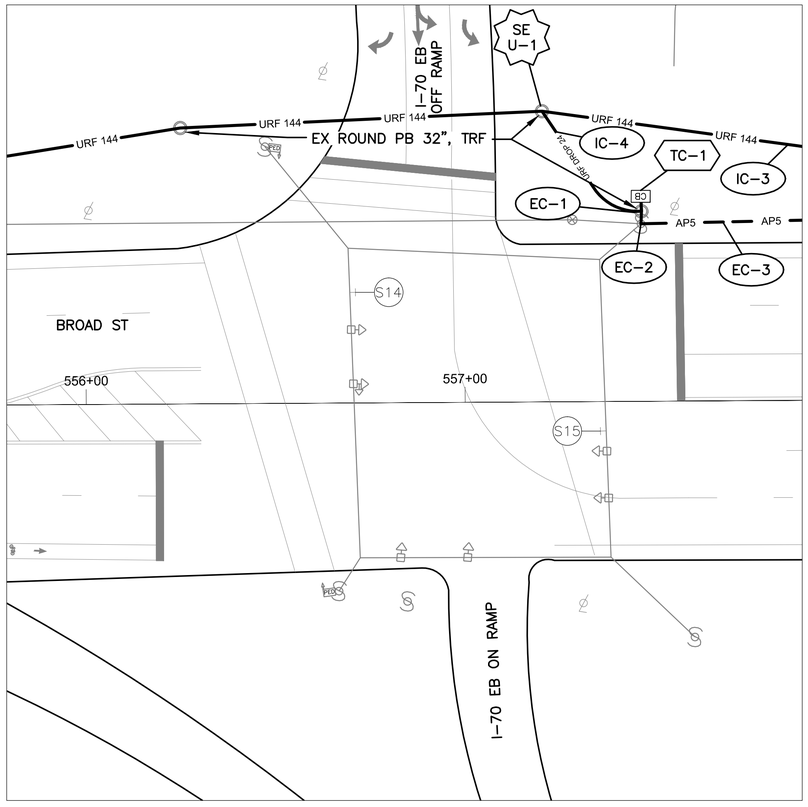
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BROAD ST BETWEEN STATION 539+50 AND 550+50



BROAD ST BETWEEN STATION 550+50 AND 558+00



DETAIL - INT 1012

0 20 40

HORIZONTAL SCALE IN FEET

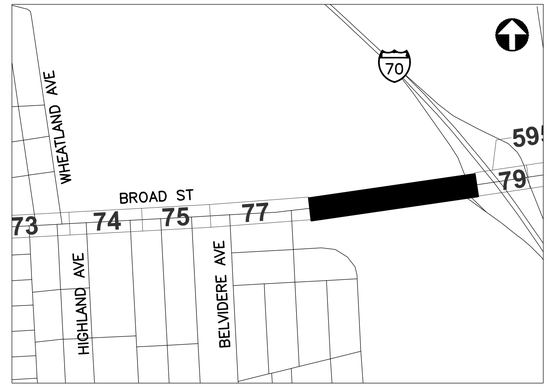
NOTES:

1. SEE SHEET 82 FOR QUANTITIES.
2. SEE SHEETS 600 & 659 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

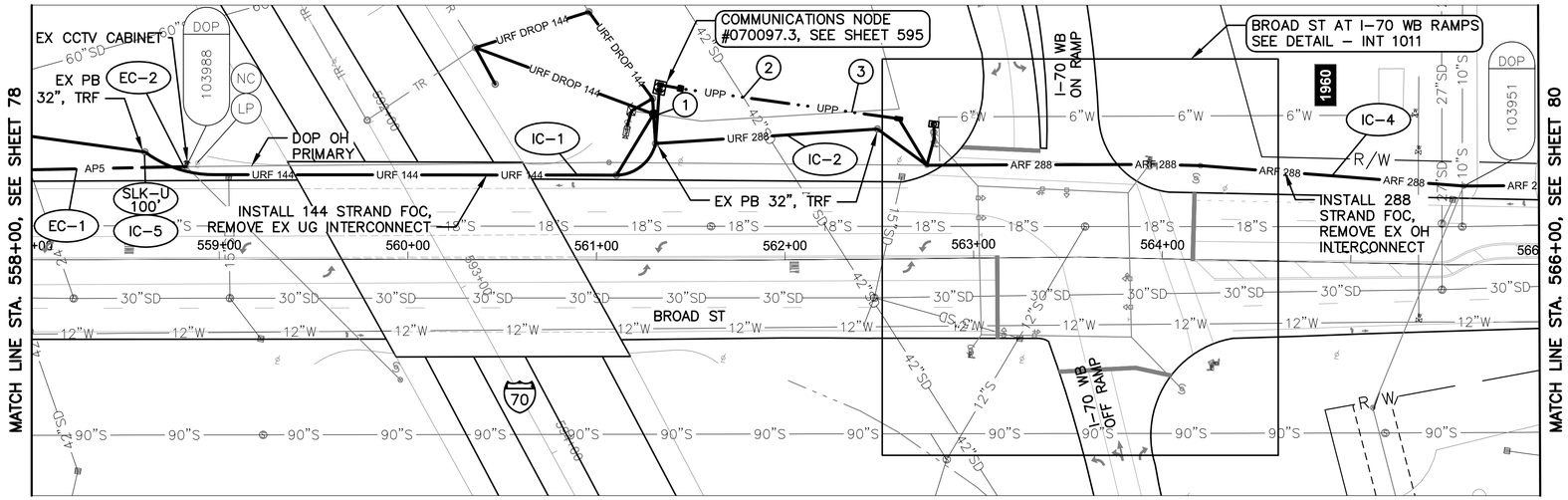
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PID NUMBER: 14522

INTERCONNECT PLAN
BROAD ST BETWEEN STA. 539+50 AND 558+00, INT 1012

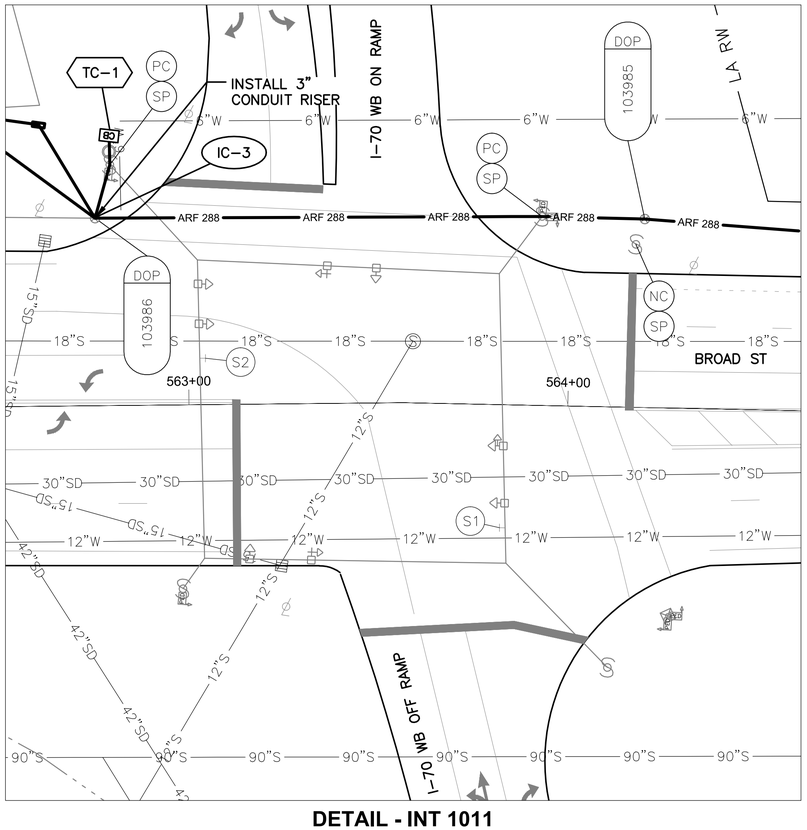
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

78
911

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BROAD ST BETWEEN STATION 558+00 AND 566+00



DETAIL - INT 1011

0 20 40

HORIZONTAL SCALE IN FEET

NOTES:

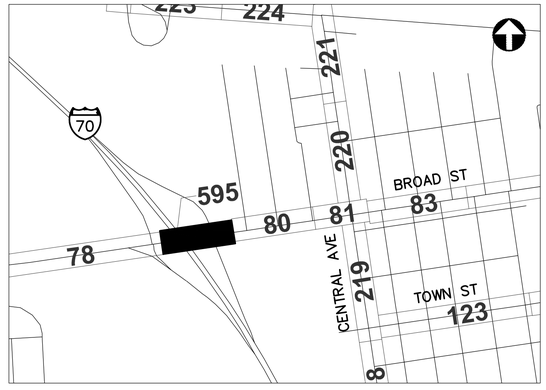
1. SEE SHEET 82 FOR QUANTITIES.
2. SEE SHEETS 600 & 660 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.
4. SEE SHEET 596 FOR NODE QUANTITIES, INCLUDING CAT 5E CABLE TO CONTROLLER.
5. SEE SHEET 289 FOR POWER SERVICE DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 12.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- [X] SEWER
- [ ] WATER
- [X] POWER
- [ ] LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80

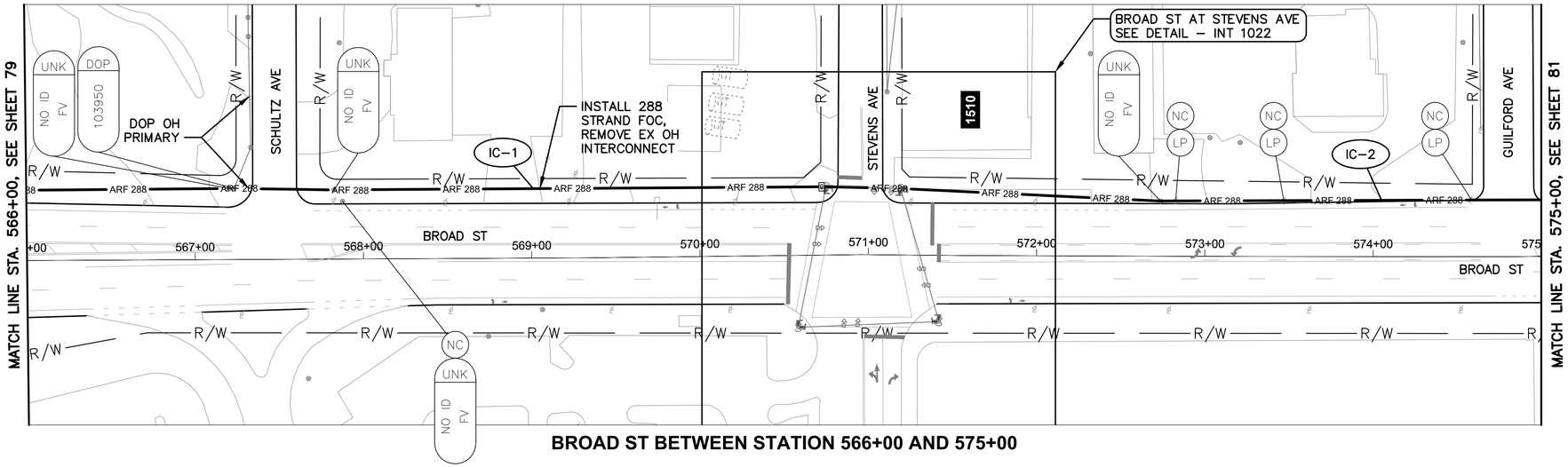
HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

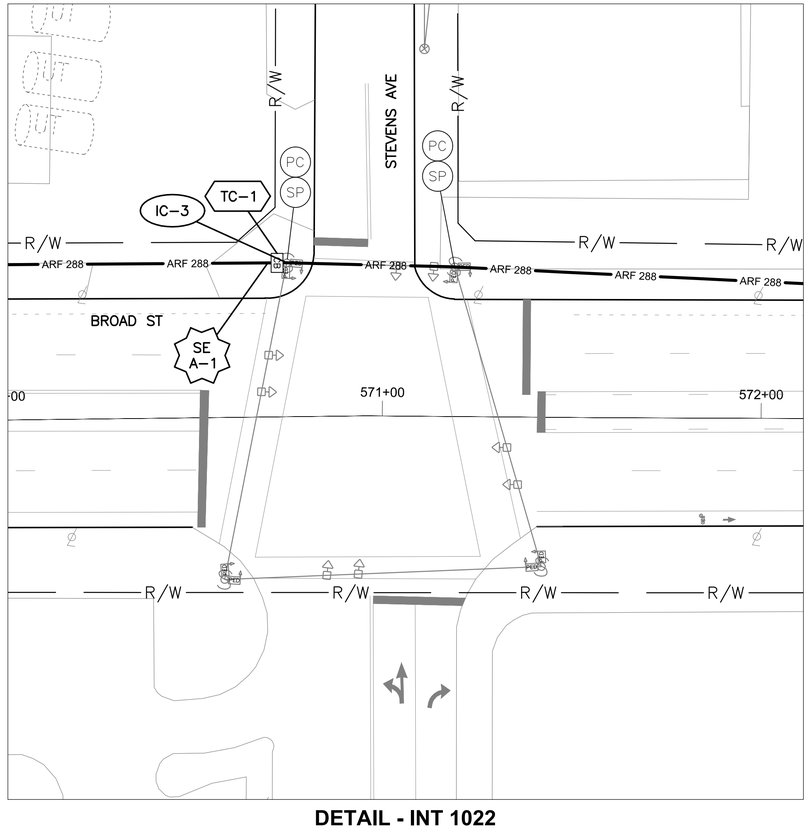
INTERCONNECT PLAN
BROAD ST BETWEEN STA. 558+00 AND 570+00, INT 1011

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c - CONSTRUCTION AS-BUILT

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BROAD ST BETWEEN STATION 566+00 AND 575+00



DETAIL - INT 1022

0 20 40
HORIZONTAL
SCALE IN FEET

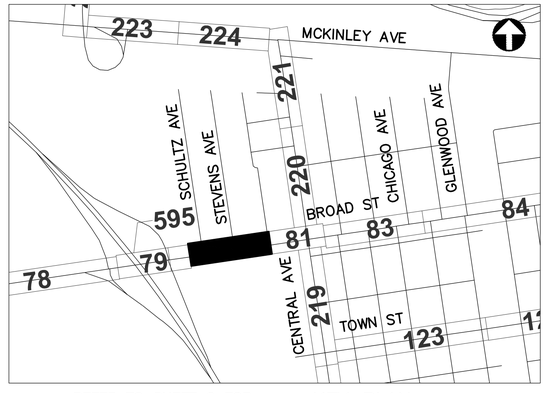
NOTES:

1. SEE SHEET 82 FOR QUANTITIES.
2. SEE SHEETS 600 & 661 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

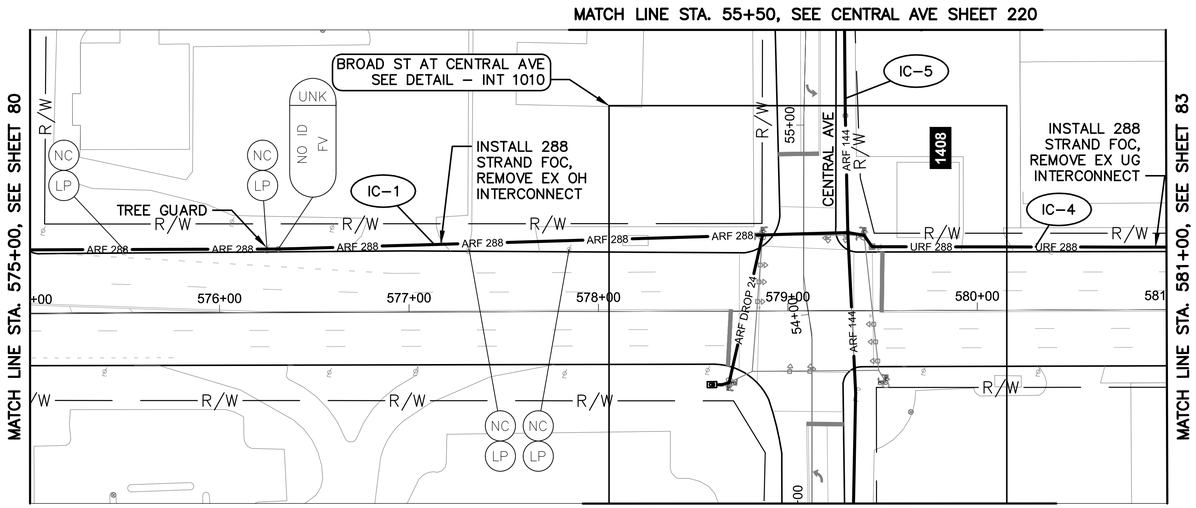
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INTERCONNECT PLAN
BROAD ST BETWEEN STA. 566+00 AND 575+00, INT 1022

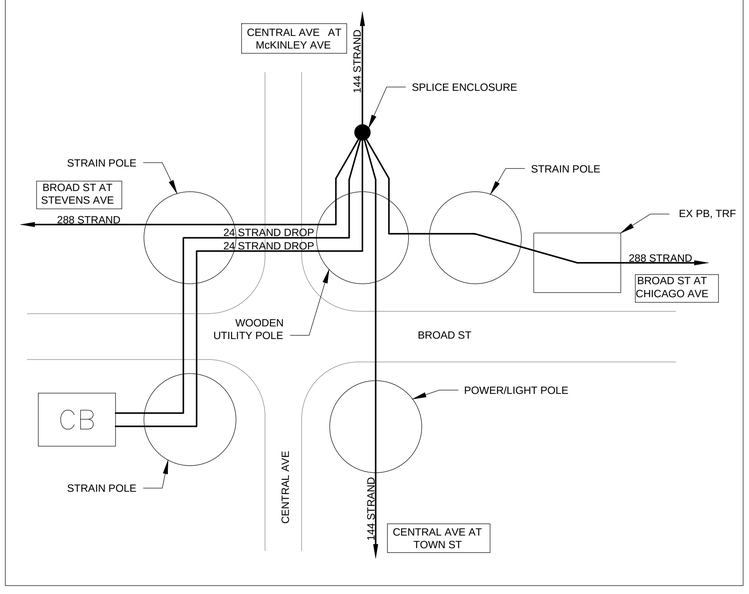
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

80
911

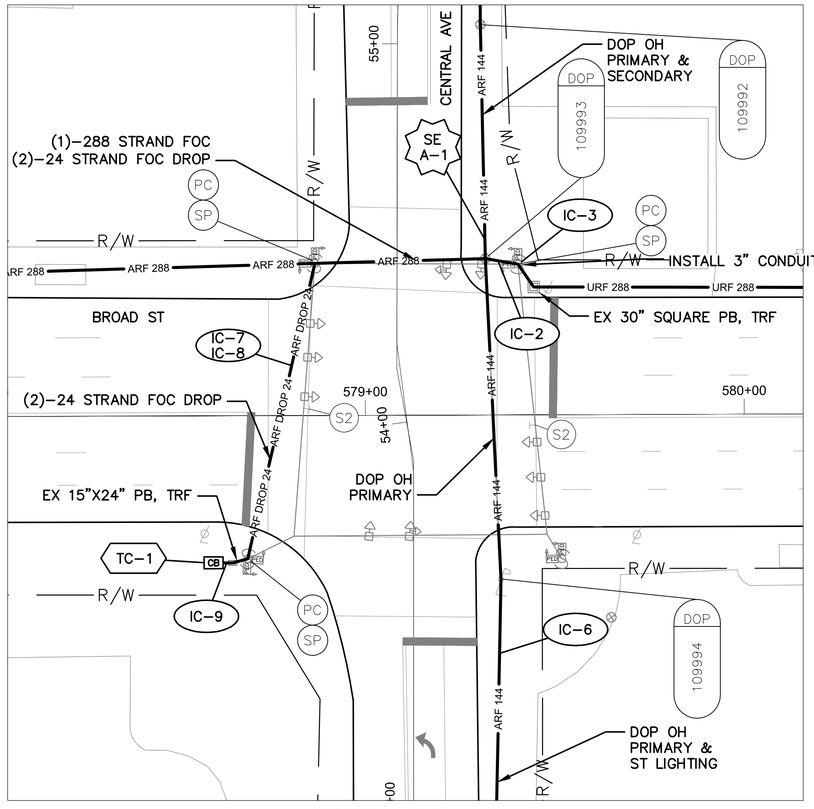
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BROAD ST BETWEEN STATION 575+00 AND 581+00



CABLE SCHEMATIC
NOT TO SCALE



DETAIL - INT 1010

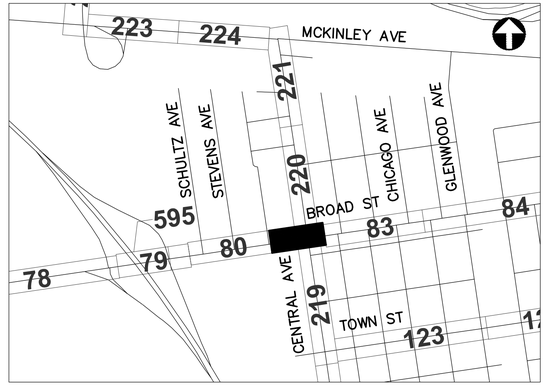
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 82 FOR QUANTITIES.
2. SEE SHEETS 605 & 662 FOR COMMUNICATION DETAILS.
3. FOR THE SPLICE ENCLOSURE AT INT 1010, PROVIDE 75' OF SLACK FROM ALL FOUR DIRECTIONS, FOR THE 300' TOTAL.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
BROAD ST BETWEEN STA. 575+00 AND 581+00, INT 1010

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

2953-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	632	632	632	632	632	632	632	632	632	632	633	633	633	633		
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT RISER, 3", 725.04, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 144 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	SIGNALIZATION, MISC.: CAT 5E CABLE, OUTDOOR RATED	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN		
			FROM	TO	FT	FT	FT	EACH	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH		
BROAD ST. BETWEEN STA. 528+50 AND 539+50, INTS 1039 & 1038																								
77	IC-1	BROAD ST	528+50, 45' LT	530+94, 44' LT	244				244		244													
77	TC-1	BROAD ST	530+90, 53' LT																2	1		1		
77	IC-6	BROAD ST	530+90, 53' LT	530+94, 44' LT	10						10				1									
77	SE U-1	BROAD ST	530+94, 44' LT						150			1												
77	IC-2	BROAD ST	530+94, 44' LT	538+13, 47' LT	717				717		717													
77	SE U-2	BROAD ST	538+14, 46' LT						150			1												
77	IC-3	BROAD ST	538+14, 46' LT	538+51, 69' LT		43	43		43															
77	IC-7	BROAD ST	538+14, 46' LT	538+14, 52' LT	18						18				1									
77	TC-2	BROAD ST	538+14, 52' LT																2	1		1		
77	IC-5	BROAD ST	538+51, 69' LT	539+50, 66' LT	99				99		99													
77	IC-4	BROAD ST	538+51, 69' LT						100															
BROAD ST. BETWEEN STA. 539+50 AND 558+00, INT 1012																								
78	IC-1	BROAD ST	539+50, 66' LT	557+20, 77' LT	1771				1771		1771													
78	IC-2	BROAD ST	544+97, 43' LT						100															
78	SE U-1	BROAD ST	557+20, 77' LT						150			1												
78	IC-4	BROAD ST	557+20, 77' LT	557+46, 54' LT	43						43													
78	IC-3	BROAD ST	557+20, 77' LT	558+00, 65' LT	80				80		80													
78	EC-2	BROAD ST	557+46, 47' LT															35						
78	EC-3	BROAD ST	557+46, 47' LT	558+00, 49' LT													55	55						
78	EC-1	BROAD ST	557+46, 47' LT	557+46, 54' LT	7													7						
78	TC-1	BROAD ST	557+46, 54' LT															10	1	1		1		
BROAD ST. BETWEEN STA. 558+00 AND 566+00, INT 1011																								
79	IC-1	BROAD ST	558+00, 65' LT	561+27, 54' LT	334				334		334													
79	EC-1	BROAD ST	558+00, 65' LT	558+82, 49' LT													83	83						
79	IC-5	BROAD ST	558+60, 57' LT						100															
79	EC-2	BROAD ST	558+82, 49' LT															45						
79	IC-2	BROAD ST	561+27, 54' LT	562+75, 50' LT	155				155		155													
79	IC-3	BROAD ST	562+75, 50' LT					1	35															
79	IC-4	BROAD ST	562+75, 50' LT	566+00, 42' LT					330	325							330							
79	TC-1	BROAD ST	562+79, 71' LT															10	1	1	1			
BROAD ST. BETWEEN STA. 566+00 AND 575+00, INT 1022																								
80	IC-1	BROAD ST	566+00, 42' LT	570+75, 41' LT					482	475							482							
80	SE A-1	BROAD ST	570+75, 41' LT						150				1											
80	IC-3	BROAD ST	570+75, 41' LT	570+75, 41' LT											1									
80	TC-1	BROAD ST	570+75, 41' LT																3	1	1			
80	IC-2	BROAD ST	570+75, 41' LT	575+00, 34' LT					431	425							431							
BROAD ST. BETWEEN STA. 575+00 AND 581+00, INT 1010																								
81	IC-1	BROAD ST	575+00, 34' LT	579+31, 41' LT					439	432							439							
81	TC-1	BROAD ST	578+59, 39' RT																4	1		1		
81	IC-9	BROAD ST	578+59, 39' RT	578+68, 38' RT	9						9													
81	IC-8	BROAD ST	578+59, 39' RT	579+31, 41' LT												2								
81	IC-7	BROAD ST	578+68, 38' RT	578+86, 40' LT						80							81							
81	IC-5	BROAD ST	579+30, 148' LT	579+31, 41' LT					109	107							109							
81	SE A-1	BROAD ST	579+31, 41' LT						300					1										
81	IC-2	BROAD ST	579+31, 41' LT	579+40, 40' LT					9	9							9							
81	IC-6	BROAD ST	579+31, 41' LT	579+34, 102' RT					145	143							145							
81	IC-3	BROAD ST	579+40, 40' LT						35															
81	IC-4	BROAD ST	579+40, 40' LT	581+00, 33' LT	163				163		163													
SHEET TOTAL					3650	43	43	1	6821	1996	3643	3	1	1	4	2	2164	245	14	6	2	4	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

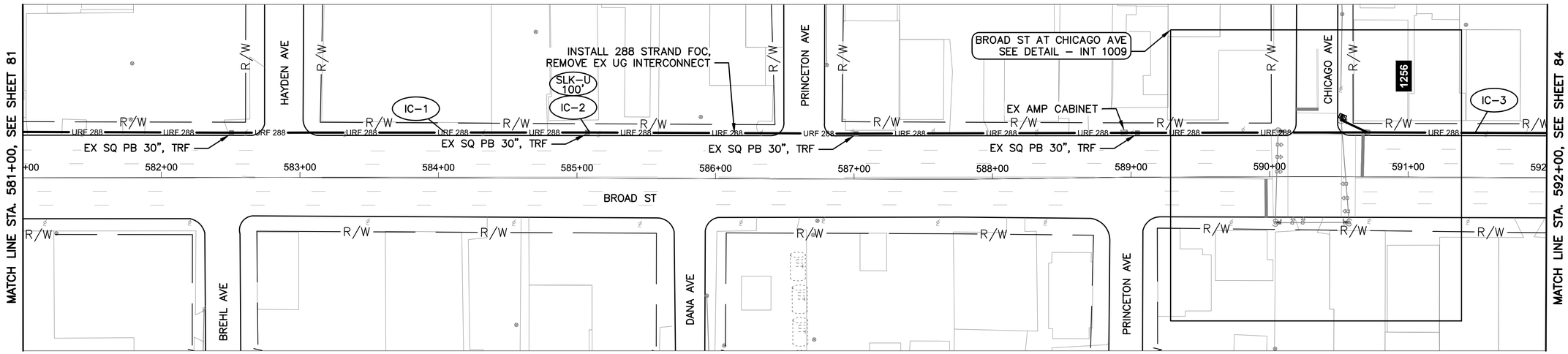
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PID NUMBER: 14522

BROAD ST BTW STA. 528+50 AND 581+00
INTS 1039, 1038, 1012, 1011, 1022, 1010

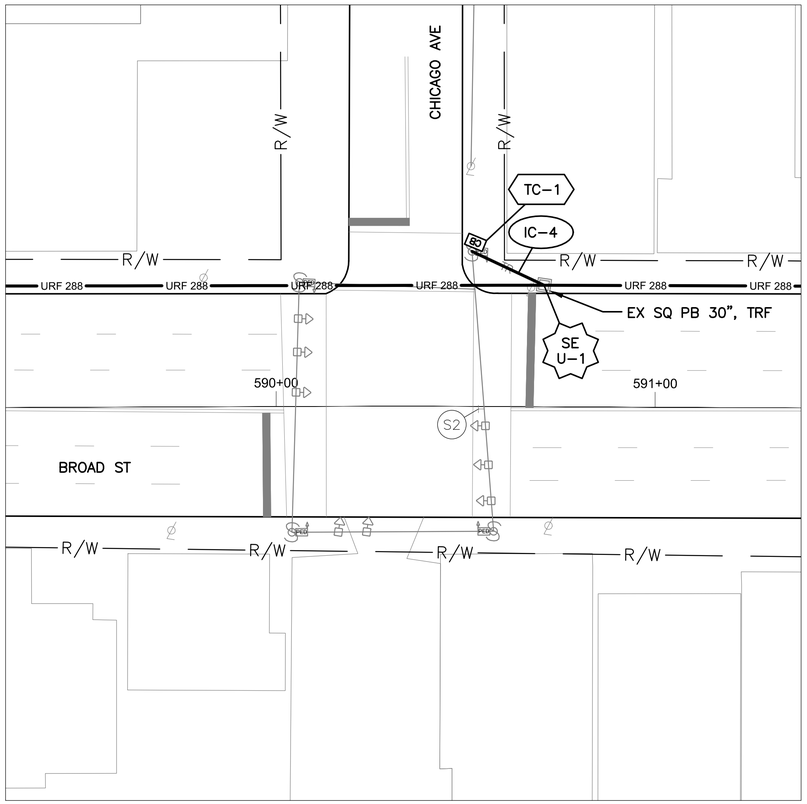
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

2953-E

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BROAD ST BETWEEN STATION 581+00 AND 592+00



DETAIL - INT 1009

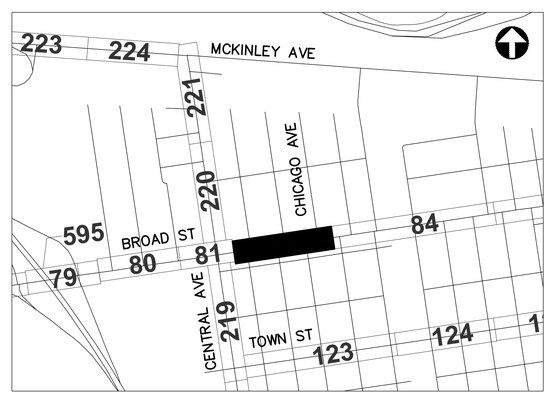
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 90 FOR QUANTITIES.
2. SEE SHEETS 605 & 664 FOR COMMUNICATION DETAILS.
3. IF 100' SLACK DOES NOT FIT WITHIN EXISTING 30" X 30" PULL BOX, DISTRIBUTE THE REMAINING SLACK TO ADJACENT PULL BOXES.

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TWO WORKING DAYS BEFORE YOU DIG
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

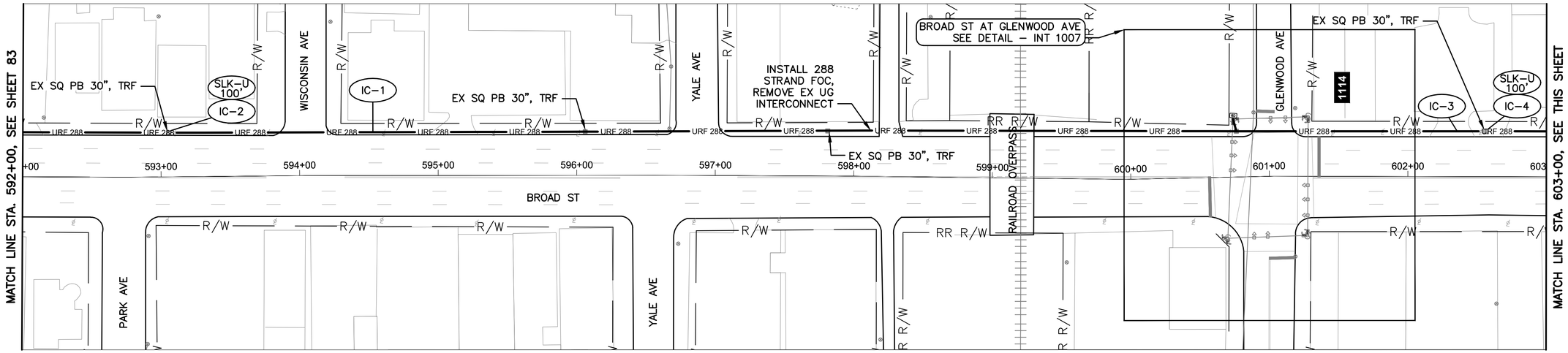
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INTERCONNECT PLAN
BROAD ST BETWEEN STA. 581+00 AND 592+00, INT 1009

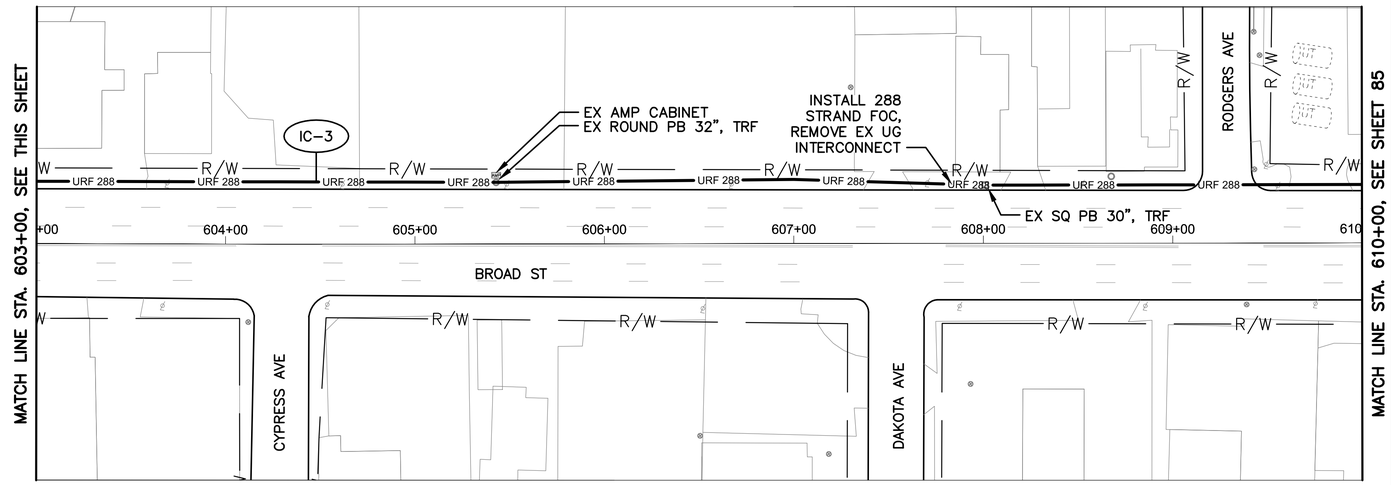
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

83
911

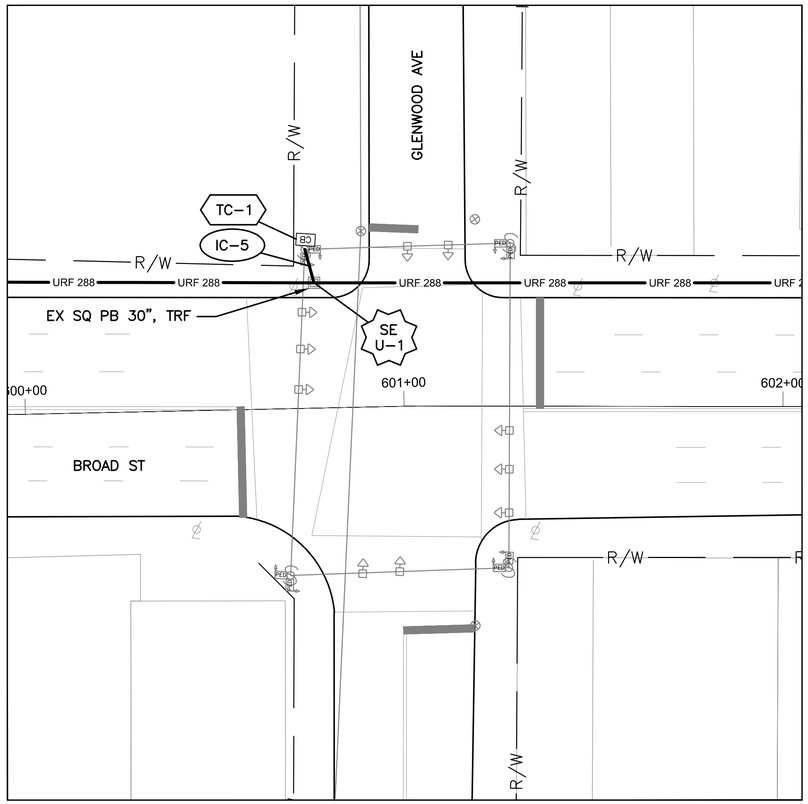
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BROAD ST BETWEEN STATION 592+00 AND 603+00



BROAD ST BETWEEN STATION 603+00 AND 610+00

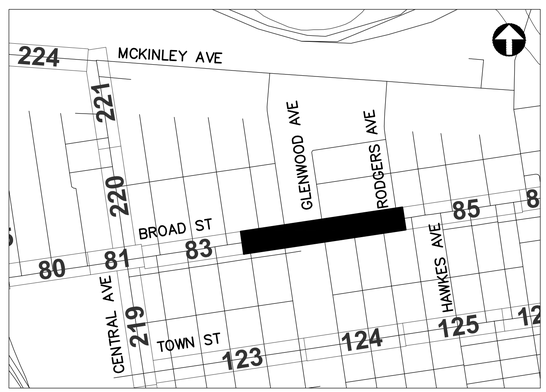


DETAIL - INT 1007

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 90 FOR QUANTITIES.
2. SEE SHEETS 605 & 665 FOR COMMUNICATION DETAILS.
3. IF 100' SLACK DOES NOT FIT WITHIN EXISTING 30" X 30" PULL BOX, DISTRIBUTE THE REMAINING SLACK TO ADJACENT PULL BOXES.



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

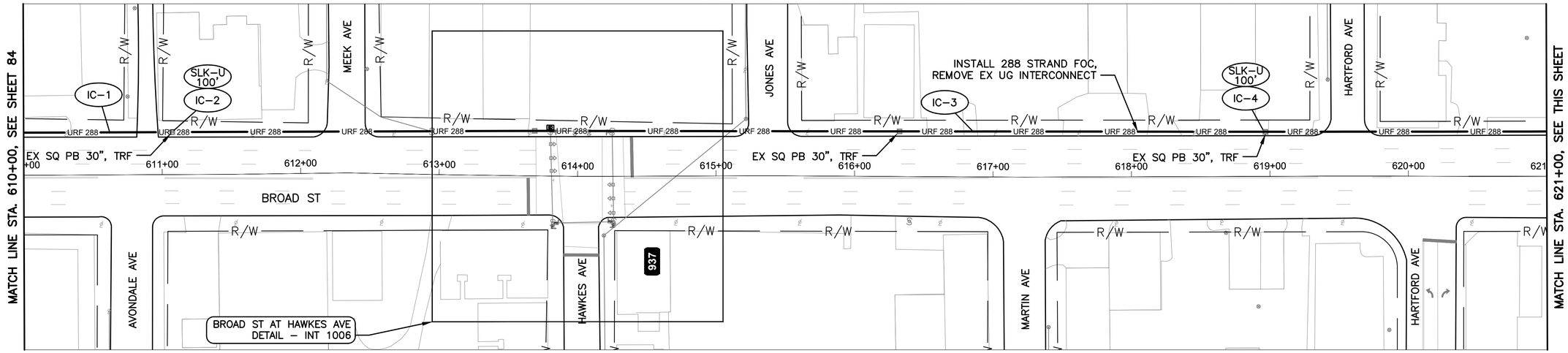
INTERCONNECT PLAN
BROAD ST BETWEEN STA. 592+00 AND 610+00, INT 1007

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

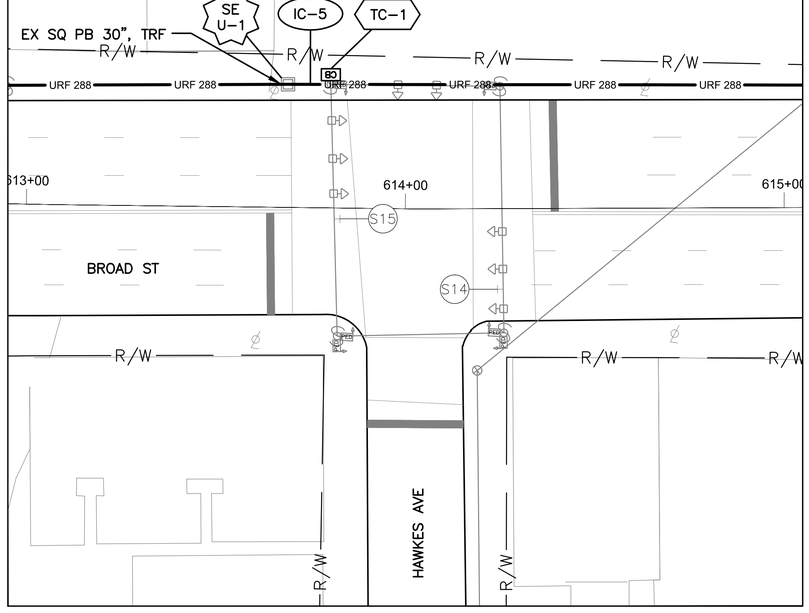
84
911

2953-E

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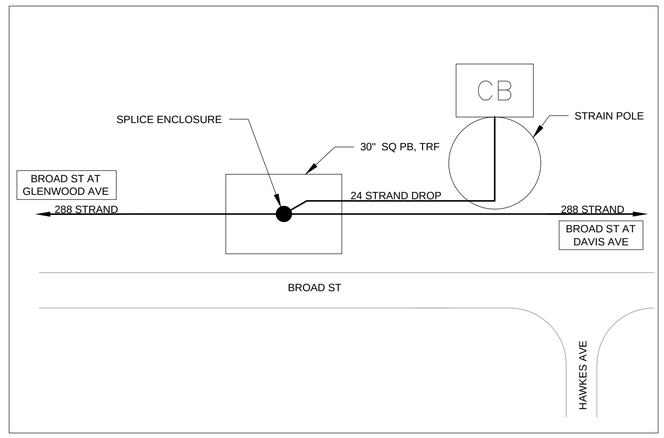
BROAD ST BETWEEN STATION 610+00 AND 621+00



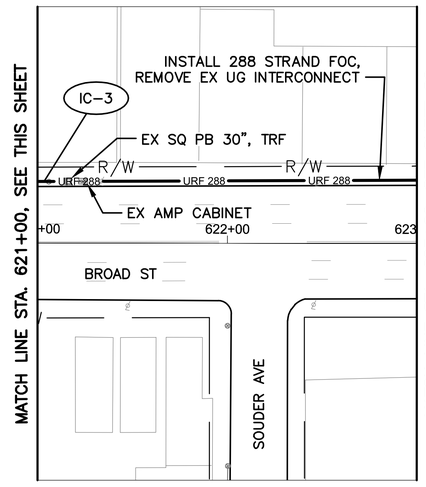
DETAIL - INT 1006

0 20 40

HORIZONTAL SCALE IN FEET



CABLE SCHEMATIC
NOT TO SCALE



BROAD ST BETWEEN STATION 621+00 AND 623+00

NOTES:

1. SEE SHEET 90 FOR QUANTITIES.
2. SEE SHEETS 605 & 666 FOR COMMUNICATION DETAILS.
3. IF 100' SLACK DOES NOT FIT WITHIN EXISTING 30" X 30" PULL BOX, DISTRIBUTE THE REMAINING SLACK TO ADJACENT PULL BOXES.

UNDERGROUND UTILITIES
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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80

HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

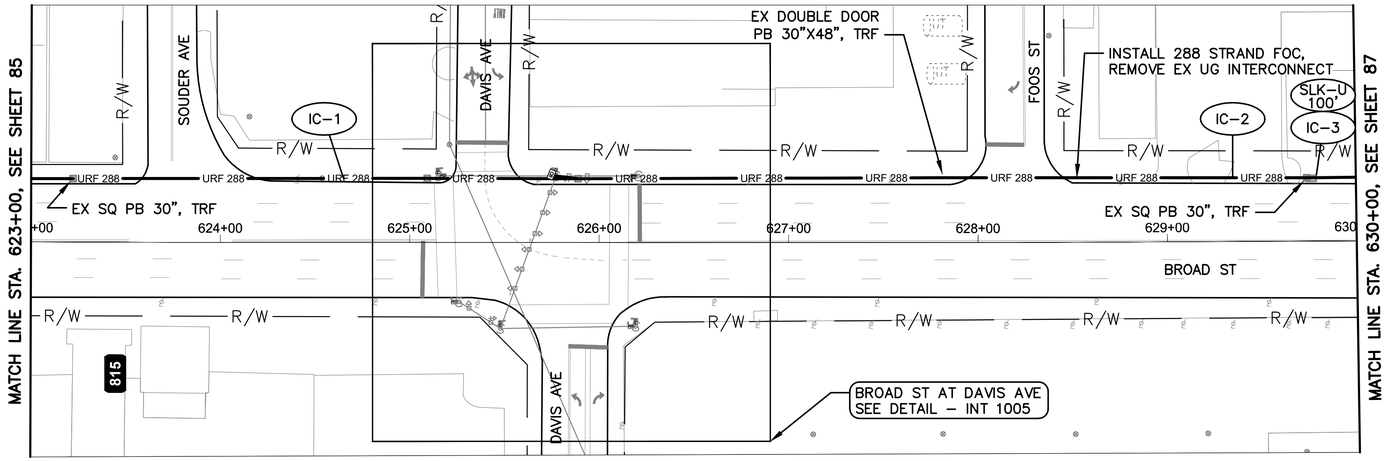
INTERCONNECT PLAN
BROAD ST BETWEEN STA. 610+00 AND 623+00, INT 1006

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

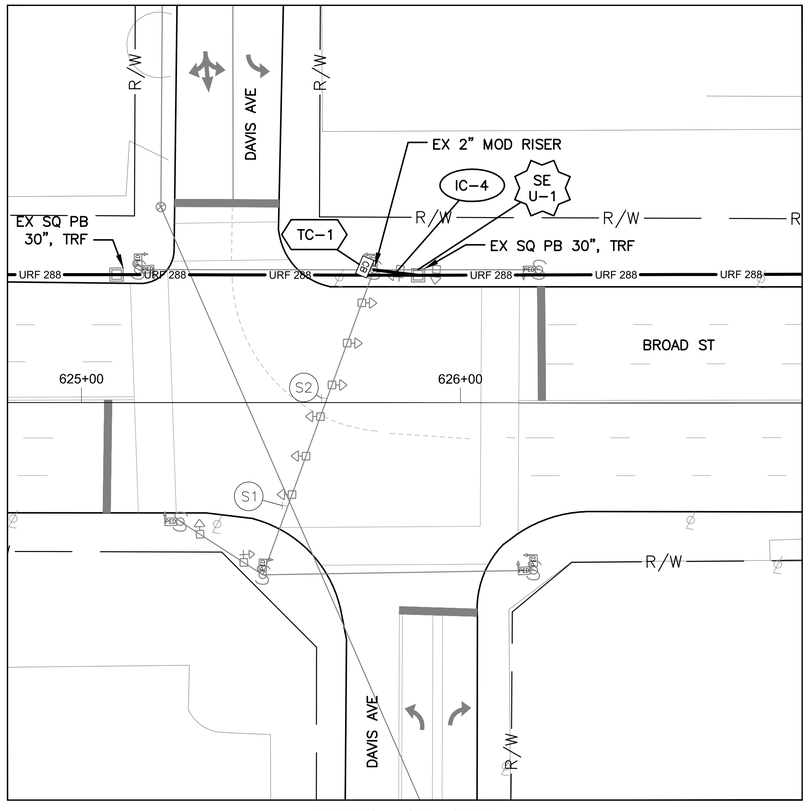
85
911

2953-E

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BROAD ST BETWEEN STATION 623+00 AND 630+00



DETAIL - INT 1005

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 90 FOR QUANTITIES.
2. SEE SHEETS 605 & 667 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

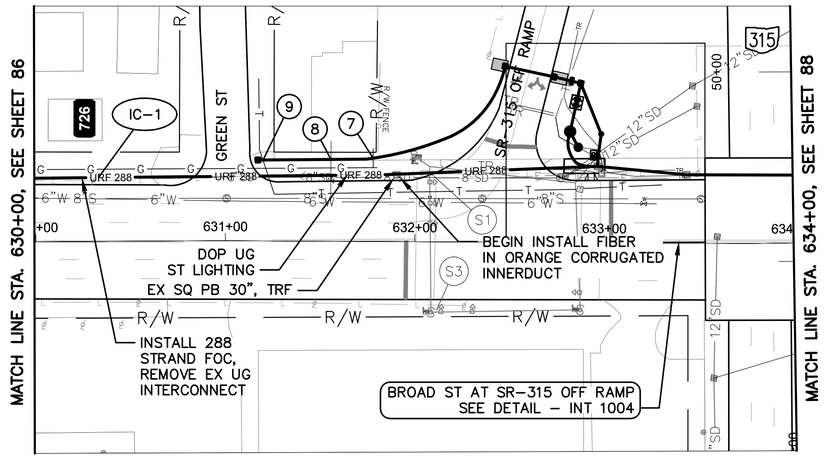
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PID NUMBER: 14522

INTERCONNECT PLAN
BROAD ST BETWEEN STA. 623+00 AND 630+00, INT 1005

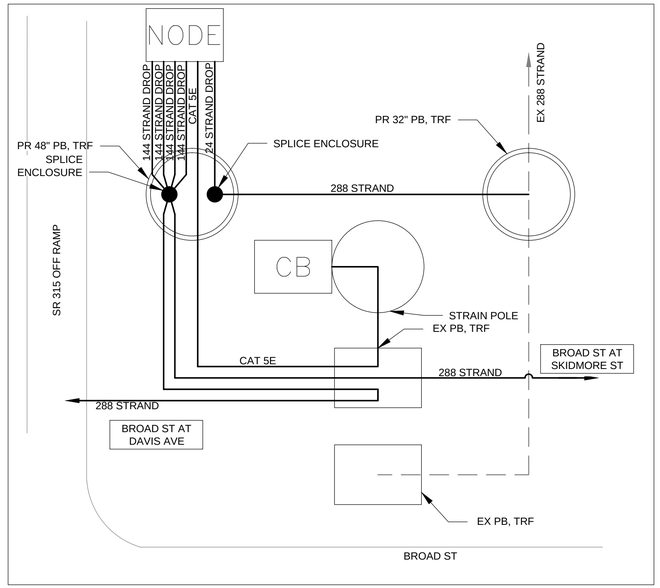
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

86
911

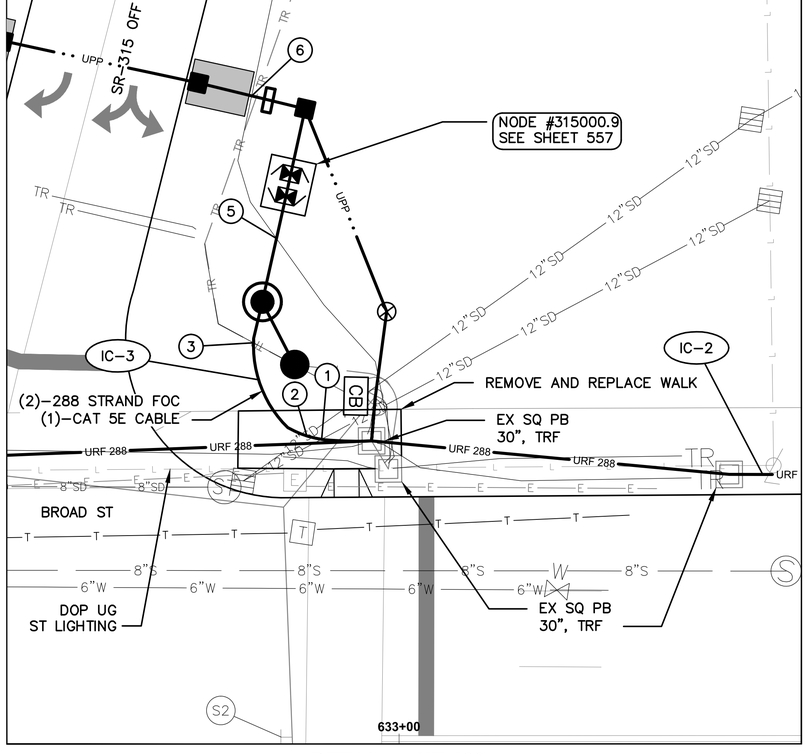
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BROAD ST BETWEEN STATION 630+00 AND 634+00



CABLE SCHEMATIC
NOT TO SCALE



DETAIL - INT 1004

0 10 20
HORIZONTAL
SCALE IN FEET

NOTES:

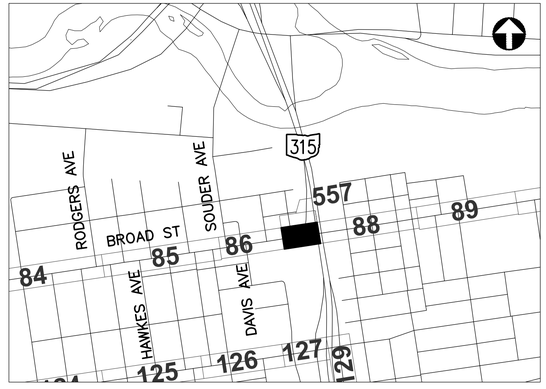
1. SEE SHEET 90 FOR QUANTITIES.
2. SEE SHEETS 605 & 668 FOR COMMUNICATION DETAILS.
3. SEE SHEET 557 FOR NODE QUANTITIES.
4. SEE SHEET 298 FOR POWER SERVICE DETAILS.
5. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 12.

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CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

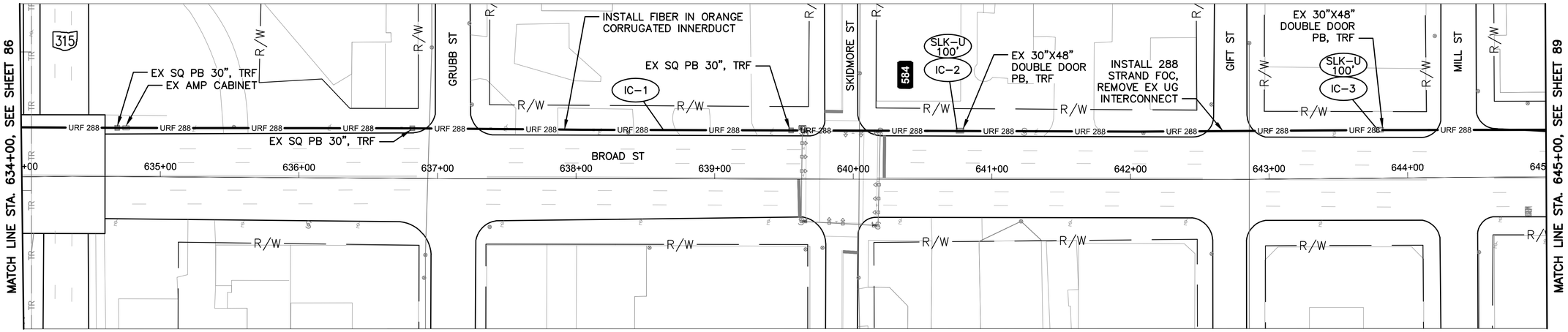
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PID NUMBER: 14522

INTERCONNECT PLAN
BROAD ST BETWEEN STA. 630+00 AND 634+00, INT 1004

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

87
911

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BROAD ST BETWEEN STATION 634+00 AND 645+00

NOTES:

1. SEE SHEET 90 FOR QUANTITIES.
2. SEE SHEET 605 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

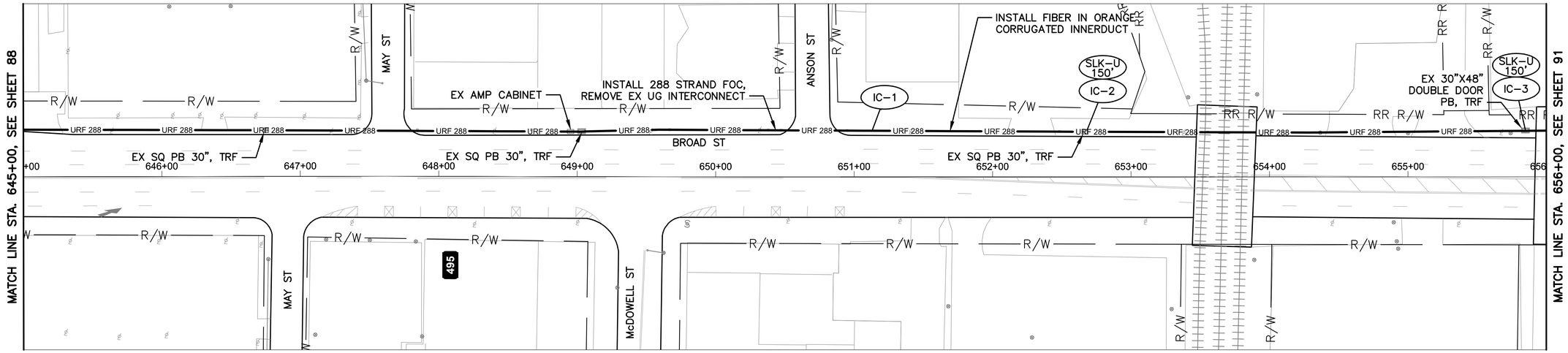
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PID NUMBER: 14522

INTERCONNECT PLAN
BROAD ST BETWEEN STA. 634+00 AND 645+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

88
911

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BROAD ST BETWEEN STATION 645+00 AND 656+00

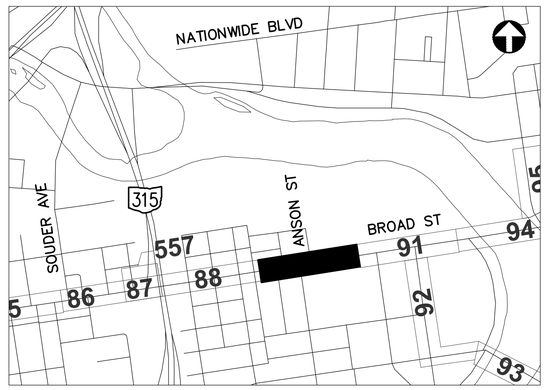
NOTES:

1. SEE SHEET 90 FOR QUANTITIES.
2. SEE SHEET 605 FOR COMMUNICATION DETAILS.
3. IF 100' SLACK DOES NOT FIT WITHIN EXISTING 30" X 30" PULL BOX, DISTRIBUTE THE REMAINING SLACK TO ADJACENT PULL BOXES.
4. FULL BUTT SPLICE POSSIBLE AT 655+85. ENGINEER TO DIRECT POTENTIAL CABLE END.

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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
BROAD ST BETWEEN STA. 645+00 AND 656+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

89
911

d:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_WBROAD_C_INTERCONNECT.dwg - W BROAD 23 layout - last saved by: sdlowry 05/08/2017 11:40am - printed 05/08/2017 08:01pm

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	632	632	632	632	633	633	633	633									
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, 3", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 144 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN							
			FROM	TO	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH								
BROAD ST. BETWEEN STA. 581+00 AND 592+00, INT 1009																								
83	IC-1	BROAD ST	581+00, 33' LT	590+70, 32' LT	971			971	971															
83	IC-2	BROAD ST	585+07, 33' LT					100																
83	TC-1	BROAD ST	590+51, 41' LT									2	1		1									
83	IC-4	BROAD ST	590+51, 41' LT	590+70, 32' LT	21				21		1													
83	SE U-1	BROAD ST	590+70, 32' LT					150		1														
83	IC-3	BROAD ST	590+70, 32' LT	592+00, 32' LT	129			129	129															
BROAD ST. BETWEEN STA. 592+00 AND 610+00, INT 1007																								
84	IC-1	BROAD ST	592+00, 32' LT	600+76, 33' LT	876			876	876															
84	IC-2	BROAD ST	593+05, 32' LT					100																
84	TC-1	BROAD ST	600+74, 42' LT									2	1	1										
84	IC-5	BROAD ST	600+74, 42' LT	600+76, 33' LT	9				9		1													
84	SE U-1	BROAD ST	600+76, 33' LT					150		1														
84	IC-3	BROAD ST	600+76, 33' LT	610+00, 31' LT	924			924	924															
84	IC-4	BROAD ST	602+56, 33' LT					100																
BROAD ST. BETWEEN STA. 610+00 AND 623+00, INT 1006																								
85	IC-1	BROAD ST	610+00, 31' LT	613+68, 32' LT	369			369	369															
85	IC-2	BROAD ST	611+07, 31' LT					100																
85	SE U-1	BROAD ST	613+68, 32' LT					150		1														
85	IC-5	BROAD ST	613+68, 32' LT	613+79, 33' LT	11				11		1													
85	IC-3	BROAD ST	613+68, 32' LT	623+00, 33' LT	931			931	931															
85	TC-1	BROAD ST	613+79, 33' LT									2	1		1									
85	IC-4	BROAD ST	613+96, 32' LT					100																
BROAD ST. BETWEEN STA. 623+00 AND 630+00, INT 1005																								
86	IC-1	BROAD ST	623+00, 33' LT	625+88, 34' LT	289			289	289															
86	TC-1	BROAD ST	625+77, 35' LT									2	1	1										
86	IC-4	BROAD ST	625+77, 35' LT	625+88, 34' LT	12				12		1													
86	SE U-1	BROAD ST	625+88, 34' LT					150		1														
86	IC-2	BROAD ST	625+88, 34' LT	630+00, 34' LT	410			410	410															
86	IC-3	BROAD ST	627+78, 34' LT					100																
BROAD ST. BETWEEN STA. 630+00 AND 634+00, INT 1004																								
87	IC-1	BROAD ST	630+00, 34' LT	632+96, 40' LT	297			297	297															
87	IC-2	BROAD ST	632+81, 59' LT	632+96, 40' LT		29	29	58																
87	IC-3	BROAD ST	632+96, 40' LT	634+00, 36' LT	103			103	103															
BROAD ST. BETWEEN STA. 634+00 AND 645+00																								
88	IC-1	BROAD ST	634+00, 36' LT	645+00, 34' LT	1100			1100	1100															
88	IC-2	BROAD ST	640+77, 34' LT					100																
88	IC-3	BROAD ST	643+80, 35' LT					100																
BROAD ST. BETWEEN STA. 645+00 AND 656+00																								
89	IC-1	BROAD ST	645+00, 34' LT	656+00, 33' LT	1100			1100	1100															
89	IC-2	BROAD ST	652+67, 33' LT					100																
89	IC-3	BROAD ST	655+85, 33' LT					100																
SHEET TOTAL					7552	29	29	9157	7552	4	4	8	4	2	2	-	-	-	-	-	-	-	-	-

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

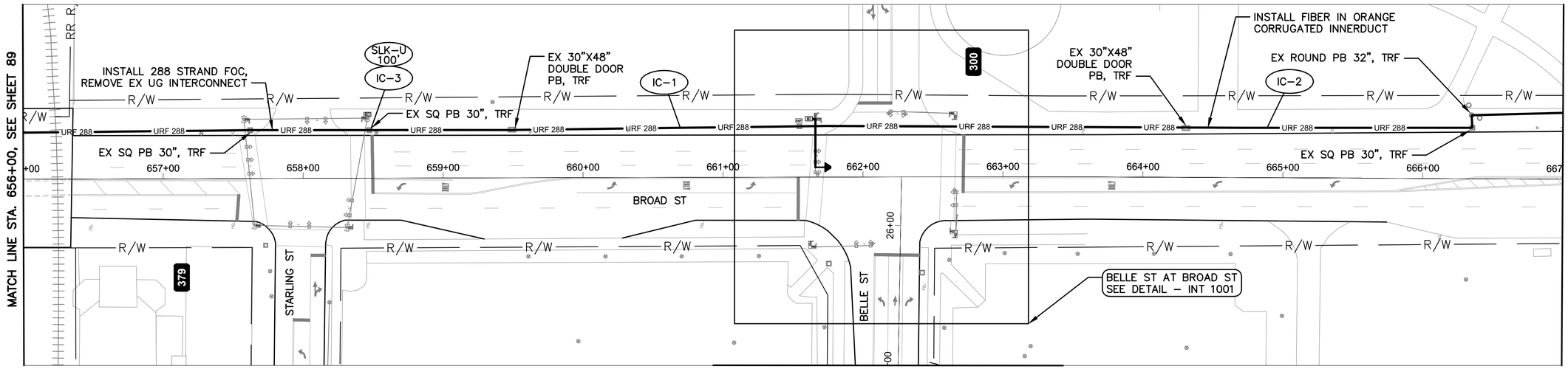
2953-E

CIP: 540007–100005
PID NUMBER: 14522

BROAD ST BTW STA. 581+00 AND 656+00
INTS 1009, 1007, 1006, 1005, 1004

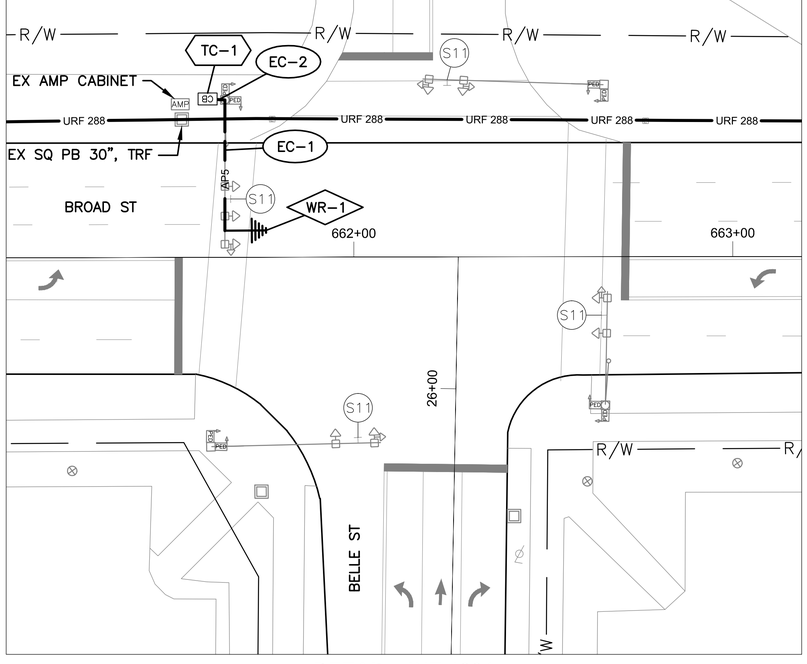
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

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MATCH LINE STA. 25+00, SEE SHEET 92

BROAD ST BETWEEN STATION 656+00 AND 667+00



DETAIL - INT 1001

0 20 40

HORIZONTAL SCALE IN FEET

INT 1001 WITH PROPOSED SIGNAL CONTROLLER

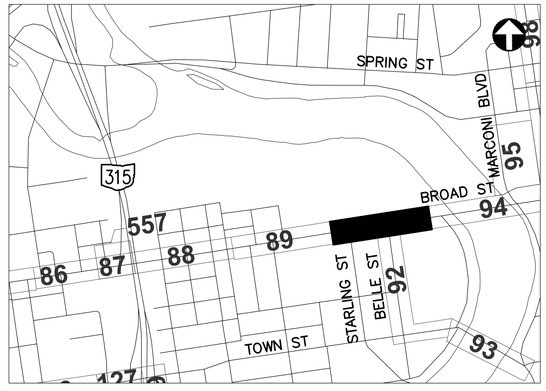
PROPOSED WIRELESS SEE SHEET 94 INT 0039 – BROAD ST AT CIVIC CENTER DR & MARCONI BLVD

NOTES:

1. SEE SHEET 96 FOR QUANTITIES.
2. SEE SHEETS 605 & 669 FOR COMMUNICATION DETAILS.
3. IF 100' SLACK DOES NOT FIT WITHIN EXISTING 30" X 30" PULL BOX, DISTRIBUTE THE REMAINING SLACK IN ADJACENT PULL BOXES.
4. COORDINATE WITH SCIOTO GREENWAY PROJECT.
5. WIRELESS RADIO TO BE INSTALLED AT THE DISCRETION OF THE ENGINEER.
6. BELLE STREET FIBER INSTALLATION TO BE COORDINATED WITH PROJECT 3148-E.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80

HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

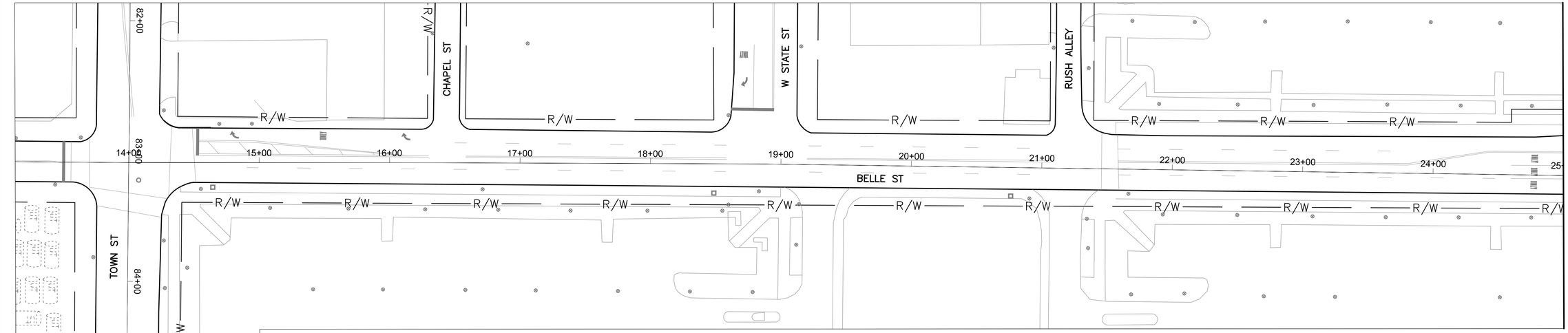
INTERCONNECT PLAN
BROAD ST BETWEEN STA. 656+00 AND 667+00, INT 1001

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

91
911

2953-E

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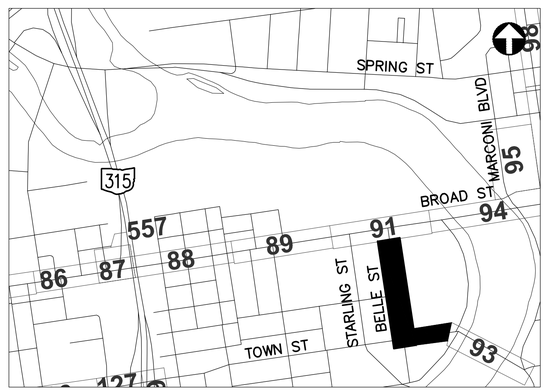
BELLE ST BETWEEN STATION 13+14 AND 25+00

NOTES:

1. SEE SHEET 96 FOR QUANTITIES.
2. SEE SHEET 605 FOR COMMUNICATION DETAILS.
3. COORDINATE CABLE INSTALLATION WITH PROJECT 3184–E.

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TWO WORKING DAYS BEFORE YOU DIG
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CITY OF COLUMBUS UTILITY LEGEND
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- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

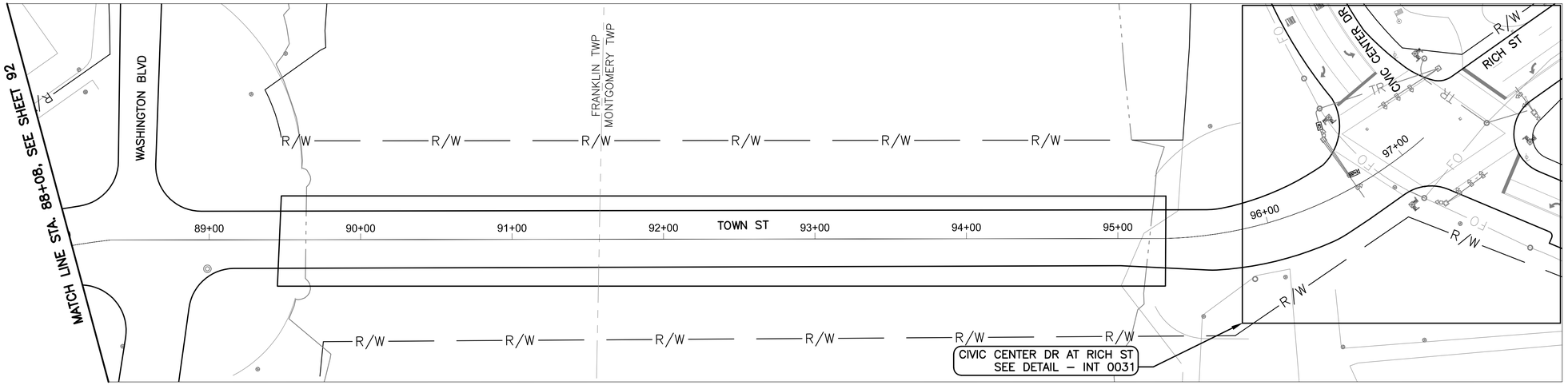
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PID NUMBER: 14522

INTERCONNECT PLAN
BELLE ST BTW STA. 13+14 AND 25+00
25+00 & TOWN ST BTW 81+86 AND 88+08

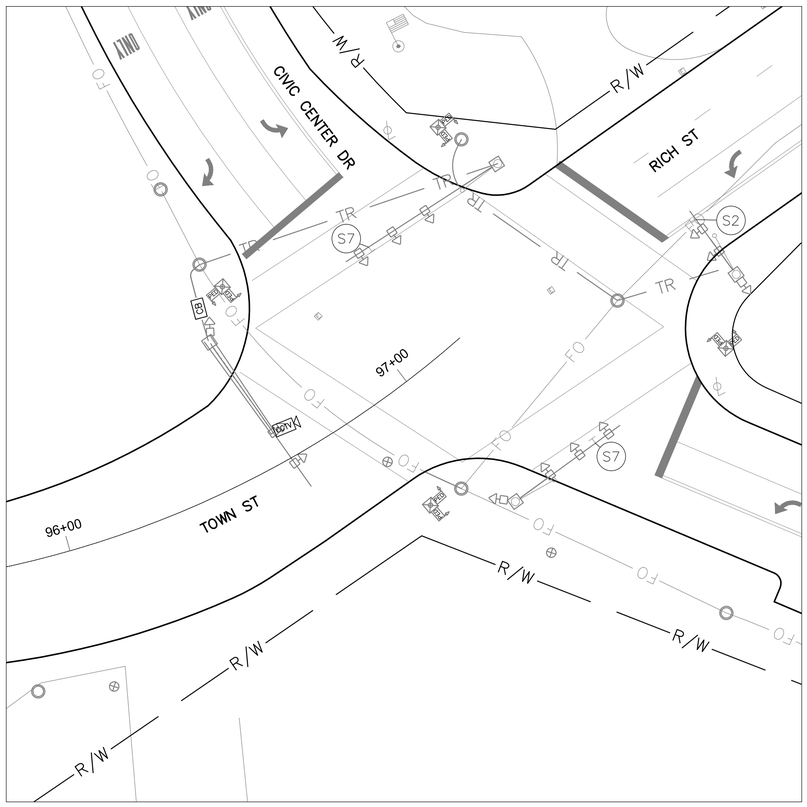
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

2953-E

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TOWN ST BETWEEN STATION 88+08 AND 97+18



DETAIL - INT 0031

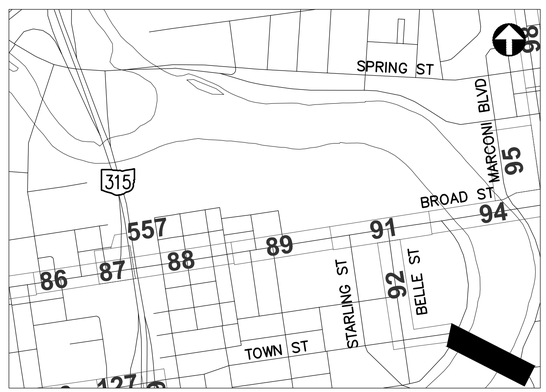
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 96 FOR QUANTITIES.
2. SEE SHEETS 605 & 670 FOR COMMUNICATION DETAILS.
3. COORDINATE CABLE INSTALLATION WITH PROJECT 3184–E.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

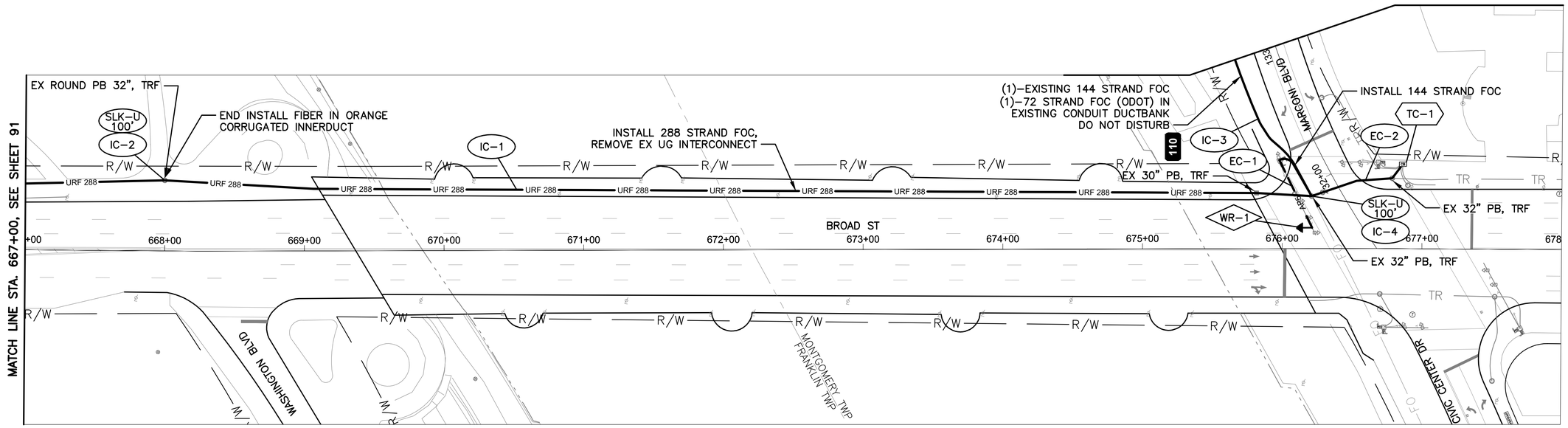
INTERCONNECT PLAN
TOWN ST BETWEEN STA. 88+08 AND 97+18, INT 0031

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

93
911

2953-E

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BROAD ST BETWEEN STATION 667+00 AND 678+00

PROPOSED WIRELESS
SEE SHEET 91
INT 1001 – BROAD ST
AT BELLE ST

INT 0039 WITH PROPOSED SIGNAL CONTROLLER

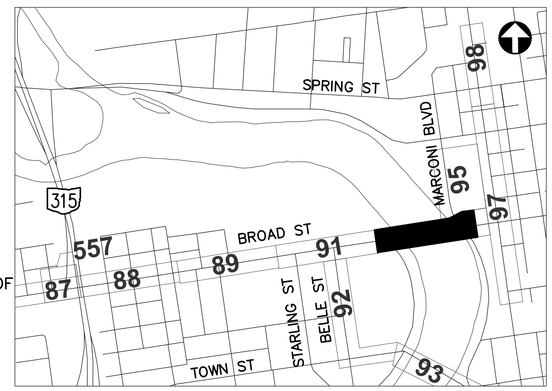
NOTES:

1. SEE SHEET 96 FOR QUANTITIES.
2. SEE SHEET 605 FOR COMMUNICATION DETAILS.
3. COORDINATE WITH SCIOTO GREENWAY PROJECT.
4. WIRELESS RADIO TO BE INSTALLED AT THE DISCRETION OF THE ENGINEER.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

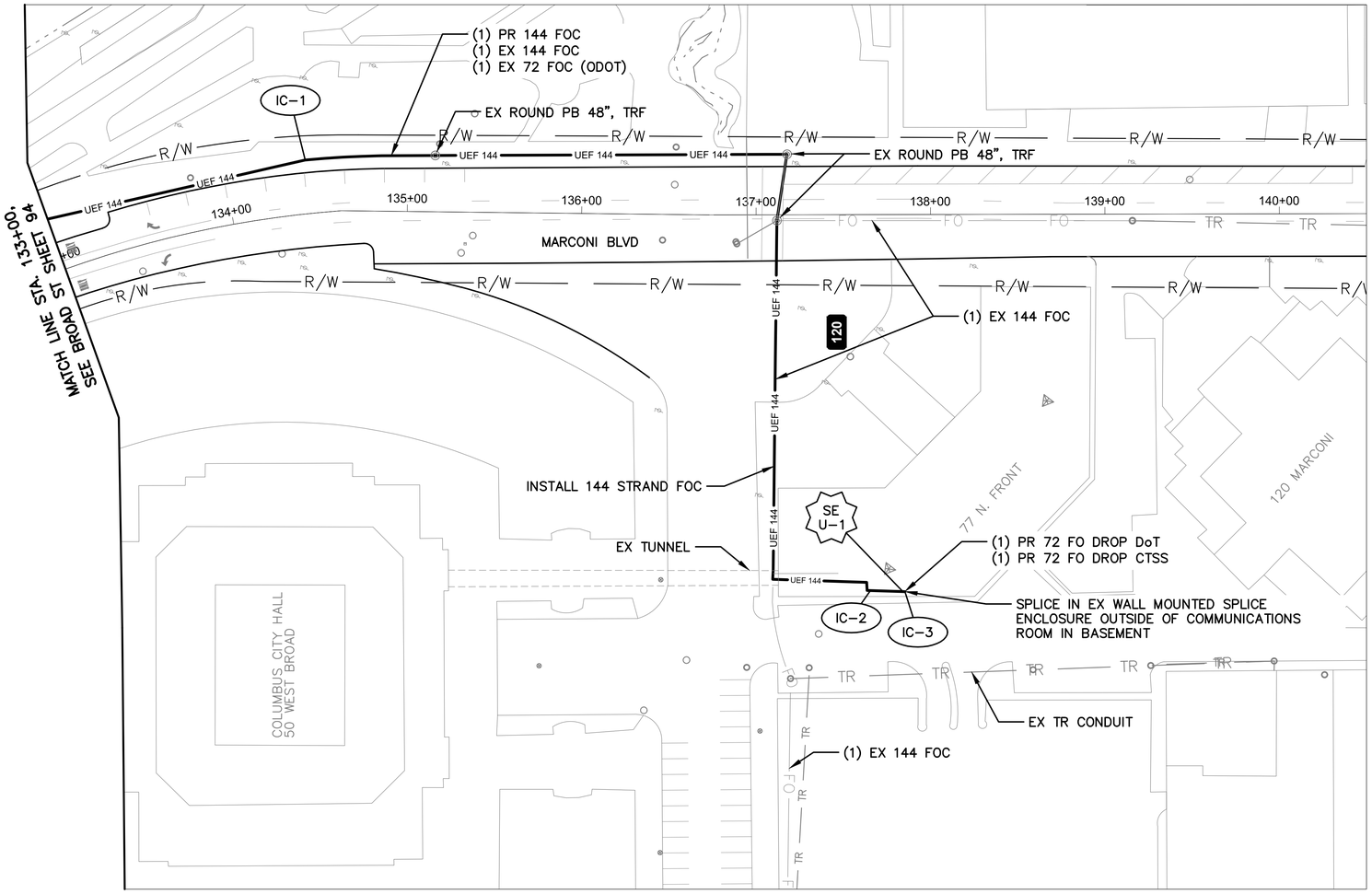
INTERCONNECT PLAN
BROAD ST BETWEEN STA. 667+00 AND 678+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

94
911

2953-E

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MARCONI BLVD BETWEEN STATION 133+00 AND 140+50

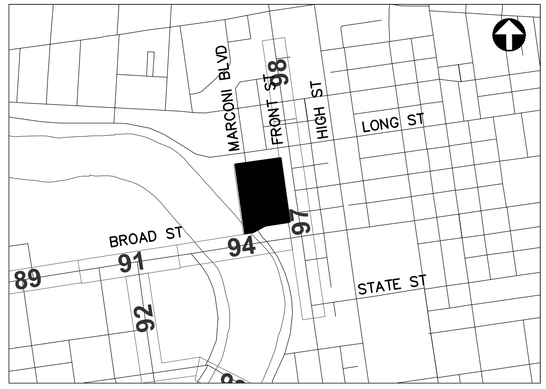
NOTES:

1. SEE SHEET 96 FOR QUANTITIES.
2. SEE SHEET 605 FOR COMMUNICATION DETAILS.
3. CONTACT/SCHEDULE ONE WEEK AHEAD FOR ACCESS TO TUNNEL AND BUILDING.
4. NOTIFY ENGINEER TWO WEEKS PRIOR TO WORK IN TUNNEL.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
MARCONI BLVD BETWEEN STA. 133+00 AND 140+50

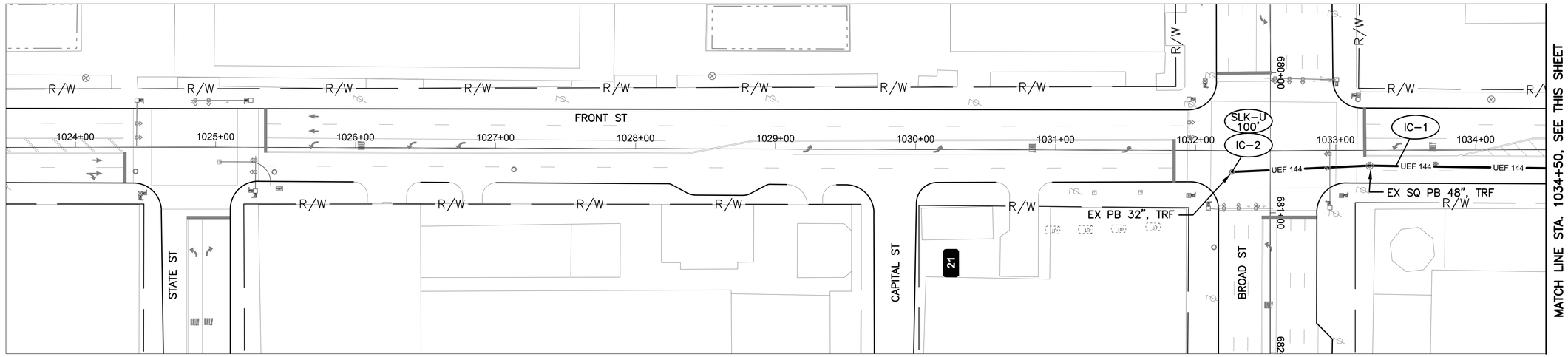
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

95
911

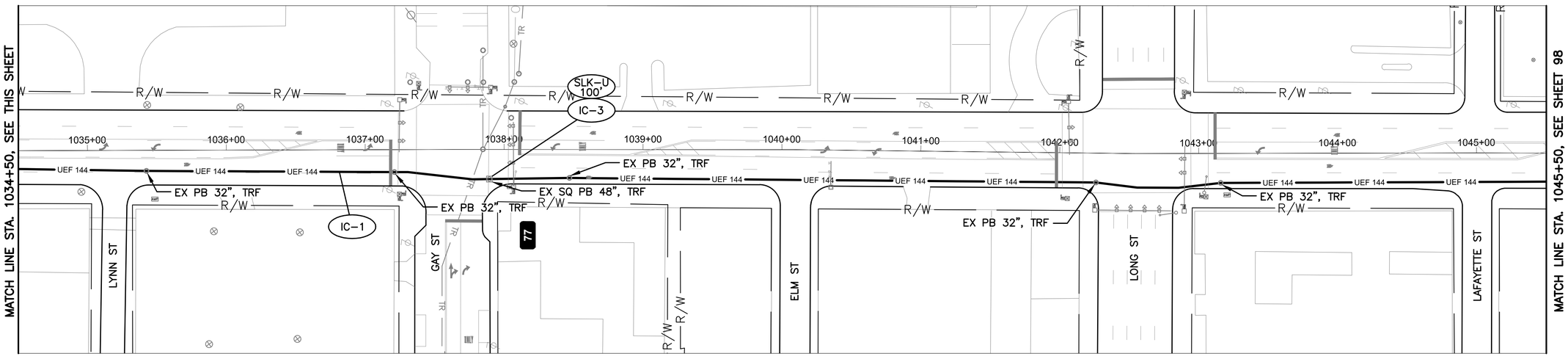
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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	202 EXISTING CONDUIT CLEANED, AS PER PLAN (FT)	625 PULL BOX, 32", AS PER PLAN (EACH)	625 PULL BOX, REMOVED, AS PER PLAN (EACH)	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND (FT)	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 72 STRAND, PRE-TERMINATED (FT)	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT (FT)	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER (EACH)	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 FIBER (EACH)	632 INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU (EACH)	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE (EACH)	632 SIGNALIZATION, MISC.: CAT 5E CABLE, OUTDOOR RATED (FT)	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE (EACH)	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH (EACH)	633 CONTROLLER ITEM, MISC.: SPREAD SPECTRUM RADIO (EACH)	633 CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER (EACH)					
BROAD ST. BETWEEN STA. 656+00 AND 667+00, INT 1001																									
91	IC-1	BROAD ST	656+00, 33' LT	661+54, 36' LT	555			555		555															
91	IC-3	BROAD ST	658+47, 34' LT					100																	
91	IC-7	BROAD ST	661+54, 36' LT	661+61, 42' LT	9																				
91	IC-2	BROAD ST	661+54, 36' LT	667+00, 47' LT	555			555		555															
91	IC-4	BROAD ST	661+54, 36' LT	661+75, 62' RT	100			200																	
91	TC-1	BROAD ST	661+61, 42' LT													10	2	1		1					
91	IC-6	BROAD ST	661+61, 42' LT	661+75, 62' RT										2											
91	EC-2	BROAD ST	661+61, 42' LT	661+66, 42' LT	5											5									
91	EC-1	BROAD ST	661+66, 42' LT	661+66, 7' LT												70									
91	WR-1	BROAD ST	661+66, 7' LT																1						
91	SE U-1	BROAD ST	661+75, 62' RT			1	1	225			1														
91	IC-5	BROAD ST	661+75, 62' RT	662+41, 135' RT	133			133																	
BELLE ST. BETWEEN STA. 13+14 AND 25+00																									
92	IC-1	BELLE ST	13+17, 482' RT	25+00, 17' RT	1603			1603																	
92	IC-2	BELLE ST	13+60, 332' RT					100																	
92	IC-3	BELLE ST	14+07, 13' RT					100																	
92	IC-4	BELLE ST	20+76, 22' RT					100																	
TOWN ST. BETWEEN STA. 88+08 AND 97+18, INT 0031																									
93	IC-1	TOWN ST	88+08, 32' LT	96+94, 31' RT	901			901																	
93	IC-2	TOWN ST	96+94, 31' RT					100																	
93	SE U-1	TOWN ST	96+94, 31' RT					75					1												
BROAD ST. BETWEEN STA. 667+00 AND 678+00																									
94	IC-1	BROAD ST	667+00, 47' LT	676+21, 38' LT	921			921		921															
94	IC-2	BROAD ST	667+99, 50' LT					100																	
94	IC-3	BROAD ST	675+66, 135' LT	676+21, 38' LT	113			113																	
94	EC-1	BROAD ST	675+98, 63' LT	676+22, 15' LT												87									
94	EC-2	BROAD ST	675+98, 63' LT	676+86, 60' LT	110											110									
94	IC-4	BROAD ST	676+21, 38' LT					100																	
94	WR-1	BROAD ST	676+22, 15' LT																1						
94	TC-1	BROAD ST	676+86, 60' LT													10	1								
MARCONI BLVD. BETWEEN STA. 133+00 AND 140+50, INT TMC																									
95	IC-1	MARCONI BLVD	133+00, 30' LT	137+09, 209' RT	672			672																	
95	SE U-1	MARCONI BLVD	137+09, 209' RT					75	75				2				2								
95	IC-2	MARCONI BLVD	137+09, 209' RT	137+71, 216' RT					67																
95	IC-3	MARCONI BLVD	137+09, 209' RT	137+84, 216' RT					80																



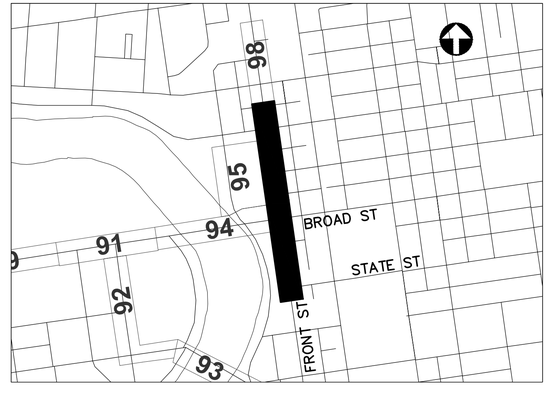
FRONT ST BETWEEN STATION 1023+50 AND 1034+50



FRONT ST BETWEEN STATION 1034+50 AND 1045+50

NOTES:

1. SEE SHEET 99 FOR QUANTITIES.
2. SEE SHEET 605 FOR COMMUNICATION DETAILS.



UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING

REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

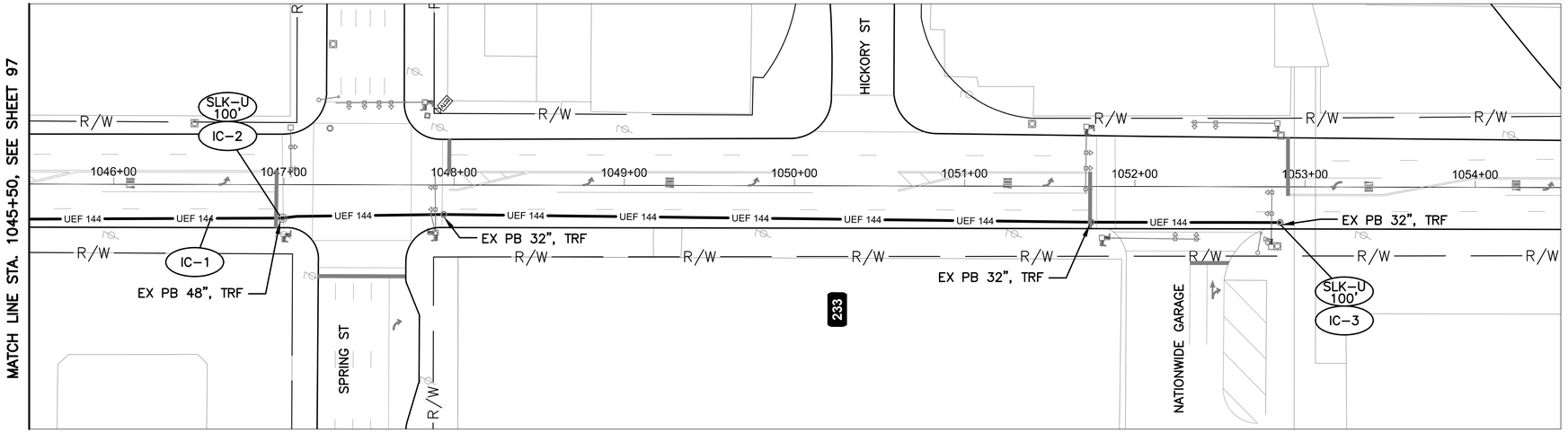
HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
FRONT ST BETWEEN STA. 1023+50 AND 1045+50

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

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FRONT ST BETWEEN STATION 1045+50 AND 1054+50

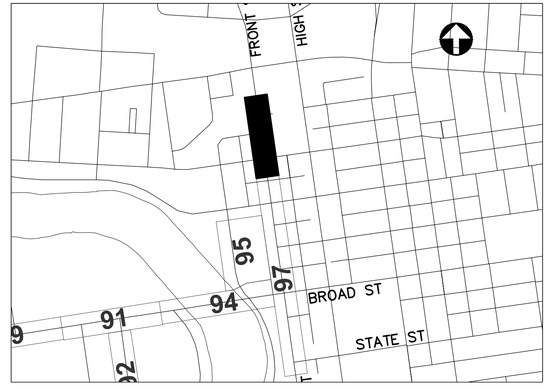
NOTES:

1. SEE SHEET 99 FOR QUANTITIES.
2. SEE SHEET 605 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
FRONT ST BETWEEN STATION 1045+50 AND 1054+50

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c – CONSTRUCTION AS–BUILT

98
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	202 EXISTING CONDUIT CLEANED, AS PER PLAN FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND FT
FRONT ST. BETWEEN STA. 1023+50 AND 1045+50						
97	IC-1	FRONT ST	1032+26, 15' RT	1045+50, 21' RT	1325	1325
97	IC-2	FRONT ST	1032+26, 15' RT			100
97	IC-3	FRONT ST	1037+89, 21' RT			100
FRONT ST. BETWEEN STA. 1045+50 AND 1054+50						
98	IC-1	FRONT ST	1045+50, 21' RT	1052+85, 21' RT	735	735
98	IC-2	FRONT ST	1046+99, 20' RT			100
98	IC-3	FRONT ST	1052+85, 21' RT			100
SHEET TOTAL					2060	2460

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

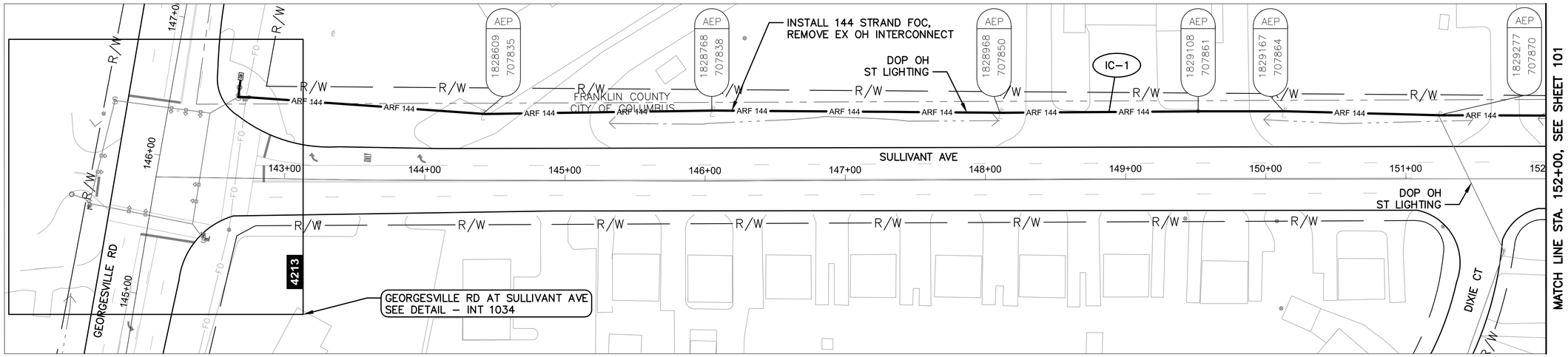
CIP: 540007–100005
PID NUMBER: 14522

FRONT ST. BTW STA. 1023+50 & 1054+50

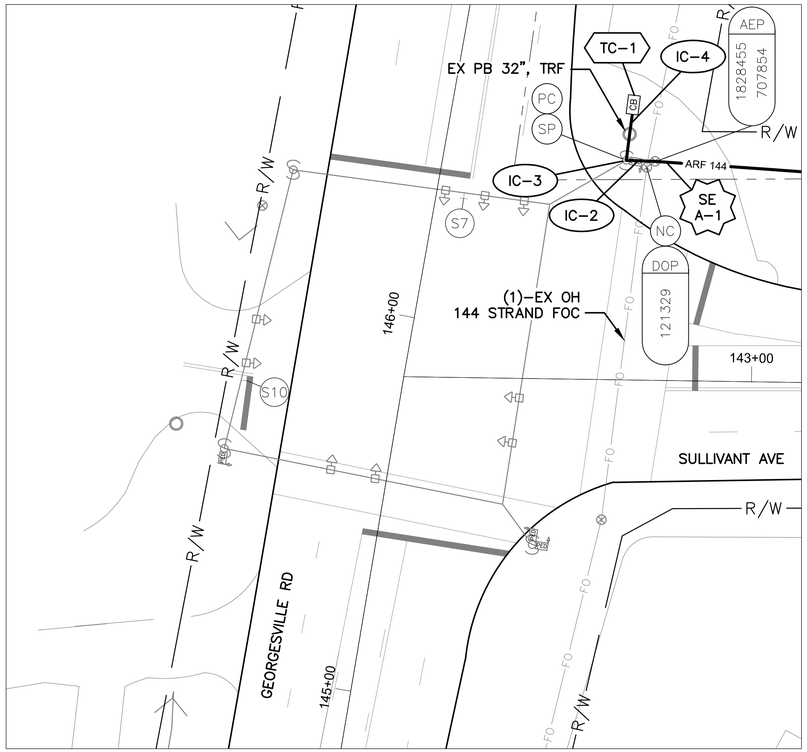
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

99
911

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_FRONT_B_INTERCONNECT_QUANTITIES.dwg – FRONT_3 layout ~ last saved by gburch 12/10/2014 03:44pm ~ printed 05/08/2017 08:06pm



SULLIVANT AVE BETWEEN STATION 142+08 AND 152+00



DETAIL - INT 1034

0 20 40
HORIZONTAL
SCALE IN FEET

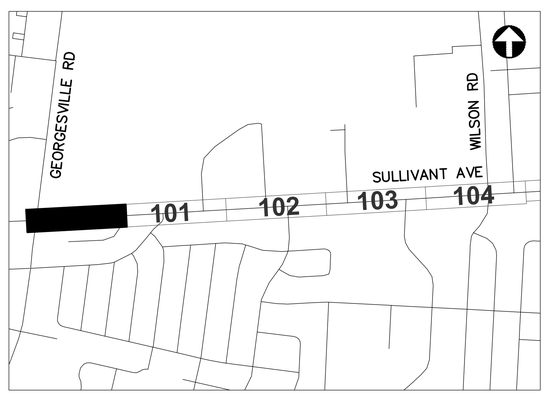
NOTES:

1. SEE SHEET 106 FOR QUANTITIES.
2. SEE SHEETS 602 & 697 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

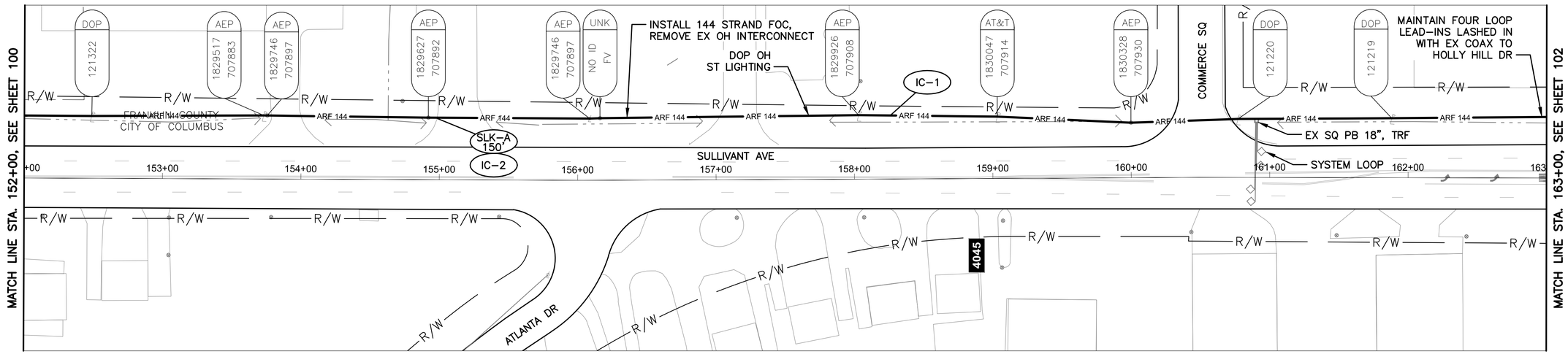
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
SULLIVANT AVE BETWEEN STA. 142+08 AND 152+00, INT 1034

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

100
911

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SULLIVANT AVE BETWEEN STATION 152+00 AND 163+00

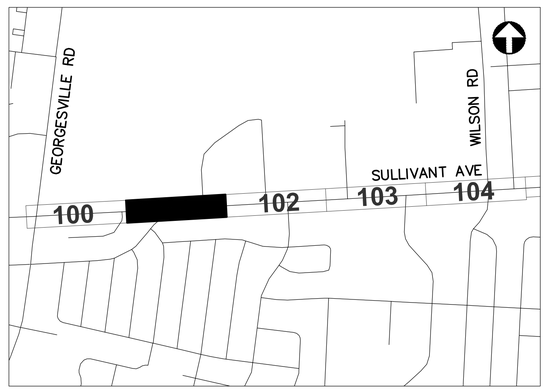
NOTES:

1. SEE SHEET 106 FOR QUANTITIES.
2. SEE SHEET 602 FOR COMMUNICATION DETAILS.
3. UNLASH LOOP LEAD IN AND LASH IN WITH FIBER.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

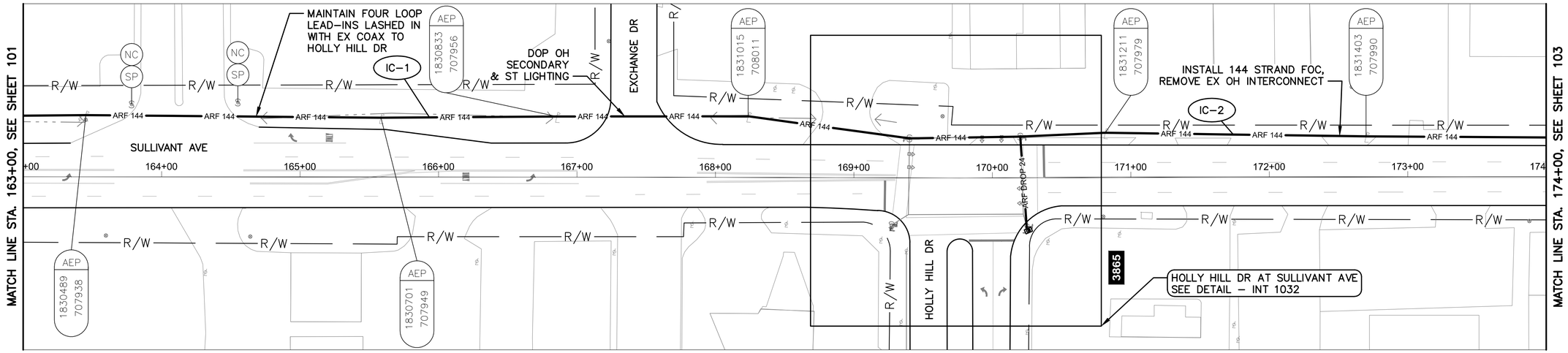
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
SULLIVANT AVE BETWEEN STA. 152+00 AND 163+00

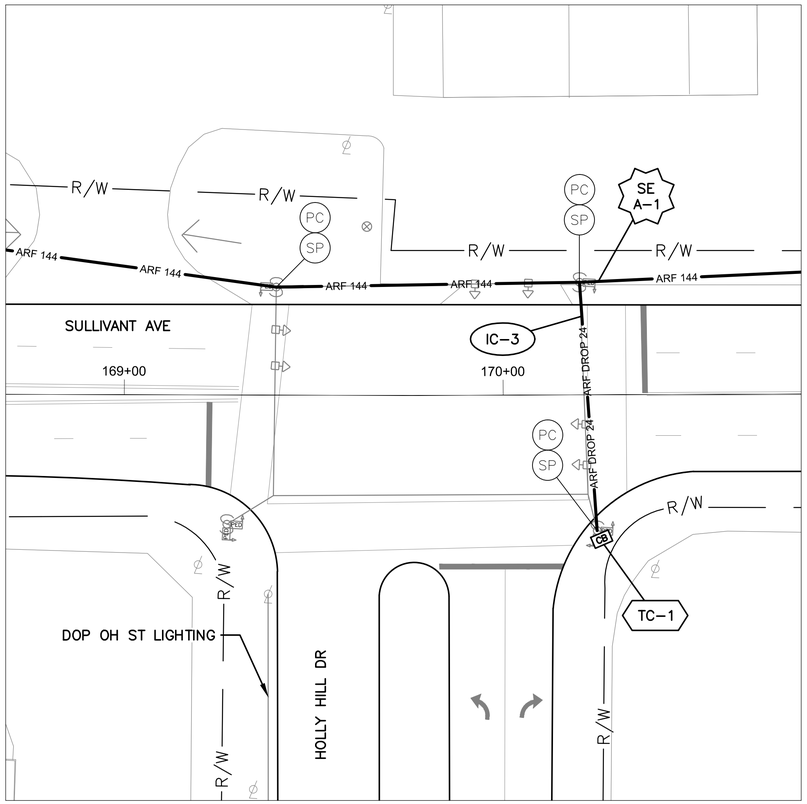
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

101
911

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SULLIVANT AVE BETWEEN STATION 163+00 AND 174+00



DETAIL - INT 1032

0 20 40

HORIZONTAL SCALE IN FEET

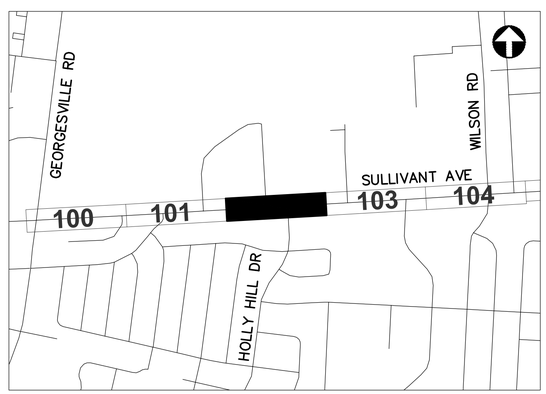
NOTES:

1. SEE SHEET 106 FOR QUANTITIES.
2. SEE SHEETS 602 & 698 FOR COMMUNICATION DETAILS.
3. UNLASH LOOP LEAD IN AND LASH IN WITH FIBER.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

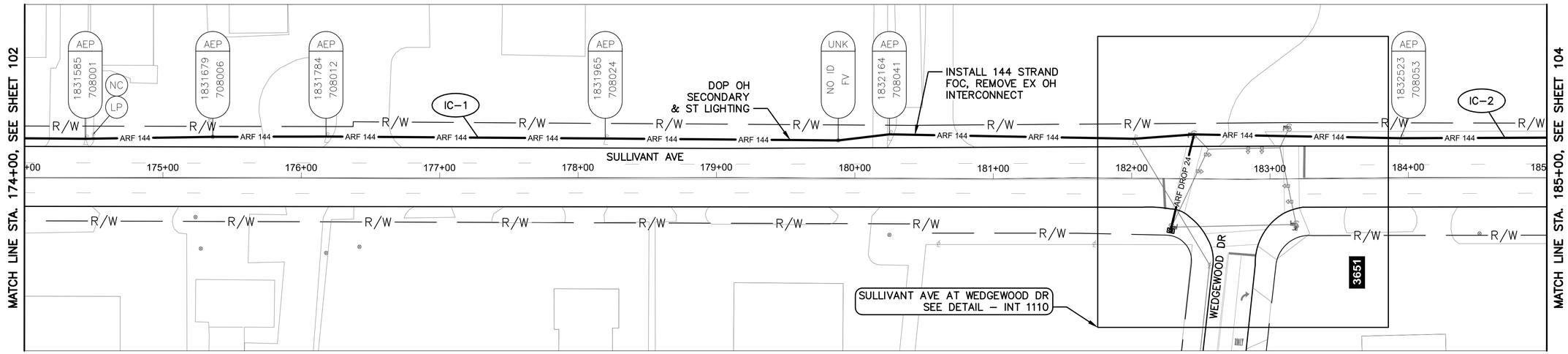
INTERCONNECT PLAN
SULLIVANT AVE BETWEEN STA. 163+00 AND 174+00, INT 1032

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

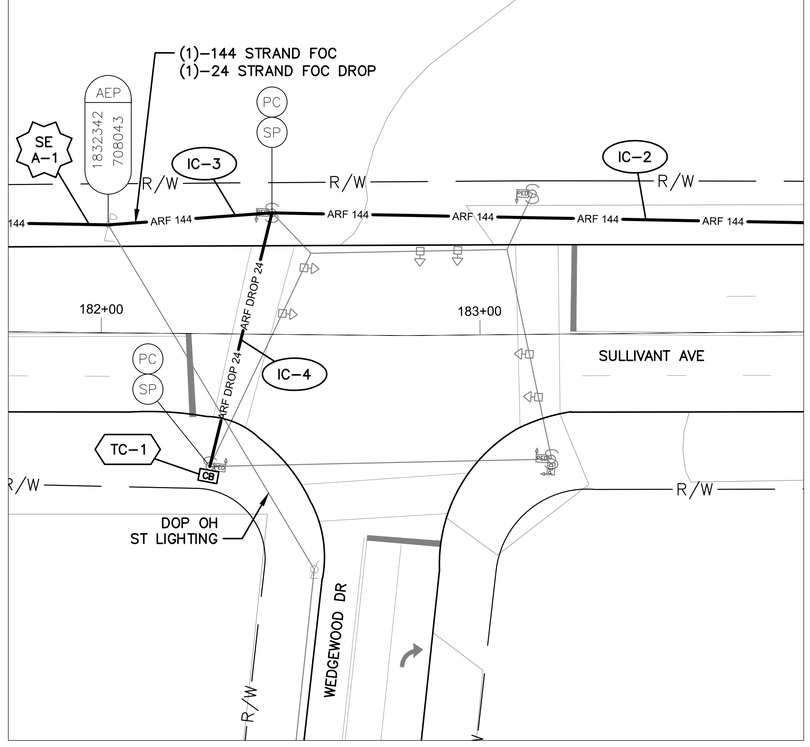
102
911

2953-E

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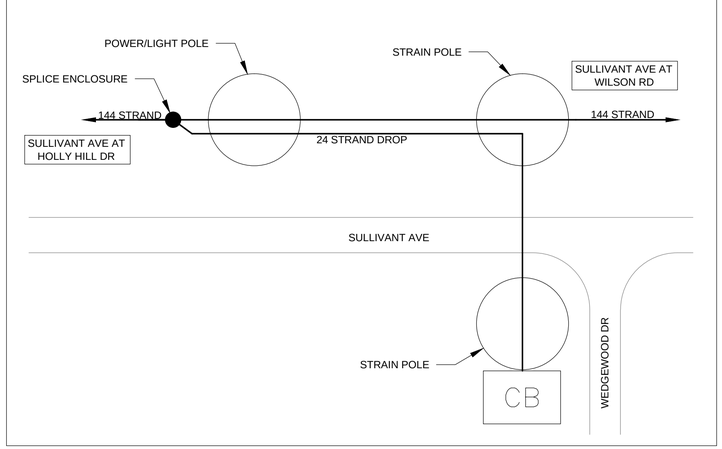
SULLIVANT AVE BETWEEN STATION 174+00 AND 185+00



DETAIL - INT 1110

0 20 40

HORIZONTAL SCALE IN FEET



CABLE SCHEMATIC
NOT TO SCALE

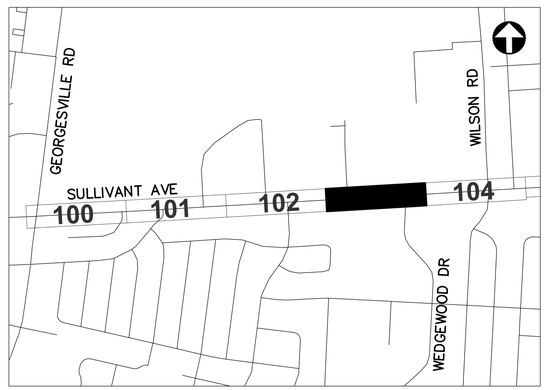
NOTES:

1. SEE SHEET 106 FOR QUANTITIES.
2. SEE SHEETS 602 & 699 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

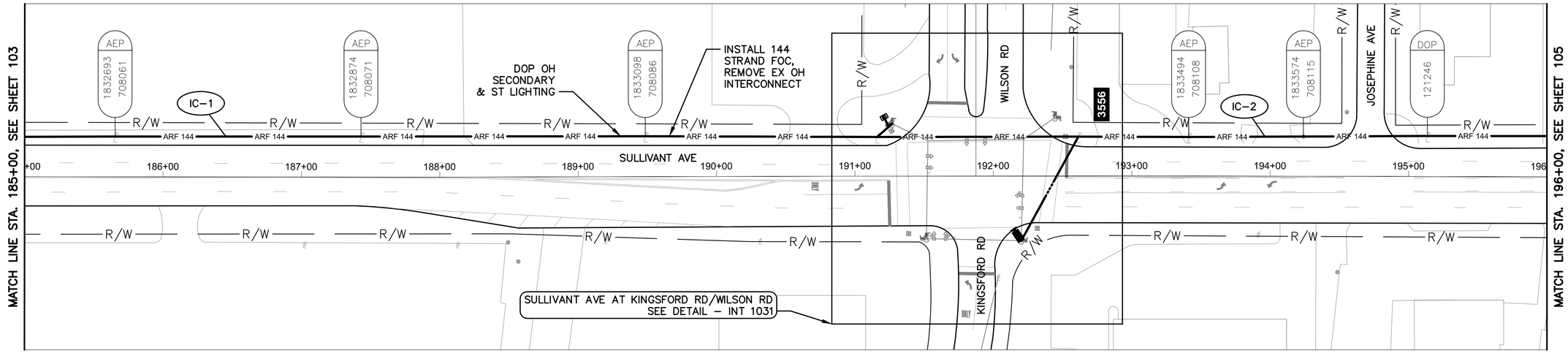
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
SULLIVANT AVE BETWEEN STA. 174+00 AND 185+00, INT 1110

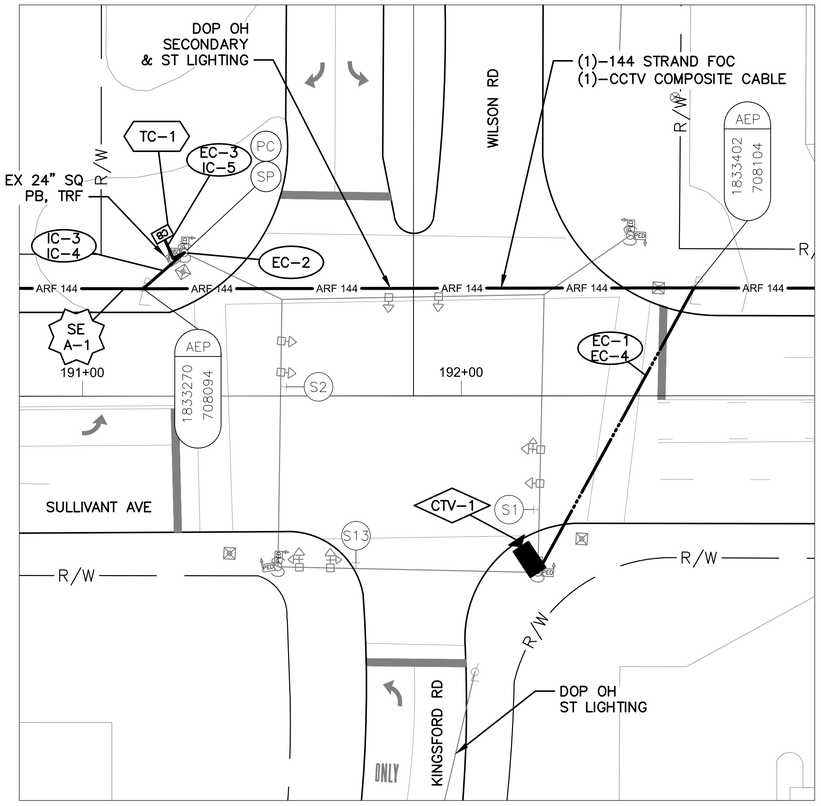
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

103
911

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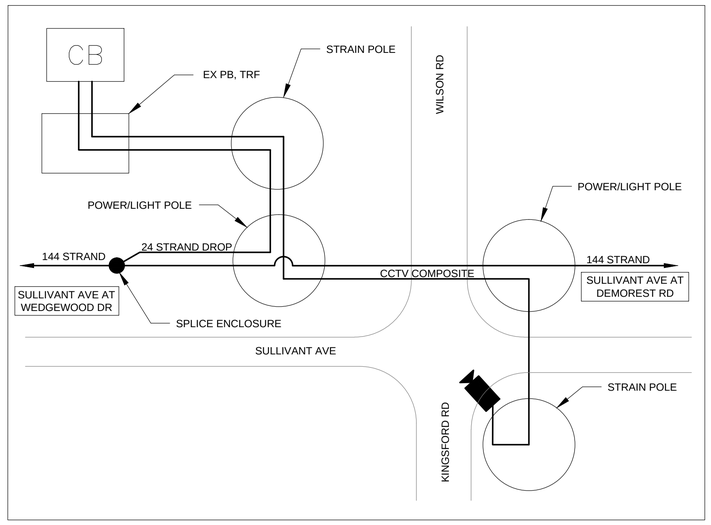


SULLIVANT AVE BETWEEN STATION 185+00 AND 196+00



DETAIL - INT 1031

0 20 40
HORIZONTAL SCALE IN FEET



CABLE SCHEMATIC
NOT TO SCALE

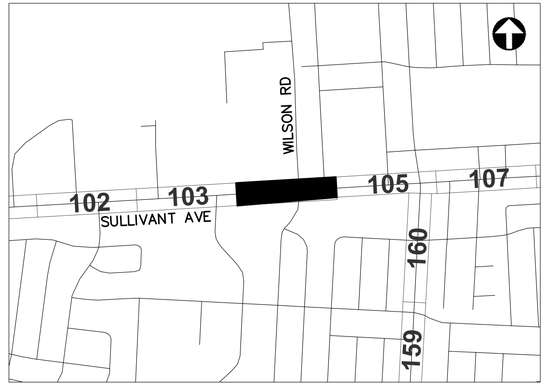
NOTES:

1. SEE SHEET 106 FOR QUANTITIES.
2. SEE SHEETS 602 & 700 FOR COMMUNICATION DETAILS.
3. POWER SUPPLY REMOVAL AT INT 1031

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

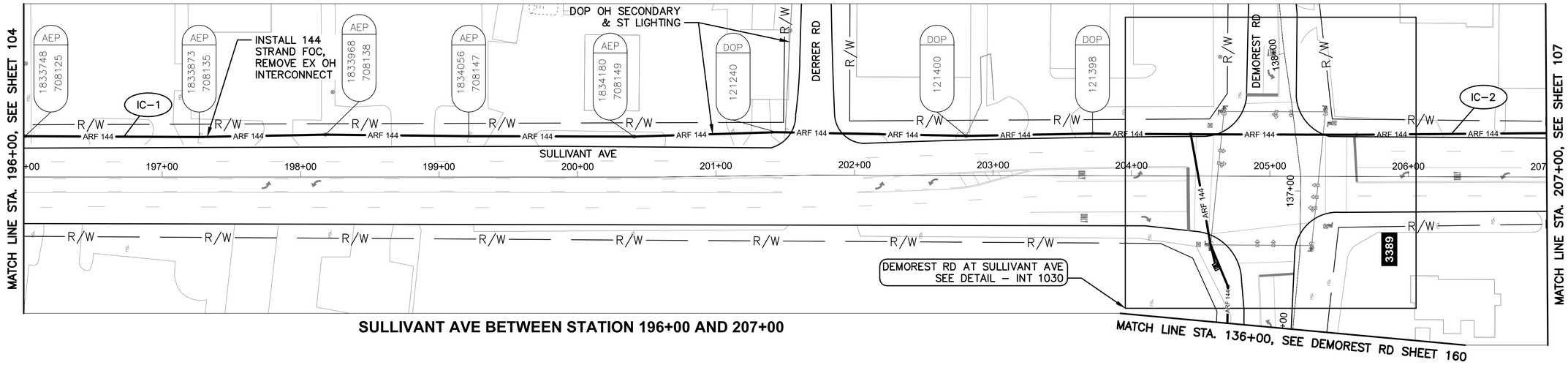
INTERCONNECT PLAN
SULLIVANT AVE BETWEEN STA. 185+00 AND 196+00, INT 1031

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

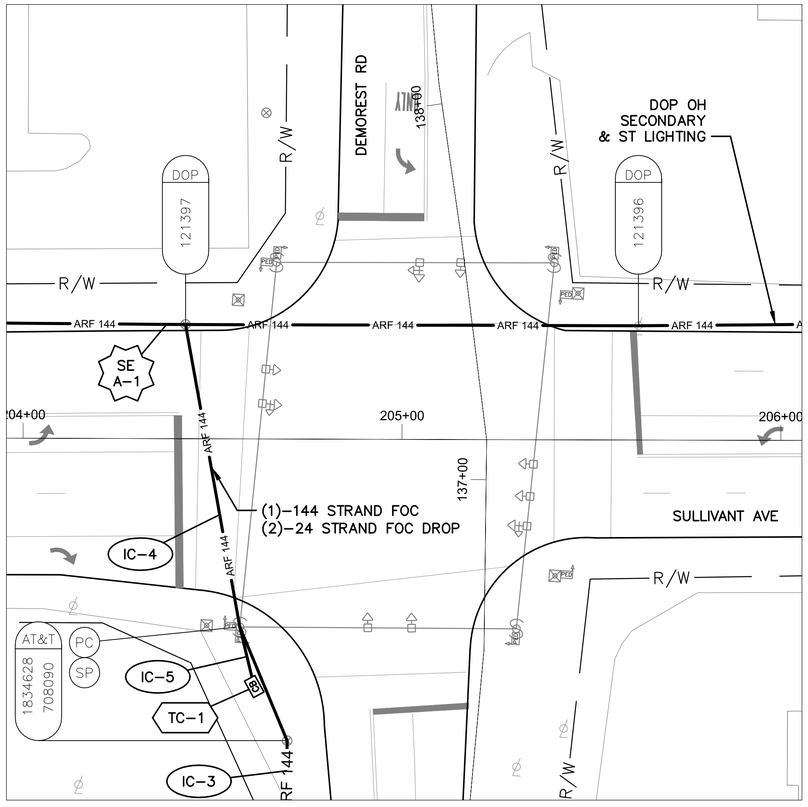
104
911

2953-E

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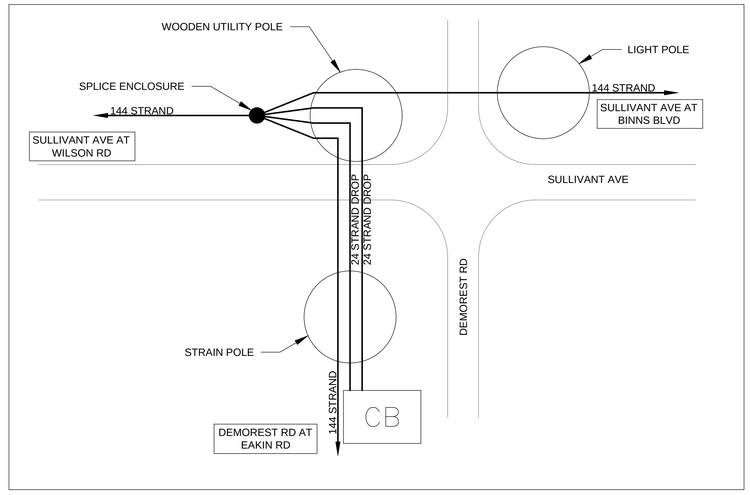


SULLIVANT AVE BETWEEN STATION 196+00 AND 207+00



DETAIL - INT 1030

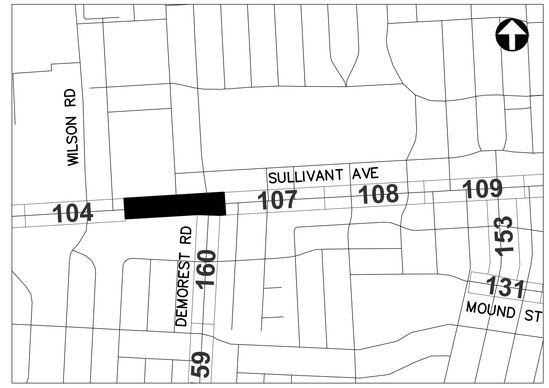
0 20 40
HORIZONTAL SCALE IN FEET



CABLE SCHEMATIC
NOT TO SCALE

NOTES:

1. SEE SHEET 106 FOR QUANTITIES.
2. SEE SHEETS 602 & 701 FOR COMMUNICATION DETAILS.



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
SULLIVANT AVE BETWEEN STA. 196+00 AND 207+00, INT 1030

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

105
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	202 EXISTING CONDUIT CLEANED, AS PER PLAN FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND FT	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT FT	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT FT	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER EACH	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 FIBER EACH	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE EACH	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES FT	632 SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE FT	632 SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM EACH	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE EACH	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH EACH	633 CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER EACH	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN EACH
SULLIVANT AVE. BETWEEN STA. 142+08 AND 152+00, INT 1034																		
100	IC-4	SULLIVANT AVE	142+66, 58' LT	142+67, 73' LT	15			15										
100	IC-2	SULLIVANT AVE	142+66, 58' LT	142+71, 58' LT			6											
100	TC-1	SULLIVANT AVE	142+67, 73' LT															
100	IC-3	SULLIVANT AVE	142+67, 73' LT	142+71, 58' LT							1							
100	SE A-1	SULLIVANT AVE	142+71, 58' LT			75				1								
100	IC-1	SULLIVANT AVE	142+71, 58' LT	152+00, 45' LT		942	928					942						
SULLIVANT AVE. BETWEEN STA. 152+00 AND 163+00																		
101	IC-1	SULLIVANT AVE	152+00, 45' LT	163+00, 48' LT		1117	1100					1117						
101	IC-2	SULLIVANT AVE	154+97, 45' LT			150												
SULLIVANT AVE. BETWEEN STA. 163+00 AND 174+00, INT 1032																		
102	IC-1	SULLIVANT AVE	163+00, 48' LT	170+20, 30' LT		733	722					733						
102	SE A-1	SULLIVANT AVE	170+20, 30' LT			150			1									
102	IC-2	SULLIVANT AVE	170+20, 30' LT	174+00, 28' LT		386	380					386						
102	IC-3	SULLIVANT AVE	170+20, 30' LT	170+24, 36' RT			66				1	67						
102	TC-1	SULLIVANT AVE	170+24, 36' RT												2	1	1	
SULLIVANT AVE. BETWEEN STA. 174+00 AND 185+00, INT 1110																		
103	IC-1	SULLIVANT AVE	174+00, 28' LT	182+01, 28' LT		814	802					814						
103	SE A-1	SULLIVANT AVE	182+01, 28' LT			150			1									
103	IC-3	SULLIVANT AVE	182+01, 28' LT	182+28, 35' RT							1							
103	IC-2	SULLIVANT AVE	182+01, 28' LT	185+00, 29' LT		302	298					302						
103	IC-4	SULLIVANT AVE	182+28, 35' RT	182+44, 32' LT			59					70						
103	TC-1	SULLIVANT AVE	182+28, 35' RT												2	1	1	
SULLIVANT AVE. BETWEEN STA. 185+00 AND 196+00, INT 1031																		
104	IC-1	SULLIVANT AVE	185+00, 29' LT	191+15, 28' LT		625	616					625						
104	SE A-1	SULLIVANT AVE	191+15, 28' LT			150			1									
104	IC-3	SULLIVANT AVE	191+15, 28' LT	191+26, 38' LT			14					14						
104	IC-2	SULLIVANT AVE	191+15, 28' LT	196+00, 29' LT		491	484					491						
104	IC-4	SULLIVANT AVE	191+15, 28' LT	191+23, 46' LT							1							
104	TC-1	SULLIVANT AVE	191+23, 46' LT										10		2	1	1	
104	IC-5	SULLIVANT AVE	191+23, 46' LT	191+26, 38' LT	9			9										
104	EC-3	SULLIVANT AVE	191+23, 46' LT	191+26, 38' LT									9					
104	EC-1	SULLIVANT AVE	191+26, 38' LT	192+20, 47' RT									250					
104	EC-2	SULLIVANT AVE	191+26, 38' LT										35					
104	CTV-1	SULLIVANT AVE	192+20, 47' RT											1				
104	EC-4	SULLIVANT AVE	192+20, 47' RT	192+61, 29' LT								87						
SULLIVANT AVE. BETWEEN STA. 196+00 AND 207+00, INT 1030																		
105	IC-1	SULLIVANT AVE	196+00, 29' LT	204+42, 30' LT		856	843					856						
105	SE A-1	SULLIVANT AVE	204+42, 30' LT			150				1								
105	IC-2	SULLIVANT AVE	204+42, 30' LT	207+00, 32' LT		261	257					261						
105	IC-3	SULLIVANT AVE	204+42, 30' LT	204+69, 106' RT		142	140					142						
105	IC-4	SULLIVANT AVE	204+42, 30' LT	204+61, 65' RT							2							
105	IC-5	SULLIVANT AVE	204+57, 50' RT	204+61, 65' RT	16			16										
105	TC-1	SULLIVANT AVE	204+61, 65' RT												4	1	1	
SHEET TOTAL					40	7494	6725	40	3	2	6	6907	304	1	10	4	3	1

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

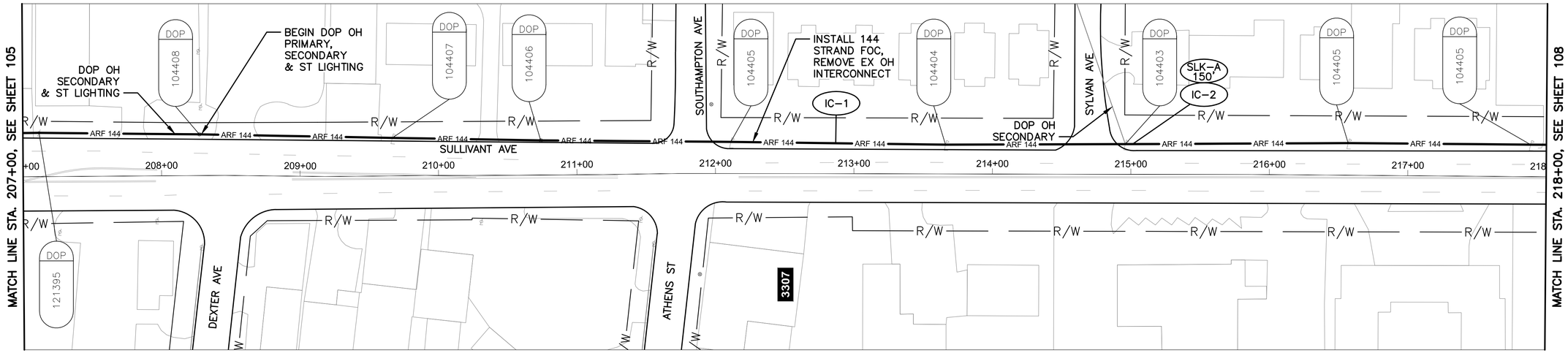
CIP: 540007–100005
PID NUMBER: 14522

SULLIVANT AVE BTW STA. 142+08 AND 207+00
INTS 1034, 1032, 1110, 1031, 1030

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

106
911

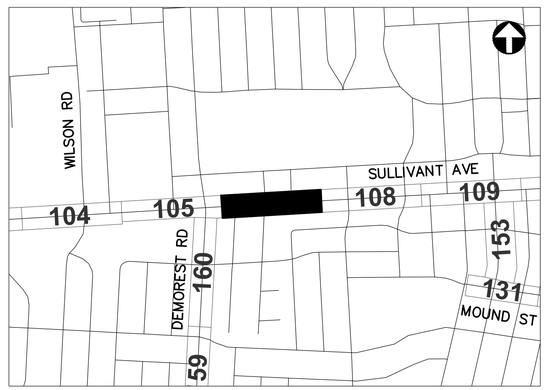
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SULLIVANT AVE BETWEEN STATION 207+00 AND 218+00

NOTES:

1. SEE SHEET 113 FOR QUANTITIES.
2. SEE SHEET 602 FOR COMMUNICATION DETAILS.



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

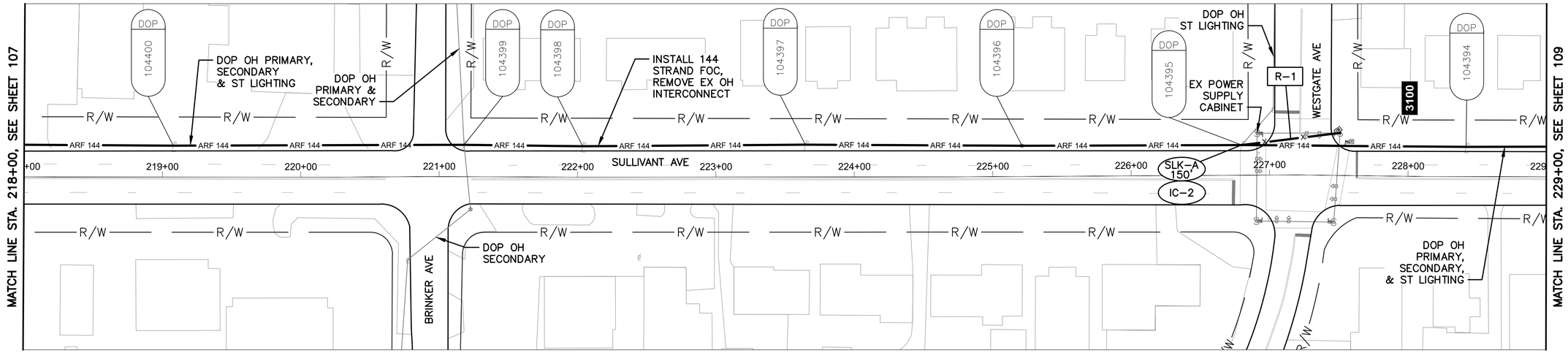
INTERCONNECT PLAN
SULLIVANT AVE BETWEEN STA. 207+00 AND 218+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

107
911

2953-E

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SULLIVANT AVE BETWEEN STATION 218+00 AND 229+00

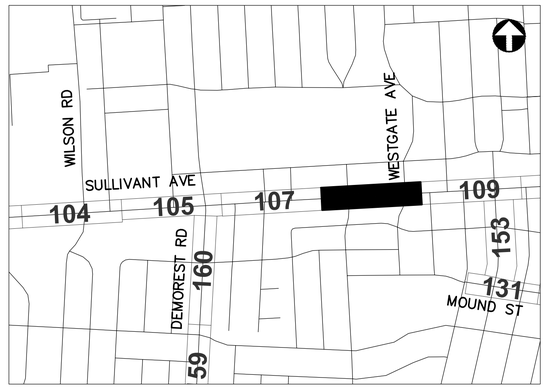
NOTES:

1. SEE SHEET 113 FOR QUANTITIES.
2. SEE SHEET 602 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

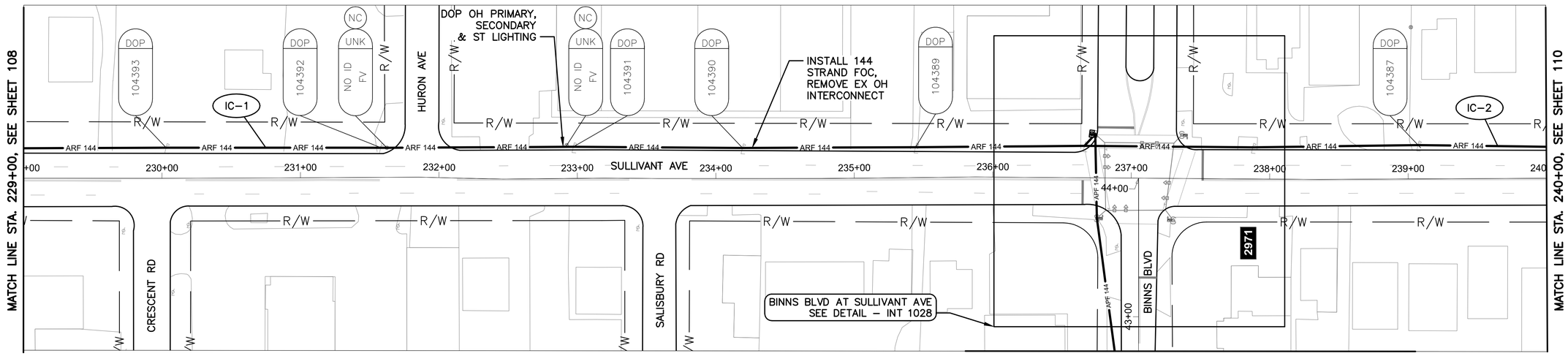
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PID NUMBER: 14522

INTERCONNECT PLAN
SULLIVANT AVE BETWEEN STA. 218+00 AND 229+00

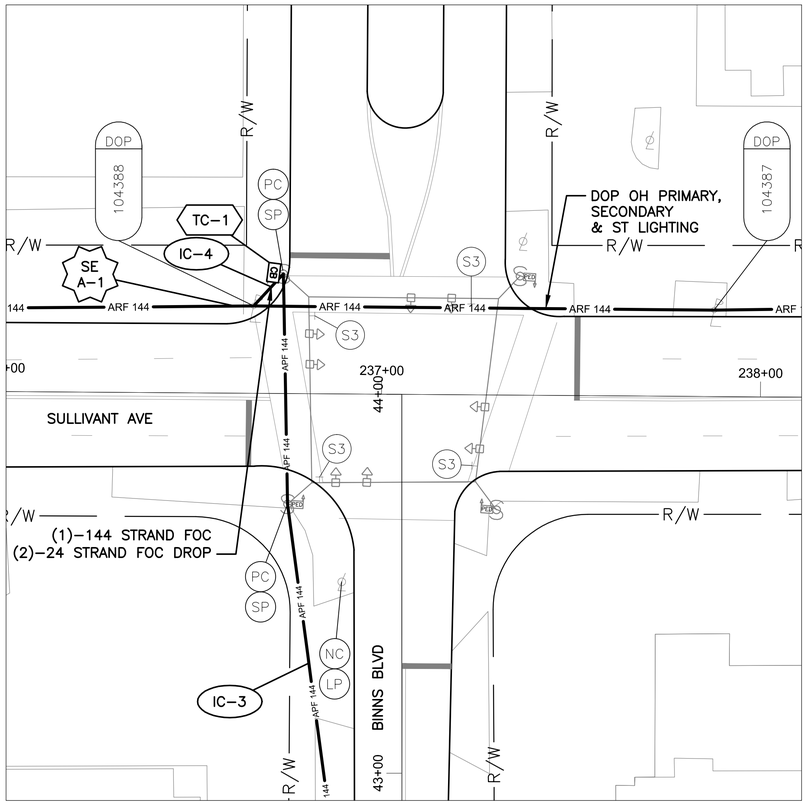
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

108
911

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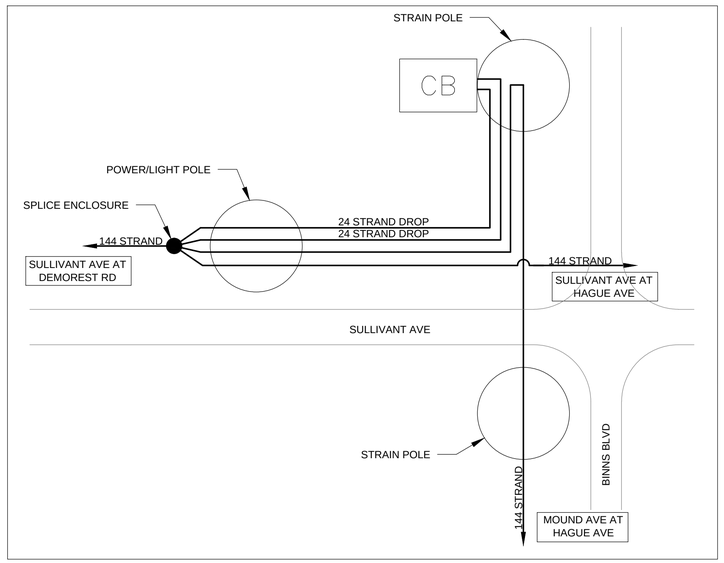


SULLIVANT AVE BETWEEN STATION 229+00 AND 240+00



DETAIL - INT 1028

0 20 40
HORIZONTAL SCALE IN FEET



CABLE SCHEMATIC
NOT TO SCALE

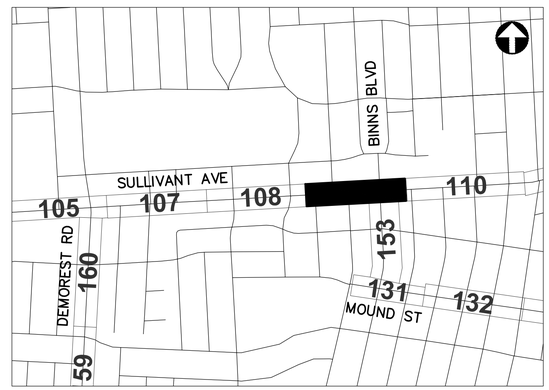
NOTES:

1. SEE SHEET 113 FOR QUANTITIES.
2. SEE SHEETS 602 & 705 FOR COMMUNICATION DETAILS.
3. FOR THE SPLICE ENCLOSURE AT INT 1028, PROVIDE 75' OF SLACK FROM ALL THREE DIRECTIONS, WITH AN ADDITIONAL 150' OF SLACK FROM ANY ONE DIRECTION FOR THE 375' TOTAL.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

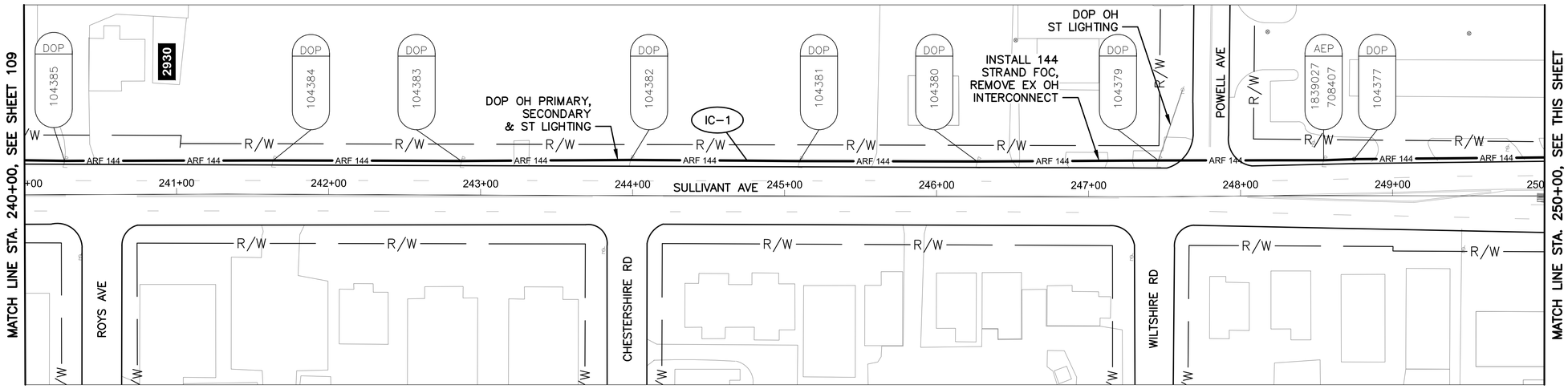
INTERCONNECT PLAN
SULLIVANT AVE BETWEEN STA. 229+00 AND 240+00, INT 1028

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

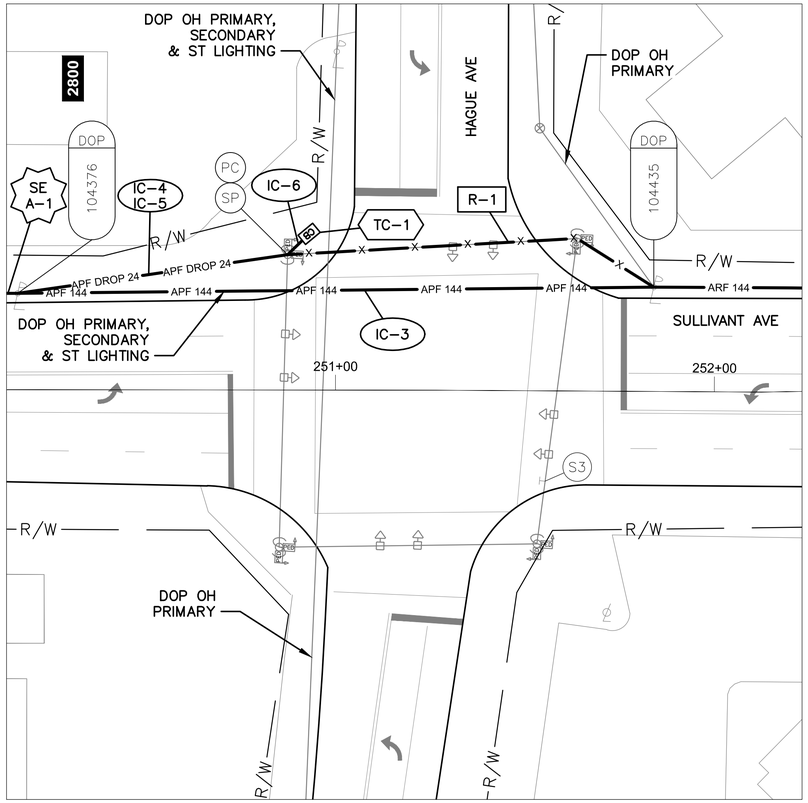
109
911

2953-E

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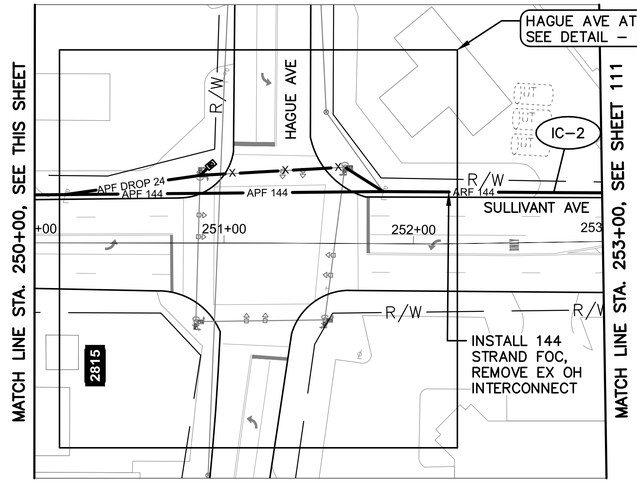


SULLIVANT AVE BETWEEN STATION 240+00 AND 250+00



DETAIL - INT 1027

0 20 40
HORIZONTAL SCALE IN FEET



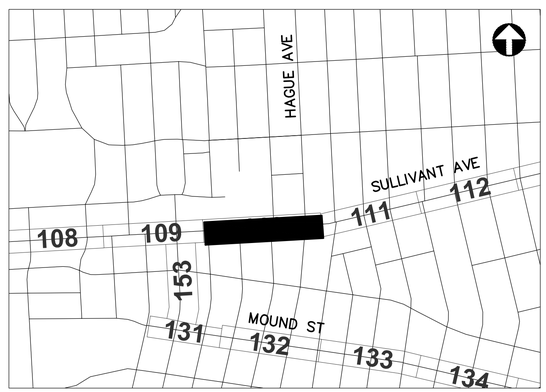
SULLIVANT AVE BETWEEN STATION 250+00 AND 253+00

NOTES:

1. SEE SHEET 113 FOR QUANTITIES.
2. SEE SHEETS 602 & 706 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

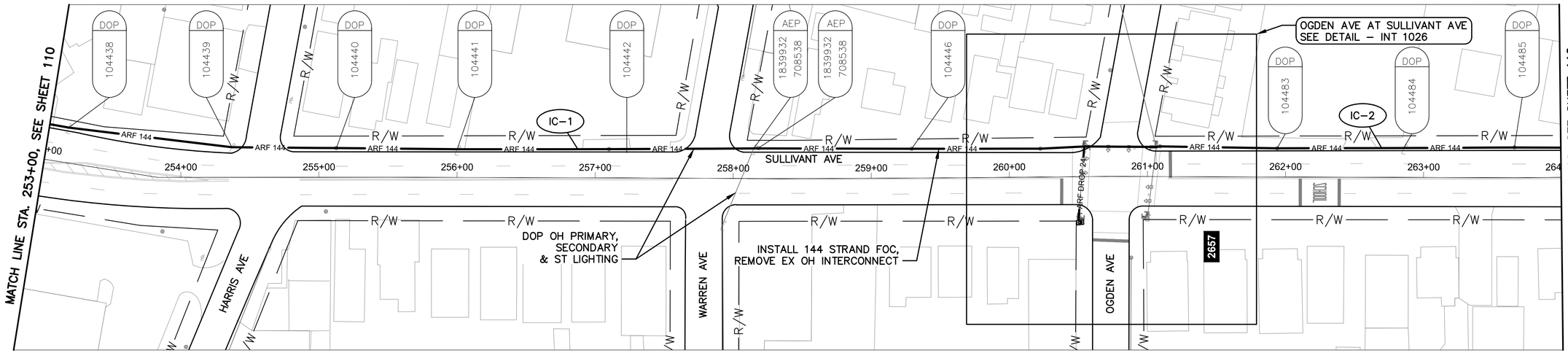
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PID NUMBER: 14522

INTERCONNECT PLAN
SULLIVANT AVE BETWEEN STA. 240+00 AND 253+00, INT 1027

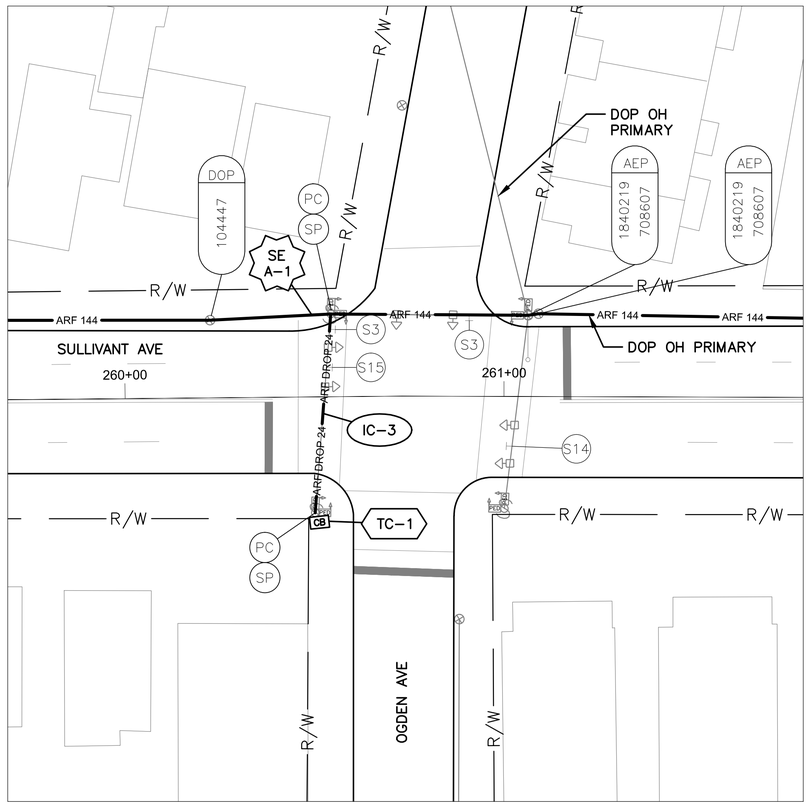
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

110
911

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SULLIVANT AVE BETWEEN STATION 253+00 AND 264+00



DETAIL - INT 1026

0 20 40
HORIZONTAL SCALE IN FEET

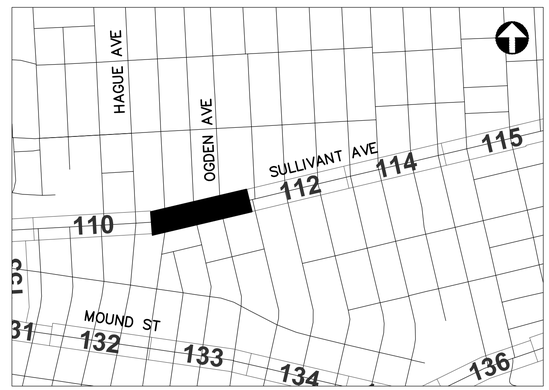
NOTES:

1. SEE SHEET 113 FOR QUANTITIES.
2. SEE SHEETS 603 & 707 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

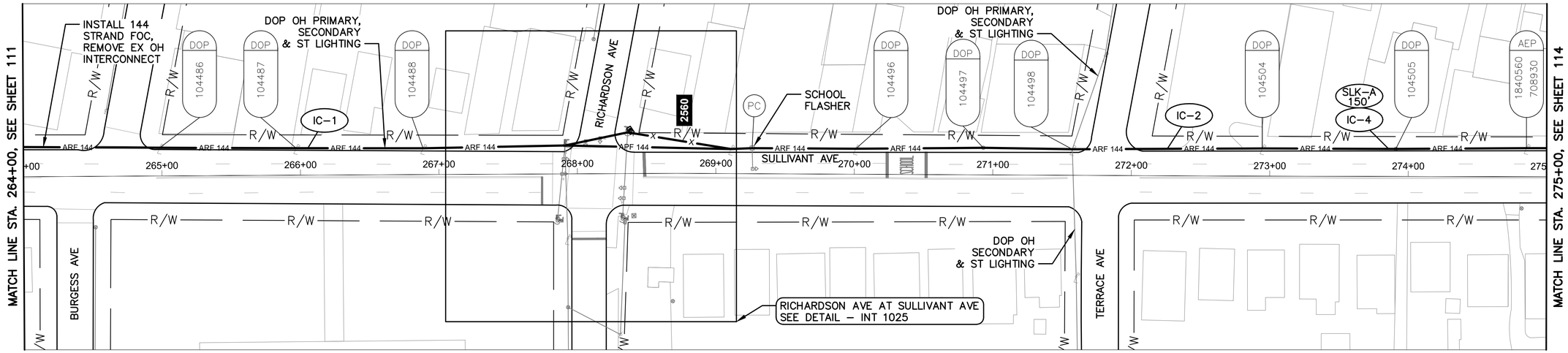
INTERCONNECT PLAN
SULLIVANT AVE BETWEEN STA. 253+00 AND 264+00, INT 1026

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

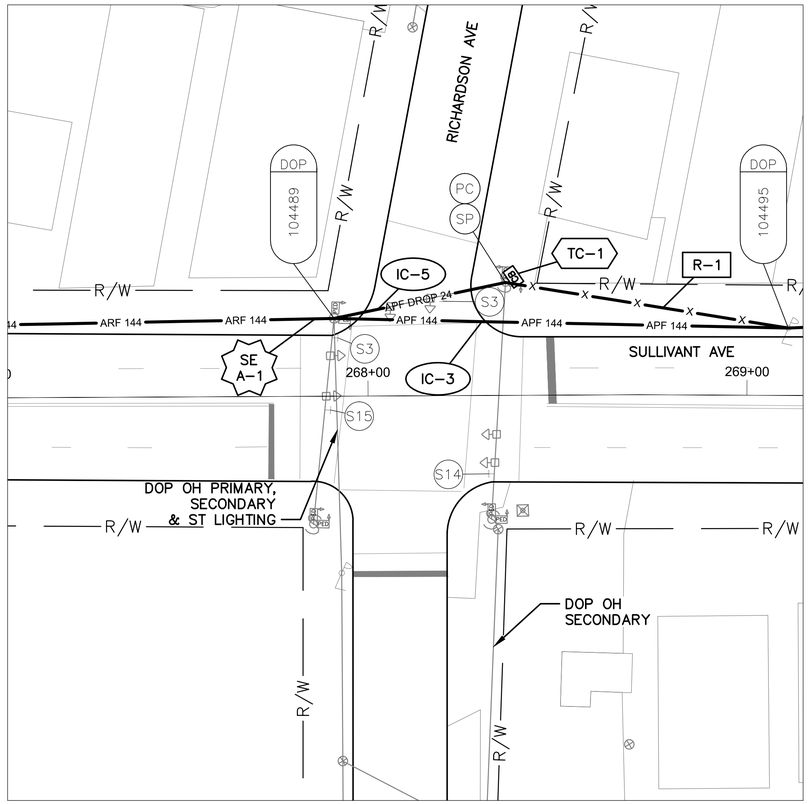
111
911

2953-E

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SULLIVANT AVE BETWEEN STATION 264+00 AND 275+00



DETAIL - INT 1025

0 20 40

HORIZONTAL SCALE IN FEET

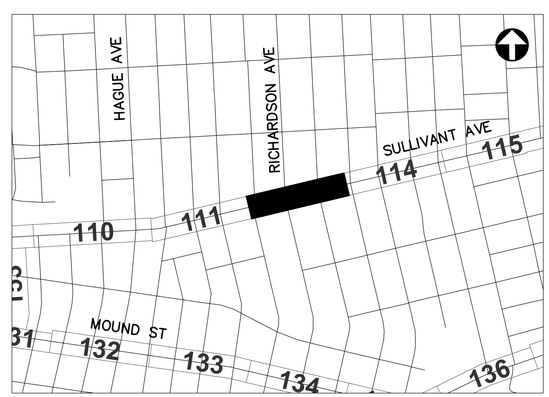
NOTES:

1. SEE SHEET 113 FOR QUANTITIES.
2. SEE SHEETS 603 & 708 FOR COMMUNICATION DETAILS.
3. AN ADDITIONAL 150' SLACK IS QUANTIFIED AT INT 1025 FOR FUTURE DoT USE.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
SULLIVANT AVE BETWEEN STA. 264+00 AND 275+00, INT 1025

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

112
911

2953-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	632	632	633	633	633	633								
					EXISTING CONDUIT CLEANED, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN							
			FROM	TO	FT	FT	FT	FT	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH								
SULLIVANT AVE. BETWEEN STA. 207+00 AND 218+00																									
107	IC-1	SULLIVANT AVE	207+00, 32' LT	218+00, 23' LT		1117	1100						1117												
107	IC-2	SULLIVANT AVE	215+01, 22' LT			150																			
SULLIVANT AVE. BETWEEN STA. 218+00 AND 229+00																									
108	IC-1	SULLIVANT AVE	218+00, 23' LT	229+00, 22' LT		1117	1100						1117												
108	IC-2	SULLIVANT AVE	226+80, 22' LT			150																			
108	R-1	SULLIVANT AVE	226+80, 22' LT	227+50, 31' LT			72																		
SULLIVANT AVE. BETWEEN STA. 229+00 AND 240+00, INT 1028																									
109	IC-1	SULLIVANT AVE	229+00, 22' LT	236+66, 23' LT		777	766						777												
109	SE A-1	SULLIVANT AVE	236+66, 23' LT			375				1															
109	IC-4	SULLIVANT AVE	236+66, 23' LT	236+73, 32' LT			12				2														
109	IC-2	SULLIVANT AVE	236+66, 23' LT	240+00, 23' LT		339	334						339												
109	IC-3	SULLIVANT AVE	236+66, 23' LT	236+88, 125' RT		172							172												
109	TC-1	SULLIVANT AVE	236+73, 32' LT											2	1		1								
SULLIVANT AVE. BETWEEN STA. 240+00 AND 253+00, INT 1027																									
110	IC-1	SULLIVANT AVE	240+00, 23' LT	250+16, 25' LT		1031	1016						1031												
110	SE A-1	SULLIVANT AVE	250+16, 25' LT			150			1																
110	IC-4	SULLIVANT AVE	250+16, 25' LT	250+87, 36' LT									73												
110	IC-3	SULLIVANT AVE	250+16, 25' LT	251+83, 28' LT		171							171												
110	IC-5	SULLIVANT AVE	250+16, 25' LT	250+93, 41' LT								1													
110	IC-6	SULLIVANT AVE	250+87, 36' LT	250+93, 41' LT	8			8																	
110	R-1	SULLIVANT AVE	250+87, 36' LT	251+83, 28' LT			100																		
110	TC-1	SULLIVANT AVE	250+93, 41' LT											2	1	1									
110	IC-2	SULLIVANT AVE	251+83, 28' LT	253+00, 26' LT		118	116						118												
SULLIVANT AVE. BETWEEN STA. 253+00 AND 264+00, INT 1026																									
111	IC-1	SULLIVANT AVE	253+00, 26' LT	260+54, 22' LT		761	750						761												
111	IC-3	SULLIVANT AVE	260+49, 31' RT	260+54, 22' LT			53					1	54												
111	TC-1	SULLIVANT AVE	260+49, 31' RT											2	1		1								
111	SE A-1	SULLIVANT AVE	260+54, 22' LT			150			1																
111	IC-2	SULLIVANT AVE	260+54, 22' LT	264+00, 21' LT		351	346						351												
SULLIVANT AVE. BETWEEN STA. 264+00 AND 275+00, INT 1025																									
112	IC-1	SULLIVANT AVE	264+00, 21' LT	267+91, 21' LT		397	391						397												
112	SE A-1	SULLIVANT AVE	267+91, 21' LT			300			1																
112	IC-5	SULLIVANT AVE	267+91, 21' LT	268+36, 30' LT								1	47												
112	IC-3	SULLIVANT AVE	267+91, 21' LT	269+10, 18' LT		122							122												
112	TC-1	SULLIVANT AVE	268+36, 30' LT											2	1	1									
112	R-1	SULLIVANT AVE	268+36, 30' LT	269+10, 18' LT			76																		
112	IC-2	SULLIVANT AVE	269+10, 18' LT	275+00, 21' LT		598	589						598												
112	IC-4	SULLIVANT AVE	273+85, 20' LT			150																			
SHEET TOTAL					8	8496	6821	8	3	1	2	3	7245	8	4	2	2	-	-	-	-	-	-	-

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

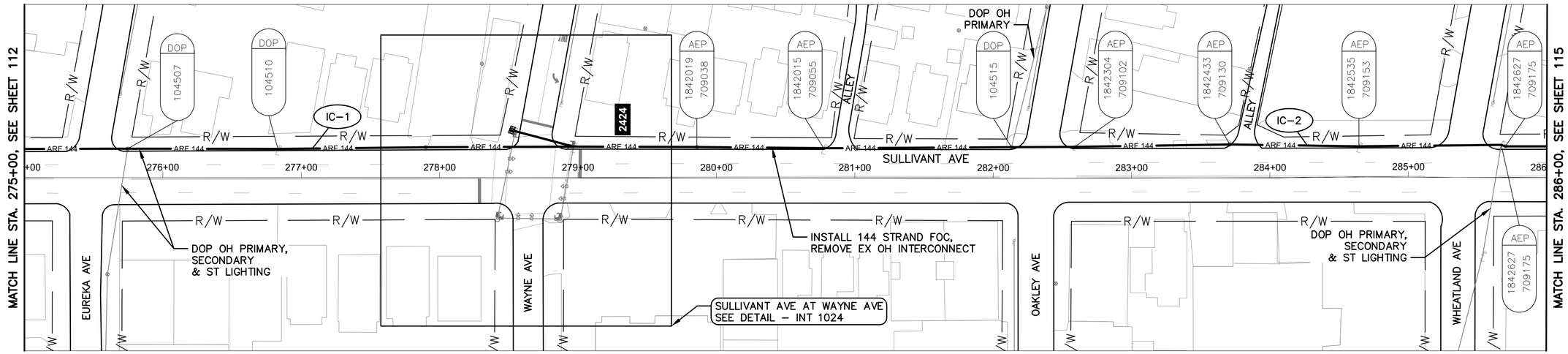
CIP: 540007–100005
PID NUMBER: 14522

SULLIVANT AVE. BTW STA. 207+00 AND 275+00
INTS 1028, 1027, 1026, 1025

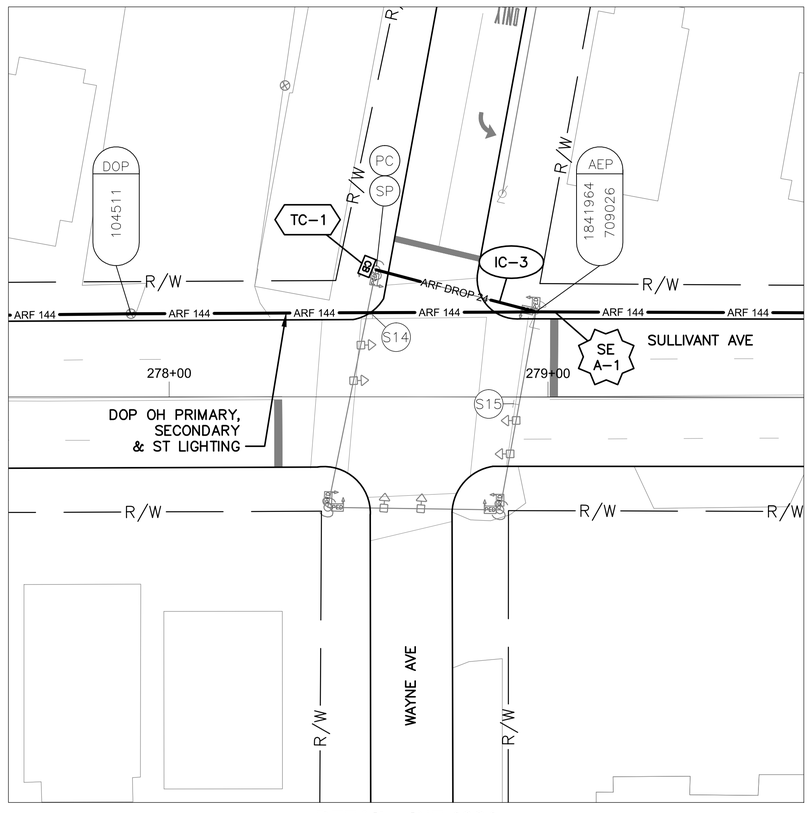
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

113
911

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SULLIVANT AVE BETWEEN STATION 275+00 AND 286+00



DETAIL - INT 1024

0 20 40
HORIZONTAL SCALE IN FEET

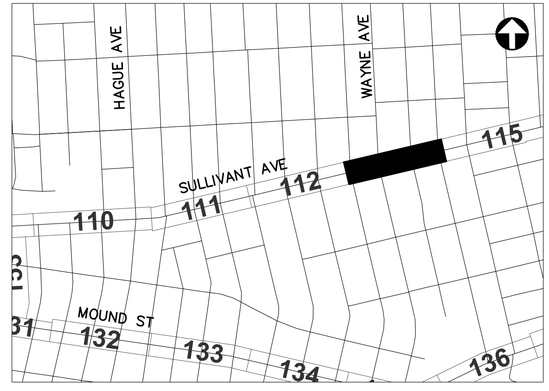
NOTES:

1. SEE SHEET 122 FOR QUANTITIES.
2. SEE SHEETS 603 & 709 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

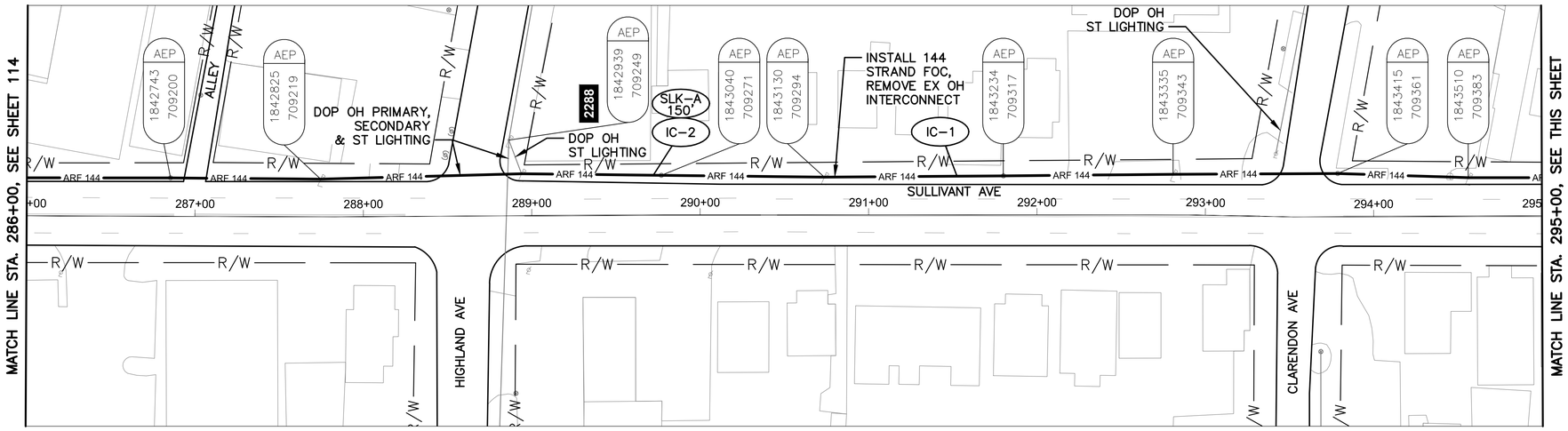
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
SULLIVANT AVE BETWEEN STA. 275+00 AND 286+00, INT 1024

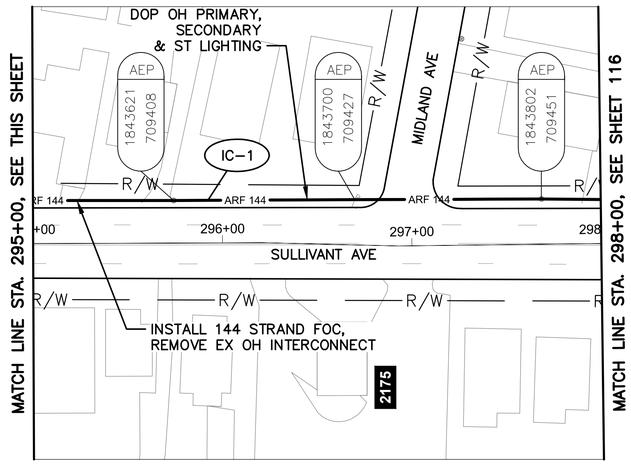
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

114
911

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SULLIVANT AVE BETWEEN STATION 286+00 AND 295+00



SULLIVANT AVE BETWEEN STATION 295+00 AND 298+00

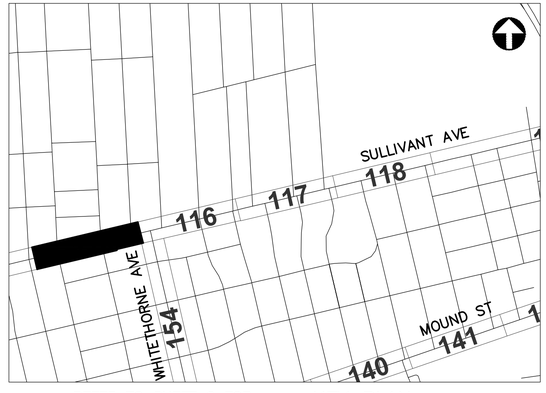
NOTES:

1. SEE SHEET 122 FOR QUANTITIES.
2. SEE SHEET 603 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

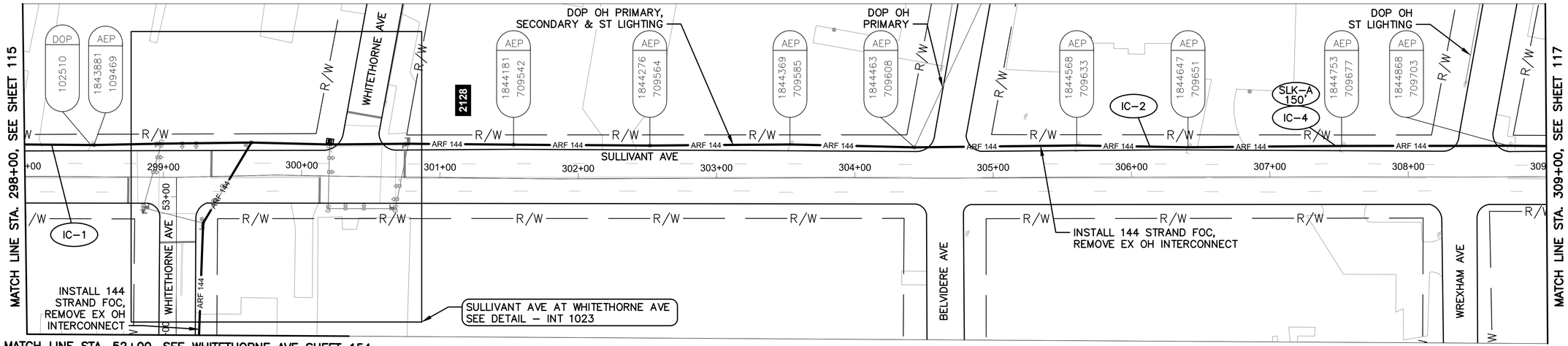
INTERCONNECT PLAN
SULLIVANT AVE BETWEEN STA. 286+00 AND 298+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

115
911

2953-E

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SULLIVANT AVE BETWEEN STATION 298+00 AND 309+00

DETAIL - INT 1023

0 20 40
HORIZONTAL SCALE IN FEET

CABLE SCHEMATIC

NOT TO SCALE

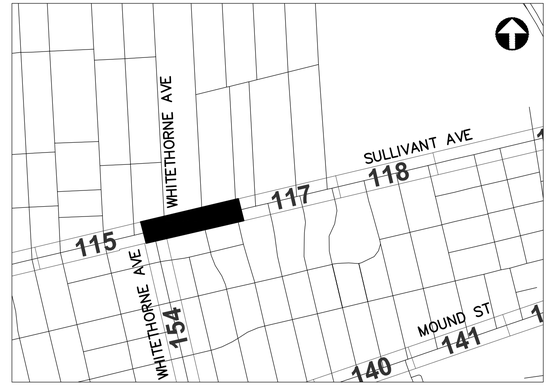
NOTES:

1. SEE SHEET 122 FOR QUANTITIES.
2. SEE SHEETS 603 & 710 FOR COMMUNICATION DETAILS.
3. FOR THE SPLICE ENCLOSURE AT INT 1023, PROVIDE 75' OF SLACK FROM ALL THREE DIRECTIONS, WITH AN ADDITIONAL 150' OF SLACK FROM ANY ONE DIRECTION FOR THE 375' TOTAL.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

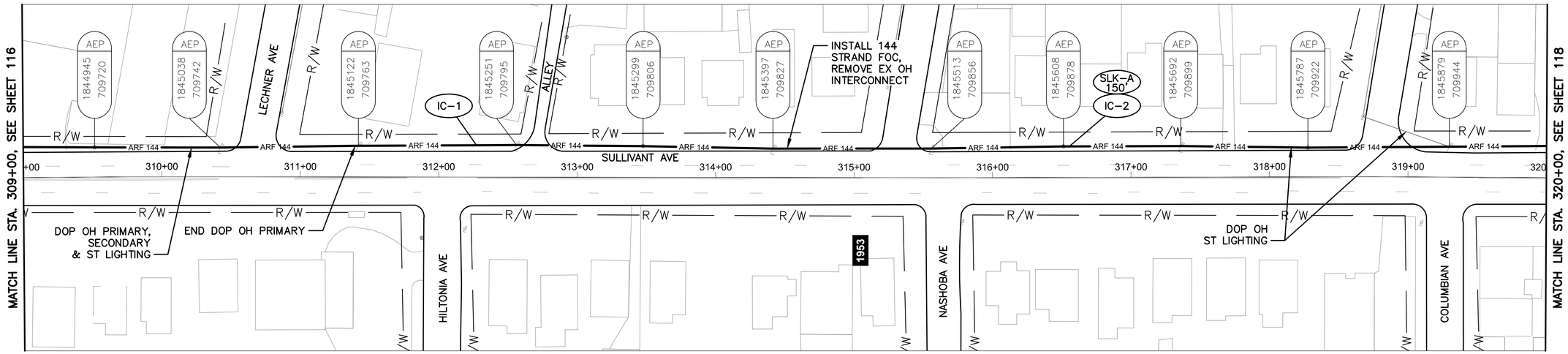
INTERCONNECT PLAN
SULLIVANT AVE BETWEEN STA. 298+00 AND 309+00, INT 1023

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c – CONSTRUCTION AS–BUILT

116
911

2953-E

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SULLIVANT AVE BETWEEN STATION 309+00 AND 320+00

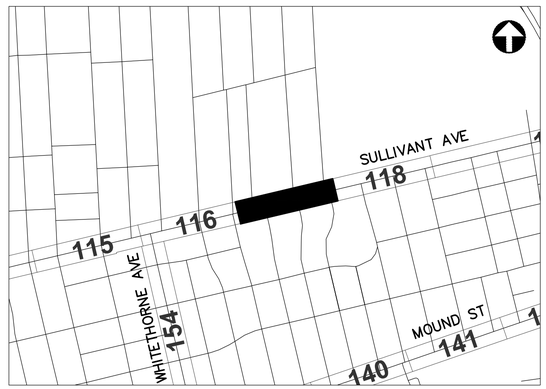
NOTES:

1. SEE SHEET 122 FOR QUANTITIES.
2. SEE SHEET 603 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

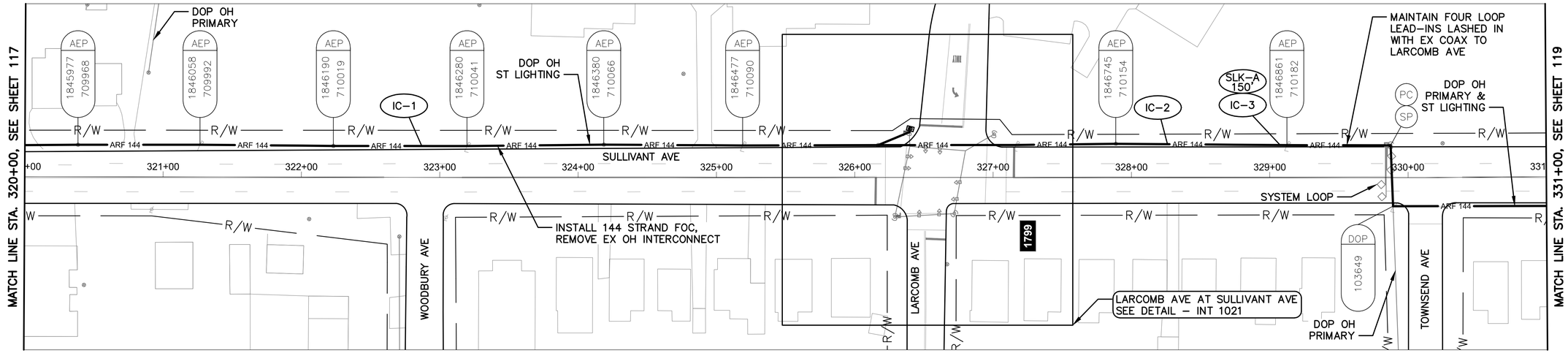
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PID NUMBER: 14522

INTERCONNECT PLAN
SULLIVANT AVE BETWEEN STA. 309+00 AND 320+00

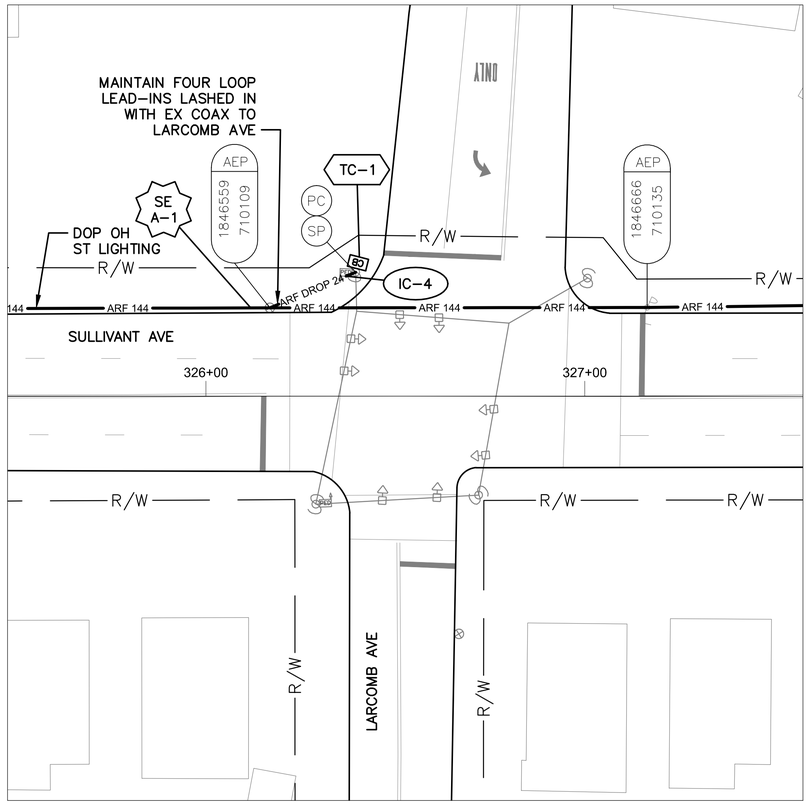
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

117
911

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SULLIVANT AVE BETWEEN STATION 320+00 AND 331+00



DETAIL - INT 1021

0 20 40

HORIZONTAL SCALE IN FEET

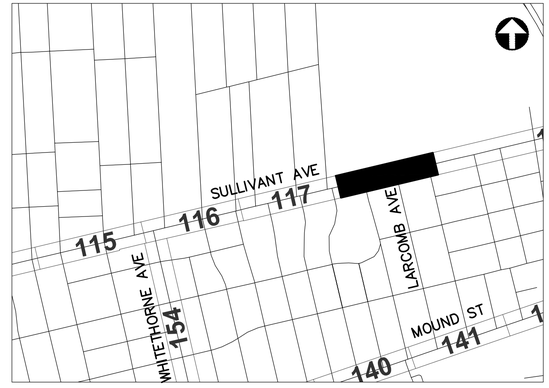
NOTES:

1. SEE SHEET 122 FOR QUANTITIES.
2. SEE SHEETS 603 & 711 FOR COMMUNICATION DETAILS.
3. UNLASH LOOP LEAD IN AND LASH WITH FIBER.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

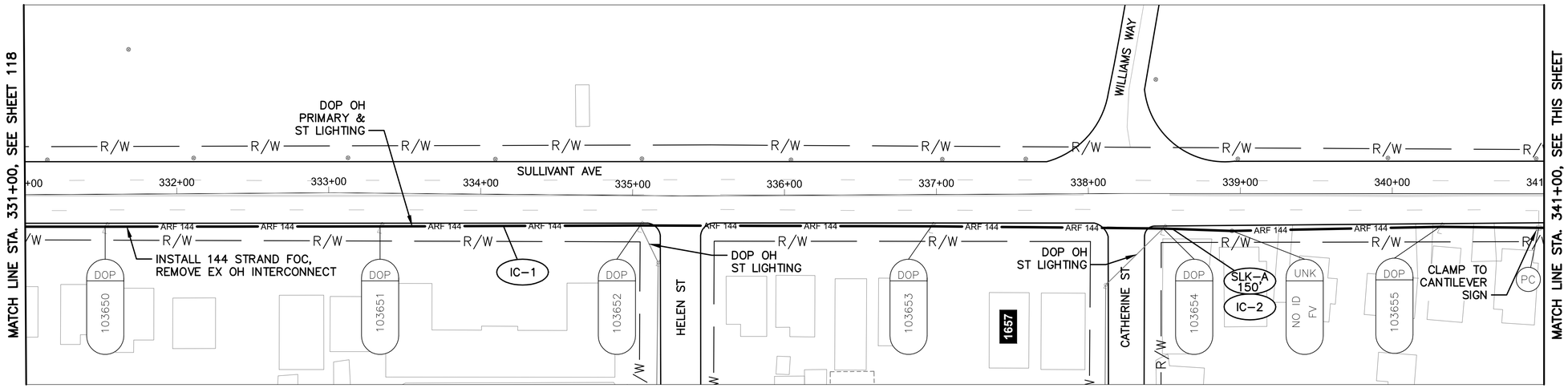
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INTERCONNECT PLAN
SULLIVANT AVE BETWEEN STA. 320+00 AND 331+00, INT 1021

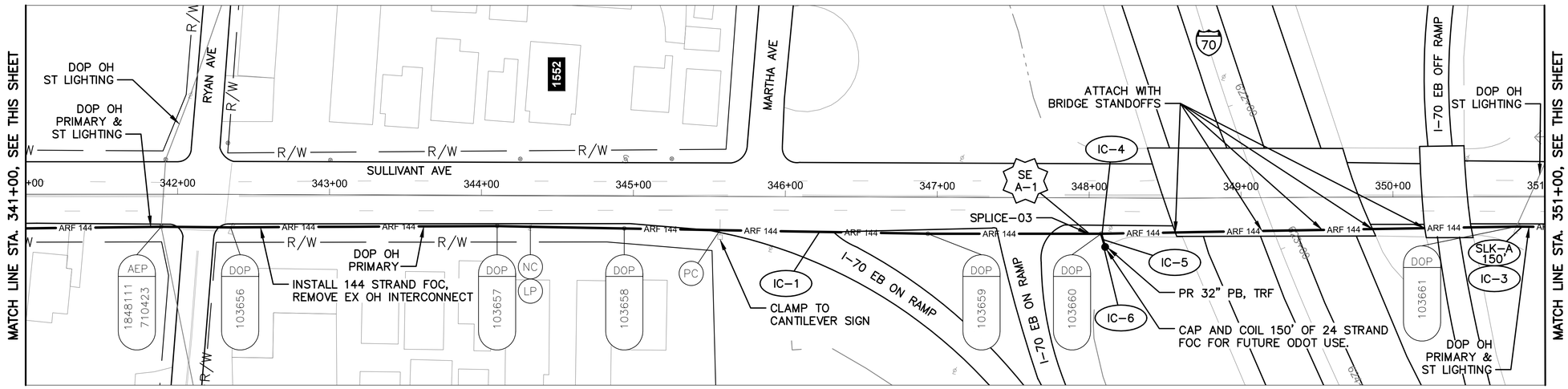
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

118
911

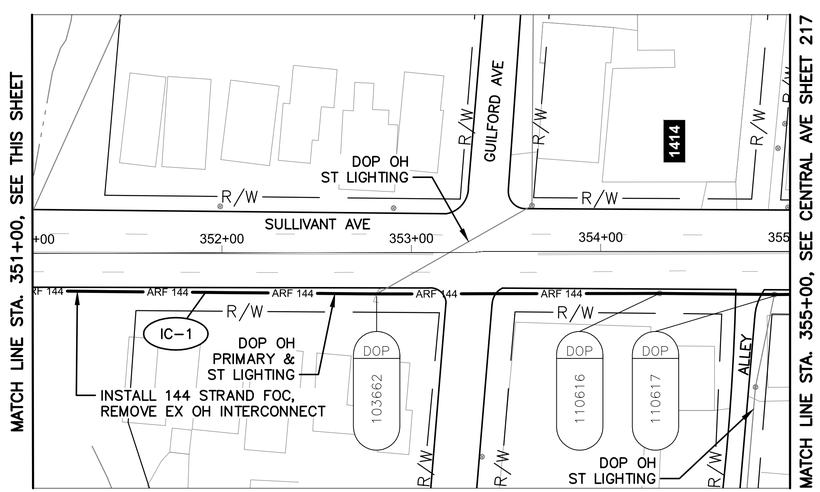
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SULLIVANT AVE BETWEEN STATION 331+00 AND 341+00



SULLIVANT AVE BETWEEN STATION 341+00 AND 351+00



SULLIVANT AVE BETWEEN STATION 351+00 AND 355+00

NOTES:

1. SEE SHEET 122 FOR QUANTITIES.
2. SEE SHEETS 603 & 712 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

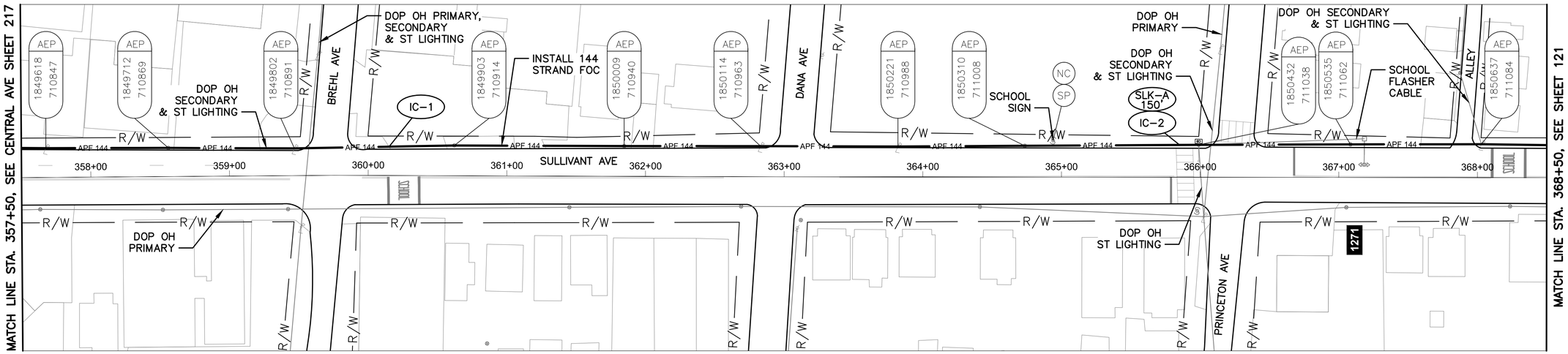
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PID NUMBER: 14522

INTERCONNECT PLAN
SULLIVANT AVE BETWEEN STA. 331+00 AND 355+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

119
911

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SULLIVANT AVE BETWEEN STATION 357+50 AND 368+50

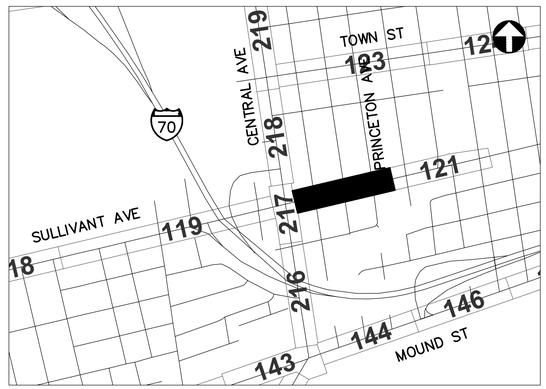
NOTES:

1. SEE SHEET 122 FOR QUANTITIES.
2. SEE SHEET 603 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

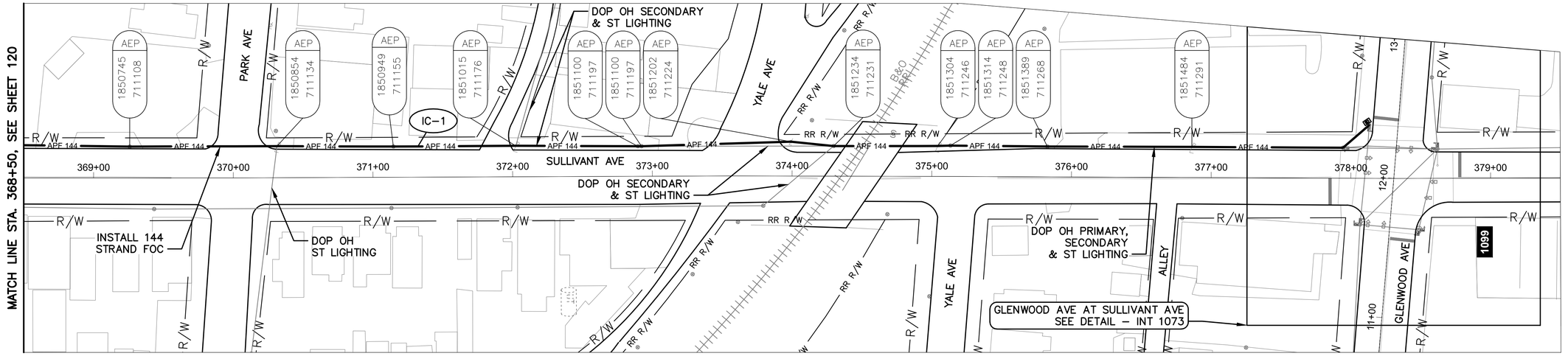
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PID NUMBER: 14522

INTERCONNECT PLAN
SULLIVANT AVE BETWEEN STA. 357+50 AND 368+50

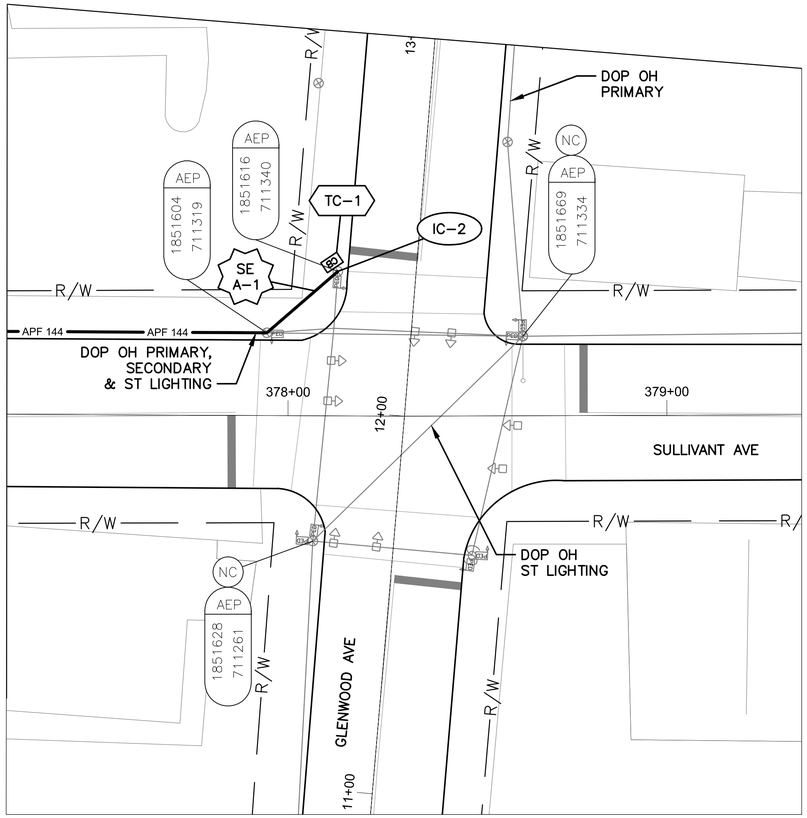
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

120
911

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SULLIVANT AVE BETWEEN STATION 368+50 AND 379+50



DETAIL - INT 1073

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 122 FOR QUANTITIES.
2. SEE SHEETS 603 & 713 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
SULLIVANT AVE BETWEEN STA. 368+50 AND 379+50, INT 1073

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

121
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	625 CONDUIT, 2", AS PER PLAN	625 PULL BOX, 32", AS PER PLAN	625 TRENCH, 36" DEEP, AS PER PLAN	632 CONDUIT RISER, 3", 725.04, AS PER PLAN	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 FIBER	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	632 SIGNALIZATION, MISC.: AERIAL STANDOFF, ATTACHED TO BRIDGE	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	633 CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN			
					FT	EACH	FT	EACH	FT	FT	FT	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH			
SULLIVANT AVE. BETWEEN STA. 275+00 AND 286+00, INT 1024																									
114	IC-1	SULLIVANT AVE	275+00, 21' LT	278+96, 22' LT					403		397					403									
114	TC-1	SULLIVANT AVE	278+54, 34' LT															2	1		1				
114	IC-3	SULLIVANT AVE	278+54, 34' LT	278+96, 22' LT							44				1	45									
114	SE A-1	SULLIVANT AVE	278+96, 22' LT						150			1													
114	IC-2	SULLIVANT AVE	278+96, 22' LT	286+00, 23' LT					714		703					714									
SULLIVANT AVE. BETWEEN STA. 286+00 AND 298+00																									
115	IC-1	SULLIVANT AVE	286+00, 23' LT	298+00, 23' LT					1218		1200					1218									
115	IC-2	SULLIVANT AVE	289+72, 24' LT						150																
SULLIVANT AVE. BETWEEN STA. 298+00 AND 309+00, INT 1023																									
116	IC-1	SULLIVANT AVE	298+00, 23' LT	299+64, 24' LT					166		164					166									
116	IC-3	SULLIVANT AVE	299+23, 115' RT	299+64, 24' LT					151		149					151									
116	SE A-1	SULLIVANT AVE	299+64, 24' LT						375				1												
116	IC-5	SULLIVANT AVE	299+64, 24' LT	300+19, 23' LT											2										
116	IC-2	SULLIVANT AVE	299+64, 24' LT	309+00, 22' LT					950		936					950									
116	TC-1	SULLIVANT AVE	300+19, 23' LT															2	1		1				
116	IC-4	SULLIVANT AVE	307+47, 22' LT						150																
SULLIVANT AVE. BETWEEN STA. 309+00 AND 320+00																									
117	IC-1	SULLIVANT AVE	309+00, 22' LT	320+00, 23' LT					1117		1100					1117									
117	IC-2	SULLIVANT AVE	316+55, 22' LT						150																
SULLIVANT AVE. BETWEEN STA. 320+00 AND 331+00, INT 1021																									
118	IC-1	SULLIVANT AVE	320+00, 23' LT	326+16, 23' LT					626		617					626									
118	SE A-1	SULLIVANT AVE	326+16, 23' LT						150			1													
118	IC-4	SULLIVANT AVE	326+16, 23' LT	326+39, 33' LT							25				1	25									
118	IC-2	SULLIVANT AVE	326+16, 23' LT	331+00, 21' RT					534		526					534									
118	TC-1	SULLIVANT AVE	326+39, 33' LT															2	1		1				
118	IC-3	SULLIVANT AVE	329+07, 23' LT						150																
SULLIVANT AVE. BETWEEN STA. 331+00 AND 355+00, INT SPLICE-03																									
119	IC-1	SULLIVANT AVE	331+00, 21' RT	355+00, 23' RT					2436		2400					2436	5								
119	IC-2	SULLIVANT AVE	338+55, 23' RT						150																
119	SE A-1	SULLIVANT AVE	348+08, 24' RT						150			1													
119	IC-4	SULLIVANT AVE	348+08, 24' RT				1			35															
119	IC-5	SULLIVANT AVE	348+08, 24' RT	348+10, 32' RT	9		9			9															
119	IC-6	SULLIVANT AVE	348+10, 32' RT			1				150															
119	IC-3	SULLIVANT AVE	350+74, 20' RT						150																
SULLIVANT AVE. BETWEEN STA. 357+50 AND 368+50																									
120	IC-1	SULLIVANT AVE	357+50, 21' LT	368+50, 23' LT					1117							1117									
120	IC-2	SULLIVANT AVE	365+85, 23' LT						150																
SULLIVANT AVE. BETWEEN STA. 368+50 AND 379+50, INT 1073																									
121	IC-1	SULLIVANT AVE	368+50, 23' LT	378+12, 38' LT					984							984									
121	SE A-1	SULLIVANT AVE	378+12, 38' LT						75			1													
121	IC-2	SULLIVANT AVE	378+12, 38' LT	378+12, 38' LT										1											
121	TC-1	SULLIVANT AVE	378+12, 38' LT															2	1		1				
SHEET TOTAL					9	1	9	1	12366	194	8261	4	1	1	4	10486	5	8	4	1	3	-	-	-	

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

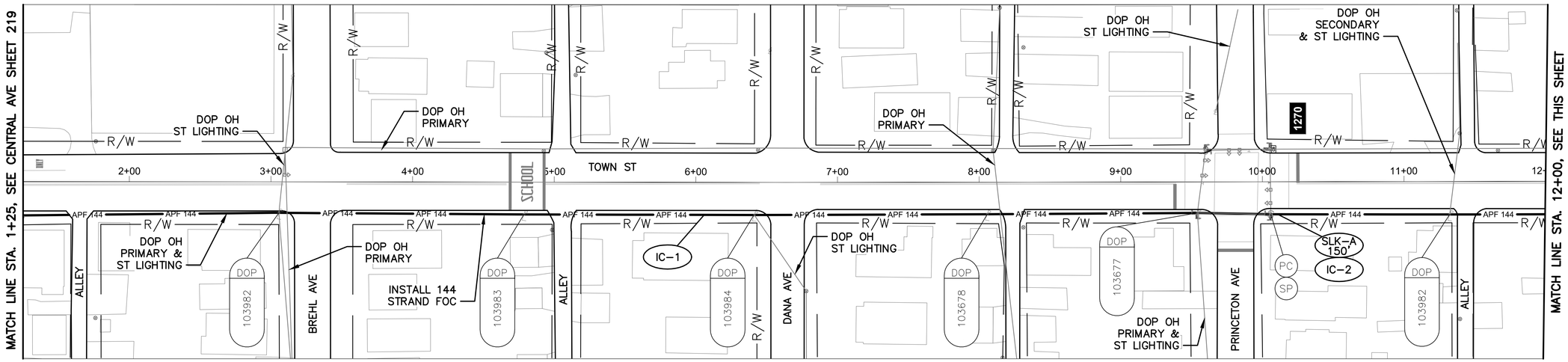
2953-E

CIP: 540007–100005
PID NUMBER: 14522

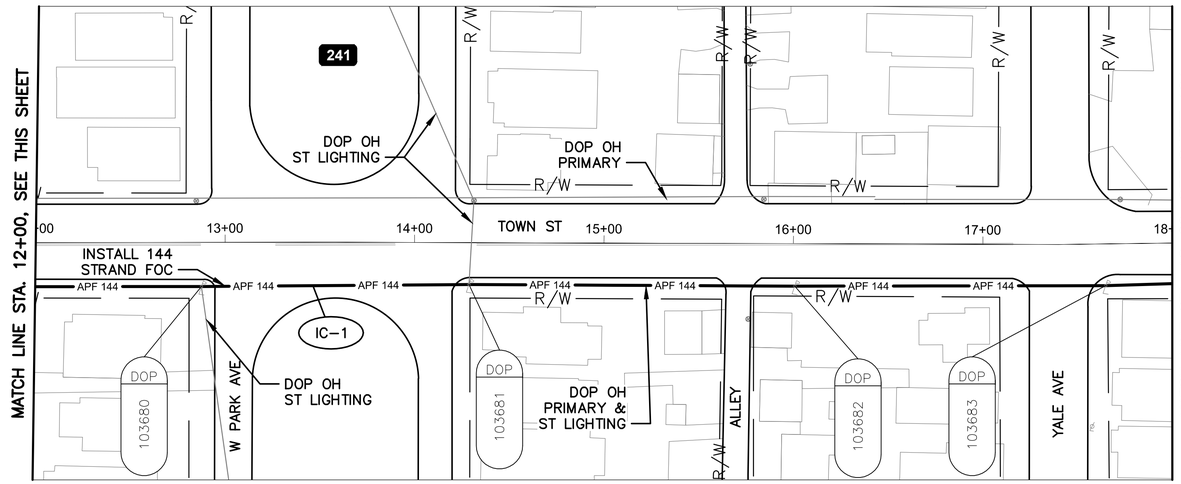
SULLIVANT AVE. BTW STA. 275+00 AND 379+50
INTS 1024, 1023, 1021, 1073

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

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TOWN ST BETWEEN STATION 1+25 AND 12+00



TOWN ST BETWEEN STATION 12+00 AND 18+00

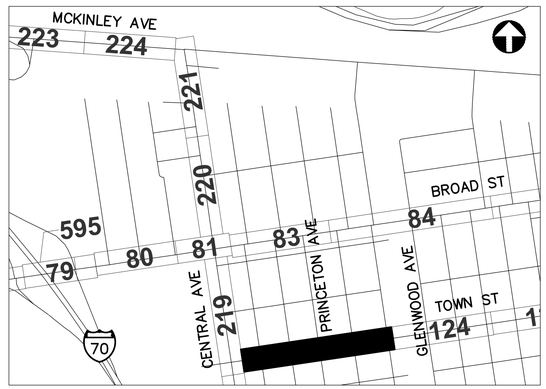
NOTES:

1. SEE SHEET 128 FOR QUANTITIES.
2. SEE SHEET 605 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

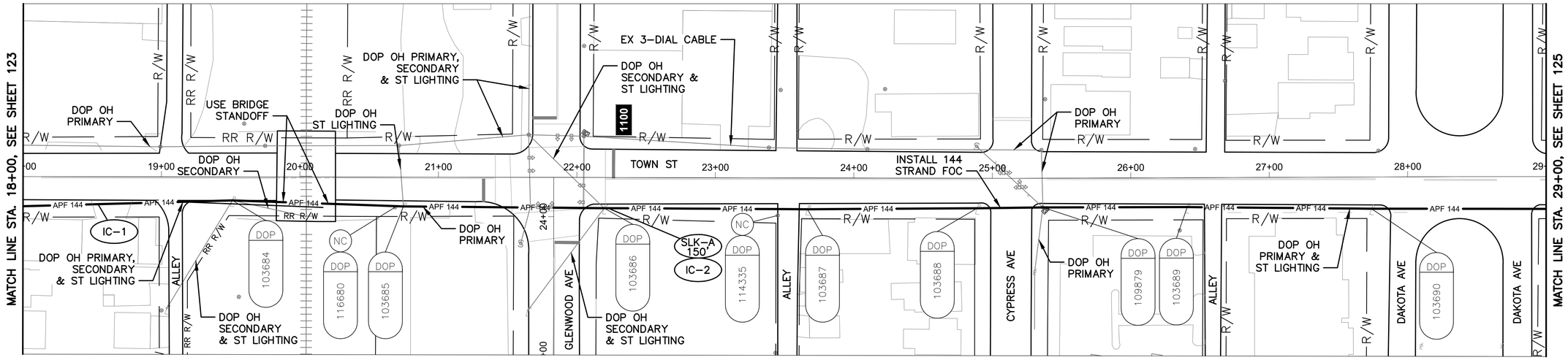
INTERCONNECT PLAN
TOWN ST BETWEEN STA. 1+25 AND 18+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

123
911

2953-E

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TOWN ST BETWEEN STATION 18+00 AND 29+00

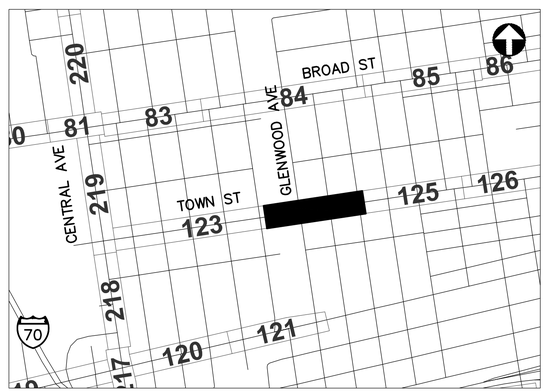
NOTES:

1. SEE SHEET 128 FOR QUANTITIES.
2. SEE SHEET 605 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

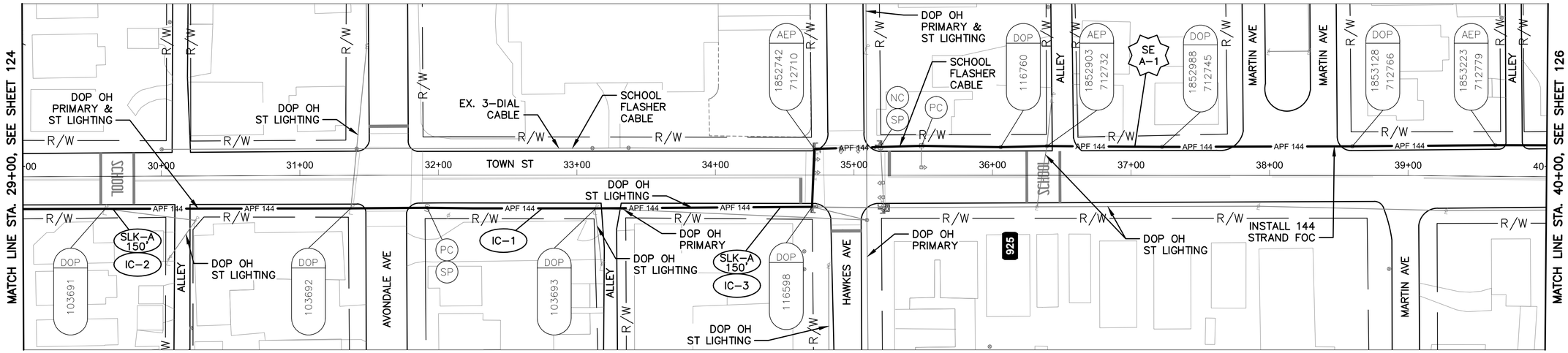
INTERCONNECT PLAN
TOWN ST BETWEEN STA. 18+00 AND 29+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

124
911

2953-E

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TOWN ST BETWEEN STATION 29+00 AND 40+00

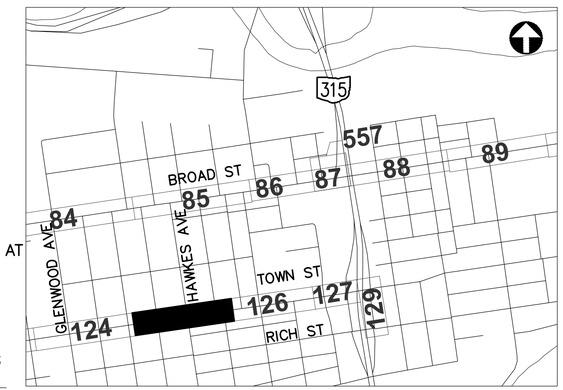
NOTES:

1. SEE SHEET 128 FOR QUANTITIES.
2. SEE SHEET 605 FOR COMMUNICATION DETAILS.
3. SPLICE ALL FIBERS, LIKE COLOR FIBER/BUFFER TUBES AT SE A-1.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

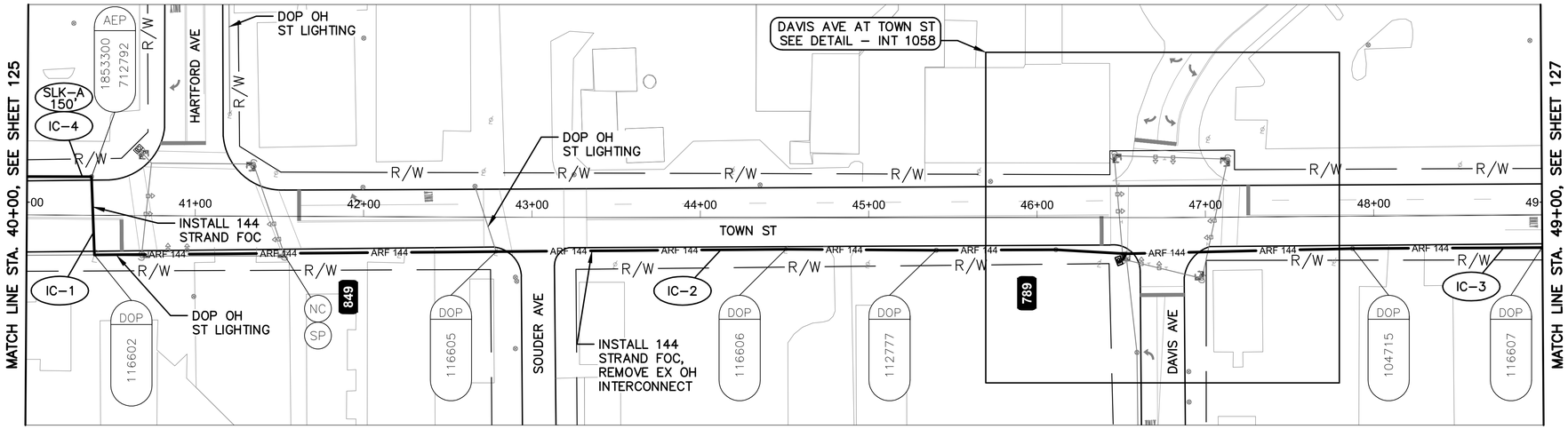
INTERCONNECT PLAN
TOWN ST BETWEEN STA. 29+00 AND 40+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

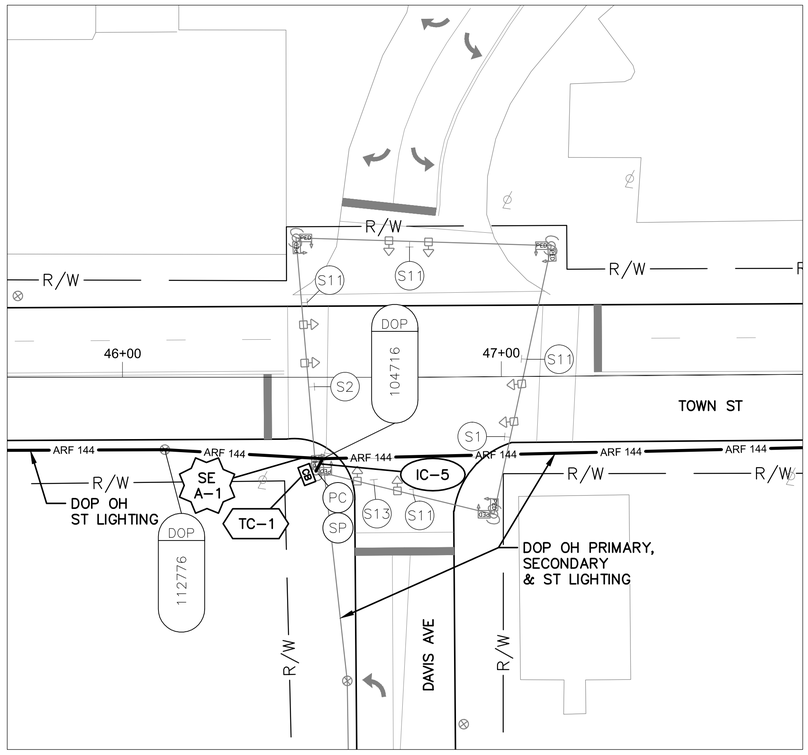
125
911

2953-E

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TOWN ST BETWEEN STATION 40+00 AND 49+00



DETAIL - INT 1058

0 20 40

HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 128 FOR QUANTITIES.
2. SEE SHEETS 605 & 672 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

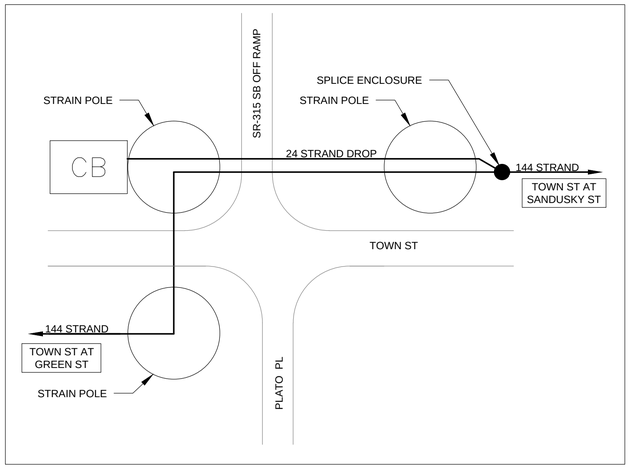
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
TOWN ST BETWEEN STA. 40+00 AND 49+00, INT 1058

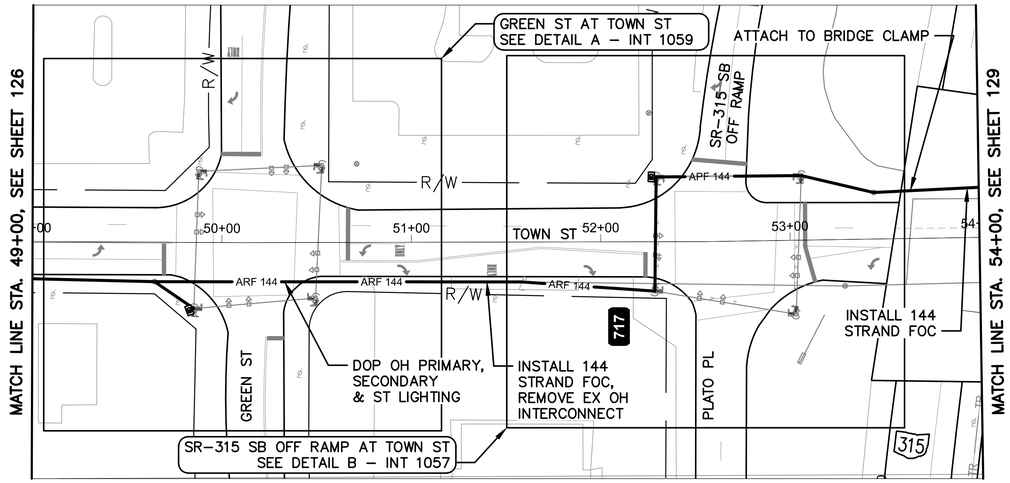
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

126
911

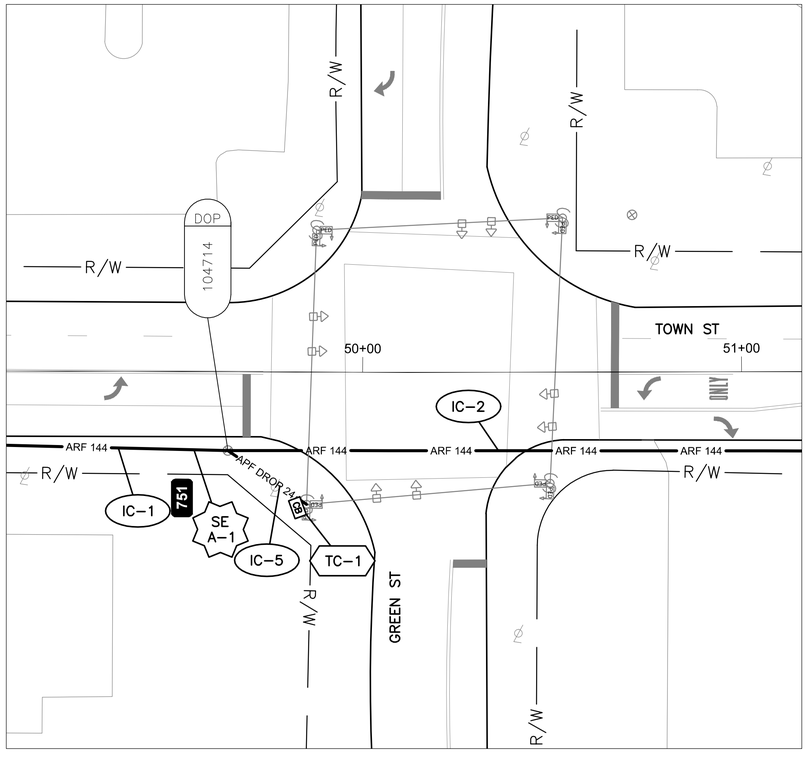
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CABLE SCHEMATIC
NOT TO SCALE

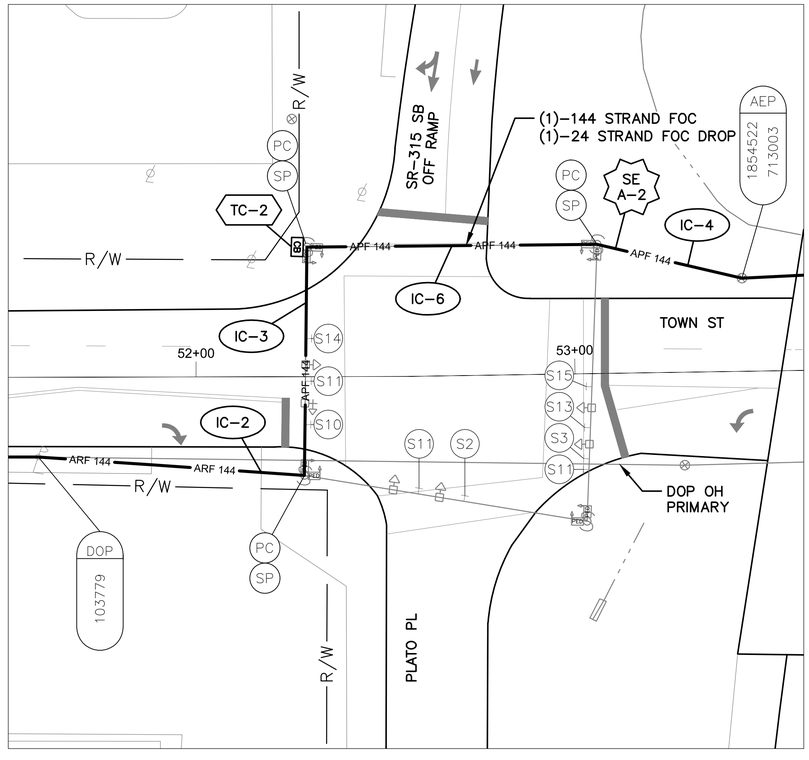


TOWN ST BETWEEN STATION 49+00 AND 54+00



DETAIL A - INT 1059

0 20 40
HORIZONTAL SCALE IN FEET



DETAIL B - INT 1057

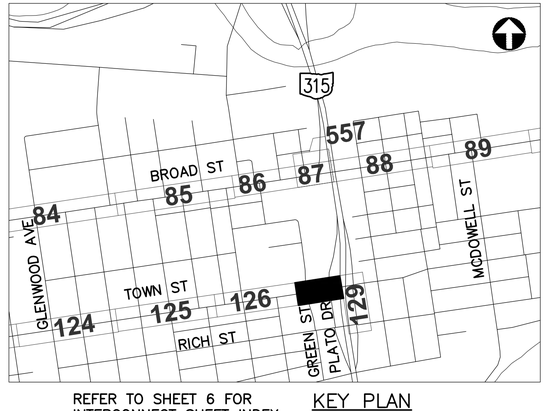
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 128 FOR QUANTITIES.
2. SEE SHEETS 605, 673 & 674 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
TOWN ST BETWEEN STA. 49+00 AND 54+00, INT 1057 & 1059

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c – CONSTRUCTION AS–BUILT

2953-E

127
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632	632	632	632	632	632	633	633	633											
					INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER										
			FROM	TO	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH											
TOWN ST. BETWEEN STA. 1+25 AND 18+00																								
123	IC-1	TOWN ST	1+25, 24' RT	18+00, 21' RT	1700					1700														
123	IC-2	TOWN ST	10+10, 23' RT		150																			
TOWN ST. BETWEEN STA. 18+00 AND 29+00																								
124	IC-1	TOWN ST	18+00, 21' RT	29+00, 23' RT	1117					1117														
124	IC-2	TOWN ST	22+19, 22' RT		150																			
TOWN ST. BETWEEN STA. 29+00 AND 40+00																								
125	IC-1	TOWN ST	29+00, 23' RT	40+00, 23' LT	1157					1157														
125	IC-2	TOWN ST	29+64, 23' RT		150																			
125	IC-3	TOWN ST	34+47, 23' RT		150																			
TOWN ST. BETWEEN STA. 40+00 AND 49+00, INT 1058																								
126	IC-1	TOWN ST	40+00, 23' LT	40+40, 24' RT	86					86														
126	IC-4	TOWN ST	40+32, 23' LT		150																			
126	IC-2	TOWN ST	40+40, 24' RT	46+52, 21' RT	618	609				618														
126	TC-1	TOWN ST	46+51, 25' RT								2	1	1											
126	IC-5	TOWN ST	46+51, 25' RT	46+52, 21' RT				1		4														
126	SE A-1	TOWN ST	46+52, 21' RT		150		1																	
126	IC-3	TOWN ST	46+52, 21' RT	49+00, 19' RT	251	247				251														
TOWN ST. BETWEEN STA. 49+00 AND 54+00, INTS 1057 & 1059																								
127	IC-1	TOWN ST	49+00, 19' RT	49+64, 21' RT	65	64				65														
127	SE A-1	TOWN ST	49+64, 21' RT		150		1																	
127	IC-5	TOWN ST	49+64, 21' RT	49+85, 35' RT					1	25														
127	IC-2	TOWN ST	49+64, 21' RT	52+28, 26' RT	268	264				268														
127	TC-1	TOWN ST	49+85, 35' RT								2	1	1											
127	IC-3	TOWN ST	52+28, 26' RT	53+06, 34' LT	139					139														
127	TC-2	TOWN ST	52+29, 34' LT								2	1	1											
127	IC-6	TOWN ST	52+29, 34' LT	53+06, 34' LT					1															
127	SE A-2	TOWN ST	53+06, 34' LT		150		1																	
127	IC-4	TOWN ST	53+06, 34' LT	54+00, 26' LT	96					96														
SHEET TOTAL					6697	1184	3	1	2	5526	6	3	3	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

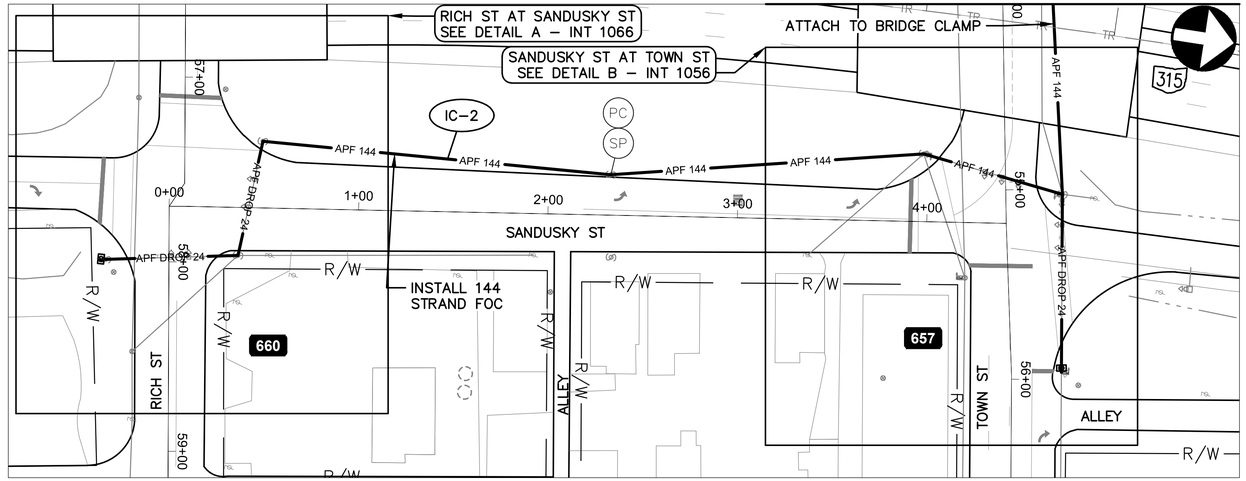
CIP: 540007–100005
PID NUMBER: 14522

TOWN ST. BTW 1+25 & 54+00
INTS 1058, 1059, 1057

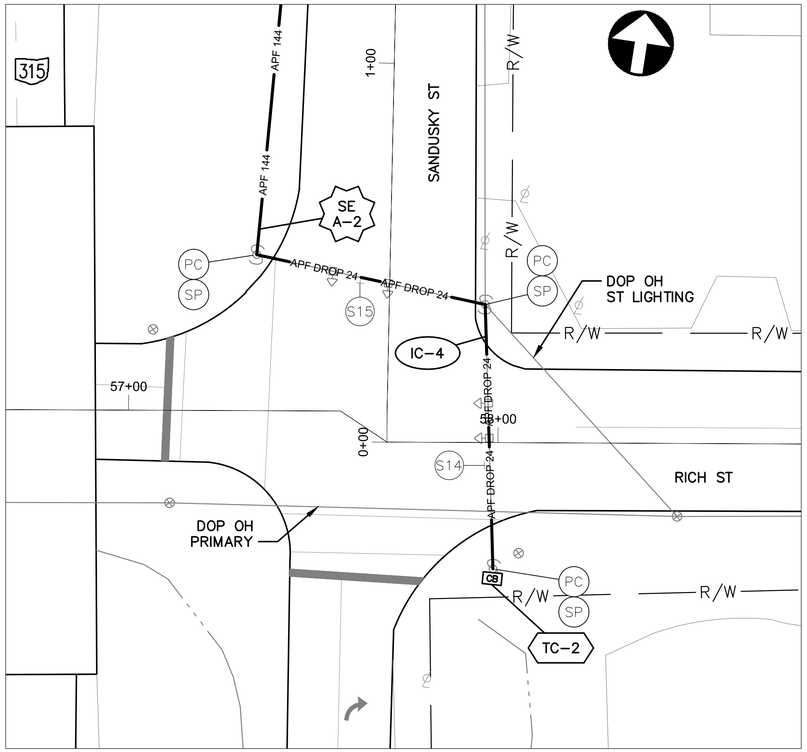
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

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MATCH LINE STA. 54+00, SEE SHEET 127

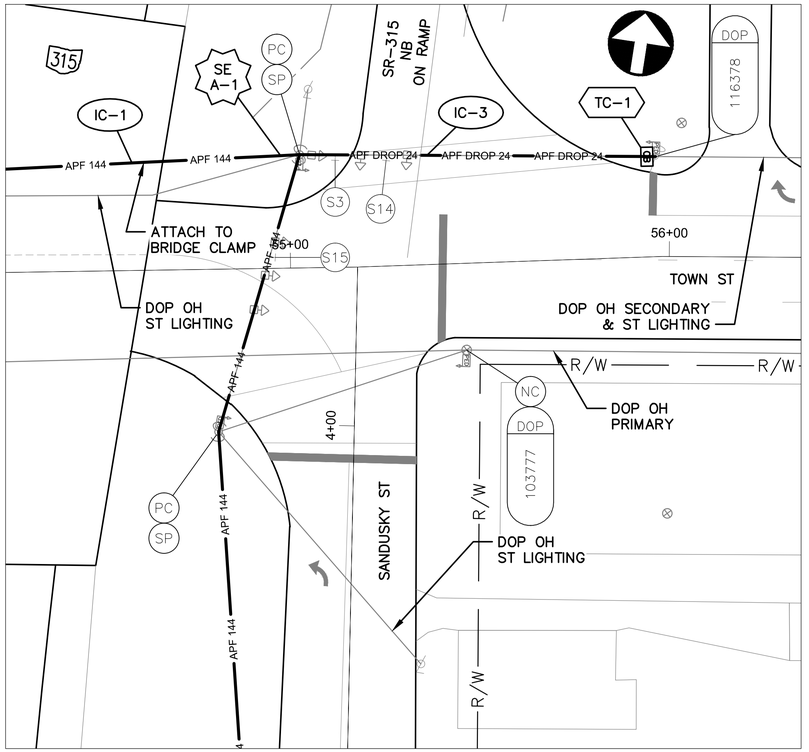


SANDUSKY ST BETWEEN STATION 0+00 to 4+42



DETAIL A - INT 1066

0 20 40
HORIZONTAL SCALE IN FEET



DETAIL B - INT 1056

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 130 FOR QUANTITIES.
2. SEE SHEETS 605, 675 & 676 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
SANDUSKY ST BETWEEN STA. 0+00 AND 4+42, INTS 1056 & 1066

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND FT	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER EACH	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE EACH	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES FT	632 SIGNALIZATION, MISC.: AERIAL CLAMP, ATTACHED TO BRIDGE EACH	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE EACH	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH EACH	633 CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER EACH
SANDUSKY ST. BETWEEN STA. 0+00 AND 4+42, INTS 1056 & 1066												
129	IC-1	TOWN ST	54+00, 26' LT	55+02, 30' LT	105			105	2			
129	SE A-1	TOWN ST	55+02, 30' LT		150	1						
129	IC-3	TOWN ST	55+02, 30' LT	55+97, 26' LT			1	94				
129	TC-1	TOWN ST	55+97, 26' LT							2	1	1
129	SE A-2	SANDUSKY ST	0+48, 35' LT		75	1						
129	IC-2	SANDUSKY ST	0+48, 35' LT	4+71, 16' LT	432			432				
129	IC-4	RICH ST	57+33, 41' RT	57+98, 33' RT			1	134				
129	TC-2	RICH ST	57+98, 33' RT							2	1	1
SHEET TOTAL					762	2	2	765	2	4	2	2

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

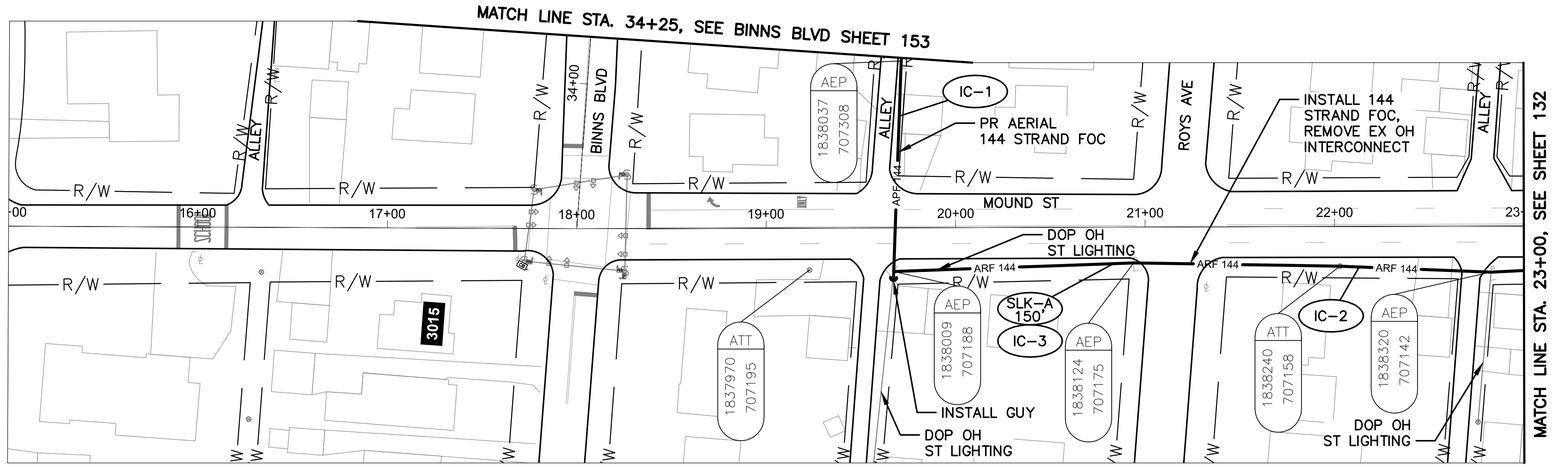
CIP: 540007–100005
PID NUMBER: 14522

SANDUSKY ST. BTW STA. 00+00 & 4+42
INTS 1056, 1066

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

130
911

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MOUND ST BETWEEN STATION 15+00 AND 23+00

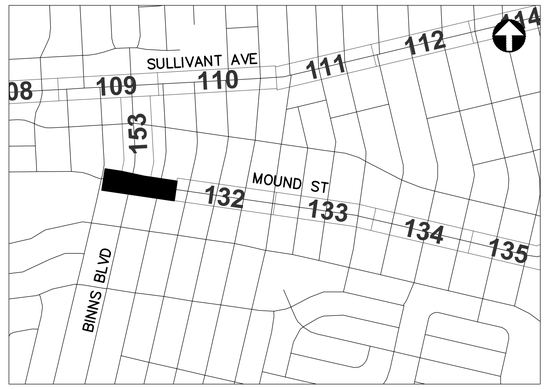
NOTES:

1. SEE SHEET 138 FOR QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

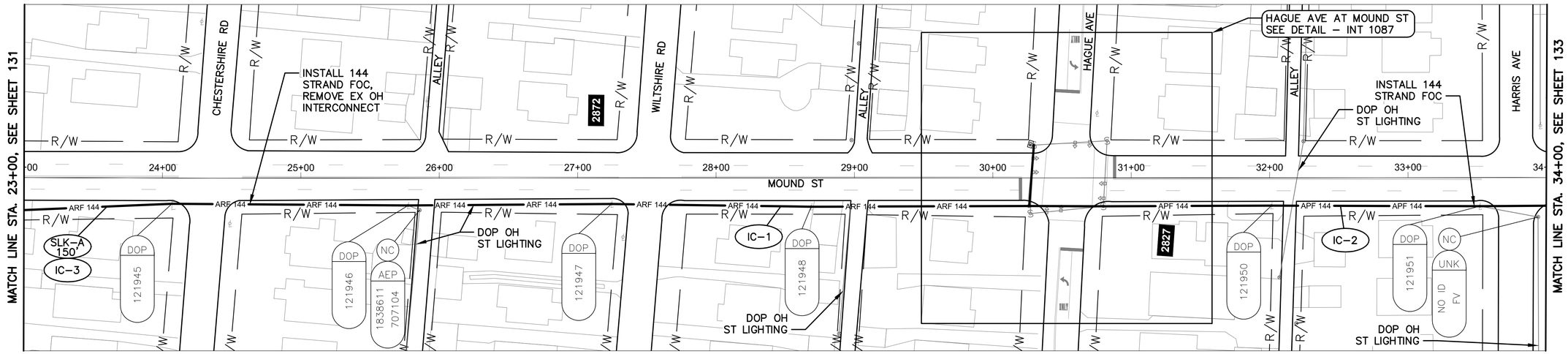
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PID NUMBER: 14522

INTERCONNECT PLAN
MOUND ST BETWEEN STA. 15+00 AND 23+00

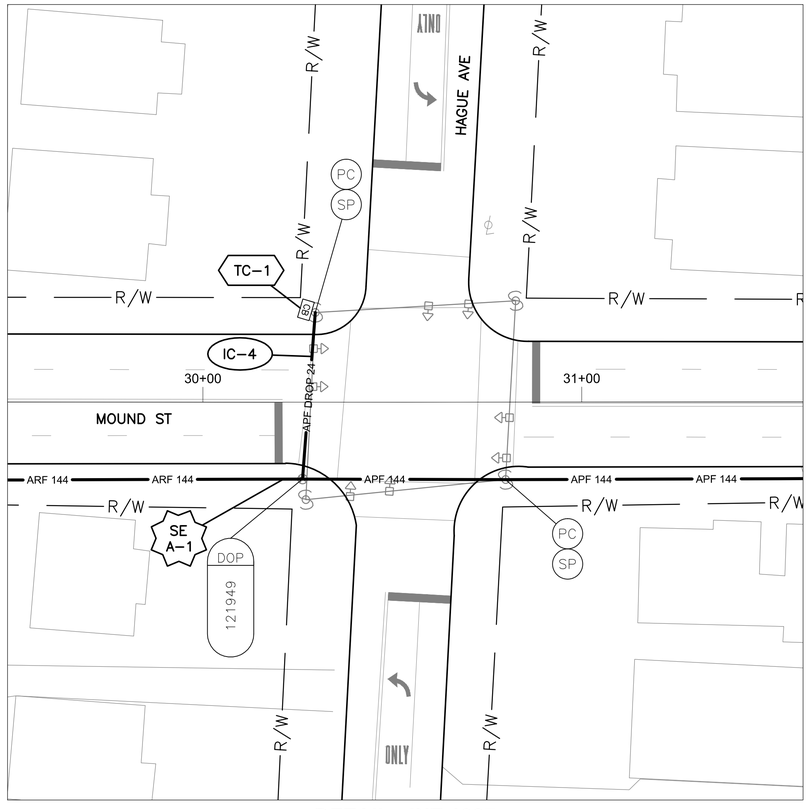
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

131
911

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MOUND ST BETWEEN STATION 23+00 AND 34+00



DETAIL - INT 1087

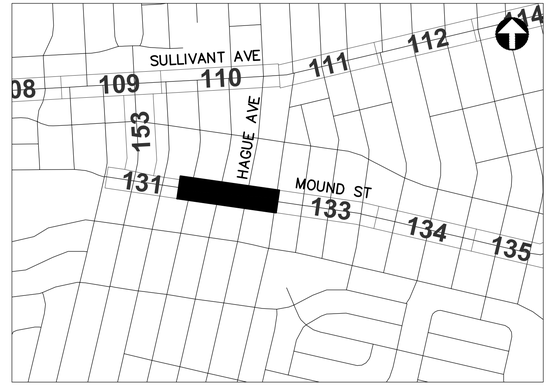
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 138 FOR QUANTITIES.
2. SEE SHEETS 604 & 714 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

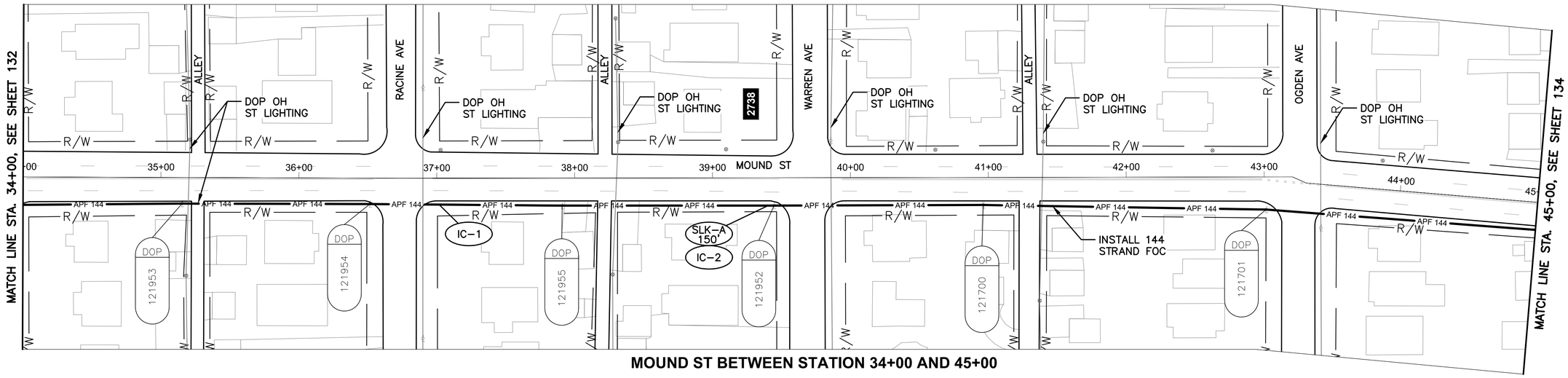
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
MOUND ST BETWEEN STA. 23+00 AND 34+00, INT 1087

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c – CONSTRUCTION AS–BUILT

132
911

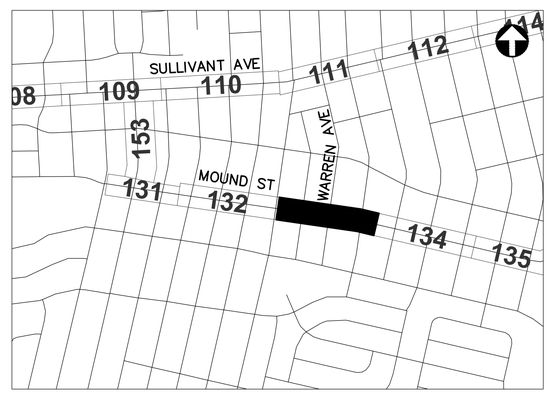
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MOUND ST BETWEEN STATION 34+00 AND 45+00

NOTES:

1. SEE SHEET 138 FOR QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

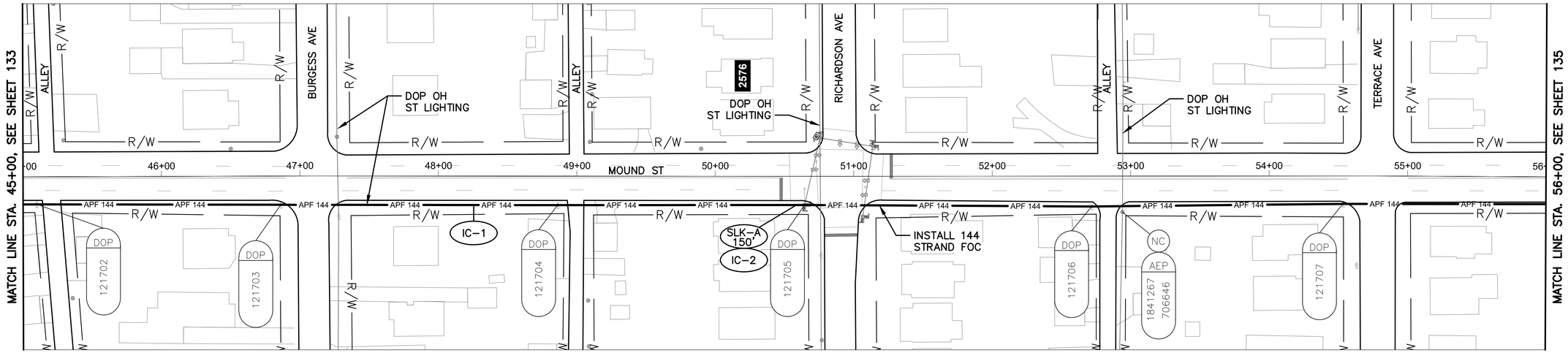
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PID NUMBER: 14522

INTERCONNECT PLAN
MOUND ST BETWEEN STA. 34+00 AND 45+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

133
911

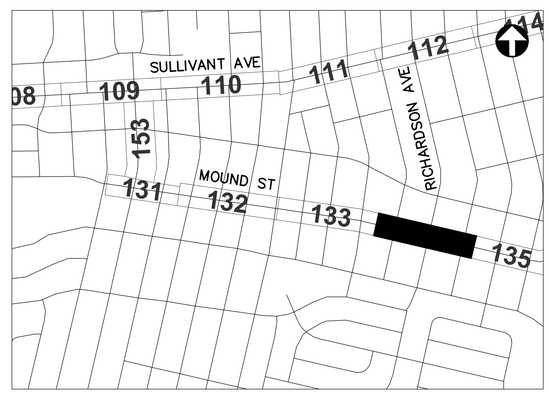
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MOUND ST BETWEEN STATION 45+00 AND 56+00

NOTES:

1. SEE SHEET 138 FOR QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

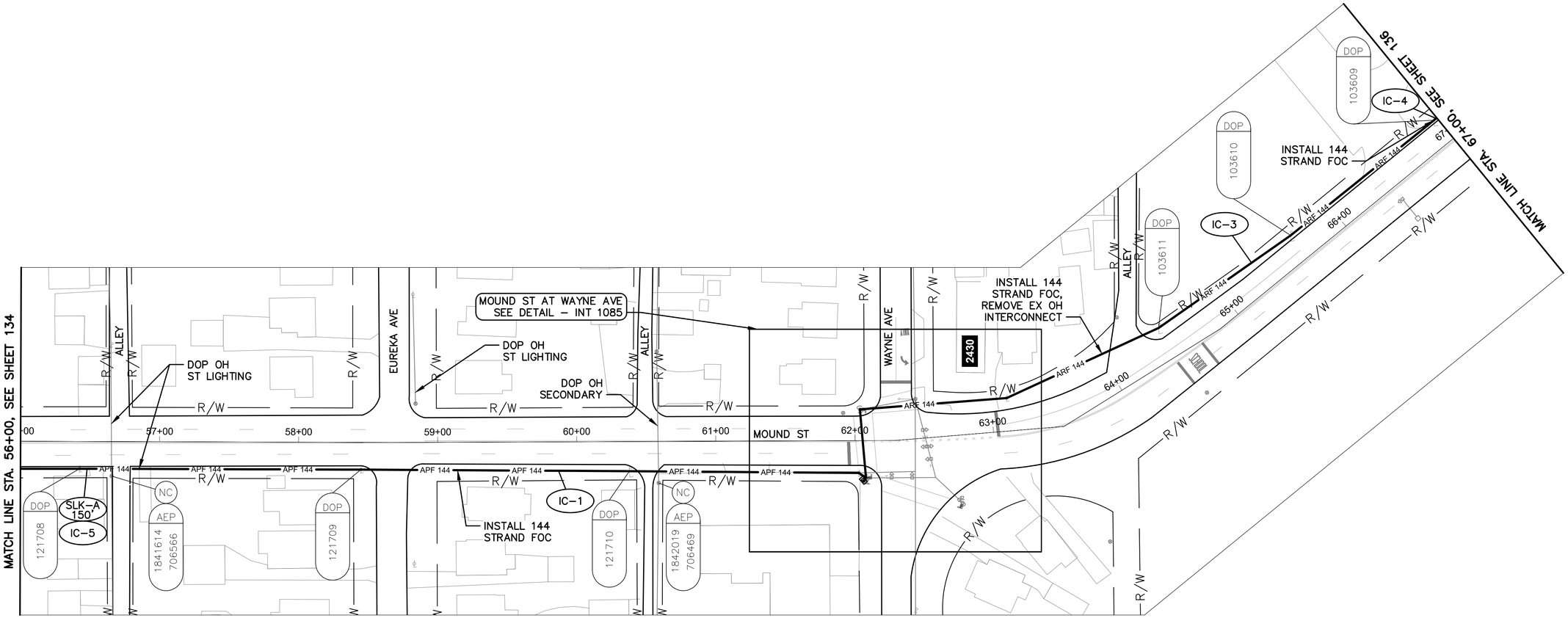
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INTERCONNECT PLAN
MOUND ST BETWEEN STA. 45+00 AND 56+00

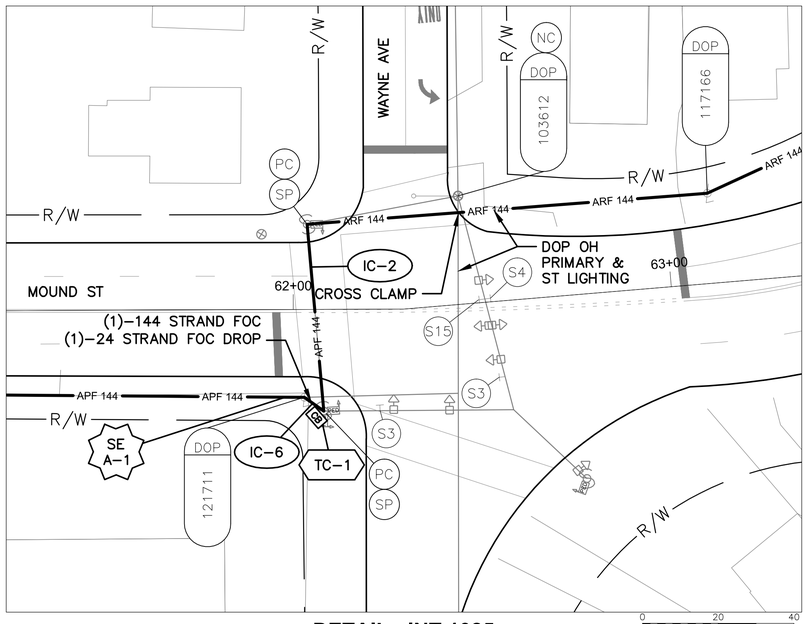
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

134
911

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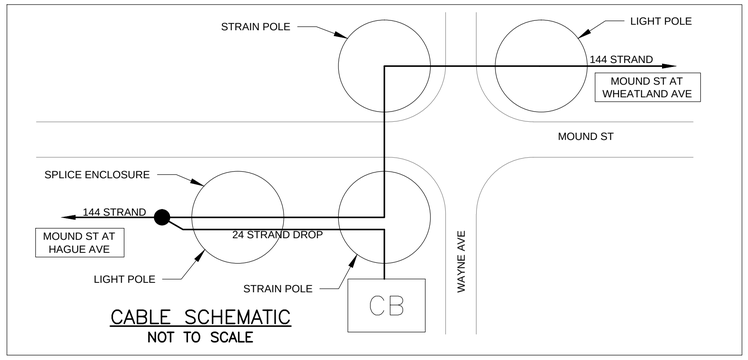


MOUND ST BETWEEN STATION 56+00 AND 67+00



DETAIL - INT 1085

0 20 40
HORIZONTAL
SCALE IN FEET



CABLE SCHEMATIC
NOT TO SCALE

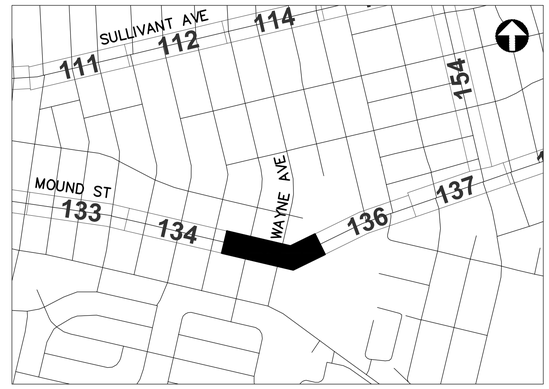
NOTES:

1. SEE SHEET 138 FOR QUANTITIES.
2. SEE SHEETS 604 & 715 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

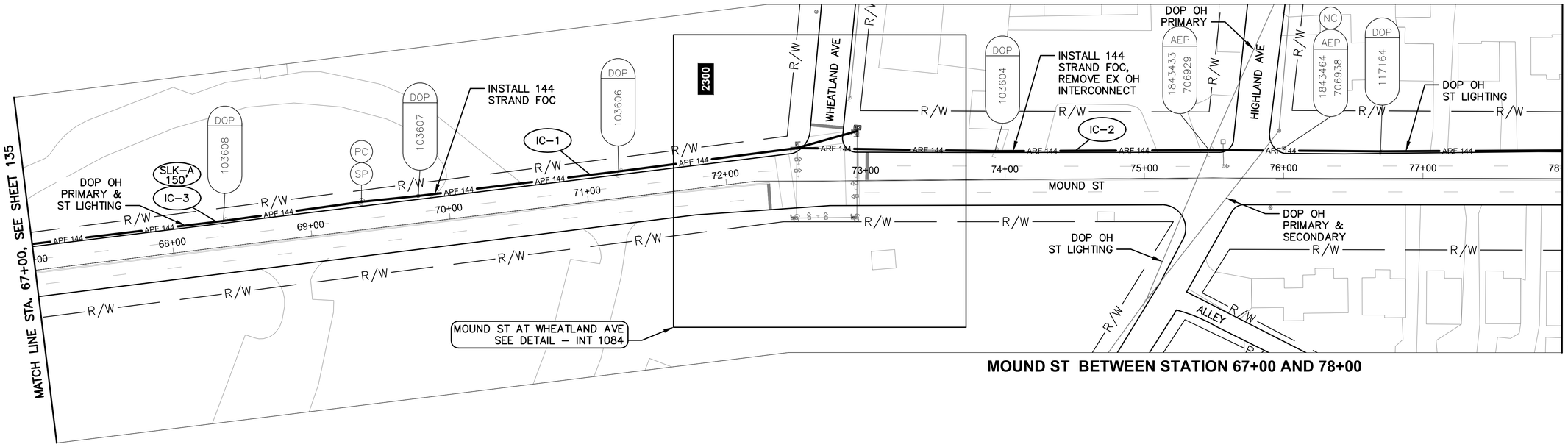
INTERCONNECT PLAN
MOUND ST BETWEEN STA. 56+00 AND 67+00, INT 1085

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

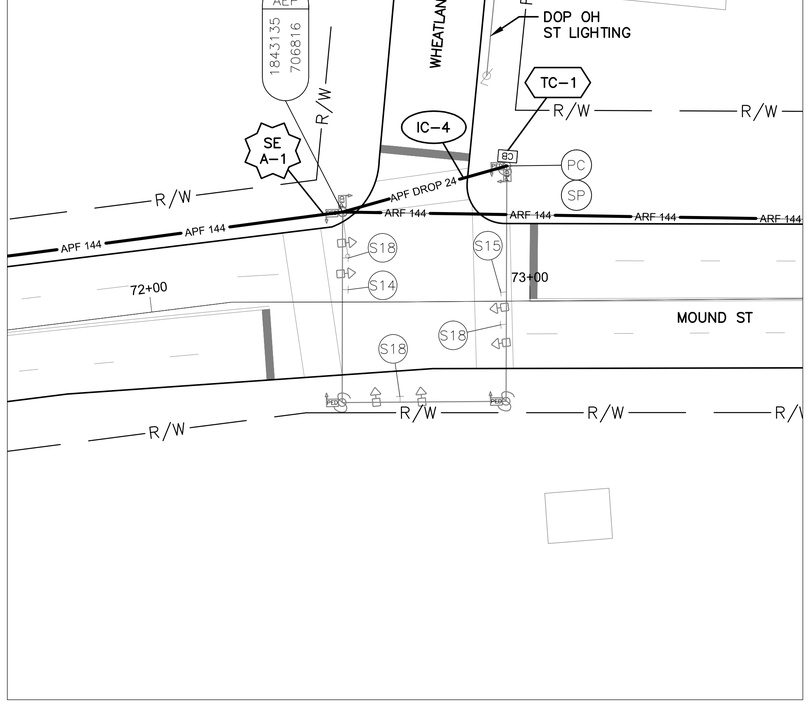
135
911

2953-E

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MOUND ST BETWEEN STATION 67+00 AND 78+00

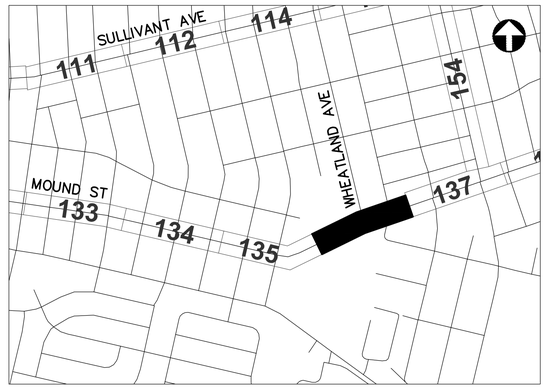


DETAIL - INT 1084

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 138 FOR QUANTITIES.
2. SEE SHEETS 604 & 716 FOR COMMUNICATION DETAILS.



REFER TO SHEET 6 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

UNDERGROUND UTILITIES
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

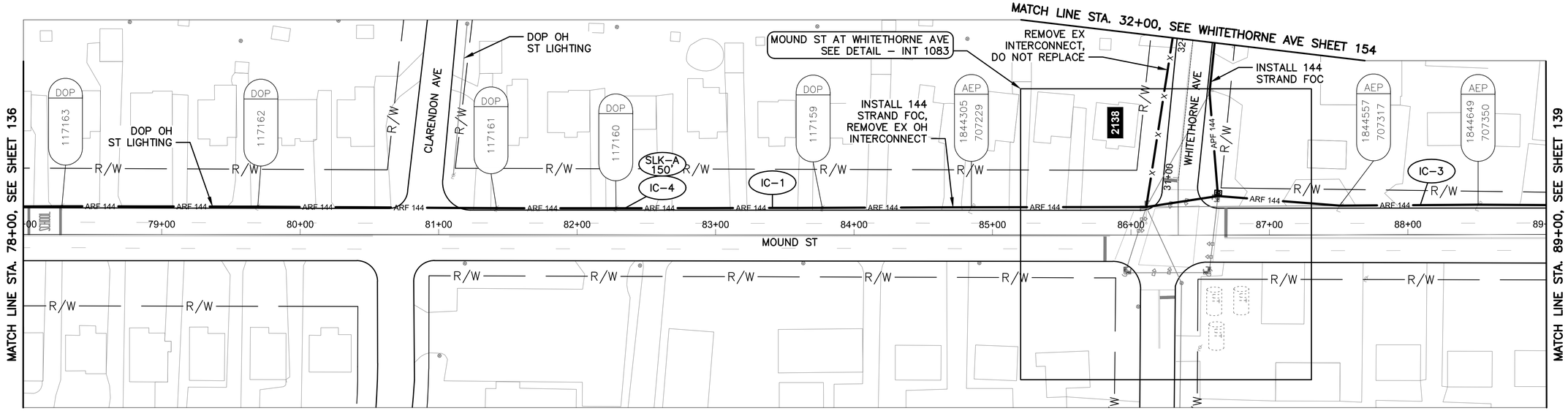
INTERCONNECT PLAN
MOUND ST BETWEEN STA. 67+00 AND 78+00, INT 1084

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

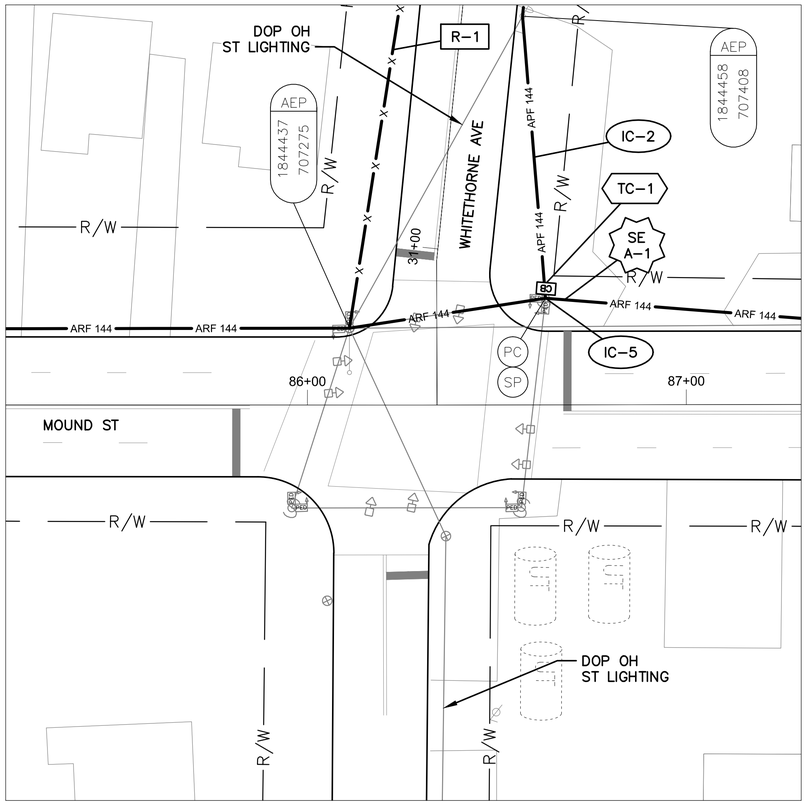
136
911

2953-E

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MOUND ST BETWEEN STATION 78+00 AND 89+00



DETAIL - INT 1083

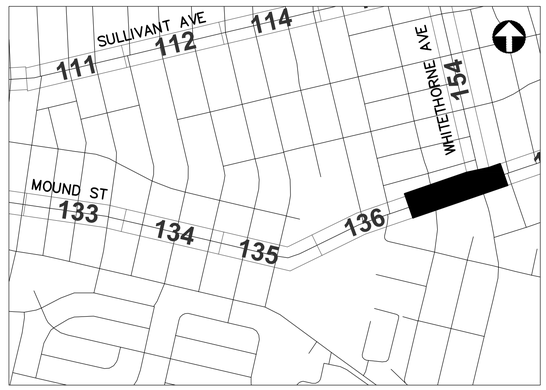
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 138 FOR QUANTITIES.
2. SEE SHEETS 604 & 717 FOR COMMUNICATION DETAILS.
3. FOR THE SPLICE ENCLOSURE AT INT 1083, PROVIDE 75' OF SLACK FROM ALL THREE DIRECTIONS FOR THE 225' TOTAL.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
MOUND ST BETWEEN STA. 78+00 AND 89+00, INT 1083

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

137
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	632 DOWN GUY EACH	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND FT	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT FT	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER EACH	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 FIBER EACH	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE EACH	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE EACH	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES FT	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE EACH	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH EACH	633 CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER EACH	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN EACH
MOUND ST. BETWEEN STA. 15+00 AND 23+00																
131	IC-1	MOUND ST	19+67, 23' RT	19+71, 90' LT		115						115				
131	IC-2	MOUND ST	19+67, 23' RT	23+00, 23' RT	1	338	333					338				
131	IC-3	MOUND ST	20+84, 19' RT			150										
MOUND ST. BETWEEN STA. 23+00 AND 34+00, INT 1087																
132	IC-1	MOUND ST	23+00, 23' RT	30+26, 20' RT		737	726					737				
132	IC-3	MOUND ST	25+72, 20' RT			150										
132	IC-4	MOUND ST	30+26, 20' RT	30+29, 24' LT							1	44				
132	SE A-1	MOUND ST	30+26, 20' RT			150		1								
132	IC-2	MOUND ST	30+26, 20' RT	34+00, 20' RT		380						380				
132	TC-1	MOUND ST	30+29, 24' LT										2	1	1	
MOUND ST. BETWEEN STA. 34+00 AND 45+00																
133	IC-1	MOUND ST	34+00, 20' RT	45+00, 20' RT		1117						1117				
133	IC-2	MOUND ST	39+40, 20' RT			150										
MOUND ST. BETWEEN STA. 45+00 AND 56+00																
134	IC-1	MOUND ST	45+00, 20' RT	56+00, 20' RT		1117						1117				
134	IC-2	MOUND ST	50+58, 21' RT			150										
MOUND ST. BETWEEN STA. 56+00 AND 67+00, INT 1085																
135	IC-1	MOUND ST	56+00, 20' RT	62+02, 23' RT		618						618				
135	IC-5	MOUND ST	56+47, 20' RT			150										
135	IC-2	MOUND ST	62+02, 23' RT	62+03, 22' LT		57						57				
135	SE A-1	MOUND ST	62+02, 23' RT			150		1								
135	IC-6	MOUND ST	62+02, 23' RT	62+07, 27' RT						1						
135	IC-3	MOUND ST	62+03, 22' LT	66+97, 19' LT		482	475					482				
135	TC-1	MOUND ST	62+07, 27' RT										2	1	1	
135	IC-4	MOUND ST	66+97, 19' LT	67+00, 19' LT		3						3				
MOUND ST. BETWEEN STA. 67+00 AND 78+00, INT 1084																
136	IC-1	MOUND ST	67+00, 19' LT	72+50, 24' LT		561						561				
136	IC-3	MOUND ST	68+33, 19' LT			150										
136	SE A-1	MOUND ST	72+50, 24' LT			150		1								
136	IC-4	MOUND ST	72+50, 24' LT	72+94, 36' LT							1	44				
136	IC-2	MOUND ST	72+50, 24' LT	78+00, 20' LT		558	550					558				
136	TC-1	MOUND ST	72+94, 36' LT										2	1	1	
MOUND ST. BETWEEN STA. 78+00 AND 89+00, INT 1083																
137	IC-1	MOUND ST	78+00, 20' LT	86+62, 28' LT		876	863					876				
137	IC-4	MOUND ST	82+34, 19' LT			150										
137	R-1	MOUND ST	86+11, 20' LT	86+30, 142' LT			124									
137	IC-2	MOUND ST	86+60, 139' LT	86+62, 28' LT		113						113				
137	SE A-1	MOUND ST	86+62, 28' LT			225			1							
137	IC-5	MOUND ST	86+62, 28' LT	86+62, 28' LT						2						
137	TC-1	MOUND ST	86+62, 28' LT										2	1		1
137	IC-3	MOUND ST	86+62, 28' LT	89+00, 21' LT		241	237					241				
SHEET TOTAL					1	9038	3308	3	1	3	2	7402	8	4	2	2

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

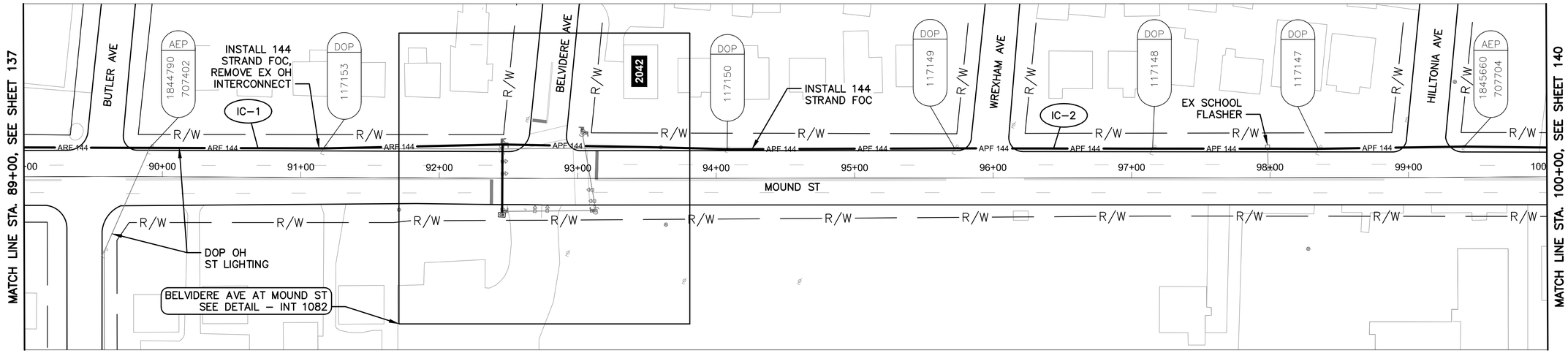
QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

CIP: 540007–100005
PID NUMBER: 14522

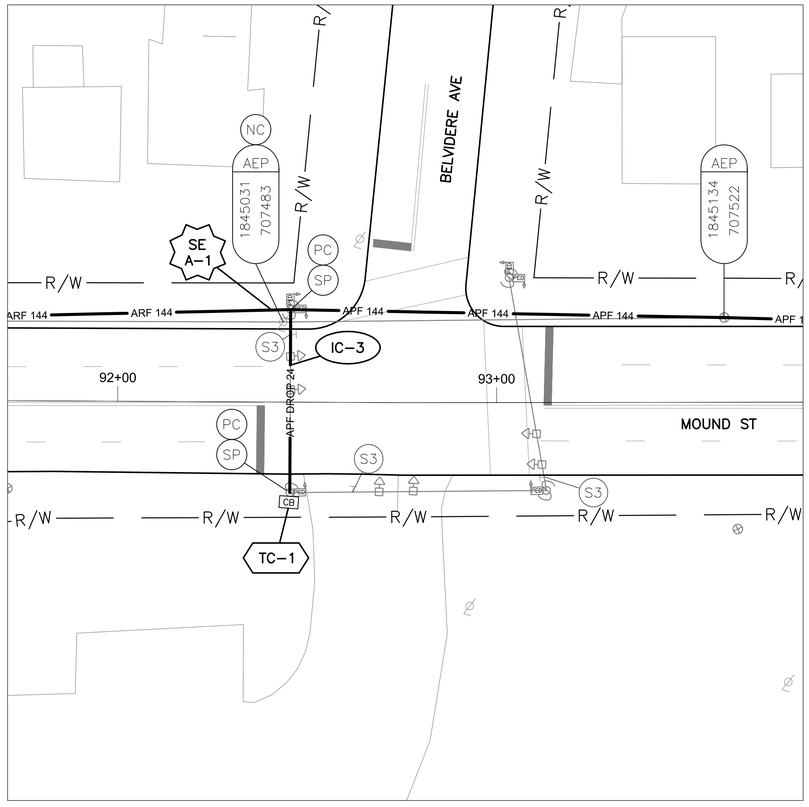
MOUND ST. BTW STA. 15+00 & 89+00
INTS 1087, 1085, 1084, 1083

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_MOUND_A_INTERCONNECT_QUANTITIES.dwg ~ MOUND_1 layout ~ last saved by: gburch 12/10/2014 12:47pm ~ printed 05/08/2017 08:15pm



MOUND ST BETWEEN STATION 89+00 AND 100+00



DETAIL - INT 1082

0 20 40

HORIZONTAL SCALE IN FEET

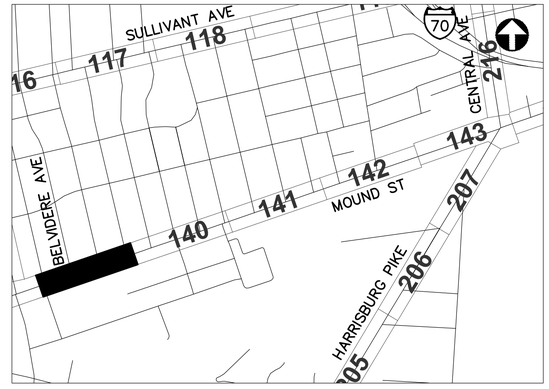
NOTES:

1. SEE SHEET 145 FOR QUANTITIES.
2. SEE SHEETS 604 & 718 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

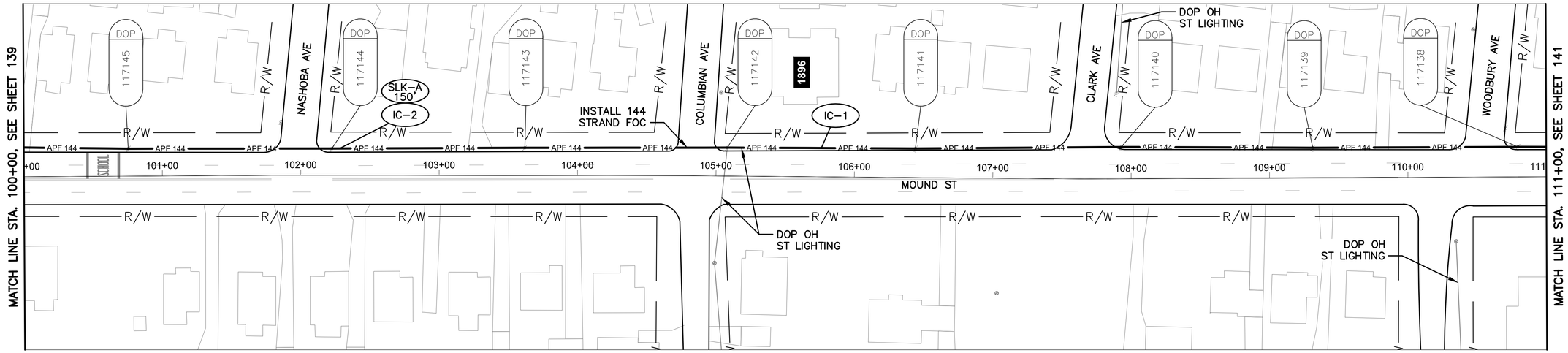
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PID NUMBER: 14522

INTERCONNECT PLAN
MOUND ST BETWEEN STA. 89+00 AND 100+00, INT 1082

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

139
911

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MOUND ST BETWEEN STATION 100+00 AND 111+00

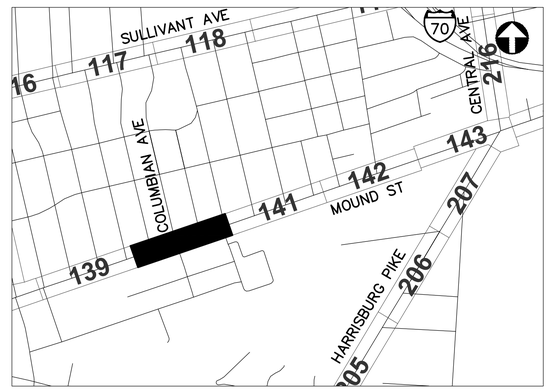
NOTES:

1. SEE SHEET 145 FOR QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

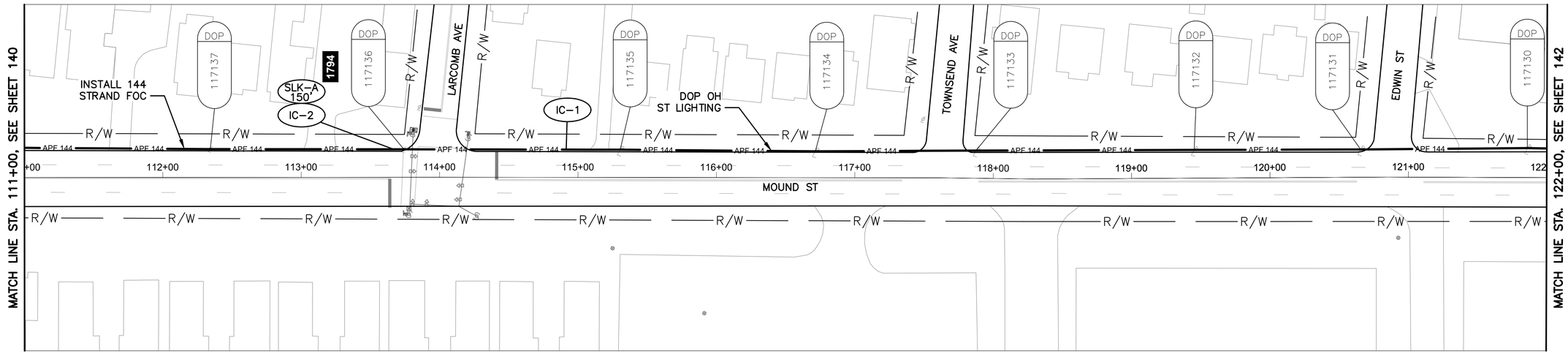
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
MOUND ST BETWEEN STA. 100+00 AND 111+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

140
911

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MOUND ST BETWEEN STATION 111+00 AND 122+00

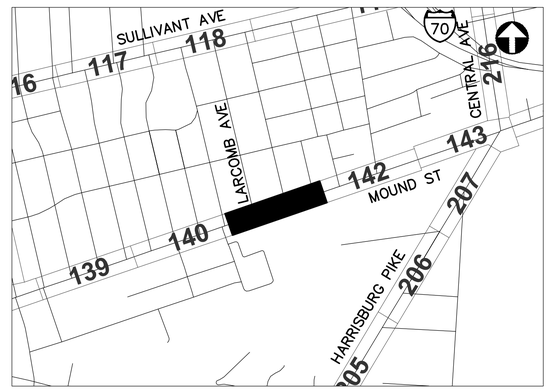
NOTES:

1. SEE SHEET 145 FOR QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

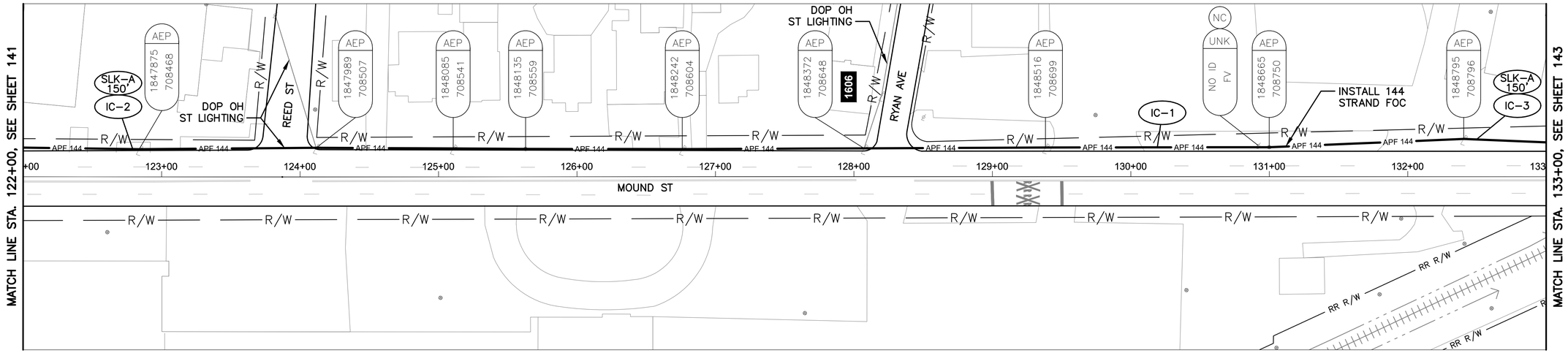
INTERCONNECT PLAN
MOUND ST BETWEEN STA. 111+00 AND 122+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

141
911

2953-E

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MOUND ST BETWEEN STATION 122+00 AND 133+00

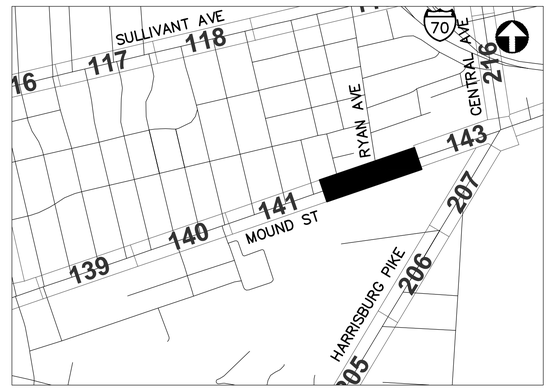
NOTES:

1. SEE SHEET 145 FOR QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

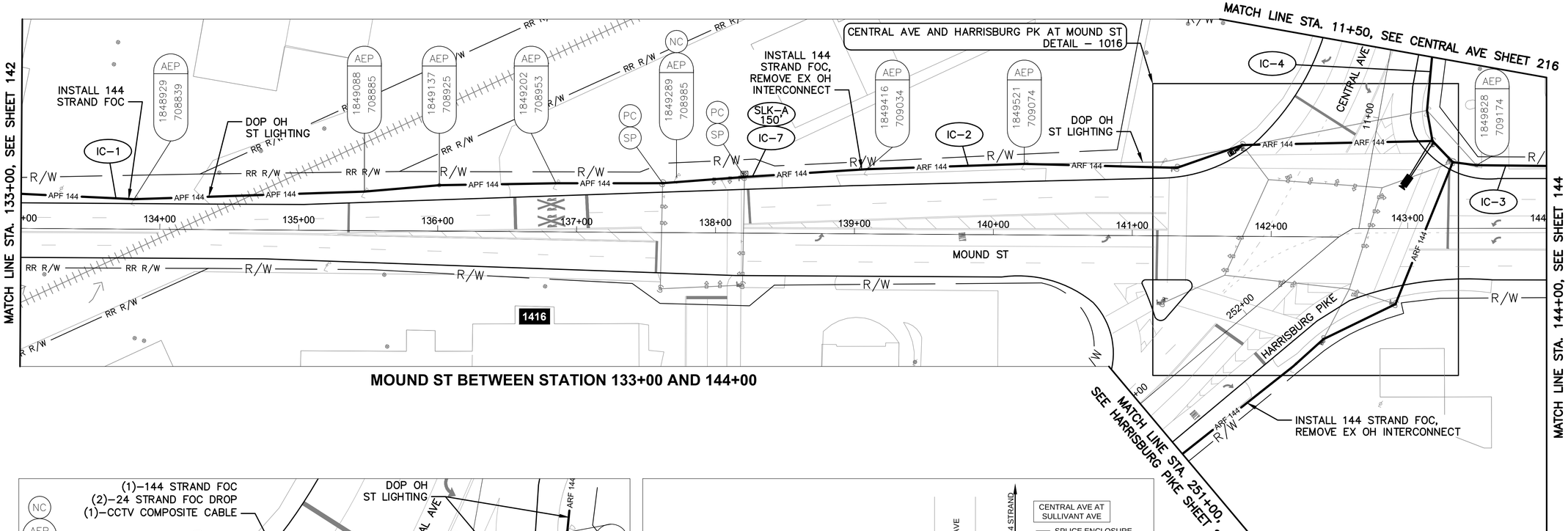
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
MOUND ST BETWEEN STA. 122+00 AND 133+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

142
911

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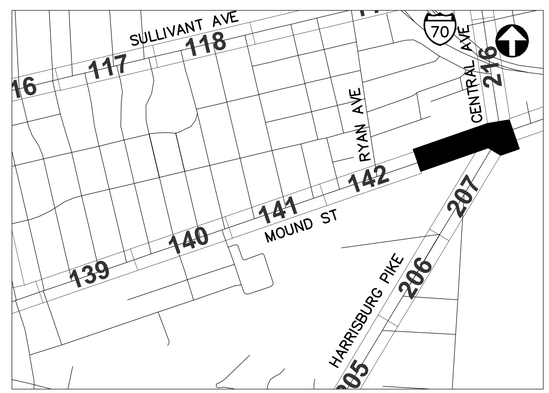
MOUND ST BETWEEN STATION 133+00 AND 144+00

DETAIL - INT 1016

CABLE SCHEMATIC
NOT TO SCALE

NOTES:

1. SEE SHEET 145 FOR QUANTITIES.
2. SEE SHEETS 604 & 684 FOR COMMUNICATION DETAILS.
3. FOR THE SPLICE ENCLOSURE AT INT 1016, PROVIDE 75' OF SLACK FROM ALL FOUR DIRECTIONS, WITH AN ADDITIONAL 150' INSTALLED AND STORED IN A SNOWSHOE LOCATED AT SE–A–1, STATION 143+17, 144SMF CABLE COMING FROM WEST, FOR THE 450' TOTAL.



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

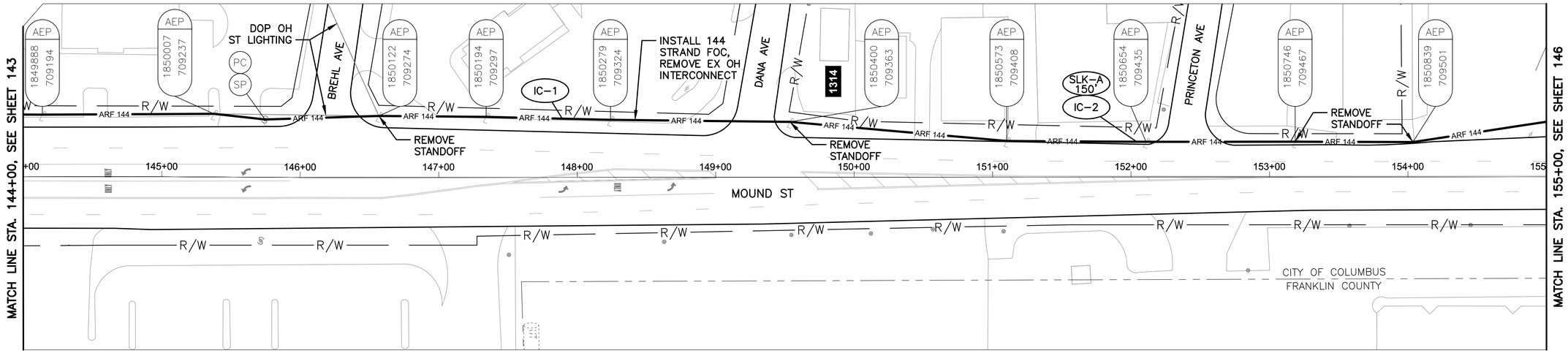
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
MOUND ST BETWEEN STA. 133+00 AND 144+00, INT 1016

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

143
911

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MOUND ST BETWEEN STATION 144+00 AND 155+00

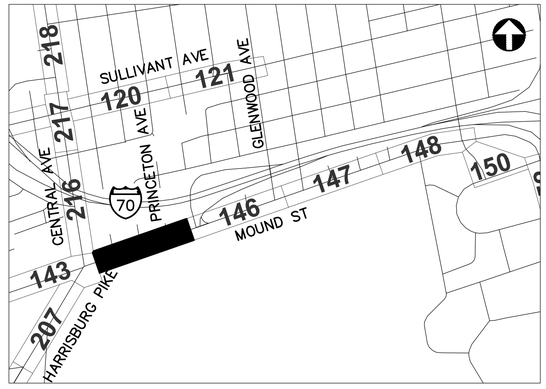
NOTES:

1. SEE SHEET 145 FOR QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
MOUND ST BETWEEN STA. 144+00 AND 155+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

144
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	202 EXISTING CONDUIT CLEANED, AS PER PLAN FT	625 BRACKET ARM, 30', AS PER PLAN EACH	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND FT	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT FT	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER EACH	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 FIBER EACH	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE EACH	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES FT	632 SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE FT	632 SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM EACH	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE EACH	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH EACH	633 CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER EACH	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN EACH
MOUND ST. BETWEEN STA. 89+00 AND 100+00, INT 1082																			
139	IC-1	MOUND ST	89+00, 21' LT	92+45, 24' LT			351	346				351							
139	SE A-1	MOUND ST	92+45, 24' LT				150		1										
139	IC-3	MOUND ST	92+45, 24' LT	92+45, 24' RT							1	49							
139	IC-2	MOUND ST	92+45, 24' LT	100+00, 21' LT			765					765							
139	TC-1	MOUND ST	92+45, 24' RT												2	1	1		
MOUND ST. BETWEEN STA. 100+00 AND 111+00																			
140	IC-1	MOUND ST	100+00, 21' LT	111+00, 21' LT			1117					1117							
140	IC-2	MOUND ST	102+28, 19' LT				150												
MOUND ST. BETWEEN STA. 111+00 AND 122+00																			
141	IC-1	MOUND ST	111+00, 21' LT	122+00, 21' LT			1117					1117							
141	IC-2	MOUND ST	113+66, 20' LT				150												
MOUND ST. BETWEEN STA. 122+00 AND 133+00																			
142	IC-1	MOUND ST	122+00, 21' LT	133+00, 25' LT			1117					1117							
142	IC-2	MOUND ST	122+79, 20' LT				150												
142	IC-3	MOUND ST	132+49, 27' LT				150												
MOUND ST. BETWEEN STA. 133+00 AND 144+00, INT 1016																			
143	IC-1	MOUND ST	133+00, 25' LT	138+20, 40' LT			529					529							
143	IC-7	MOUND ST	138+20, 40' LT				150												
143	IC-2	MOUND ST	138+20, 40' LT	143+17, 63' LT			505	498				505							
143	IC-5	MOUND ST	141+37, 157' RT	143+32, 48' LT			303	299				303							
143	TC-1	MOUND ST	141+71, 60' LT										10		4	1		1	
143	IC-9	MOUND ST	141+71, 60' LT	141+78, 66' LT	9														
143	EC-4	MOUND ST	141+71, 60' LT	141+78, 66' LT									9						
143	IC-8	MOUND ST	141+71, 60' LT	143+17, 63' LT							2								
143	EC-3	MOUND ST	141+78, 66' LT										35						
143	EC-1	MOUND ST	141+78, 66' LT	143+01, 38' LT									167						
143	CTV-1	MOUND ST	143+01, 38' LT											1					
143	IC-4	MOUND ST	143+17, 123' LT	143+17, 63' LT			62	61				62							
143	SE A-1	MOUND ST	143+17, 63' LT				450		1										
143	EC-2	MOUND ST	143+17, 63' LT							1									
143	IC-6	MOUND ST	143+17, 63' LT	143+32, 48' LT			20												
143	IC-3	MOUND ST	143+17, 63' LT	144+00, 45' LT			90	89				90							
MOUND ST. BETWEEN STA. 144+00 AND 155+00																			
144	IC-1	MOUND ST	144+00, 45' LT	155+00, 42' LT			1119	1102				1119							
144	IC-2	MOUND ST	152+04, 25' LT				150												
SHEET TOTAL					9	1	8595	2395	1	1	3	7124	221	1	6	2	1	1	-

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

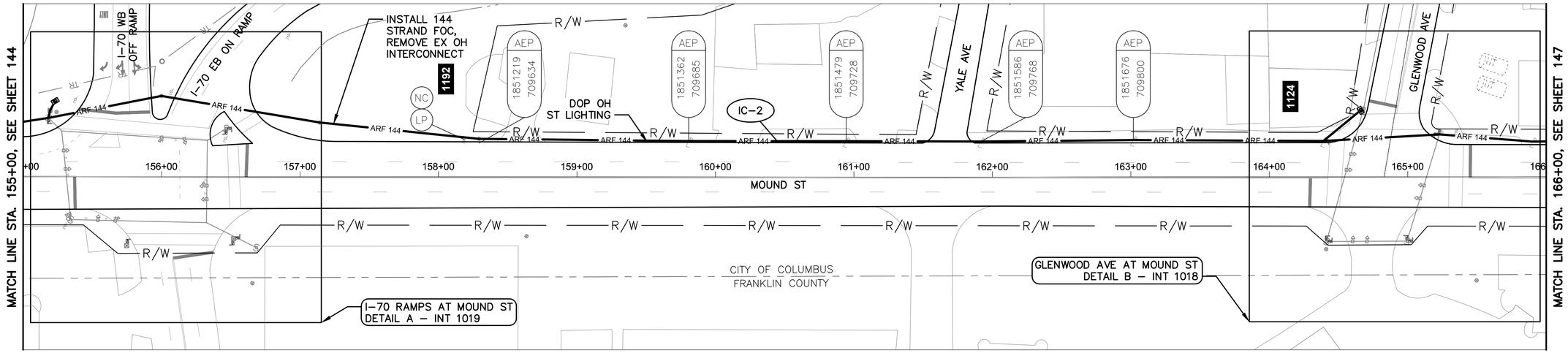
CIP: 540007–100005
PID NUMBER: 14522

MOUND ST. BTW STA. 89+00 & 155+00
INTS 1082, 1016

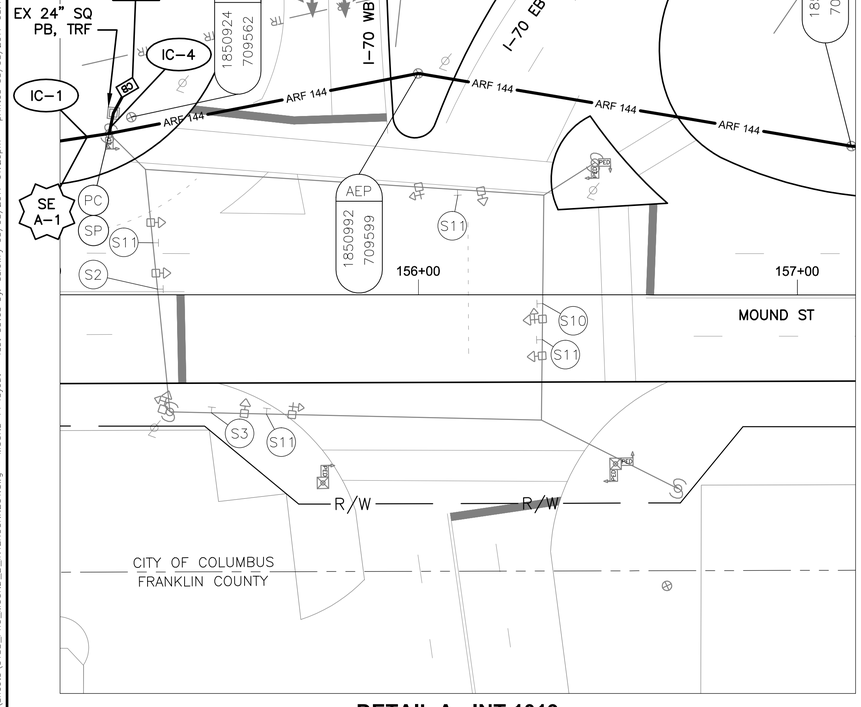
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c – CONSTRUCTION AS–BUILT

145
911

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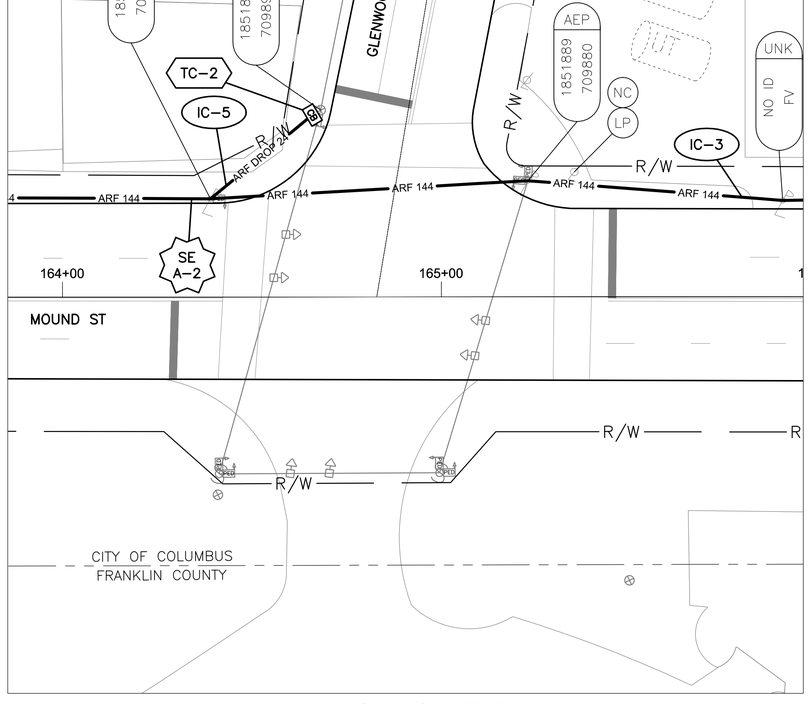


MOUND ST BETWEEN STATION 155+00 AND 166+00



DETAIL A - INT 1019

0 20 40
HORIZONTAL SCALE IN FEET



DETAIL B - INT 1018

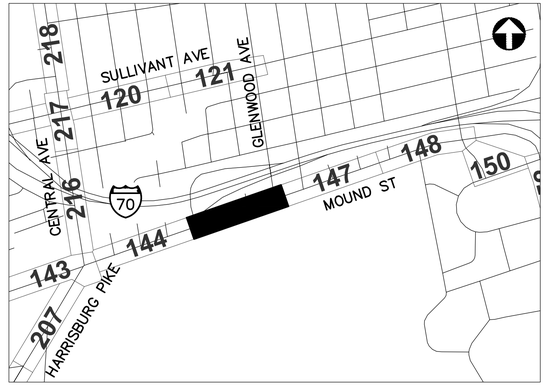
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 149 FOR QUANTITIES.
2. SEE SHEETS 604, 719 & 720 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.
4. AN ADDITIONAL 150' OF SLACK IS QUANTIFIED AT INT 1018 FOR FUTURE DoT USE.
5. AN ADDITIONAL 150' OF SLACK IS QUANTIFIED AT INT 1019 FOR FUTURE ODOT USE.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

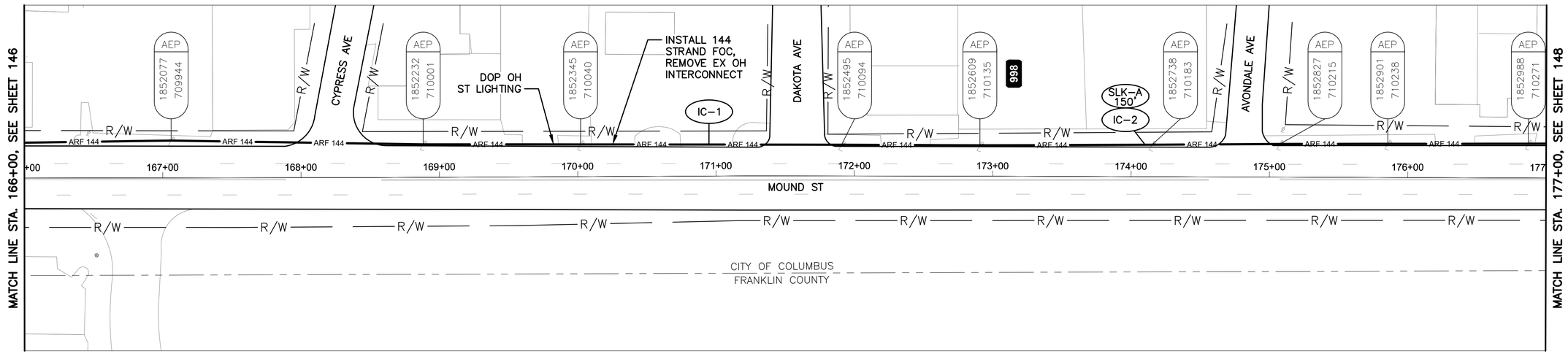
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
MOUND ST BETWEEN STA. 155+00 AND 166+00, INTS 1018 & 1019

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c – CONSTRUCTION AS-BUILT

146
911

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MOUND ST BETWEEN STATION 166+00 AND 177+00

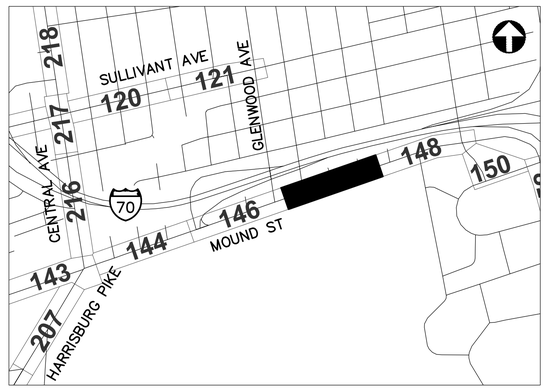
NOTES:

1. SEE SHEET 149 FOR QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100005
PID NUMBER: 14522

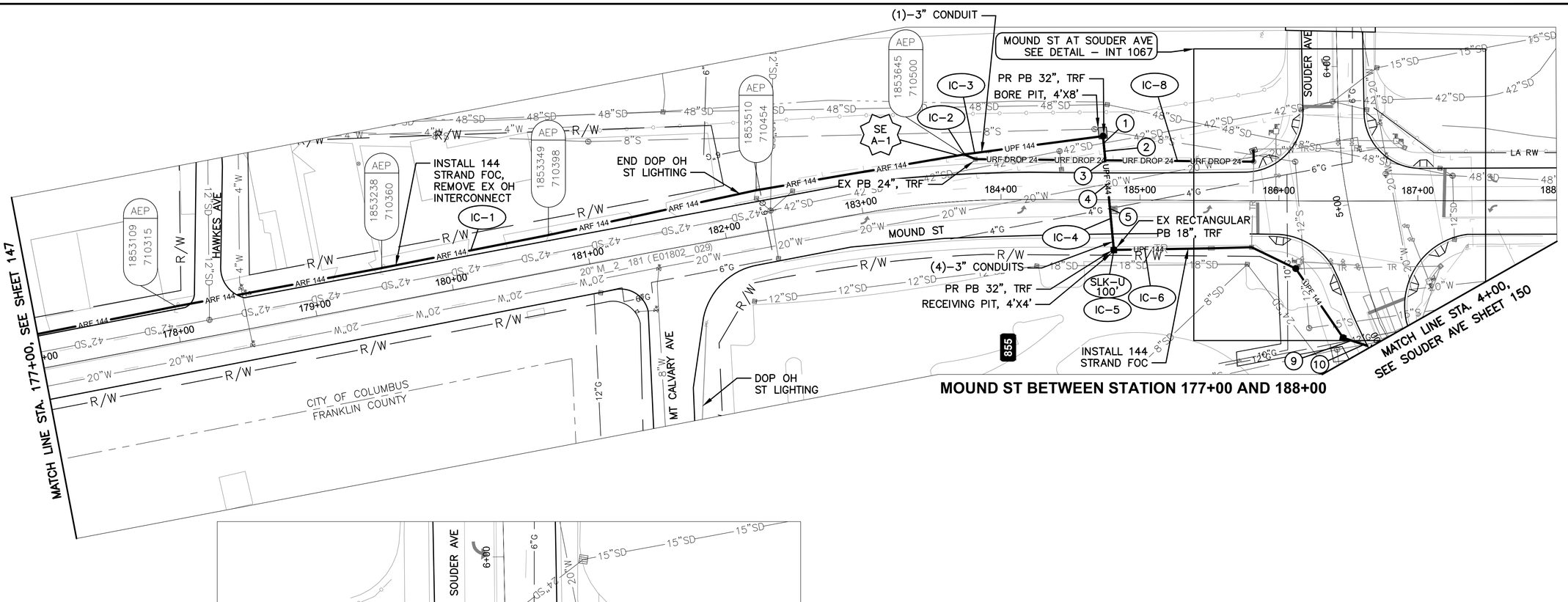
INTERCONNECT PLAN
MOUND ST BETWEEN STA. 166+00 AND 177+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

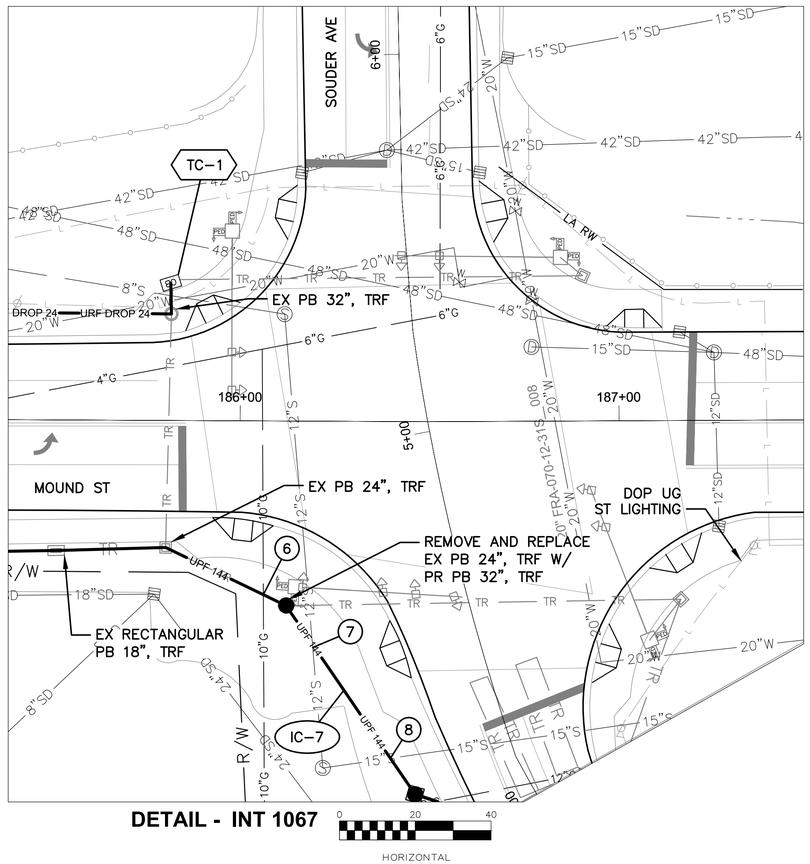
147
911

2953-E

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MOUND ST BETWEEN STATION 177+00 AND 188+00



DETAIL - INT 1067

HORIZONTAL SCALE IN FEET

NOTES:

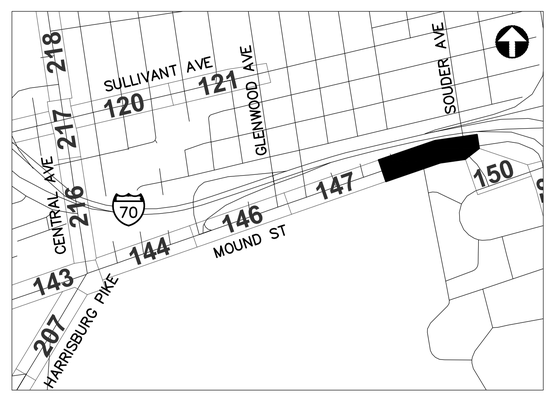
1. SEE SHEET 149 FOR QUANTITIES.
2. SEE SHEETS 604 & 721 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.
4. SEE SHEET 16 FOR SIDEWALK REPLACEMENT DETAILS.
5. EXPOSE EXISTING CONDUIT RUN ON SOUTH SIDE OF MOUND ST AND PLACE NEW CONDUIT ADJACENT TO EXISTING CONDUITS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 12.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☒ SEWER
- ☒ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
MOUND ST BETWEEN STA. 177+00 AND 188+00, INT 1067

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

148
911

2953-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	625	625	632	632	632	632	632	632	632	632	632	633	633	633	633
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, 2", AS PER PLAN	CONDUIT, 3", AS PER PLAN	CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	PULL BOX, 32", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT RISER, 3", 725.04, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 450FT DROP CABLE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN
			FROM	TO	FT	FT	FT	FT	FT	EACH	FT	EACH	FT	FT	FT	FT	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH
MOUND ST. BETWEEN STA. 155+00 AND 166+00, INTS 1019 & 1018																									
146	IC-1	MOUND ST	155+00, 42' LT	155+24, 47' LT									25		25						25				
146	TC-1	MOUND ST	155+23, 55' LT																			3	1		1
146	IC-4	MOUND ST	155+23, 55' LT	155+24, 47' LT	8											8		1							
146	SE A-1	MOUND ST	155+24, 47' LT										150	150			1								
146	IC-2	MOUND ST	155+24, 47' LT	164+39, 26' LT									932		918						932				
146	SE A-2	MOUND ST	164+39, 26' LT										300				1								
146	IC-5	MOUND ST	164+39, 26' LT	164+68, 49' LT											35				1		35				
146	IC-3	MOUND ST	164+39, 26' LT	166+00, 26' LT									163		161						163				
146	TC-2	MOUND ST	164+68, 49' LT																			2	1		1
MOUND ST. BETWEEN STA. 166+00 AND 177+00																									
147	IC-1	MOUND ST	166+00, 26' LT	177+00, 25' LT									1117		1100						1117				
147	IC-2	MOUND ST	174+10, 23' LT										150												
MOUND ST. BETWEEN STA. 177+00 AND 188+00, INT 1067																									
148	IC-1	MOUND ST	177+00, 25' LT	183+75, 33' LT									689		679						689				
148	IC-2	MOUND ST	183+75, 33' LT									2	35												
148	SE A-1	MOUND ST	183+75, 33' LT										150				1								
148	IC-3	MOUND ST	183+75, 33' LT	183+93, 37' LT		40					20		20												
148	IC-8	MOUND ST	183+75, 33' LT	185+81, 37' LT	217															1					
148	IC-4	MOUND ST	183+93, 40' RT	184+67, 37' RT					428	1			107												
148	IC-5	MOUND ST	184+67, 37' RT							1			100												
148	IC-6	MOUND ST	184+67, 37' RT	186+12, 49' RT			149				149		149												
148	TC-1	MOUND ST	185+81, 37' LT																			2	1	1	
148	IC-7	MOUND ST	186+12, 49' RT	186+52, 112' RT				76			76		76												
SHEET TOTAL					225	40	149	76	428	2	245	2	4163	150	2918	8	3	1	1	1	2961	7	3	1	2

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

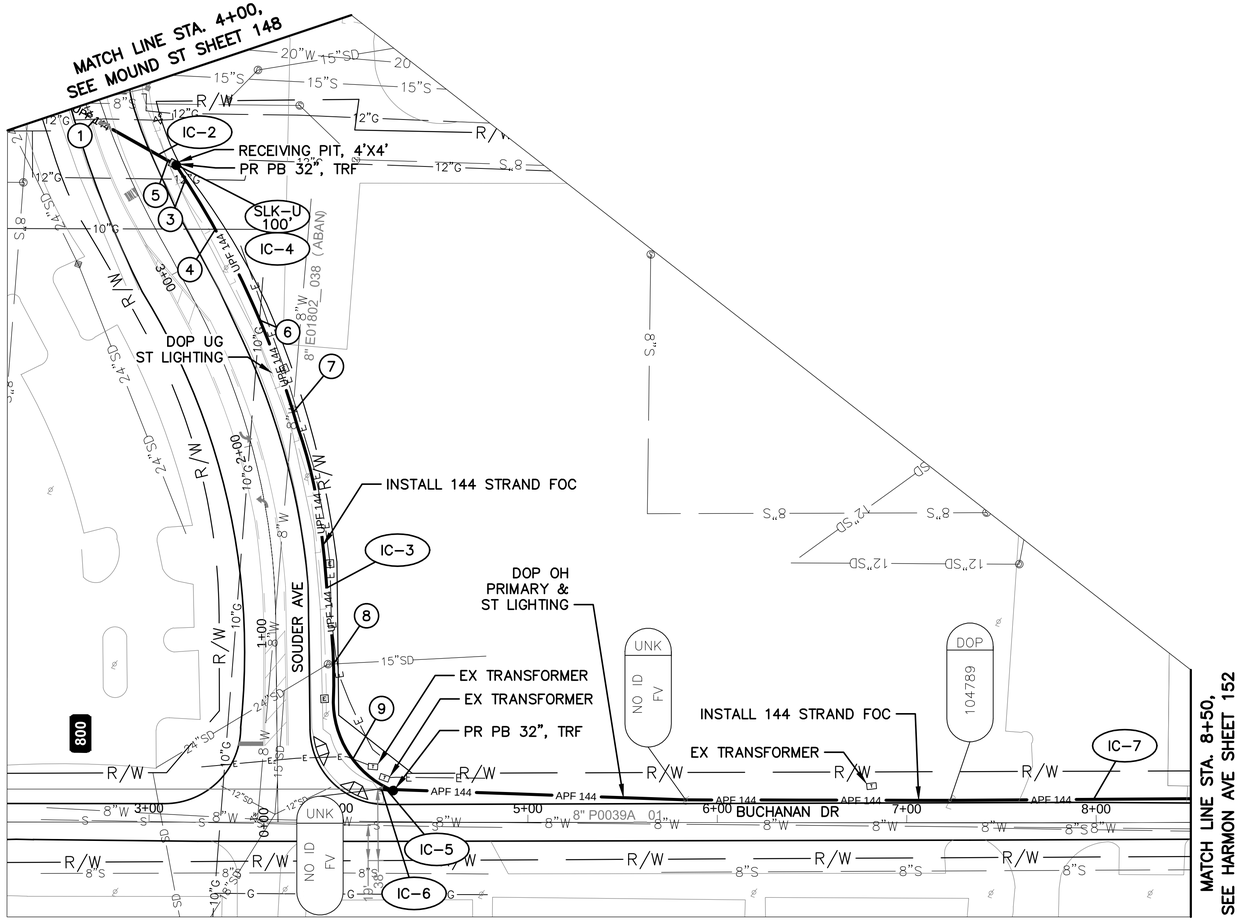
CIP: 540007–100005
PID NUMBER: 14522

MOUND ST. BTW STA. 155+00 & 188+00
INTS 1019, 1018, 1067

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

149
911

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BUCHANAN DR BETWEEN STATION 2+25 AND 8+50

NOTES:

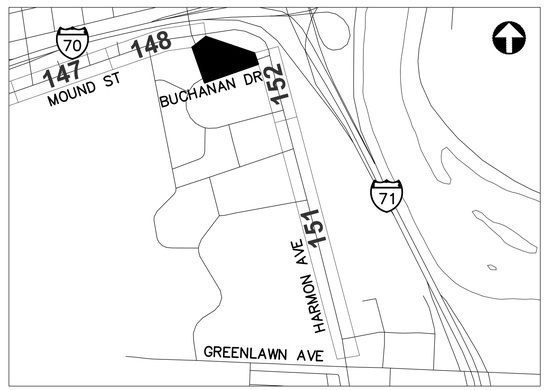
1. SEE SHEET 155 FOR QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.
3. SEE SHEET 19 FOR TRENCH IN PAVEMENT NOTES.
4. THE 8" WATER LINE RUNNING NORTH/SOUTH ALONG SOUDER AVE WAS ABANDONED AS PART OF THE MOUND ST – SOUDER AVE INTERSECTION IMPROVEMENT PROJECT, 1802 DR. E.
5. SEE SHEET 16 FOR SIDEWALK REPLACEMENT DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 12.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

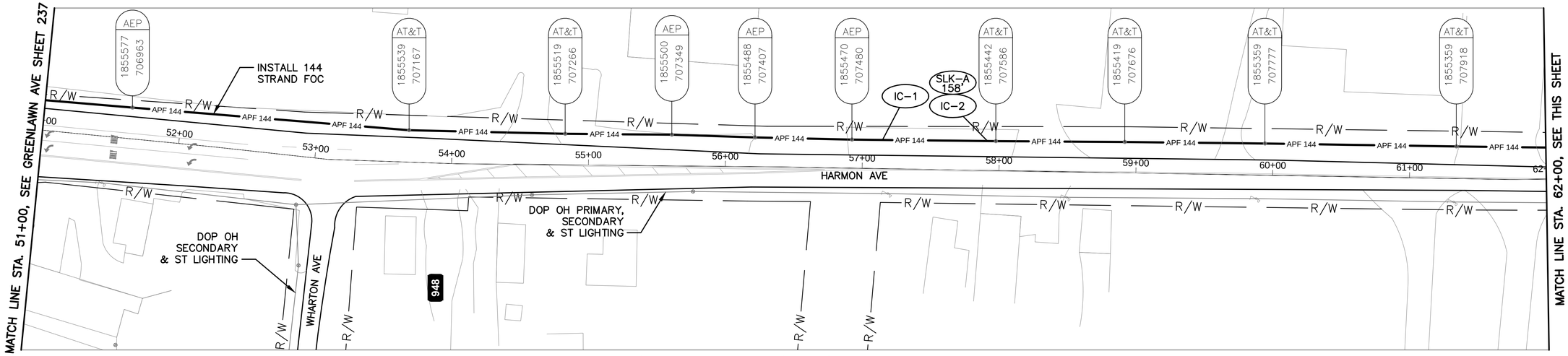
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PID NUMBER: 14522

INTERCONNECT PLAN
BUCHANAN DR BETWEEN STA. 2+25 AND 8+50

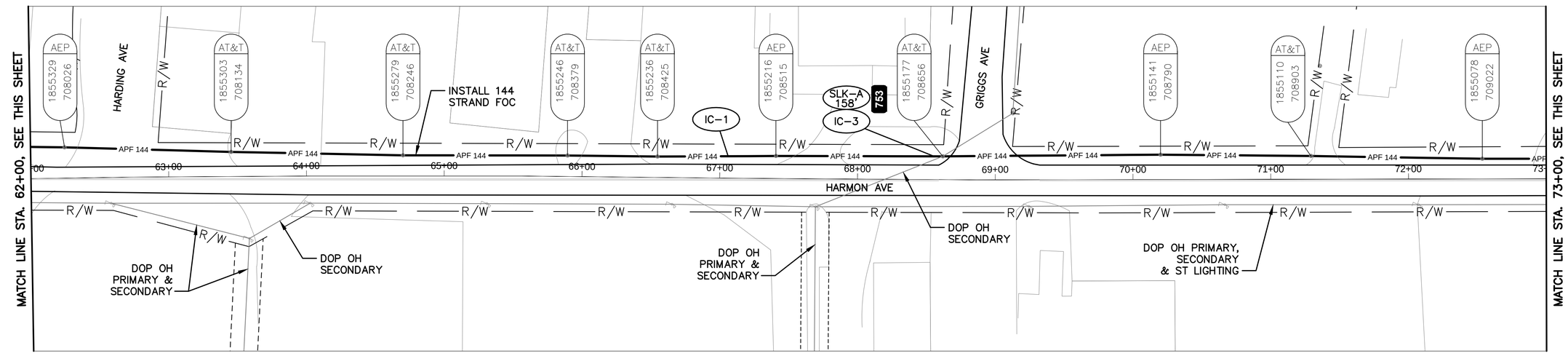
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

150
911

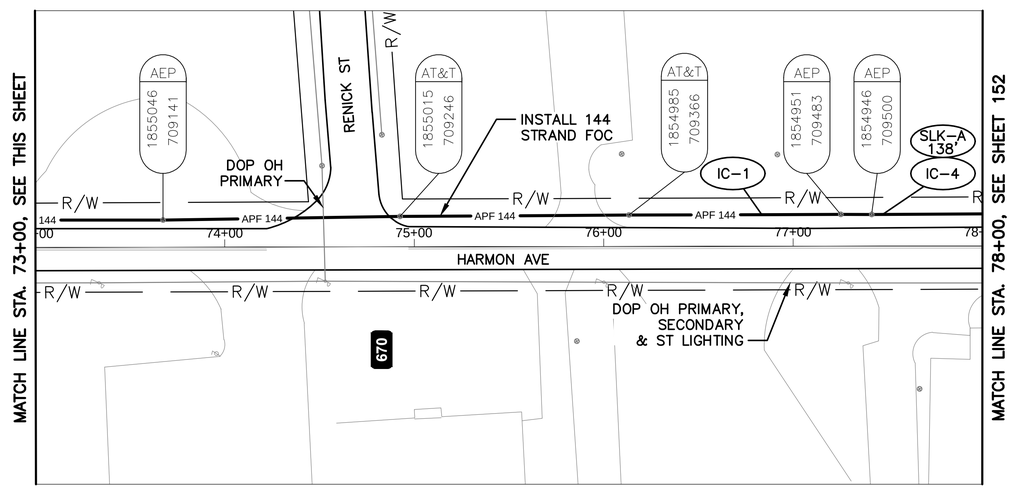
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HARMON AVE BETWEEN STATION 51+00 AND 62+00



HARMON AVE BETWEEN STATION 62+00 AND 73+00



HARMON AVE BETWEEN STATION 73+00 AND 78+00

NOTES:

1. SEE SHEET 155 FOR QUANTITIES.
2. SEE SHEET 607 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

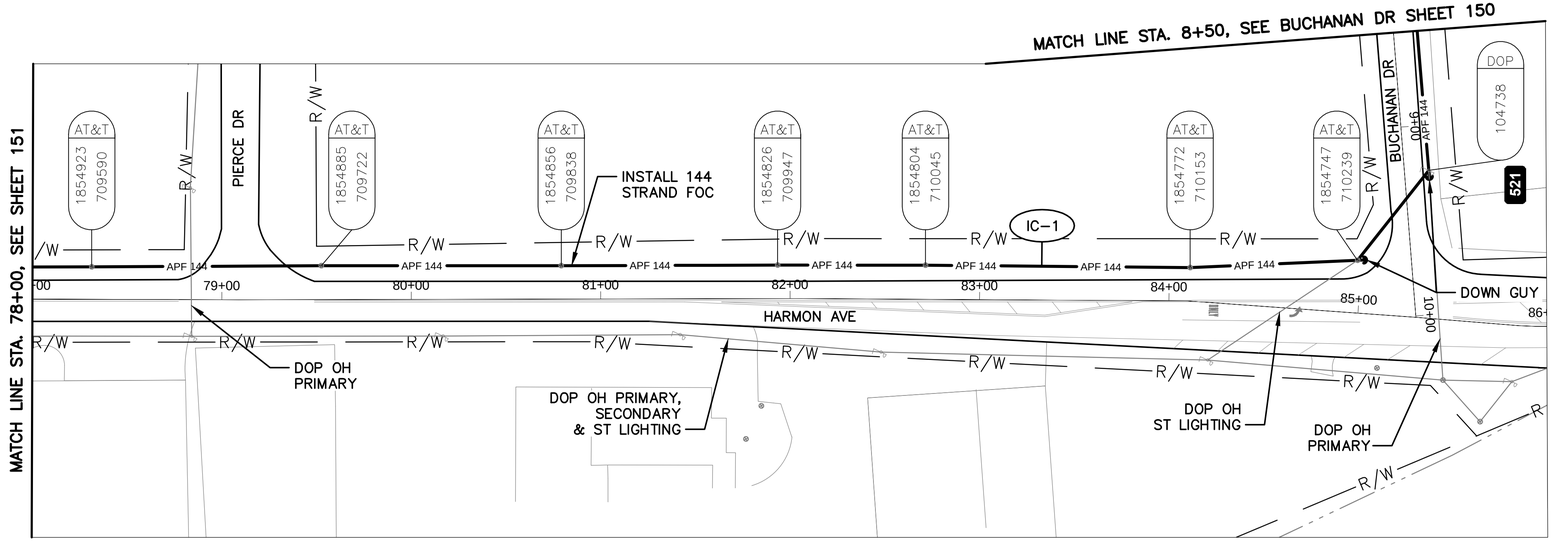
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
HARMON AVE BETWEEN STA. 51+00 AND 78+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

151
911

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HARMON AVE BETWEEN STATION 78+00 AND 86+00

NOTES:

1. SEE SHEET 155 FOR QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

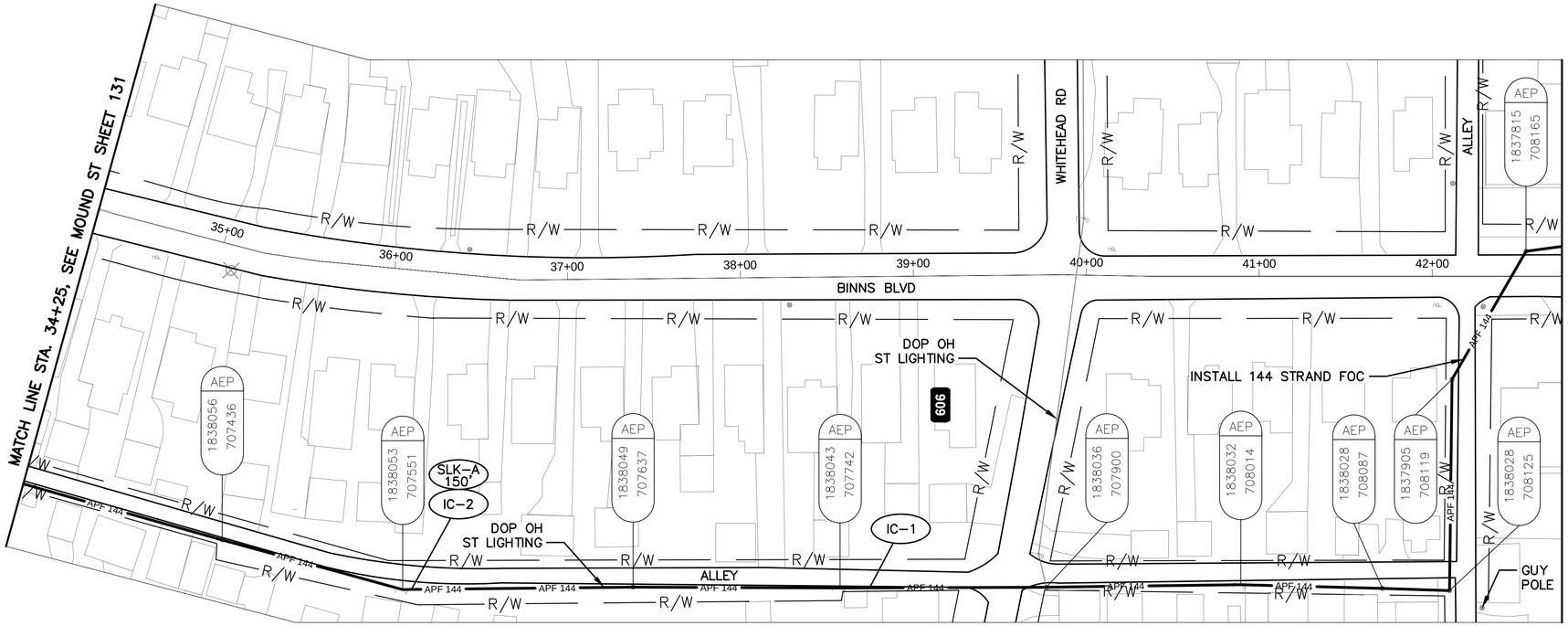
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
HARMON AVE BETWEEN STA. 78+00 AND 86+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

152
911

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BINNS BLVD BETWEEN STATION 34+25 AND 42+75

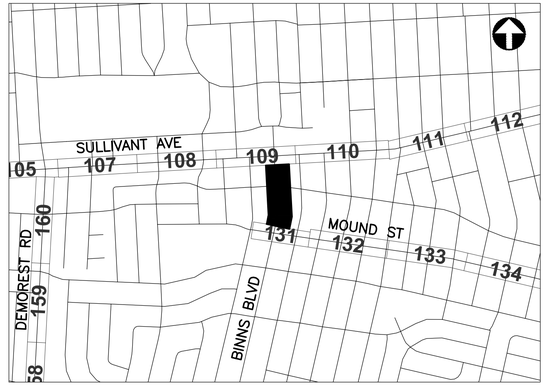
NOTES:

1. SEE SHEET 155 FOR QUANTITIES.
2. SEE SHEET 602 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

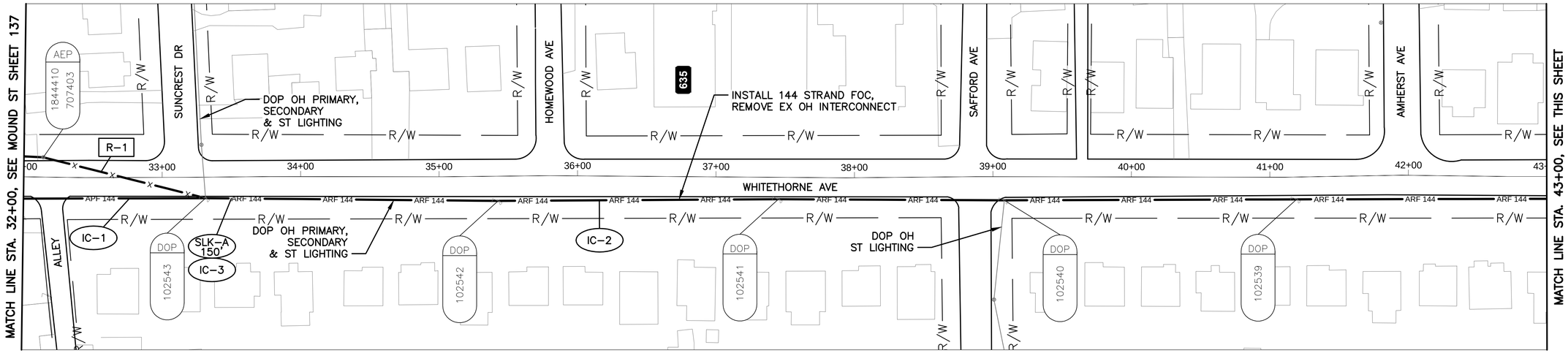
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
BINNS BLVD BETWEEN STA. 34+25 AND 42+75

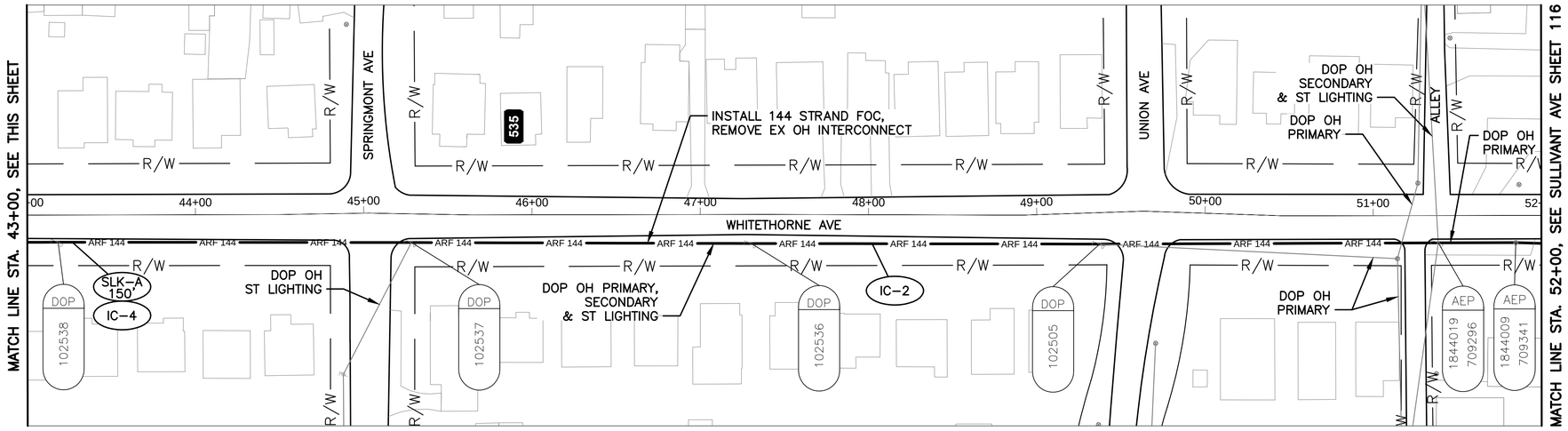
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c - CONSTRUCTION AS-BUILT

153
911

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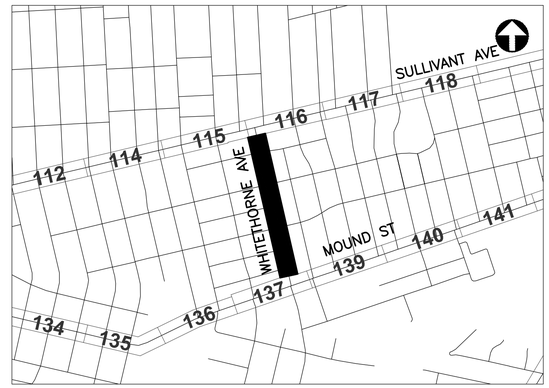
WHITETHORNE AVE BETWEEN STATION 32+00 AND 43+00



WHITETHORNE AVE BETWEEN STATION 43+00 AND 52+00

NOTES:

1. SEE SHEET 155 FOR QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
WHITETHORNE AVE BETWEEN STA. 32+00 AND 52+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

154
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	625 CONDUIT, 3", AS PER PLAN	625 CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN	625 CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	625 PULL BOX, 32", AS PER PLAN	625 TRENCH, 36" DEEP, AS PER PLAN	632 CONDUIT RISER, 3", 725.04, AS PER PLAN	632 DOWN GUY	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES
			FT		FT	FT	FT	EACH	FT	EACH	EACH	FT	FT	FT
BUCHANAN DR. BETWEEN STA. 2+25 AND 8+50														
150	IC-1	SOUDER AVE	4+00, 29' LT	3+31, 28' LT		74			74			74		
150	IC-2	SOUDER AVE	3+31, 28' LT	3+00, 25' RT			256	1				64		
150	IC-3	SOUDER AVE	3+00, 25' RT	0+15, 61' RT		310			310			310		
150	IC-4	SOUDER AVE	3+00, 25' RT					1				100		
150	IC-5	SOUDER AVE	0+16, 54' RT	0+15, 61' RT	14			1	7			7		
150	IC-6	BUCHANAN DR	4+22, 18' LT							2		35		
150	IC-7	BUCHANAN DR	4+22, 18' LT	8+50, 13' LT								434		434
HARMON AVE. BETWEEN STA. 51+00 AND 78+00														
151	IC-1	HARMON AVE	51+00, 22' LT	78+00, 17' LT								2738		2738
151	IC-2	HARMON AVE	58+03, 22' LT									150		
151	IC-3	HARMON AVE	68+55, 17' LT									150		
151	IC-4	HARMON AVE	77+47, 17' LT									150		
HARMON AVE. BETWEEN STA. 78+00 AND 86+00														
152	IC-1	HARMON AVE	78+00, 17' LT	85+20, 151' LT							2	847		847
BINNS BLVD. BETWEEN STA. 34+25 AND 42+75														
153	IC-1	BINNS BLVD	34+25, 164' RT	42+75, 17' LT								1077		1077
153	IC-2	BINNS BLVD	36+26, 184' RT									150		
WHITETHORNE AVE. BETWEEN STA. 32+00 AND 52+00														
154	R-1	WHITETHORNE AVE	32+00, 15' LT	33+31, 15' RT									135	
154	IC-1	WHITETHORNE AVE	32+00, 15' RT	33+31, 15' RT								134		134
154	IC-2	WHITETHORNE AVE	33+31, 15' RT	52+00, 17' RT								1897	1869	1897
154	IC-3	WHITETHORNE AVE	33+49, 16' RT									150		
154	IC-4	WHITETHORNE AVE	43+28, 16' RT									150		
SHEET TOTAL					14	384	256	3	391	2	2	8617	2004	7127

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

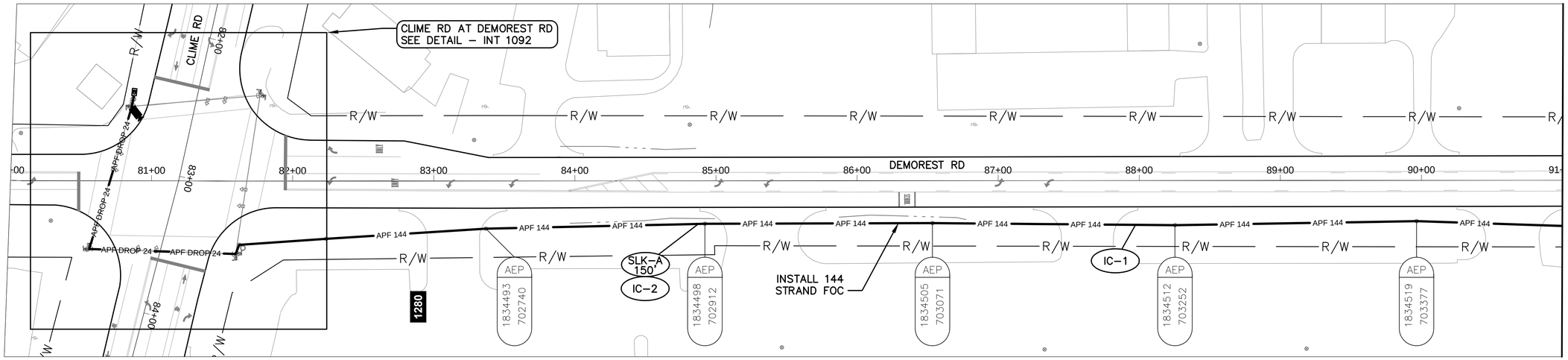
CIP: 540007-100005
PID NUMBER: 14522

BUCHANAN DR. BTW 2+25 & 8+50, HARMON AVE. BTW 51+00 & 86+00,
BINNS BLVD BTW 34+25 & 42+75, WHITETHORNE AVE. BTW 32+00 & 52+00

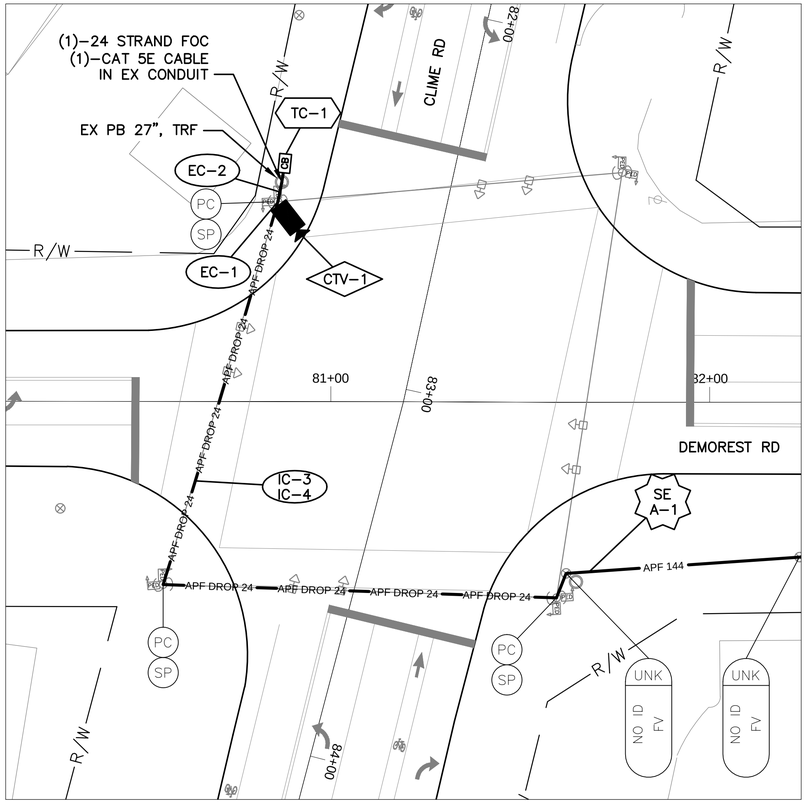
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

155
911

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DEMOREST RD BETWEEN STATION 80+00 AND 91+00



DETAIL - INT 1092

0 20 40

HORIZONTAL
SCALE IN FEET

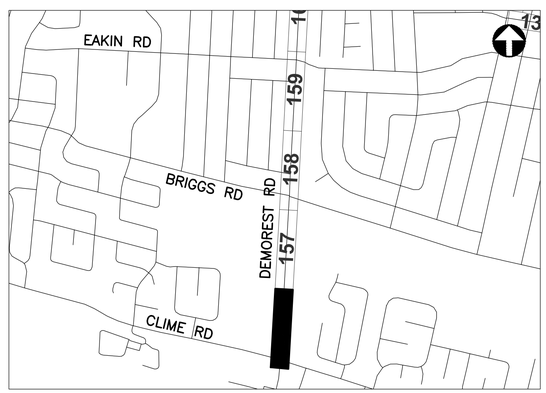
NOTES:

1. SEE SHEET 161 FOR QUANTITIES.
2. SEE SHEETS 602 & 704 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

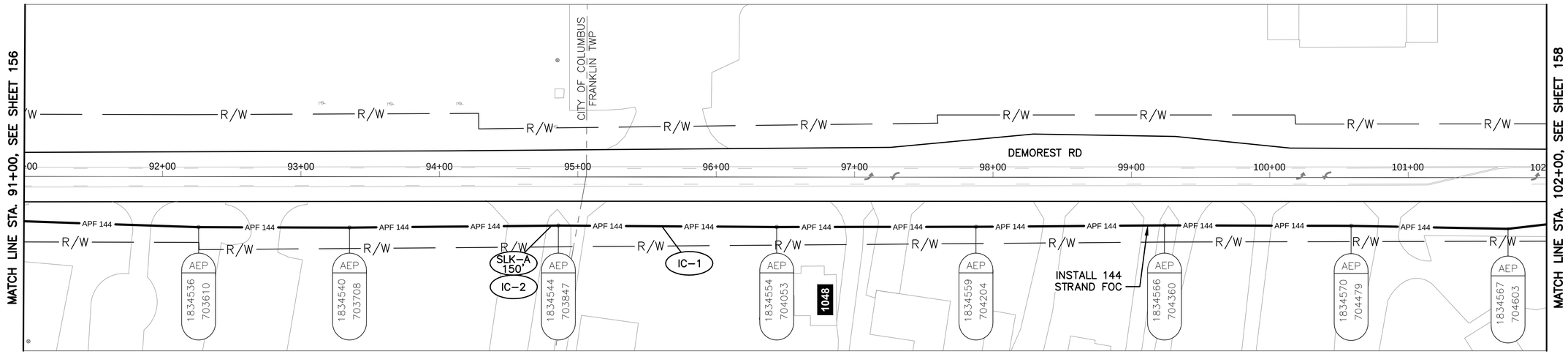
INTERCONNECT PLAN
DEMOREST RD BETWEEN STA. 80+00 AND 91+00, INT 1092

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

156
911

2953-E

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DEMOREST RD BETWEEN STATION 91+00 AND 102+00

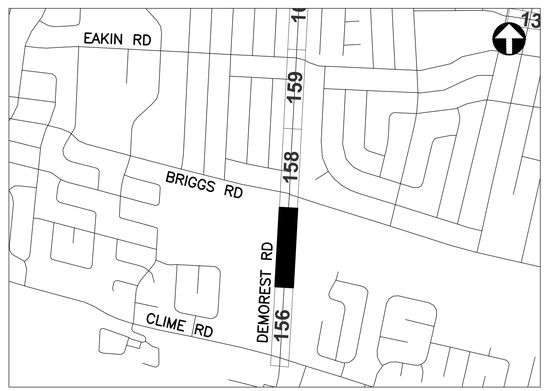
NOTES:

1. SEE SHEET 161 FOR QUANTITIES.
2. SEE SHEET 602 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

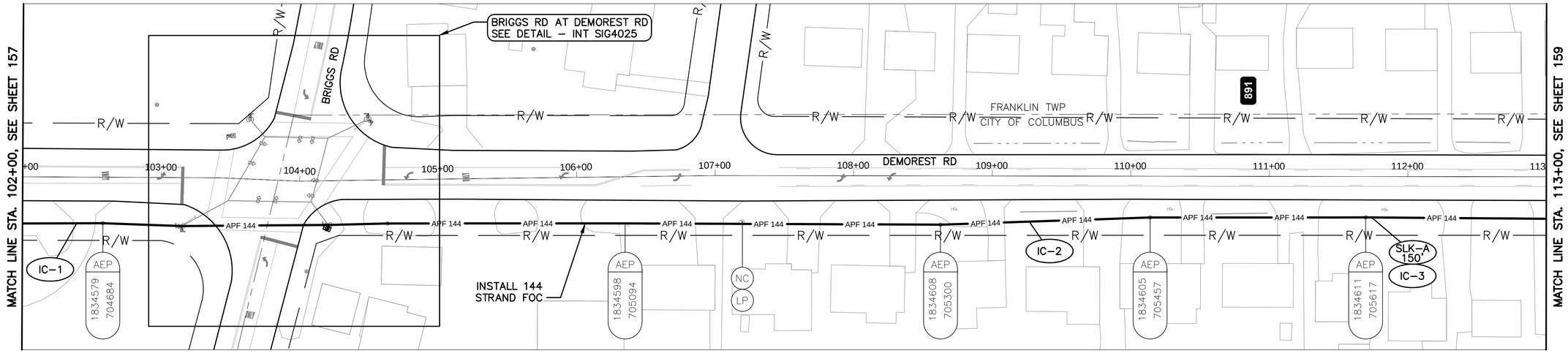
INTERCONNECT PLAN
DEMOREST RD BETWEEN STA. 91+00 AND 102+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c - CONSTRUCTION AS-BUILT

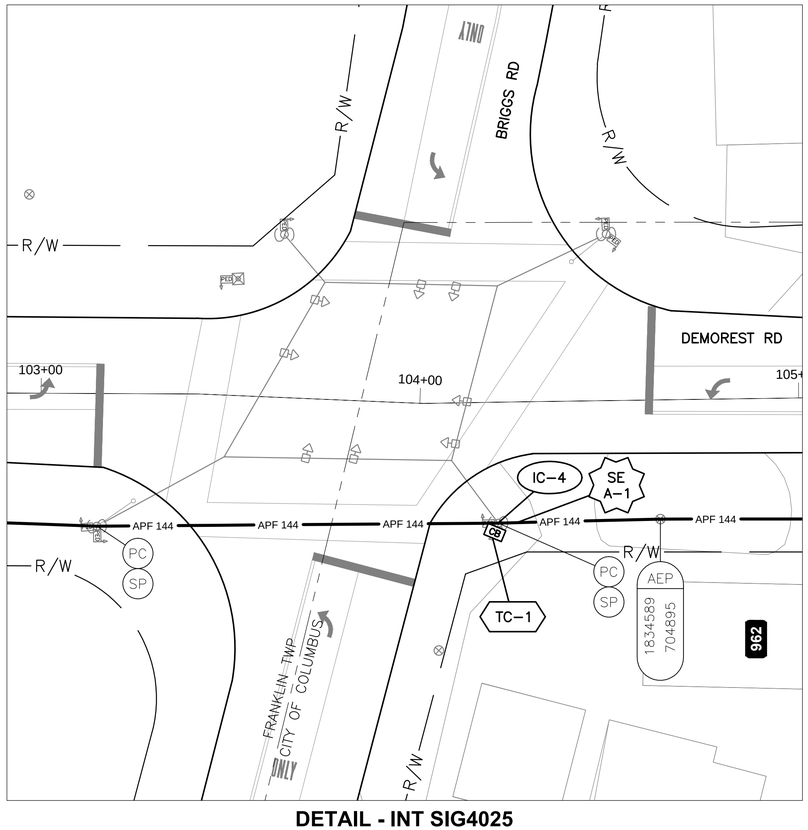
2953-E

157
911

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DEMOREST RD BETWEEN STATION 102+00 AND 113+00



DETAIL - INT SIG4025

0 20 40

HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 161 FOR QUANTITIES.
2. SEE SHEETS 602 & 703 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES

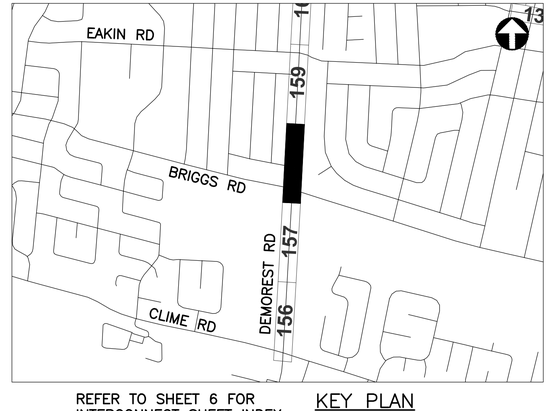
TWO WORKING DAYS BEFORE YOU DIG

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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80

HORIZONTAL SCALE IN FEET

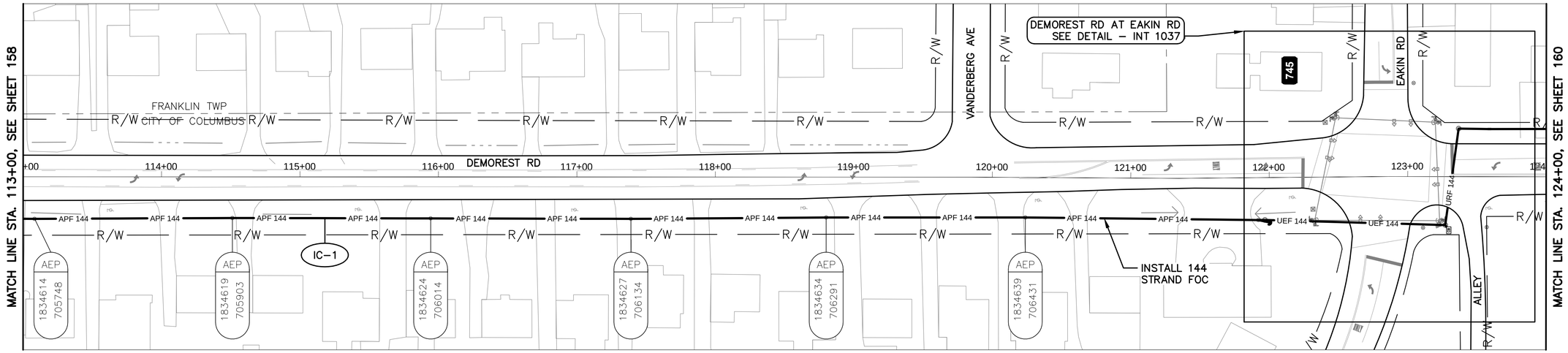
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
DEMOREST RD BETWEEN STA. 102+00 AND 113+00, INT SIG4025

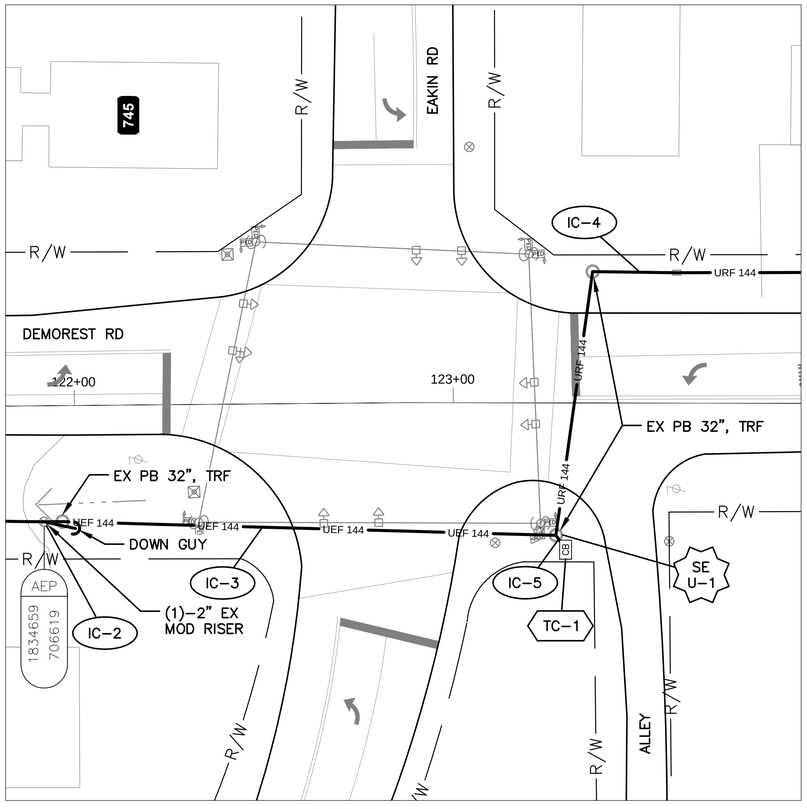
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c – CONSTRUCTION AS–BUILT

158
911

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DEMOREST RD BETWEEN STATION 113+00 AND 124+00



DETAIL - INT 1037

0 20 40

HORIZONTAL
SCALE IN FEET

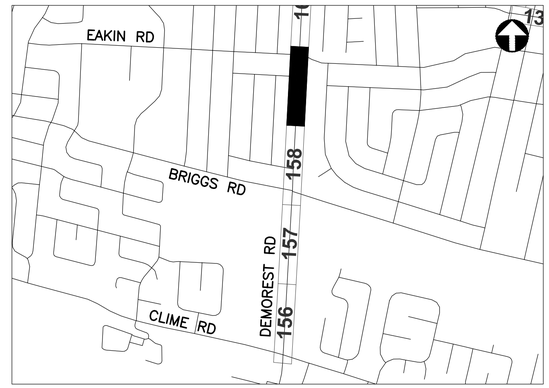
NOTES:

1. SEE SHEET 161 FOR QUANTITIES.
2. SEE SHEETS 602 & 702 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

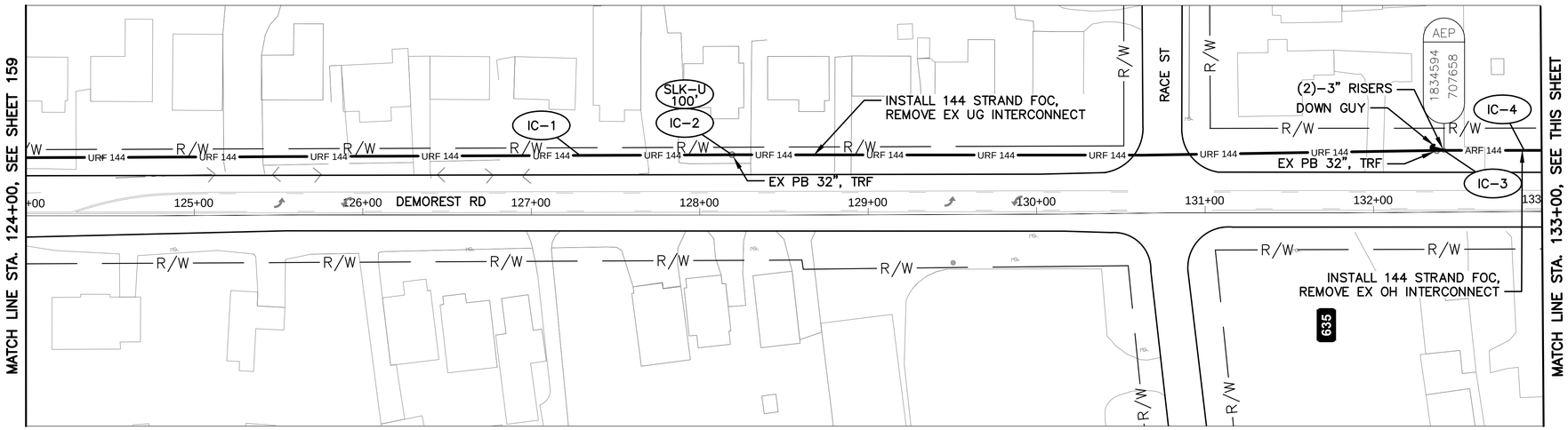
INTERCONNECT PLAN
DEMOREST RD BETWEEN STA. 113+00 AND 124+00, INT 1037

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

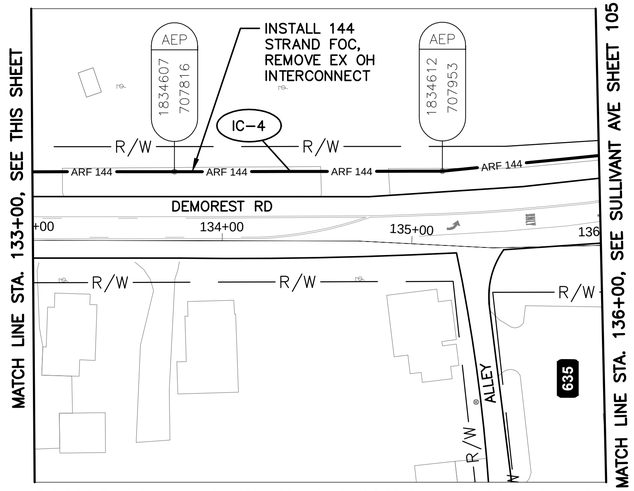
159
911

2953-E

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DEMOREST RD BETWEEN STATION 124+00 AND 133+00



DEMOREST RD BETWEEN STATION 133+00 AND 136+00

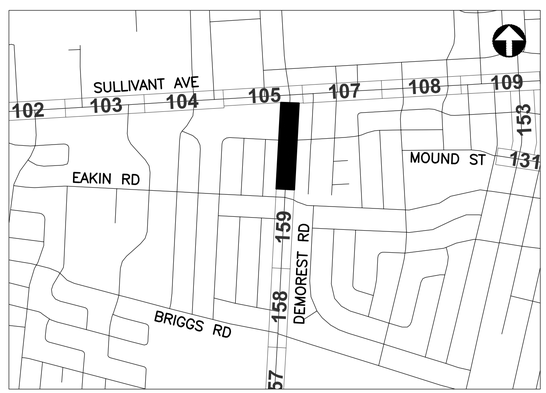
NOTES:

1. SEE SHEET 161 FOR QUANTITIES.
2. SEE SHEET 602 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
DEMOREST RD BETWEEN STA. 124+00 AND 136+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

160
911

2953-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	202 EXISTING CONDUIT CLEANED, AS PER PLAN FT	632 CONDUIT RISER, 3", 725.04, AS PER PLAN EACH	632 DOWN GUY EACH	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND FT	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT FT	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT FT	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 144 FIBER EACH	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER EACH	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE EACH	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 450FT DROP CABLE EACH	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES FT	632 SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE FT	632 SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM EACH	633 CABINET, POLE MOUNTED, TYPE TS-2, AS PER PLAN EACH	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE EACH	633 CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE EACH	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH EACH	633 CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER EACH	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN EACH	
DEMOREST RD. BETWEEN STA. 80+00 AND 91+00, INT 1092																									
156	EC-1	DEMOREST RD	80+85, 53' LT													35									
156	EC-2	DEMOREST RD	80+85, 53' LT	80+87, 63' LT	10											10									
156	IC-3	DEMOREST RD	80+85, 53' LT	81+59, 52' RT											212										
156	CTV-1	DEMOREST RD	80+86, 52' LT														1								
156	TC-1	DEMOREST RD	80+87, 63' LT													10			2	1	1				
156	IC-4	DEMOREST RD	80+87, 63' LT	81+59, 52' RT										1											
156	SE A-1	DEMOREST RD	81+59, 52' RT					75				1													
156	IC-1	DEMOREST RD	81+59, 52' RT	91+00, 32' RT				959							959										
156	IC-2	DEMOREST RD	84+87, 31' RT					150																	
DEMOREST RD. BETWEEN STA. 91+00 AND 102+00																									
157	IC-1	DEMOREST RD	91+00, 32' RT	102+00, 34' RT				1117							1117										
157	IC-2	DEMOREST RD	94+81, 36' RT					150																	
DEMOREST RD. BETWEEN STA. 102+00 AND 113+00, INT SIG4025																									
158	IC-1	DEMOREST RD	102+00, 34' RT	104+20, 32' RT				224							224										
158	SE A-1	DEMOREST RD	104+20, 32' RT					150				1													
158	IC-4	DEMOREST RD	104+20, 32' RT	104+20, 32' RT									1												
158	TC-1	DEMOREST RD	104+20, 32' RT																1	2	1		1		
158	IC-2	DEMOREST RD	104+20, 32' RT	113+00, 30' RT				892							892										
158	IC-3	DEMOREST RD	111+73, 30' RT					150																	
DEMOREST RD. BETWEEN STA. 113+00 AND 124+00, INT 1037																									
159	IC-1	DEMOREST RD	113+00, 30' RT	121+91, 31' RT				905							905										
159	IC-2	DEMOREST RD	121+91, 31' RT				1	35																	
159	IC-3	DEMOREST RD	121+91, 31' LT	123+27, 35' RT	135			135																	
159	IC-4	DEMOREST RD	123+27, 35' RT	124+00, 35' LT	134			134		134															
159	SE U-1	DEMOREST RD	123+27, 35' RT					150			1														
159	IC-5	DEMOREST RD	123+27, 35' RT	123+29, 39' RT	5					5			1												
159	TC-1	DEMOREST RD	123+29, 39' RT																2		1	1			
DEMOREST RD. BETWEEN STA. 124+00 AND 136+00																									
160	IC-1	DEMOREST RD	124+00, 35' LT	132+42, 37' LT	841			841		841															
160	IC-2	DEMOREST RD	125+19, 36' LT					100																	
160	IC-3	DEMOREST RD	132+42, 37' LT			2	1	35																	
160	IC-4	DEMOREST RD	132+42, 37' LT	136+00, 47' LT				363	358						363										
SHEET TOTAL					1125	2	2	6565	358	980	1	2	2	1	4672	55	1	1	6	1	3	1	1	-	

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

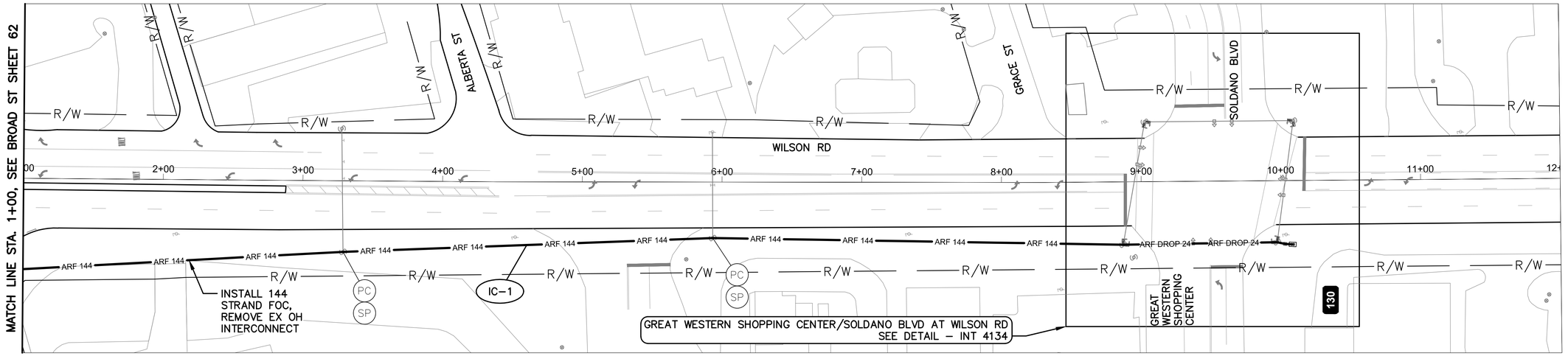
CIP: 540007–100005
PID NUMBER: 14522

DEMOREST RD. BTW STA. 80+00 & 136+00
INTS 1092, SIG4025, 1037

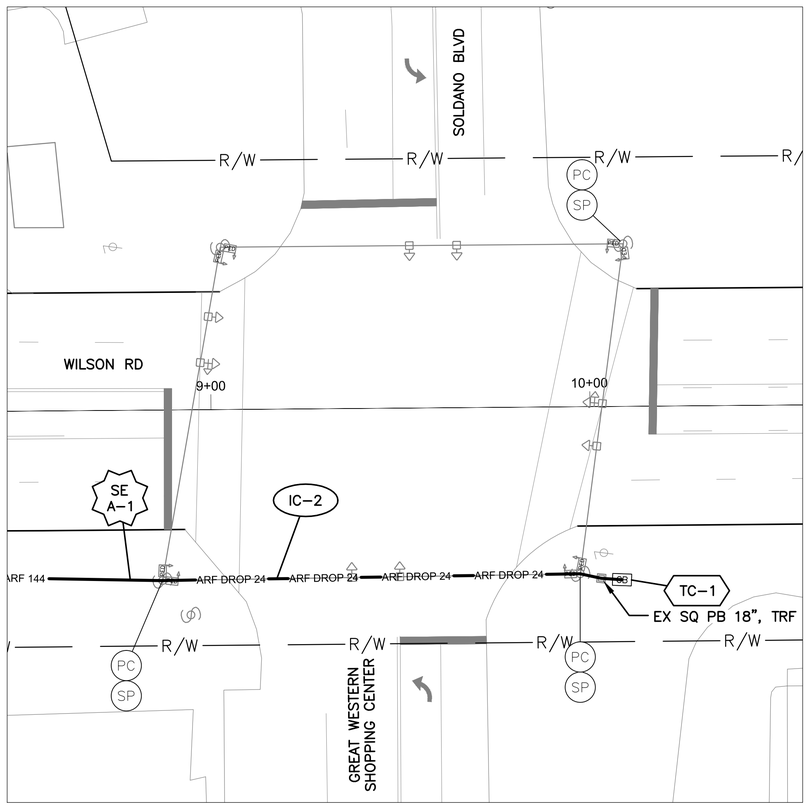
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

161
911

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WILSON RD BETWEEN STATION 1+00 AND 12+00



DETAIL - INT 4134

0 20 40
HORIZONTAL SCALE IN FEET

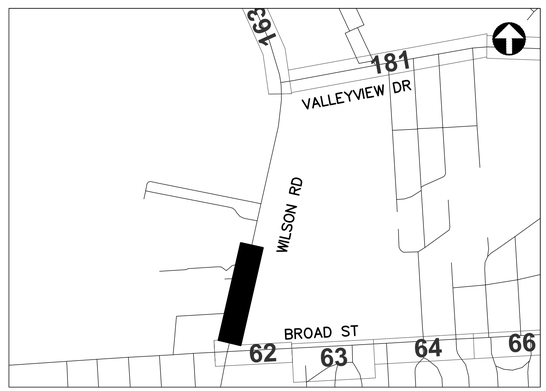
NOTES:

1. SEE SHEET 166 FOR QUANTITIES.
2. SEE SHEETS 600 & 637 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

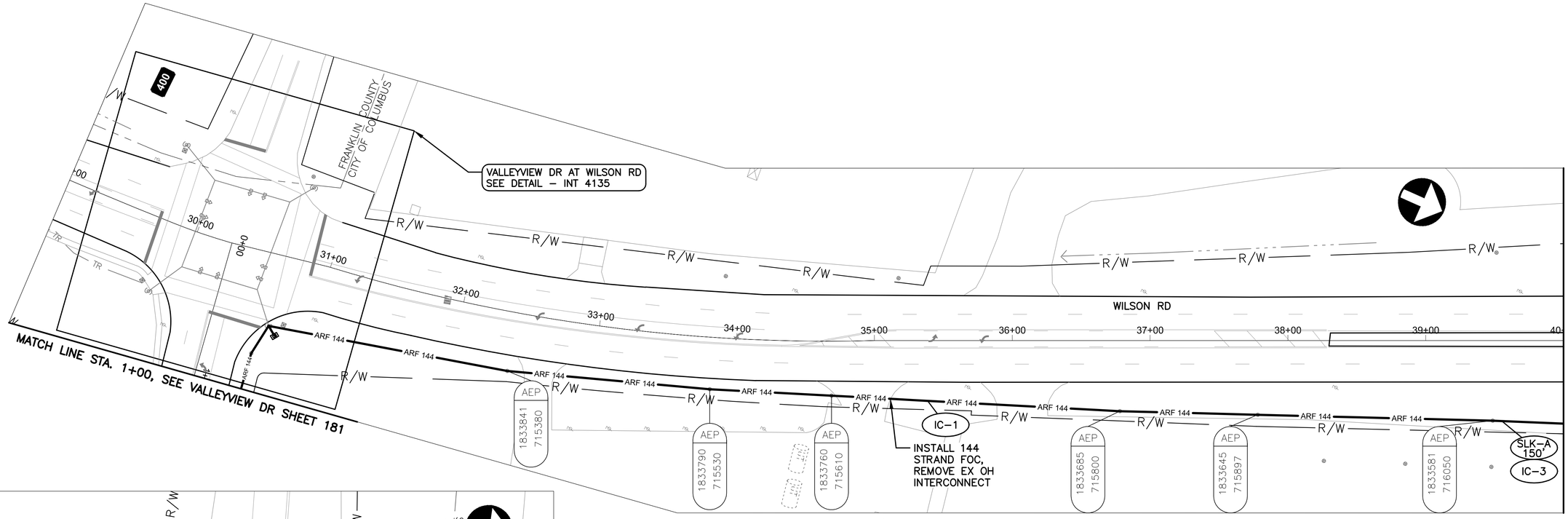
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PID NUMBER: 14522

INTERCONNECT PLAN
WILSON RD BETWEEN STA. 1+00 AND 12+00, INT 4134

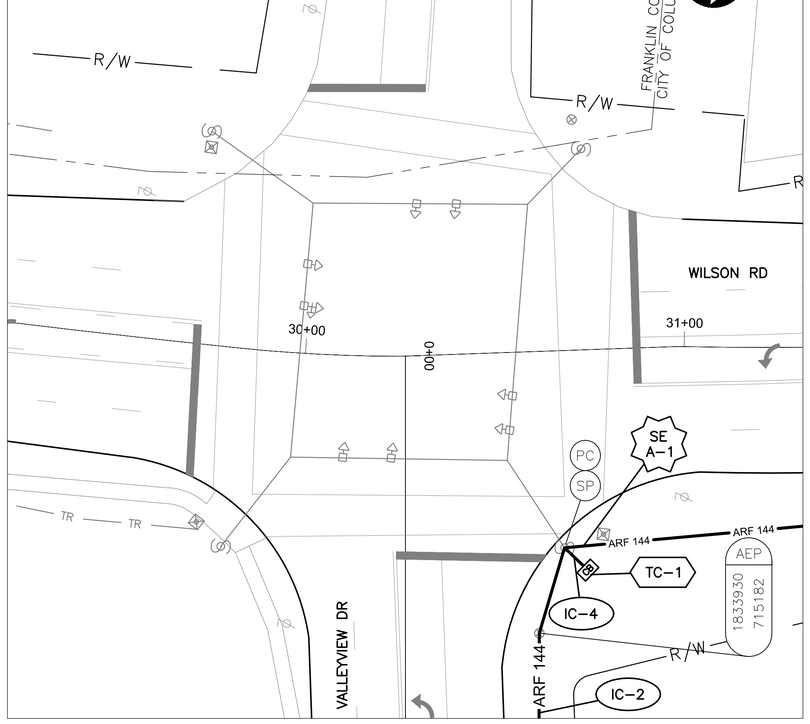
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

162
911

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WILSON RD BETWEEN STATION 29+00 AND 40+00



DETAIL - INT 4135

0 20 40
HORIZONTAL
SCALE IN FEET

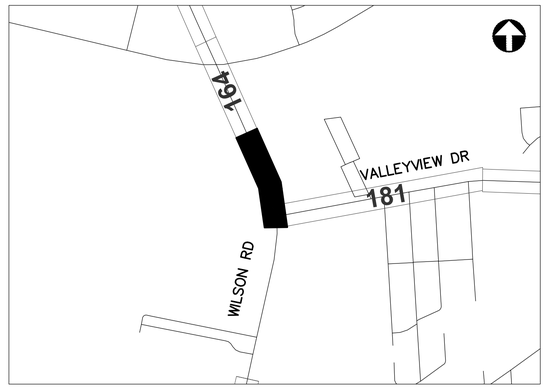
NOTES:

1. SEE SHEET 166 FOR QUANTITIES.
2. SEE SHEETS 599 & 636 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

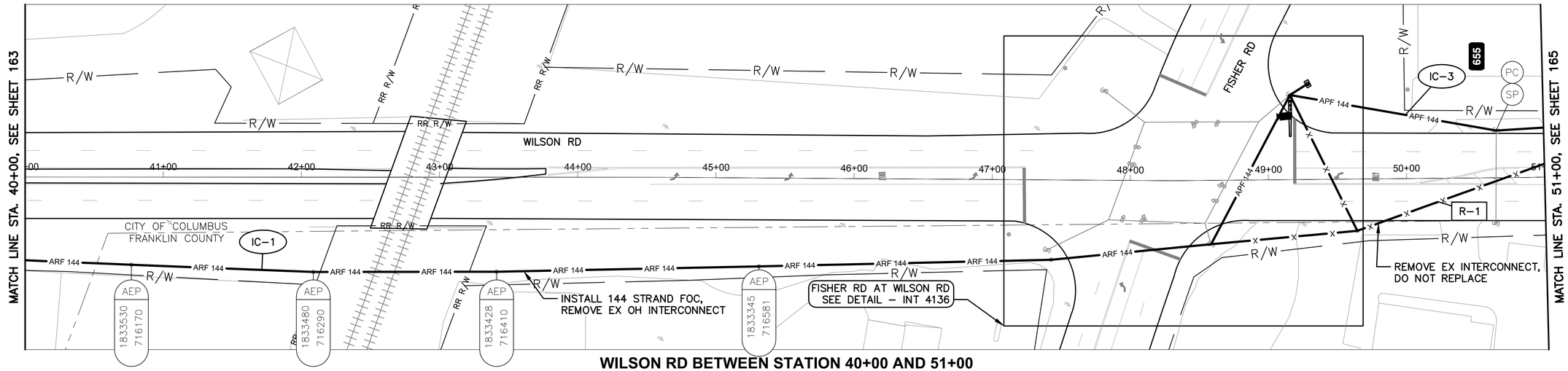
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PID NUMBER: 14522

INTERCONNECT PLAN
WILSON RD BETWEEN STA. 29+00 AND 40+00, INT 4135

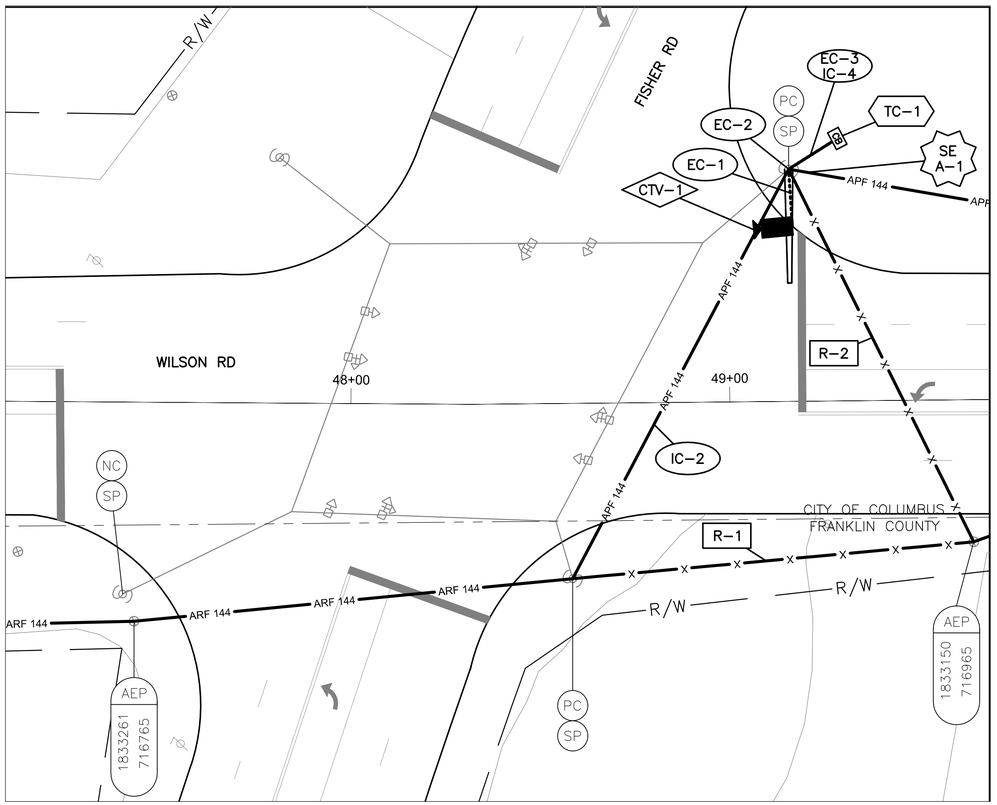
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

163
911

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WILSON RD BETWEEN STATION 40+00 AND 51+00



DETAIL - INT 4136

0 20 40

HORIZONTAL
SCALE IN FEET

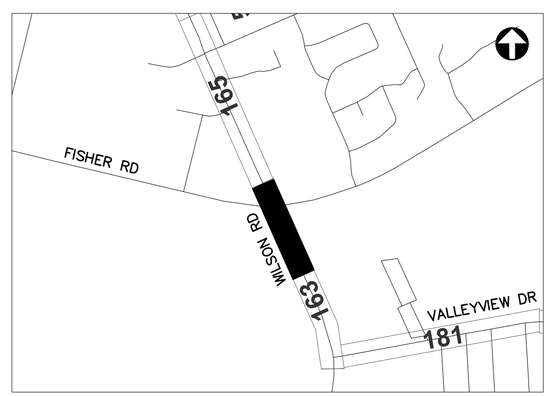
NOTES:

1. SEE SHEET 166 FOR QUANTITIES.
2. SEE SHEETS 599 & 635 FOR COMMUNICATION DETAILS.
3. CONTRACTOR REQUIRED TO CONTACT CSX TRANSPORTATION, INC. FOR CROSSING AT STA. 42+53, 69' RT TO COORDINATE FIBER INSTALLATION. SEE SHEET 18 FOR RAILROAD COORDINATION DETAILS.

UNDERGROUND UTILITIES
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

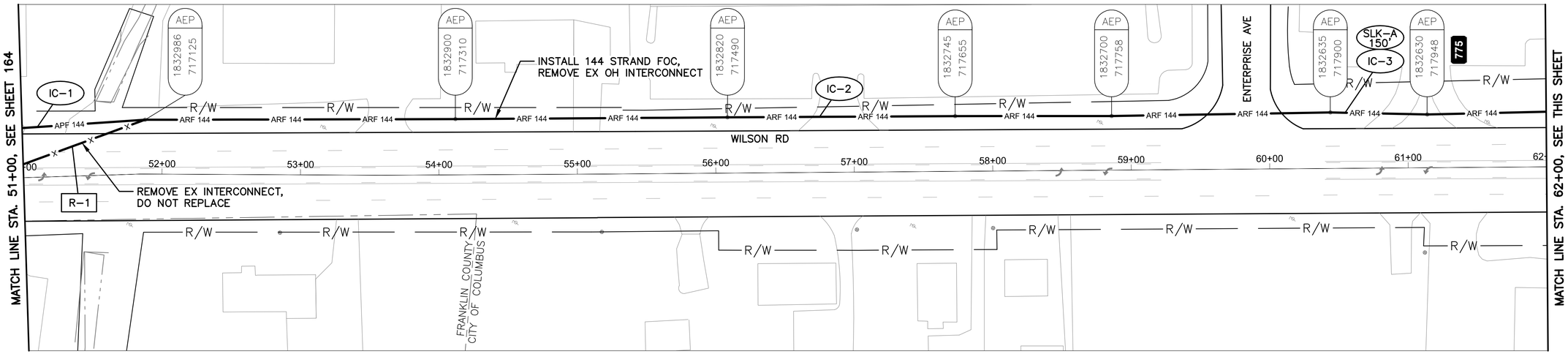
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PID NUMBER: 14522

INTERCONNECT PLAN
WILSON RD BETWEEN STA. 40+00 AND 51+00, INT 4136

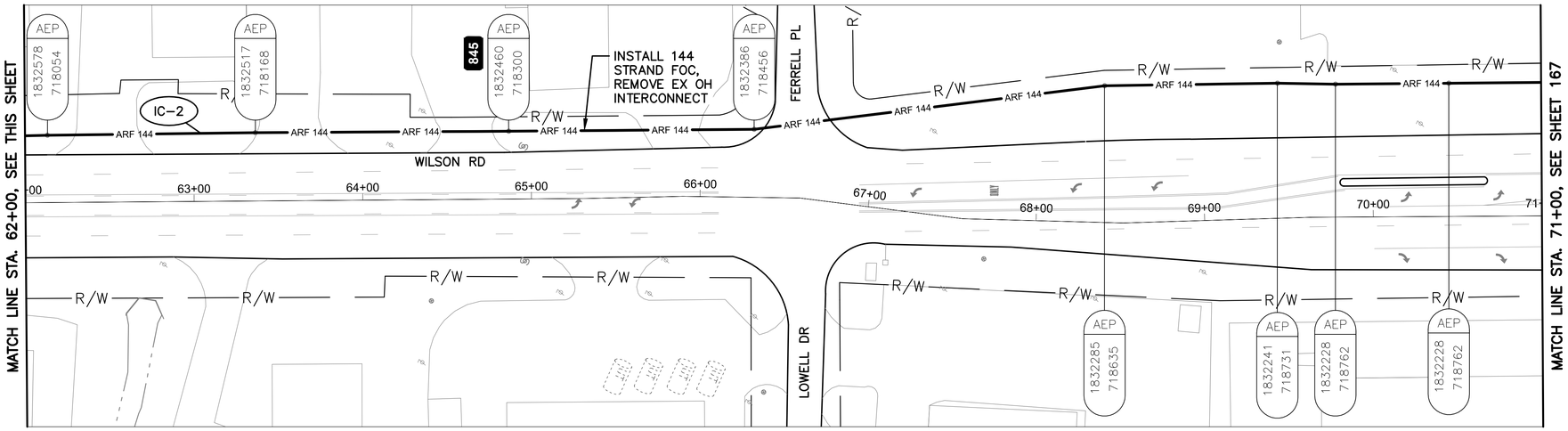
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

164
911

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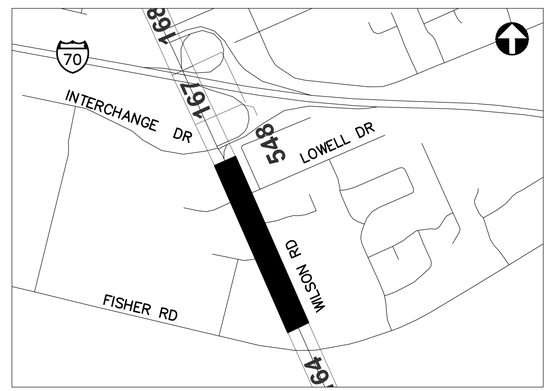
WILSON RD BETWEEN STATION 51+00 AND 62+00



WILSON RD BETWEEN STATION 62+00 AND 71+00

NOTES:

1. SEE SHEET 166 FOR QUANTITIES.
2. SEE SHEET 600 FOR COMMUNICATION DETAILS.



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

UNDERGROUND UTILITIES
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
WILSON RD BETWEEN STA. 51+00 AND 71+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

165
911

2953-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	632	632	632	632	632	632	632	632	633	633	633	633						
					EXISTING CONDUIT CLEANED, AS PER PLAN	BRACKET ARM, 30', AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN						
			FROM	TO	FT	EACH	FT	FT	FT	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH						
WILSON RD. BETWEEN STA. 1+00 AND 12+00, INT 4134																								
162	IC-1	WILSON RD	1+00, 65' RT	9+97, 44' RT			912	899				912												
162	SE A-1	WILSON RD	9+97, 44' RT				75			1														
162	IC-2	WILSON RD	9+97, 44' RT	10+08, 46' RT	11						1													
162	TC-1	WILSON RD	10+08, 46' RT												2	1	1							
WILSON RD. BETWEEN STA. 29+00 AND 40+00, INT 4135																								
163	IC-2	WILSON RD	30+58, 101' RT	30+66, 52' RT			51	50				51												
163	SE A-1	WILSON RD	30+66, 52' RT				150			1														
163	IC-4	WILSON RD	30+66, 52' RT	30+72, 58' RT	9						1													
163	IC-1	WILSON RD	30+66, 52' RT	40+00, 60' RT			958	944				958												
163	TC-1	WILSON RD	30+72, 58' RT												4	1		1						
163	IC-3	WILSON RD	39+55, 58' RT				150																	
WILSON RD. BETWEEN STA. 40+00 AND 51+00, INT 4136																								
164	IC-1	WILSON RD	40+00, 60' RT	48+58, 46' RT			872	859				872												
164	IC-2	WILSON RD	48+58, 46' RT	49+16, 61' LT			124					124												
164	R-1	WILSON RD	48+58, 46' RT	51+00, 10' LT				250																
164	CTV-1	WILSON RD	49+16, 46' LT											1										
164	SE A-1	WILSON RD	49+16, 61' LT				150			1														
164	EC-2	WILSON RD	49+16, 61' LT			1							35											
164	EC-1	WILSON RD	49+16, 61' LT	49+16, 46' LT									15											
164	IC-3	WILSON RD	49+16, 61' LT	51+00, 36' LT			189					189												
164	IC-4	WILSON RD	49+16, 61' LT	49+28, 69' LT	15				15		1													
164	R-2	WILSON RD	49+16, 61' LT	49+64, 38' RT				110																
164	EC-3	WILSON RD	49+16, 61' LT	49+28, 69' LT									15											
164	TC-1	WILSON RD	49+28, 69' LT										10		2	1		1						
WILSON RD. BETWEEN STA. 51+00 AND 71+00																								
165	IC-1	WILSON RD	51+00, 36' LT	51+87, 39' LT			90					90												
165	R-1	WILSON RD	51+00, 10' LT	51+87, 39' LT				54																
165	IC-2	WILSON RD	51+87, 39' LT	71+00, 79' LT			1942	1913				1942												
165	IC-3	WILSON RD	60+54, 40' LT				150																	
SHEET TOTAL					35	1	5813	5119	15	3	3	5138	75	1	8	3	1	2	-	-	-	-	-	-

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

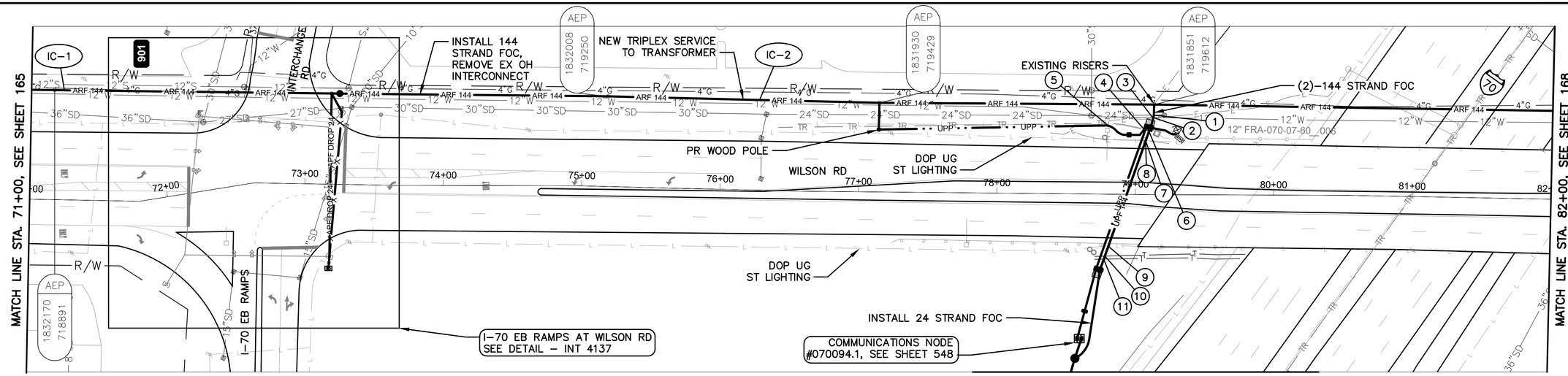
CIP: 540007–100005
PID NUMBER: 14522

WILSON RD. BTW STA. 1+00 AND 12+00, 29+00 AND 71+00
INTS 4134, 4135, 4136

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

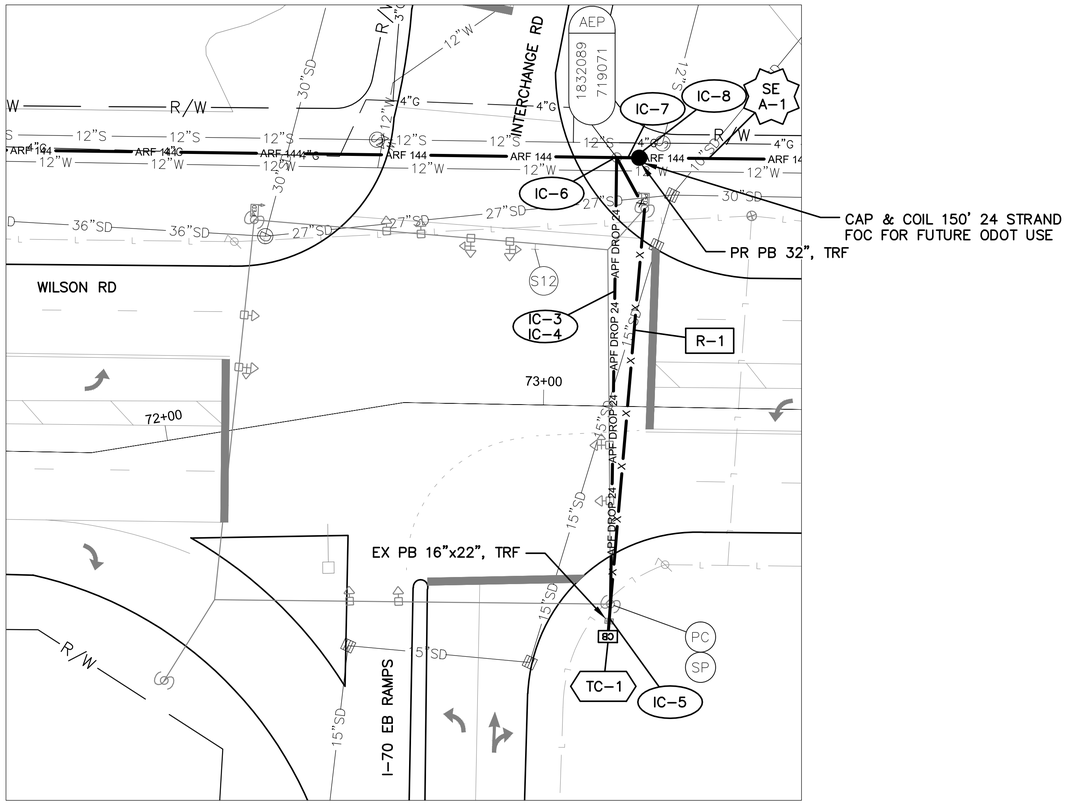
166
911

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WILSON RD BETWEEN STATION 71+00 AND 82+00

FOR CONTINUATION, SEE COMMUNICATION DETAIL ON SHEET 548



DETAIL - INT 4137

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

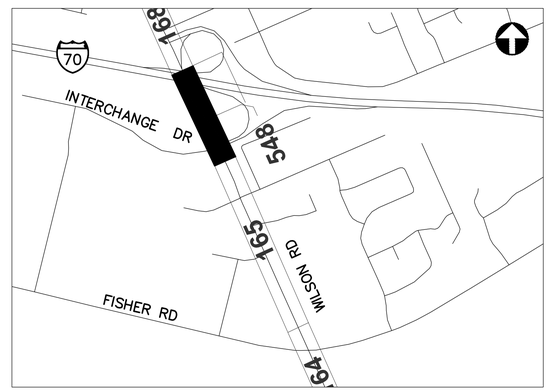
1. SEE SHEET 172 FOR QUANTITIES.
2. SEE SHEETS 599 & 634 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.
4. SEE SHEET 38 FOR INTERCEPTING EXISTING CONDUIT DETAILS.
5. SEE SHEETS 549 & 550 FOR NODE QUANTITIES.
6. SEE SHEET 286 FOR POWER SERVICE DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 12.

UNDERGROUND UTILITIES
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CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☒	WATER
☐	POWER
☒	LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

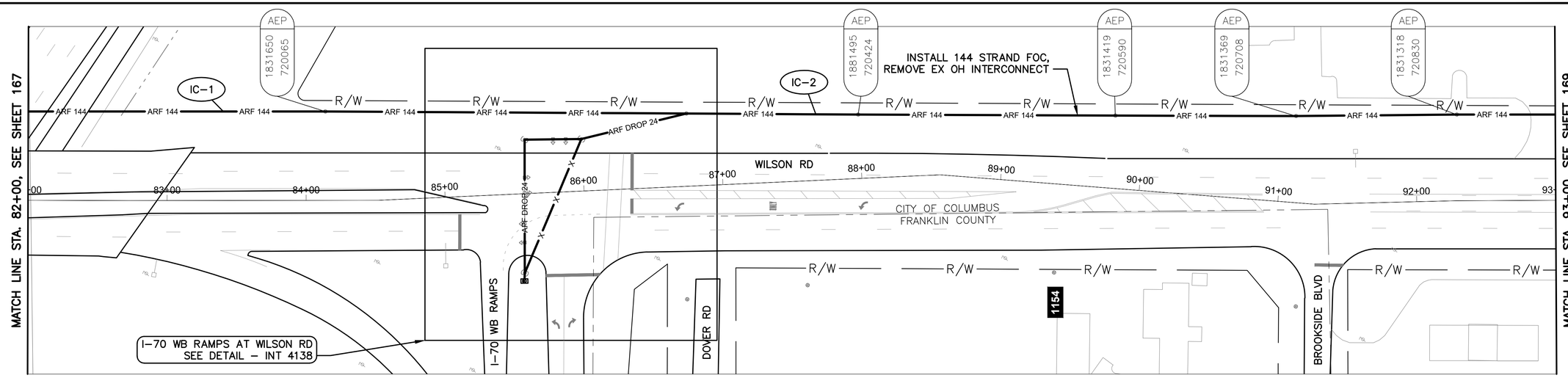
INTERCONNECT PLAN
WILSON RD BETWEEN STA. 71+00 AND 82+00, INT 4137

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c - CONSTRUCTION AS-BUILT

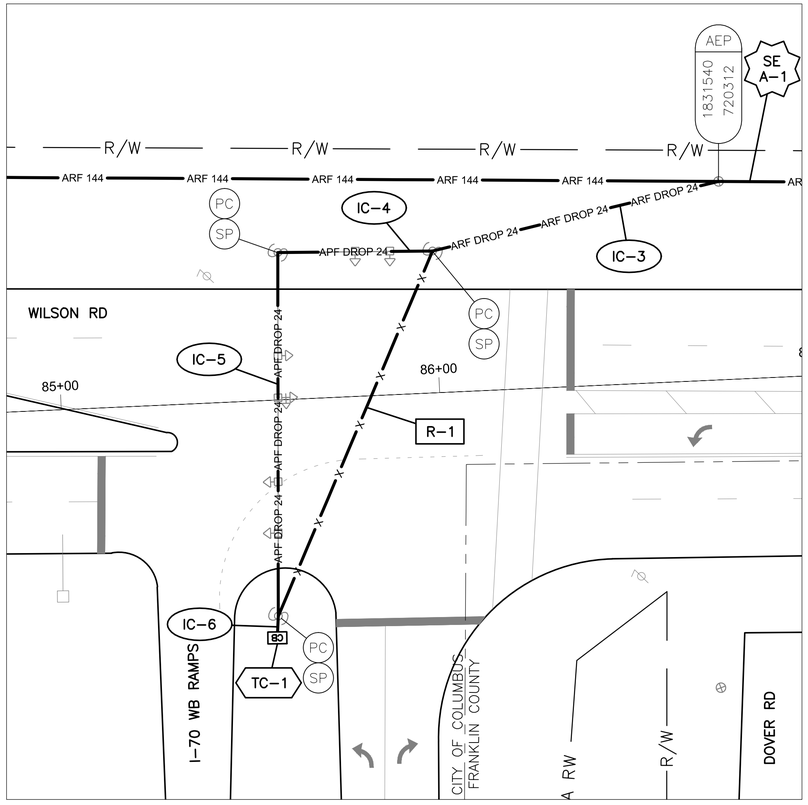
2953-E

167
911

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WILSON RD BETWEEN STATION 82+00 AND 93+00



DETAIL - INT 4138

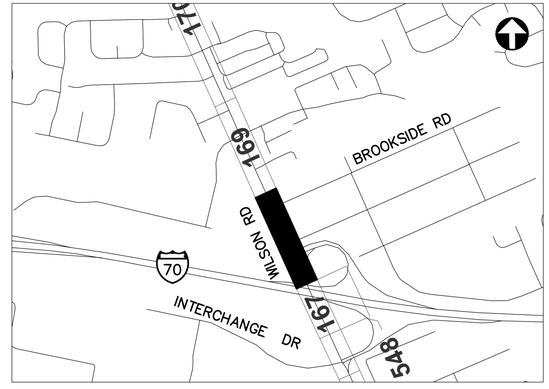
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 172 FOR QUANTITIES.
2. SEE SHEETS 599 & 633 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

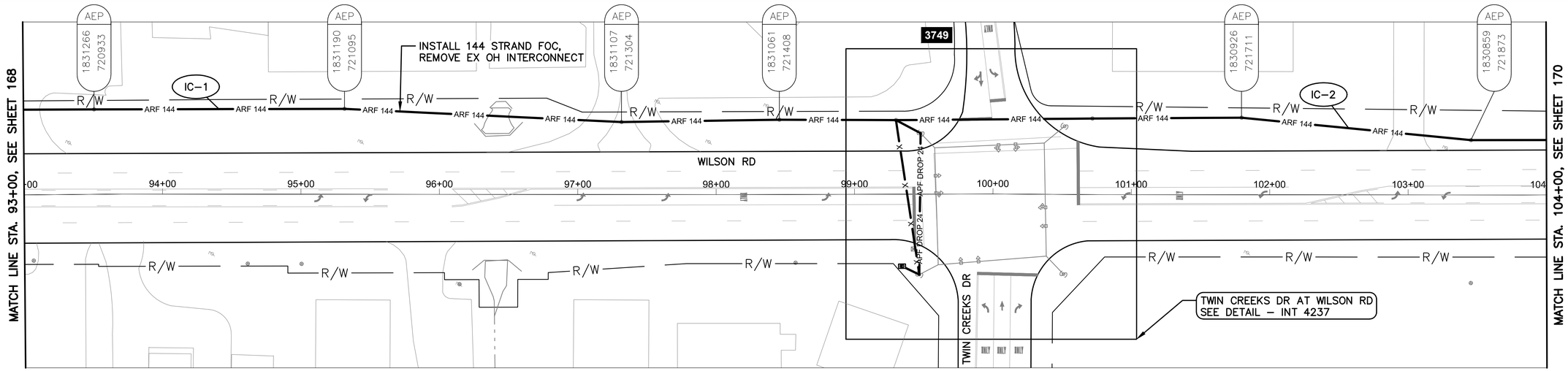
INTERCONNECT PLAN
WILSON RD BETWEEN STA. 82+00 AND 93+00, INT 4138

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

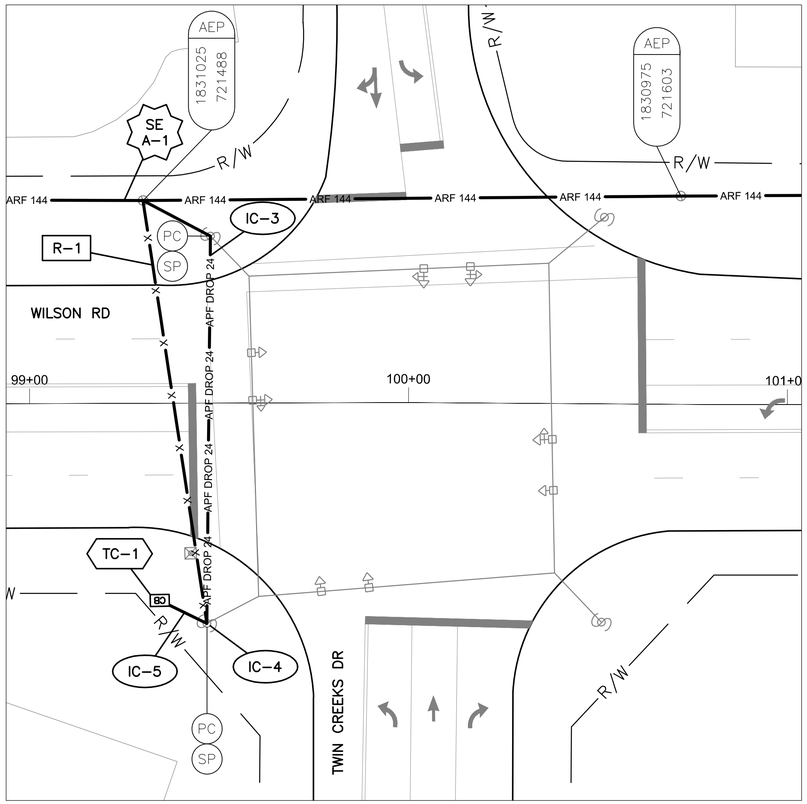
168
911

2953-E

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WILSON RD BETWEEN STATION 93+00 AND 104+00



DETAIL - INT 4237

0 20 40
HORIZONTAL
SCALE IN FEET

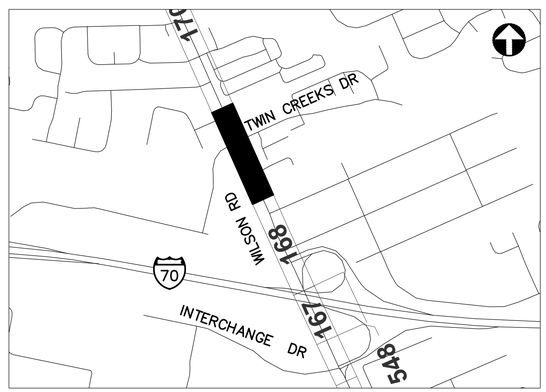
NOTES:

1. SEE SHEET 172 FOR QUANTITIES.
2. SEE SHEETS 599 & 632 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

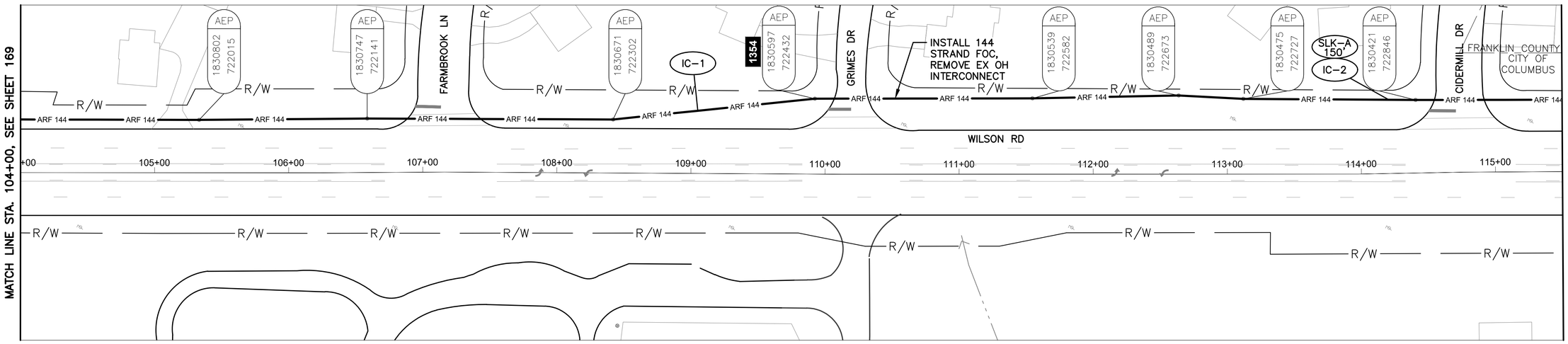
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PID NUMBER: 14522

INTERCONNECT PLAN
WILSON RD BETWEEN STA. 93+00 AND 104+00, INT 4237

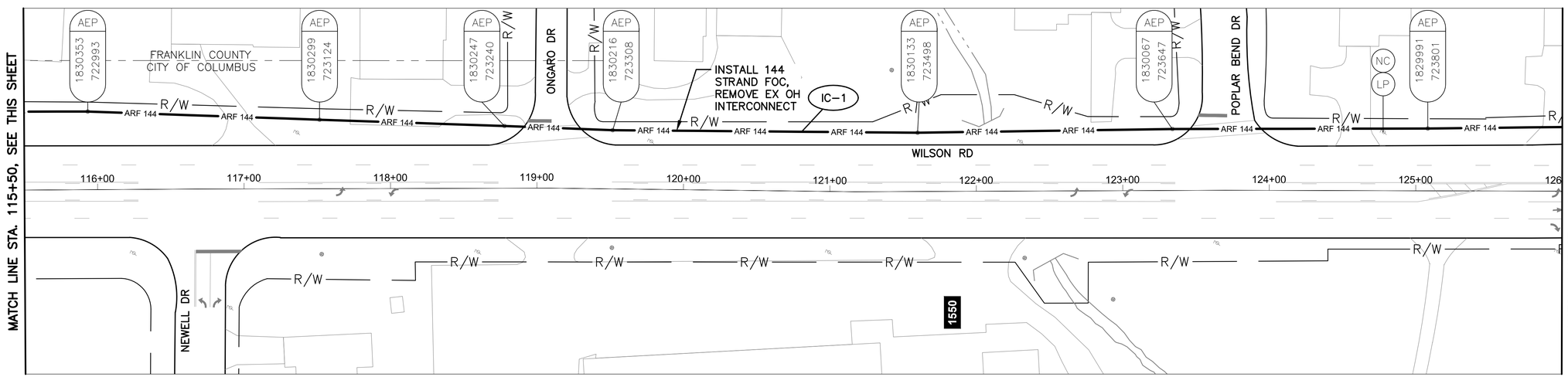
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

169
911

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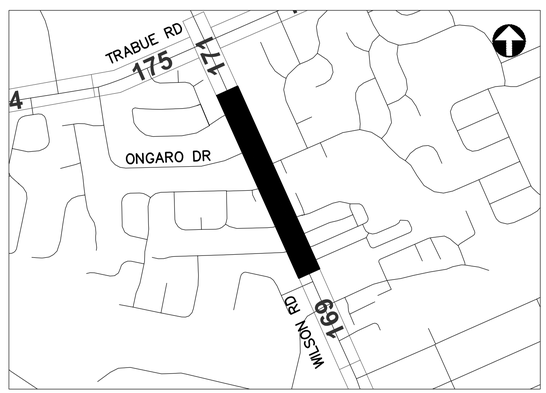
WILSON RD BETWEEN STATION 104+00 AND 115+50



WILSON RD BETWEEN STATION 115+50 AND 126+00

NOTES:

1. SEE SHEET 172 FOR QUANTITIES.
2. SEE SHEET 599 FOR COMMUNICATION DETAILS.



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

UNDERGROUND UTILITIES
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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

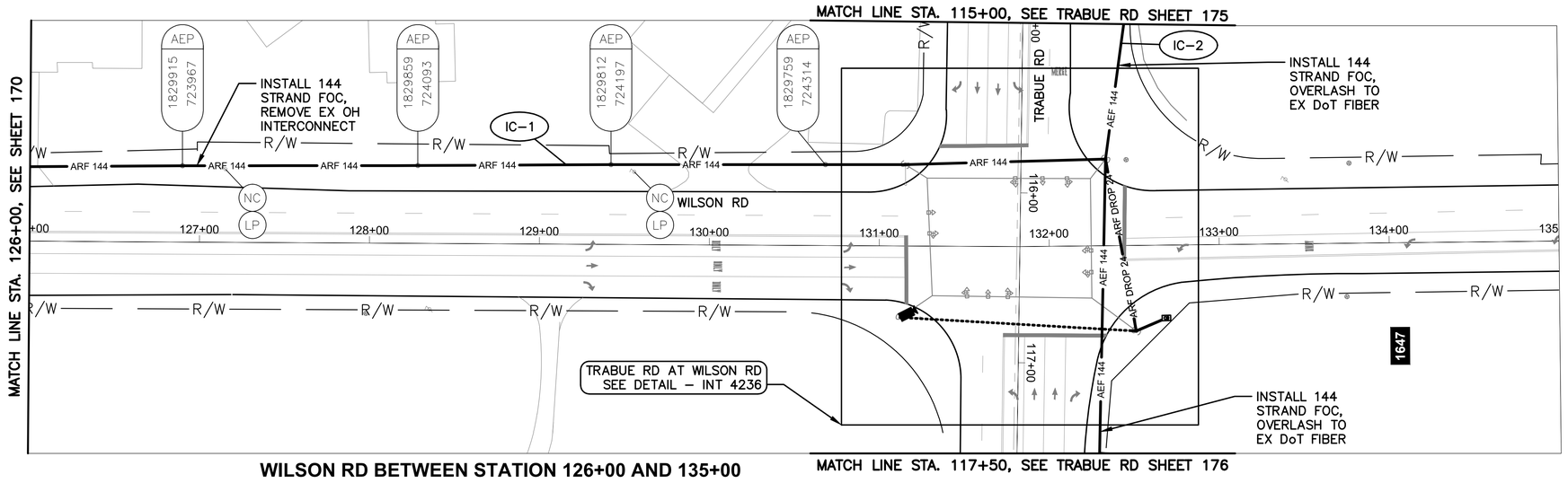
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PID NUMBER: 14522

INTERCONNECT PLAN
WILSON RD BETWEEN STA. 104+00 AND 126+00

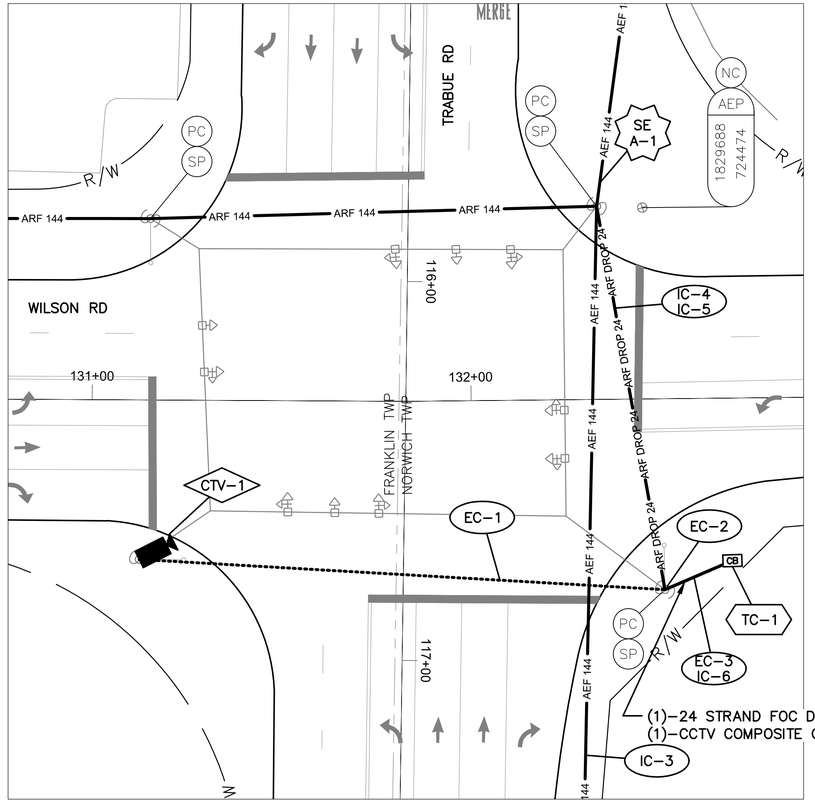
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

170
911

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WILSON RD BETWEEN STATION 126+00 AND 135+00



DETAIL - INT 4236

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 172 FOR QUANTITIES.
2. SEE SHEETS 599 & 631 FOR COMMUNICATION DETAILS.
3. FOR THE SPLICE ENCLOSURE AT INT 4236, PROVIDE 75' OF SLACK FROM ALL THREE DIRECTIONS FOR THE 225' TOTAL.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
WILSON RD BETWEEN STA. 126+00 AND 135+00, INT 4236

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

171
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	632	632	632	632	632	632	632	632	632	632	632	633	633	633
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, 2", AS PER PLAN	PULL BOX, 32", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT RISER, 3", 725.04, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 450FT DROP CABLE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN
			FROM	TO	FT	FT	EACH	FT	EACH	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH
WILSON RD. BETWEEN STA. 71+00 AND 82+00, INT 4137																								
167	IC-1	WILSON RD	71+00, 79' LT	73+18, 66' LT						220		217							220					
167	R-1	WILSON RD	73+18, 52' RT	73+18, 66' LT								120												
167	IC-4	WILSON RD	73+18, 61' RT	73+18, 66' LT														1						
167	TC-1	WILSON RD	73+18, 61' RT																			2	1	1
167	IC-5	WILSON RD	73+18, 61' RT	73+18, 52' RT	9								9											
167	SE A-1	WILSON RD	73+18, 66' LT							150					1									
167	IC-2	WILSON RD	73+18, 66' LT	82+00, 64' LT						895		882							895					
167	IC-3	WILSON RD	73+18, 66' LT	73+18, 52' RT															118					
167	IC-6	WILSON RD	73+18, 66' LT						1					35										
167	IC-7	WILSON RD	73+18, 66' LT	73+25, 66' LT		7		7						7										
167	IC-8	WILSON RD	73+25, 66' LT				1							150										
WILSON RD. BETWEEN STA. 82+00 AND 93+00, INT 4138																								
168	IC-1	WILSON RD	82+00, 64' LT	86+76, 52' LT						480		473							480					
168	R-1	WILSON RD	85+54, 57' RT	85+99, 37' LT								105												
168	IC-4	WILSON RD	85+54, 57' RT	85+99, 37' LT															139					
168	IC-5	WILSON RD	85+54, 63' RT	86+76, 52' LT														1						
168	TC-1	WILSON RD	85+54, 63' RT																			2	1	1
168	IC-6	WILSON RD	85+54, 63' RT	85+54, 57' RT	6								6											
168	IC-3	WILSON RD	85+99, 37' LT	86+76, 52' LT								78							79					
168	SE A-1	WILSON RD	86+76, 52' LT							150					1									
168	IC-2	WILSON RD	86+76, 52' LT	93+00, 62' LT						634		625							634					
WILSON RD. BETWEEN STA. 93+00 AND 104+00, INT 4237																								
169	IC-1	WILSON RD	93+00, 62' LT	99+30, 54' LT						640		631							640					
169	SE A-1	WILSON RD	99+30, 54' LT							150					1									
169	IC-2	WILSON RD	99+30, 54' LT	104+00, 40' LT						478		471							478					
169	IC-3	WILSON RD	99+30, 54' LT	99+46, 58' RT															122					
169	R-1	WILSON RD	99+30, 54' LT	99+46, 58' RT								113												
169	IC-4	WILSON RD	99+30, 54' LT															1						
169	TC-1	WILSON RD	99+34, 52' RT	99+34, 52' RT																		3	1	1
169	IC-5	WILSON RD	99+34, 52' RT	99+46, 58' RT	14								14											
WILSON RD. BETWEEN STA. 104+00 AND 126+00																								
170	IC-1	WILSON RD	104+00, 40' LT	126+00, 44' LT						2234		2201							2234					
170	IC-2	WILSON RD	114+20, 55' LT							150														
WILSON RD. BETWEEN STA. 126+00 AND 135+00, INT 4236																								
171	IC-1	WILSON RD	126+00, 44' LT	132+33, 51' LT						642		633							642					
171	CTV-1	WILSON RD	131+12, 42' RT																		1			
171	EC-1	WILSON RD	131+12, 42' RT	132+50, 50' RT															138	138				
171	IC-3	WILSON RD	132+28, 122' RT	132+33, 51' LT						176	176													
171	SE A-1	WILSON RD	132+33, 51' LT							225						1								
171	IC-2	WILSON RD	132+33, 51' LT	132+45, 130' LT						81	81													
171	IC-4	WILSON RD	132+33, 51' LT	132+50, 50' RT								103							105					
171	IC-5	WILSON RD	132+33, 51' LT	132+68, 43' RT													1							
171	EC-2	WILSON RD	132+50, 50' RT																	35				
171	EC-3	WILSON RD	132+50, 50' RT	132+68, 43' RT																19				
171	IC-6	WILSON RD	132+50, 50' RT	132+68, 43' RT	19								19											
171	TC-1	WILSON RD	132+68, 43' RT																	10		3	1	1
SHEET TOTAL					48	7	1	7	1	7305	257	6652	48	192	3	1	3	1	6924	202	1	10	4	4

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

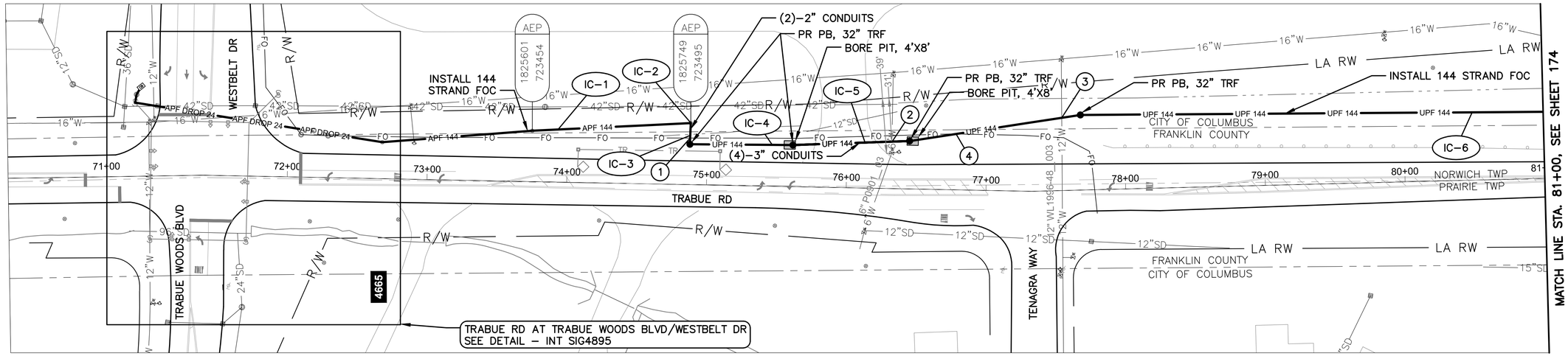
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PID NUMBER: 14522

WILSON RD. BTW STA. 71+00 AND 135+00
INTS 4137, 4138, 4237, 4236

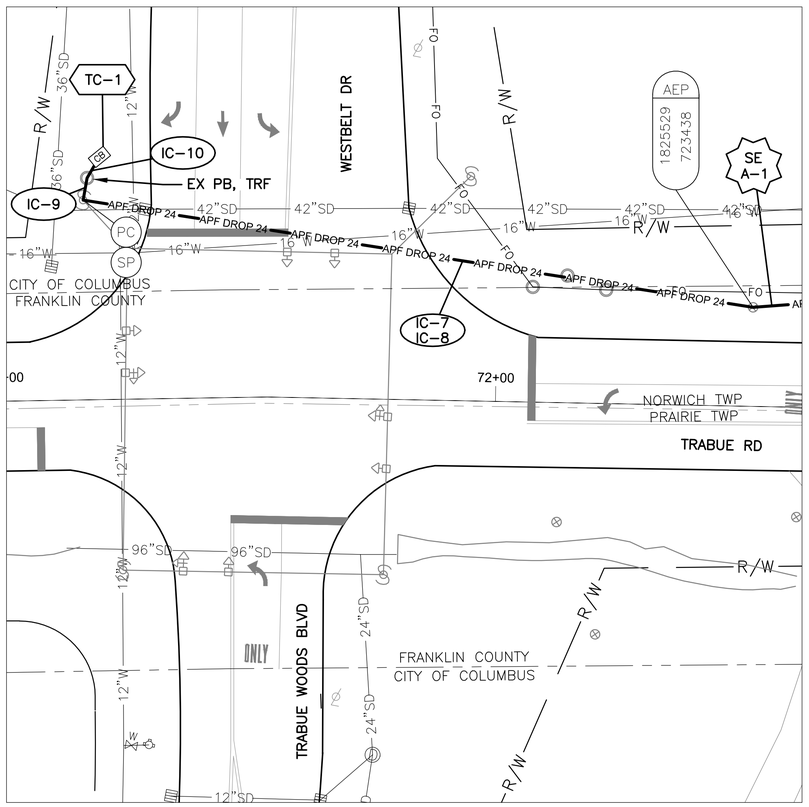
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

172
911

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TRABUE RD BETWEEN STATION 70+25 AND 81+00



DETAIL - INT SIG4895

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

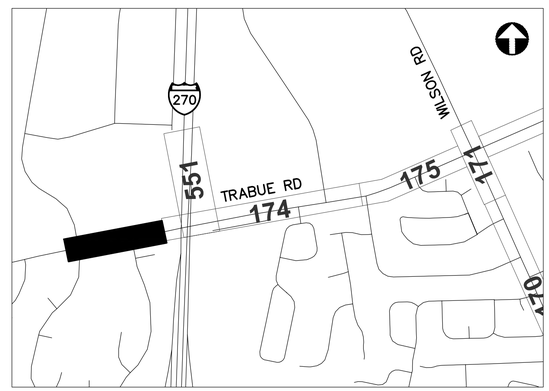
1. SEE SHEET 178 FOR QUANTITIES.
2. SEE SHEETS 599 & 630 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW CONDUIT FROM EXISTING PULL BOX INTO SIDE OF CONTROLLER CABINET.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 12.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☒ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

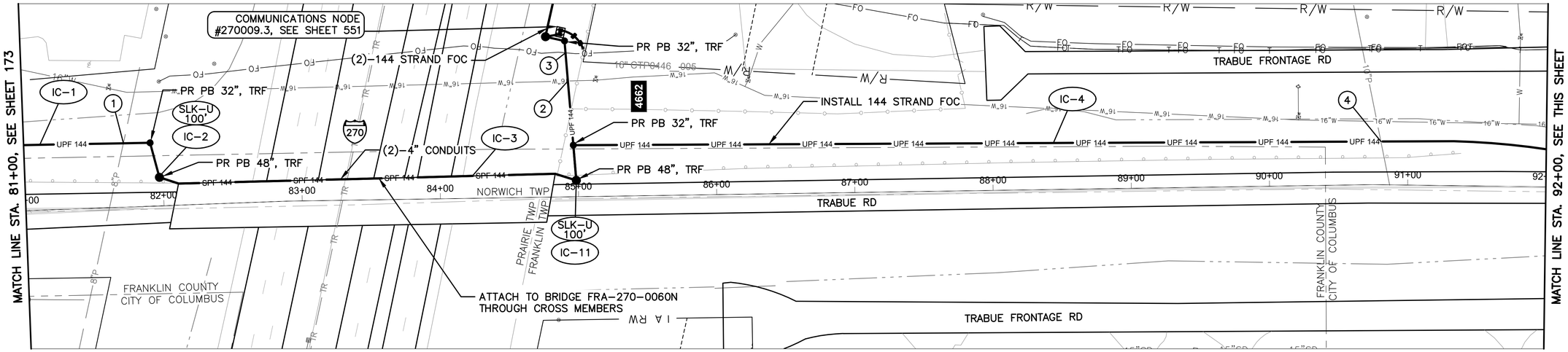
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PID NUMBER: 14522

INTERCONNECT PLAN
TRABUE RD BETWEEN STA. 70+25 AND 81+00, INT SIG4895

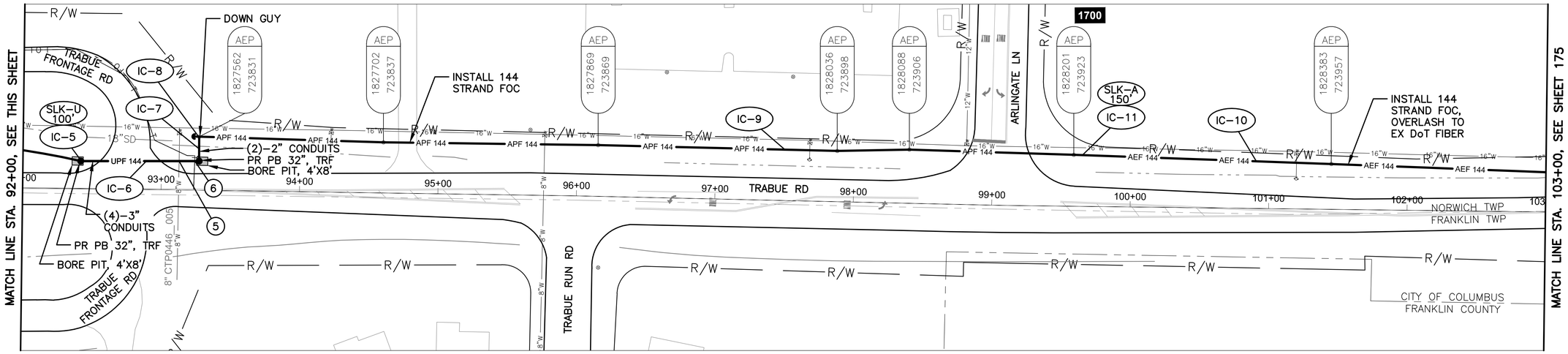
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

173
911

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TRABUE RD BETWEEN STATION 81+00 AND 92+00



TRABUE RD BETWEEN STATION 92+00 AND 103+00

NOTES:

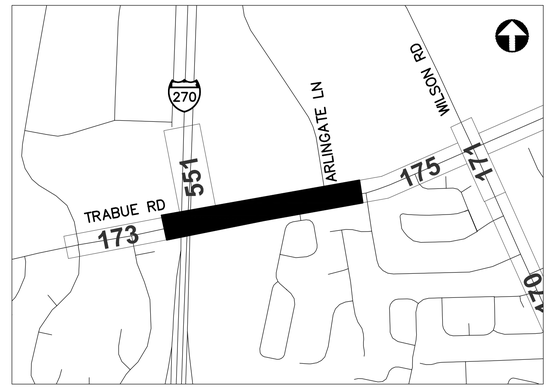
1. SEE SHEET 178 FOR QUANTITIES.
2. SEE SHEET 599 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTEND OF VIEWS SHOWN ABOVE.
4. SEE SHEET 552 FOR NODE QUANTITIES.
5. SEE SHEET 290 FOR POWER SERVICE DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 12.

UNDERGROUND UTILITIES
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- [X] SEWER
- [X] WATER
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

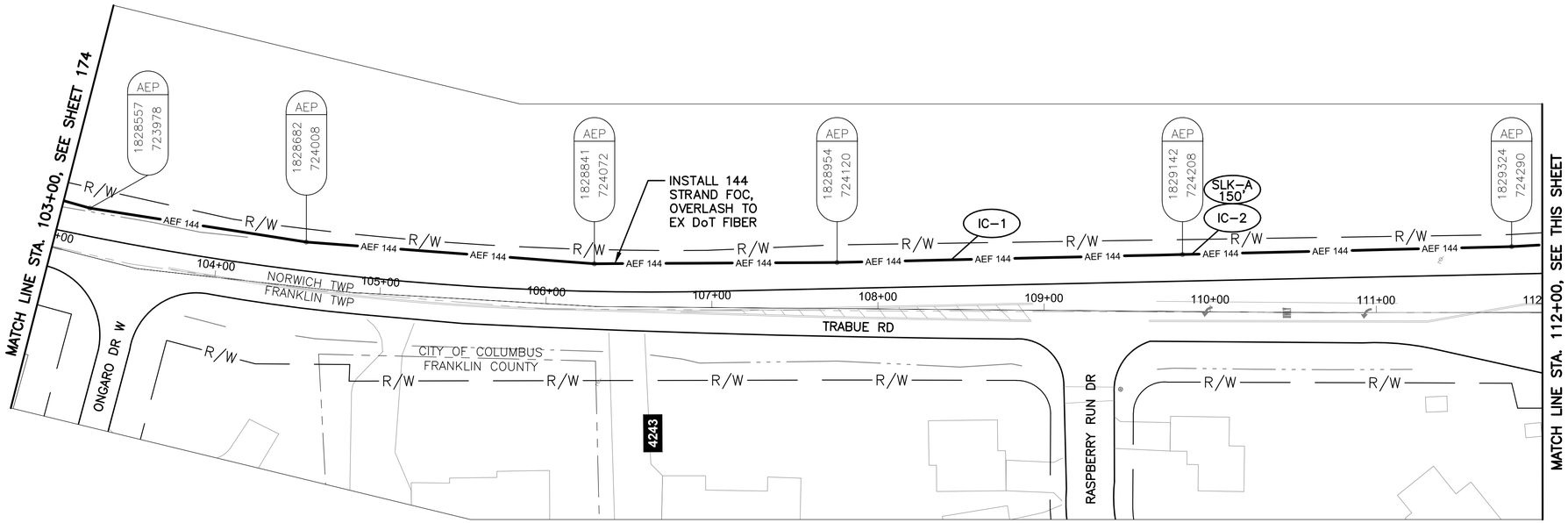
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
TRABUE RD BETWEEN STA. 81+00 AND 103+00

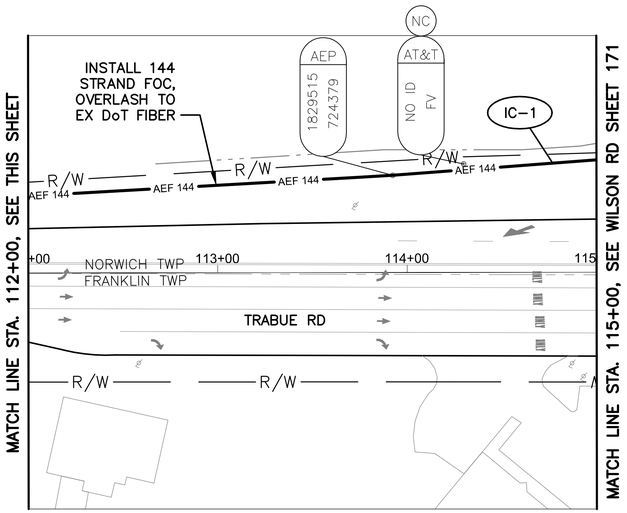
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

174
911

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TRABUE RD BETWEEN STATION 103+00 AND 112+00



TRABUE RD BETWEEN STATION 112+00 AND 115+00

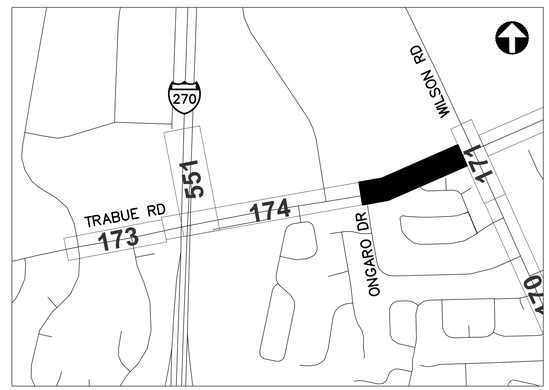
NOTES:

1. SEE SHEET 178 FOR QUANTITIES.
2. SEE SHEET 599 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

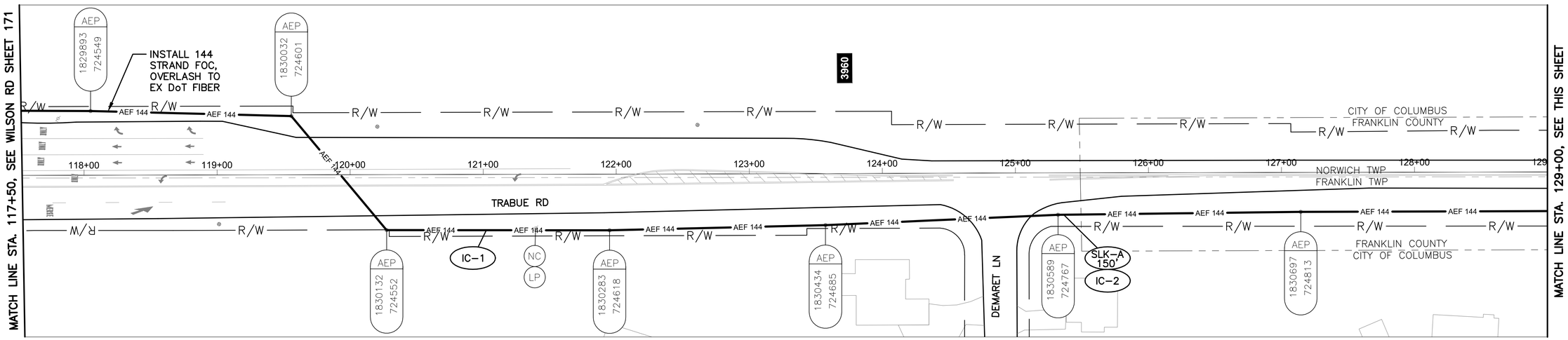
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
HAGUE AVE AT TRABUE RD BETWEEN STA. 103+00 AND 115+00

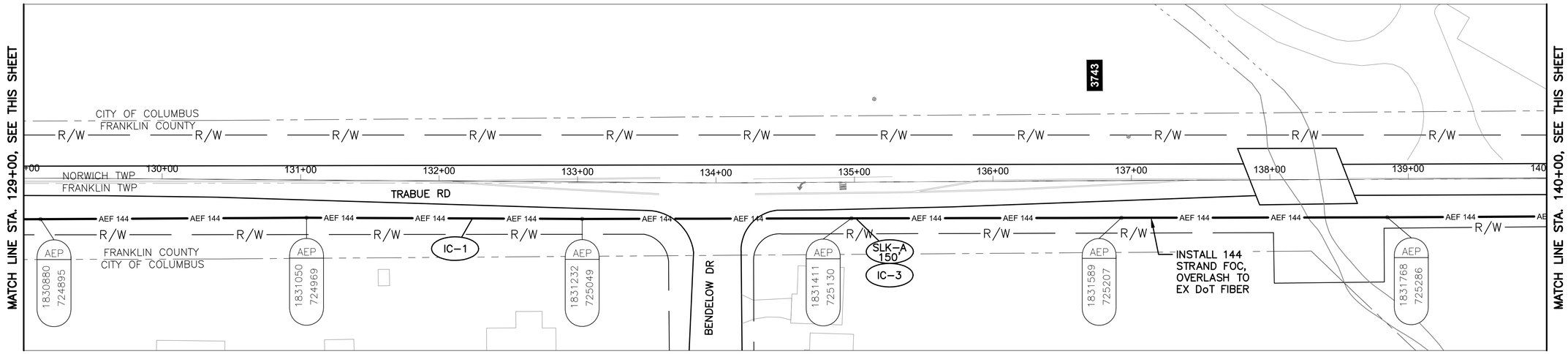
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(CTSS) PHASE C - CONSTRUCTION AS-BUILT

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911

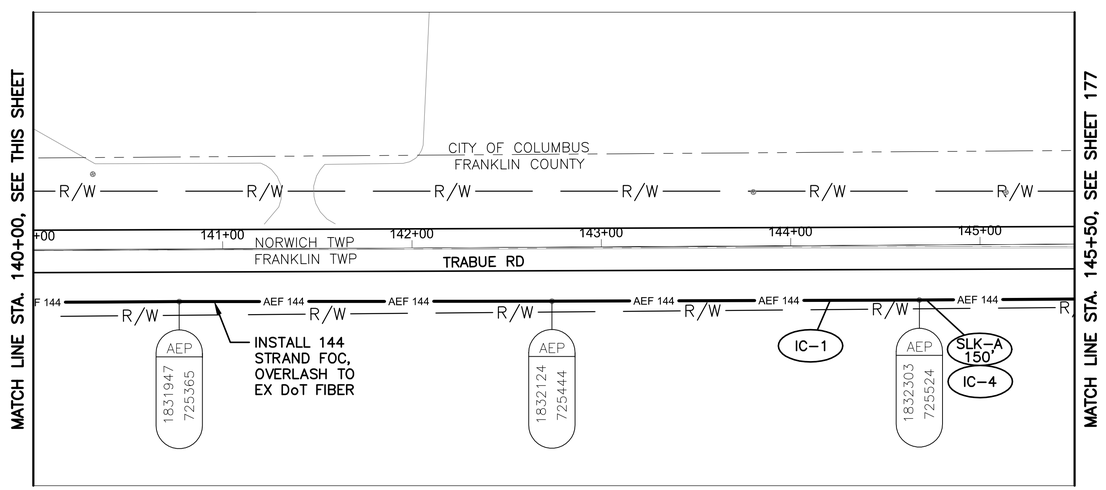
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TRABUE RD BETWEEN STATION 117+50 AND 129+00



TRABUE RD BETWEEN STATION 129+00 AND 140+00



TRABUE RD BETWEEN STATION 140+00 AND 145+50

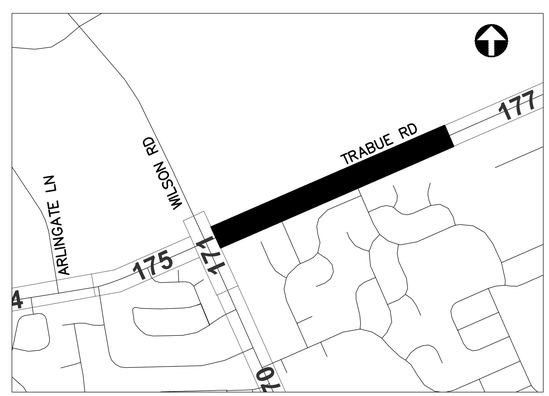
NOTES:

1. SEE SHEET 178 FOR QUANTITIES.
2. SEE SHEET 599 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

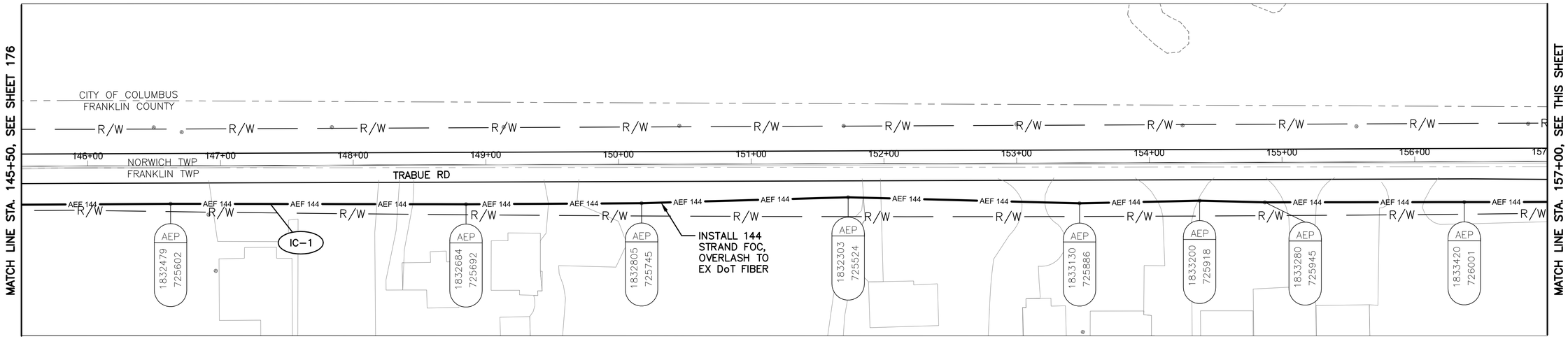
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INTERCONNECT PLAN
TRABUE RD BETWEEN STA. 117+50 AND 145+50

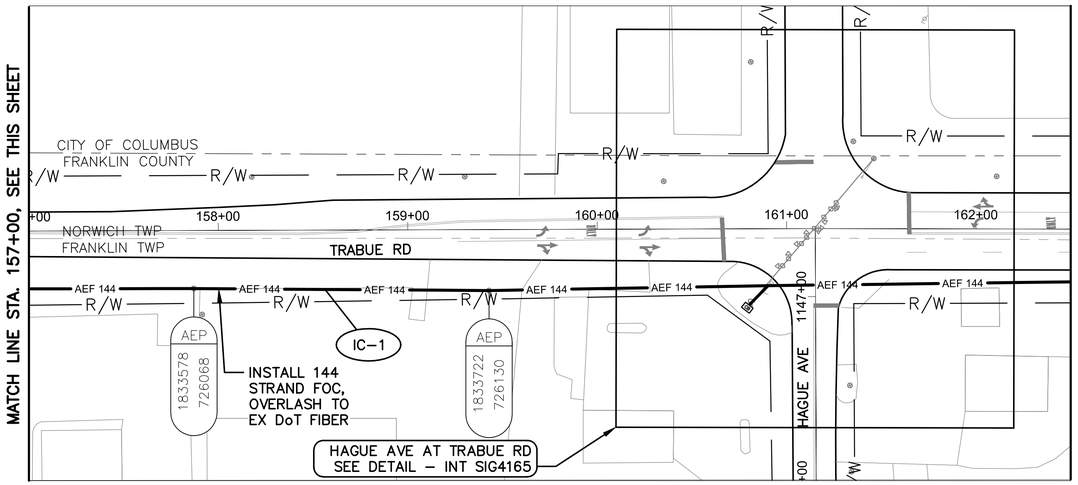
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

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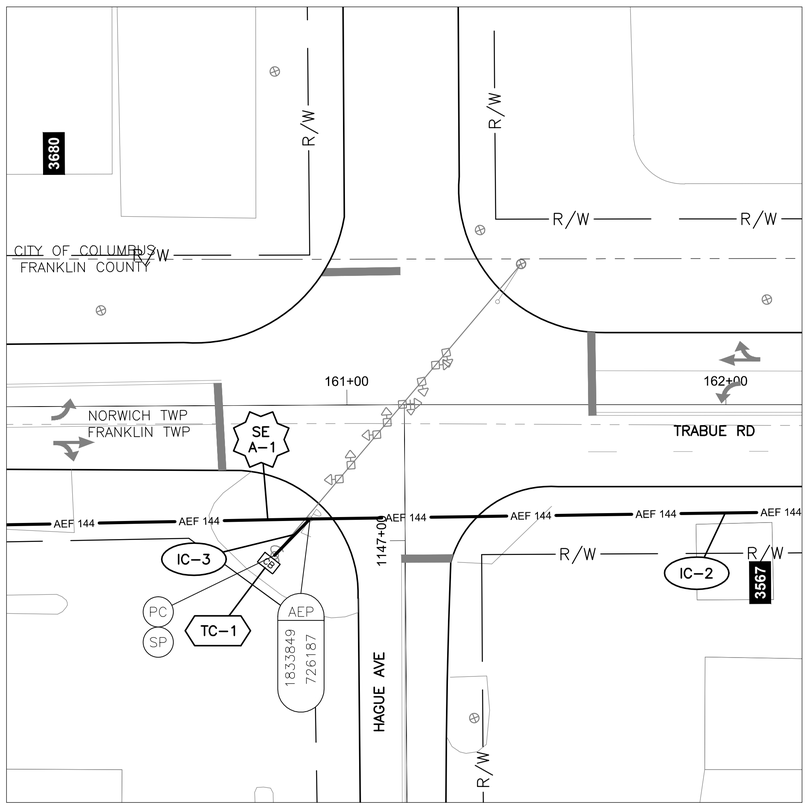
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TRABUE RD BETWEEN STATION 145+50 AND 157+00



TRABUE RD BETWEEN STATION 157+00 AND 162+50

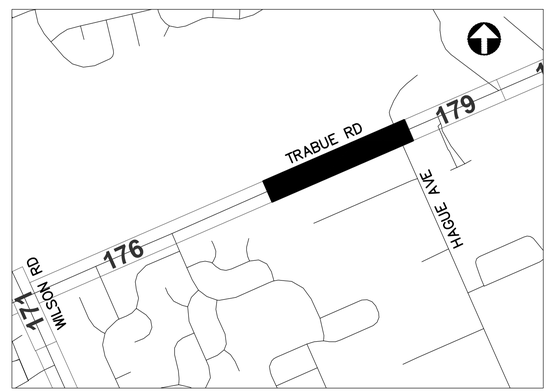


DETAIL - INT SIG4165

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 178 FOR QUANTITIES.
2. SEE SHEETS 599 & 638 FOR COMMUNICATION DETAILS.



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
TRABUE RD BETWEEN STA 145+50 AND 162+50, INT SIG4165

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

2953-E

177
911

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_TRABUE_INTERCONNECT.dwg – TRABUE 4 layout ~ last saved by: sdlowry 05/10/2016 03:55pm ~ printed 05/08/2017 08:33am

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	625	625	625	632	632	632	632	632	632	632	632	633	633	633	633	633
			FROM	TO	EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, 2", AS PER PLAN	CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	CONDUIT, MISC.: 4" CONDUIT, FIBER-GLASS REINFORCED, ATTACHED TO STRUCTURE	PULL BOX, 32", AS PER PLAN	PULL BOX, 48", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT RISER, 3", 725.04, AS PER PLAN	DOWN GUY	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 450FT DROP CABLE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	CABINET, POLE MOUNTED, TYPE TS-2, AS PER PLAN	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN
					FT	FT	FT	FT	FT	EACH	EACH	FT	EACH	EACH	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH
TRABUE RD. BETWEEN STA. 70+25 AND 81+00, INT SIG4895																									
173	IC-7	TRABUE RD	71+21, 53' LT	72+96, 26' LT																182					
173	IC-9	TRABUE RD	71+21, 53' LT	71+21, 59' LT	6																				
173	IC-10	TRABUE RD	71+21, 59' LT	71+25, 64' LT		6																			
173	IC-8	TRABUE RD	71+25, 64' LT	72+96, 26' LT															1						
173	TC-1	TRABUE RD	71+25, 64' LT																			2	1	1	
173	SE A-1	TRABUE RD	72+96, 26' LT												75		1								
173	IC-1	TRABUE RD	72+96, 26' LT	74+88, 44' LT											224					224					
173	IC-2	TRABUE RD	74+88, 44' LT										2		35										
173	IC-3	TRABUE RD	74+88, 44' LT	74+88, 20' LT		48				1		24			24										
173	IC-4	TRABUE RD	74+88, 20' LT	75+66, 22' LT			79					79			79										
173	IC-5	TRABUE RD	75+66, 22' LT	76+45, 22' LT			316			2					79										
173	IC-6	TRABUE RD	76+45, 22' LT	81+00, 30' LT			453					453			453										
TRABUE RD. BETWEEN STA. 81+00 AND 103+00																									
174	IC-1	TRABUE RD	81+00, 30' LT	81+96, 14' LT			98					98			98										
174	IC-2	TRABUE RD	81+96, 14' LT								1				100										
174	IC-3	TRABUE RD	81+96, 14' LT	84+98, 12' LT					1212						303										
174	IC-4	TRABUE RD	84+98, 12' LT	92+41, 20' LT			744					744			744										
174	IC-11	TRABUE RD	84+98, 12' LT								1				100										
174	IC-5	TRABUE RD	92+41, 20' LT							1					100										
174	IC-6	TRABUE RD	92+41, 20' LT	93+27, 21' LT				340		1					85										
174	IC-8	TRABUE RD	93+26, 39' LT										2	1	35										
174	IC-7	TRABUE RD	93+26, 39' LT	93+27, 21' LT		36						18			18										
174	IC-9	TRABUE RD	93+26, 39' LT	99+59, 37' LT											542					542					
174	IC-11	TRABUE RD	99+65, 37' LT												150										
174	IC-10	TRABUE RD	99+59, 37' LT	103+00, 29' LT											346	346									
TRABUE RD. BETWEEN STA. 103+00 AND 115+00																									
175	IC-1	TRABUE RD	103+00, 29' LT	115+00, 58' LT											1212	1212									
175	IC-2	TRABUE RD	109+87, 35' LT												150										
TRABUE RD. BETWEEN STA. 117+50 AND 145+50																									
176	IC-1	TRABUE RD	117+50, 49' LT	145+50, 29' RT											2881	2881									
176	IC-2	TRABUE RD	125+36, 31' RT												150										
176	IC-3	TRABUE RD	135+00, 26' RT												150										
176	IC-4	TRABUE RD	144+71, 29' RT												150										
TRABUE RD. BETWEEN STA. 145+50 AND 162+50, INT SIG4165																									
177	IC-1	TRABUE RD	145+50, 29' RT	160+90, 30' RT											1563	1563									
177	TC-1	TRABUE RD	160+80, 40' RT																		1	2	1		1
177	IC-3	TRABUE RD	160+80, 40' RT	160+90, 30' RT														1		9					
177	SE A-1	TRABUE RD	160+90, 30' RT												150		1								
177	IC-2	TRABUE RD	160+90, 30' RT	162+50, 28' RT											162	162									
SHEET TOTAL					6	90	1374	656	1212	5	2	1416	4	1	10158	6164	2	1	1	957	1	4	2	1	1

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

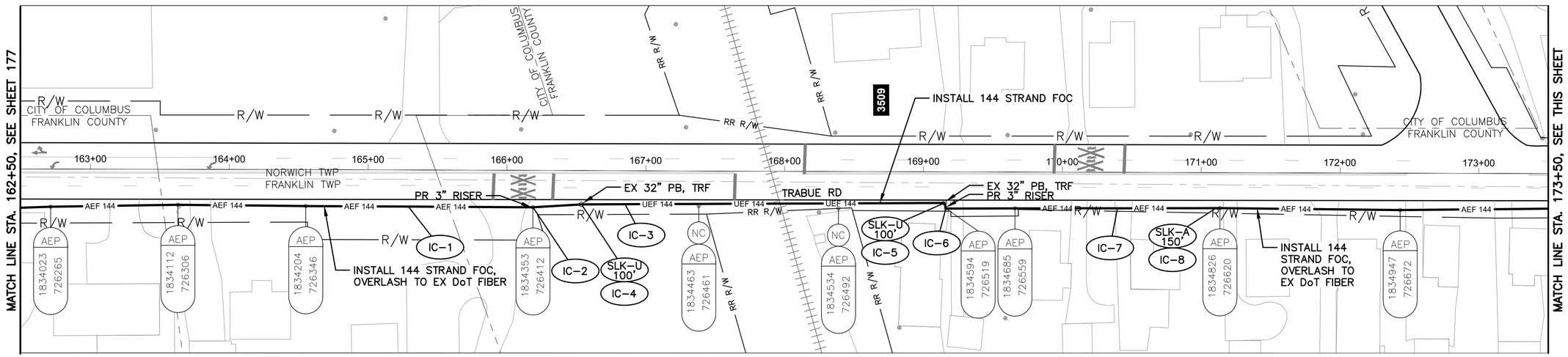
CIP: 540007-100005
PID NUMBER: 14522

TRABUE RD. BTW STA. 70+25 & 115+00, STA. 117+50 & 162+50
INTS SIG4895, SIG4165

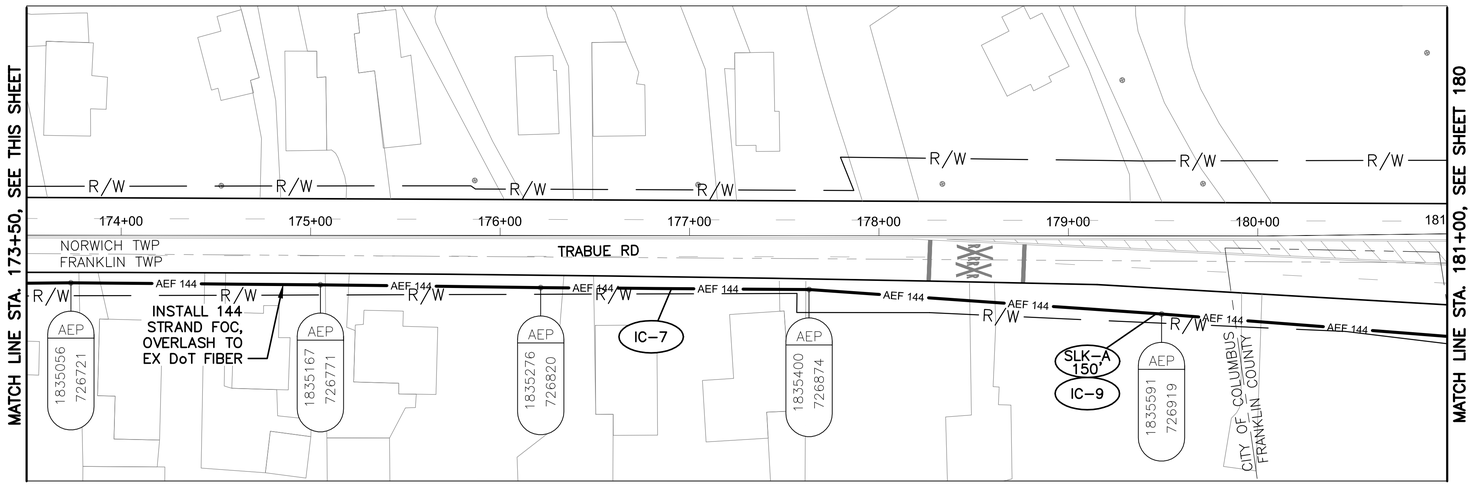
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

178
911

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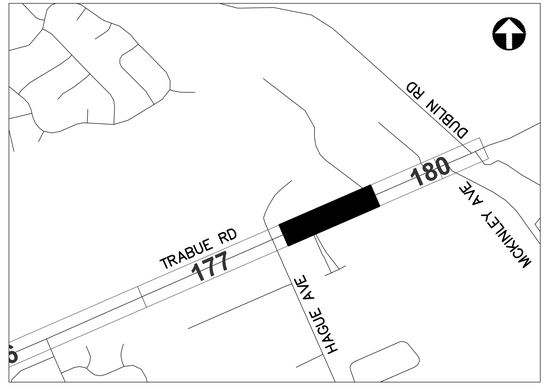
TRABUE RD BETWEEN STATION 162+50 AND 173+50



TRABUE RD BETWEEN STATION 173+50 AND 181+00

NOTES:

1. SEE SHEET 183 FOR QUANTITIES.
2. SEE SHEET 599 FOR COMMUNICATION DETAILS.



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

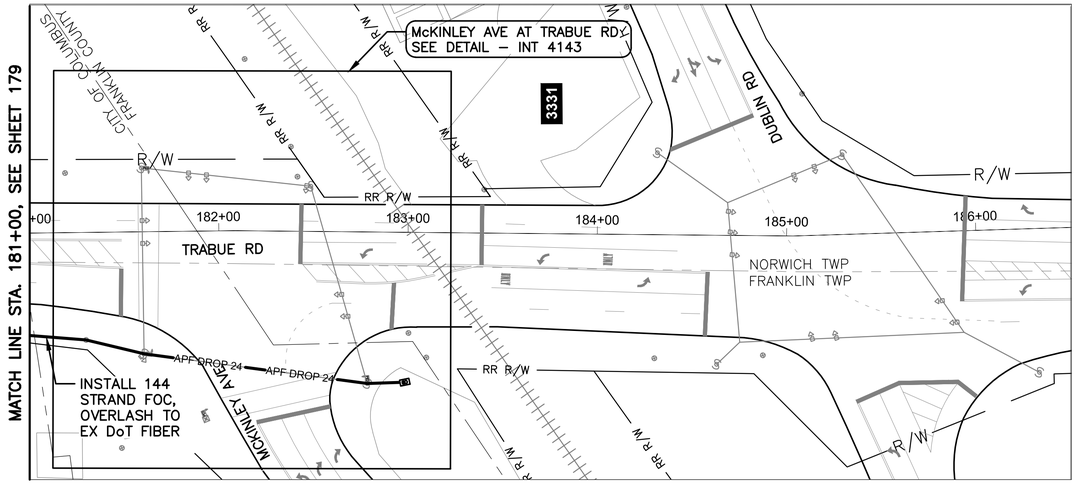
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PID NUMBER: 14522

INTERCONNECT PLAN
TRABUE RD BETWEEN STA 162+50 AND 181+00

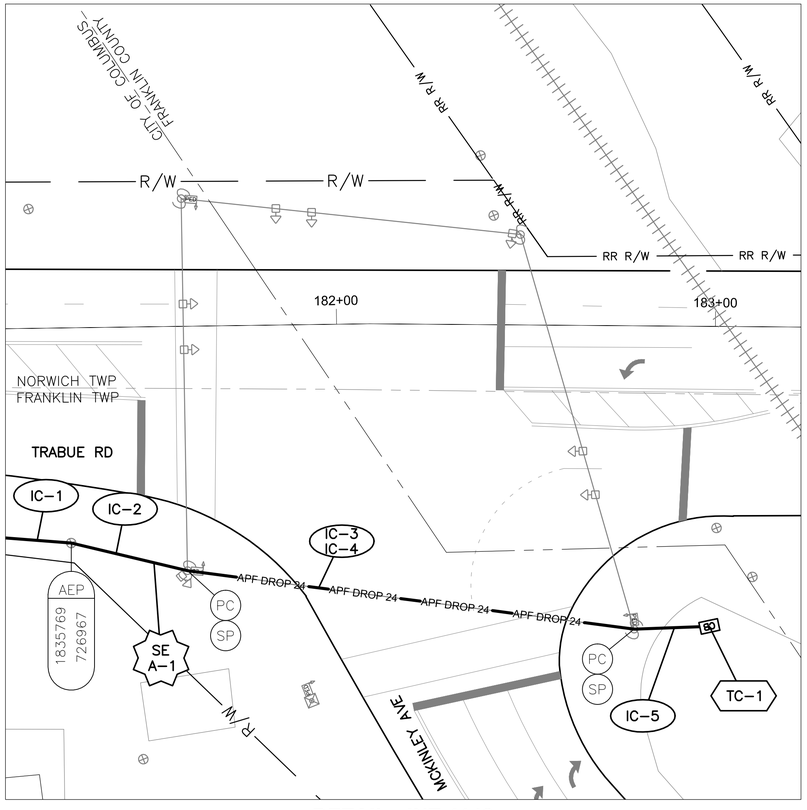
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c - CONSTRUCTION AS-BUILT

179
911

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TRABUE RD BETWEEN STATION 181+00 AND 186+50



DETAIL - INT 4143

0 20 40

HORIZONTAL
SCALE IN FEET

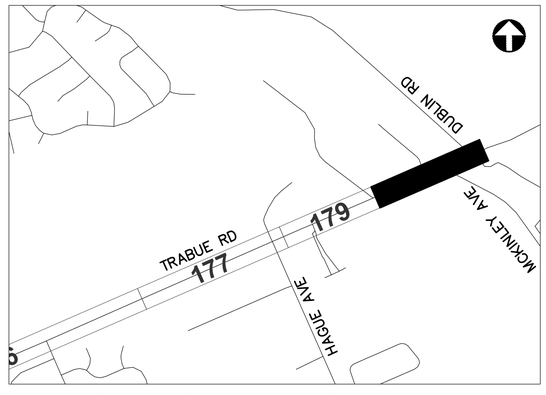
NOTES:

1. SEE SHEET 183 FOR QUANTITIES.
2. SEE SHEETS 599 & 639 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

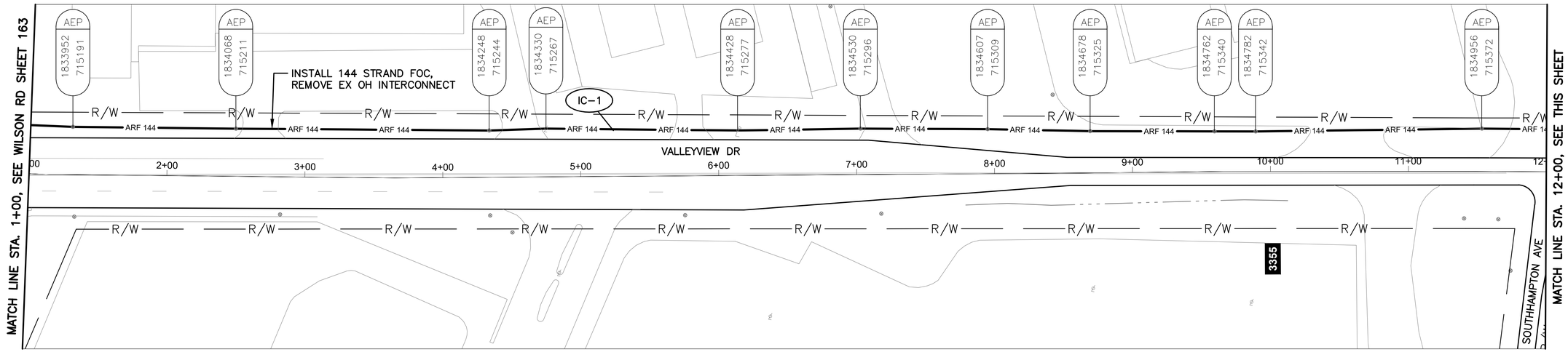
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
TRABUE RD BETWEEN STA 181+00 AND 186+50, INTS 4143

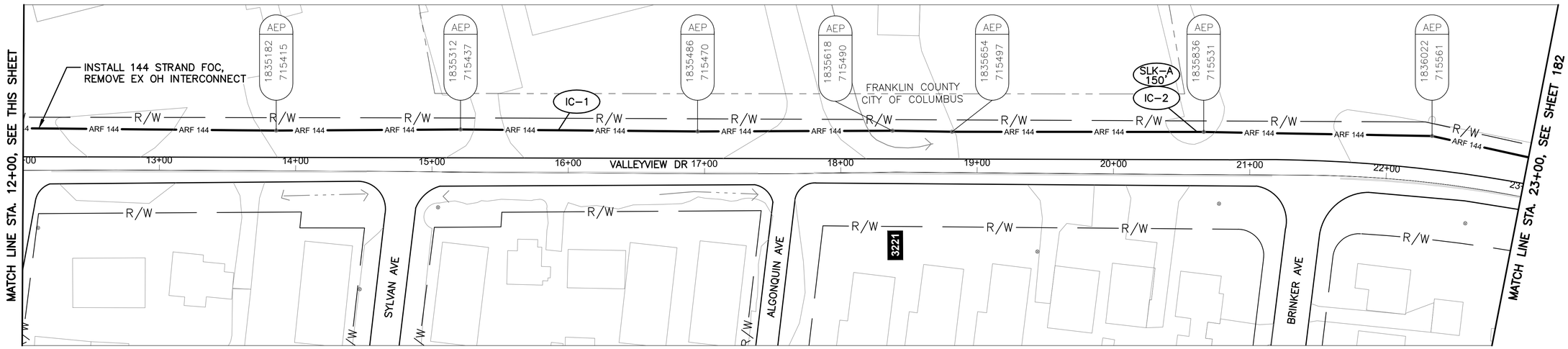
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

180
911

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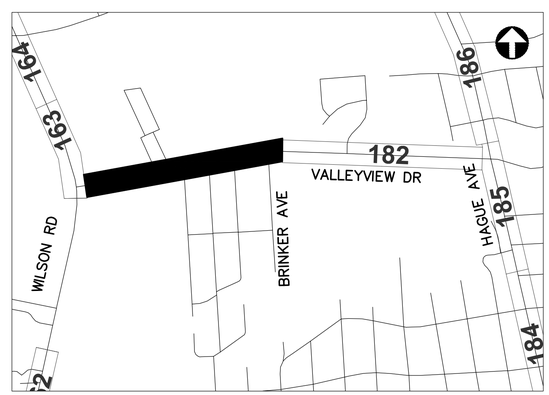
VALLEYVIEW DR BETWEEN STATION 1+00 AND 12+00



VALLEYVIEW DR BETWEEN STATION 12+00 AND 23+00

NOTES:

1. SEE SHEET 183 FOR QUANTITIES.
2. SEE SHEET 599 FOR COMMUNICATION DETAILS.



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

UNDERGROUND UTILITIES
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CALL TOLL FREE 800-362-2764
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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

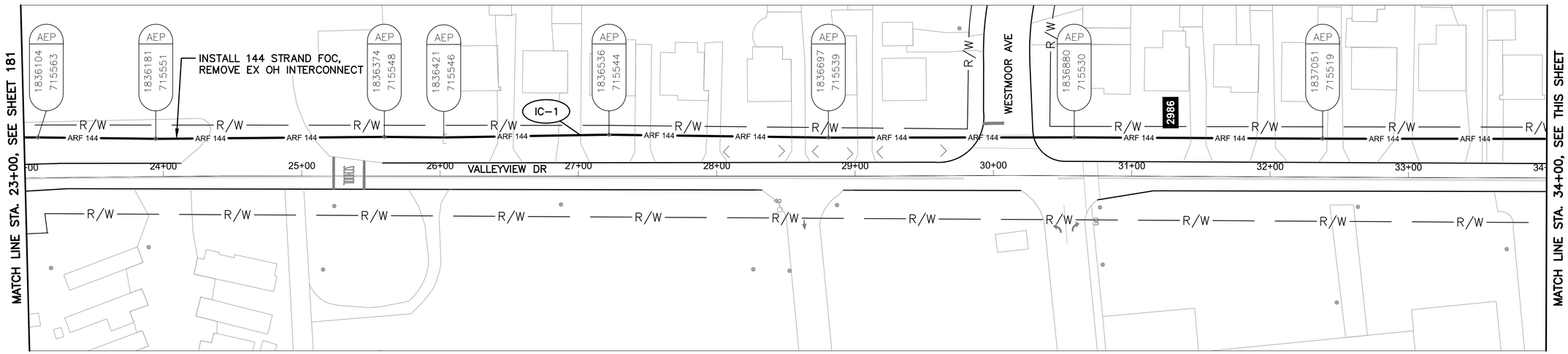
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
VALLEYVIEW DR BETWEEN STA. 1+00 AND 23+00

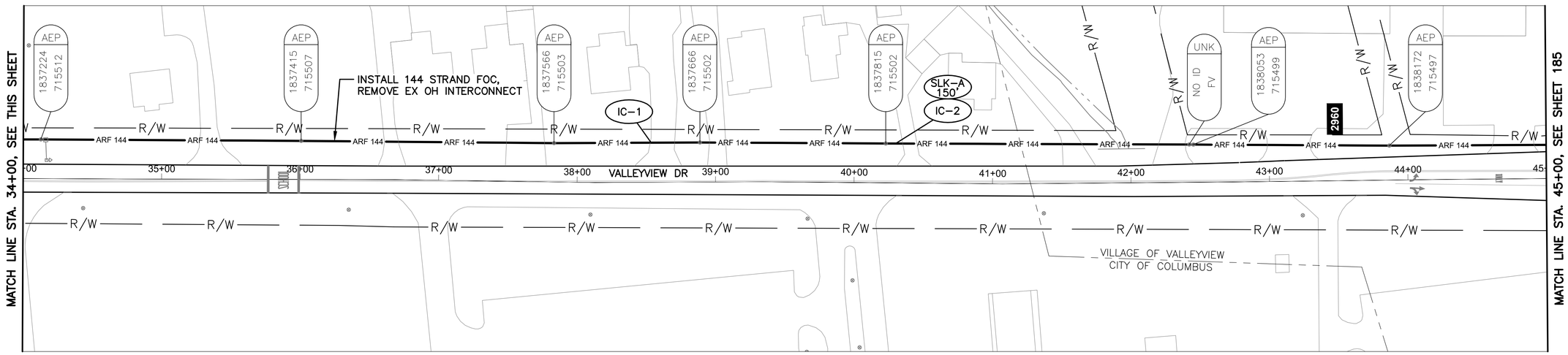
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

181
911

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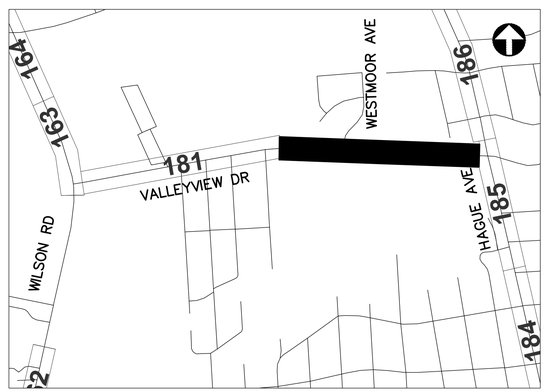
VALLEYVIEW DR BETWEEN STATION 23+00 AND 34+00



VALLEYVIEW DR BETWEEN STATION 34+00 AND 45+00

NOTES:

1. SEE SHEET 183 FOR QUANTITIES.
2. SEE SHEET 599 FOR COMMUNICATION DETAILS.



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
VALLEYVIEW DR BETWEEN STA. 23+00 AND 45+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

182
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	632	633	633	633										
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT RISER, 3", 725.04, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN								
			FROM	TO	FT	EACH	FT	FT	FT	EACH	EACH	FT	EACH	EACH	EACH									
TRABUE RD. BETWEEN STA. 162+50 AND 181+00																									
179	IC-1	TRABUE RD	162+50, 28' RT	166+18, 27' RT			375	375																	
179	IC-2	TRABUE RD	166+18, 27' RT			1	35																		
179	IC-3	TRABUE RD	166+18, 27' RT	169+16, 26' RT	301		301																		
179	IC-4	TRABUE RD	166+54, 24' RT				100																		
179	IC-5	TRABUE RD	169+15, 22' RT				100																		
179	IC-6	TRABUE RD	169+16, 26' RT			1	35																		
179	IC-7	TRABUE RD	169+16, 26' RT	181+00, 54' RT			1203	1203																	
179	IC-8	TRABUE RD	171+10, 26' RT				150																		
179	IC-9	TRABUE RD	179+46, 41' RT				150																		
TRABUE RD. BETWEEN STA. 181+00 AND 186+50, INT 4143																									
180	IC-1	TRABUE RD	181+00, 54' RT	181+30, 57' RT			30	30																	
180	IC-2	TRABUE RD	181+30, 57' RT	181+59, 65' RT			32					32													
180	SE A-1	TRABUE RD	181+59, 65' RT				75			1															
180	IC-3	TRABUE RD	181+59, 65' RT	182+79, 80' RT								121													
180	IC-4	TRABUE RD	181+59, 65' RT	182+99, 79' RT							1														
180	IC-5	TRABUE RD	182+79, 80' RT	182+99, 79' RT	20																				
180	TC-1	TRABUE RD	182+99, 79' RT										2	1	1										
VALLEYVIEW DR. BETWEEN STA. 1+00 AND 23+00																									
181	IC-1	VALLEYVIEW DR	1+00, 35' LT	23+00, 29' LT			2238		2204			2238													
181	IC-2	VALLEYVIEW DR	20+81, 31' LT				150																		
VALLEYVIEW DR. BETWEEN STA. 23+00 AND 45+00																									
182	IC-1	VALLEYVIEW DR	23+00, 29' LT	45+00, 24' LT			2234		2200			2234													
182	IC-2	VALLEYVIEW DR	38+93, 29' LT				150																		
SHEET TOTAL					321	2	7358	1608	4404	1	1	4625	2	1	1	-	-	-	-	-	-	-	-	-	-

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

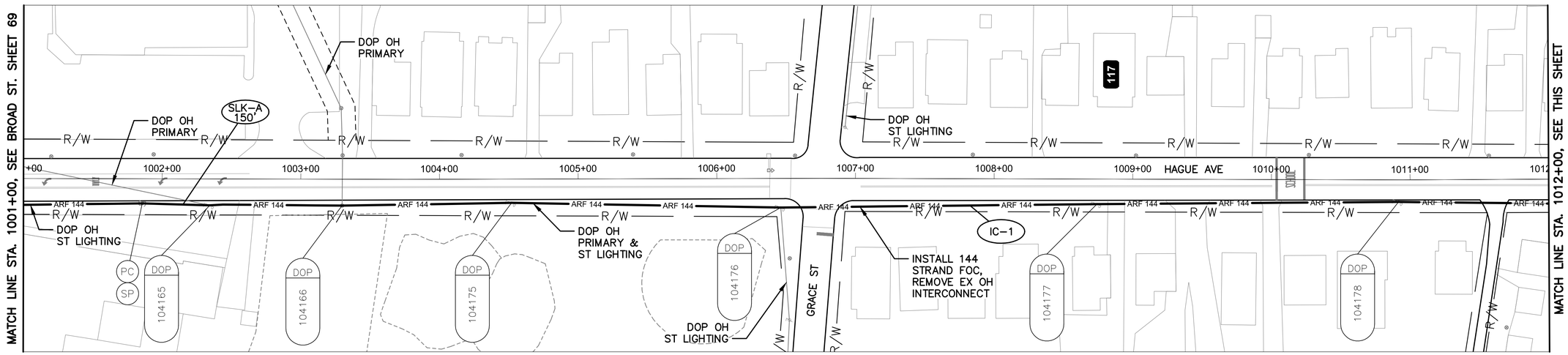
CIP: 540007–100005
PID NUMBER: 14522

TRABUE RD. BTW STA. 162+50 & 181+00
VALLEYVIEW DR. BTW STA. 1+00 & 45+00
TRABUE RD. BTW STA. 162+50 & 186+50, INT 4143
VALLEYVIEW DR. BTW STA. 1+00 & 45+00

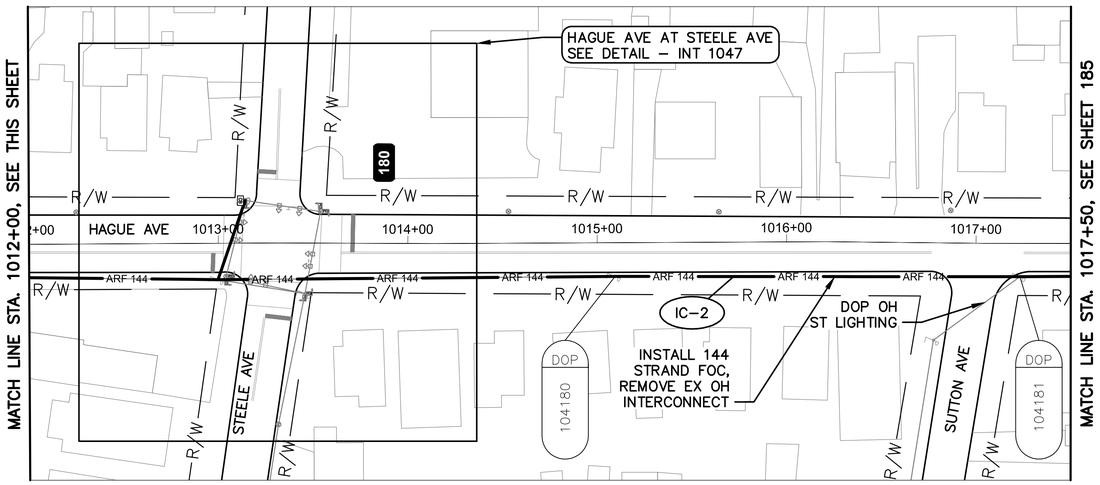
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

183
911

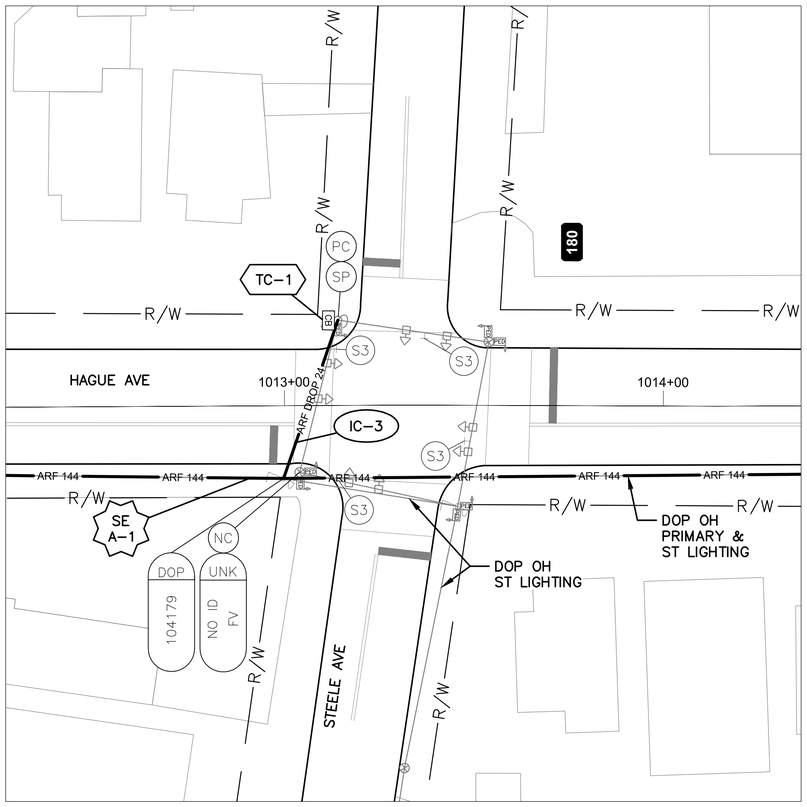
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HAGUE AVE BETWEEN STATION 1001+00 AND 1012+00



HAGUE AVE BETWEEN STATION 1012+00 AND 1017+50

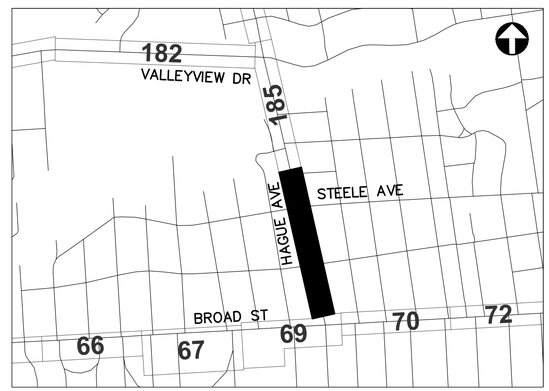


DETAIL - INT 1047

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 187 FOR QUANTITIES.
2. SEE SHEETS 599 & 646 FOR COMMUNICATION DETAILS.



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

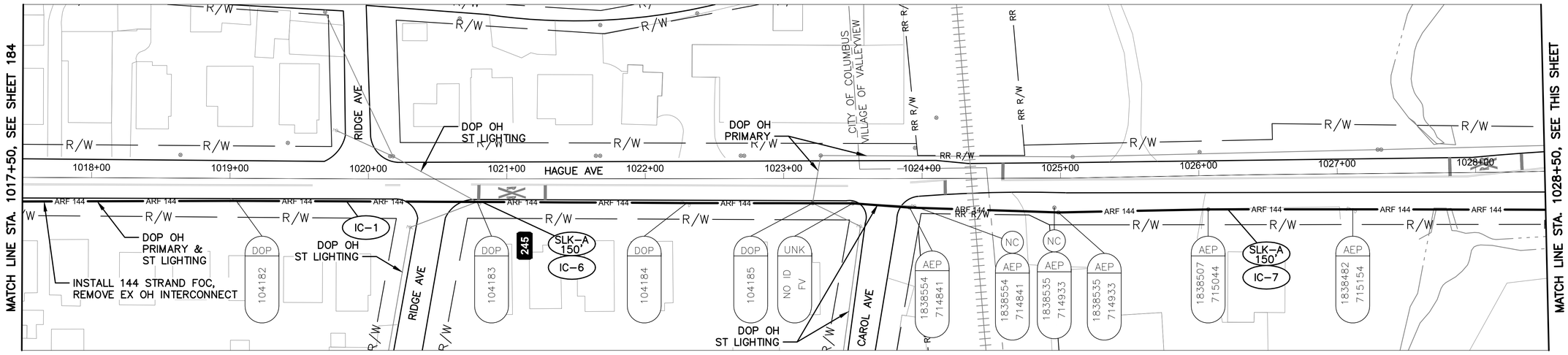
INTERCONNECT PLAN
HAGUE AVE BETWEEN STA. 1001+00 AND 1017+50, INT 1047

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

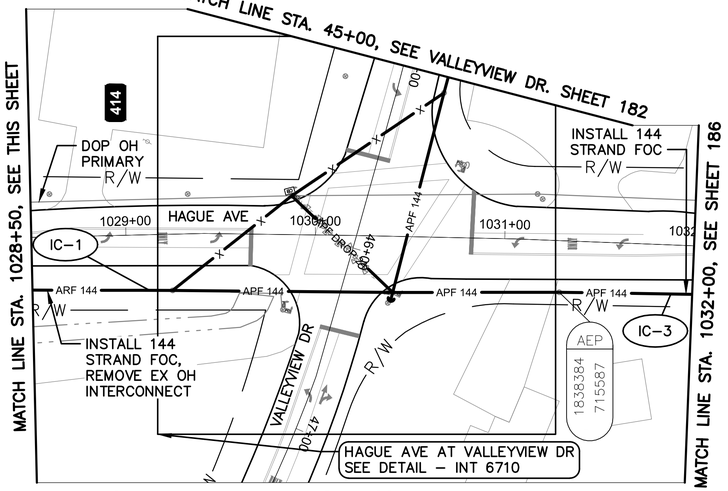
184
911

2953-E

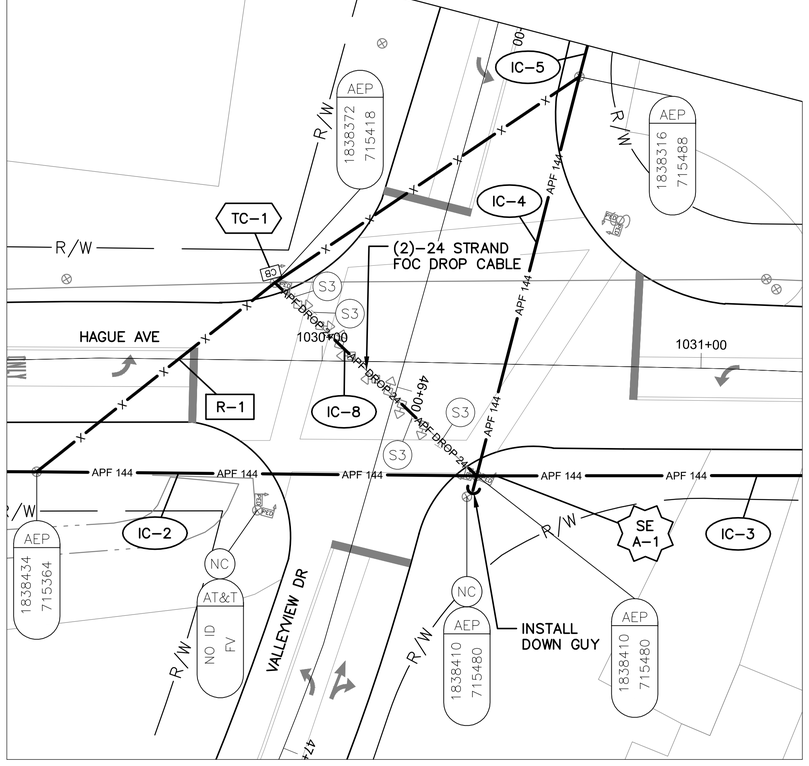
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HAGUE AVE BETWEEN STATION 1017+50 AND 1028+50



HAGUE AVE BETWEEN STATION 1028+50 AND 1032+00

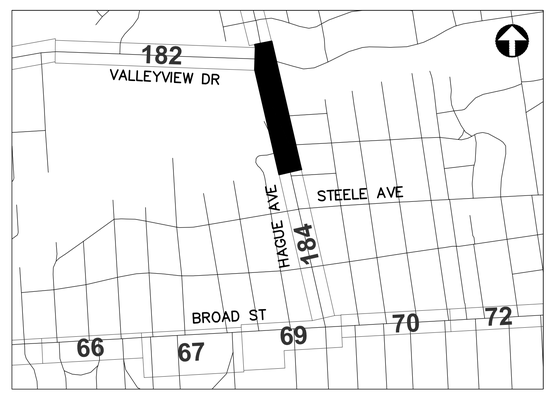


DETAIL - INT 6710

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 187 FOR QUANTITIES.
2. SEE SHEETS 599 & 644 FOR COMMUNICATION DETAILS.
3. FOR THE SPLICE ENCLOSURE AT INT 6710, PROVIDE 75' OF SLACK FROM ALL THREE DIRECTIONS, WITH AN ADDITIONAL 150' OF SLACK FROM ANY ONE DIRECTION FOR THE 375' TOTAL.



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

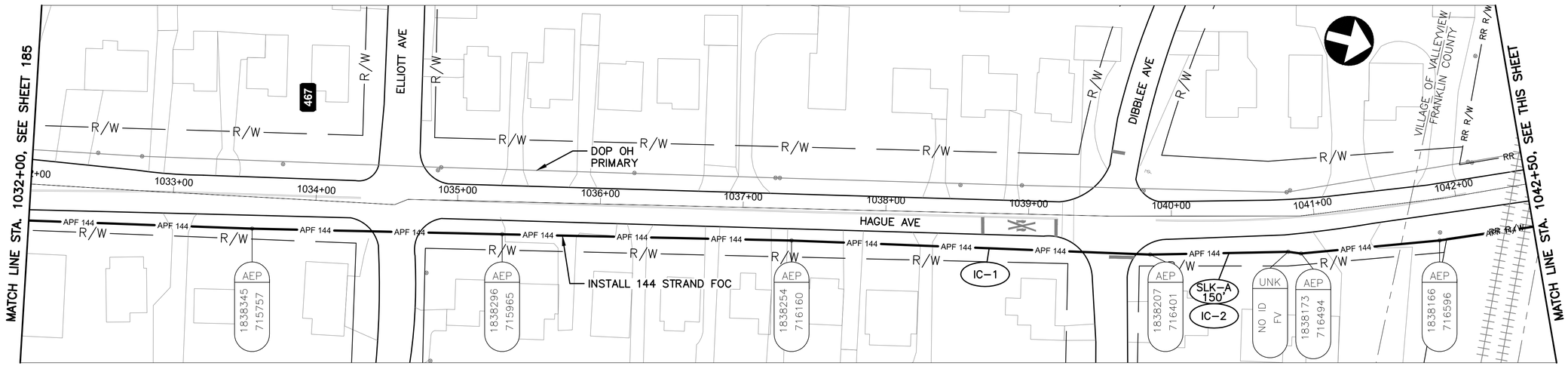
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
HAGUE AVE BETWEEN STA. 1017+50 AND 1032+00, INT 6710

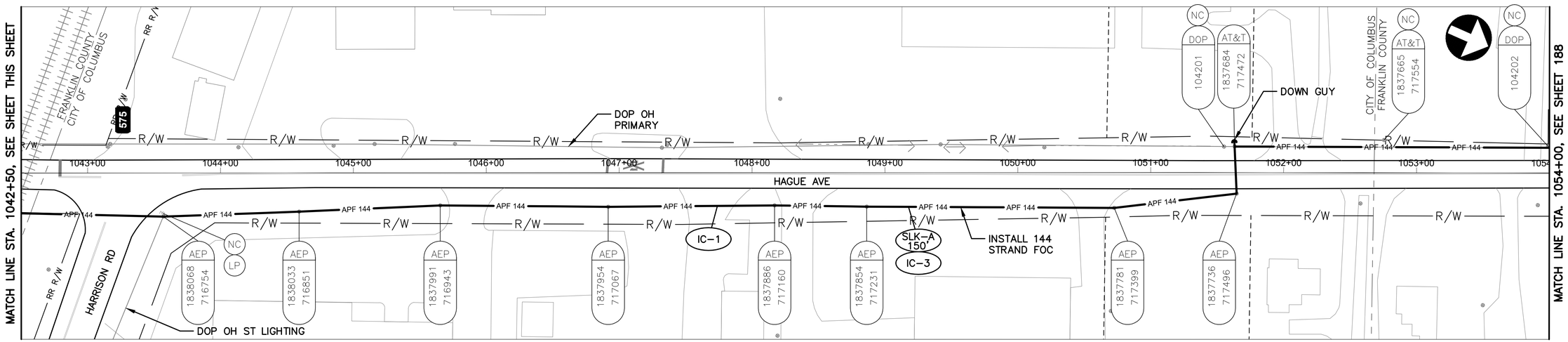
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

185
911

J:\Jobs\508066\TECHPROD\Sheets\CTSS_PhC_HAGUE_INTERCONNECT.dwg – HAGUE 2 layout – last saved by: sdlowry 08/08/2016 12:56pm – printed 05/08/2017 08:38pm



HAGUE AVE BETWEEN STATION 1032+00 AND 1042+50



HAGUE AVE BETWEEN STATION 1042+50 AND 1054+00

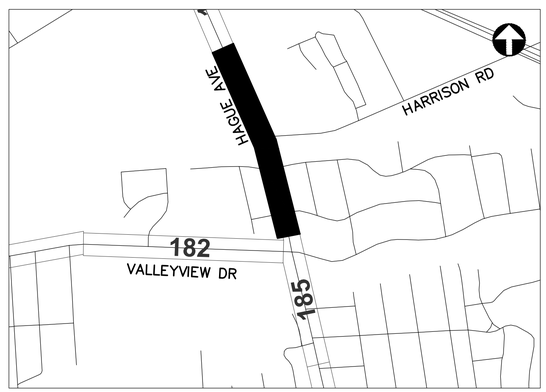
NOTES:

1. SEE SHEET 187 FOR QUANTITIES.
2. SEE SHEET 599 FOR COMMUNICATION DETAILS.
3. CONTRACTOR REQUIRED TO CONTACT NORFOLK SOUTHERN CORP. FOR CROSSING AT STA. 1042+30, 30' RT TO COORDINATE FIBER INSTALLATION. SEE SHEET 18 FOR RAILROAD COORDINATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
HAGUE AVE BETWEEN STA. 1032+00 AND 1054+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

186
911

2953-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632	632	632	632	632	632	632	633	633	633										
					DOWN GUY	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER									
			FROM	TO	EACH	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH										
HAGUE AVE. BETWEEN STA. 1001+00 AND 1017+50, INT 1047																								
184	IC-1	HAGUE AVE	1001+00, 19' RT	1012+99, 19' RT		1218	1200				1218													
184	IC-3	HAGUE AVE	1012+99, 19' RT	1013+14, 23' LT			46			1	47													
184	SE A-1	HAGUE AVE	1012+99, 19' RT			150		1																
184	IC-2	HAGUE AVE	1012+99, 19' RT	1017+50, 17' RT		457	450				457													
184	TC-1	HAGUE AVE	1013+14, 23' LT									2	1	1										
HAGUE AVE. BETWEEN STA. 1017+50 AND 1032+00, INT 6710																								
185	IC-1	HAGUE AVE	1017+50, 17' RT	1029+23, 30' RT		1193	1175				1193													
185	IC-6	HAGUE AVE	1020+82, 17' RT			150																		
185	IC-7	HAGUE AVE	1026+19, 24' RT			150																		
185	R-1	HAGUE AVE	1029+23, 30' RT	1030+66, 76' LT			177																	
185	IC-2	HAGUE AVE	1029+23, 30' RT	1030+41, 30' RT		118					118													
185	TC-1	HAGUE AVE	1029+87, 20' LT									4	1	1										
185	IC-8	HAGUE AVE	1029+87, 20' RT	1030+41, 30' RT						2	74													
185	IC-4	HAGUE AVE	1030+41, 30' RT	1030+66, 76' LT		111					111													
185	SE A-1	HAGUE AVE	1030+41, 30' RT		1	375			1															
185	IC-3	HAGUE AVE	1030+41, 30' RT	1032+00, 26' RT		160					160													
185	IC-5	HAGUE AVE	1030+66, 76' LT	1030+68, 85' LT		9	9				9													
HAGUE AVE. BETWEEN STA. 1032+00 AND 1054+00																								
186	IC-1	HAGUE AVE	1032+00, 26' RT	1054+00, 19' LT	1	2278					2278													
186	IC-2	HAGUE AVE	1040+40, 26' RT			150																		
186	IC-3	HAGUE AVE	1049+17, 23' RT			150																		
SHEET TOTAL					2	6669	3057	1	1	3	5665	6	2	2	-	-	-	-	-	-	-	-	-	-

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

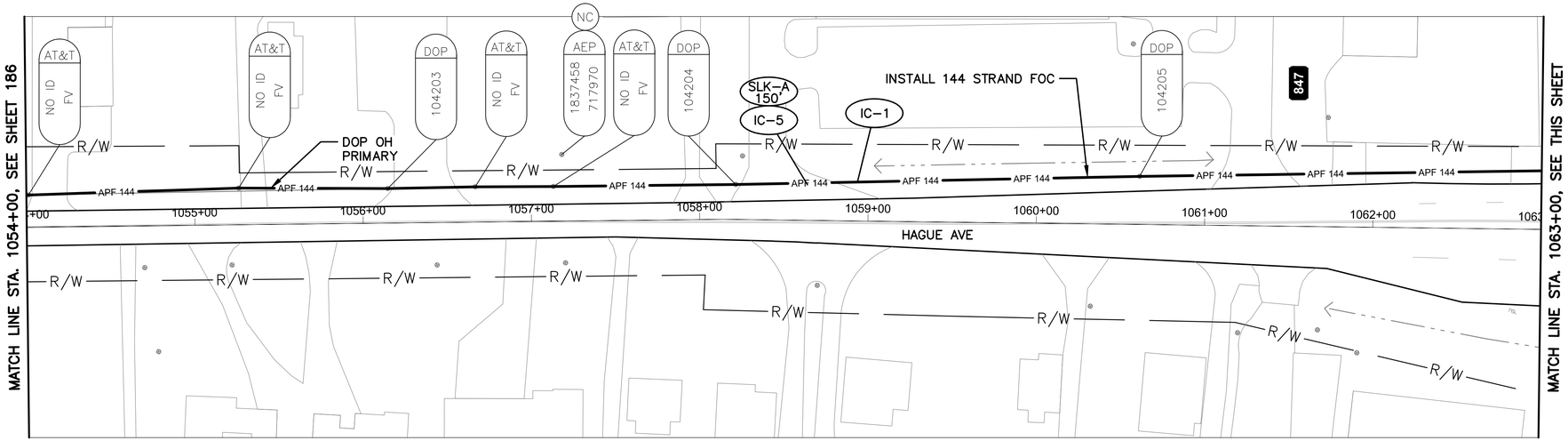
CIP: 540007–100005
PID NUMBER: 14522

HAGUE AVE. BTW STA. 1001+00 AND 1054+00
INTS 1047, 6710

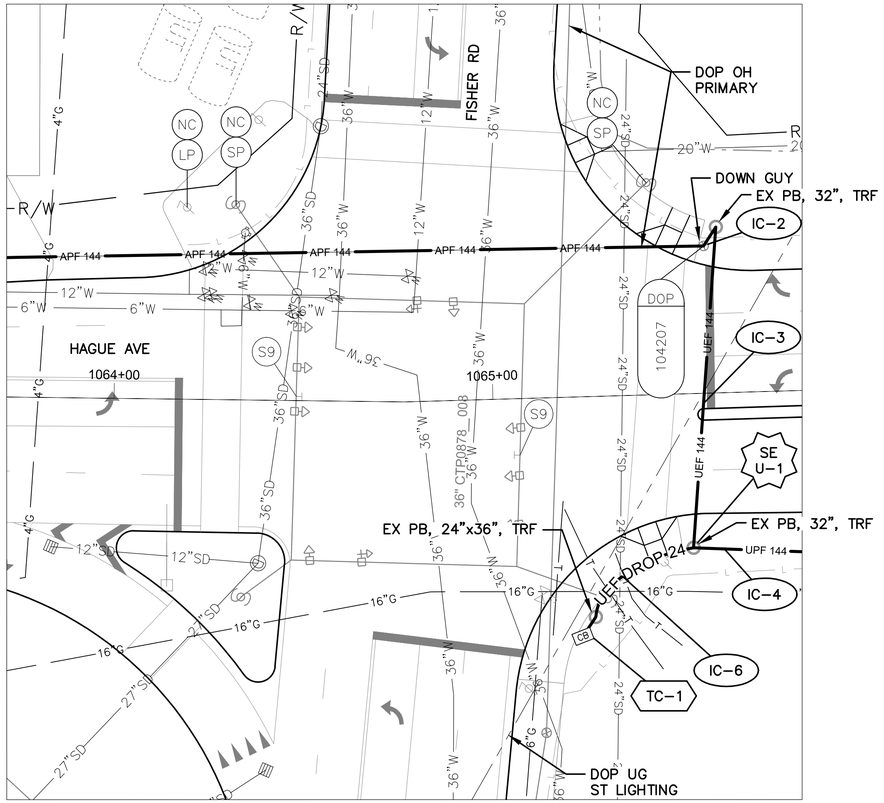
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

187
911

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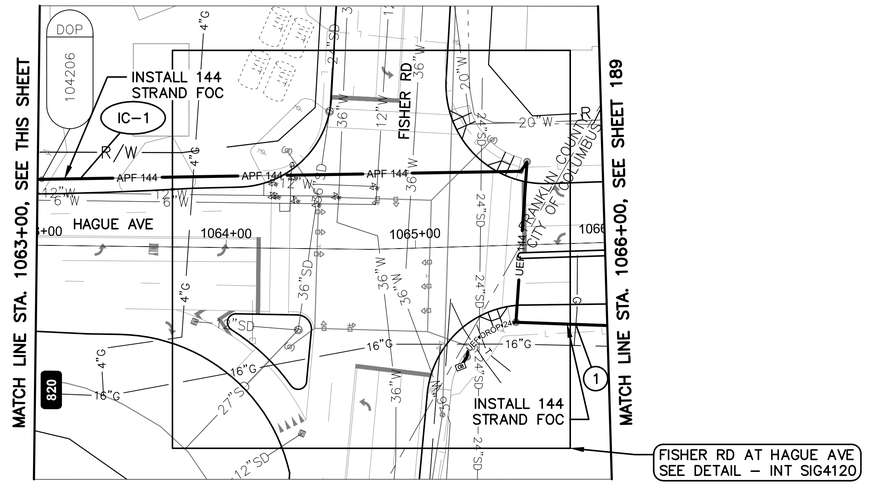


HAGUE AVE BETWEEN STATION 1054+00 AND 1063+00



DETAIL - INT SIG4120

0 20 40
HORIZONTAL SCALE IN FEET



HAGUE AVE BETWEEN STATION 1063+00 AND 1066+00

NOTES:

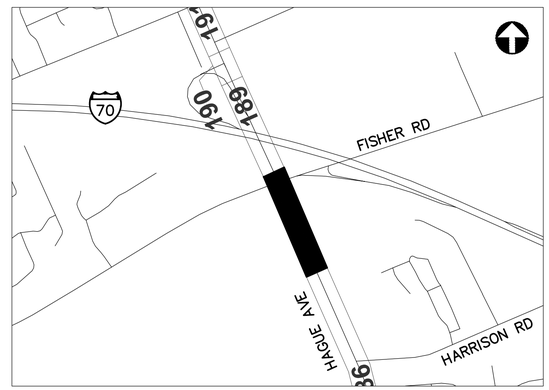
1. SEE SHEETS 192 & 193 FOR QUANTITIES.
2. SEE SHEETS 599 & 643 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 12.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

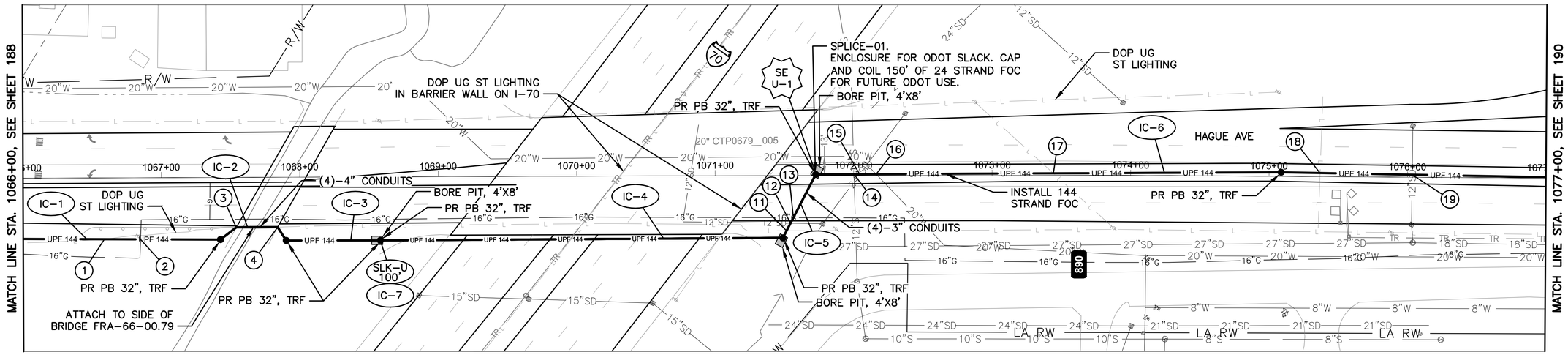
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
HAGUE AVE BETWEEN STA. 1054+00 AND 1066+00, INT SIG4120

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c – CONSTRUCTION AS-BUILT

188
911

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HAGUE AVE BETWEEN STATION 1066+00 AND 1077+00

NOTES:

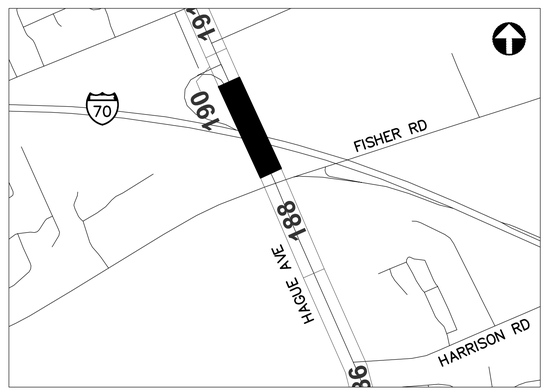
1. SEE SHEETS 192 & 193 FOR QUANTITIES.
2. SEE SHEETS 599 & 642 FOR COMMUNICATION DETAILS.
3. UNDERPASS LIGHTING IS PRESENT BENEATH BRIDGE. PROTECT FROM DAMAGE.
4. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 12.

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CITY OF COLUMBUS UTILITY LEGEND

- ☒ SEWER
- ☒ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

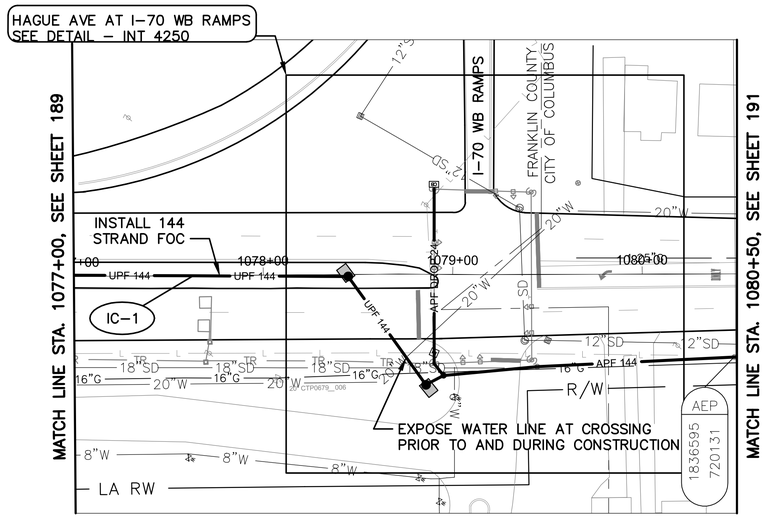
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PID NUMBER: 14522

INTERCONNECT PLAN
HAGUE AVE BETWEEN STA. 1066+00 AND 1077+00

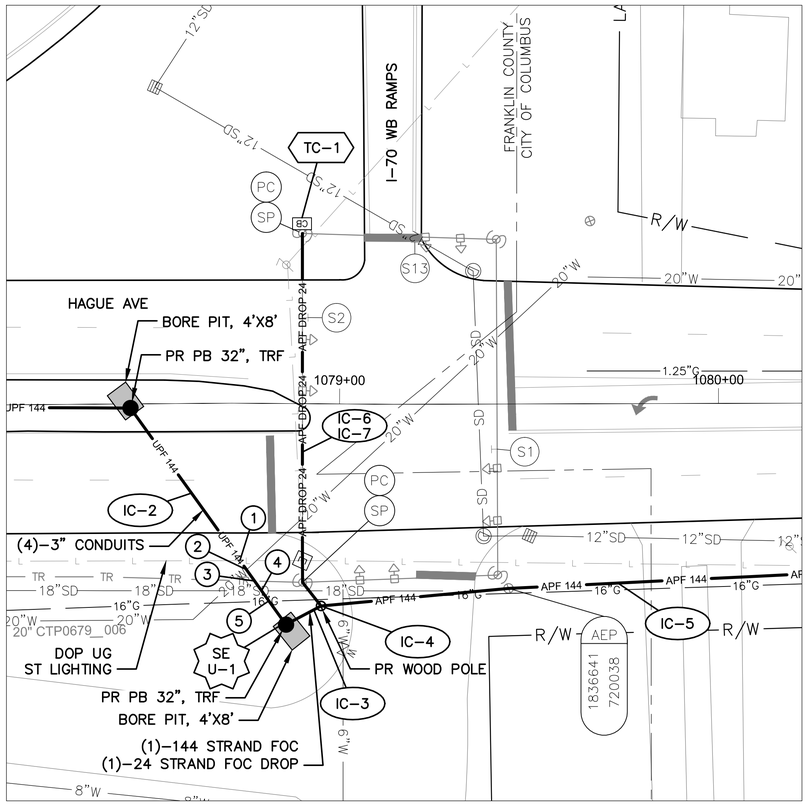
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

189
911

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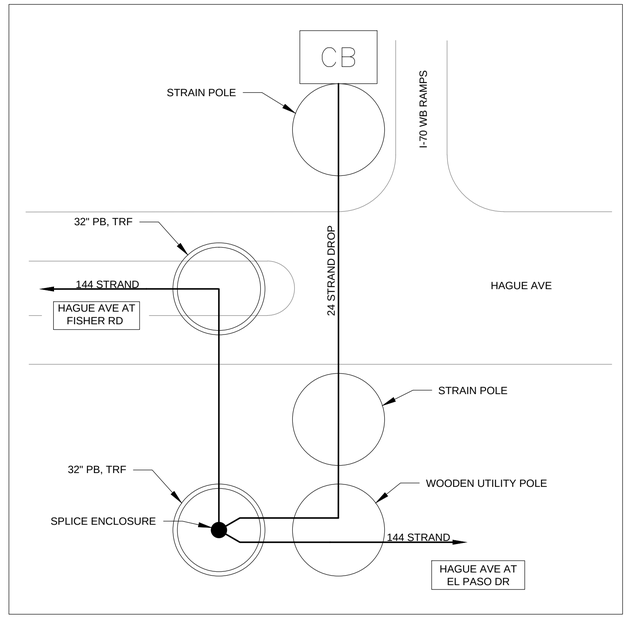


HAGUE AVE BETWEEN STATION 1077+00 AND 1080+50



DETAIL - INT 4250

0 20 40
HORIZONTAL
SCALE IN FEET



CABLE SCHEMATIC
NOT TO SCALE

NOTES:

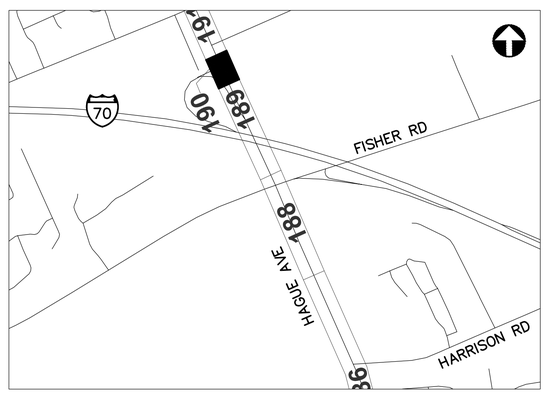
1. SEE SHEETS 192 & 193 FOR QUANTITIES.
2. SEE SHEETS 599 & 641 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 12.

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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☒	WATER
☐	POWER
☒	LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

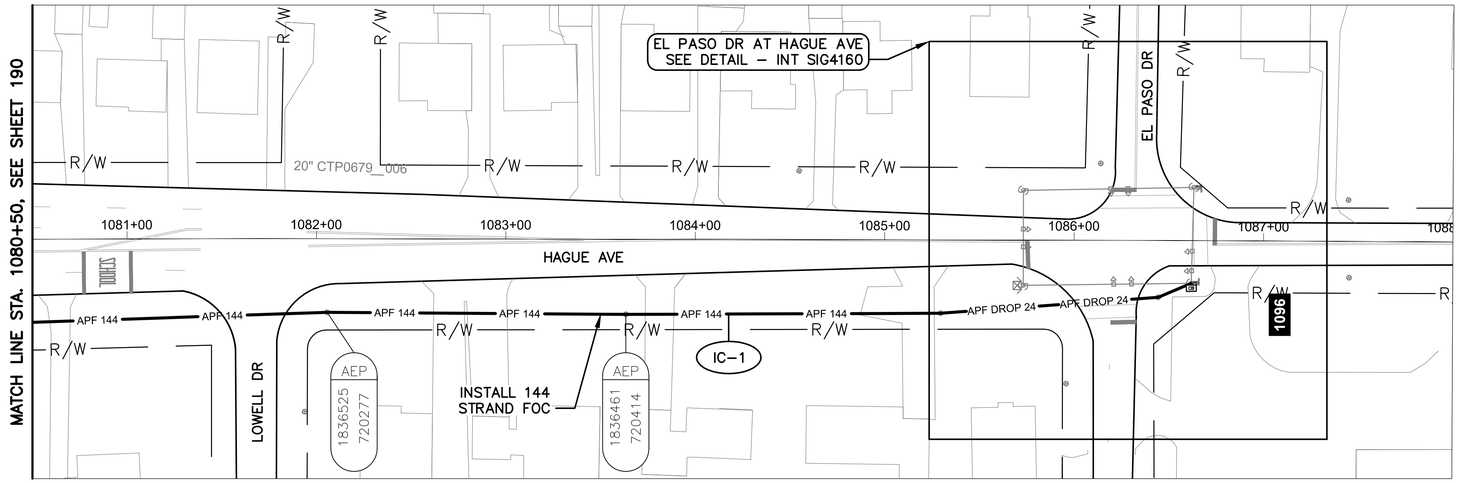
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
HAGUE AVE BETWEEN STA. 1077+00 AND 1080+50, INT 4250

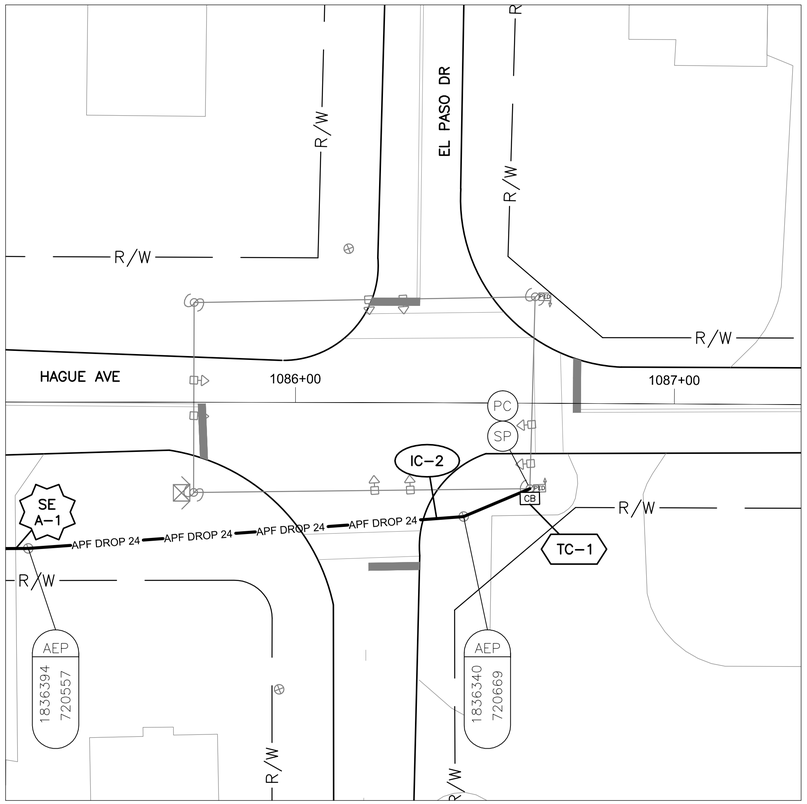
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

190
911

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HAGUE AVE BETWEEN STATION 1080+50 AND 1088+00



DETAIL - INT SIG4160

0 20 40

HORIZONTAL
SCALE IN FEET

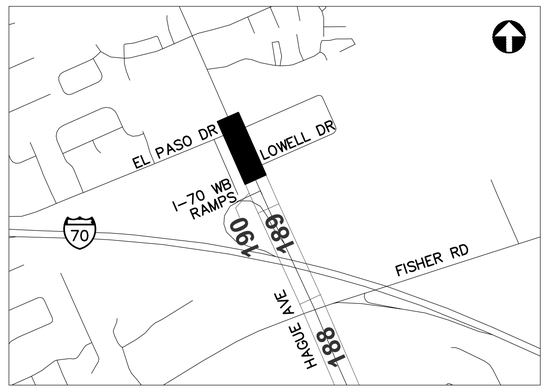
NOTES:

1. SEE SHEETS 192 & 193 FOR QUANTITIES.
2. SEE SHEETS 599 & 640 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW FLEXIBLE CONDUIT TO CABINET FOR PROPOSED DROP CABLE.

UNDERGROUND UTILITIES
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- [X] SEWER
- [X] WATER
- [ ] POWER
- [X] LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
HAGUE AVE BETWEEN STA. 1080+50 AND 1088+00, INT SIG4160

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

191
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	202 EXISTING CONDUIT CLEANED, AS PER PLAN FT	625 CONDUIT, 2", AS PER PLAN FT	625 CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN FT	625 CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN FT	625 CONDUIT, MISC.: 4" CONDUIT, FIBER-GLASS REINFORCED, ATTACHED TO STRUCTURE FT	625 PULL BOX, 32", AS PER PLAN EACH	625 TRENCH, 36" DEEP, AS PER PLAN FT	625 TRENCH IN PAVED AREA, AS PER PLAN FT	632 CONDUIT RISER, 3", 725.04, AS PER PLAN EACH	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND FT	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 144 FIBER EACH	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER EACH	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE EACH	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES FT	632 WOOD POLE, CLASS 5, 35 FT EACH	633 CABINET, POLE MOUNTED, TYPE TS-2, AS PER PLAN EACH	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE EACH	633 CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE EACH	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH EACH
HAGUE AVE. BETWEEN STA. 1054+00 AND 1066+00, INT SIG4120																								
188	IC-1	HAGUE AVE	1054+00, 19' LT	1065+57, 39' LT										1172					1172					
188	IC-5	HAGUE AVE	1058+63, 22' LT											150										
188	TC-1	HAGUE AVE	1065+21, 63' RT																			2	1	1
188	IC-6	HAGUE AVE	1065+21, 63' RT	1065+52, 41' RT	40													1						
188	IC-3	HAGUE AVE	1065+52, 41' RT	1065+57, 39' LT	91									91										
188	SE U-1	HAGUE AVE	1065+52, 41' RT											150		1								
188	IC-4	HAGUE AVE	1065+52, 41' RT	1066+00, 44' RT			48				48			48										
188	IC-2	HAGUE AVE	1065+57, 39' LT										1	35										
HAGUE AVE. BETWEEN STA. 1066+00 AND 1077+00, INT SPLICE-01																								
189	IC-1	HAGUE AVE	1066+00, 44' RT	1067+42, 45' RT			142			1	142			142										
189	IC-2	HAGUE AVE	1067+42, 45' RT	1067+89, 46' RT					224	1				56										
189	IC-3	HAGUE AVE	1067+90, 46' RT	1068+57, 46' RT			68				68			68										
189	IC-7	HAGUE AVE	1068+57, 46' RT							1				100										
189	IC-4	HAGUE AVE	1068+57, 46' RT	1071+41, 43' RT			296					296		296										
189	IC-5	HAGUE AVE	1071+41, 43' LT	1071+72, 1' LT				216		1				54										
189	SE U-1	HAGUE AVE	1071+72, 1' LT							1				100	150	1								
189	IC-6	HAGUE AVE	1071+72, 1' LT	1077+00, 1' LT			527			1	527			527										
HAGUE AVE. BETWEEN STA. 1077+00 AND 1080+50, INT 4250																								
190	IC-1	HAGUE AVE	1077+00, 1' LT	1078+44, 1' RT			145			1	145			145										
190	IC-2	HAGUE AVE	1078+44, 1' RT	1078+88, 54' RT				272						68										
190	SE U-1	HAGUE AVE	1078+88, 54' RT	1078+89, 45' LT						1				150		1								
190	IC-6	HAGUE AVE	1078+88, 54' RT	1078+89, 45' LT															1					
190	IC-3	HAGUE AVE	1078+88, 54' RT	1078+95, 53' RT		14					7			7										
190	TC-1	HAGUE AVE	1078+89, 45' LT																			2		1
190	IC-7	HAGUE AVE	1078+89, 45' RT	1078+95, 53' RT																	100			
190	IC-4	HAGUE AVE	1078+90, 47' RT										2	35										
190	IC-5	HAGUE AVE	1078+95, 53' RT	1080+50, 44' RT										156						156				
HAGUE AVE. BETWEEN STA. 1080+50 AND 1088+00, INT SIG4160																								
191	IC-1	HAGUE AVE	1080+50, 44' RT	1085+29, 39' RT										488						488				
191	SE A-1	HAGUE AVE	1085+29, 39' RT											75			1							
191	IC-2	HAGUE AVE	1085+29, 39' RT	1088+61, 23' RT															1	136				
191	TC-1	HAGUE AVE	1088+61, 23' RT																			1	2	1
SHEET TOTAL					131	14	1226	488	224	8	937	296	3	4113	150	3	1	3	2052	1	1	6	1	3

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

CIP: 540007–100005
PID NUMBER: 14522

1 OF 2 – HAGUE AVE. BTW STA. 1054+00 AND 1088+00
INTS SIG4120, 4250, SIG4160

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

192
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	633 CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN
					EACH	EACH
HAGUE AVE. BETWEEN STA. 1054+00 AND 1066+00, INT SIG4120						
188	IC-1	HAGUE AVE	1054+00, 19' LT	1065+57, 39' LT		
188	IC-5	HAGUE AVE	1058+63, 22' LT			
188	TC-1	HAGUE AVE	1065+21, 63' RT			
188	IC-6	HAGUE AVE	1065+21, 63' RT	1065+52, 41' RT		
188	IC-3	HAGUE AVE	1065+52, 41' RT	1065+57, 39' LT		
188	SE U-1	HAGUE AVE	1065+52, 41' RT			
188	IC-4	HAGUE AVE	1065+52, 41' RT	1066+00, 44' RT		
188	IC-2	HAGUE AVE	1065+57, 39' LT			
HAGUE AVE. BETWEEN STA. 1066+00 AND 1077+00, INT SPLICE-01						
189	IC-1	HAGUE AVE	1066+00, 44' RT	1067+42, 45' RT		
189	IC-2	HAGUE AVE	1067+42, 45' RT	1067+89, 46' RT		
189	IC-3	HAGUE AVE	1067+90, 46' RT	1068+57, 46' RT		
189	IC-7	HAGUE AVE	1068+57, 46' RT			
189	IC-4	HAGUE AVE	1068+57, 46' RT	1071+41, 43' RT		
189	IC-5	HAGUE AVE	1071+41, 43' LT	1071+72, 1' LT		
189	SE U-1	HAGUE AVE	1071+72, 1' LT			
189	IC-6	HAGUE AVE	1071+72, 1' LT	1077+00, 1' LT		
HAGUE AVE. BETWEEN STA. 1077+00 AND 1080+50, INT 4250						
190	IC-1	HAGUE AVE	1077+00, 1' LT	1078+44, 1' RT		
190	IC-2	HAGUE AVE	1078+44, 1' RT	1078+88, 54' RT		
190	SE U-1	HAGUE AVE	1078+88, 54' RT			
190	IC-6	HAGUE AVE	1078+88, 54' RT	1078+89, 45' LT		
190	IC-3	HAGUE AVE	1078+88, 54' RT	1078+95, 53' RT		
190	TC-1	HAGUE AVE	1078+89, 45' LT		1	
190	IC-7	HAGUE AVE	1078+89, 45' RT	1078+95, 53' RT		
190	IC-4	HAGUE AVE	1078+90, 47' RT			
190	IC-5	HAGUE AVE	1078+95, 53' RT	1080+50, 44' RT		
HAGUE AVE. BETWEEN STA. 1080+50 AND 1088+00, INT SIG4160						
191	IC-1	HAGUE AVE	1080+50, 44' RT	1085+29, 39' RT		
191	SE A-1	HAGUE AVE	1085+29, 39' RT			
191	IC-8	HAGUE AVE	1085+29, 39' RT	1086+61, 23' RT		
191	TC-1	HAGUE AVE	1086+61, 23' RT		1	
SHEET TOTAL					1	1

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

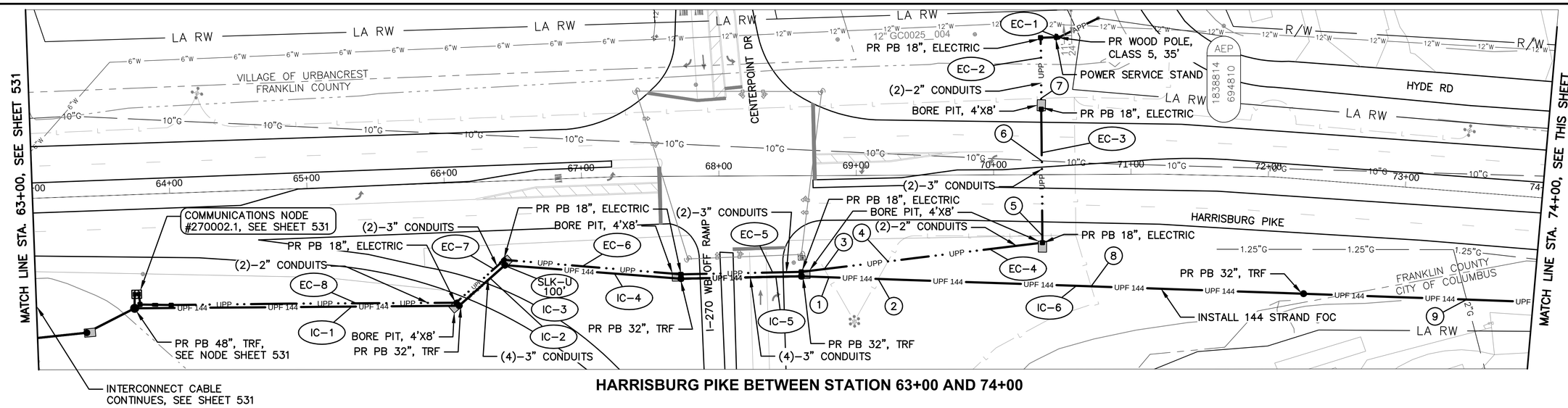
CIP: 540007–100005
PID NUMBER: 14522

2 OF 2 – HAGUE AVE. BTW STA. 1054+00 AND 1088+00
INTS SIG4120, 4250, SIG4160

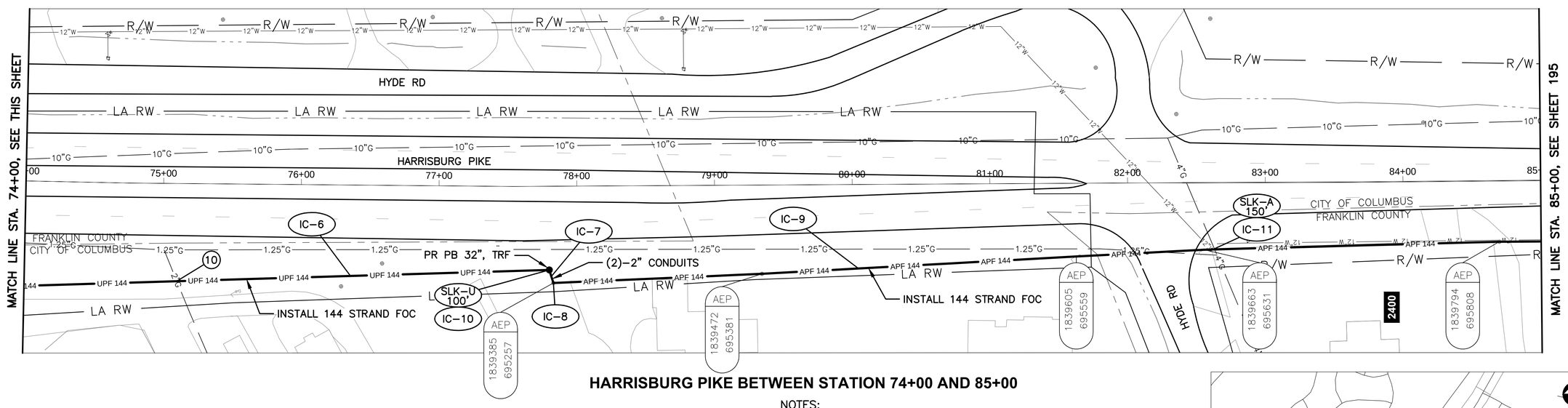
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

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911

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HARRISBURG PIKE BETWEEN STATION 63+00 AND 74+00



HARRISBURG PIKE BETWEEN STATION 74+00 AND 85+00

NOTES:

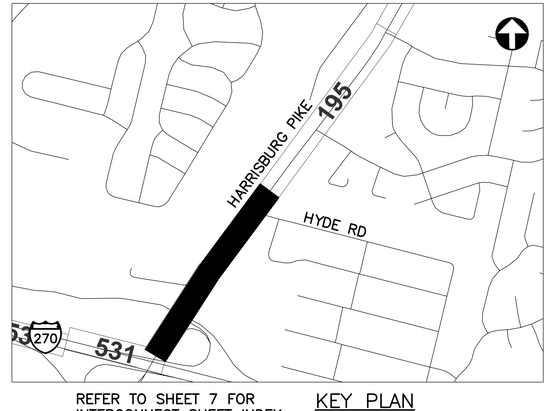
1. SEE SHEET 200 FOR INTERCONNECT AND POWER QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.
3. SEE SHEETS 293 & 531 FOR POWER SERVICE PLAN & DETAILS.
4. SEE SHEET 532 FOR NODE QUANTITIES.
5. INSTALL FIBER CONDUIT AND POWER CONDUIT IN SAME TRENCH BETWEEN STA. 68+60, 70' RT AND STA. 63+74, 80' RT.
6. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 12.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☒ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0
40
80

CIP: 540007–100005
PID NUMBER: 14522

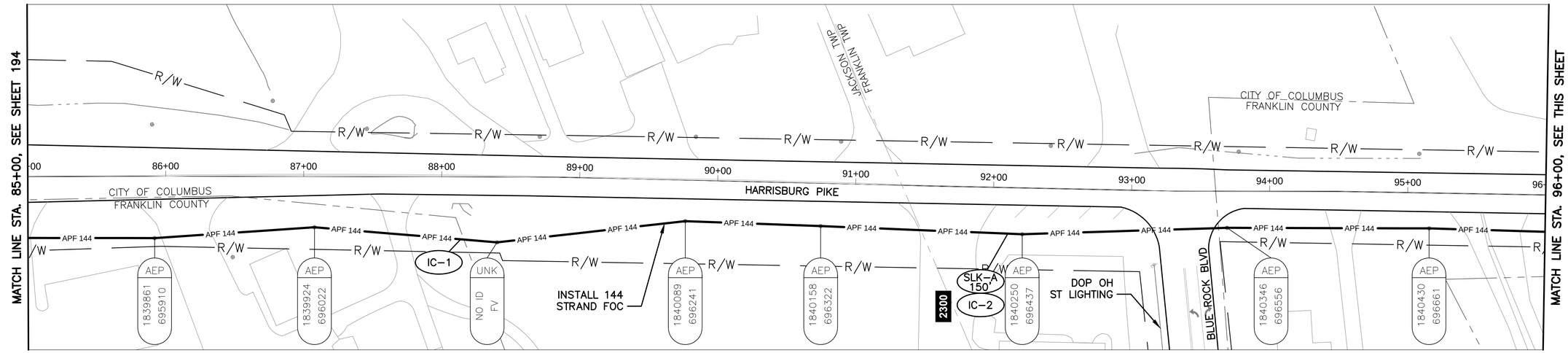
INTERCONNECT PLAN
HARRISBURG PIKE BETWEEN STA. 63+00 AND 85+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

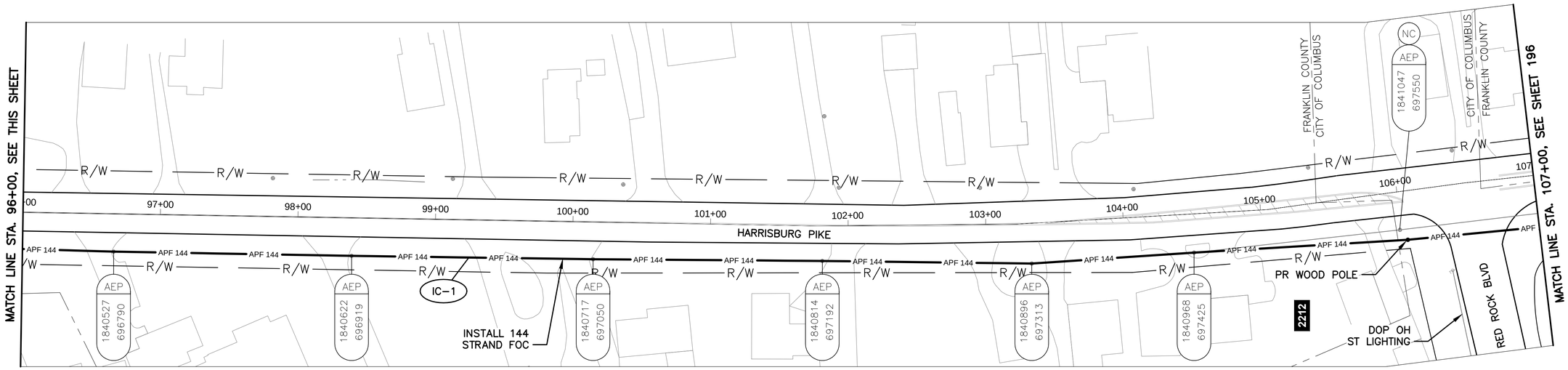
2953-E

194
911

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HARRISBURG PIKE BETWEEN STATION 85+00 AND 96+00



HARRISBURG PIKE BETWEEN STATION 96+00 AND 107+00

NOTES:

1. SEE SHEET 200 FOR QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

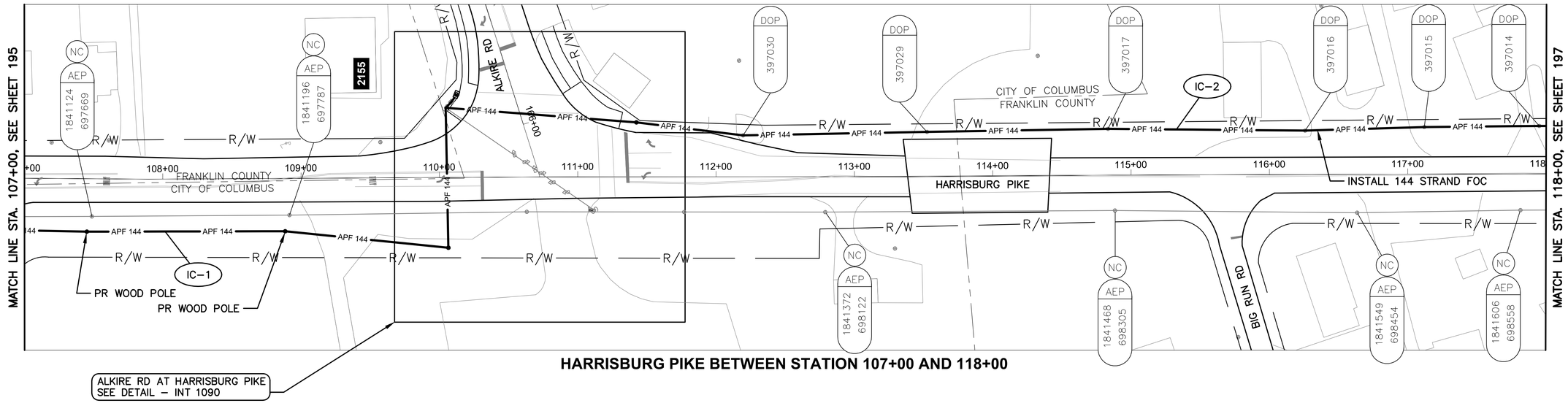
INTERCONNECT PLAN
HARRISBURG PIKE BETWEEN STA. 85+00 AND 107+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

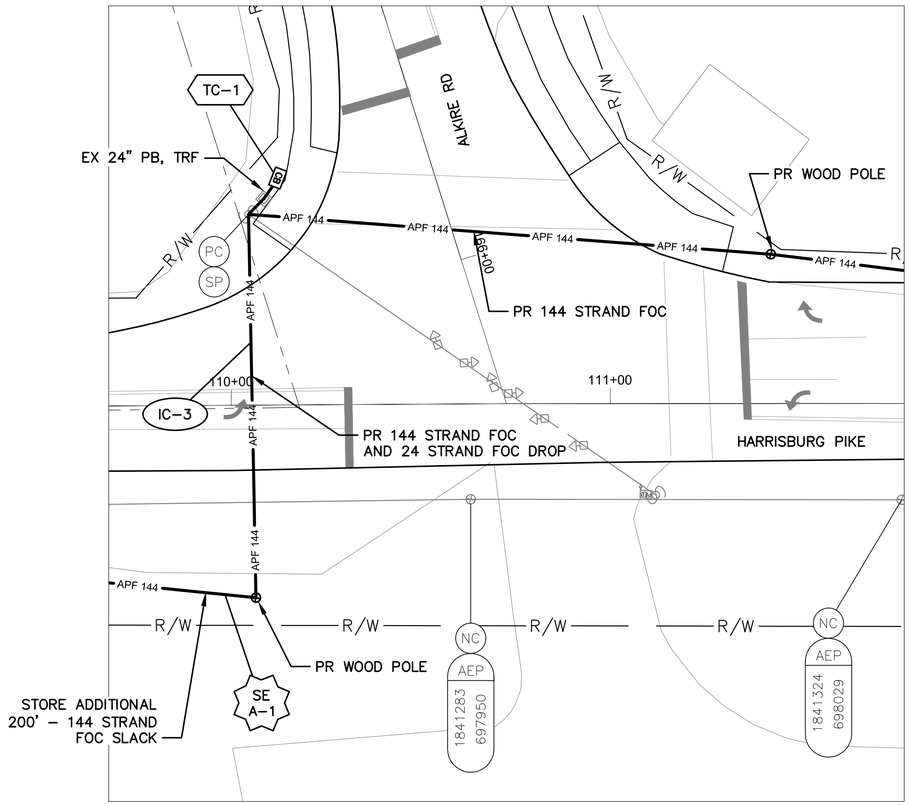
195
911

2953-E

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HARRISBURG PIKE BETWEEN STATION 107+00 AND 118+00



DETAIL - INT 1090

0 20 40
HORIZONTAL
SCALE IN FEET

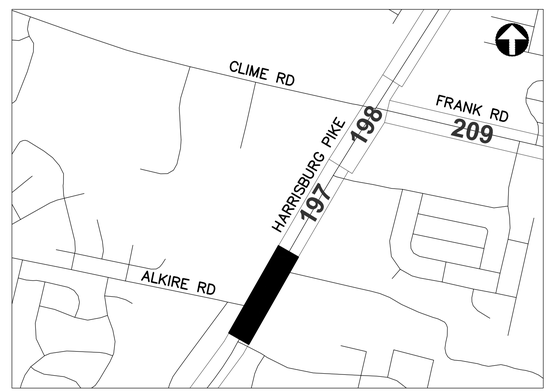
NOTES:

1. SEE SHEET 200 FOR QUANTITIES.
2. SEE SHEETS 604 & 677 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

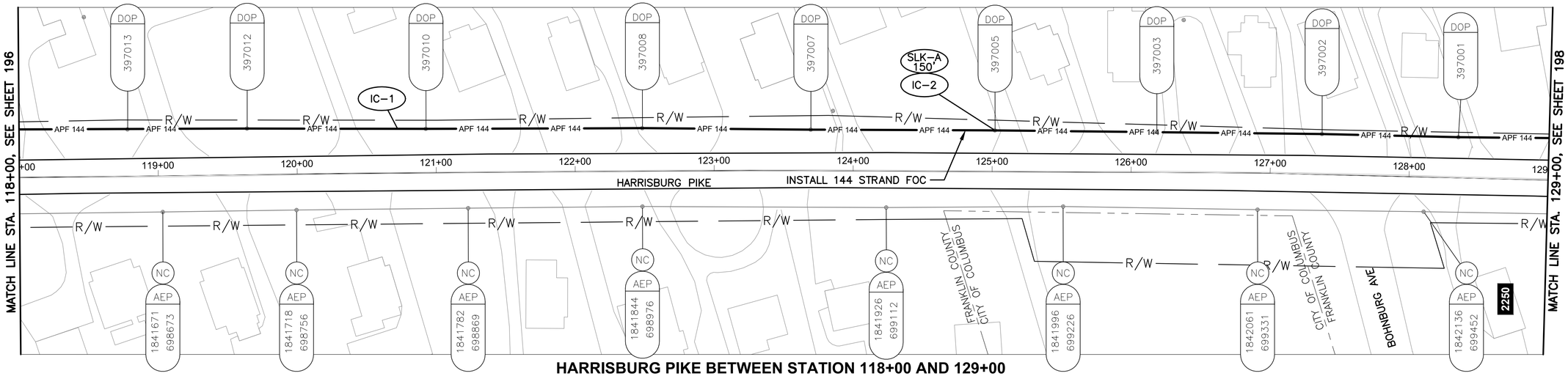
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PID NUMBER: 14522

INTERCONNECT PLAN
HARRISBURG PIKE BETWEEN STA. 107+00 AND 118+00, INT 1090

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

196
911

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HARRISBURG PIKE BETWEEN STATION 118+00 AND 129+00

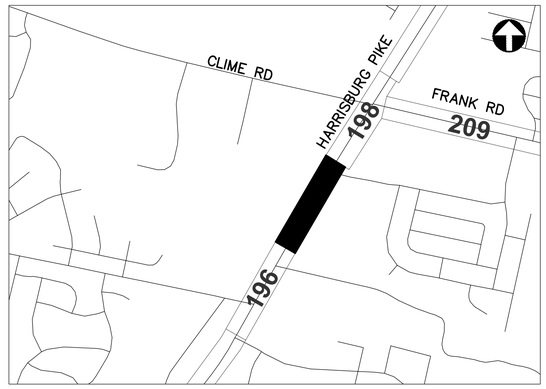
NOTES:

1. SEE SHEET 200 FOR QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

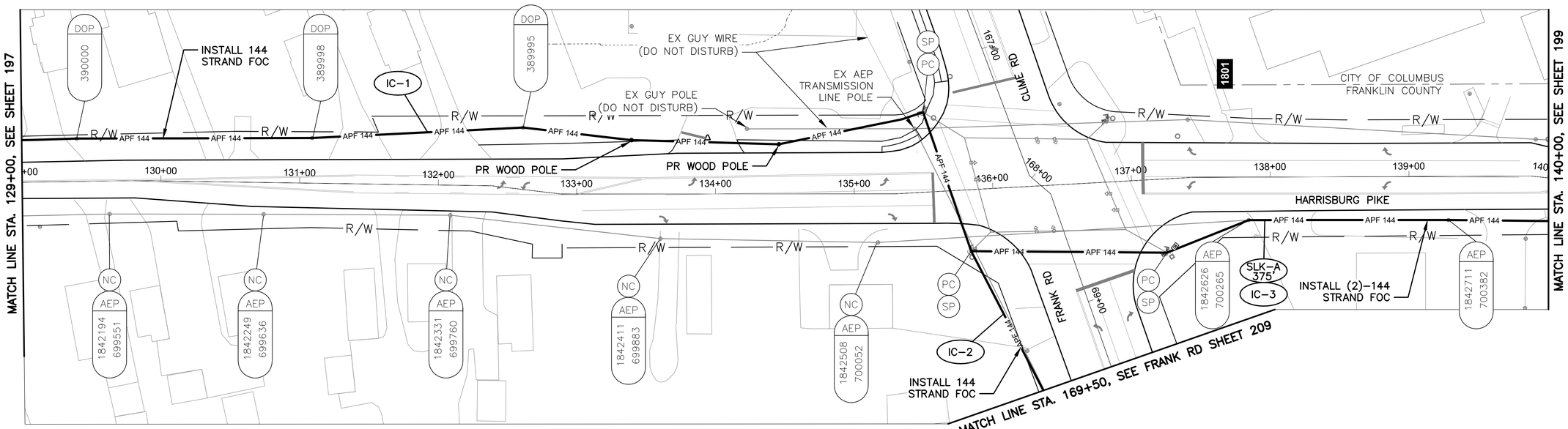
INTERCONNECT PLAN
HARRISBURG PIKE BETWEEN STA. 118+00 AND 129+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

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911

2953-E

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HARRISBURG PIKE BETWEEN STATION 129+00 AND 140+00

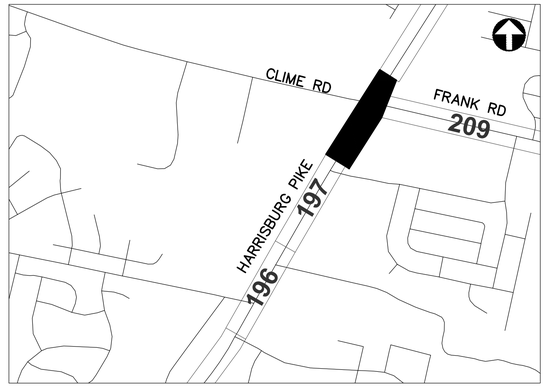
NOTES:

1. SEE SHEET 200 FOR QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.
3. AT SLK-A (APPROX STA. 137+90) PROVIDE 75' OF SLACK CABLE FOR ALL DIRECTIONS, WITH AN ADDITIONAL 150' OF SLACK CABLE FOR CABLE FROM SOUTH DIRECTION.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☐ LIGHTING



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

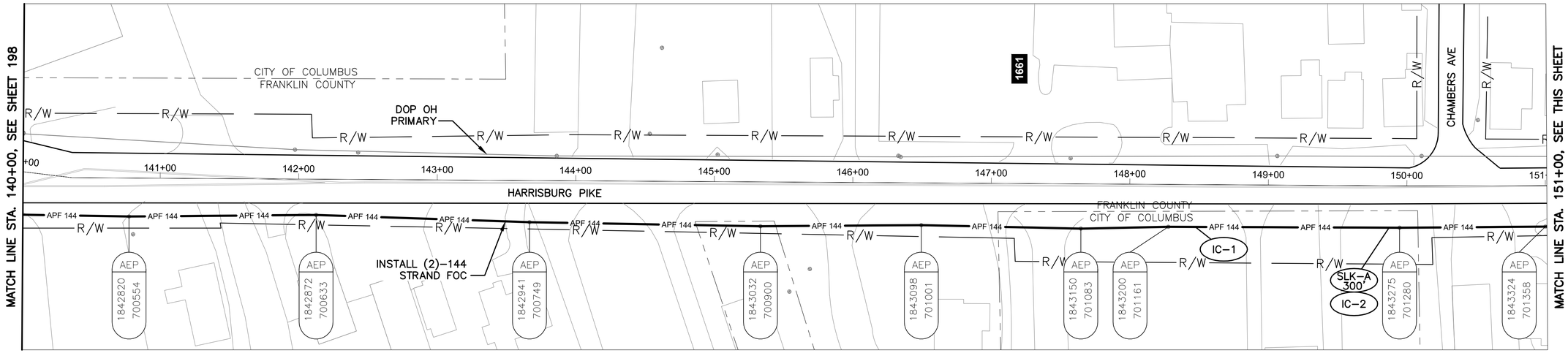
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PID NUMBER: 14522

INTERCONNECT PLAN
HARRISBURG PIKE BETWEEN STA. 129+00 AND 140+00

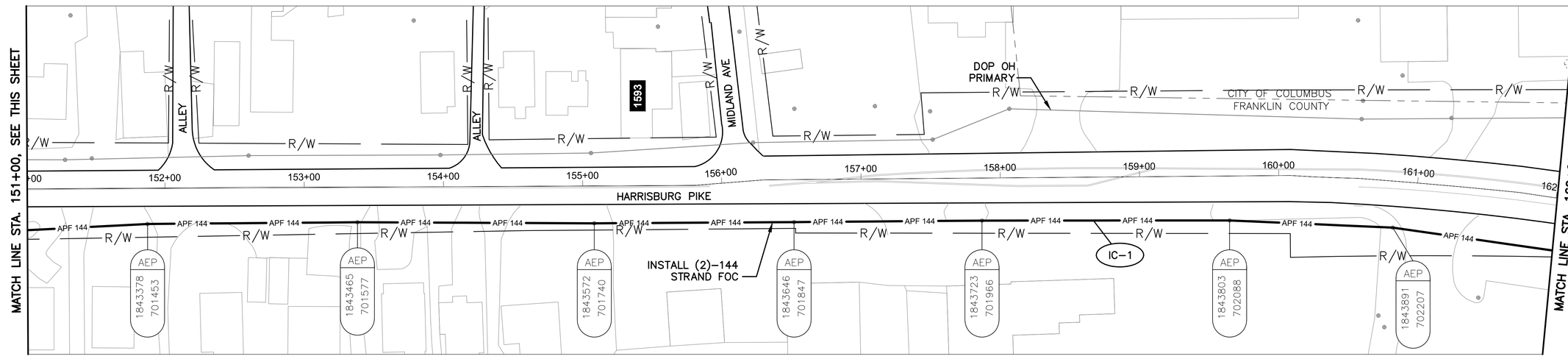
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

198
911

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HARRISBURG PIKE BETWEEN STATION 140+00 AND 151+00



HARRISBURG PIKE BETWEEN STATION 151+00 AND 162+00

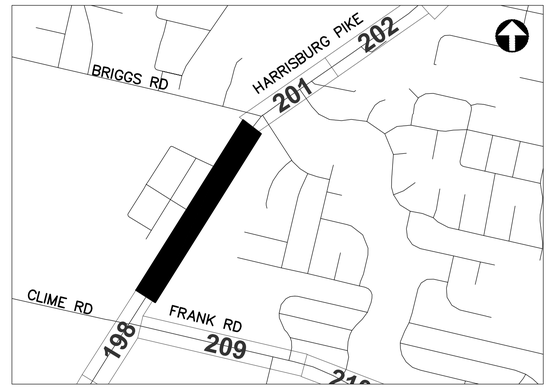
NOTES:

1. SEE SHEET 200 FOR QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
HARRISBURG PIKE BETWEEN STA. 140+00 AND 162+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

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911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	625 CONDUIT, 2", AS PER PLAN (FT)	625 CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN (FT)	625 CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN (FT)	625 NO. 1/0 AWG 5000 VOLT DISTRIBUTION CABLE (FT)	625 NO. 4 AWG 600 VOLT DISTRIBUTION CABLE (FT)	625 POWER SERVICE, TYPE A, AS PER PLAN (EACH)	625 PULL BOX, 18", AS PER PLAN (EACH)	625 PULL BOX, 32", AS PER PLAN (EACH)	625 TRENCH, 36" DEEP, AS PER PLAN (FT)	632 CONDUIT RISER, 3", 725.04, AS PER PLAN (EACH)	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND (FT)	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER (EACH)	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE (EACH)	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES (FT)	632 WOOD POLE, CLASS 5, 35 FT (EACH)	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE (EACH)	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH (EACH)	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN (EACH)		
HARRISBURG PIKE BETWEEN STA. 63+00 AND 85+00																									
194	IC-1	HARRISBURG PIKE	63+71, 65' RT	66+07, 90' RT		238						1	238		238										
194	EC-8	HARRISBURG PIKE	63+75, 73' RT	66+05, 87' RT	476			714	238		2														
194	EC-7	HARRISBURG PIKE	66+05, 87' RT	66+42, 57' RT				135	45		2														
194	IC-2	HARRISBURG PIKE	66+07, 90' RT	66+41, 61' RT			180								45										
194	IC-3	HARRISBURG PIKE	66+41, 61' RT									1			100										
194	IC-4	HARRISBURG PIKE	66+41, 61' RT	67+71, 75' RT		128						1	128		128										
194	EC-6	HARRISBURG PIKE	66+42, 57' RT	67+72, 71' RT	256			384	128																
194	IC-5	HARRISBURG PIKE	67+71, 75' RT	68+59, 73' RT			352								88										
194	EC-5	HARRISBURG PIKE	67+72, 71' RT	68+60, 70' RT				264	88		2														
194	IC-6	HARRISBURG PIKE	68+59, 73' RT	77+80, 61' RT		915						3	915		915										
194	EC-4	HARRISBURG PIKE	68+60, 70' RT	70+35, 50' RT	354			531	177				177												
194	EC-2	HARRISBURG PIKE	70+35, 48' LT	70+48, 100' LT	130			195	65		1		65												
194	EC-3	HARRISBURG PIKE	70+35, 48' LT	70+35, 50' RT			194	291	97		2														
194	EC-1	HARRISBURG PIKE	70+48, 100' LT					105	35	1				2											
194	IC-7	HARRISBURG PIKE	77+80, 61' RT	77+82, 70' RT	20								10		10										
194	IC-10	HARRISBURG PIKE	77+80, 60' RT												100										
194	IC-8	HARRISBURG PIKE	77+82, 70' RT											2	35										
194	IC-9	HARRISBURG PIKE	77+82, 70' RT	85+00, 44' RT											729			729							
194	IC-11	HARRISBURG PIKE	82+61, 49' RT												150										
HARRISBURG PIKE BETWEEN STA. 85+00 AND 107+00																									
195	IC-1	HARRISBURG PIKE	85+00, 44' RT	107+00, 28' RT											2238			2238							
195	IC-2	HARRISBURG PIKE	92+10, 33' RT												150										
HARRISBURG PIKE BETWEEN STA. 107+00 AND 118+00, INT 1090																									
196	IC-1	HARRISBURG PIKE	107+00, 28' RT	111+11, 24' RT											418			418							
196	TC-1	HARRISBURG PIKE	110+06, 40' LT																2	1	1				
196	IC-3	HARRISBURG PIKE	110+06, 40' LT	111+11, 24' RT											123		1	123							
196	SE A-1	HARRISBURG PIKE	111+11, 24' RT												150	1									
196	IC-2	HARRISBURG PIKE	111+11, 24' RT	118+00, 26' RT											698			698							
HARRISBURG PIKE BETWEEN STA. 118+00 AND 129+00																									
197	IC-1	HARRISBURG PIKE	118+00, 26' RT	129+00, 24' RT											1115			1115							
197	IC-2	HARRISBURG PIKE	125+56, 25' RT												150										
HARRISBURG PIKE BETWEEN STA. 129+00 AND 140+00																									
198	IC-1	HARRISBURG PIKE	129+00, 24' RT	140+00 ,31' RT											1105			1105							
198	IC-2	HARRISBURG PIKE	135+64, 42' RT												375										
198	IC-3	HARRISBURG PIKE	135+81, 44' RT	136+28, 148' RT											230			115							
HARRISBURG PIKE BETWEEN STA. 140+00 AND 162+00																									
199	IC-1	HARRISBURG PIKE	140+00, 31' RT	162+00, 38' RT											4460			2230							
199	IC-2	HARRISBURG PIKE	143+73, 30' RT												150										
SHEET TOTAL					1236	1281	726	2619	873	1	9	6	1533	4	13777	1	1	8771	1	2	1	1	-	-	

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

2953-E

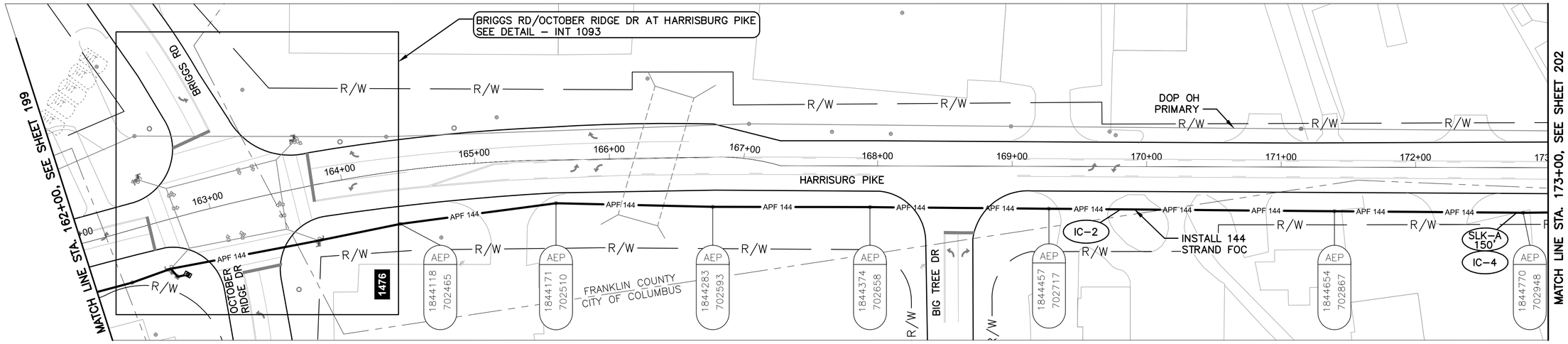
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PID NUMBER: 14522

HARRISBURG PIKE BTW STA. 63+00 AND 162+00
INT 1090

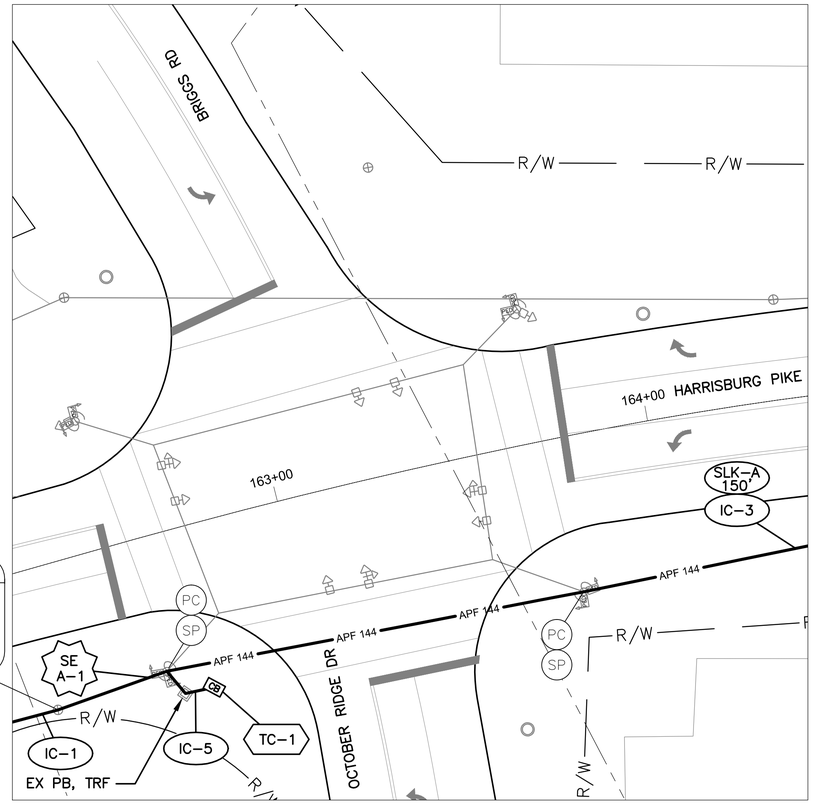
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

200
911

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HARRISBURG PIKE BETWEEN STATION 162+00 AND 173+00



DETAIL - INT 1093

0 20 40

HORIZONTAL
SCALE IN FEET

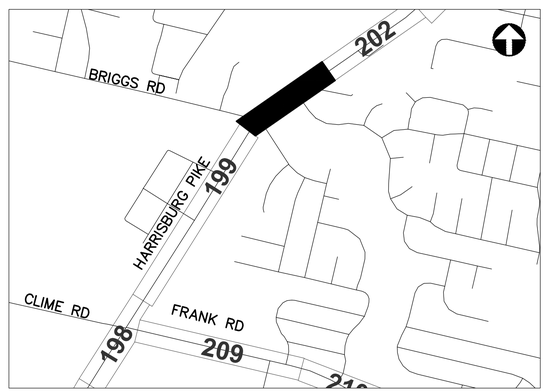
NOTES:

1. SEE SHEET 208 FOR QUANTITIES.
2. SEE SHEETS 604 & 680 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

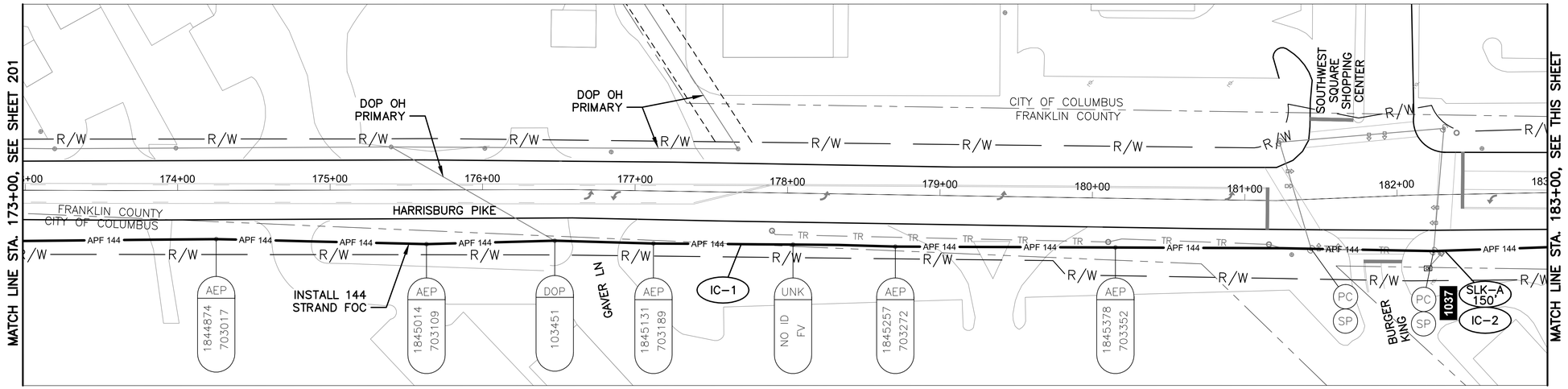
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PID NUMBER: 14522

INTERCONNECT PLAN
HARRISBURG PIKE BETWEEN STA. 162+00 AND 173+00, INT 1093

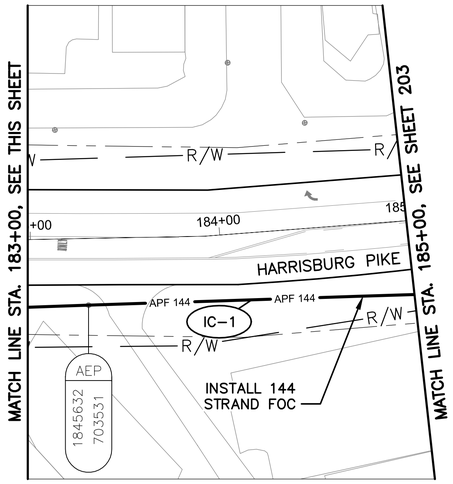
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c – CONSTRUCTION AS–BUILT

201
911

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HARRISBURG PIKE BETWEEN STATION 173+00 AND 183+00



HARRISBURG PIKE BETWEEN STATION 183+00 AND 185+00

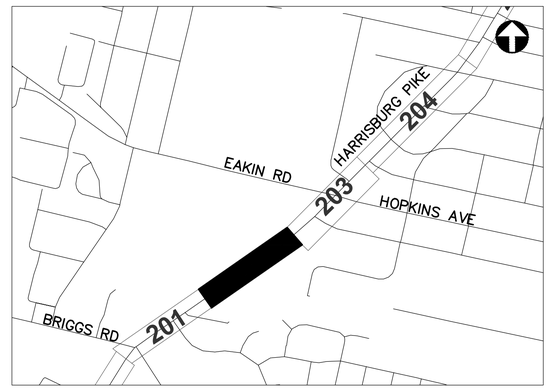
NOTES:

1. SEE SHEET 208 FOR QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

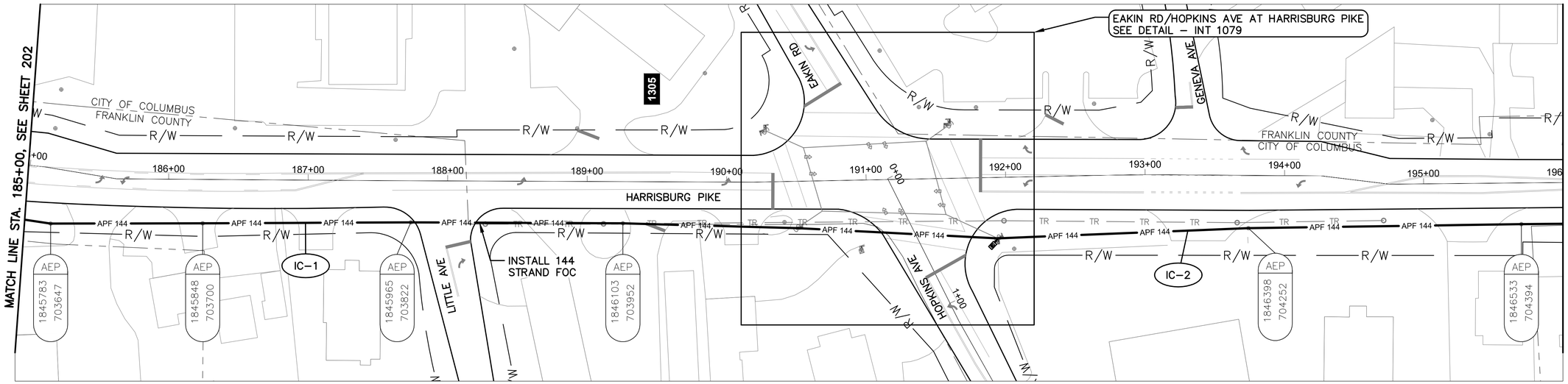
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INTERCONNECT PLAN
HARRISBURG PIKE BETWEEN STA. 173+00 AND 185+00

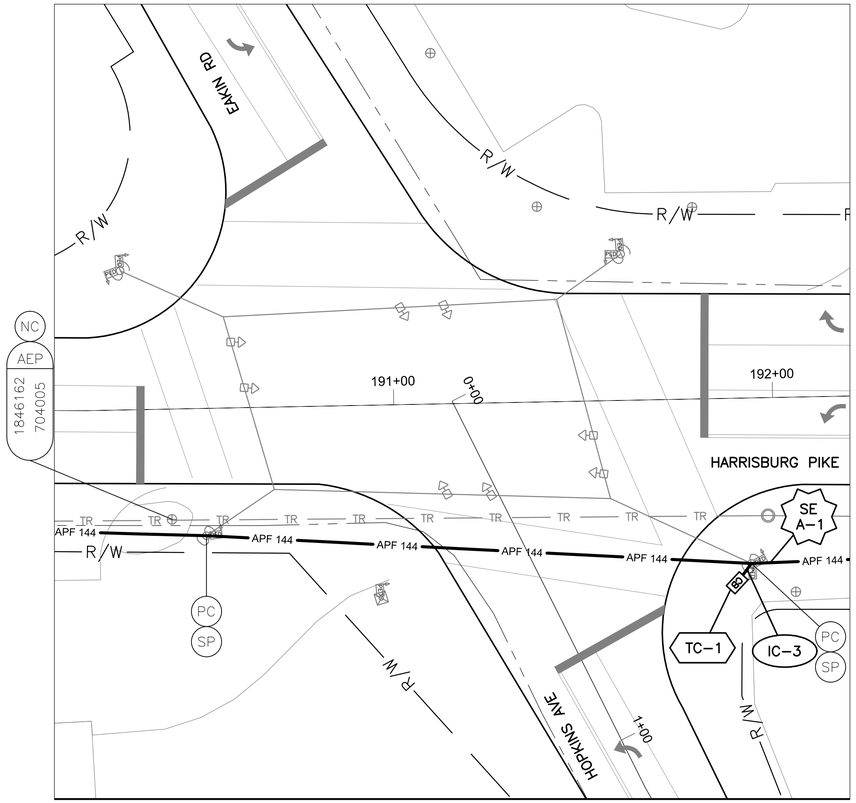
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

202
911

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HARRISBURG PIKE BETWEEN STATION 185+00 AND 196+00



DETAIL - INT 1079

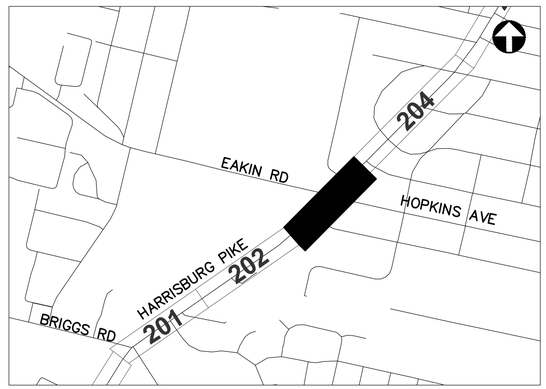
0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 208 FOR QUANTITIES.
2. SEE SHEETS 604 & 681 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

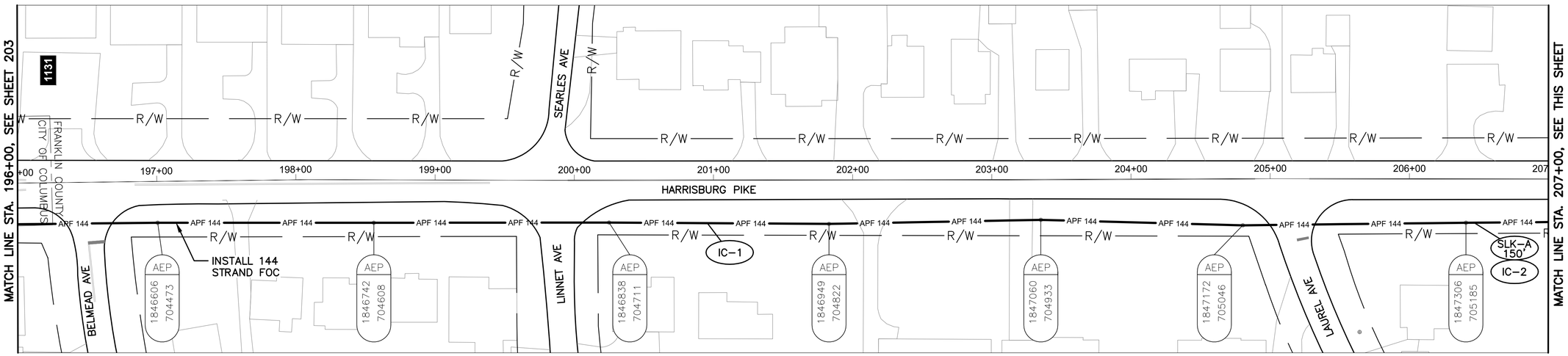
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PID NUMBER: 14522

INTERCONNECT PLAN
HARRISBURG PIKE BETWEEN STA. 185+00 AND 196+00, INT 1079

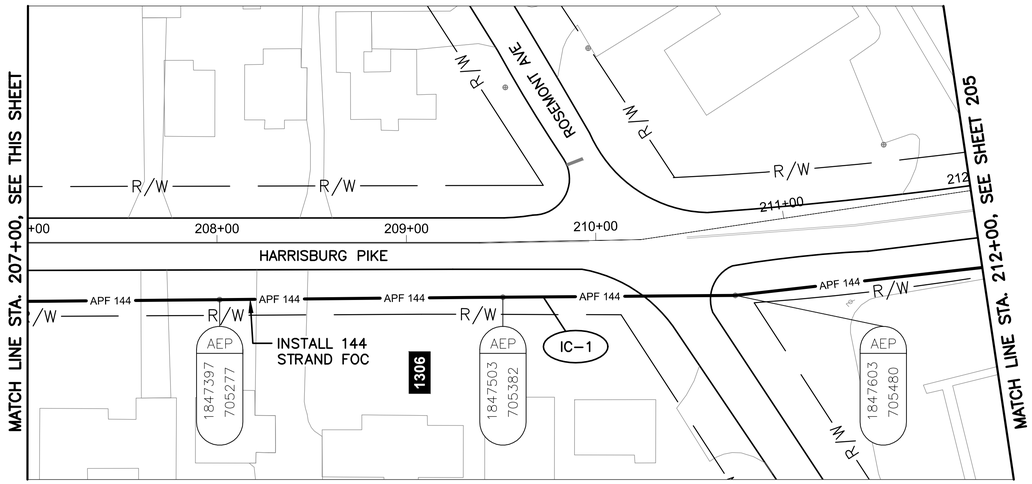
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

203
911

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HARRISBURG PIKE BETWEEN STATION 196+00 AND 207+00



HARRISBURG PIKE BETWEEN STATION 207+00 AND 212+00

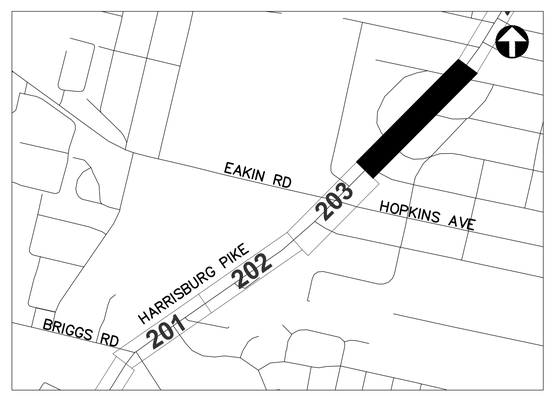
NOTES:

1. SEE SHEET 208 FOR QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

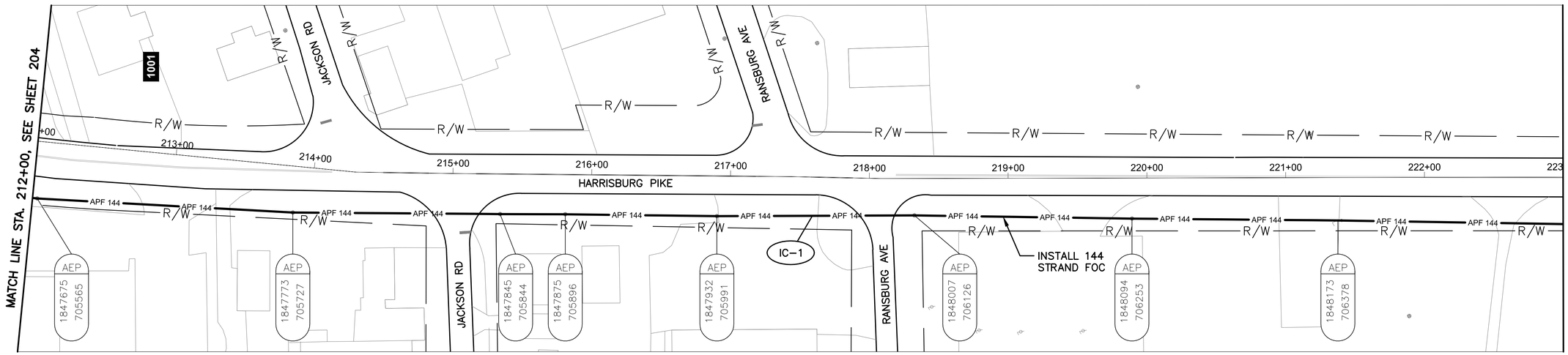
INTERCONNECT PLAN
HARRISBURG PIKE BETWEEN STA. 196+00 AND 212+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

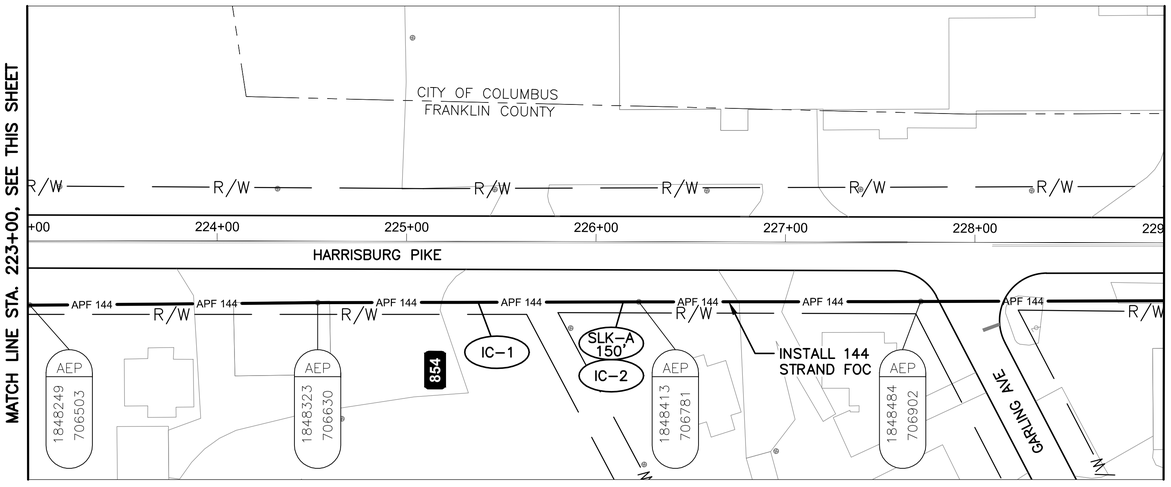
204
911

2953-E

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HARRISBURG PIKE BETWEEN STATION 212+00 AND 223+00



HARRISBURG PIKE BETWEEN STATION 223+00 AND 229+00

NOTES:

1. SEE SHEET 208 FOR QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

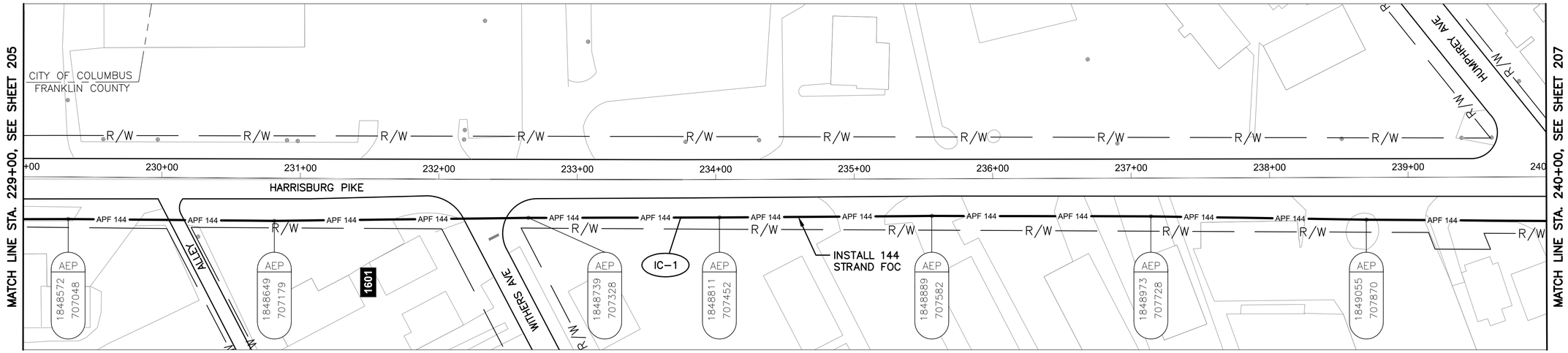
INTERCONNECT PLAN
HARRISBURG PIKE BETWEEN STA. 212+00 AND 229+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

205
911

2953-E

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HARRISBURG PIKE BETWEEN STATION 229+00 AND 240+00

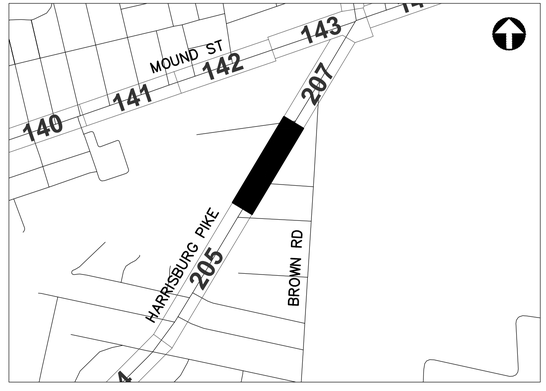
NOTES:

1. SEE SHEET 208 FOR QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

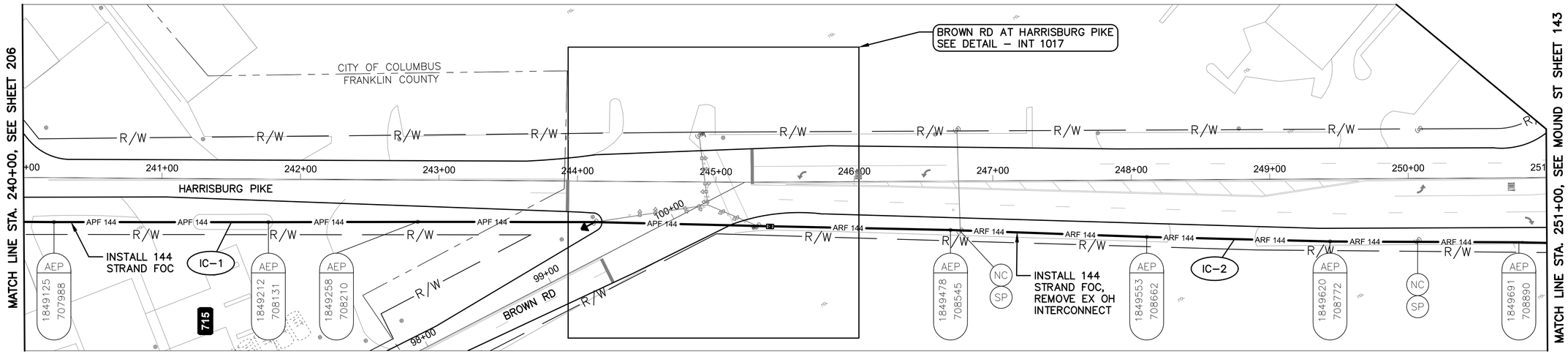
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PID NUMBER: 14522

INTERCONNECT PLAN
HARRISBURG PIKE BETWEEN STA. 229+00 AND 240+00

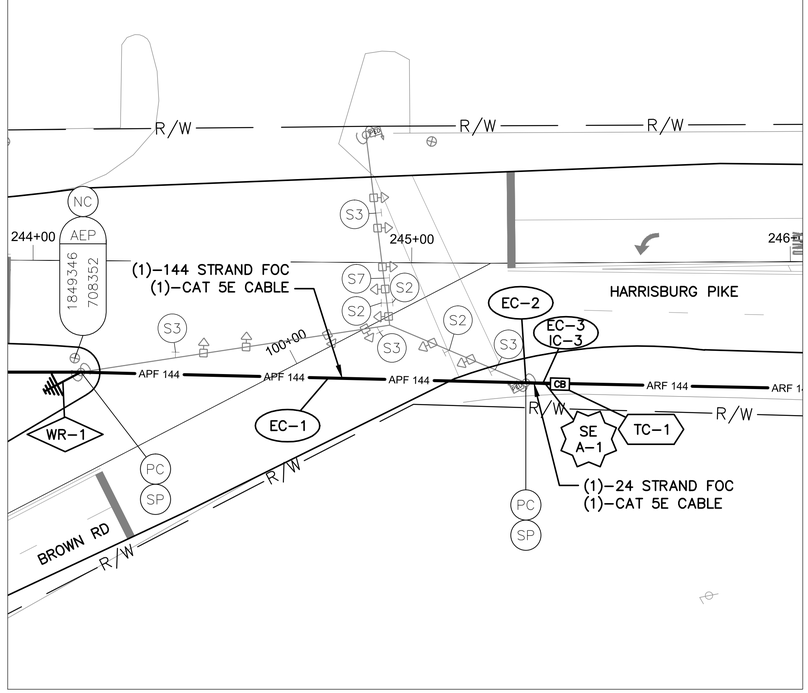
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

206
911

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HARRISBURG PIKE BETWEEN STATION 240+00 AND 251+00



DETAIL - INT 1017

0 20 40
HORIZONTAL
SCALE IN FEET

INT #1017 WITH PROPOSED SIGNAL CONTROLLER

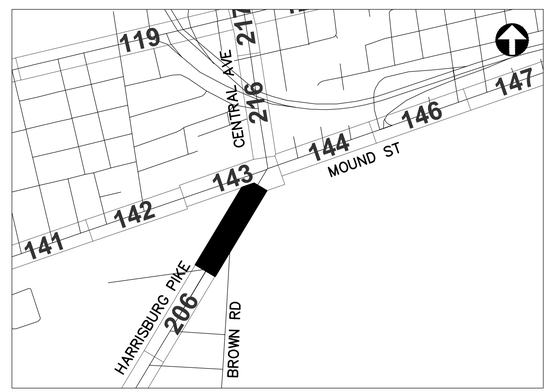
PROPOSED WIRELESS
SEE SHEET 214
INT. SIG4035 – BROWN ROAD AT HOPKINS AVENUE

NOTES:

1. SEE SHEET 208 FOR QUANTITIES.
2. SEE SHEETS 604 & 683 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

INTERCONNECT PLAN
HARRISBURG PIKE BETWEEN STA. 240+00 AND 251+00, INT 1017

207
911

2953-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	202 EXISTING CONDUIT CLEANED, AS PER PLAN	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 FIBER	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	632 SIGNALIZATION, MISC.: CAT 5E CABLE, OUTDOOR RATED	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	633 CONTROLLER ITEM, MISC.: SPREAD SPECTRUM RADIO	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN
					FT	FT	FT	FT	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH
HARRISBURG PIKE BETWEEN STA. 162+00 AND 173+00, INT 1093																	
201	IC-1	HARRISBURG PIKE	162+00, 38' RT	162+59, 36' RT		118						59					
201	SE A-1	HARRISBURG PIKE	162+59, 36' RT			225				1							
201	IC-5	HARRISBURG PIKE	162+59, 36' RT	162+71, 43' RT	15						2						
201	IC-2	HARRISBURG PIKE	162+59, 36' RT	173+00, 33' RT		1043						1043					
201	TC-1	HARRISBURG PIKE	162+71, 43' RT											4	1		1
201	IC-3	HARRISBURG PIKE	164+34, 39' RT			150											
201	IC-4	HARRISBURG PIKE	172+75, 34' RT			150											
HARRISBURG PIKE BETWEEN STA. 173+00 AND 185+00																	
202	IC-1	HARRISBURG PIKE	173+00, 33' RT	185+00, 39' RT		1205						1205					
202	IC-2	HARRISBURG PIKE	181+38, 32' RT			150											
HARRISBURG PIKE BETWEEN STA. 185+00 AND 196+00, INT 1079																	
203	IC-1	HARRISBURG PIKE	185+00, 39' RT	191+93, 44' RT		708						708					
203	TC-1	HARRISBURG PIKE	191+89, 49' RT											2	1		1
203	IC-3	HARRISBURG PIKE	191+89, 49' RT	191+93, 44' RT	6						1						
203	SE A-1	HARRISBURG PIKE	191+93, 44' RT			150			1								
203	IC-2	HARRISBURG PIKE	191+93, 44' RT	196+00, 30' RT		411						411					
HARRISBURG PIKE BETWEEN STA. 196+00 AND 212+00																	
204	IC-1	HARRISBURG PIKE	196+00, 30' RT	212+00, 41' RT		1629						1629					
204	IC-2	HARRISBURG PIKE	206+46, 31' RT			150											
HARRISBURG PIKE BETWEEN STA. 212+00 AND 229+00																	
205	IC-1	HARRISBURG PIKE	212+00, 41' RT	229+00, 31' RT		1729						1729					
205	IC-2	HARRISBURG PIKE	226+18, 32' RT			150											
HARRISBURG PIKE BETWEEN STA. 229+00 AND 240+00																	
206	IC-1	HARRISBURG PIKE	229+00, 31' RT	240+00, 32' RT		1117						1117					
HARRISBURG PIKE BETWEEN STA. 240+00 AND 251+00, INT 1017																	
207	IC-1	HARRISBURG PIKE	240+00, 32' RT	245+29, 32' RT		538						538					
207	WR-1	HARRISBURG PIKE	244+12, 29' RT												1		
207	EC-1	HARRISBURG PIKE	244+12, 29' RT	245+29, 32' RT									118				
207	SE A-1	HARRISBURG PIKE	245+29, 32' RT			150			1								
207	EC-2	HARRISBURG PIKE	245+29, 32' RT										35				
207	IC-3	HARRISBURG PIKE	245+29, 32' RT	245+38, 32' RT	9			9			1						
207	EC-3	HARRISBURG PIKE	245+29, 32' RT	245+38, 32' RT									9				
207	IC-2	HARRISBURG PIKE	245+29, 32' RT	251+00, 47' RT		579	570					579					
207	TC-1	HARRISBURG PIKE	245+38, 32' RT										10	2	1		1
SHEET TOTAL					30	10352	570	9	2	1	4	9018	172	8	3	1	3

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

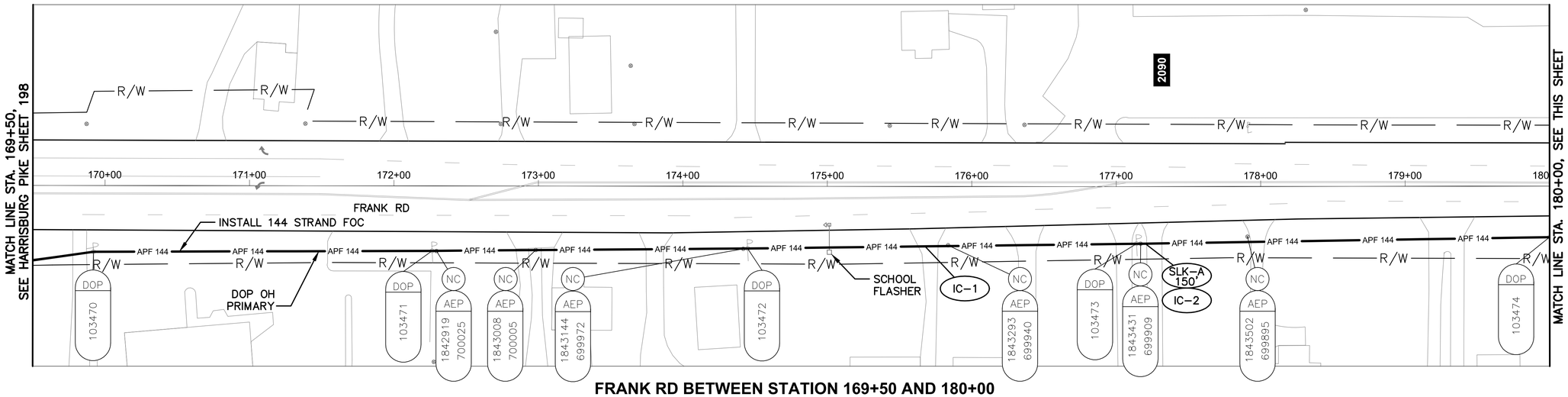
CIP: 540007–100005
PID NUMBER: 14522

HARRISBURG PIKE BTW STA. 162+00 AND 251+00
INTS 1093, 1079, 1017

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

208
911

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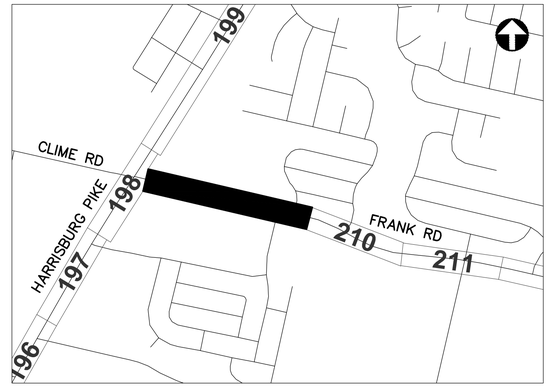


FRANK RD BETWEEN STATION 169+50 AND 180+00

FRANK RD BETWEEN STATION 180+00 AND 188+00

NOTES:

1. SEE SHEET 215 FOR QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☐ LIGHTING

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

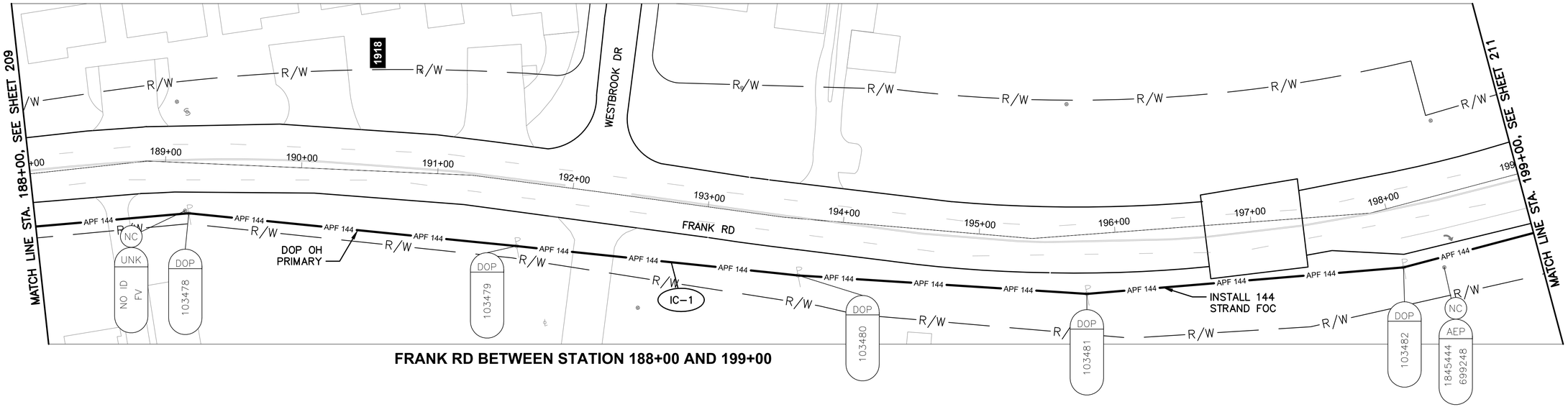
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PID NUMBER: 14522

INTERCONNECT PLAN
FRANK RD BETWEEN STA. 169+50 AND 188+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

209
911

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FRANK RD BETWEEN STATION 188+00 AND 199+00

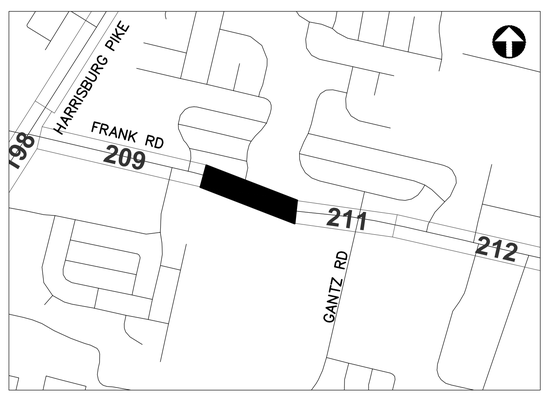
NOTES:

1. SEE SHEET 215 FOR QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☐ LIGHTING



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

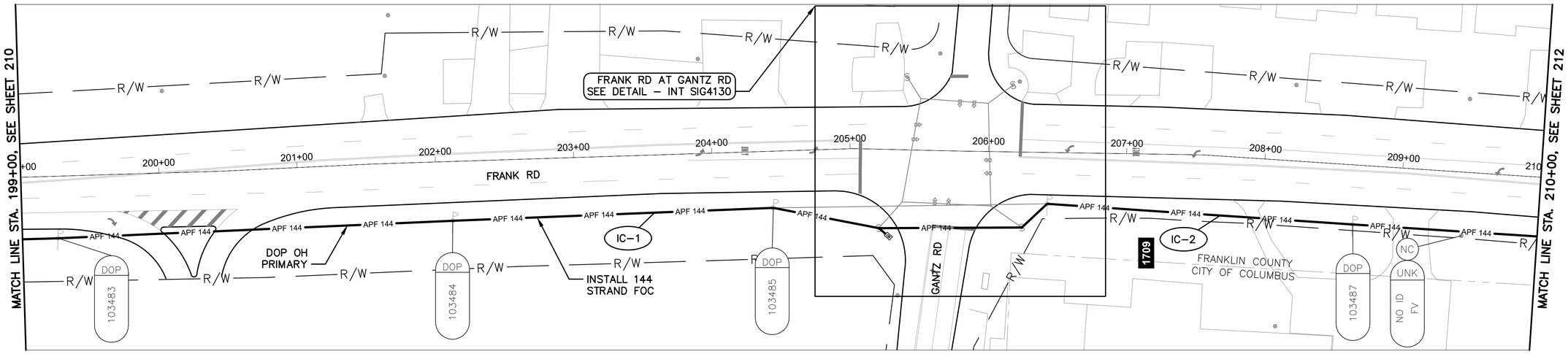
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PID NUMBER: 14522

INTERCONNECT PLAN
FRANK RD BETWEEN STA. 188+00 AND 199+00

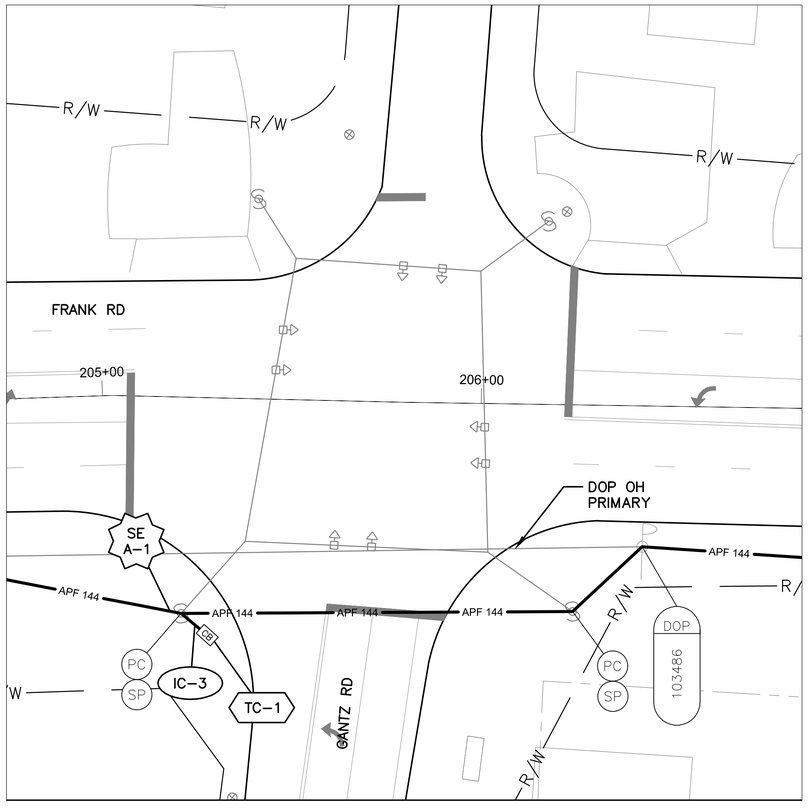
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

210
911

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FRANK RD BETWEEN STATION 199+00 AND 210+00



DETAIL - INT SIG4130

0 20 40
HORIZONTAL
SCALE IN FEET

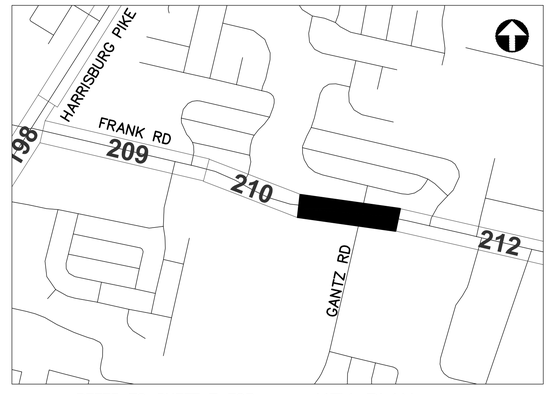
NOTES:

1. SEE SHEET 215 FOR QUANTITIES.
2. SEE SHEETS 604 & 678 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☐ LIGHTING



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

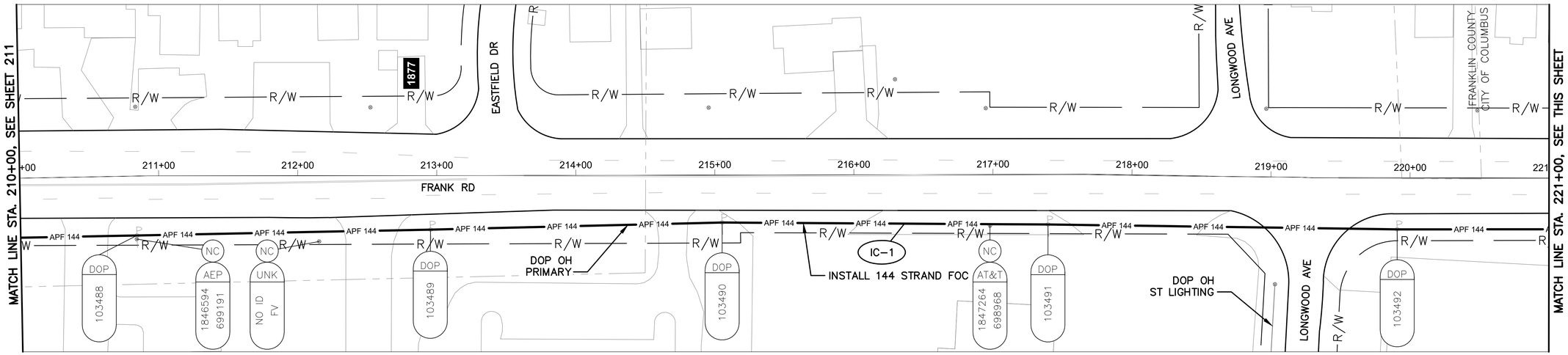
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INTERCONNECT PLAN
FRANK RD BETWEEN STA. 199+00 AND 210+00, INT SIG4130

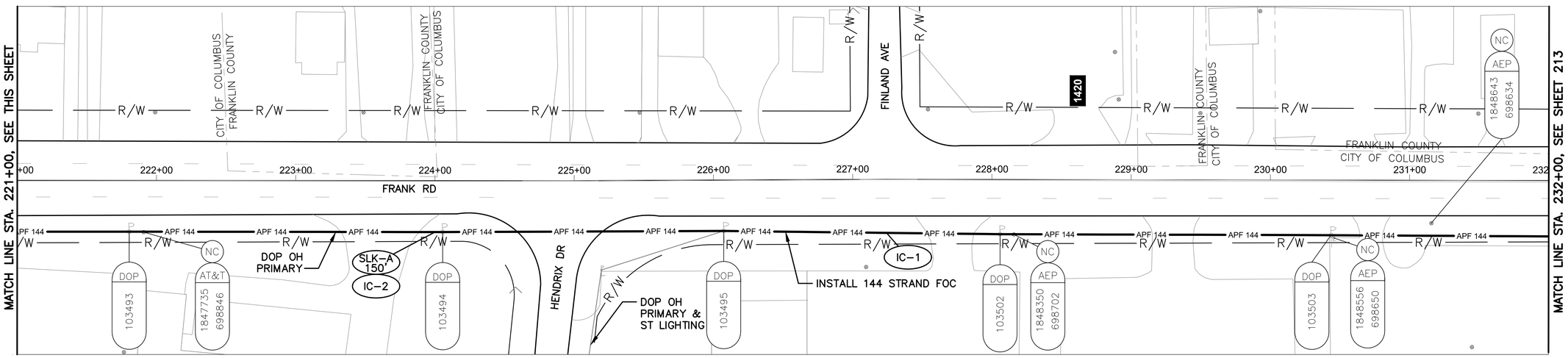
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

211
911

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FRANK RD BETWEEN STATION 210+00 AND 221+00



FRANK RD BETWEEN STATION 221+00 AND 232+00

NOTES:

1. SEE SHEET 215 FOR QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

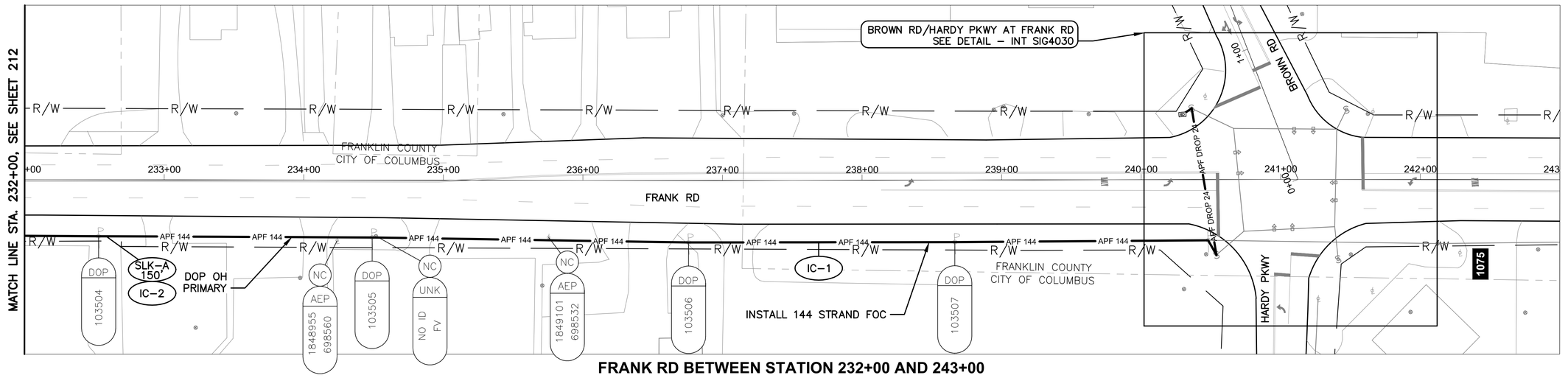
INTERCONNECT PLAN
FRANK RD BETWEEN STA. 210+00 AND 232+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

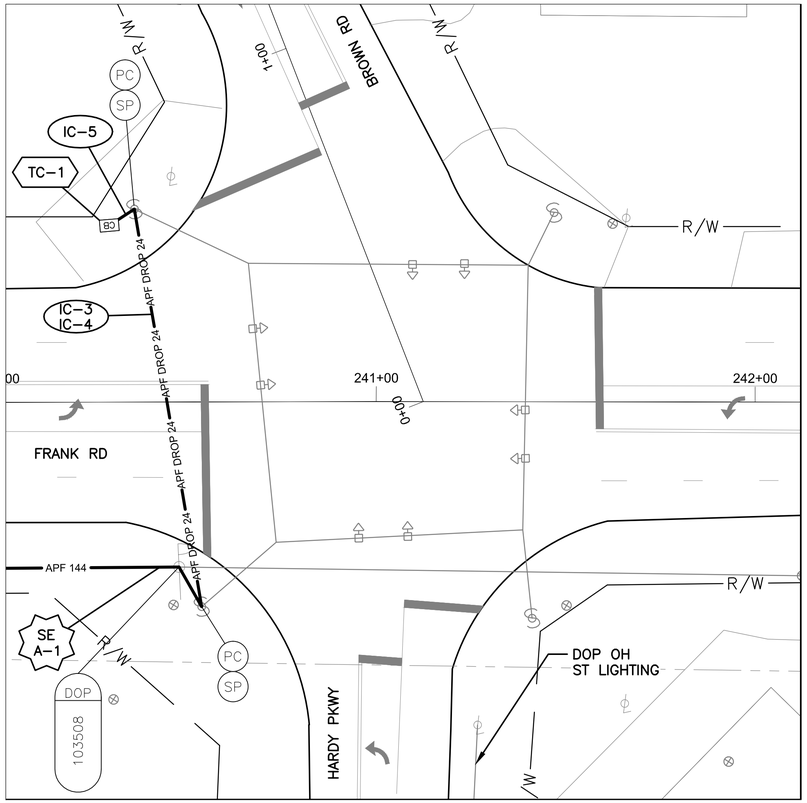
212
911

2953-E

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FRANK RD BETWEEN STATION 232+00 AND 243+00



DETAIL - INT SIG4030

0 20 40
HORIZONTAL
SCALE IN FEET

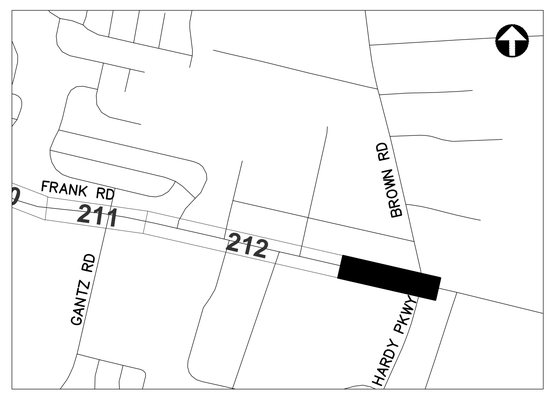
NOTES:

1. SEE SHEET 215 FOR QUANTITIES.
2. SEE SHEETS 604 & 679 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

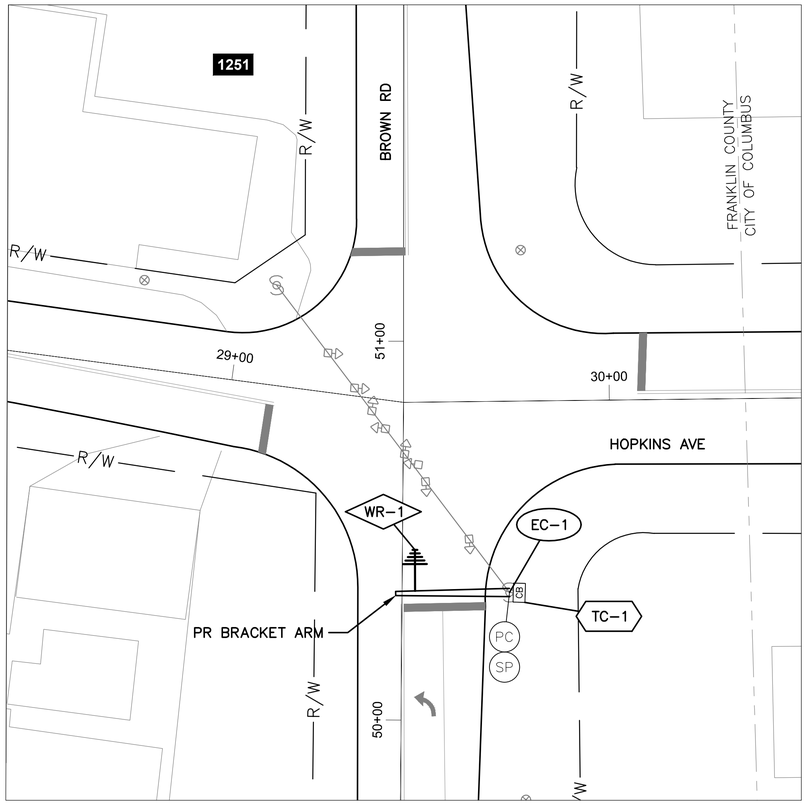
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PID NUMBER: 14522

INTERCONNECT PLAN
FRANK RD BETWEEN STA. 232+00 AND 243+00, INT SIG4030

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

213
911

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DETAIL - INT SIG4035

0 20 40

HORIZONTAL SCALE IN FEET

PROPOSED WIRELESS
SEE SHEET 207
INT. 1017 – BROWN ROAD AT HARRISBURG PIKE

INT #SIG4035 WITH EXISTING SIGNAL CONTROLLER

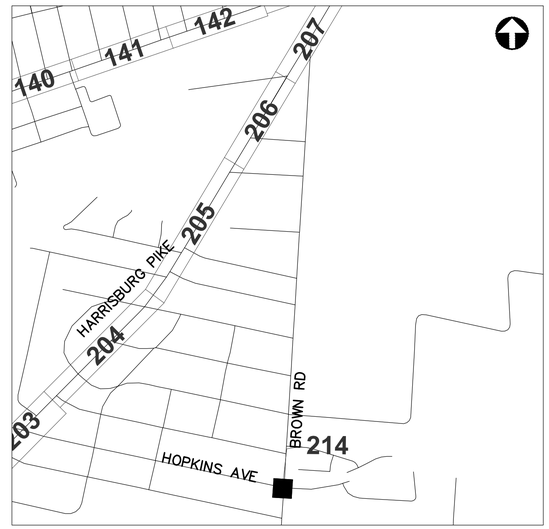
NOTES:

1. SEE SHEET 215 FOR QUANTITIES.
2. SEE SHEETS 604 & 682 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW FLEXIBLE CONDUIT TO CABINET FOR PROPOSED CAT5 CABLE.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 20 40
HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

WIRELESS INTERCONNECT PLAN
BROWN RD AT HOPKINS RD, INT SIG4035

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

214
911

2953-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	202 EXISTING CONDUIT CLEANED, AS PER PLAN (FT)	625 BRACKET ARM, 30', AS PER PLAN (EACH)	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND (FT)	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER (EACH)	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE (EACH)	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE (EACH)	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES (FT)	632 SIGNALIZATION, MISC.: CAT 5E CABLE, OUTDOOR RATED (FT)	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE (EACH)	633 CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE (EACH)	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH (EACH)	633 CONTROLLER ITEM, MISC.: SPREAD SPECTRUM RADIO (EACH)
FRANK RD. BETWEEN STA. 169+50 AND 188+00																
209	IC-1	FRANK RD	169+50, 52' RT	188+00, 39' RT			1877				1877					
209	IC-2	FRANK RD	177+20, 39' RT				150									
209	IC-3	FRANK RD	187+05, 37' RT				150									
FRANK RD. BETWEEN STA. 188+00 AND 199+00																
210	IC-1	FRANK RD	188+00, 39' RT	199+00, 43' RT			1124				1124					
FRANK RD. BETWEEN STA. 199+00 AND 210+00, INT SIG4130																
211	IC-1	FRANK RD	199+00, 43' RT	205+31, 55' RT			639				639					
211	SE A-1	FRANK RD	205+31, 55' RT				150	1								
211	IC-3	FRANK RD	205+31, 55' RT	205+36, 63' RT	9				1							
211	IC-2	FRANK RD	205+31, 55' RT	210+00, 43' RT			481				481					
211	TC-1	FRANK RD	205+36, 63' RT										2		1	
FRANK RD. BETWEEN STA. 210+00 AND 232+00																
212	IC-1	FRANK RD	210+00, 43' RT	232+00, 40' RT			2232				2232					
212	IC-2	FRANK RD	224+00, 37' RT				150									
FRANK RD. BETWEEN STA. 232+00 AND 243+00, INT SIG4030																
213	IC-1	FRANK RD	232+00, 40' RT	240+47, 44' RT			861				861					
213	IC-2	FRANK RD	232+58, 40' RT				75									
213	TC-1	FRANK RD	240+29, 47' LT										2		1	
213	IC-5	FRANK RD	240+29, 47' LT	240+36, 51' LT	8											
213	IC-4	FRANK RD	240+29, 47' LT	240+47, 44' RT						1						
213	IC-3	FRANK RD	240+36, 51' LT	240+47, 44' RT							120					
213	SE A-1	FRANK RD	240+47, 44' RT				75	1								
BROWN RD. AT HOPKINS AVE., INT SIG4035																
214	EC-1	BROWN RD	50+33, 28' RT									45				
214	TC-1	BROWN RD	50+33, 28' RT											1	1	
214	WR-1	BROWN RD	50+34, 3' RT													1
SHEET TOTAL					17	1	7964	2	1	1	7334	45	4	1	3	1

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

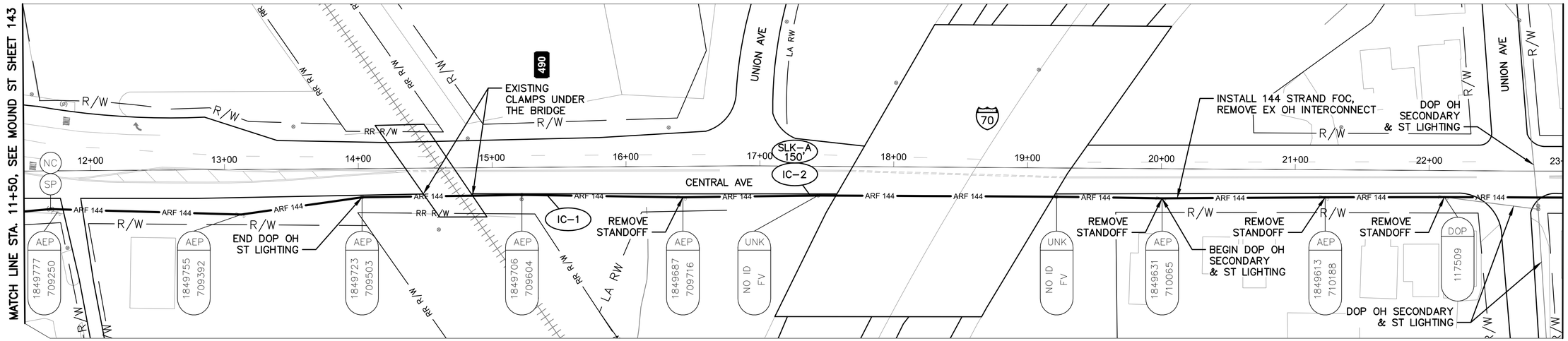
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PID NUMBER: 14522

FRANK RD. BTW STA. 169+50 AND 243+00, INTS SIG4130, SIG4030
BROWN RD. AT HOPKINS AVE., INT SIG4035

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c – CONSTRUCTION AS–BUILT

215
911

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CENTRAL AVE BETWEEN STATION 11+50 AND 23+00

NOTES:

1. SEE SHEET 222 FOR QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

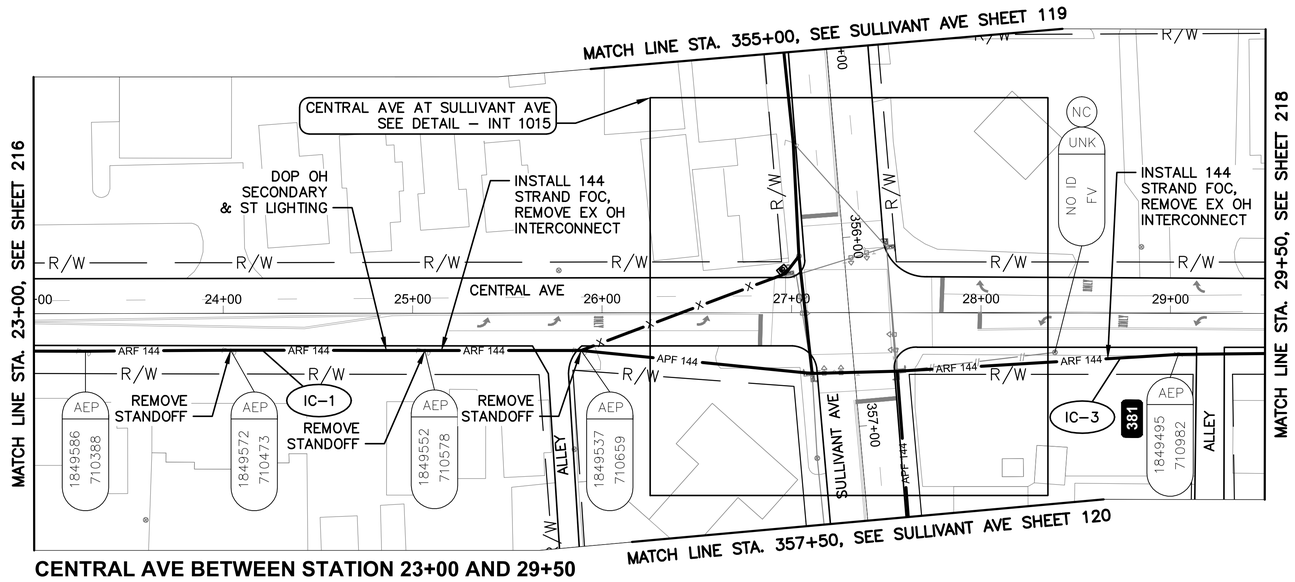
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INTERCONNECT PLAN
CENTRAL AVE BETWEEN STA. 11+50 AND 23+00

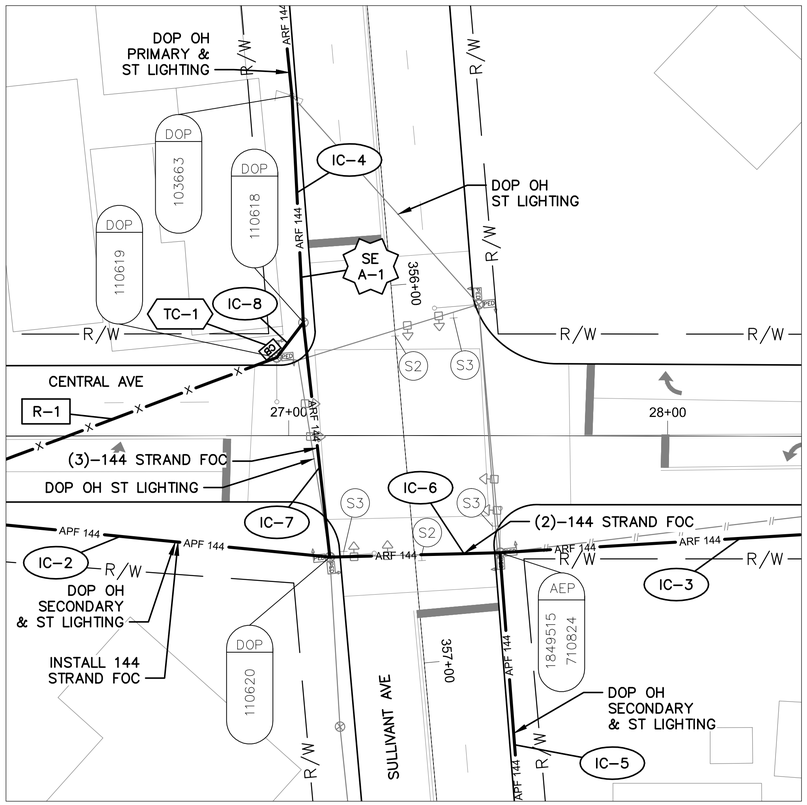
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

216
911

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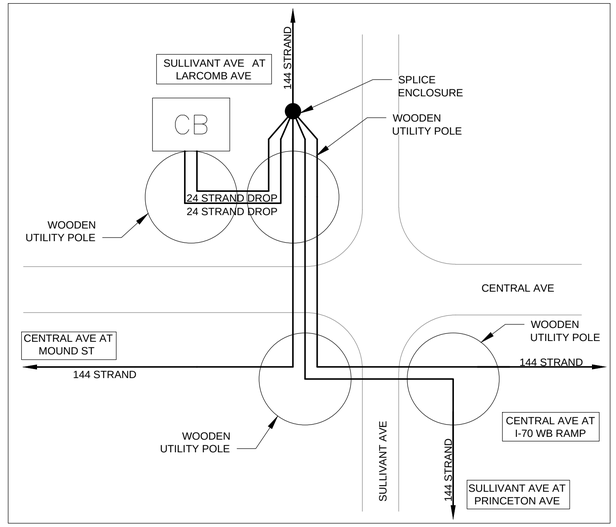


CENTRAL AVE BETWEEN STATION 23+00 AND 29+50



DETAIL - INT 1015

0 20 40
HORIZONTAL SCALE IN FEET



CABLE SCHEMATIC

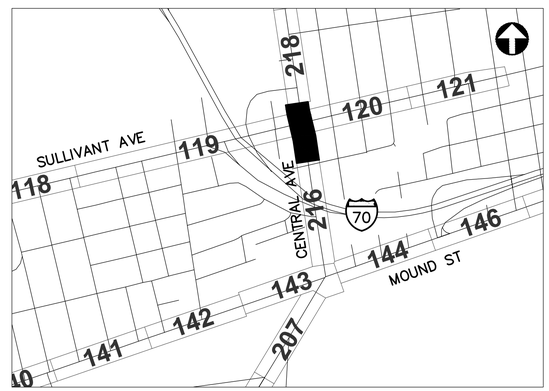
NOT TO SCALE

NOTES:

1. SEE SHEET 222 FOR QUANTITIES.
2. SEE SHEETS 603 & 686 FOR COMMUNICATION DETAILS.
3. FOR THE SPLICE ENCLOSURE AT INT 1046, PROVIDE 75' OF SLACK FROM ALL FOUR DIRECTIONS FOR THE 300' TOTAL.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN

NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

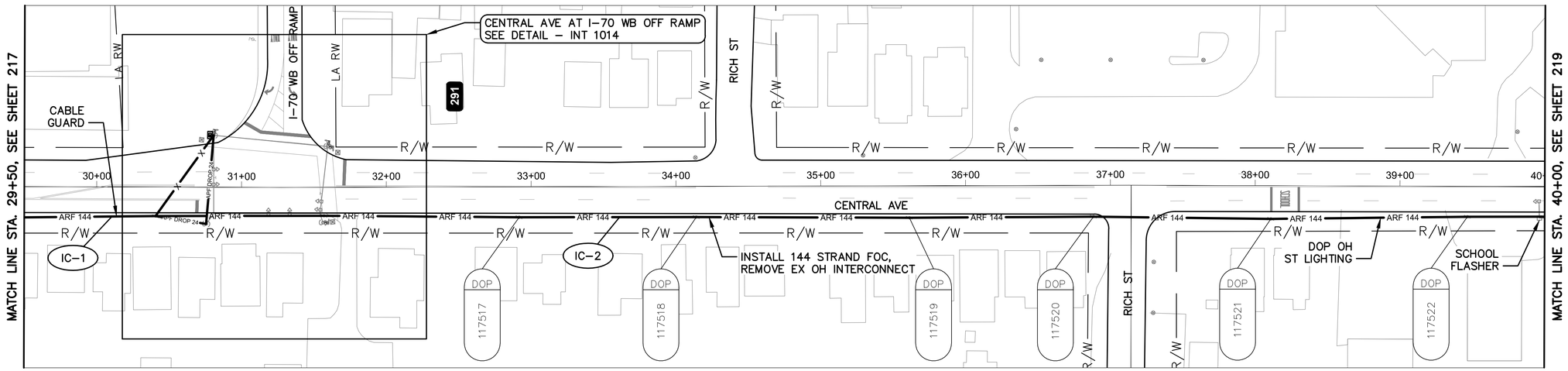
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INTERCONNECT PLAN
CENTRAL AVE BETWEEN STA. 23+00 AND 29+50, INT 1015

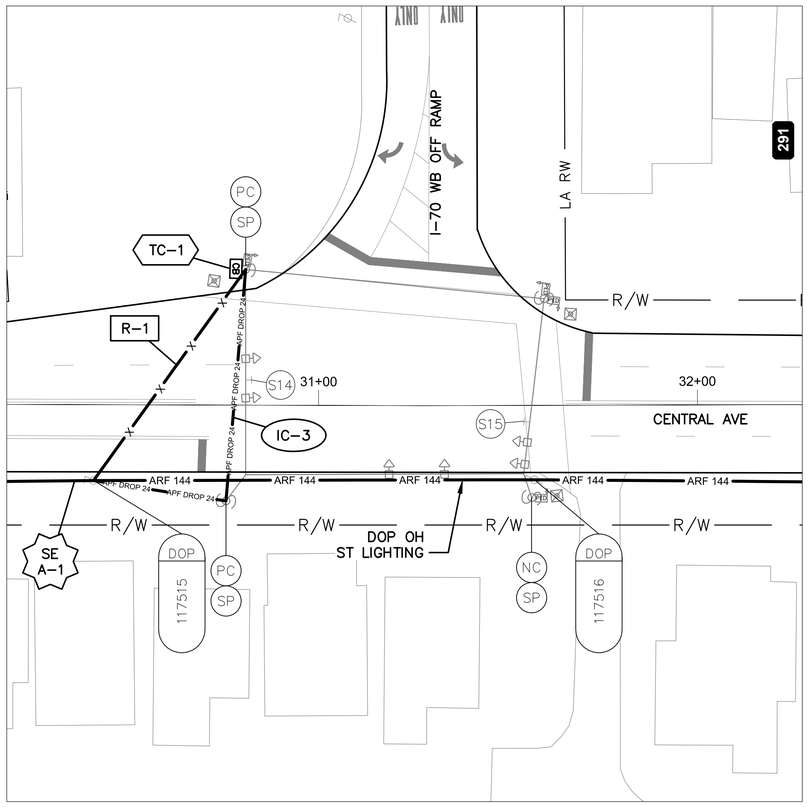
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c – CONSTRUCTION AS–BUILT

217
911

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CENTRAL AVE BETWEEN STATION 29+50 AND 40+00



DETAIL - INT 1014

0 20 40

HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 222 FOR QUANTITIES.
2. SEE SHEETS 605 & 688 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

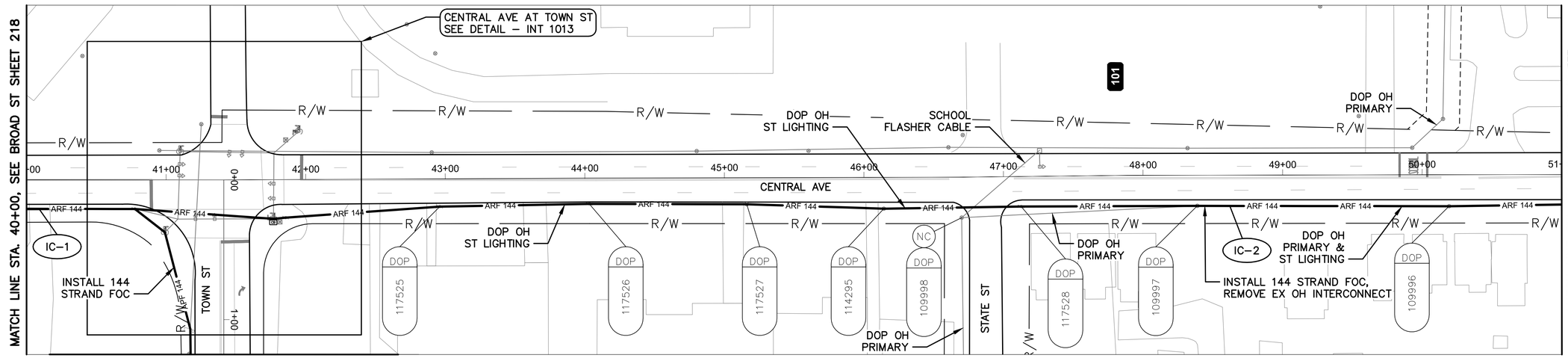
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
CENTRAL AVE BETWEEN STA. 29+50 AND 40+00, INT 1014

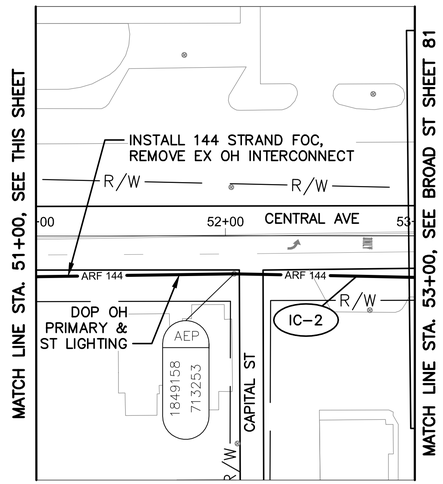
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

218
911

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CENTRAL AVE BETWEEN STATION 40+00 AND 51+00



CENTRAL AVE BETWEEN STATION 51+00 AND 53+00

DETAIL - INT 1013

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 222 FOR QUANTITIES.
2. SEE SHEETS 605 & 671 FOR COMMUNICATION DETAILS.
3. FOR THE SPLICE ENCLOSURE AT INT 1046, PROVIDE 75' OF SLACK FROM ALL THREE DIRECTIONS FOR THE 225' TOTAL.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

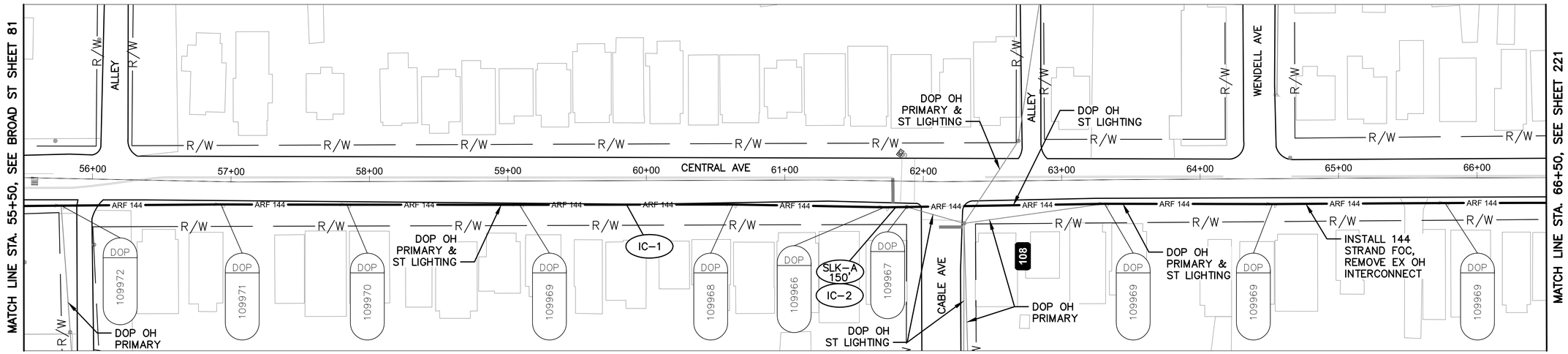
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
CENTRAL AVE BETWEEN STA. 40+00 AND 53+00, INT 1013

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

219
911

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CENTRAL AVE BETWEEN STATION 55+50 AND 66+50

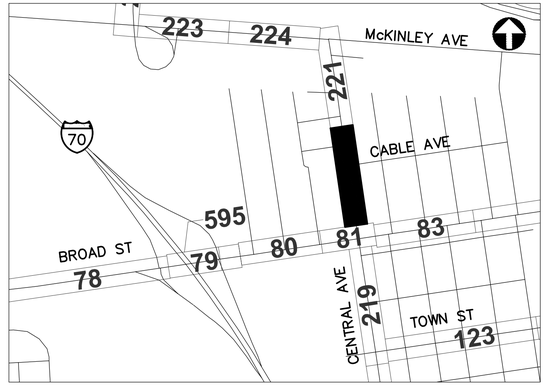
NOTES:

1. SEE SHEET 222 FOR QUANTITIES.
2. SEE SHEET 605 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

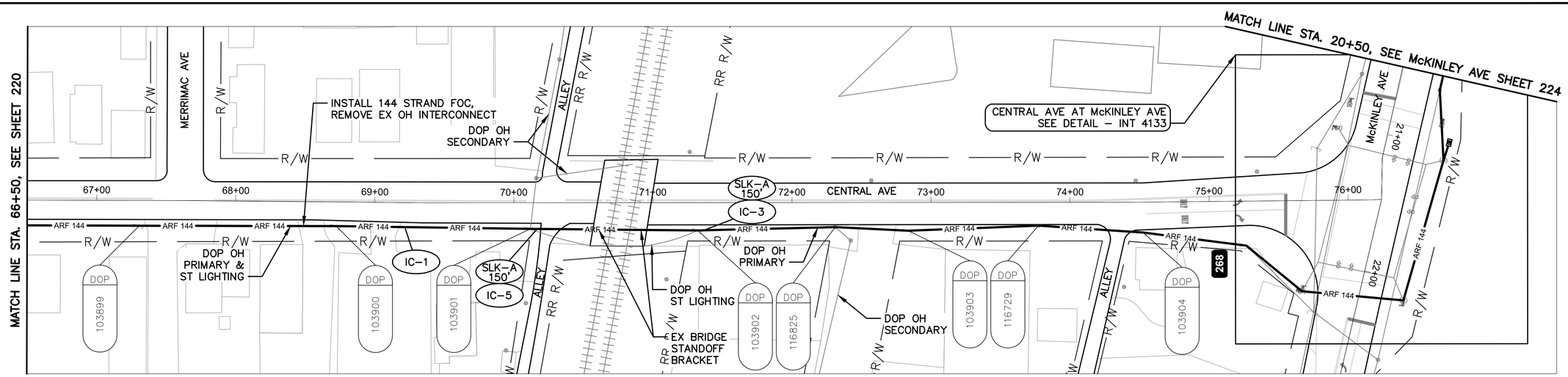
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
CENTRAL AVE BETWEEN STA. 55+50 AND 66+50

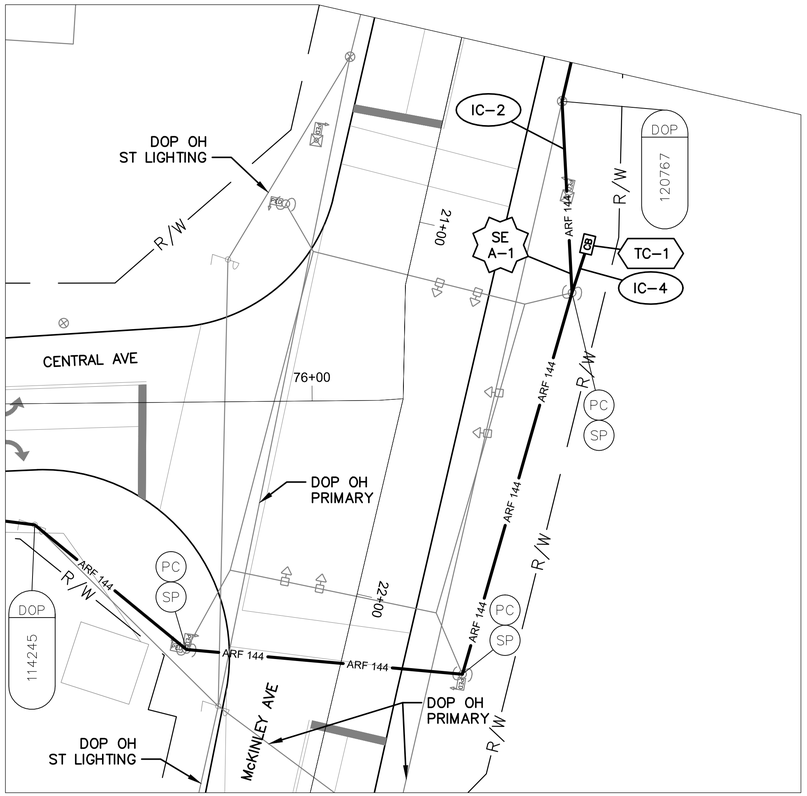
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c - CONSTRUCTION AS-BUILT

220
911

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CENTRAL AVE BETWEEN STATION 66+50 AND 76+24



DETAIL - INT 4133

0 20 40

HORIZONTAL SCALE IN FEET

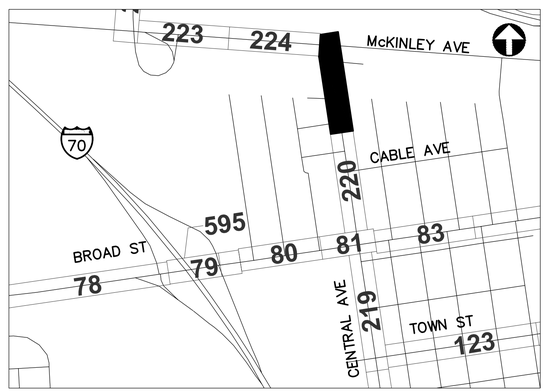
NOTES:

1. SEE SHEET 222 FOR QUANTITIES.
2. SEE SHEETS 605 & 689 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
CENTRAL AVE BETWEEN STA. 66+50 AND 76+24, INT 4133

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

221
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	202 EXISTING CONDUIT CLEANED, AS PER PLAN FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND FT	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT FT	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT FT	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER EACH	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 FIBER EACH	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE EACH	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE EACH	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES FT	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE EACH	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH EACH	633 CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER EACH	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN EACH
CENTRAL AVE. BETWEEN STA. 11+50 AND 23+00																	
216	IC-1	CENTRAL AVE	11+50, 30' RT	23+00, 20' RT		1168	1151						1168				
216	IC-2	CENTRAL AVE	17+37, 22' RT			150											
CENTRAL AVE. BETWEEN STA. 23+00 AND 29+50, INT 1015																	
217	IC-1	CENTRAL AVE	23+00, 20' RT	25+88, 20' RT		293	289						293				
217	IC-2	CENTRAL AVE	25+88, 20' RT	27+10, 32' RT		125							125				
217	R-1	CENTRAL AVE	25+88, 20' RT	26+96, 21' LT			115										
217	IC-4	CENTRAL AVE	26+96, 137' LT	27+03, 30' LT		110	108						110				
217	TC-1	CENTRAL AVE	26+96, 21' LT											3	1		1
217	IC-8	CENTRAL AVE	26+96, 21' LT	27+03, 30' LT			11				2		11				
217	IC-7	CENTRAL AVE	27+03, 30' LT	27+10, 32' RT		126	62										
217	SE A-1	CENTRAL AVE	27+03, 30' LT			300			1								
217	IC-3	CENTRAL AVE	27+03, 30' LT	29+50, 21' RT		306	301						306				
217	IC-6	CENTRAL AVE	27+10, 32' RT	27+55, 31' RT		45											
217	IC-5	CENTRAL AVE	27+55, 31' RT	27+61, 108' RT		78							78				
CENTRAL AVE. BETWEEN STA. 29+50 AND 40+00, INT 1014																	
218	IC-1	CENTRAL AVE	29+50, 21' RT	30+40, 20' RT		92	91						92				
218	IC-3	CENTRAL AVE	30+40, 20' RT	30+80, 36' LT								1	98				
218	R-1	CENTRAL AVE	30+40, 20' RT	30+80, 36' LT			69										
218	SE A-1	CENTRAL AVE	30+40, 20' RT			150			1								
218	IC-2	CENTRAL AVE	30+40, 20' RT	40+00, 21' RT		973	959						973				
218	TC-1	CENTRAL AVE	30+80, 36' LT											2	1		1
CENTRAL AVE. BETWEEN STA. 40+00 AND 53+00, INT 1013																	
219	IC-1	CENTRAL AVE	40+00, 21' RT	40+77, 21' RT		79	78						79				
219	SE A-1	CENTRAL AVE	40+77, 21' RT			225			1								
219	IC-3	CENTRAL AVE	40+77, 21' RT	41+17, 125' RT		119							119				
219	IC-4	CENTRAL AVE	40+77, 21' RT	41+76, 28' RT								2					
219	IC-2	CENTRAL AVE	40+77, 21' RT	53+00, 22' RT		1241	1223						1241				
219	TC-1	CENTRAL AVE	41+76, 28' RT											4	1	1	
CENTRAL AVE. BETWEEN STA. 55+50 AND 66+50																	
220	IC-1	CENTRAL AVE	55+50, 20' RT	66+50, 18' RT		1117	1100						1117				
220	IC-2	CENTRAL AVE	61+80, 19' RT			150											
CENTRAL AVE. BETWEEN STA. 66+50 AND 76+24, INT 4133																	
221	IC-1	CENTRAL AVE	66+50, 18' RT	76+64, 25' LT		1172	1155						1172				
221	IC-5	CENTRAL AVE	70+03, 19' RT			150											
221	IC-3	CENTRAL AVE	71+37, 20' RT			150											
221	IC-2	CENTRAL AVE	76+56, 87' LT	76+64, 25' LT		98	97						98				
221	SE A-1	CENTRAL AVE	76+64, 25' LT			150			1								
221	IC-4	CENTRAL AVE	76+64, 25' LT	76+75, 37' LT	13			13			1						
221	TC-1	CENTRAL AVE	76+75, 37' LT											2	1		1
SHEET TOTAL					13	8567	6809	13	2	2	3	3	7080	11	4	1	3

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

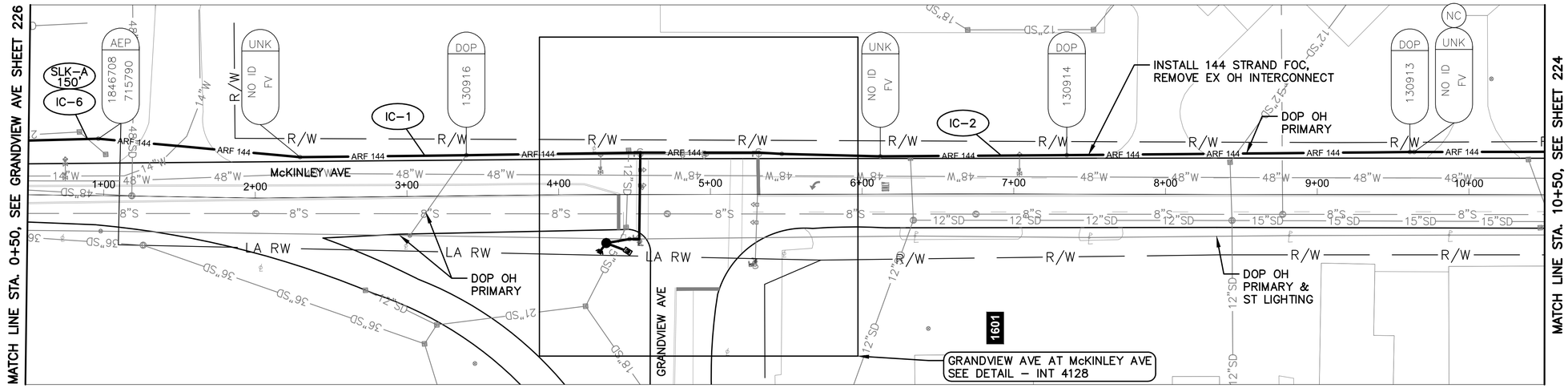
CIP: 540007–100005
PID NUMBER: 14522

CENTRAL AVE. BTW STA. 11+50 AND 76+24
INTS 1015, 1014, 1013, 4133

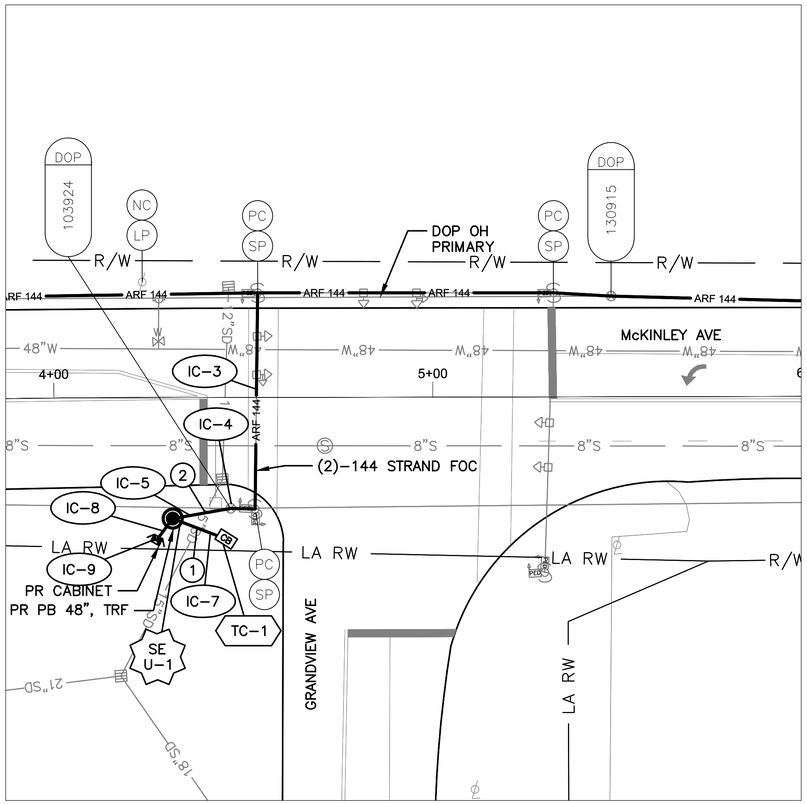
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

222
911

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McKINLEY AVE BETWEEN STATION 0+50 AND 10+50



DETAIL - INT 4128

0 20 40

HORIZONTAL SCALE IN FEET

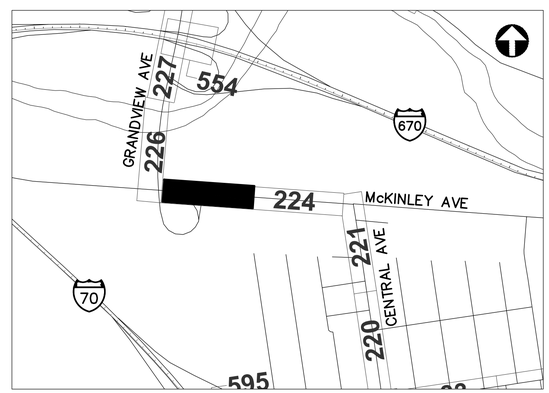
NOTES:

1. SEE SHEET 225 FOR QUANTITIES.
2. SEE SHEETS 601 & 690 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

80 40 0 HORIZONTAL SCALE IN FEET

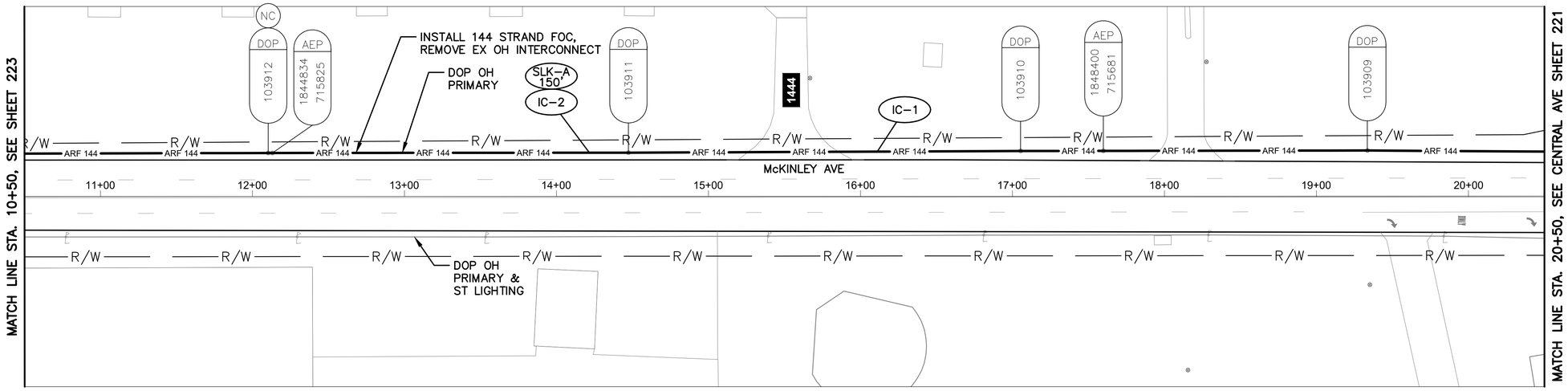
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
McKINLEY AVE BETWEEN STA. 0+50 AND 10+50, INT 4128

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

223
911

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McKINLEY AVE BETWEEN STATION 10+50 AND 20+50

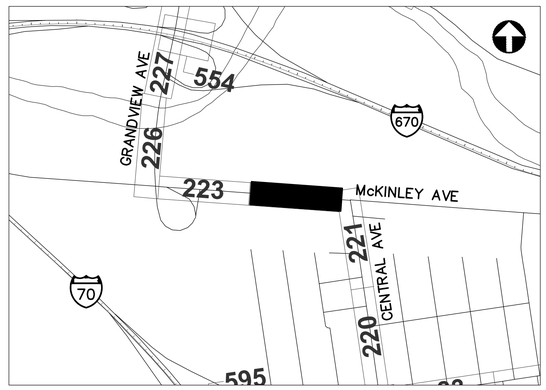
NOTES:

1. SEE SHEET 225 FOR QUANTITIES.
2. SEE SHEET 601 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
McKINLEY AVE BETWEEN STA. 10+50 AND 20+50

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

224
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		625 CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN	625 PULL BOX, 48", AS PER PLAN	625 TRENCH, 36" DEEP, AS PER PLAN	632 CONDUIT RISER, 3", 725.04, AS PER PLAN	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 144 STRAND, PRE-TERMINATED	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 FIBER	632 INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	633 CABINET, TYPE 334, AS PER PLAN	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN					
			FROM	TO	FT	EACH	FT	EACH	FT	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH					
McKINLEY AVE. BETWEEN STA. 0+50 AND 10+50, INT 4128																								
223	IC-1	McKINLEY AVE	0+50, 36' LT	4+53, 28' LT					410		404				410									
223	IC-6	McKINLEY AVE	0+88, 37' LT						150															
223	IC-9	McKINLEY AVE	4+27, 38' RT							20			2			1								
223	IC-8	McKINLEY AVE	4+27, 38' RT	4+31, 32' RT	7		7			14														
223	SE U-1	McKINLEY AVE	4+31, 32' RT			1			150	150		1												
223	IC-7	McKINLEY AVE	4+31, 32' RT	4+45, 37' RT	15		15							1										
223	IC-5	McKINLEY AVE	4+31, 32' RT	4+46, 29' RT	16		16		32															
223	TC-1	McKINLEY AVE	4+45, 37' RT																2	1	1			
223	IC-3	McKINLEY AVE	4+46, 29' RT	4+53, 28' LT					128						63									
223	IC-4	McKINLEY AVE	4+46, 29' RT					2	70															
223	IC-2	McKINLEY AVE	4+53, 28' LT	10+50, 28' LT					605		596				605									
McKINLEY AVE. BETWEEN STA. 10+50 AND 20+50																								
224	IC-1	McKINLEY AVE	10+50, 28' LT	20+50, 30' LT					1015		1000				1015									
224	IC-2	McKINLEY AVE	12+05, 29' LT						150															
SHEET TOTAL					38	1	38	2	2710	184	2000	1	2	1	2093	1	2	1	1	-	-	-	-	-

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

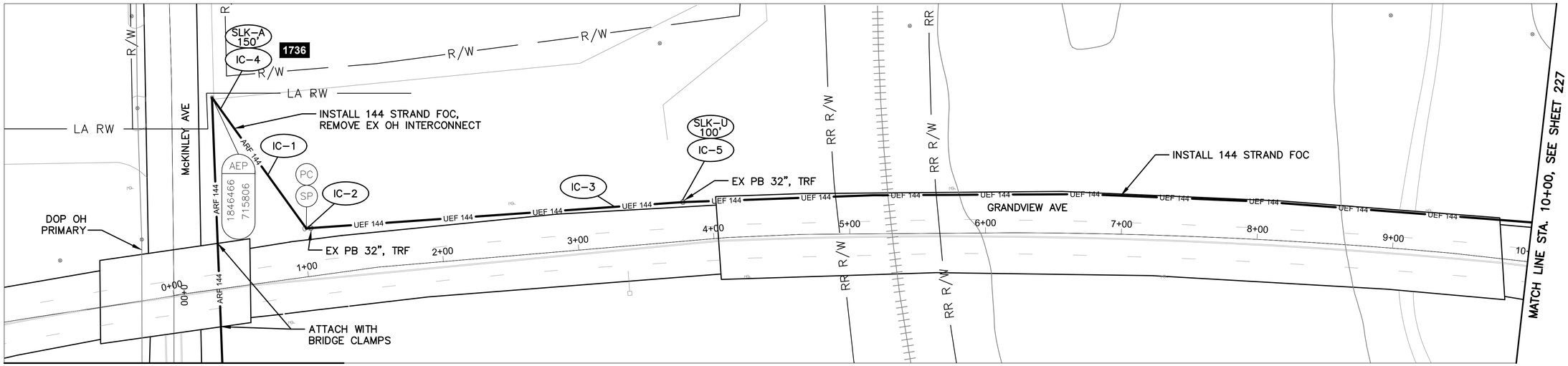
CIP: 540007-100005
PID NUMBER: 14522

McKINLEY AVE. BTW STA. 0+50 AND 20+50
INT 4128

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

225
911

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MATCH LINE McKINLEY AVE STA. 0+50, SEE SHEET 223

GRANDVIEW AVE BETWEEN STATION 0+00 AND 10+00

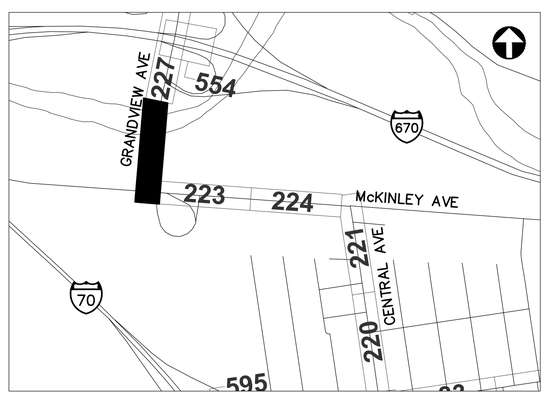
NOTES:

1. SEE SHEET 229 FOR QUANTITIES.
2. SEE SHEET 601 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

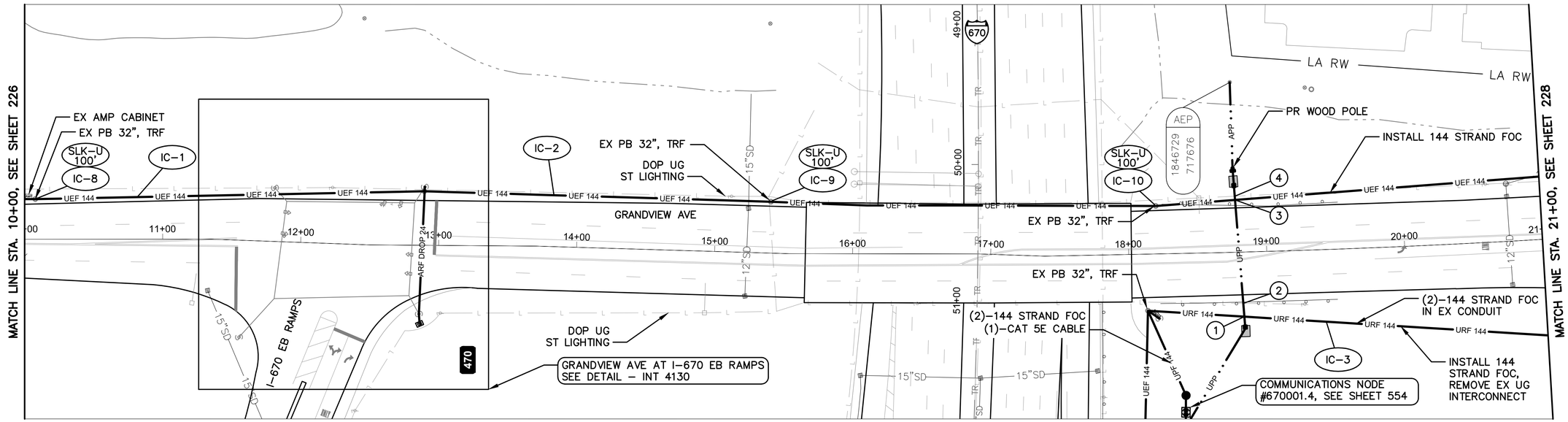
INTERCONNECT PLAN
GRANDVIEW AVE BETWEEN STA. 0+00 AND 10+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

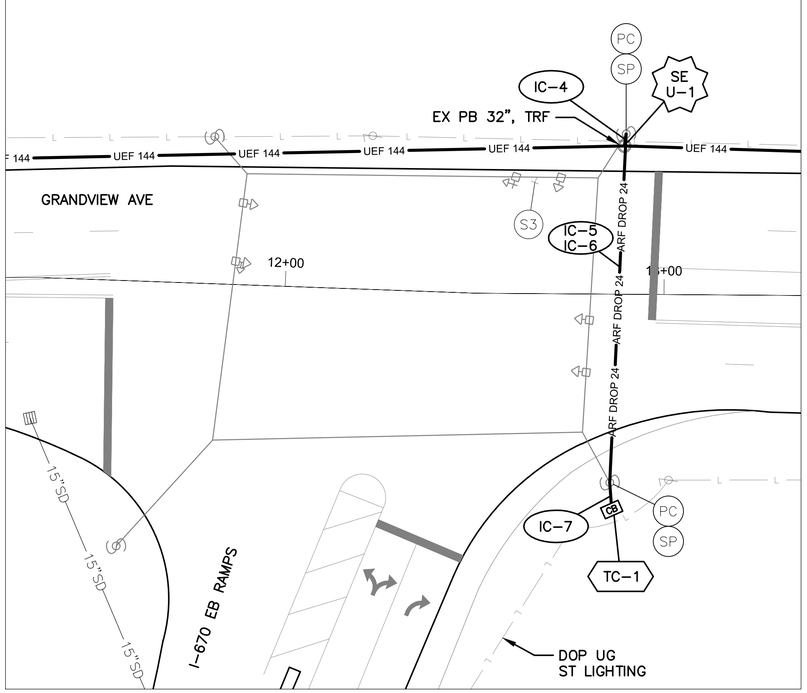
226
911

2953-E

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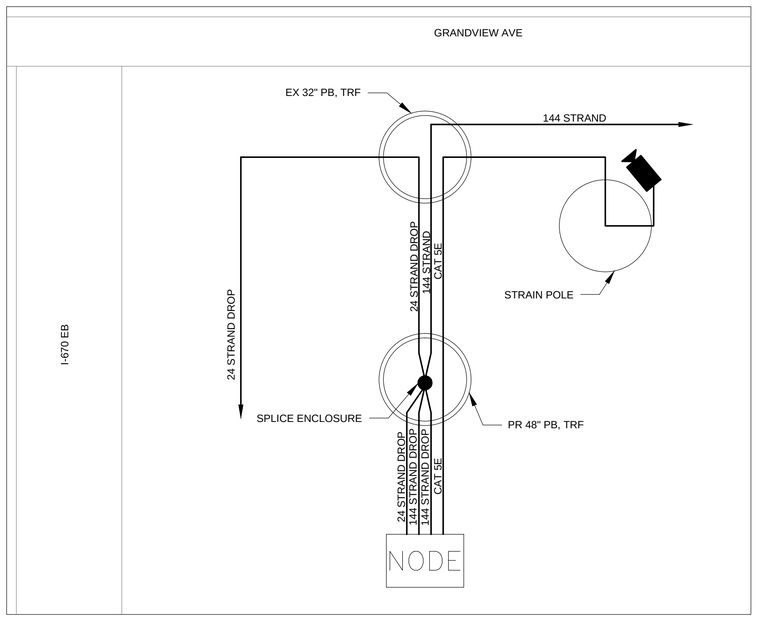
GRANDVIEW AVE BETWEEN STATION 10+00 AND 21+00



DETAIL - INT 4130

0 20 40

HORIZONTAL SCALE IN FEET



CABLE SCHEMATIC

NOT TO SCALE

NOTES:

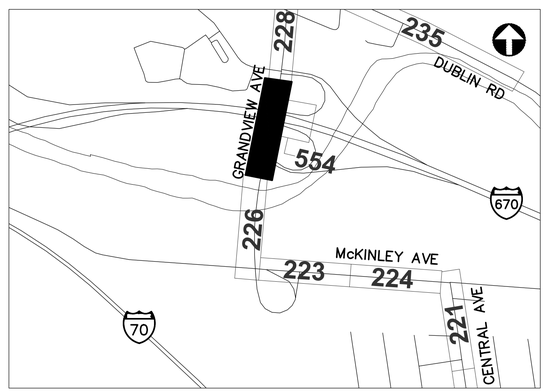
1. SEE SHEET 229 FOR QUANTITIES.
2. SEE SHEETS 601 & 691 FOR COMMUNICATION DETAILS.
3. QUANTITIES FOR ITEMS EAST OF PULL BOX AT STA. 18+21, 36' RT AND ALL POWER WILL BE INCLUDED ON NODE SHEET 554
4. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.
5. SEE SHEETS 297 & 554 FOR POWER PLAN & DETAILS.
6. SEE SHEETS 555 & 556 FOR NODE QUANTITIES.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 12.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN

NOT TO SCALE

0 40 80

HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

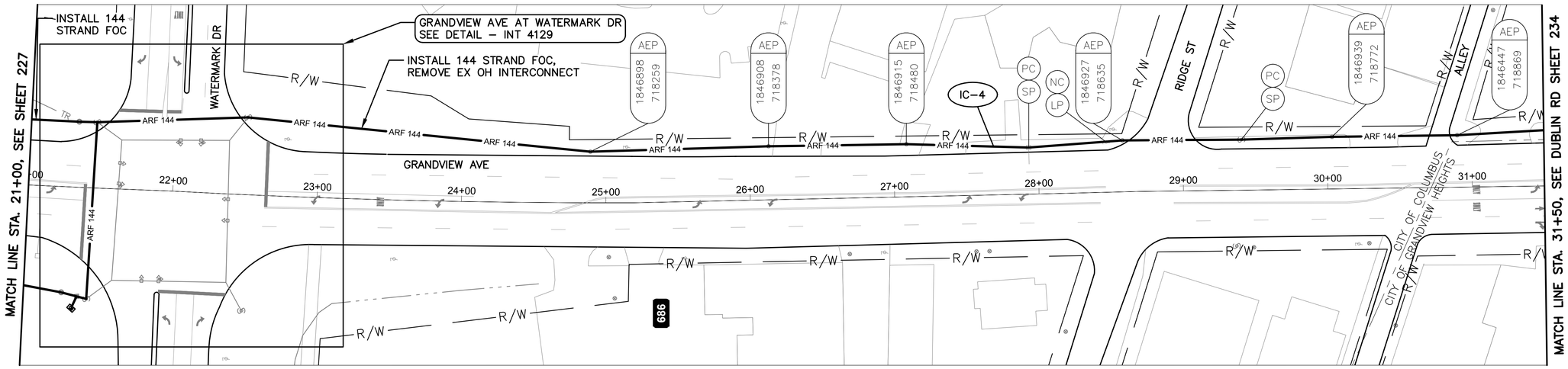
INTERCONNECT PLAN
GRANDVIEW AVE BETWEEN STA. 10+00 AND 21+00, INT 4130

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

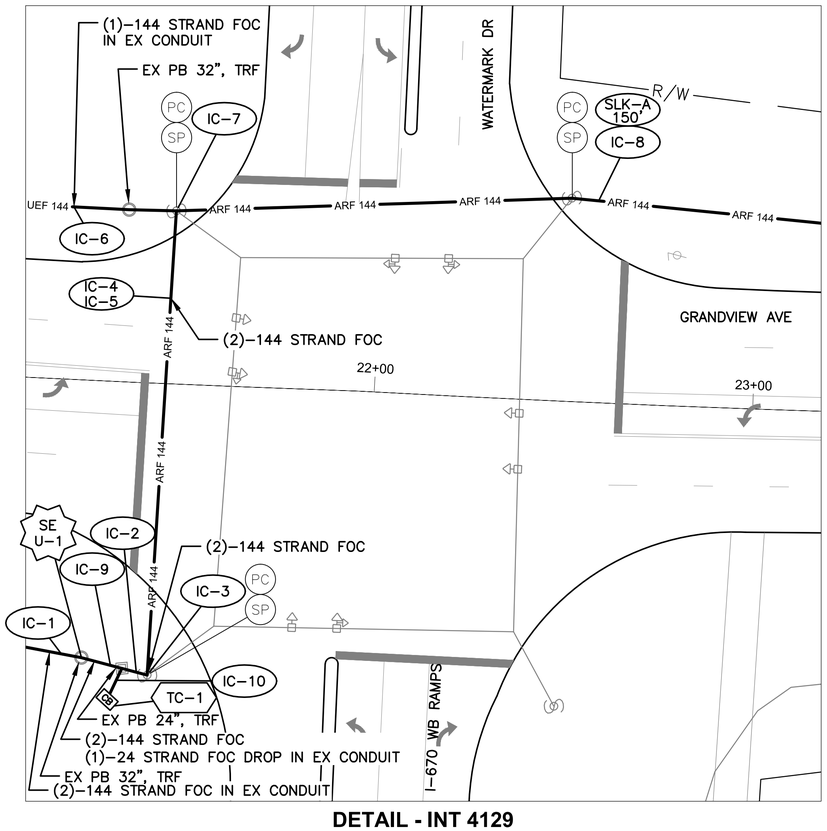
227
911

2953-E

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_GRANDVIEW_INTERCONNECT.dwg - GRANDVIEW 2 layout ~ last saved by: sdlowry 05/08/2017 03:03pm ~ printed 05/08/2017 08:55pm

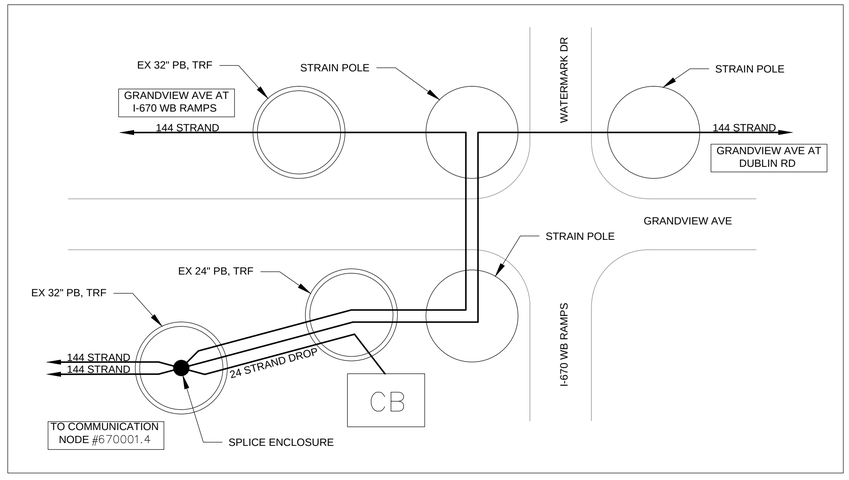


GRANDVIEW AVE BETWEEN STATION 21+00 AND 31+50



DETAIL - INT 4129

0 20 40
HORIZONTAL SCALE IN FEET



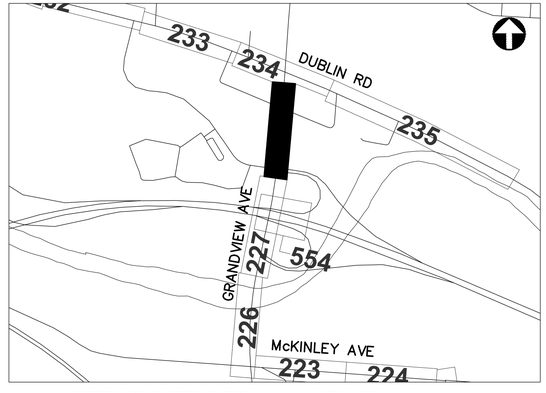
CABLE SCHEMATIC
NOT TO SCALE

NOTES:

1. SEE SHEET 229 FOR QUANTITIES.
2. SEE SHEETS 601 & 692 FOR COMMUNICATION DETAILS.
3. THE 144 STRAND FOC FROM SOUTH IS SPLICED AT STA. 21+26, 73' RT. THE 144 STRAND FOC CABLE FROM NORTH IS PASSED THROUGH THE PULLBOX TO NODE 670001.4.
4. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
GRANDVIEW AVE BETWEEN STA. 21+00 AND 31+50, INT 4129

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

228
911

2953-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	202 EXISTING CONDUIT CLEANED, AS PER PLAN FT	632 CONDUIT RISER, 3", 725.04, AS PER PLAN EACH	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND FT	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT FT	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT FT	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE CLAMSHELL, 144 FIBER EACH	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE EACH	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE EACH	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES FT	632 SIGNALIZATION, MISC.: AERIAL CLAMP, ATTACHED TO BRIDGE EACH	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE EACH	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH EACH	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN EACH
GRANDVIEW AVE. BETWEEN STA. 0+00 AND 10+00																	
226	IC-1	GRANDVIEW AVE	0+28, 54' RT	1+03, 35' LT			320	315					320	2			
226	IC-4	GRANDVIEW AVE	0+50, 135' LT				150										
226	IC-2	GRANDVIEW AVE	1+03, 35' LT			1	35										
226	IC-3	GRANDVIEW AVE	1+03, 35' LT	10+00, 29' LT	904		904										
226	IC-5	GRANDVIEW AVE	3+79, 29' LT				100										
GRANDVIEW AVE. BETWEEN STA. 10+00 AND 21+00, INT 4130																	
227	IC-1	GRANDVIEW AVE	10+00, 29' LT	12+89, 39' LT	290		290										
227	IC-8	GRANDVIEW AVE	10+09, 29' LT				100										
227	IC-6	GRANDVIEW AVE	12+86, 50' RT	12+89, 42' LT				92					93				
227	IC-7	GRANDVIEW AVE	12+86, 50' RT	12+86, 57' RT	7				7								
227	TC-1	GRANDVIEW AVE	12+86, 57' RT												2	1	1
227	IC-5	GRANDVIEW AVE	12+86, 57' RT	12+89, 39' LT								1					
227	SE U-1	GRANDVIEW AVE	12+89, 39' LT				150			1							
227	IC-4	GRANDVIEW AVE	12+89, 39' LT	12+89, 42' LT	3												
227	IC-2	GRANDVIEW AVE	12+89, 39' LT	21+00, 46' LT	808		808										
227	IC-9	GRANDVIEW AVE	15+39, 37' LT				100										
227	IC-10	GRANDVIEW AVE	18+20, 35' LT				100										
227	IC-3	GRANDVIEW AVE	18+20, 37' RT	21+00, 70' RT	283		566		283								
GRANDVIEW AVE. BETWEEN STA. 21+00 AND 31+50, INT 4129																	
228	IC-6	GRANDVIEW AVE	21+00, 46' LT	21+45, 46' LT	46		46										
228	IC-1	GRANDVIEW AVE	21+00, 70' RT	21+26, 73' RT	27		54		27								
228	SE U-1	GRANDVIEW AVE	21+26, 73' RT				150			1							
228	IC-9	GRANDVIEW AVE	21+26, 73' RT	21+33, 84' RT							1						
228	IC-2	GRANDVIEW AVE	21+26, 73' RT	21+43, 77' RT	18		36		18								
228	TC-1	GRANDVIEW AVE	21+33, 84' RT												2	1	1
228	IC-10	GRANDVIEW AVE	21+33, 84' RT	21+36, 76' RT	9				9								
228	IC-4	GRANDVIEW AVE	21+43, 77' RT	31+50, 39' LT			1143	1126					1143				
228	IC-3	GRANDVIEW AVE	21+43, 77' RT				70										
228	IC-5	GRANDVIEW AVE	21+43, 77' RT	21+45, 46' LT			123										
228	IC-7	GRANDVIEW AVE	21+45, 46' LT				35										
228	IC-8	GRANDVIEW AVE	22+57, 53' LT				150										
SHEET TOTAL					2395	1	5430	1533	344	2	1	1	1556	2	4	2	2

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

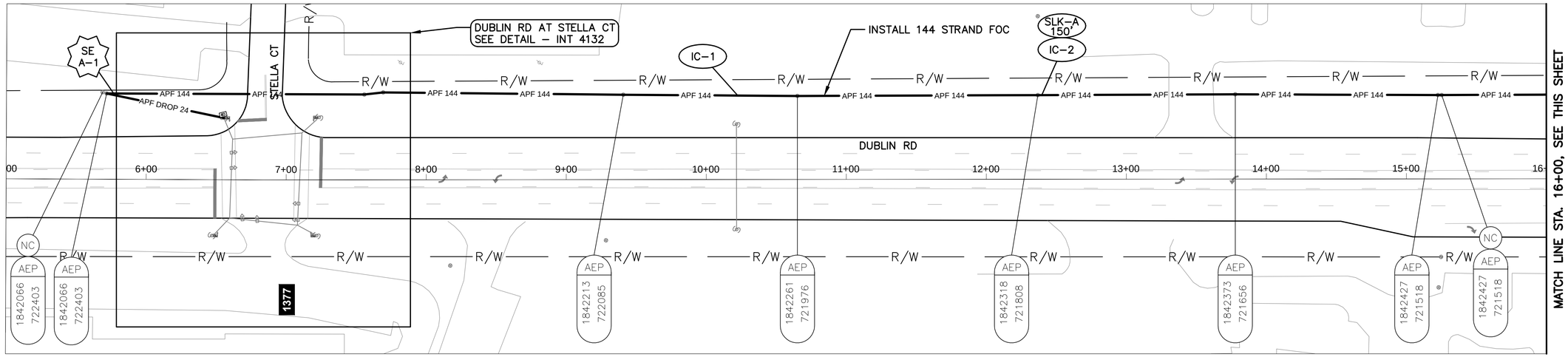
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PID NUMBER: 14522

GRANDVIEW AVE. BTW STA. 0+00 AND 31+50
INTS 4130, 4129

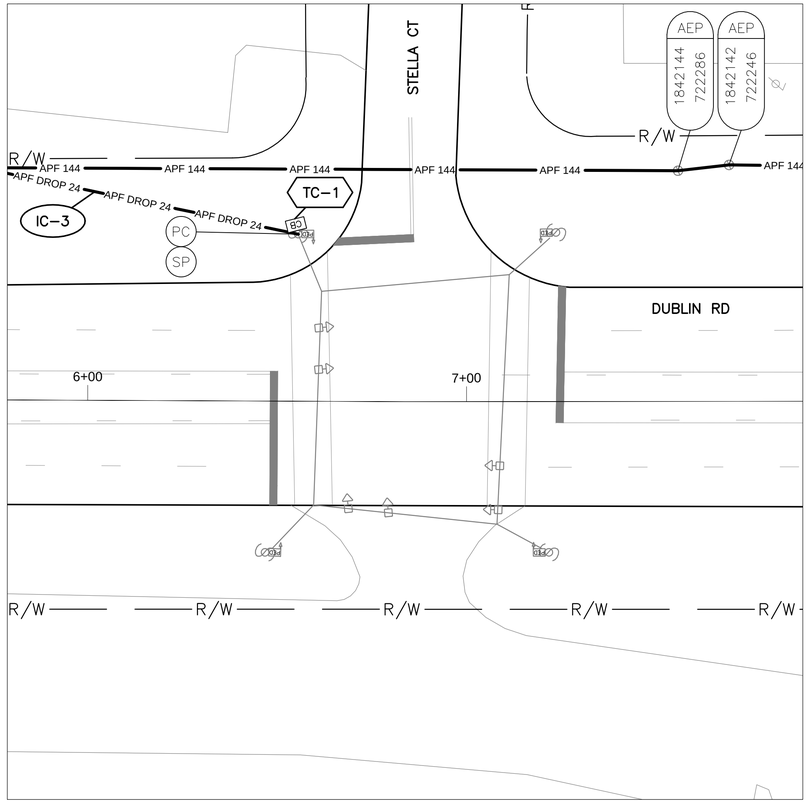
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

229
911

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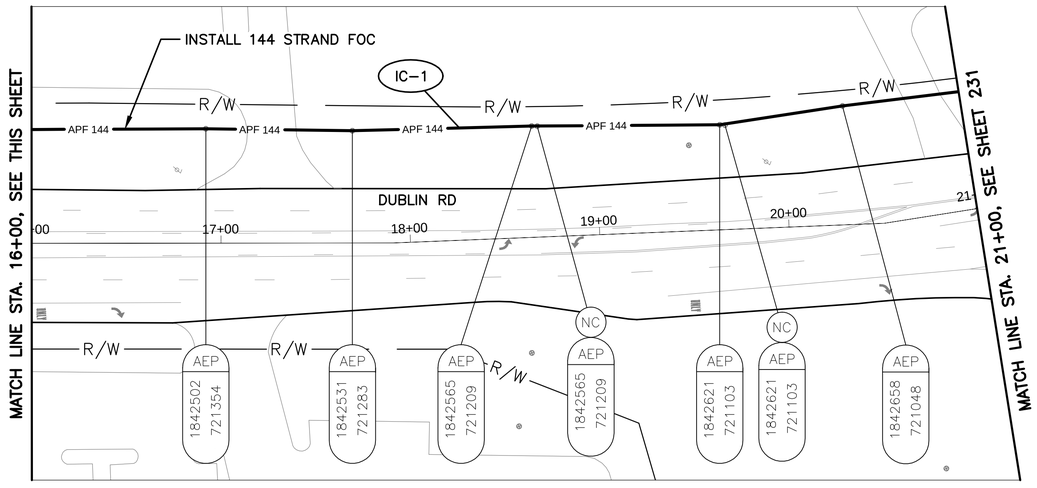
DUBLIN RD BETWEEN STATION 5+00 AND 16+00



DETAIL - INT 4132

0 20 40

HORIZONTAL SCALE IN FEET



DUBLIN RD BETWEEN STATION 16+00 AND 21+00

NOTES:

1. SEE SHEET 236 FOR QUANTITIES.
2. SEE SHEETS 601 & 696 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

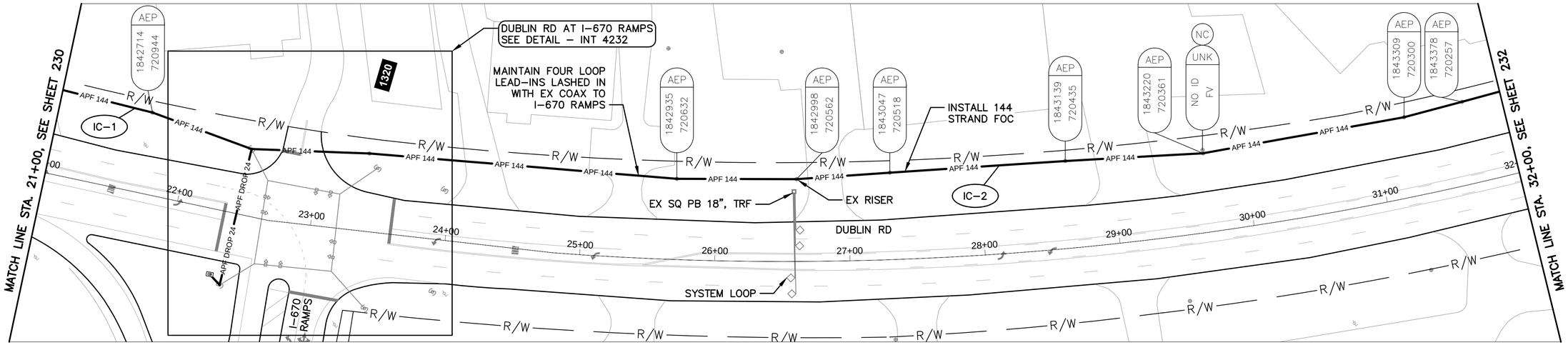
INTERCONNECT PLAN
DUBLIN RD BETWEEN STA. 5+00 AND 21+00, INT 4132

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

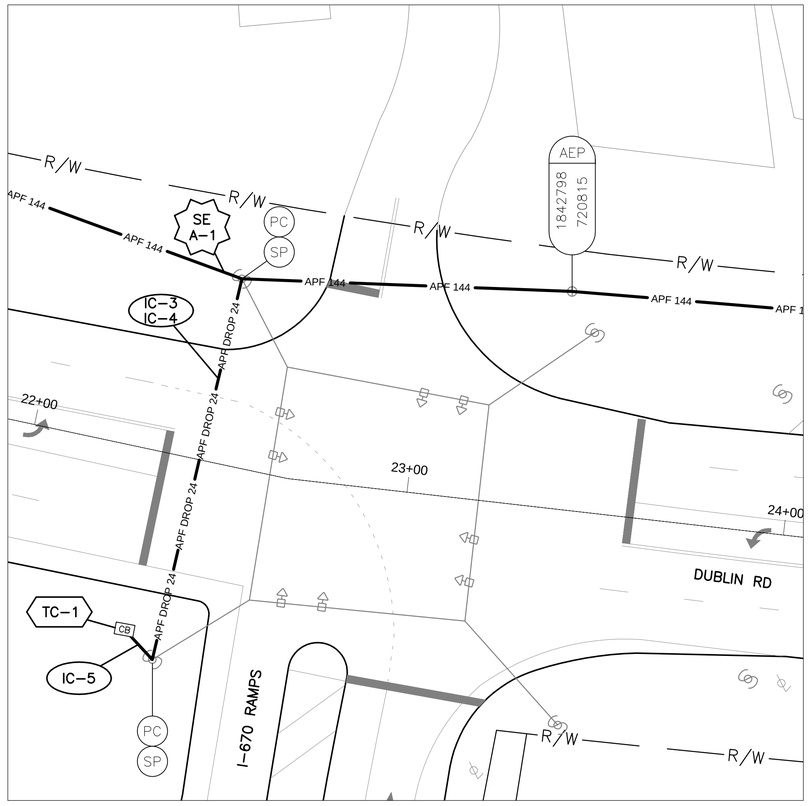
230
911

2953-E

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DUBLIN RD BETWEEN STATION 21+00 AND 32+00



DETAIL - INT 4232

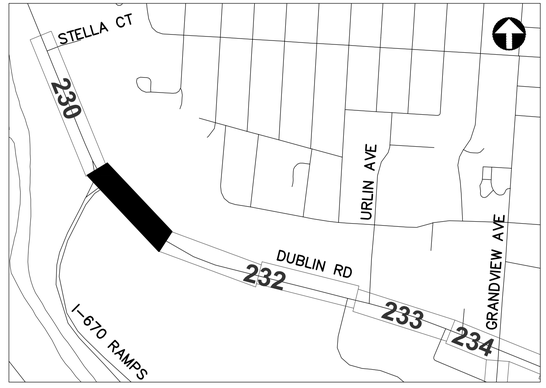
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 236 FOR QUANTITIES.
2. SEE SHEETS 601 & 695 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

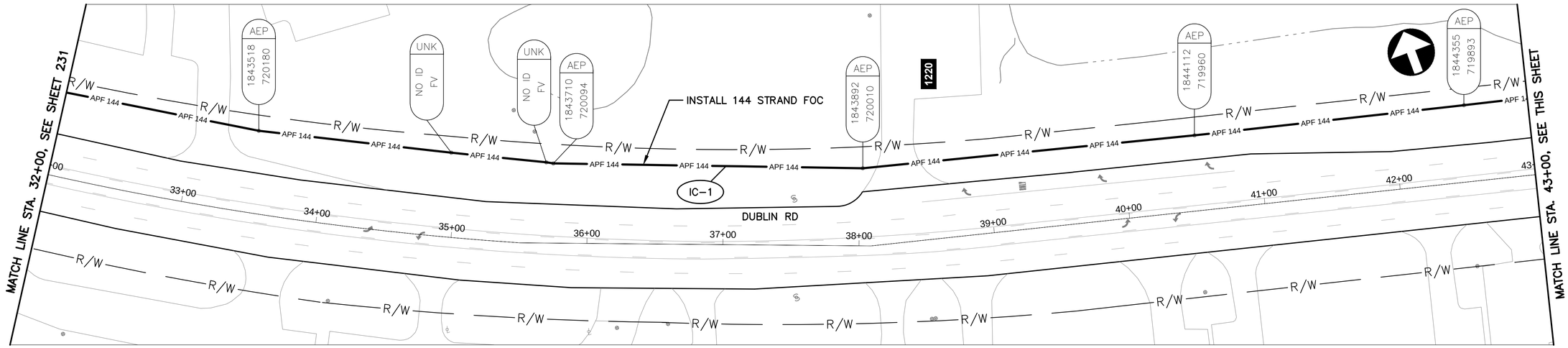
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
DUBLIN RD BETWEEN STA. 21+00 AND 32+00, INT 4232

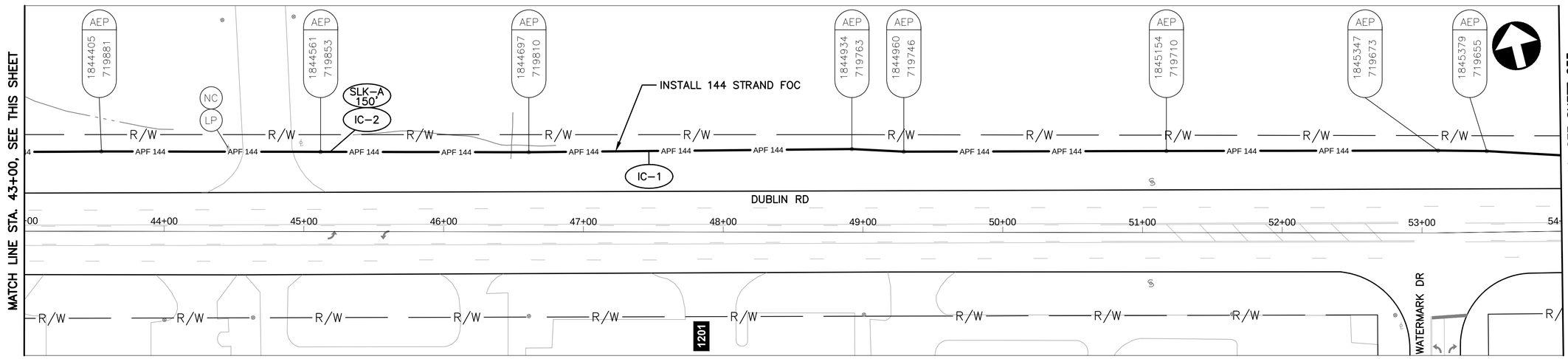
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

231
911

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DUBLIN RD BETWEEN STATION 32+00 AND 43+00



DUBLIN RD BETWEEN STATION 43+00 AND 54+00

NOTES:

1. SEE SHEET 236 FOR QUANTITIES.
2. SEE SHEET 601 FOR COMMUNICATION DETAILS.



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

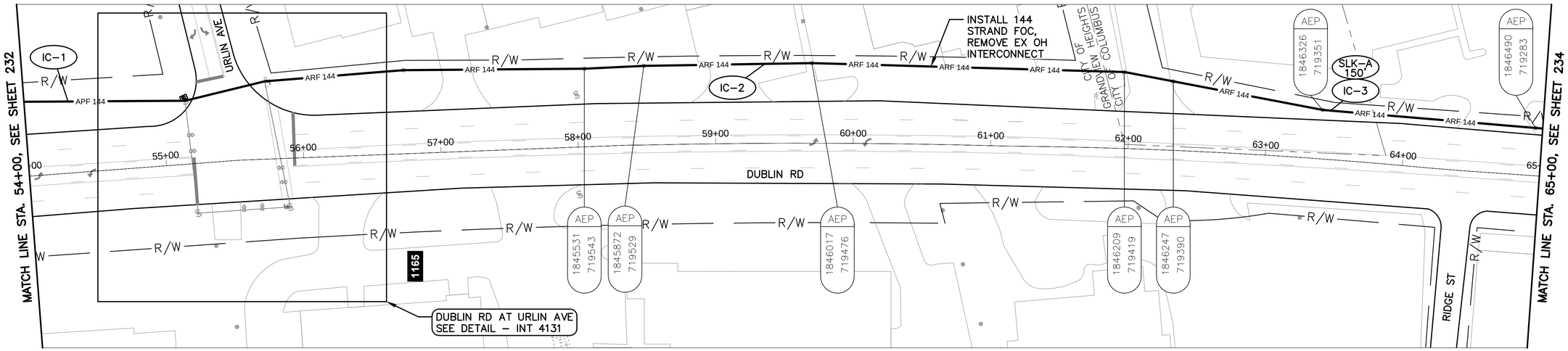
INTERCONNECT PLAN
DUBLIN RD BETWEEN STA. 32+00 AND 54+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

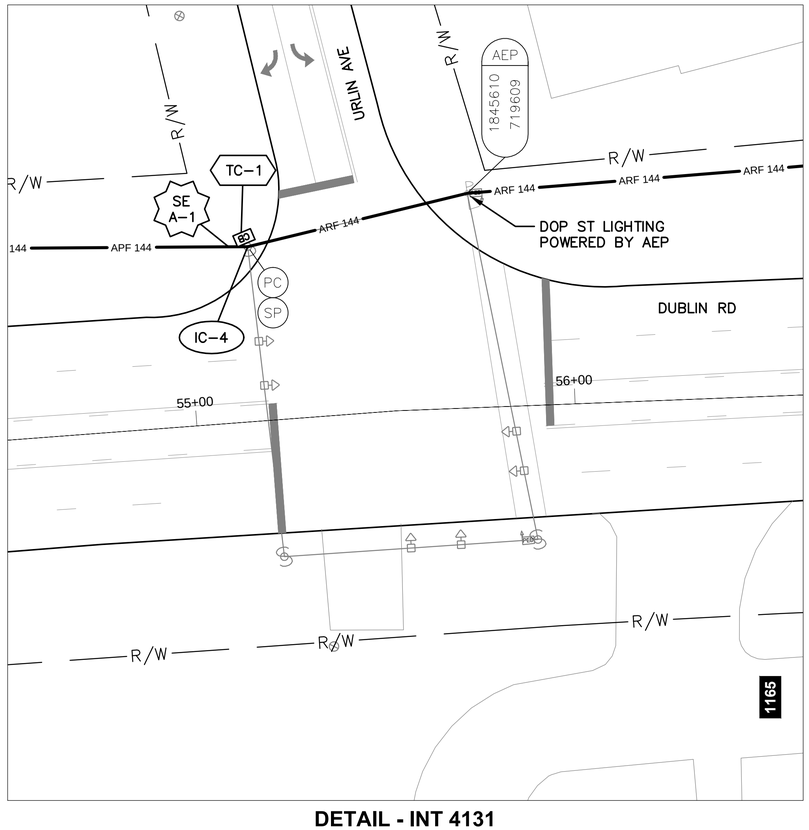
232
911

2953-E

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DUBLIN RD BETWEEN STATION 54+00 AND 65+00



DETAIL - INT 4131

0 20 40

HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 236 FOR QUANTITIES.
2. SEE SHEETS 601 & 694 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

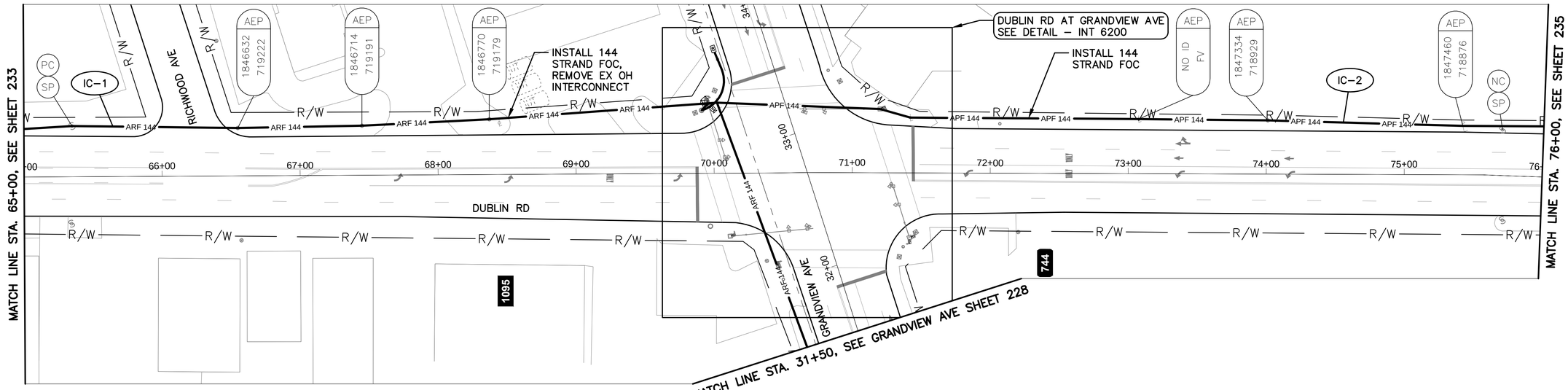
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
DUBLIN RD BETWEEN STA. 54+00 AND 65+00, INT 4131

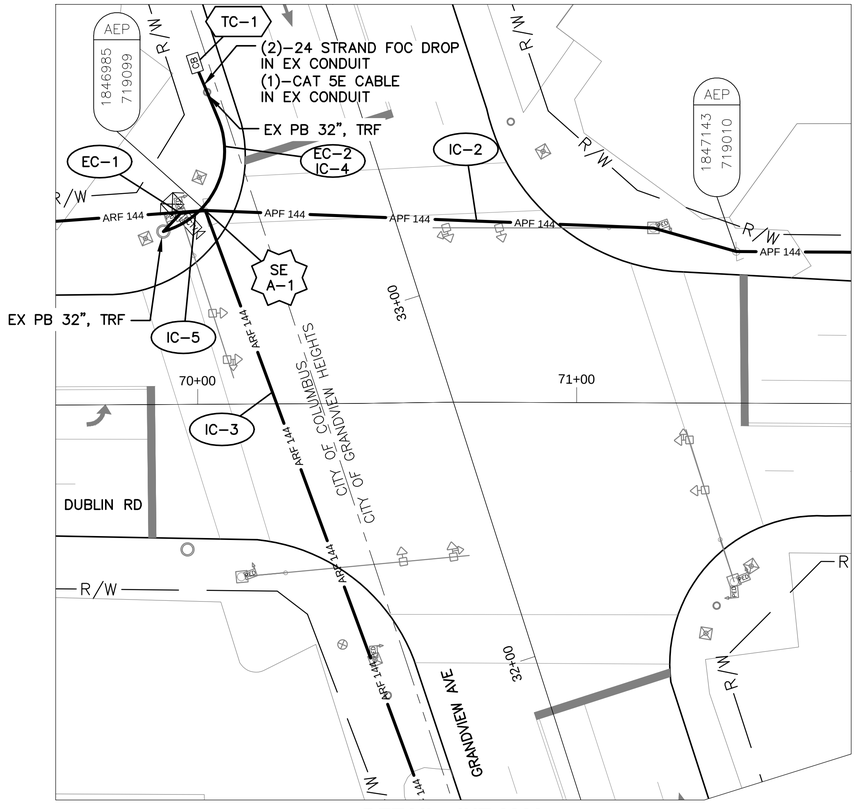
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

233
911

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DUBLIN RD BETWEEN STATION 65+00 AND 76+00



DETAIL - INT 6200

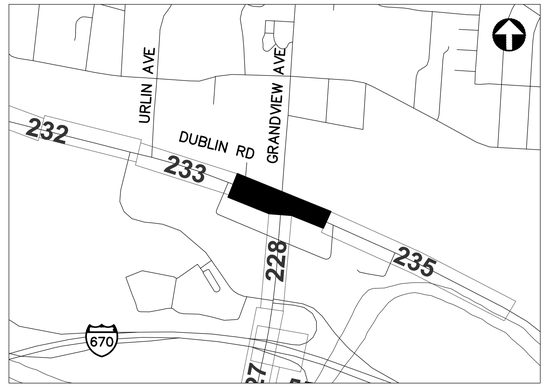
NOTES:

1. SEE SHEET 236 FOR QUANTITIES.
2. SEE SHEETS 601 & 693 FOR COMMUNICATION DETAILS.
3. FOR THE SPLICE ENCLOSURE AT INT 1046, PROVIDE 75' OF SLACK FROM ALL THREE DIRECTIONS FOR THE 225' TOTAL.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- [X] SEWER
- [X] WATER
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

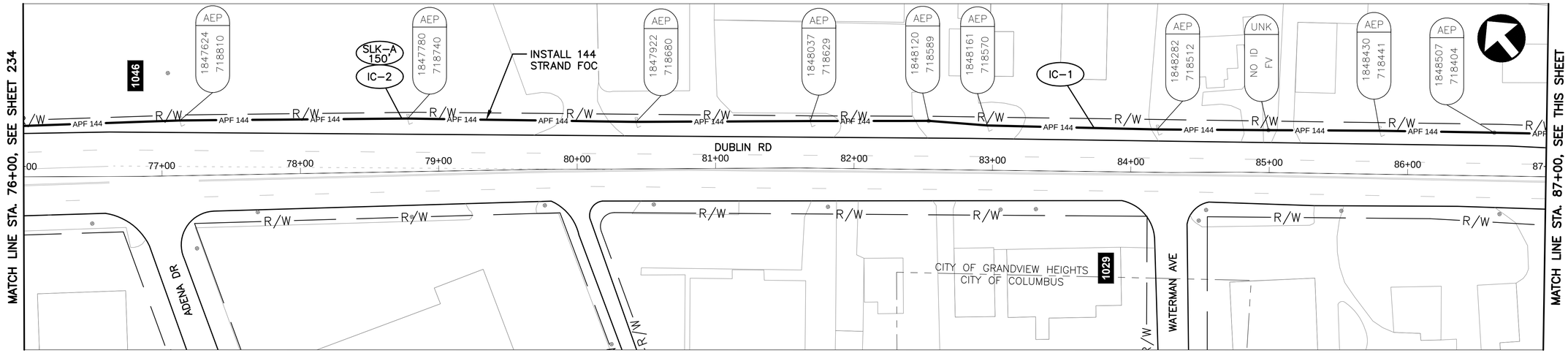
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
DUBLIN RD BETWEEN STA. 65+00 AND 76+00, INT 6200

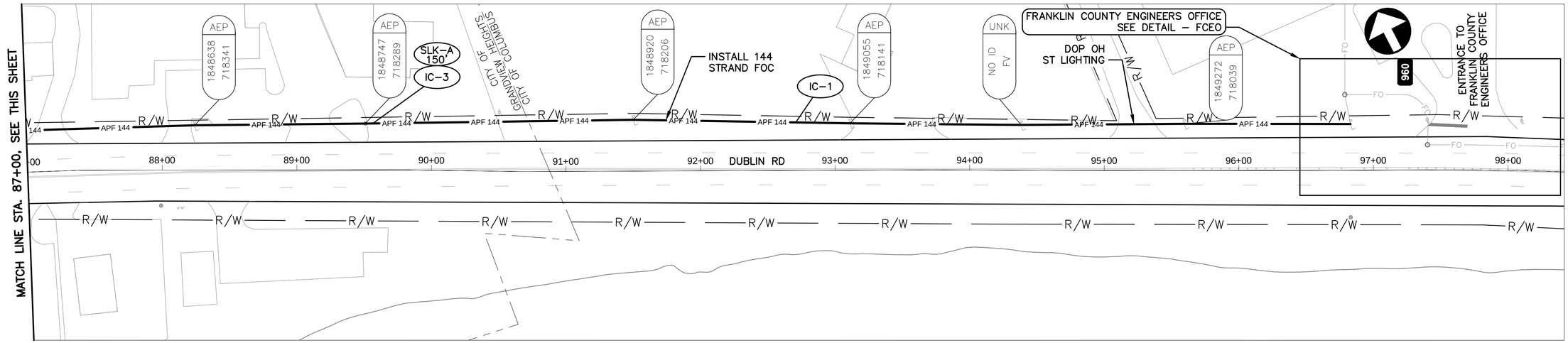
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

234
911

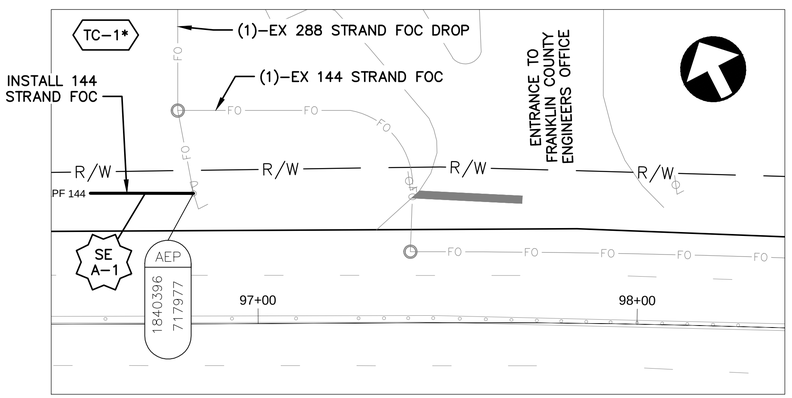
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DUBLIN RD BETWEEN STATION 76+00 AND 87+00



DUBLIN RD BETWEEN STATION 87+00 AND 98+50



DETAIL - FCEO

0 20 40
HORIZONTAL SCALE IN FEET

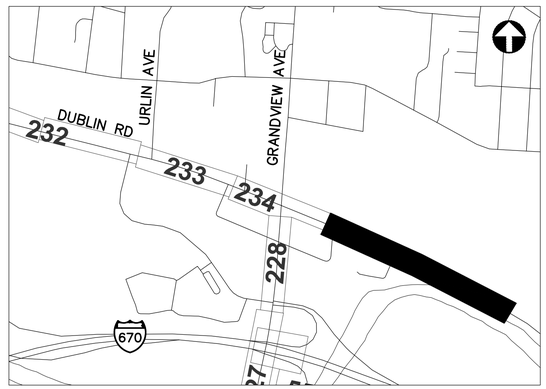
NOTES:

1. SEE SHEET 236 FOR QUANTITIES.
2. SEE SHEETS 47, 601, 896 & 897 FOR COMMUNICATION DETAILS.
3. TC–1* IS LOCATED INSIDE THE FRANKLIN COUNTY ENGINEERS OFFICE.
4. SPLICE 144 FIBER INTO EXISTING AERIAL ENCLOSURE, TERMINATE FINAL 144 STRAND FOC IN SERVER ROOM.
5. RESOLUTION NUMBER 0509–14 PASSED ON JULY 23, 2014 GRANTING CONSENT FOR THE COOPERATION OF FRANKLIN COUNTY AND THE CITY OF COLUMBUS TO COMPLETE WORK RELATED TO THE CTSS PHASE PROJECTS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
DUBLIN RD BETWEEN STA. 76+00 AND 98+50

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

235
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	632	632	633	633	633	633	633						
					EXISTING CONDUIT CLEANED, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	SIGNALIZATION, MISC.: CAT 5E CABLE, OUTDOOR RATED	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN						
			FROM	TO	FT	FT	FT	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH						
DUBLIN RD. BETWEEN STA. 5+00 AND 21+00, INT 4132																								
230	SE A-1	DUBLIN RD	5+71, 61' LT			75		1																
230	IC-3	DUBLIN RD	5+71, 61' LT	6+55, 44' LT							1	87												
230	IC-1	DUBLIN RD	5+71, 61' LT	21+00, 62' LT		1542						1542												
230	TC-1	DUBLIN RD	6+55, 44' LT											2		1	1							
230	IC-2	DUBLIN RD	12+39, 60' LT			150																		
DUBLIN RD. BETWEEN STA. 21+00 AND 32+00, INT 4232																								
231	IC-1	DUBLIN RD	21+00, 62' LT	22+45, 49' LT		148						148												
231	TC-1	DUBLIN RD	22+34, 48' RT											2		1	1							
231	IC-5	DUBLIN RD	22+34, 48' RT	22+43, 54' RT	11																			
231	IC-4	DUBLIN RD	22+34, 48' RT	22+45, 49' LT							1													
231	IC-3	DUBLIN RD	22+43, 54' RT	22+45, 49' LT								105												
231	SE A-1	DUBLIN RD	22+45, 49' LT			150		1																
231	IC-2	DUBLIN RD	22+45, 49' LT	32+00, 62' LT		943						943												
DUBLIN RD. BETWEEN STA. 32+00 AND 54+00																								
232	IC-1	DUBLIN RD	32+00, 62' LT	54+00, 54' LT		2213						2213												
232	IC-2	DUBLIN RD	45+18, 57' LT			150																		
DUBLIN RD. BETWEEN STA. 54+00 AND 65+00, INT 4131																								
233	IC-1	DUBLIN RD	54+00, 54' LT	55+16, 46' LT		119						119												
233	SE A-1	DUBLIN RD	55+16, 46' LT			150		1																
233	IC-4	DUBLIN RD	55+16, 46' LT	55+16, 46' LT						1														
233	TC-1	DUBLIN RD	55+16, 46' LT											2		1		1						
233	IC-2	DUBLIN RD	55+16, 46' LT	65+00, 35' LT		1008	993					1008												
233	IC-3	DUBLIN RD	63+44, 36' LT			150																		
DUBLIN RD. BETWEEN STA. 65+00 AND 76+00, INT 6200																								
234	IC-1	DUBLIN RD	65+00, 35' LT	70+02, 51' LT		511	503					511												
234	EC-1	DUBLIN RD	69+95, 50' LT										45											
234	EC-2	DUBLIN RD	69+95, 50' LT	69+99, 90' LT	59								59											
234	IC-5	DUBLIN RD	69+95, 50' LT	70+02, 51' LT								7												
234	IC-4	DUBLIN RD	69+99, 90' LT	70+02, 51' LT							2													
234	TC-1	DUBLIN RD	69+99, 90' LT										10	4	1	1								
234	SE A-1	DUBLIN RD	70+02, 51' LT			225			1															
234	IC-2	DUBLIN RD	70+02, 51' LT	76+00, 37' LT		608						608												
234	IC-3	DUBLIN RD	70+02, 51' LT	70+65, 127' RT		192	189					192												
DUBLIN RD. BETWEEN STA. 76+00 AND 98+50, INT FCEO																								
235	IC-1	DUBLIN RD	76+00, 37' LT	96+83, 34' LT		2116						2116												
235	IC-2	DUBLIN RD	78+73, 38' LT			150																		
235	IC-3	DUBLIN RD	89+56, 35' LT			150																		
235	SE A-1	DUBLIN RD	96+83, 34' LT			75																		
235	TC-1	DUBLIN RD	IN BUILDING											2										
SHEET TOTAL					70	10825	1685	3	1	1	4	9599	114	12	1	4	2	1	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

2953-E

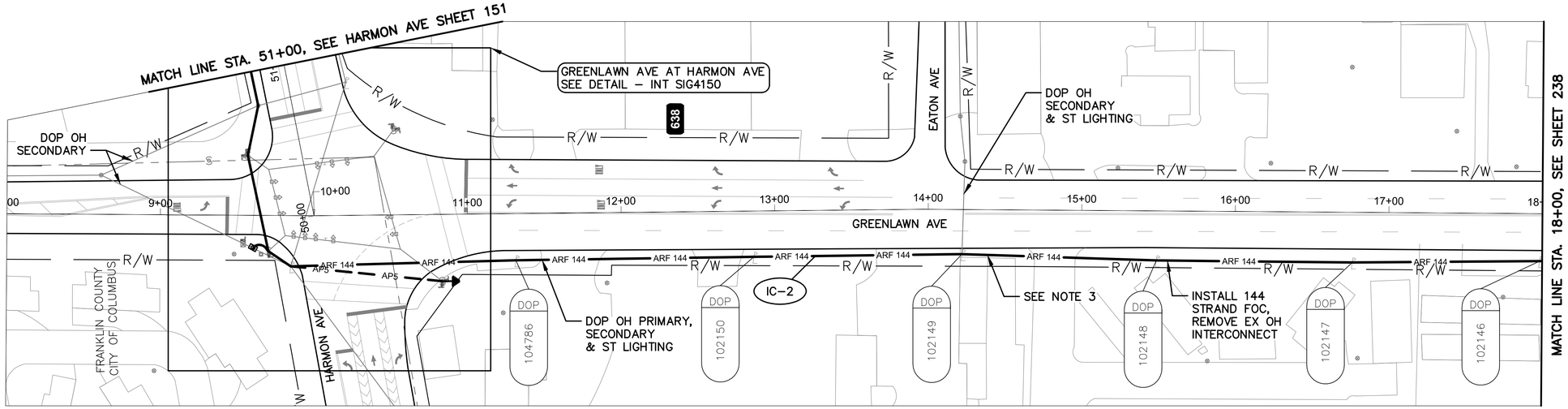
CIP: 540007–100005
PID NUMBER: 14522

DUBLIN RD. BTW STA. 5+00 AND 98+50
INTS 4132, 4232, 4131, 6200, FCEO

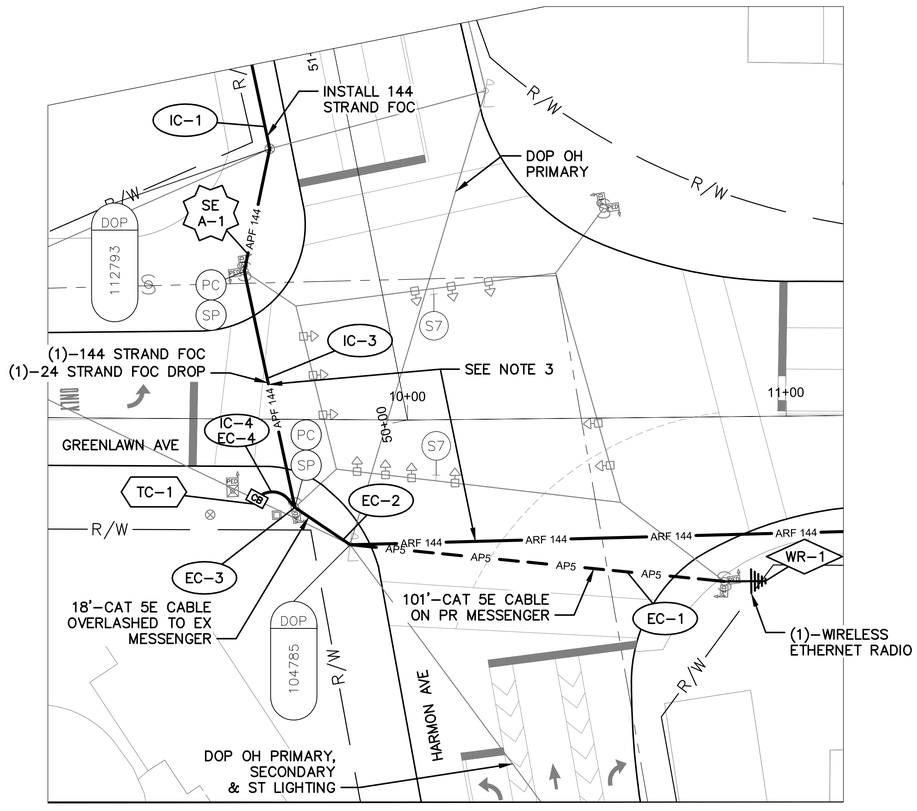
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

236
911

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GREENLAWN AVE BETWEEN STATION 8+00 AND 18+00



DETAIL - INT SIG4150

0 20 40
HORIZONTAL
SCALE IN FEET

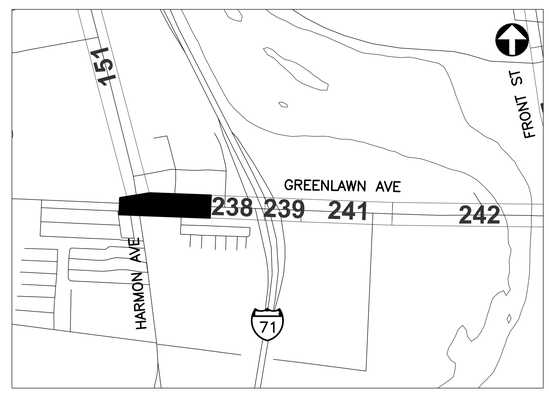
NOTES:

1. SEE SHEET 240 FOR QUANTITIES.
2. SEE SHEETS 607 & 722 FOR COMMUNICATION DETAILS.
3. 144 STRAND FOC EAST OF STA (SE A–1) TO BE INSTALLED AFTER THE COMPLETION OF PID#93497 (FRA–71–9–74) PROJECT.
4. CTSS CONTRACTOR TO COORDINATE W/ PID#93497 (FRA–71–9–74) PROJECT REGARDING INTERSECTION RECONFIGURATION.

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REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

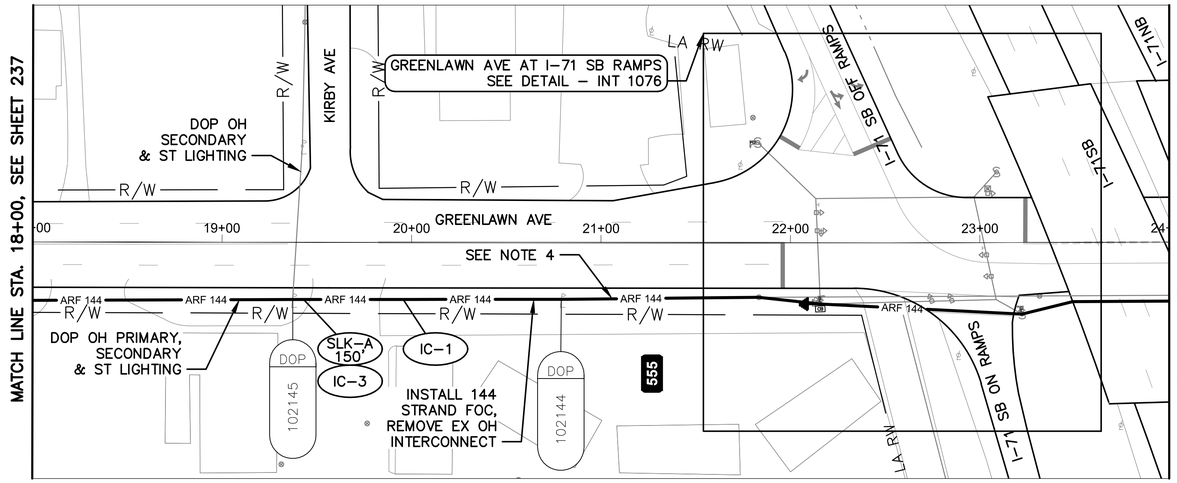
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
GREENLAWN AVE BETWEEN STA. 8+00 AND 18+00, INTSIG4150

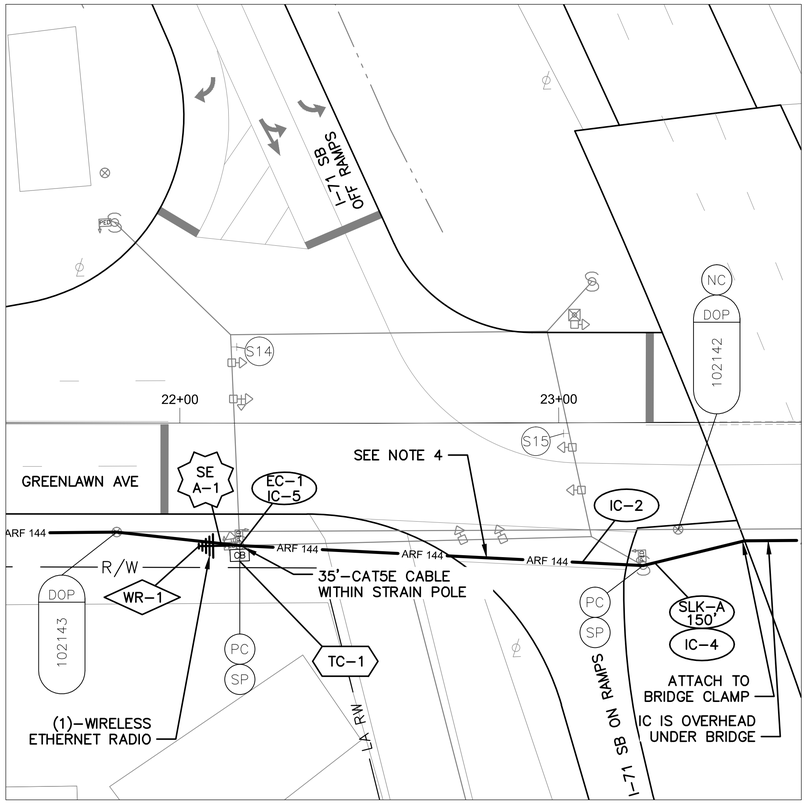
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

237
911

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GREENLAWN AVE BETWEEN STATION 18+00 AND 24+00



DETAIL - INT 1076

0 20 40
HORIZONTAL SCALE IN FEET

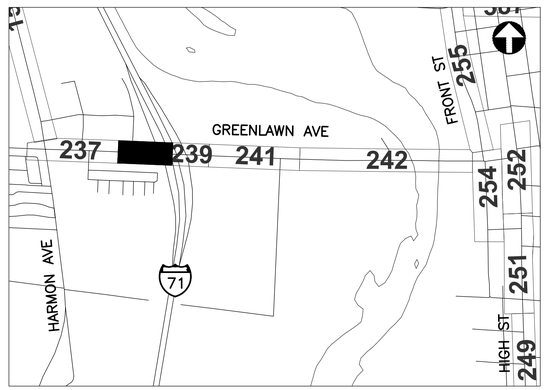
NOTES:

1. SEE SHEET 240 FOR QUANTITIES.
2. SEE SHEETS 607 & 723 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.
4. 144 STRAND FOC, DROP CABLE, AND SPLICE ENCLOSURE TO BE INSTALLED AFTER THE COMPLETION OF PID #93497 (FRA-71-9-74) PROJECT.
5. CTSS CONTRACTOR TO COORDINATE WITH PID#93497 (FRA-71-9-74) REGARDING INTERSECTION RECONFIGURATION.

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- ☒ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

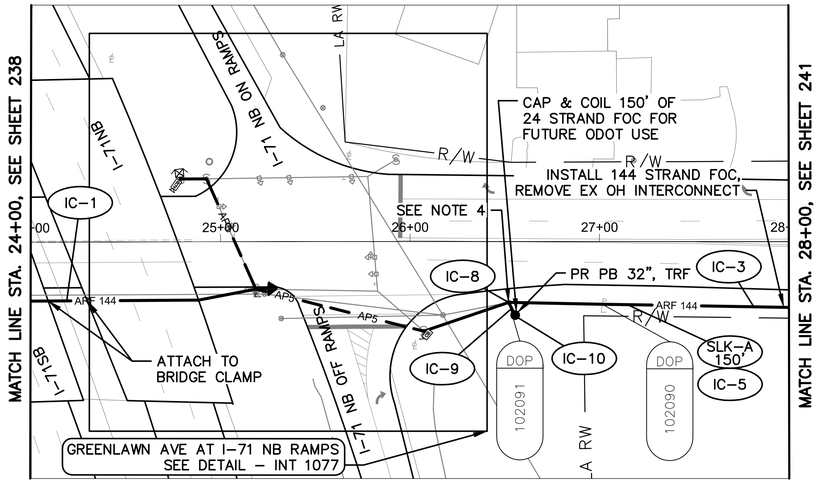
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
GREENLAWN AVE BETWEEN STA. 18+00 AND 24+00, INTS 1076

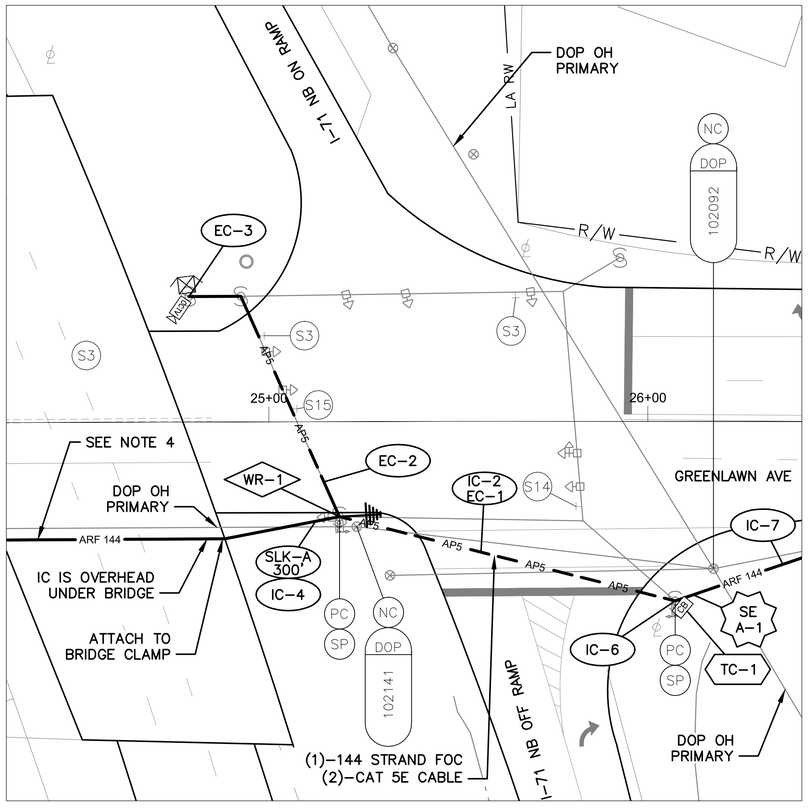
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

238
911

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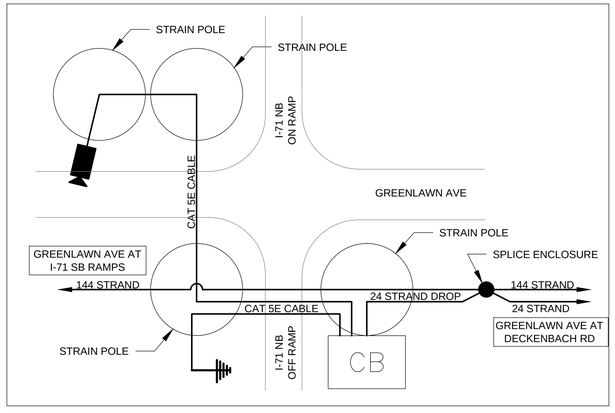
GREENLAWN AVE BETWEEN STATION 24+00 AND 28+00



DETAIL - INT 1077

0 20 40

HORIZONTAL SCALE IN FEET



CABLE SCHEMATIC
NOT TO SCALE

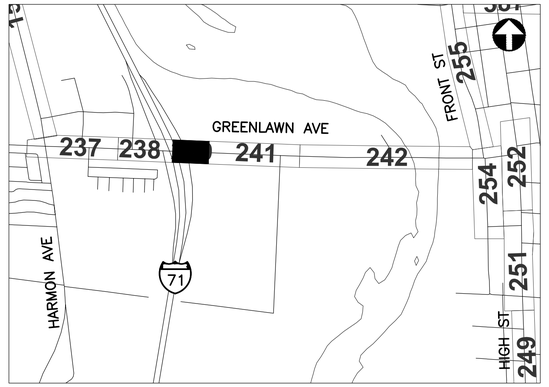
NOTES:

1. SEE SHEET 240 FOR QUANTITIES.
2. SEE SHEETS 607 & 724 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.
4. 144 STRAND FOC, DROP CABLE, AND SPLICE ENCLOSURE TO BE INSTALLED AFTER THE COMPLETION OF PID #93497 (FRA–71–6–74), PROJECT.
5. CTSS CONTRACTOR TO COORDINATE WITH PID #93497 (FRA–71–9–74) PROJECT, REGARDING INTERSECTION RECONFIGURATION.

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REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
GREENLAWN AVE BETWEEN STA. 24+00 AND 28+00, INT 1077

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

239
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	632	632	632	632	632	632	632	632	632	633	633	633	633	633
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, 2", AS PER PLAN	PULL BOX, 32", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT RISER, 3", 725.04, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	SIGNALIZATION, MISC.: AERIAL CLAMP, ATTACHED TO BRIDGE	SIGNALIZATION, MISC.: CAT 5E CABLE, OUTDOOR RATED	CABINET, GROUND MOUNTED, TYPE TS-2, AS PER PLAN	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: SPREAD SPECTRUM RADIO	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER
			FROM	TO	FT	FT	EACH	FT	EACH	FT	FT	FT	FT	EACH	EACH	EACH	FT	EACH	FT	EACH	EACH	EACH	EACH	EACH
GREENLAWN AVE. BETWEEN STA. 8+00 AND 18+00, INT SIG4150																								
237	SE A-1	GREENLAWN AVE	9+56, 39' LT							150				1										
237	IC-3	GREENLAWN AVE	9+56, 39' LT	9+60, 21' RT												1								
237	IC-1	GREENLAWN AVE	9+58, 94' LT	9+70, 23' RT						121							121							
237	TC-1	GREENLAWN AVE	9+60, 21' RT																10	1	2	1		1
237	IC-4	GREENLAWN AVE	9+60, 21' RT	9+70, 23' RT	12								12											
237	EC-4	GREENLAWN AVE	9+60, 21' RT	9+70, 23' RT															12					
237	IC-2	GREENLAWN AVE	9+70, 23' RT	18+00, 31' RT						845		833					845							
237	EC-3	GREENLAWN AVE	9+70, 23' RT																35					
237	EC-2	GREENLAWN AVE	9+70, 23' RT	9+85, 33' RT															18					
237	EC-1	GREENLAWN AVE	9+85, 33' RT	10+83, 43' RT													101		101					
237	WR-1	GREENLAWN AVE	10+83, 43' RT																				1	
GREENLAWN AVE. BETWEEN STA. 18+00 AND 24+00, INT 1076																								
238	IC-1	GREENLAWN AVE	18+00, 31' RT	22+15, 32' RT						422		416					422							
238	IC-3	GREENLAWN AVE	19+42, 30' RT							150														
238	SE A-1	GREENLAWN AVE	22+15, 32' RT							150				1										
238	IC-5	GREENLAWN AVE	22+15, 32' RT	22+15, 32' RT												1								
238	TC-1	GREENLAWN AVE	22+15, 32' RT																10	2	1			1
238	IC-2	GREENLAWN AVE	22+15, 32' RT	24+00, 31' RT						187		184					187	1						
238	EC-1	GREENLAWN AVE	22+15, 32' RT																35					
238	WR-1	GREENLAWN AVE	22+15, 32' RT																				1	
238	IC-4	GREENLAWN AVE	23+25, 37' RT							150														
GREENLAWN AVE. BETWEEN STA. 24+00 AND 28+00, INT 1077																								
239	IC-1	GREENLAWN AVE	24+00, 31' RT	25+18, 25' RT						122		120					122	3						
239	EC-3	GREENLAWN AVE	24+78, 33' LT																45					
239	EC-2	GREENLAWN AVE	24+78, 33' LT	25+18, 25' RT													81		81					
239	IC-4	GREENLAWN AVE	25+12, 26' RT							150														
239	IC-2	GREENLAWN AVE	25+18, 25' RT	26+07, 47' RT						91														
239	EC-1	GREENLAWN AVE	25+18, 25' RT	26+07, 47' RT													91		182					
239	WR-1	GREENLAWN AVE	25+18, 25' RT																				1	
239	SE A-1	GREENLAWN AVE	26+07, 47' RT							150				1										
239	IC-6	GREENLAWN AVE	26+07, 47' RT	26+07, 47' RT												1								
239	TC-1	GREENLAWN AVE	26+07, 47' RT																55		2	1		1
239	IC-3	GREENLAWN AVE	26+07, 47' RT	28+00, 35' RT						198		195					198	1						
239	IC-7	GREENLAWN AVE	26+07, 47' RT	26+53, 32' RT							47													
239	IC-8	GREENLAWN AVE	26+53, 32' RT						1		35													
239	IC-9	GREENLAWN AVE	26+53, 32' RT	26+57, 39' RT		7		7			7													
239	IC-10	GREENLAWN AVE	26+57, 39' RT				1				150													
239	IC-5	GREENLAWN AVE	27+15, 33' RT							150														
SHEET TOTAL					12	7	1	7	1	3036	239	1748	12	3	2	1	2168	4	584	1	6	3	3	3

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

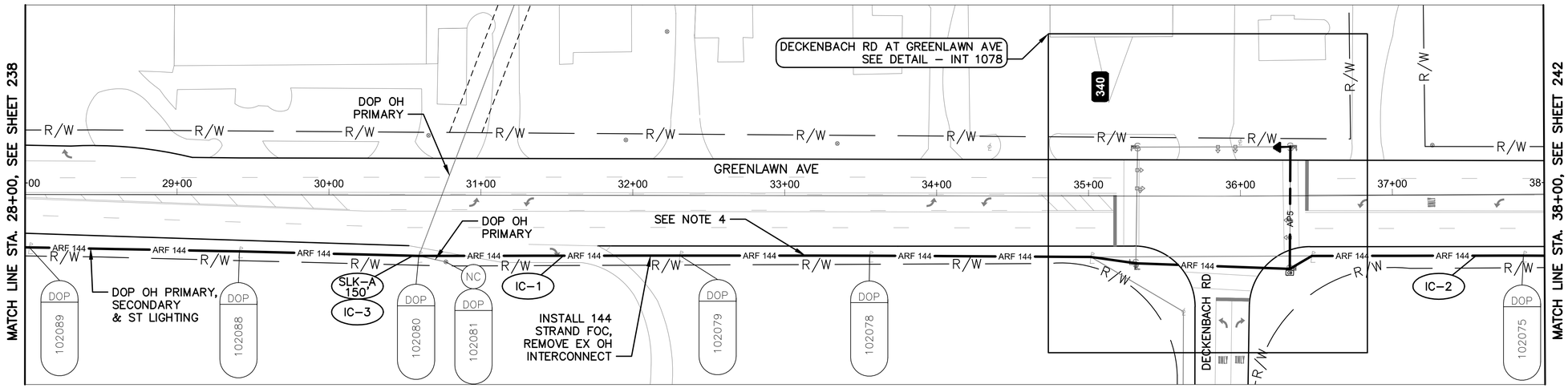
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PID NUMBER: 14522

GREENLAWN AVE. BTW STA. 8+00 AND 28+00
INTS SIG4150, 1076, 1077

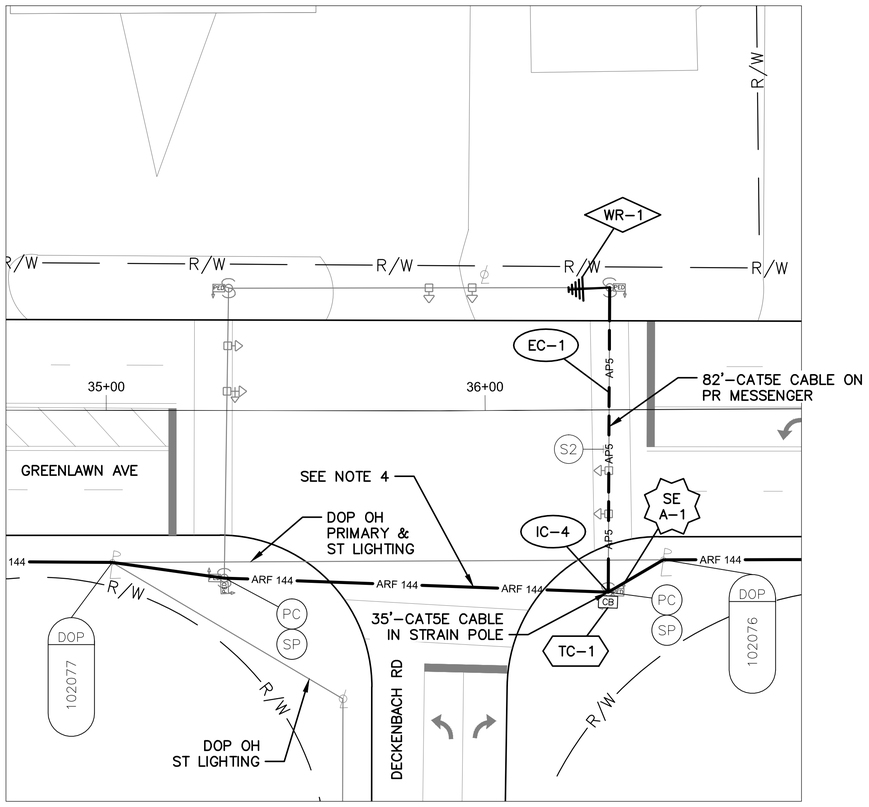
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

240
911

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GREENLAWN AVE BETWEEN STATION 28+00 AND 38+00



DETAIL - INT 1078

0 20 40
HORIZONTAL SCALE IN FEET

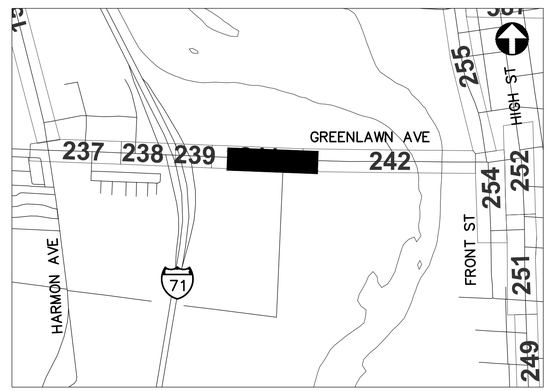
NOTES:

1. SEE SHEET 243 FOR QUANTITIES.
2. SEE SHEETS 607 & 725 FOR COMMUNICATION DETAILS.
3. AN ADDITIONAL 150' SLACK IS TO BE PROVIDED AT INT 1078 FOR FUTURE DoT USE.
4. 144 STRAIN FOC WEST OF STA (SE A–1) TO BE INSTALLED AFTER THE COMPLETION OF PID #93497 (FRA–71–9–74) PROJECT.
5. CTSS CONTRACTOR TO COORDINATE WITH PID #93497 (FRA–71–9–74) PROJECT, REGARDING INTERSECTION RECONFIGURATION.

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- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

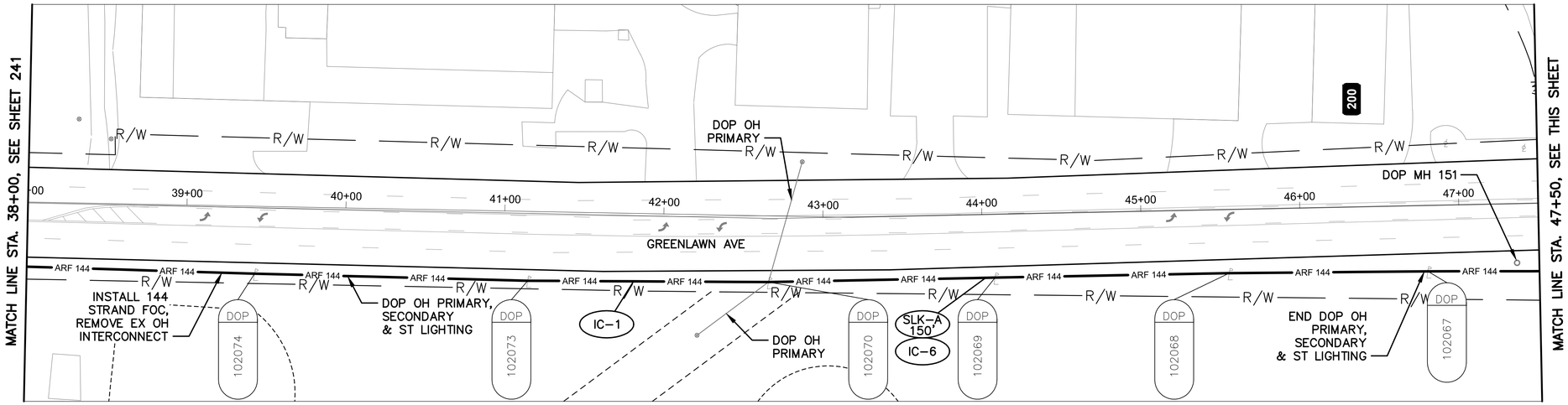
INTERCONNECT PLAN
GREENLAWN AVE BETWEEN STA. 28+00 AND 38+00, INT 1078

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

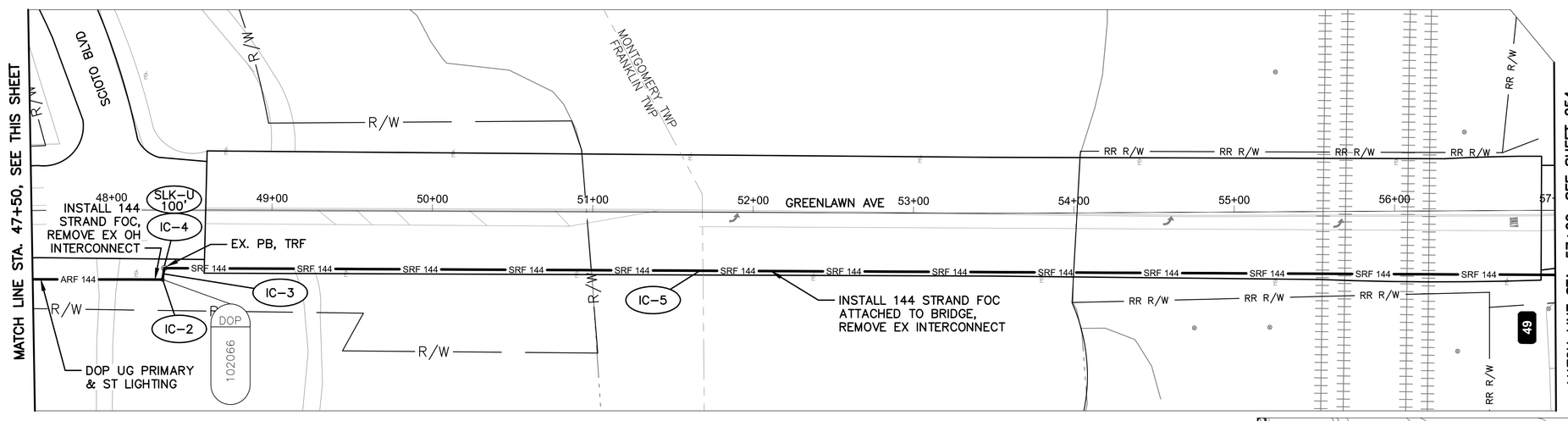
241
911

2953-E

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GREENLAWN AVE BETWEEN STATION 38+00 AND 47+50



GREENLAWN AVE BETWEEN STATION 47+50 AND 57+00

NOTES:

1. SEE SHEET 243 FOR QUANTITIES.
2. SEE SHEET 607 FOR COMMUNICATION DETAILS.
3. DOP PRIMARY & ST LIGHTING CABLES ARE PRESENT IN OR UNDER BRIDGE ON GREENLAWN AT 52+00. PROTECT FROM DAMAGE.

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- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
GREENLAWN AVE BETWEEN STA. 38+00 AND 57+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

242
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	632	633	633	633	633							
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT RISER, 3", 725.04, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	SIGNALIZATION, MISC.: CAT 5E CABLE, OUTDOOR RATED	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: SPREAD SPECTRUM RADIO	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER						
			FROM	TO	FT	EACH	FT	FT	FT	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH						
GREENLAWN AVE. BETWEEN STA. 28+00 AND 38+00, INT 1078																							
241	IC-1	GREENLAWN AVE	28+00, 35' RT	36+32, 48' RT			845	833				845											
241	IC-3	GREENLAWN AVE	30+55, 40' RT				150																
241	SE A-1	GREENLAWN AVE	36+32, 48' RT				300			1													
241	IC-4	GREENLAWN AVE	36+32, 48' RT	36+32, 48' RT							1												
241	TC-1	GREENLAWN AVE	36+32, 48' RT										45	2	1		1						
241	IC-2	GREENLAWN AVE	36+32, 48' RT	38+00, 41' RT			173	170				173											
241	EC-1	GREENLAWN AVE	36+32, 48' RT	36+33, 32' LT								82	82										
241	WR-1	GREENLAWN AVE	36+33, 32' LT													1							
GREENLAWN AVE. BETWEEN STA. 38+00 AND 57+00																							
242	IC-1	GREENLAWN AVE	38+00, 41' RT	48+31, 44' RT			1048	1033				1048											
242	IC-6	GREENLAWN AVE	44+01, 40' RT				150																
242	IC-2	GREENLAWN AVE	48+31, 44' RT			1	35																
242	IC-3	GREENLAWN AVE	48+31, 44' RT	48+32, 36' RT	7		7		7														
242	IC-4	GREENLAWN AVE	48+32, 36' RT				100																
242	IC-5	GREENLAWN AVE	48+32, 36' RT	57+00, 40' RT			867		867														
SHEET TOTAL					7	1	3675	2036	874	1	1	2148	127	2	1	1	1	-	-	-	-	-	-	-

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

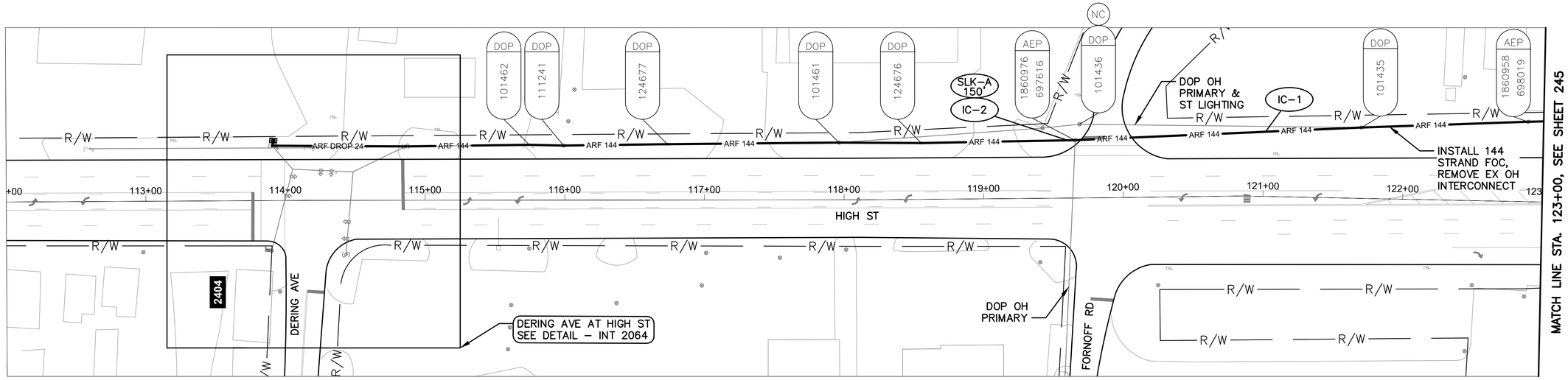
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PID NUMBER: 14522

GREENLAWN AVE. BTW STA. 28+00 AND 57+00
INT 1078

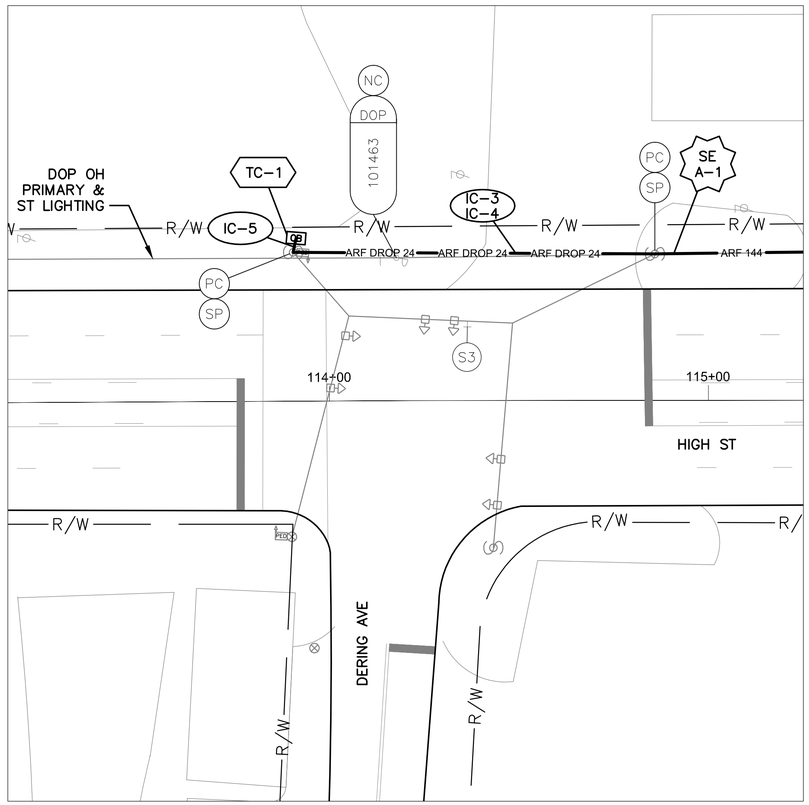
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

243
911

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HIGH ST BETWEEN STATION 112+00 AND 123+00



DETAIL - INT 2064

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 250 FOR QUANTITIES.
2. SEE SHEETS 610 & 804 FOR COMMUNICATION DETAILS.
3. AN ADDITIONAL 150' SLACK IS TO BE PROVIDED AT INT 2064 FOR FUTURE DoT USE.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

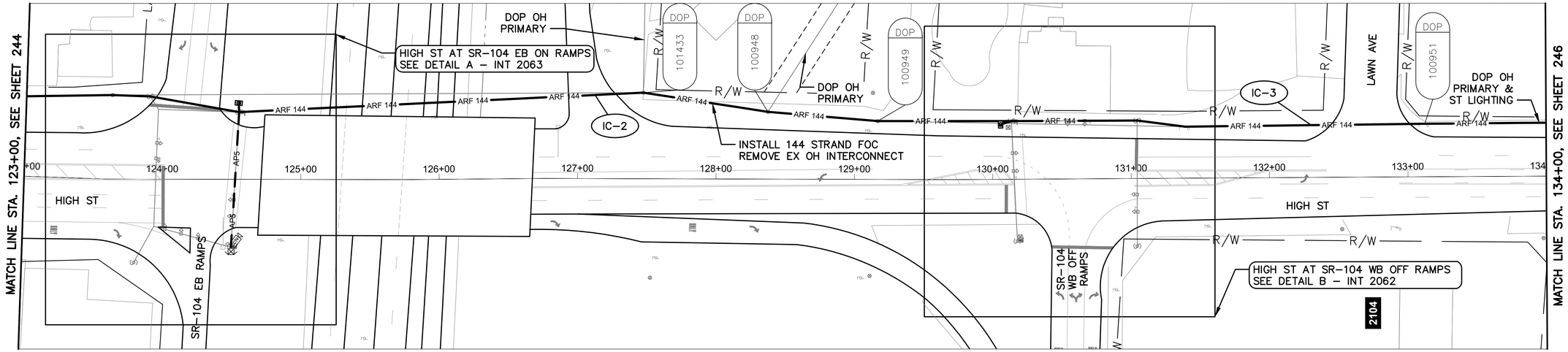
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
HIGH ST BETWEEN STA. 112+00 AND 123+00, INT 2064

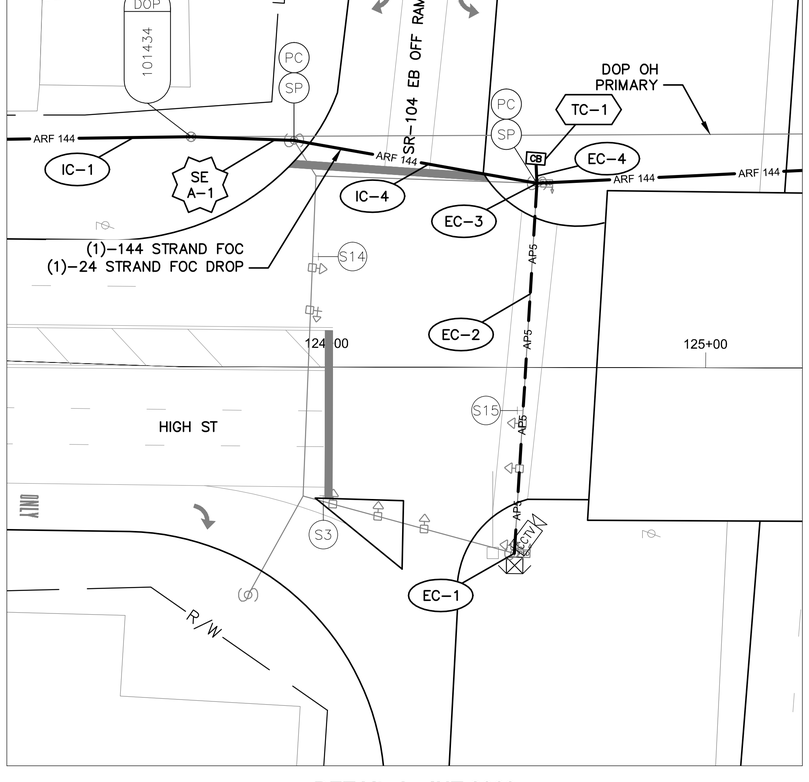
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c – CONSTRUCTION AS–BUILT

244
911

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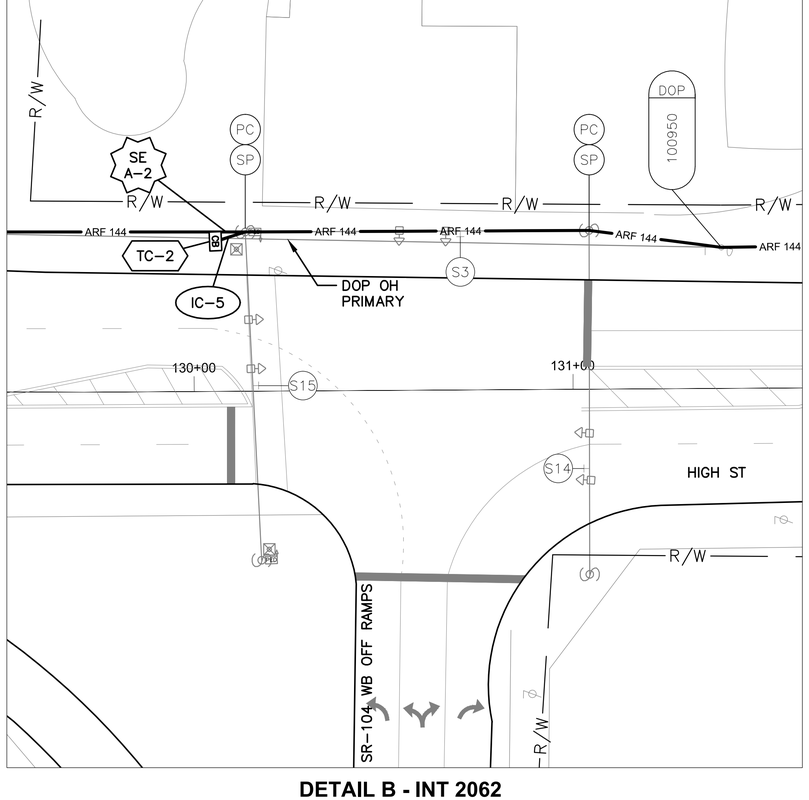


HIGH ST BETWEEN STATION 123+00 AND 134+00



DETAIL A - INT 2063

0 20 40
HORIZONTAL
SCALE IN FEET



DETAIL B - INT 2062

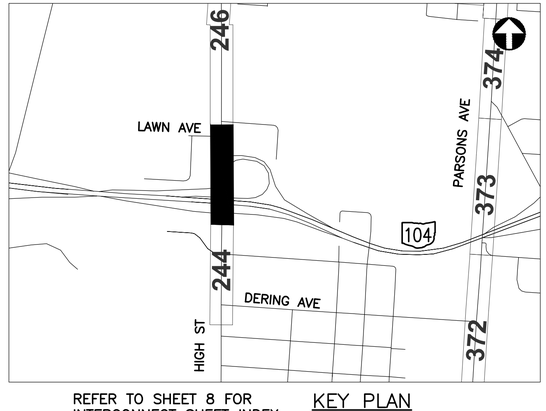
0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 250 FOR QUANTITIES.
2. SEE SHEETS 610, 805 & 806 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

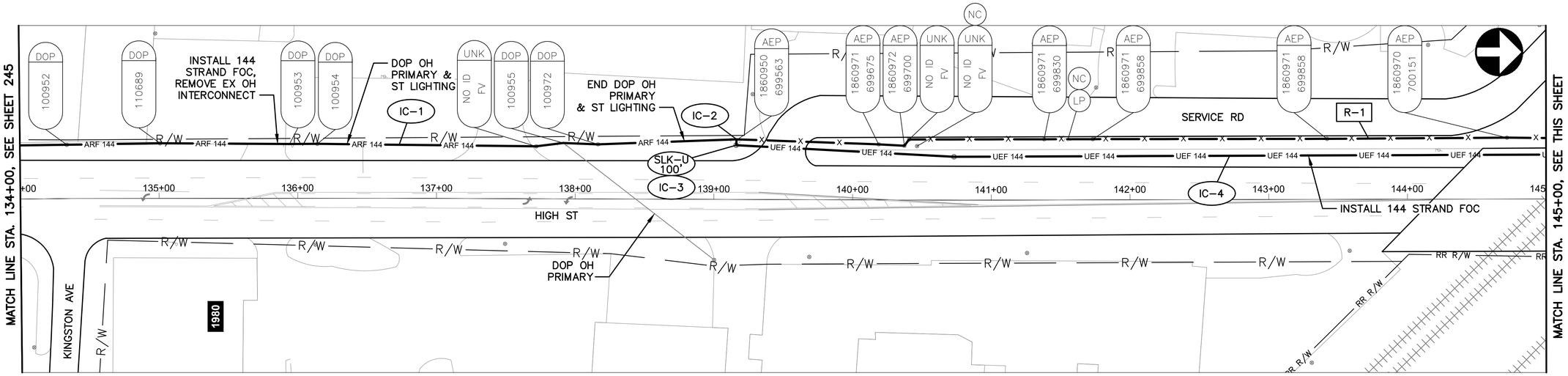
INTERCONNECT PLAN
HIGH ST BETWEEN STA. 123+00 AND 134+00, INTS 2063 & 2062

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

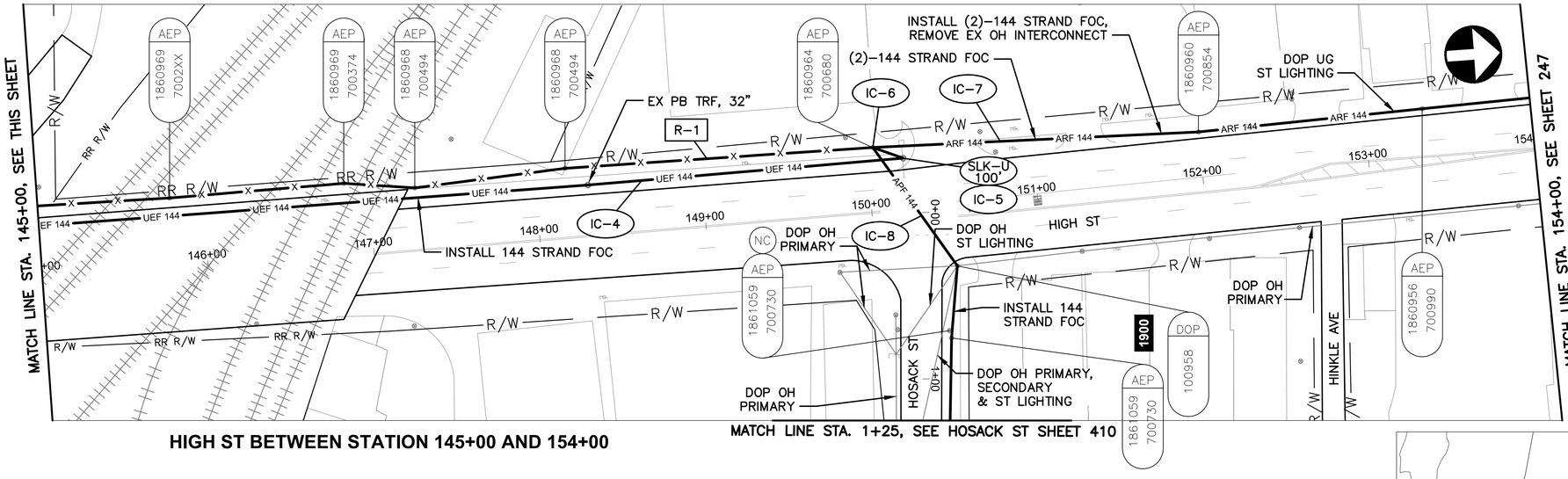
245
911

2953-E

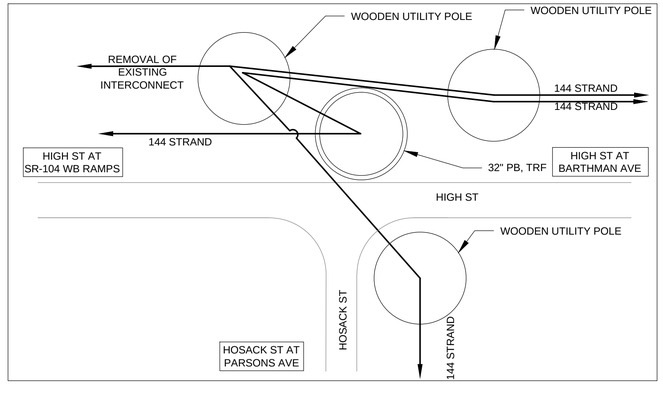
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HIGH ST BETWEEN STATION 134+00 AND 145+00



HIGH ST BETWEEN STATION 145+00 AND 154+00



CABLE SCHEMATIC
NOT TO SCALE

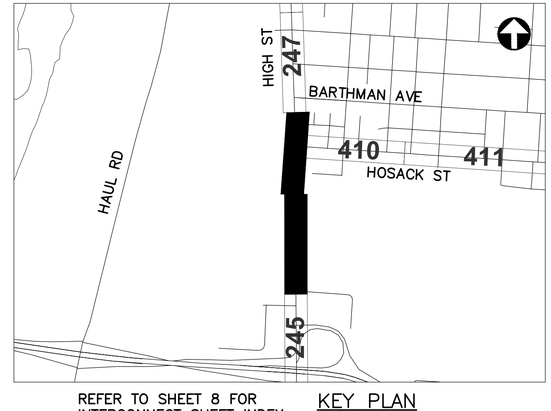
NOTES:

1. SEE SHEET 250 FOR QUANTITIES.
2. SEE SHEET 610 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

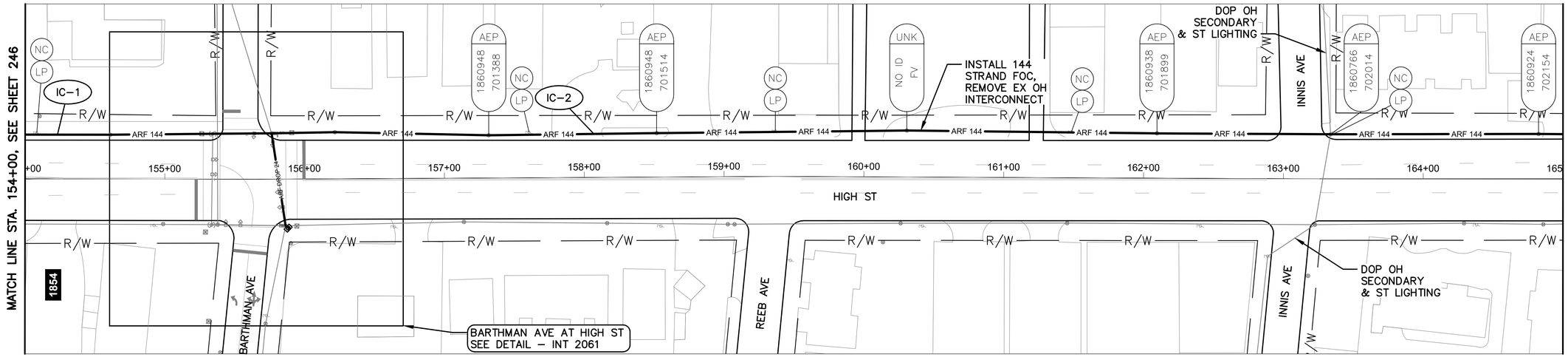
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PID NUMBER: 14522

INTERCONNECT PLAN
HIGH ST BETWEEN STA. 134+00 AND 154+00

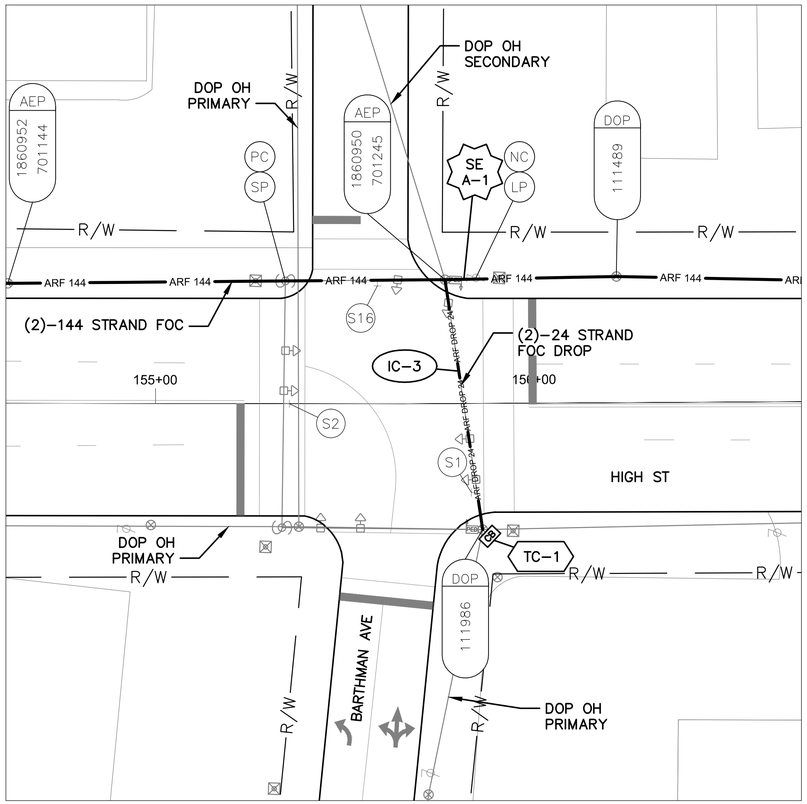
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

246
911

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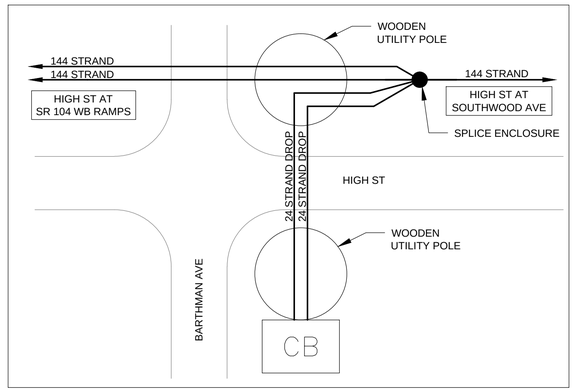
HIGH ST BETWEEN STATION 154+00 AND 165+00



DETAIL - INT 2061

0 20 40

HORIZONTAL SCALE IN FEET



CABLE SCHEMATIC
NOT TO SCALE

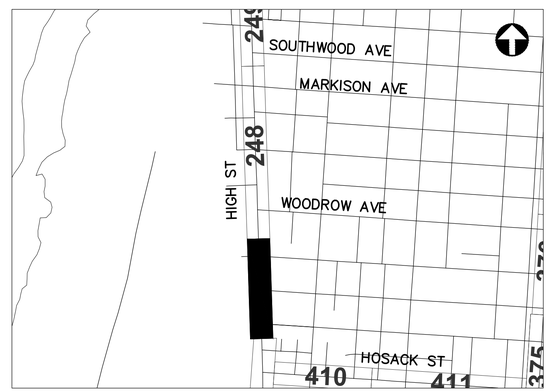
NOTES:

1. SEE SHEET 250 FOR QUANTITIES.
2. SEE SHEETS 610 & 807 FOR COMMUNICATION DETAILS.
3. FOR THE SPLICE ENCLOSURE AT INT 2061, PROVIDE 75' OF SLACK FROM ALL THREE DIRECTIONS FOR THE 225' TOTAL.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

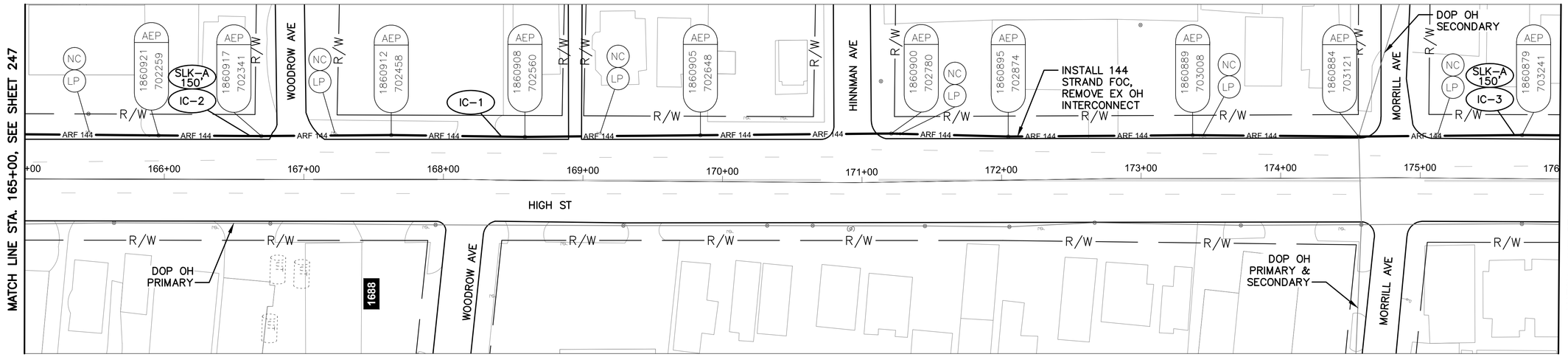
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PID NUMBER: 14522

INTERCONNECT PLAN
HIGH ST BETWEEN STA. 154+00 AND 165+00, INT 2061

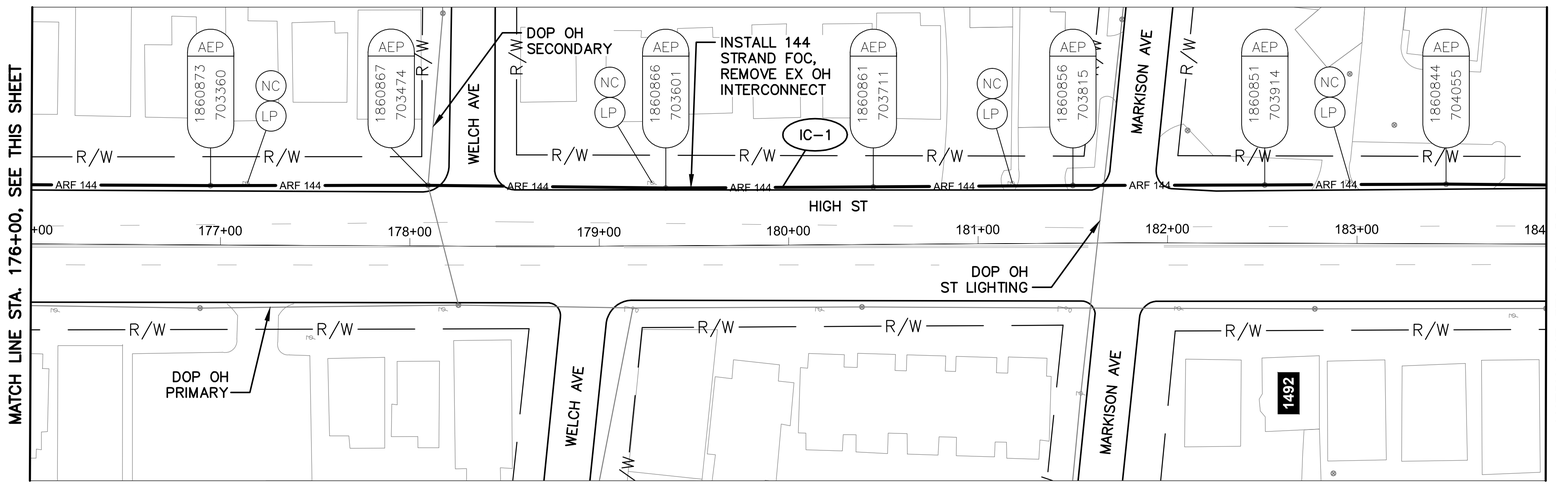
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

247
911

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HIGH ST BETWEEN STATION 165+00 AND 176+00



HIGH ST BETWEEN STATION 176+00 AND 184+00

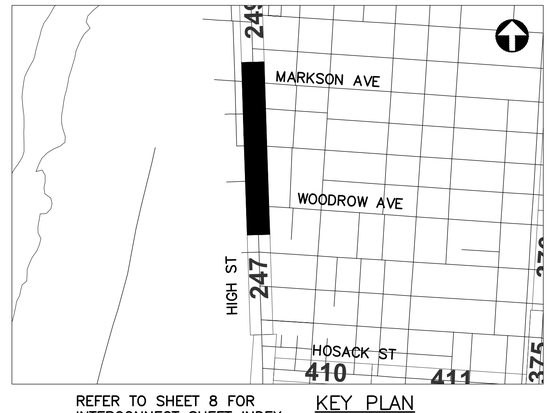
NOTES:

1. SEE SHEET 250 FOR QUANTITIES.
2. SEE SHEET 607 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100005
PID NUMBER: 14522

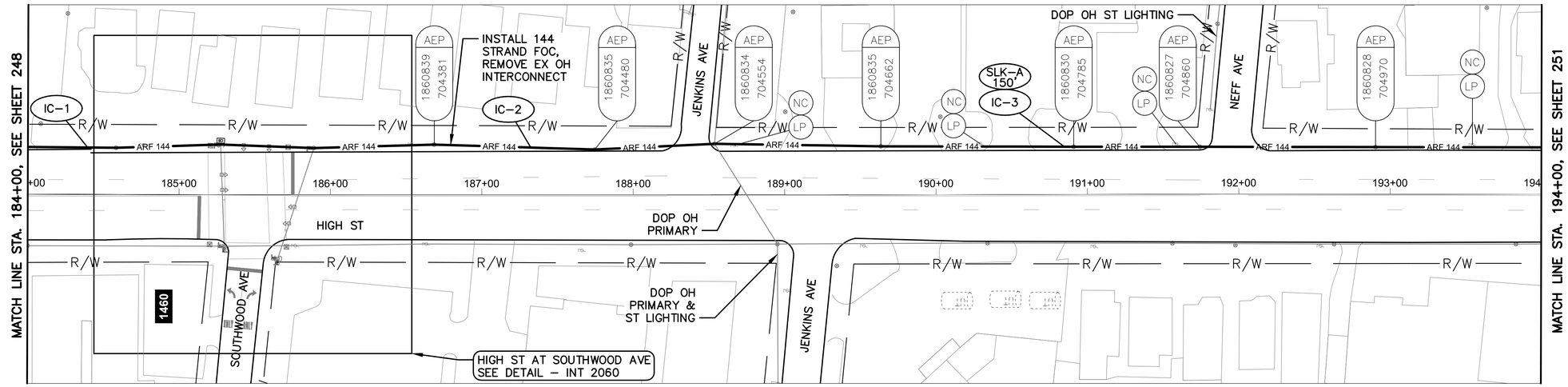
INTERCONNECT PLAN
HIGH ST BETWEEN STA. 165+00 AND 184+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

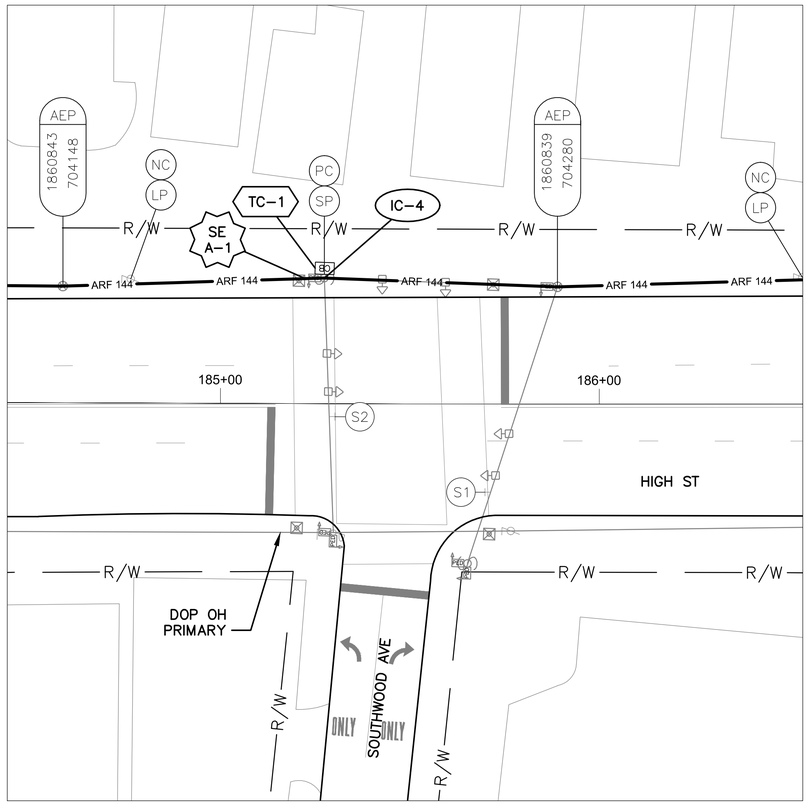
248
911

2953-E

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HIGH ST BETWEEN STATION 184+00 AND 194+00



DETAIL - INT 2060

0 20 40

HORIZONTAL SCALE IN FEET

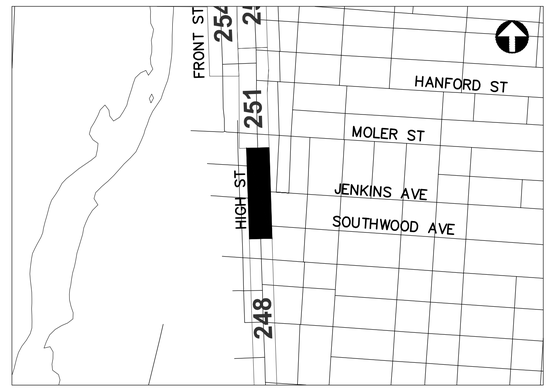
NOTES:

1. SEE SHEET 253 FOR QUANTITIES.
2. SEE SHEETS 607 & 808 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
HIGH ST BETWEEN STA. 184+00 AND 194+00, INT 2060

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

249
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	632	632	632	632	633	633	633	633					
					EXISTING CONDUIT CLEANED, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	SIGNALIZATION, MISC.: CAT 5E CABLE, OUTDOOR RATED	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN					
			FROM	TO	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH					
HIGH ST. BETWEEN STA. 112+00 AND 123+00, INT 2064																								
244	IC-5	HIGH ST	113+90, 39' LT	113+91, 43' LT	4				4															
244	IC-3	HIGH ST	113+90, 39' LT	114+85, 39' LT				95						96										
244	TC-1	HIGH ST	113+91, 43' LT													2	1		1					
244	IC-4	HIGH ST	113+91, 43' LT	114+85, 39' LT									1											
244	SE A-1	HIGH ST	114+85, 39' LT			225				1														
244	IC-1	HIGH ST	114+85, 39' LT	123+00, 58' LT		828		816						828										
244	IC-2	HIGH ST	119+60, 41' LT			150																		
HIGH ST. BETWEEN STA. 123+00 AND 134+00, INTS 2063 & 2062																								
245	IC-1	HIGH ST	123+00, 58' LT	123+91, 60' LT		90		89						90										
245	SE A-1	HIGH ST	123+91, 60' LT			150				1														
245	IC-2	HIGH ST	123+91, 60' LT	130+13, 42' LT		634		625						634										
245	IC-4	HIGH ST	123+91, 60' LT	124+55, 55' LT									1											
245	EC-2	HIGH ST	124+49, 49' RT	124+55, 49' LT										99	98									
245	EC-1	HIGH ST	124+49, 49' RT												45									
245	EC-3	HIGH ST	124+55, 49' LT												35									
245	TC-1	HIGH ST	124+55, 55' LT												10	2	1		1					
245	EC-4	HIGH ST	124+55, 55' LT	124+55, 49' LT	7				7						7									
245	TC-2	HIGH ST	130+05, 40' LT													2	1		1					
245	IC-5	HIGH ST	130+05, 40' LT	130+13, 42' LT	8				8			1												
245	SE A-2	HIGH ST	130+13, 42' LT			150	150			1														
245	IC-3	HIGH ST	130+13, 42' LT	134+00, 39' LT		393		387						393										
HIGH ST. BETWEEN STA. 134+00 AND 154+00																								
246	IC-1	HIGH ST	133+99, 39' LT	139+16, 43' LT		517		517						517										
246	IC-3	HIGH ST	139+15, 39' LT			100																		
246	IC-2	HIGH ST	139+16, 43' LT			35																		
246	IC-4	HIGH ST	139+16, 43' LT	150+03, 41' LT	1129	1129																		
246	R-1	HIGH ST	139+16, 43' LT	150+03, 41' LT				1090																
246	IC-6	HIGH ST	150+03, 41' LT			35																		
246	IC-7	HIGH ST	150+03, 41' LT	154+00, 32' LT		792		390						396										
246	IC-8	HIGH ST	150+03, 41' LT	150+34, 126' RT		180								180										
246	IC-5	HIGH ST	150+21, 33' LT			100																		
HIGH ST. BETWEEN STA. 154+00 AND 165+00, INT 2061																								
247	IC-1	HIGH ST	154+00, 32' LT	155+76, 33' LT		358		176						179										
247	SE A-1	HIGH ST	155+76, 33' LT			225					1													
247	IC-2	HIGH ST	155+76, 33' LT	165+00, 32' LT		938		924						938										
247	IC-3	HIGH ST	155+76, 33' LT	155+86, 33' RT				67					2	68										
247	TC-1	HIGH ST	155+86, 33' RT													2	1		1					
HIGH ST. BETWEEN STA. 165+00 AND 184+00																								
248	IC-1	HIGH ST	165+00, 32' LT	184+00, 31' LT		1929		1900						1929										
248	IC-2	HIGH ST	166+63, 31' LT			150																		
248	IC-3	HIGH ST	175+67, 31' LT			150																		
HIGH ST. BETWEEN STA. 184+00 AND 194+00, INT 2060																								
249	IC-1	HIGH ST	184+00, 31' LT	185+27, 33' LT		129		127						129										
249	SE A-1	HIGH ST	185+27, 33' LT			150				1														
249	IC-4	HIGH ST	185+27, 33' LT	185+27, 33' LT								1												
249	TC-1	HIGH ST	185+27, 33' LT													2	1	1						
249	IC-2	HIGH ST	185+27, 33' LT	194+00, 31' LT		886		873						886										
249	IC-3	HIGH ST	190+84, 32' LT			150																		
SHEET TOTAL					1148	10573	150	8076	19	4	1	2	4	7362	195	10	5	1	4	-	-	-	-	-

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

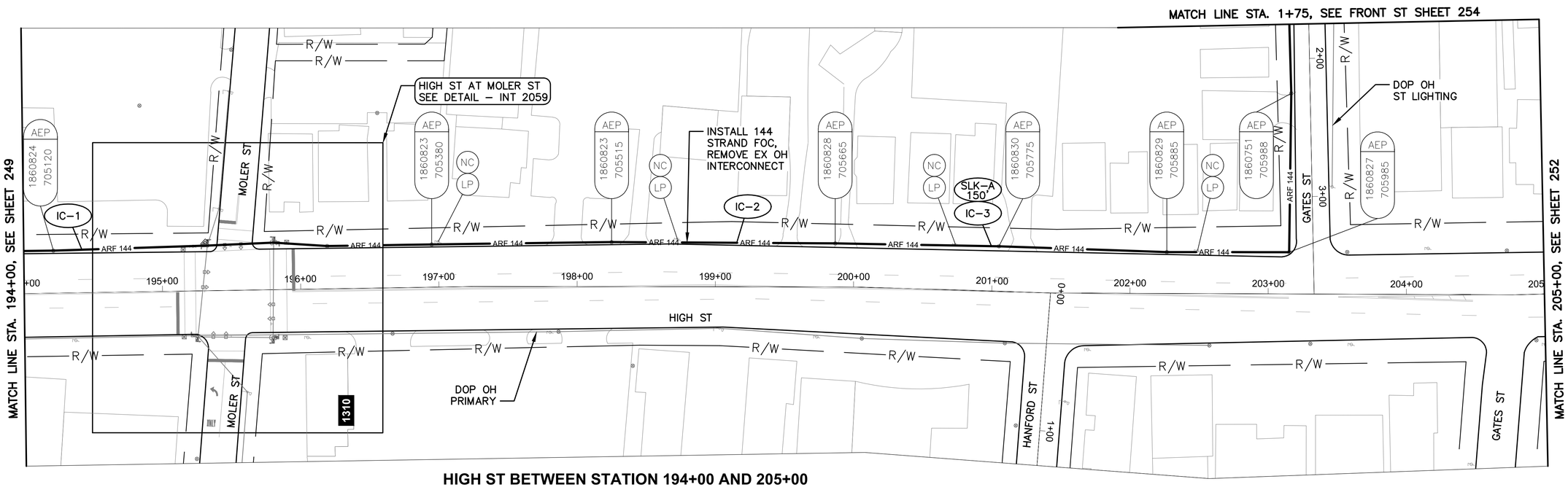
CIP: 540007–100005
PID NUMBER: 14522

HIGH ST. BTW STA. 112+00 AND 194+00
INTS 2064, 2063, 2062, 2061, 2060

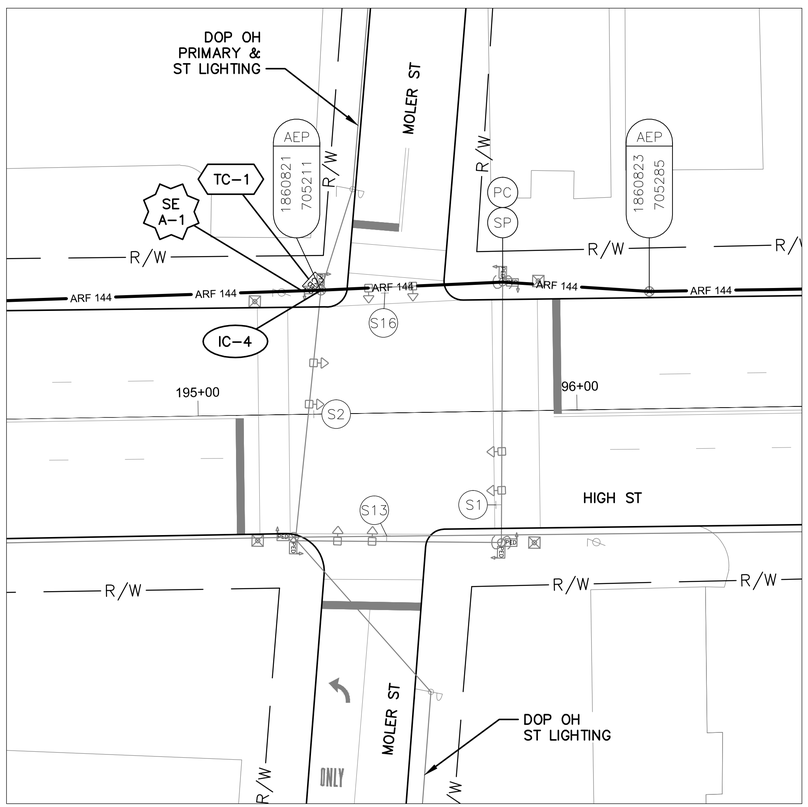
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c – CONSTRUCTION AS–BUILT

250
911

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HIGH ST BETWEEN STATION 194+00 AND 205+00



DETAIL - INT 2059

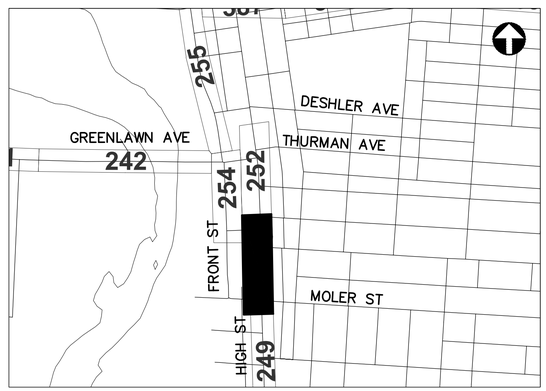
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 253 FOR QUANTITIES.
2. SEE SHEETS 607 & 809 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

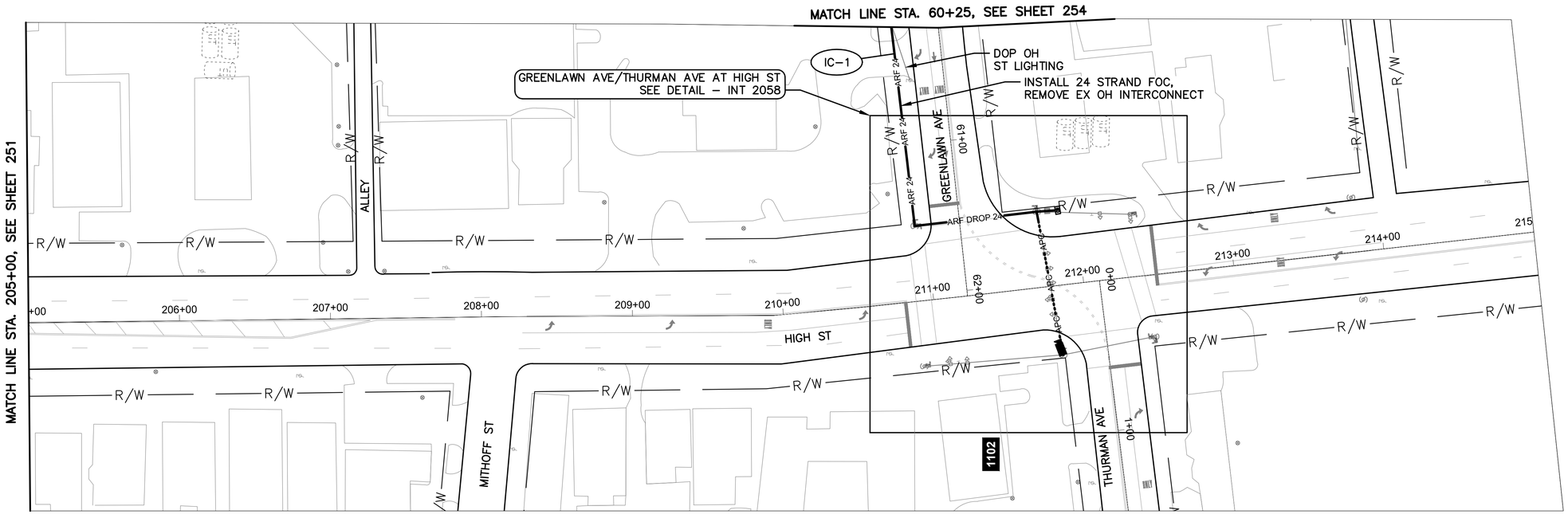
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
HIGH ST BETWEEN STA. 194+00 AND 205+00, INT 2059

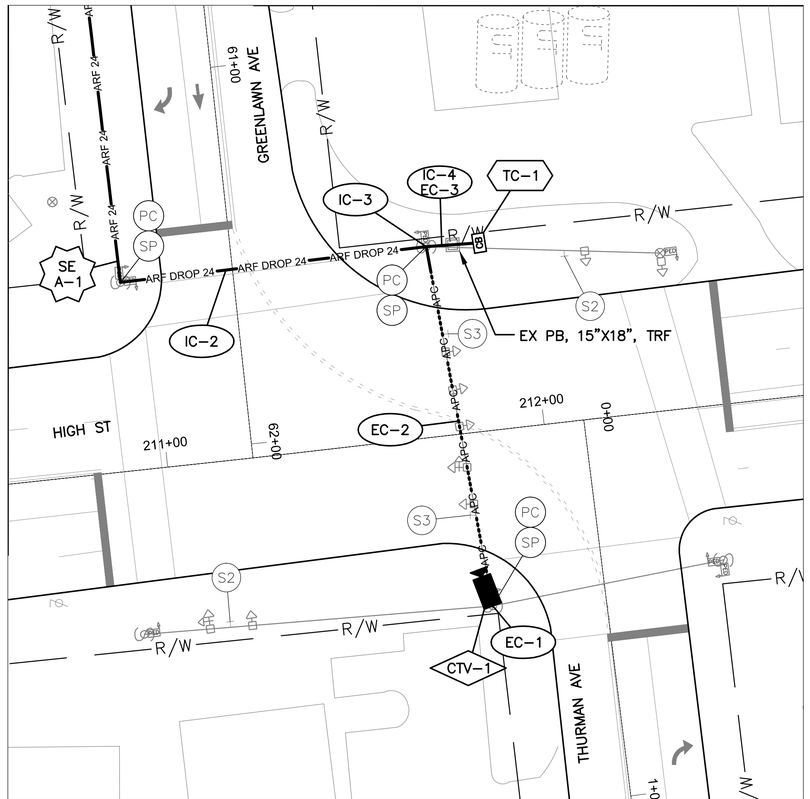
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

251
911

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HIGH ST BETWEEN STATION 205+00 AND 215+00



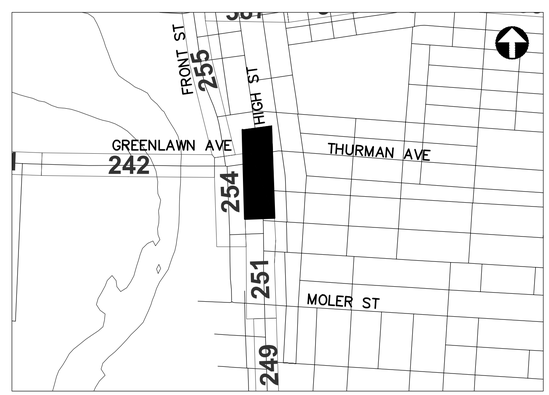
DETAIL - INT 2058

0 20 40

HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 253 FOR QUANTITIES.
2. SEE SHEETS 607 & 729 FOR COMMUNICATION DETAILS.



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
HIGH ST BETWEEN STA. 205+00 AND 215+00, INT 2058

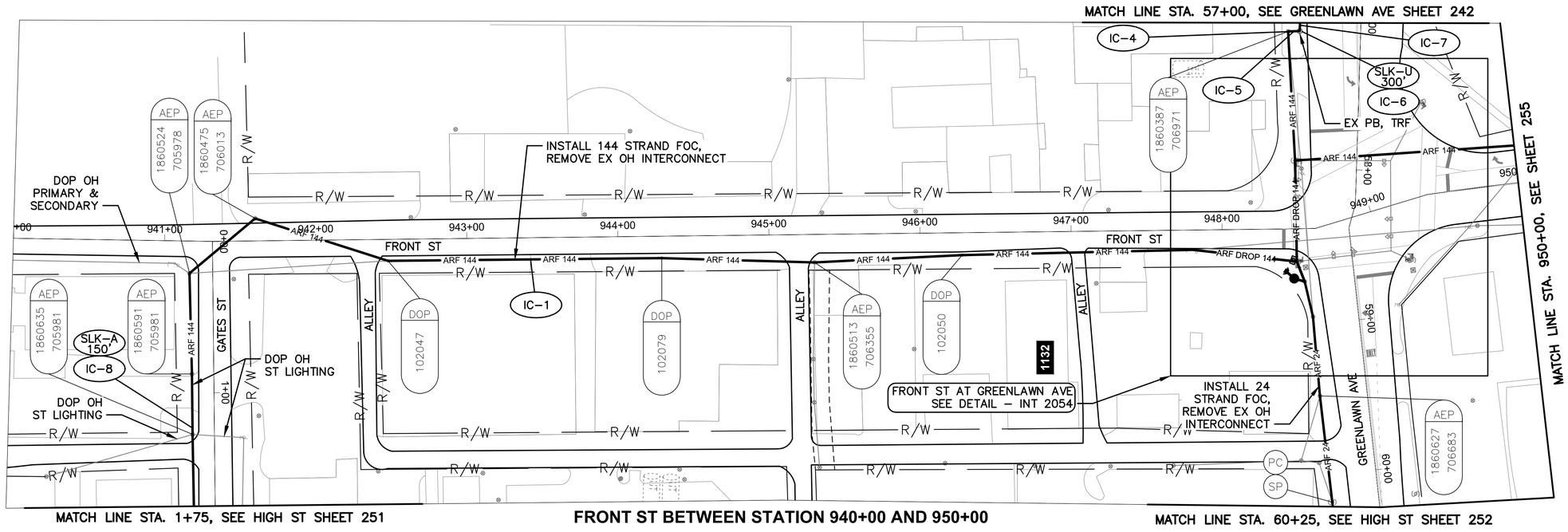
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

252
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	632 SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	632 SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	633 CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN							
			FROM	TO	FT	FT	FT	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH							
HIGH ST. BETWEEN STA. 194+00 AND 205+00, INT 2059																									
251	IC-1	HIGH ST	194+00, 31' LT	195+32, 33' LT	135		133				135														
251	SE A-1	HIGH ST	195+32, 33' LT		150			1																	
251	IC-4	HIGH ST	195+32, 33' LT	195+32, 33' LT					1																
251	TC-1	HIGH ST	195+32, 33' LT											2	1	1									
251	IC-2	HIGH ST	195+32, 33' LT	203+14, 195' LT	962		948				962														
251	IC-3	HIGH ST	200+98, 33' LT		150																				
HIGH ST. BETWEEN STA. 205+00 AND 215+00, INT 2058																									
252	IC-1	HIGH ST	210+85, 36' LT	210+91, 183' LT		148	146				148														
252	IC-2	HIGH ST	210+85, 36' LT	211+66, 40' LT			80			1	81														
252	CTV-1	HIGH ST	211+39, 35' RT										1												
252	EC-1	HIGH ST	211+39, 36' RT	211+66, 40' LT							81	81													
252	EC-2	HIGH ST	211+39, 36' RT									10													
252	SE A-1	HIGH ST	211+66, 40' LT			75		1																	
252	TC-1	HIGH ST	211+66, 40' LT									45		2	1		1								



FRONT ST BETWEEN STATION 940+00 AND 950+00

DETAIL - INT 2054

0 20 40

HORIZONTAL SCALE IN FEET

CABLE SCHEMATIC
NOT TO SCALE

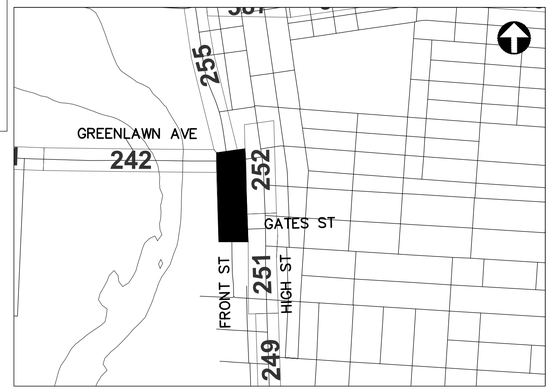
NOTES:

1. SEE SHEET 258 FOR QUANTITIES.
2. SEE SHEETS 607 & 726 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

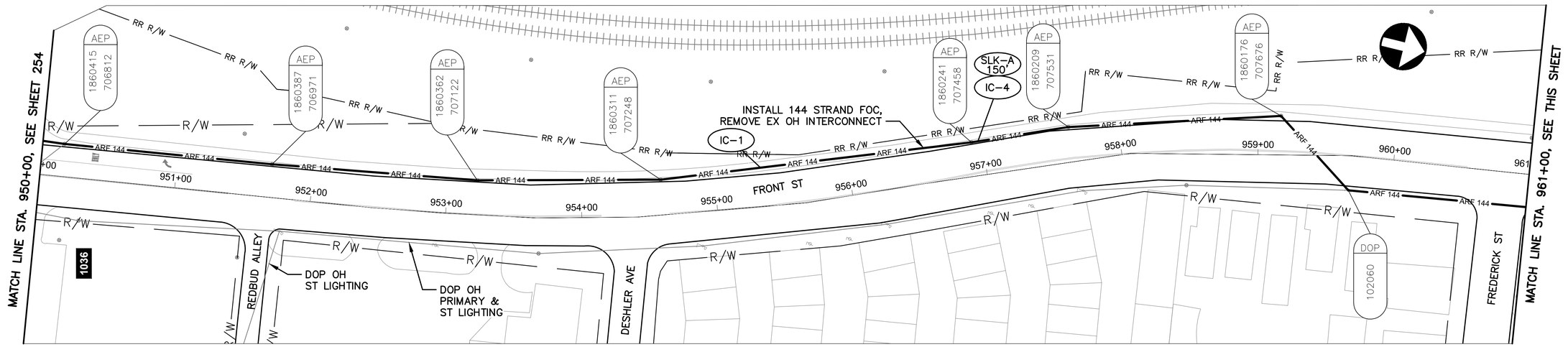
INTERCONNECT PLAN
FRONT ST BETWEEN STA. 940+00 AND 950+00, INT 2054

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

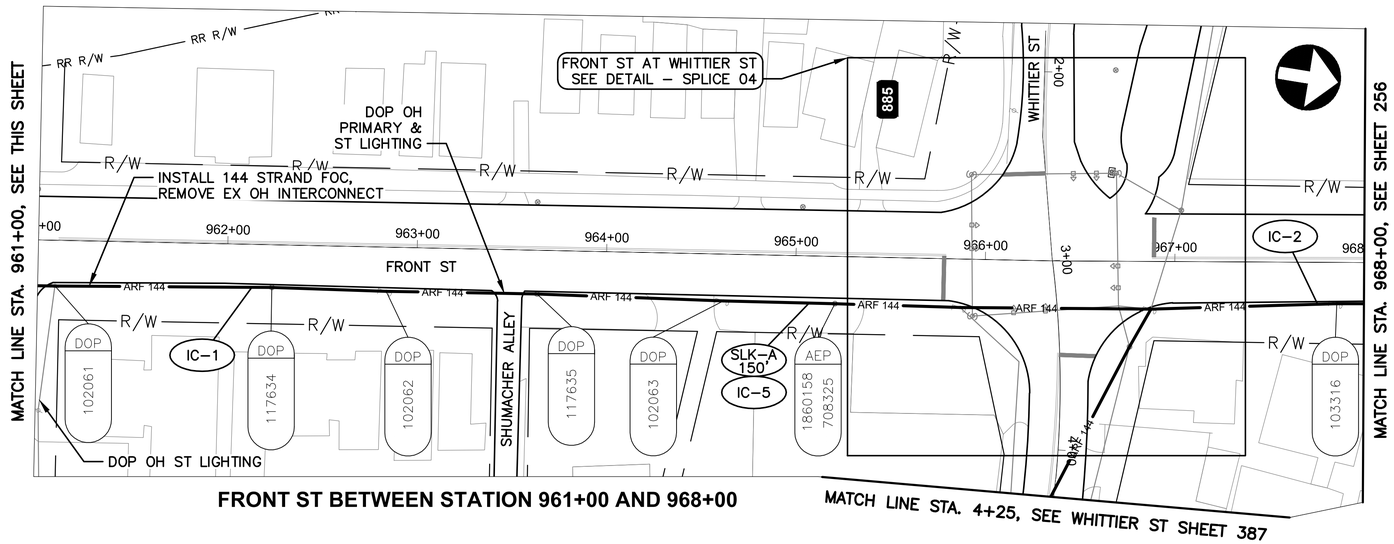
254
911

2953-E

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FRONT ST BETWEEN STATION 950+00 AND 961+00



FRONT ST BETWEEN STATION 961+00 AND 968+00

DETAIL - SPLICE 04

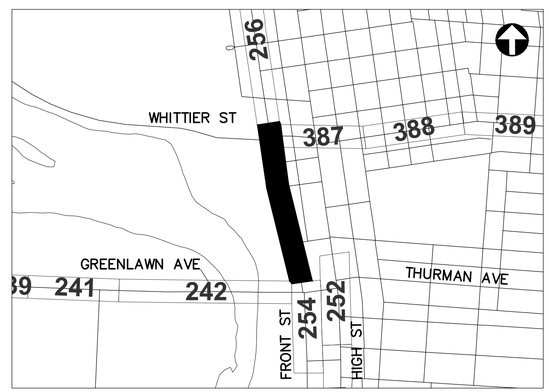
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 258 FOR QUANTITIES.
2. SEE SHEETS 607 & 730 FOR COMMUNICATION DETAILS.
3. FOR THE SPLICE ENCLOSURE AT INT 2053, PROVIDE 75' OF SLACK FROM ALL THREE DIRECTIONS FOR THE 225' TOTAL.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

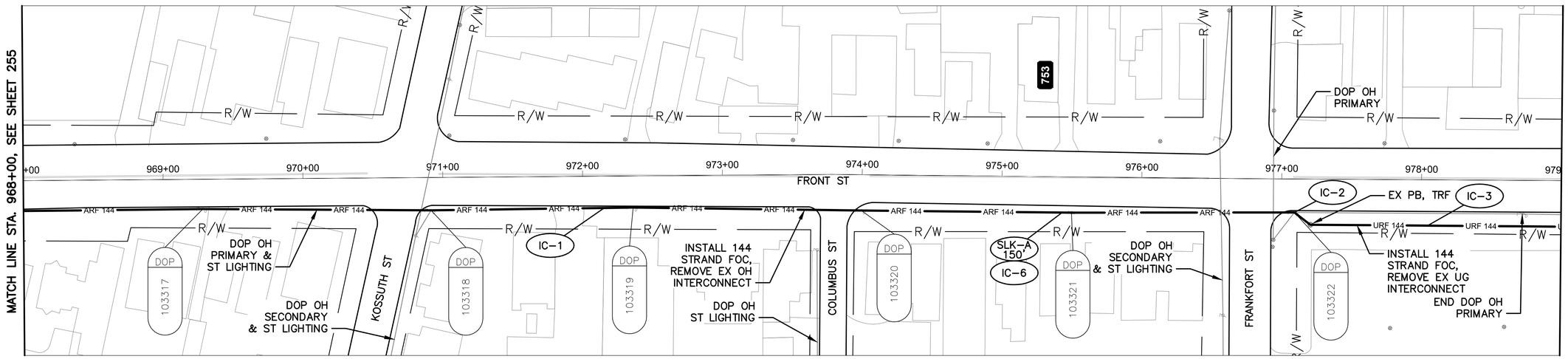
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PID NUMBER: 14522

INTERCONNECT PLAN
FRONT ST BETWEEN STA. 950+00 AND 968+00, SPLICE 04

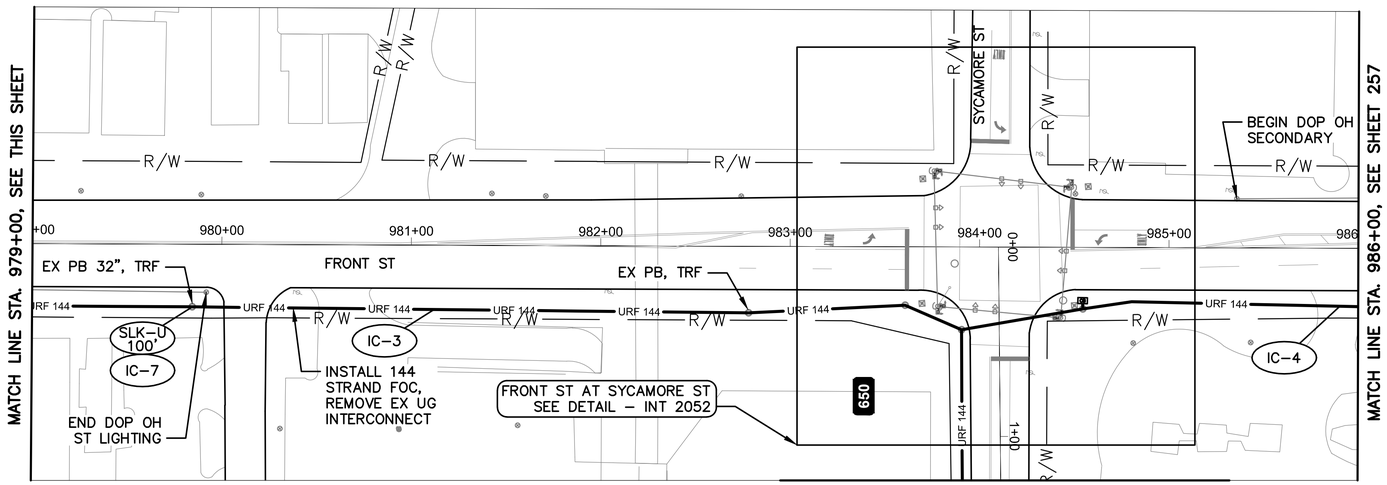
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c – CONSTRUCTION AS-BUILT

255
911

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FRONT ST BETWEEN STATION 968+00 AND 979+00



FRONT ST BETWEEN STATION 979+00 AND 986+00

MATCH LINE STA. 1+25, SEE SYCAMORE ST SHEET 261

DETAIL - INT 2052

0 20 40

HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 258 FOR QUANTITIES.
2. SEE SHEETS 608 & 731 FOR COMMUNICATION DETAILS.
3. FOR THE SPLICE ENCLOSURE AT INT 2052, PROVIDE 75' OF SLACK FROM ALL THREE DIRECTIONS FOR THE 225' TOTAL.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

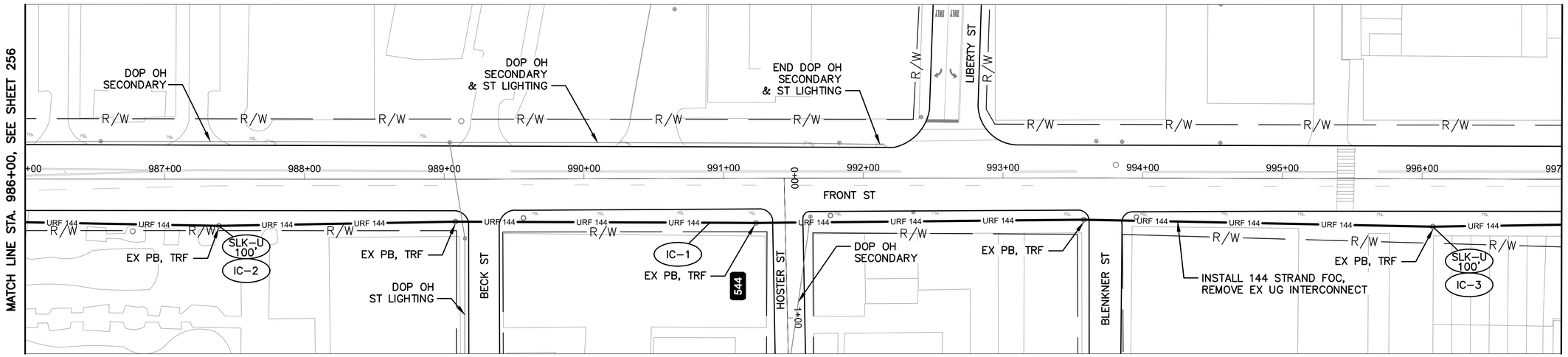
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PID NUMBER: 14522

INTERCONNECT PLAN
FRONT ST BETWEEN STA. 968+00 AND 986+00, INT 2052

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

256
911

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FRONT ST BETWEEN STATION 986+00 AND 997+00

NOTES:

1. SEE SHEET 258 FOR QUANTITIES.
2. SEE SHEET 608 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
FRONT ST BETWEEN STA. 986+00 AND 997+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

257
911

2953-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	632	632	632	632	632	632	632	632	632	633	633	633	633		
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN	PULL BOX, 48", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT RISER, 3", 725.04, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 144 STRAND, PRE-TERMINATED	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	CABINET, TYPE 334, AS PER PLAN	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN		
			FROM	TO	FT	FT	EACH	FT	EACH	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH		
FRONT ST. BETWEEN STA. 940+00 AND 950+00, INT 2054																									
254	IC-8	FRONT ST	941+20, 124' RT							150															
254	IC-1	FRONT ST	941+22, 176' RT	947+80, 13' RT						849			836						849						
254	SE A-1	FRONT ST	947+80, 13' RT							75		150					1								
254	IC-11	FRONT ST	947+80, 13' RT	948+49, 22' RT							70	140	70						70						
254	IC-16	FRONT ST	948+42, 28' RT									40								1					
254	IC-15	FRONT ST	948+42, 28' RT	948+54, 35' RT		14	1	14				56													
254	TC-1	FRONT ST	948+49, 22' RT																		4	1	1		
254	IC-13	FRONT ST	948+49, 22' RT	948+54, 35' RT								56													
254	IC-12	FRONT ST	948+49, 22' RT	948+61, 185' RT							167		165						167						
254	SE A-2	FRONT ST	948+49, 45' LT							150		150					1								
254	IC-2	FRONT ST	948+49, 45' LT	948+82, 130' LT						87			86						87						
254	IC-3	FRONT ST	948+49, 45' LT	949+99, 25' LT						147			145						147						
254	IC-9	FRONT ST	948+49, 45' RT	948+49, 22' RT								136	67						68						
254	IC-10	FRONT ST	948+49, 45' RT	948+49, 22' RT														1							
254	IC-14	FRONT ST	948+54, 35' RT									140													
254	IC-4	FRONT ST	948+82, 130' LT						2	35															
254	IC-5	FRONT ST	948+82, 130' LT	948+89, 128' LT	8					8															
254	IC-6	FRONT ST	948+89, 128' LT							100															
254	IC-7	FRONT ST	948+89, 128' LT	948+92, 137' LT						9															
FRONT ST. BETWEEN STA. 950+00 AND 968+00, INT SPLICE-04																									
255	IC-1	FRONT ST	950+00, 25' LT	966+87, 25' RT						1733			1707						1733						
255	IC-4	FRONT ST	950+96, 25' LT							150															
255	IC-5	FRONT ST	965+80, 25' RT							150															
255	IC-3	FRONT ST	966+35, 125' RT	966+87, 25' RT						114			112						114						
255	SE A-1	FRONT ST	966+87, 25' RT							225							1								
255	IC-2	FRONT ST	966+87, 25' RT	968+00, 22' RT						115			113						115						
FRONT ST. BETWEEN STA. 968+00 AND 986+00, INT 2052																									
256	IC-1	FRONT ST	968+00, 22' RT	977+09, 24' RT						923			909						923						
256	IC-6	FRONT ST	975+43, 26' RT							150															
256	IC-2	FRONT ST	977+09, 24' RT							35															
256	IC-3	FRONT ST	977+09, 24' RT	983+90, 44' RT	687					687				687											
256	IC-7	FRONT ST	979+84, 33' RT							100															
256	SE U-1	FRONT ST	983+90, 44' RT							225							1								
256	IC-5	FRONT ST	983+90, 44' RT	983+91, 125' RT	82					82				82											
256	IC-4	FRONT ST	983+90, 44' RT	986+00, 31' RT	211					211				211											
256	IC-8	FRONT ST	983+90, 44' RT	984+54, 28' RT														2							
256	IC-9	FRONT ST	984+54, 33' RT	984+54, 28' RT	4									4											
256	TC-1	FRONT ST	984+54, 28' RT																		3	1	1		
FRONT ST. BETWEEN STA. 986+00 AND 997+00																									
257	IC-1	FRONT ST	986+00, 31' RT	997+00, 33' RT	1100					1100				1100											
257	IC-2	FRONT ST	987+38, 33' RT							100															
257	IC-3	FRONT ST	996+07, 34' RT							100															
SHEET TOTAL					2092	14	1	14	2	7810	237	868	4210	2084	1	3	3	4273	1	7	2	2	-	-	

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

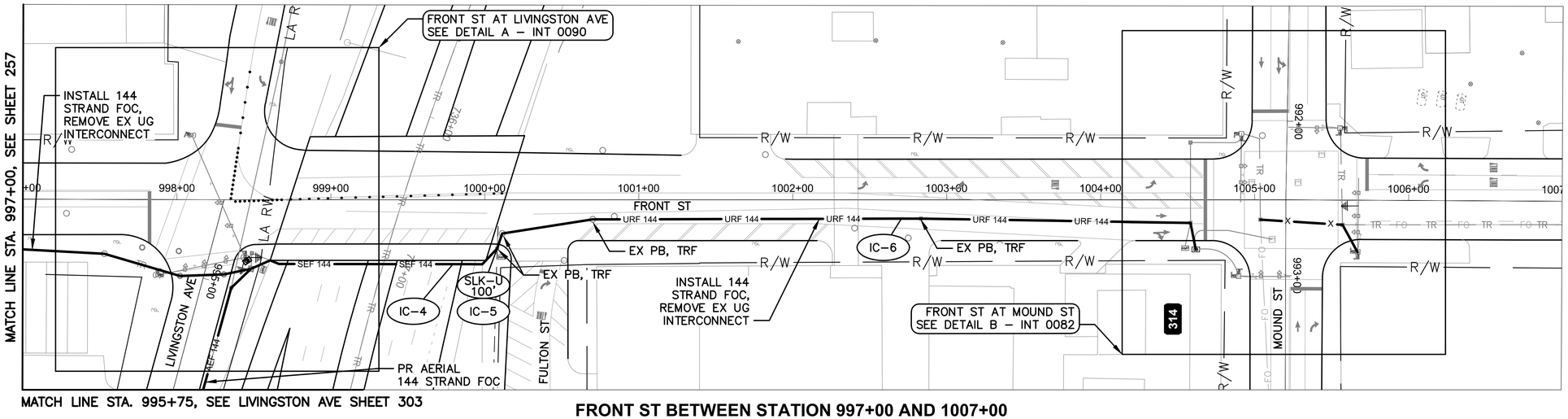
CIP: 540007–100005
PID NUMBER: 14522

FRONT ST. BTW STA. 940+00 & 997+00
INTS 2054, 2052

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

258
911

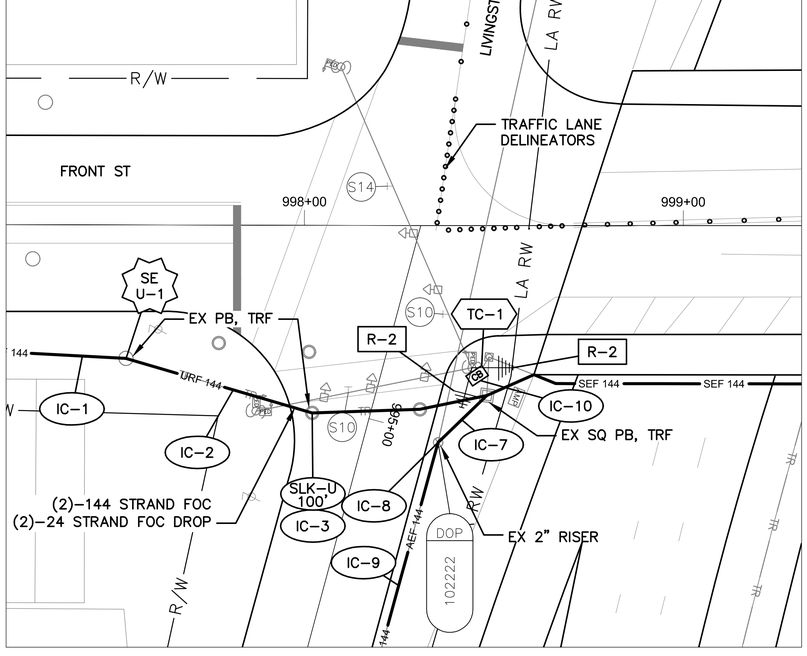
J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_FRONT_A_INTERCONNECT_QUANTITIES.dwg ~ FRONT_1 layout ~ last saved by: gburch 08/27/2014 09:04am ~ printed 05/08/2017 09:13am



FRONT ST BETWEEN STATION 997+00 AND 1007+00

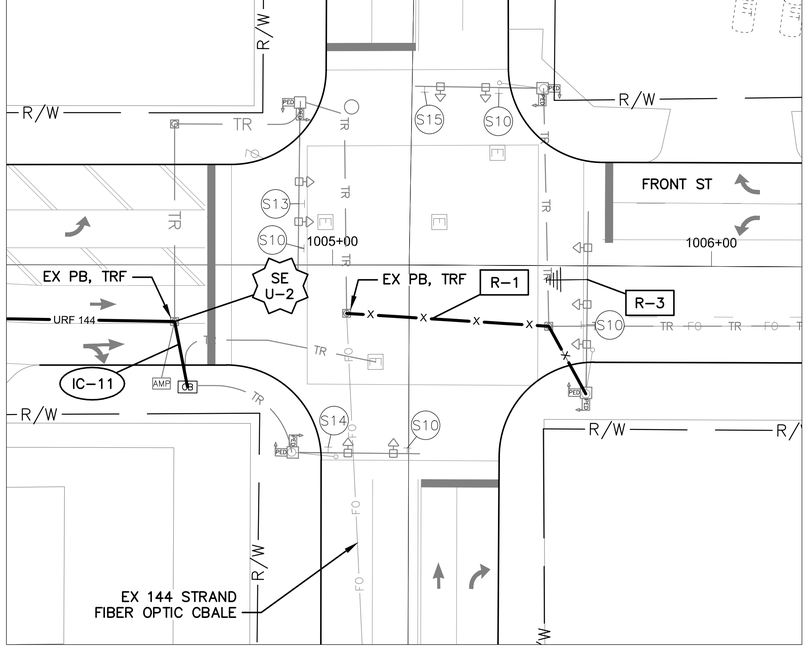
NOTES:

1. SEE SHEET 262 FOR QUANTITIES.
2. SEE SHEETS 608, 732 & 733 FOR COMMUNICATION DETAILS.
3. FROM FULTON ST. TO MOUND ST, USE ORANGE INNERDUCT. REMOVE 24 STRAND FOC AND REPLACE WITH 144 STRAND FOC
4. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.
5. FOR THE SPLICE ENCLOSURE AT INT 0090, PROVIDE 75' OF SLACK FROM ALL THREE DIRECTIONS FOR THE 225' TOTAL.



DETAIL A - INT 0090

0 20 40
HORIZONTAL SCALE IN FEET

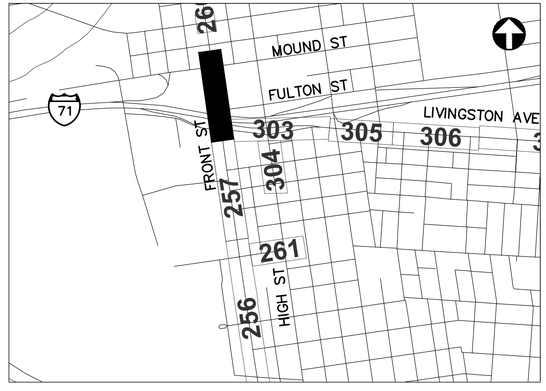


DETAIL B - INT 0082

0 20 40
HORIZONTAL SCALE IN FEET

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

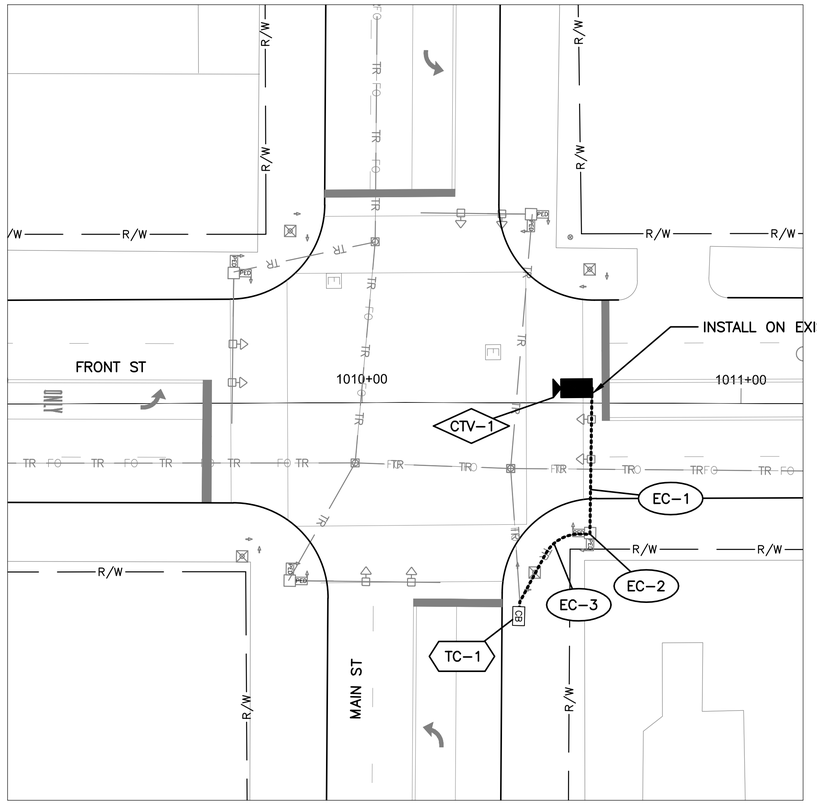
INTERCONNECT PLAN
FRONT ST BETWEEN STA. 997+00 AND 1007+00, INTS 0090 & 0082

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

259
911

2953-E

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DETAIL - INT 0074

0 20 40

HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 262 FOR QUANTITIES.
2. SEE SHEETS 606 & 734 FOR COMMUNICATION DETAILS.



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING

2953-E

0 20 40
HORIZONTAL SCALE IN FEET

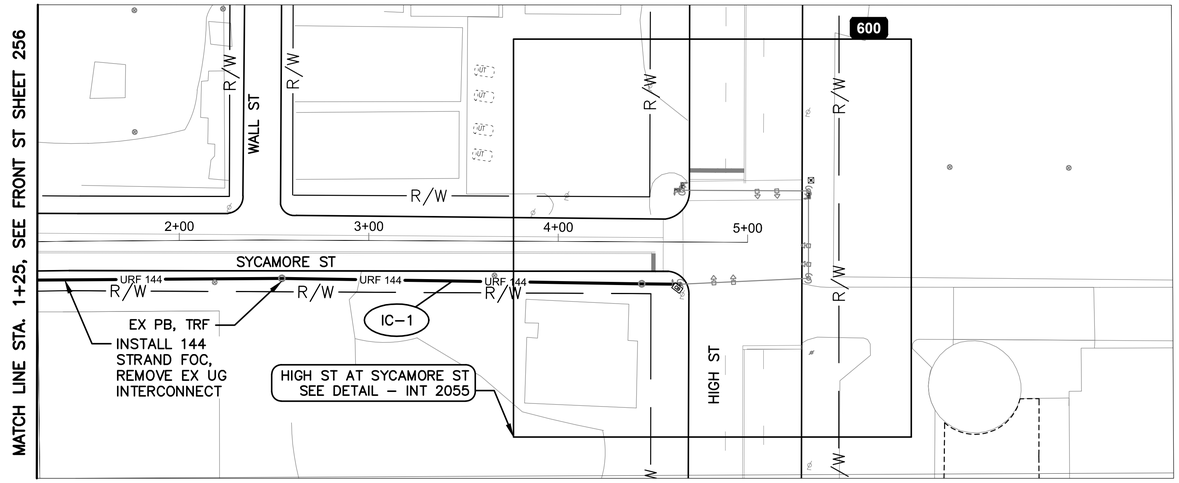
CIP: 540007-100005
PID NUMBER: 14522

INTERSECTION PLAN
FRONT ST AT MAIN ST INT 0074

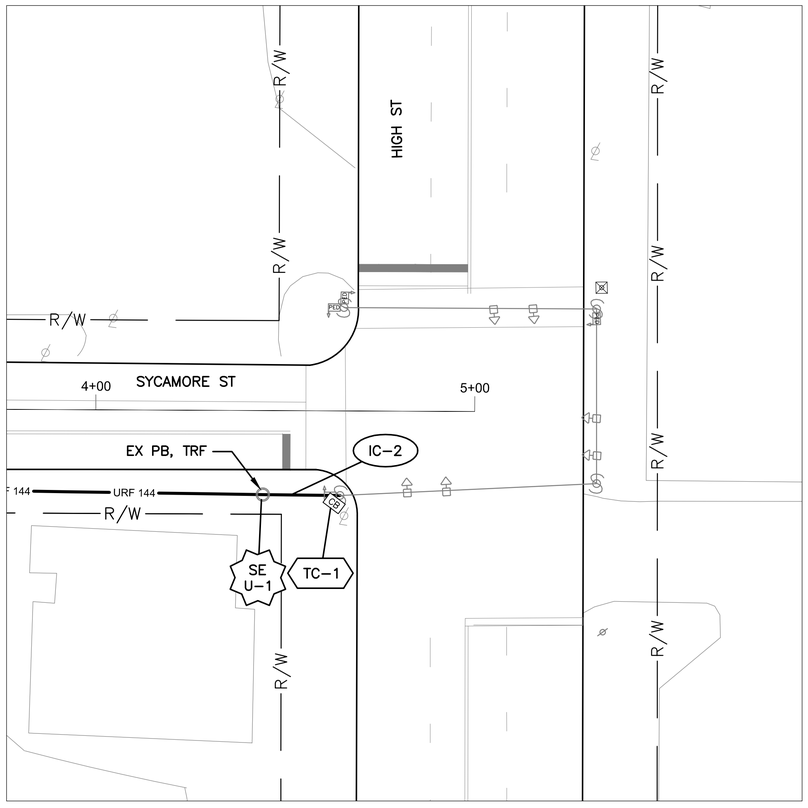
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

260
911

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SYCAMORE ST BETWEEN STATION 1+25 AND 5+00



DETAIL - INT 2055

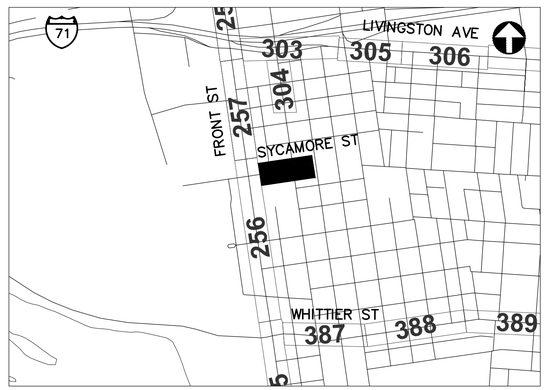
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 262 FOR QUANTITIES.
2. SEE SHEETS 608 & 736 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
SYCAMORE ST BETWEEN STA. 1+25 AND 5+00, INT 2055

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

261
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	202	632	632	632	632	632	632	632	632	633	633	633						
					EXISTING CONDUIT CLEANED, AS PER PLAN	REMOVAL, MISC.: REMOVE EXISTING OVERHEAD EQUIPMENT	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 144 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER						
			FROM	TO	FT	EACH	FT	FT	FT	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH						
FRONT ST. BETWEEN STA. 997+00 AND 1007+00, INTS 0090 & 0082																							
259	IC-1	FRONT ST	997+00, 33' RT	997+52, 35' RT	53		53		53														
259	SE U-1	FRONT ST	997+52, 35' RT				225				1												
259	IC-10	FRONT ST	997+52, 35' RT	998+44, 38' RT									1										
259	IC-2	FRONT ST	997+52, 35' RT	998+48, 45' RT	98		196		98														
259	IC-9	FRONT ST	998+16, 125' RT	998+35, 57' RT			70	70															
259	IC-8	FRONT ST	998+35, 57' RT				35																
259	IC-7	FRONT ST	998+35, 57' RT	998+48, 45' RT	18		18																
259	R-2	FRONT ST	998+44, 38' RT			2																	
259	TC-1	FRONT ST	998+44, 38' RT														5	1					
259	IC-3	FRONT ST	998+48, 45' RT				100																
259	IC-4	FRONT ST	998+48, 35' RT	1000+08, 32' RT			165																
259	IC-5	FRONT ST	1000+08, 32' RT				100																
259	IC-6	FRONT ST	1000+08, 32' RT	1004+58, 15' RT	458		458		458														
259	SE U-2	FRONT ST	1004+58, 15' RT				75				1												
259	IC-11	FRONT ST	1004+58, 15' RT	1004+61, 32' RT	18							1											
259	R-1	FRONT ST	1005+03, 13' RT	1005+67, 34' RT					74														
259	R-3	FRONT ST	1005+67, 04' RT			1																	
FRONT ST. AT MAIN ST., INT 0074																							
260	TC-1	FRONT ST	1010+42, 56' RT											10									
260	EC-3	FRONT ST	1010+42, 56' RT	1010+60, 35' RT	32									32									
260	EC-2	FRONT ST	1010+60, 35' RT											35									
260	EC-1	FRONT ST	1010+60, 35' RT	1010+61, 4' LT										39									
260	CTV-1	FRONT ST	1010+61, 4' LT												1								
SYCAMORE ST. BETWEEN STA. 1+25 AND 5+00, INT 2055																							
261	IC-1	SYCAMORE ST	1+25, 20' RT	4+44, 22' RT	319		319		319														
261	SE U-1	SYCAMORE ST	4+44, 22' RT				75			1													
261	IC-2	SYCAMORE ST	4+44, 22' RT	4+64, 22' RT	20				20			1											
261	TC-1	SYCAMORE ST	4+64, 22' RT														1	1	1				
		SHEET TOTAL			1016	3	1889	70	1022	1	2	2	1	116	1	6	2	1	-	-	-	-	-	-

QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

2953-E

CIP: 540007-100005
PID NUMBER: 14522

FRONT ST. BTW STA. 997+00 & 1007+00, INTS 0090, 0082, 0074
SYCAMORE ST. BTW STA. 1+25 & 5+00, INT 2055

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

262
911

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